Beavercreek Township

Fire Station No. 65

1777 Trebein Road, Beavercreek Township, Ohio 45385

ARCHITECT

App Architecture

615 Woodside Drive
Englewood, Ohio 45322
(937) 836-8898

STRUCTURAL ENGINEER

Jezerinac Geers & Associates

5640 Frantz Road
Dublin, Ohio 43017
(614) 766-0066

PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS

Nauman & Zelinski, LLC

204 South Ludlow Street, Suite 400
Dayton, Ohio 45402
(937) 223-3821

CIVIL ENGINEER

Choice One Engineering

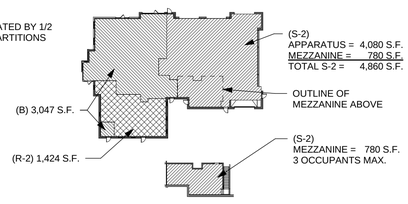
440 E. Hoewisher Road
Sidney, Ohio 45365
(937) 497-0200

LANDSCAPE ARCHITECT

Yellow Springs Design, LLC

830 Xenia Avenue
Yellow Springs, Ohio 45387
(937) 767-8199

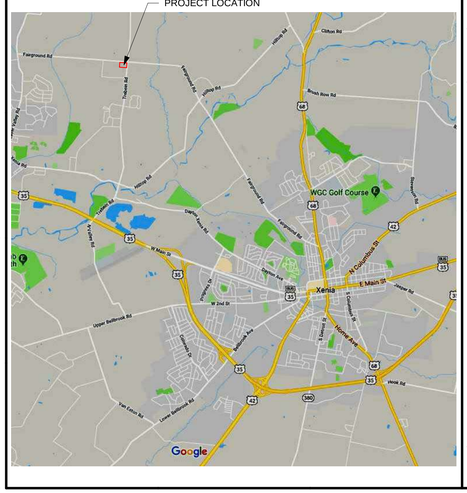
NOTE:
R-2 USE SEPARATED BY 1/2 HOUR RATED PARTITIONS



D3 USE GROUP PLANS
1" = 50'-0"

DRAWING INDEX

VICINITY MAP



CODE INFORMATION

(Ohio Building Code 2017)

PROJECT DESCRIPTION:

PROJECT CONSISTS OF CONSTRUCTION OF A NEW FIRE STATION.

BUILDING DESCRIPTION:

FIRE STATION: 1 STORY + MEZZANINE

BUILDING IS CONSTRUCTED OF LIMITED COMBUSTIBLE AND NON-COMBUSTIBLE MATERIALS: FIRE-RETARDANT WOOD ROOF TRUSSES, STEEL FRAMING AND STEEL JOIST SYSTEM WITH METAL DECK, AND CONCRETE SLAB. LOAD BEARING EXTERIOR MASONRY WALL AT APPARATUS BAYS; LOAD BEARING AND NON-LOAD BEARING COLD-FORMED METAL FRAMING WITH BRICK VENEER EXTERIOR WALLS FOR SUPPORT AREAS.

USE GROUP CLASSIFICATION:(REFER TO USE GROUP PLAN THIS SHEET)

OBC (302) USE GROUP= B: STATION OFFICES
R-2: CREW QUARTERS
S-2: APPARATUS BAYS AND MEZZANINE

0BC (508.3) MIXED OCCUPANCIES=
UNSEPARATED MIXED USE
EXCEPTION 2: R-2 DWELLING AND SLEEPING UNITS SHALL BE SEPARATED FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 420.

0BC (708.3) FIRE RESISTANCE RATING=
EXCEPTION 2: DWELLING UNIT AND SLEEPING UNIT SEPARATIONS IN BUILDINGS OF TYPE IIB, IIIB, AND VB CONSTRUCTION SHALL HAVE FIRE-RESISTANT RATINGS OF NOT LESS THAN 1/2-HOUR IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM.

SLEEPING UNITS TO HAVE 20 MIN. RATED DOORS AND FRAMES IN ACCORDANCE WITH OBC TABLE 716.5.

CONSTRUCTION TYPE CLASSIFICATION:

OBC (602) CONSTRUCTION TYPE= II B

OCCUPANT LOAD

OBC (1004) ALLOWABLE= 100 S.F. PER OCCUPANT

FIRE STATION
B: 3,047 S.F. / 100 = 31
S-2: 4,860 S.F. / 300 = 17
R-2: 1,424 S.F. / 200 = 8

TOTAL = 56 OCCUPANTS

DESIGN OCCUPANT LOAD=
B: 7
S-2: 0
R-2: 6

TOTAL = 13 OCCUPANTS

FIRE PROTECTION

BUILDING DESCRIPTION= FULLY SUPPRESSED

CONCEALED SPACES EXCEPTION FOR ATTIC SPACE PER NFPA 13 - 8.15.1.2 "CONCEALED SPACES NOT REQUIRING SPRINKLER PROTECTION" AND 8.15.2.1.2.1

HEIGHT AND AREA LIMITATIONS

OBC (503) BUILDING AREA & HEIGHT

ALLOWABLE = 68,480 S.F.

NEW CONSTRUCTION
FIRST FLOOR: 8,551 S.F.
MEZZANINE: 780 S.F.
TOTAL = 9,331 S.F.

ALLOWABLE HEIGHT = 60'-0" FT. (4 STORY)
ACTUAL HEIGHT = 33'-9" FT. (1 STORY)

USE GROUP	TABLE 506.2 AREA	TOTAL ALLOWABLE
B	92,000 S.F.	R-2 IS THE MOST RESTRICTIVE
R-2	64,000 S.F.	USE GROUP AT 64,000 S.F.
S-2	104,500 S.F.	ALLOWABLE

PLUMBING FIXTURES REQUIRED

USE GROUP	WC	LAVS	SHOWERS	D.F.	SERVICE SINK
B	1	1	0	1	1
R-2	1	1	1	1	1
S-2	1	1	1 (EYEWASH/SHOWER)	1	1
TOTAL	3	3	2	3	3

PLUMBING FIXTURES PROPOSED

USE GROUP	WC	LAVS	SHOWERS	D.F.	SERVICE SINK
B	1	1	0	1	1
R-2	3	3	3	1	1
S-2	1	1	1/1 (EYEWASH/SHOWER)	0	1
TOTAL	5	5	4	2	3

STORM SHELTER PROVISIONS

REFER TO SHEET G0.02 FOR STORM SHELTER INFORMATION.

OTHER PROVISIONS

AN EMERGENCY BACK-UP GENERATOR WILL SUPPLY ALL CRITICAL FUNCTIONS INCLUDING EGRESS LIGHTING.

REFER TO SHEET S0.1 FOR ADDITIONAL CODE NOTES AND REFERENCES

GOVERNING CODE: 2017 OHIO BUILDING CODE.

BUILDING RISK CATEGORY: CATEGORY IV

DESIGN LOADS:

FLOOR LIVE LOADS (WITH ALLOWABLE REDUCTIONS WHERE APPLICABLE)
- STAIRS & EXITS 100 PSF
- MEZZANINE/STORAGE (LIGHT) 125 PSF

OTHER PROVISIONS (CONTINUED)

ROOF LIVE LOADS
- ORDINARY FLAT, PITCHED, AND CURVED ROOFS 20 PSF
- FABRIC AWNINGS/CANOPIES ON SKELETON STRUCTURE 5 PSF

SNOW
- GROUND SNOW LOAD (Pg) 20 PSF
- FLAT ROOF SNOW LOAD (Pf) 20.2 PSF
- SNOW EXPOSURE FACTOR (Ce) 1.0
- SNOW LOAD IMPORTANCE FACTOR (Is) 1.2
- THERMAL FACTOR (Ct) 1.2
- SNOW DRIFTING SEE PLAN

WIND
- BASIC ULTIMATE WIND SPEED (Vult) 120 MPH
- BASIC ALLOWABLE WIND SPEED (Vasd) 93 MPH
- SITE EXPOSURE CATEGORY C
- INTERNAL PRESSURE COEFFICIENT (Gcpi) +/-0.55

SEISMIC
- SEISMIC IMPORTANCE FACTOR 1 .5
- MAPPED SPECTRAL RESPONSE ACCELERATION, Ss 0.153
- MAPPED SPECTRAL RESPONSE ACCELERATION, S1 0.071
- SEISMIC SITE CLASS D
- DESIGN SPECTRAL RESPONSE ACCELERATION, SDS 0.163
- DESIGN SPECTRAL RESPONSE ACCELERATION, SD1 0.114
- SEISMIC DESIGN CATEGORY C
- BASIC SEISMIC FORCE-RESISTING SYSTEM(S)
  1. STEEL SYSTEMS NOT SPECIFICALLY DETAILED
  2. ORDINARY REINFORCED MASONRY SHEAR WALLS
  3. LIGHT-FRAME (COLD-FORMED STEEL) WALL SYSTEMS USING FLAT STRAP BRACING
- RESPONSE MODIFICATION COEFFICIENT(S), R 2.0
- SEISMIC RESPONSE COEFFICIENT(S), Cs 0.122
- SEISMIC DESIGN BASE SHEAR, V 74 K
- ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE

GEOTECHNICAL
- GEOTECHNICAL ENGINEER: PROFESSIONAL SERVICE INDUSTRIES, INC.
- REFERENCE REPORT ID OR NUMBER: 01051248
- REFERENCE REPORT DATE: 04/10/2018
- FOUNDATION TYPE SHALLOW SPREAD FOOTING
- ALLOWABLE DESIGN BEARING PRESSURE 3,000 PSF

SPECIAL LOADS
- INTERIOR WALLS & PARTITIONS 5 PSF HORIZONTAL
- HANDRAIL LOADS 50 PLF/200# CONC.
- RETAINING WALLS 50 PCF
- BASEMENT WALLS 60 PCF

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Timothy J. Bernert, License #12305
Expiration Date 12/31/2021

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3	09/11/2020	BULLETIN #1

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CHECKED	TJB
CAD	-

TITLE
COVER SHEET

SHEET NO.
G0.01

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STORM SHELTER INFORMATION

GOVERNING CODES:
- OBC 2017, SECTION 423 STORM SHELTERS
- ICC 500 2014

THIS SHELTER IS CLASSIFIED AS A COMMUNITY TORNADO SHELTER.
THE SHELTER IS LOCATED ON THE MAIN FLOOR LEVEL OF A FIRE STATION WITH A MEZZANINE ABOVE.

THE SHELTER IS DESIGNED TO ACCOMMODATE 13 OCCUPANTS.

ICC 500, 2014 CHAPTER 3: STRUCTURAL DESIGN CRITERIA

THE TORNADO SHELTER HAS BEEN DESIGNED PER THE REQUIREMENTS OF ICC 500 - 2014.

- SHELTER DESIGN WIND SPEED, V(ult): 250 mph
- WIND EXPOSURE CATEGORY: C
- INTERNAL PRESSURE COEFFICIENT (GCpi): +/- 0.55
- TOPIGRAPHICAL FACTOR: 1.0
- DIRECTIONALITY FACTOR: 1.0
- MINIMUM FOUNDATION CAPACITY REQUIREMENTS: TBD
- SHELTER INSTALLATION REQUIREMENTS: TBD (WILL BE PROVIDED WITHIN THE CONSTRUCTION DOCUMENTS)

REFER TO SHEET S4.01 FOR ADDITIONAL STRUCTURAL NOTES AND DETAILS.

ICC 500, 2014 CHAPTER 4: SITING

THE SHELTER IS NOT BEING CONSTRUCTED WITHIN AN AREA SUSCEPTIBLE TO FLOODING.
THE FIRE STATION (AND SHELTER) LIES IN AREA 39057C0130D.
PER THE ATTACHED FEMA MAP (THIS SHEET), THIS AREA IS LISTED AS "AREA OF MINIMAL FLOOD HAZARD".

THE SITE IS LOCATED OUTSIDE OF ANY FLOOD PLAINS. THEREFORE, BASE FLOOD ELEVATION IS NOT APPLICABLE.

THE SHELTER FINISHED FLOOR ELEVATION IS 922.70. THE SURROUNDING SITE HAS AN AVERAGE ELEVATION OF 920.50.

THE SHELTER IS NOT LOCATED IN A PRECAUTIONARY ZONE.
PER A SEARCH OF SARA TITLE III FACILITY REPORTS BY THE MONTGOMERY/GREENE COUNTIES LOCAL EMERGENCY RESPONSE COUNCIL, NO HAZARDOUS SUBSTANCE FACILITIES OR STORAGE WERE DISCOVERED.

REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

ICC 500 2014, SECTION 501 COMMUNITY SHELTERS

TABLE 501.1.1 (TORNADO) - OCCUPANCY DENSITY
- 5 SF/STANDING OR SEATED
- 10 SF/WHEELCHAIR SPACE (1:200)

501.1.2.2 - ALTERNATIVE CALCULATION OF USABLE FLOOR AREA

GROSS AREA	= 15' - 3 5/8" x 8' 7 5/8"	= 132.14 SF
	WALL AREA	- 31.41 SF
	FIXED OBJECTS	- 25.17 SF
NET CLEAR AREA		75.56 SF

MAXIMUM OCCUPANCY = 13 OCCUPANTS + 1 WHEELCHAIR
DECLARED BUILDING OCCUPANCY = 13 OCCUPANTS

501.2 - NUMBER OF DOORS
- BASED ON SHELTER OCCUPANCY, ONLY ONE MEANS OF EGRESS IS REQUIRED.
- PER EXCEPTION LISTED UNDER 501.2, NO EMERGENCY ESCAPE OPENING IS REQUIRED FOR SHELTERS WITH AN OCCUPANT LOAD NOT EXCEEDING 16 OCCUPANTS.

501.3 - DIRECTION OF SWING
- DOOR SHALL SWING INTO THE SHELTER SPACE IN ACCORDANCE WITH OBC 2017.
- DOOR ASSEMBLY TO BE TESTED AND LABELED IN ACCORDANCE WITH ICC 500 2014, CHAPTER 8 AND ASTM E361.

504 - SIGNAGE FOR COMMUNITY SHELTERS
- REFER TO VIEWS C2 & D5 ON THIS SHEET FOR SIGNAGE LOCATIONS.
- REFER TO SIGNAGE LEGEND ON SHEET A0.04 FOR SIGNAGE DETAILS.

ICC 500, 2014 CHAPTER 6: FIRE SAFETY

601.1 - FIRE SEPARATION
- ALL SHELTER WALLS ARE 2 HOUR FIRE RATED PARTITIONS. UL DESIGN NO. U905.
- SHELTER HORIZONTAL ASSEMBLY (CEILING/ROOF) IS A 2 HR. RATED ASSEMBLY. UL DESIGN NO. D219.

602 - FIRE EXTINGUISHERS
- A WALL HUNG FIRE EXTINGUISHER IS PROVIDED MEETING IBC AND NFPA 10 REQUIREMENTS.
- REFER TO SHEET A0.01 FOR MOUNTING DETAILS.

ICC 500, 2014 CHAPTER 7: SHELTER ESSENTIAL FEATURES AND ACCESSORIES

SECTION 702: TORNADO SHELTERS
STORM SHELTER OCCUPANCY IS 13 PEOPLE.

TABLE 702.1.1
- VENTILATION OPENING REQUIREMENTS ARE 5 IN^2 PER OCCUPANT, SO TOTAL OF 65 IN^2 TOTAL.
- GREATER THAN 2/3RD S (>43 IN^2) OF THE AREA IS TO BE HIGH AND GREATER THAN 1/4TH (>17 IN^2) OF THE AREA IS TO BE LOW.
- 48 IN^2 PROVIDED HIGH (8"x8" OPENING WITH TYPE "A" FIRE DAMPER).
- 22.5 IN^2 PROVIDED LOW (THROUGH 5/8" UNDERCUT OF 36" WIDE DOOR).

REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

TABLE 702.2
- ONE WATER CLOSET IS REQUIRED.
- THE LAVATORY IS NOT REQUIRED.
- HAND SANITIZER WILL BE STORED BY THE OWNER.

BASED ON 3 WATER CLOSET USES PER 8HR PERIOD PER OCCUPANT (FROM L.E.E.D.), IN A 2 HR PERIOD THAT IS 3/4 USES PER PERSON.
FOR 13 PEOPLE, 10 FLUSHES WILL BE REQUIRED.

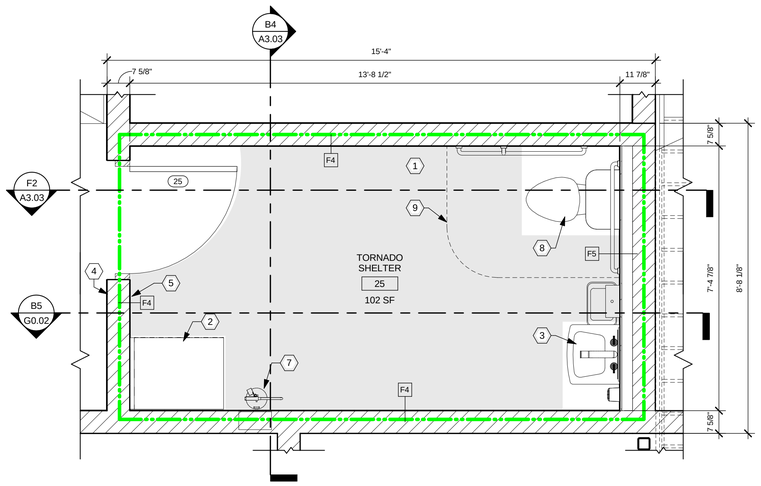
THE TANK WILL BE FILLED ON ENTRY INTO THE SPACE AS A STORM SHELTER, THE FIRE DEPARTMENT WILL NEED TO STORE ENOUGH WATER TO ACCOMMODATE 9 ADDITIONAL FLUSHES.

EACH TANK FILL/FLUSH REQUIRES 1.6 GALLONS OF WATER, 1.6 GALLONS PER FLUSH X 9 = 14.4 GALLONS MINIMUM OF POTABLE WATER NEED TO BE MADE AVAILABLE FOR WATER CLOSET USAGE.

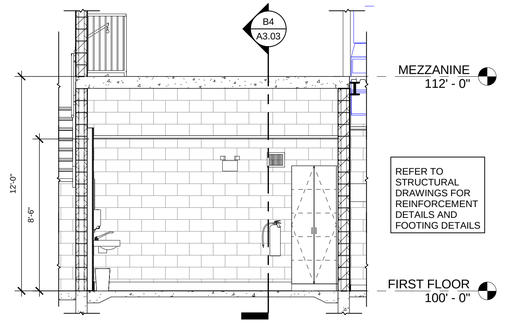
ADDITIONAL POTABLE WATER SHALL BE STORED FOR DRINKING.
INCLUDE THESE REQUIREMENTS IN THE OWNER'S INSTRUCTIONS.

REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

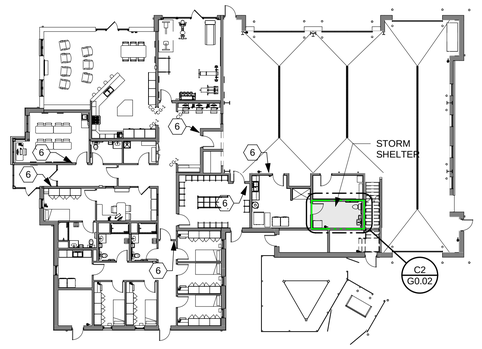
702.3 EMERGENCY LIGHTING
- EMERGENCY LIGHTING HAS INTEGRATED BATTERY BACK-UPS.
- A MINIMUM OF (2) FLASHLIGHTS >20 LUMENS EACH ARE TO BE STORED IN THE SHELTER.



C2 STORM SHELTER PLAN
1/2" = 1'-0"



B5 G0.02 SHELTER SECTION
1/4" = 1'-0"



D5 STORM SHELTER AREA PLAN
1" = 20'-0"

STORM SHELTER SPECIAL INSTRUCTIONS

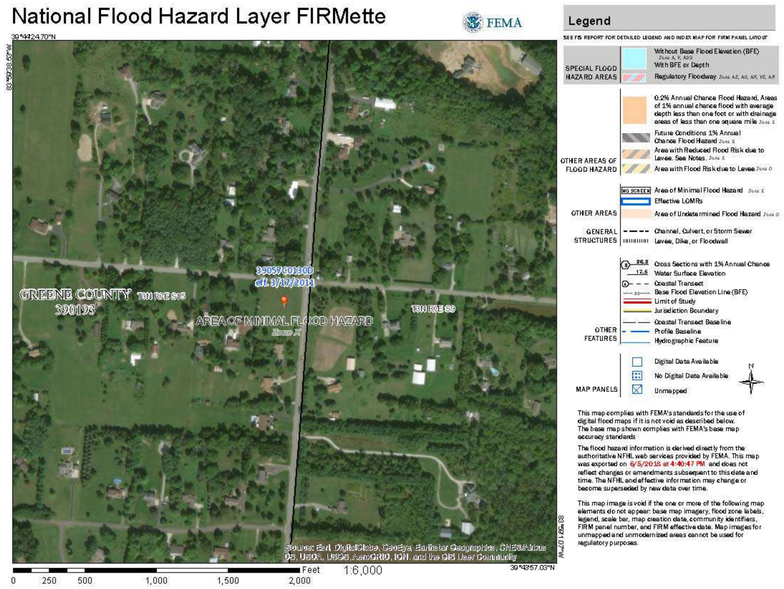
STORM EVENT OPERATIONS PLAN

POSITION DESIGNATED PERSONNEL AT DOOR TO ENSURE THAT ONCE ALL OCCUPANTS ARE INSIDE SHELTER, DOOR REMAINS CLOSED AND LOCKED DURING THE ENTIRE STORM EVENT.
- OPENING DOOR DURING HIGH PRE-EVENT OR EVENT WINDS COULD DAMAGE THE DEVICE, REMOVE THE DEVICE, OR MAKE IT WHERE THE DEVICE CANNOT BE RE-CLOSED MAKING ALL SHELTER OCCUPANTS VULNERABLE TO THE WIND EVENT FOR WHICH THEY ARE SEEKING PROTECTION.

SHELTER OCCUPANTS ARE NOT TO PHYSICALLY CONTACT THE EXTERIOR WALLS OR OPENING PROTECTIVE DEVICES OF THE SHELTER.
- VERY LARGE POINT LOADS CREATED BY DEBRIS MAY BE EXERTED ON THE EXTERIOR WALL AND THIS KINETIC ENERGY MAY BE TRANSFERRED THROUGH THE SHELTER WALL WHICH COULD INJURE AN INDIVIDUAL THAT IS CONTACT WITH THE EXTERIOR WALL OF THE SHELTER.

STORAGE CABINET CONTENTS

- 15 GALLONS OF POTABLE WATER FOR TOILET FLUSHING (TO BE STORED ON BOTTOM SHELF)
- 2 CASES OF 16 OZ. WATER BOTTLES (EQUALING 3 GALLONS) FOR DRINKING
- HAND SANITIZER
- FIRST AID KIT
- (2) FLASHLIGHTS WITH > 20 LUMENS OUTPUT EACH
- EVACUATION TOOLS
  - HAMMER
  - PRY BAR
  - WORK GLOVES



CONSTRUCTION NOTES

(00) INDICATES CONSTRUCTION NOTE.

1. SHADED AREA REPRESENTS ACTUAL CLEAR FLOOR AREA OF 75.56 S.F. TOTAL ROOM AREA IS 100.73 S.F.
2. STORAGE CABINET FOR WATER AND EMERGENCY SUPPLIES.
3. ADA LAVATORY. REFER TO PLUMBING DRAWINGS AND MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.01 FOR DETAILS.
4. SIGN TYPE 4. REFER TO SIGNAGE LEGEND ON SHEET A0.04 FOR DETAILS.
5. SIGN TYPE 5. REFER TO SIGNAGE LEGEND ON SHEET A0.04 FOR DETAILS.
6. SIGN TYPE 6. REFER TO SIGNAGE LEGEND ON SHEET A0.04 FOR DETAILS.
7. WALL MOUNTED FIRE EXTINGUISHER. OFCI. REFER TO SHEET A1.11 FOR DETAILS.
8. ADA TOILET. REFER TO PLUMBING DRAWINGS AND MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.01 FOR DETAILS.
9. CUBICAL CURTAIN AND TRACK. REFER TO SPECIFICATIONS AND SHEET A0.05 FOR DETAILS.

GENERAL NOTES

THE SHEET CONTAINS A GENERAL OVERVIEW OF TORNADO SHELTER INFORMATION.
FOR FURTHER NOTES AND DETAILS REFER TO THE PERTINENT DISCIPLINE'S DRAWINGS CONTAINED IN THE THIS SET.

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STATE OF OHIO
TIMOTHY J. BERNERT
REGISTERED ARCHITECT
12305

Timothy J. Bernert, License #12305
Expiration Date 12/31/2021

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TITLE
STORM SHELTER INFORMATION

SHEET NO.
G0.02

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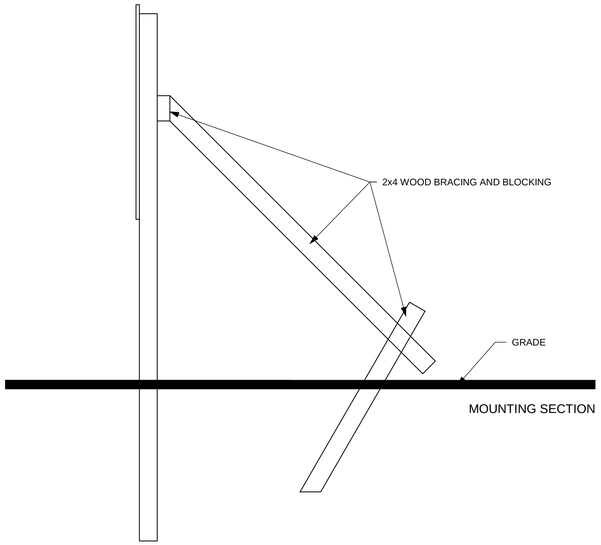
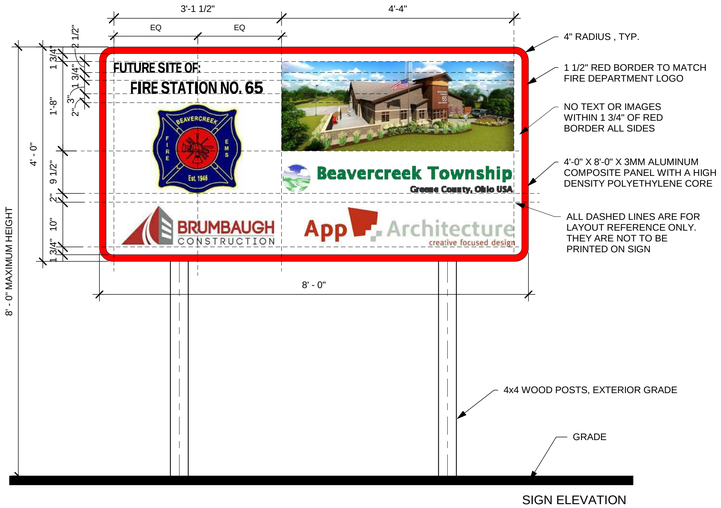


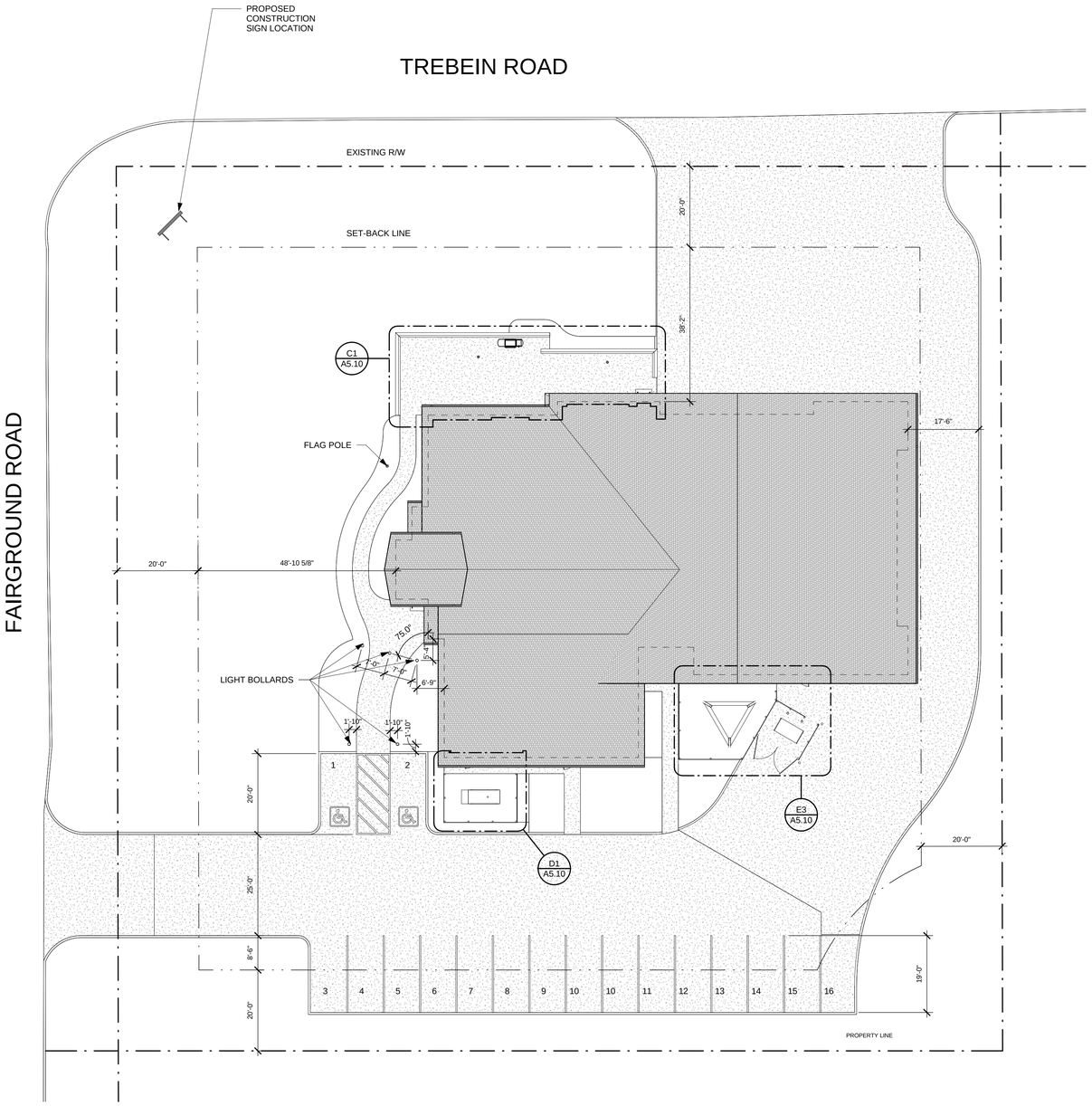
CONSTRUCTION SIGN NOTES:

A. LEFT JUSTIFY "FUTURE SITE OF:"
B. CENTER JUSTIFY "FIRE STATION No. 65", FIRE DEPARTMENT & CONGER LOGOS
C. RIGHT JUSTIFY APP ARCHITECTURE AND BEAVERCREEK TWP LOGOS UNDER FIRE STATION IMAGE. MATCH WIDTH.
D. CONGER CONSTRUCTION GROUP & APP ARCHITECTURE LOGOS TO BE SAME HEIGHT. 10" +/-.
E. FIRE DEPARTMENT LOGO SIZED TO BE 2" BELOW "FIRE STATION No: 65" & 2" ABOVE CONGER LOGO.
F. ALL LETTERS TO BE UPPER CASE VINYL
G. ALL LETTERS TO BE SOLID BLACK
H. COORDINATE LOCATION WITH OWNER
I. PAINT ALL POSTS, BRACING AND BLOCKING TO MATCH BACKGROUND COLOR
J. ALL LOGOS AND ARTWORK TO BE VINYL GRAPHICS. IMAGERY TO BE PROVIDED BY ARCHITECT.
K. SIGN TO BE REMOVED UPON CONSTRUCTION COMPLETION.



SIGN ELEVATION

F1 CONSTRUCTION SIGN
3/4" = 1'-0"



F4 SITE COORDINATION PLAN
1/16" = 1'-0"

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STATE OF OHIO TIMOTHY J. BERNERT REGISTERED ARCHITECT 12305

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TITLE
SITE COORDINATION PLAN

SHEET NO.
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ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON NAVD 88 (ODOT VRS GEOID 12A).

GENERAL NOTES AND DETAILS

ALL CONSTRUCTION METHODS, MATERIALS, AND SPECIFICATIONS SHALL COMPLY WITH GREENE COUNTY STANDARDS AND SPECIFICATIONS AND/OR OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARDS AND SPECIFICATIONS (INCLUDING CURRENT SUPPLEMENTAL SPECIFICATIONS 800 AND 832), WHICHEVER IS MORE RESTRICTIVE AS DETERMINED BY GREENE COUNTY.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE DATA. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING THEM IN THE FIELD PRIOR TO CONSTRUCTION AND WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THEM. CONTRACTOR TO CONTACT OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION.

NON-MEMBERS MUST BE CALLED DIRECTLY.

UTILITY OWNERSHIP

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

STREETS, WATER, SANITARY AND STORM SEWER
GREENE COUNTY SANITARY
ENGINEERING DEPARTMENT
667 DAYTON-XENIA ROAD
XENIA, OHIO 45385
(937) 562-7450
ATTN: TIM GROW/RANDY GILBERT

ELECTRIC
DAYTON POWER & LIGHT
1900 DRYDEN ROAD
DAYTON, OHIO 45439
(937) 608-2814
ATTN: WILLIAM GOURLEY

OHIO UTILITIES PROTECTION
SERVICE 2 WORKING DAYS BEFORE
YOU DIG CALL TOLL FREE
800-362-2764

TELEPHONE
AT&T
3233 WOODMAN DRIVE
DAYTON, OHIO 45420
(937) 296-3894
ATTN: JESSE WEAD

CABLE
CHARTER COMMUNICATION
3691 TURNER ROAD
DAYTON, OHIO 45415
(937) 425-8850
ATTN: JACOB HOUDESHELL

GAS
VECTREN
2345 E. MAIN STREET
DANVILLE, INDIANA 46122
(317) 718-3639

UTILITY INTERFERENCE

IF, DURING THE CONSTRUCTION, INTERFERENCE ARISES WITH EXISTING UTILITIES IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY AND COORDINATE AS NEEDED WITH THE UTILITY COMPANY INVOLVED. ANY AND ALL WORK REQUIRED FOR PRIVATE UTILITIES SHALL BE COORDINATED WITH AND, IF REQUIRED, DONE BY THEIR RESPECTIVE OWNERS, UNLESS OTHERWISE NOTED ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY, AT LEAST 7 DAYS BEFORE BREAKING GROUND, ALL PUBLIC SERVICE CORPORATIONS HAVING WIRES, POLES, PIPES, CONDUITS, MANHOLES, OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION, INCLUDING ALL STRUCTURES WHICH ARE AFFECTED AND NOT SHOWN ON THESE PLANS.

EXISTING TILE HOOKUPS

THE DRAINAGE TILE CURRENTLY CONNECTED TO THE EXISTING STORM SEWER SHALL BE CONNECTED TO THE PROPOSED STORM SEWER. ANY DRAINAGE TILE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. ALL TILE REMOVED, REPLACED AND/OR CONNECTED TO THE STORM SEWER SHALL BE NOTED ON THE RECORD DRAWINGS AND SHALL BE INSPECTED BY GREENE COUNTY BEFORE THEY ARE COVERED.

ALL FIELD OR STORM DRAINS WHICH ARE ENCOUNTERED DURING CONSTRUCTION SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS OR PLUGGED AS APPROVED AND DIRECTED BY GREENE COUNTY CONNECTION OF INTERSECTING DRAIN TILES AND THE PROPOSED STORM SEWER SHALL BE THROUGH MANUFACTURED TEES, UNLESS OTHERWISE APPROVED BY GREENE COUNTY. COST OF ALL THE ITEMS ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PROJECT.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, GREENE COUNTY SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT THE EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, GREENE COUNTY SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY. COST OF ALL THE ITEMS ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PROJECT.

MUD

THE TRACKING OR SPILLAGE OF MUD, DIRT, OR DEBRIS UPON PUBLIC STREETS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

EXISTING UTILITY CONFLICT NOTE

IF A CONFLICT ARISES WITH EXISTING UTILITIES, THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY TO GET THE CONFLICT RESOLVED.

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. CHOICE ONE ENGINEERING CORPORATION MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN-SERVICE OR ABANDONED. CHOICE ONE ENGINEERING CORPORATION FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. CHOICE ONE ENGINEERING CORPORATION HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

CAD FILE DISCLAIMER

THE CAD FILE ASSOCIATED WITH THESE CONSTRUCTION PLANS IS A NON-CERTIFIED DOCUMENT. ANY USE OF THE INFORMATION OBTAINED OR DERIVED FROM THE ASSOCIATED CAD FILE WILL BE AT THE RECEIVING PARTY/USER'S RISK. CHOICE ONE ENGINEERING CORP. OFFERS NO WARRANTY AS TO THE ACCURACY OF THE INFORMATION IN THE CAD FILE OR THAT REVISIONS HAVE BEEN ISSUED AFTER THE CAD DRAWING WAS RELEASED. RECEIVING PARTIES/USERS SHALL HOLD HARMLESS TO THE MAXIMUM EXTENT ALLOWED BY LAW CHOICE ONE ENGINEERING CORP. FROM ANY USE OF THE CAD FILE BY THE RECEIVING PARTY/USER. IN ALL CIRCUMSTANCES, AND AT ALL TIMES, THE PUBLISHED PAPER AND/OR PDF DRAWINGS FOR THE PROJECT SHALL SUPERSEDE THE CAD FILES. IN THE CASE OF AN INCONSISTENCY BETWEEN THE PUBLISHED PAPER/PDF DRAWINGS AND THE ASSOCIATED CAD FILE, THE PUBLISHED PAPER/PDF DRAWINGS SHALL GOVERN THE PROJECT AND ALL WORK.

SAFETY

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

MASONRY COLLAR

A CONCRETE COLLAR SHALL BE PROVIDED WHERE PROPOSED STORM SEWER PIPE IS CONNECTED TO AN EXISTING PIPE. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT.

DEWATERING

ANY NECESSARY DEWATERING OR PUMPING NECESSARY FOR THE CONSTRUCTION OF ANY ITEMS SHALL BE INCIDENTAL TO THOSE PARTICULAR CONSTRUCTION ITEMS AND SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PROJECT.

CLEAN WATER NOTE

ROOF DRAINS, FOUNDATION DRAINS, AND ALL OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SYSTEM ARE PROHIBITED

STORM SEWER INSTALLATION

THIS WORK CONSISTS OF CONSTRUCTING STORM SEWER. THE CONTRACTOR SHALL PROVIDE ALL TOOLS AND EQUIPMENT REQUIRED FOR INSTALLING THESE ITEMS. THE WORK ALSO INCLUDES FURNISHING ALL MATERIALS, EXCAVATING, BEDDING, LAYING PIPE, JOINTING, BACKFILLING, REMOVAL AND RESTORATION OF DISTURBED FACILITIES AND SURFACES, CURB REPAIR, SIDEWALK REPAIR, PAVEMENT REPAIR (i.e. PAVEMENT IN STREETS, ALLEYS AND DRIVEWAYS), DISPOSAL OF ALL SURPLUS EXCAVATION AND DISCARDED MATERIALS, AND OTHER WORK NECESSARY TO COMPLETE THE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD LOCATE ALL EXISTING STORM SEWER, AND OTHER UTILITIES, PRIOR TO INSTALLING THE PROPOSED STORM SEWER SYSTEM. THE EXISTING STORM SEWER AND LATERALS SHOWN ON THE PLANS ARE IN THE APPROXIMATE LOCATION AND IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD LOCATE PROPOSED TIE-INS TO THE EXISTING STORM PRIOR TO ANY STORM SEWER CONSTRUCTION. ALL TIE-INS SHALL BE THROUGH PREMANUFACTURED TEES OR HOLES INSTALLED USING A CORING MACHINE. PIPE MAY BE ANY OF THE PIPE TYPES LISTED BELOW UNLESS OTHERWISE SPECIFIED ON THE PLANS.

TYPES OF PIPE PERMITTED	ODOT MATERIALS NUMBERS
CORRUGATED POLYETHYLENE SMOOTH-LINED PIPE (CPSLP)	707.33
POLYVINYL CHLORIDE SOLID WALL PIPE (SDR-35)	707.45
REINFORCED CONCRETE PIPE	706.02

GENERAL NOTES

1. INSTALL AND TEST ALL UTILITIES PER GREENE COUNTY STANDARDS.

2. ALL DISTURBED AREAS AND ALL NON-PAVEMENT AREAS SHALL HAVE A MINIMUM OF 6" OF TOP SOIL PLACED AND ARE TO BE SEEDED AND MULCHED PER ODOT ITEM 659.

3. ALL CONCRETE USED FOR HEAVY DUTY PAVEMENT(S) AND STANDARD DUTY PAVEMENT(S) SHALL BE ODOT QC-1 AND REINFORCED WITH CONCRETE FIBERS AS SPECIFIED IN THE PROPOSED PAVEMENT SECTION(S). ALL OTHER CONCRETE (WALKS, CURBS, ETC.) SHALL BE ODOT QC MISC. (CEMENT ONLY - NO POZZOLAN MATERIAL) REINFORCED WITH 1.5 LBS/C.Y. OF FIBERSTRAND 150, 3/4" LENGTH FIBRILLATED MICROFIBERS. CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES.

4. CONTRACTOR TO BE RESPONSIBLE FOR ANY PERMITS OR FEES THAT MAY BE NECESSARY FOR THE COMPLETION OF THE SITE WORK.

5. ALL WORK SHALL CONFORM WITH ALL FEDERAL, STATE, AND LOCAL ADA REGULATIONS AND STANDARDS.

6. ALL ITEMS ON SITE PLAN SHALL BE CONSTRUCTED PER GREENE COUNTY STANDARDS.

7. ALL PIPING/CONDUITS AND RELATED WORK IS TO BE IN ACCORDANCE WITH ODOT SUPPLEMENTAL SPECIFICATION 811, DATED JANUARY 18, 2013

MAINTAINING TRAFFIC

MAINTAIN TRAFFIC AS INDICATED IN THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", ALSO THE FOLLOWING REQUIREMENTS SHALL APPLY.

EXCAVATIONS WITHIN PUBLIC RIGHT-OF-WAY LIMITS SHALL BE CLOSED AT TIMES WHEN WORK IS NOT BEING PERFORMED.

LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT DURING THE TIME THAT AN APPROVED CLOSURE AND DETOUR IS ALLOWED BY THE GOVERNING AUTHORITY.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING NECESSARY TRAFFIC CONTROL DEVICES AND PAVEMENT REPAIR MATERIALS TO MAINTAIN THE TRAVELED PAVEMENT SAFELY.

NO SHUT DOWN OF ANY OWNER FACILITY DRIVE, ROADWAY OR PARKING LOT WILL BE ALLOWED WITHOUT WRITTEN CONSENT FROM THE OWNER. ALL OWNER ROADWAYS MUST HAVE AT LEAST ONE LANE OPEN AT ALL TIMES. NO STAGING OF TRUCKS OUTSIDE OF CONSTRUCTION LIMITS WILL BE PERMITTED WITHOUT CONSENT FROM THE OWNER.

SUBCONTRACTOR SUPERVISION

THE CONTRACTOR IS REQUIRED TO HAVE SOMEONE ON-SITE TO SUPERVISE THE SUBCONTRACTOR FOR QUALITY CONTROL PURPOSES AND TO PROVIDE ANY NECESSARY ASSISTANCE TO THE SUBCONTRACTOR TO ENSURE QUALITY WORK.

COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTORS OVERALL LUMP SUM BID FOR THE PROJECT.

EXCAVATION AND EMBANKMENT

TOPSOIL SHALL BE REMOVED FROM ALL DISTURBED AREAS AND ALL AREAS TO BE EXCAVATED OR EMBANKED. A MINIMUM OF 6" OF TOPSOIL SHALL BE FINE GRADED ON ALL DISTURBED AREAS.

ALL EMBANKMENT SHALL BE COMPACTED TO A MINIMUM OF 100% STANDARD PROCTOR OR AS DETERMINED BY THE OWNER. TESTING MAY BE REQUIRED BY THE OWNER.

SAWCUT PAVEMENT JOINTS

MORE THAN ONE SAWCUT MAY BE NECESSARY TO ENSURE A CLEAN CUT. JUST PRIOR TO ASPHALT OR CONCRETE PLACEMENT, ASPHALT MATERIAL SHALL BE PLACED ON THE VERTICAL FACE OF SAWCUT JOINTS PRIOR TO PAVING AS PER 401.14. AFTER THE ASPHALT WORK IS COMPLETED, THE TRANSVERSE JOINTS SHALL BE SEALED WITH LIQUID ASPHALT.

WATER LINE CROSSING SEPARATION

WATER LINE SHALL BE LAID AT LEAST 10' HORIZONTALLY FROM ANY SEWERS. AT CROSSINGS, THE WATER MAIN SHALL HAVE A MINIMUM VERTICAL DISTANCE OF 18" FROM STORM AND SANITARY SEWERS. ALSO ONE FULL LENGTH OF WATER MAIN SHALL BE LOCATED SO THE JOINTS ARE AS FAR FROM THE STORM AND SANITARY SEWERS AS POSSIBLE.

PAVEMENT MARKINGS

ALL PAVEMENT MARKINGS SHALL BE PER ODOT ITEM 640 AND 642. ALL PAVEMENT MARKINGS TO BE TYPE 1, UNLESS APPLICATION IS REQUIRED WHEN AIR AND PAVEMENT TEMPERATURES ARE BETWEEN 35 °F AND 50 °F, THEN OBTAIN APPROVAL FROM THE OWNER AND APPLY ONLY PRE-QUALIFIED TYPE 1A COLD WEATHER TRAFFIC PAINT MATERIALS PER ITEM 642 AND 740.

ALL MARKING LAYOUT AND COLOR SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

DOWNSPOUTS

THE CONTRACTOR SHALL CONNECT ANY DOWNSPOUTS AS SHOWN ON THE SITE PLAN OR TO THE CLOSEST STORM PIPING OR CATCH BASINS USING CPSLP OR PVC SDR-35 SEWER OR APPROVED EQUAL.

UTILITIES

CONTRACTOR SHALL INSTALL AND/OR COORDINATE THE INSTALLATION OF GAS, ELECTRIC, TELEPHONE AND CABLE TELEVISION. CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES PRIOR TO INSTALLATION OF ANY FACILITIES. ALL UTILITIES SHALL BE INSTALLED PER EACH PARTICULAR UTILITY COMPANY'S STANDARDS AND PROCEDURES. CONTRACTOR TO VERIFY ACTUAL SIZES, LOCATIONS (POINTS OF ENTRY INTO THE BUILDING) AND INVERTS OF ALL UTILITIES TYING INTO THE BUILDING WITH ARCHITECT PLANS BEFORE CONSTRUCTION.

ASPHALT PAVEMENT REPLACEMENT NOTE

ANY EXISTING PAVEMENT THAT IS TO BE REMOVED SHALL BE SAWCUT FULL DEPTH AND RESTORED TO MATCH THE EXISTING PAVEMENT CROSS SECTION UNLESS OTHERWISE NOTED IN THE PLANS.

ASPHALT

ALL ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL APPLY TO THIS PROJECT EXCEPT FOR ODOT ITEM 401.20 ASPHALT BINDER PRICE ADJUSTMENT (ASPHALT CONCRETE BID ITEMS ARE NOT ELIGIBLE FOR ANY ASPHALT BINDER PRICE ADJUSTMENT).

ALL ASPHALT DELIVERED SHALL BE ACCOMPANIED WITH A LOAD TICKET AS PER ITEM 401.21.

REVIEW OF DRAINAGE FACILITIES

BEFORE FINAL ACCEPTANCE BY THE OWNER, REPRESENTATIVES OF THE OWNER, AND THE CONTRACTOR, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. ALL EXISTING SEWERS INSPECTED BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO PRE-EXISTING CONDITION OF THE SEWER. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO SATISFACTION OF THE OWNER.

ALL NEW CONDUITS, UNDERDRAINS (INCLUDING THE STONE BACKFILL ABOVE THE UNDERDRAIN PIPING), INLETS, CATCH BASINS, MANHOLES, SWALES/DITCHES, AND **DETENTION BASINS** CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER (INCLUDING SEDIMENT) AND IN A CLEAN CONDITION AND FULLY AND PROPERLY FUNCTIONAL BEFORE THE PROJECT WILL BE ACCEPTED BY THE OWNER.

CLEARING AND GRUBBING

CONTRACTOR TO CLEAR THE AREA AS SHOWN ON THE PLANS AND/OR AS NEEDED TO WORK ON THIS PROJECT. UNLESS STATED ELSEWHERE IN THE PLANS, CLEARING AND GRUBBING IS TO BE KEPT TO A MINIMUM IN ORDER TO PRESERVE THE WOODED AREAS.

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REGISTERED
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Beavrcreek Township

Fire Station No. 65

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ISSUE:

NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION

DATE	04/03/2020
JOB NO.	GREBEV1703
DRAWN	TAN
CHECKED	MLS
CAD	---

TITLE
GENERAL NOTES

SHEET NO.
C1.0

MODIFICATIONS

ANY MODIFICATIONS TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE OWNER.

RESTORATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DISTURBED AND/OR DAMAGED AREAS, INCLUDING PAVEMENT, TO CONDITIONS EQUAL TO OR BETTER THAN CONDITIONS PRIOR TO CONSTRUCTION OR TO THE SATISFACTION OF THE OWNER.

MISCELLANEOUS

THE INTENT OF THESE DRAWINGS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE CONTRACTOR. PERFORMANCE BY THE CONTRACTOR SHALL BE REQUIRED TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS.

IN THE CASE OF AN INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE OWNER'S REPRESENTATIVE'S INTERPRETATION.

CONTRACTORS SHALL VERIFY ALL GRADES, ELEVATIONS, AND EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

CONTRACTOR'S LUMP SUM BID PRICE SHALL INCLUDE ALL ITEMS AND OPERATIONS NEEDED, REQUIRED AND NECESSARY FOR THE PROPER EXECUTION OF THE PROJECT AND TO COMPLETE ALL WORK.

GRAFFITI AND VANDALISM

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ANY CONCRETE WORK OR OTHER ITEMS UNDER THIS CONTRACT WHICH IS DEEMED UNACCEPTABLE BY THE OWNER DUE TO GRAFFITI OR VANDALISM DAMAGE.

OWNER COORDINATION NOTES

THE CONTRACTOR SHALL COORDINATE THE PROPOSED WORK WITH THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY WORK ON SITE. IF THE CONTRACTOR IS TO ENGAGE IN ANY OPERATIONS THAT AFFECT THE EXISTING FACILITY OPERATIONS, THE CONTRACTOR SHALL COORDINATE THE SCHEDULING OF SUCH ACTIVITIES WITH THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY SUCH OPERATIONS OR ACTIVITIES.

THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORT, BRACING, AND OTHER DEVICES AS MAY BE REQUIRED OR AS DIRECTED BY OWNER'S REPRESENTATIVE OR THE ENGINEER TO PROTECT THE SAFETY OF THE PUBLIC, ADJACENT STRUCTURES, ROADWAY AND/OR UTILITIES. ALL WORK TO BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.

ITEM 203 EXCAVATION AND EMBANKMENT CONSTRUCTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 203 ROADWAY EXCAVATION AND EMBANKMENT, EXCEPT AS HEREIN MODIFIED.

TOPSOIL SHALL BE REMOVED FROM ALL DISTURBED AREAS AND ALL AREAS TO BE EXCAVATED OR EMBANKED. A MINIMUM OF 6" OF TOPSOIL SHALL BE FINE GRADED ON ALL DISTURBED AREAS.

ALL EMBANKMENT FOR ALL PAVEMENT OR BUILDING AREAS SHALL BE OF SUITABLE ENGINEERED FILL MATERIAL AND SHALL BE COMPACTED TO A MINIMUM OF 100% STANDARD PROCTOR OR AS DETERMINED BY THE OWNER. ALL OTHER EMBANKMENT AREAS SHALL BE COMPACTED TO A MINIMUM OF 100% STANDARD PROCTOR OR AS DETERMINED BY THE OWNER. TESTING MAY BE REQUIRED BY THE OWNER.

ALL EXCESS SURFACE MATERIAL, EXCAVATED UNSUITABLE MATERIAL AND ALL EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN RESPONSIBILITY AND EXPENSE OUTSIDE OF THE PROPERTY AT A SITE APPROVED BY THE OWNER.

PAYMENT FOR ITEM 203 EXCAVATION AND EMBANKMENT CONSTRUCTION, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 204 SUBGRADE COMPACTION, AS PER PLAN

ALL AREAS TO RECEIVE PAVEMENT SHALL BE COMPACTED AS NOTED IN ODOT ITEM 204. OWNER'S REPRESENTATIVE WILL REQUIRE PROOF ROLLING OF SUBGRADE PRIOR TO INSTALLATION OF SUB-BASE AND/OR BASE MATERIAL. PROOF ROLLING SHALL CONSIST OF DRIVING OVER THE SUBGRADE WITH A LOADED TANDEM DUMP TRUCK AS DIRECTED BY THE OWNER'S REPRESENTATIVE UNTIL NO DEFLECTION OR TIRE INDENTATION IN THE SUBGRADE IS PRESENT. CONTRACTOR TO PERFORM ALL PROOF ROLLING PROCEDURES AND ANY NECESSARY CORRECTIVE MEASURES AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

PAYMENT FOR ITEM 204 SUBGRADE COMPACTION FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 204 EXCAVATION OF SUBGRADE AND STRUCTURAL EMBANKMENT, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 204 SUBGRADE COMPACTION AND PROOF ROLLING, EXCEPT AS HEREIN MODIFIED.

THIS WORK SHALL INCLUDE THE EXCAVATING OF UNSUITABLE SUBGRADE AND REPLACING WITH ODOT ITEM 304 AGGREGATE BASE, ODOT #1, ODOT #2, OR ANY COMBINATION AS DIRECTED BY THE OWNER. LOCATION AND AMOUNT OF THIS ITEM SHALL BE LOCATED BY THE OWNER AT THE TIME OF CONSTRUCTION ONLY AFTER THE CONTRACTOR HAS SATISFACTORILY ATTEMPTED TO DRY OUT AND WORK THE SUBGRADE. THIS ITEM INCLUDES EXCAVATION AND DISPOSAL OF UNSUITABLE MATERIAL, SUBGRADE COMPACTION, AND THE SUPPLY AND PLACEMENT OF THE ABOVE MENTIONED STRUCTURAL MATERIAL. THE QUANTITY WILL BE AS DETERMINED IN THE FIELD BASED ON SITE SUBGRADE CONDITIONS, BUT THIS ITEM COULD BE NON-PERFORMED IF DEEMED UNNECESSARY.

PAYMENT FOR ITEM 204 EXCAVATION OF SUBGRADE AND STRUCTURAL EMBANKMENT, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT CUBIC YARD BID PRICE WHICH THE CONTRACTOR SHALL PROVIDE WITH THEIR LUMP SUM BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 204 GEOGRID, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 204 SUBGRADE COMPACTION AND PROOF ROLLING, EXCEPT AS HEREIN MODIFIED.

THE WORK SHALL INCLUDE SUBGRADE STABILIZATION BY UTILIZING TENSAR TX5 GEOGRID. LOCATION AND AMOUNT SHALL BE LOCATED BY THE OWNER AT THE TIME OF CONSTRUCTION. TENSAR TX5 GEOGRID SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. THIS WORK SHALL INCLUDE THE ADDITIONAL LABOR AND EQUIPMENT TO PROPERLY PLACE 304 AGGREGATE BASE OVER TENSAR AS RECOMMENDED BY THE MANUFACTURER.

THE QUANTITY WILL BE AS DETERMINED IN THE FIELD BASED ON SITE SUBGRADE CONDITIONS, BUT THIS ITEM COULD BE NON-PERFORMED IF DEEMED UNNECESSARY. THE METHOD OF MEASUREMENT SHALL BE THE SURFACE AREA COVERED BY STABILIZATION MEMBRANE, NOT INCLUDING OVERLAP OR WASTE.

PAYMENT FOR ITEM 204 GEOGRID, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT SQUARE YARD BID PRICE WHICH THE CONTRACTOR SHALL PROVIDE WITH THEIR LUMP SUM BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 304 AGGREGATE BASE, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 304 AGGREGATE BASE, EXCEPT AS HEREIN MODIFIED. THIS ITEM SHALL ALSO INCLUDE SATURATING THE AGGREGATE BASE WITH WATER DURING PLACEMENT OF EACH LIFT PRIOR TO COMPACTION. THIS WORK SHALL INCLUDE "PROOF ROLLING" WITH LOADED TANDEM DUMP TRUCK AS DIRECTED BY THE OWNER'S REPRESENTATIVE UNTIL NO DEFLECTION OR TIRE INDENTATION IN THE AGGREGATE SUB-BASE/BASE IS PRESENT.

PAYMENT FOR ITEM 304 AGGREGATE BASE FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

GENERAL NOTES FOR CONCRETE WORK

ALL WORK TO BE PER ODOT ITEM 451 AND 452 EXCEPT AS HEREIN MODIFIED

CONCRETE NOTES:

1. ALL CONCRETE USED FOR HEAVY DUTY PAVEMENT(S) AND STANDARD DUTY PAVEMENT(S) SHALL BE ODOT QC-1 AND REINFORCED WITH CONCRETE FIBERS AS SPECIFIED IN THE PROPOSED PAVEMENT SECTION(S). ALL OTHER CONCRETE (WALKS, CURBS, ETC.) SHALL BE ODOT QC MISC. (CEMENT ONLY - NO POZZOLAN MATERIAL) REINFORCED WITH 1.5 LBS/CY OF FIBERSTRAND 150, 3/4" LENGTH. CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES.

2. THE COARSE AGGREGATE USED IN THE CONCRETE SHALL MEET THE CURRENT REQUIREMENTS OF OHIO DOT 703.13; TESTING ACCORDING TO ODOT SUPPLEMENT 1024 - METHOD OF TESTING COARSE AGGREGATES TO DETERMINE SUSCEPTIBILITY TO D-CRACKING USING ASTM C 666, PROCEDURE B, STANDARD TEST METHOD FOR RESISTANCE OF CONCRETE TO RAPID FREEZING AND THAWING. THE OHIO DOT MAINTAINS A LIST OF SUCH APPROVED AGGREGATE SOURCES.

CONCRETE PAVEMENT THICKENED EDGE NOTES:

1. CONCRETE PAVEMENT SHALL HAVE THICKENED EDGE ISOLATION JOINTS WITHIN THE PAVED AREAS AT THICKNESS TRANSITIONS AND WHERE JOINT SPACINGS MUST CHANGE AS WELL AS THICKENED EDGES WHERE TRAFFIC WILL CROSS TO AN ASPHALT OR GRAVEL PAVEMENT.

2. THICKENED EDGES SHALL CONSISTS OF A MINIMUM OF A 2" INCREASE IN THE THICKNESS OF THE CONCRETE PAVEMENT ALONG A MINIMUM OF THE OUTER 4 FEET OF THE PAVEMENT. THE 2" THICKNESS INCREASE SHALL TRANSITION OVER A MINIMUM OF 4 FEET.

CONCRETE PAVEMENT CONTRACTION JOINT NOTES:

1. ALL WORK TO BE PER ODOT ITEM 451.09, D. CONTRACTION JOINTS.

2. PROPOSED CONCRETE PAVEMENT AREAS SHALL BE JOINTED AS CLOSE TO SQUARE AS POSSIBLE.JOINT SPACING MAY VARY SLIGHTLY DEPENDING ON THE LENGTH AND WIDTH OF THE PROPOSED PAVEMENT AREAS. JOINT SPACING SHALL TYPICALLY RANGE FROM 6'X6' TO A MAXIMUM JOINT SPACING OF 12'X12' (FOR PAVEMENT THICKNESS GREATER THAN 6" THIS MAXIMUM JOINT SPACING CAN BE INCREASED TO 15'X15'). IN ALL CASES THE PAVEMENT SHALL BE JOINTED SO THAT THE MAXIMUM ASPECT RATIO (OF PANEL LENGTH TO WIDTH) OF THE JOINTING IS 1.25:1 OR LESS.

3. TIE/LINE UP THE CONTRACTION JOINTS IN THE CONCRETE PAVEMENT TO EXTEND THRU THE CONTRACTION JOINTS IN ANY ADJACENT CURB OR CURB AND GUTTER, RETAINING WALLS, CURBING, ETC. UNLESS ISOLATED FROM THESE BY AN ISOLATION JOINT.

4. FORM WEAKENED-PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS NOTED AND/OR AS INDICATED IN THE PLANS. CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST ONE-FOURTH OF THE CONCRETE THICKNESS. CONTRACTION JOINTS SHALL BE SAWCUT WHENEVER POSSIBLE.

5. CONSTRUCT CONTRACTION JOINTS TRUE TO LINE WITH FACES PERPENDICULAR TO SURFACE PLANE OF CONCRETE. CONSTRUCT TRANSVERSE JOINTS AT RIGHT ANGLES TO CENTERLINE, UNLESS OTHERWISE INDICATED.

6. IF SKEWED JOINT INTERSECTIONS ARE PRESENT/REQUIRED, USE 1.5 TO 3 FT "DOGLEGS" TO AVOID ACUTE ANGLE JOINT INTERSECTIONS (HAVING ANGLES LESS THAN 60 DEGREES) AT ANY SKEWED JOINT INTERSECTIONS, IN ORDER TO PREVENT RANDOM CRACKS AT THOSE LOCATIONS.

TIE BARS:

1. INSTALL #4 TIE BARS AT 30" ON CENTER WHERE THE PROPOSED CONCRETE PAVEMENT MATCHES UP TO ANY EXISTING OR PROPOSED CURB/CURB&GUTTER OR OTHER CONCRETE PAVEMENT. CONTRACTOR TO ENSURE THE CONTRACTION JOINTS IN THE CONCRETE PAVEMENT SHALL MATCH THE CONTRACTION JOINTS IN THE CURB/CURB&GUTTER OR OTHER CONCRETE PAVEMENT.

2. PER SECTION 3.8.3 OF ACI 330R-08, INSTALL #4 TIE BARS AT 30" ON CENTER ON CENTERLINE JOINTS OF SEPARATE DRIVES AND ACCESS ROADS THAT HAVE A SINGLE LONGITUDINAL JOINT. TIE BARS SHALL ALSO BE INSTALLED TO TIE THE FIRST LONGITUDINAL JOINT FROM THE PAVEMENT EDGE, WHERE CURB/CURB&GUTTER OR A THICKENED EDGE IS NOT PRESENT, TO KEEP THE OUTSIDE SLAB FROM SEPARATING FROM THE PAVEMENT. CONTRACTOR TO ENSURE THE CONTRACTION JOINTS MATCH/LINE UP ON EACH SIDE OF THE TIE BARS IN THE CONCRETE PAVEMENT/DRIVES/ROADS.

CONCRETE PAVEMENT EXPANSION/ISOLATION JOINT NOTES:

PROPOSED CONCRETE PAVEMENT AREAS SHALL BE ISOLATED FROM ALL STRUCTURES, FIXED OBJECTS AND ALL SURROUNDING EXISTING AND PROPOSED CONCRETE PAVEMENT, BUILDING/RETAINING WALLS, FOUNDATIONS, SLABS/PADS, CATCH BASINS/MANHOLES, ETC. USING ISOLATION/EXPANSION JOINTS. FOR LONG EXPANSES (OVER 100') OF PROPOSED CONCRETE PAVEMENT, EXPANSION JOINTS SHALL ALSO BE PLACED AS NEEDED AT APPROXIMATE 100'-200' INTERVALS OVER THE LENGTH OF THE CONCRETE PAVEMENT TO TRY TO MINIMIZE UPHEAVAL DURING HIGH TEMPERATURES. THESE 100'-200' INTERVAL JOINTS SHALL BE PLACED PERPENDICULAR TO THE LONGEST DIMENSION OF THE PAVEMENT.

CONCRETE PAVEMENT CAULK NOTE:

PLACE JOINT FILLER (TREMCO THC 901 POLYURETHANE CAULK) IN LIME STONE COLOR IN THE TOP 1/2" - 3/4" OF JOINT FOLLOWING MANUFACTURER INSTALLATION RECOMMENDATION. CONTRACTOR TO PLACE WHITE SILICA SAND ON TOP OF JOINT FILLER AFTER INITIAL SET.

ADDITIONAL CONCRETE PAVEMENT NOTES:

1. CURING COMPOUND: APPLY WHITE PIGMENTED CURING COMPOUND ON ALL SURFACES, INCLUDING BACK, IMMEDIATELY AFTER FINISHING SURFACES

2. FINISHING: ALL WORK TO BE PER ODOT 451.10. PRIOR TO FINISHING, CONTRACTOR TO VERIFY WITH THE OWNER OR OWNER'S REP. WHAT TYPE/KIND OF FINISH IS REQUIRED (FLOATED/TROWLED, ROUGH BROOM, ROUGH BROOM AND TINING, ETC.)

CONSTRUCTION JOINTS NOTES:

CONSTRUCTION JOINTS SHALL BE REQUIRED TO PROVIDE THE INTERFACE BETWEEN AREAS OF CONCRETE PLACED AT DIFFERENT TIMES DURING THE COURSE OF THE PROJECT. BUTT-TYPE CONSTRUCTION JOINTS SHALL BE THICKENED A MINIMUM OF 2" BY TAPERING OVER A MINIMUM OF A 4 FOOT DISTANCE OR BY THE USE OF DOWELS. IF DOWELS ARE USED, ALL WORK TO BE PER ODOT ITEM 451.10, E. CONSTRUCTION JOINTS.

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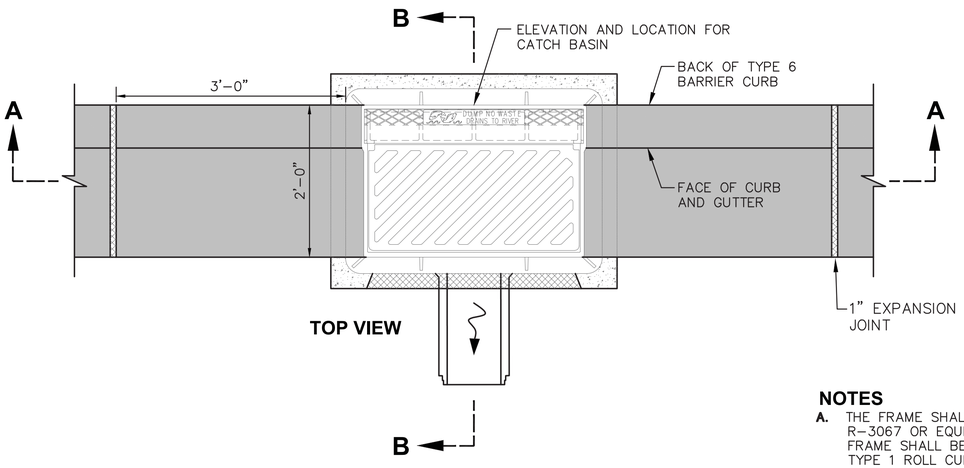
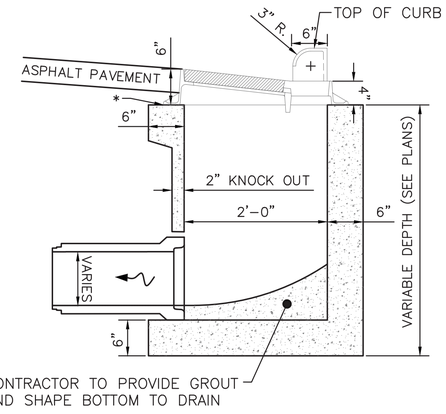
TITLE
GENERAL NOTES

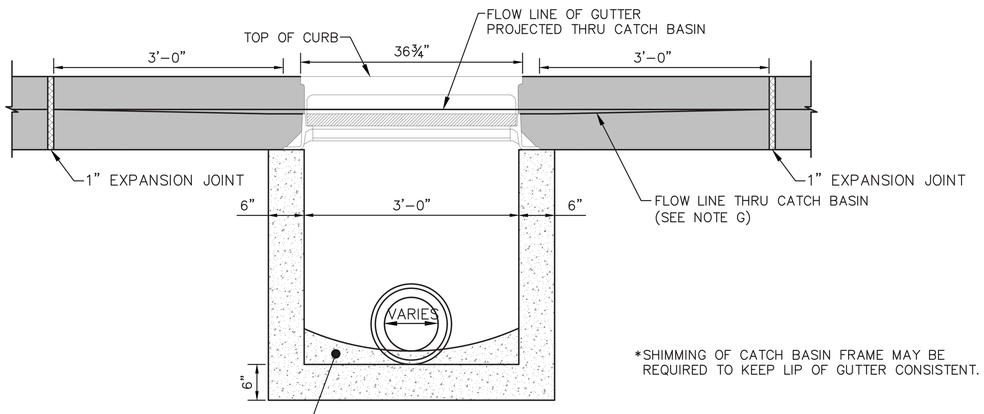
SHEET NO.
C1.1

TYPE 1 CATCH BASIN WITH TYPE 6 BARRIER CURB





SECTION B-B



SECTION A-A

*SHIMMING OF CATCH BASIN FRAME MAY BE REQUIRED TO KEEP LIP OF GUTTER CONSISTENT.

NOTES

A. THE FRAME SHALL BE EAST JORDAN IRON WORKS 7030Z1 OR NEENAH R–3067 OR EQUIVALENT FOR CATCH BASINS IN TYPE 6 BARRIER CURB. THE FRAME SHALL BE EQUAL TO NEENAH R–3067–C FOR CATCH BASINS IN TYPE 1 ROLL CURB AND GUTTER.

B. CURB BOX/HOOD, FOR TYPE 6 BARRIER CURB SHALL BE EAST JORDAN IRON WORKS TYPE T4 OR NEENAH R–3067 CURB BOX (3" RADIUS)

FOR CATCH BASINS IN THE AREA OF THE TYPE 1 ROLL CURB AND GUTTER THERE SHALL BE NO CURB BOX/HOOD.

C. STANDARD GRATE SHALL BE EAST JORDAN IRON WORKS TYPE M5, NEENAH TYPE R, OR EQUIVALENT. ALL BAR EDGES TO BE ROUNDED 1/8" RADIUS.

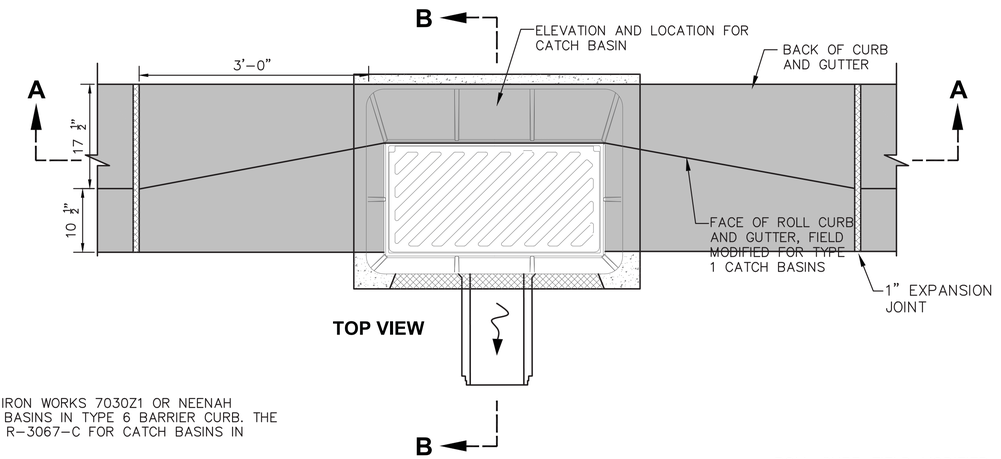
D. CONCRETE, CAST–IN–PLACE, TO BE ODOT QC MISC. (CEMENT ONLY – NO POZZOLAN MATERIAL). PRECAST CONSTRUCTION PERMITTED AND CONCRETE SHALL MEET THE REQUIREMENTS OF 706.13. KNOCKOUTS ARE REQUIRED IN PRECAST CONSTRUCTION. PRECAST WALLS SHALL HAVE A SUFFICIENT AMOUNT OF REINFORCEMENT TO PERMIT SHIPPING AND PLACEMENT WITHOUT DAMAGE.

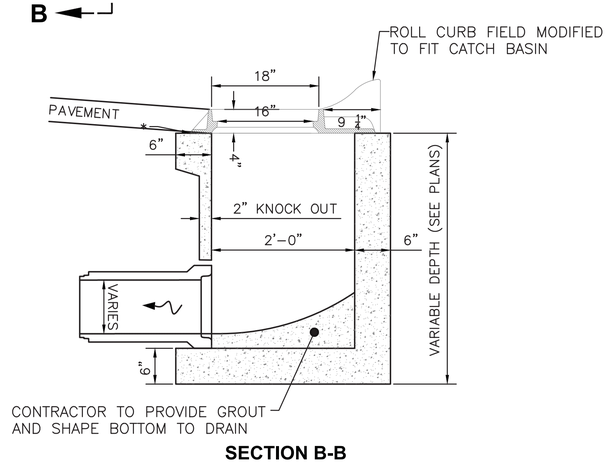
E. PIPE TO INTRUDE INTO CATCH BASIN 1" ONLY AND PIPE MUST BE CUT PARALLEL TO CATCH BASIN. USE NON–SHRINK GROUT AROUND PIPE TO SEAL BETWEEN PIPE AND CATCH BASIN.

E. DROP FLOW LINE 1/2" WITHIN BLOCK OUT OF COMBINED CURB AND GUTTER WHILE KEEPING LIP OF GUTTER CONSISTENT WITH TOP OF CURB.

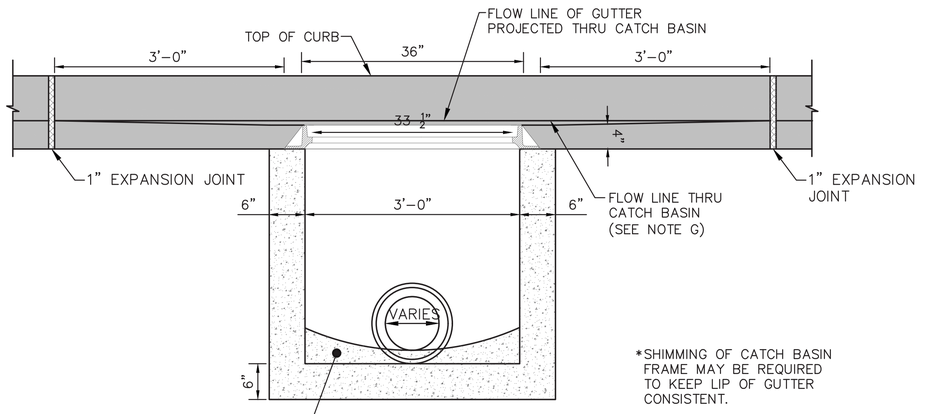
F. ALL GRATES SHALL BE BICYCLE SAFE.

TYPE 1 CATCH BASIN WITH TYPE 1 ROLL CURB AND GUTTER





SECTION B-B



SECTION A-A

*SHIMMING OF CATCH BASIN FRAME MAY BE REQUIRED TO KEEP LIP OF GUTTER CONSISTENT.

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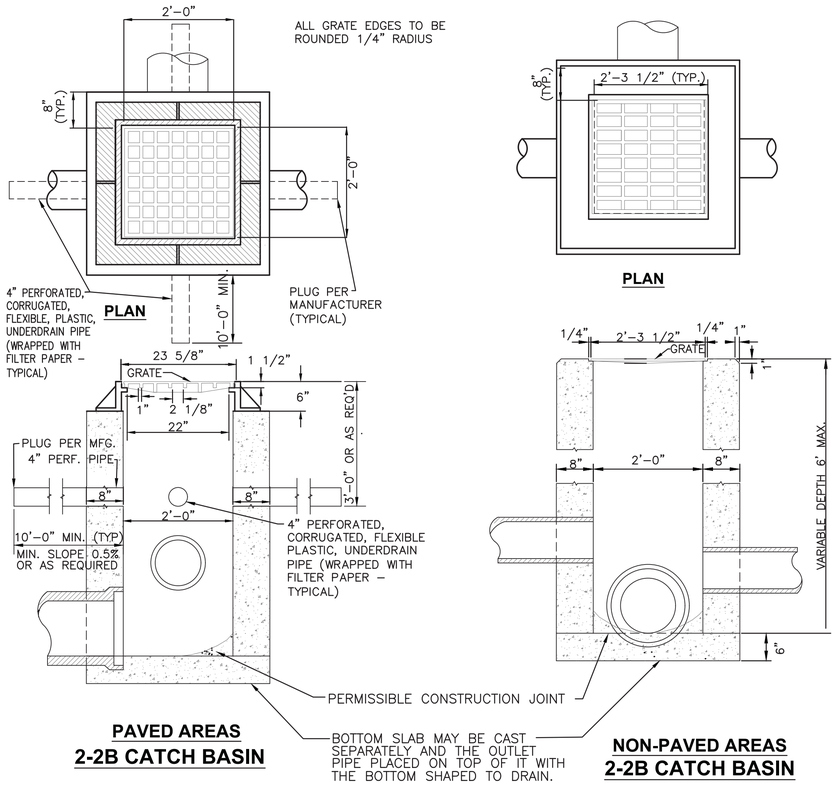


PAVED AREAS
2-2B CATCH BASIN

PLAN

NON-PAVED AREAS
2-2B CATCH BASIN

NOTE: ALL STRUCTURES AND RELATED WORK IS TO BE IN ACCORDANCE WITH ODOT SUPPLEMENTAL SPEC. 811.

CATCH BASIN NOTES

A. LOCATION AND ELEVATIONS WHEN GIVEN ON THE PLANS IS TOP CENTER OF THE GRATE. WHEN SIDE OPENINGS ARE PROVIDED, ELEVATION SHALL BE THE FLOW LINE OF THE SIDE INLET.

B. GRATE FOR NON-PAVED AREAS SHALL BE EAST JORDAN IRON WORKS 5110 TYPE M3 OR NEENAH CATALOG NO. R-4859-C OR EQUIVALENT.

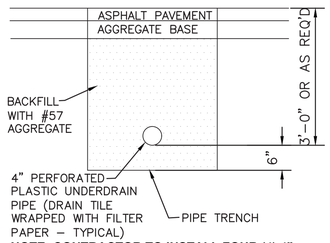
C. GRATE ELEVATION TO BE PLACED 4" TO 6" BELOW NORMAL DITCH RETURNING TO NORMAL 10' EACH SIDE OF BASIN.

D. CONCRETE, CAST-IN-PLACE, TO BE ODOT QC MISC. (CEMENT ONLY - NO POZZOLAN MATERIAL). ALL PRECAST CONCRETE SHALL MEET THE REQUIREMENTS OF 706.13 WITH 6% ± 2% AIR VOID CONTENT IN THE HARDENED CONCRETE AND BE MARKED WITH CATCH BASIN NUMBER. OPENINGS FOR PIPES SHALL BE O.D. +2" WHEN FABRICATED OR FIELD CUT.

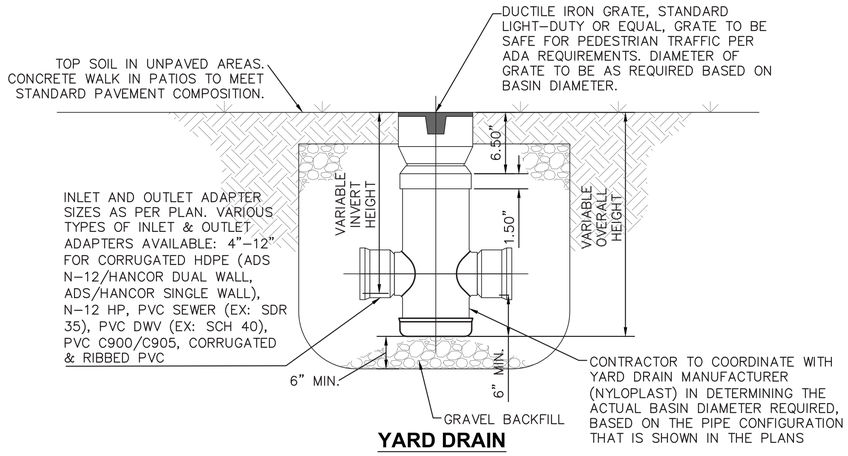
E. CATCH BASINS NOT PERMITTED IN PAVEMENT AREAS UNLESS USING A FRAME AND GRATE EQUIVALENT OF NEENAH CATALOG NO. R-3405 OR EAST JORDAN IRON WORKS NO. V-5250.

F. FOR PIPES OVER 18" REFER TO ODOT CATCH BASIN 2-3 AND 2-4. FOR SIDE INLETS REFER TO ODOT CATCH BASIN 2-2-A.

G. CARE SHALL BE TAKEN WHEN CONNECTING TO AN EXISTING CATCH BASIN TO KEEP OPENING AS MINIMAL AS POSSIBLE. IF POSSIBLE, SAW CUT OR USE ROTARY HAMMER FOR OPENING TO MINIMIZE DAMAGE TO CATCH BASIN. PIPE TO INTRUDE INTO CATCH BASIN 1" ONLY AND PIPE MUST BE CUT PARALLEL TO CATCH BASIN. USE NONSHRINK GROUT AROUND PIPE TO SEAL BETWEEN PIPE AND CATCH BASIN.



NOTE: CONTRACTOR TO INSTALL FOUR (4) 4" DIA. UNDERDRAINS X 10' LONG AT ALL CATCH BASINS (2-2B, 2-3, 2-4, TYPE 1 AND 1A) AND AT ALL MANHOLES WITH GRATES INSTALLED IN PAVED AREAS.



YARD DRAIN

NOTES

A. STANDARD OR CUSTOM DRAIN BASIN FOR VARIABLE INLET HEIGHT (NYOPLAST OR EQUAL).

B. GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.

C. CUSTOM DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS.

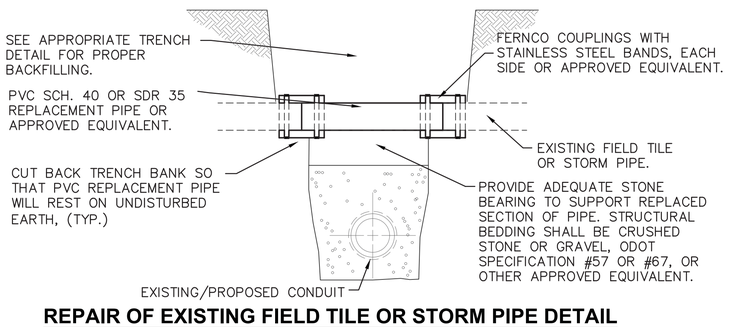
D. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC.

E. STANDARD DRAIN BASIN HAS FIXED ADAPTER LOCATIONS OF 0° & 180°. CUSTOM DRAIN BASIN ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE MANUFACTURER'S REQUIREMENTS.

F. DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.

G. CONTRACTOR TO INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

H. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL IF REQUIRED.



REPAIR OF EXISTING FIELD TILE OR STORM PIPE DETAIL

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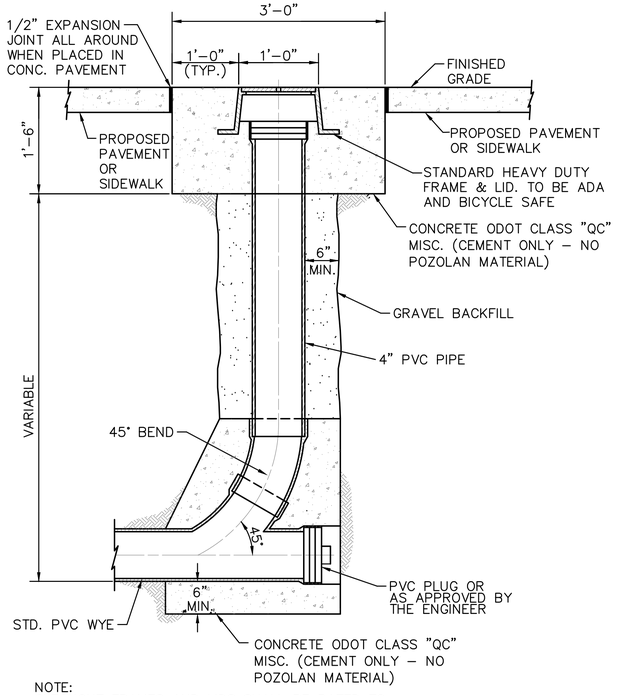
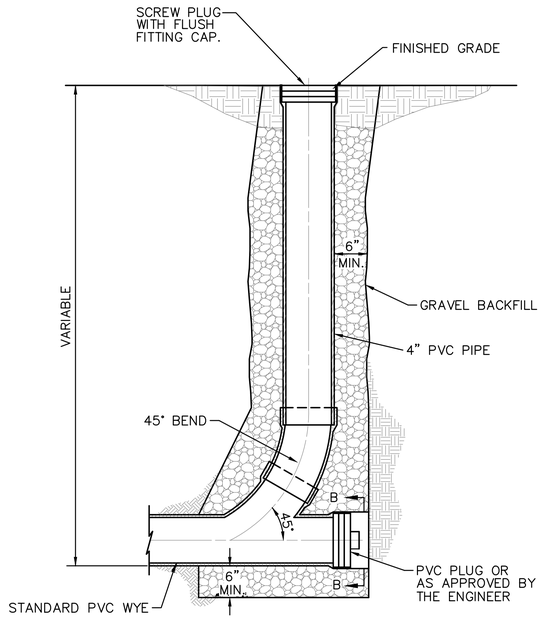


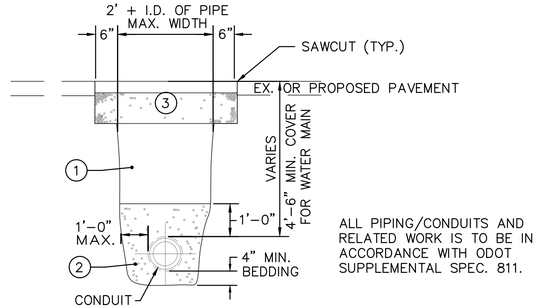
NOTE:
CLEANOUT FRAMES AND LIDS SHALL BE RATED TO HANDLE HEAVY DUTY TRAFFIC AND BE ADA AND BICYCLE SAFE. TO BE APPROVED BY OWNER.

CLEANOUT DETAIL IN PAVEMENT/WALK

NO SCALE



CLEANOUT DETAIL



ALL PIPING/CONDUITS AND RELATED WORK IS TO BE IN ACCORDANCE WITH ODOT SUPPLEMENTAL SPEC. 811.

TRENCH DETAIL

NO SCALE

NOTES

A. NO MATERIAL SHALL BE USED FOR BACKFILLING THAT CONTAINS STONES, ROCKS, ETC., GREATER THAN 3" IN DIAMETER.

B. ALL TRENCHES WITHIN 5' OF FUTURE OR EXISTING BUILDINGS, PAVEMENT EDGES, CURB, DRIVEWAYS OR WALKS SHALL BE BACKFILLED WITH STRUCTURAL MATERIAL.

C. THE OPEN ENDS OF ALL PIPES AND SPECIAL CASTINGS SHALL BE PLUGGED OR OTHERWISE CLOSED WITH A WATERTIGHT PLUG TO THE APPROVAL OF THE GOVERNING AGENCY BEFORE LEAVING THE WORK FOR THE NIGHT.

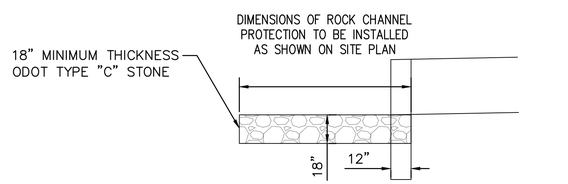
(1.) OFF–PAVEMENT BACKFILL CAN BE COMPACTED EXISTING NATIVE MATERIAL IN 12" MAXIMUM LIFTS OR AS APPROVED BY THE GOVERNING AGENCY. IN–PAVEMENT STRUCTURAL BACKFILL MATERIAL SHALL BE ODOT SPECIFICATION 304 CRUSHED STONE IN 6" MAXIMUM LIFTS UNLESS OTHERWISE APPROVED DEPENDING ON COMPACTING METHOD AND EQUIPMENT. IN EXISTING ROADWAYS BACKFILL SHALL CONSIST OF LOW DENSITY MORTAR BACKFILL.

(2.) STRUCTURAL BEDDING SHALL BE CRUSHED STONE OR GRAVEL, ODOT SPECIFICATION #57 OR #67, OR OTHER APPROVED EQUAL.

(3.) OFF PAVEMENT AREAS SHALL BE PROVIDED WITH A MINIMUM OF 6" OF TOPSOIL OVER THE COMPACTED NATIVE MATERIAL AND THEN SEEDED AND MULCHED PER ITEM 659.

IN–PAVEMENT AREAS.
SEE PAVEMENT COMPOSITION. WHERE THE EXISTING PAVEMENT IS THICKER, THE CONTRACTOR SHALL INCREASE THE PAVEMENT THICKNESS TO MATCH EXISTING.

△ DETENTION OUTLET DETAIL UPDATED AND MOVED TO C2.6



ROCK CHANNEL SECTION
ROCK CHANNEL PROTECTION DETAIL FOR PIPE OUTLET

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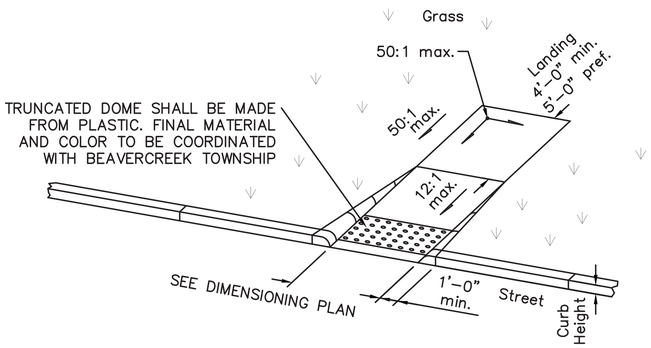


Type A2 (Perpendicular with returned curb)

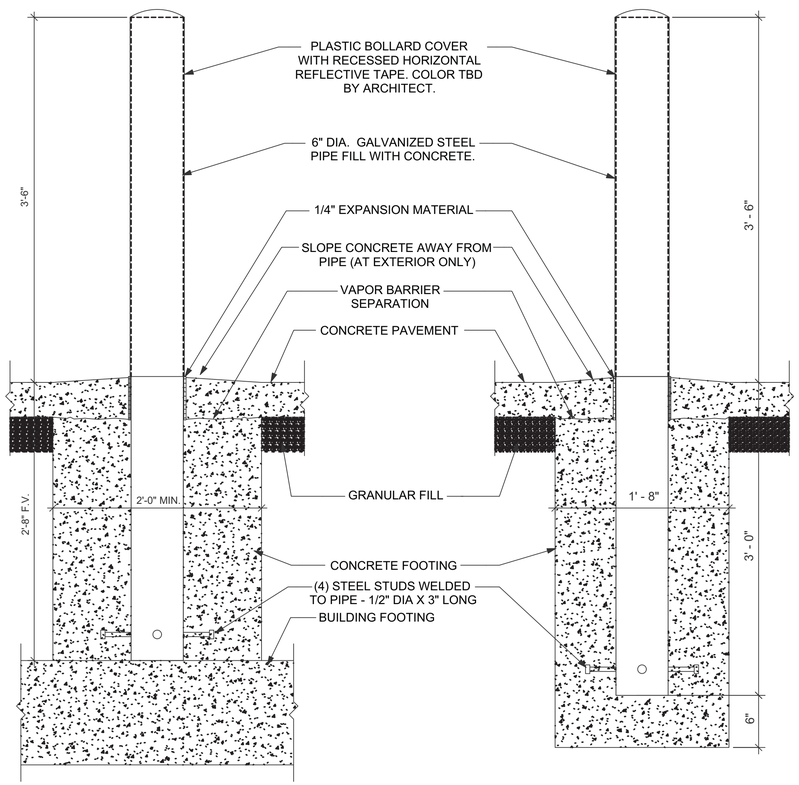
ADA RESERVED PARKING SIGN NOTES:

SIGNS: "RESERVED PARKING" SIGN (USDOT STANDARD R7-8 SIGN). THIS IS A STANDARD SIGN AND MAY BE ORDERED FROM ANY TRAFFIC SIGN SUPPLIER BY NUMBER. THE SIGN MUST BE SUPPLEMENTED WITH A "$250 FINE MINIMUM" SIGN (USDOT STANDARD R7-H8b SIGN) AND A "VAN ACCESSIBLE" SIGN (USDOT STANDARD R7-8a SIGN) AS APPLICABLE. CONFIRM WITH LOCAL REGULATIONS.

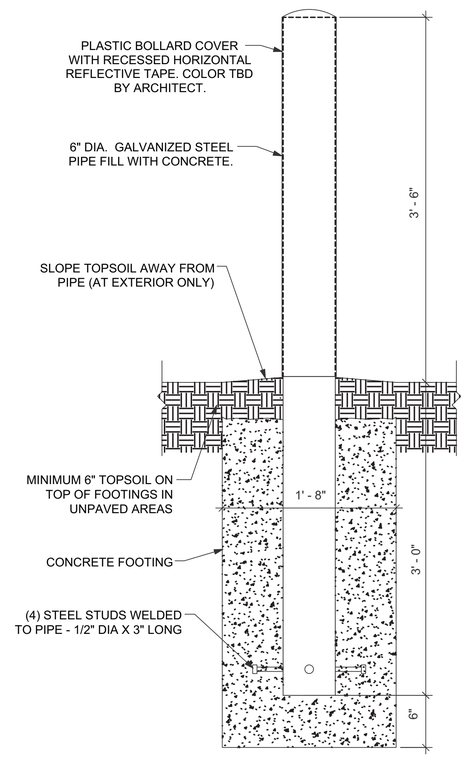
A U.S. DEPARTMENT OF TRANSPORTATION R7-8 (RESERVED PARKING) AND SUPPLEMENTAL SIGNS AS NOTED ABOVE MUST BE MOUNTED ON A PERMANENT POST SO THAT THE LOWER EDGE OF THE BOTTOM MOST SIGN IS AT LEAST FIVE FEET ABOVE THE PAVEMENT/GROUND. THE POST MUST BE MOUNTED IN THE CENTER OF THE ADA ACCESSIBLE PARKING SPACE, NO MORE THAN FIVE FEET FROM THE FRONT OF THE PARKING SPACE. ONE SIGN REQUIRED FOR EACH ACCESSIBLE PARKING SPACE. ALL WORK SHALL CONFORM WITH ALL FEDERAL, STATE AND LOCAL AMERICANS WITH DISABILITIES ACT (ADA) REGULATIONS AND STANDARDS AND LOCAL ACCESSIBILITY CODE.

ALL HANDICAP PARKING SPACES MUST ALSO HAVE A PAINTED INTERNATIONAL SYMBOL OF ACCESSIBILITY CENTERED IN THE PARKING STALL.

ADA RESERVED PARKING SIGN



AT BUILDING FOOTINGS



TYPICAL UNPAVED AREAS

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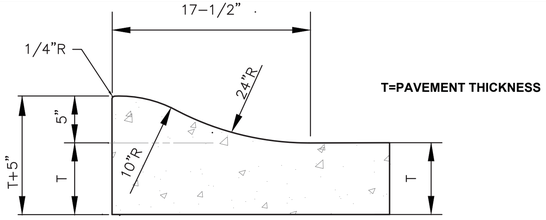


TYPE 1 ROLL CURB AND GUTTER

NOTES

A. CONCRETE AND WORK SHALL MEET THE REQUIREMENTS SET FORTH IN ODOT ITEM 609 CURBING.

B. CURBING SHALL HAVE CONTRACTION JOINTS EVERY 10' AND EXPANSION JOINTS EVERY 50'.

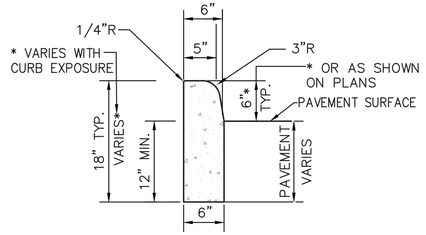
C. MINIMUM OF 6" OF ODOT 304 SHALL BE PLACED UNDER CURBING.

D. CURBING SHALL BE BACKFILLED IMMEDIATELY AFTER FORMS ARE REMOVED OR AS SOON AS PRACTICAL WHEN SLIPFORMING PRIOR TO OTHER CONSTRUCTION OPERATIONS.

E. PROVIDE BROOM FINISH AND EDGING TO ALL EXPOSED SURFACES.

F. APPLY WHITE PIGMENTED CURING COMPOUND ON ALL SURFACES INCLUDING BACK IMMEDIATELY AFTER FINISHING SURFACES. ANY OTHER METHOD OR TYPE OF CURING COMPOUND MUST BE PREAPPROVED.

G. ALL CONCRETE SHALL BE ODOT QC1 (CEMENT ONLY – NO POZZOLAN MATERIAL).



TYPE 6 BARRIER CURB

CURB NOTES

A. CONCRETE AND WORK SHALL MEET THE REQUIREMENTS SET FORTH IN ODOT ITEM 609 CURBING.

B. CURBING SHALL HAVE CONTRACTION JOINTS EVERY 10' AND EXPANSION JOINTS EVERY 100'.

C. MINIMUM OF 6" OF ODOT 304 SHALL BE PLACED UNDER CURBING.

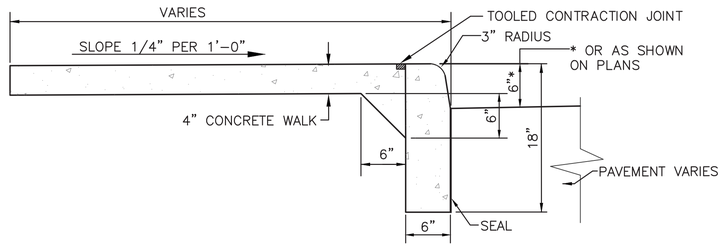
D. CURBING SHALL BE BACKFILLED IMMEDIATELY AFTER FORMS ARE REMOVED OR AS SOON AS PRACTICAL WHEN SLIPFORMING PRIOR TO OTHER CONSTRUCTION OPERATIONS.

E. PROVIDE BROOM FINISH AND EDGING TO ALL EXPOSED SURFACES.

F. APPLY WHITE PIGMENTED CURING COMPOUND ON ALL SURFACES INCLUDING BACK IMMEDIATELY AFTER FINISHING SURFACES. ANY OTHER METHOD OR TYPE OF CURING COMPOUND MUST BE PREAPPROVED.

G. ALL CONCRETE SHALL BE ODOT QC MISC. (CEMENT ONLY – NO POZZOLAN MATERIAL).

H. CONCRETE TO INCLUDE 1.5 LBS/C.Y. OF FIBERSTRAND 150, 3/4" LENGTH FIBRILLATED MACROFIBERS OR APPROVED EQUIVALENT MEETING ASTM C 1116 TYPE 3, MINIMUM 3/4" LENGTH, ASPECT RATIO 50 TO 90. CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES.



COMBINED CURB AND SIDEWALK DETAIL

NOTES

A. WALK TO BE POURED ON 4" MIN. COMPACTED STRUCTURAL BEDDING.

B. PROVIDE BROOM FINISH TO ALL EXPOSED SURFACES.

C. CONCRETE SHALL CONFORM TO ODOT ITEM 499 CONCRETE. CONCRETE WORK SHALL CONFORM TO ODOT ITEM 608, UNLESS OTHERWISE SPECIFIED WITHIN.

D. PROVIDE EDGING AROUND ALL EXPOSED SURFACES.

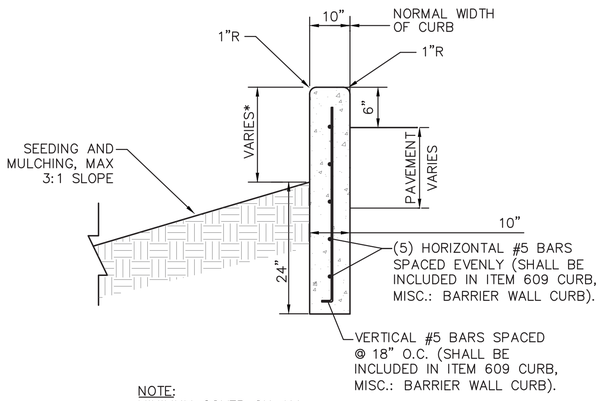
E. USE WHITE PIGMENTED CURING COMPOUND IMMEDIATELY AFTER FINISHING SURFACES. ANY OTHER METHOD OR TYPE OF CURING COMPOUND MUST BE PREAPPROVED.

F. ALL CONCRETE SHALL BE ODOT QC MISC. (CEMENT ONLY – NO POZZOLAN MATERIAL).

G. PROPOSED CONCRETE SIDEWALK SHALL BE JOINTED AS CLOSE TO SQUARE AS POSSIBLE. JOINT SPACING MAY VARY SLIGHTLY DEPENDING ON THE LENGTH AND WIDTH OF THE PROPOSED SIDEWALK AREAS. JOINT SPACING SHALL TYPICALLY RANGE FROM 4'X4' TO 10'X10'. IN ALL CASES THE SIDEWALK SHALL BE JOINTED SO THAT THE MAXIMUM ASPECT RATIO (OF PANEL LENGTH TO WIDTH) OF THE JOINTING IS 1.25:1 OR LESS. CONTRACTOR TO VERIFY METHOD AND TYPE OF CONTROL JOINTING WITH OWNER PRIOR TO PERFORMING WORK.

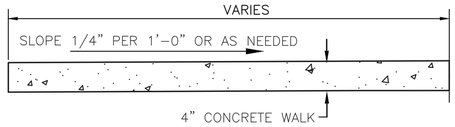
H. CURB/SIDEWALK SHALL HAVE EXPANSION JOINTS EVERY 100'.

I. CONCRETE TO INCLUDE 1.5 LBS/C.Y. OF FIBERSTRAND 150, 3/4" LENGTH FIBRILLATED MICROFIBERS OR APPROVED EQUIVALENT MEETING ASTM C 1116 TYPE 3, MINIMUM 3/4" LENGTH, ASPECT RATIO 50 TO 90. CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES.



NOTE:
MINIMUM COVER ON ALL REBAR SHALL BE 3".

CURB, MISC.: BARRIER WALL CURB



SIDEWALK DETAIL

NOTES

A. WALK TO BE POURED ON 4" MIN. COMPACTED STRUCTURAL BEDDING.
B. PROVIDE BROOM FINISH TO ALL EXPOSED SURFACES.
C. CONCRETE SHALL CONFORM TO ODOT ITEM 499 CONCRETE. CONCRETE WORK SHALL CONFORM TO ODOT ITEM 608, UNLESS OTHERWISE SPECIFIED WITHIN.
D. PROVIDE EDGING AROUND ALL EXPOSED SURFACES.
E. USE WHITE PIGMENTED CURING COMPOUND IMMEDIATELY AFTER FINISHING SURFACES. ANY OTHER METHOD OR TYPE OF CURING COMPOUND MUST BE PREAPPROVED.
F. ALL CONCRETE SHALL BE ODOT QC MISC. (CEMENT ONLY – NO POZZOLAN MATERIAL).
G. PROPOSED CONCRETE SIDEWALK SHALL BE JOINTED AS CLOSE TO SQUARE AS POSSIBLE. JOINT SPACING MAY VARY SLIGHTLY DEPENDING ON THE LENGTH AND WIDTH OF THE PROPOSED SIDEWALK AREAS. JOINT SPACING SHALL TYPICALLY RANGE FROM 4'X4' TO 10'X10'. IN ALL CASES THE SIDEWALK SHALL BE JOINTED SO THAT THE MAXIMUM ASPECT RATIO (OF PANEL LENGTH TO WIDTH) OF THE JOINTING IS 1.25:1 OR LESS. CONTRACTOR TO VERIFY METHOD AND TYPE OF CONTROL JOINTING WITH OWNER PRIOR TO PERFORMING WORK.
H. SIDEWALK SHALL HAVE EXPANSION JOINTS EVERY 100'.
I. CONCRETE TO INCLUDE 1.5 LBS/C.Y. OF EITHER EUCLID CHEMICAL FIBERSTRAND 150, OR APPROVED EQUIVALENT MEETING ASTM C 1116 TYPE 3, MINIMUM 3/4" LENGTH, ASPECT RATIO 50 TO 90. CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES.

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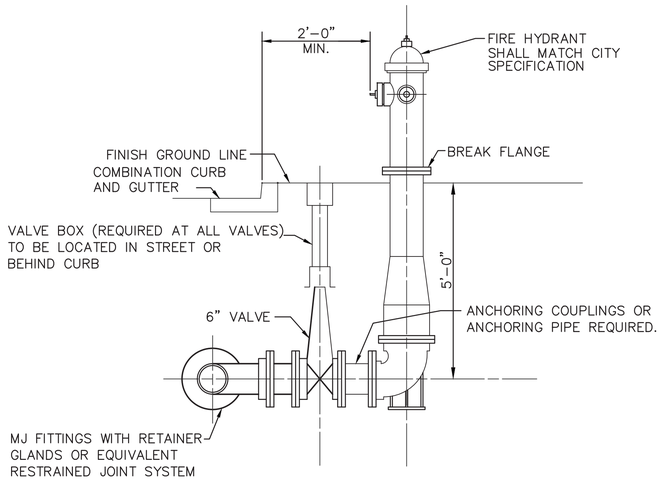
TITLE
GENERAL DETAILS

SHEET NO.
C2.4

FIRE HYDRANT ASSEMBLY

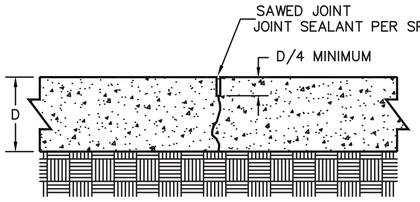
NOTES

A. FIRE HYDRANTS SHALL MATCH EXISTING PRESENT ON SITE, WITH (2) 2 1/2" HOSE NOZZLES, (1) 4 1/2" PUMPER NOZZLE, NATIONAL STANDARDS THREADS CONFORMING TO AWWA CCW TO OPEN, 1 1/4" PENTAGON OPERATING NUT, BREAK FLANGES 3" ABOVE GRADE.
B. GATE VALVES SHALL BE AWWA C-509, RESILIENT WEDGE, NONRISING STEM, MECHANICAL JOINT, 150 PSI WORKING PRESSURE, CCW TO OPEN WITH ARROW INDICATING OPEN DIRECTION, MUELLER OR EQUIVALENT.
C. VALVE BOXES SHALL BE 3-PIECE CAST IRON 6" DIAMETER NOMINAL, ADJUSTABLE SCREW TYPE, COVER MARKED "WATER", DOMESTIC MADE ONLY.
D. ALL FITTINGS TO BE RESTRAINED.
E. ALL FITTINGS TO BE AWWA C-153 DUCTILE IRON, COMPACT.
F. ALL VALVES AND HYDRANTS SHALL OPEN LEFT BY TURNING IN A COUNTERCLOCKWISE DIRECTION.
G. CONTRACTOR TO FACE HYDRANT.
H. WATER MATERIAL SHALL BE DUCTILE IRON PIPE CLASS 52, AWWA C-151, SLIP-ON JOINTS WITH RUBBER GASKETS, OR PVC-150, DR-18, AWWA C-900 WITH MEGALUG RESTRAINS OR EQUIVALENT.
I. THE LAYING OF PIPE ON EXISTING DIRT WITH THE BELLS CUT OUT, SHALL NOT BE PERMITTED.
J. THE OPEN ENDS OF ALL PIPES AND SPECIAL CASTINGS SHALL BE PLUGGED OR OTHERWISE CLOSED WITH A WATERTIGHT PLUG TO THE APPROVAL OF THE CITY BEFORE LEAVING THE WORK FOR THE NIGHT.

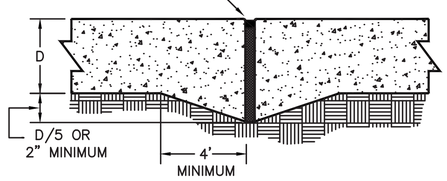


SECTION VIEW

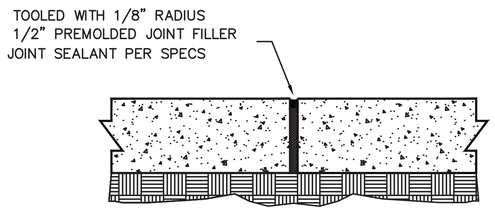
General Notes For Pavement Joints



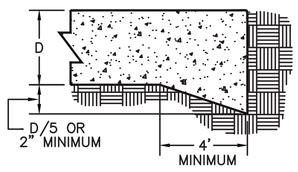
CONTRACTION JOINT



ISOLATION JOINT w/ THICKENED EDGE

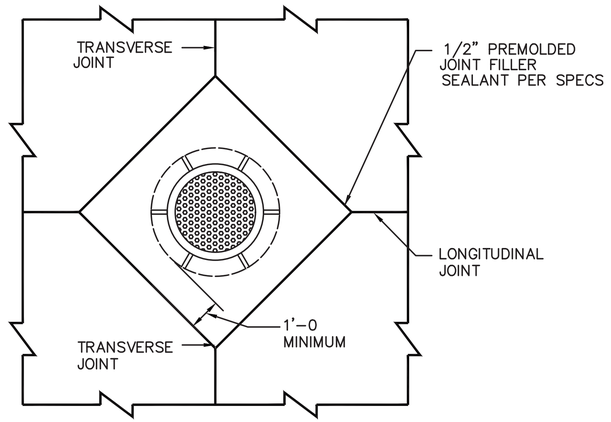


ISOLATION JOINT

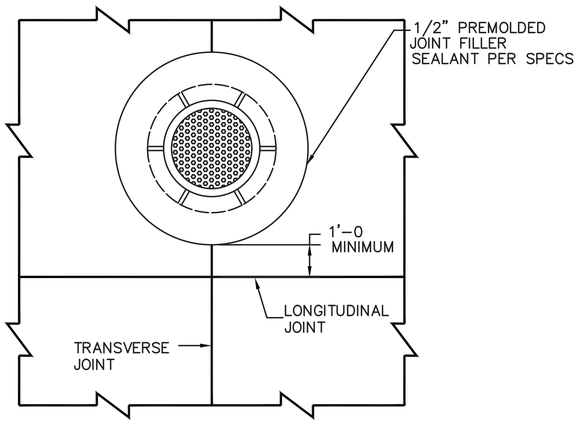


THICKENED EDGE

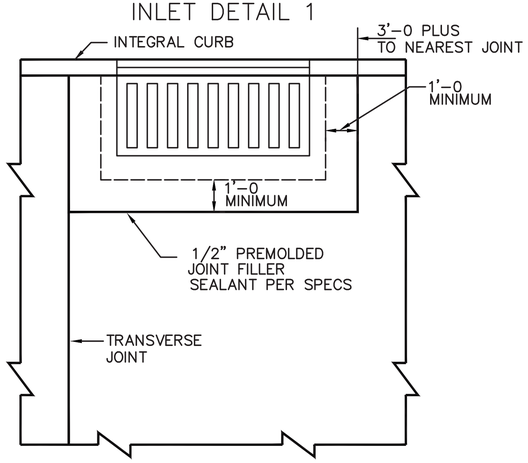
MANHOLE DETAIL 2



MANHOLE DETAIL 1



INLET DETAIL 1



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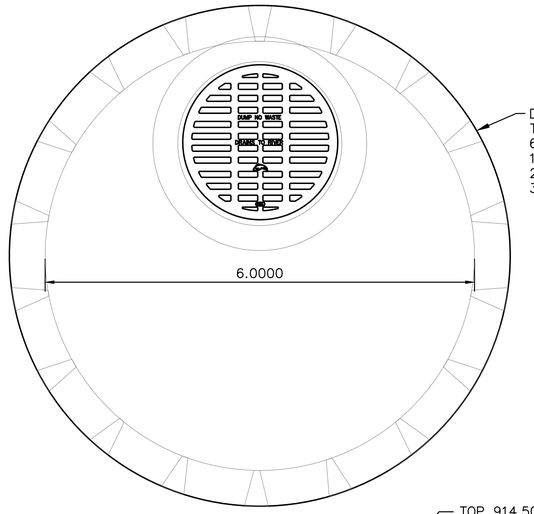
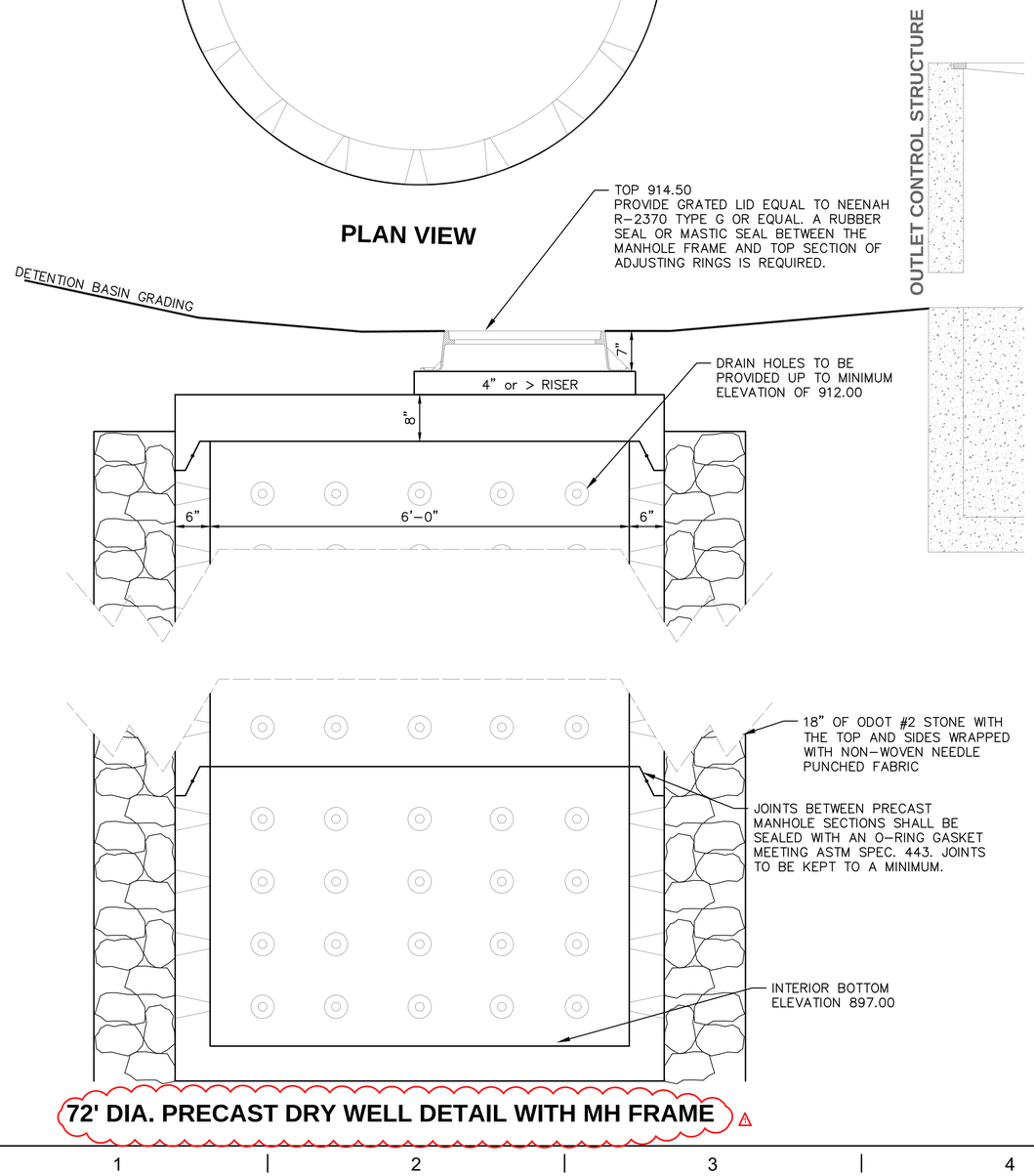
TITLE
GENERAL DETAILS

SHEET NO.
C2.5

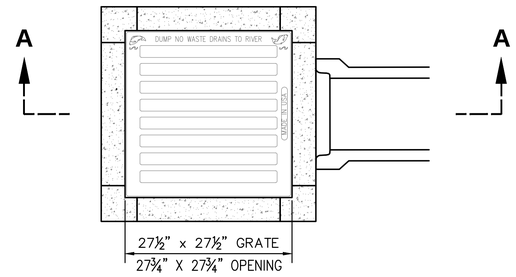


DRAIN HOLES 4" TO 1½" TAPERED AT 0°, 20°, 40°, 60°, 80°, 100°, 120°, 140°, 160°, 180°, 200°, 220°, 240°, 260°, 280°, 300°, 320°, AND 340°

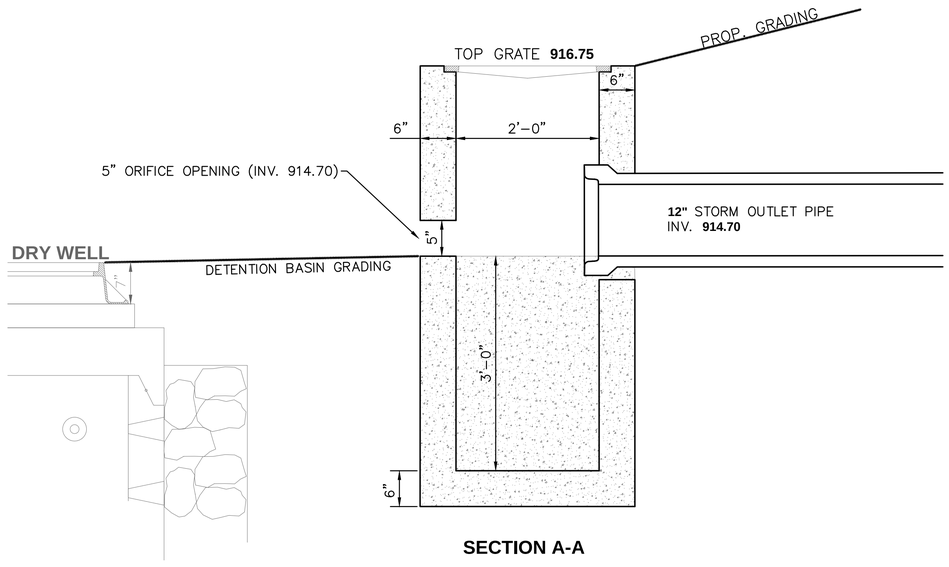
PLAN VIEW



72' DIA. PRECAST DRY WELL DETAIL WITH MH FRAME △



PLAN VIEW



SECTION A-A

A. GRATE SHALL BE NEENAH CATALOG NO. R-4871 (TYPE B GRATE) OR EQUIVALENT. CONTRACTOR SHALL FASTEN/BOLT DOWN GRATE TO STRUCTURE TO ENSURE GRATE IS SECURELY FASTENED IN PLACE.

B. PRECAST STRUCTURE CONSTRUCTION IS REQUIRED, UNLESS OTHERWISE APPROVED, AND CONCRETE SHALL MEET THE REQUIREMENTS OF 706.13. CAST-IN-PLACE CONCRETE IN THE FIELD WILL BE ALLOWED FOR SUMP ELIMINATION/ANTI-FLOATATION.

2-2B CATCH BASIN DETENTION OUTLET STRUCTURE △

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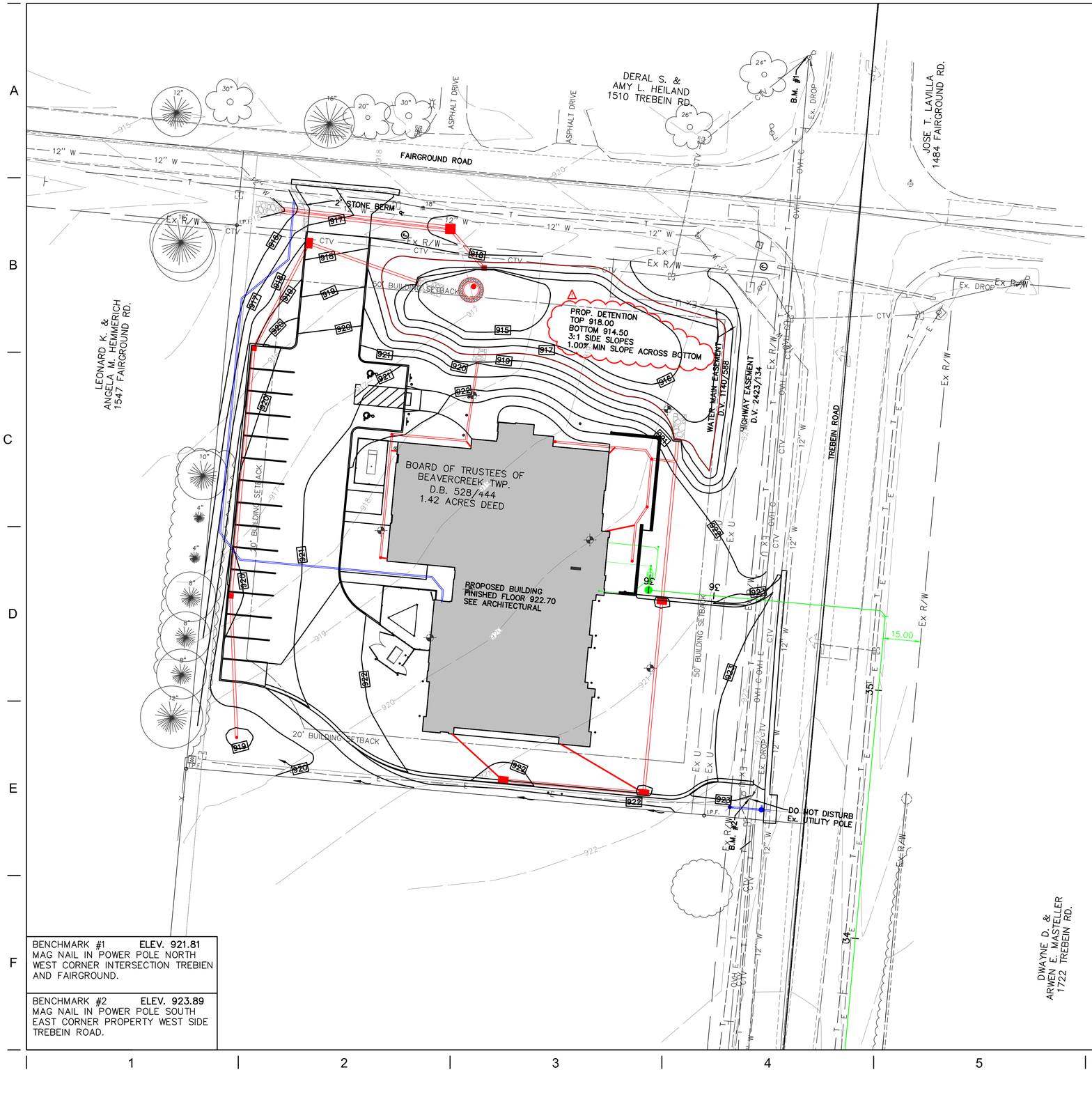
TITLE
GENERAL DETAILS

SHEET NO.
C2.6



SCALE IN FEET
0 10 20 40

NOTES:
CONTRACTOR TO VERIFY EXACT LOCATION, DEPTH AND SIZE OF UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF ANY CONFLICTS PRIOR TO THE INSTALLATION OF UTILITIES.

ALL UTILITIES ARE TO BE INSTALLED PER GREENE COUNTY STANDARDS.

CONTRACTOR TO TIE INTO EXISTING PAVEMENT ELEVATIONS AS REQUIRED WHEREVER NEW PAVEMENT ABUTS UP TO EXISTING PAVEMENT TO ENSURE A SMOOTH TRANSITION. ALL EX. PAVEMENT ELEVATIONS GIVEN ARE APPROXIMATED AND SHALL BE FIELD VERIFIED. CONTRACTOR SHALL ALSO ENSURE THAT A SMOOTH TRANSITION IS PROVIDED WHEREVER PROPOSED GRADES MEET EXISTING GRADES THROUGHOUT THE SITE.

LEGEND

- —923— EXISTING CONTOURS
- 923 PROPOSED CONTOURS
- PROPOSED STORM SEWER
- PROPOSED EDGE PAVEMENT
- PROPOSED CURB

BENCHMARK #1	ELEV. 921.81
MAG NAIL IN POWER POLE NORTH WEST CORNER INTERSECTION TREBIEN AND FAIRGROUND.	
BENCHMARK #2	ELEV. 923.89
MAG NAIL IN POWER POLE SOUTH EAST CORNER PROPERTY WEST SIDE TREBEIN ROAD.	

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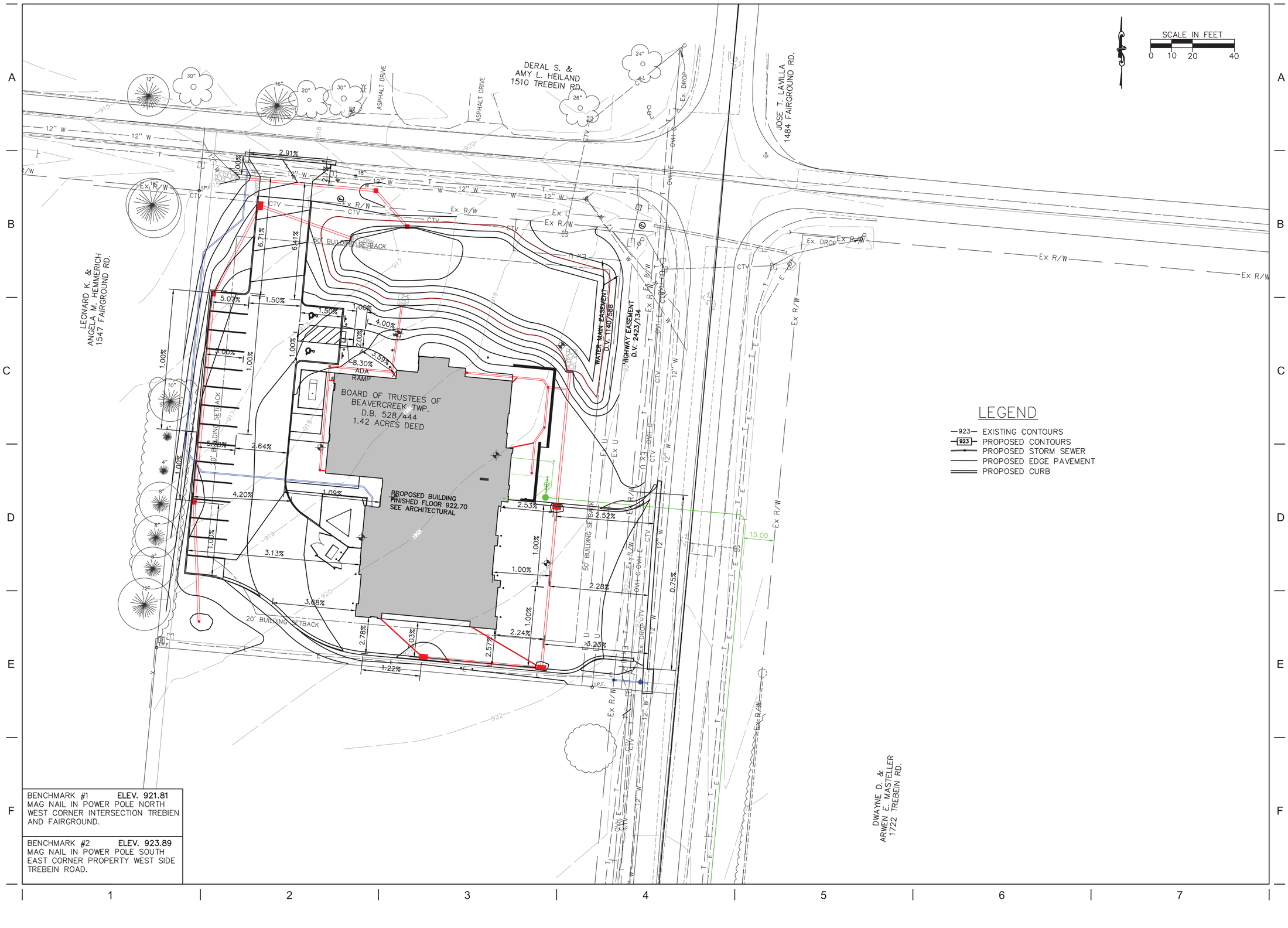
TITLE
GRADING PLAN

SHEET NO.
C3.0



BENCHMARK #1	ELEV. 921.81
MAG NAIL IN POWER POLE NORTH WEST CORNER INTERSECTION TREBIEN AND FAIRGROUND.	
BENCHMARK #2	ELEV. 923.89
MAG NAIL IN POWER POLE SOUTH EAST CORNER PROPERTY WEST SIDE TREBEIN ROAD.	

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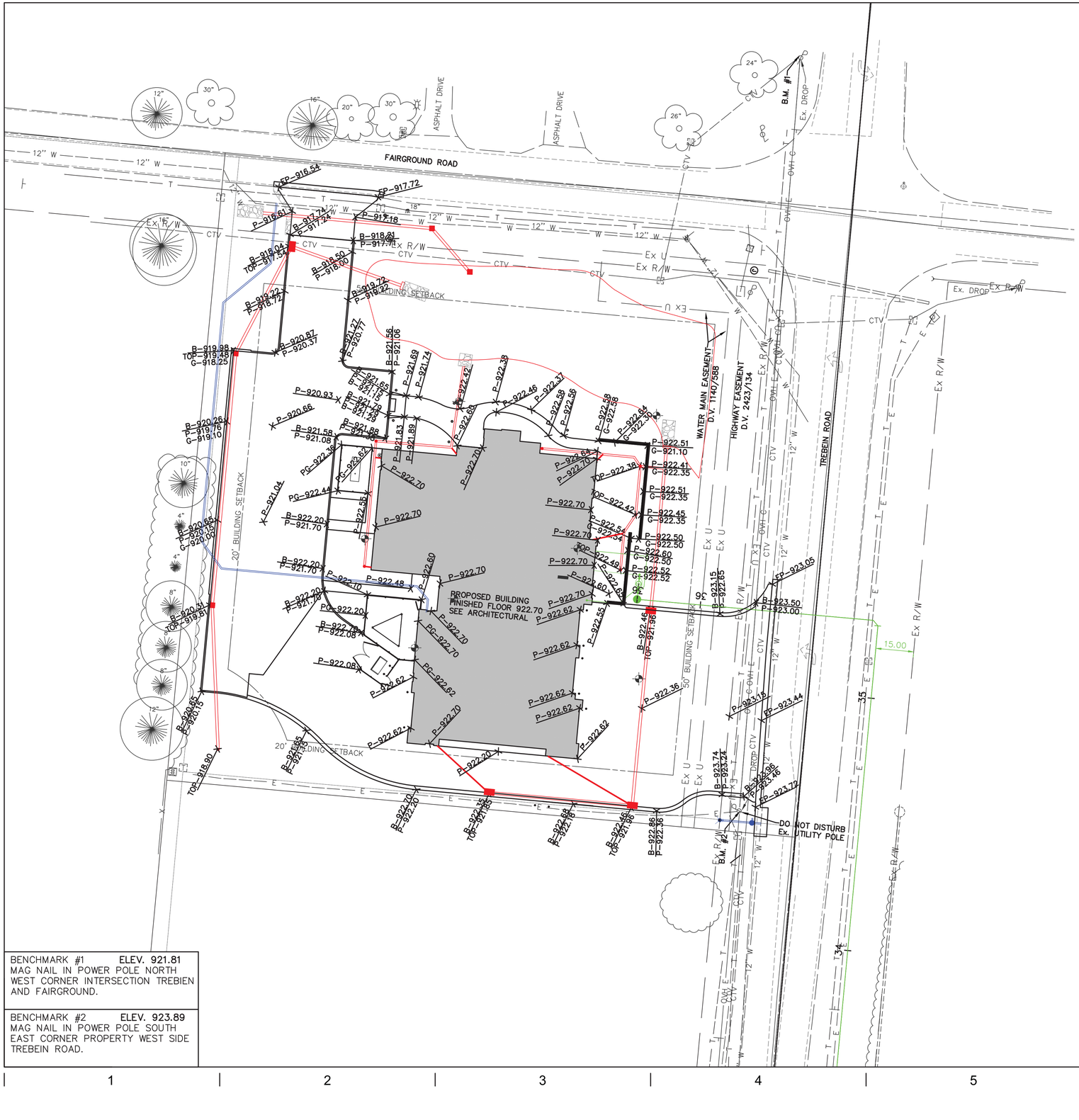
TITLE
GRADING SLOPES

SHEET NO.
C3.1



SCALE IN FEET
0 10 20 40

LEGEND

EP = EXISTING PAVEMENT ELEVATION
P = PROPOSED PAVEMENT ELEVATION
B = PROPOSED TOP OF CURB ELEVATION
TOP = PROPOSED TOP OF GRATE ELEVATION
PG = PROPOSED FINISHED GRAVEL ELEVATION

NOTE:
CONTRACTOR TO TIE INTO EXISTING PAVEMENT ELEVATIONS AS REQUIRED WHERE EVER NEW PAVEMENT ABUTS UP TO EXISTING PAVEMENT TO ENSURE A SMOOTH TRANSITION. ALL EX. PAVEMENT ELEVATIONS GIVEN ARE APPROXIMATED AND SHALL BE FIELD VERIFIED. CONTRACTOR SHALL ALSO ENSURE THAT A SMOOTH TRANSITION IS PROVIDED WHERE EVER PROPOSED GRADES MEET EXISTING GRADES THROUGHOUT THE SITE.

CONTRACTOR TO VERIFY PAVEMENT ELEVATIONS AND GRADING IN PATIOS WITH OWNER REPRESENTATIVE PRIOR TO POURING CONCRETE IN THE AREA.

BENCHMARK #1	ELEV. 921.81
MAG NAIL IN POWER POLE NORTH WEST CORNER INTERSECTION TREBIEN AND FAIRGROUND.	
BENCHMARK #2	ELEV. 923.89
MAG NAIL IN POWER POLE SOUTH EAST CORNER PROPERTY WEST SIDE TREBEIN ROAD.	

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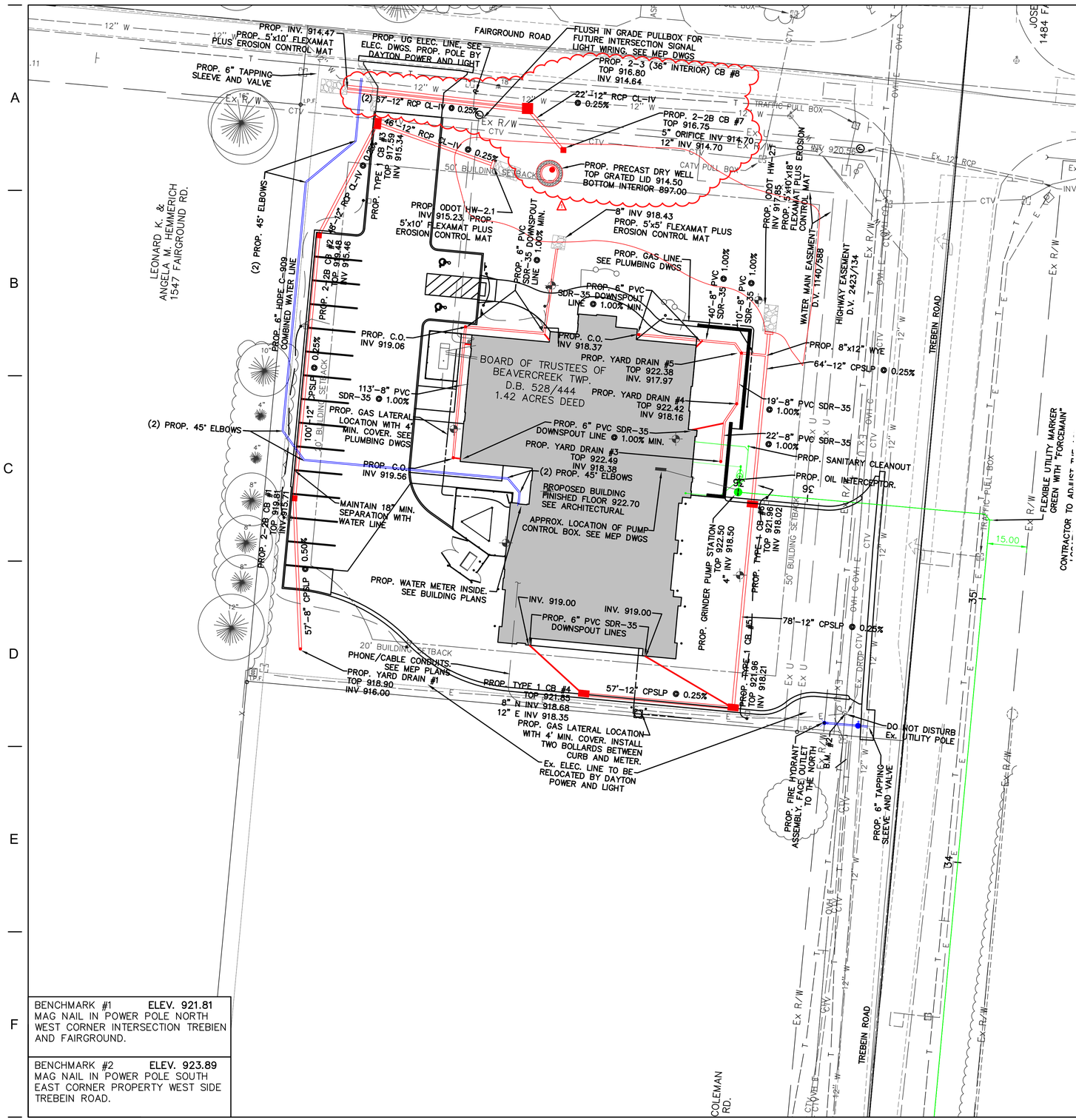
TITLE
PVMT. ELEV PLAN

SHEET NO.
C4.0



BENCHMARK #1	ELEV. 921.81
MAG NAIL IN POWER POLE NORTH WEST CORNER INTERSECTION TREBIEN AND FAIRGROUND.	

BENCHMARK #2	ELEV. 923.89
MAG NAIL IN POWER POLE SOUTH EAST CORNER PROPERTY WEST SIDE TREBEIN ROAD.	

NOTES:
CONTRACTOR TO VERIFY EXACT LOCATION, DEPTH AND SIZE OF UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF ANY CONFLICTS PRIOR TO THE INSTALLATION OF UTILITIES.

ALL UTILITIES TO BE INSTALLED PER GREENE COUNTY STANDARDS.

CONTRACTOR TO VERIFY AND LOCATE WHERE STORM, SANITARY, AND WATER LATERALS AND ALL OTHER PROPOSED UTILITY SERVICES TIE INTO THE PROPOSED BUILDING PER BUILDING PLANS. CONTRACTOR SHALL ALSO VERIFY THE SIZES AND TYPES OF ALL LATERALS AND HOW THEY MAY TIE INTO THE PROPOSED BUILDINGS.

CONTRACTOR TO FOLLOW ALL PERMIT REQUIREMENTS AND SPECIFICATIONS TO INSTALL THE PROPOSED UTILITIES INCLUDING COORDINATING THE INSTALLATION WITH LOCAL OFFICIALS AS NEEDED AND/OR REQUIRED.

CONTRACTOR TO COORDINATE ALL WORK WITH THE OWNER AS NEEDED/REQUIRED.

DOWNSPOUT PIPING NOTE:
THE CONTRACTOR SHALL CONNECT ANY DOWNSPOUTS AS SHOWN ON THE SITE PLAN OR TO THE CLOSEST STORM PIPING OR CATCH BASINS USING A MINIMUM SIZE OF 6" CPSLP OR PVC SDR-35 SEWER OR APPROVED EQUAL.

COORDINATE EXACT DOWNSPOUT LOCATIONS WITH ROOF PLAN.

BASIS OF DESIGN: PIEDMONT MANUFACTURING, PIEDMONT PIPE DOWNSPOUT – MODEL SO. REFER TO SHEET A5.8 FOR DETAILS

EXISTING UTILITY NOTES:
CONTRACTOR SHALL DETERMINE THE TYPE OF SERVICE FOR ALL EXISTING UNDERGROUND LINES THAT ARE ENCOUNTERED DURING CONSTRUCTION AND SHALL ENSURE THE FOLLOWING:

1. THAT ALL EXISTING STORM LINES OR ANY OTHER EXISTING CLEAN WATER DRAINAGE LINES THAT ARE DISCOVERED AND/OR ENCOUNTERED DURING CONSTRUCTION AND ARE OR NEED TO REMAIN IN SERVICE ARE ROUTED AS NEEDED TO ENSURE THAT THEY ARE CONNECTED INTO THE PROPOSED OR EXISTING STORM SEWER.

2. THAT ALL EXISTING SANITARY LINES THAT ARE DISCOVERED AND/OR ENCOUNTERED DURING CONSTRUCTION AND ARE TO REMAIN IN SERVICE ARE ROUTED AS NEEDED TO ENSURE THAT THEY ARE CONNECTED INTO ACTIVE EXISTING SANITARY SEWER LINES/STRUCTURES OR INTO PROPOSED SANITARY SEWER LINES/STRUCTURES.

3. THAT ALL EXISTING WATER LINES THAT ARE DISCOVERED AND/OR ENCOUNTERED DURING CONSTRUCTION AND ARE TO REMAIN IN SERVICE ARE ROUTED AS NEEDED TO ENSURE THAT THEY ARE CONNECTED INTO ACTIVE EXISTING WATER LINES OR INTO PROPOSED WATER LINES.

ALL WORK TO BE PER AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND TO BE WITNESSED BY THE OWNER'S REP. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

UNKNOWN EXISTING UNDERGROUND UTILITIES:
CONTRACTOR TO BE AWARE THERE MAY BE OTHER UNKNOWN SERVICES OR UNKNOWN UNDERGROUND UTILITIES OR ITEMS WHICH MAY BE LOCATED WITHIN THE SITE AND MAY REQUIRE REMOVAL OR REROUTING IN ORDER TO PERFORM THE PROPOSED PROJECT. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY OF ANY UNKNOWN UNDERGROUND UTILITIES OR OTHER ITEMS WHICH ARE ENCOUNTERED AND WORK WITH THE OWNER TO DECIDE HOW THESE ITEMS SHOULD BE HANDLED.

GAS, ELECTRIC, COMMUNICATION CONFLICT NOTE:
CONTRACTOR TO LOWER/DIP THESE UTILITIES AS NEEDED TO AVOID CONFLICTS WITH ANY PROPOSED OR EXISTING SANITARY OR STORM OR WATER LINES THEY MAY CONFLICT WITH. IF THESE UTILITY LINES CONFLICT WITH ANY PROPOSED OR EXISTING WATERLINES THEN CONTRACTOR TO DETERMINE WHETHER TO LOWER/DIP THE WATERLINE OR LOWER/DIP THE GAS/ELECTRIC/COMMUNICATION LINE(S). CONTRACTOR MAY NEED TO CONSULT WITH AND OBTAIN OWNER'S APPROVAL AS TO WHICH UTILITY WILL BE LOWERED PRIOR TO PERFORMING THIS WORK. COST OF THIS ITEM SHALL BE INCLUDED IN THE COST OF THE CONTRACTOR'S OVERALL LUMP SUM BID FOR THE PROJECT.

ELECTRICAL/MECHANICAL NOTE:
CONTRACTOR SHALL REFER TO THE ELECTRICAL/MECHANICAL DRAWINGS FOR DEMOLITION AND/OR INSTALLATION INFO. OF ALL EXISTING AND PROPOSED ELECTRICAL/MECHANICAL ITEMS FOR THE SITE AND/OR HOW THESE ITEMS ARE TO BE HANDLED AND ADDRESSED.

WATER MAIN CROSSING SEPARATION NOTE:
WHENEVER A SANITARY OR STORM SEWER AND WATER LINE MUST CROSS, THE SEWER AND WATER SHALL BE LAID AT SUCH AN ELEVATION THAT THERE IS AT LEAST 18" OF SEPARATION BETWEEN THE OUTSIDE WALLS OF THE TWO PIPES. IF REQUIRED, CONTRACTOR SHALL LOWER/DIP THE WATER MAIN AS NEEDED TO OBTAIN THE 18" MINIMUM SEPARATION DISTANCE. IF IT IS ABSOLUTELY IMPOSSIBLE TO MAINTAIN THE 18" VERTICAL SEPARATION, THE SANITARY SEWER SHALL BE CONSTRUCTED OF WATER LINE TYPE MATERIALS WHICH WOULD BE ABLE TO WITHSTAND A 100 PSI PRESSURE TEST (NOTE: DO NOT PRESSURE TEST SANITARY SEWER TO 100 PSI). THESE REQUIREMENTS WILL EXTEND FOR THE DISTANCE OF THE ENTIRE SPAN. NO CHANGE OF MATERIALS ARE ALLOWED MID-SPAN.

AT CROSSINGS, THE WATER MAIN SHALL HAVE A MINIMUM VERTICAL DISTANCE OF 18" FROM STORM AND SANITARY SEWERS. ALSO ONE FULL LENGTH OF WATER MAIN SHALL BE LOCATED SO THE JOINTS ARE AS FAR FROM THE STORM AND SANITARY SEWERS AS POSSIBLE.

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Beavrcreek Township

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ISSUE:

NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION
1	09/11/2020	BULLETIN #1

DATE	04/03/2020
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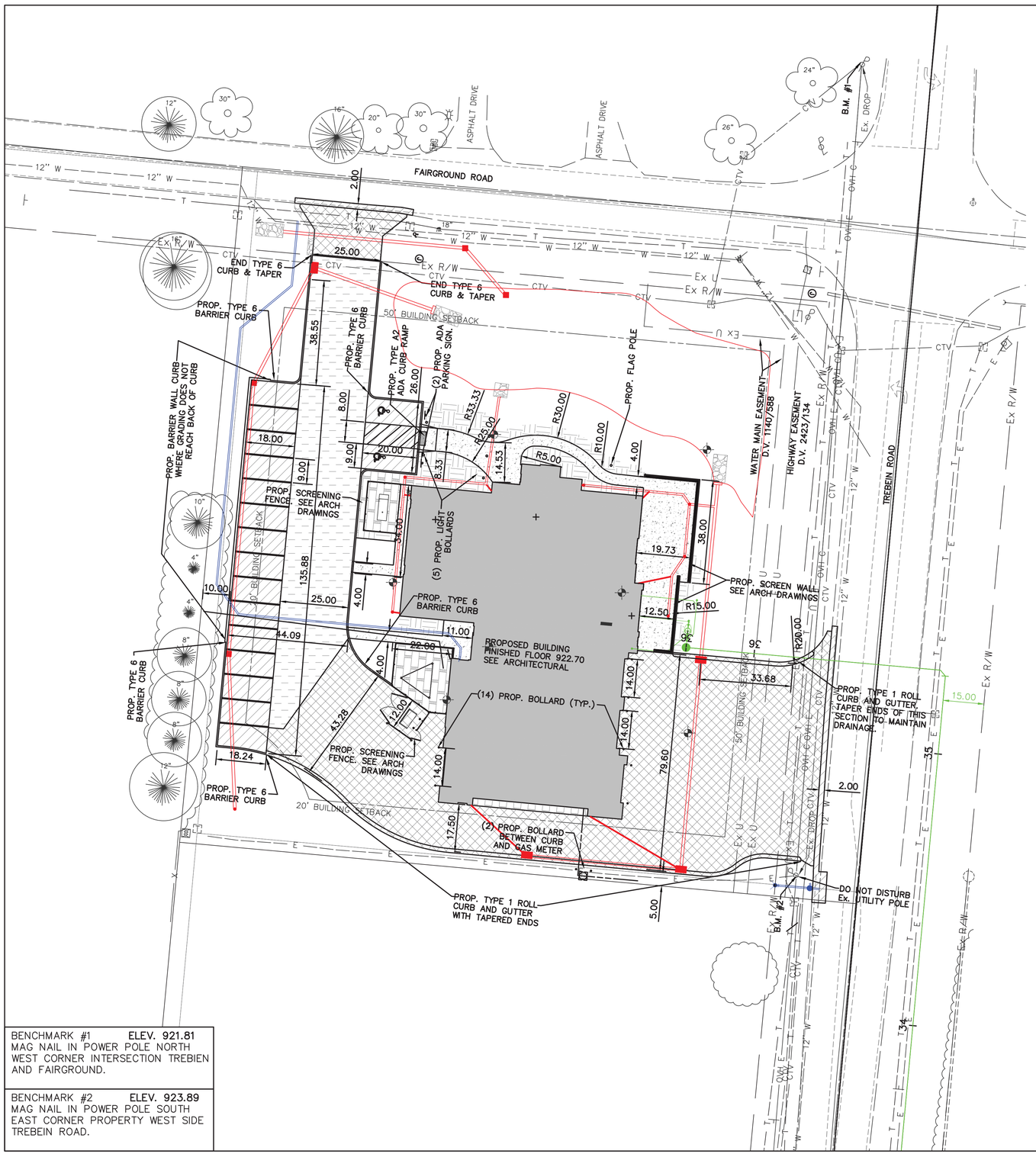
CHECKED	MLS
CAD	---

TITLE
UTILITY PLAN

SHEET NO.
C5.0



BENCHMARK #1	ELEV. 921.81
MAG NAIL IN POWER POLE NORTH WEST CORNER INTERSECTION TREBIEN AND FAIRGROUND.	
BENCHMARK #2	ELEV. 923.89
MAG NAIL IN POWER POLE SOUTH EAST CORNER PROPERTY WEST SIDE TREBEIN ROAD.	

PAVEMENT STRIPING NOTES:

ANY PROPOSED PAVEMENT MARKING SHALL BE STRIPED AS PART OF THIS WORK.

ALL PAVEMENT MARKING LINES SHALL BE WHITE OR YELLOW (DO NOT REQUIRE REFLECTOR BEADS) AND SHALL CONSIST OF 4" WIDE LINES.

ALL PAVEMENT MARKINGS SHALL BE PER ODOT ITEM 640 AND 642. ALL PAVEMENT MARKINGS TO BE TYPE 1, UNLESS APPLICATION IS REQUIRED WHEN AIR AND PAVEMENT TEMPERATURES ARE BETWEEN 35 °F AND 50 °F, THEN OBTAIN APPROVAL FROM THE OWNER AND APPLY ONLY PRE-QUALIFIED TYPE 1A COLD WEATHER TRAFFIC PAINT MATERIALS PER ITEM 642 AND 740.

ALL MARKING LAYOUT AND COLOR SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

SCALE IN FEET
0 10 20 40

NOTES:

1) ALL DIMENSIONS INVOLVING CURBING ARE TO THE FACE OF CURB, UNLESS OTHERWISE NOTED.

2) INSTALL DRIVEWAY PER GREENE COUNTY STANDARDS.

3) CONTRACTOR TO VERIFY EXACT LOCATION, DEPTH AND SIZE OF UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF ANY CONFLICTS PRIOR TO THE INSTALLATION OF UTILITIES.

4) CONTRACTOR TO FOLLOW ALL PERMIT REQUIREMENTS AND SPECIFICATIONS TO INSTALL THE PROPOSED DEVELOPMENT INCLUDING COORDINATING THE INSTALLATION WITH LOCAL OFFICIALS AS NEEDED AND/OR REQUIRED.

5) CONTRACTOR TO COORDINATE ALL WORK WITH THE OWNER AS NEEDED/REQUIRED.

HEAVY DUTY CONCRETE PAVEMENT
ITEM 452 – 8" NON-REINFORCED CONCRETE PAVEMENT WITH 1.5 LBS/CY OF FIBERSTRAND 150, 3/4" LENGTH FIBRILLATED MICROFIBERS. CONTRACTOR SHALL CONTACT THE FIBER MANUFACTURER'S SUPPLIER 48 HOURS PRIOR TO ORDERING THE FIRST BATCH OF CONCRETE FOR APPROPRIATE MIXING AND FINISHING PROCEDURES ON
ITEM 304 – 6" AGGREGATE BASE ON
ITEM 204 – SUBGRADE COMPACTION

REGULAR DUTY ASPHALT PAVEMENT
ITEM 441 – 1 1/2" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, (448) PG 64-22 ON
ITEM 441 – 2 1/2" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, (448) ON
ITEM 304 – 6" AGGREGATE BASE (2 EQUAL LIFTS) ON
ITEM 204 – SUBGRADE COMPACTION

HEAVY DUTY ASPHALT PAVEMENT
ITEM 441 – 1 1/4" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, (448) PG 64-22 ON
ITEM 441 – 1 3/4" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, (448) ON
ITEM 301 – 3" ASPHALT CONCRETE BASE ON
ITEM 304 – 8" AGGREGATE BASE (2 EQUAL LIFTS) ON
ITEM 204 – SUBGRADE COMPACTION

CONCRETE SIDEWALK
ITEM 608 – 4" CONCRETE SIDEWALK ON
ITEM 411 – 4" STABILIZED AGGREGATE BASE

PROPOSED CHESTNUT GRAVEL
GRAVEL BY LANDSCAPE CONTRACTOR

LANDSCAPE AREAS. SEE LANDSCAPING DWGS

PROPOSED BUILDING

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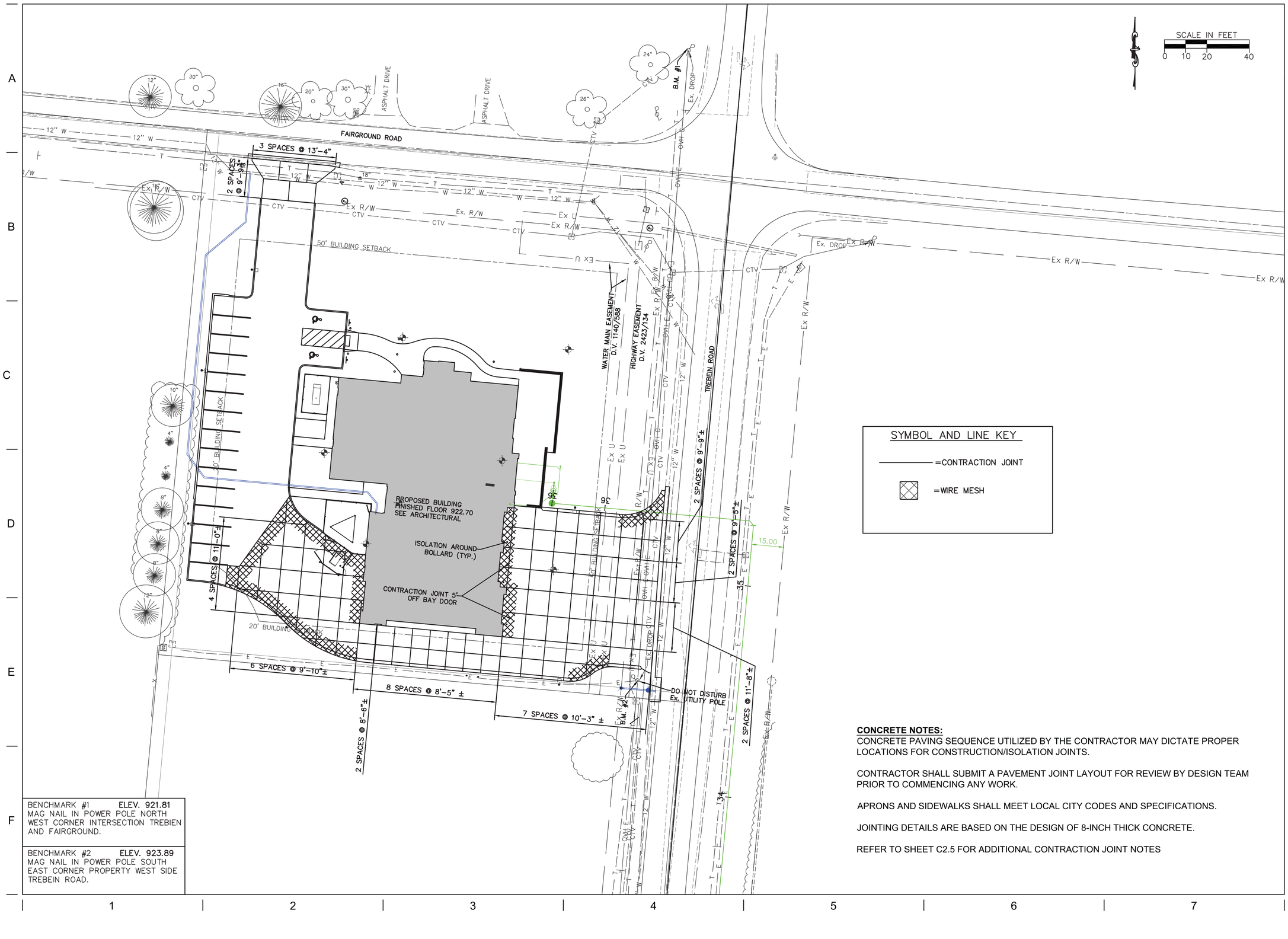
TITLE
DIMS & PAVEMENT

SHEET NO.
C6.0



SYMBOL AND LINE KEY

=CONTRACTION JOINT

=WIRE MESH

BENCHMARK #1 ELEV. 921.81
MAG NAIL IN POWER POLE NORTH WEST CORNER INTERSECTION TREBIEN AND FAIRGROUND.

BENCHMARK #2 ELEV. 923.89
MAG NAIL IN POWER POLE SOUTH EAST CORNER PROPERTY WEST SIDE TREBEIN ROAD.

CONCRETE NOTES:

CONCRETE PAVING SEQUENCE UTILIZED BY THE CONTRACTOR MAY DICTATE PROPER LOCATIONS FOR CONSTRUCTION/ISOLATION JOINTS.

CONTRACTOR SHALL SUBMIT A PAVEMENT JOINT LAYOUT FOR REVIEW BY DESIGN TEAM PRIOR TO COMMENCING ANY WORK.

APRONS AND SIDEWALKS SHALL MEET LOCAL CITY CODES AND SPECIFICATIONS.

JOINTING DETAILS ARE BASED ON THE DESIGN OF 8-INCH THICK CONCRETE.

REFER TO SHEET C2.5 FOR ADDITIONAL CONTRACTION JOINT NOTES

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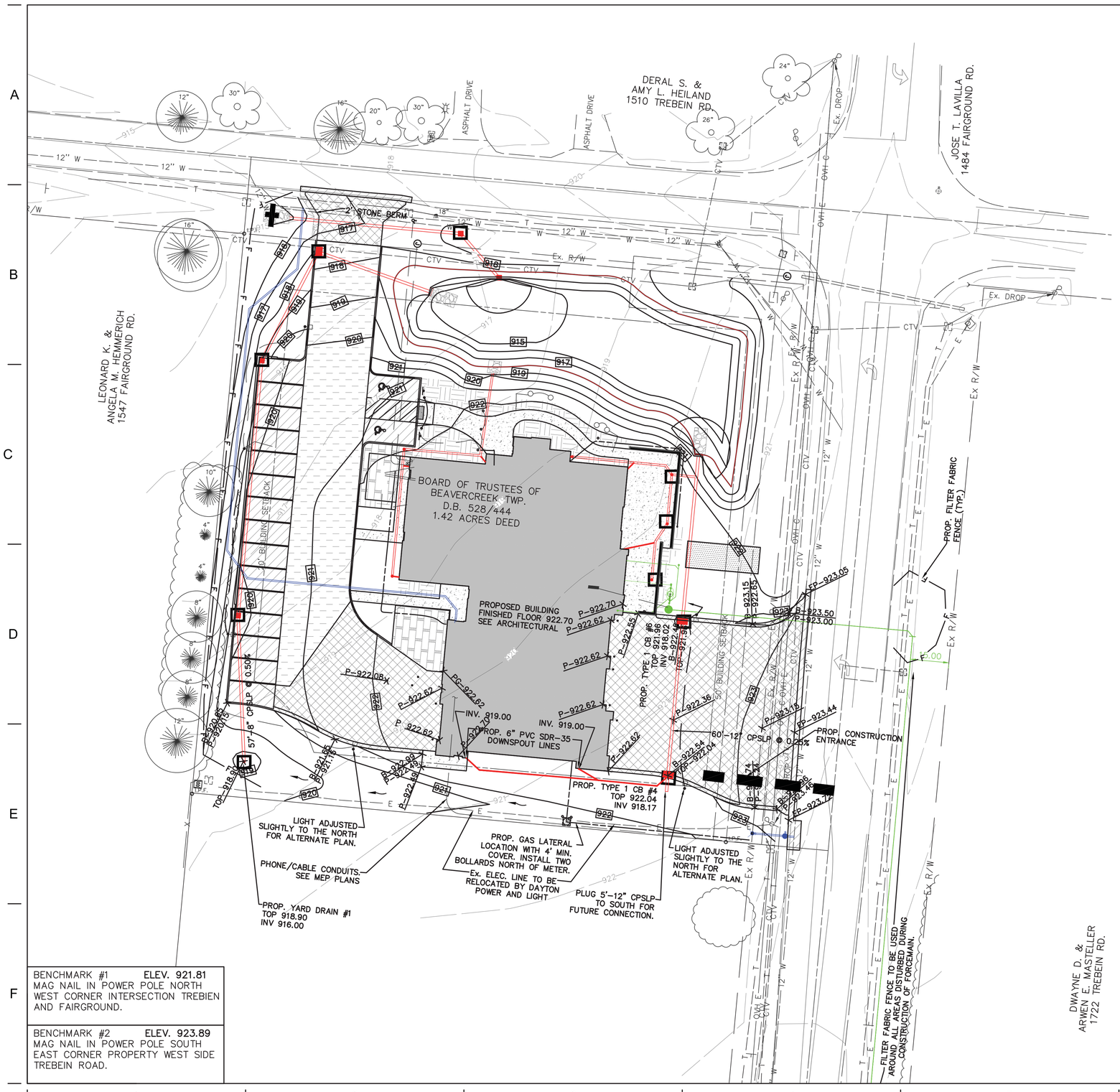
TITLE
PAVEMENT JOINT LAYOUT

SHEET NO.
C6.1



SCALE IN FEET
0 10 20 40

LEGEND

EP = EXISTING PAVEMENT ELEVATION
P = PROPOSED PAVEMENT ELEVATION
B = PROPOSED TOP OF CURB ELEVATION
TOP = PROPOSED TOP OF GRATE ELEVATION
PG = PROPOSED FINISHED GRAVEL ELEVATION

—923— EXISTING CONTOURS
—923— PROPOSED CONTOURS
PROPOSED STORM SEWER
PROPOSED EDGE PAVEMENT
PROPOSED CURB
-F—F- PROPOSED FILTER FABRIC FENCE MEASURE
PROPOSED INLET PROTECTION
PROPOSED CONSTRUCTION ENTRANCE
PROPOSED DITCH CHECK/ROCK CHECK DAM

NOTE:
UTILITY, PAVEMENT, AND ELEVATION CALLOUTS NOT SHOWN ON THIS SHEET SHALL BE PER THE BASE SITE DESIGN.

GENERAL NOTES ON BASE SITE PLAN SHEETS (C3.0–C6.1) SHALL APPLY TO ALTERNATE PLAN, INCLUDING PAVEMENT HATCHES AND UTILITY STANDARDS.

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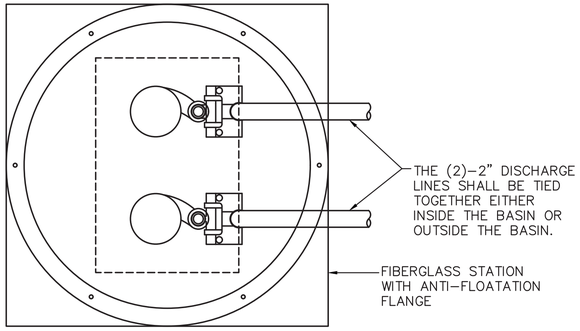
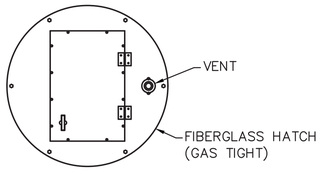
TITLE
ALTERNATE PLAN

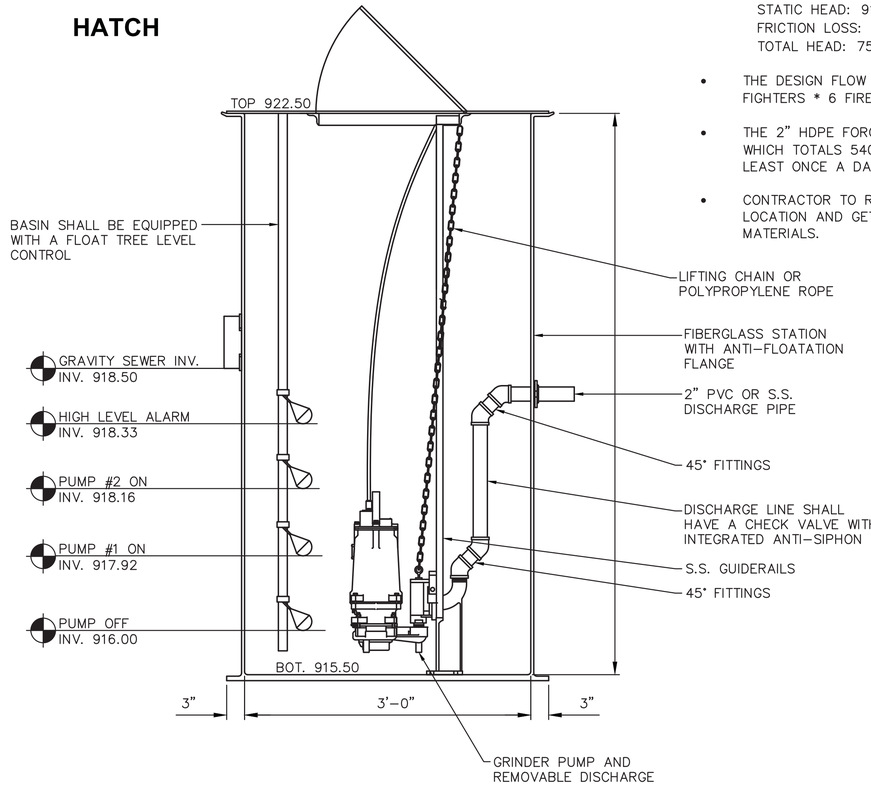
SHEET NO.
C6.2



TOP VIEW



HATCH



DUPLEX GRINDER PUMP STATION (36" DIAMETER)

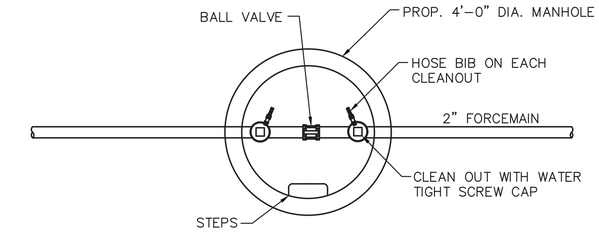
GRINDER PUMP STATION NOTES

- 36" DIA. FIBERGLASS BASIN, DUPLEX, STAINLESS STEEL C–CHANNEL RAIL SYSTEM WITH 3" BALLAST SUPPORT FLANGE.
- ALUMINUM HATCH COVER, BUG–FREE VENT, LOCKABLE, HINGED ACCESS DOOR AND STAINLESS STEEL HINGES AND HARDWARE.
- 2" DISCHARGE PIPING, STEEL OR PVC.
- PROVIDE A LIFTING CHAIN OR LIFTING ROPE.
- MECHANICAL FLOAT SWITCHES AND STAINLESS STEEL FLOAT BRACKET.
- CHECK VALVE AND ANTI–SIPHON VALVE. THE ANTI–SIPHON VALVE SHALL BE USED TO PROVIDE AIR INTO THE FORCEMAIN TO ALLOW GRAVITY DRAINING WHEN THE PUMP SHUTS OFF.
- **PROVIDE PUMP CONTROL PANEL. PANEL TO BE MOUNTED INSIDE THE BUILDING IN THE APPARATUS BAY. COORDINATE W/ ARCHITECTURAL PLANS FOR LOCATION. PANEL SHALL HAVE AN ALARM LIGHT. BASIN MUST COME WITH ENOUGH DIRECT BURY CABLE TO EXTEND TO THE PANEL LOCATION.**
- PROVIDE FLEXIBLE FITTINGS FOR INLET AND OUTLET PIPES.
- JUNCTION BOX, NEMA 4X WITH CORD GRIPS FOR DUPLEX.
- **ELECTRIC SERVICE TO FIRE STATION FACILITY IS 208Y/120V, 1PH, 4 WIRE. ASSUME THIS WILL BE SUPPLIED TO THE GRINDER PUMP AS WELL.**
- GRINDER PUMP SHALL BE RATED FOR 32 GPM AT 75 TDH.
- FORCEMAIN FLOW RATE – TO MAINTAIN AT LEAST 3 FPS IN THE FORCEMAIN THE PUMP NEEDS TO PUMP AT 32 GPM.
- TOTAL DYNAMIC HEAD –
  STATIC HEAD: 919.42 – 916.00 = 3.42'
  FRICTION LOSS: 2.0'/100' * 3,579' = 71.58'
  TOTAL HEAD: 75'
- THE DESIGN FLOW FROM THE FIRE STATION IS 150 GPD/FIRE FIGHTERS * 6 FIRE FIGHTERS = 900 GPD.
- THE 2" HDPE FORCEMAIN HAS A CAPACITY OF 15 GAL./100 FT. WHICH TOTALS 540 GALLONS. THE FORCEMAIN WILL BE FLUSHED AT LEAST ONCE A DAY.
- CONTRACTOR TO REFERENCE MEP DRAWINGS FOR CONTROL BOX LOCATION AND GET TOTAL CABLE LENGTH PRIOR TO ORDERING MATERIALS.

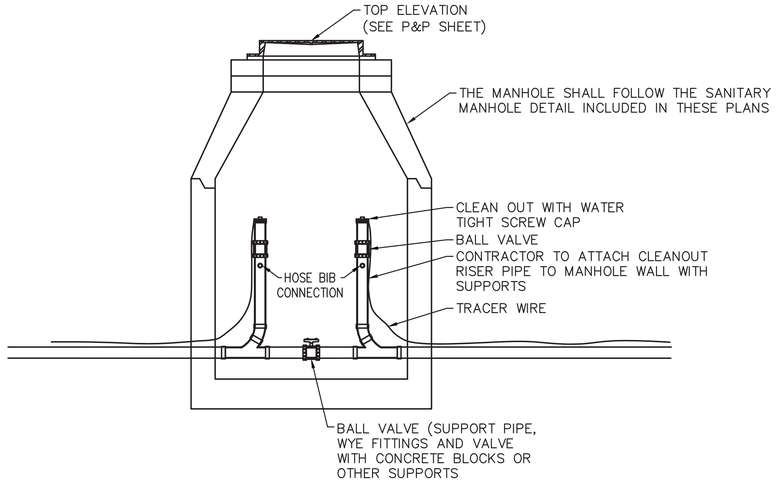
GREENE COUNTY SANITARY ENGINEERING DEPARTMENT SPECIFICATIONS

THE CONTRACTOR SHALL FOLLOWING THE BELOW SPECIFICATIONS FOR THE PROPOSED SANITARY FORCEMAIN AND GRINDER PUMP INSTALLATION. A COPY OF THE SPECIFICATIONS CAN BE FOUND HERE.
https: //www.co.greene.oh.us/317/Sanitary–Engineering

SECTION 02600 – JACKING, BORING AND TUNNELING
SECTION 15051 – BURIED PIPE INSTALLATION
SECTION 15064 – THERMOPLASTIC PIPE
SECTION 15080 – TRACER WIRE INSTALLATION



TOP VIEW



INLINE DOUBLE CLEANOUT

DRAWING #CD141831 PROVIDE BY CRANE PUMPS & SYSTEMS

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TITLE
SANITARY DETAILS - (1)

SHEET NO.
C7.0

SANITARY SEWER MANHOLE NOTES

A. SANITARY SEWER MANHOLE FRAME AND LID SHALL BE A WATERTIGHT MANHOLE WITH THE FRAME AND LID EQUIVALENT TO NEENAH R1916–D OR EAST JORDAN IRON WORKS 1600 WT. ALL SANITARY SEWER MANHOLE LIDS SHALL BE STAMPED "GREENE COUNTY SANITARY SEWER". A RUBBER SEAL OR MASTIC SEAL BETWEEN THE MANHOLE FRAME AND TOP SECTION OF ADJUSTING RINGS IS REQUIRED. CONTRACTOR TO FURNISH WATERTIGHT FRAME AND LIDS UNLESS OTHERWISE INDICATED ON THE PLANS.

B. NO LATERALS SHALL PROTRUDE INTO THE INTERIOR MANHOLE.

C. TO CONNECT INTO EXISTING MANHOLE, THE MANHOLE SHALL BE CORED AND A KOR–N–SEAL FLEXIBLE CONNECTOR OR EQUIVALENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. NON–SHRINK GROUT ALTERNATIVE MAY BE USED IN SPECIAL CIRCUMSTANCES WHEN PREVIOUSLY APPROVED BY VILLAGE.

D. MATERIALS FOR BASES, RISERS, AND OTHER PRECAST SECTIONS, INCLUDING REINFORCEMENTS, SHALL COMPLY WITH ASTM C–478.

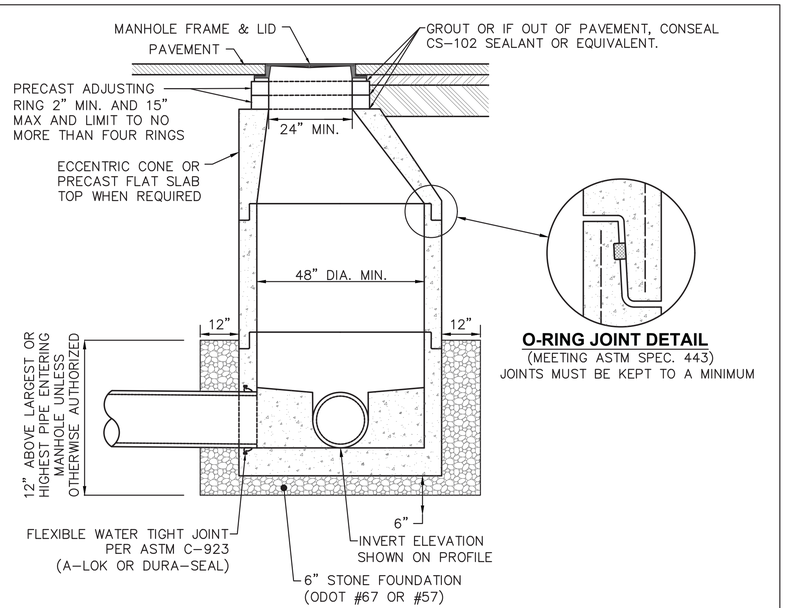
E. MAXIMUM SANITARY MANHOLE SPACING SHALL BE 400'.

F. LOCATE THE CENTERLINE OF THE MANHOLE LID OVER THE CENTERLINE OF THE MAIN SEWER WHENEVER POSSIBLE.

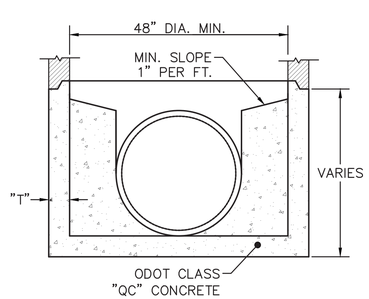
G. CONSEAL CS–102 FLEXIBLE BUTYL RESIN SEALANT OR EQUIVALENT SHALL BE ⅜" X 1" MINIMUM STRIPS UNDER GRADE RINGS AND CASTING.

H. CUT PIPE SHALL NOT EXTEND BEYOND THE INSIDE FACE OF THE MANHOLE WALL.

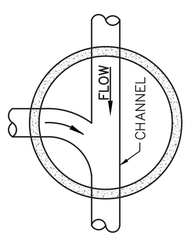
I. CONCRETE PLACED INSIDE THE MANHOLE SHALL NOT BE PLACED BETWEEN THE PIPE AND THE OPENING SO AS TO INTERFERE IN ANY WAY WITH THE FLEXIBILITY OF THE JOINT.



O-RING JOINT DETAIL
(MEETING ASTM SPEC. 443)
JOINTS MUST BE KEPT TO A MINIMUM



PRECAST BASE SECTION



ALL INVERTS TO BE CHANNELED FOR OPTIMUM FLOW

STANDARD INVERT CHANNEL

TYPE 3 SANITARY MANHOLE

MANHOLE VACUUM TEST

ALL SANITARY SEWER MANHOLES SHALL BE VACUUM TESTED USING THE FOLLOWING PROCEDURES FROM ASTM C–1244.

A. PREPARATION OF THE MANHOLE
1. ALL LIFT HOLES SHALL BE PLUGGED.
2. ALL PIPES ENTERING THE MANHOLE SHALL BE TEMPORARILY PLUGGED, TAKING CARE TO SECURELY BRACE THE PIPES AND PLUGS TO PREVENT THEM FROM BEING DRAWN INTO THE MANHOLE.

B. PROCEDURE
1. THE TEST HEAD SHALL BE PLACED AT THE TOP OF THE MANHOLE IN THE CASTING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
2. A VACUUM OF 10 IN. OF MERCURY (4.9 PSI) SHALL BE DRAWN ON THE MANHOLE, THE VALVE ON THE VACUUM LINE OF THE TEST HEAD CLOSED, AND THE VACUUM PUMP SHUT OFF. THE TIME SHALL BE MEASURED FOR THE VACUUM TO DROP TO 9 IN. OF MERCURY (4.4 PSI).
3. THE MANHOLE SHALL PASS IF THE TIME FOR THE VACUUM READING TO DROP FROM 10 IN. OF MERCURY (4.9 PSI) TO 9 IN. OF MERCURY (4.4 PSI) MEETS OR EXCEEDS THE VALUES INDICATED ON THE TABLE.
4. IF THE MANHOLE FAILS THE INITIAL TEST, NECESSARY REPAIRS SHALL BE MADE BY AN APPROVED METHOD. THE MANHOLE SHALL THEN BE RETESTED UNTIL A SATISFACTORY TEST IS OBTAINED.

DEPTH (FT.)	DIAMETER, INCHES 48	60	72
	TIME, SECONDS		
8 OR <	20	26	33
10	25	33	41
12	30	39	49
14	35	46	57
16	40	52	67
18	45	59	73
20	50	65	81
22	55	72	89
24	59	78	97
26	64	85	105
28	69	91	113
30	74	98	121

MINIMUM TEST TIMES FOR VARIOUS MANHOLE DIAMETERS

GREENE COUNTY SANITARY ENGINEERING DEPARTMENT SPECIFICATIONS

THE CONTRACTOR SHALL FOLLOWING THE BELOW SPECIFICATIONS FOR THE PROPOSED SANITARY SEWER MANHOLE INSTALLATION. A COPY OF THE SPECIFICATIONS CAN BE FOUND HERE. https: //www.co.greene.oh.us/317/Sanitary–Engineering

SECTION 02722 – SANITARY MANHOLES
SECTION 05540 – CASTINGS

SANITARY SEWER DEFLECTION TEST

A. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AS LEAST 30 DAYS TO PERMIT STABILIZATION OF THE SOIL–PIPE SYSTEM.

B. NO PIPE SHALL EXCEED A DEFLECTION OF 5 PERCENT. IF DEFLECTION EXCEEDS 5 PERCENT, REPLACEMENT OR CORRECTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH REQUIREMENTS OF APPROVING AGENCY.

C. THE RIGID BALL OR MANDREL USED FOR THE DEFLECTION TEST SHALL HAVE A DIAMETER NOT LESS THAN 95 PERCENT OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE DEPENDING ON WHICH IS MANUFACTURED. THE PIPE SHALL BE MEASURED IN COMPLIANCE WITH ASTM D–2122 STANDARD TEST METHOD OF DETERMINING DIMENSIONS OF THERMOPLASTIC PIPE AND FITTINGS. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.

SEWER PIPE LOW PRESSURE AIR TEST

A. AFTER BACKFILLING, THE AIR TEST SHALL BE CONDUCTED BETWEEN TWO CONSECUTIVE MANHOLES. ALL PIPE OUTLETS MUST BE PLUGGED IN THE SECTION BEING TESTED WITH SUITABLE TEST PLUGS. ONE OF THE PLUGS USED AT A MANHOLE MUST BE TAPPED AND EQUIPPED FOR AN AIR INLET CONNECTION FOR FILLING THE LINE FROM THE AIR COMPRESSOR. AIR SHALL BE SUPPLIED SLOWLY TO THE TEST SECTION UNTIL THE INTERNAL PRESSURE REACHES APPROXIMATELY 4 PSI. IF THE PIPE IS BELOW EXISTING GROUNDWATER LEVEL, THE INTERNAL PRESSURE SHALL BE INCREASED BY THE AVERAGE BACK PRESSURE OF ANY GROUNDWATER THAT MAY BE OVER THE PIPE, BUT IN NO CASE SHOULD THE INTERNAL PRESSURE EVER EXCEED 5 PSI.

B. AT LEAST 2 MINUTES SHALL BE ALLOWED FOR THE AIR PRESSURE TO STABILIZE. WHEN THE PRESSURE HAS STABILIZED AND IS AT OR ABOVE 3.5 PSI, THE AIR SUPPLY SHALL BE DISCONNECTED AND TIMING SHALL BEGIN WITH A STOP WATCH. THE STOP WATCH SHALL BE ALLOWED TO RUN UNTIL THE PRESSURE HAS DROPPED 1.0 PSI. IF THE TIME SHOWN ON THE STOP WATCH IS GREATER THAN THE SPECIFIED MINIMUM TIME, THE SECTION SHALL BE CONSIDERED TO HAVE PASSED THE TEST. TIME MAY BE INTERPOLATED FROM THE FIGURES LISTED BELOW.

PIPE DIA. (IN.)	Time for Longer Length (sec)	Specified Minimum for Length (L) Shown (min: sec) 100 FT.	150 FT.	200 FT.	250 FT.	300 FT.	350 FT.	400 FT.
4	0.380L	3: 46	3: 46	3: 46	3: 46	3: 46	3: 46	3: 46
6	0.854L	5: 40	5: 40	5: 40	5: 40	5: 40	5: 40	5: 42
8	1.520L	7: 34	7: 34	7: 34	7: 34	7: 36	8: 52	10: 08
10	2.374L	9: 26	9: 26	9: 26	9: 53	11: 52	13: 51	15: 49
12	3.418L	11: 20	11: 20	11: 24	14: 15	17: 05	19: 56	22: 47
15	5.342L	14: 10	14: 10	17: 48	22: 15	26: 42	31: 09	35: 36
18	7.692L	17: 00	19: 13	25: 38	32: 03	38: 27	44: 52	51: 16
21	10.470L	19: 50	26: 10	34: 54	43: 37	52: 21	61: 00	69: 48
24	13.674L	22: 47	34: 11	45: 34	56: 58	68: 22	79: 46	91: 10
27	17.306L	28: 51	43: 16	57: 41	72: 07	86: 32	100: 57	115: 22
30	21.366L	35: 37	53: 25	71: 13	89: 02	106: 50	124: 38	142: 26
33	25.852L	43: 05	64: 38	86: 10	107: 43	129: 16	150: 43	172: 21
36	30.768L	51: 17	76: 55	102: 34	128: 12	153: 50	179: 29	205: 07
39	36.114L	60: 11	90: 17	120: 23	150: 29	180: 34	210: 40	240: 46
42	41.890L	69: 49	104: 44	139: 38	174: 33	209: 27	244: 21	279: 16

SPECIFICATION TIME FOR LENGTH (L) SHOWN (MIN-SEC.)

App Architecture
creative focused design
615 Woodside Drive, Englewood, Ohio 45322
T 937.836.8898 F 937.832.3696
www.app-arch.com

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LOVELAND, OHIO 513.239.8554
PORTLAND, INDIANA 260.766.2500
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STATE OF OHIO
MICHAEL LEWIS SEEGER
E-81748
REGISTERED
PROFESSIONAL ENGINEER

Beavrcreek Township
Fire Station No. 65
1777 Trebein Road, Beavercreek Township, Ohio 45385

ISSUE:

NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION

DATE	04/03/2020
JOB NO.	GREBEV1703
DRAWN	TAN
CHECKED	MLS
CAD	---

TITLE
SANITARY DETAILS - (2)

SHEET NO.
C7.1

LOT 12
STONEHILL DEVELOPMENT, LTD.
1410 PRESTONWOOD CT.

CONNIE B. MESS
1422 PRESTONWOOD CT.

ALICIA N. BUMGARNER
1432 PRESTONWOOD CT.

1442 PRESTONWOOD CT.

Ex U
Ex R/W
12" W
B.M. #6
TREBEIN ROAD
MATCH LINE STA. 5+00

STA. 0+46.00
MANUF. WYE FITTING

FLEXIBLE UTILITY MARKER
GREEN WITH "FORCEMAIN"

(2) Ex. DROP

PROP. 10" SAN.

PROP. TYPE 3 SAN. MH #1
STA. 0+60, 0.00

Ex. SIGN

REMOVE AND REST SIGN

REMOVE AND RESET SIGN, ELECTRIC, AND LANDSCAPING

REPLACE 30' STOP BAR

REPAIR ROADWAY (IN-KIND)

REMOVE AND REPLACE 22' CURB (IN-KIND)

TURFLAND BLVD NORTH

ASPHALT PATH

Ex. 24" RCP
Ex. 18" RCP
Ex. 15" CMP
Ex. 12" RCP
Ex. 10" SAN
Ex. 15" CPSLP

LOT 24
G.A. WHITE
DEVELOPMENT CO., LLC.
1517 ABBEY PARK PL.

LOT 17
GLEN &
NANCY McFARLANE
1491 FAIRHILL CT.

LOT 16
KIMBERLY DAVIS
1496 FAIRHILL CT.

LOT 15
JEAN M. SLONAKER
1492 FAIRHILL CT.

LOT 7
SEAN R. CROWE, TRUSTEE
1487 DRAGONWYCK CT.

BENCHMARK #6 ELEV. 904.61
BOLT AT THE TIP OF THE ARROW ON TOP FLANGE OF THE FIRE HYDRANT ON WEST SIDE OF TREBEIN RD. NORTH OF TURFLAND BLVD.

SCALE IN FEET HOR
0 10 20 40

SCALE IN FEET VER
0 2.5 5 10

STATE OF OHIO
MICHAEL LEWIS SEEGER
E-81748
REGISTERED
PROFESSIONAL ENGINEER

PROPOSED PROFILE ELEVATIONS

Ex. SAN MH
STA. 0+00, 0.0
TOP 901.3±
10" W INV. 883.37
10" E INV. 883.37

PROP. TYPE 3 SAN. MH #1
STA. 0+60, 0.00'
TOP 901.09
10" S INV. 883.71

Ex. STM MH
STA. 0+95.43, 7.38 RT
TOP 900.5±
24" SW INV. 891.73
24" E INV. 891.98

Ex. CB
STA. 0+93.87, 34.6 RT
TOP 901.7±
24" W INV. 892.28
18" N INV. 892.28

Ex. STM MH
STA. 3+15.55, 36.6 RT
TOP 903.9±
18" S INV. 896.07
18" NE INV. 896.12

Ex. GROUND PROFILE OVER FORCEMAIN

Ex. 24" RCP
Ex. 24" RCP
Ex. 18" RCP
Ex. 18" CPSLP

CORE AND INSTALL WATER TIGHT BOOT

TIE FORCEMAIN INTO "WYE" CONNECTION

CHANNEL DOES NOT HAVE TO GO THROUGH MH

60'-10" PVC SDR-26 @ 0.30%

FORCEMAIN
Station=2+00.00
elev = 886.164

454'-2" FORCEMAIN (PRIVATE)

FORCEMAIN
Station=4+00.00
elev = 887.164

EXISTING PROFILE ELEVATIONS
901.3 901.4 901.3 900.8 900.4 900.8 901.2 901.6 901.9 902.3 902.6 902.8 902.9 903.0 903.1 903.2 903.3 903.3 903.3 903.4 903.5

915 910 905 900 895 890 885 880

-1+00 0+00 1+00 2+00 3+00 4+00 5+00

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SIDNEY, OHIO 937.497.0200
LOVELAND, OHIO 513.239.8554
PORTLAND, INDIANA 260.766.2500
www.CHOICEONEENGINEERING.com

FIRE STATION 65
BEAVERCREEK TOWNSHIP, GREENE COUNTY
FORCEMAIN P/P STA. -1+00 TO STA. 5+00

REVISIONS:
FOR CONSTRUCTION

FILE NAME
FORCEMAIN - (1)

DRAWN BY
TAN

CHECKED BY
MLS

PROJECT No.
GREBEV1703

DATE
04/03/2020

SHEET NUMBER
C7.2

LOT 46
KEVIN &
JULIE HESS
1452 PRESTONWOOD CT.

KRISTINA L. HARRIS
1499 TREBEIN RD.

LOT 1
JAMES R. &
CAROLINE C. ALDRICH
1519 TREBEIN RD.

Ex U
Ex R/W
Ex. SIGN
12" W
Ex. CALLBOX
Ex. 12" CPSLP
INV. 897.16
Ex. DROP
OVH E
T
TREBEIN ROAD
MATCH LINE STA. 5+00
MATCH LINE STA. 11+00
FLEXIBLE UTILITY MARKER
GREEN WITH "FORCEMAIN"
6
7
8
9
10
46.84
49.11
49.00
ASPHALT PATH
8" W
Ex. 12" CPSLP

LOT 6
JEAN R. BURDESHAW &
DANIEL E. JORDAN
1491 DRAGONWYCK CT.

LOT 5
SAIKRISHNA RAO &
SUMALATHA ERRABELLI
1492 DRAGONWYCK CT.

LOT 35
STONEHILL DEVELOPMENT, LTD.
1479 RUNNYMEADE WAY

LOT 36
FREDRICK &
JOANN WHITT
1482 RUNNYMEADE WAY

SCALE IN FEET HOR
0 10 20 40
SCALE IN FEET VER
0 2.5 5 10

STATE OF OHIO
MICHAEL LEWIS SEEGER
E-81748
REGISTERED
PROFESSIONAL ENGINEER

PROPOSED PROFILE ELEVATIONS

Ex. CB
STA. 7+70.15, 9.3 RT
TOP 900.4±
12" E INV. 896.01

Ex. GROUND PROFILE OVER FORCEMAIN

600'–2" FORCEMAIN (PRIVATE)

FORCEMAIN
Station=6+00.00
elev = 888.164

FORCEMAIN
Station=10+00.00
elev = 890.164

915 910 905 900 895 890 885 880

EXISTING PROFILE ELEVATIONS
903.4 903.1 902.8 902.5 902.3 901.8 901.8 901.4 900.7 900.3 900.1 900.0 899.9 899.6 899.1 898.8 898.9 898.7 898.6 898.2 898.0 897.7 897.4 897.0

5+00 6+00 7+00 8+00 9+00 10+00 11+00

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FIRE STATION 65
BEAVERCREEK TOWNSHIP, GREENE COUNTY
FORCEMAIN P/P STA. 5+00 TO STA. 11+00

REVISIONS:
FOR CONSTRUCTION

FILE NAME
FORCEMAIN - (2)

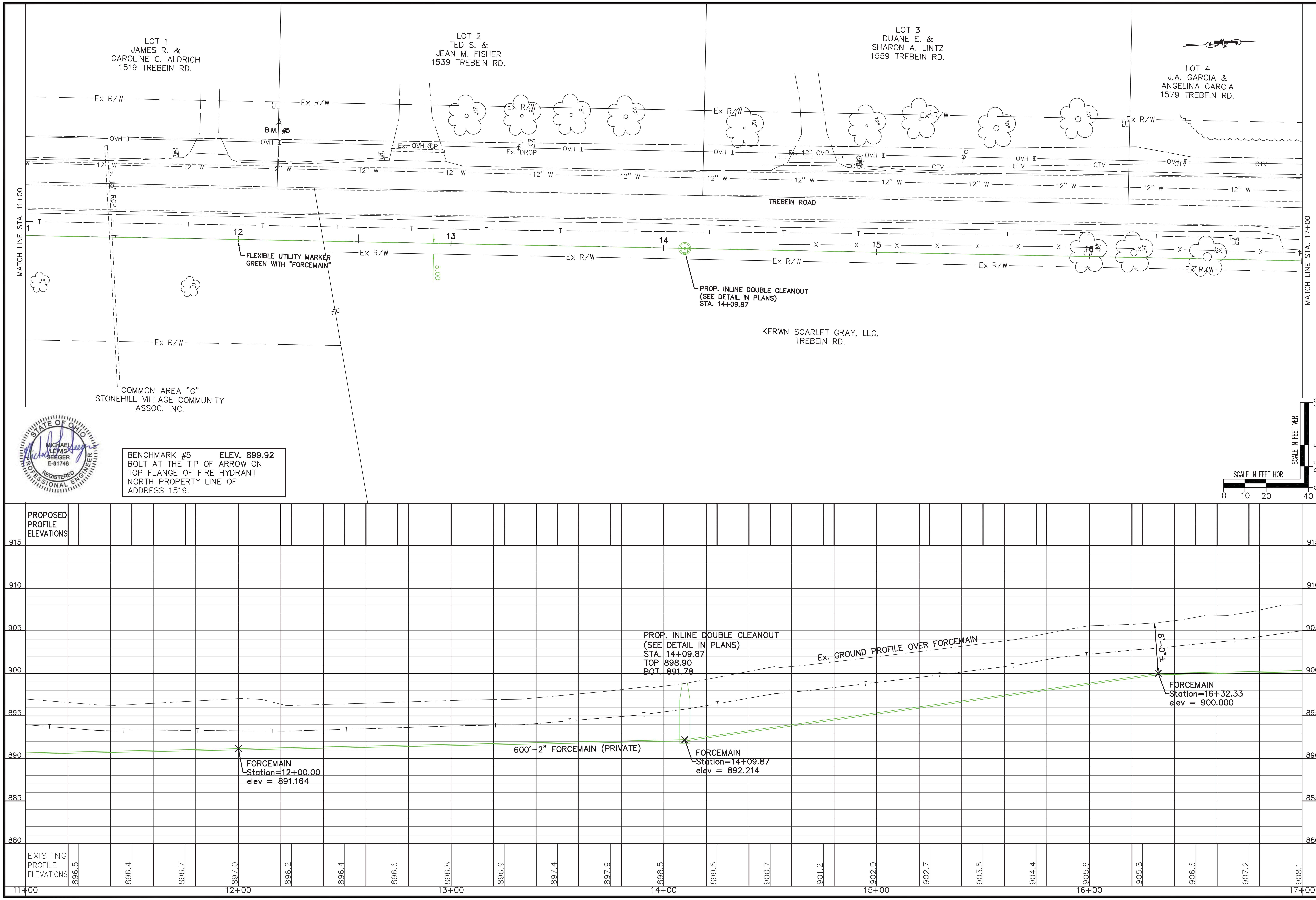
DRAWN BY
TAN

CHECKED BY
MLS

PROJECT No.
GREBEV1703

DATE
04/03/2020

SHEET NUMBER
C7.3



LOT 1
JAMES R. &
CAROLINE C. ALDRICH
1519 TREBEIN RD.
LOT 2
TED S. &
JEAN M. FISHER
1539 TREBEIN RD.
LOT 3
DUANE E. &
SHARON A. LINTZ
1559 TREBEIN RD.
LOT 4
J.A. GARCIA &
ANGELINA GARCIA
1579 TREBEIN RD.
Ex R/W
B.M. #5
OVH E
12" W
CTV
Ex. 12" CMP
Ex. DROP
TREBEIN ROAD
MATCH LINE STA. 11+00
MATCH LINE STA. 17+00
12
13
14
15
16
FLEXIBLE UTILITY MARKER
GREEN WITH "FORCEMAIN"
PROP. INLINE DOUBLE CLEANOUT
(SEE DETAIL IN PLANS)
STA. 14+09.87
KERWN SCARLET GRAY, LLC.
TREBEIN RD.
COMMON AREA "G"
STONEHILL VILLAGE COMMUNITY
ASSOC. INC.
STATE OF OHIO
MICHAEL
LEWIS
SEEGER
E-81746
REGISTERED
PROFESSIONAL ENGINEER
BENCHMARK #5 ELEV. 899.92
BOLT AT THE TIP OF ARROW ON
TOP FLANGE OF FIRE HYDRANT
NORTH PROPERTY LINE OF
ADDRESS 1519.
SCALE IN FEET VER
SCALE IN FEET HOR
0 10 20 40
0 2.5 5 10
PROPOSED
PROFILE
ELEVATIONS
915
910
905
900
895
890
885
880
PROP. INLINE DOUBLE CLEANOUT
(SEE DETAIL IN PLANS)
STA. 14+09.87
TOP 898.90
BOT. 891.78
Ex. GROUND PROFILE OVER FORCEMAIN
600'-2" FORCEMAIN (PRIVATE)
FORCEMAIN
Station=12+00.00
elev = 891.164
FORCEMAIN
Station=14+09.87
elev = 892.214
FORCEMAIN
Station=16+32.33
elev = 900.000
6'-0"±
EXISTING
PROFILE
ELEVATIONS
896.5
896.4
896.7
897.0
896.2
896.4
896.6
896.8
896.9
897.4
897.9
898.5
899.5
900.7
901.2
902.0
902.7
903.5
904.4
905.6
905.8
906.6
907.2
908.1
11+00
12+00
13+00
14+00
15+00
16+00
17+00

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FIRE STATION 65
BEAVERCREEK TOWNSHIP, GREENE COUNTY
FORCEMAIN P/P STA.11+00 TO STA. 17+00

REVISIONS:
FOR CONSTRUCTION

FILE NAME: FORCEMAIN - (3)

DRAWN BY: TAN

CHECKED BY: MLS

PROJECT No.: GREBEV1703

DATE: 04/03/2020

SHEET NUMBER: C7.4

LOT 4
J.A. GARCIA &
ANGELINA GARCIA
1579 TREBEIN RD.

LOT 5
PAUL A. &
CAROL A. SHARP
1599 TREBEIN RD.

LOT 6
JOHN F. HOWARD
1515 TAMARA TRL.

MATCH LINE STA. 17+00

MATCH LINE STA. 23+00

TREBEIN ROAD

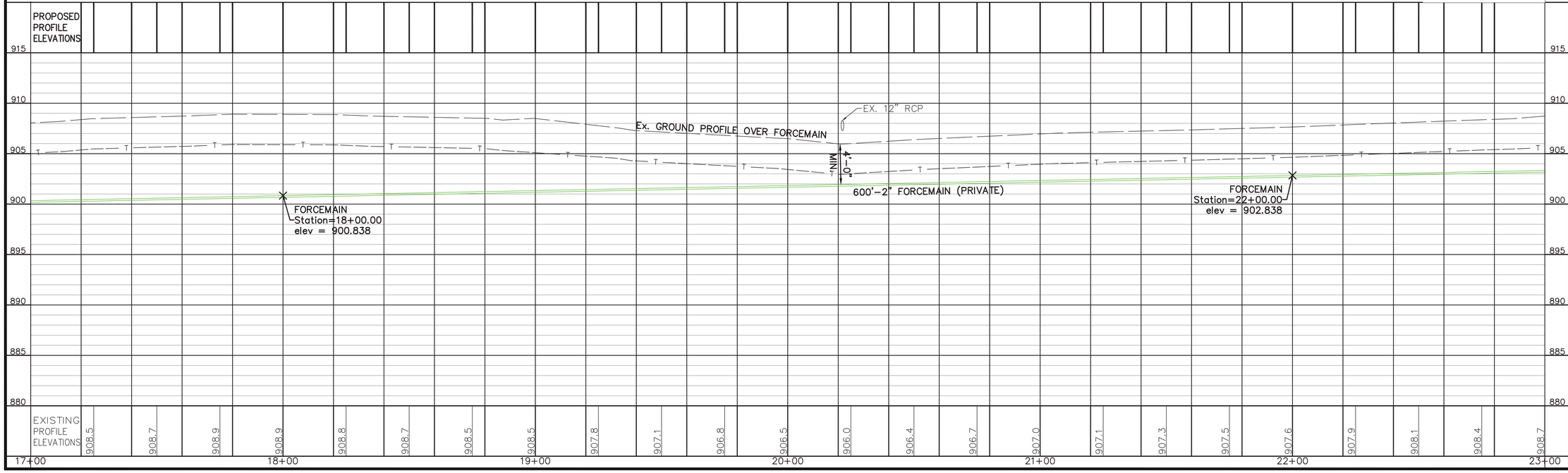
KERWN SCARLET GRAY, LLC.
TREBEIN RD.

FLEXIBLE UTILITY MARKER
GREEN WITH "FORCEMAIN"

SCALE IN FEET HOR
0 10 20 40

SCALE IN FEET VER
0 2.5 5 10

STATE OF OHIO
MICHAEL LEWIS SEEGER
E-81748
REGISTERED
PROFESSIONAL ENGINEER



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FIRE STATION 65
BEAVERCREEK TOWNSHIP, GREENE COUNTY
FORCEMAIN P/P STA. 17+00 TO STA. 23+00

REVISIONS:
FOR CONSTRUCTION

FILE NAME
FORCEMAIN - (4)

DRAWN BY
TAN

CHECKED BY
MLS

PROJECT No.
GREBEV1703

DATE
04/03/2020

SHEET NUMBER
C7.5

LOT 9
WILLIAM D. &
KERRY M. SANTIAGO
1661 TAMARA TRL.

TAMARA TRAIL

TREBEIN ROAD

MATCH LINE STA. 23+00

MATCH LINE STA. 29+00

B.M. #4

(2) Ex. DROP

Ex. 15" RCP

Ex. 12" CMP

ASPHALT PVMT.

GRAVEL PVMT.

FLEXIBLE UTILITY MARKER GREEN WITH "FORCEMAIN"

PROP. INLINE DOUBLE CLEANOUT (SEE DETAIL IN PLANS) STA. 24+60

FLEXIBLE UTILITY MARKER GREEN WITH "FORCEMAIN"

(2) Ex. DROP

1676 TREB, LLC.
1676 TREBEIN RD.

Ex. CALLBOX

CHRISTOPHER JAY &
DEBRA L. HUGHES
1646 TREBEIN RD.

BENCHMARK #4 ELEV. 915.95
BOLT AT THE TIP OF ARROW ON
TOP FLANGE OF FIRE HYDRANT
NORTH OF TAMARA TRAIL.

SCALE IN FEET HOR
0 10 20 40

SCALE IN FEET VER
0 2.5 5 10

STATE OF OHIO
MICHAEL LEWIS SEEGER
E-81748
REGISTERED
PROFESSIONAL ENGINEER

PROPOSED CENTERLINE ELEVATIONS

EX. 18" RCP

PROP. INLINE DOUBLE CLEANOUT
(SEE DETAIL IN PLANS)
STA. 24+60
TOP 911.45
BOT. 903.70

Ex. GROUND PROFILE OVER FORCEMAIN

600'-2" FORCEMAIN (PRIVATE)

FORCEMAIN
Station=24+97.54
elev = 904.326

FORCEMAIN
Station=27+20.00
elev = 912.112

EXISTING CENTERLINE ELEVATIONS: 909.0, 909.5, 910.0, 910.2, 910.1, 910.6, 912.0, 911.6, 911.5, 911.7, 912.0, 912.4, 913.2, 915.2, 916.0, 916.8, 917.5, 918.2, 919.0, 920.3, 921.6, 923.1, 923.8, 924.6

23+00 24+00 25+00 26+00 27+00 28+00 29+00

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FIRE STATION 65
BEAVERCREEK TOWNSHIP, GREENE COUNTY
FORCEMAIN P/P STA. 23+00 TO STA. 29+00

REVISIONS:
1 09/11/2020 BULLETIN #1

FILE NAME: FORCEMAIN - (5)
DRAWN BY: TAN
CHECKED BY: MLS
PROJECT No.: GREBEV1703
DATE: 04/03/2020
SHEET NUMBER: C7.6

LOT 10
ROSE A. FACKLER &
CHRISTOPHER P. ASHLEY
1681 TREBEIN RD.

LOT 11
JAMES W. GARDNER
1701 TREBEIN RD.

LISA McDONOUGH COLEMAN
1711 TREBEIN RD.

MATCH LINE STA. 29+00

TREBEIN ROAD

B.M. #3

B.M. #2

FLEXIBLE UTILITY MARKER
GREEN WITH "FORCEMAIN"

GRAVEL PVMT.

CONC. PVMT.

DO NOT DISTURB Ex. UTILITY POLE

PROP. TYPE 1 CB #51
TOP 921.96
INV 918.21

INV. 919.00

57'-12" CPSLP @ 0.25%

78'-12" CPSLP @ 0.25%

LINE TO BE BY DAYTON AND LIGHT

PROP. GRINDER PU

DWAYNE D. &
ARWEN E. MASTELLER
1722 TREBEIN RD.

BENCHMARK #3 ELEV. 927.87
BOLT AT THE TIP OF ARROW ON TOP FLANGE OF FIRE HYDRANT AT ADDRESS 1681.

STATE OF OHIO
MICHAEL LEWIS SEEGER
E-81748
REGISTERED
PROFESSIONAL ENGINEER

SCALE IN FEET HOR
0 10 20 40

SCALE IN FEET VER
0 2.5 5 10

PROPOSED PROFILE ELEVATIONS

EX. 12" RCP

Ex. GROUND PROFILE OVER FORCEMAIN

600'-2" FORCEMAIN (PRIVATE)

FORCEMAIN
Station=30+00.00
elev = 913.512

FORCEMAIN
Station=34+00.00
elev = 915.512

975 970 965 960 955 950 945 940

EXISTING PROFILE ELEVATIONS

29+00	30+00	31+00	32+00	33+00	34+00	35+00
924.7 925.1 925.6	925.1 924.6 924.3	923.9 923.7	923.2 923.2 924.6	924.8 924.7 924.5	924.5 924.4 924.2	923.9 923.6 923.4	923.0 922.6 922.5	922.2

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LOVELAND, OHIO 513.239.8554
PORTLAND, INDIANA 260.766.2500
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FIRE STATION 65
BEAVERCREEK TOWNSHIP, GREENE COUNTY
FORCEMAIN P/P STA. 29+00 TO STA. 35+00

REVISIONS:
FOR CONSTRUCTION

FILE NAME
FORCEMAIN - (6)

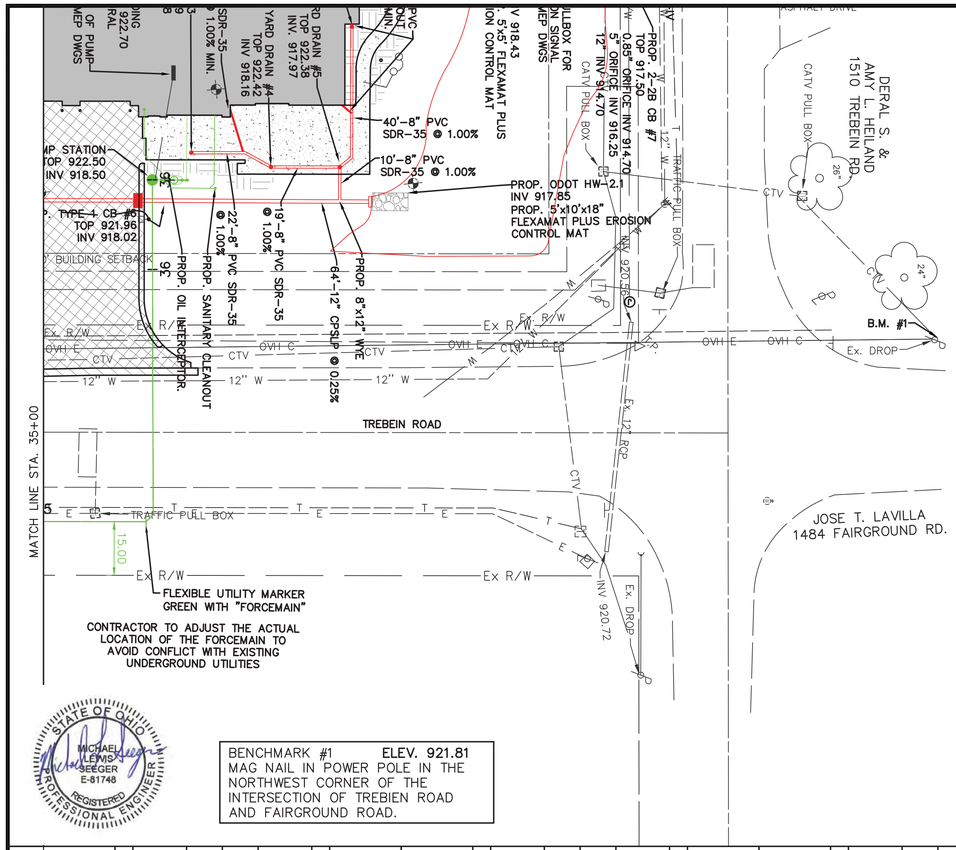
DRAWN BY
TAN

CHECKED BY
MLS

PROJECT No.
GREBEV1703

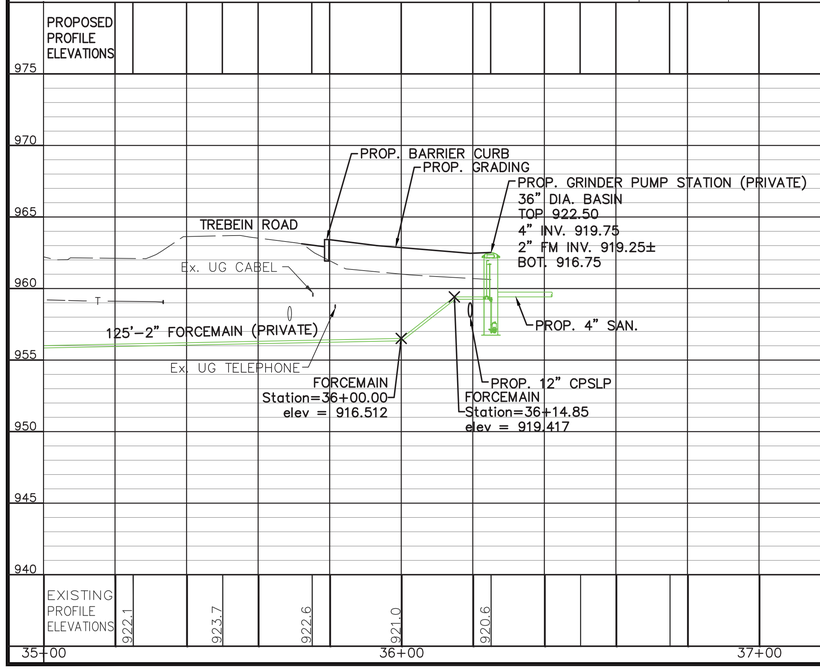
DATE
04/03/2020

SHEET NUMBER
C7.7



STATE OF OHIO
MICHAEL LEWIS SEEGER
E-81748
REGISTERED
PROFESSIONAL ENGINEER

BENCHMARK #1 ELEV. 921.81
MAG NAIL IN POWER POLE IN THE NORTHWEST CORNER OF THE INTERSECTION OF TREBIEN ROAD AND FAIRGROUND ROAD.



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FIRE STATION 65
BEAVERCREEK TOWNSHIP, GREENE COUNTY
FORCEMAIN P/P STA. 35+00 TO STA. 41+00

REVISIONS:
FOR CONSTRUCTION

FILE NAME: FORCEMAIN - (7)
DRAWN BY: TAN
CHECKED BY: MLS
PROJECT No.: GREBEV1703
DATE: 04/03/2020
SHEET NUMBER: C7.8

BEAVERCREEK TOWNSHIP FIRE STATION 65 - SWPPP

GREENE COUNTY, OHIO

INDEX OF SHEETS

VICINITY MAP

SWPPP NOTE:
THIS STORMWATER POLLUTION PREVENTION PLAN PLAN HAS BEEN PREPARED FOR THE BEAVERCREEK TOWNSHIP FIRE STATION 65 PROJECT IN GREENE COUNTY, OHIO. ALL WORK SHALL BE PER AND COMPLY WITH THE OEPA CONSTRUCTION SITE STORM WATER GENERAL PERMIT PERMIT #OH000004. THIS INCLUDES FILING A CO–PERMITTEE NOI FORM WITH THE OEPA FOR ALL OPERATORS ENGAGED IN SITE WORK ON THE SITE. CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS, INSTALLATION, MAINTENANCE AND REQUIREMENTS OF ODOT'S CURRENT SUPPLEMENTAL SPECIFICATION 832 "TEMPORARY SEDIMENT AND EROSION CONTROL" INCLUDING THE STANDARD CONSTRUCTION DRAWING REFERENCES LISTED IN SECTION 832.03. ALL WORK SHALL ALSO BE PER THE CURRENT ODOT CMS 107.19. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH LOCAL STORMWATER AND EROSION CONTROL REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH AND INSTALLING ALL ITEMS NOTED AND AS REQUIRED BY OEPA AND LOCAL AUTHORITIES FOR MEETING ALL STORM WATER POLLUTION PREVENTION REQUIREMENTS. BEAVERCREEK TOWNSHIP AND THE CONTRACTOR THEY SELECT SHALL BE THE RESPONSIBLE PARTY IN CHARGE OF THE SWPPP AND BMP'S.

SITE DATA:
LOCATION SOIL TYPES_____MIAMIAN SILT LOAM
PROJECT AREA _____3.60 ACRES
EARTH DISTURBED AREA_____1.55 ACRES
APPROX. CONTRACTOR EARTH DISTURBED AREA_____0.20 ACRES
TOTAL EARTH DISTURBED AREA_____1.75 ACRES
PROPOSED IMPERVIOUS AREA ADDED: _____0.66 ACRES
SITE PRE–CONSTRUCTION RUNOFF COEFFICIENT: _____0.33
SITE POST–CONSTRUCTION RUNOFF COEFFICIENT: ____0.61
DESCRIPTION OF PRIOR LAND USE_____VACANT LOT (SITE)
EXISTING QUALITY OF DISCHARGE FROM SITE____FAIR QUALITY UNTREATED AGRICULTURAL/GRASS RUNOFF
IMMEDIATE RECEIVING WATERS: _____ON–SITE DETENTION
SUBSEQUENT RECEIVING WATERS: _____UNNAMED TRIBUTARY, ROADSIDE DITCH
LATITUDE 39.736263° LONGITUDE –83.988766°

WATERS EDGE NOTE: ALL MATERIAL AND EQUIPMENT STAGING OR STORAGE AREAS, DEWATERING AREAS, CONCRETE TRUCK WASH OUT AREAS, CONSTRUCTION ACCESS LOCATIONS, AND VEHICLE FUELING AND REFUELING LOCATIONS MUST BE LOCATED A MINIMUM OF 100' FROM ANY CREEK/RIVER/STREAM WATERS EDGE.

CLEAN STORM SYSTEM NOTE:
IMMEDIATELY PRIOR TO FINAL COMPLETION OF THE PROJECT, CONTRACTOR SHALL ENSURE THE ENTIRE STORM SYSTEM, INCLUDING BUT NOT LIMITED TO, THE DETENTION/RETENTION BASIN(S), CATCH BASINS, MANHOLES, PIPING, UNDERDRAINS AND UNDERDRAIN TRENCHES ARE FREE FROM SEDIMENTATION AND OTHER POLLUTANTS AND FOREIGN MATERIALS AND ARE TO BE CLEANED AS NEEDED TO ENSURE MAXIMUM STORMWATER QUALITY AND FULL FUNCTIONALITY.

OFFSITE CONSTRUCTION ACTIVITIES:
IT IS EXPECTED ALL CONSTRUCTION ACTIVITIES WILL TAKE PLACE ON SITE.

SPILL REPORTING REQUIREMENTS:
IN THE EVENT OF A SMALL RELEASE (LESS THAN 25 GALLONS) OF PETROLEUM WASTE, SPECIAL HANDING PROCEDURES MUST BE USED. IN THE EVENT OF A LARGE RELEASE (25 GALLONS OR MORE) OF PETROLEUM WASTE, YOU MUST CONTACT THE OHIO EPA (AT 1–800–282–9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) WITHIN 30 MINUTES OF A SPILL OF 25 OR MORE GALLONS.

VEHICLE FULEING:
VEHICLE FUELING AND MAINTENANCE WILL BE PERFORMED VIA A SMALL REFUEL TANK ON THE BACK OF A PICK–UP TRUCK.

OPEN BURNING NOTE:
OPEN BURNING IS NOT PERMITTED IN THE CORPORATION LIMIT.

CONTACT INFORMATION:
FACILITY SITE LOCATION: 1777 TREBEIN ROAD, BEAVERCREEK TOWNSHIP, OHIO 45385
OWNER: BEAVERCREEK TOWNSHIP, NATHAN HIESTER, BATTALION CHIEF, (937) 426–1213, 851 NORTH ORCHARD LANE, BEAVERCREEK, OH 45434, NHiester@beavercreektownship.org
SWPPP CONTACT – JUSTIN CONGER, CONGER CONSTRUCTION, justin@congerbuilt.com
CONTRACTOR CONTACT – TBD

SWPPP AND INSPECTION REPORTS LOCATION:
NOTE: THE SWPPP AND INSPECTION REPORTS WILL BE KEPT ON–SITE IN THE JOB TRAILER/FOREMAN'S PICK–UP.

WASTE DISPOSAL NOTE:
CONTAINERS (e.g. DUMPSTERS, DRUMS) MUST BE AVAILABLE FOR THE DISPOSAL OF DEBRIS, TRASH, HAZARDOUS MATERIAL AND PETROLEUM WASTES. ALL CONTAINERS MUST BE COVERED AND LEAK–PROOF.

CLEAN HARD FILL NOTE:
NO CLEAN CONSTRUCTION WASTES SHALL BE DISPOSED OF INTO THE PROPERTY.

FUELING AND STAGING NOTE:
CONTRACTOR'S STAGING AND STORAGE AREA WILL BE LOCATED WITHIN CONSTRUCTION LIMITS OF THE PROJECT. FUEL TANKS AND OTHER HAZARDOUS MATERIALS TO BE SAFELY STORED, PROTECTED, AND PROPERLY HANDLED BY CONTRACTOR. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE NO POLLUTANTS FROM THE STAGING/STORAGE AREA LEAVE THE SITE OR ENTER ADJACENT SURFACE WATERS OR THE STORM SYSTEM. CONTRACTOR SHALL CLEAN UP AND PROPERLY DISPOSE OF ANY WASTE MATERIALS.

SOIL STOCKPILE NOTE:
CONTRACTOR'S SHALL LOCATE SOIL STOCKPILE AREAS WITHIN THE PROJECT AREA SO AS NOT TO BE WITHIN THE IMMEDIATE PROXIMITY OF ANY SURFACE WATERS OR STORM INLET STRUCTURES. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE NO POLLUTANTS FROM THE STOCKPILE AREA LEAVE THE SITE OR ENTER ADJACENT SURFACE WATERS OR THE STORM SYSTEM. THESE MEASURES MAY INCLUDE BUT SHALL NOT BE LIMITED TO INSTALLING FILTER FABRIC FENCE AROUND STOCKPILE, TEMPORARILY COVERING THE STOCKPILE AND/OR TEMPORARILY SEEDING THE STOCKPILE.

DEWATERING NOTE:
PUMPING OF SEDIMENT LADEN WATER FROM TRENCHES OR ANY OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, DITCH OR STREAM CORRIDORS, ANY WETLANDS OR STORM SEWERS IS PROHIBITED. ALL SUCH WATER SHALL BE PROPERLY FILTERED OR SETTLED TO REMOVE SOIL PARTICLES PRIOR TO ITS RELEASE.

IF AN AREA OF THE SITE OR TRENCH NEEDS DEWATERED, IT SHOULD BE PUMPED FROM A SUMP PIT WITH A SOCK FILTER OR OTHER TYPE OF FILTERING DEVICE ON THE DISCHARGE OF THE HOSE. DO NOT ALLOW DISCHARGED WATER TO PASS OVER DISTURBED GROUND. IF THE DISCHARGE WATER IS BEING PUMPED INTO A SEDIMENT POND THEN NO FILTER IS REQUIRED AT THE END OF THE HOSE.

IF THE GROUNDWATER MUST BE LOWERED, THE WATER MAY BE FREELY DISCHARGED AS LONG AS THE WATER REMAINS CLEAN. DO NOT CO–MINGLE CLEAN GROUND WATER WITH SEDIMENT LADEN WATER OR DISCHARGE IT BY ALLOWING IT TO PASS OVER DISTURBED GROUND.

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APRIL 3, 2020

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION A FIRE STATION AND A SANITARY FORCE MAIN ALONG TREBEIN ROAD. SITE WORK TO INCLUDE STORM SEWER, SANITARY SEWER, WATER, SITE GRADING, PAVEMENT WORK AND BUILDING CONSTRUCTION.

PROJECT WORK CONSTRUCTION DATES:
START: MAY, 2020
ESTIMATED COMPLETION: NOVEMBER, 2020

EROSION CONTROL NOTES:
1. INSTALL AND MAINTAIN FILTER FABRIC FENCE AND INLET PROTECTION WHERE SHOWN AND AS NEEDED TO MINIMIZE SEDIMENT LADEN WATER FROM LEAVING THE SITE OR ENTERING ANY STORM SYSTEM, ADJACENT DITCHES, STREAMS ETC. IF STORMWATER RUNOFF CONTAINING SEDIMENTS IS FOUND TO BE LEAVING THE PROJECT SITE IN AN AREA WHERE NO BMP/CONTROL MEASURE IS SHOWN OR IN PLACE, CONTRACTOR SHALL IMMEDIATELY INSTALL THE APPROPRIATE BMP/CONTROL MEASURE AS NEEDED TO REMEDY THE SITUATION (TYP. INLET PROTECTION, FILTER FABRIC FENCE, ETC.).

2. INSTALL INLET PROTECTION ON ALL STORM INLET STRUCTURES (YARD DRAINS, CATCH BASINS, MANHOLES WITH GRATED LIDS, ETC.) AND TO ANY EXISTING STORM STRUCTURES WITHIN THE PROJECT AREA WHICH MAY RECEIVE RUNOFF FROM THE CONSTRUCTION SITE AS NEEDED. INLET PROTECTION MAY CONSIST OF DEVICES SUCH AS SEDCAGE (WWW.SEDCATCH.COM), DANDY BAGS, SEDIGUARD FILTERS, FLEXSTORM INLET FILTERS, SEDIMENT FENCE OR OTHER DEVICES WHICH ARE EFFECTIVE AT MINIMIZING THE AMOUNT OF SEDIMENT ENTERING THE STRUCTURE.

3. CONTRACTOR IS RESPONSIBLE FOR IMMEDIATELY CLEANING UP ANY MUD, DIRT AND DEBRIS WHICH IS TRACKED OR SPILLED ONTO THE ROADWAYS.

4. PRE CONSTRUCTION – CONTRACTOR IS RESPONSIBLE TO INSTALL A CONSTRUCTION ENTRANCE AS NEEDED TO MINIMIZE ANY MUD, DIRT AND DEBRIS TRACKED ONTO THE ROADWAYS.

5. DURING CONSTRUCTION – THE CONTRACTOR MUST MAINTAIN EROSION CONTROL UNTIL AREA IS STABILIZED INCLUDING TEMPORARY SEEDING AS NEEDED. CONTRACTOR SHALL TEMPORARYILY SEED ALL CRITICAL EXPOSED SLOPES TO MINIMIZE SEDIMENT RUNOFF.

6. FINAL/POST CONSTRUCTION – CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS. CONTRACTOR SHALL ENSURE GRASS IS PERMANENTLY AND PROPERLY ESTABLISHED IN ALL AREAS WHERE GRASS IS SPECIFIED. ALL SEDIMENT AND EROSION CONTROL STRUCTURES, INCLUDING SEDIMENT FENCE, SHALL REMAIN IN PLACE UNTIL GRASS IS IN PLACE AND SITE IS STABILIZED. ONCE SITE IS STABILIZED AND ALL CONSTRUCTION IS COMPLETE, ALL SEDIMENT FENCE, INLET PROTECTION AND ANY OTHER TEMPORARY BMP'S SHALL BE REMOVED FROM THE SITE.

BMP NOTES:
FOR ALL BMP'S INSTALLED, ENSURE THAT THE PONDING OF WATER BEHIND THE BMP WILL NOT DAMAGE PROPERTY OR POSE A SAFETY THREAT.

IF PERIODIC INSPECTIONS OR OTHER INFORMATION INDICATES A CONTROL MEASURE/BMP HAS BEEN USED INAPPROPRIATELY, THE CONTRACTOR MUST REPLACE AND ADJUST THE CONTROL/BMP TO MEET SITE CONDITIONS AS REQUIRED. THE CONTRACTOR SHALL ADJUST THE SWPPP AND ITS CONTROLS/BMPS AND THEIR QUANTITIES TO MEET FIELD CONDITIONS AND THE OHIO EPA'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION ACTIVITIES GENERAL PERMIT.

SWPPP AND INSPECTION AVAILABILITY AND UPDATES NOTE:
THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ENSURE THE IMMEDIATE AVAILABILITY OF THE SWPPP AND INSPECTION REPORTS ON–SITE. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE TO PERFORM AND DOCUMENT ALL REQUIRED SWPPP INSPECTIONS AND ALL UPDATES AND AMENDMENTS TO THE SWPPP.

DOCUMENTATION AND GOVERNMENT INSPECTION NOTE:
CONTRACTOR(S) SHALL PROVIDE THE OWNER'S REPRESENTATIVE A WRITTEN COPY OF THEIR CO–PERMITTEE APPLICATION AND ANY OTHER DOCUMENTATION THE CONTRACTOR(S) MAY SEND OR RECEIVE FROM THE OEPA OR ANY OTHER GOVERNING AUTHORITIES.

IF AN INSPECTOR OR REPRESENTATIVE FROM THE OEPA OR ANY OTHER GOVERNING AUTHORITY IS ON–SITE, THE CONTRACTOR SHALL IMMEDIATELY CONTACT AND NOTIFY THE OWNER'S REPRESENTATIVE.

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STATE OF OHIO
MICHAEL LEWIS SEEGER
E-81748
REGISTERED
PROFESSIONAL ENGINEER

Beavrcreek Township
Fire Station No. 65
1777 Trebein Road, Beavercreek Township, Ohio 45385

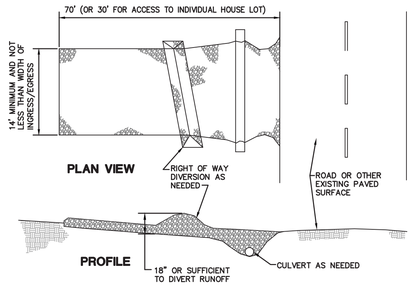
ISSUE:

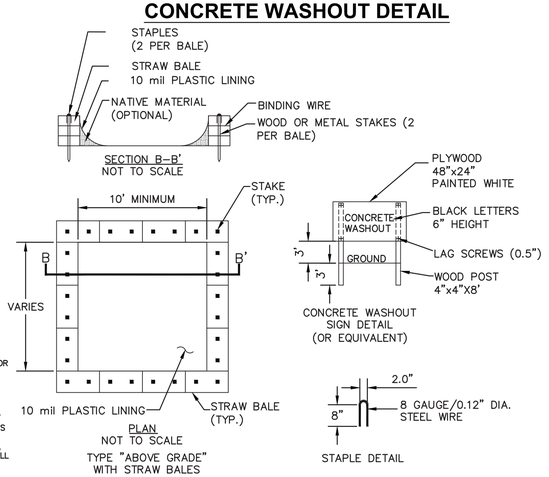
NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION

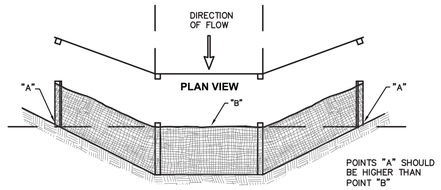
DATE	04/03/2020
JOB NO.	GREBEV1703
DRAWN	TAN
CHECKED	MLS
CAD	---

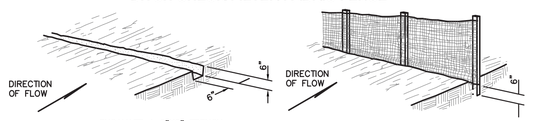
TITLE
SWPPP COVER

SHEET NO.
C8.0









IMPLEMENTATION SCHEDULE (EROSION CONSTRUCTION SEQUENCE)

THE CONTRACTOR OR ITS APPOINTED REPRESENTATIVES WILL ASSUME RESPONSIBILITY FOR INSTALLATION, INSPECTION AND MAINTENANCE OF ALL SOIL EROSION CONTROL MEASURES DURING CONSTRUCTION. THE INSTALLATION OF THE SOIL EROSION CONTROL MEASURES WILL BE COMPLETED, AS FOLLOWS:

A. PRIOR TO ANY GRADING OR EARTHWORK:
A–1. SILT FENCE AND INLET PROTECTION (ON EX. STORM STRUCTURES) TO BE INSTALLED AS SHOWN ON SWPPP
A–2. INSTALL CONSTRUCTION ENTRANCE(S) IF NEEDED AS SHOWN ON SWPPP. INSTALLATION OF ALL OTHER EROSION AND SEDIMENT CONTROL MEASURES, E.G. ROCK CHECK DAMS, CONCRETE WASHOUT PIT, SEDIMENT BASIN, ETC.
B. PERFORM ROUGH GRADING, INSTALL UTILITIES, BUILDINGS, PAVEMENT:
B–1. CLEAR AND GRUB AREA AS NEEDED
B–2. PERFORM SITE GRADING. INSTALL BUILDING(S)
B–3. INSTALL SANITARY, STORM, WATER LINES, OTHER UTILITIES, GRAVEL BASE, AND CURB AND GUTTER, AS PER PLAN(S), INSTALL INLET PROTECTION ON ALL PROPOSED STORM INLET STRUCTURES AS INDICATED ON THE PLANS AS SOON AS THEY ARE INSTALLED.
B–4 PERFORM TEMPORARY SEEDING AS NEEDED ON ANY DISTURBED AREAS PER THE TIME REQUIREMENTS FOR TEMPORARY SEEDING SPECIFIED ON THIS DRAWING.
B–5 INSTALL PAVEMENT.
C. PERFORM FINAL GRADING:
C–1. PLACE TOPSOIL AND PERFORM FINAL RAKING AND GRADING ON ALL DISTURBED AREAS.
C–2. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED (SEEDED AND/OR MULCHED).
C–3. CLEAN UP SITE, AND ONCE SITE HAS REACHED FINAL STABILIZATION REMOVE ALL TEMPORARY BMP'S.

NOTES: A) CARE WILL BE TAKEN NOT TO DISTURB ANY EXISTING NATURAL VEGETATION NOT INVOLVED IN THE CONSTRUCTION PROCESS, WHENEVER POSSIBLE. B) TIMELY INSPECTIONS OF THE EROSION CONTROL MEASURES WILL BE MADE, BY THE CONTRACTOR, EVERY 7 DAYS, AND/OR AFTER ANY RAINFALL OF AT LEAST 1/2" IN A 24–HOUR PERIOD. REPORTS MUST BE KEPT ON–SITE AND SUPPLIED TO THE GOVERNING AUTHORITY IF REQUESTED.

INSPECTION SCHEDULE

1. THE SITE WILL BE INSPECTED PER OHIO EPA PERMIT No. OHC000005:

PART III.G.2.i

I. **INSPECTIONS**. THE PERMITTEE SHALL ASSIGN "QUALIFIED INSPECTION PERSONNEL" TO CONDUCT INSPECTIONS TO ENSURE THAT THE CONTROL PRACTICES ARE FUNCTIONAL AND TO EVALUATE WHETHER THE SWP3 IS ADEQUATE AND PROPERLY IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULE PROPOSED IN PART III.G.1.G OF THE OHC000005 PERMIT OR WHETHER ADDITIONAL CONTROL MEASURES ARE REQUIRED. AT A MINIMUM, PROCEDURES IN A SWP3 SHALL PROVIDE THAT ALL CONTROLS ON THE SITE ARE INSPECTED:

* AFTER ANY STORM EVENT GREATER THAN ONE–HALF INCH OF RAIN PER 24–HOUR PERIOD BY THE END OF THE NEXT CALENDAR DAY, EXCLUDING WEEKENDS AND HOLIDAYS UNLESS WORK IS SCHEDULED; AND
* ONCE EVERY SEVEN CALENDAR DAYS.

THE INSPECTION FREQUENCY MAY BE REDUCED TO AT LEAST ONCE EVERY MONTH FOR DORMANT SITES IF:
* THE ENTIRE SITE IS TEMPORARILY STABILIZED OR
* RUNOFF IS UNLIKELY DUE TO WEATHER CONDITIONS FOR EXTENDED PERIODS OF TIME (E.G. SITE IS COVERED WITH SNOW, ICE, OR THE GROUND IS FROZEN).

THE BEGINNING AND ENDING DATES OF ANY REDUCED INSPECTION FREQUENCY SHALL BE DOCUMENTED IN THE SWP3. ONCE A DEFINABLE AREA HAS ACHIEVED FINAL STABILIZATION, THE AREA MAY BE MARKED ON THE SWP3 AND NO FURTHER INSPECTION REQUIREMENTS SHALL APPLY TO THAT PORTION OF THE SITE.

FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL REPRESENTATIVE. AT A MINIMUM, THE INSPECTION REPORT SHALL INCLUDE:
i. THE INSPECTION DATE;
ii. NAMES, TITLES, AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION;
iii. WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY IF THE FIRST INSPECTION) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES), AND WHETHER ANY DISCHARGES OCCURRED;
iv. WEATHER INFORMATION AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF THE INSPECTION;
v. LOCATION(S) OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE;
vi. LOCATION(S) OF BMPS THAT NEED TO BE MAINTAINED;
vii. LOCATION(S) OF BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
viii. LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND
ix. CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES.

DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF OR THE POTENTIAL FOR POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE SWP3 SHALL BE OBSERVED TO ENSURE THAT THOSE ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF–SITE VEHICLE TRACKING.

THE PERMITTEE SHALL MAINTAIN FOR THREE YEARS FOLLOWING THE SUBMITTAL OF A NOTICE OF TERMINATION FORM, A RECORD SUMMARIZING THE RESULTS OF THE INSPECTION, NAMES(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE SWP3 AND A CERTIFICATION AS TO WHETHER THE FACILITY IS IN COMPLIANCE WITH THE SWP3 AND THE PERMIT AND IDENTIFY ANY INCIDENTS OF NON–COMPLIANCE. THE RECORD AND CERTIFICATION SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT.

i. WHEN PRACTICES REQUIRE REPAIR OR MAINTENANCE. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE, WITH THE EXCEPTION OF A SEDIMENT SETTLING POND, IT SHALL BE REPAIRED OR MAINTAINED WITHIN 3 DAYS OF THE INSPECTION. SEDIMENT SETTLING PONDS SHALL BE REPAIRED OR MAINTAINED WITHIN 10 DAYS OF THE INSPECTION.

ii. WHEN PRACTICES FAIL TO PROVIDE THEIR INTENDED FUNCTION. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE FAILS TO PERFORM ITS INTENDED FUNCTION AND THAT ANOTHER, MORE APPROPRIATE CONTROL PRACTICE IS REQUIRED, THE SWP3 SHALL BE AMENDED AND THE NEW CONTROL PRACTICE SHALL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.

iii. WHEN PRACTICES DEPICTED ON THE SWP3 ARE NOT INSTALLED. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE HAS NOT BEEN IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULE CONTAINED IN PART III.G.1.H OF THIS PERMIT, THE CONTROL PRACTICE SHALL BE IMPLEMENTED WITHIN 10 DAYS FROM THE DATE OF THE INSPECTION. IF THE INSPECTION REVEALS THAT THE PLANNED CONTROL PRACTICE IS NOT NEEDED, THE RECORD SHALL CONTAIN A STATEMENT OF EXPLANATION AS TO WHY THE CONTROL PRACTICE IS NOT NEEDED.

2. VEGETATIVE PLANTINGS – SPRING PLANTINGS WILL BE CHECKED DURING SUMMER OR EARLY FALL.
3. REPAIRS – ANY EROSION CONTROL MEASURES, STRUCTURAL MEASURES, OR OTHER RELATED ITEMS IN NEED OF REPAIR WILL BE MADE WITHIN 7 DAYS.
4. MOWING – DRAINAGE WAYS, DITCHES, AND OTHER AREAS THAT SUPPORT A DESIGNED FLOW OF WATER WILL BE MOWED REGULARLY TO MAINTAIN THAT FLOW.
5. FERTILIZATION – SEEDED AREAS WHERE THE SEED HAS NOT PRODUCED A GOOD COVER WILL BE INSPECTED AND FERTILIZED AS NECESSARY.

CONSTRUCTION ENTRANCE

1. STONE SIZE – 2" STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS, BUT NOT LESS THAN 70' (EXCEPT ON SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
3. THICKNESS – THE STONE LAYER SHALL BE AT LEAST 6" THICK.
4. WIDTH – THE ENTRANCE SHALL BE AT LEAST 10' WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. BEDDING – A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 200 LBS. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LBS.
6. CULVERT – A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE, IF NEEDED, TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE FROM BEING DIRECTED OUT ONTO PAVED SURFACES (IF DRIVE IS PLACED ACROSS A DITCH).
7. WATER BAR – A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE, IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES (IF DRIVE IS PLACED ON A SLOPE).
8. MAINTENANCE – TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
9. CONSTRUCTION ENTRANCE SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFFSITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
10. CONSTRUCTION ENTRANCES ARE INSTALLED TO MINIMIZE OFFSITE TRACKING OF SEDIMENTS. A STONE ACCESS DRIVE SHOULD BE INSTALLED AT EVERY POINT WHERE VEHICLES ENTER OR EXIT THE SITE. EVERY INDIVIDUAL LOT SHOULD ALSO HAVE ITS OWN DRIVE ONCE CONSTRUCTION ON THE LOT BEGINS.

NOTE: ALTERNATIVE STABILIZATION METHODS FOR CONSTRUCTION ENTRANCE/EXIT SUCH AS MANUFACTURED STEEL PLATES, GRID PLATES, ETC. OR STEEL PIPES/GRATINGS WILL ALSO BE CONSIDERED BUT WILL REQUIRE WRITTEN APPROVAL FROM THE OWNER PRIOR TO THE USE OF SUCH ALTERNATIVE METHODS AS ON–SITE CONSTRUCTION ENTRANCES/EXIT. ANY PROPOSED ALTERNATIVE METHODS SHALL SHALL BE SHOWN TO EFFECTIVELY REMOVE MUD AND DEBRIS FROM VEHICLE WHEELS PRIOR TO EXITING THE SITE.

NON-SEDIMENT POLLUTION CONTROL

1. CONSTRUCTION PERSONNEL, INCLUDING SUBCONTRACTORS WHO MAY USE OR HANDLE HAZARDOUS OR TOXIC MATERIALS, SHALL BE MADE AWARE OF THE FOLLOWING GENERAL GUIDELINES:

DISPOSAL AND HANDLING OF HAZARDOUS AND OTHER CONSTRUCTION WASTE

DO:
* PREVENT SPILLS
* USE PRODUCTS UP
* FOLLOW LABEL DIRECTIONS FOR DISPOSAL
* REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH
* RECYCLE WASTE WHENEVER POSSIBLE

DON'T
* DON'T POUR INTO WATERWAYS, STORM DRAINS, OR ONTO THE GROUND
* DON'T POUR DOWN THE SINK, FLOOR DRAIN, OR SEPTIC TANKS
* DON'T BURY CHEMICALS OR CONTAINERS
* DON'T BURN CHEMICALS OR CONTAINERS
* DON'T MIX CHEMICALS TOGETHER

2. CONTAINERS SHALL BE PROVIDED FOR COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM, AND ANY HAZARDOUS MATERIALS TO BE USED ON SITE. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL.

3. NO WASTE MATERIALS SHALL BE BURIED ON SITE. SITE PERSONNEL, INCLUDING SUBCONTRACTORS, SHALL BE NOTIFIED THAT NO CONSTRUCTION–RELATED MATERIALS ARE TO BE BURIED ON SITE.

4. MIXING, PUMPING, TRANSFERRING, OR OTHERWISE HANDLING CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH, OR STORM DRAIN.

5. EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES, OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS.

6. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER.

7. IF HAZARDOUS SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL). SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST OR KITTY LITTER AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL–BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. CONTACT OHIO EPA (1–800–282–9378),

8. SPILLS OF 25 GAL. OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO OHIO EPA (1–800–282–9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MIN. OF THE DISCOVERY OF THE RELEASE.

9. STREETS NEED TO BE SWEPT AS OFTEN AS NECESSARY TO KEEP THEM CLEAN AND FREE FROM SEDIMENT. SEDIMENT TO BE SWEPT BACK ONTO THE LOT – NOT DOWN THE STORM SEWER.

10. STOCKPILES OF SOIL AND OTHER MATERIALS SHALL BE STORED AWAY FROM WATERCOURSES, DITCHES, OR STORM DRAINS, AND SHALL HAVE EROSION CONTROL MATERIALS PLACED AROUND THEM.

11. ALL STREAM CROSSINGS SHALL BE CONSTRUCTED ENTIRELY OF NON–ERODIBLE MATERIAL.

PROCESS WASTEWATER/LEACHATE MANAGEMENT NOTE:

ALL PROCESS WASTEWATERS (e.g. EQUIPMENT WASHING, LEACHATE ASSOCIATED WITH ON–SITE WASTE DISPOSAL, AND CONCRETE WASH–OUTS) MUST BE COLLECTED AND DISPOSED OF PROPERLY (e.g. TO A PUBLICLY–OWNED TREATMENT WORKS). THE NPDES CONSTRUCTION STORM WATER GENERAL PERMIT ONLY AUTHORIZES THE DISCHARGE OF STORM WATER AND CERTAIN UNCONTAMINATED NON–STORM WATERS. THE DISCHARGE OF NON–STORM WATERS TO WATERS OF THE STATE MAY BE IN VIOLATION OF LOCAL, STATE, AND FEDERAL LAWS OR REGULATIONS.

HANDLING OF TOXIC OR HAZARDOUS MATERIALS NOTE:

NO SOLID, SANITARY, OR TOXIC WASTE IS TO BE DISPOSED OF ON THE PROJECT SITE. RECYCLING OF USED OR UNUSED HAZARDOUS MATERIALS SHALL NOT OCCUR ON SITE EITHER. AREAS DESIGNATED FOR CEMENT TRUCK WASHOUTS, AND VEHICLE FUELING SHALL NOT TAKE PLACE ON PARKING LOT BASE.

CONSTRUCTION CHEMICAL COMPOUNDS NOTE:

NO MIXING OR STORAGE OF CHEMICAL COMPOUNDS SUCH AS FERTILIZERS, LIME, ASPHALT, OR CONCRETE ARE PERMITTED TO TAKE PLACE ON–SITE. ALL MIXING SHALL TAKE PLACE BEFORE ENTERING THE SITE.

CONSTRUCTION & DEMOLITION DEBRIS NOTE:

ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE SHALL BE DISPOSED OF IN AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY OHIO REVISED CODE (ORC) 3714. MATERIALS WHICH CONTAIN ASBESTOS MUST COMPLY WITH AIR POLLUTION REGULATIONS (SEE OHIO ADMINISTRATIVE CODE 3745–20).

CONTAMINATED SOILS NOTE:

SOILS CONTAMINATED BY PETROLEUM OR OTHER CHEMICAL SPILLS SHALL BE HANDLED AND DISPOSED OF PROPERLY. ALL CONTAMINATED SOILS MUST BE TREATED AND/OR DISPOSED OF IN AN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITY (TSDFs). IF CONTAMINATION HAPPENS TO OCCUR, TARPS ARE TO BE USED TO PREVENT STORM WATER FROM COMING INTO CONTACT WITH THE MATERIAL.

CONCRETE WASHOUT DETAIL

CONCRETE WASHOUT NOTE: CONCRETE WASHOUT OPERATIONS SHALL TAKE PLACE WITHIN THE PROPOSED PROJECT AREA UTILIZING THE CONTRACTOR'S PORTABLE CONCRETE WASHOUT CONTAINER OR WITHIN A BERMED/CONTAINED AREA. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE WASHOUT MATERIAL DOES NOT LEAVE THE WASHOUT AREA OR ENTER THE STORM SYSTEM. CONTRACTOR SHALL CLEAN UP AND PROPERLY DISPOSE OF ALL LEFTOVER WASHOUT MATERIAL.

DUST CONTROL

DUST CONTROL SHALL BE PROVIDED AS NEEDED TO PREVENT SEDIMENT FROM BECOMING AIRBORNE. MEASURES SHALL INCLUDE WATERING VIA A WATER TRUCK OR OTHER WATERING DEVICE AS NEEDED TO REDUCE AND/OR ELIMINATE AIRBORNE DUST CREATED BY CONSTRUCTION AND CONSTRUCTION RELATED ACTIVITIES.

PLACEMENT AND CONSTRUCTION OF DITCH CHECK FILTER FABRIC FENCE

PLACEMENT AND CONSTRUCTION OF PERIMETER FILTER FABRIC FENCE

CONSTRUCTION OF A FILTER BARRIER (SILT FENCE)

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.

2. ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.

3. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.

4. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.

5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5' (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.

6. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16" ABOVE THE ORIGINAL GROUND SURFACE.

7. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6" DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.

8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8" OF CLOTH IS BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6" DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.

9. SEAMS BETWEEN SECTIONS OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.

10. MAINTENANCE – SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. ALL THE GAPS AND TEARS IN THE FENCE MUST BE ELIMINATED AND REPAIRED. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.

CRITERIA FOR SILT FENCE MATERIAL:

1. FENCE POSTS – THE LENGTH SHALL BE A MINIMUM OF 48" LONG. WOOD POSTS WILL BE 2"–BY–2" HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 5'. POSTS/SUPPORT STAKES SHALL BE DRIVEN A MINIMUM OF 16" INTO THE GROUND.

2. SILT FENCE FABRIC SHALL CONFORM TO THE AASHTO SILT FENCE SPECIFICATION 100X AND SHALL HAVE A MINIMUM 100# GRAB TENSILE.

3. SILT FENCE SHALL BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PERMANENT STABILIZATION

ALL AREAS AT FINAL GRADE MUST BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF REACHING FINAL GRADE. THIS IS USUALLY ACCOMPLISHED BY USING SEED AND MULCH, BUT SPECIAL MEASURES ARE SOMETIMES REQUIRED. THIS IS PARTICULARLY TRUE IN DRAINAGE DITCHES/SWALES, LOW AREAS, DETENTION POND BOTTOMS AND SIDES OR ON STEEP SLOPES. THESE MEASURES INCLUDE, BUT ARE NOT LIMITED TO, THE INSTALLATION OF EROSION CONTROL BLANKETS AND/OR MATTING, ADDITION OF TOPSOIL, OR ROCK RIP–RAP. CONTRACTOR SHALL UTILIZE THESE AND ANY OTHER SPECIAL MEASURES AS NEEDED TO PERMANENTLY STABILIZE THE SITE. PERMANENT SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 AND AUGUST 1 TO SEPTEMBER 30. DORMANT SEEDING CAN BE DONE FROM NOVEMBER 20 TO MARCH 15. AT ALL OTHER TIMES OF THE YEAR, THE AREA SHOULD BE TEMPORARILY STABILIZED UNTIL A PERMANENT SEEDING CAN BE APPLIED.

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE.	WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE.
ANY AREAS WITHIN 50' OF A SURFACE WATER OF THE STATE (STREAM, WATERWAY, WATER BODY, ETC.) AND AT FINAL GRADE	WITHIN 2 DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE.	WITHIN 7 DAYS OF REACHING FINAL GRADE WITHIN THAT AREA.

SOILS EXPOSED NOTE:

CONTRACTOR SHALL PLAN AND IMPLEMENT CONSTRUCTION AND GRADING ACTIVITIES TO MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING CONSTRUCTION ACTIVITIES.

TEMPORARY SEEDING SPECIES SELECTION			
SEEDING DATES	SPECIES	L.B./1000 SQ. FT.	PER ACRE
MARCH 1 TO AUGUST 15	OATS TALL FESCUE ANNUAL RYEGRASS	3 1 1	4 BUSHELS 40 LBS. 40 LBS.
	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 1 1	40 LBS. 40 LBS. 40 LBS.
AUGUST 16 TO NOVEMBER 1	RYE TALL FESCUE ANNUAL RYEGRASS	3 1 1	2 BUSHELS 40 LBS. 40 LBS.
	WHEAT TALL FESCUE ANNUAL RYEGRASS	1 1 1	2 BUSHELS 40 LBS. 40 LBS.
	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 1 1	40 LBS. 40 LBS. 40 LBS.
NOVEMBER 1 TO SPRING SEEDING	USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING		
NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.			

SPECIFICATIONS FOR TEMPORARY SEEDING

1. TO MINIMIZE COSTS OF TEMPORARY STABILIZATION, LEAVE NATURAL COVER IN PLACE FOR AS LONG AS POSSIBLE. ONLY DISTURB AREAS YOU INTEND TO WORK WITHIN THE NEXT 14 DAYS.

2. STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE.

3. THE SEEDBED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. HOWEVER, TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.

4. SOIL AMENDMENTS – APPLICATIONS OF TEMPORARY VEGETATION SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.

5. SEEDING METHOD – SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY PLACED USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

MULCHING TEMPORARY SEEDING

1. APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES AND WITH FAVORABLE SOIL CONDITIONS AND ON VERY FLAT AREAS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.

2. MATERIALS:

A. STRAW – IF STRAW IS USED, IT SHALL BE UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/ACRE OR 90 LBS./1,000 SQ. FT. (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND–SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQ. FT. SECTIONS AND SPREAD TWO 45 LBS. BALES OF STRAW IN EACH SECTION.

B. HYDROSEEDERS – IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LB/AC. OR 46 LBS./1,000 SQ. FT.

C. OTHER – OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS/AC.

D. STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER. ANCHORING METHODS:

–MECHANICAL – A DISK, CRIMPER, OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED, BUT GENERALLY, BE LEFT LONGER THAN 6".

–MULCH NETTINGS – NETTINGS SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATION RUN OFF AND ON CRITICAL SLOPES.

–SYNTHETIC BINDERS – SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI–TAC), DCA–70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.

–WOOD CELLULOSE FIBER – WOOD–CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LBS./AC. THE WOOD–CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LBS./1000 GAL.

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITHIN 50' OF A SURFACE WATER OF THE STATE (STREAM, WATERWAY, WATER BODY, ETC.) AND NOT AT FINAL GRADE.	WITHIN 2 DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN 1 YEAR, AND NOT WITHIN 50' OF A SURFACE WATER OF THE STATE (STREAM, WATERWAY, WATER BODY, ETC.)	WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST 7 DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER
WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED.	

PERMANENT STABILIZATION

ODOT ITEM 659 SEEDING AND MULCHING, CLASS 1 (LAWN MIXTURE), AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 659, SEEDING AND MULCHING, EXCEPT AS HEREIN MODIFIED.

ALL DISTURBED AREAS OR AREAS DESIGNATED FOR SEEDING SHALL BE GRADED AND SEEDED AND SHALL HAVE A MINIMUM OF 6" OF TOPSOIL OVER THE ENTIRE AREA. TESTING THE PH OF ANY EXISTING OR IMPORTED TOPSOIL PER ODOT 659.02 SHALL BE WAIVED. THE AREA SHALL BE HAND–RAKED AND DRESSED READY FOR SEEDING. NO STONE OVER 1" IN SIZE PERMITTED IN THE TOP 6".

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL.

IT'S THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE THE REQUIRED GERMINATION RATES AND ENSURE THE GRASS IS ESTABLISHED TO THE SATISFACTION OF THE OWNER WHICH MAY REQUIRE WATERING, REGRADING/ADDING TOPSOIL AND RESEEDING.
ANY AREAS THAT HAVE ERODED OR WHERE NEW GRASS DID NOT GERMINATE SHALL BE ADDRESSED BY THE CONTRACTOR UNTIL THE AREAS ARE STABILIZED, SHAPED, AND DRAINED, AS INDICATED IN THE PLANS.

ANY DISTURBED AREA, OUTSIDE OF THE PROJECT WORK LIMITS, CAUSED BY THE CONTRACTOR'S WORK, SHALL BE RESTORED TO THE SATISFACTION OF THE PROPERTY OWNER AND PROJECT OWNER'S REPRESENTATIVE, AT THE CONTRACTOR'S SOLE EXPENSE.

THIS ITEM INCLUDES: TOPSOIL, SEEDING, MULCHING, COMMERCIAL FERTILIZER, WATER, AND REPAIR SEEDING AND MULCHING.

THE ABOVE SHALL BE INCIDENTAL TO THE PROJECT.

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E-81748

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Fire Station No. 65
1777 Trebein Road, Beavercreek Township, Ohio 45385

ISSUE:

NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION

DATE	04/03/2020
JOB NO.	GREBEV1703
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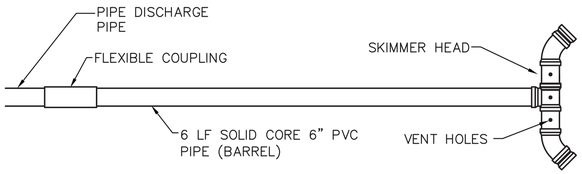
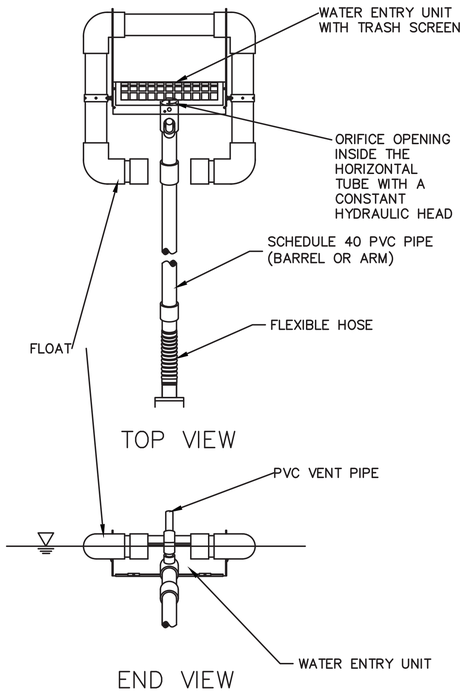
TITLE
SWPPP NOTES & DETAILS

SHEET NO.
C8.1



IAS SKIMMER

SCALE: NONE

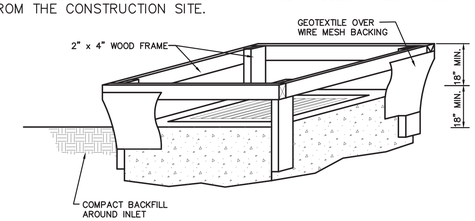


FAIRCLOTH SKIMMER

SCALE: NONE

INLET PROTECTION FOR STORM STRUCTURES W/ GRATE

INLET PROTECTION MAY CONSIST OF SEDIMENT FENCE AND/OR DEVICES SUCH AS FLEX STORM INLET FILTERS, SEDCAGE (WWW.SEDCATCH.COM), DANDY BAGS, SEDIGUARD FILTERS, OR OTHER DEVICES (ALTERNATE PRODUCTS WHOSE PERFORMANCE IS EQUAL TO OR EXCEEDS THOSE LISTED) WHICH ARE EFFECTIVE AT MINIMIZING THE AMOUNT OF SEDIMENT ENTERING THE STRUCTURE . INSTALL INLET PROTECTION ON ALL PROPOSED YARD DRAINS, CATCH BASINS AND MANHOLES WITH GRATED LIDS AND TO ALL EXISTING STORM STRUCTURES WITH GRATED LIDS WITHIN THE PROJECT AREA WHICH MAY RECEIVE RUNOFF FROM THE CONSTRUCTION SITE.



INLET PROTECTION IN SWALES, DITCH LINES OR YARD INLETS

1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.

2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH OF AT LEAST 18".

3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2" BY 4" CONSTRUCTION GRADE LUMBER. THE 2" BY 4" POST SHALL BE DRIVEN 1' INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2" BY 4" FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6" BELOW ADJACENT ROAD, IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.

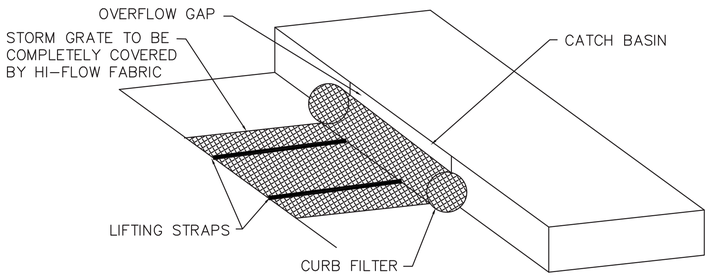
4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.

5. GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18" BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAY ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.

6. BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6" LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.

7. A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION, AND IF RUNOFF BY PASSING THE INLET WILL NOT FLOW TO A SETTING POND, THE TOP OF EARTH DIKES SHALL BE AT LEAST 6" HIGHER THAN THE TOP OF THE FRAME.

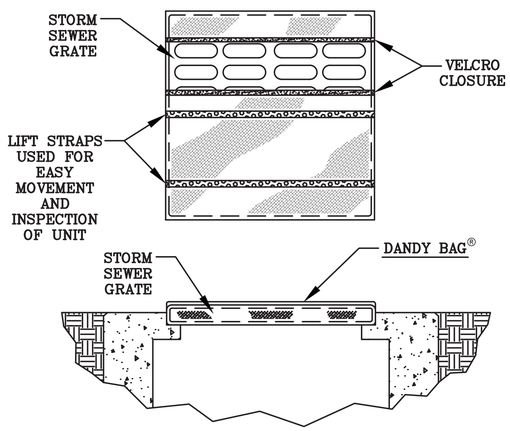
CURB INLET SEDIMENT FILTER



CURB INLET SEDIMENT FILTER NOTES

A. DANDY CURB BAG, SEDIGUARDS, OR ALTERNATE PRODUCT WHOSE PERFORMANCE IS EQUAL TO OR EXCEEDS THOSE LISTED MAY BE USED.
B. REMOVE SEDIMENT FROM CURB INLET PROTECTION BEFORE IT HINDERS THE FILTERING CAPACITY.
– DANDY CURB BAG: LIFT GRATE AND REMOVE DANDY BAG, CLEAN ACCUMULATED SEDIMENT AND REPLACE BAG AS REQUIRED BY MANUFACTURER.
– SEDIGUARD: CLEAN SEDIGUARD ONCE IT IS DRY WITH A STIFF BROOM AFTER EVERY RAIN.
–ALTERNATE PRODUCTS: CLEAN AS REQUIRED PER MANUFACTURER'S RECCOMENDATIONS
C. INLET PROTECTION SHOULD NEVER INTERFERE WITH SAFETY OF ACTIVE TRAFFIC.

DANDY BAG®



DETAIL OF INLET SEDIMENT CONTROL DEVICE

DANDY BAG®
SPECIFICATIONS

NOTE: THE DANDY BAG® WILL BE **MANUFACTURED IN THE U.S.A.** FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

HI-FLOW DANDY BAG® (SAFETY ORANGE)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 X 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) X 0.33 (75)
UV Resistence	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m² (gal/min/ft²)	5907 (145)
Permittivity	ASTM D 4491	Sec^{-1}	2.1

*Note: All Dandy Bags® can be ordered with optional oil absorbent pillows

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MICHAEL LEWIS SEEGER
E-81748
REGISTERED
PROFESSIONAL ENGINEER

Beavrcreek Township
Fire Station No. 65
1777 Trebein Road, Beavercreek Township, Ohio 45385

ISSUE:

NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION

DATE	04/03/2020
JOB NO.	GREBEV1703
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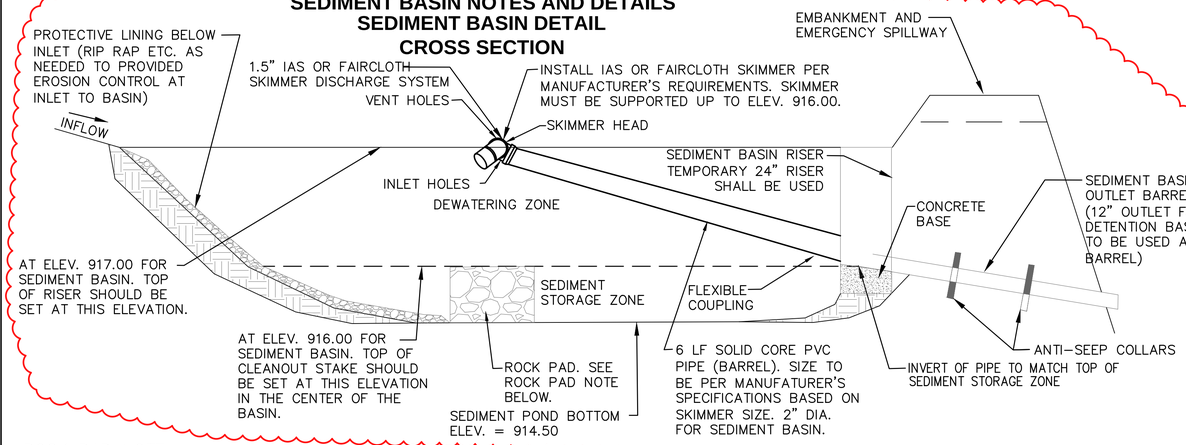
TITLE
SWPPP NOTES & DETAILS

SHEET NO.
C8.2

SEDIMENT BASIN NOTES AND DETAILS
SEDIMENT BASIN DETAIL
CROSS SECTION



SEDIMENT BASIN CONVERT TO SITE DETENTION BASIN NOTE:
UPON COMPLETION OF THE PROJECT, IF THE SEDIMENT BASIN IS TO SERVE AND FUNCTION AS A SITE DETENTION/RETENTION BASIN, ALL SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT BASIN WHICH IS ABOVE ITS PROPOSED FINAL SURFACE GRADES THROUGHOUT THE BASIN AND ALSO AS NEEDED TO PLACE ANY REQUIRED TOPSOIL. UPON PROJECT COMPLETION AND FINAL CLEANING, THE SEDIMENT BASIN SHOULD BE ESTABLISHED TO ITS PROPOSED RETENTION/DETENTION BASIN DESIGN INCLUDING CAPACITY, GRADES AND OUTLETS.

ROCK PAD NOTE:
IT IS VERY IMPORTANT THAT A ROCK PAD BE CONSTRUCTED TO THE HEIGHT OF THE TOP OF THE SEDIMENT STORAGE ZONE. IF THIS IS NOT DONE OR IF THE PAD IS NOT BUILT TO THE SAME HEIGHT AS THE TOP OF THE SEDIMENT STORAGE ZONE, THE SKIMMER WILL NOT FUNCTION PROPERLY .

WHEN COMPLETE THE IAS FLEXIBLE COUPLING SHOULD BE LYING FLAT ON THE ROCK PAD. THE UNIT WILL BE TOUCHING AT TWO POINTS: THE TOP OF THE BARREL/MIDDLE OF THE SKIMMER HEAD AND THE POINT AT WHICH THE BARREL IS ATTACHED TO THE IAS FLEXIBLE COUPLING. SEE MANUFACTURER'S ASSEMBLY INSTRUCTIONS.

SEDIMENT BASIN NOTES:
1. SEDIMENT BASINS SHALL BE CONSTRUCTED AND OPERATIONAL BEFORE UPSLOPE LAND DISTURBANCE BEGINS.

2. SITE PREPARATION –THE AREA UNDER THE EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED AS NEEDED TO FACILITATE SEDIMENT CLEANOUT. GULLIES AND SHARP BREAKS SHALL BE SLOPED TO NO STEEPER THAN 1:1. THE SURFACE OF THE FOUNDATION AREA WILL BE THOROUGHLY SCARIFIED BEFORE PLACEMENT OF THE EMBANKMENT MATERIAL.

3. EMBANKMENT –THE FILL MATERIAL SHALL BE FREE OF ALL SOD, ROOTS, FROZEN SOIL, STONES OVER 6 IN. IN DIAMETER, AND OTHER OBJECTIONABLE MATERIAL. THE PLACING AND SPREADING OF THE FILL MATERIAL SHALL BE STARTED AT THE LOWEST POINT OF THE FOUNDATION AND THE FILL SHALL BE BROUGHT UP IN APPROXIMATELY 6 IN. HORIZONTAL LAYERS OR OF SUCH THICKNESS THAT THE REQUIRED COMPACTION CAN BE OBTAINED WITH THE EQUIPMENT USED. CONSTRUCTION EQUIPMENT SHALL BE OPERATED OVER EACH LAYER IN A WAY THAT WILL RESULT IN THE REQUIRED COMPACTION. SPECIAL EQUIPMENT SHALL BE USED WHEN THE REQUIRED COMPACTION CANNOT BE OBTAINED WITHOUT IT. THE MOISTURE CONTENT OF FILL MATERIAL SHALL BE SUCH THAT THE REQUIRED DEGREE OF COMPACTION CAN BE OBTAINED WITH THE EQUIPMENT USED. THE EMBANKMENTS OF THE SEDIMENT BASIN AND THE AREAS THAT LIE DOWNSTREAM OF THE POND MUST BE STABILIZED.

4. PIPE SPILLWAY –THE PIPE CONDUIT BARREL SHALL BE PLACED ON A FIRM FOUNDATION TO THE LINES AND GRADES SHOWN ON THE PLANS. CONNECTIONS BETWEEN THE RISER AND BARREL, THE ANTI–SEEP COLLARS AND BARREL AND ALL PIPE JOINTS SHALL BE WATERTIGHT. SELECTED BACKFILL MATERIAL SHALL BE PLACED AROUND THE CONDUIT IN LAYERS AND EACH LAYER SHALL BE COMPACTED TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. ALL COMPACTION WITHIN 2 FT. OF THE PIPE SPILLWAY WILL BE ACCOMPLISHED WITH HAND–OPERATED TAMPING EQUIPMENT.

5. RISER PIPE BASE –THE RISER PIPE SHALL BE SET A MINIMUM OF 6 IN. IN THE CONCRETE BASE.

6. TRASH RACKS –THE TOP OF THE RISER SHALL BE FITTED WITH TRASH RACKS FIRMLY FASTENED TO THE RISER PIPE.

7. SEED AND MULCH –THE SEDIMENT BASIN SHALL BE STABILIZED IMMEDIATELY FOLLOWING ITS CONSTRUCTION. IN NO CASE SHALL THE EMBANKMENT OR EMERGENCY SPILLWAY REMAIN BARE FOR MORE THAN 7 DAYS.

8. SEDIMENT CLEANOUT –SEDIMENT SHALL BE REMOVED AND THE SEDIMENT BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT FILLS TO THE DESIGN DEPTH OF THE SEDIMENT STORAGE ZONE. THIS ELEVATION SHALL BE MARKED ON A CLEANOUT STAKE NEAR THE CENTER OF THE BASIN. SEDIMENT REMOVED FROM THE BASIN SHALL BE PLACED SO THAT IT WILL NOT ERODE.

9. FINAL REMOVAL – SEDIMENT BASINS SHALL BE REMOVED AFTER THE UPSTREAM DRAINAGE AREA IS STABILIZED OR AS INDICATED IN THE PLANS. DEWATERING AND REMOVAL SHALL NOT CAUSE SEDIMENT TO BE DISCHARGED. THE SEDIMENT BASIN SITE AND SEDIMENT REMOVED FROM THE BASIN SHALL BE STABILIZED.

OPERATIONS AND MAINTENANCE:
SEDIMENT BASINS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT.
NECESSARY ACTIVITIES ARE SHOWN AS FOLLOWS:

1. ESTABLISH VEGETATIVE COVER AND FERTILIZE AS NECESSARY TO MAINTAIN A VIGOROUS COVER IN AND AROUND THE SEDIMENT BASIN.

2. REMOVE UNDESIRABLE VEGETATION PERIODICALLY TO PREVENT GROWTH OF TREES AND SHRUBS ON THE EMBANKMENT AND SPILLWAY AREAS.

3. PROMPTLY REPAIR ERODED AREAS. REESTABLISH VEGETATIVE COVER IMMEDIATELY WHERE SCOUR EROSION HAS REMOVED ESTABLISHED SEEDING.

4. PROMPTLY REMOVE ANY BURROWING RODENTS THAT MAY INVADE AREAS OF THE EMBANKMENT.

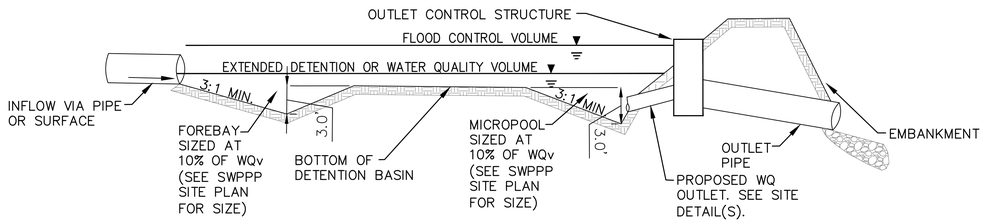
5. REMOVE TRASH AND DEBRIS THAT MAY BLOCK SPILLWAYS AND ACCUMULATE IN THE POND.

6. CHECK SPILLWAY OUTLETS AND POINTS OF INFLOW TO ENSURE DRAINAGE IS NOT CAUSING EROSION AND THAT OUTLETS ARE NOT CLOGGED. REPLACE DISPLACED RIPRAP IMMEDIATELY.

SEDIMENT BASIN CALCULATIONS

SEDIMENT BASIN #1
REQUIRED SEDIMENT STORAGE VOLUME = 37 C.Y./ACRE * 1.55 ACRES = 58 C.Y.
TOP OF SEDIMENT STORAGE ZONE ELEVATION = 916.00 (73 C.Y.). SET CLEANOUT STAKE AT THIS ELEVATION.
REQUIRED DEWATERING ZONE VOLUME = 67 C.Y./ACRE * 1.55 ACRES = 104 C.Y.
DEWATERING ZONE VOLUME (BETWEEN 916.00 AND 917.00) = 127 C.Y.
TOTAL BASIN VOLUME REQUIRED TO TOP OF DEWATERING ZONE = 58 C.Y. + 104 C.Y. = 162 C.Y.
TOP OF DEWATERING ZONE ELEVATION = 917.00
TOTAL SEDIMENT BASIN VOLUME PROVIDED TO ELEV. 918.00 = 376 C.Y.
RISER AND BARREL: PROPOSED 12" DETENTION OUTLET AND TEMPORARY 24" RISER ARE TO BE USED AS OUTLET FOR SEDIMENT BASIN.
EMERGENCY SPILLWAY: EMERGENCY SPILLWAY TO BE TRAPEZOIDAL WITH A BOTTOM WIDTH OF 10'.
DEWATERING TIME : 1.625 DAYS
104 C.Y. * 27 = 2,808 C.F. VOLUME TO BE DEWATERED
USING A **FAIRCLOTH/IAS** WATER QUALITY SKIMMER WITH A 1.5" SKIMMER SIZE, IT DISCHARGES 1,728 CF PER 24 HOURS
THEREFORE IT WILL TAKE 1.625 DAYS TO DEWATER THIS SEDIMENT BASIN.

FINAL DETENTION BASIN



FOREBAY AND MICROPOOL DETAIL FOR DETENTION BASIN

TYPICAL MAINTENANCE ACTIVITIES FOR DETENTION BASINS:
POTENTIAL POLLUTANT SOURCES POST CONSTRUCTION THAT SHOULD BE MONITORED INCLUDE: TRASH, FERTILIZERS, GRAINS, HERBICIDES, PESTICIDES, LAWN TREATMENT APPLICATIONS ALONG WITH ASSORTED FUELS, OILS, GREASE, HYDRAULIC FLUID, AND OTHER VEHICULAR FLUIDS ASSOCIATED WITH TRAFFIC THROUGHOUT THE DEVELOPED SITE.

MONTHLY: MOW EMBANKMENT AND CLEAN TRASH AND DEBRIS FROM OUTLET STRUCTURE. ADDRESS ANY ACCUMULATION OF HYDROCARBONS.
ANNUALLY: INSPECT EMBANKMENT AND OUTLET STRUCTURE FOR DAMAGE AND PROPER FLOW. REMOVE WOODY VEGETATION AND FIX ANY ERODING AREAS. MONITOR SEDIMENT ACCUMULATIONS IN FOREBAY AND MAIN POOL.
SEMI–ANNUALLY: INSPECT WETLAND AREAS FOR INVASIVE PLANS
3–7 YEARS: REMOVE SEDIMENT FROM FOREBAYS.
15–20 YEARS: MONITOR SEDIMENT ACCUMULATIONS IN THE MAIN POOL AND CLEAN AS POND BECOMES EUTROPHIC OR POOL VOLUME IS REDUCED SIGNIFICANTLY.

NOTE: MICROPOOL IS NOT TO BE PROVIDED IF DRY WELL IS INSTALLED ON SITE. (1)

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STATE OF OHIO
MICHAEL LEWIS SEEGER
E-81748
REGISTERED
PROFESSIONAL ENGINEER

Beavrcreek Township
Fire Station No. 65
1777 Trebein Road, Beavercreek Township, Ohio 45385

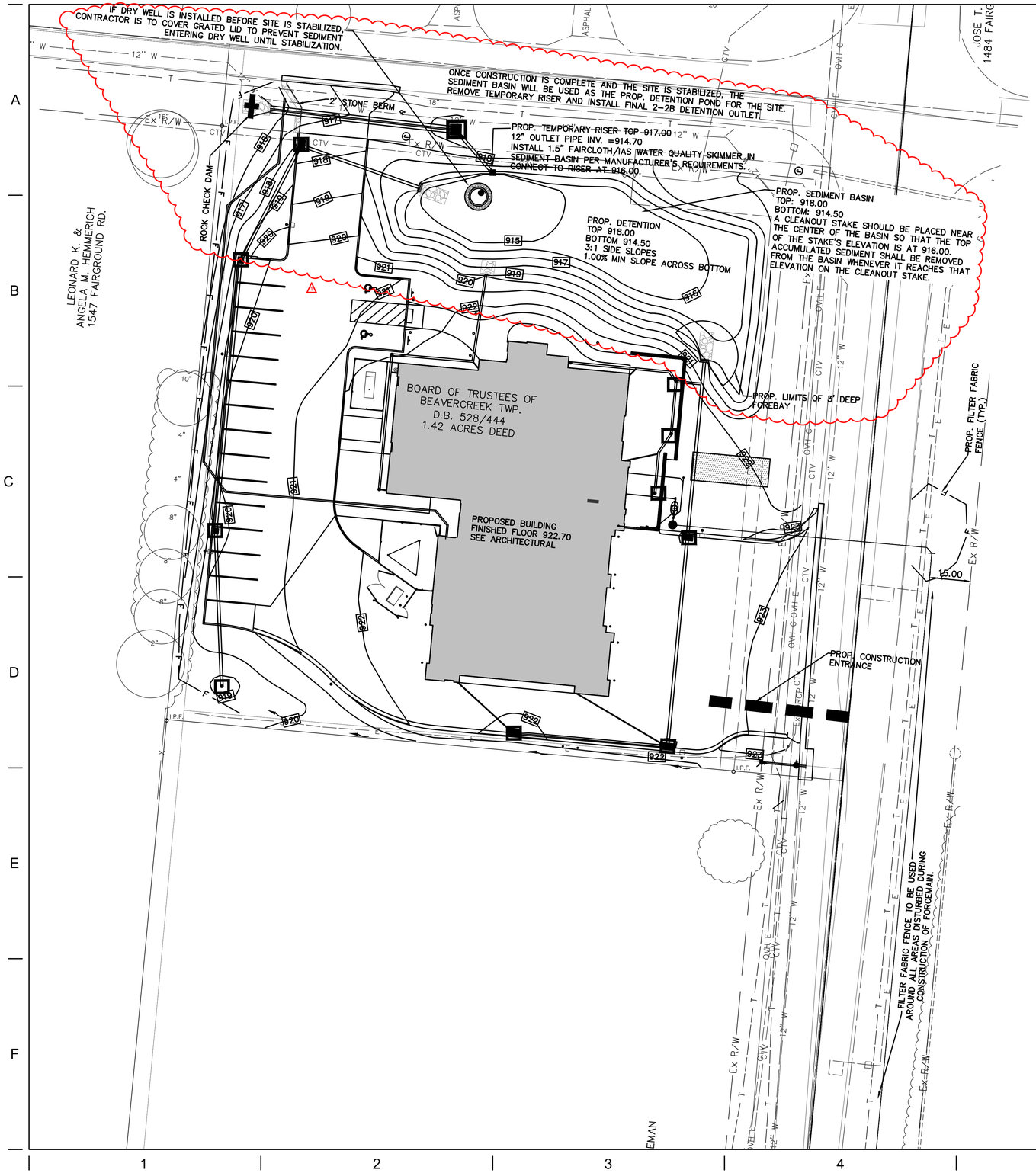
ISSUE:

NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION
1	08-10-18	ADDENDUM 1
(1)	09/11/2020	BULLETIN #1

DATE	04/03/2020
JOB NO.	GREBEV1703
DRAWN	TAN
CHECKED	MLS
CAD	---

TITLE
SWPPP NOTES & DETAILS

SHEET NO.
C8.3



SCALE IN FEET
0 10 20 40

BENCHMARK #1	ELEV. 921.81 MAG NAIL IN POWER POLE NORTH WEST CORNER INTERSECTION TREBIEN AND FAIRGROUND.
BENCHMARK #2	ELEV. 923.89 MAG NAIL IN POWER POLE SOUTH EAST CORNER PROPERTY WEST SIDE TREBEIN ROAD.

LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED STORM SEWER
- PROPOSED EDGE PAVEMENT
- PROPOSED CURB
- PROPOSED FILTER FABRIC FENCE MEASURE
- PROPOSED INLET PROTECTION
- PROPOSED CONSTRUCTION ENTRANCE
- PROPOSED DITCH CHECK/ROCK CHECK DAM

THIS AREA IS TO BE USED FOR VEHICLE FUELING AND MAINTENANCE. AN ABOVE GROUND STORAGE TANK OF LESS THAN 500 GALLONS WILL BE USED AS THE FUEL SOURCE. THIS AREA WILL ALSO BE USED FOR RECEIVING CONCRETE CHUTE AND OTHER CONCRETE WASH WATERS. THIS SHALL NOT OCCUR ON STREET SUBGRADE OR BASE.

WATER QUALITY AND POST CONSTRUCTION STORM WATER MANAGEMENT AND TREATMENT:
POST CONSTRUCTION WATER QUALITY TO BE MET VIA INFILTRATION

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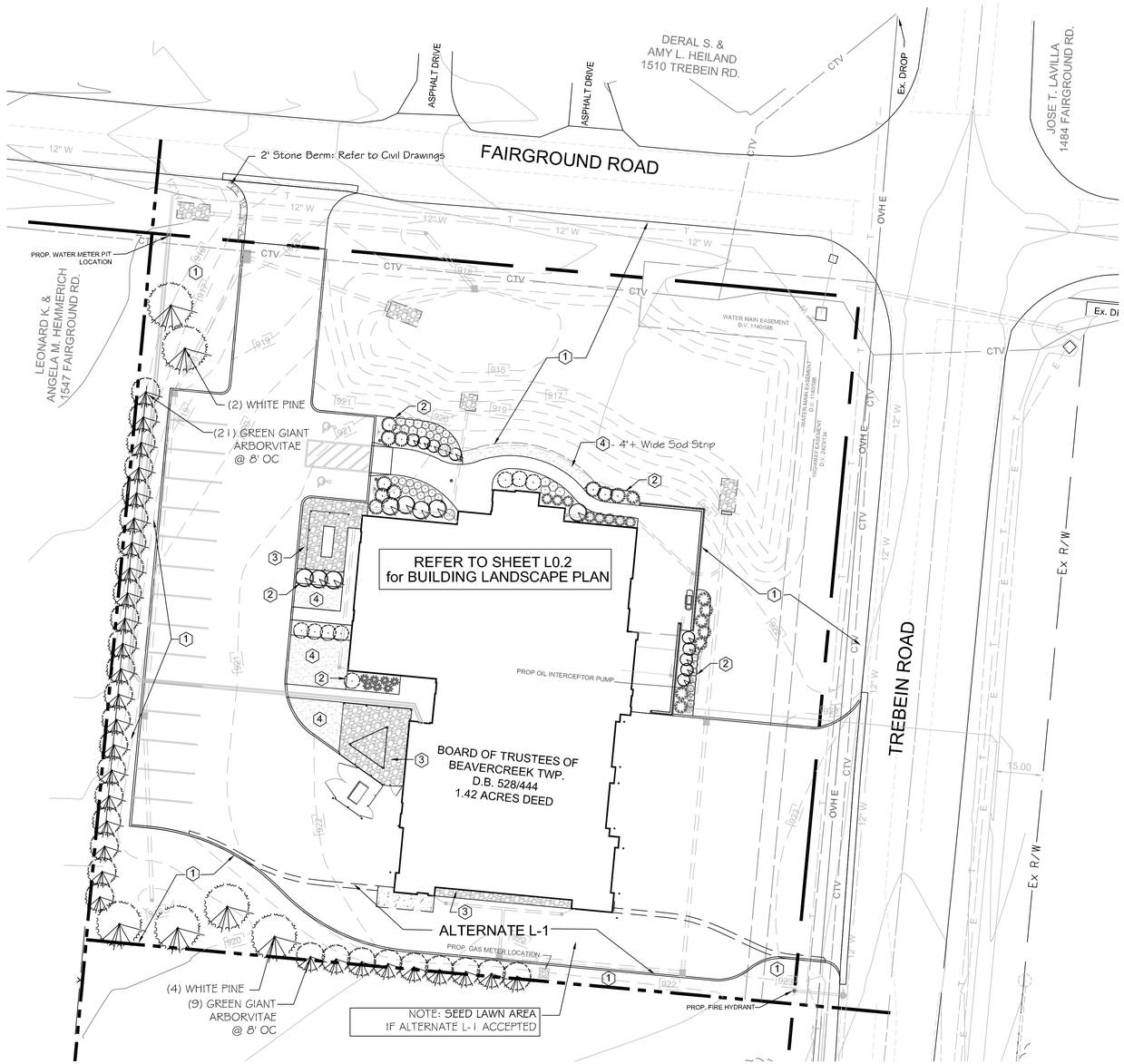
CAD	---

TITLE
SWPPP PLAN

SHEET NO.
C8.4



KEY NOTES

1. SEED.
2. DENOTES SPADE-CUT BED EDGE SEPARATING MULCH BED FROM LAWN AREA.
3. DENOTES "Chestnut" GRAVEL MULCH ON FILTER FABRIC PROVIDE 5 LB. SAMPLE FOR OWNER APPROVAL.
4. SOD.

SITE LANDSCAPE PLAN

SCALE: 1" = 20'

0 20 40 60 80

GRAPHIC SCALE

LANDSCAPE ARCHITECT:
YELLOW SPRINGS DESIGN
PO Box 472 205 PARK MEADOWS DR.
YELLOW SPRINGS, OHIO 45387
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yellowspringsdesign@blzwoh.rr.com
LICENSED IN: OH, KY, PA, IN, IL, MS, MI, VA, TX, OK, AZ, CO & UT

PLANT MATERIALS LIST - Both sheets

QTY.	PLANT NAME	MINIMUM INSTALLED SIZE
	EVERGREEN TREES	
6	WHITE PINE - Pinus strobus *	6' ht. B/B
30	GREEN GIANT ARBORVITAE - Thuja plicata 'Green Giant' *	6' ht. B/B
	SHRUBS	
4	CHOKECHERRY - Aronia melanocarpa *	#2 cont.
4	RUBY SLIPPERS HYDRANGEA - Hydrangea quercifolia 'Ruby Slippers' *	# 3 cont.
10	GREY OWL JUNIPER - Juniperus virginiana 'Grey Owl'	# 3 cont.
10	KNOCKOUT ROSES - Rosa x 'Radrazz'	# 2 cont.
8	DENSE YEW - Taxus media densiformis	24" B/B
	PERENNIALS/ GRASSES	
1	SHASTA DAISY - Leucanthemum superbum 'Snowcap' *	#1 cont.
10	PURPLE CONEFLOWER - Echinacea purpurea *	#1 cont.
7	PARDON ME DAYLILIES - Hemerocallis x 'Pardon Me'	#1 cont.
11	STELLA D'ORO DAYLILIES - Hermerocallis x 'Stella d'Oro'	#2 cont.
7	PATRIOT HOSTA - Hosta x 'Patriot'	#2 cont.
8	BLACKEYED SUSAN - Rudbeckia fulgida 'Goldsturm' *	#2 cont.
8	FEATHER REED GRASS - Calamagrostis acutiflora 'Karl Foerster'	#3 cont.
6	SWITCH GRASS - Panicum virgatum *	#3 cont.

* DENOTES OHIO LOCAL NATIVE or NATIVE-BASE CULTIVAR PLANTS.

GENERAL LANDSCAPE REQUIREMENTS

1. DIAMETERS OF PLANT MATERIALS AS DRAWN ARE REPRESENTATIVE OF PLANTS AT OR NEAR MATURITY RATHER THAN AT INITIAL PLANTING.
2. THE PLANT LIST IS INTENDED AS A GUIDE FOR THE LANDSCAPE CONTRACTOR. IN THE EVENT OF DISCREPANCY BETWEEN THE NUMBER OF PLANTS ON THE PLANT LIST AND ON THE DRAWING, THE GREATER NUMBER SHALL APPLY.
3. ADJUSTMENTS IN LOCATIONS OF PLANT MATERIALS MAY BE NECESSARY DUE TO NEW OR EXISTING UTILITIES OR SITE OBSTRUCTIONS. ADVISE ARCHITECTS REPRESENTATIVE BEFORE ADJUSTMENTS ARE MADE.
4. ALL SHRUBS OCCURRING IN CONTINUOUS ROW OR FORMAL ARRANGEMENT SHALL HAVE UNIFORM HEIGHT, SPREAD AND HABIT OF GROWTH. FOR PERENNIAL LOCATIONS, FILL AREA WITH QUANTITY OF PLANTS DESIGNATED; EVENLY SPACED.
5. A MINIMUM OF 8" DEPTH OF NEW TOPSOIL SHALL BE PLACED IN ALL NEW BED AREAS BY LANDSCAPE CONTRACTOR PRIOR TO PLANT INSTALLATION. BACKFILL ALL SHRUBS AND TREES WITH A UNIFORM MIXTURE OF 1 PART SPHAGNUM PEAT MOSS AND 2 PARTS TOPSOIL. BACKFILL ALL PERENNIAL PLANTS WITH A BACKFILL MIX OF ONE PART COMPOST TO ONE PART TOPSOIL. BACKFILL TAXUS WITH ONE PART SAND & ONE PART COMPOST TO ONE PART TOPSOIL.
6. MULCH TREES AND SHRUBS WITH MIN. 3" DEPTH OF SHREDDED HARDWOOD MULCH. MULCH PERENNIALS WITH 2" DEPTH OF MULCH. MULCH SHALL EXTEND IN A CONTINUOUS LAYER WITHIN PLANTING BEDS FROM FACE TO FACE OF SITE STRUCTURES - WALKS, BUILDING, CURBS, OR OTHER PLANT BED LIMITS.
7. ALL BED EDGES SHALL BE SPADE-CUT AND CLOSELY ALIGN AS POSSIBLE WITH EDGES AS SHOWN ON DRAWING. KEEP MULCH A MIN. 1/2" BELOW ADJACENT PAVED SURFACES.
8. SEED ALL LAWN DISTURBED AREAS WITHIN PROJECT LIMITS AS NOTED ON DRAWINGS; INCLUDING OUT TO PAVEMENT EDGES. REFER TO CIVIL DRAWINGS AND VERIFY EXTENT WITH PROJECT ARCHITECTS REPRESENTATIVE.
9. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE YEAR FROM DATE OF OF ACCEPTANCE. PRIOR TO END OF WARRANTY PERIOD CONTRACTOR SHALL REPLACE ALL TREES, SHRUBS OR PLANTINGS NOT ALIVE OR IN A HEALTHY GROWING CONDITION.

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STATE OF OHIO
ROGER E. BEAL
443
REGISTERED LANDSCAPE ARCHITECT

NAME: ROGER E. BEAL
REGISTRATION NO: LA 8100433
EXPIRATION: 12/31/20

Beavrcreek Township

Fire Station No. 65

1777 Trebein Road. Beavercreek Township, Ohio 45385

ISSUE:

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DATE	04/03/2020
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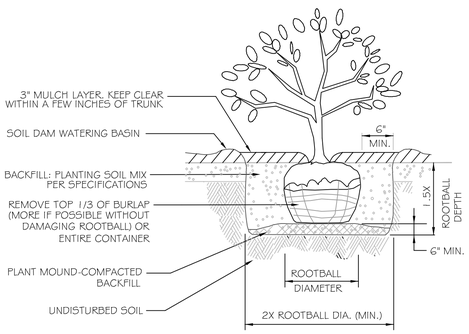
DRAWN	reb
CHECKED	reb
CAD	reb

TITLE
LANDSCAPE PLAN

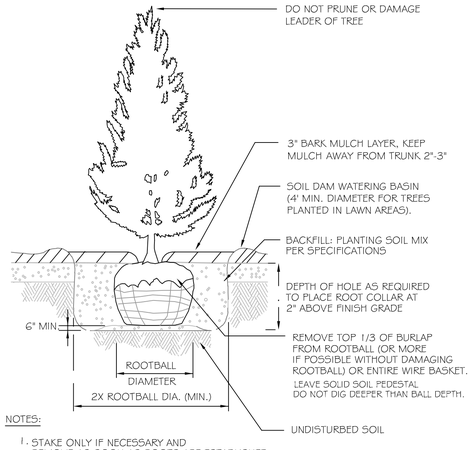
SHEET NO.
L0.1

PLANT INSTALLATION DETAILS



SHRUB PLANTING DETAIL

NTS

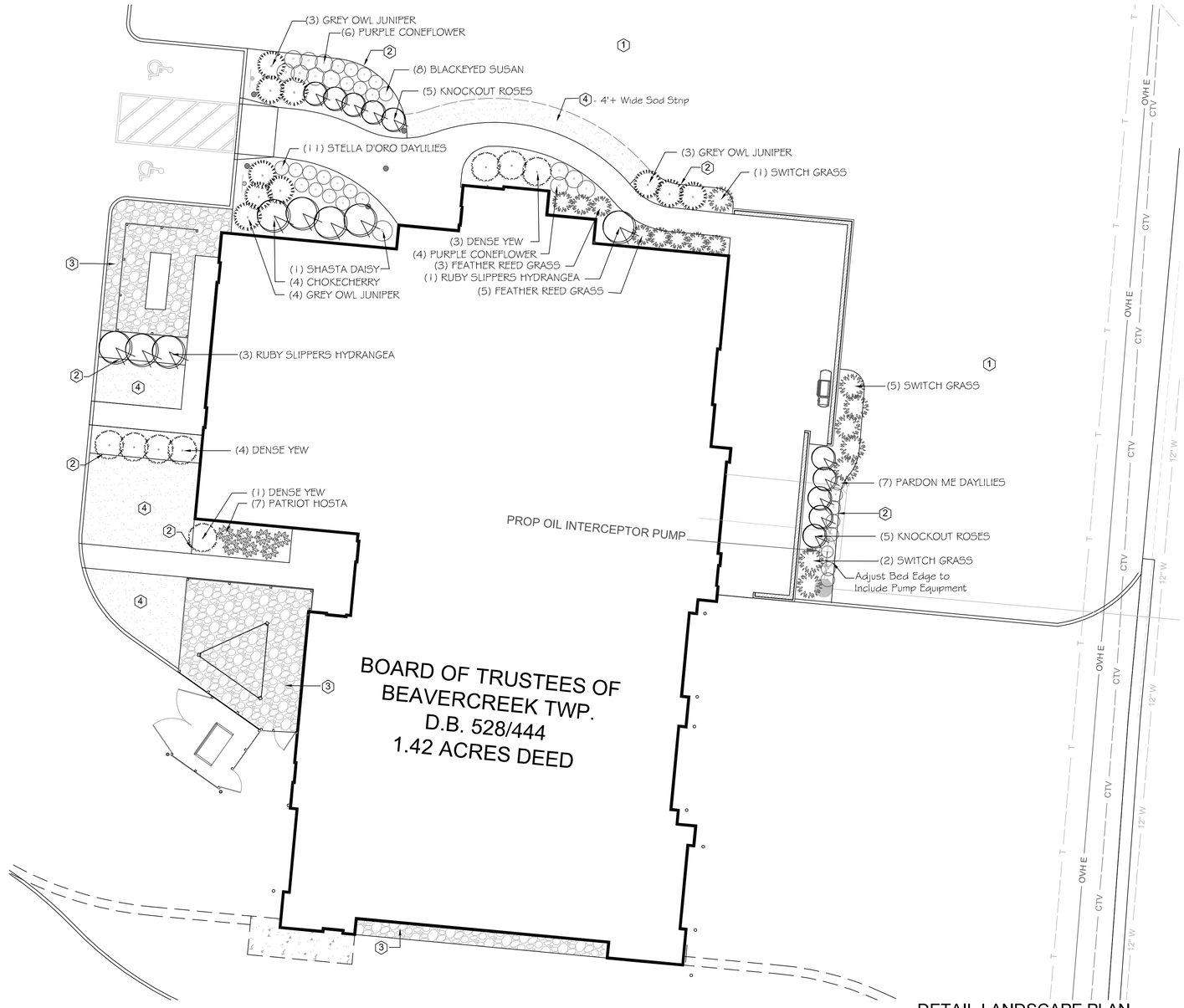


NOTES:

1. STAKE ONLY IF NECESSARY AND REMOVE AS SOON AS ROOTS ARE ESTABLISHED (USUALLY ONE YEAR).

EVERGREEN TREE PLANTING DETAIL

NTS



KEY NOTES

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2. DENOTES SPADE-CUT BED EDGE SEPARATING MULCH BED FROM LAWN AREA.
3. DENOTES "Chestnut" GRAVEL MULCH ON FILTER FABRIC PROVIDE 5 LB. SAMPLE FOR OWNER APPROVAL.
4. SOD.

DETAIL LANDSCAPE PLAN

SCALE: 1" = 10'

0 10 20 30 40

GRAPHIC SCALE

LANDSCAPE ARCHITECT:
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STATE OF OHIO
ROGER E. BEAL
4433
REGISTERED LANDSCAPE ARCHITECT

NAME: ROGER E. BEAL
REGISTRATION NO: LA #100433
EXPIRATION: 12/31/20

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CAD	reb

TITLE
BUILDING LANDSCAPE PLAN

SHEET NO.
L0.2

4/1/2020 2:53:27 PM

ABBREVIATIONS

SYMBOL	
@	AT
&	AND
∠	ANGLE
Ø	DIAMETER
℄	CENTER LINE
⌭	CHANNEL
O²	OXYGEN
⏥	PLATE

A	
A	AIR (MEDICAL)
ABV	ABOVE
A/C	AIR CONDITIONING
APC	ACOUSTICAL PANEL CEILING
ADJ	ADJACENT OR ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLER UNIT
AL	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
ANCH	ANCHOR
AP	ACCESS PANEL
APPOX	APPROXIMATELY
ARCH	ARCHITECT OR ARCHITECTURAL
ATTEN	ATTENUATED
AUTO	AUTOMATIC
AUX	AUXILIARY
AVG	AVERAGE

B	
BC	BASE CABINETS
BLDG	BUILDING
BD	BOARD
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BUR	BUILT-UP ROOF

C	
C	CARPET
CAB	CABINET
CB	CATCH BASIN
C/C	CENTER TO CENTER
CEM	CEMENT
CF	CUBIC FOOT
CG	CORNER GUARD
CIR	CIRCLE
CJ	CONTROL JOINT
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR
CMT	CERAMIC MOSAIC TILE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUE
CPU	CENTRAL PROCESSING UNIT (COMPUTER)
CRS	COURSE OR COURSING
CY	CUBIC YARD

D	
DBL	DOUBLE
DEMO	DEMOLISH, DEMOLITION
DEV	DEVELOPMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DS	DOWNSPOUT
DR	DOOR
DRWG	DRAWING
DET	DETAIL

E	
E	EAST
EA	EACH
EC	ELECTRICAL CONTRACTOR
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATION OR ELEVATOR
EMERG	EMERGENCY
EP	ELECTRICAL PANEL
EPT	EPOXY PAINT
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST OR EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR

F	
FAB	FABRICATED OR FABRICATING
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FIN	FINISH OR FINISHED
FLR	FLOOR
FND	FOUNDATION
FRT	FIRE RETARDANT TREATED WOOD
FT	FOOT OR FEET OR FULLY TEMPERED
FTG	FOOTING
FUR	FURRING
FV	FIELD VERIFY
FOW	FACE OF WALL

G	
GA	GUAGE OR GAGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GD	GRADE OR GRADING
GEN	GENERAL
GL	GLASS OR GLAZING
GND	GROUND
GYP	GYPSUM
GWB	GYPSUM BOARD
GWT	GLAZED WALL TILE

H	
HB	HOSE BIBB
HD	HEAD
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPDL	HIGH PRESSURE DECORATIVE LAMINATE
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTILATING & AIR CONDITION
HWD	HARDWARE

I	
ID	INSIDE DIAMETER
IG	INSULATED GLASS
IN	INCH
INCL	INCLUDE (D) (ING)
INT	INTERIOR
INV	INVERT
IV	INTRAVENOUS

J	
JB	JUNCTION BOX
JC	JANITOR CLOSET

K	
K	KIPS
KT	KITCHEN

L	
L	LONG
LAV	LAVATORY
LBS	POUNDS
LCD	LIQUID CRYSTAL DISPLAY (MONITOR)
LH	LEFT HAND
LIN	LINEAR
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT	LIGHT
LTL	LINTEL
LVR	LOUVER

M	
M	MEN OR METER
MAS	MASONRY
MAT	MATERIAL OR WALKOFF MAT
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MED	MEDICINE
MFR	MANUFACTURER
MH	MOUNTING HEIGHT, MANHOLE
MIL	THOUSANDTHS OF AN INCH
MM	MILLIMETER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL

N	
N	NORTH OR NITROGEN
NAT	NATURAL
NC	NURSE CALL
NIC	NOT IN CONTRACT
NO	NUMBER OR NITROUS OXIDE
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE

O	
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED. CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED. OWNER INSTALLED
OH	OVERHEAD
OHD	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
OX	OXYGEN

P	
PAR	PARALLEL
PC	PLUMBING CONTRACTOR
PCF	POUNDS PER CUBIC FOOT
PL	PLATE OR PROPERTY LINE
PLAS	PLASTER
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLWD	PLYWOOD
PME	PLUMBING, MECHANICAL & ELECTRICAL
PNL	PANEL
PR	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P	PAINT
PVC	POLYVINYL CHLORIDE

Q	
QT	QUARRY
QUANT	QUANTITY

R	
R	RADIUS OR RISER
RA	RETURN AIR
RB	RUBBER BASE
RD	ROOF DRAIN
RECEPT	RECEPTACLE
REF	REFERENCE
REFRIG	REFRIGERATOR
REG	REGISTRATION
REINF	REINFORCE
REM	REMOVE
REQD	REQUIRED
RET	RETURN
REV	REVISION
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY

S	
S	SOUTH
SA	SUPPLY AIR
SAN	SANITARY
SB	SINK BASE
SC	SOLID CORE
SCHED	SCHEDULE
SEAL	SEALANT
SECT	SECTION
SF	SQUARE FEET
SG	SAFETY GLASS
SH	SPRINKLER HEAD OR SHOWER HEAD
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SPEC	SPECIFICATION(S)
SPK	SPEAKER
SQ	SQUARE
SRV	SERVICE
SS	STAINLESS STEEL
SSM	SOLID SURFACING MATERIAL
ST	STREET
STC	SOUND TRANSMISSION CLASSIFICATION
STD	STANDARD
STL	STEEL
STOR	STORAGE
STR	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SWD	SOFTWOOD
SYM	SYMMETRICAL
SYS	SYSTEM

T	
T	TREAD
T & G	TONGUE & GROOVE
TB	TOWEL BAR OR TACKBOARD
T&B	TOP AND BOTTOM
TEL	TELEPHONE
THK	THICK
TKBD	TACKBOARD
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TOM	TOP OF MASONRY
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TRANS	TRANSFORMER
TV	TELEVISION
TYP	TYPICAL

U	
UC	UNDER CABINET OR COUNTER
UCR	UNDER COUNTER REFRIGERATOR
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
UR	URINAL

V	
V	VACUUM
VAR	VARNISH
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VJ	V-JOINT (ED)
VS	VACUUM SLIDE
VWB	VINYL WALL BORDER
VWC	VINYL WALL COVERING
VYL	VINYL

W	
W	WIDE OR WEST OR WOMEN
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET OR WALL CABINET
WD	WOOD
WF	WIDE FLANGE
WG	WIRE GLASS
WH	WALL HUNG OR WATER HEATER
WIN	WINDOW
WP	WEATHERPROOF
WPT	WOOD PRESERVATIVE TREATMENT
WRGB	WATER RESISTANT GYPSUM BACKING BOARD
WT	WEIGHT
WWF	WELDED WIRE FABRIC

REFERENCE SYMBOLS

DRAWING TITLE

1 FIRST FLOOR PLAN — DRAWING TITLE
1/4"=1'-0" — SCALE OF DRAWING
DRAWING REFERENCE NUMBER

INTERIOR ELEVATIONS

1 / 4 A1.1 2 / 3 — DRAWING REFERENCE NUMBER; DRAWING SHEET NUMBER

BUILDING/DETAIL SECTION

B1 / A1.1 — DRAWING REFERENCE NUMBER; DRAWING SHEET NUMBER

ENLARGED DETAIL

B1 / A1.1 — DRAWING REFERENCE NUMBER; DRAWING SHEET NUMBER

EXTERIOR ELEVATIONS

1 / 4 A1.1 2 / 3 — DRAWING REFERENCE NUMBER; DRAWING SHEET NUMBER

MATCH LINE

A1 / A1.1 — DRAWING REFERENCE NUMBER; DRAWING SHEET NUMBER

MATERIAL SYMBOLS IN SECTION

EARTH	LOOSE OR BATT INSULATION	BRICK
GRANULAR FILL	RIGID INSULATION	STEEL
CONCRETE	PLASTER	SOLID BRG. C.M.U.
CONCRETE BLOCK	PLYWOOD	WOOD, FINISHED
GYPSUM	BLOCKING / SHIM	WOOD, DIMENSIONAL

DRAWING SYMBOLS

COLUMN CENTER LINES

A / 1

ROOM SYMBOL

ROOM NAME — ROOM NAME
101 — ROOM NUMBER

PLAN SYMBOLS

00	CONSTRUCTION NOTES
00	DEMOLITION NOTES
00	ACCESSORIES (LETTERS)
101	DOOR NUMBER SYMBOL
101	WINDOW SYMBOL
A1	WALL TYPE
14	REVISION / CHANGE
F.D.	FLOOR DRAIN
R.D.	ROOF DRAIN
	ROD OR SHELF (CLOSETS)
C.G.	PROTECTIVE CORNER GUARD (PLAN VIEW)
E.W.P.	END WALL PROTECTOR
	LIMIT OF CONSTRUCTION AREA
FEC	FIRE EXTINGUISHER CABINET

ELEVATION SYMBOLS

	CHANGE IN ELEVATION
	ELEVATION

REFLECTED CEILING SYMBOLS

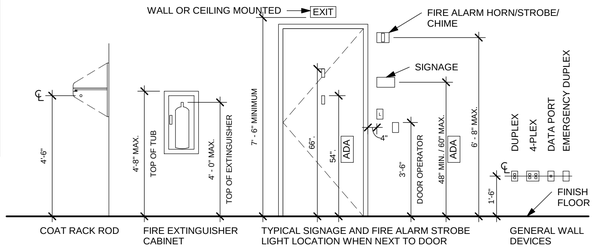
	SURFACE MOUNTED LIGHT FIXTURES
	RECESSED LIGHT FIXTURES
	CALL LIGHT
	EXIT LIGHT
	EMERGENCY EGRESS LIGHT WITH 90 MINUTE BATTERY
	SUPPLY DIFFUSER
	RETURN
S	SMOKE DETECTOR
S	SPEAKER
	SPRINKLER HEAD
	CURTAIN OR IV TRACK
9'-6"	CEILING HEIGHT

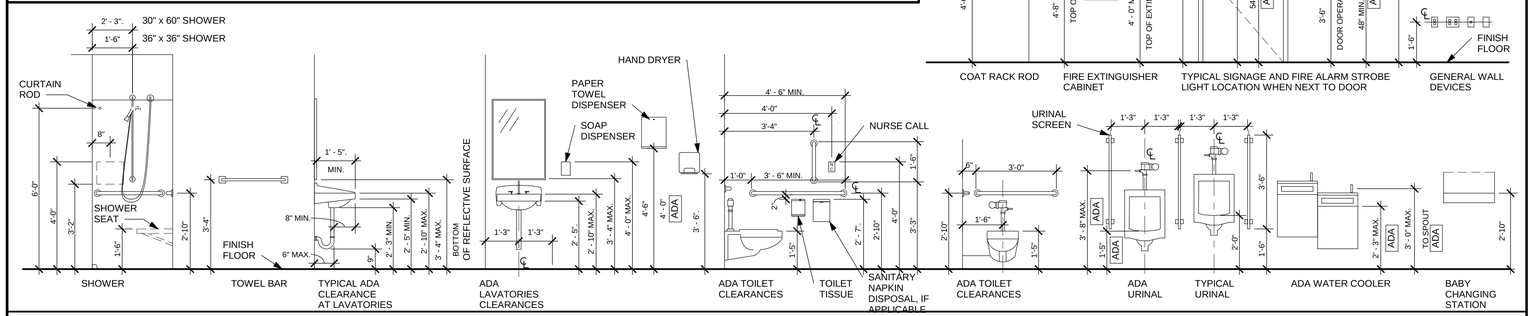
INTERIOR ELEV. SYMBOLS

GO	DUPLEX RECEPTACLE
	TELE/DATA OUTLET
L	LIGHT SWITCH
	DUPLEX RECEPTACLE (EMERGENCY POWER)
NC	NURSE CALL BUTTON
CB	CODE BLUE BUTTON
	MEDICAL GAS OUTLET
T	TEMPERED GLASS

FIRE RATING LEGEND

1/2 HR. FIRE BARRIER	
1 HR. FIRE BARRIER	
1 HR. FIRE / SMOKE BARRIER	
2 HR. FIRE BARRIER	
1 HR. FIRE / SMOKE BARRIER	
3 HR. FIRE BARRIER	





MOUNTING & CLEARANCE STANDARDS N.T.S.

(FOLLOW THESE UNLESS NOTED OTHERWISE)

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STATE OF OHIO — TIMOTHY J. BERNERT — REGISTERED ARCHITECT — 12305

Timothy J. Bernert, License #12305
Expiration Date 12/31/2021

Beavercreek Township

Fire Station No. 65

1777 Trebein Road, Beavercreek Township, Ohio 45385

ISSUE:

NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION

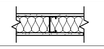
DATE	04/03/2020
JOB NO.	3541.01
DRAWN	CMS
CHECKED	TJB
CAD	-

TITLE
ABBREVIATIONS AND SYMBOLS

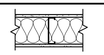
SHEET NO.
A0.01

4/7/2020 9:52:25 AM

TYPICAL INTERIOR PARTITIONS (RATED)

TYPE	UL DESIGN NO.	STUD WIDTH	PARTITION WIDTH	DETAIL (PLAN VIEW)
F1	U407 (1/2 HR)	3 5/8"	4 7/8"	

NOTES:
METAL STUDS @ 16" O.C.
3 1/2" SOUND ATTENUATION BATT
5/8" TYPE X GYPSUM WALLBOARD EACH SIDE
EXTEND TO BOTTOM CHORD OF ROOF TRUSSES.
(REFER TO INTERIOR DETAILS FOR RATED DEFLECTION TRACK DETAIL)

TYPE	UL DESIGN NO.	STUD WIDTH	PARTITION WIDTH	DETAIL (PLAN VIEW)
F2	U407 (1/2 HR)	6"	7 1/4"	

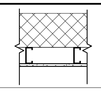
NOTES:
METAL STUDS @ 16" O.C.
5 1/2" SOUND ATTENUATION BATT
5/8" TYPE X GYPSUM WALLBOARD ONE SIDE
EXTEND TO BOTTOM CHORD OF ROOF TRUSSES.
(REFER TO INTERIOR DETAILS FOR RATED DEFLECTION TRACK DETAIL)

TYPE	UL DESIGN NO.	STUD WIDTH	PARTITION WIDTH	DETAIL (PLAN VIEW)
F3	U407 (1/2 HR)	7 5/8"	9 7/8"	

NOTES:
8" NOMINAL (NONBEARING/BEARING)
CONCRETE BLOCK EXTEND TO STRUCTURE ABOVE.
1 5/8" MTL STUD @ 16" O.C. EXTEND TO 6" ABOVE CEILING
5/8" TYPE X GYPSUM WALLBOARD

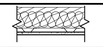
TYPE	UL DESIGN NO.	STUD WIDTH	PARTITION WIDTH	DETAIL (PLAN VIEW)
F4	U905 (2 HR)	7 5/8"	7 5/8"	

NOTES:
8" NOMINAL (NONBEARING/BEARING)
CONCRETE BLOCK EXTEND TO STRUCTURE ABOVE.

TYPE	UL DESIGN NO.	STUD WIDTH	PARTITION WIDTH	DETAIL (PLAN VIEW)
F5	U905 (2 HR)	7 5/8"	11 7/8"	

NOTES:
8" NOMINAL (NONBEARING/BEARING)
CONCRETE BLOCK EXTEND TO STRUCTURE ABOVE.
3 5/8" METAL STUDS @ 16" O.C.
5/8" TYPE X GYPSUM WALLBOARD ONE SIDE
EXTEND TO 6" ABOVE CEILING

(RATED CEILINGS)

TYPE	UL DESIGN NO.	STUD WIDTH	PARTITION WIDTH	DETAIL (PLAN VIEW)
F6	P522 (1 HR)	7/8"	4 7/8"	

NOTES:
RESILIENT FURRING CHANNELS FORMED OF 25 MSG THICK GALV STEEL 16" O.C.
5/8" TYPE X GYPSUM WALLBOARD
INSTALLED ON UNDERSIDE OF TRUSSES

TYPE	UL DESIGN NO.	STUD WIDTH	PARTITION WIDTH	DETAIL (PLAN VIEW)
F7	L532 (1-1/2 HR)	7/8"	4 7/8"	

NOTES:
RESILIENT FURRING CHANNELS FORMED OF 25 MSG THICK GALV STEEL 16" O.C.
(2) LAYERS 5/8" TYPE X GYPSUM WALLBOARD
INSTALLED ON UNDERSIDE OF STAIRS

TYPE	UL DESIGN NO.	STUD WIDTH	PARTITION WIDTH	DETAIL (PLAN VIEW)
F8	D219 (2 HR)	3"	8"	

NOTES:
5" DEEP CONCRETE FLOOR SLAB (REFER TO STRUCTURAL)
3" COMPOSITE STEEL DECK (REFER TO STRUCTURAL)
SUSPENDED APC BELOW
INSTALLED OVER TORNADO SHELTER

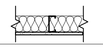
PARTITION NOTES

A. ALL INTERIOR PARTITIONS TYPE UNLESS NOTED OTHERWISE.
B. MOISTURE/MOLD RESISTANT GYPSUM WALLBOARD TO BE USED THROUGHOUT ANY ROOM WHERE A WATER SOURCE IS PRESENT.
C. PROVIDE & INSTALL DEFLECTION TRACK AT ALL WALLS THAT EXTEND TO DECK OR BOTTOM CHORD OF ROOF TRUSSES. SEE SHEET A0.05 FOR TYPICAL PARTITION DETAILS.
D. UL TEST NUMBERS FOR INTERIOR PARTITIONS WILL VARY PENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED. MAINTAIN RATING AND ADVISE ARCHITECT IF WALL THICKNESS WILL CHANGE.
E. RATED WALLS AND SMOKE PARTITIONS ARE TO BE CONSTRUCTED TIGHT TO STRUCTURE, PIPING AND OTHER PENETRATIONS.
F. METAL STUD PARTITIONS SHALL BE BRACED TO STRUCTURE ABOVE.

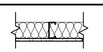
TYPICAL INTERIOR PARTITIONS (NON-RATED)

TYPE	STUD WIDTH	PARTITION WIDTH	DETAIL (PLAN VIEW)
A1	3 5/8"	4 7/8"	

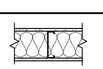
NOTES:
METAL STUDS @ 16" O.C.
3 1/2" SOUND ATTENUATION BATT
5/8" TYPE X GYPSUM WALLBOARD EACH SIDE
EXTEND TO BOTTOM CHORD OF ROOF TRUSSES OR DECK ABOVE.
USE 1/2" CEMENT BOARD AT SHOWER ENCLOSURES IN LIEU OF GYP. BD.

TYPE	STUD WIDTH	PARTITION WIDTH	DETAIL (PLAN VIEW)
A2	3 5/8"	4 1/4"	

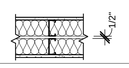
NOTES:
METAL STUDS @ 16" O.C.
3 1/2" SOUND ATTENUATION BATT
5/8" TYPE X GYPSUM WALLBOARD ONE SIDE
EXTEND TO BOTTOM CHORD OF ROOF TRUSSES OR DECK ABOVE.
USE 1/2" CEMENT BOARD AT SHOWER ENCLOSURES IN LIEU OF GYP. BD.

TYPE	STUD WIDTH	PARTITION WIDTH	DETAIL (PLAN VIEW)
A3	3 5/8"	4 1/4"	

NOTES:
METAL STUDS @ 16" O.C.
3 1/2" SOUND ATTENUATION BATT
5/8" TYPE X GYPSUM WALLBOARD ONE SIDE
EXTEND TO 6" ABOVE CEILING
USE 1/2" CEMENT BOARD AT SHOWER ENCLOSURES IN LIEU OF GYP. BD.

TYPE	STUD WIDTH	PARTITION WIDTH	DETAIL (PLAN VIEW)
B1	6"	7 1/4"	

NOTES:
METAL STUDS @ 16" O.C.
5 1/2" SOUND ATTENUATION BATT
5/8" TYPE X GYPSUM WALLBOARD EACH SIDE
EXTEND TO BOTTOM CHORD OF ROOF TRUSSES OR DECK ABOVE.
USE 1/2" CEMENT BOARD AT SHOWER ENCLOSURES IN LIEU OF GYP. BD.

TYPE	STUD WIDTH	PARTITION WIDTH	DETAIL (PLAN VIEW)
B2	(2) @ 3 5/8"	9"	

METAL STUDS @ 16" O.C.
(2) 3 1/2" SOUND ATTENUATION BATT
5/8" TYPE X GYPSUM WALLBOARD EACH SIDE
EXTEND TO BOTTOM CHORD OF ROOF TRUSSES OR DECK ABOVE.
USE 1/2" CEMENT BOARD AT SHOWER ENCLOSURES IN LIEU OF GYP. BD.

TYPE	STUD WIDTH	PARTITION WIDTH	DETAIL (PLAN VIEW)
B4	6"	6 5/8"	

NOTES:
METAL STUDS @ 16" O.C.
5 1/2" SOUND ATTENUATION BATT
5/8" TYPE X GYPSUM WALLBOARD ON INTERIOR SIDE
EXTEND TO BOTTOM CHORD OF ROOF TRUSSES OR DECK ABOVE.
USE 1/2" CEMENT BOARD AT SHOWER ENCLOSURES IN LIEU OF GYP. BD.

TYPE	STUD WIDTH	PARTITION WIDTH	DETAIL (PLAN VIEW)
M1	9 5/8"	n/a	

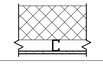
NOTES:
10" NOMINAL (NONBEARING/BEARING)
CONCRETE BLOCK EXTEND TO STRUCTURE ABOVE.

TYPE	STUD WIDTH	PARTITION WIDTH	DETAIL (PLAN VIEW)
M2	7 5/8"	n/a	

NOTES:
8" NOMINAL (NONBEARING/BEARING)
CONCRETE BLOCK EXTEND TO STRUCTURE ABOVE.

TYPE	STUD WIDTH	PARTITION WIDTH	DETAIL (PLAN VIEW)
M3	5 5/8"	n/a	

NOTES:
6" NOMINAL (NONBEARING/BEARING)

TYPE	STUD WIDTH	PARTITION WIDTH	DETAIL (PLAN VIEW)
M4	7 5/8"	9 7/8"	

NOTES:
8" NOMINAL (NONBEARING/BEARING)
CONCRETE BLOCK EXTEND TO STRUCTURE ABOVE.
1 5/8" MTL STUD @ 16" O.C. EXTEND TO 6" ABOVE CEILING
5/8" TYPE X GYPSUM WALLBOARD

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	WAINSCOT MAT.	WAINSCOT HT.	WALLS N	WALLS S	WALLS E	WALLS W	CEILING MAT.	REMARKS
01	VESTIBULE	MATT-1	RB-1			---	---	P-1	P-1	APC-1	6
02	CONFERENCE ROOM	CPT-1	RB-1	VWP-2/ CR	3'-6"	P-1	P-1	P-1	P-3	APC-1	
03	PUBLIC ADA TOILET	PT-1	PTWB			P-1	P-1	PWT-1	P-1	APC-1	2
04	JANITOR	PC	RB-3	VWP-1	4'-6"	P-1	P-1	P-1	P-1	APC-1	
05	KITCHEN	PC	RB-1			P-1	P-1	P-1	---	APC-1	
06	DINING	PC	RB-1			---	PP-1	P-1	---	APC-1	
07	DAYROOM	CPT-1	RB-1			P-3	P-1	P-1	P-3	APC-1	
08	WORKOUT ROOM	RF	RB-1	VWP-1	4'-4"	P-1	P-1	P-1	P-1	APC-1	
09	REPORT ROOM	PC	RB-1			P-1	P-2	P-2	P-2	APC-1	
10	BATTERY STATION	PC	RB-1			P-1	P-2	---	P-2	APC-1	
11	DORM 1	CPT-1	RB-1	VWP-2	3'-9"	P-2	P-4	P-2	P-2	APC-1	1
12	DORM 2	CPT-1	RB-1	VWP-2	3'-9"	P-2	P-4	P-2	P-2	APC-1	1
13	DORM 3	CPT-1	RB-1	VWP-2	3'-9"	P-2	P-4	P-2	P-2	APC-1	1
14	DORM 4	CPT-1	RB-1	VWP-2	3'-9"	P-2	P-2	P-2	P-4	APC-1	1
15	DORM 5	CPT-1	RB-1	VWP-2	3'-9"	P-2	P-2	P-2	P-4	APC-1	1
16	CREW UTILITY	PC	RB-3			P-1	P-1	P-1	P-1	APC-1	
17	ADA T/S	PT-1	PTWB			PWT-1	P-1	P-1	P-1	APC-1	2
18	ADA T/S	PT-1	PTWB			PWT-1	P-1	P-1	P-1	APC-1	2
19	OFFICER'S OFFICE	CPT-1	RB-1			P-1	P-1	P-1	P-3	APC-1	
20	OFFICER'S DORM	CPT-1	RB-1	VWP-1	3'-9"	P-4	P-2	P-2	P-2	APC-1	1
21	OFFICER'S T/S	PT-1	PTWB			P-1	P-1	P-1	P-1	APC-1	2
22	TOOL STORAGE	SC	--			EP-3	EP-3	EP-3	EP-3	GYB-P	
23	TOG ROOM	EFP	RB-3			EP-3	EP-3	EP-3	EP-3	APC-1	
24	EMS DECON	EFP	RB-3			EP-3	EP-3	EP-3	EP-3	APC-1	5
25	TORNADO SHELTER	EFP	RB-3			EP-3	EP-3	EP-3	EP-3	APC-1	
26	HOSE HANGER	SC	--			EP-3	EP-3	---	EP-3	EXPS	
27	EMS STORAGE CASCADE	SC	--			EP-3	EP-3	EP-3	EP-3	APC-1	
28	IT ROOM	SC	--			EP-3	EP-3	EP-3	EP-3	EXPS	3
29	WATER ROOM	SC	--			EP-3	EP-3	EP-3	EP-3	EXPS	
30	ELECTRIC ROOM	SC	RB-2			P-1	P-1	P-1	P-1	GYB-P	4
B1	BAY 1	SC	--			EP-3	---	EP-3	EP-3	EXPS	
B2	BAY 2	SC	--			---	---	EP-3	EP-3	EXPS	
B3	BAY 3	SC	--			EP-3	EP-3	EP-3	EP-3	EXPS	
C1	PUBLIC CORRIDOR	PC	RB-1			P-1	P-1	P-1	P-1	APC-1	
C2	CORRIDOR	PC	RB-1			P-1	P-1	P-1	P-1	APC-1	
C3	CORRIDOR	PC	RB-1			P-1	P-1	P-1	P-1	APC-1	
M01	TRAINING	SC	RB-2			EP-3	EP-3	EP-3	EP-3	EXPS	
M02	MECHANICAL	SC	RB-2			EP-3	EP-3	EP-3	EP-3	EXPS	
S1	STAIRS	SC				EP-3	EP-3	---	EP-3	EXPS	

ROOM FINISH SCHEDULE REMARKS

No.	REMARK
1	REFER TO ELEVATIONS FOR EXTENT AND LOCATIONS OF VWP-1
2	REFER TO ELEVATIONS FOR LOCATION AND LAYOUT OF PWT-1 AND PWTM ACCENT BAND.
3	3/4" FR PLYWOOD ALL WALLS.
4	3/4" FR PLYWOOD BEHIND WALL MOUNTED PANELS.
5	SLATWALL PANELS AND 3/4" FRT PLYWOOD MOUNTED TO WALLS. REFER TO ELEVATIONS.
6	INSTALL ACOUSTICAL CEILING WITH HOLD-DOWN CLIPS.

MATERIAL LEGEND

ITEM	MATERIAL	MANUFACTURER	MATERIAL MODEL NO.	COLOR	CONTACT INFO	COMMENTS
BASE						
PTWB	PORCELAIN TILE WALL BASE	CROSSVILLE	6" x 18" - VISTA AMERICANA	PLATEAU - AV183		TOPPED WITH SCHLUTER STRIP WHEN NO WALL TILE
RB-1	RUBBER BASE	JOHNSONITE	MILLWORK REVEAL, 4.25"	BURNT UMBER - RWDC-63		
RB-2	RUBBER BASE	JOHNSONITE	4"	BURNT UMBER - RWDC-63		
RB-3	RUBBER BASE	JOHNSONITE	6"	BURNT UMBER - RWDC-63		
CABINETS						
PL-1	PLASTIC LAMINATE	WILSONART		BUKA BARK - 7982-38		CABINET BODIES & DOORS
PL-2	PLASTIC LAMINATE	WILSONART		DESSERT ZEPHYR - 4541-60		WORK SURFACE / COUNTER TOPS
SS	STAINLESS STEEL					WORK SURFACE / COUNTER TOPS
SSF-1	SOLID SURFACE	DUPONT CORIAN		COTTAGE LANE		WORK SURFACE / COUNTER TOPS / WINDOW SILLS / CHAIR RAILS
SSF-2	SOLID SURFACE	DUPONT CORIAN		CAMEO WHITE		LAVATORY BOWL
CEILING						
APC-1	ACOUSTIC PANEL CEILING	ARMSTRONG	24" x 24" CANYON, BEVELED TEGULAR			MOISTURE RESISTANT
EXPS	EXPOSED STRUCTURE					ALL EXPOSED STRUCTURE TO BE PAINTED PER SPECIFICATIONS
GYB / P	GYPSUM BOARD PAINTED			P-5		
FLOOR						
CPT-1	CARPET TILE	SHAW CONTRACT	KASURI TILE 5T046	CAST BRONZE 92601		ASHLAR INSTALL
EFP	EPOXY FLOOR PAINT	REFER TO SPECIFICATIONS		TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE		
MATT-1	WALK-OFF MAT	SHAW CONTRACT	WELCOME II	BLACK CHOCOLATE - 31751		QUARTER TURN INSTALL
PC	POLISHED CONCRETE	REFER TO SPECIFICATIONS				
PT-1	PORCELAIN TILE	CROSSVILLE	2" x 2" - BLUE STONE	ARIZONA BROWN - AV202		
RF	RUBBER FLOORING	JOHNSONITE	REPLAY, COMMOTION COLLECTION	525 STONY B		3/8" THICK
SC	SEALED CONCRETE	REFER TO SPECIFICATIONS				
SPECIALTY						
CC	CUBICAL CURTAIN	STANDARD TEXTILES	CUBICLE CURTAIN	TBD		ROOM 25 ONLY
CG-1	CORNER GUARD	INPRO	IPC 160 BLUNOSE CORNER GUARD	OATMEAL 0239		4'-0", INSTALL AT TOP OF BASE. REFER TO SHEET A0.05 FOR DETAILS
CG-2	CORNER GUARD		REFER TO SHEET A0.05 FOR DETAILS	GALVANIZED STEEL		8'-0", INSTALL AT FLOOR LEVEL
CR	CHAIR RAIL	DUPONT CORIAN		COTTAGE LANE		3 1/2" TALL x 1/2" THICKNESS. ROOMSIDE TOP AND BOTTOM CORNERS EASED
VWP-1	VINYL WALL PROTECTION	INPRO	IPC WALL PROTECTION	OATMEAL 0239		
VWP-2	VINYL WALL PROTECTION	INPRO	IPC WALL PROTECTION	AMERICAN TEAK 0553		
WALL						
EP-1	EPOXY PAINT	SHERWIN WILLIAMS	COLOR MATCH BENJAMIN MOORE	HC-84 ELMIRA WHITE (SEMI-GLOSS)		INTERIOR HM DOORS & FRAMES IN ADMIN./LIVING QUARTERS
EP-2	EPOXY PAINT	SHERWIN WILLIAMS	COLOR MATCH BENJAMIN MOORE	BLACK BEAN SOUP 2130-10		EXTERIOR HM DOORS & FRAMES & AS NOTED ON SCHEDULE, RAILINGS
EP-3	EPOXY PAINT	SHERWIN WILLIAMS		SW 7011 NATURAL CHOICE (SEMI-GLOSS)		APPARATUS BAYS AND AS NOTED
P-1	PAINT	SHERWIN WILLIAMS	COLOR MATCH BENJAMIN MOORE	HC-84 ELMIRA WHITE (EGGSHELL)		COLOR MATCH BENJAMIN MOORE COLOR
P-2	PAINT	SHERWIN WILLIAMS	PRO-MAR 200	SW 7507 STONE LION (EGGSHELL)		
P-3	PAINT	SHERWIN WILLIAMS	PRO-MAR 200	SW 7059 UNUSUAL GRAY (EGGSHELL)		
P-4	PAINT	SHERWIN WILLIAMS	PRO-MAR 200	SW 6214 UNDERSEAS (EGGSHELL)		
PWT-1	PORCELAIN WALL TILE	DALTILE	FABRIC ART	MODERN TEXTILE TAUPE MT52		12"x24" TILES, MONOLITHIC, HORIZONTAL INSTALL
PWTM	PORCELAIN WALL TILE MOSIAC	DALTILE	FABRIC ART	MODERN TEXTILE BEIGE MT51		1"x3" STRAIGHT JOINT MOSAIC, ACCENT BAND

ALL FINISHES ARE TO HAVE A MINIMUM CLASS B FIRE PERFORMANCE AND SMOKE DEVELOPMENT CLASSIFICATION.

App Architecture
creative focused design
615 Woodside Drive, Englewood, Ohio 45322
T 937.836.8898 F 937.832.3696
www.app-arch.com

STATE OF OHIO TIMOTHY J. BERNERT REGISTERED ARCHITECT 12305
Timothy J. Bernert, License #12305
Expiration Date 12/31/2021

Beavercreek Township
Fire Station No. 65
1777 Trebein Road, Beavercreek Township, Ohio 45385

ISSUE:

NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION
1	05/04/2020	CODE REVISIONS

DATE	04/03/2020
JOB NO.	3541.01
DRAWN	CMS
CHECKED	TJB
CAD	-

TITLE
SCHEDULES & PARTITION TYPES

SHEET NO.
A0.02

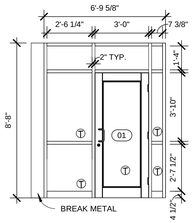
5/6/2020 2:26:47 PM

WINDOW SCHEDULE

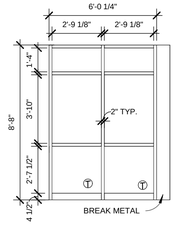
TYPE	QTY.	ROUGH OPENING WIDTH	ROUGH OPENING HEIGHT	HEAD HEIGHT	STORE FRONT SYSTEM TYPE	STORE FRONT SYSTEM MATERIAL	STORE FRONT SYSTEM FINISH	JAMB	HEAD	SILL	COMMENTS
SF1	1	7' - 4 3/4"	8' - 8"	8' - 8"	1	ALUM.	ANODIZED	F1/A5.02	D3/A5.02	F4/A5.02	1, 4
SF2	1	6' - 0 1/4"	8' - 8"	8' - 8"	1	ALUM.	ANODIZED	C1, F1 & F3/A5.02	D3/A5.02	F4/A5.02	1
SF3	1	6' - 0 3/4"	5' - 8"	8' - 8"	1	ALUM.	ANODIZED	F1 & F4/A5.02	D3/A5.02	C5/A5.02	1
SF4	1	2' - 9 5/8"	5' - 8"	8' - 8"	1	ALUM.	ANODIZED	C1 & F1/A5.02	D3/A5.02	C5/A5.02	1
SF5	1	4' - 8"	5' - 8"	8' - 8"	1	ALUM.	ANODIZED	C1/A5.02	C3/A5.02	C5/A5.02	1
SF6	2	4' - 8"	5' - 8"	8' - 8"	1	ALUM.	ANODIZED	C1/A5.02	C3/A5.02	C5/A5.02	1, 3
SF7	1	9' - 4"	8' - 8"	8' - 8"	1	ALUM.	ANODIZED	C1/A5.02	C3/A5.02	F4/A5.02	1, 3, 4
SF8	1	15' - 4"	8' - 8"	8' - 8"	1	ALUM.	ANODIZED	C1/A5.02	C3/A5.02	F4/A5.02	1, 3, 4
SF9	4	3' - 4"	3' - 4"	12' - 0"	1	ALUM.	ANODIZED	D5/A5.02	D6/A5.02	F6/A5.02	1
SF10	5	2' - 8"	4' - 4"	7' - 4"	1	ALUM.	ANODIZED	C1/A5.02	C3/A5.02	C5/A5.02	1, 3
SF11	2	2' - 8"	5' - 8"	8' - 8"	1	ALUM.	ANODIZED	C1/A5.02	C3/A5.02	C5/A5.02	1, 3
SF12	1	6' - 0"	8' - 8"	8' - 8"	2	ALUM.	ANODIZED	E5/A0.04	F4/A0.04	F5/A0.04	2, 5
SF13	1	5' - 6"	7' - 1 3/4"	7' - 1 3/4"	2	ALUM.	ANODIZED	E4/A0.04	F4/A0.04	F5/A0.04	2, 5
SF14	1	2' - 4"	4' - 1 3/4"	7' - 1 3/4"	2	ALUM.	ANODIZED	E4/A0.04	F4/A0.04	E4/A0.04 (SIM)	2
SF15	1	6' - 0"	3' - 7 3/4"	7' - 1 3/4"	2	ALUM.	ANODIZED	E4/A0.04	F4/A0.04	E4/A0.04 (SIM)	2
SF16	1	3' - 0"	4' - 0"	7' - 4"	1	ALUM.	ANODIZED	B3/A0.04	C3/A0.04	E3/A0.04	1, NO TINT THIS WINDOW

WINDOW COMMENTS

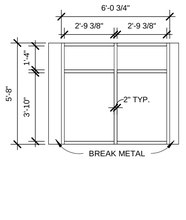
1	(TYPE 1) BASIS OF DESIGN: KAWNEER TRIFAB VERRSAGLAZE 451T FRAMING SYSTEM WITH 2" x 4 1/2" MULLIONS AND 1" INSULATED, TINTED GLAZING UNLESS NOTED OTHERWISE.
2	(TYPE 2) BASIS OF DESIGN: KAWNEER TRIFAB VERRSAGLAZE 450 FRAMING SYSTEM WITH 1 3/4" x 4 1/2" MULLIONS AND 1/4" GLAZING UNLESS NOTED OTHERWISE.
3	OPERABLE WINDOW BASIS OF DESIGN: KAWNEER GLASSVENT PROJECT-OUT WINDOWS.
4	EXTERIOR DOOR BASIS OF DESIGN: KAWNEER INSULCAD 560 WIDE STILE THERMAL ENTRANCE DOOR.
5	INTERIOR DOOR BASIS OF DESIGN: KAWNEER 500 WIDE STILE STANDARD ENTRANCE DOOR.



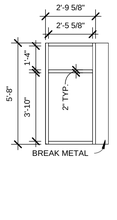
SF1 ELEVATION 1/4" = 1'-0"



SF2 ELEVATION 1/4" = 1'-0"



SF3 ELEVATION 1/4" = 1'-0"



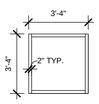
SF4 ELEVATION 1/4" = 1'-0"

SF5 ELEVATION 1/4" = 1'-0"

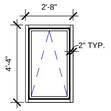
SF6 ELEVATION 1/4" = 1'-0"

SF7 ELEVATION 1/4" = 1'-0"

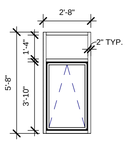
SF8 ELEVATION 1/4" = 1'-0"



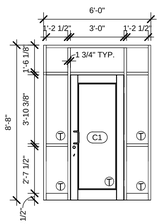
SF9 ELEVATION 1/4" = 1'-0"



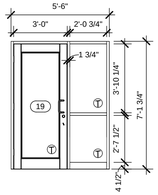
SF10 ELEVATION 1/4" = 1'-0"



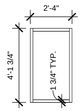
SF11 ELEVATION 1/4" = 1'-0"



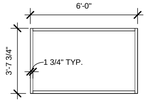
SF12 ELEVATION 1/4" = 1'-0"



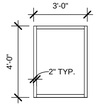
SF13 ELEVATION 1/4" = 1'-0"



SF14 ELEVATION 1/4" = 1'-0"



SF15 ELEVATION 1/4" = 1'-0"



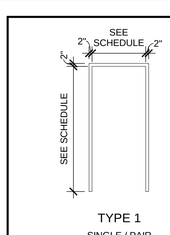
SF16 ELEVATION 1/4" = 1'-0"

DOOR AND FRAME SCHEDULE

DOOR No.	HDW. SET	ROOM NAME	DOOR SIZE W	DOOR SIZE H	DOOR SIZE T	DOOR MAT.	DOOR TYPE	DOOR FIN.	DOOR U/C	FRAME MAT.	FRAME TYPE	FRAME FIN.	FRAME DETAILS JAMB	FRAME DETAILS HEAD	FRAME DETAILS SILL	FIRE RTG.	REMARKS
01	01	VESTIBULE	3' - 0"	7' - 0"	2 1/4" 1	ALUM	AL1	ANODIZED		ALUM		ANODIZED			F5/A5.02	-	
02	13	CONFERENCE ROOM	3' - 0"	7' - 0"	1 3/4"	WD	NL1	PL-3		HM	1	EP-1	B6/A0.04	C6/A0.04		-	
03	15	PUBLIC ADA TOILET	3' - 0"	7' - 0"	1 3/4"	WD	F1	PL-3	3/4"	HM	1	EP-1	B6/A0.04	C6/A0.04		-	
04	12	JANITOR	3' - 0"	7' - 0"	1 3/4"	WD	F1	PL-3	3/4"	HM	1	EP-1	B6/A0.04	C6/A0.04		-	
06	02	DINING	3' - 0"	7' - 0"	2 1/4" 1	ALUM	AL1	ANODIZED		ALUM		ANODIZED			F5/A5.02	-	
08A	11	WORKOUT ROOM	3' - 0"	7' - 0"	1 3/4" 1	WD	HG1	PL-3		HM	1	EP-1	B6/A0.04	C6/A0.04			
08B	02	WORKOUT ROOM	3' - 0"	7' - 0"	2 1/4" 1	ALUM	AL1	ANODIZED		ALUM		ANODIZED			F5/A5.02	-	
11	17	DORM 1	3' - 0"	7' - 0"	1 3/4"	WD	F1	PL-3		HM	1	EP-1	B6/A0.04	C6/A0.04		20 MIN.	
12	17	DORM 2	3' - 0"	7' - 0"	1 3/4"	WD	F1	PL-3		HM	1	EP-1	B6/A0.04	C6/A0.04		20 MIN.	
13	17	DORM 3	3' - 0"	7' - 0"	1 3/4"	WD	F1	PL-3		HM	1	EP-1	B6/A0.04	C6/A0.04		20 MIN.	
14	17	DORM 4	3' - 0"	7' - 0"	1 3/4"	WD	F1	PL-3		HM	1	EP-1	B6/A0.04	C6/A0.04		20 MIN.	
15	17	DORM 5	3' - 0"	7' - 0"	1 3/4"	WD	F1	PL-3		HM	1	EP-1	B6/A0.04	C6/A0.04		20 MIN.	
16	11	CREW UTILITY	3' - 0"	7' - 0"	1 3/4"	WD	F1	PL-3		HM	1	EP-1	B6/A0.04	C6/A0.04		-	
17	15	ADA T/S	3' - 0"	7' - 0"	1 3/4"	WD	F1	PL-3	3/4"	HM	1	EP-1	B6/A0.04	C6/A0.04		-	
18	15	ADA T/S	3' - 0"	7' - 0"	1 3/4"	WD	F1	PL-3	3/4"	HM	1	EP-1	B6/A0.04	C6/A0.04		-	
19	06	OFFICER'S OFFICE	3' - 0"	7' - 0"	1 3/4"	ALUM	HG3	ANODIZED		ALUM		ANODIZED				-	
20	17	OFFICER'S DORM	3' - 0"	7' - 0"	1 3/4"	WD	F1	PL-3		HM	1	EP-1	B6/A0.04	C6/A0.04		20 MIN.	
21	16	OFFICER'S T/S	3' - 0"	7' - 0"	1 3/4"	WD	F1	PL-3	3/4"	HM	1	EP-1	B6/A0.04	C6/A0.04		20 MIN.	
23A	08	TOG ROOM	3' - 0"	7' - 0"	1 3/4"	WD	NL1	PL-3		HM	1	EP-1 / EP-2	B4/A0.04	C4/A0.04		-	
23B	09	TOG ROOM	3' - 0"	7' - 0"	1 3/4"	HM	NL1	EP-2		HM	1	EP-2	B5/A0.04	C5/A0.04		-	
23C	04	TOG ROOM	3' - 0"	7' - 0"	1 3/4"	HM	NL3	EP-2		HM	1	EP-2	C2/A5.01	C4/A5.01	C5/A5.01	-	2
24	18	EMS DECON	3' - 0"	7' - 0"	1 3/4"	HM	NL1	EP-2		HM	1	EP-2	B5/A0.04	C5/A0.04		-	
25	20	TORNADO SHELTER	3' - 0"	7' - 0"	1 3/4"	HM	F1	EP-2	5/8"	HM	1	EP-2	E6/A0.04	F6/A0.04		90 MIN.	1, 5
27	19	EMS STORAGE CASCADE	3' - 0"	7' - 0"	1 3/4"	HM	F1	EP-2		HM	1	EP-2	B5/A0.04	C5/A0.04		-	3
28	05	IT ROOM	3' - 0"	7' - 0"	1 3/4"	HM	F1	EP-2		HM	1	EP-2	C2/A5.01 (SIM)	C4/A5.01 (SIM)	C5/A5.01 (SIM)	-	2
29	05	WATER ROOM	3' - 0"	7' - 0"	1 3/4"	HM	F1	EP-2		HM	1	EP-2	C2/A5.01 (SIM)	C4/A5.01 (SIM)	C5/A5.01 (SIM)	-	
30	05	ELECTRIC ROOM	3' - 0"	7' - 0"	1 3/4"	HM	F1	EP-2		HM	1	EP-2	F1/A5.01	F4/A5.01	F5/A5.01	-	
B1	05	BAY 1	3' - 0"	7' - 0"	1 3/4"	HM	HG1	EP-2		HM	1	EP-2	C2/A5.01	C4/A5.01	C5/A5.01	-	2
B3	05	BAY 3	3' - 0"	7' - 0"	1 3/4"	HM	F1	EP-2		HM	1	EP-2	C2/A5.01 (SIM)	C4/A5.01 (SIM)	C5/A5.01 (SIM)	-	2
C1	03	PUBLIC CORRIDOR	3' - 0"	7' - 0"	1 3/4"	ALUM	HG3	ANODIZED		ALUM		ANODIZED					
C2A	14	PUBLIC CORRIDOR	3' - 0"	7' - 0"	1 3/4"	WD	NL1	PL-3		HM	1	EP-1	B6/A0.04	C6/A0.04		-	
C2B	10	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	HM	NL1	EP-1 / EP-2		HM	1	EP-1 / EP-2	B4/A0.04	C4/A0.04		-	
C3A	08	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	WD	F1	PL-3		HM	1	EP-1	B6/A0.04	C6/A0.04		20 MIN.	
C3B	04	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	HM	NL3	EP-1 / EP-2		HM	1	EP-1 / EP-2	F1/A5.01	F4/A5.01	F5/A5.01	-	2
M02	07	MECHANICAL	6' - 0"	7' - 0"	1 3/4"	HM	F1	EP-2		HM	1	EP-2	B6/A0.04	C6/A0.04		-	
M02A		MECHANICAL	1' - 10"	3' - 0"	1 1/4"		AD	EP-3				EP-3				-	4
OH1		BAY 1	14' - 0"	14' - 0"	2 1/8"	ALUM	OH	ANODIZED 1		ALUM	OH	ANODIZED	B6/A5.03	F6/A5.03	F1/A5.03 (SIM)		3, 6
OH2		BAY 2	14' - 0"	14' - 0"	2 1/8"	ALUM	OH	ANODIZED		ALUM	OH	ANODIZED	B6/A5.03	F6/A5.03	F1/A5.03 (SIM)		3, 6
OH3A		BAY 3	14' - 0"	14' - 0"	2 1/8"	ALUM	OH	ANODIZED		ALUM	OH	ANODIZED	D6/A5.03	F4/A5.03	F1/A5.03		3, 6
OH3B		BAY 3	14' - 0"	14' - 0"	2 1/8"	ALUM	OH	ANODIZED		ALUM	OH	ANODIZED	D6/A5.03	F4/A5.03	F1/A5.03		3, 6

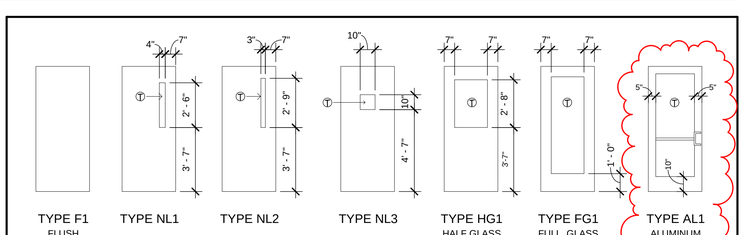
DOOR REMARKS

No.	REMARK
1	REINFORCED HM DOOR FRAME
2	HIGH R-VALUE INSULATED DOOR
3	DOOR POSITION SWITCH
4	SELF-CLOSING ATTIC ACCESS DOOR. INSTALL @ 12" A.F.F.
5	IMPACT RESISTANT DOOR AND FRAME. UNDERCUT NOT TO EXCEED 3/4". REFER TO SPECIFICATIONS FOR DOOR, FRAME & HARDWARE DETAILS.
6	HEIGHT AND WIDTH ARE OPENNG DIMENSIONS. DOOR DIMENSION TO OVERLAP OPENING SIZE BY 1" @ HEAD AND EACH JAMB.



TYPE 1
SINGLE / PAIR STANDARD

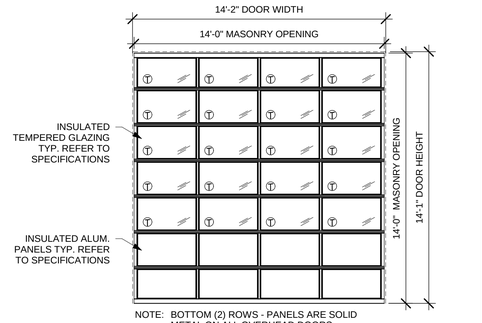
FRAME ELEVATIONS



TYPE F1 FLUSH
TYPE NL1
TYPE NL2
TYPE NL3
TYPE HG1 HALF GLASS
TYPE FG1 FULL GLASS
TYPE AL1 ALUMINUM STOREFRONT

Ⓣ INDICATES TEMPERED SAFETY GLAZING

DOOR ELEVATIONS



NOTE: BOTTOM (2) ROWS - PANELS ARE SOLID METAL ON ALL OVERHEAD DOORS.

TYPE OH

DOOR ELEVATIONS

App Architecture
creative focused design
615 Woodside Drive, Englewood, Ohio 45322
T 937.836.8898 F 937.832.3696
www.app-arch.com

STATE OF OHIO TIMOTHY J. BERNERT 12305 REGISTERED ARCHITECT

Timothy J. Bernert, License #12305
Expiration Date 12/31/2021

Beavercreek Township

Fire Station No. 65

1777 Trebein Road, Beavercreek Township, Ohio 45385

ISSUE:

NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION
1	05/04/2020	CODE REVISIONS

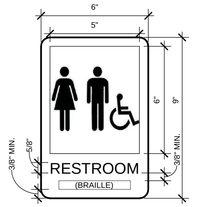
DATE	04/03/2020
JOB NO.	3541.01
DRAWN	CMS
CHECKED	TJB
CAD	-

TITLE
DOOR AND WINDOW SCHEDULES AND ELEVATIONS

SHEET NO.
A0.03

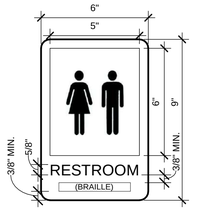
5/6/2020 2:30:53 PM

SIGNAGE LEGEND



UNISEX RESTROOM - TYPE 1

3" = 1'-0"



UNISEX RESTROOM - TYPE 2

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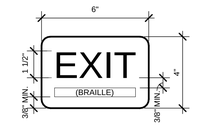
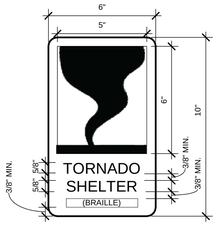


EXIT SIGN - TYPE 3

3" = 1'-0"



TORNADO SHELTER - TYPE 4

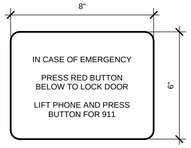
3" = 1'-0"

TORNADO SHELTER - TYPE 5

3" = 1'-0"

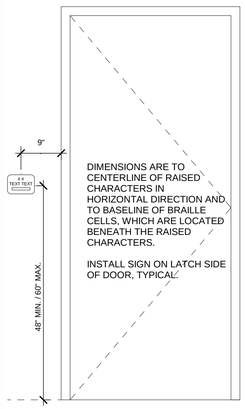
TORNADO SHELTER - TYPE 6

3" = 1'-0"



AREA OF DURESS - TYPE 7

3" = 1'-0"



SIGNAGE LOCATION

3/4" = 1'-0"

SIGN NOTES

A. ALL SIGNS SHALL HAVE BRAILLE LETTERING BENEATH TEXT, TYPICAL.

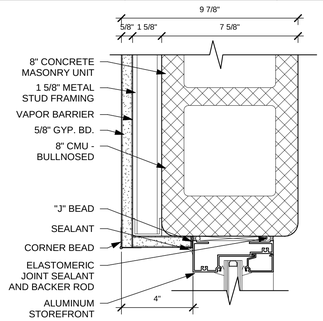
B. SIGNS MOUNTED ON GLASS AT DOOR NEED TO BE MOUNTED WITH ADHESIVE AND MATCHING BACKER PLATE FOR OTHER SIDE OF GLASS.

C. TEXT AND GRAPHICS TO BE NON-GLARE COLOR IN HIGH CONTRAST WITH BACKGROUND. SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

D. BACKGROUND TO BE NON-GLARE COLOR IN HIGH CONTRAST WITH TEXT AND GRAPHICS. SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

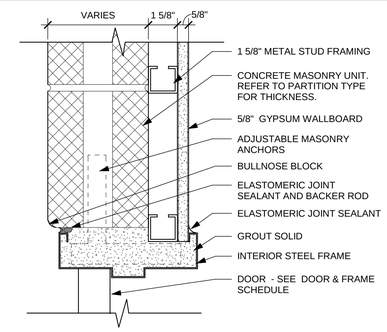
E. 1/2" RADIUS CORNERS.

F. ALL TEXT ON SIGNS LOCATED NEXT TO INTERIOR DOORS WILL BE 1/32" RAISED CHARACTERS, UPPERCASE, AND VIEWABLE AT LESS THAN 6 FEET.



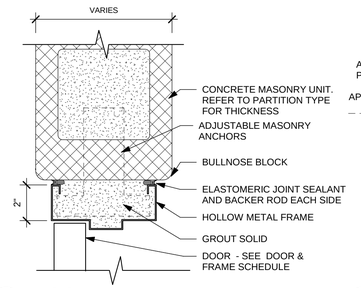
B3 JAMB DETAIL

3" = 1'-0"



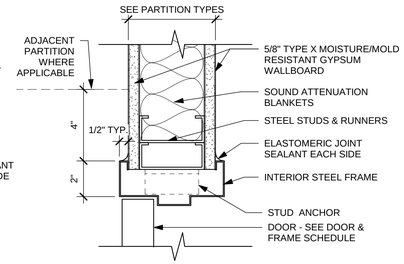
B4 JAMB DETAIL - HOLLOW METAL

3" = 1'-0"



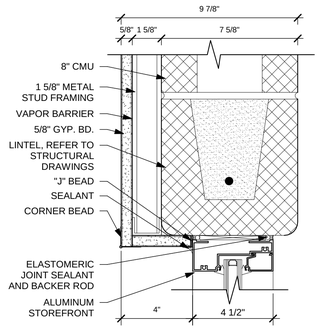
B5 DOOR JAMB DETAIL

3" = 1'-0"



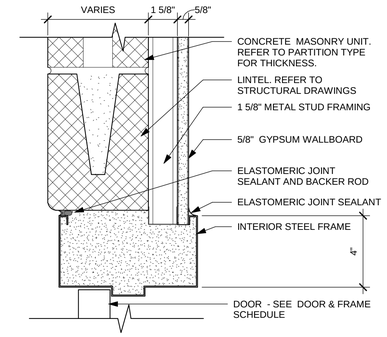
B6 DOOR JAMB DETAIL

3" = 1'-0"



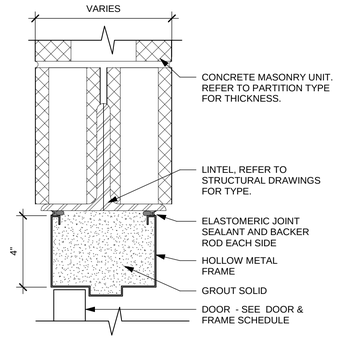
C3 HEAD DETAIL

3" = 1'-0"



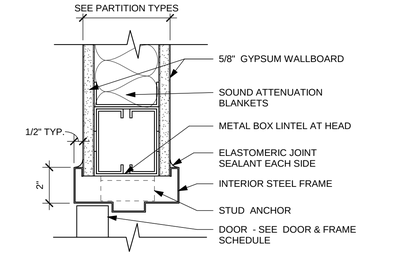
C4 HEAD DETAIL - HOLLOW METAL

3" = 1'-0"



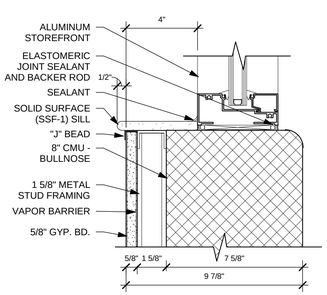
C5 DOOR HEAD DETAIL

3" = 1'-0"



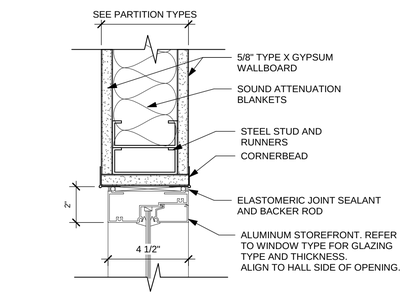
C6 DOOR HEAD DETAIL

3" = 1'-0"



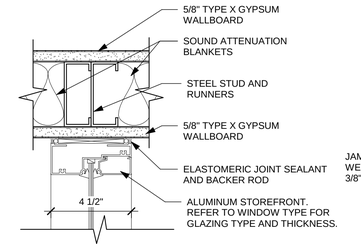
E3 SILL DETAIL

3" = 1'-0"



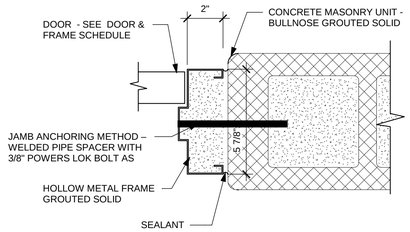
E4 JAMB DETAIL - STOREFRONT

3" = 1'-0"



E5 JAMB DETAIL - STOREFRONT

3" = 1'-0"

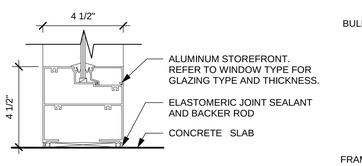


E6 JAMB DETAIL (STORM SHELTER)

3" = 1'-0"

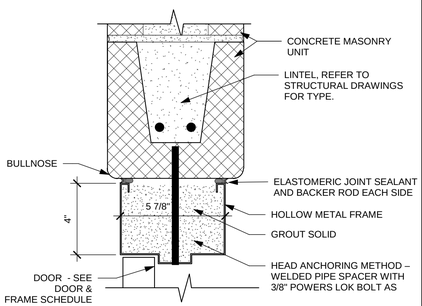
F4 HEAD DETAIL - STOREFRONT

3" = 1'-0"



F5 SILL DETAIL

3" = 1'-0"



F6 HEAD DETAIL (STORM SHELTER)

3" = 1'-0"

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STATE OF OHIO TIMOTHY J. BERNERT REGISTERED ARCHITECT 12305

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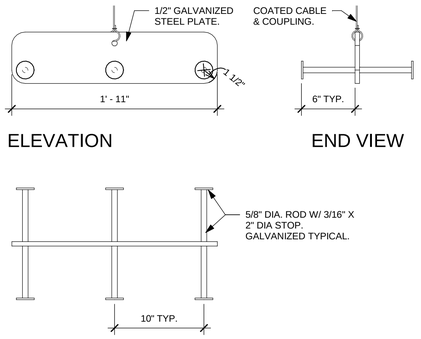
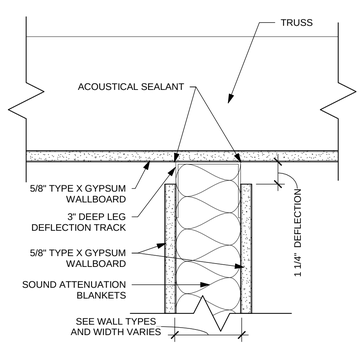
INTERIOR DETAILS

SHEET NO.
A0.04

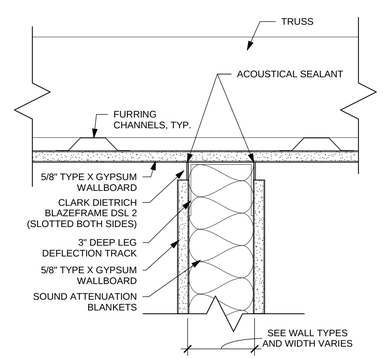
4/7/2020 9:52:36 AM



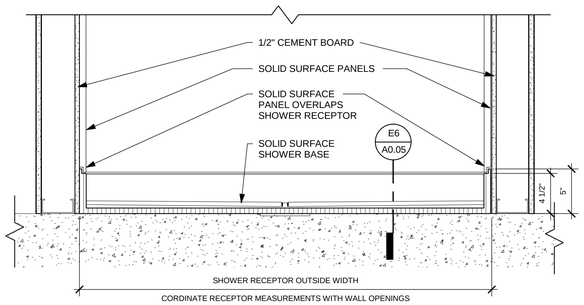
B1 HOSE RACK
1 1/2" = 1'-0"



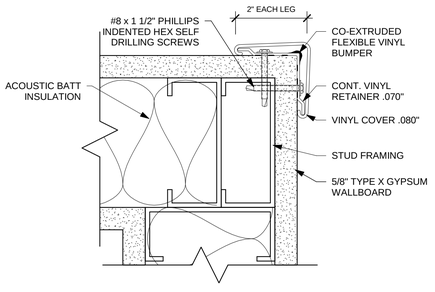
B2 TYPICAL DEFLECTION TRACK DETAIL (NON RATED)
3" = 1'-0"



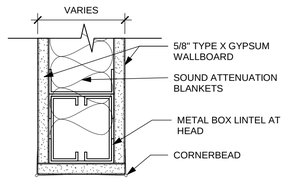
B4 TYPICAL DEFLECTION TRACK DETAIL (RATED)
3" = 1'-0"



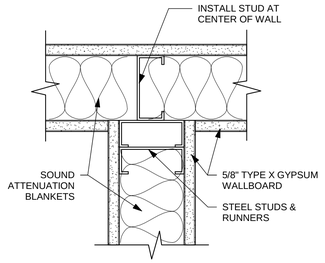
B6 TYP. SHOWER RECEPTOR (TS-5A) DETAIL
1 1/2" = 1'-0"



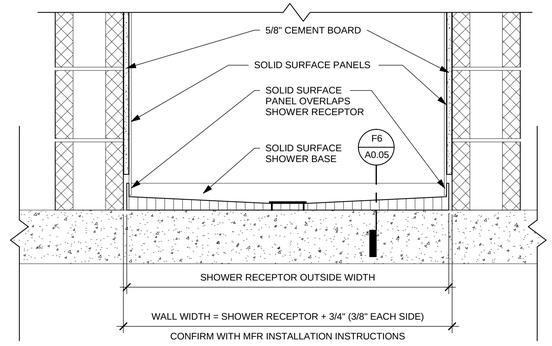
D1 CG-1 CORNER GUARD
6" = 1'-0"



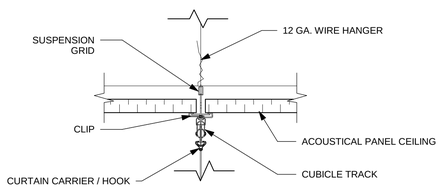
D2 HEAD DETAIL -WALL OPENING
3" = 1'-0"



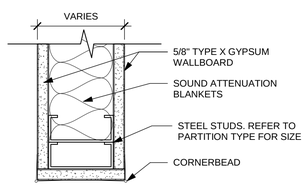
D4 WALL PARTITION DETAIL
3" = 1'-0"



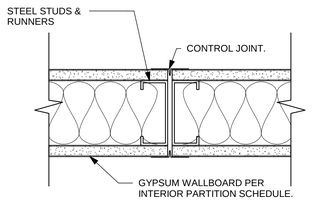
D6 EMS SHOWER RECEPTOR (TS-4) DETAIL
1 1/2" = 1'-0"



E1 CUBICLE CURTAIN TRACK DETAIL
3" = 1'-0"

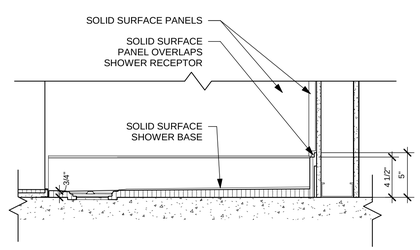


E2 TYP. JAMB DETAIL - WALL OPENING
3" = 1'-0"

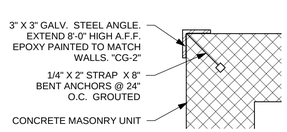


NOTE; EXPANSION JOINTS TO OCCUR EVERY 20'-0" OF UNINTERRUPTED WALL LENGTH.

E4 TYPICAL EXPANSION JOINT DETAIL
3" = 1'-0"

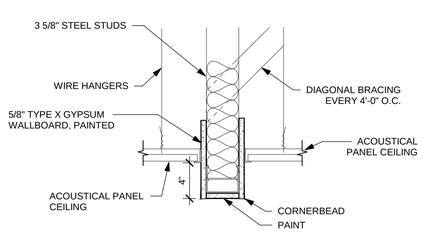


E6 TYP. SHOWER RECEPTOR (TS-5A) SECTION
1 1/2" = 1'-0"

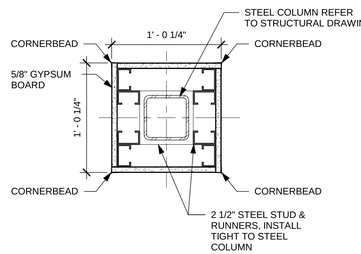


NOTE: INSTALL CORNER GUARD WHERE INDICATED ON FLOOR PLAN

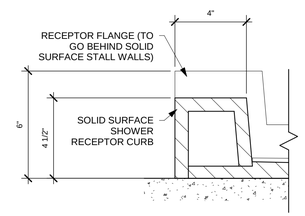
F2 CG-2 CORNER GUARD AT MASONRY WALL
1 1/2" = 1'-0"



F4 BULKHEAD DETAIL
1 1/2" = 1'-0"



F5 COLUMN ENCLOSURE DETAIL
1 1/2" = 1'-0"



F6 SHOWER CURB (TS-4) SECTION
3" = 1'-0"

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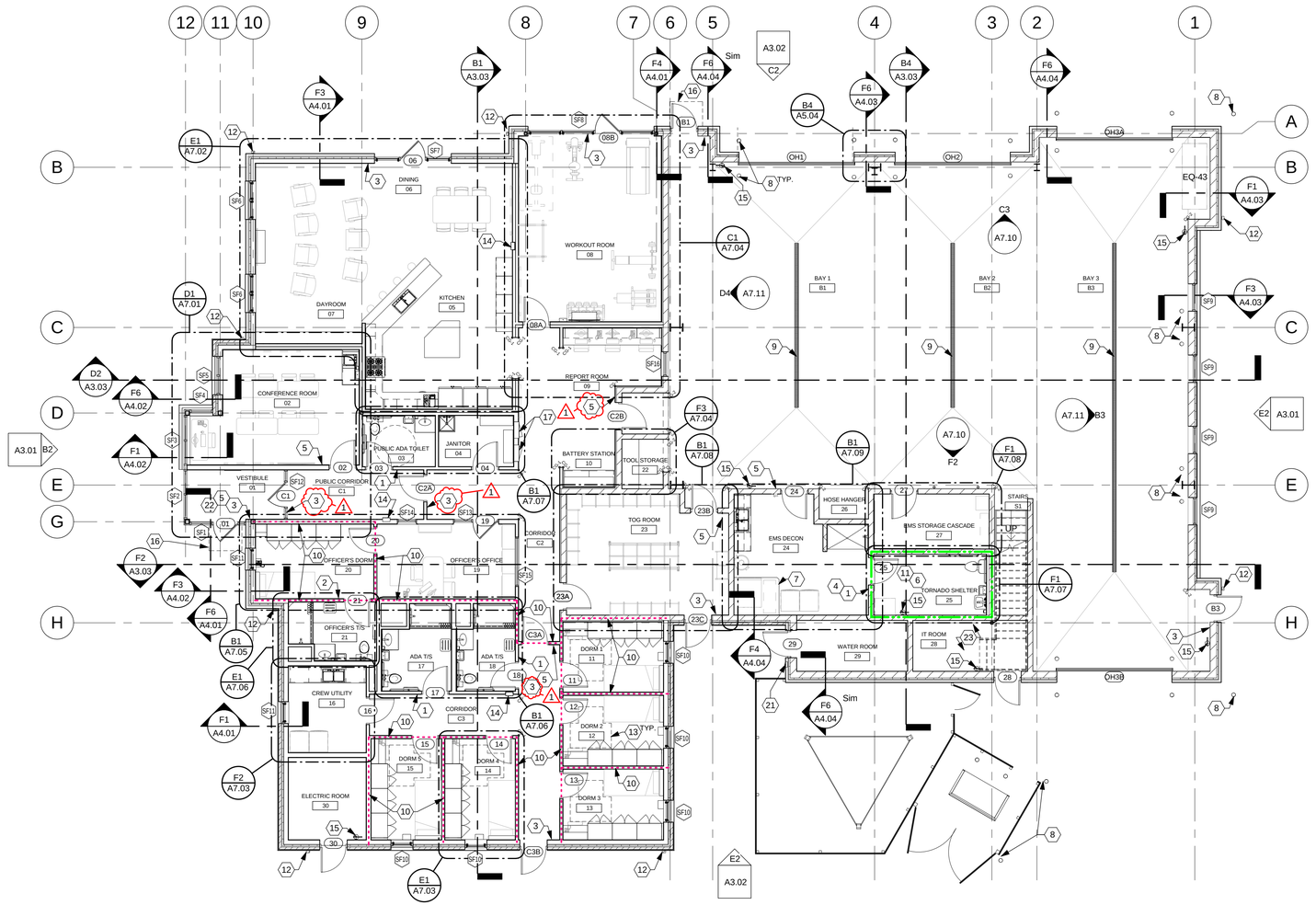
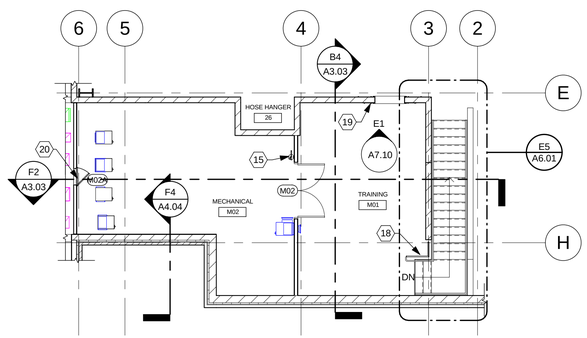


E2 LEVEL 1 FLOOR PLAN - ANNOTATED
1/8" = 1'-0"



F4 MEZZANINE FLOOR PLAN - ANNOTATED
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 RESTROOM SIGN TYPE 1. REFER TO SIGNAGE LEGEND ON SHEET A0.04 FOR DETAILS.

2 RESTROOM SIGN TYPE 2. REFER TO SIGNAGE LEGEND ON SHEET A0.04 FOR DETAILS.

3 EXIT SIGN TYPE 3. REFER TO SIGNAGE LEGEND ON SHEET A0.04 FOR DETAILS.

4 TORNADO SHELTER SIGN TYPE 4. REFER TO SIGNAGE LEGEND ON SHEET A0.04 FOR DETAILS.

5 TORNADO SHELTER SIGN TYPE 6. REFER TO SIGNAGE LEGEND ON SHEET A0.04 FOR DETAILS.

6 REFER TO SHEET G0.02 FOR TORNADO SHELTER SPECIFIC DETAILS.

7 THICKENED SLAB AT TOG WASHER. REFER TO ENLARGED PLAN ON SHEET A7.09 AND STRUCTURAL DRAWINGS FOR DETAILS.

8 METAL PIPE BOLLARD (TYP) AT ALL OVERHEAD DOORS AND WHERE NOTED. REFER TO SHEET C2.3 FOR DETAILS.

9 TRENCH DRAIN. REFER TO PLUMBING DRAWINGS FOR DETAILS.

10 1/2 HOUR RATED PARTITION AROUND R-2 USE AS INDICATED. PROVIDE 1 HR. RATED CEILING ASSEMBLY (F6) PER UL DESIGN NO. P522. REFER TO SHEET A0.02 FOR RATED ASSEMBLY DETAILS.

11 2 HOUR RATED PARTITIONS AROUND TORNADO SHELTER AS INDICATED. PROVIDE 2 HR. RATED CEILING ASSEMBLY (F8) PER UL DESIGN NO. D219. REFER TO SHEET A0.02 FOR RATED ASSEMBLY DETAILS.

12 DOWNSPOUT LOCATION WITH 24" DOWNSPOUT ADAPTOR. BASIS OF DESIGN: PIEDMONT MANUFACTURING, PIEDMONT PIPE DOWNSPOUT - MODEL SO. REFER TO SHEET A5.08 FOR DETAILS.

13 T-SHAPED TURNING SPACE PER FIGURE 304.3 OF THE ICC A117.1-2009. TYPICAL ALL DORM ROOMS.

1 14 SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH 10LB., ABC DRY CHEMICAL FIRE EXTINGUISHER. REFER TO SPECIFICATIONS AND MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.01 FOR DETAILS.

15 WALL HUNG FIRE EXTINGUISHER, 5LB., ABC DRY CHEMICAL, OFCI. REFER TO SPECIFICATIONS. COORDINATE EXACT LOCATION WITH WALL MOUNTED PME ITEMS.

16 GLASS AWNING CENTERED ABOVE DOOR OPENING. REFER TO SHEET A5.09 FOR DETAILS.

17 ELECTRIC PANEL

18 GUARD RAIL. REFER TO VERTICAL CIRCULATION DETAILS ON SHEET A6.01.

19 TRAINING WINDOW OPENING. REFER TO SHEET A7.10 FOR DETAILS.

20 ATTIC ACCESS DOOR. INSTALL AT 12" A.F.F. COORDINATE EXACT LOCATION IN FIELD.

21 KNOX BOX. (EQ-48) OFCI. INSTALL @ 4'-0" A.F.F.

22 AREA OF DURESS SIGN TYPE 7. REFER TO SIGNAGE LEGEND ON SHEET A0.04 FOR DETAILS.

23 SMOKE SEAL ALL PENETRATIONS THIS ROOM.

GENERAL NOTES

A. ALL INTERIOR PARTITIONS ARE TYPE A1 U.N.O.

B. ALL PARTITIONS GO UP TO STRUCTURE ABOVE U.N.O.

C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.

D. REFER TO ELEVATIONS ON SHEET A7.07 & A7.08 FOR TOILET ROOM ACCESSORY CALLOUTS.

E. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.

F. ALL LOCATIONS OF FLOOR DRAINS (F.D.) TO BE COORDINATED WITH PLUMBING DRAWINGS.

G. "CG" INDICATES CORNER GUARD. REFER TO INTERIOR DETAILS FOR MORE INFORMATION.

H. ALL EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.

I. HINGE SIDE OF DOORS ARE 6" FROM ADJACENT WALL U.N.O.

J. DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE U.N.O.

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Timothy J. Bernert, License #12305
Expiration Date 12/31/2021

Beavercreek Township
Fire Station No. 65
1777 Trebein Road, Beavercreek Township, Ohio 45385

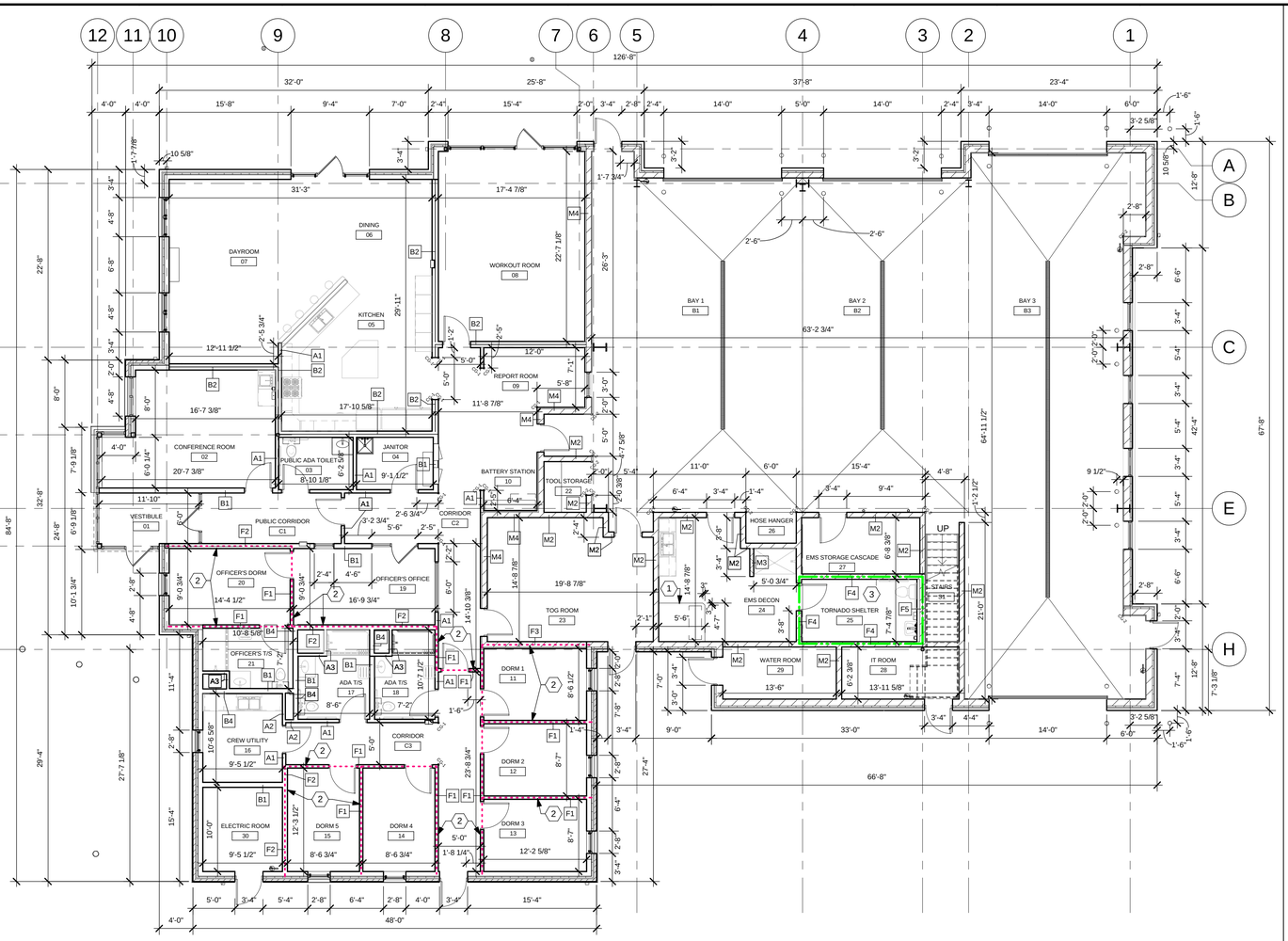
ISSUE:		
NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION
1	05/04/2020	CODE REVISIONS

DATE	04/03/2020
JOB NO.	3541.01
DRAWN	CMS
CHECKED	TJB
CAD	-

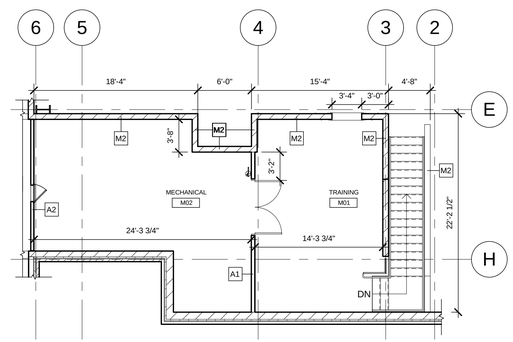
TITLE
FLOOR PLANS ANNOTATED

SHEET NO.
A1.11

5/6/2020 2:31:02 PM



1 LEVEL 1 FLOOR PLAN - DIMENSIONED
1/8" = 1'-0"



F4 MEZZANINE FLOOR PLAN - DIMENSIONED
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 THICKENED SLAB AT TOG WASHER. REFER TO ENLARGED PLAN ON SHEET A7.09 AND STRUCTURAL DRAWINGS FOR DETAILS.

2 1/2 HOUR RATED PARTITION AROUND R-2 USE AS INDICATED. PROVIDE 1 HR. RATED CEILING ASSEMBLY (F6) PER UL DESIGN NO. P522. REFER TO SHEET A0.02 FOR RATED ASSEMBLY DETAILS.

3 2 HOUR RATED PARTITIONS AROUND TORNADO SHELTER AS INDICATED. PROVIDE 2 HR. RATED CEILING ASSEMBLY (F8) PER UL DESIGN NO. D219. REFER TO SHEET A0.02 FOR RATED ASSEMBLY DETAILS.

GENERAL NOTES

A. ALL INTERIOR PARTITIONS ARE TYPE A1 U.N.O.

B. ALL PARTITIONS GO UP TO STRUCTURE ABOVE U.N.O.

C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.

D. REFER TO ELEVATIONS ON SHEET A7.07 & A7.08 FOR TOILET ROOM ACCESSORY CALLOUTS.

E. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.

F. ALL LOCATIONS OF FLOOR DRAINS (F.D.) TO BE COORDINATED WITH PLUMBING DRAWINGS.

G. "CG" INDICATES CORNER GUARD. REFER TO INTERIOR DETAILS FOR MORE INFORMATION.

H. ALL EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.

I. HINGE SIDE OF DOORS ARE 6" FROM ADJACENT WALL U.N.O.

J. DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE U.N.O.

App Architecture
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615 Woodside Drive, Englewood, Ohio 45322
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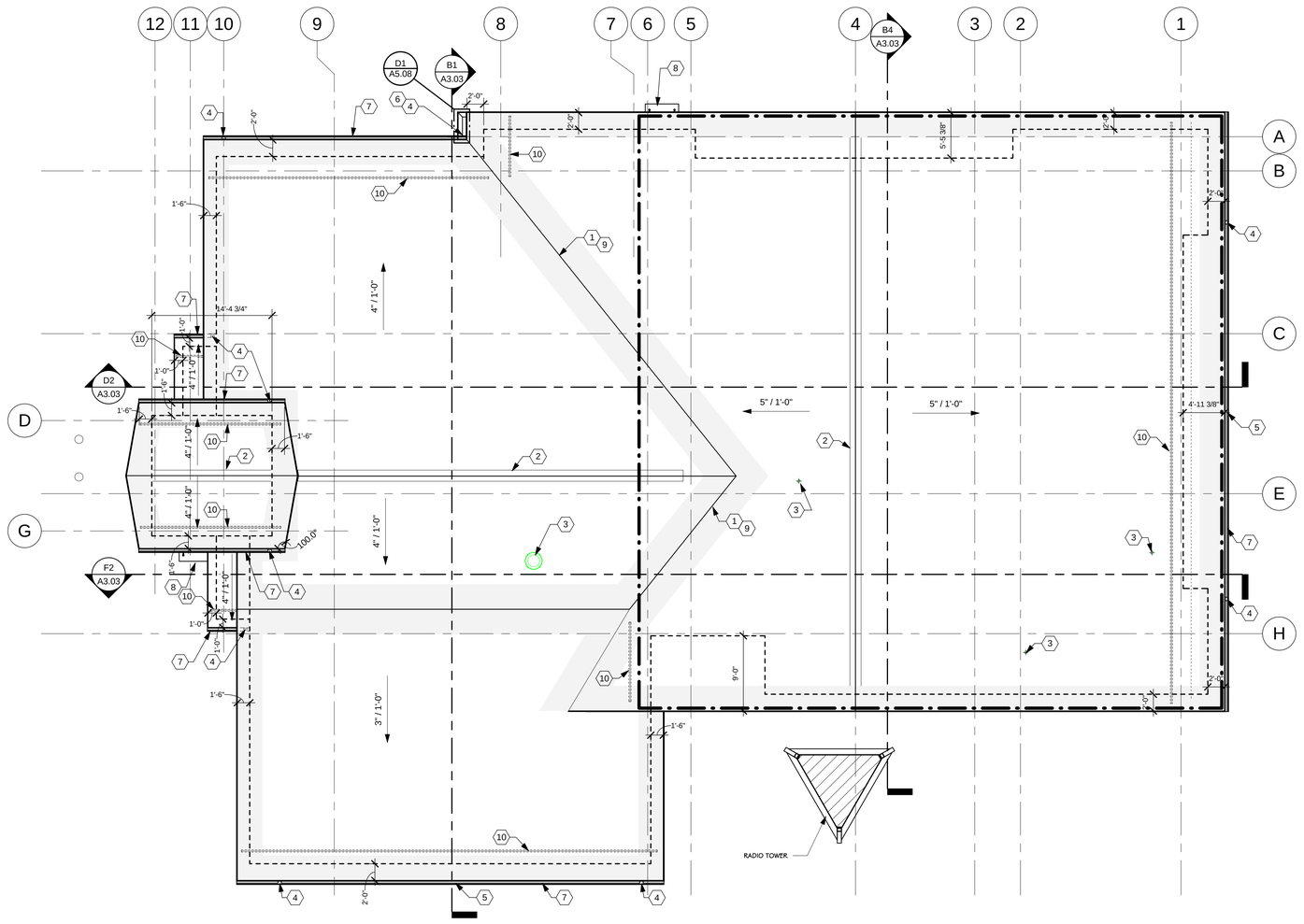
TITLE
FLOOR PLANS DIMENSIONED

SHEET NO.
A1.12

4/7/2020 9:52:51 AM



E2 ROOF PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 "CALIFORNIA CUT" SHINGLES @ VALLEYS.

2 CONTINUOUS RIDGE VENT TO MEET MIN. OF 50% OF REQUIRED 1/300 VENTILATION RATIO.

3 PENETRATION THROUGH ROOF. REFER TO PME DRAWINGS.

4 4"x 6" PREFINISHED GALVALUME DOWNSPOUT TO MATCH GUTTER.

5 GUTTER EXPANSION JOINT - INSTALL PER LATEST EDITION OF SMACNA STANDARDS. GUTTER EXPANSION JOINTS NOT TO EXCEED 40 FT.

6 ALUMINUM CONDUCTOR HEAD. PROFILE BASED ON SMACNA FIGURE 1-25F. GENERAL CONSTRUCTION, CLOSURE FLANGES AND RETURNS TO BE ACCORDING TO SMACNA STANDARDS. REFER TO CALL OUT VIEW FOR MORE DETAILS.

7 7" PREFINISHED GALVALUME GUTTER WITH EXPANSION JOINTS @ 40'-0" O.C. MAX.

8 GLASS AWNING CENTERED ABOVE DOOR OPENING. REFER TO SHEET A5.09 FOR DETAILS.

9 ALTERNATE G-1 – METAL ROOF ALTERNATE. VALLEY FLASHING REFER TO SHEET A5.13 FOR DETAILS.

10 ALTERNATE G-1 – METAL ROOF ALTERNATE. SNOW GUARD.

GENERAL NOTES

A. BASE BID – ALL ROOFS ARE ASPHALT SHINGLES OVER 30# FELT.

B. ALTERNATE G-1 – METAL ROOF ALTERNATE: ALL ROOFS ARE A STANDING SEAM METAL ROOF OVER ICE AND WATER SHIELD.

C. GUTTER EXPANSION JOINTS @ 40'- 0" MAXIMUM.

D. COORDINATE ROOF PENETRATIONS WITH PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS.

E. ALL PENETRATIONS THROUGH ROOF (I.E. VENTS, FLUTES, ETC.) SHALL BE PAINTED TO MATCH ROOF. ALL PENETRATIONS TO OCCUR ON WEST SLOPES OF ROOFS.

F. ROOF VENTILATION TO BE MAINTAINED @ A MINIMUM OF 1:300 RATIO. (1/300) x 9,000 SF = 30 SF OF VENTILATION MINIMUM. PROVIDE 1/2 @ RIDGE PEEKS AND 1/2 THROUGH VENTED SOFFITS.

ROOF PLAN LEGEND

INDICATES EXTERIOR EDGE OF WALL BELOW

INDICATES LIMITS OF INSULATED NAILBASE AREA.

INDICATES ICE AND WATER SHIELD FOR FIRST 3'-0" OF ROOF AT GUTTERS, VALLEYS, AND WHERE LOWER ROOFS MEET ADJACENT WALLS. (ALTERNATE G-1 - METAL ROOF ALTERNATE, ICE AND WATER SHIELD TO BE UNDER ENTIRE METAL ROOF SURFACE)

ALTERNATE G-1 - METAL ROOF ALTERNATE: SNOW GUARD LOCATIONS.

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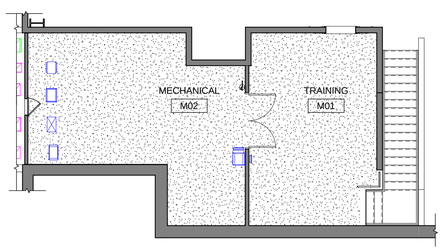
TITLE
ROOF PLAN

SHEET NO.
A1.31

4/7/2020 9:52:54 AM

E2 LEVEL 1 FLOOR PLAN - FINISHES
1/8" = 1'-0"



F4 MEZZANINE FLOOR PLAN - FINISHES
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 MATT-1 FLOORING THIS AREA.

FLOORING LEGEND

- CPT-1
- EFP
- MATT-1
- PC
- PT-1
- RF
- SC

GENERAL NOTES

A. REFER TO ELEVATIONS ON SHEET A7.06 & A7.07 FOR TOILET ROOM ACCESSORY CALLOUTS AND PWT LAYOUTS.

B. "CG" INDICATES CORNER GUARD. REFER TO INTERIOR DETAILS FOR MORE INFORMATION.

C. ALL EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.

D. REFER TO SPECIFICATIONS FOR "DRY-FALL" PAINTING DETAILS FOR APPARATUS BAYS.

E. ALL INTERIOR HM DOORS & FRAMES ARE TO BE PAINTED EP-1 U.N.O.

F. ALL EXTERIOR AND APPARATUS BAY HM DOORS & FRAMES ARE TO BE PAINTED EP-2 U.N.O.

G. INTERIOR ACCENT WALL PAINT IS IDENTIFIED ON PLAN. REFER TO ROOM FINISH SCHEDULE FOR FIELD COLORS AND DETAILS.

H. STAIR RISERS, STRINGERS, AND RAILING TO BE PAINTED EP-2.

I. TRANSITION STRIPS ARE REQUIRED WHERE DIFFERING FLOORING TYPES MEET.

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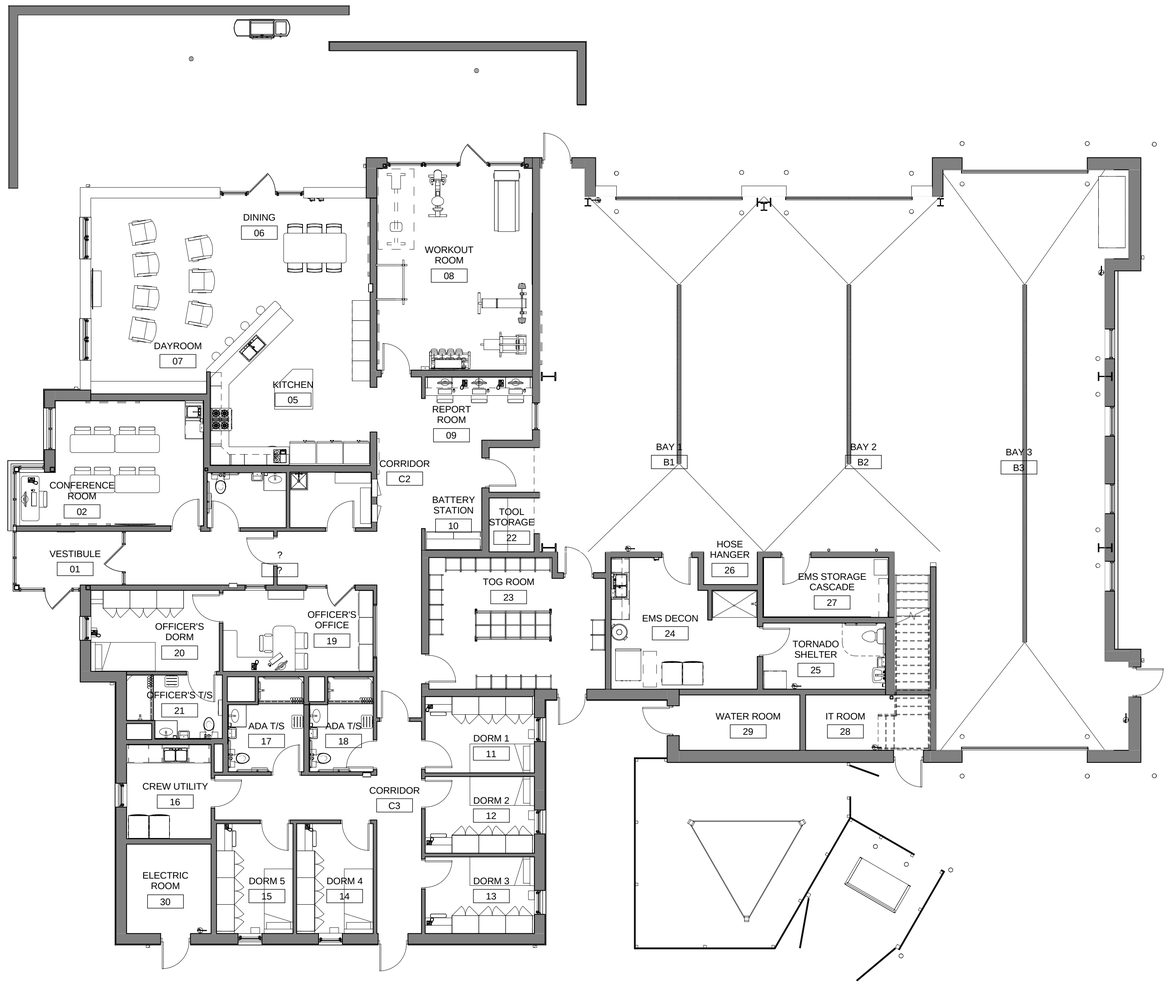
TITLE
FINISHES FLOOR PLAN

SHEET NO.
A1.41

4/7/2020 9:53:06 AM



1 LEVEL 1 FLOOR PLAN - EQUIPMENT
1/8" = 1'-0"

EQUIPMENT SCHEDULE - OFOI

QTY.	TYPE	ROOM	DESCRIPTION	COMMENTS
1	EQ-11	08	GYM EQ. - ROWER	
1	EQ-12	08	GYM EQ. - TREADMILL	
1	EQ-13	08	GYM EQ. - STATIONARY BIKE	
1	EQ-14	08	GYM EQ. - PULL DOWN MACHINE	
1	EQ-15	08	GYM EQ. - WEIGHT BENCH	
1	EQ-16	08	GYM EQ. - DUMB BELL RACK	
2	EQ-17	08	SAUNA, ELECTRIC	FUTURE
1	EQ-23	03	TRASH BIN, 7 GALLON	
1	EQ-23	17	TRASH BIN, 7 GALLON	
1	EQ-23	18	TRASH BIN, 7 GALLON	
1	EQ-23	21	TRASH BIN, 7 GALLON	
1	EQ-28	27	OXYGEN FILL STATION	
1	EQ-31	02	COMPUTER	
3	EQ-31	09	COMPUTER	
1	EQ-31	19	COMPUTER	
1	EQ-32	02	TELEPHONE, DESK	
2	EQ-32	09	TELEPHONE, DESK	
1	EQ-32	11	TELEPHONE, DESK	
1	EQ-32	12	TELEPHONE, DESK	
1	EQ-32	13	TELEPHONE, DESK	
1	EQ-32	14	TELEPHONE, DESK	
1	EQ-32	15	TELEPHONE, DESK	
1	EQ-32	19	TELEPHONE, DESK	
1	EQ-32	20	TELEPHONE, DESK	
2	EQ-33	06	TELEPHONE, WALL	
1	EQ-33	08	TELEPHONE, WALL	
1	EQ-33	24	TELEPHONE, WALL	
1	EQ-37	24	BIOHAZARD CAN, 32 GALLON	

EQUIPMENT SCHEDULE - OFOI

QTY.	TYPE	ROOM	DESCRIPTION	COMMENTS
1	EQ-43	B3	HOSE RACK	
1	EQ-45	06	GRILL, GAS OUTDOOR	
7	F-1	07	CHAIR, RECLINER	
4	F-2	07	BAR STOOL	
1	F-3	06	DINING TABLE 40"x 84"	
6	F-4	06	DINING CHAIR	
9	F-5	02	CHAIR, TASK	
3	F-5	09	CHAIR, TASK	
1	F-5	11	CHAIR, TASK	
1	F-5	12	CHAIR, TASK	
1	F-5	13	CHAIR, TASK	
1	F-5	14	CHAIR, TASK	
1	F-5	15	CHAIR, TASK	
2	F-5	19	CHAIR, TASK	
5	F-6	02	TABLE, 24"X60"	
1	F-7	11	BED, SUPER SINGLE	
1	F-7	12	BED, SUPER SINGLE	
1	F-7	13	BED, SUPER SINGLE	
1	F-7	14	BED, SUPER SINGLE	
1	F-7	15	BED, SUPER SINGLE	
1	F-7	20	BED, SUPER SINGLE	
3	F-8	19	LATERAL FILE, 3-DRAWER' 36" W	
1	F-9	19	DESK ASSEMBLY	
1	F-10	19	CHAIRS, TASK W/ ARMS	
1	F-11	19	BOOK SHELF	

EQUIPMENT SCHEDULE - OFCI

QTY.	TYPE	ROOM	DESCRIPTION	COMMENTS
2	EQ-1	02	DRY ERASE BOARD - 6'	
1	EQ-1	06	DRY ERASE BOARD - 6'	
1	EQ-1	08	DRY ERASE BOARD - 6'	
1	EQ-1	B1	DRY ERASE BOARD - 6'	
1	EQ-2B	C2	BULLETIN BOARD - 4'	
1	EQ-3A	02	MONITOR - 60"	WALL MOUNT
1	EQ-3A	07	MONITOR - 60"	WITH WALL MOUNT
1	EQ-3B	08	MONITOR - 50"	WITH WALL MOUNT
3	EQ-4	05	REFRIGERATOR	
1	EQ-5	05	COFFEE MAKER	
1	EQ-6	05	ICE MAKER, UNDER COUNTER	
1	EQ-7	05	RANGE, GAS 30"	
1	EQ-9	05	DISHWASHER, 24"	
1	EQ-10	08	GYM EQ. - POWER RACK	
1	EQ-19A	02	WALL MOUNT FOR 60" MONITOR	
1	EQ-19A	07	WALL MOUNT FOR 60" MONITOR	
1	EQ-19B	08	WALL MOUNT FOR 50" MONITOR	
1	EQ-19C	11	WALL MOUNT FOR MONITOR </= 32"	
1	EQ-19C	12	WALL MOUNT FOR MONITOR </= 32"	
1	EQ-19C	13	WALL MOUNT FOR MONITOR </= 32"	
1	EQ-19C	14	WALL MOUNT FOR MONITOR </= 32"	MONITOR NOT INCLUDED
1	EQ-19C	15	WALL MOUNT FOR MONITOR </= 32"	
1	EQ-19C	19	WALL MOUNT FOR MONITOR </= 32"	
1	EQ-19C	20	WALL MOUNT FOR MONITOR </= 32"	NO MONITOR
1	EQ-19C	C2	WALL MOUNT FOR MONITOR </= 32"	
1	EQ-20	16	CLOTHES WASHER	
1	EQ-20	24	CLOTHES WASHER	
1	EQ-21	16	CLOTHES DRYER	
1	EQ-21	24	CLOTHES DRYER	
18	EQ-24	23	TURN OUT GEAR LOCKER, WALL MOUNT, OPEN	
1	EQ-25	23	TURN OUT GEAR LOCKER, FLOOR MOUNT, DIVIDED, (10) PACK	
1	EQ-27	27	OXYGEN CASCADE WITH WALL STRAP	CONTRACTOR TO INSTALL STRAP ONLY
1	EQ-29	24	TOG GEAR WASHER	
1	EQ-34	02	WALL CLOCK	72" A.F.F.
1	EQ-34	06	WALL CLOCK	
1	EQ-34	08	WALL CLOCK	
1	EQ-34	16	WALL CLOCK	72" A.F.F.
1	EQ-34	23	WALL CLOCK	
1	EQ-35	05	MICROWAVE	
1	EQ-39	08	GYM EQ. - JUMP ROPE RACK	

EQUIPMENT SCHEDULE - OFCI

QTY.	TYPE	ROOM	DESCRIPTION	COMMENTS
1	EQ-44	01	DEDICATION PLAQUE	COORDINATION SIZE/LOCATION WITH OWNER
1	EQ-46	25	FIRE EXTINGUISHER, WALL MOUNT	REFER TO SHEET A1.11
1	EQ-46	28	FIRE EXTINGUISHER, WALL MOUNT	REFER TO SHEET A1.11
1	EQ-46	30	FIRE EXTINGUISHER, WALL MOUNT	REFER TO SHEET A1.11
2	EQ-46	B1	FIRE EXTINGUISHER, WALL MOUNT	REFER TO SHEET A1.11
2	EQ-46	B3	FIRE EXTINGUISHER, WALL MOUNT	REFER TO SHEET A1.11
1	EQ-46	M02	FIRE EXTINGUISHER, WALL MOUNT	REFER TO SHEET A1.11
4	EQ-47	24	GEAR HANGER	COORDINATE WITH OWNER
1	EQ-48	29	RECESSED MOUNT EMERGENCY KEY CABINET (KNOX BOX)	OUTSIDE OF DOOR 29
1	FEC	06	SEMI RECESSED FIRE EXTINGUISHER CABINET	REFER TO SHEET A1.11
1	FEC	C01	SEMI RECESSED FIRE EXTINGUISHER CABINET	REFER TO SHEET A1.11
1	FEC	C03	SEMI RECESSED FIRE EXTINGUISHER CABINET	REFER TO SHEET A1.11
1	TS-9	02	SOAP DISPENSER	
1	TS-9	03	SOAP DISPENSER	
1	TS-9	17	SOAP DISPENSER	
1	TS-9	18	SOAP DISPENSER	
1	TS-9	21	SOAP DISPENSER	
1	TS-9	24	SOAP DISPENSER	
1	TS-9	25	SOAP DISPENSER	
1	TS-10	02	PAPER TOWEL DISPENSER	
1	TS-10	03	PAPER TOWEL DISPENSER	
1	TS-10	08	PAPER TOWEL DISPENSER	
1	TS-10	17	PAPER TOWEL DISPENSER	
1	TS-10	18	PAPER TOWEL DISPENSER	
1	TS-10	21	PAPER TOWEL DISPENSER	
1	TS-10	24	PAPER TOWEL DISPENSER	
1	TS-10	25	PAPER TOWEL DISPENSER	
1	TS-11	03	TOILET PAPER DISPENSER	
1	TS-11	17	TOILET PAPER DISPENSER	
1	TS-11	18	TOILET PAPER DISPENSER	
1	TS-11	21	TOILET PAPER DISPENSER	

EQUIPMENT SCHEDULE - CFCI

QTY.	TYPE	ROOM	DESCRIPTION	COMMENTS
1	EQ-8	05	RANGE HOOD, 30" AND STAINLESS STEEL BACKSPLASH	REFER TO HVAC DRAWINGS AND SPECIFICATIONS
2	EQ-18	08	MIRROR, WALL - 48"x 84"	
1	EQ-22	04	MOP HANGER WITH OVERSHELF	REFER TO SPECIFICATIONS
1	EQ-30	24	LINT TRAP	REFER TO PLUMBING DRAWINGS/SPECS
1	EQ-36		CEILING FAN, 36"	
2	EQ-38	08	FAN, WALL MOUNT	REFER TO ELECTRICAL DRAWING AND SPECIFICATIONS
2	EQ-40	B2	LADDER TIE-OFF, 3/4" DIA. EYE-BOLT, GALV.	EPOXY INTO CMU
1	EQ-41	B2	REPELLING ANCHOR, SWIVEL, 10,000 lb	
4	EQ-42	B2	1/8" ALUM. TREAD PLATE	
4	EQ-42	M01	1/8" ALUM. TREAD PLATE	
1	EQ-49	25	CUBICAL CURTAIN & TRACK	REFER TO SHEET A7.07
1	TS-1	03	GRAB BAR, STAINLESS STEEL, (3) PIEC ASSEMBLY, 1.25" DIA.	REFER TO SPECIFICATIONS
1	TS-1	17	GRAB BAR, STAINLESS STEEL, (3) PIEC ASSEMBLY, 1.25" DIA.	REFER TO SPECIFICATIONS
1	TS-1	18	GRAB BAR, STAINLESS STEEL, (3) PIEC ASSEMBLY, 1.25" DIA.	REFER TO SPECIFICATIONS
1	TS-1	25	GRAB BAR, STAINLESS STEEL, (3) PIEC ASSEMBLY, 1.25" DIA.	REFER TO SPECIFICATIONS
2	TS-2	17	GRAB BAR, STAINLESS STEEL 24" x 1.25" DIA.	REFER TO SPECIFICATIONS
2	TS-2	18	GRAB BAR, STAINLESS STEEL 24" x 1.25" DIA.	REFER TO SPECIFICATIONS
1	TS-3	17	GRAB BAR, STAINLESS STEEL 48" x 1.25" DIA.	REFER TO SPECIFICATIONS
1	TS-3	18	GRAB BAR, STAINLESS STEEL 48" x 1.25" DIA.	REFER TO SPECIFICATIONS
1	TS-4	03	MIRROR, WALL - 18" x 36"	REFER TO SPECIFICATIONS
1	TS-4	17	MIRROR, WALL - 18" x 36"	REFER TO SPECIFICATIONS
1	TS-4	18	MIRROR, WALL - 18" x 36"	REFER TO SPECIFICATIONS

EQUIPMENT SCHEDULE - CFCI

QTY.	TYPE	ROOM	DESCRIPTION	COMMENTS
1	TS-4	21	MIRROR, WALL - 18" x 36"	REFER TO SPECIFICATIONS
1	TS-4	25	MIRROR, WALL - 18" x 36"	REFER TO SPECIFICATIONS
1	TS-5	17	SHOWER ROD	REFER TO SPECIFICATIONS
1	TS-5	18	SHOWER ROD	REFER TO SPECIFICATIONS
1	TS-5	21	SHOWER ROD	REFER TO SPECIFICATIONS
1	TS-6	17	SEAT, FOLDING	REFER TO SPECIFICATIONS
1	TS-6	18	SEAT, FOLDING	REFER TO SPECIFICATIONS
1	TS-6	21	SEAT, FOLDING	REFER TO SPECIFICATIONS
1	TS-7	03	COAT HOOK, DOUBLE	REFER TO SPECIFICATIONS
1	TS-7	11	COAT HOOK, DOUBLE	REFER TO SPECIFICATIONS
1	TS-7	12	COAT HOOK, DOUBLE	REFER TO SPECIFICATIONS
1	TS-7	13	COAT HOOK, DOUBLE	REFER TO SPECIFICATIONS
1	TS-7	14	COAT HOOK, DOUBLE	REFER TO SPECIFICATIONS
1	TS-7	15	COAT HOOK, DOUBLE	REFER TO SPECIFICATIONS
1	TS-7	17	COAT HOOK, DOUBLE	REFER TO SPECIFICATIONS
1	TS-7	18	COAT HOOK, DOUBLE	REFER TO SPECIFICATIONS
2	TS-7	19	COAT HOOK, DOUBLE	REFER TO SPECIFICATIONS
1	TS-7	20	COAT HOOK, DOUBLE	REFER TO SPECIFICATIONS
1	TS-7	21	COAT HOOK, DOUBLE	REFER TO SPECIFICATIONS
2	TS-8	17	SOAP DISH, CORNER	INPRO, ENDURANT, SOAP DISH, 5"x5", PART# DSSHPS
2	TS-8	18	SOAP DISH, CORNER	INPRO, ENDURANT, SOAP DISH, 5"x5", PART# DSSHPS
2	TS-8	21	SOAP DISH, CORNER	INPRO, ENDURANT, SOAP DISH, 5"x5", PART# DSSHPS

GENERAL NOTE:

PLUMBING, HVAC, AND ELECTRICAL EQUIPMENT NOT REFLECTED ON THIS SHEET.

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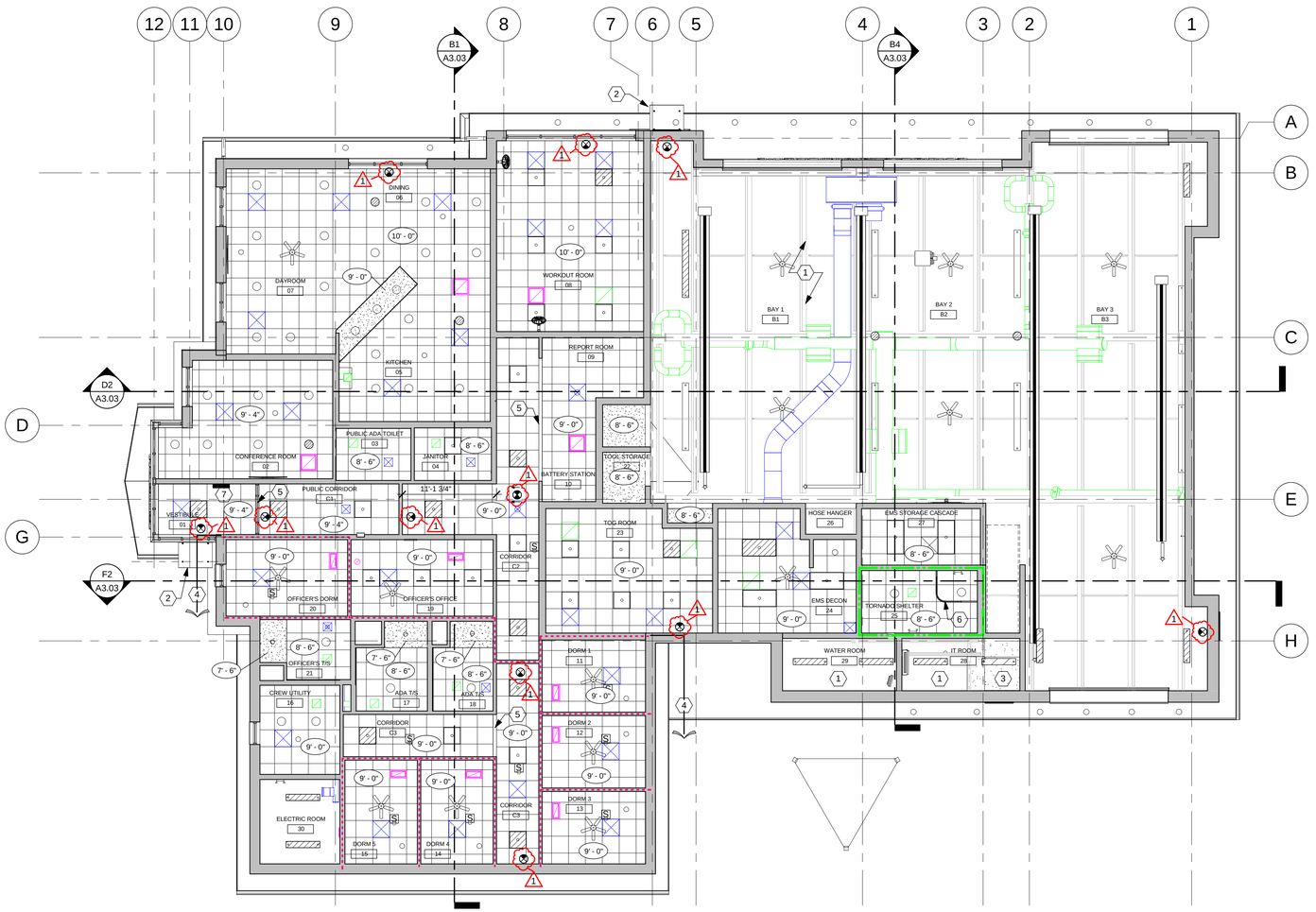
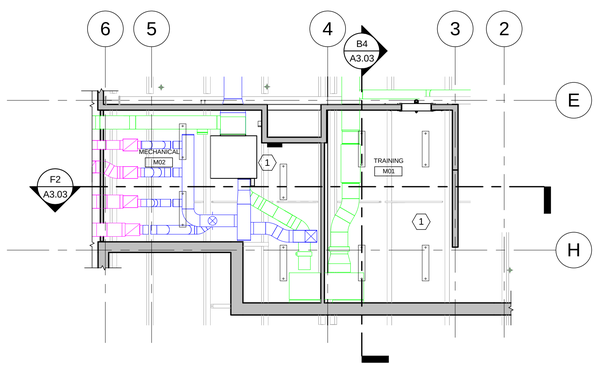
TITLE
EQUIPMENT PLAN

SHEET NO.
A1.51

4/7/2020 9:53:13 AM



E2 LEVEL 1 REFLECTED CEILING PLAN
1/8" = 1'-0"



F4 MEZZANINE REFLECTED CEILING PLAN
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 EXPOSED STRUCTURE ABOVE.

2 GLASS AWNING CENTERED ABOVE DOOR OPENING. REFER TO SHEET A5.09 FOR DETAILS.

3 CEILING TYPE F7. 7/8" FURRING AND (2) LAYERS OF 5/8" TYPE "X" GYP. BD. ATTACHED TO UNDERSIDE OF STAIR STRINGERS ABOVE. UL. L532.

4 CEILING TYPE F6. U.L. P522 RATED CEILING REQUIRED IN R-2 SLEEPING AREA (EVERYTHING WEST OF 1/2 HOUR RATED PARTITION).

5 BULKHEAD. REFER TO SHEET A0.05 FOR DETAILS.

6 CUBICAL CURTAIN TRACK. REFER TO NOTES ON SHEET A7.07 AND DETAIL ON SHEET A0.05.

7 HOLD DOWN CLIPS ON ACOUSTICAL PANEL CEILING THIS ROOM.

GENERAL NOTES

A. REFER TO ROOM FINISH SCHEDULE, MATERIALS LEGEND, AND SPECIFICATIONS FOR CEILING TYPES AND FINISHES.

B. MEASURE CEILING AND LAYOUT GRIDS TO BALANCE BORDER WIDTHS AT OPPOSITE EDGES. BORDER TILES TO BE 3" MINIMUM U.N.O. INSTALL EDGE MOLDING AT PERIMETER U.N.O.

C. REFER TO PME DRAWINGS FOR DEVICE DESCRIPTIONS.

D. ALL EXPOSED GYPSUM BOARD SURFACES SHALL BE PAINTED.

E. EXPOSED STRUCTURE SHALL BE PAINTED PER SPECIFICATIONS.

F. GENERAL CONTRACTOR TO COORDINATE THE LOCATION OF ALL ALERTING SYSTEM DEVICES WITH THE DEVICES SHOWN ON THIS PLAN.

G. ALL DEVICES INSTALLED IN THE ACOUSTICAL PANEL CEILINGS ARE TO BE CENTERED IN THE TILE.

H. CONTRACTOR TO BRING ANY CONFLICTS TO THE ARCHITECT'S ATTENTION PRIOR TO INSTALLATION.

RCP LEGEND

INDICATES ACOUSTICAL PANEL CEILING SYSTEM

INDICATES GYPSUM WALLBOARD CEILING

INDICATES 1/2 HOUR RATED PARTITION

INDICATES 2 HOUR RATED PARTITION

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Timothy J. Bernert, License #12305
Expiration Date 12/31/2021

Beavercreek Township

Fire Station No. 65

1777 Trebein Road, Beavercreek Township, Ohio 45385

ISSUE:

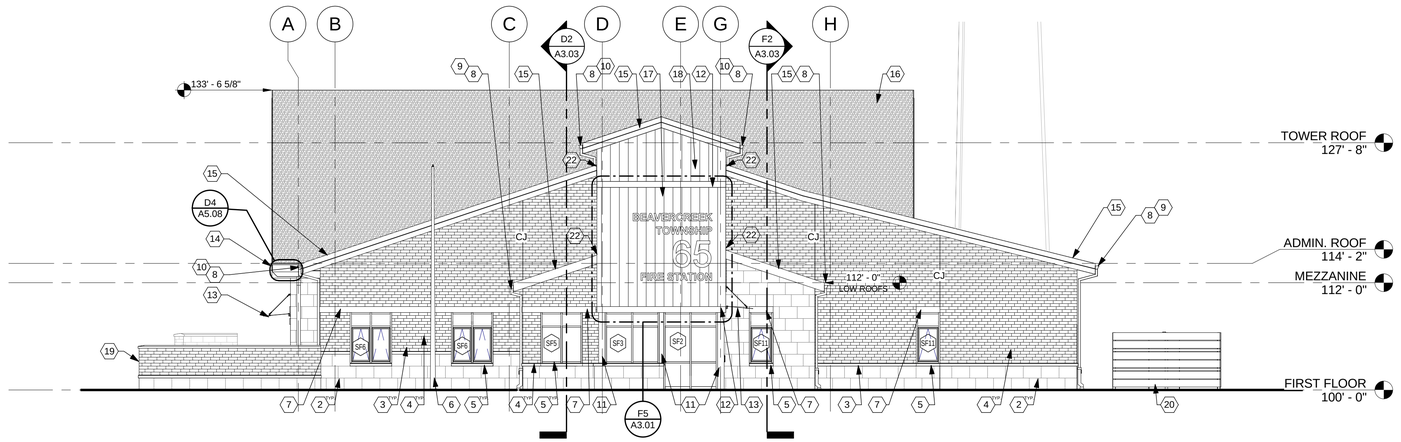
NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION
1	05/04/2020	CODE REVISIONS

DATE	04/03/2020
JOB NO.	3541.01
DRAWN	CMS
CHECKED	TJB
CAD	-

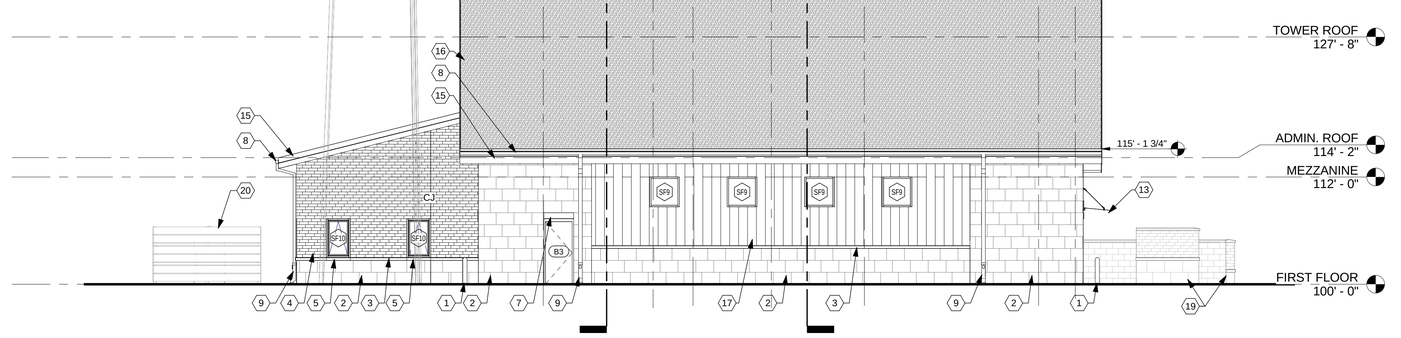
TITLE
REFLECTED CEILING PLANS

SHEET NO.
A2.11

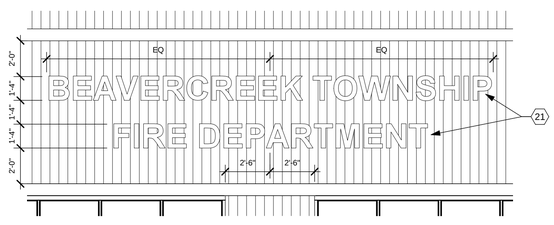
5/6/2020 2:31:06 PM



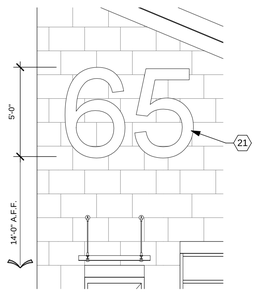
B2 NORTH ELEVATION
1/8" = 1'-0"



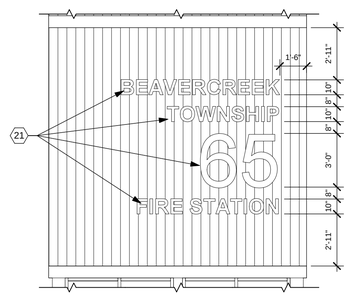
E2 SOUTH ELEVATION
1/8" = 1'-0"



F2 DIMENSIONAL LETTERING DETAIL
1/4" = 1'-0"



F4 DIMENSIONAL LETTERING DETAIL
1/4" = 1'-0"



F5 DIMENSIONAL LETTERING DETAIL
1/4" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 METAL PIPE BOLLARD (TYP) AT ALL OVERHEAD DOORS AND WHERE NOTED. REFER TO SHEET A5.04 FOR DETAILS.

2 16"x 24"x 4" BURNISHED FACE CMU VENEER.

3 CAST STONE WATER TABLE.

4 UTILITY BRICK VENEER.

5 CAST STONE SILL.

6 FLAG POLE.

7 8" TALL CAST STONE TRIM BAND.

8 7" PREFINISHED GALVALUME GUTTER.

9 4"x 6" PREFINISHED GALVALUME DOWNSPOUT WITH ADAPTOR. BASIS OF DESIGN: PIEDMONT MANUFACTURING, PIEDMONT PIPE DOWNSPOUT - MODEL SO. REFER TO SHEET A5.08 FOR DETAILS. DOWNSPOUT COLOR TO MATCH GUTTER. ADAPTOR COLOR TO BE PICKED BY ARCHITECT FROM MANUFACTURER'S STANDARD OPTIONS.

10 4"x 6" PREFINISHED GALVALUME DOWNSPOUT. DISCHARGE ON TO ROOF BELOW. COLOR TO MATCH GUTTER.

11 BREAK METAL TO MATCH STOREFRONT MULLIONS.

12 8" PHENOLIC PLANKING SIDING (PPS3) INSTALLED HORIZONTALLY. REFER TO SHEET A5.11 FOR TYPICAL DETAILS.

13 GLASS AWNING CENTERED ABOVE DOOR OPENING. REFER TO SHEET A5.09 FOR DETAILS.

14 PREFINISHED GALVALUME CONDUCTOR HEAD.

15 PREFINISHED GALVALUME FASCIA. COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

16 ASPHALT SHINGLES OVER 30# FELT.

17 PHENOLIC PLANK SIDING (PPS1). REFER TO SHEET A5.11 FOR TYPICAL DETAILS.

18 PHENOLIC PLANK SIDING (PPS2). REFER TO SHEET A5.11 FOR TYPICAL DETAILS.

19 MASONRY SCREEN WALL. REFER TO SHEET A5.10 FOR DETAILS.

20 WOOD SCREEN FENCE. REFER TO SHEET A5.10 FOR DETAILS.

21/2 METAL DIMENSIONAL LETTERING. 1" DEEP, NON ILLUMINATED CHANNEL LETTERS WITH 1/8" THICK ALUMINUM FACES SET UP TO BE STUD MOUNTED TO BUILDING. PROVIDE SPACERS TO ALLOW LETTERING TO BE OFFSET 1" FROM FACE OF BUILDING FACADE. ARIAL BOLD TYPE FACE, HEIGHT AND JUSTIFICATION AS SHOWN.

22 VENT AT ROOF/WALL CONNECTION. REFER TO F1/A5.08 FOR DETAILS.

GENERAL NOTES

A. ALL MASONRY VENEER IS 1/3 RUNNING BOND.

B. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.

C. "CJ" = MASONRY CONTROL JOINT

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NO.	DATE	DESCRIPTION
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2	08/12/2020	ADDENDUM 1

DATE	04/03/2020
JOB NO.	3541.01
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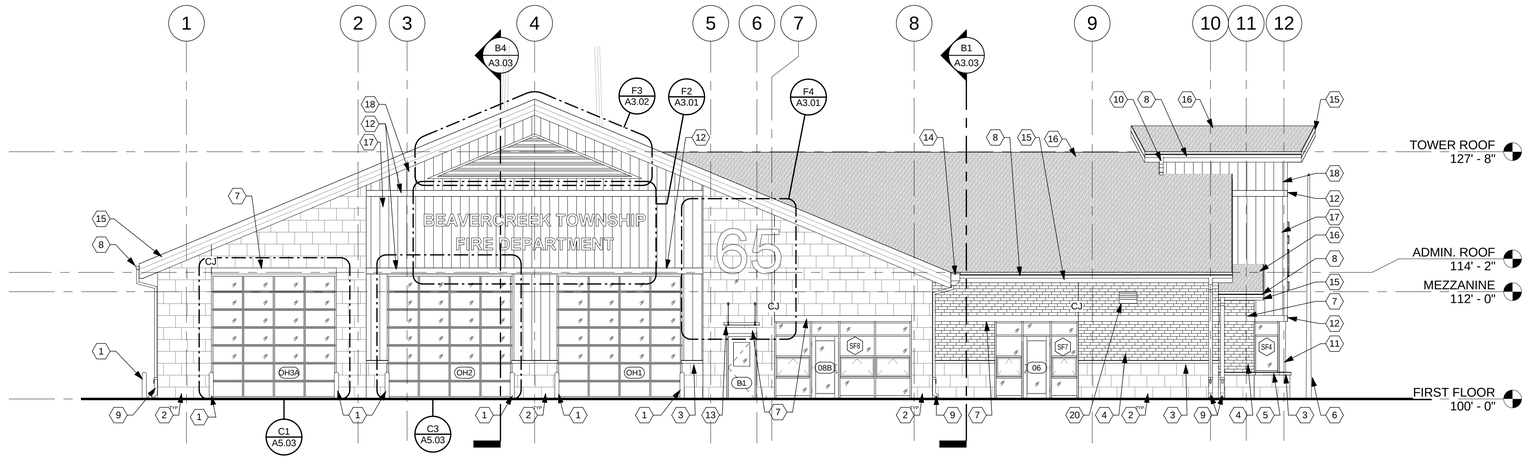
CHECKED	TJB
CAD	-

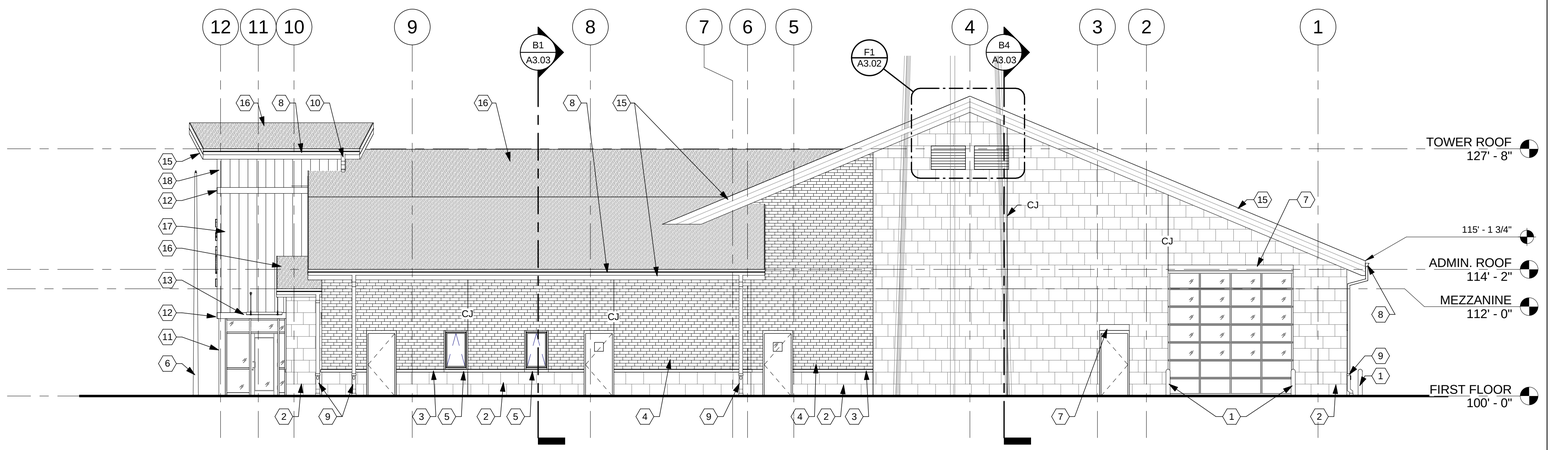
TITLE
EXTERIOR ELEVATIONS

SHEET NO.
A3.01

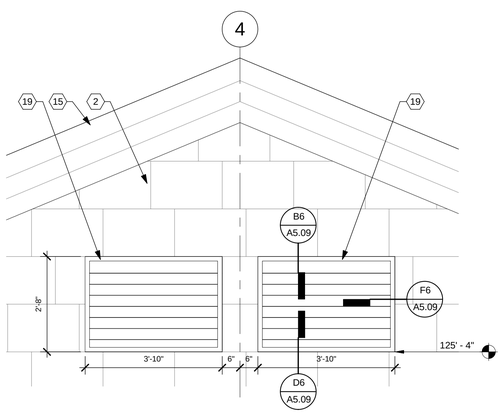
8/12/2020 4:55:24 PM



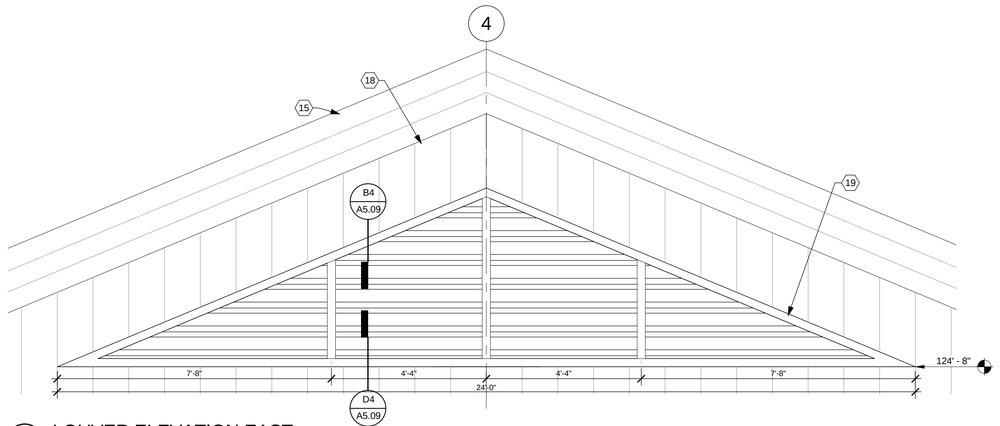
C2 EAST ELEVATION
1/8" = 1'-0"



E2 WEST ELEVATION
1/8" = 1'-0"



F1 LOUVER ELEVATION WEST
1/2" = 1'-0"



F3 LOUVER ELEVATION EAST
1/2" = 1'-0"

CONSTRUCTION NOTES

⟨00⟩ INDICATES CONSTRUCTION NOTE.

1 METAL PIPE BOLLARD (TYP) AT ALL OVERHEAD DOORS AND WHERE NOTED. REFER TO SHEET A5.04 FOR DETAILS.

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11 BREAK METAL TO MATCH STOREFRONT MULLIONS.

12 8" PHENOLIC PLANKING SIDING (PPS3) INSTALLED HORIZONTALLY. REFER TO SHEET A5.11 FOR TYPICAL DETAILS.

13 GLASS AWNING CENTERED ABOVE DOOR OPENING. REFER TO SHEET A5.09 FOR DETAILS.

14 PREFINISHED GALVALUME CONDUCTOR HEAD. G.C. TO ENSURE THAT FRAMING BEHIND/ADJACENT TO CONDUCTOR HEAD IS CAPABLE OF SUPPORTING WEIGHT OF UP TO 30 GALLONS OF WATER.

15 PREFINISHED GALVALUME FASCIA. COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

16 ASPHALT SHINGLES OVER 30# FELT.

17 PHENOLIC PLANK SIDING (PPS1). REFER TO SHEET A5.11 FOR TYPICAL DETAILS.

18 PHENOLIC PLANK SIDING (PPS2). REFER TO SHEET A5.11 FOR TYPICAL DETAILS.

19 PREFINISHED ALUMINUM LOUVERS. COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS. REFER TO DETAILS. COORDINATE WITH MECHANICAL AND STRUCTURAL DRAWINGS.

20 16" x 24" EXHAUST LOUVER. COORDINATE LOCATION WITH HVAC DRAWINGS AND MASONRY COURSING.

GENERAL NOTES

A. ALL MASONRY VENEER IS 1/3 RUNNING BOND.

B. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.

C. "CJ" = MASONRY CONTROL JOINT

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Timothy J. Bernert, License #12305
Expiration Date 12/31/2021

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Fire Station No. 65
1777 Trebein Road, Beavercreek Township, Ohio 45385

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DATE	04/03/2020
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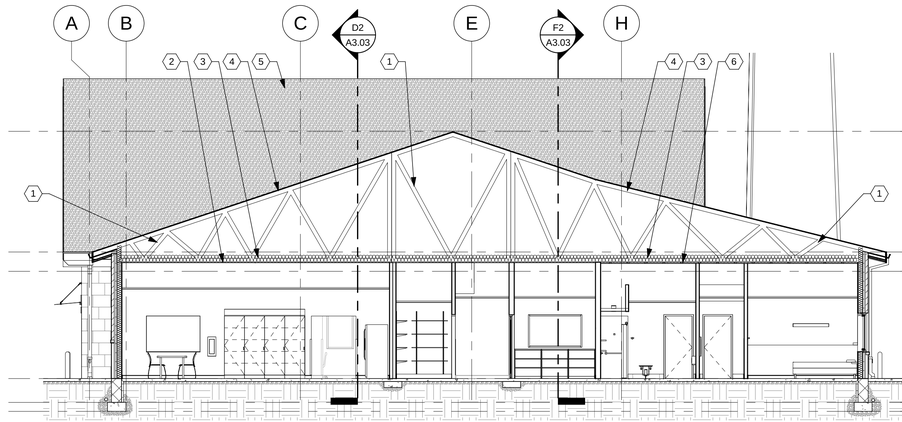
CAD	-

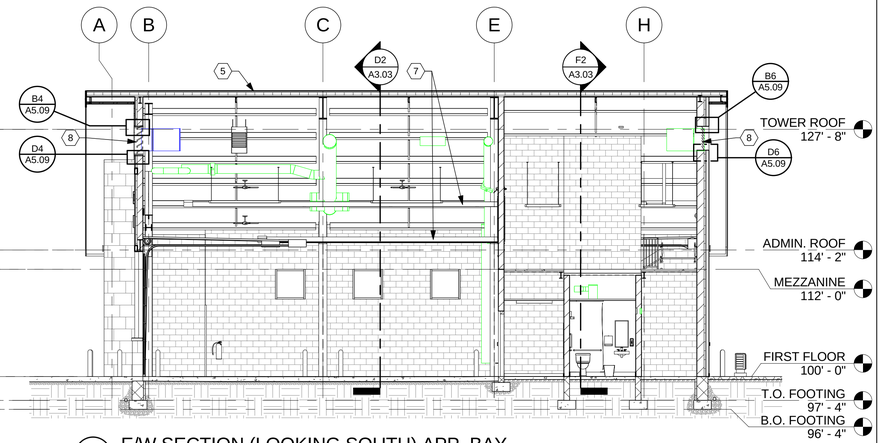
TITLE
EXTERIOR ELEVATIONS

SHEET NO.
A3.02

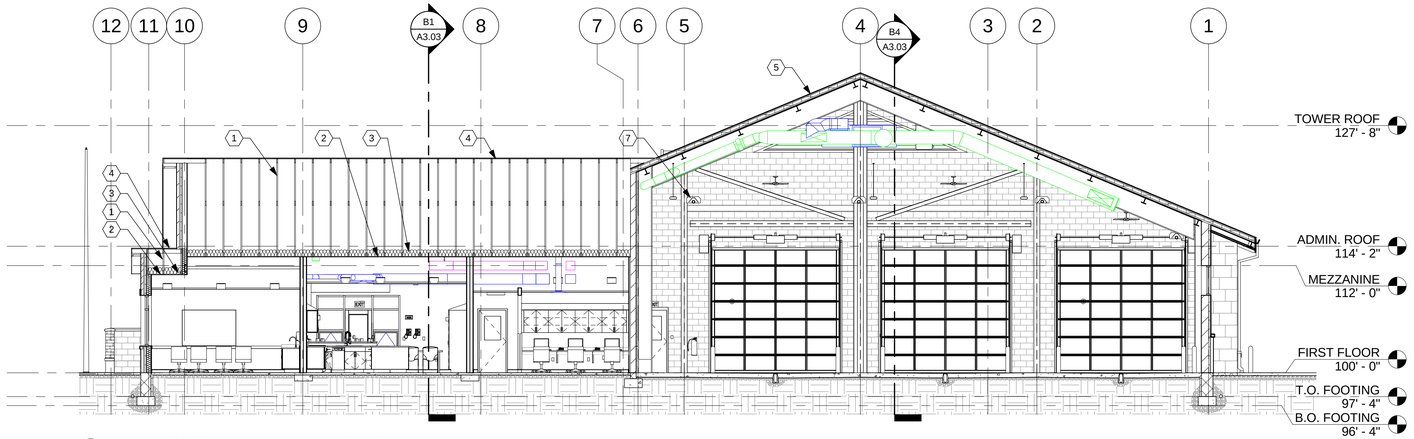
4/7/2020 9:53:43 AM



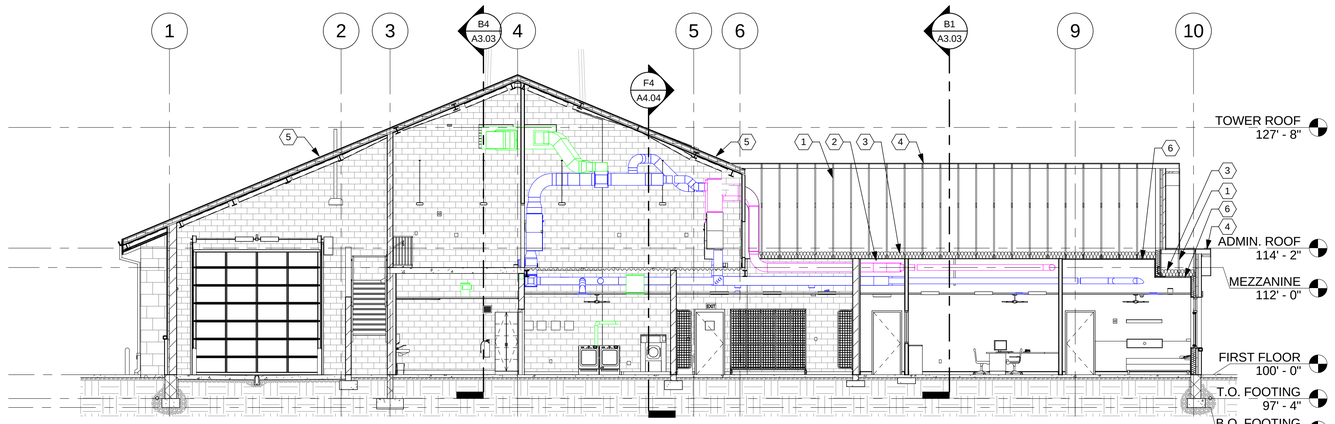
B1 E/W SECTION (LOOKING SOUTH) ADMIN.
1/8" = 1'-0"



B4 E/W SECTION (LOOKING SOUTH) APP. BAY
1/8" = 1'-0"



D2 N/S SECTION (LOOKING EAST)
1/8" = 1'-0"



F2 N/S SECTION (LOOKING WEST)
1/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1. FRT WOOD TRUSS TYPICAL.
2. 5/8" TYPE "X" GYPSUM WALL BOARD ATTACHED TO BOTTOM OF TRUSSES.
3. LOOSE FILL GLASS FIBER INSULATION (R38) ALONG BOTTOM CHORD OF TRUSSES.
4. ASPHALT SHINGLES OVER 30# FELT ON APA RATED SHEATHING. REFER TO STRUCTURAL DRAWINGS FOR SHEATHING DETAILS.
5. ASPHALT SHINGLES OVER 30# FELT ON INSULATED NAIL BASE.
6. CEILING TYPE F6. U.L. P522 RATED CEILING REQUIRED IN R-2 SLEEPING AREAS. REFER TO CEILING PLAN FOR EXTENTS.
7. RADIANT HEATER. TYP. BETWEEN EACH BAY. REFER TO MECHANICAL DRAWINGS FOR DETAILS.
8. PREFINISHED ALUMINUM LOUVERS. COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS. REFER TO DETAILS. COORDINATE WITH MECHANICAL AND STRUCTURAL DRAWINGS.

GENERAL NOTES

A. ALL MASONRY VENEER IS 1/3 RUNNING BOND.

B. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.

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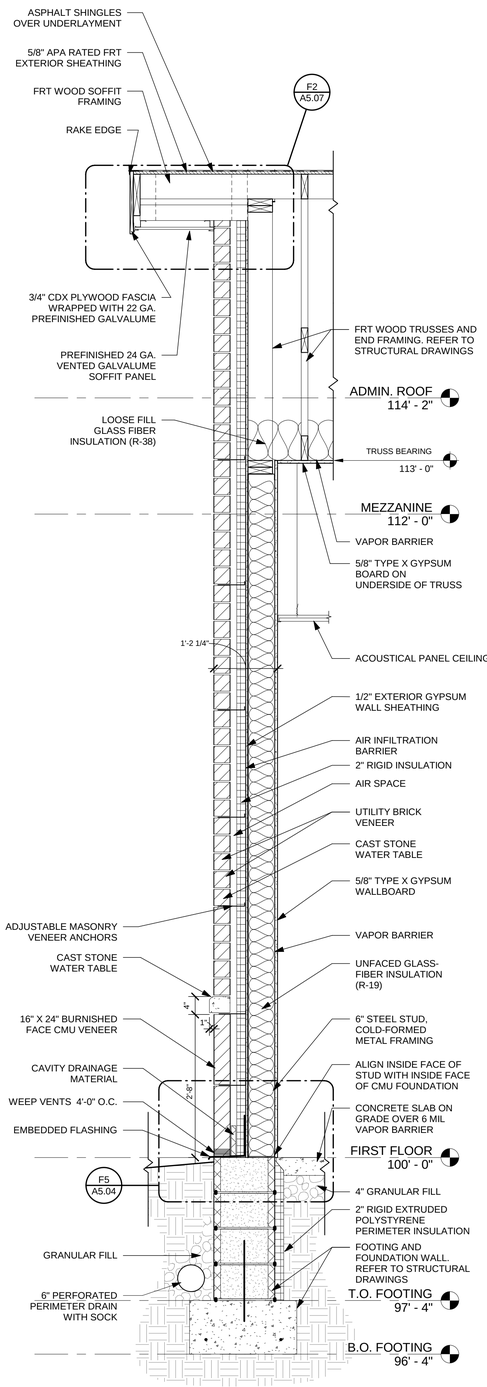
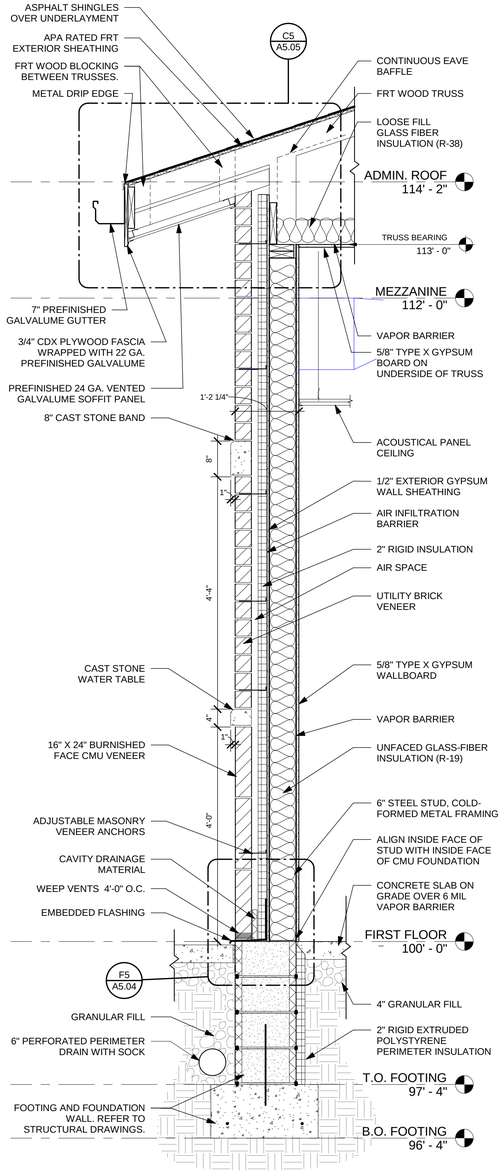
TITLE
BUILDING SECTIONS

SHEET NO.
A3.03

4/7/2020 9:53:08 AM



F1 WALL SECTION
3/4" = 1'-0"



F3 WALL SECTION
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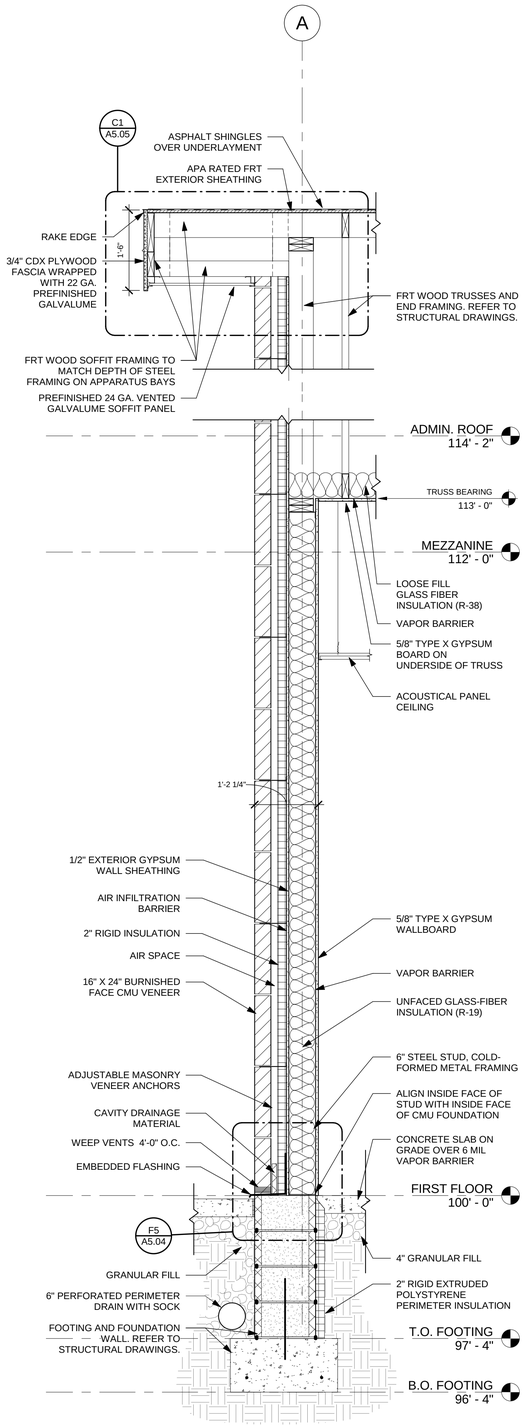

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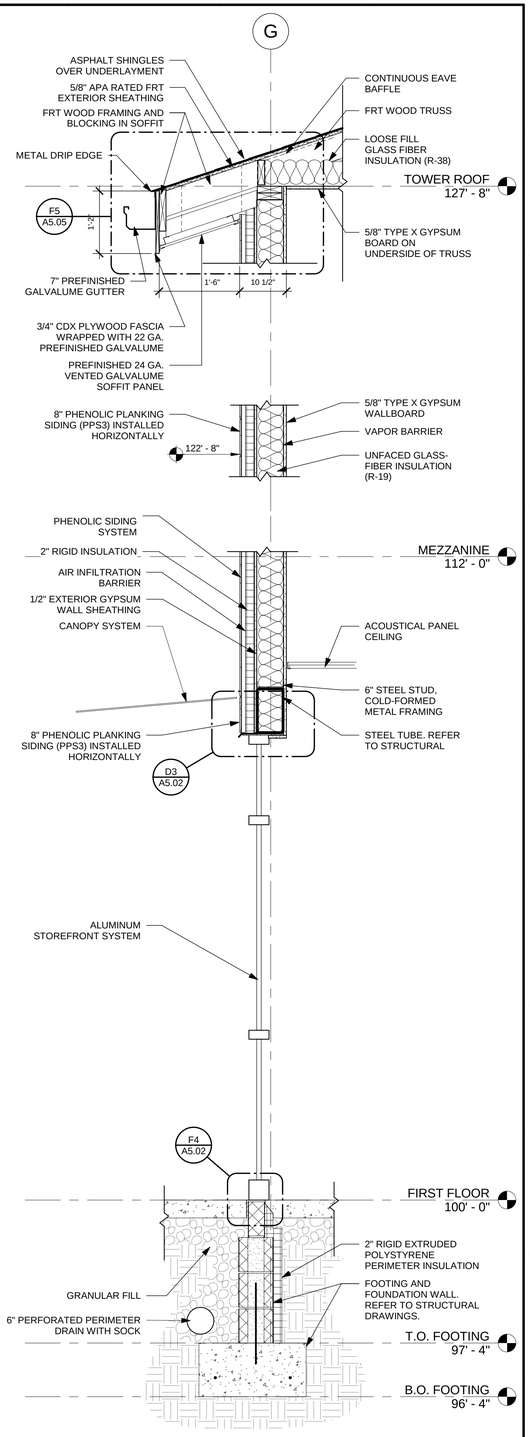

F6 WALL SECTION
3/4" = 1'-0"

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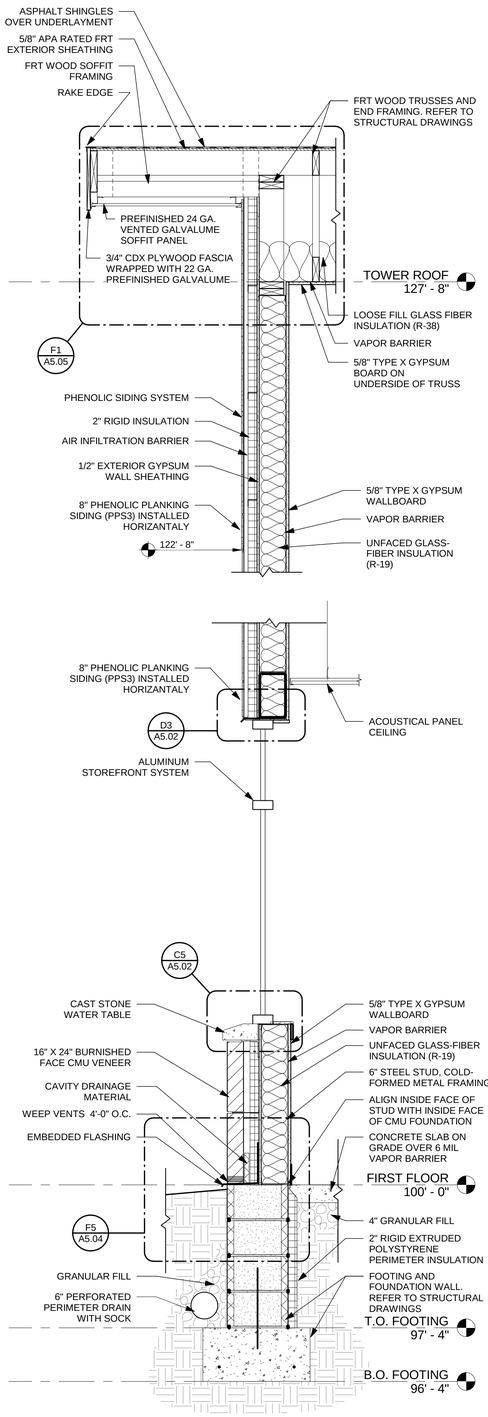
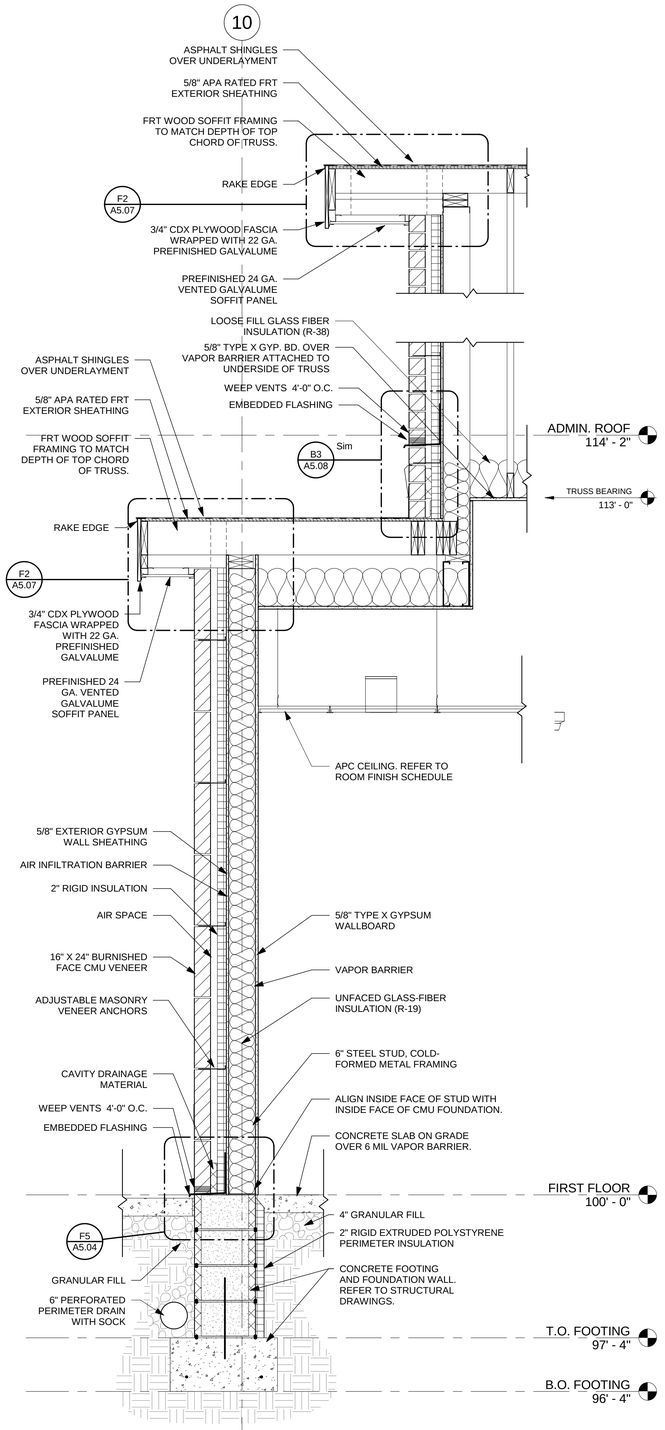
TITLE
WALL SECTIONS

SHEET NO.
A4.01

4/7/2020 9:54:01 AM



F1 WALL SECTION
3/4" = 1'-0"



F3 WALL SECTION
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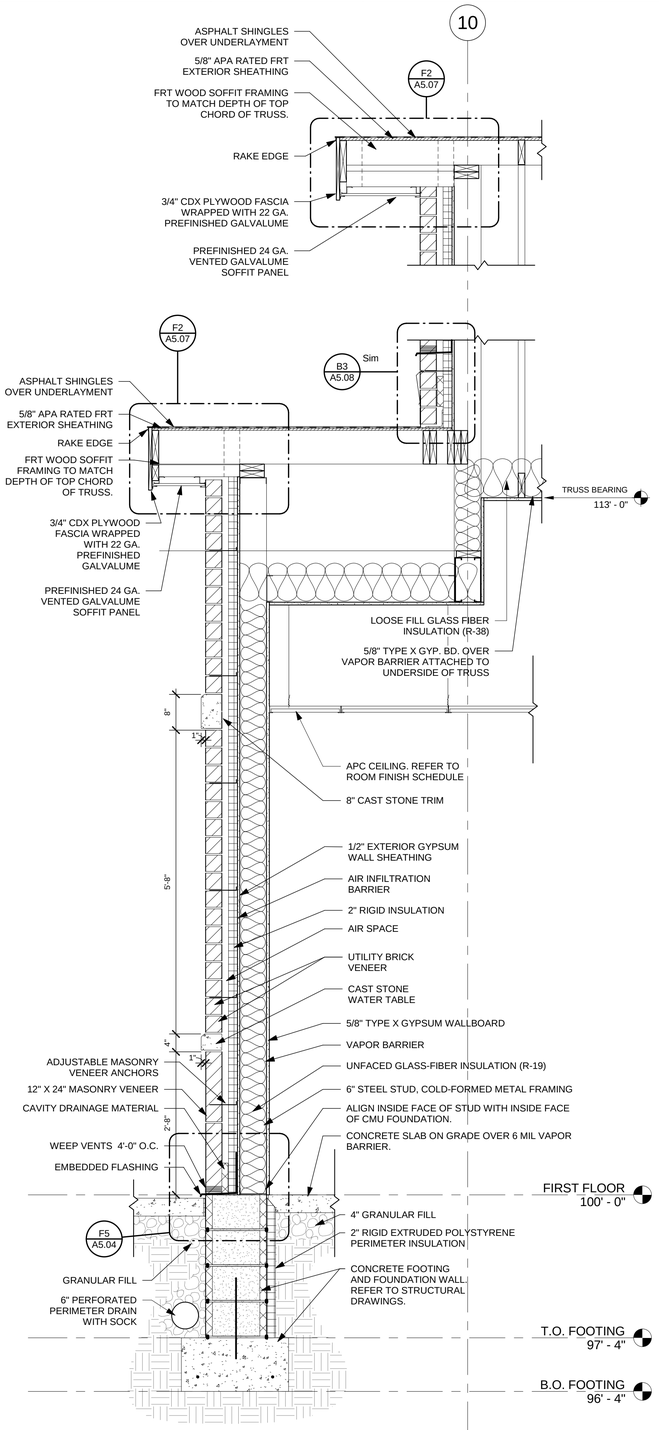

F6 WALL SECTION
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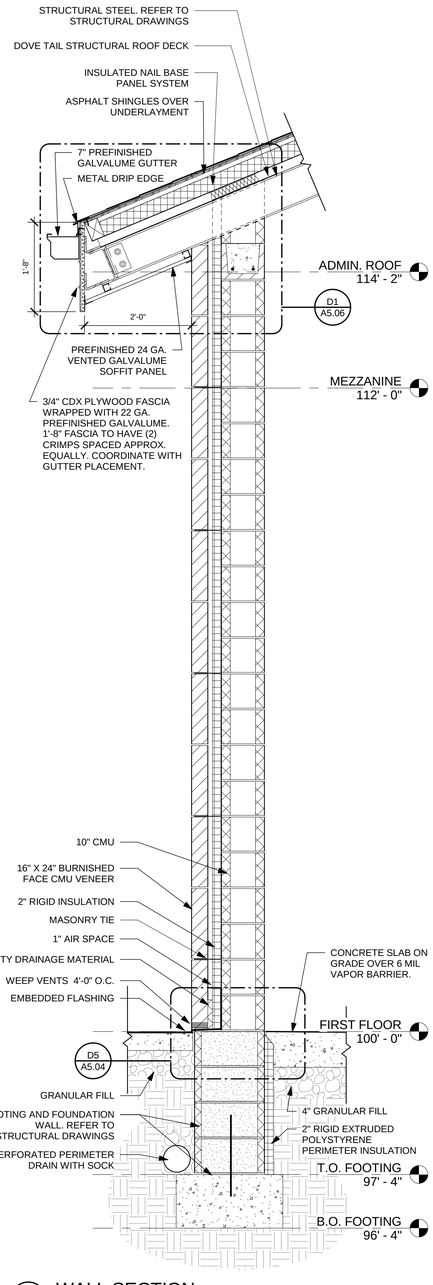
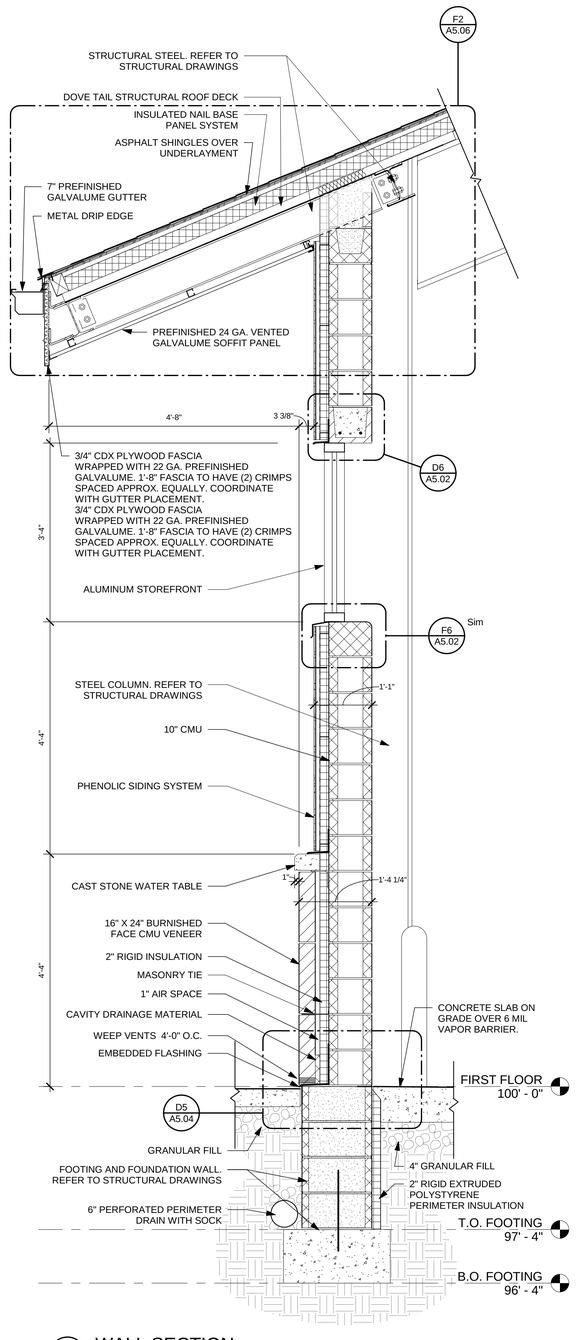
TITLE
WALL SECTIONS

SHEET NO.
A4.02

4/7/2020 9:54:04 AM



F1 WALL SECTION
3/4" = 1'-0"



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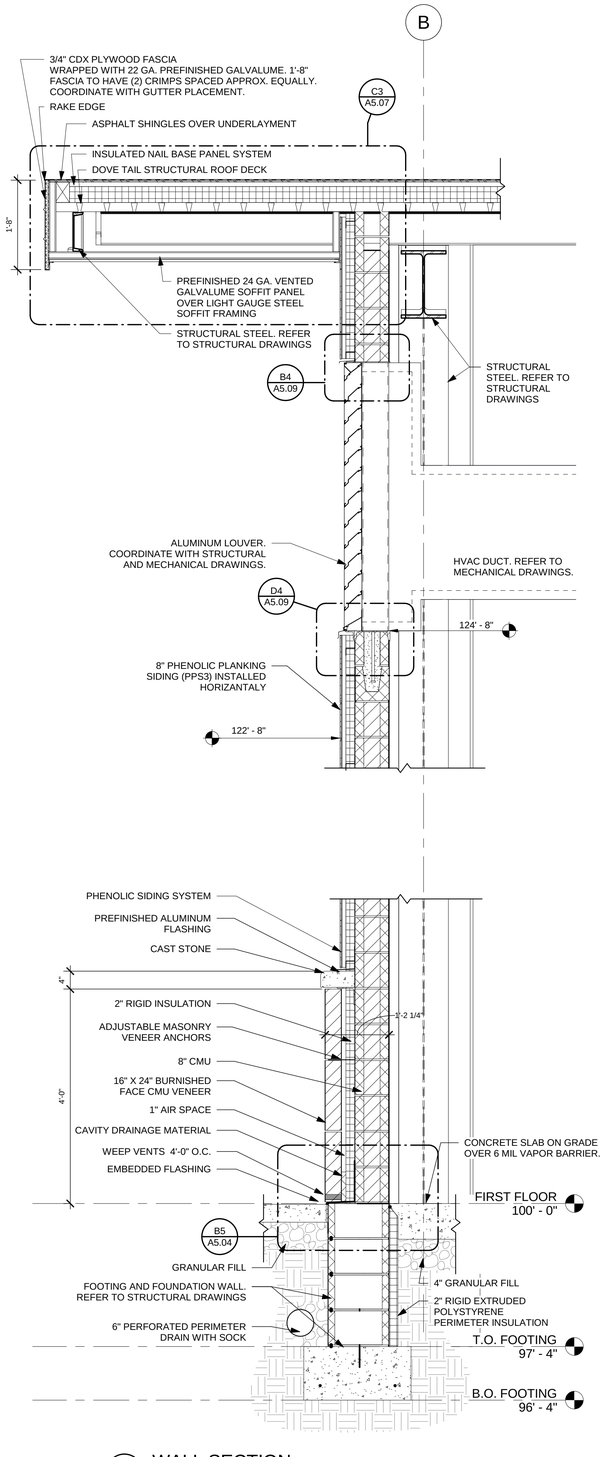

F6 WALL SECTION
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TITLE
WALL SECTIONS

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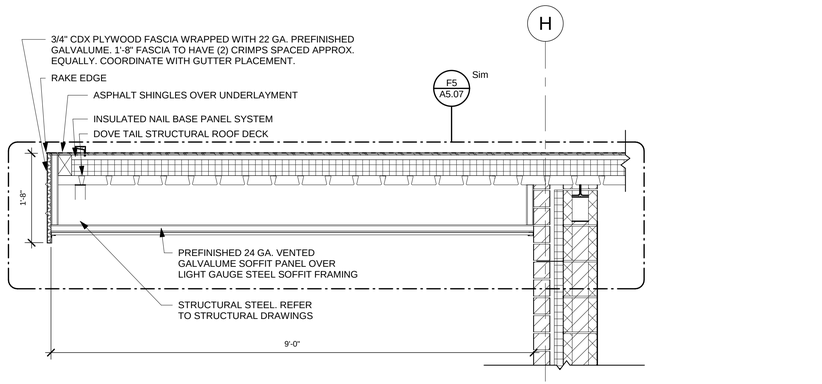
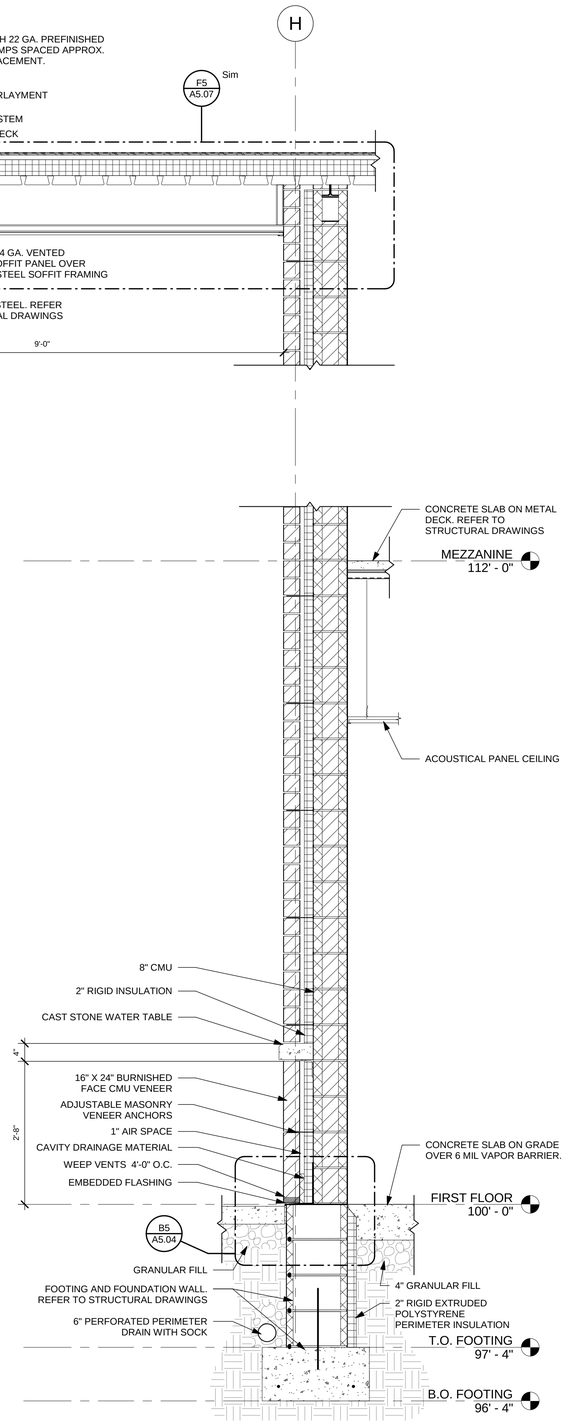
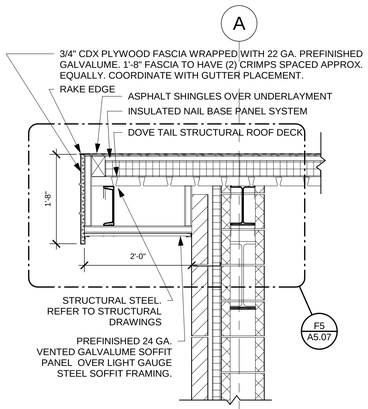
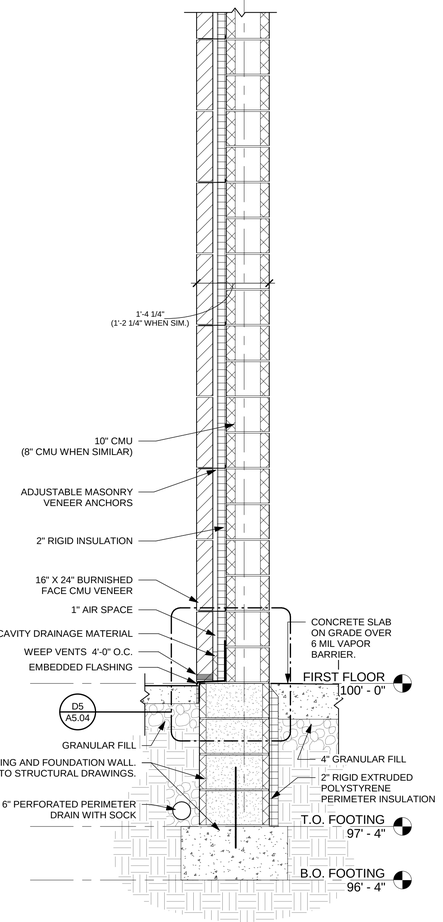
4/7/2020 9:54:06 AM





F4 WALL SECTION
3/4" = 1'-0"





F6 WALL SECTION
3/4" = 1'-0"

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Timothy J. Bernert, License #12305
Expiration Date 12/31/2021

Beavercreek Township
Fire Station No. 65
1777 Trebein Road, Beavercreek Township, Ohio 45385

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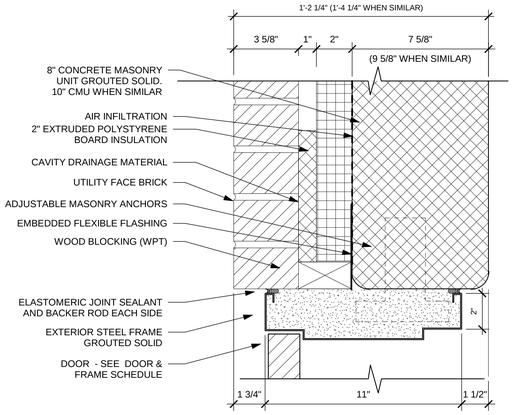
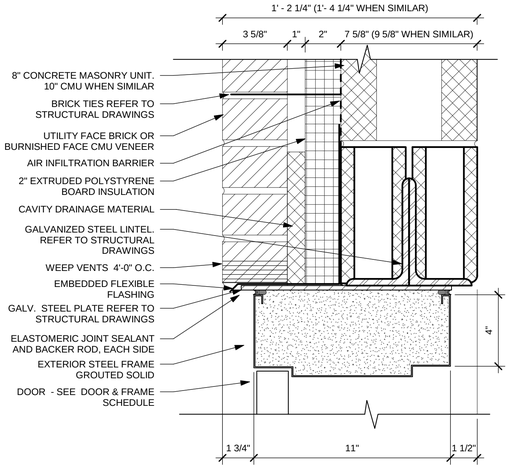
TITLE
WALL SECTIONS

SHEET NO.
A4.04

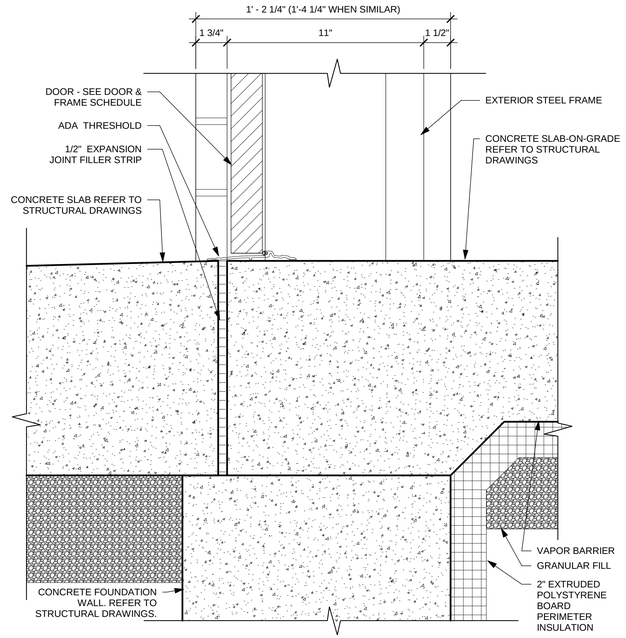
4/7/2020 9:54:09 AM



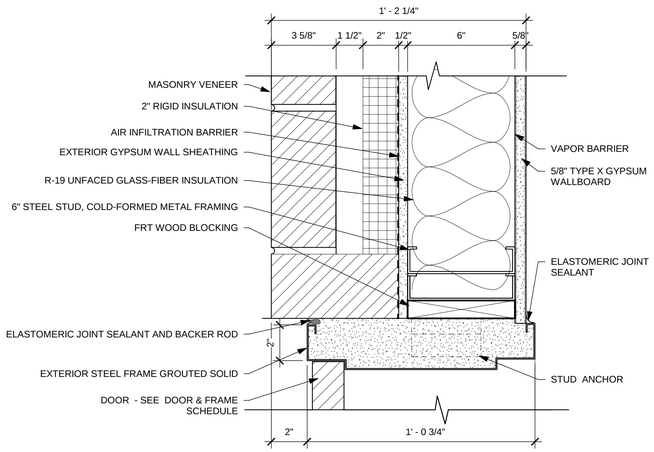
C2 DOOR JAMB DETAIL
3" = 1'-0"



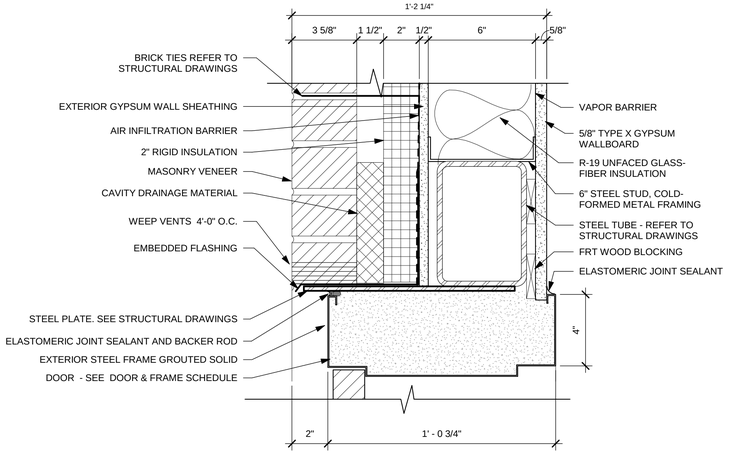
C4 DOOR HEAD DETAIL
3" = 1'-0"



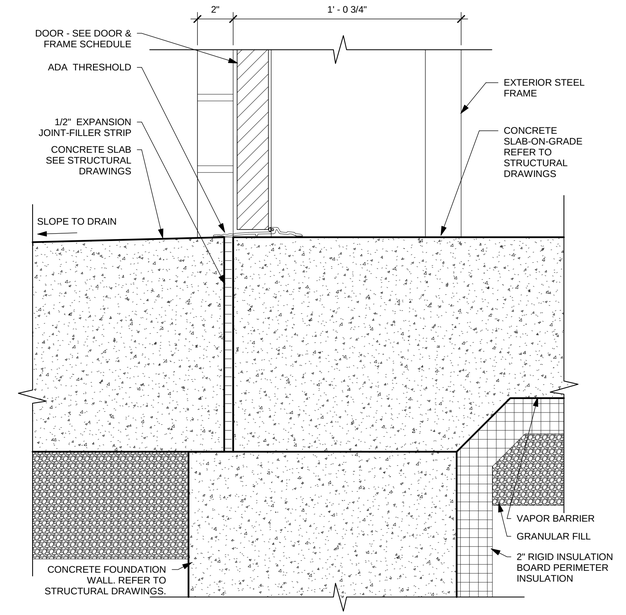
C5 DOOR SILL DETAIL
3" = 1'-0"



F1 DOOR JAMB DETAIL
3" = 1'-0"



F4 DOOR HEAD DETAIL
3" = 1'-0"



F5 DOOR SILL DETAIL
3" = 1'-0"

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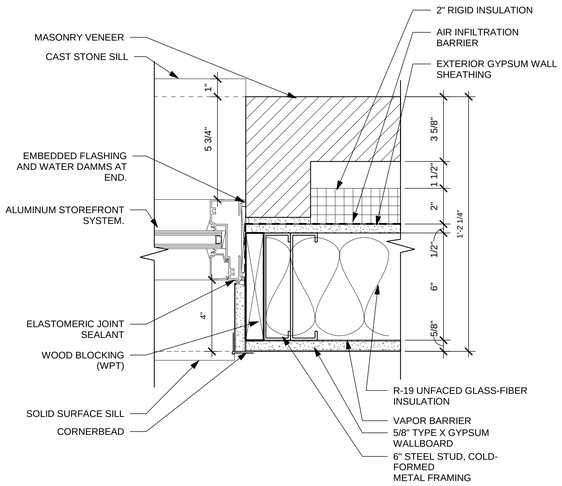
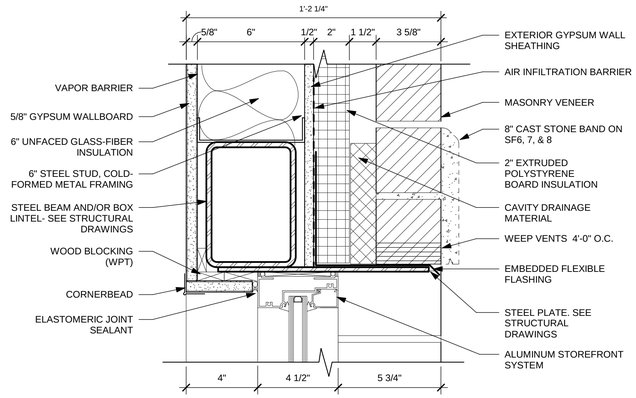
EXTERIOR DETAILS - DOORS

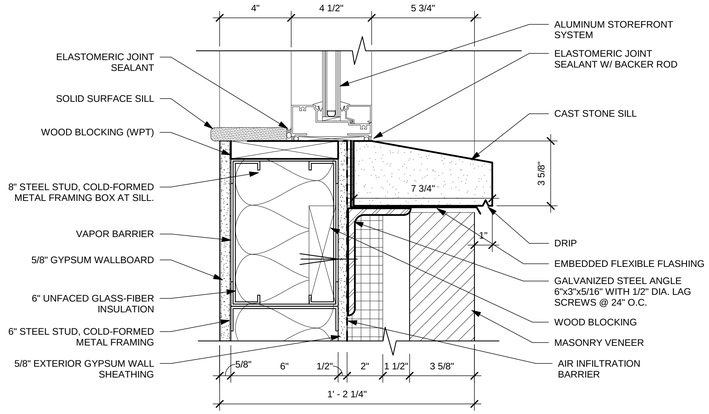
SHEET NO.
A5.01



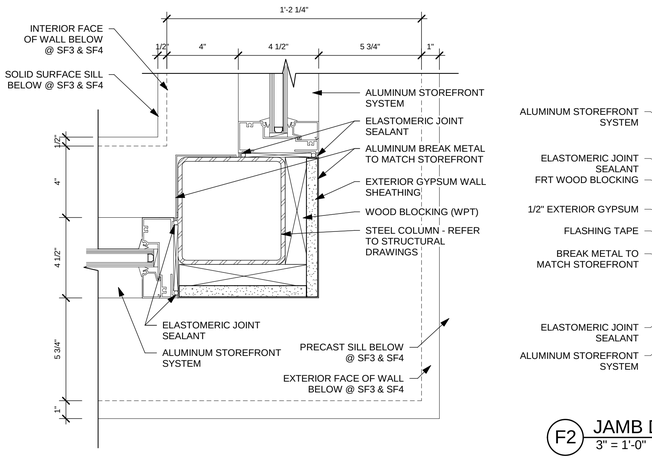
C1 JAMB DETAIL - MASONRY VENEER
3" = 1'-0"



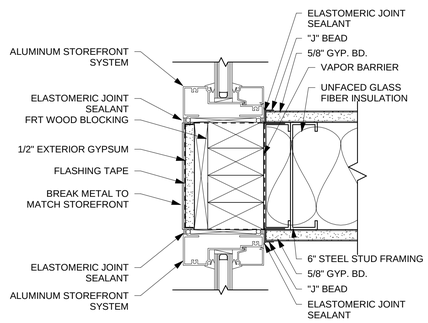
C3 HEAD DETAIL - MASONRY VENEER
3" = 1'-0"



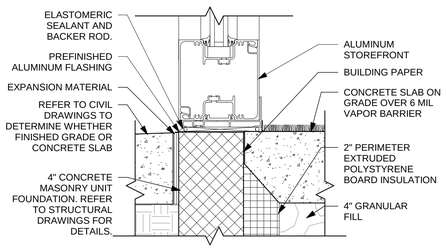
C5 SILL DETAIL - MASONRY VENEER
3" = 1'-0"



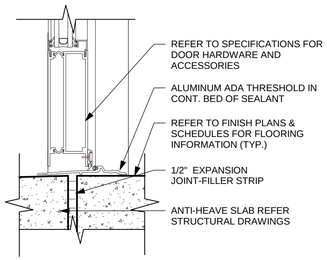
F1 JAMB/CORNER DETAIL
3" = 1'-0"



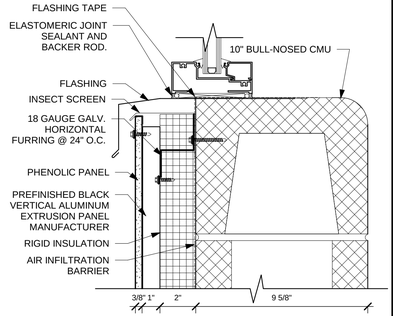
F2 JAMB DETAIL - STOREFRONT
3" = 1'-0"



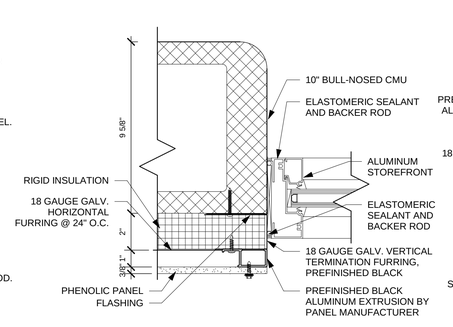
F4 SILL DETAIL - STOREFRONT
3" = 1'-0"



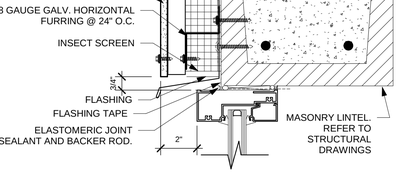
F5 ALUMINUM DOOR SILL
3" = 1'-0"



F6 SILL DETAIL - PHENOLIC SIDING
3" = 1'-0"



D5 JAMB DETAIL - PHENOLIC SIDING
3" = 1'-0"



D6 HEAD DETAIL - PHENOLIC SIDING
3" = 1'-0"

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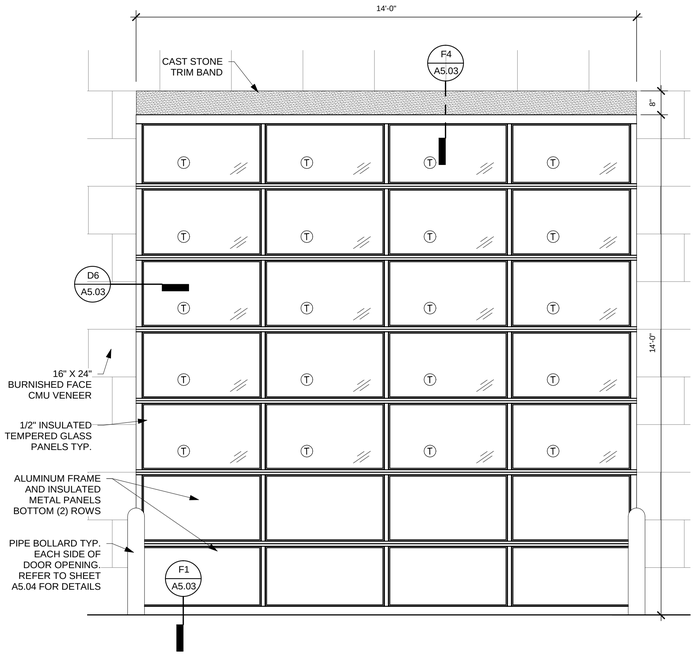
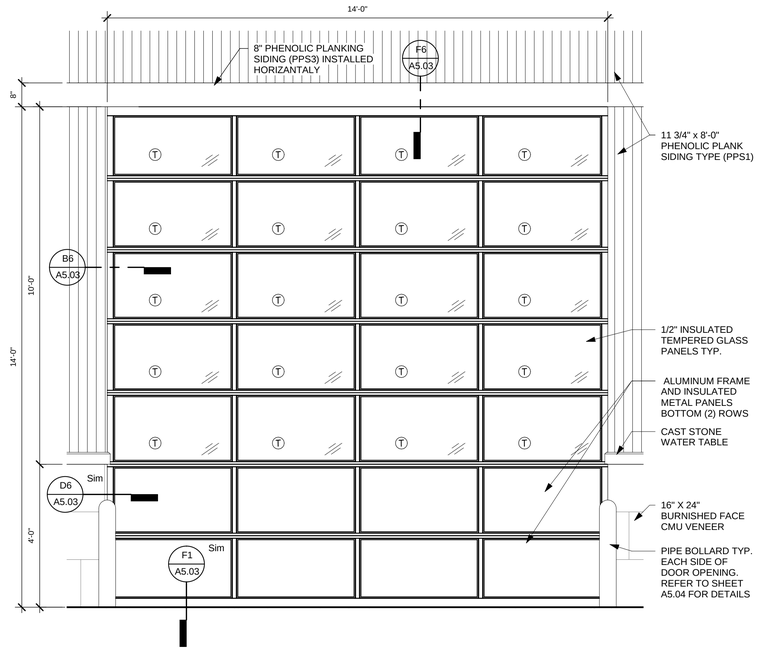
TITLE
EXTERIOR DETAILS - STOREFRONT

SHEET NO.
A5.02

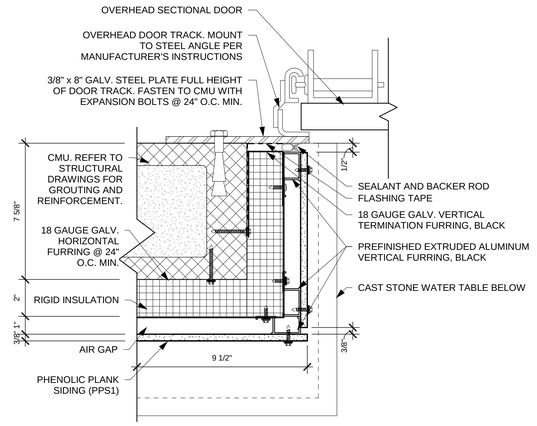
4/7/2020 9:54:18 AM



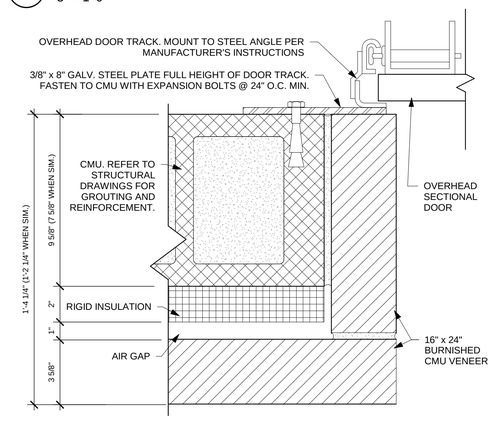
C1 OVERHEAD DOOR ELEVATION (OH3A & OH3B)
1/2" = 1'-0"



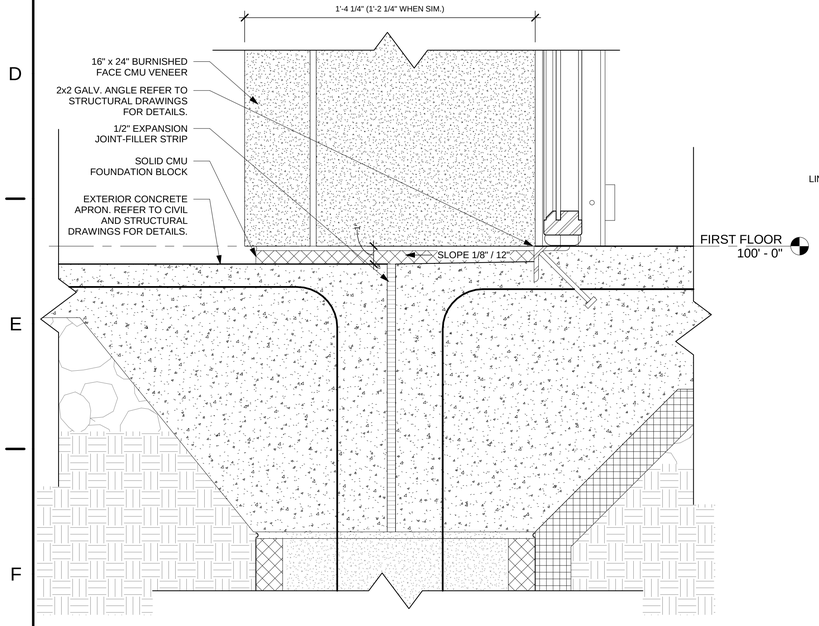
C3 OVERHEAD DOOR ELEVATION (OH1 & OH2)
1/2" = 1'-0"



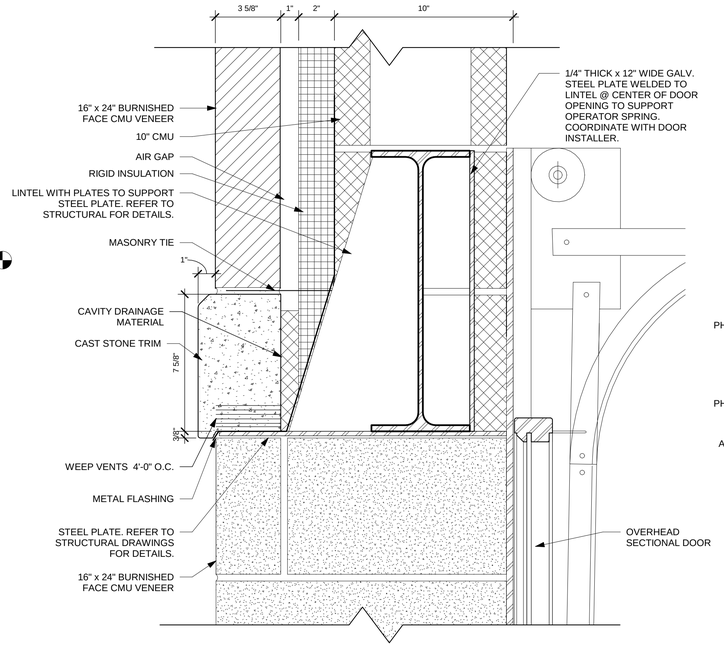
B6 JAMB DETAIL - OVERHEAD DOOR
3" = 1'-0"



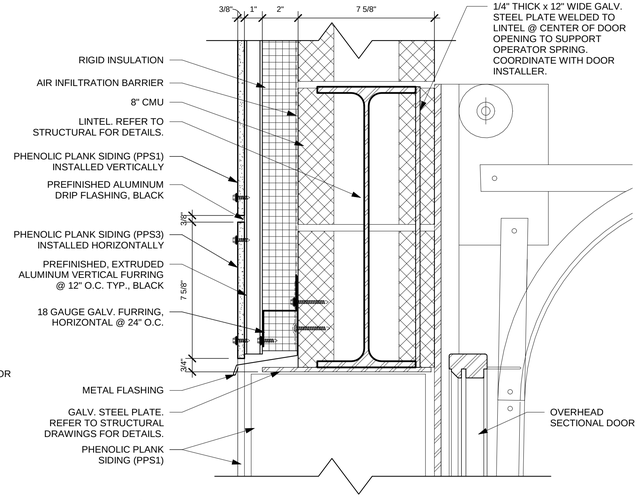
D6 JAMB DETAIL - OVERHEAD DOOR
3" = 1'-0"



F1 SILL DETAIL - OVERHEAD DOOR
3" = 1'-0"



F4 HEAD DETAIL - OVERHEAD DOOR
3" = 1'-0"



F6 HEAD DETAIL - OVERHEAD DOOR
3" = 1'-0"

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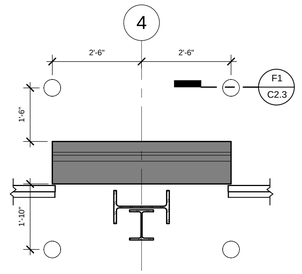
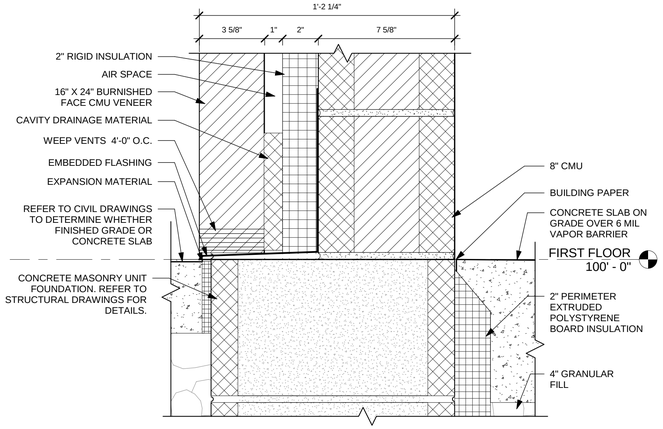
TITLE
EXTERIOR DETAILS - OVERHEAD DOORS

SHEET NO.
A5.03

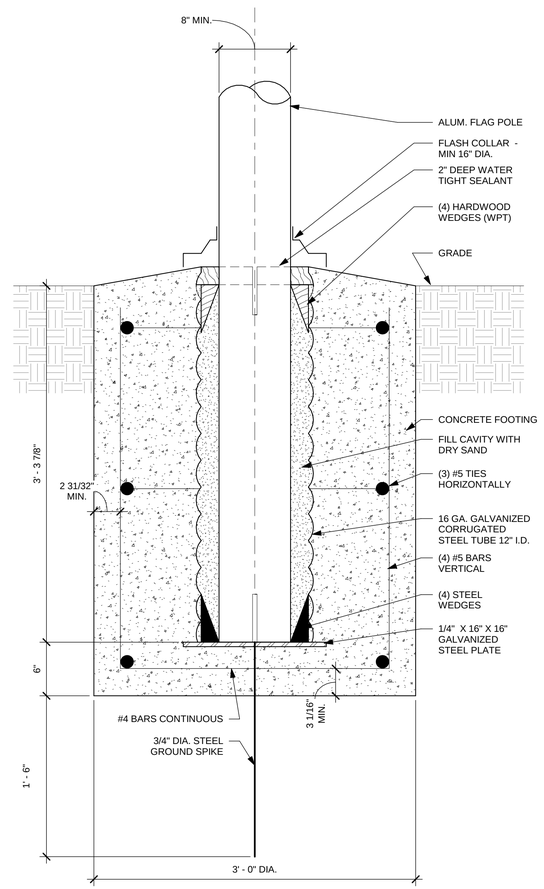
4/7/2020 9:54:22 AM



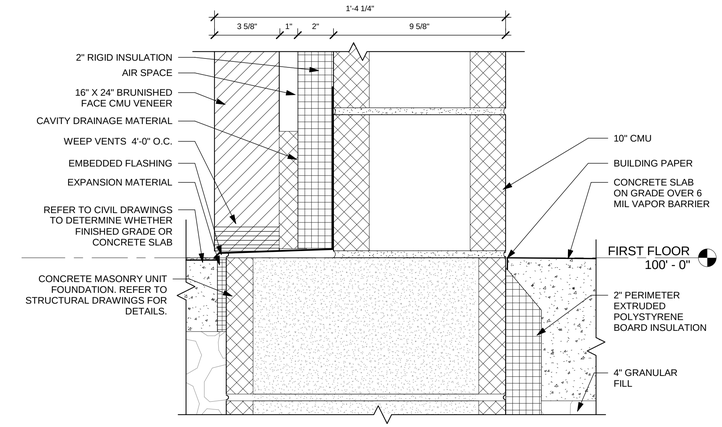
B4 TYP. BOLLARD LOCATIONS
1/2" = 1'-0"



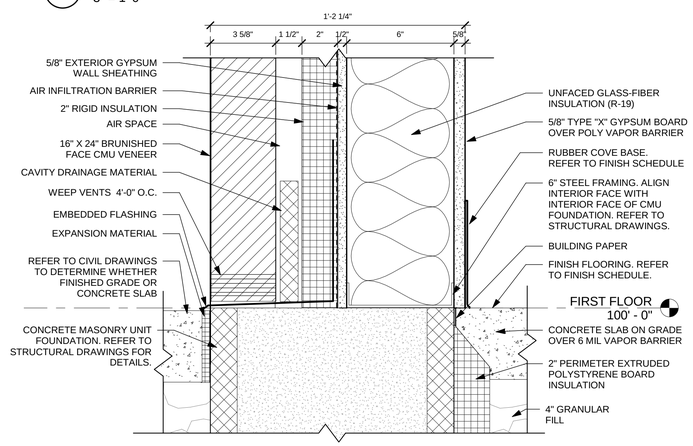
B5 FOUNDATION DETAIL
3" = 1'-0"



F3 FLAG POLE FOUNDATION DETAIL
1 1/2" = 1'-0"



D5 FOUNDATION DETAIL
3" = 1'-0"



F5 FOUNDATION DETAIL
3" = 1'-0"

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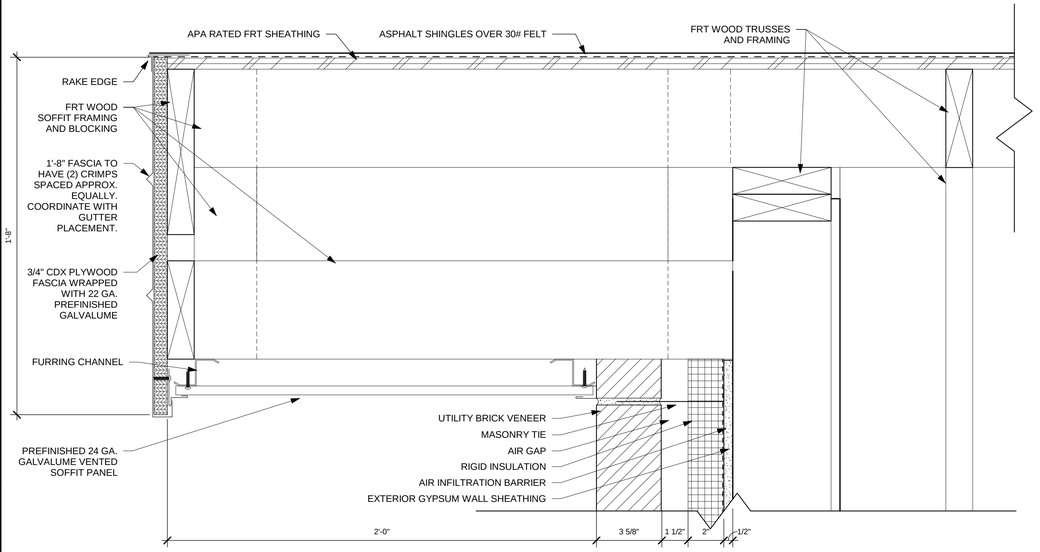
TITLE
EXTERIOR DETAILS - FOUNDATIONS

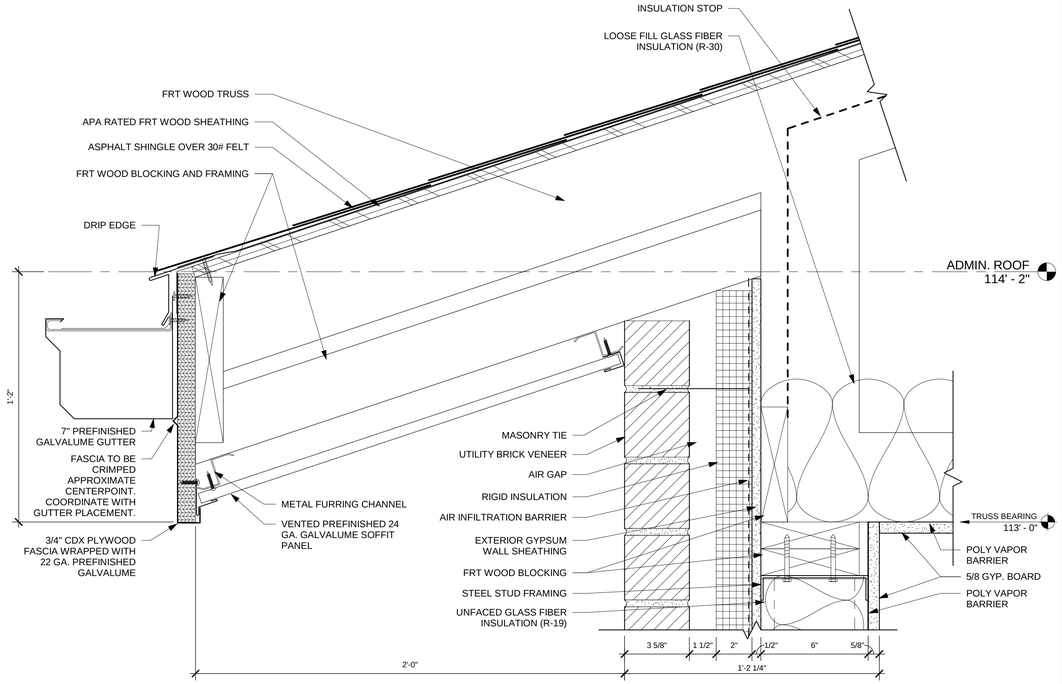
SHEET NO.
A5.04

4/7/2020 9:54:25 AM

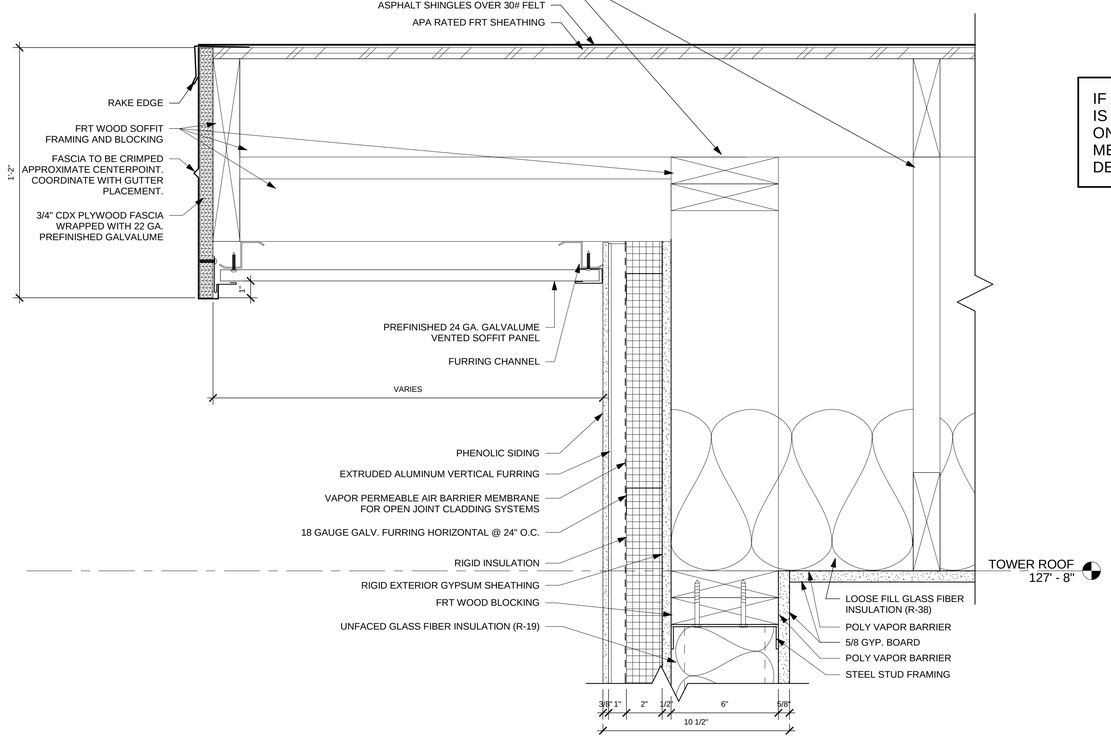


C1 EAVE DETAIL
3" = 1'-0"

ALTERNATE G-1 – METAL ROOF ALTERNATE, REFER TO ALTERNATE DETAIL C1/A5.12

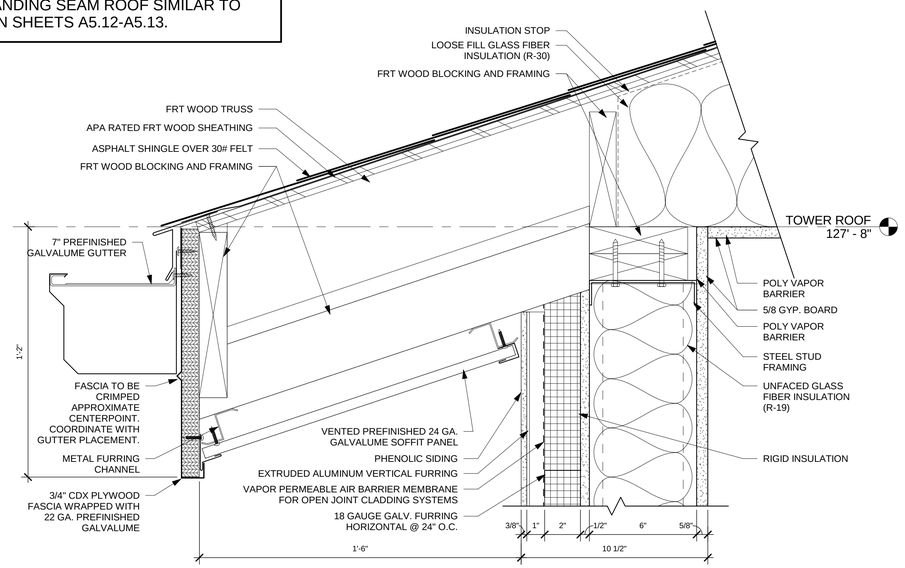


C5 SOFFIT DETAIL
3" = 1'-0"



F1 EAVE DETAIL
3" = 1'-0"

IF ALTERNATE G-1 -METAL ROOF ALTERNATE IS ACCEPTED, ALL REFERENCES TO SHINGLES ON THIS SHEET ARE TO BE REVISED TO METAL STANDING SEAM ROOF SIMILAR TO DETAILS ON SHEETS A5.12-A5.13.



F5 SOFFIT DETAIL
3" = 1'-0"

ALTERNATE G-1 – METAL ROOF ALTERNATE, REFER TO ALTERNATE DETAIL C5/A5.12

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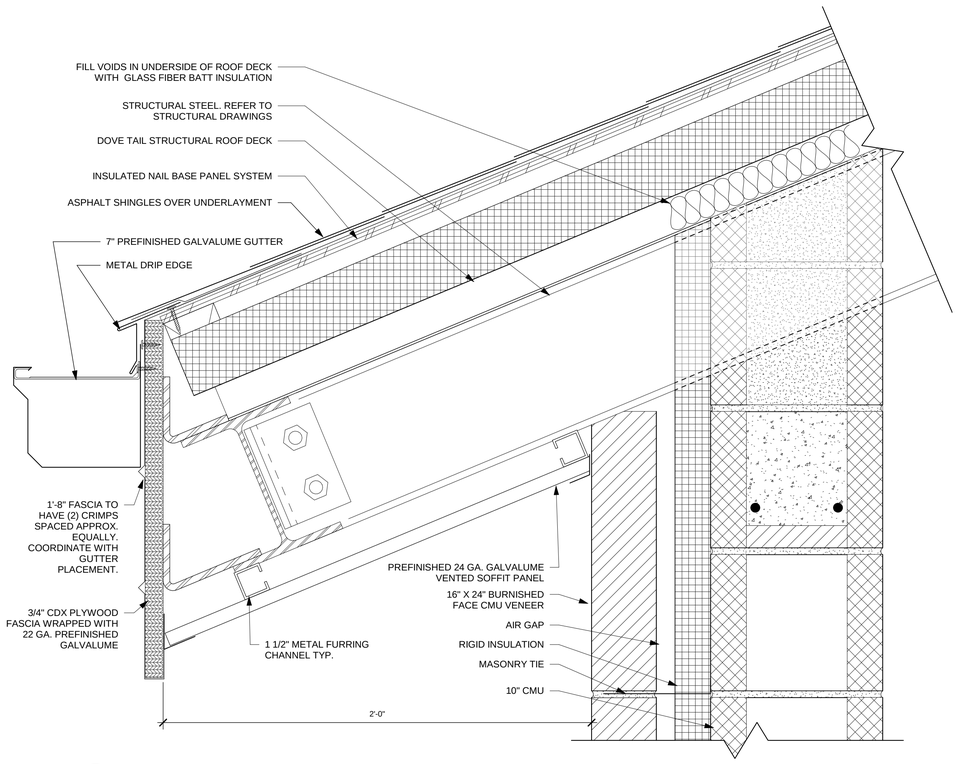
TITLE
EXTERIOR DETAILS - ROOF

SHEET NO.
A5.05

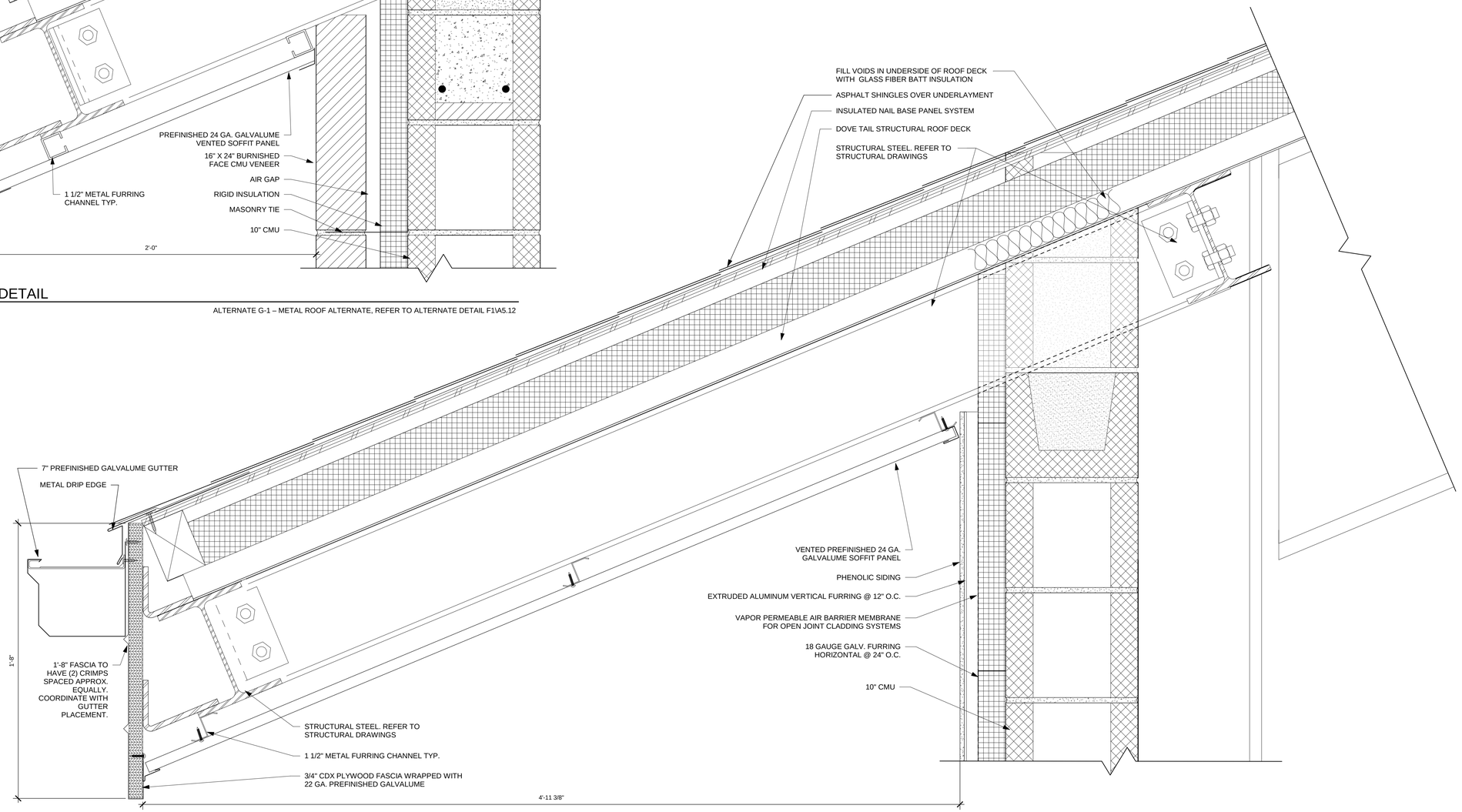
4/7/2020 9:54:29 AM



D1 EAVE DETAIL
3" = 1'-0"

ALTERNATE G-1 – METAL ROOF ALTERNATE, REFER TO ALTERNATE DETAIL F1\A5.12

IF ALTERNATE G-1 -METAL ROOF ALTERNATE IS ACCEPTED, ALL REFERENCES TO SHINGLES ON THIS SHEET ARE TO BE REVISED TO METAL STANDING SEAM ROOF SIMILAR TO DETAILS ON SHEETS A5.12-A5.13.



F2 SOFFIT DETAIL
3" = 1'-0"

4/7/2020 5:54:29 AM

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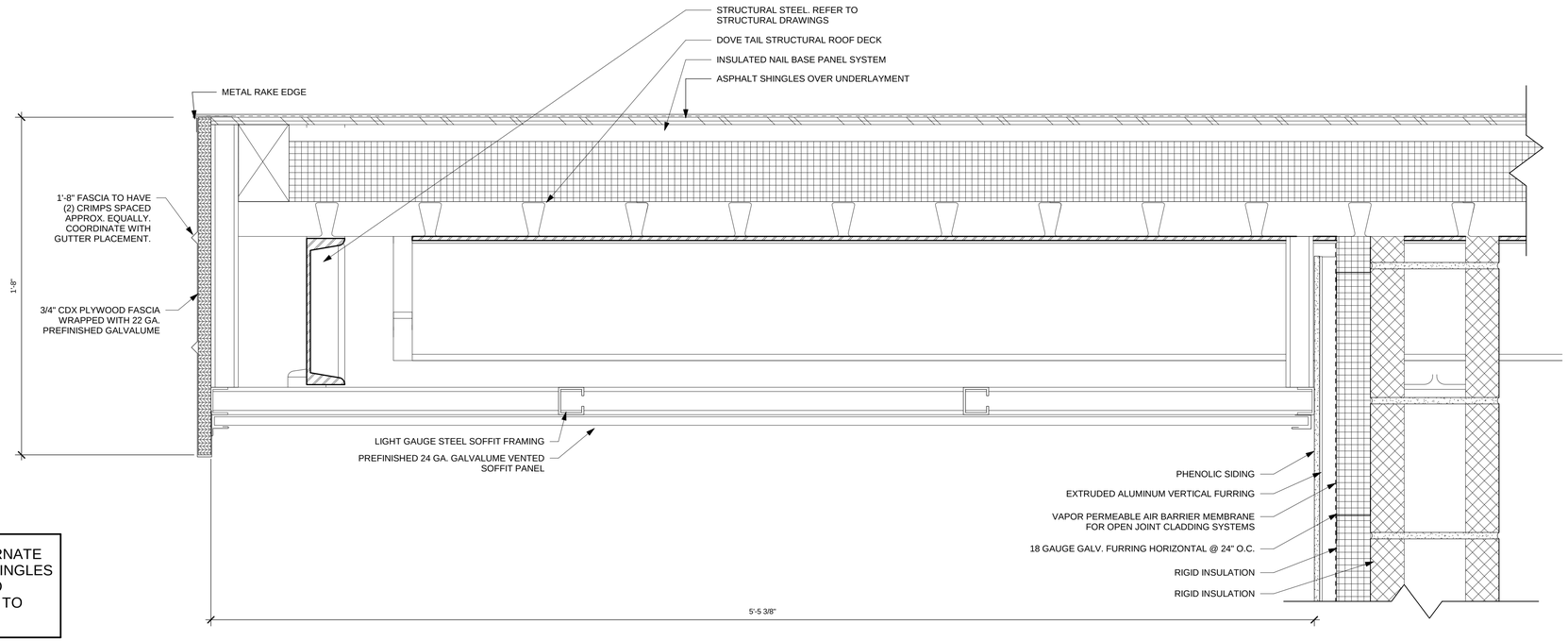
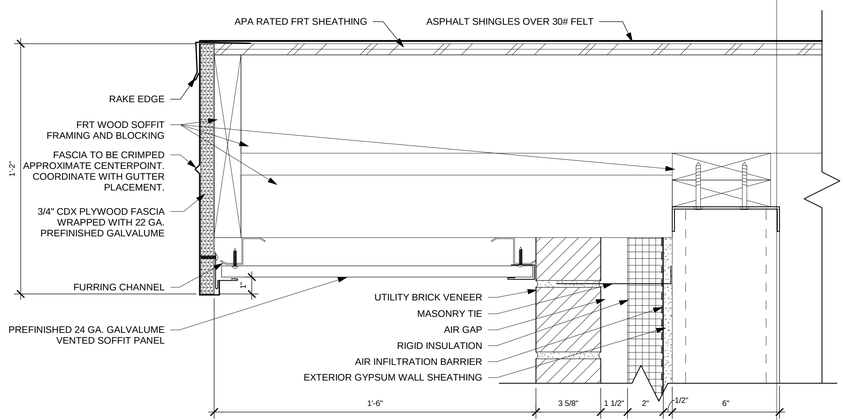
EXTERIOR DETAILS - ROOF

SHEET NO.
A5.06

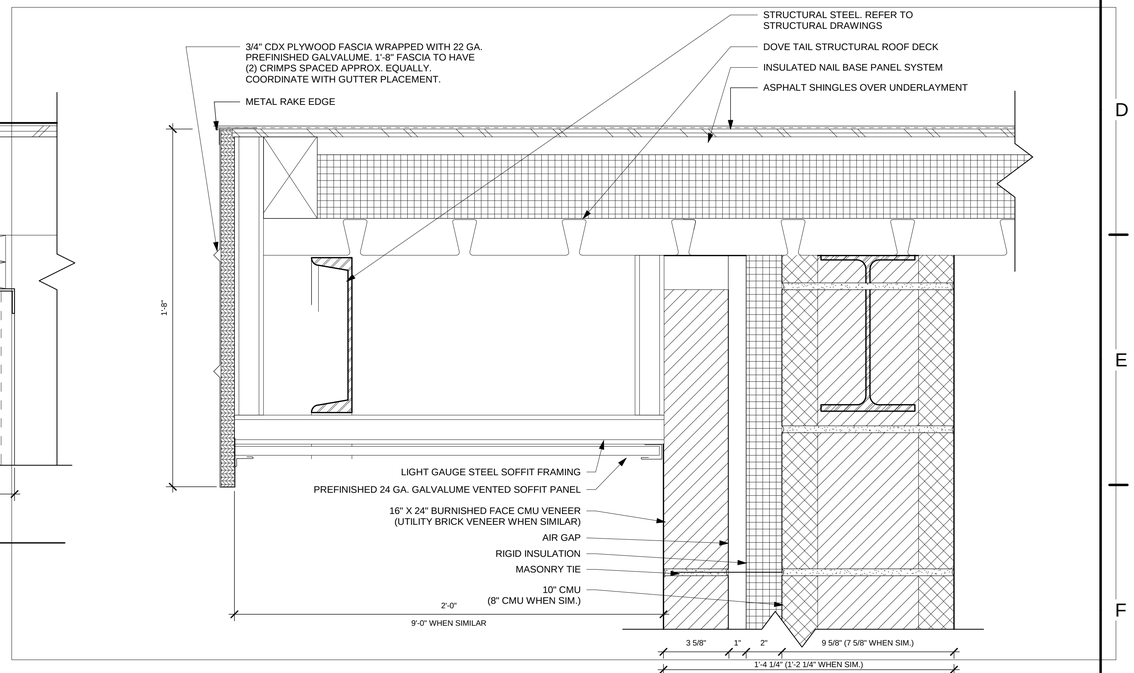


C3 EAVE DETAIL
3" = 1'-0"

IF ALTERNATE G-1 -METAL ROOF ALTERNATE IS ACCEPTED, ALL REFERENCES TO SHINGLES ON THIS SHEET ARE TO BE REVISED TO METAL STANDING SEAM ROOF SIMILAR TO DETAILS ON SHEETS A5.12-A5.13.



F2 EAVE DETAIL
3" = 1'-0"



F5 EAVE DETAIL
3" = 1'-0"

ALTERNATE G-1 – METAL ROOF ALTERNATE, REFER TO ALTERNATE DETAIL F5/A5.12

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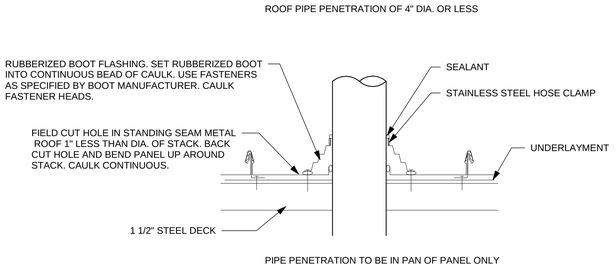
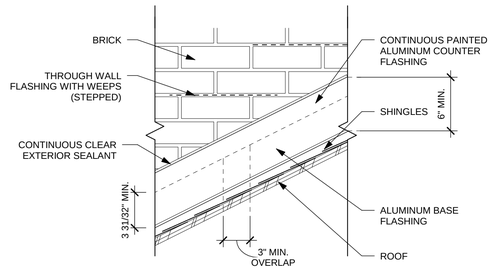
TITLE
EXTERIOR DETAILS - ROOF

SHEET NO.
A5.07

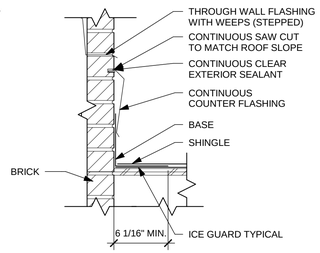
4/7/2020 9:54:39 AM



B1 TYPICAL PIPE PENETRATION
3" = 1'-0"



ELEVATION



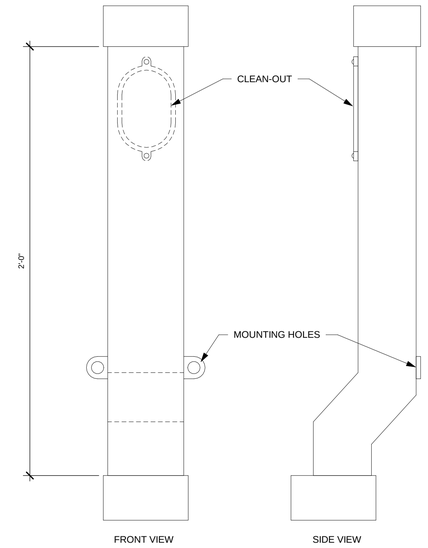
SECTION

NOTE: THE UPPER EDGE OF EACH PIECE OF BASE FLASHING SHOULD EXTEND 2 INCH MINIMUM ABOVE EACH COURSE OF SHINGLES. THE LOWER EDGE SHOULD BE 1/2 INCHES ABOVE THE BUTTS OF THE SHINGLES FORMING THE NEXT COURSE.

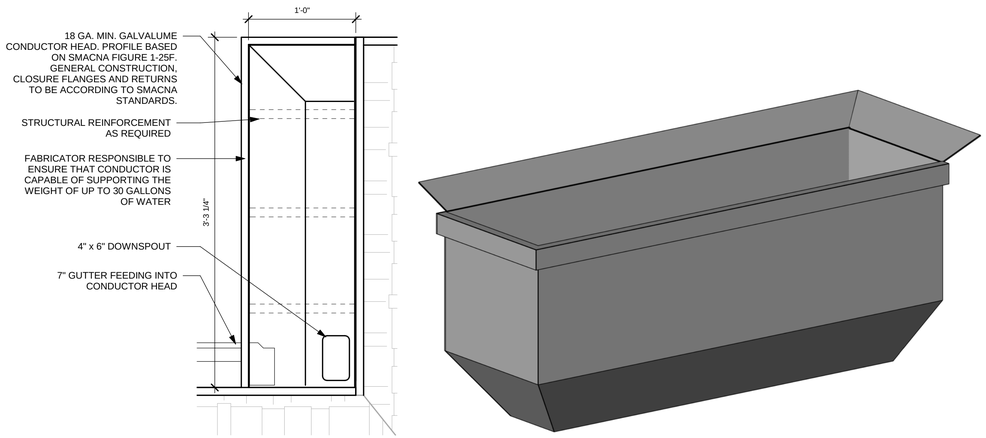
B3 TYPICAL BASE/COUNTER FLASHING DETAIL
1 1/2" = 1'-0"

IF ALTERNATE G-1 -METAL ROOF ALTERNATE IS ACCEPTED, ALL REFERENCES TO SHINGLES ON THIS SHEET ARE TO BE REVISED TO METAL STANDING SEAM ROOF SIMILAR TO DETAILS ON SHEETS A5.12-A5.13.

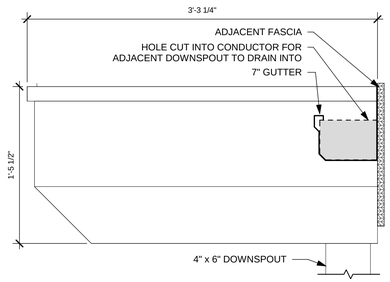
BASIS OF DESIGN: PIEDMONT MANUFACTURING, PIEDMONT PIPE DOWNSPUT - MODEL SO. OFFSETS AND SIZING TO BE COORDINATED WITH DOWNSPOUTS AND STORM PIPING.



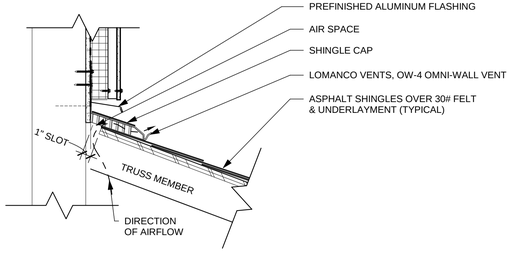
C6 DOWNSPOUT ADAPTOR
3" = 1'-0"



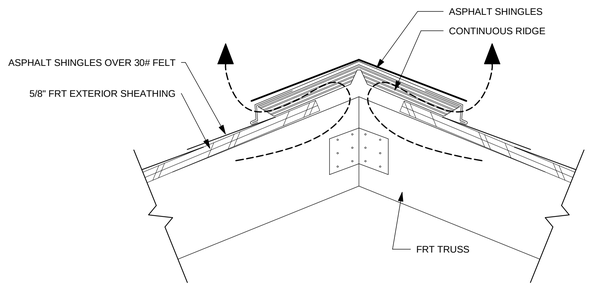
D1 CONDUCTOR HEAD DETAILS
1 1/2" = 1'-0"



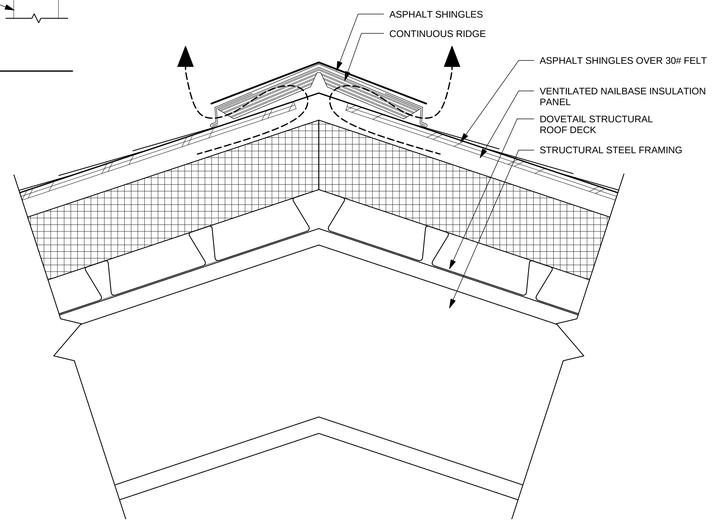
D4 CONDUCTOR ELEVATION
1 1/2" = 1'-0"



F1 TYPICAL ROOF/WALL VENT DETAIL
1 1/2" = 1'-0"



F3 RIDGE DETAIL @ STATION
3" = 1'-0" ALTERNATE G-1 – METAL ROOF ALTERNATE, REFER TO ALTERNATE DETAIL E4/A5.13



F5 RIDGE DETAIL @ APPARATUS
3" = 1'-0" ALTERNATE G-1 – METAL ROOF ALTERNATE, REFER TO ALTERNATE DETAIL C4/A5.13

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Timothy J. Bernert, License #12305
Expiration Date 12/31/2021

Beavercreek Township
Fire Station No. 65
1777 Trebein Road, Beavercreek Township, Ohio 45385

ISSUE:

NO.	DATE	DESCRIPTION
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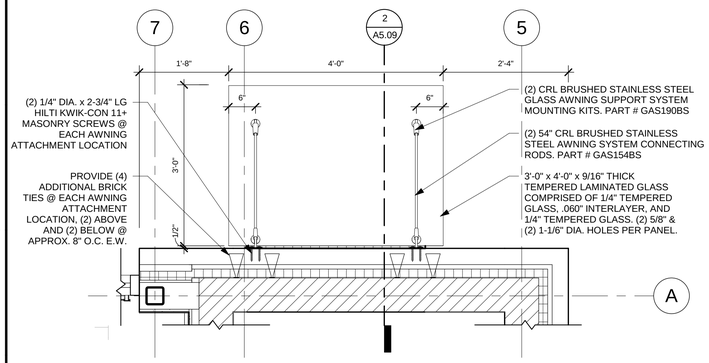
CAD	-

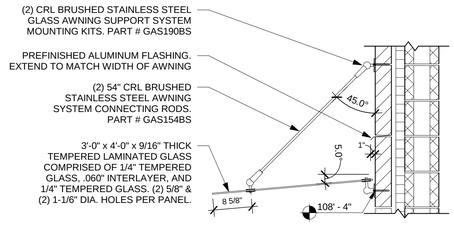
TITLE
EXTERIOR DETAILS - ROOF

SHEET NO.
A5.08

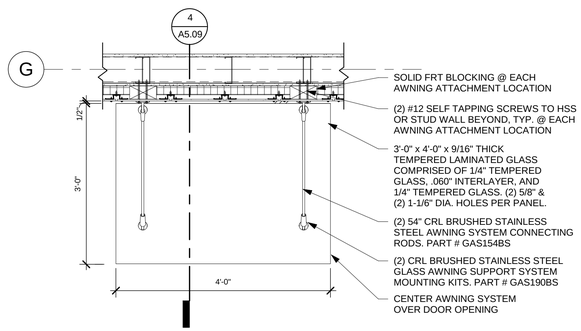
4/7/2020 9:54:34 AM



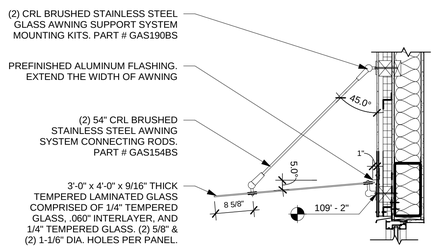
1 AWNING PLAN - DOOR B1
3/4" = 1'-0"



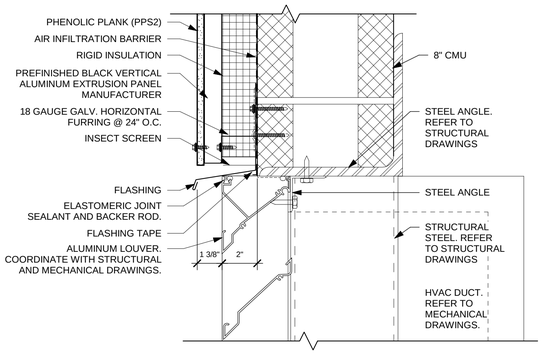
2 AWNING SECTION DOOR B1
3/4" = 1'-0"



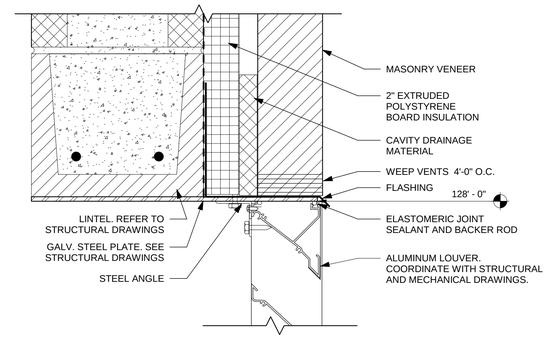
3 AWNING PLAN - DOOR 01
3/4" = 1'-0"



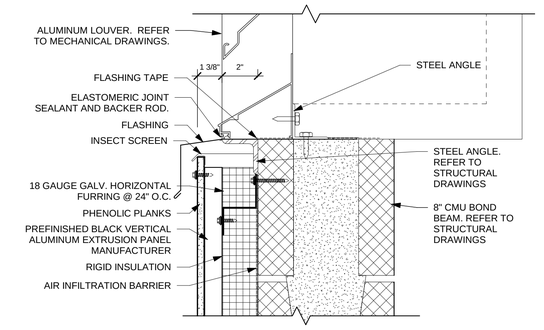
4 AWNING SECTION DOOR 01
3/4" = 1'-0"



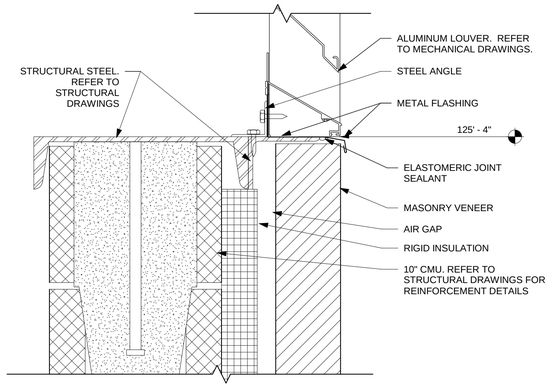
B4 LOUVER HEAD DETAIL
3" = 1'-0"



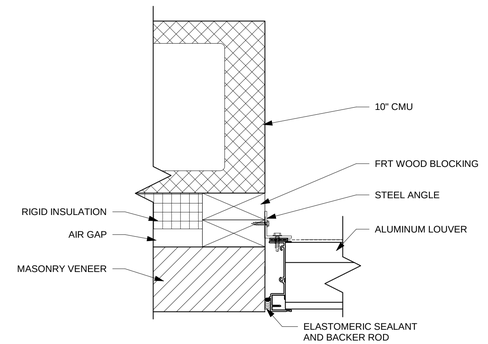
B6 LOUVER HEAD DETAIL
3" = 1'-0"



D4 LOUVER SILL DETAIL
3" = 1'-0"



D6 LOUVER SILL DETAIL
3" = 1'-0"



F6 LOUVER JAMB DETAIL
3" = 1'-0"

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Timothy J. Bernert, License #12305
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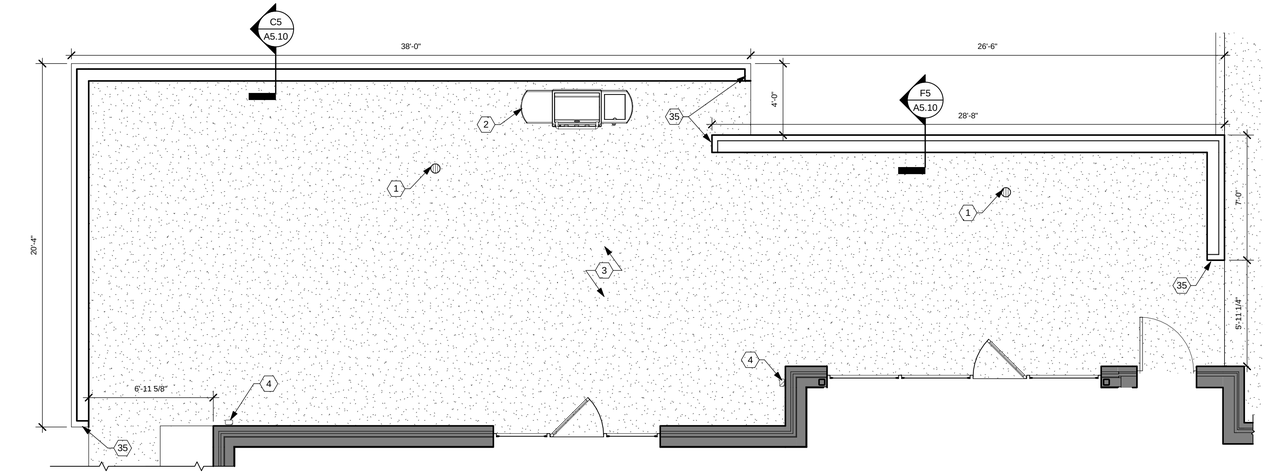
CAD	-

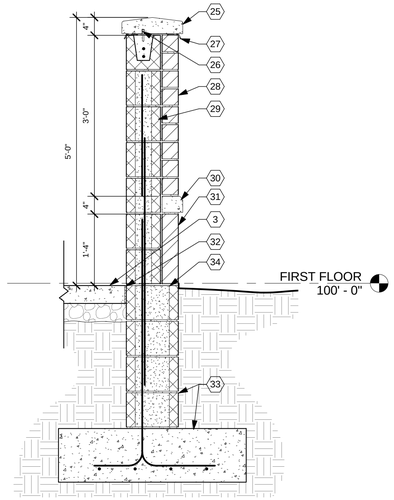
TITLE
EXTERIOR DETAILS - LOUVERS & AWNINGS

SHEET NO.
A5.09

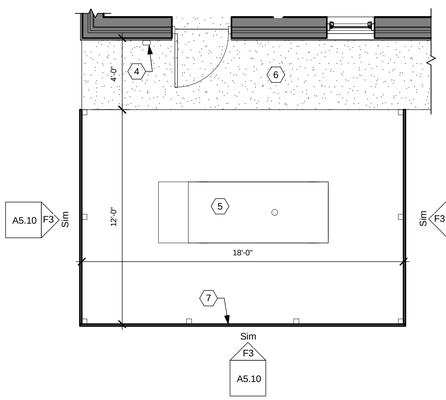
4/7/2020 9:54:37 AM



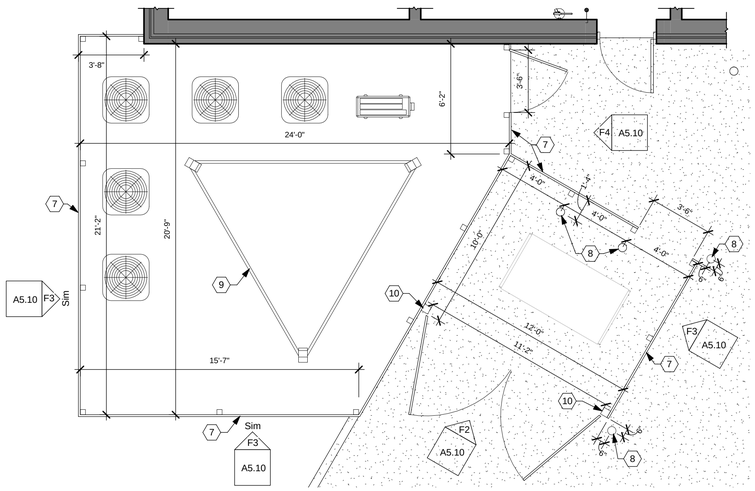
C1 PATIO ENCLOSURE
1/4" = 1'-0"



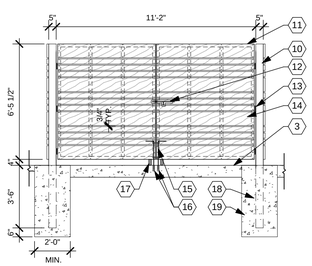
C5 PATIO WALL SECTION
3/4" = 1'-0"



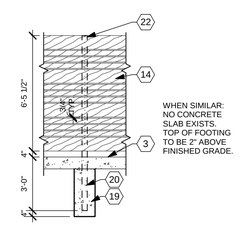
D1 GENERATOR ENCLOSURE
1/4" = 1'-0"



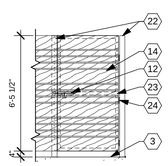
E3 TOWER/DUMPSTER ENCLOSURE
1/4" = 1'-0"



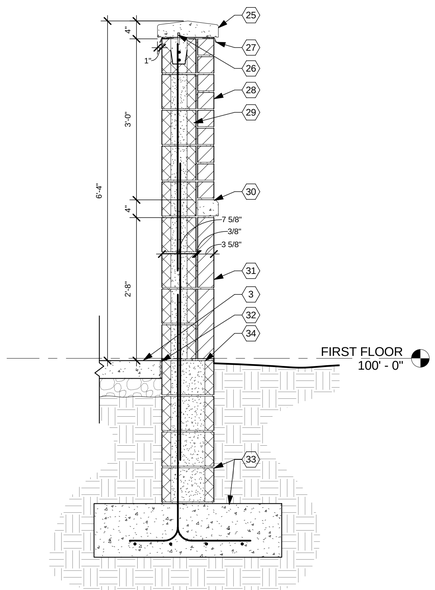
F2 DUMPSTER GATE DETAIL
1/4" = 1'-0"



F3 SCREEN FENCE ELEVATION (TYP)
1/4" = 1'-0"



F4 TOWER GATE ELEVATION
1/4" = 1'-0"



F5 PATIO WALL SECTION
3/4" = 1'-0"

CONSTRUCTION NOTES

⟨00⟩ INDICATES CONSTRUCTION NOTE.

1. FLOOR DRAIN. REFER TO CIVIL DRAWINGS.
2. OUTDOOR GRILL. OFOI. REFER TO PLUMBING DRAWINGS FOR GAS SUPPLY LINES.
3. CONCRETE SLAB. REFER TO CIVIL DRAWINGS FOR DETAILS.
4. DOWNSPOUT LOCATION WITH 24" DOWNSPOUT ADAPTOR. BASIS OF DESIGN: PIEDMONT MANUFACTURING, PIEDMONT PIPE DOWNSPOUT - MODEL SO. REFER TO SHEET A5.09 FOR DETAILS.
5. GENERATOR. REFER TO ELECTRICAL DRAWINGS.
6. CONCRETE SIDEWALK. REFER TO CIVIL DRAWINGS FOR DETAILS.
7. WOOD PRIVACY FENCE WITH 4X4 POSTS @ 6'-0" O.C. MAX. REFER TO FENCE DETAIL THIS SHEET WOOD PRIVACY FENCE WITH 4x4 PRESSURE TREATED POSTS @ 6'-0" O.C. MAX.
8. METAL PIPE BOLLARD (TYP) AT ALL OVERHEAD DOORS AND WHERE NOTED. REFER TO SHEET A5.04 FOR DETAILS.
9. RADIO TOWER.
10. 5"x 5"x 5/16" GALV. STEEL TUBE POST WITH POST CAP EACH SIDE OF DUMPSTER GATE.
11. 2" X 2" X 1/4" GALVANIZED STEEL TUBE FRAME, MITERED AND WELDED WITH VERTICAL BRACING.
12. STAINLESS STEEL SLIDE BOLT WITH HASP FOR PADLOCK ON EXTERIOR.
13. (3) FIVE KNUCKLE STAINLESS STEEL BALL BEARING HINGES EACH LEAF.
14. FENCE/GATE CLADDING TO BE 1"x 4" AND 1"x 10" WESTERN RED CEDAR PLANKS FASTENED WITH STAINLESS STEEL SCREWS AND FINISHED BOTH SIDES WITH SEMI-TRANSPARENT STAIN. COLOR TO BE SELECTED BY ARCHITECT.
15. HEAVY DUTY 18" CANE BOLT AT EACH GATE.
16. (2) METAL CANE BOLT SLEEVE CAST IN CONCRETE FOR CLOSED POSITION & (2) SLEEVES FOR OPEN POSITION.
17. PROVIDE ROLLER UNDER EACH GATE LEAF.
18. EMBED STEEL POST INTO CONCRETE.
19. CONCRETE FOOTING.
20. EMBED PRESSURE TREATED 4x4 INTO CONCRETE.
22. PRESSURE TREATED 4x4 POSTS @ 6'-0" O.C. MAX. STAIN TO MATCH FENCE CLADDING.
23. 2" X 2" X 1/4" GALVANIZED STEEL TUBE FRAME, MITERED AND WELDED WITH HORIZONTAL BRACING.
24. (3) FIVE KNUCKLE STAINLESS STEEL BALL BEARING HINGES.
25. CAST STONE WALL CAP WITH DRIP EDGE EACH SIDE.
26. S.S. DOWEL PER STONE MANUFACTURER W/ SEALANT AROUND PENETRATIONS THROUGH FLASHING.
27. THROUGH-WALL FLASHING WITH DRIP EDGE EACH SIDE.
28. UTILITY BRICK.
29. 8" BURNISHED FACE CMU.
30. CAST STONE WATER TABLE.
31. 16'x 24"x 4" BURNISHED FACE CMU.
32. EXPANSION MATERIAL.
33. CONCRETE FOOTING AND CMU FOUNDATION WALL. REFER TO STRUCTURAL DRAWING FOR DETAILS AND REINFORCEMENT.
34. TOP OF CMU FOUNDATION WALL TO EQUAL ELEVATION OF PATIO SLAB. COORDINATE BETWEEEN STRUCTURAL AND CIVIL DRAWINGS.
35. WRAP EXTERIOR MASONRY VENEER AND CAST STONE AROUND ENDS OF WALLS TO INTERIOR FACE.

GENERAL NOTES

A. ALL INTERIOR PARTITIONS ARE TYPE A1 U.N.O.

B. ALL PARTITIONS GO UP TO STRUCTURE ABOVE U.N.O.

C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.

D. REFER TO ELEVATIONS ON SHEET A7.07 & A7.08 FOR TOILET ROOM ACCESSORY CALLOUTS.

E. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.

F. ALL LOCATIONS OF FLOOR DRAINS (F.D.) TO BE COORDINATED WITH PLUMBING DRAWINGS.

G. "CG" INDICATES CORNER GUARD. REFER TO INTERIOR DETAILS FOR MORE INFORMATION.

H. ALL EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.

I. HINGE SIDE OF DOORS ARE 6" FROM ADJACENT WALL U.N.O.

J. DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE U.N.O.

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CAD	-

TITLE
EXTERIOR PATIO AND SCREEN WALLS

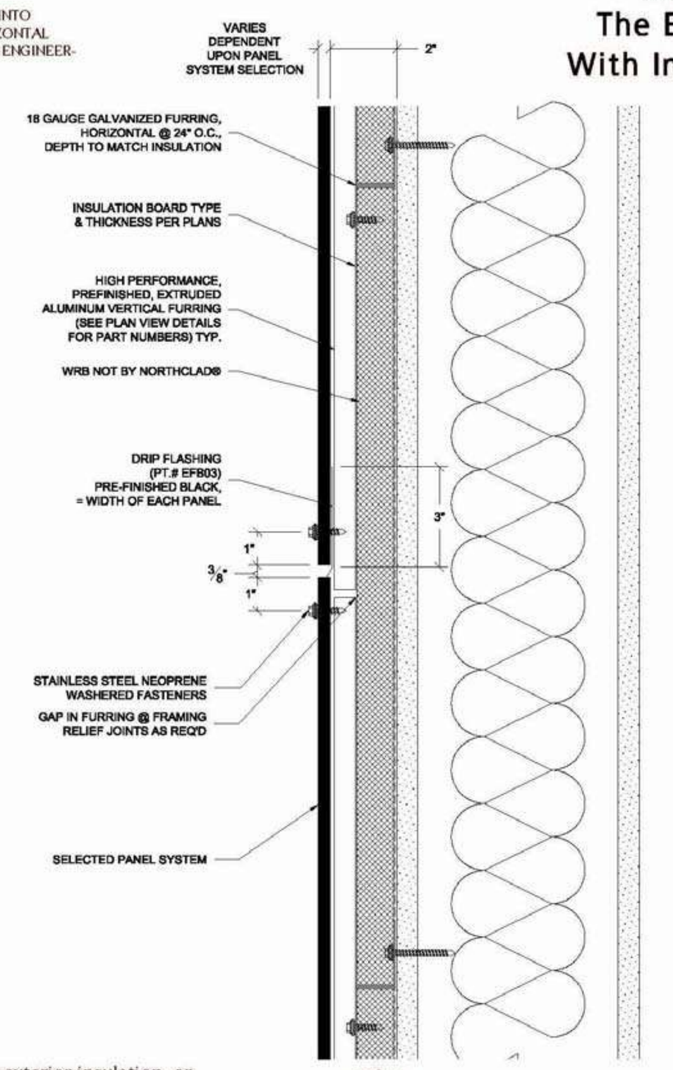
SHEET NO.
A5.10

4/7/2020 9:54:41 AM

■ Details

NorthClad® rainscreen solutions
The EF Series With Insulation

NOTE: FASTEN FURRING INTO ALIGNED STUD OR HORIZONTAL BLOCKING. SPACING PER ENGINEERING, 2'-0" O.C. MAX



For details without exterior insulation, or to download the CAD version of this detail, please see www.northclad.com.

A — Horizontal Joint
NOT TO SCALE

■ Details

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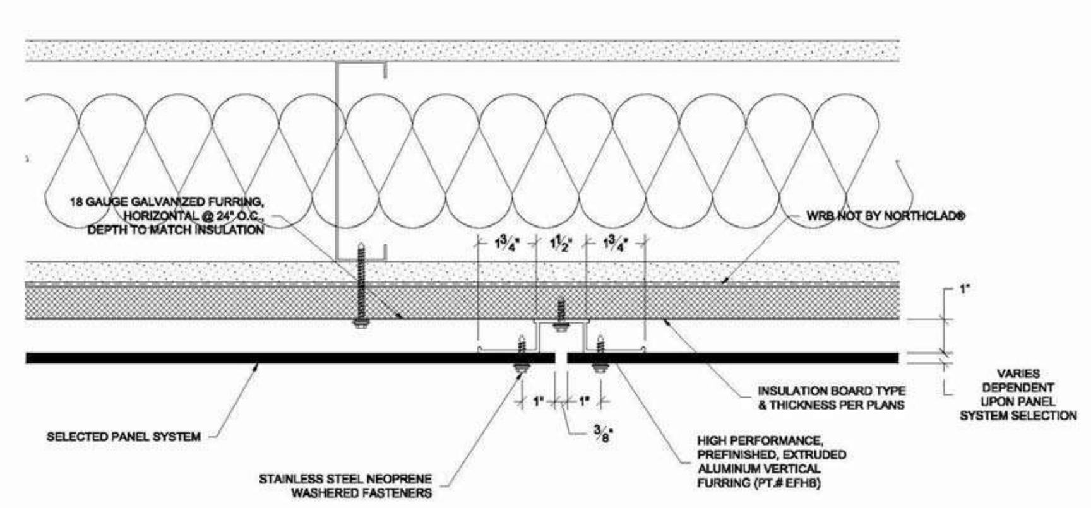
NOTE: FASTEN FURRING INTO ALIGNED STUD OR HORIZONTAL BLOCKING. SPACING PER ENGINEERING, 2'-0" O.C. MAX



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B — Vertical Joint
NOT TO SCALE

■ Details

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The EF Series With Insulation

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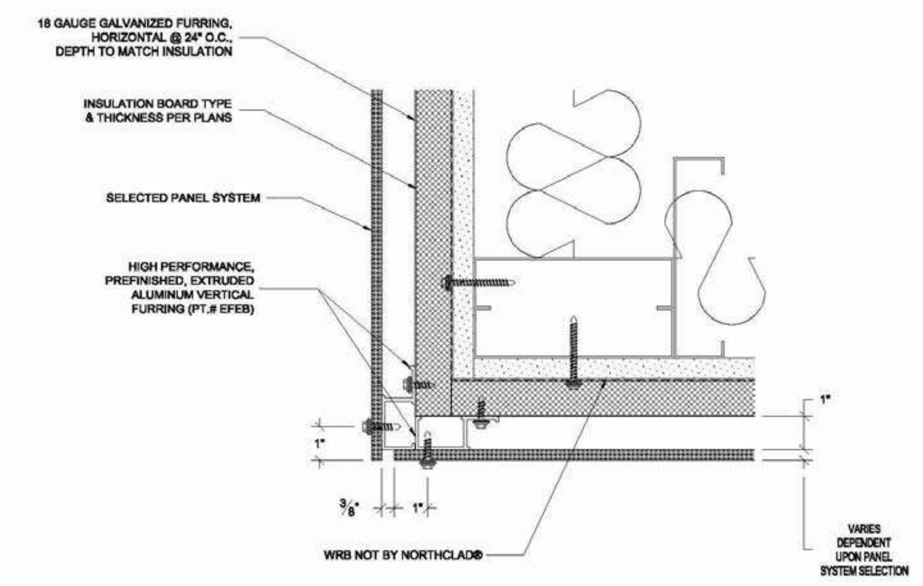

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G — Outside Corner
NOT TO SCALE

■ Details

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The EF Series With Insulation

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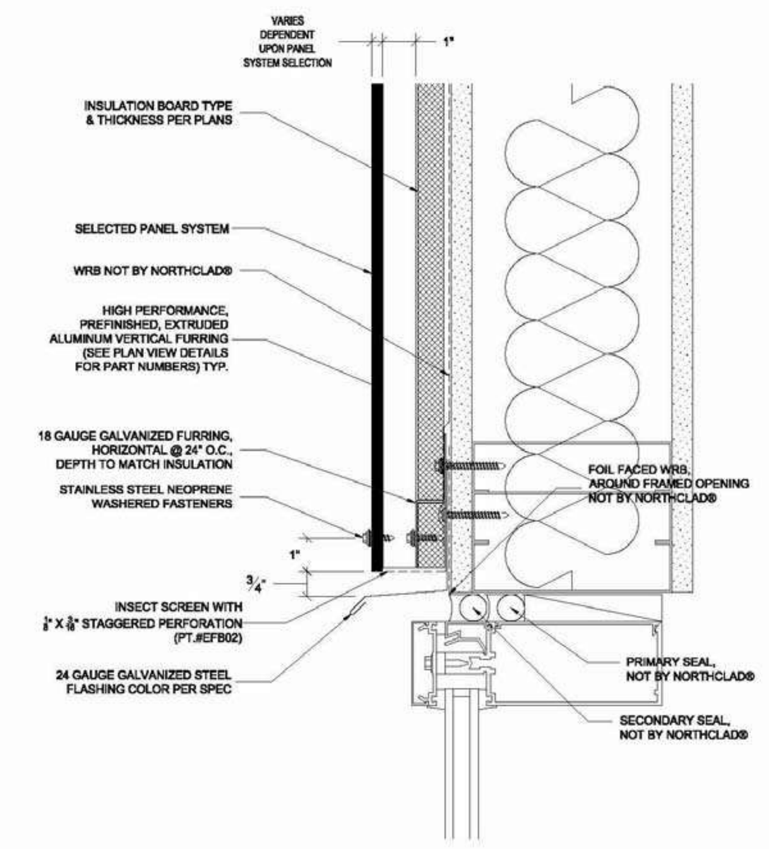

For details without exterior insulation, or to download the CAD version of this detail, please see www.northclad.com.

J — Window Head
NOT TO SCALE

■ Details

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The EF Series With Insulation

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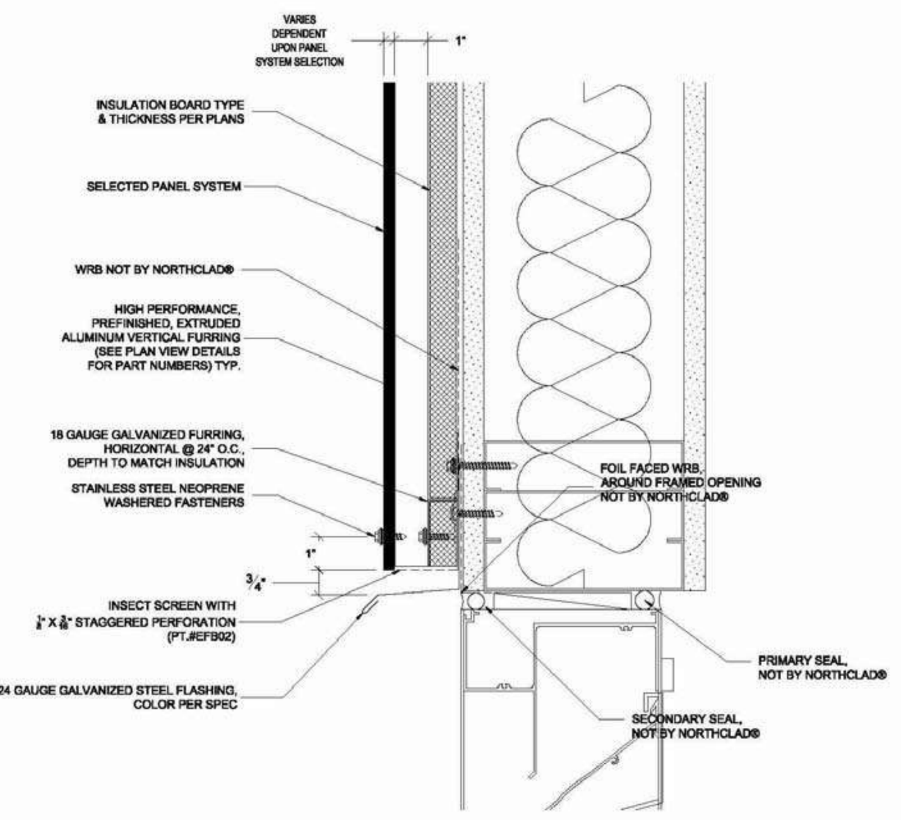


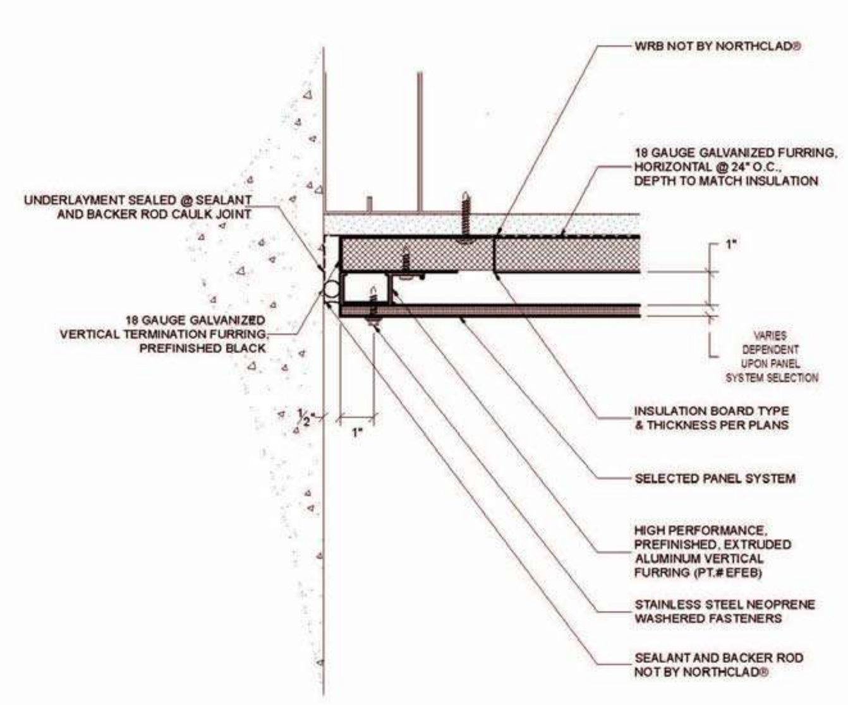
For details without exterior insulation, or to download the CAD version of this detail, please see www.northclad.com.

K — Louver Head
NOT TO SCALE

■ Details

NorthClad® rainscreen solutions
The EF Series With Insulation

NOTE: FASTEN FURRING INTO ALIGNED STUD OR HORIZONTAL BLOCKING. SPACING PER ENGINEERING, 2'-0" O.C. MAX



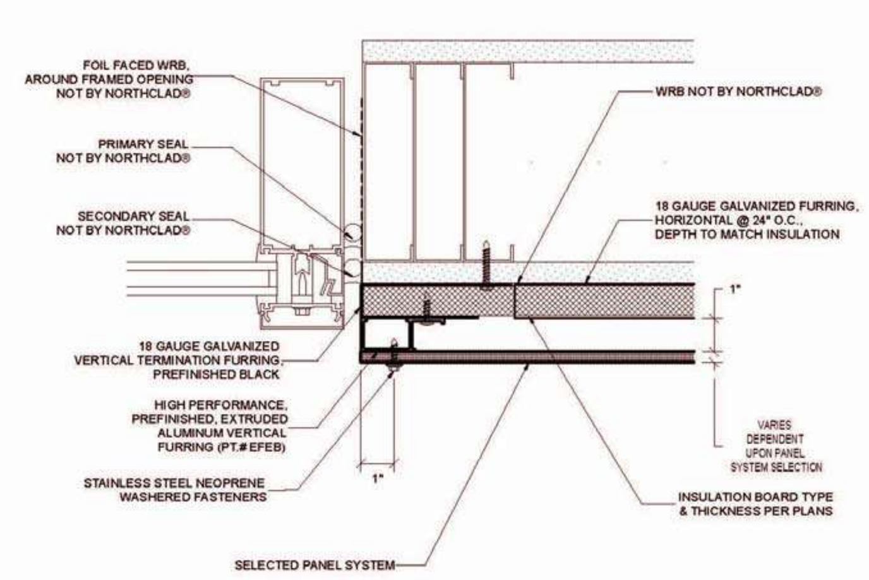
For details without exterior insulation, or to download the CAD version of this detail, please see www.northclad.com.

P — Vertical Termination
NOT TO SCALE

■ Details

NorthClad® rainscreen solutions
The EF Series With Insulation

NOTE: FASTEN FURRING INTO ALIGNED STUD OR HORIZONTAL BLOCKING. SPACING PER ENGINEERING, 2'-0" O.C. MAX



For details without exterior insulation, or to download the CAD version of this detail, please see www.northclad.com.

R — Window Jamb
NOT TO SCALE

■ Details

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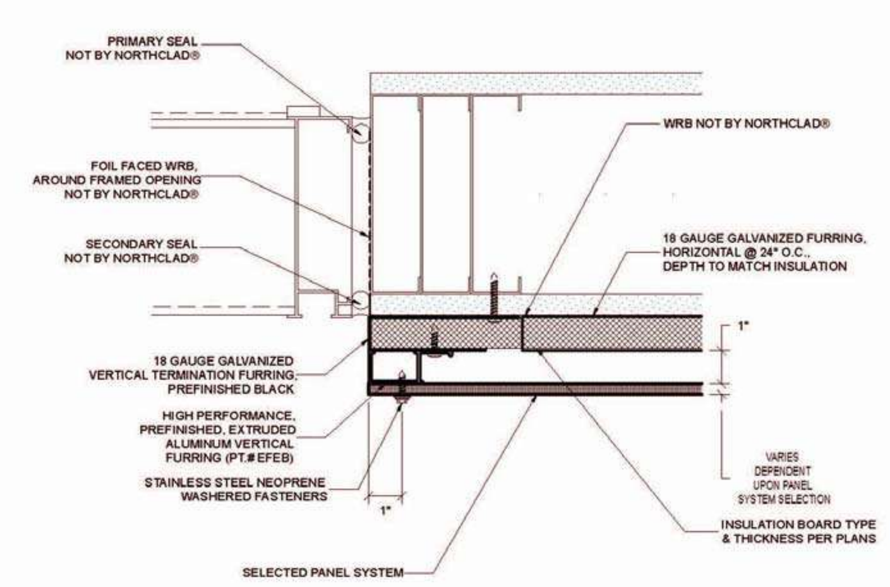

For details without exterior insulation, or to download the CAD version of this detail, please see www.northclad.com.

S — Louver Jamb
NOT TO SCALE

■ Details

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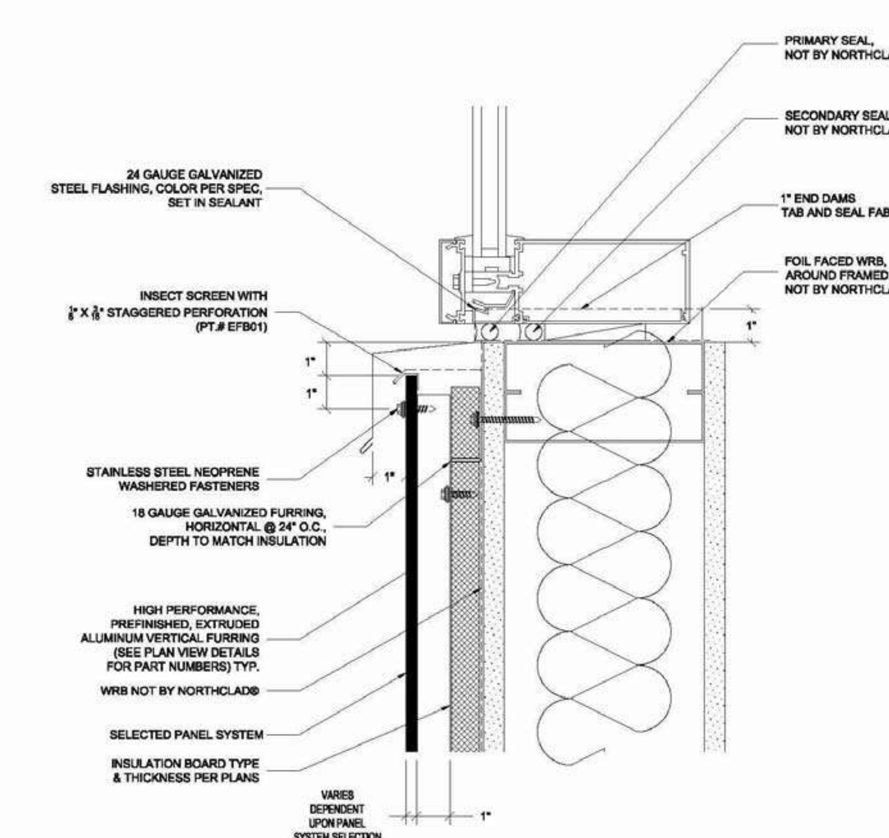
The EF Series With Insulation

NOTE: FASTEN FURRING INTO ALIGNED STUD OR HORIZONTAL BLOCKING. SPACING PER ENGINEERING, 2'-0" O.C. MAX



For details without exterior insulation, or to download the CAD version of this detail, please see www.northclad.com.

U — Window Sill
NOT TO SCALE

■ Details

NorthClad® rainscreen solutions
The EF Series With Insulation

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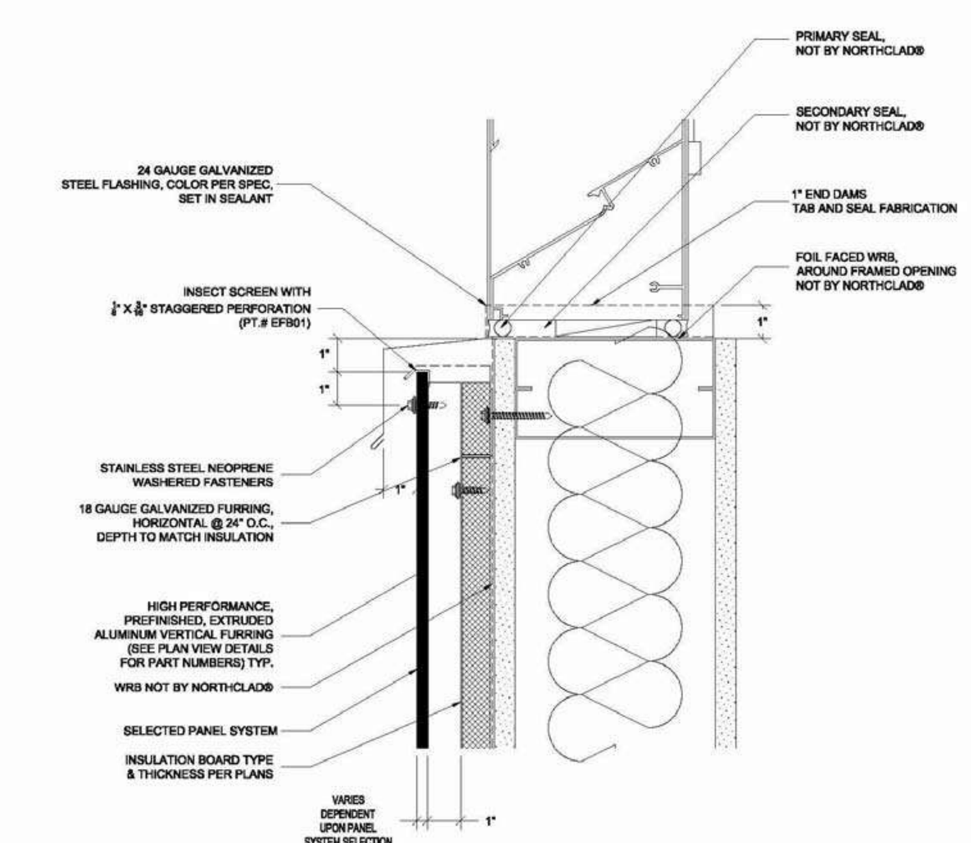

For details without exterior insulation, or to download the CAD version of this detail, please see www.northclad.com.

V — Louver Sill
NOT TO SCALE

PHENOLIC PLANK SIDING

MARK	SIZE	THICKNESS	FINISH
PPS-1	11 3/4" x 8'-0"	3/8"	MADISON WALNUT
PPS-2	11 3/4" x 8'-0"	3/8"	METROPOLITAN WALNUT
PPS-3	7 5/8" x 8'-0"	3/8"	COFFEE BEAN

BASIS OF DESIGN:
STONEWOOD EXTERIOR ARCHITECTURAL PANELS
SOLID PHENOLIC EXTERIOR WALL CLADDING

App Architecture
creative focused design
615 Woodside Drive, Englewood, Ohio 45322
T 937.836.8898 F 937.832.3696
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STATE OF OHIO — TIMOTHY J. BENNETT — 12305 — REGISTERED ARCHITECT
Timothy J. Bennett, License #12305
Expiration Date 12/31/2021

Beavercreek Township
Fire Station No. 65
1777 Trebein Road, Beavercreek Township, Ohio 45385

ISSUE:

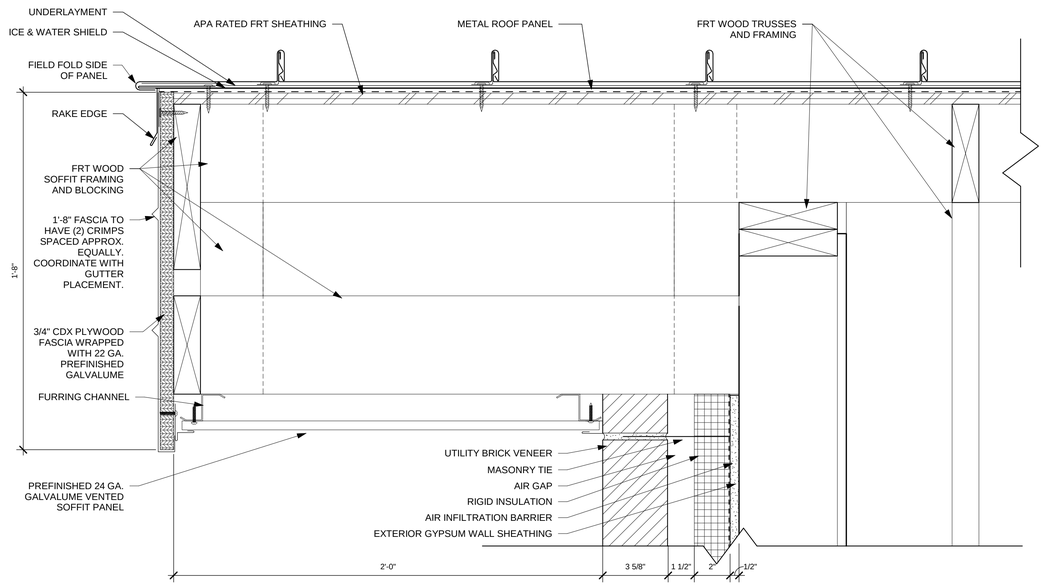
NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION

DATE	04/03/2020
JOB NO.	3541.01
DRAWN	CMS
CHECKED	TJB
CAD	-

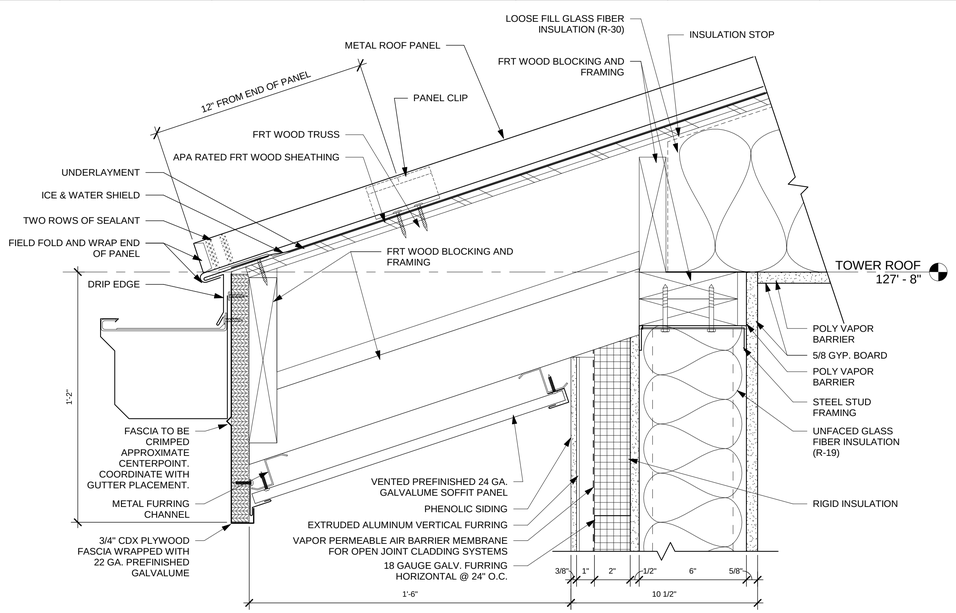
TITLE
EXTERIOR DETAILS - TYPICAL PHENOLIC SIDING DETAILS

SHEET NO.
A5.11

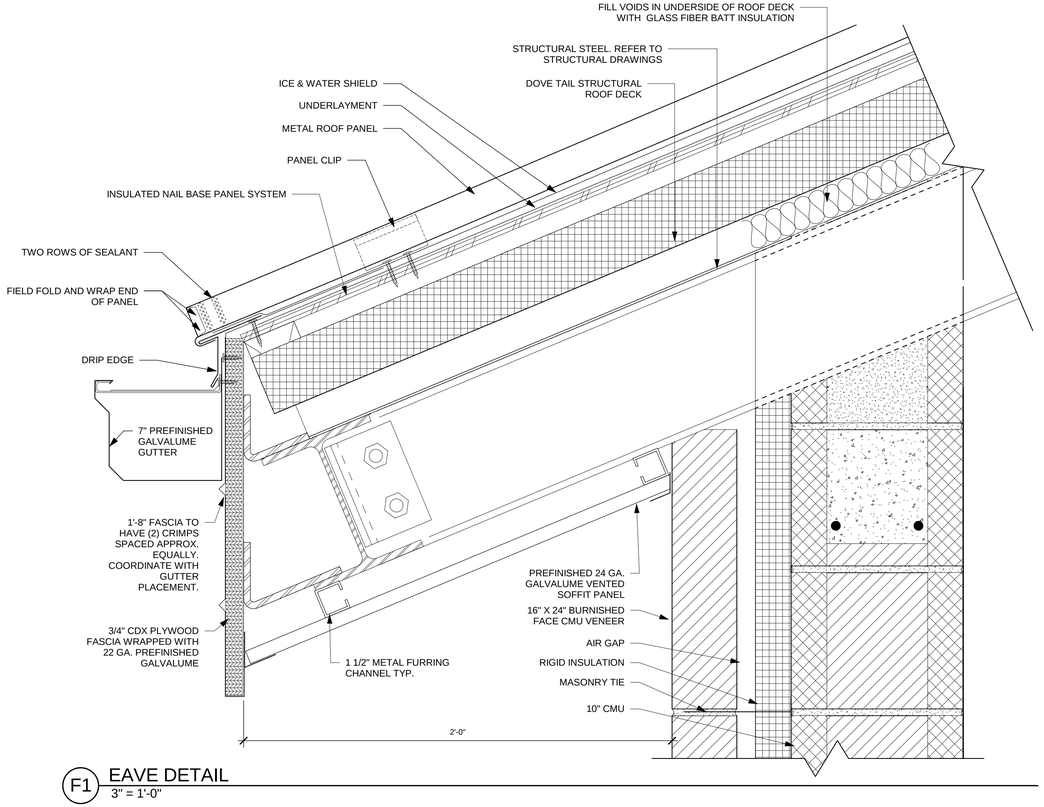
4/7/2020 9:54:47 AM



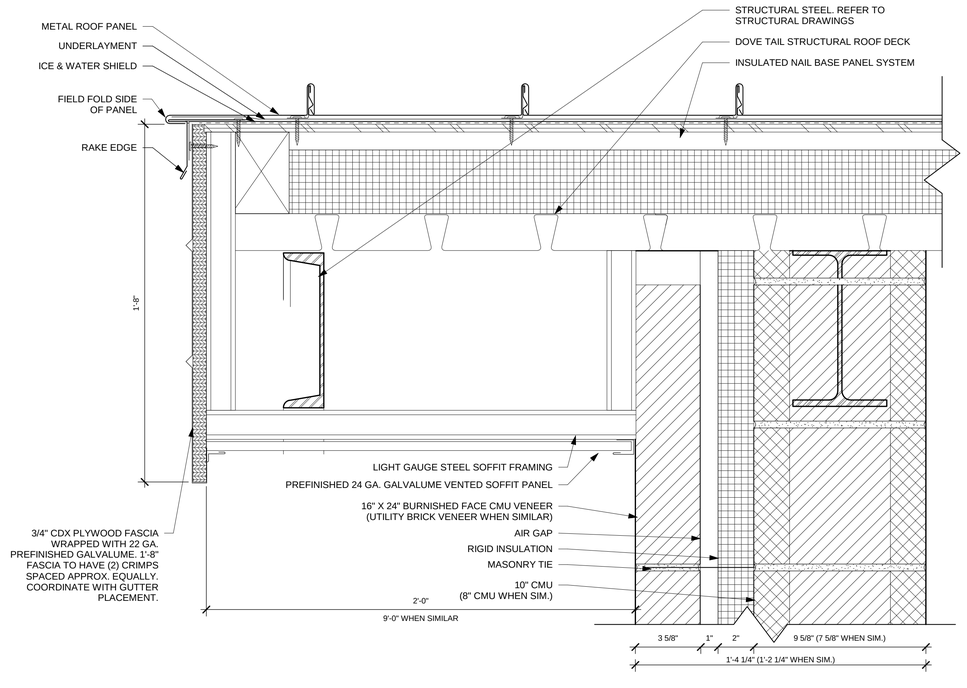
C1 EAVE DETAIL
3" = 1'-0"



C5 SOFFIT DETAIL
3" = 1'-0"



F1 EAVE DETAIL
3" = 1'-0"



F5 EAVE DETAIL
3" = 1'-0"

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STATE OF OHIO TIMOTHY J. BERNERT REGISTERED ARCHITECT 12305

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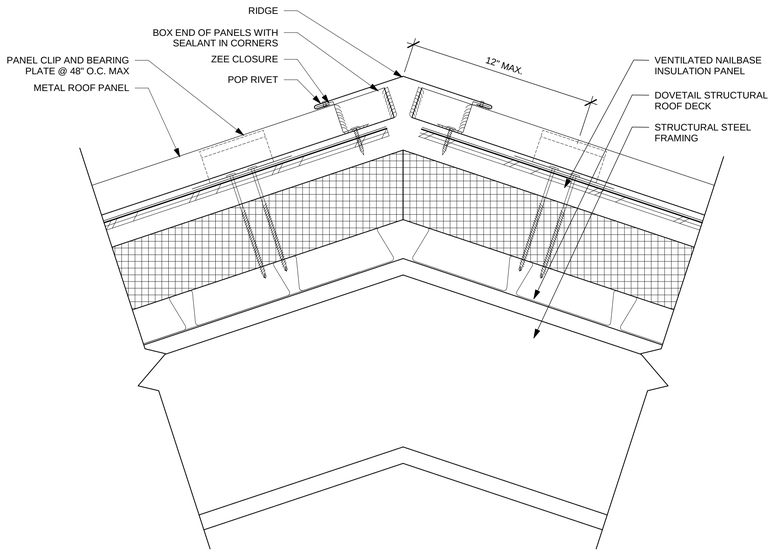
CAD	-

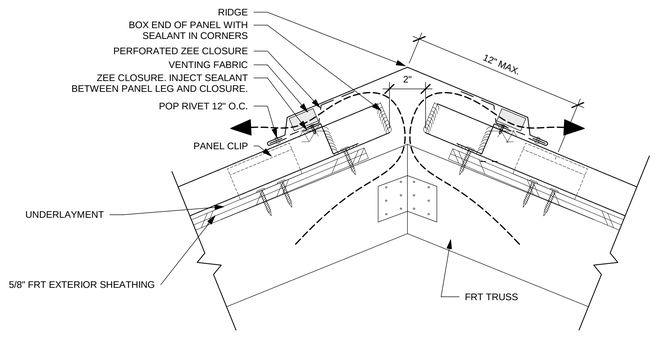
TITLE
ALTERNATE G-1 METAL ROOF DETAILS

SHEET NO.
A5.12

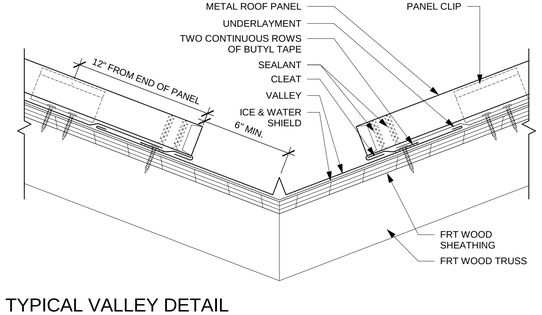
4/7/2020 9:54:49 AM



C4 RIDGE DETAIL @ APPARATUS
3" = 1'-0"



E4 RIDGE DETAIL @ STATION
3" = 1'-0"



F4 TYPICAL VALLEY DETAIL
3" = 1'-0"

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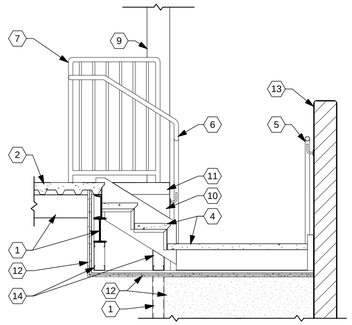
DRAWN	Author
CHECKED	TJB
CAD	-

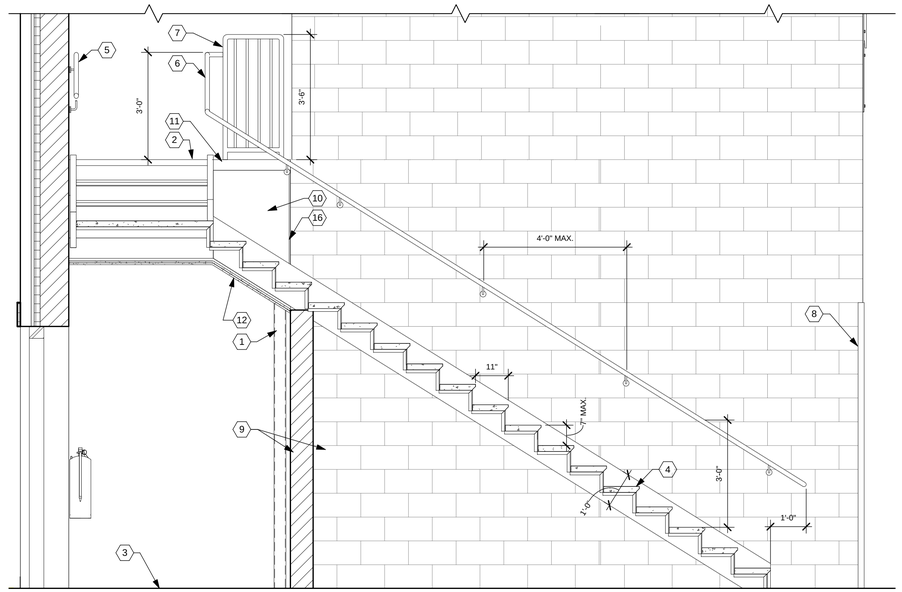
TITLE
ALTERNATE G-1 METAL ROOF DETAILS

SHEET NO.
A5.13

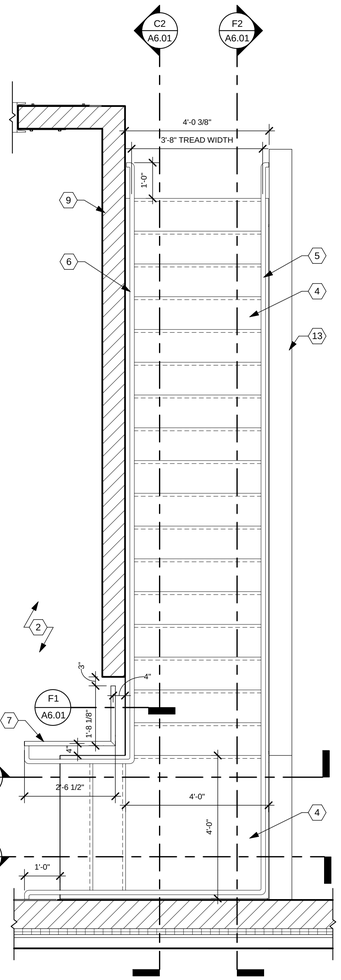
4/7/2020 9:54:51 AM



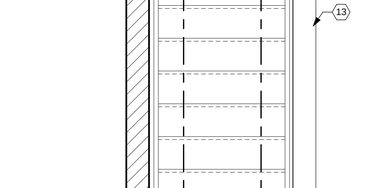
B1 STAIR SECTION
1/2" = 1'-0"



C2 STAIR SECTION
1/2" = 1'-0"



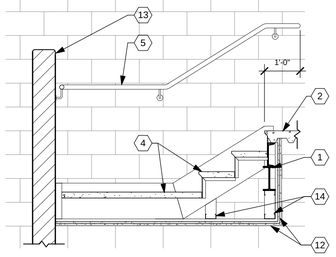
E5 MEZZANINE STAIR PLAN
1/2" = 1'-0"



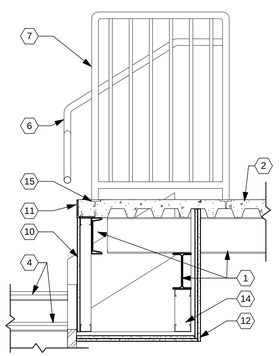
PLAN SECTION

NOTE: GRIND SMOOTH ALL WELDS AND EASE SHARP

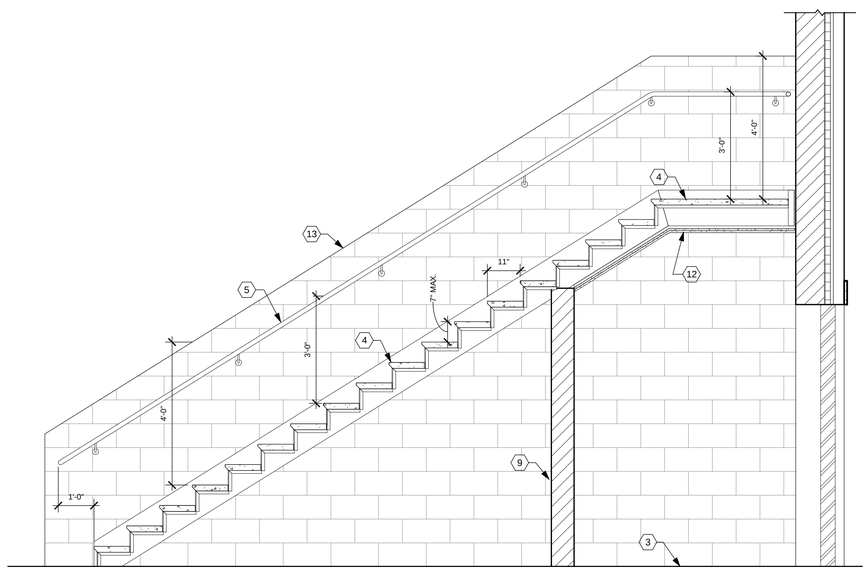
F5 HAND RAIL DETAILS
3" = 1'-0"



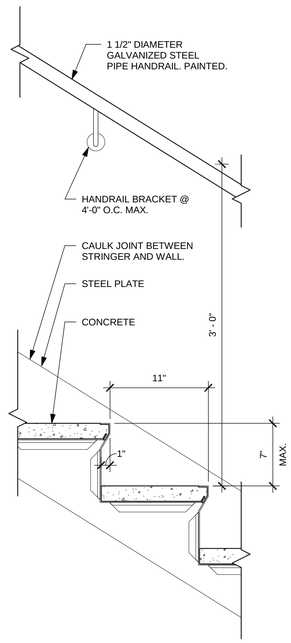
D1 STAIR SECTION
1/2" = 1'-0"



F1 STAIR/RAILING/SLAB DETAIL
3/4" = 1'-0"



F2 STAIR SECTION
1/2" = 1'-0"



F7 TYPICAL STAIR DETAIL
1 1/2" = 1'-0"

CONSTRUCTION NOTES

⟨00⟩ INDICATES CONSTRUCTION NOTE.

1 STRUCTURAL STEEL. REFER TO STRUCTURAL DRAWINGS.
2 CONCRETE FLOOR SLAB OVER METAL DECK. REFER TO STRUCTURAL DRAWINGS.
3 CONCRETE SLAB ON GRADE. REFER TO STRUCTURAL DRAWINGS.
4 STEEL PAN STAIR WITH POURED CONCRETE TREADS AND LANDING, TYP.
5 1 1/2" PIPE HANDRAILING WITH WALL BRACKETS AT 4' - 0" O.C. MAXIMUM TYPICAL. RETURN TO WALL AT ENDS.
6 1 1/2" PIPE HANDRAILING WITH WALL BRACKETS AT 4' - 0" O.C. MAXIMUM TYPICAL. RETURN TO WALL AT BOTTOM END. ATTACH TO GUARDRAIL BALLUSTERS WHEN ABOVE WALL AND RETURN TO GUARDRAIL AT TOP LANDING.
7 1 1/2" PIPE GUARD RAILING WITH 3/4" DIAMETER STEEL PICKETS. SPACING BETWEEN PICKETS < 4 3/4" O.C. 1 1/2" BOTTOM RAIL <4 3/4" O.C. ABOVE FINISHED FLOOR.
8 CORNER GUARD. REFER TO PLANS FOR TYPE.
9 CMU WALLS. REFER TO DIMENSION PLAN FOR TYPE.
10 LIGHT GAUGE METAL STUD WALL WITH 5/8" GYP. BD. THIS AREA. APPLY VWP-1 TO FACE.
11 STEEL ANGLE AT EDGE OF MEZZANINE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
12 CEILING TYPE F7 (U.L. L532). 7/8" FURRING AND (2) LAYERS OF 5/8" TYPE "X" GYP. BD. ATTACHED TO UNDERSIDE OF STAIR STRINGERS ABOVE.
13 CMU WALLS. REFER TO DIMENSION PLAN FOR TYPE. TOP AND EXPOSED END TO BE BULL-NOSED.
14 LIGHT GAUGE METAL STUD FRAMING.
15 STEEL PLATE AND STUD @ EACH POST. REFER TO STRUAL DRAWINGS FOR DETAILS.
16 VINYL REVEAL AT JOINT WHERE STUD WALL WITH VWP-1 MEETS CMU WALL.

GENERAL NOTES

A. RADIUS/GRIND/EASE CORNERS AND SURFACES SMOOTH ON RAILS, POSTS, WELDS, AND CONNECTORS.

B. ALL RAILS, STRINGERS, AND STRUCTURE SHALL BE EPOXY PAINTED (EP-2).

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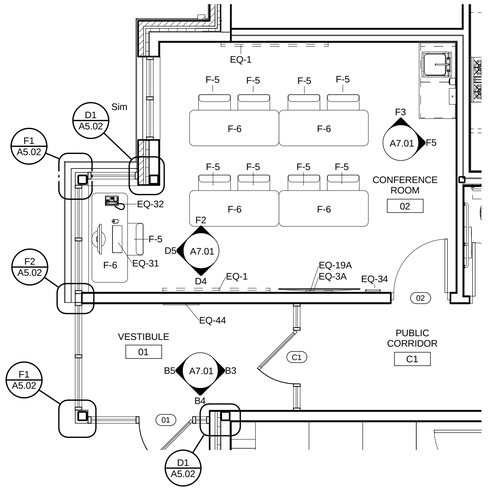
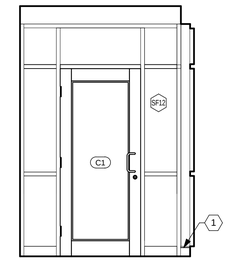
TITLE
VERTICAL CIRCULATION

SHEET NO.
A6.01

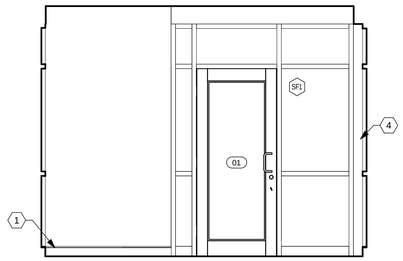
4/7/2020 9:54:55 AM



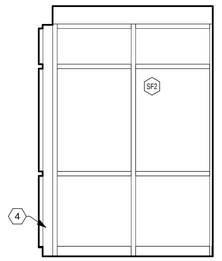
D1 ENLARGED PLAN - CONFERENCE AND VESTIBULE
1/4" = 1'-0"



B3 VESTIBULE - SOUTH WALL
3/8" = 1'-0"



B4 VESTIBULE - WEST WALL
3/8" = 1'-0"

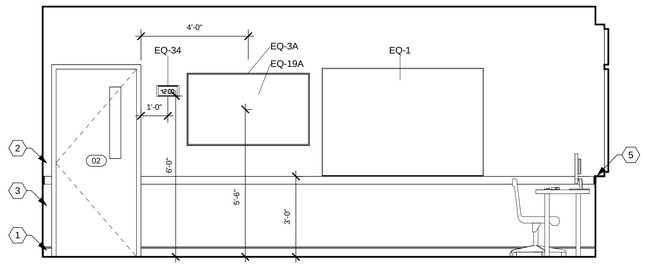


B5 VESTIBULE - NORTH WALL
3/8" = 1'-0"

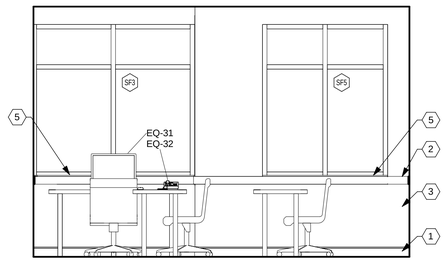
01 VESTIBULE - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1	EQ-44	DEDICATION PLAQUE	COORDINATION SIZE/LOCATION WITH OWNER	OFCI

02 CONFERENCE ROOM - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
2	EQ-1	DRY ERASE BOARD - 6'		OFCI
1	EQ-3A	MONITOR - 60"	WALL MOUNT	OFCI
1	EQ-19A	WALL MOUNT FOR 60" MONITOR		OFCI
1	EQ-34	WALL CLOCK	72" A.F.F.	OFCI
1	TS-9	SOAP DISPENSER		OFCI
1	TS-10	PAPER TOWEL DISPENSER		OFCI
1	EQ-31	COMPUTER		OFOI
1	EQ-32	TELEPHONE, DESK		OFOI
9	F-5	CHAIR, TASK		OFOI
5	F-6	TABLE, 24"X60"		OFOI

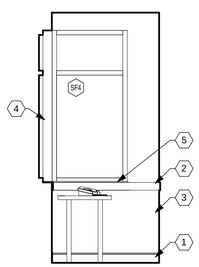
02 CONFERENCE ROOM - CASEWORK				
QTY.	TYPE	DESCRIPTION	COMMENTS	CAT.
1	BC2434	CAB. TYPE - BC, 24"x 34"	REFER TO CASEWORK DETAILS	CFCI
1	C-SSF	COUNTER, SOLID SURFACE	REFER TO CONST. NOTES	CFCI
1	FS34	FILLER STRIP 34"		CFCI
1	SB2434	CAB. TYPE - SB, 24"x 34"	REFER TO CASEWORK DETAILS	CFCI



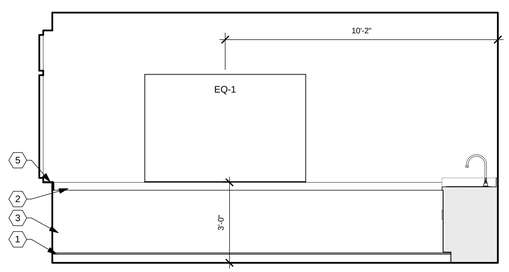
D4 CONFERENCE - WEST WALL
3/8" = 1'-0"



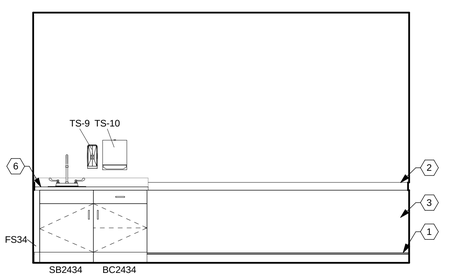
D5 CONFERENCE - NORTH WALL
3/8" = 1'-0"



CONFERENCE - EAST ALCOVE
F2 3/8" = 1'-0"



F3 CONFERENCE - EAST WALL
3/8" = 1'-0"



F5 CONFERENCE - SOUTH WALL
3/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 RUBBER BASE (RB-1)

2 CHAIR RAIL (CR)

3 VWP-2 ALL WALLS THIS ROOM

4 BREAK METAL TO MATCH STOREFRONT

5 WINDOW SILL (SSF-1)

6 1 1/2" SOLID SURFACE (SSF-1) COUNTERTOP . 4" BACK & SIDE SPLASHES WHERE COUNTER ABUTS WALL.

GENERAL NOTES

A. REFER TO ROOM FINISH SCHEDULE, MATERIAL LEGEND, AND FINISHES PLANS FOR FINISH AND MATERIAL DETAILS.

B. ELECTRICAL INFORMATION SHOWN FOR REFERNCE ONLY. REFER TO ELECTRICAL PLANS FOR DETAILS.

C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.

D. REFER TO ELEVATIONS ON SHEET A0.01 FOR TOILET ROOM ACCESSORY MOUNTING HEIGHTS AND CLEARANCES.

E. "CG" INDICATES CORNER GUARD. REFER TO INTERIOR DETAILS FOR MORE INFORMATION.

F. ALL COUNTERTOPS AND WORK SURFACES TO HAVE BACK AND SIDE SPLASHES WHEREVER THE SURFACE ABUTS A WALL.

G. MATCHING SCRIBE STRIPS TO BE PROVIDED TO FILL GAPS AND IRREGULARITIES WHERE THE EDGE OF CABINETS AND LOCKERS MEET WALLS. FILLER STRIPS ALSO TO BE PROVIDED AT CABINETRY AND LOCKER CORNERS TO FILL ANY GAPS LEFT TO ALLOW DOORS AND DRAWERS TO FUNCTION PROPERLY.

H. DIMENSIONS ARE FROM FACE OF GYP. BD. TO FACE OF GYP. BD.

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CAD	-

TITLE
ENLARGED PLAN & INTERIOR ELEVATIONS

SHEET NO.
A7.01

4/7/2020 9:54:59 AM

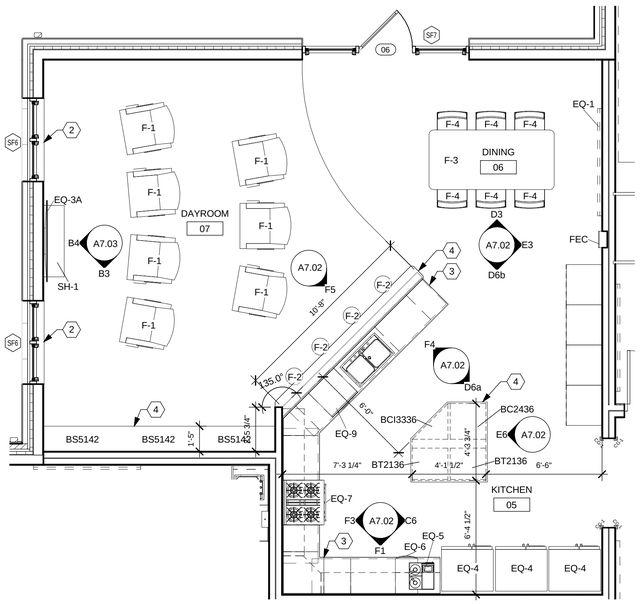
05 KITCHEN - CASEWORK				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1	4BD1536	CAB. TYPE - 4BD, 15"x 36"	REFER TO CASEWORK DETAILS	CFCI
1	4BD1836	CAB. TYPE - 4BD, 18"x 36"	REFER TO CASEWORK DETAILS	CFCI
1	BC1536	CAB. TYPE - BC, 15"x 36"	REFER TO CASEWORK DETAILS	CFCI
1	BC1836	CAB. TYPE - BC, 18"x 36"	REFER TO CASEWORK DETAILS	CFCI
1	BC2436	CAB. TYPE - BCI, 24"x 36"	REFER TO CASEWORK DETAILS	CFCI
2	BC3036	CAB. TYPE - BC, 30"x 36"	REFER TO CASEWORK DETAILS	CFCI
1	BCI3336	CAB. TYPE - BCI, 33"x 36"	REFER TO CASEWORK DETAILS	CFCI
2	BT2136	CAB. TYPE - BCI, 21"x 36"	REFER TO CASEWORK DETAILS	CFCI
3	CTR-PL	COUNTER, PLASTIC LAMINATE	REFER TO CONST. NOTES	CFCI
7	FS36	FILLER STRIP 36"		CFCI
2	FSW	FILLER STRIP, WALL CABINET		CFCI
4	PC2784	CAB. TYPE - PC, 27"x 84"	REFER TO CASEWORK DETAILS	CFCI
1	PP3036	CAB. TYPE - BC, 30"x 36"	REFER TO CASEWORK DETAILS	CFCI
1	SB3936	CAB. TYPE - SB, 39"x 36"	REFER TO CASEWORK DETAILS	CFCI
4	ST	SLOPED TOP	REFER TO CASEWORK DETAILS	CFCI
1	TD1236	CAB. TYPE - TD, 12"x 36"	REFER TO CASEWORK DETAILS	CFCI
3	W1830	CAB. TYPE - W, 18"x 30"	REFER TO CASEWORK DETAILS	CFCI
1	W3012	CAB. TYPE - W, 30"x 12"	REFER TO CASEWORK DETAILS	CFCI
2	W3030	CAB. TYPE - W, 30"x 30"	REFER TO CASEWORK DETAILS	CFCI
1	WC30	CAB. TYPE - W, 45-CORNER, 30H	REFER TO CASEWORK DETAILS	CFCI

05 KITCHEN - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1	EQ-8	RANGE HOOD, 30" AND STAINLESS STEEL BACKSPLASH	REFER TO HVAC DRAWINGS AND SPECIFICATIONS	CFCI
3	EQ-4	REFRIGERATOR		OFCI
1	EQ-5	COFFEE MAKER		OFCI
1	EQ-6	ICE MAKER, UNDER COUNTER		OFCI
1	EQ-7	RANGE, GAS 30"		OFCI
1	EQ-9	DISHWASHER, 24"		OFCI
1	EQ-35	MICROWAVE		OFCI

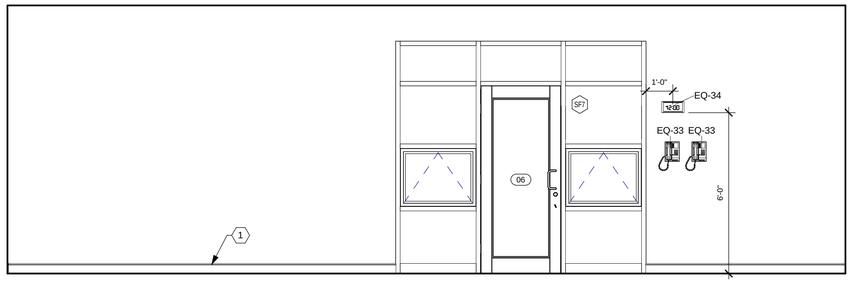
06 DINING - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1	EQ-1	DRY ERASE BOARD - 6'		OFCI
1	EQ-34	WALL CLOCK		OFCI
1	FEC	SEMI RECESSED FIRE EXTINGUISHER CABINET	REFER TO SHEET A1.11	OFCI
2	EQ-33	TELEPHONE, WALL		OFOI
1	EQ-45	GRILL, GAS OUTDOOR		OFOI
1	F-3	DINING TABLE 40"x 84"		OFOI
6	F-4	DINING CHAIR		OFOI

07 DAYROOM - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1	EQ-3A	MONITOR - 60"	WITH WALL MOUNT	OFCI
1	EQ-19A	WALL MOUNT FOR 60" MONITOR		OFCI
7	F-1	CHAIR, RECLINER		OFOI
4	F-2	BAR STOOL		OFOI

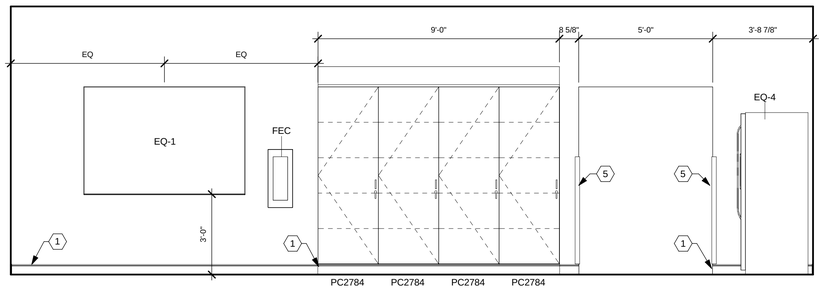
07 DAYROOM - CASEWORK				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
3	BS5142	BOOK SHELVES, 51"x 42"	REFER TO CASEWORK DETAILS	CFCI
1	CTR-PL	COUNTER, PLASTIC LAMINATE	REFER TO CONST. NOTES	CFCI
2	FS42	FILLER STRIP 42"		CFCI
1	SH-1	SHELF TYPE (SH), 14" x 48"	REFER TO CASEWORK DETAILS	CFCI



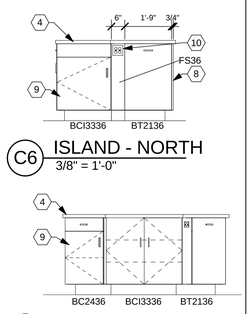
E1 ENLARGED PLAN - DAYROOM, DINING, KITCHEN
1/4" = 1'-0"



D3 DINING - EAST WALL
3/8" = 1'-0"

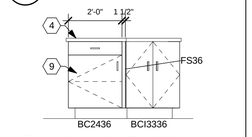


E3 DINING / KITCHEN SOUTH WALL
3/8" = 1'-0"

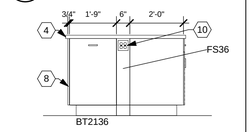


C6 ISLAND - NORTH
3/8" = 1'-0"

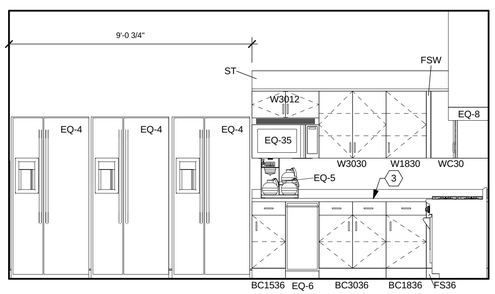
D6a ISLAND - N/E
3/8" = 1'-0"



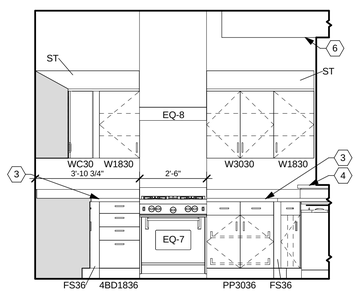
D6b ISLAND EAST
3/8" = 1'-0"



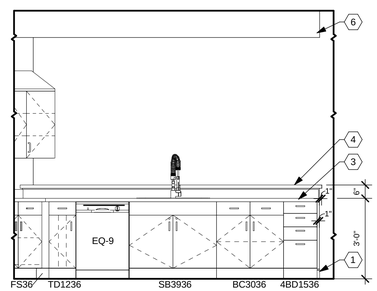
E6 ISLAND - SOUTH
3/8" = 1'-0"



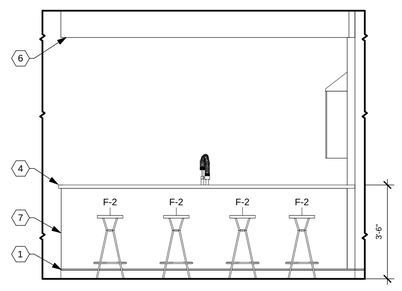
F1 KITCHEN - WEST WALL
3/8" = 1'-0"



F3 KITCHEN - NORTH WALL
3/8" = 1'-0"



F4 KITCHEN - BAR S/W
3/8" = 1'-0"



F5 KITCHEN - BAR N/E
3/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 RUBBER BASE (RB-1)

2 WINDOW SILL (SSF-1)

3 1 1/2" PLASTIC LAMINATE (PL-2) COUNTERTOP WITH MATCHING PVC EDGING. 4" BACK & SIDE SPLASHES WHERE COUNTER ABUTS WALL.

4 1 1/2" PLASTIC LAMINATE (PL-2) COUNTERTOP WITH MATCHING PVC EDGING.

5 CORNER GUARD (CG-1). 4'-0" TALL. MOUNT ABOVE BASE.

6 SOFFIT. REFER TO CEILING PLAN.

7 WALL TYPE A1.

8 3/4" PLASTIC LAMINATE (PL-1) END PANEL.

9 ALL ISLAND CABINETS ARE SIMILAR TO BC TYPE CABINETS WITH TOE-KICKS ON ALL EXPOSED SIDES.

10 DOUBLE DUPLEX ELECTRICAL OUTLET IN ISLAND. REFER TO ELECTRICAL DRAWINGS.

GENERAL NOTES

A. REFER TO ROOM FINISH SCHEDULE, MATERIAL LEGEND, AND FINISHES PLANS FOR FINISH AND MATERIAL DETAILS.

B. ELECTRICAL INFORMATION SHOWN FOR REFERNCE ONLY. REFER TO ELECTRICAL PLANS FOR DETAILS.

C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.

D. REFER TO ELEVATIONS ON SHEET A0.01 FOR TOILET ROOM ACCESSORY MOUNTING HEIGHTS AND CLEARANCES.

E. "CG" INDICATES CORNER GUARD. REFER TO INTERIOR DETAILS FOR MORE INFORMATION.

F. ALL COUNTERTOPS AND WORK SURFACES TO HAVE BACK AND SIDE SPLASHES WHEREVER THE SURFACE ABUTS A WALL.

G. MATCHING SCRIBE STRIPS TO BE PROVIDED TO FILL GAPS AND IRREGULARITIES WHERE THE EDGE OF CABINETS AND LOCKERS MEET WALLS. FILLER STRIPS ALSO TO BE PROVIDED AT CABINETRY AND LOCKER CORNERS TO FILL ANY GAPS LEFT TO ALLOW DOORS AND DRAWERS TO FUNCTION PROPERLY.

H. DIMENSIONS ARE FROM FACE OF GYP. BD. TO FACE OF GYP. BD.

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STATE OF OHIO TIMOTHY J. BERNERT REGISTERED ARCHITECT 12305

Timothy J. Bernert, License #12305
Expiration Date 12/31/2021

Beavercreek Township
Fire Station No. 65
1777 Trebein Road, Beavercreek Township, Ohio 45385

ISSUE:

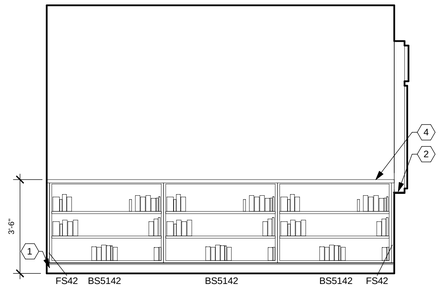
NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION

DATE	04/03/2020
JOB NO.	3541.01
DRAWN	CMS
CHECKED	TJB
CAD	-

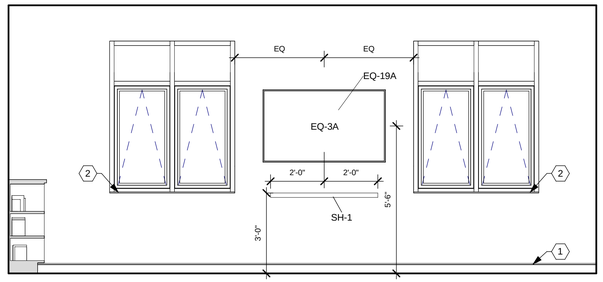
TITLE
ENLARGED PLAN & INTERIOR ELEVATIONS

SHEET NO.
A7.02

4/7/2020 9:55:05 AM



B3 DAYROOM WEST WALL
3/8" = 1'-0"



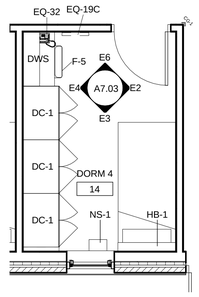
B4 DAYROOM NORTH WALL
3/8" = 1'-0"

14 DORM ROOM , TYP. - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1	TS-7	COAT HOOK, DOUBLE	REFER TO SPECIFICATIONS	CFCI
1	EQ-19C	WALL MOUNT FOR MONITOR </= 32"	MONITOR NOT INCLUDED	OFCI
1	EQ-32	TELEPHONE, DESK		OFOI
1	F-5	CHAIR, TASK		OFOI
1	F-7	BED, SUPER SINGLE		OFOI

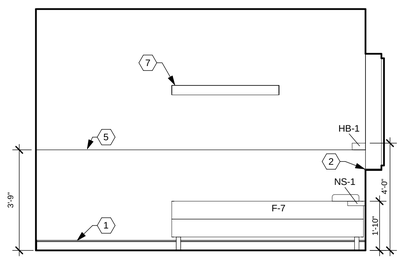
EQUIPMENT LIST TYPICAL OF (5) DORM ROOMS

14 DORM ROOM, TYPICAL - CASEWORK				
QTY.	TYPE	DESCRIPTION	COMMENTS	CAT.
3	DC-1	DORM CABINET	REFER TO CASEWORK DETAILS	CFCI
1	DWS	DORM WORK SURFACE	REFER TO CASEWORK DETAILS	CFCI
1	FST	FILLER STRIP, TALL		CFCI
1	HB-1	HEADBOARD WITH LED LIGHT	REFER TO CASEWORK DETAILS	CFCI
1	NS-1	NIGHT STAND	REFER TO CASEWORK DETAILS	CFCI

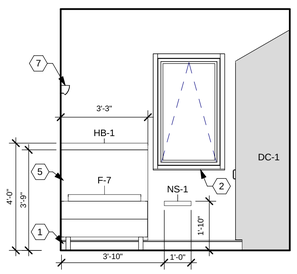
CASEWORK LIST TYPICAL OF (5) DORM ROOMS



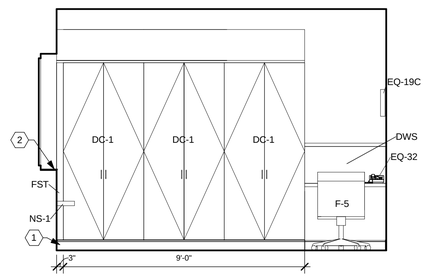
E1 ENLARGED PLAN - DORM, TYPICAL
1/4" = 1'-0"



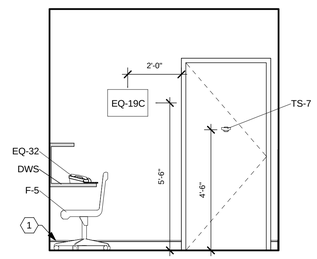
E2 TYPICAL DORM - BED WALL
3/8" = 1'-0"



E3 TYPICAL DORM - EXTERIOR WALL
3/8" = 1'-0"



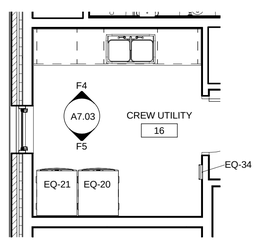
E4 TYPICAL DORM - LOCKER WALL
3/8" = 1'-0"



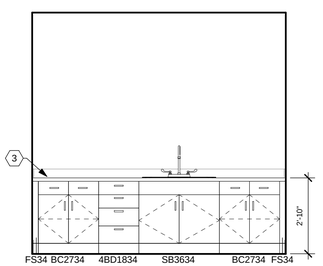
E6 TYPICAL DORM - CORRIDOR WALL
3/8" = 1'-0"

16 CREW UTILITY ROOM - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1	EQ-20	CLOTHES WASHER		OFCI
1	EQ-21	CLOTHES DRYER		OFCI
1	EQ-34	WALL CLOCK	72" A.F.F.	OFCI

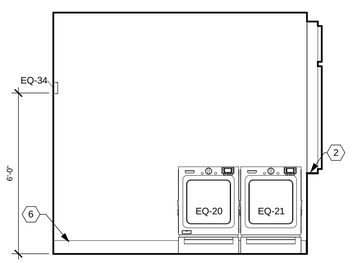
16 CREW UTILITY ROOM, TYPICAL - CASEWORK				
QTY.	TYPE	DESCRIPTION	COMMENTS	CAT.
1	4BD1834	CAB. TYPE - 4BD, 18"x 34"	REFER TO CASEWORK DETAILS	CFCI
2	BC2734	CAB. TYPE - BC, 27"x 34"	REFER TO CASEWORK DETAILS	CFCI
1	CTR-PL	COUNTER, PLASTIC LAMINATE	REFER TO CONST. NOTES	CFCI
2	FS34	FILLER STRIP 34"		CFCI
1	SB3634	CAB. TYPE - SB, 36"x 34"	REFER TO CASEWORK DETAILS	CFCI



F2 ENLARGED PLAN - CREW UTILITY
1/4" = 1'-0"



F4 CREW UTILITY - EAST WALL
3/8" = 1'-0"



F5 CREW UTILITY - WEST WALL
3/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 RUBBER BASE (RB-1).

2 WINDOW SILL (SSF-1).

3 1 1/2" PLASTIC LAMINATE (PL-2) COUNTERTOP WITH MATCHING PVC EDGING. 4" BACK & SIDE SPLASHES WHERE COUNTER ABUTS WALL.

4 1 1/2" PLASTIC LAMINATE (PL-2) COUNTERTOP WITH MATCHING PVC EDGING.

5 VINYL WALL PROTECTION (VWP-2).

6 RUBBER BASE (RB-3).

7 LIGHT FIXTURE, WALL MOUNT. REFER TO ELETRICAL DRAWINGS.

GENERAL NOTES

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C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.

D. REFER TO ELEVATIONS ON SHEET A0.01 FOR TOILET ROOM ACCESSORY MOUNTING HEIGHTS AND CLEARANCES.

E. "CG" INDICATES CORNER GUARD. REFER TO INTERIOR DETAILS FOR MORE INFORMATION.

F. ALL COUNTERTOPS AND WORK SURFACES TO HAVE BACK AND SIDE SPLASHES WHEREVER THE SURFACE ABUTS A WALL.

G. MATCHING SCRIBE STRIPS TO BE PROVIDED TO FILL GAPS AND IRREGULARITIES WHERE THE EDGE OF CABINETS AND LOCKERS MEET WALLS. FILLER STRIPS ALSO TO BE PROVIDED AT CABINETRY AND LOCKER CORNERS TO FILL ANY GAPS LEFT TO ALLOW DOORS AND DRAWERS TO FUNCTION PROPERLY.

H. DIMENSIONS ARE FROM FACE OF GYP. BD. TO FACE OF GYP. BD.

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ISSUE:

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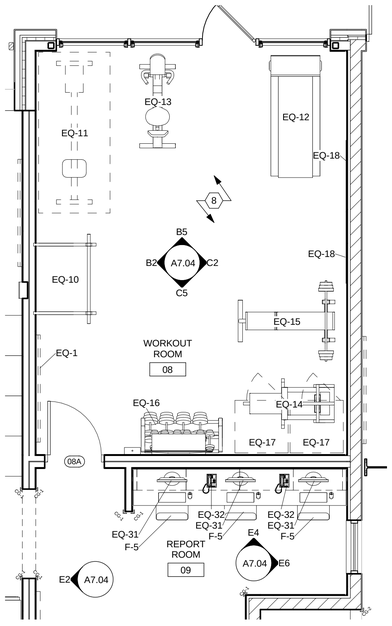
DATE	04/03/2020
JOB NO.	3541.01
DRAWN	CMS
CHECKED	TJB
CAD	-

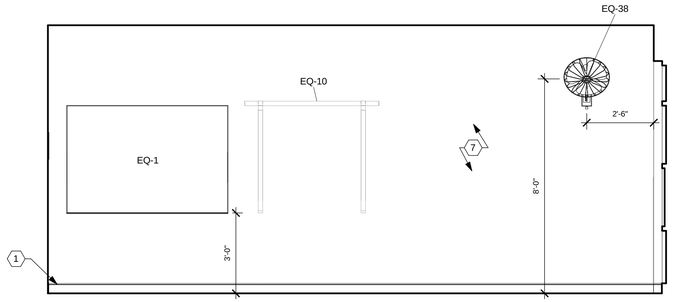
TITLE
ENLARGED PLANS & INTERIOR ELEVATIONS

SHEET NO.
A7.03

4/7/2020 9:55:19 AM

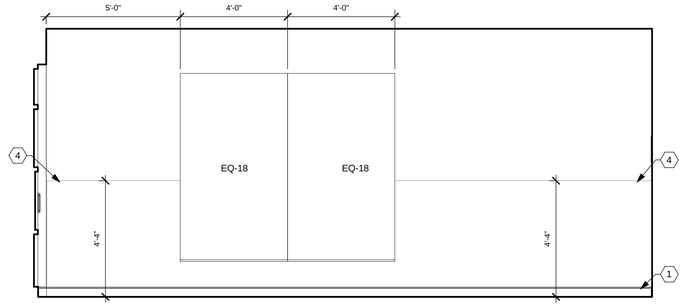


C1 WORK-OUT AND REPORT ROOMS
1/4" = 1'-0"

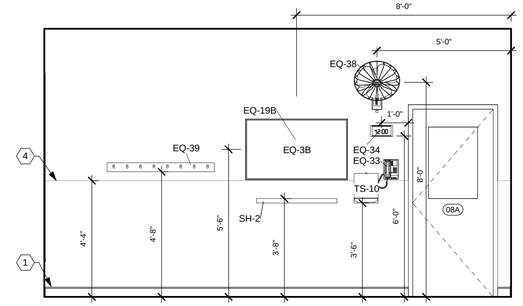


B2 WORKOUT ROOM - NORTH WALL
3/8" = 1'-0"

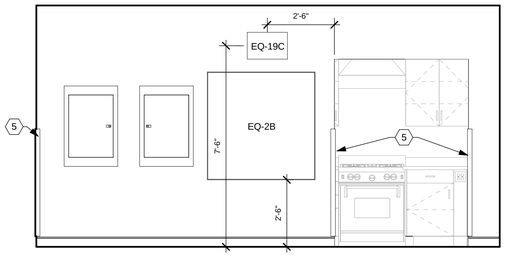
B5 WORKOUT ROOM - EAST WALL
3/8" = 1'-0"



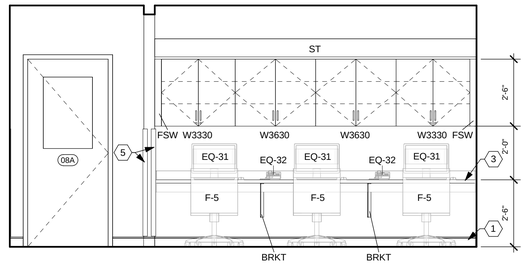
C2 WORKOUT ROOM - SOUTH WALL
3/8" = 1'-0"



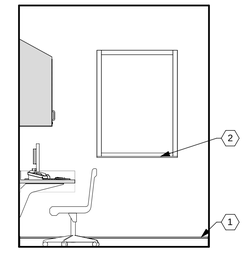
C5 WORKOUT ROOM - WEST WALL
3/8" = 1'-0"



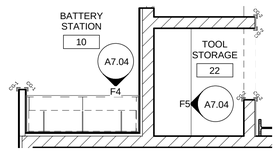
E2 CORRIDOR - NORTH
3/8" = 1'-0"



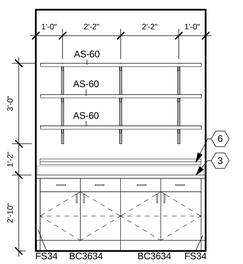
E4 REPORT ROOM - EAST WALL
3/8" = 1'-0"



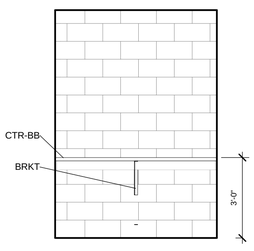
E6 REPORT ROOM - SOUTH WALL
3/8" = 1'-0"



F3 ENLARGED PLAN - BATTERY STATION / TOOL STORAGE
1/4" = 1'-0"



F4 BATTERY STATION - WEST WALL
3/8" = 1'-0"



F5 TOOL STORAGE - NORTH WALL
3/8" = 1'-0"

08 WORKOUT ROOM - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
2	EQ-18	MIRROR, WALL - 48"x 84"		CFCI
2	EQ-38	FAN, WALL MOUNT	REFER TO ELECTRICAL DRAWING AND SPECIFICATIONS	CFCI
1	EQ-1	DRY ERASE BOARD - 6'		OFCI
1	EQ-3B	MONITOR - 50"	WITH WALL MOUNT	OFCI
1	EQ-10	GYM EQ. - POWER RACK		OFCI
1	EQ-19B	WALL MOUNT FOR 50" MONITOR		OFCI
1	EQ-34	WALL CLOCK		OFCI
1	EQ-39	GYM EQ. - JUMP ROPE RACK		OFCI
1	TS-10	PAPER TOWEL DISPENSER		OFCI
1	EQ-11	GYM EQ. - ROWER		OFOI
1	EQ-12	GYM EQ. - TREADMILL		OFOI
1	EQ-13	GYM EQ. - STATIONARY BIKE		OFOI
1	EQ-14	GYM EQ. - PULL DOWN MACHINE		OFOI
1	EQ-15	GYM EQ. - WEIGHT BENCH		OFOI
1	EQ-16	GYM EQ. - DUMB BELL RACK		OFOI
2	EQ-17	SAUNA, ELECTRIC	FUTURE	OFOI
1	EQ-33	TELEPHONE, WALL		OFOI

08 WORK-OUT ROOM - CASEWORK				
QTY.	TYPE	DESCRIPTION	COMMENTS	CAT.
1	SH-2	SHELF, 14" x 36"		CFCI

09 REPORT ROOM - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
3	EQ-31	COMPUTER		OFOI
2	EQ-32	TELEPHONE, DESK		OFOI
3	F-5	CHAIR, TASK		OFOI

09 REPORT ROOM - CASEWORK				
QTY.	TYPE	DESCRIPTION	COMMENTS	CAT.
2	BRKT	BRACKET, COUNTER SUPPORT	4'-0" O.C. MAX. REFER TO SPECIFICATIONS	CFCI
1	CTR-PL	COUNTER, PLASTIC LAMINATE	REFER TO CONST. NOTES	CFCI
2	FSW	FILLER STRIP, WALL CABINET		CFCI
1	ST	SLOPED TOP	REFER TO CASEWORK DETAILS	CFCI
2	W3330	CAB. TYPE - W, 33"x 30"	REFER TO CASEWORK DETAILS	CFCI
2	W3630	CAB. TYPE - W, 36"x 30"	REFER TO CASEWORK DETAILS	CFCI

10 BATTERY STATION - CASEWORK				
QTY.	TYPE	DESCRIPTION	COMMENTS	CAT.
3	AS-60	SHELF TYPE (AS) 14"x 60", PLASTIC LAMINATE (PL-1) ON HD STANDARDS AND BRACKETS	REFER TO CASEWORK DETAILS	CFCI
2	BC3634	CAB. TYPE - BC, 36"x 34"	REFER TO CASEWORK DETAILS	CFCI
1	CTR-PL	COUNTER, PLASTIC LAMINATE	REFER TO CONST. NOTES	CFCI
2	FS34	FILLER STRIP 34"		CFCI

C2 CORRIDOR - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1	EQ-2B	BULLETIN BOARD - 4'		OFCI
1	EQ-19C	WALL MOUNT FOR MONITOR </= 32"		OFCI

22 TOOL STORAGE, TYPICAL - CASEWORK				
QTY.	TYPE	DESCRIPTION	COMMENTS	CAT.
1	BRKT	BRACKET, COUNTER SUPPORT		CFCI
1	CTR-BB	COUNTER, BUTCHER BLOCK	WALL CLEATS, BACK AND SIDES	CFCI

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 RUBBER BASE (RB-1).

2 WINDOW SILL (SSF-1).

3 1 1/2" PLASTIC LAMINATE (PL-2) COUNTERTOP WITH MATCHING PVC EDGING. 4" BACK & SIDE SPLASHES WHERE COUNTER ABUTS WALL. WALL CLEATS AND SUPPORT BRACKETS @ 4'-0" O.C. MAX. WHEN NO BASE CABINETS ARE PRESENT.

4 VINYL WALL PROTECTION (VWP-1).

5 CORNER GUARD (CG-1). 4'-0" TALL. MOUNT ABOVE BASE.

6 (2) POWER STRIP OUTLETS. REFER TO ELECTRICAL DRAWINGS.

7 VINYL WALL PROTECTION (VWP-1) FROM 4" A.F.F. UP TO 10'-4" A.F.F. THIS ENTIRE WALL.

8 COORDINATE FINAL PLACEMENT OF WALL MOUNTED ITEMS WITH OWNER PRIOR TO INSTALLING BLOCKING.

GENERAL NOTES

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B. ELECTRICAL INFORMATION SHOWN FOR REFERNCE ONLY. REFER TO ELECTRICAL PLANS FOR DETAILS.

C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.

D. REFER TO ELEVATIONS ON SHEET A0.01 FOR TOILET ROOM ACCESSORY MOUNTING HEIGHTS AND CLEARANCES.

E. "CG" INDICATES CORNER GUARD. REFER TO INTERIOR DETAILS FOR MORE INFORMATION.

F. ALL COUNTERTOPS AND WORK SURFACES TO HAVE BACK AND SIDE SPLASHES WHEREVER THE SURFACE ABUTS A WALL.

G. MATCHING SCRIBE STRIPS TO BE PROVIDED TO FILL GAPS AND IRREGULARITIES WHERE THE EDGE OF CABINETS AND LOCKERS MEET WALLS. FILLER STRIPS ALSO TO BE PROVIDED AT CABINETRY AND LOCKER CORNERS TO FILL ANY GAPS LEFT TO ALLOW DOORS AND DRAWERS TO FUNCTION PROPERLY.

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STATE OF OHIO TIMOTHY J. BERNERT REGISTERED ARCHITECT 12305

Timothy J. Bernert, License #12305
Expiration Date 12/31/2021

Beavercreek Township
Fire Station No. 65
1777 Trebein Road, Beavercreek Township, Ohio 45385

ISSUE:	
NO. DATE	DESCRIPTION
04/03/2020	FOR CONSTRUCTION

DATE	04/03/2020
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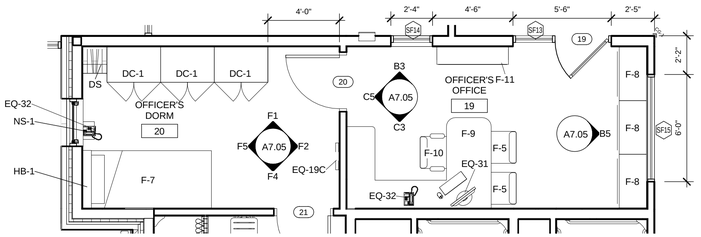
DRAWN	CMS
CHECKED	TJB
CAD	-

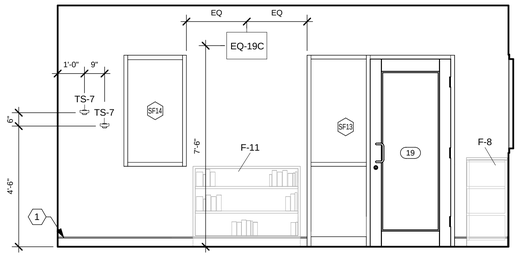
TITLE
ENLARGED PLANS & INTERIOR ELEVATIONS

SHEET NO.
A7.04

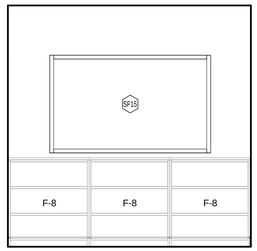
4/7/2020 9:55:15 AM



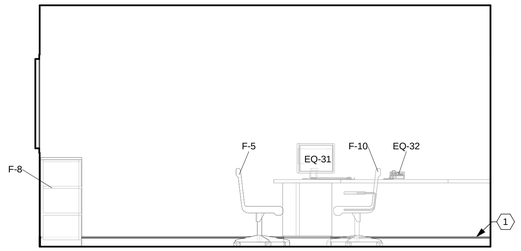
B1 ENLARGED PLAN - OFFICER'S OFFICE AND DORM
1/4" = 1'-0"



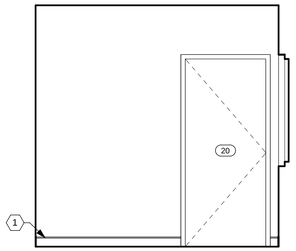
B3 OFFICER'S OFFICE - EAST WALL
3/8" = 1'-0"



B5 OFFICER'S OFFICE - SOUTH WALL
3/8" = 1'-0"



C3 OFFICER'S OFFICE - WEST WALL
3/8" = 1'-0"

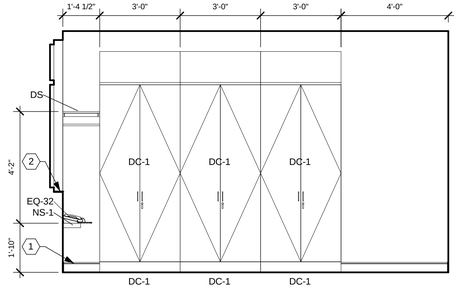


C5 OFFICER'S OFFICE - NORTH WALL
3/8" = 1'-0"

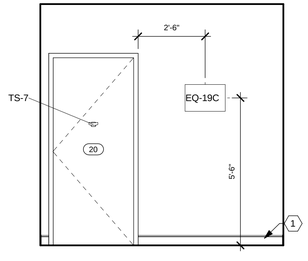
19 OFFICER'S OFFICE - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
2	TS-7	COAT HOOK, DOUBLE	REFER TO SPECIFICATIONS	CFCI
1	EQ-19C	WALL MOUNT FOR MONITOR </= 32"		OFCI
1	EQ-31	COMPUTER		OFOI
1	EQ-32	TELEPHONE, DESK		OFOI
2	F-5	CHAIR, TASK		OFOI
3	F-8	LATERAL FILE, 3-DRAWER' 36" W		OFOI
1	F-9	DESK ASSEMBLY		OFOI
1	F-10	CHAIRS, TASK W/ ARMS		OFOI
1	F-11	BOOK SHELF		OFOI

20 OFFICER'S DORM - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1	TS-7	COAT HOOK, DOUBLE	REFER TO SPECIFICATIONS	CFCI
1	EQ-19C	WALL MOUNT FOR MONITOR </= 32"	NO MONITOR	OFCI
1	EQ-32	TELEPHONE, DESK		OFOI
1	F-7	BED, SUPER SINGLE		OFOI

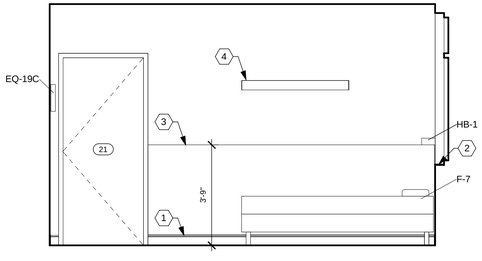
20 OFFICER'S DORM - CASEWORK				
QTY.	TYPE	DESCRIPTION	COMMENTS	CAT.
3	DC-1	DORM CABINET	REFER TO CASEWORK DETAILS	CFCI
1	DS	DORM SHELF	REFER TO CASEWORK DETAILS	CFCI
1	HB-1	HEADBOARD WITH LED LIGHT	REFER TO CASEWORK DETAILS	CFCI
1	NS-1	NIGHT STAND	REFER TO CASEWORK DETAILS	CFCI



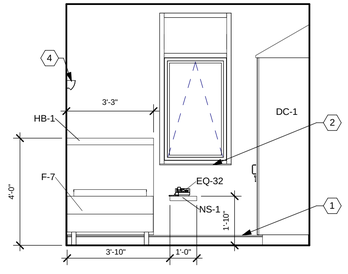
F1 OFFICER'S DORM - EAST WALL
3/8" = 1'-0"



F2 OFFICER'S DORM - SOUTH WALL
3/8" = 1'-0"



F4 OFFICER'S DORM WEST WALL
3/8" = 1'-0"



F5 OFFICER'S DORM - NORTH WALL
3/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 RUBBER BASE (RB-1).

2 WINDOW SILL (SSF-1).

3 VINYL WALL PROTECTION (VWP-2).

4 LIGHT FIXTURE, WALL MOUNT. REFER TO ELETRICAL DRAWINGS.

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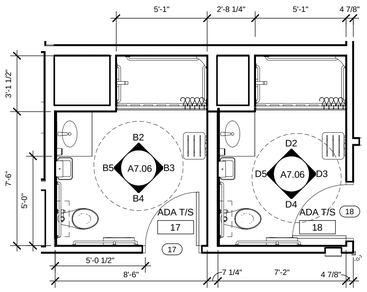
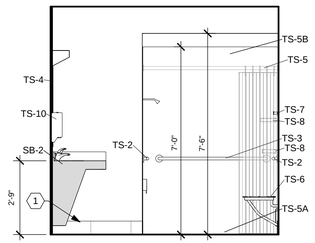
TITLE
ENLARGED PLANS & INTERIOR ELEVATIONS

SHEET NO.
A7.05

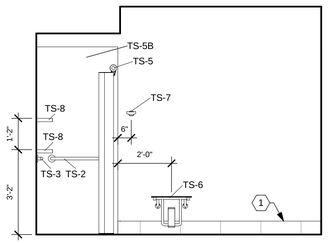
4/7/2020 9:55:29 AM



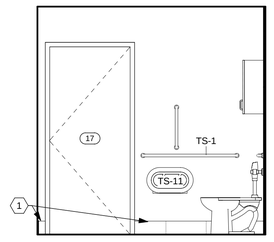
B1 ENLARGED PLAN - ADA SHOWER ROOMS
1/4" = 1'-0"



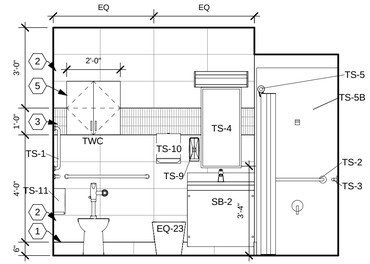
B2 ADA T/S 17 - EAST WALL
3/8" = 1'-0"



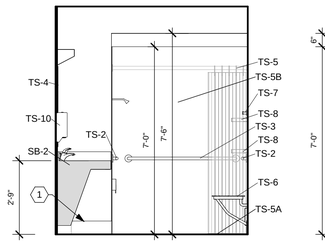
B3 ADA T/S 17 - SOUTH WALL
3/8" = 1'-0"



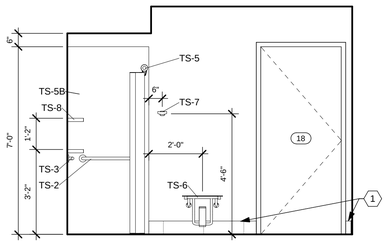
B4 ADA T/S 17 - WEST WALL
3/8" = 1'-0"



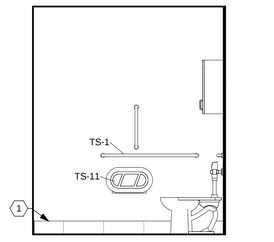
B5 ADA T/S 17 - NORTH WALL
3/8" = 1'-0"



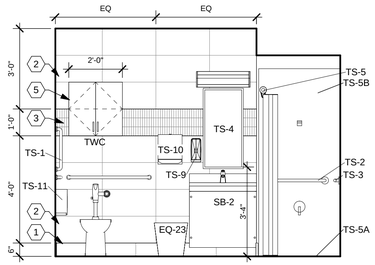
D2 ADA T/S 18 - EAST WALL
3/8" = 1'-0"



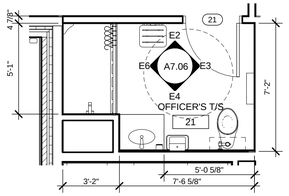
D3 ADA T/S 18 - SOUTH WALL
3/8" = 1'-0"



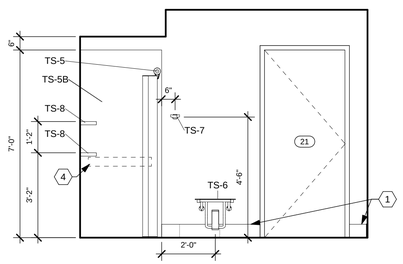
D4 ADA T/S 18 - WEST WALL
3/8" = 1'-0"



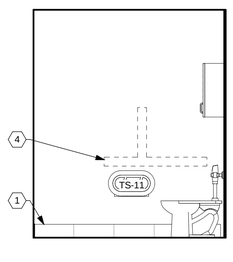
D5 ADA T/S 18 - NORTH WALL
3/8" = 1'-0"



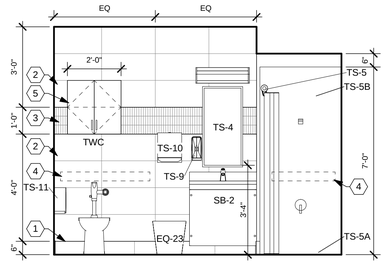
E1 ENLARGED PLAN - RM. 21 OFFICER'S SHOWER
1/4" = 1'-0"



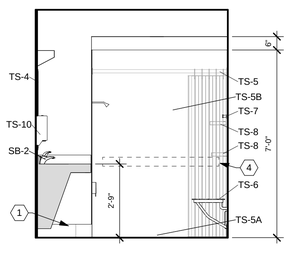
E2 OFFICER T/S 21- EAST WALL
3/8" = 1'-0"



E3 OFFICER'S T/S 21 -SOUTH WALL
3/8" = 1'-0"



E4 OFFICER'S T/S 21 - WEST WALL
3/8" = 1'-0"



E6 OFFICER'S T/S 21 - NORTH WALL
3/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 PORCELAIN TILE WALL BASE (PTWB). BRUSHED ALUMINUM SCHLUTER STRIP ON TOP EDGE WHEN NO WALL TILE EXISTS ABOVE.,

2 PORCELAIN WALL TILE (PWT-1).

3 PORCELAIN WALL TILE MOSAIC(PWTM).

4 INSTALL BLOCKING IN WALLS FOR FUTURE GRAB BARS.

5 CENTER WALL CABINET ABOVE TOILET.

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F. ALL COUNTERTOPS AND WORK SURFACES TO HAVE BACK AND SIDE SPLASHES WHEREVER THE SURFACE ABUTS A WALL.

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H. DIMENSIONS ARE FROM FACE OF GYP. BD. TO FACE OF GYP. BD.

17 ADA T/S - EQUIPMENT LIST

QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1	TS-1	GRAB BAR, STAINLESS STEEL, (3) PIEC ASSEMBLY, 1.25" DIA.	REFER TO SPECIFICATIONS	CFCI
2	TS-2	GRAB BAR, STAINLESS STEEL 24" x 1.25" DIA.	REFER TO SPECIFICATIONS	CFCI
1	TS-3	GRAB BAR, STAINLESS STEEL 48" x 1.25" DIA.	REFER TO SPECIFICATIONS	CFCI
1	TS-4	MIRROR, WALL - 18" x 36"	REFER TO SPECIFICATIONS	CFCI
1	TS-5	SHOWER ROD	REFER TO SPECIFICATIONS	CFCI
1	TS-6	SEAT, FOLDING	REFER TO SPECIFICATIONS	CFCI
1	TS-7	COAT HOOK, DOUBLE	REFER TO SPECIFICATIONS	CFCI
2	TS-8	SOAP DISH, CORNER	INPRO, ENDURANT, SOAP DISH, 5"x5", PART# DSSHPS	CFCI
1	TS-9	SOAP DISPENSER		OFCI
1	TS-10	PAPER TOWEL DISPENSER		OFCI
1	TS-11	TOILET PAPER DISPENSER		OFCI
1	EQ-23	TRASH BIN, 7 GALLON		OFOI

18 ADA T/S - EQUIPMENT LIST

QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1	TS-1	GRAB BAR, STAINLESS STEEL, (3) PIEC ASSEMBLY, 1.25" DIA.	REFER TO SPECIFICATIONS	CFCI
2	TS-2	GRAB BAR, STAINLESS STEEL 24" x 1.25" DIA.	REFER TO SPECIFICATIONS	CFCI
1	TS-3	GRAB BAR, STAINLESS STEEL 48" x 1.25" DIA.	REFER TO SPECIFICATIONS	CFCI
1	TS-4	MIRROR, WALL - 18" x 36"	REFER TO SPECIFICATIONS	CFCI
1	TS-5	SHOWER ROD	REFER TO SPECIFICATIONS	CFCI
1	TS-6	SEAT, FOLDING	REFER TO SPECIFICATIONS	CFCI
1	TS-7	COAT HOOK, DOUBLE	REFER TO SPECIFICATIONS	CFCI
2	TS-8	SOAP DISH, CORNER	INPRO, ENDURANT, SOAP DISH, 5"x5", PART# DSSHPS	CFCI
1	TS-9	SOAP DISPENSER		OFCI
1	TS-10	PAPER TOWEL DISPENSER		OFCI
1	TS-11	TOILET PAPER DISPENSER		OFCI
1	EQ-23	TRASH BIN, 7 GALLON		OFOI

21 OFFICER'S T/S - EQUIPMENT LIST

QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1	TS-4	MIRROR, WALL - 18" x 36"	REFER TO SPECIFICATIONS	CFCI
1	TS-5	SHOWER ROD	REFER TO SPECIFICATIONS	CFCI
1	TS-6	SEAT, FOLDING	REFER TO SPECIFICATIONS	CFCI
1	TS-7	COAT HOOK, DOUBLE	REFER TO SPECIFICATIONS	CFCI
2	TS-8	SOAP DISH, CORNER	INPRO, ENDURANT, SOAP DISH, 5"x5", PART# DSSHPS	CFCI
1	TS-9	SOAP DISPENSER		OFCI
1	TS-10	PAPER TOWEL DISPENSER		OFCI
1	TS-11	TOILET PAPER DISPENSER		OFCI
1	EQ-23	TRASH BIN, 7 GALLON		OFOI

17 ADA T/S - CASEWORK

QTY.	TYPE	DESCRIPTION	COMMENTS	CAT.
1	SB-2	ADA LAVATORY SINK BASE	REFER TO CASEWORK DETAILS	CFCI
1	TS-5A	SOLID SURFACE ADA SHOWER RECEPTOR WITH LINEAR DRAIN. 37"x61 1/4"	REFER TO SPECIFICATIONS AND DETAILS ON SHEET A0.05.	CFCI
1	TS-5B	SOLID SURFACE SHOWER WALL PANELS	REFER TO SPECIFICATIONS AND DRAWINGS	CFCI
1	TWC	CAB. TYPE - TWC, 24" x 24"	REFER TO CASEWORK DETAILS	CFCI

18 ADA T/S - CASEWORK

QTY.	TYPE	DESCRIPTION	COMMENTS	CAT.
1	SB-2	ADA LAVATORY SINK BASE	REFER TO CASEWORK DETAILS	CFCI
1	TS-5A	SOLID SURFACE ADA SHOWER RECEPTOR WITH LINEAR DRAIN. 37"x61 1/4"	REFER TO SPECIFICATIONS AND DETAILS ON SHEET A0.05.	CFCI
1	TS-5B	SOLID SURFACE SHOWER WALL PANELS	REFER TO SPECIFICATIONS AND DRAWINGS	CFCI
1	TWC	CAB. TYPE - TWC, 24" x 24"	REFER TO CASEWORK DETAILS	CFCI

21 OFFICER'S T/S - CASEWORK

QTY.	TYPE	DESCRIPTION	COMMENTS	CAT.
1	SB-2	ADA LAVATORY SINK BASE	REFER TO CASEWORK DETAILS	CFCI
1	TS-5A	SOLID SURFACE ADA SHOWER RECEPTOR WITH LINEAR DRAIN. 37"x61 1/4"	REFER TO SPECIFICATIONS AND DETAILS ON SHEET A0.05.	CFCI
1	TS-5B	SOLID SURFACE SHOWER WALL PANELS	REFER TO SPECIFICATIONS AND DRAWINGS	CFCI
1	TWC	CAB. TYPE - TWC, 24" x 24"	REFER TO CASEWORK DETAILS	CFCI

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Fire Station No. 65
1777 Trebein Road, Beavercreek Township, Ohio 45385

ISSUE:

NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION

DATE	04/03/2020
JOB NO.	3541.01
DRAWN	CMS
CHECKED	TJB
CAD	-

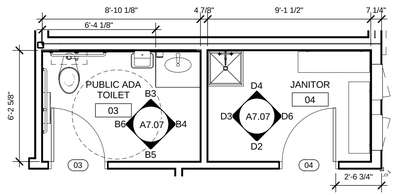
TITLE
ENLARGED PLANS & INTERIOR ELEVATIONS SHOWER ROOMS

SHEET NO.
A7.06

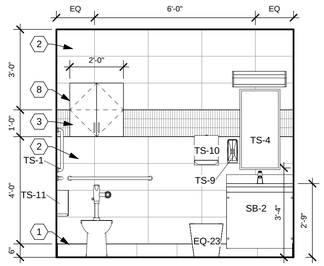
4/7/2020 9:55:29 AM

03 ADA TOILET - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1	TS-1	GRAB BAR, STAINLESS STEEL, (3) PIEC ASSEMBLY, 1.25" DIA.	REFER TO SPECIFICATIONS	CFCI
1	TS-4	MIRROR, WALL - 18" x 36"	REFER TO SPECIFICATIONS	CFCI
1	TS-7	COAT HOOK, DOUBLE	REFER TO SPECIFICATIONS	CFCI
1	TS-9	SOAP DISPENSER		OFCI
1	TS-10	PAPER TOWEL DISPENSER		OFCI
1	TS-11	TOILET PAPER DISPENSER		OFCI
1	EQ-23	TRASH BIN, 7 GALLON		OFOI

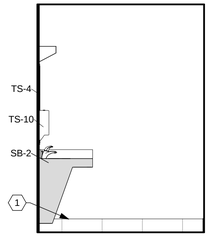
03 ADA TOILET - CASEWORK				
QTY.	TYPE	DESCRIPTION	COMMENTS	CAT.
1	SB-2	ADA LAVATORY SINK BASE	REFER TO CASEWORK DETAILS	CFCI
1	TWC	CAB. TYPE - TWC, 24" x 24"	REFER TO CASEWORK DETAILS	CFCI



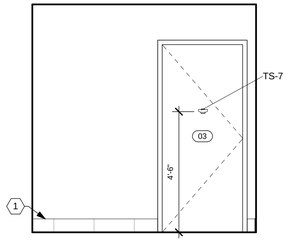
B1 ENLARGED PLAN - PUBLIC ADA TOILET / JANITOR
1/4" = 1'-0"



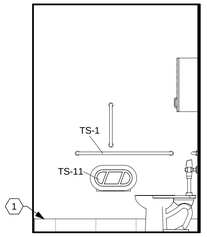
B3 ADA TOILET O3 - EAST WALL
3/8" = 1'-0"



B4 ADA TOILET 03 - SOUTH WALL
3/8" = 1'-0"



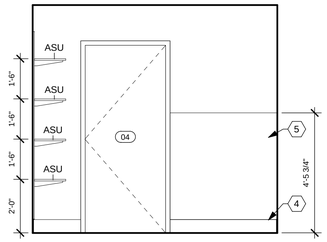
B5 ADA TOILET 03 - WEST WALL
3/8" = 1'-0"



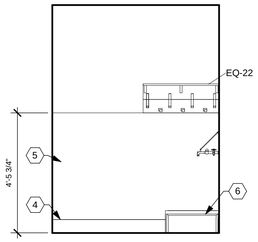
B6 ADA TOILET 03 - NORTH WALL
3/8" = 1'-0"

04 JANITOR CLOSET - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1	EQ-22	MOP HANGER WITH OVERSHELF	REFER TO SPECIFICATIONS	CFCI

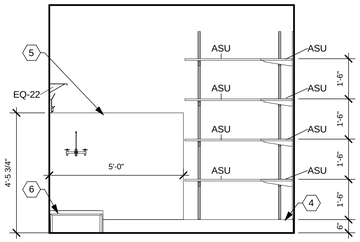
04 JANITOR CLOSET - CASEWORK				
QTY.	TYPE	DESCRIPTION	COMMENTS	CAT.
8	ASU	SHELF, UTILITY 3/4"x 14"x 48", MELAMINE ON HD STANDARDS AND BRACKETS	REFER TO CASEWORK DETAILS	CFCI



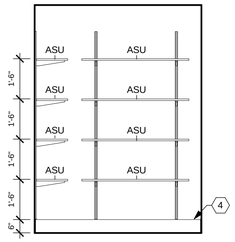
D2 JANITOR CLOSET 04 -WEST WALL
3/8" = 1'-0"



D3 JANITOR CLOSET 04 - NORTH WALL
3/8" = 1'-0"



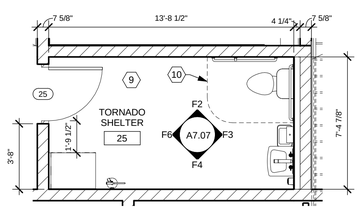
D4 JANITOR CLOSET 04 - EAST WALL
3/8" = 1'-0"



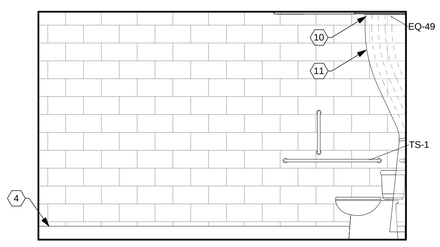
D6 JANITOR CLOSET 04 - SOUTH WALL
3/8" = 1'-0"

25 TORNADO SHELTER - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1				
1	EQ-49	CUBICAL CURTAIN & TRACK	REFER TO SHEET A7.07	CFCI
1	TS-1	GRAB BAR, STAINLESS STEEL, (3) PIEC ASSEMBLY, 1.25" DIA.	REFER TO SPECIFICATIONS	CFCI
1	TS-4	MIRROR, WALL - 18" x 36"	REFER TO SPECIFICATIONS	CFCI
1	EQ-46	FIRE EXTINGUISHER, WALL MOUNT	REFER TO SHEET A1.11	OFCI
1	TS-9	SOAP DISPENSER		OFCI
1	TS-10	PAPER TOWEL DISPENSER		OFCI

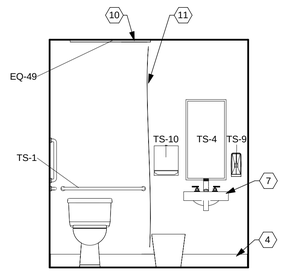
25 TORNADO SHELTER - CASEWORK				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1	FST	FILLER STRIP, TALL		CFCI
1	TC3084	CAB. TYPE - TC, 30"x 84"	REFER TO CASEWORK DETAILS	CFCI



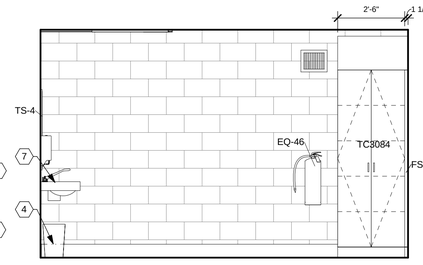
F1 TORNADO SHELTER / CREW ADA TOILET RM. 25
1/4" = 1'-0"



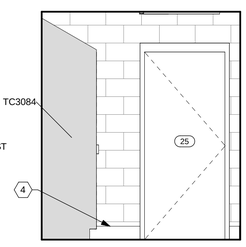
F2 TORNADO SHELTER/CREW ADA TOILET RM. 25 - EAST WALL
3/8" = 1'-0"



F3 TORNADO SHELTER/CREW ADA TOILET RM. 25 - SOUTH WALL
3/8" = 1'-0"



F4 TORNADO SHELTER/CREW ADA TOILET RM. 25 - WEST WALL
3/8" = 1'-0"



F6 TORNADO SHELTER/CREW ADA TOILET RM. 25 - NORTH WALL
3/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 PORCELAIN TILE WALL BASE (PTWB). BRUSHED ALUMINUM SCHLUTER STRIP ON TOP EDGE WHEN NO WALL TILE EXISTS ABOVE.,

2 PORCELAIN WALL TILE (PWT-1).

3 PORCELAIN WALL TILE MOSAIC(PWTM).

4 RUBBER BASE (RB-3).

5 VINYL WALL PROTECTION (VWP-1).

6 MOP SINK. REFER TO PLUMBING DRAWINGS.

7 SINK. REFER TO PLUMBING DRAWINGS.

8 CENTER WALL CABINET ABOVE TOILET.

9 REFER TO SHEET G0.02 FOR TORNADO SHELTER SPECIFIC INFORMATION, SIGNAGE, AND DETAILS FOR ROOM 25.

10 CUBICAL CURTAIN TRACK & TOP MESH. BASIS OF DESIGN: INPRO CORPORATION, FORMATRAC. PVC CURTAIN TRACK: NOT LESS THAN 1-1/4" WIDE x 15/16" HIGH. CURTAIN GROMMETS: TWO-PIECE, ROLLED EDGE, RUSTPROOF, NICKEL PLATED BRASS; SPACED NOT MORE THAN 6" O.C.; MACHINED INTO TOP HEM. MESH TOP: NOT LESS THAN 22" HIGH MESH TOP OF No. 50 NYLON MESH. CURTAIN TIEBACK: NICKEL-PLATED BRASS CHAIN; ONE AT WET WALL.

11 CUBICAL CURTAIN (CC). REFER TO MATERIAL LEGEND.

GENERAL NOTES

A. REFER TO ROOM FINISH SCHEDULE, MATERIAL LEGEND, AND FINISHES PLANS FOR FINISH AND MATERIAL DETAILS.

B. ELECTRICAL INFORMATION SHOWN FOR REFERNCE ONLY. REFER TO ELECTRICAL PLANS FOR DETAILS.

C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.

D. REFER TO ELEVATIONS ON SHEET A0.01 FOR TOILET ROOM ACCESSORY MOUNTING HEIGHTS AND CLEARANCES.

E. "CG" INDICATES CORNER GUARD. REFER TO INTERIOR DETAILS FOR MORE INFORMATION.

F. ALL COUNTERTOPS AND WORK SURFACES TO HAVE BACK AND SIDE SPLASHES WHEREVER THE SURFACE ABUTS A WALL.

G. MATCHING SCRIBE STRIPS TO BE PROVIDED TO FILL GAPS AND IRREGULARITIES WHERE THE EDGE OF CABINETS AND LOCKERS MEET WALLS. FILLER STRIPS ALSO TO BE PROVIDED AT CABINETRY AND LOCKER CORNERS TO FILL ANY GAPS LEFT TO ALLOW DOORS AND DRAWERS TO FUNCTION PROPERLY.

H. DIMENSIONS ARE FROM FACE OF GYP. BD. TO FACE OF GYP. BD.

App Architecture
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STATE OF OHIO TIMOTHY J. BERNERT REGISTERED ARCHITECT 12305

Timothy J. Bernert, License #12305
Expiration Date 12/31/2021

Beavercreek Township

Fire Station No. 65

1777 Trebein Road, Beavercreek Township, Ohio 45385

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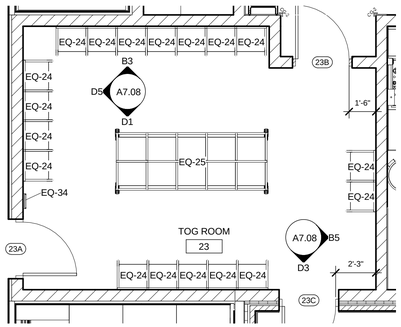
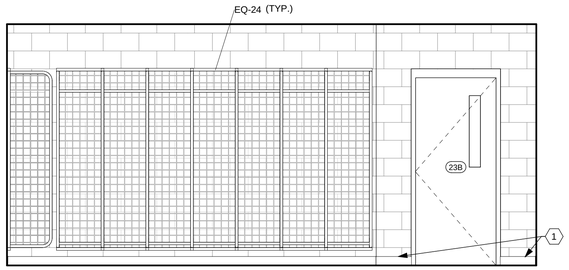
TITLE
ENLARGED PLANS & INTERIOR ELEVATIONS

SHEET NO.
A7.07

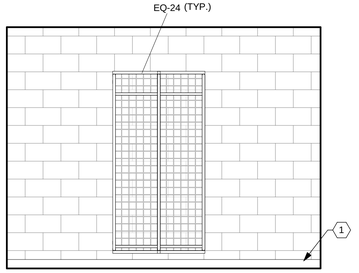
4/7/2020 9:55:39 AM



B1 ENLARGED PLAN - RM. 23 TOG ROOM
1/4" = 1'-0"

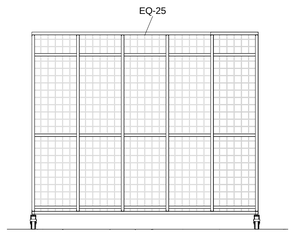


B3 TOG ROOM 23 - EAST WALL
3/8" = 1'-0"

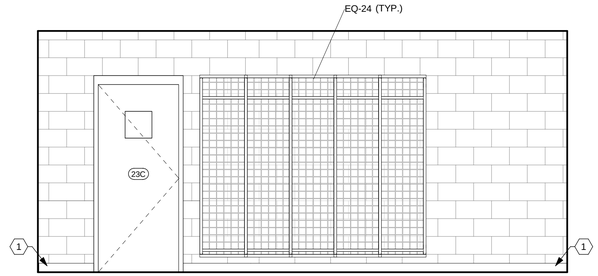


B5 TOG ROOM 23 - SOUTH WALL
3/8" = 1'-0"

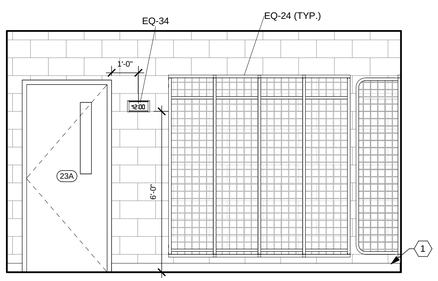
23 TOG ROOM - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
18	EQ-24	TURN OUT GEAR LOCKER, WALL MOUNT, OPEN		OFCI
1	EQ-25	TURN OUT GEAR LOCKER, FLOOR MOUNT, DIVIDED, (10) PACK		OFCI
1	EQ-34	WALL CLOCK		OFCI



D1 TOG ROOM 23 - CENTER LOCKERS
3/8" = 1'-0"



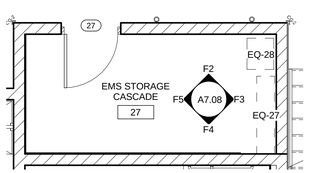
D3 TOG ROOM 23 - WEST WALL
3/8" = 1'-0"



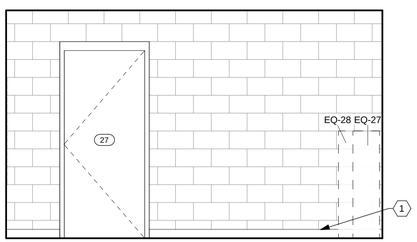
D5 TOG ROOM 23 - NORTH WALL
3/8" = 1'-0"

27 EMS STORAGE / CASCADE - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1	EQ-27	OXYGEN CASCADE WITH WALL STRAP	CONTRACTOR TO INSTALL STRAP ONLY	OFCI
1	EQ-28	OXYGEN FILL STATION		OFOI

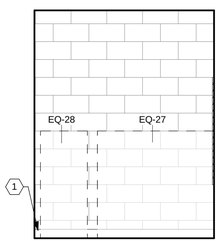
27 EMS STORAGE - CASEWORK				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
5	SW-1	SLAT WALL, 48"x 48"x 3/4"	REFER TO CASEWORK DETAILS	CFCI



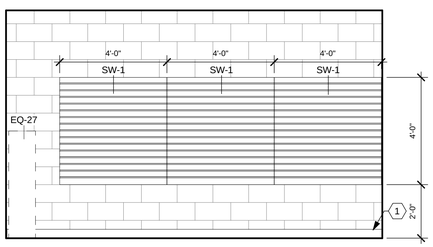
F1 ENLARGED PLAN - RM. 27 EMS STORAGE
1/4" = 1'-0"



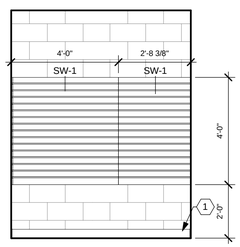
F2 EMS STORAGE / CASCADE 27 - EAST WALL
3/8" = 1'-0"



F3 EMS STORAGE / CASCADE 27 -SOUTH WALL
3/8" = 1'-0"



F4 EMS STORAGE / CASCADE 27 - WEST WALL
3/8" = 1'-0"



F5 EMS STORAGE / CASCADE 27 - NORTH WALL
3/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 RUBBER BASE (RB-2).

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H. DIMENSIONS ARE FROM FACE OF GYP. BD. TO FACE OF GYP. BD.

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STATE OF OHIO TIMOTHY J. BERNERT REGISTERED ARCHITECT 12305

Timothy J. Bernert, License #12305
Expiration Date 12/31/2021

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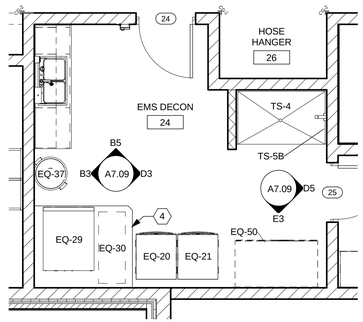
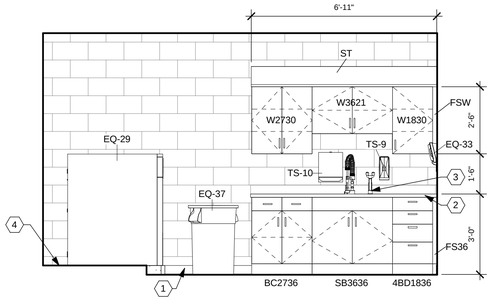
SHEET NO.
A7.08

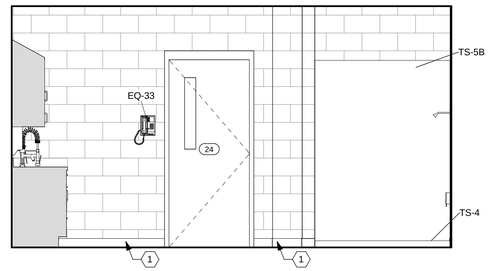
4/7/2020 9:55:35 AM



B1 ENLARGED PLAN - RM. 24 EMS DECON ROOM
1/4" = 1'-0"

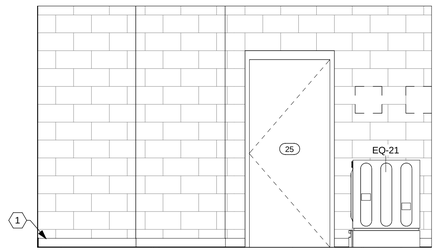


B3 EMS DECON 24 - NORTH WALL
3/8" = 1'-0"

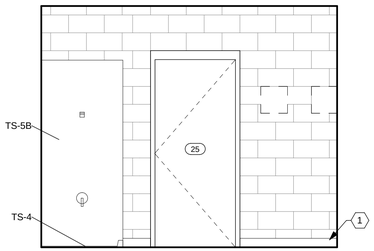


B5 EMS DECON 24 - EAST WALL
3/8" = 1'-0"

24 EMS DECON - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1	EQ-30	LINT TRAP	REFER TO PLUMBING DRAWINGS/SPECS	CFCI
1	EQ-50	FUTURE GEAR DRYER	FOR REFERENCE ONLY	NIC
1	EQ-20	CLOTHES WASHER		OFCI
1	EQ-21	CLOTHES DRYER		OFCI
1	EQ-29	TOG GEAR WASHER		OFCI
4	EQ-47	GEAR HANGER	COORDINATE WITH OWNER	OFCI
1	TS-9	SOAP DISPENSER		OFCI
1	TS-10	PAPER TOWEL DISPENSER		OFCI
1	EQ-33	TELEPHONE, WALL		OFOI
1	EQ-37	BIOHAZARD CAN, 32 GALLON		OFOI

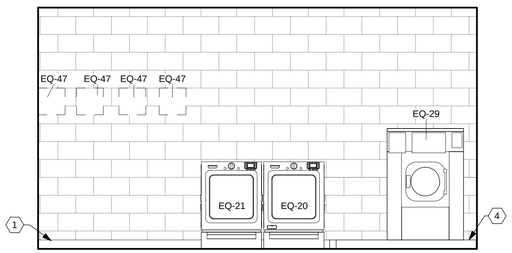


D3 EMS DECON 24 -SOUTH WALL 1
3/8" = 1'-0"



D5 EMS DECON 24 -SOUTH WALL 2
3/8" = 1'-0"

24 EMS DECON - CASEWORK				
QTY.	TYPE	DESCRIPTION	COMMENTS	CAT.
1	4BD1836	CAB. TYPE - 4BD, 18"x 36"	REFER TO CASEWORK DETAILS	CFCI
1	BC2736	CAB. TYPE - BC, 27"x 36"	REFER TO CASEWORK DETAILS	CFCI
1	CTR-SS	STAINLESS STEEL COUNTER WITH INTEGRAL SINK BOWLS AND BACKSPLASH	REFER TO CONST. NOTES AND SPECIFICATIONS	CFCI
1	FS36	FILLER STRIP 36"		CFCI
1	FSW	FILLER STRIP, WALL CABINET		CFCI
1	SB3636	CAB. TYPE - SB1, 36"x 36"	REFER TO CASEWORK DETAILS	CFCI
1	ST	SLOPED TOP	REFER TO CASEWORK DETAILS	CFCI
1	TS-4	SHOWER BASE, 36" x 60"	REFER TO INTERIOR DETAILS ON A0.05.	CFCI
1	TS-5B	SOLID SURFACE SHOWER WALL PANELS	REFER TO SPECIFICATIONS AND DRAWINGS	CFCI
1	W1830	CAB. TYPE - W, 18"x 30"	REFER TO CASEWORK DETAILS	CFCI
1	W2730	CAB. TYPE - W, 27"x 30"	REFER TO CASEWORK DETAILS	CFCI
1	W3621	CAB. TYPE - W, 36"x 21"	REFER TO CASEWORK DETAILS	CFCI



E3 EMS DECON 24 - WEST WALL
3/8" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 RUBBER BASE (RB-3).

2 1 1/2" STAINLESS STEEL COUNTERTOP WITH INTEGRAL 2-BOWL SINK AND 4" BACK & SIDE SPLASHES WHERE COUNTER ABUTS WALL.

3 EYE-WASH. REFER TO PLUMBING DRAWINGS.

4 RAISED CONCRETE FLOOR SLAB. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.

GENERAL NOTES

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B. ELECTRICAL INFORMATION SHOWN FOR REFERNCE ONLY. REFER TO ELECTRICAL PLANS FOR DETAILS.

C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.

D. REFER TO ELEVATIONS ON SHEET A0.01 FOR TOILET ROOM ACCESSORY MOUNTING HEIGHTS AND CLEARANCES.

E. "CG" INDICATES CORNER GUARD. REFER TO INTERIOR DETAILS FOR MORE INFORMATION.

F. ALL COUNTERTOPS AND WORK SURFACES TO HAVE BACK AND SIDE SPLASHES WHEREVER THE SURFACE ABUTS A WALL.

G. MATCHING SCRIBE STRIPS TO BE PROVIDED TO FILL GAPS AND IRREGULARITIES WHERE THE EDGE OF CABINETS AND LOCKERS MEET WALLS. FILLER STRIPS ALSO TO BE PROVIDED AT CABINETRY AND LOCKER CORNERS TO FILL ANY GAPS LEFT TO ALLOW DOORS AND DRAWERS TO FUNCTION PROPERLY.

H. DIMENSIONS ARE FROM FACE OF GYP. BD. TO FACE OF GYP. BD.

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Timothy J. Bernert, License #12305
Expiration Date 12/31/2021

Beavercreek Township
Fire Station No. 65
1777 Trebein Road, Beavercreek Township, Ohio 45385

ISSUE:

NO.	DATE	DESCRIPTION
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DATE	04/03/2020
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DRAWN	CMS
CHECKED	TJB
CAD	-

TITLE
ENLARGED PLANS & INTERIOR ELEVATIONS

SHEET NO.
A7.09

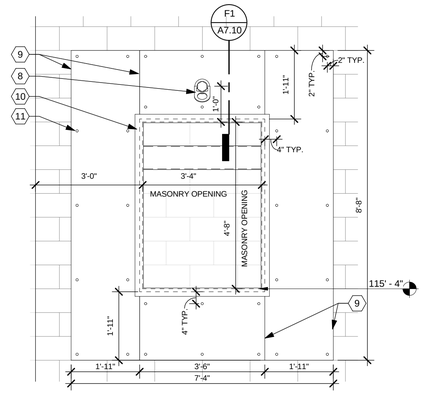
4/7/2020 9:55:39 AM

M01 TRAINING ROOM - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
4	EQ-42	1/8" ALUM. TREAD PLATE		CFCI

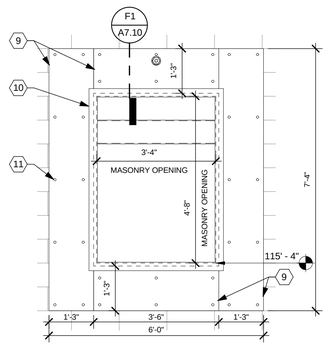
B1 APPARATUS BAY - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
1	EQ-1	DRY ERASE BOARD - 6'		OFCI
2	EQ-46	FIRE EXTINGUISHER, WALL MOUNT	REFER TO SHEET A1.11	OFCI

B2 APPARATUS BAY - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
2	EQ-40	LADDER TIE-OFF, 3/4" DIA. EYE-BOLT, GALV.	EPOXY INTO CMU	CFCI
1	EQ-41	REPELLING ANCHOR, SWIVEL, 10,000 lb		CFCI
4	EQ-42	1/8" ALUM. TREAD PLATE		CFCI

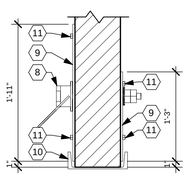
B3 APPARATUS BAY - EQUIPMENT LIST				
QTY.	TYPE	DESCRIPTION	COMMENTS	CATEGORY
2	EQ-46	FIRE EXTINGUISHER, WALL MOUNT	REFER TO SHEET A1.11	OFCI
1	EQ-43	HOSE RACK		OFOI



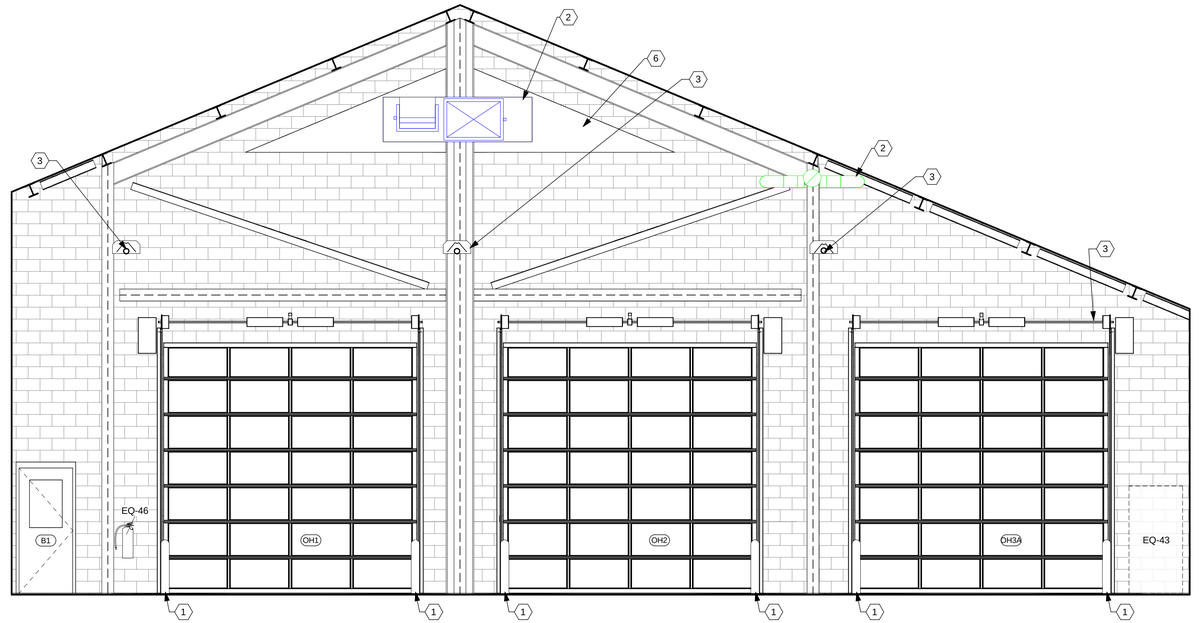
D1 TRAINING WINDOW - EAST ELEVATION
1/2" = 1'-0"



E1 TRAINING ROOM M01- EAST WALL
1/2" = 1'-0"



F1 TRAINING WINDOW SECTION
1" = 1'-0"



C3 APPARATUS BAYS - EAST WALL
1/4" = 1'-0"

F2 APPARATUS BAYS - WEST WALL
1/4" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 METAL PIPE BOLLARD (TYP) AT ALL OVERHEAD DOORS AND WHERE NOTED. REFER TO SHEET A5.04 FOR DETAILS.

2 HVAC DUCT. REFER TO HVAC DRAWINGS.

3 RADIANT HEATER. REFER TO HVAC DRAWINGS.

4 CORNER GUARD (CG-2). 8'-0" TALL.

5 LADDER TIE-OFF ANCHOR. 1/2" DIA. GALVANIZED EYE-BOLT.

6 OPEN AREAS OF LOUVER TO BE SEALED AND INSULATED BY MECHANICAL CONTRACTOR.

7 HOSE HANGER. REFER TO SHEET A0.05 AND ELECTRICAL & STRUCTURAL DRAWINGS FOR DETAILS.

8 3/4" STEEL SWIVEL REPELLING ANCHOR. 10,00 LB WEIGHT CAPACITY.

9 1/8" THICK ALUMINUM TREAD PLATE. MOUNT BEHIND STEEL CHANNEL OPENING. HOLD BACK 1" FROM MASONRY OPENING ALL SIDES.

10 STEEL CHANNEL OPENING FRAME. REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND SIZING. PAINT EP-2.

11 HILTI STAINLESS STEEL HIT ANCHOR WITH PHILLIPS HEAD ANCHORS

GENERAL NOTES

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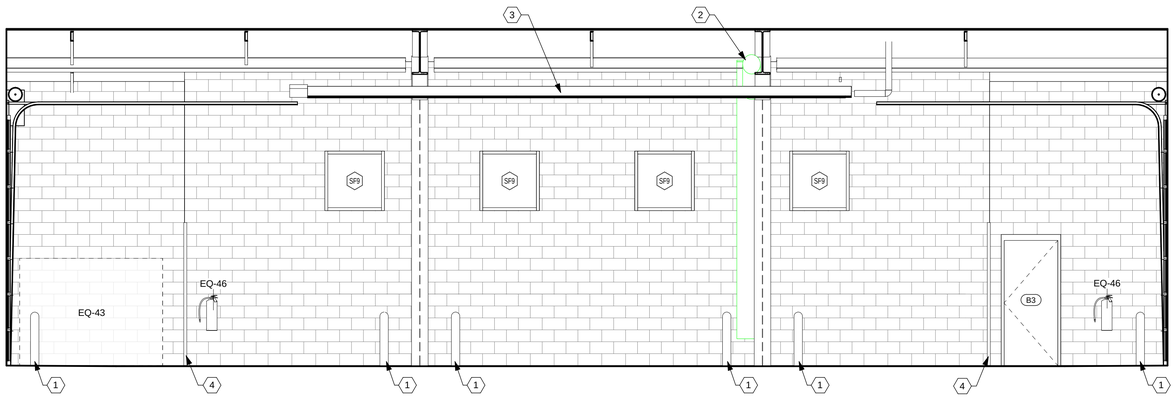
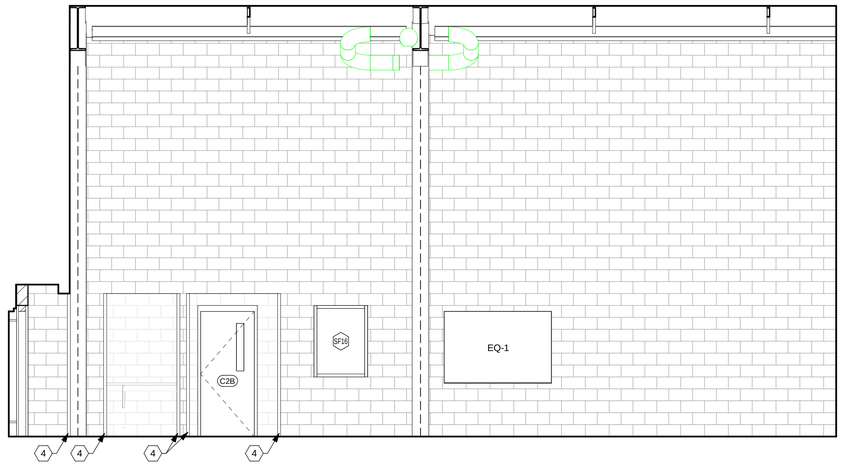
TITLE
INTERIOR ELEVATIONS APPARATUS BAYS

SHEET NO.
A7.10

4/7/2020 9:55:45 AM



B3 APPARATUS BAYS SOUTH WALL
1/4" = 1'-0"



D4 APPARATUS BAYS - NORTH WALL
1/4" = 1'-0"

CONSTRUCTION NOTES

00 INDICATES CONSTRUCTION NOTE.

1 METAL PIPE BOLLARD (TYP) AT ALL OVERHEAD DOORS AND WHERE NOTED. REFER TO SHEET A5.04 FOR DETAILS.

2 HVAC DUCT. REFER TO HVAC DRAWINGS.

3 RADIANT HEATER. REFER TO HVAC DRAWINGS.

4 CORNER GUARD (CG-2). 8'-0" TALL.

GENERAL NOTES

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E. "CG" INDICATES CORNER GUARD. REFER TO INTERIOR DETAILS FOR MORE INFORMATION.

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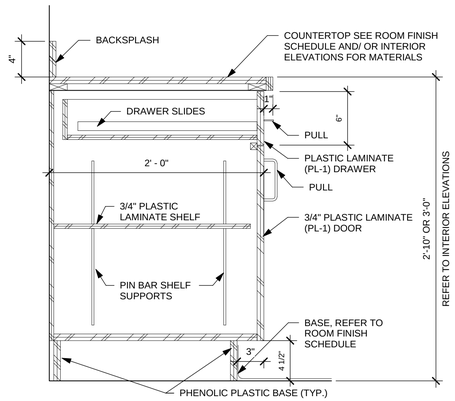
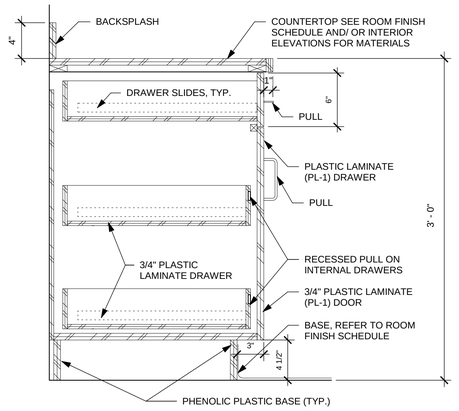
TITLE
INTERIOR ELEVATIONS APPARATUS BAYS

SHEET NO.
A7.11

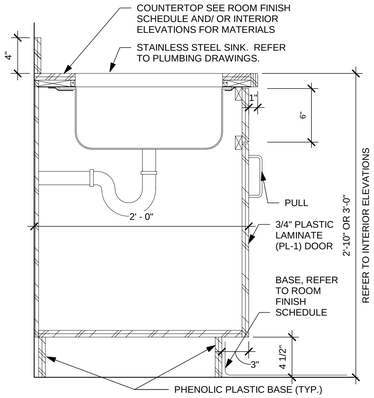
4/7/2020 9:55:47 AM



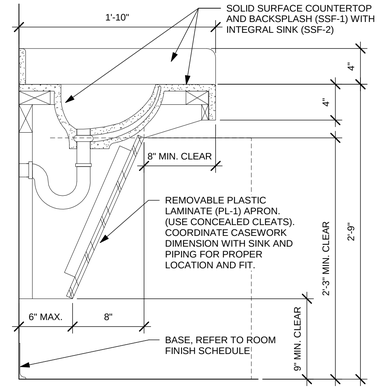
B1 TYP. BASE CABINET (BC) DETAIL
1 1/2" = 1'-0"



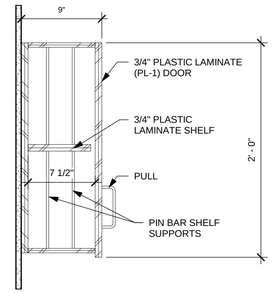
B2 POTS & PANS BASE CABINET (PP) DETAIL
1 1/2" = 1'-0"



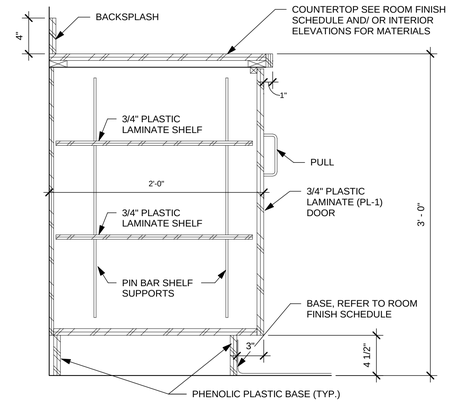
B4 TYP. SINK BASE CABINET (SB) DETAIL
1 1/2" = 1'-0"



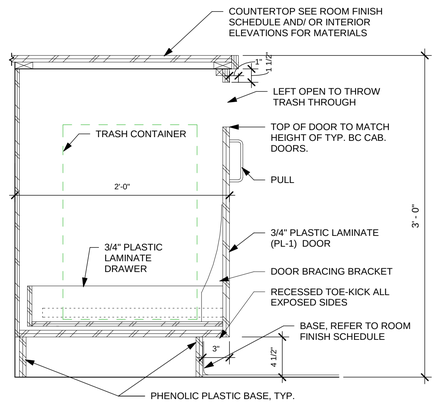
B5 "ADA" SINK (SB-2) DETAIL
1 1/2" = 1'-0"



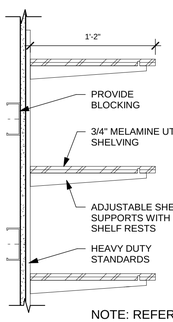
B7 TOILET WALL CABINET (TWC)
1 1/2" = 1'-0"



D1 BASE CABINET ISLAND (BCI) DETAIL
1 1/2" = 1'-0"

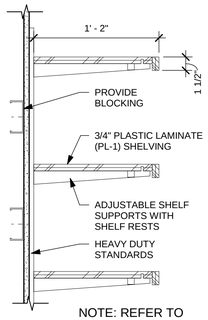


D2 TYP. TRASH BASE CABINET (BT) DETAIL
1 1/2" = 1'-0"



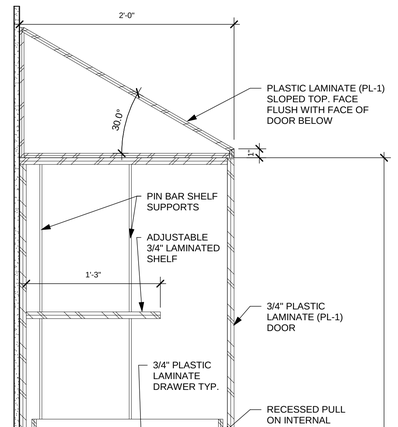
NOTE: REFER TO INTERIOR ELEVATIONS FOR QUANTITY AND LENGTH OF SHELVES.

D4 ADJUSTABLE SHELVING (ASU) DETAIL
1 1/2" = 1'-0"

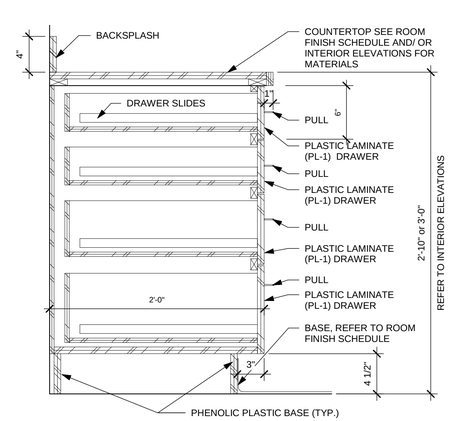


NOTE: REFER TO INTERIOR ELEVATIONS FOR QUANTITY AND LENGTH OF SHELVES.

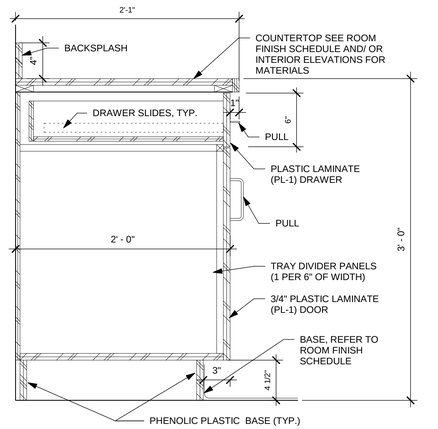
D5 ADJUSTABLE SHELVING (AS) DETAIL
1 1/2" = 1'-0"



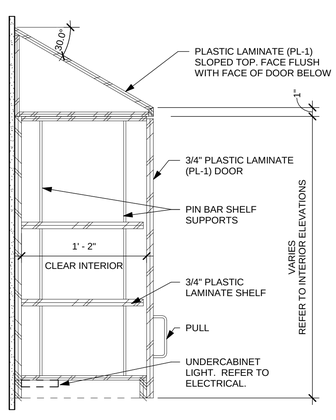
D6 KITCHEN PANTRY CABINET (PC) DETAIL
1 1/2" = 1'-0"



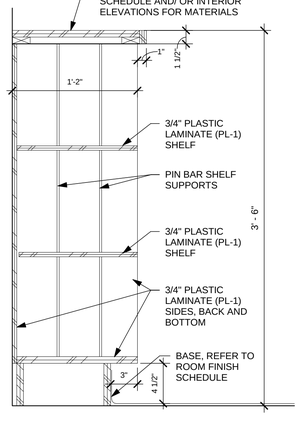
F1 4-DRAWER BASE CABINET (4BD) DETAIL
1 1/2" = 1'-0"



F2 TRAY DIVIDER BASE CABINET (TD) DETAIL
1 1/2" = 1'-0"



F4 WALL CABINET (WC) DETAIL
1 1/2" = 1'-0"



F5 BOOK SHELF (BS) DETAIL
1 1/2" = 1'-0"

F6 KITCHEN PANTRY CABINET (PC) DETAIL
1 1/2" = 1'-0"

4/7/2020 9:55:49 AM

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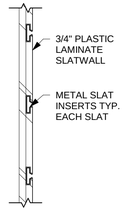
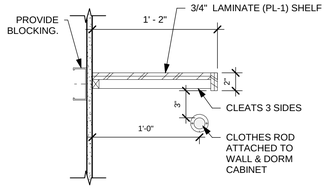
TITLE
CASEWORK DETAILS

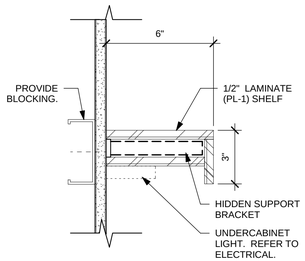
SHEET NO.
A8.01



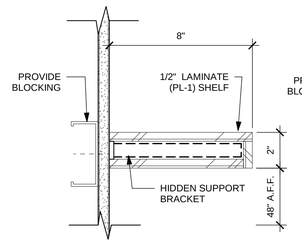
B2 SLATWALL DETAIL
3" = 1'-0"



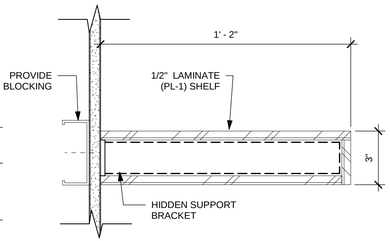
B3 HANGER ROD W/ SHELF (DS) DETAIL
1 1/2" = 1'-0"



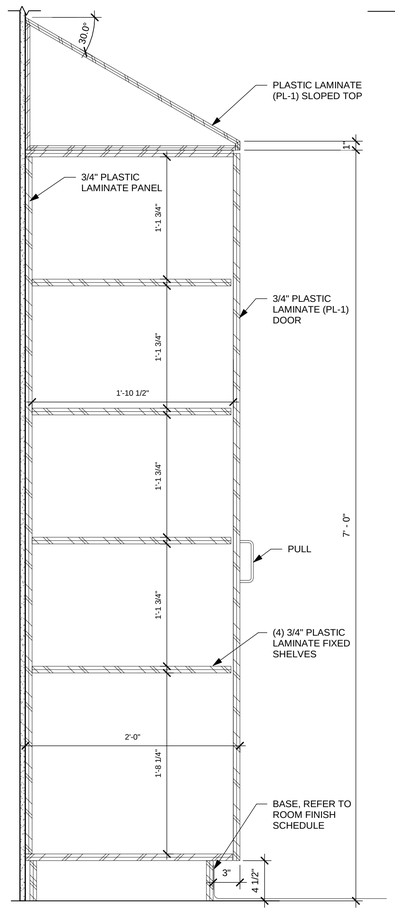
B4 DORM HEADBOARD SHELF (HB-1) DETAIL
3" = 1'-0"



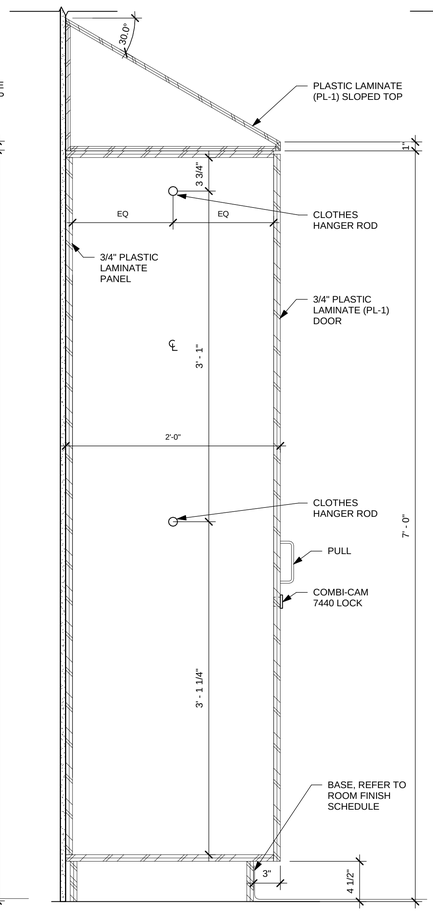
B5 DORM NIGHT STAND SHELF (NS-1) DETAIL
3" = 1'-0"



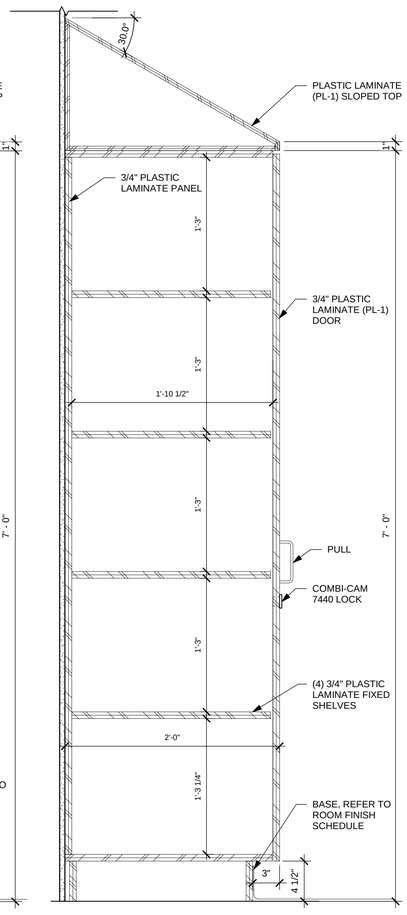
B6 SHELF (SH-1 & 2) DETAIL
3" = 1'-0"



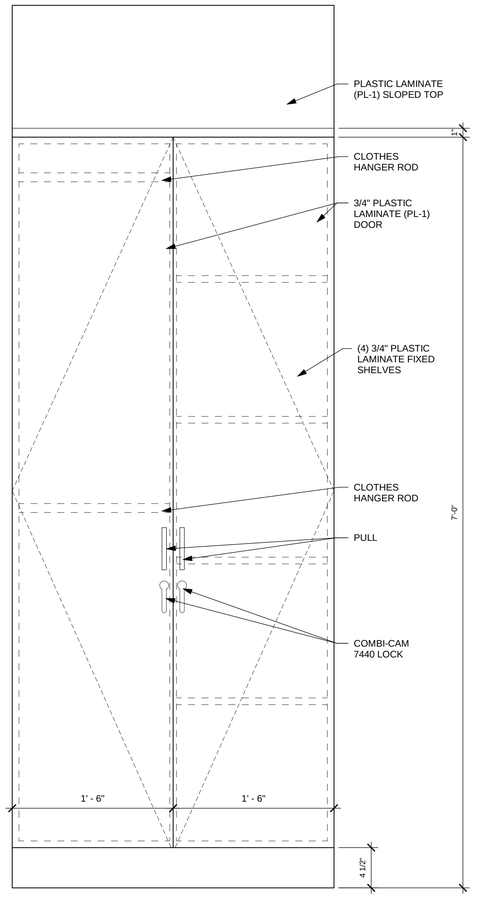
F1 TALL CABINET (TC) DETAIL
1 1/2" = 1'-0"



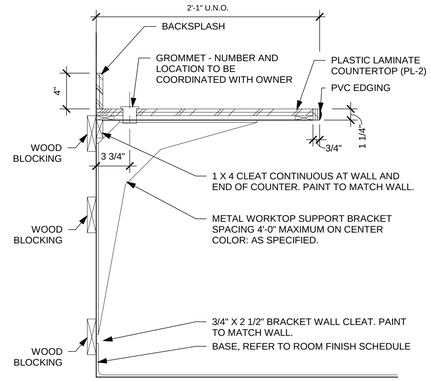
F2 DORM CABINET (DC-1)- HANGERS
1 1/2" = 1'-0"



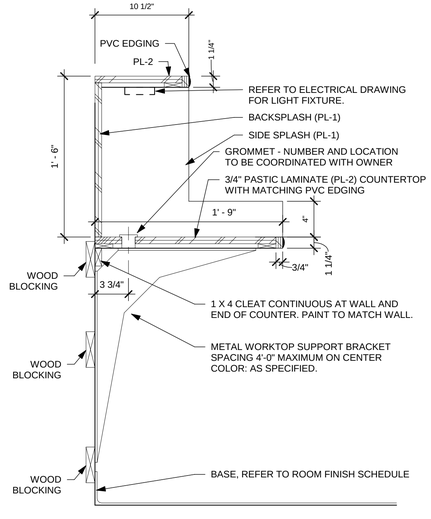
F3 DORM CABINET (DC-1) - SHELVES
1 1/2" = 1'-0"



F5 DORM CABINET (DC-1) ELEVATION
1 1/2" = 1'-0"



D6 TYP. WORK SURFACE DETAIL
1 1/2" = 1'-0"



F6 TYP. DORM WORK SURFACE (DWS) DETAIL
1 1/2" = 1'-0"

App Architecture
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615 Woodside Drive, Englewood, Ohio 45322
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STATE OF OHIO TIMOTHY J. BERNERT REGISTERED ARCHITECT 12305

Timothy J. Bernert, License #12305
Expiration Date 12/31/2021

Beavercreek Township
Fire Station No. 65
1777 Trebein Road, Beavercreek Township, Ohio 45385

ISSUE:

NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION

DATE	04/03/2020
JOB NO.	3541.01
DRAWN	CMS
CHECKED	TJB
CAD	-

TITLE
CASEWORK DETAILS

SHEET NO.
A8.02

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GENERAL STRUCTURAL NOTES

GENERAL

1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE CONSTRUCTION IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIEDOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL IS TO REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.

2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

3. MECHANICAL EQUIPMENT LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO MECHANICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR IS TO OBTAIN APPROVAL OF MECHANICAL AND OTHER TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS TO BE BORNE BY MECHANICAL CONTRACTOR.

4. DO NOT SCALE THE DRAWINGS WHERE DIMENSIONS ARE NOT SPECIFICALLY GIVEN. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO AUGMENT, NOR SUPERSEDE THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS.

5. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE ARCHITECT IMMEDIATELY WHERE CONFLICTS EXIST WITHIN THE DRAWINGS OR BETWEEN THE DRAWINGS AND FIELD CONDITIONS.

6. THROUGHOUT THESE PLANS, THE TERM "PROVIDE" IS DEFINED AS "SUPPLY AND INSTALL".

7. SHOP DRAWINGS ARE TO BE SUBMITTED BY COMPLETE ERECTION PHASE OR SEQUENCE. LIMITS OF EACH INDIVIDUAL ERECTION PHASE OR SEQUENCE ARE TO BE CLEARLY INDICATED ON THE PLANS. INCOMPLETE OR PIECEMEAL SHOP DRAWINGS WILL BE RETURNED PRIOR TO REVIEW. RESUBMITTALS ARE TO HAVE REVISIONS CLEARLY MARKED OR IDENTIFIED. THE CONTRACTOR SHALL REVIEW AND ACCEPT FULL RESPONSIBILITY FOR DIMENSIONAL CORRECTNESS. ALL SHOP DRAWINGS MUST BEAR THE APPROVAL STAMP OF THE CONTRACTOR PRIOR TO REVIEW BY THE ARCHITECT OR ENGINEER.

8. PREFABRICATED ITEMS SHOWN ON THE STRUCTURAL DRAWINGS ARE REFERENCED FOR GENERAL COORDINATION PURPOSES ONLY, AND MAY INCLUDE BUT NOT BE LIMITED TO: STAIRS, HANDRAILS, CURTAIN WALLS, STOREFRONT SYSTEMS, AWNINGS, COLD-FORMED METAL FRAMING, AND PREFABRICATED FRAMING MEMBERS. THESE SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.

9. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS OR WITH EACH OTHER, THE STRICTEST PROVISION WILL GOVERN.

10. GOVERNING CODE: 2017 OHIO BUILDING CODE.
BUILDING RISK CATEGORY: CATEGORY IV

DESIGN LOADS:

FLOOR LIVE LOADS (WITH ALLOWABLE REDUCTIONS WHERE APPLICABLE)	
- STAIRS & EXITS	100 PSF
- MEZZANINE/STORAGE (LIGHT)	125 PSF
ROOF LIVE LOADS	
- ORDINARY FLAT, PITCHED, AND CURVED ROOFS	20 PSF
- FABRIC AWNINGS/CANOPIES ON SKELETON STRUCTURE	5 PSF
SNOW	
- GROUND SNOW LOAD (Pg)	20 PSF
- FLAT ROOF SNOW LOAD (Pf)	20.2 PSF
- SNOW EXPOSURE FACTOR (Ce)	1.0
- SNOW LOAD IMPORTANCE FACTOR (Is)	1.2
- THERMAL FACTOR (Ct)	1.2
- SNOW DRIFTING	SEE PLAN
WIND	
- BASIC ULTIMATE WIND SPEED (Vult)	120 MPH
- BASIC ALLOWABLE WIND SPEED (Vasd)	93 MPH
- SITE EXPOSURE CATEGORY	C
- INTERNAL PRESSURE COEFFICIENT (Gcpi)	+/-0.55
SEISMIC	
- SEISMIC IMPORTANCE FACTOR	1.5
- MAPPED SPECTRAL RESPONSE ACCELERATION, Ss	0.153
- MAPPED SPECTRAL RESPONSE ACCELERATION, S1	0.071
- SEISMIC SITE CLASS	D
- DESIGN SPECTRAL RESPONSE ACCELERATION, SDS	0.163
- DESIGN SPECTRAL RESPONSE ACCELERATION, SD1	0.114
- SEISMIC DESIGN CATEGORY	C
- BASIC SEISMIC FORCE-RESISTING SYSTEM(S)	1. STEEL SYSTEMS NOT SPECIFICALLY DETAILED 2. ORDINARY REINFORCED MASONRY SHEAR WALLS 3. LIGHT-FRAME (COLD-FORMED STEEL) WALL SYSTEMS USING FLAT STRAP BRACING
- RESPONSE MODIFICATION COEFFICIENT(S), R	2.0
- SEISMIC RESPONSE COEFFICIENT(S), Cs	0.122
- SEISMIC DESIGN BASE SHEAR, V	74 K
- ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

GEOTECHNICAL

- GEOTECHNICAL ENGINEER:	PROFESSIONAL SERVICE INDUSTRIES, INC.
- REFERENCE REPORT ID OR NUMBER:	01051248
- REFERENCE REPORT DATE:	04/10/2018
- FOUNDATION TYPE	SHALLOW SPREAD FOOTING
- ALLOWABLE DESIGN BEARING PRESSURE	3,000 PSF

SPECIAL LOADS

- INTERIOR WALLS & PARTITIONS	5 PSF HORIZONTAL
- HANDRAIL LOADS	50 PLF/200# CONC.
- RETAINING WALLS	50 PCF
- BASEMENT WALLS	60 PCF

11. SPECIAL INSPECTIONS: IN ACCORDANCE WITH CHAPTER 17 OF THE REFERENCE BUILDING CODE, THE OWNER SHALL EMPLOY INSPECTION AGENCIES TO PERFORM SPECIAL INSPECTIONS DURING CONSTRUCTION INCLUDING INSPECTIONS OF SHOP-FABRICATED

ITEMS WHEN APPLICABLE. ALL INSPECTION AGENCIES, INCLUDING FABRICATION FACILITIES, WHEN REQUIRED, SHALL BE QUALIFIED AND APPROVED BY THE BUILDING OFFICIAL. THE FOLLOWING TYPES OF STRUCTURAL WORK REQUIRE SPECIAL INSPECTIONS:
    A. SOILS
    B. CONCRETE CONSTRUCTION
    C. MASONRY CONSTRUCTION
    D. STEEL CONSTRUCTION
    E. PREFABRICATED ITEMS
REFER TO OTHER DISCIPLINES FOR SPECIAL INSPECTIONS OF NON-STRUCTURAL SYSTEMS.

2. MATERIALS:
    A. STRUCTURAL CONCRETE:

DESCRIPTION	f'c (PSI)	MAX. w/cm	AIR CONTENT
LEAN CONCRETE	1,500	---	---
FOOTINGS, GRADE BEAMS, & INTERIOR COLUMN PIERS	3,500	0.55	---
EXTERIOR FOUNDATION STEM WALLS, EXTERIOR FOUNDATION WALLS, EXTERIOR COLUMN PIERS	4,500	0.45	5-7 %
INTERIOR SLABS ON GRADE	3,500	0.50	---
STRUCTURAL CONCRETE SLABS, BEAMS, AND COLUMNS	5,000	0.42	---
INT. SLABS ON METAL DECK	3,500	0.45	---
STAIR PAN FILL (#8 AGG.)	3,500	0.45	---
UNREINFORCED EXTERIOR SLABS ON GRADE, OR SITE CONC.	4,500	0.45	5-7 %
REINFORCED EXTERIOR SITE CONCRETE	5,000	0.40	5-7 %

    B. ALL DEFORMED REINFORCING BARS: FY = 60,000 PSI.
    C. CEMENT: PORTLAND CEMENT, ASTM C150, TYPE 1. ALL CEMENT FOR CONCRETE EXPOSED TO VIEW IS TO BE FROM THE SAME MILL.
    D. AGGREGATES: ASTM C33, USE SIZE NO. 57 FOR ALL CLASSES UNLESS NOTED OTHERWISE.
    E. ADMIXTURES:
        1. WATER-REDUCING, LOW AND MID RANGE: ASTM C494, TYPE A OR D.
        2. HIGH-RANGE WATER REDUCING, SUPERPLASTICIZER: ASTM C494, TYPE F OR G.
    F. AIR-ENTRAINING: ASTM C260.
    G. FLY-ASH: ASTM C618, TYPE C OR F.
    H. NON-CHLORIDE, NON-CORROSIVE ACCELERATOR: ASTM C494, TYPE C OR E.
3. FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, SP-15 IN THE FIELD OFFICE AT ALL TIMES.
4. SUBMITTALS:
    A. SUBMIT A MIX DESIGN FOR EACH CLASS OF CONCRETE REQUIRED FOR THE PROJECT. CONCRETE PROPORTIONS ARE TO BE ESTABLISHED ON THE BASIS OF PREVIOUS FIELD EXPERIENCE OR TRIAL MIXTURES.
    B. SUBMIT SHOP DRAWINGS FOR ALL REINFORCING. INDICATE STRENGTH, SIZE, AND DETAILS OF ALL BAR REINFORCING.
    C. SUBMIT PRODUCT LITERATURE FOR ADMIXTURES AND CURING COMPOUNDS PROPOSED FOR USE.
    D. SUBMIT REPORTS OF ALL REQUIRED TESTING AND INSPECTIONS.
5. CONTINGENCIES:
    A. PROVIDE XXX TON OF REINFORCING BARS TO BE USED AS DIRECTED BY THE ARCHITECT/ENGINEER. COLD BEND IN THE FIELD, IF REQUIRED.
    B. PROVIDE LEAN CONCRETE UNDER FOUNDATIONS FOR ACCIDENTAL OVER EXCAVATION, SOFT SPOTS, AND UTILITY TRENCHES.
6. OPENINGS:
    A. OPENINGS SHOWN ARE FOR BIDDING PURPOSES ONLY. RECONCILE THEIR EXACT SIZE AND LOCATION WITH ARCHITECTURAL, MECHANICAL AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH WORK.
    B. PROVIDE 2 NO. 5 BARS AROUND ALL WALL OPENINGS, EXTENDING TWO FEET BEYOND OPENING IN EVERY DIRECTION. OPENINGS IN WALLS NOT EXCEEDING 12" x 12" MAY BE SLEEVED AS REQUIRED BY WORKING THE REINFORCING STEEL AROUND THEM.
    C. IF ANY OPENING NOT SHOWN ON THE PLANS IS REQUIRED, SECURE APPROVAL OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING.
7. FOOTINGS, PIERS, WALLS:
    A. DOWELS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING.
    B. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING. MINIMUM LENGTH OF EACH LEG - 36 BAR DIAMETERS.
    C. DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL BOTH ADJACENT FLOOR SLABS ARE IN PLACE.
8. SPLICES:
    A. LAP SPLICE REINFORCING BARS AS SCHEDULED. MINIMUM LAP = 36 DIAMETERS.
9. CONSTRUCTION JOINTS:
    A. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER.
10. WEDGE ANCHORS AND CHEMICAL ANCHORS:
    A. MINIMUM EMBEDMENT FOR WEDGE ANCHORS IS TO BE 7 BOLT DIAMETERS, UNLESS DESIGNATED OTHERWISE.
    B. MINIMUM EMBEDMENT FOR EPOXY ANCHORS IS TO BE 9 BOLT DIAMETERS, UNLESS DESIGNATED OTHERWISE.
    C. ALL POST-INSTALLED ANCHORS TO BE HAMMER DRILLED. FOLLOW ALL HOLE CLEANING AND INSTALLATION INSTRUCTIONS AS STIPULATED BY THE ANCHOR MANUFACTURER.
    D. INSTALLATION OF ADHESIVE ANCHORS MUST BE PERFORMED BY PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS.
    E. MINIMUM CONCRETE AGE FOR POST-INSTALLED ADHESIVE ANCHORS SHALL BE NOT LESS THAN 28 DAYS.
11. FINISHES:
    A. PER ACI 117, SURFACES OF INTERIOR SLABS ON GRADE ARE TO BE FINISHED TO THE FOLLOWING TOLERANCES: FLOOR FLATNESS F(f)=30 AND LEVELNESS F(l)=20 UNLESS NOTED OTHERWISE IN SPECIFICATIONS.
    B. TYPICAL INTERIOR FLOOR AREAS TO RECEIVE CARPET, RESILIENT FLOOR COVERING, OR TO REMAIN EXPOSED - TROWELED FINISH.
    C. INTERIOR FLOOR AREA TO RECIEVE POLISHED CONCRETE FINISH-SEE ARCH. FOR LOCATIONS.
    D. INTERIOR FLOOR AREAS TO RECEIVE QUARRY TILE OR CERAMIC TILE - FLOATED FINISH.
    E. EXTERIOR SLABS - BROOM FINISH.
12. CURING:
    A. CURING IS TO COMMENCE IMMEDIATELY AFTER CONCRETE PLACEMENT AND CONTINUE FOR AT LEAST 7 DAYS. DO NOT ALLOW CURING TO BE DELAYED OVERNIGHT.
    B. INTERIOR SLABS TO RECEIVE QUARRY TILE OR CERAMIC TILE ARE TO BE MOIST-CURED WITHOUT THE USE OF A CURING COMPOUND.
    C. ALL OTHER SLABS MAY BE EITHER MOIST-CURED OR RECEIVE AN APPLICATION OF CURING COMPOUND, UNLESS NOTED OTHERWISE IN SPECIFICATIONS.
13. FIELD QUALITY CONTROL:
    A. OBTAIN CONCRETE FOR REQUIRED TESTS AT POINT OF PLACEMENT. IF CONCRETE IS PUMPED, OBTAIN CONCRETE AT DISCHARGE END.
    B. FOR EACH CLASS OF CONCRETE, OTHER THAN LEAN CONCRETE, PERFORM ONE STRENGTH TEST FOR EACH 50 YARDS, OR FRACTION THEREOF, FOR ONE DAY PLACEMENT.
    C. DETERMINE SLUMP FOR EACH STRENGTH TEST.
    D. DETERMINE AIR CONTENT FOR EACH STRENGTH TEST OF EXTERIOR EXPOSED CONCRETE.
    E. MAINTAIN RECORDS OF ALL TESTS INDICATING EXACT LOCATION OF THE STRUCTURE REPRESENTED BY EACH TEST.

MASONRY

1. MATERIALS:
    A. CONCRETE BLOCK: ASTM C90 (HOLLOW AND SOLID), f'm = 1,900 PSI
    B. MORTAR: TYPE S, MINIMUM COMPRESSIVE STRENGTH = 1,800 PSI
    C. BOND BEAM AND CORE FILL: ASTM C476, COARSE TYPE
    D. HORIZONTAL JOINT REINFORCING: STANDARD LADDER TYPE, 9 GA., MILL GALVANIZED FINISH. PROVIDE AT 8" O.C. BELOW GRADE, AND 16" O.C. ABOVE GRADE, UNLESS NOTED OTHERWISE.
2. CONTROL JOINTS:
    A. PROVIDE CONTROL JOINTS IN ALL MASONRY WALLS AT A SPACING NOT TO EXCEED THREE TIMES THE WALL HEIGHT OR 24 FEET ON CENTER, WHICHEVER IS SMALLER. IN ADDITION, PROVIDE CONTROL JOINTS AT THE ENDS OF LINTELS, CHANGES IN WALL HEIGHT, CHANGES IN WALL THICKNESS, WITHIN 2 FEET OF WALL CORNERS AND INTERSECTIONS, TRANSITIONS FROM INTERIOR WALL TO EXTERIOR WALL, AND TRANSITIONS FROM WALL BEARING ON FOUNDATION TO WALL BEARING ON FLOOR SLAB.
3. MISCELLANEOUS:
    A. PROVIDE 100% SOLID CMU BEARING, MINIMUM 3 COURSES UNDER BEAMS, 2 COURSES UNDER JOISTS, UNLESS DETAILED OTHERWISE.
    B. PROVIDE SOLID OR GROUT-FILLED CMU FOR ALL BELOW-GRADE FOUNDATION WALLS.
    C. FILL CORE SOLID AROUND CAST-IN ANCHOR BOLTS.
    D. PROVIDE SOLID CMU OR SOLIDLY FILLED HOLLOW CMU AT ALL EPOXY ANCHOR AND WEDGE ANCHOR LOCATIONS. EXTEND SOLID AREA AT LEAST 8" IN ALL DIRECTIONS FROM CENTER OF ANCHOR.
    E. SET WELD PLATES IN BOND BEAMS AFTER THE GROUT IS PLACED, BUT WHILE IT IS STILL PLASTIC.
    F. HOLLOW MASONRY UNITS TO BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS ARE TO ALSO BE BEDDED IN ALL COURSES OF PIERS, AND PILASTERS, AND IN THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR
    G. CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.
    H. PROVIDE APPROPRIATE MASONRY ANCHORS AT 16" O.C. MAX. TO TIE MASONRY TO ABUTTING STEEL COLUMNS, STEEL BEAM WEBS, AND ALL ABUTTING CONCRETE SURFACES.
    I. MINIMUM EMBEDMENT FOR WEDGE ANCHORS IS TO BE 7 BOLT DIAMETERS, UNLESS DESIGNATED OTHERWISE. MINIMUM EMBEDMENT FOR EPOXY ANCHORS IS TO BE 9 BOLT DIAMETERS, UNLESS DESIGNATED OTHERWISE.
    J. WHERE HOLLOW MASONRY UNITS ARE USED ABOVE HOLLOW MASONRY UNITS OF A DIFFERENT THICKNESS, PROVIDE A CONTINUOUS COURSE OF SOLID MASONRY AT LEAST 8" HIGH BELOW THE TRANSITION.
    K. AT CORBELLED WALLS, USE SOLID MASONRY FOR THE COURSE BELOW THE FIRST CORBEL AND FOR EACH CORBELLED COURSE. MAXIMUM CORBEL PER COURSE = 1", UNLESS DETAILED OTHERWISE.
    L. LAP SPLICE REINFORCING BARS AS SCHEDULED. MINIMUM LAP = 48 BAR DIAMETERS.
    M. ALL GROUTING OF MASONRY WALLS IS TO BE BY THE LOW-LIFT GROUTING METHOD (MAXIMUM LIFT HEIGHT 5'-0"), UNLESS CLEAN-OUTS AND INSPECTIONS ARE PROVIDED.

STRUCTURAL STEEL

1. MATERIALS:
    A. STRUCTURAL STEEL WIDE FLANGE SHAPES: ASTM A992, Fy = 50 KSI
    B. STRUCTURAL STEEL CHANNELS, ANGLES, ETC.: ASTM A36, Fy = 36 KSI
    C. STRUCTURAL STEEL PLATES: UNLESS NOTED OTHERWISE - ASTM A36, Fy = 36 KSI; ASTM A529 OR A572, Fy = 50 KSI, WHERE NOTED
    D. HIGH STRENGTH BOLTS: ASTM A325 OR A490
    E. ANCHOR BOLTS: ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE
    F. ELECTRODES: SERIES E70
    G. STRUCTURAL TUBING: ASTM A500, GRADE B, FY = 46 KSI
    H. STRUCTURAL PIPES: ASTM A53, TYPE E OR S, GRADE B, FY = 35 KSI
    I. SHEAR STUDS: ASTM A108, FY = 60 KSI
    J. DEFORMED BAR ANCHORS: ASTM A496, Fy = 70 KSI
2. SPECIFICATIONS:
    A. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1. UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY THE LATEST REVISIONS OF:
        1. AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
        2. AISC CODE OF STANDARD PRACTICE.
        3. STRUCTURAL WELDING CODE, AWS D1.1 OF THE AMERICAN WELDING SOCIETY.
        4. SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
3. SUBMITTALS:
    A. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL WHICH INCLUDE ERECTION PLANS, CONNECTION DETAILS, AND SHOP DETAILS INDICATING CUTS, COPES, CAMBERS, CONNECTIONS, HOLES, THREADED FASTENER TYPES AND SIZES, AND SIZES AND LENGTHS OF WELDS.
    B. INDICATE MATERIAL SPECIFICATIONS, STRENGTHS, AND FINISHES.
4. CONNECTIONS:
    A. FIELD CONNECTIONS ARE TO BE BOLTED, EXCEPT AS INDICATED OTHERWISE. SHOP CONNECTIONS MAY BE WELDED OR BOLTED.
    B. CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR TO DEVELOP EITHER 100% OF THE FULL UNIFORM LOAD CAPACITY OF THE MEMBER, OR THE FORCES SHOWN ON THE PLANS (WHICHEVER GOVERNS). COMPOSITE BEAM CONNECTIONS ARE TO BE DESIGNED FOR 150% OF THE UNIFORM LOAD CAPACITY, OR THE FORCES SHOWN ON THE PLANS (WHICHEVER GOVERNS). MINIMUM CONNECTION CAPACITY TO BE 6 KIPS. FOLLOW INSTRUCTIONS ON DRAWINGS FOR GENERAL ARRANGEMENT OR PARTICULAR DETAILS.
5. COATINGS:
    A. DO NOT PAINT STEEL OR ANCHOR BOLTS WHICH WILL BE ENCASED IN CONCRETE OR MASONRY, NOR ANY STEEL WHICH IS SCHEDULED TO RECEIVE SPRAY-APPLIED OR INTUMESCENT-MASTIC FIREPROOFING.
    B. PAINT ALL INTERIOR EXPOSED STEEL (INCLUDING INTERIOR LINTELS) WITH TWO COATS OF RED-OXIDE PRIMER.
    C. HOT-DIP GALVANIZE ALL EXTERIOR STEEL (INCLUDING LINTELS AND BRICK SHELF ANGLES).
    D. PROVIDE A FIELD-APPLIED COAT OF ASPHALT-MASTIC PAINT FOR ALL BELOW-GRADE STEEL (INCLUDING ANCHOR BOLTS, NUTS, WASHERS, BASE PLATES, AND THE BELOW-GRADE PORTION OF COLUMNS) WHICH IS NOT FULLY ENCASED IN CONCRETE.
    E. INTERIOR NON-EXPOSED STEEL NEED NOT BE PRIME PAINTED.
6. MISCELLANEOUS:
    A. PROVIDE HOLES FOR OTHERS. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.
    B. STEEL SUPPORTING OR CONNECTING TO MECHANICAL AND OTHER EQUIPMENT AND ROOF OPENINGS AS SHOWN ON ARCHITECTURAL, MECHANICAL AND/OR ON STRUCTURAL DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR IS TO RECONCILE EXACT SIZE AND LOCATION WITH MECHANICAL AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH THIS WORK.
    C. GROUT UNDER BEARING PLATES TO BE NON-METALLIC, NON-SHRINKING TYPE.
    D. STEEL BELOW GRADE TO BE PROTECTED BY A MINIMUM OF 3" OF CONCRETE, 4" OF SOLID MASONRY, OR A FIELD-APPLIED COAT OF ASPHALT-MASTIC PAINT.
    E. PROVIDE 1/4" THICK SETTING PLATES FOR ALL BEAMS AND BEAM LINTELS BEARING ON MASONRY OR CONCRETE WHICH DO NOT REQUIRE A THICKER BEARING PLATE.
    F. PROVIDE HEAVY PLATE WASHERS AT ALL ANCHOR BOLTS.
    G. FINISH ENDS OF ALL COLUMNS, STIFFENERS AND ALL OTHER MEMBERS IN DIRECT BEARING.
    H. PROVIDE BOLT HOLES FOR WOOD NAILERS AND JOISTS BOLTED TO BEAMS.
    I. PROVIDE ATTACHMENT FOR JOINING EXTENDED JOIST BOTTOM CHORDS.
    J. STEEL IN CONTACT WITH PRESSURE-TREATED LUMBER IS TO BE PROTECTED FROM CORROSION FROM PRESERVATIVE CHEMICALS WITH A 20 MIL (MIN.) VAPOR BARRIER. BOLTS AND SCREWS THROUGH PRESSURE-TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316.
    K. PROVIDE ADDITIONAL SUPPORT FOR ALL DECK OPENINGS THAT ARE EQUAL TO OR GREATER THAN 12" IN WIDTH OR DIAMETER. NOT ALL DECK OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE SIZE AND LOCATION WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND OTHER TRADES.
    L. SEE ARCHITECTURAL SECTIONS AND DETAILS FOR ALL MISCELLANEOUS STRUCTURAL STEEL NOT OTHERWISE INDICATED IN THE STRUCTURAL DRAWINGS.
7. FIELD QUALITY CONTROL:
    A. INSPECTION AGENCY IS TO PERFORM INSPECTION OF BOLTED CONNECTIONS PER THE REQUIREMENTS OF AISC SPECIFICATION FOR STRUCTURAL JOINTS.
8. CONTINGENCY:
    A. PROVIDE AND ERECT XX TONS OF STRUCTURAL AND/OR MISCELLANEOUS STEEL (STRUCTURAL SHAPES, ANGLES, PLATES, ETC.) TO BE USED AS DIRECTED BY THE ARCHITECT/ENGINEER. CONNECTIONS TO BE FIELD-WELDED IF REQUIRED.

METAL DECK

1. MATERIALS:
    A. UNPROTECTED PAINTED DECK: ASTM A1008
    B. GALVANIZED SHEET STEEL: ASTM A653
    C. ROOF DECK: 1-1/2" DEEP, WIDE RIB, GALVANIZED.
    D. ROOF DECK: 2" DEEP, DOVETAIL, GALVANIZED.
    E. ROOF DECK: 3" DEEP, DEEP RIB AND DEEP RIB ACOUSTIC, GALVANIZED.
    F. FLOOR DECK: 9/16" DEEP, CONFORM, GALVANIZED.
    G. FLOOR DECK: 1" DEEP, CONFORM, GALVANIZED
    H. COMPOSITE FLOOR DECK: 2" DEEP, GALVANIZED.
2. SPECIFICATIONS:
    A. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS. DESIGN, FABRICATION, AND ERECTION TO BE GOVERNED BY THE LATEST REVISIONS OF:
        1. AISI "SPECIFICATION OF THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
        2. STRUCTURAL WELDING CODE, AWS D1.3 OF THE AMERICAN WELDING SOCIETY.
        3. SDI "DESIGN MANUAL FOR FLOOR DECK AND ROOF DECKS".
3. CONNECTIONS:
    A. DECK TO STRUCTURAL STEEL OR JOISTS: 5/8" DIAMETER PUDDLE WELDS.
    B. CENTERING TO STEEL OR JOISTS: 1/2" DIA. FUSION WELDS WITH WELD WASHERS.
    C. DECK TO COLD-FORMED TRUSSES OR FRAMING: #12 SCREWS.
    D. SIDE LAP FASTENING: #10 SCREWS.
    E. ROOF DECK FASTENING TO RESIST A GROSS UPLIFT OF 30 PSF MINIMUM.
4. FINISH:
    A. PRIME PAINTED SHEET STEEL: ASTM A1008 SHOP PRIMED WITH MANUFACTURER'S STANDARD BAKED-ON, RUST-INHIBITIVE PRIMER; COLOR: MANUFACTURER'S STANDARD.
    B. GALVANIZED: CONFORM TO ASTM A653, G60.
    C. GALVANIZED AND SHOP-PRIMED STEEL SHEET: ASTM A653, G60. CLEANED, PRETREATED, AND PRIMED WITH MANUFACTURER'S STANDARD BAKED ON RUST-INHIBITIVE PRIMER; COLOR: MANUFACTURER'S STANDARD.
5. METAL DECK AS FORMWORK:
    A. IN METAL DECK APPLICATIONS WHICH RECEIVE CONCRETE FILL, THE DECK IS DESIGNED TO SUPPORT THE SELF WEIGHT OF DECK, CONCRETE, AND A UNIFORM CONSTRUCTION LIVE LOAD OF 20 PSF WHICH IS CONSIDERED ADEQUATE FOR TYPICAL CONSTRUCTION APPLICATIONS THAT CONSIST OF CONCRETE TRANSPORT AND PLACEMENT BY HOSE AND CONCRETE FINISHING USING HAND TOOLS. BULK DUMPING OF CONCRETE USING BUCKETS, CHUTES OR HANDCARTS, OR THE USE OF HEAVIER MOTORIZED FINISHING EQUIPMENT SUCH AS POWER SCREEDS MAY REQUIRE REDESIGN OF THE DECK. NOTIFY THE E.O.R. ONCE MEANS-AND-METHODS OF CONCRETE PLACEMENT ARE ESTABLISHED.
6. MISCELLANEOUS:
    A. UNITS ARE TO BE CONTINUOUS OVER AT LEAST THREE SPANS. WHERE FEWER THAN THREE SPANS ARE NEEDED, GAGE IS TO BE INCREASED AS REQUIRED TO OBTAIN THE SAME DESIGN STRENGTH AS THE THREE-SPAN CONDITION. END LAPS ARE ONLY BE LOCATED OVER SUPPORTS.
    B. FIELD CUTTING TO BE PERFORMED WITH A SAW.
    C. METAL DECK SHOULD BE PROTECTED FROM CORROSION FROM PRESERVATIVE CHEMICALS IN PRESSURE-TREATED LUMBER WITH A MINIMUM 20 MIL VAPOR BARRIER. ALL FASTENERS AND CONNECTORS IN CONTACT WITH PRESSURE-TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 AND ASTM A123 WITH A MINIMUM G185 COATING.
    D. PROVIDE ADDITIONAL SUPPORT FOR ALL DECK OPENINGS THAT ARE EQUAL TO OR GREATER THAN 12" IN WIDTH OR DIAMETER. NOT ALL DECK OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE SIZE AND LOCATION WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND OTHER TRADES.

COLD FORMED METAL FRAMING

1. MATERIALS:
    A. COLD-FORMED METAL STUDS AND JOISTS SHOWN ON THE CONTRACT DOCUMENTS ARE DESIGNATED BY "DEPTH", "SHAPE", "WIDTH", AND "THICKNESS" AS FOLLOWS:
        1. DEPTH: 362 (3-5/8"), 600 (6"), 800 (8"), ETC.
        2. SHAPE: S (C-SHAPE), T (TRACK), U (CHANNEL)
        3. WIDTH: 125 (1-1/4"), 162 (1-5/8"), 200 (2"), ETC.
        4. THICKNESS: -43 (18 GA.), -54 (16 GA.), -68 (14 GA.), -97 (12 GA.)
        EXAMPLE: 600S162-54 = 6" C-SHAPE, 1 5/8" FLANGE, 16 GA.
    B. ALL 18 GA AND LIGHTER STUDS TO BE 33 KSI MATERIAL; ALL 16 GA AND HEAVIER STUDS TO BE 50 KSI MATERIAL.
    C. ALL TRACKS AND ACCESSORIES: FY = 33 KSI MINIMUM.
2. SPECIFICATIONS:
    A. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS. DESIGN, FABRICATION, AND ERECTION TO BE GOVERNED BY LATEST REVISIONS OF:
        1. AISI "SPECIFICATION OF THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
        2. STRUCTURAL WELDING CODE, AWS D1.3 OF THE AMERICAN WELDING SOCIETY.
3. SUBMITTALS:
    A. SUBMIT MANUFACTURER'S STANDARD PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH TYPE OF COLD-FORMED METAL FRAMING AND ACCESSORY REQUIRED.
    B. SUBMIT FULLY DIMENSIONED ERECTION PLANS AND CONNECTION DETAILS INDICATING ALL COMPONENT AND MEMBER LOCATIONS, ORIENTATION, AND LAYOUT. PLANS TO INCLUDE MEMBER SIZES, TYPES, GAGE DESIGNATIONS, QUANTITY AND SPACING. ALSO INCLUDE DETAILS OF CONNECTIONS NOTED SCREW TYPES, QUANTITIES, LOCATIONS, WELD SIZES, LENGTHS, AND LOCATIONS, AND ADDITIONAL STRAPPING, BRACING, OR ACCESSORIES REQUIRED FOR A PROPER AND COMPLETE INSTALLATION.
4. CONNECTIONS:
    A. FIELD CONNECTIONS MAY BE EITHER WELDED OR SCREWED, EXCEPT AS SPECIFICALLY DETAILED OTHERWISE.
    B. WELD SIZE TO BE 1/8" WITH AWS TYPE 6013 OR 7014 ROD.
    C. EXCEPT AS NOTED OTHERWISE, MECHANICAL FASTENERS TO BE SELF TAPPING #10-16 SCREWS.
5. FINISH:
    A. ALL MATERIAL TO BE GALVANIZED COATED IN ACCORDANCE WITH ASTM A525 G-60.
    B. TOUCH-UP FIELD WELDS WITH ZINC RICH PAINT.
6. MISCELLANEOUS:
    A. ALL FIELD CUTTING TO BE PERFORMED WITH A SAW.
    B. TRACKS TO BE SECURELY ANCHORED TO SUPPORTING STRUCTURE WITH WELD OR SCREW AT EACH SIDE OF TRACKS.
    C. PROVIDE HORIZONTAL BRIDGING AT 4'-0" O.C. MAX. FOR ALL STUD WALLS UNLESS NOTED OTHERWISE. BRIDGING IS NOT REQUIRED FOR PORTIONS OF INTERIOR NON-LOADBEARING STUD WALLS WHERE BOTH SIDES ARE FACED WITH SHEATHING.
    D. JOISTS TO BE LOCATED DIRECTLY OVER BEARING WALL STUDS UNLESS A LOAD DISTRIBUTION MEMBER IS PROVIDED AT THE TOP TRACK.
    E. BEARING WALL STUDS ARE TO BE LOCATED DIRECTLY BELOW JOIST OR ROOF TRUSS BEARING UNLESS A LOAD DISTRIBUTION MEMBER IS PROVIDED AT THE TOP TRACK.
    F. END BLOCKING OR CONTINUOUS TRACK IS TO BE PROVIDED WHERE JOIST ENDS ARE NOT OTHERWISE RESTRAINED FROM ROTATION.
    G. WEB PUNCH-OUTS FOR BEAMS, JOISTS, AND RAFTERS ARE TO BE LOCATED A MINIMUM OF 10" AWAY FROM BEARING AND CONCENTRATED LOAD LOCATIONS. IF A PUNCH-OUT FALLS WITHIN 10" OF THESE LOCATIONS, PROVIDE REINFORCEMENT FOR THE MEMBER AS REQUIRED. ALTERNATELY, UN-PUNCHED SECTIONS MAY BE PROVIDED FOR BEAMS, JOISTS, AND RAFTERS.
    H. EACH MEMBER OF MULTIPLE MEMBER COLUMNS ARE TO BE SCREWED TOGETHER USING FULL-HEIGHT TRACKS AND #10 SCREWS AT 12" O.C. ALTERNATELY, MULTIPLE MEMBER COLUMNS MAY BE WELDED TOGETHER WITH A 1" WELD AT 18" ON CENTER, EACH SIDE, EACH PIECE, FOR THE FULL LENGTH OF THE COLUMN.

STRUCTURAL LUMBER

1. MATERIALS:
    A. STRUCTURAL LUMBER: ALL DESIGN VALUES PER 2015 NFPA NATIONAL DESIGN SPECIFICATION. ANY SUBSTITUTIONS ARE TO MEET MINIMUM DESIGN VALUES OF ABOVE MEMBERS. UNLESS NOTED OTHERWISE FRAMING MATERIALS SHALL BE:
    B. BEAMS, HEADERS, JOISTS, AND RAFTERS - SPRUCE-PINE-FIR NO.1/NO.2
    C. WALL STUDS 2x4 OR 2x6 - SPRUCE-PINE-FIR "STUD" GRADE.
    D. MICRO=LAM (M=L) OR LAMINATED VENEER LUMBER (LVL): Fb = 2,600 PSI, Fv = 285 PSI, Fc (PERP.) = 750 PSI, E = 1,900 KSI.
    E. PARALLAM OR PARALLEL STRAND LUMBER (PSL): Fb = 2,900 PSI, Fv = 290 PSI, Fc (PERP.) = 750 PSI, E = 2,000 KSI.
    F. LAMINATED STRAND LUMBER (LSL) BEAMS: Fb = 2360 PSI, Fv = 410, Fc (PERP.) = 875 PSI, E = 1,550 KSI.
    G. PREFABRICATED WOOD I-JOIST – CAPACITIES AND DESIGN PROVISIONS SHALL BE AS ESTABLISHED AND MONITORED IN ACCORDANCE WITH ASTM D5055.
    H. ENGINEERED WOOD RIM BOARD – SHALL CONFORM TO APA PRR-410
    I. DECKING AND SHEATHING (OSB OR PLYWOOD): FLOORS - 3/4" NOMINAL APA RATED STURD-I-FLOOR, 48/24, EXPOSURE 1, TONGUE AND GROOVE; ROOFS – 19/32 (5/8" NOMINAL) APA RATED SHEATHING, 32/16, EXPOSURE 1; WALL SHEATHING – 7/16" APA RATED SHEATHING, WALL-24, EXPOSURE 1.
    J. GLUE-LAMINATED BEAMS: SOUTHERN PINE, 24F-V5.
    K. SOLID WOOD DECKING: 2 X 6 DOUGLAS FIR/LARCH, GRADE AND DESIGN VALUES AS REQUIRED FOR SPANS. SURFACE - SMOOTH; RANDOM LENGTH; CENTER AND END MATCHED.
    L. COMPOSITE INSULATED ROOF PANELS: 7/16" OSB INTERIOR AND EXTERIOR FACES WITH EXPANDED POLYSTYRENE FOAM INSULATED CORE. CORE THICKNESS AS DEFINED ON DOCUMENTS.
    M. ALL LUMBER IN CONTACT WITH CONCRETE, MASONRY, GROUND/SOIL, OR USED IN CONDITIONS WITH MOISTURE PRESENT, IS TO BE PRESSURE-TREATED TO RESIST DECAY. PRESERVATIVES USED FOR PRESSURE TREATMENT ARE TO BE ALKALINE COPPER QUAT, ACQ-C OR ACQ-D. OTHER PRESERVATIVES PROPOSED FOR USE ARE TO BE SUBMITTED FOR REVIEW PRIOR TO ERECTION OR INSTALLATION ON THE PROJECT.
    N. FIRE-RETARDANT-TREATED WOOD PRODUCTS – MUST CONFORM TO ASTM D5664 FOR LUMBER AND ASTM D5516 FOR PLYWOOD.
2. SPECIFICATIONS:
    A. UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION ARE TO BE GOVERNED BY THE LATEST REVISIONS OF:
        1. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
        2. U.S. PRODUCT STANDARD PS-1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD.
        3. APA DESIGN/CONSTRUCTION GUIDE - RESIDENTIAL AND COMMERCIAL.
3. CONNECTIONS:
    A. CONNECTIONS FOR WOOD MEMBERS SHALL BE MINIMALLY FASTENED AS PRESCRIBED IN TABLE 2304.10.1 OF THE REFERENCED BUILDING CODE UNLESS DETAILED OTHERWISE. ALL NAILS ARE TO BE COMMON WIRE NAILS, UNLESS SPECIFICALLY NOTED OTHERWISE.
    B. FOUNDATION PLATES ON CONCRETE OR MASONRY WALLS SHALL BE PRESSURE TREATED LUMBER, SYP #2 GRADE MINIMUM. SILLS SHALL BE ANCHORED TO CONCRETE OR MASONRY WITH ½" DIAMETER x 12" LONG ANCHOR BOLTS SPACED AT 48" O.C. MAXIMUM, UNLESS NOTED OTHERWISE. THERE SHALL BE A MINIMUM OF 3 BOLTS PER SILL PIECE WITH ONE BOLT LOCATED WITHIN 12" OF EACH END OF EACH PIECE. DO NOT PROVIDE A SILL PLATE SPLICE UNDER ANY POST OR STUD. SEE SHEARWALL SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
    C. JOISTS TO BEAMS OR JOISTS TO TRUSSES - 16 GA. STD. JOIST HANGERS, UNLESS SHOWN OTHERWISE. BEAMS TO BEAMS - 16 GA. BEAM HANGERS, UNLESS SHOWN OTHERWISE.
    D. ALL HANGERS, STRAPS, CAPS, BASES, HOLDOWNS, TIES OR OTHER CONNECTORS IN CONTACT WITH PRESSURE-TREATED LUMBER ARE TO BE BATCH/POST HOT DIPPED GALVANIZED PER ASTM A123 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316.
    E. ALL FASTENERS INCLUDING NAILS, ANCHOR BOLTS, POWDER ACTUATED FASTENERS, SCREWS, BOLTS, AND THREADED RODS, IN CONTACT WITH PRESSURE TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316. FASTENERS AND CONNECTORS ARE TO BE OF THE SAME MATERIAL, STAINLESS STEEL OR HOT DIPPED GALVANIZED, DO NOT MIX MATERIALS.
    F. ALL MECHANICAL ANCHORS INCLUDING WEDGE ANCHORS AND SLEEVE ANCHORS IN CONTACT WITH PRESSURE TREATED LUMBER ARE TO BE STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316.
    G. SHEATHING TO FRAMING:
        1. FLOORS - GLUED AND NAILED WITH ADHESIVES MEETING APA SPECIFICATIONS APG-01 AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, USE 10d COMMON NAILS AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS (UNO).
        2. ROOFS - USE 10d NAILS AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS (UNO).
        3. STUD WALLS - USE 8d COMMON OR GALVANIZED BOX NAILS AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS (UNO). SEE SHEARWALL SCHEDULES FOR ADDITIONAL FASTENING REQUIREMENTS.
        4. CFMF – USE 1-5/16" LONG #10-16 PILOT POINT SCREWS WITH WINGS.
        5. GYPSUM-SHEATHED WALLS - USE 6d COOLER OR No. 6 x 1-1/4" TYPE S OR W SCREWS AT 7" ON CENTER AT PANEL EDGES AND 7" ON CENTER AT INTERMEDIATE SUPPORTS (UNO).
    H. TRUSS TO WALL OR RAFTERS TO WALL - STANDARD HURRICANE ANCHORS AT EACH BEARING POINT. ADDITIONAL ANCHORS MAY BE REQUIRED BASED UPON FINAL LAYOUT AND DESIGN BY THE TRUSS MANUFACTURER DURING THE SHOP DRAWING PROCESS.
4. MISCELLANEOUS:
    A. PROVIDE ONE LINE OF SOLID BLOCKING OR CROSS BRIDGING AT 8'-0" O/C MAX. FOR ALL FLOOR JOISTS. USE SOLID BLOCKING AT ALL JOIST AND RAFTER BEARINGS.
    B. PROVIDE SOLID BLOCKING AT MID-HEIGHT OF WALLS FOR EACH OF THE FOLLOWING CONDITIONS: EXTERIOR STUD WALLS, INTERIOR BEARING PARTITIONS, AND ALL WALL FRAMING WHICH IS NOT SHEATHED ON EACH SIDE WITH GYPSUM OR WOOD SHEATHING.
    C. USE SINGLE JACK STUDS UNDER BEAM AND HEADER BEARINGS FOR ROUGH OPENINGS UP AND INCLUDING 4'-0", AND DOUBLE JACK STUDS UNDER BEAM AND HEADER BEARINGS FOR SPANS GREATER THAN 4'-0", UNLESS SHOWN OTHERWISE.
    D. APPLY CONTINUOUS BEAD OF GLUE ON JOISTS AND GROOVE OF TONGUE-AND-GROOVE PANELS.
    E. PROVIDE TEMPORARY CONSTRUCTION EXPANSION JOINTS IN ALL WOOD STRUCTURAL PANEL FLOOR AND ROOF DIAPHRAGMS IN 80'-0" MAXIMUM INTERVALS IN ACCORDANCE WITH AMERICAN PLYWOOD ASSOCIATION'S (APA) TECHNICAL DOCUMENT U425.
    F. BEFORE APPLYING FINISH FLOORING, SET NAILS 1/8" BUT DO NOT FILL, AND LIGHTLY SAND ANY SURFACE ROUGHNESS, PARTICULARLY AT JOINTS AND AROUND NAILS.
    G. EACH MEMBER OF MULTIPLE MEMBER BEAMS AND COLUMNS ARE TO BE NAILED TOGETHER WITH 2 ROWS OF 10d NAILS AT 6" ON CENTER, STAGGERED, THE FULL LENGTH OF THE MEMBER. FOR MULTIPLE MEMBER LVL OR LSL PRODUCTS, FOLLOW MINIMUM FASTENING REQUIREMENTS OF THE MANUFACTURER.

Jezerinac Geers
Structural Engineering

PROJECT NUMBER:	17.05.097
DESIGNED BY:	MI
DRAWN BY:	MM
CHECKED BY:	SRM
DOCUMENT STATUS:	☐ PROGRESS ☐ PERMIT ☐ BIDDING ■ CONSTRUCTION

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ISSUE:

NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION

DATE	04/03/2020
JOB NO.	3541.00
DRAWN	MJI
CHECKED	SRM
CAD	CAD

TITLE
GENERAL STRUCTURE NOTES

SHEET NO.
S0.01

ENGINEERED WOOD TRUSSES

1. MATERIALS:
   A. LUMBER: FIRE-RETARDANT-TREATED WOOD, GRADE AS REQUIRED BY THE TRUSS MANUFACTURER. MINIMUM GRADE TO BE SYP NO. 2 KD 15 PERCENT MC, EXCEPT FOR WEBS, WHICH MAY BE MINIMUM GRADE OF SYP NO. 3, KD 15 PERCENT MC.
   B. CONNECTIONS: ALL INTERNAL TRUSS CONNECTIONS ARE TO BE DESIGNED BY THE TRUSS MANUFACTURER. CONNECTORS ARE TO BE DEFORMED PLATE TYPE, OF MINIMUM 20 GAUGE GALVANIZED STEEL SHEET. ALL JOINTS ARE TO BE DESIGNED USING METHODS AS SET FORTH IN TPI STANDARDS.
   C. ALL HANGERS, STRAPS, CAPS, BASES, HOLDOWNS, TIES OR OTHER CONNECTORS IN CONTACT WITH PRESSURE-TREATED LUMBER ARE TO BE BATCH/POST HOT DIPPED GALVANIZED PER ASTM A123 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316.
   D. ALL FASTENERS INCLUDING NAILS, ANCHOR BOLTS, POWDER ACTUATED FASTENERS, SCREWS, BOLTS, AND THREADED RODS, IN CONTACT WITH PRESSURE TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316. FASTENERS AND CONNECTORS ARE TO BE OF THE SAME MATERIAL, STAINLESS STEEL OR HOT DIPPED GALVANIZED, DO NOT MIX MATERIALS.
   E. SPECIFICATIONS AND REFERENCE STANDARDS: UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION, ERECTION, HANDLING AND BRACING REQUIREMENTS ARE TO BE GOVERNED BY THE LATEST REVISIONS OF:
      1. NATIONAL DESIGN SPECIFICATIONS FOR STRESS-GRADE LUMBER AND ITS FASTENINGS.
      2. TIMBER CONSTRUCTION STANDARDS.
      3. DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES.
      4. TRUSS PLATE INSTITUTE PUBLICATION-BTW BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS EXCEPT AS NOTED BELOW.

2. DESIGN:
   A. ALL TRUSSES ARE TO BE DESIGNED BY THE TRUSS MANUFACTURER FOR THE FOLLOWING LOADS:
      ROOFS:
      - TOP CHORD DEAD LOAD: 15 PSF
      - TOP CHORD LIVE LOAD: 20 PSF
      - BOT. CHORD DEAD LOAD: 10 PSF
      - BOT. CHORD LIVE LOAD: 0 PSF

      SNOW LOADS: IN ACCORDANCE WITH ASCE 7-10 USING THE CRITERIA DEFINED IN THE "DESIGN LOADS" SECTION OF THE GENERAL STRUCTURAL NOTES. SNOW LOADS ARE TO INCLUDE THE EFFECTS OF "UNBALANCED SNOW LOADS FOR HIP AND GABLE ROOFS".
      WIND LOADS: IN ACCORDANCE WITH ASCE 7-10 USING THE CRITERIA DEFINED IN THE "DESIGN LOADS" SECTION OF THE GENERAL STRUCTURAL NOTES. TRUSSES ARE TO BE DESIGNED FOR "COMPONENTS AND CLADDING" WIND LOADS UNLESS NOTED OTHERWISE.

      OTHER LATERAL LOADS: SEE PLANS AND DETAILS FOR DRAG STRUT LOCATIONS AND LOADING REQUIREMENTS.

      SPECIAL LOADS: SEE PLANS AND ELEVATIONS FOR ADDITIONAL LOADS TO BE CONSIDERED IN THE TRUSS DESIGN.

   B. WHERE TRUSSES ARE REQUIRED TO FRAME INTO OTHER TRUSSES, DESIGN OF THE CONNECTIONS ARE TO BE THE RESPONSIBILITY OF THE TRUSS SUPPLIER. THE TRUSS SUPPLIER IS TO MAKE NECESSARY PROVISIONS IN THE SUPPORTING TRUSS TO ACCEPT THE TYPE OF HANGER REQUIRED.
   C. THE DESIGN OF ALL WEB MEMBER PERMANENT BRACING REQUIRED FOR THE STRUCTURAL ADEQUACY OF THE TRUSSES, IS TO BE THE SOLE RESPONSIBILITY OF THE TRUSS SUPPLIER.
   D. ADDITIONAL PERMANENT BRACE SIZES AND CONNECTIONS, NOT PROVIDED BY THE SHEATHING SHOWN ON THE CONSTRUCTION DRAWINGS, ARE TO BE THE SOLE RESPONSIBILITY OF THE TRUSS SUPPLIER. THIS BRACING CAN INCLUDE, BUT IS NOT LIMITED TO, TOP CHORD BRACING FOR TRUSSES WITH PIGGY-BACKS, AND INTERMEDIATE BRACES FOR GABLE TRUSS WEB MEMBERS.

3. SUBMITTALS:
   A. TRUSS DESIGNS ARE TO BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. TRUSS SUBMITTAL IS TO INCLUDE THE FOLLOWING INFORMATION:
   B. DESIGN INFORMATION FOR EACH TYPE OF TRUSS SUPPLIED.
   C. LAYOUT DRAWING INDICATING LOCATION OF EACH SPECIFIC TRUSS TYPE AND ANY PERMANENT HORIZONTAL BRACING MEMBERS.
   D. PERMANENT MEMBER BRACE LOCATIONS, BRACE SIZES, AND CONNECTIONS.
   E. TRUSS HANGER TYPE AND LOCATION, FOR ALL TRUSSES FRAMING INTO TRUSSES.
   F. TRUSS DESIGNS AND LAYOUT DRAWING STAMPED BY A REGISTERED PROFESSIONAL ENGINEER, IN THE STATE OF PROJECT LOCATION.
   G. SUBMITTALS WHICH DO NOT INCLUDE THE ABOVE LISTED INFORMATION WILL BE RETURNED TO THE CONTRACTOR PRIOR TO REVIEW.

4. MISCELLANEOUS:
   A. ALL GIRDER TRUSSES ARE TO BE 2-PLY MINIMUM.
   B. UNLESS SPECIFICALLY NOTED OTHERWISE ON THE APPROVED TRUSS SHOP DRAWINGS, ALL MEMBERS OF MULTIPLE TRUSSES ARE TO BE NAILED TOGETHER WITH 10d COMMON NAILS AT 8" O.C., FOR DOUBLE TRUSSES, OR WITH 16d COMMON NAILS AT 8" O.C. FROM EACH SIDE, FOR TRIPLE TRUSSES.

POST-INSTALLED ANCHOR SYSTEMS

1. GENERAL:
   A. PROVIDE ANCHORAGE MATCHING MANUFACTURER, TYPE, DIAMETER, EMBEDMENT, AND BASE MATERIAL AS INDICATED ON DOCUMENTS.
   B. SUBSTITUTION OF ANCHORS FROM THOSE SPECIFIED ARE ONLY ALLOWED AFTER ENGINEER REVIEW AND APPROVAL FROM WRITTEN REQUEST.
   C. ALL POST-INSTALLED ANCHORS TO BE HAMMER DRILLED. FOLLOW ALL HOLE CLEANING AND INSTALLATION INSTRUCTIONS AS STIPULATED BY THE ANCHOR MANUFACTURER.
   D. INSTALLATION OF ADHESIVE ANCHORS MUST BE PERFORMED BY PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS THROUGH MANUFACTURER TRAINING PROGRAMS.
   E. INSTALLATION OF ADHESIVE ANCHORS IN THE HORIZONTAL OR UPWARDLY INCLINED ORIENTATION AND WHERE SUPPORTING SUSTAINED TENSION LOADS SHALL BE INSTALLED BY CERTIFIED PERSONNEL BY ACI/CRSI INSTALLATION PROGRAMS.
   F. MINIMUM CONCRETE AGE FOR POST-INSTALLED ADHESIVE ANCHORS SHALL BE NOT LESS THAN 28 DAYS.
   G. ALL ANCHORS IN CONTACT WITH PRESSURE TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316. FASTENERS AND CONNECTORS ARE TO BE OF THE SAME MATERIAL, STAINLESS STEEL OR HOT DIPPED GALVANIZED, DO NOT MIX MATERIALS.

2. ANCHORAGE TO CONCRETE
   A. ACCEPTABLE MECHANICAL ANCHORAGE SYSTEMS:
      1. DEWALT POWER STUD +SDI WEDGE EXPANSION ANCHOR
      2. DEWALT SCREW-BOLT+
      3. HILTI KWIK BOLT 3 EXPANSION ANCHOR
      4. HILTI KWIK BOLT TZ EXPANSION ANCHOR
      5. HILTI KWIK HUS-EZ SCREW ANCHOR
      6. HILTI HLC SLEEVE ANCHOR ** NOTE: DOES NOT HAVE ICC APPROVAL AND ARE NOT TO BE USED TO SECURE MAIN BUILDING FRAME COMPONENTS **
      7. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR
      8. SIMPSON TITEN HD SCREW ANCHOR
   B. ACCEPTABLE ADHESIVE ANCHORAGE SYSTEMS:
      1. DEWALT AC200+ ADHESIVE FOR REINFORCING BAR
      2. DEWALT PURE50+ ADHESIVE FOR THREADED ROD AND REINFORCING BAR
      3. DEWALT PURE110+ ADHESIVE FOR THREADED ROD AND REINFORCING BAR
      4. HILTI HIT-HY 200 ADHESIVE FOR THREADED ROD, REINFORCING BAR, AND HILTI SPECIFIC ROD AND INSERT SYSTEMS.
      5. SIMPSON AT-XP ADHESIVE FOR THREADED ROD AND REINFORCING BAR

3. ANCHORAGE TO CONCRETE MASONRY OR BRICK MASONRY AS INDICATED:
   A. FOLLOW ALL MANUFACTURERS INSTALLATION INSTRUCTIONS IN REGARD TO LOCATION OF ANCHORS AWAY FROM HEAD JOINTS, MINIMUM EDGE DISTANCES, AND MINIMUM ANCHOR SPACING.
   B. ACCEPTABLE MECHANICAL ANCHORAGE SYSTEMS:
      1. DEWALT POWER STUD +SDI WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
      2. DEWALT SCREW-BOLT+ IN GROUT FILLED OR SOLID CONCRETE MASONRY AND BRICK MASONRY
      3. HILTI KWIK BOLT 3 EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
      4. HILTI KWIK HUS-EZ SCREW ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
      5. HILTI HLC SLEEVE ANCHOR FOR GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY AND CLAY BRICK ** NOTE: DOES NOT HAVE ICC APPROVAL AND ARE NOT TO BE USED TO SECURE MAIN BUILDING FRAME COMPONENTS **
      6. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
      7. SIMPSON TITEN HD SCREW ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY
   C. ACCEPTABLE ADHESIVE ANCHORAGE SYSTEMS:
      1. DEWALT AC100+ GOLD FOR THREADED ROD AND REINFORCING BAR IN GROUT FILLED MASONRY CONSTRUCTION. USE WITH SCREEN TUBES IN HOLLOW MASONRY CONSTRUCTION.
      2. HILTI HIT-HY 270 ADHESIVE FOR THREADED ROD, REINFORCING BAR, AND HILTI SPECIFIC ROD AND INSERT SYSTEMS IN GROUT FILLED OR SOLID CONCRETE MASONRY CONSTRUCTION. USE WITH SCREEN TUBES IN HOLLOW MASONRY, MULIT-WYTHE MASONRY, OR BRICK WITH HOLES CONSTRUCTION.
      3. SIMPSON SET-XP ADHESIVE FOR THREADED ROD AND REINFORCING BAR IN GROUT FILLED, SOLID, AND HOLLOW CONCRETE MASONRY.

IN ACCORDANCE WITH CHAPTER 17 OF THE REFERENCE BUILDING CODE, THE OWNER SHALL EMPLOY INSPECTION AGENCIES TO PERFORM SPECIAL INSPECTIONS DURING CONSTRUCTION INCLUDING INSPECTIONS OF SHOP-FABRICATED ITEMS WHEN APPLICABLE. ALL INSPECTION AGENCIES, INCLUDING FABRICATION FACILITIES, WHEN REQUIRED, SHALL BE QUALIFIED AND APPROVED BY THE BUILDING OFFICIAL. REFER TO OTHER DISCIPLINES FOR SPECIAL INSPECTIONS OF NON-STRUCTURAL SYSTEMS.

TABLE 1 STATEMENT OF SPECIAL INSPECTIONS FOR STRUCTURAL DISCIPLINE

REQUIRED SPECIAL INSPECTIONS AND TESTS FOR SOILS		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	X	--
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	---	X
2. INSPECT ANCHORS CAST IN CONCRETE.	---	X
3. VERIFY USE OF REQUIRED DESIGN MIX.	---	X
4. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---

"LEVEL B" QUALITY ASSURANCE REQUIRED SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION		
MINIMUM TESTS		
VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH ARTICLE 1.5.B.1.b.3 FOR SELF CONSOLIDATING GROUT		
MINIMUM SPECIAL INSPECTION		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS.	---	X
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
A. PROPORTIONS OF SITE-PREPARED MORTAR.	---	X
B. CONSTRUCTION OF MORTAR JOINTS.	---	X
C. LOCATION OF REINFORCEMENT AND CONNECTORS.	---	X
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
A. GROUT SPACE.	---	X
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS.	---	X
C. PLACEMENT OF REINFORCEMENT AND CONNECTORS.	---	X
D. PROPORTIONS OF SITE-PREPARED GROUT.	---	X
E. CONSTRUCTION OF MORTAR JOINTS.	---	X
4. VERIFY DURING CONSTRUCTION:		
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	---	X
B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	---	X
C. WELDING OF REINFORCEMENT.	---	X
D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F)	---	X
E. PLACEMENT OF GROUT.	---	X
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	---	X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF COLD-FORMED STEEL — LIGHT FRAME CONSTRUCTION		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. SCREW ATTACHMENT, BOLTING, ANCHORING, AND OTHER FASTENING OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS.	---	X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF WOOD CONSTRUCTION		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
2. METAL-PLATE-CONNECTED TRUSSES A. VERIFY TEMPORARY RESTRAINT/BRACING AND PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING INSTALLED.	---	X

TABLE 2 STATEMENT OF SPECIAL INSPECTIONS FOR STRUCTURAL DISCIPLINE

REQUIRED SPECIAL INSPECTIONS AND TESTS FOR STEEL DECK		
TYPE	PERFORM	OBSERVE
1. INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT:		
A. VERIFY COMPLIANCE OF MATERIALS (DECK AND DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS.	X	---
B. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES.	X	---
2. INSPECTION OR EXECUTION TASKS AFTER WELDING:		
A. VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS.	X	---
B. WELDS MEET VISUAL ACCEPTANCE CRITERIA.	X	---
C. VERIFY REPAIR ACTIVITIES.	X	---
D. DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	X	---

STEEL DECK INSPECTION NOTES:
1. "PERFORM" — SHALL MEAN TO PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT.
2. "OBSERVE" — SHALL MEAN TO INSPECT THESE ITEMS ON AN INTERMITTENT BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS. IN THE EVENT THAT OBSERVATIONS DETERMINE THAT THE MATERIALS AND/OR WORKMANSHIP ARE NOT IN CONFORMANCE WITH THE APPLICABLE DOCUMENTS, ADDITIONAL INSPECTIONS SHALL BE PERFORMED TO DETERMINE THE EXTENT OF NON-CONFORMANCE.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL CONSTRUCTION		
TYPE	PERFORM	OBSERVE
1. INSPECTION TASKS PRIOR TO WELDING:		
A. WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS.	---	X
B. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY):		
• JOINT PREPARATIONS.	---	X
• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL.	---	X
• CLEANLINESS (CONDITION OF STEEL SURFACES).	---	X
• TACKING (TACK WELD QUALITY AND LOCATION),	---	X
• BACKING TYPE AND FIT (IF APPLICABLE).	---	X
3. INSPECTION TASKS AFTER WELDING:		
A. WELDS CLEANED.	---	X
B. SIZE, LENGTH, AND LOCATION OF WELDS	X	---
C. WELDS MEET VISUAL ACCEPTANCE CRITERIA:		
• CRACK PROHIBITION	X	---
• WELD /BASE-METAL FUSION	X	---
• CRATER CROSS SECTION	X	---
• WELD PROFILES	X	---
• WELD SIZE	X	---
• UNDERCUT	X	---
• POROSITY	X	---
D. REPAIR ACTIVITIES.	X	---
E. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER.	X	---
F. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR.	---	X
G. NON-DESTRUCTIVE TESTING FOR COMPLETE-JOINT-PENETRATION (CJP) WELDS:		
• UT SHALL BE PERFORMED ON ALL CJP JOINTS IN MATERIAL 5/16" AND GREATER.	X	---
4. INSPECTION TASKS AFTER BOLTING:		
A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	X	---
5. ANCHOR ROD PLACEMENT		
A. INSPECTION DURING PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS (ANCHOR DIAMETER, GRADE, TYPE, AND LENGTH OF THE ANCHOR ROD OR EMBEDED ITEM AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE) PRIOR TO PLACEMENT OF CONCRETE.	---	X
8. INSPECTION OF THE FABRICATED STEEL OR ERECTED STEEL FRAME IN COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS.	---	X

STRUCTURAL STEEL INSPECTION NOTES:
1. "PERFORM" — THESE TASKS SHALL BE PERFORMED FOR EACH WELDED/BOLTED JOINT OR MEMBER
2. "OBSERVE" — THE INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE.

LAP SPLICE SCHEDULE FOR CONCRETE REINFORCING
3,000 psi & 3,500 psi CONCRETE UNCOATED REINFORCING BARS

BAR SIZE	3/4" CLR.		1 1/2" CLR. AND GREATER	
#4	3'-1"	2'-4"	3'-1"	2'-4"
#5	3'-10"	3'-0"	3'-10"	3'-0"
#6	4'-8"	3'-7"	4'-8"	3'-7"
#7	7'-6"	5'-9"	6'-9"	5'-2"
#8	9'-3"	7'-1"	7'-9"	5'-11"
#9	11'-2"	8'-7"	8'-8"	6'-8"
#10	13'-6"	10'-4"	9'-10"	7'-6"
#11	15'-10"	12'-2"	10'-11"	8'-4"

LAP SPLICE SCHEDULE FOR CONCRETE REINFORCING
4,000 psi & 4,500 psi CONCRETE UNCOATED REINFORCING BARS

BAR SIZE	3/4" CLR.		1 1/2" CLR. AND GREATER	
#4	2'-8"	2'-1"	2'-8"	2'-1"
#5	3'-4"	2'-7"	3'-4"	2'-7"
#6	4'-0"	3'-1"	4'-0"	3'-1"
#7	6'-6"	5'-0"	5'-10"	4'-6"
#8	8'-0"	6'-2"	6'-8"	5'-2"
#9	9'-8"	7'-6"	7'-6"	5'-10"
#10	11'-8"	9'-0"	8'-6"	6'-6"
#11	13'-8"	10'-6"	9'-5"	7'-3"

LAP SPLICE SCHEDULE FOR MASONRY REINFORCING

BAR SIZE	6" CMU	8" CMU	10" CMU	12" CMU
#4	2'-0"	2'-0"	2'-0"	2'-0"
#5	2'-7"	2'-6"	2'-6"	2'-6"
#6	5'-0"	3'-7"	3'-3"	3'-3"
#7	-	4'-11"	3'-10"	3'-10"
#8	-	* 7'-7"	* 5'-10"	5'-0"
#9	-	-	* 7'-6"	* 6'-1"

1. " * " INDICATES LAP LENGTH GREATER THAN MAXIMUM ALLOWABLE HEIGHT OF 5'-0" FOR LOW-LIFT GROUTING.
3. APPLICABLE ONLY FOR BARS CENTERED IN MASONRY CELL.
4. APPLICABLE ONLY FOR 60 KSI STEEL AND ASTM C90 BLOCK.

REINFORCING COVER/TOLERANCE
(#3 - #11 BARS)

EXPOSURE CONDITION	MIN. COVER (U.N.O.)	PLACEMENT TOLERANCE
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"	0", +3"
EXPOSED TO EARTH OR WEATHER - #5 AND SMALLER BARS: - #6 AND LARGER BARS:	1-1/2" 2"	-1/4", +1/2" -1/4", +1/2"
NEITHER EXPOSED TO WEATHER, NOR IN CONTACT WITH GROUND - SLABS AND WALLS: - BEAMS, COLUMNS, & PIERS: (TO TIES OR STIRRUPS)	3/4" 1-1/2"	-1/4", +3/8" -1/4", +1/2"

"-" INDICATES TOLERANCE TOWARDS MEMBER FACE.
"+" INDICATES TOLERANCE AWAY FROM MEMBER FACE

1. TOP BARS / OTHER BARS — TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.
2. BAR SPACING TO BE A MINIMUM OF THREE DIAMETERS UNLESS NOTED OR SCHEDULED OTHERWISE
3. APPLICABLE ONLY FOR 60 KSI STEEL AND NORMAL WEIGHT CONCRETE.
4. IN LIEU OF LAP SPLICING, BARS MAY BE SPLICED BY MECHANICAL MEANS WHICH DEVELOP AT LEAST 125% OF THE BAR'S SPECIFIED YIELD STRENGTH.

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ISSUE:

NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION

DATE	04/03/2020
JOB NO.	3541.00
DRAWN	MJI
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CAD	CAD

TITLE
GENERAL STRUCTURE NOTES

SHEET NO.
S0.02

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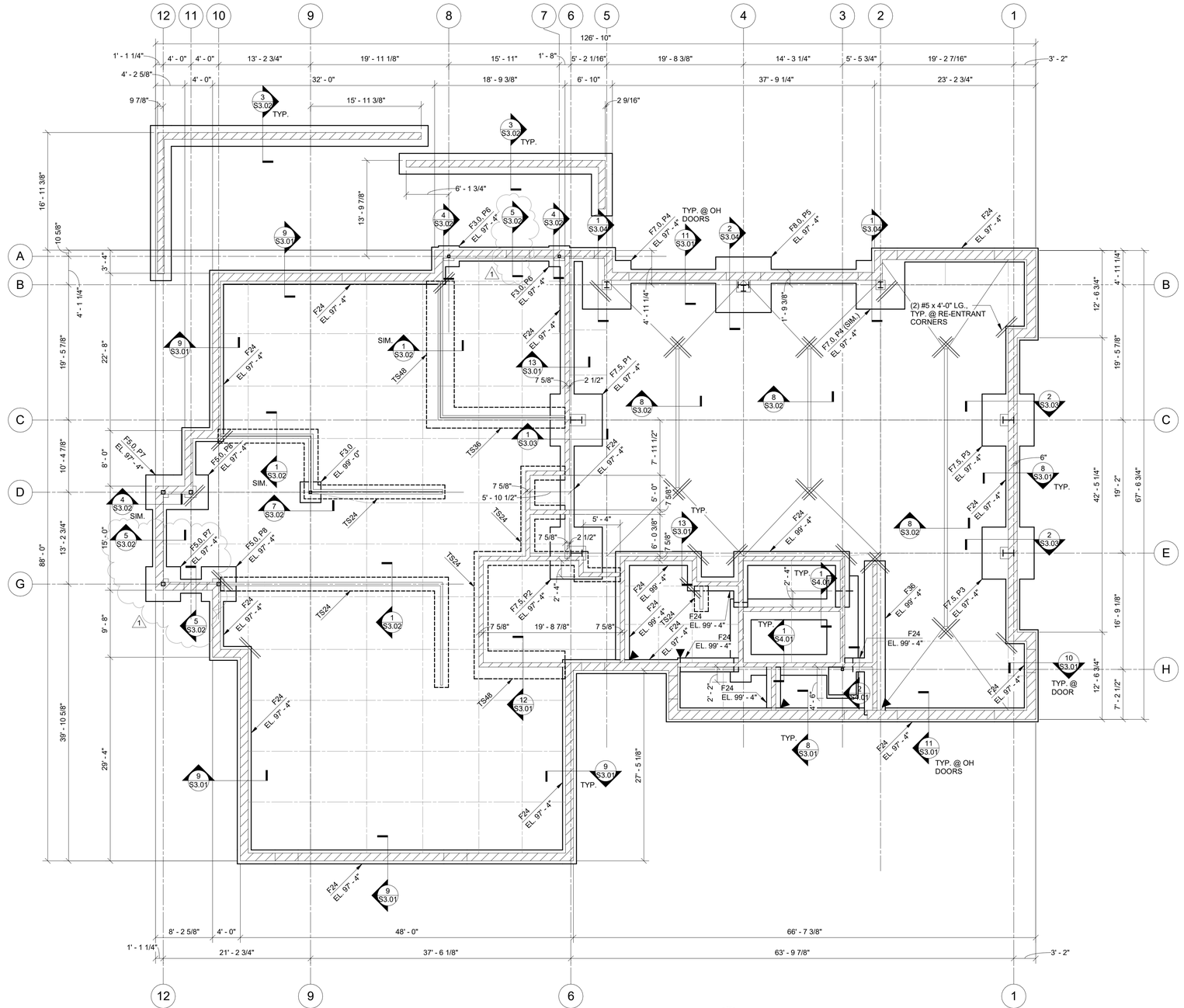

FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION NOTES

1. ▼ INDICATES FOOTING STEP PER SECTION 1/S3.01. STEP AT A RATIO NOT TO EXCEED ONE VERTICAL TO TWO HORIZONTAL.

2. ( ) INDICATES APPROXIMATE INVERT DEPTH OF UNDERGROUND UTILITIES. COORDINATE THE LOCATION AND DEPTH OF ALL UNDERGROUND MECHANICAL, ELECTRICAL, PLUMBING, AND/OR CIVIL WORK PRIOR TO CONSTRUCTION. NOT ALL UNDERGROUND UTILITIES ARE SHOWN ON THE STRUCTURAL DRAWINGS. FOUNDATIONS BUILT PRIOR TO THE INSTALLATION OF UNDERGROUND UTILITIES ARE TO BE STEPPED OR DROPPED COMPLETELY BELOW THE UTILITY DEPTH PER SECTION 9/S3.01. WHERE UNDERGROUND UTILITIES ARE IN PLACE PRIOR TO FOUNDATION CONSTRUCTION, THEY ARE TO BE ENCASED PER SECTION 2/S3.01. SEE SECTION 4/S3.01 FOR TRENCH EXCAVATION AND UTILITY PLACEMENT REQUIREMENTS FOR WORK THAT IS LAID ADJACENT TO FOOTINGS.

3. INDICATES SLAB CONTROL/CONSTRUCTION JOINT PER SECTION 6/S3.01. CONTROL JOINTS ARE TO BE LOCATED IN AREAS SHOWN AT A SPACING NOT TO EXCEED 12'-0" O.C. UNLESS DIMENSIONED OTHERWISE. DISTANCE BETWEEN SLAB CONSTRUCTION JOINTS IS NOT TO EXCEED 100 FEET IN ANY DIRECTION. COORDINATE CONTROL JOINT LAYOUT WITH ARCHITECTURAL FLOOR FINISH REQUIREMENTS INCLUDING THIN-SET TERRAZZO ZINC STRIP PATTERNS.

4. INDICATES THICKENED SLAB PER SECTION 1/S3.02. PROVIDE THICKENED SLABS FOR ALL NON-BEARING MASONRY WALLS OVER 14'-0" TALL UNLESS SHOWN OR NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR THE LOCATION OF ALL MASONRY WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

5. PROVIDE VERTICAL MASONRY WALL REINFORCING AS INDICATED ON PLAN. ALL REINFORCING IS TO RUN FULL HEIGHT OF WALL UNLESS NOTED OTHERWISE. WHERE VERTICAL REINFORCING IS INTERRUPTED BY OPENING IN WALL (WINDOW, LOUVER, ETC.) PROVIDE ONE FULL-HEIGHT REINFORCING BAR AT EACH JAMB FOR EACH 6'-0" OF OPENING WIDTH. SEE SCHEDULE ON SHEET S0.02 FOR LENGTH OF LAP SPLICES.

6. DESIGN SOIL BEARING PRESSURE = 3000 PSF BASED ON GEOTECHNICAL EXPLORATION REPORT BY PROFESSIONAL SERVICE INDUSTRIES, INC. DATED APRIL 10, 2018. REFERENCE THIS REPORT FOR ANY REQUIRED SOIL REMEDIATION PRIOR TO FOUNDATION AND/OR SLAB-ON-GRADE CONSTRUCTION. FOOTING EXCAVATIONS MAY BE REQUIRED TO EXTEND THROUGH EXISTING FILL REGIONS IN ORDER TO BEAR ON SUITABLE MATERIAL. OVER-EXCAVATIONS ARE TO BE FILLED WITH LEAN CONCRETE UP THE PLANNED BOTTOM OF FOOTING ELEVATION. PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.

7. SLAB CONSTRUCTION: APPARATUS BAY (SEE PLAN FOR EXTENT)

   8" CONCRETE SLAB ON GRADE W/ #5 @ 18" O.C. EACH WAY, OVER 15-MIL. VAPOR BARRIER, OVER 6" COMPACTED STONE SUBBASE. REINFORCEMENT IS TO BE SUPPORTED DURING CONCRETE PLACEMENT ON CHAIRS OR BOLSTERS AT MID-DEPTH OF SLAB. SEE PLAN FOR FINISHED FLOOR ELEVATIONS. COORDINATE TOP OF SLAB ELEVATION WITH THICKNESS OF ARCHITECTURAL FINISHED FLOOR PRODUCTS AND FLOOR DRAINS.

8. SLAB CONSTRUCTION: ALL OTHER AREAS

   4" CONCRETE SLAB ON GRADE W/ 6x6 W2.9/W2.9 WWF, OVER 15-MIL. VAPOR BARRIER, OVER 4" COMPACTED STONE SUBBASE. MESH IS TO BE SUPPORTED DURING CONCRETE PLACEMENT ON CHAIRS OR BOLSTERS AT MID-DEPTH OF SLAB. SEE PLAN FOR FINISHED FLOOR ELEVATIONS. COORDINATE TOP OF SLAB ELEVATION WITH THICKNESS OF ARCHITECTURAL FINISHED FLOOR PRODUCTS.

9. BOTTOM OF FOOTINGS ARE TO BE AT LEAST 32-INCHES BELOW THE ADJACENT EXTERIOR FINISHED GRADE FOR FROST PROTECTION.

10. KEEP FOUNDATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.

11. ELEVATIONS SHOWN ON FOOTINGS INDICATE ELEVATION AT TOP OF FOOTING. REFERENCE ELEVATION/TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLANS. COORDINATE ABSOLUTE ELEVATION OF TOP OF SLAB WITH SITE DRAWINGS.

12. PROVIDE CORNER BARS AT ALL FOOTING AND CONCRETE WALL INTERSECTIONS PER SECTION 5/S3.01.

13. SEE ELEVATION ON 1/S2.01 FOR TYPICAL REINFORCED MASONRY WALL CONSTRUCTION. PROVIDE CORNER BARS AT ALL MASONRY BOND BEAM INTERSECTIONS PER SECTION 2/S2.01. POSITION SINGLE-LAYER AND DOUBLE-LAYER VERTICAL REINFORCING BARS PER SECTION 3/S2.01. INSTALL VENEER LEDGE ANGLES PER SECTION 1/S2.02. PROVIDE CONTROL JOINTS IN ALL MASONRY WALLS AT A SPACING NOT TO EXCEED THREE TIMES THE WALL HEIGHT OR 24 FEET ON CENTER, WHICHEVER IS SMALLER. IN ADDITION, PROVIDE CONTROL JOINTS AT THE ENDS OF LINTELS, CHANGES IN WALL HEIGHT, CHANGES IN WALL THICKNESS, WITHIN 2 FEET OF WALL CORNERS AND INTERSECTIONS, TRANSITIONS FROM INTERIOR WALL TO EXTERIOR WALL, AND TRANSITIONS FROM WALL BEARING ON FOUNDATION TO WALL BEARING ON FLOOR SLAB.

14. SEE SECTION 10/S3.01 FOR TYPICAL INTERIOR TO EXTERIOR SLAB ON GRADE CONSTRUCTION AT DOOR OPENINGS.

15. SEE SECTIONS 6/S3.02 AND 14/S3.01 FOR TYPICAL OUTDOOR AND INDOOR MECHANICAL EQUIPMENT PADS.

16. SEE SHEET S3.03 FOR PIER DETAILS.

17. SEE SHEET S0.01 FOR GENERAL STRUCTURAL INFORMATION.

18. COORDINATE FLOOR DRAIN LOCATIONS WITH PLUMBING DRAWINGS.

CONT. WALL FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCING
F24	2' - 0"	1' - 0"	(2) #5 CONT.
F36	3' - 0"	1' - 2"	(3) #5 CONT.
F54	4' - 6"	2' - 0"	(8) #6 CONT.
TS24	2' - 0"	1' - 0"	(2) #5 CONT.
TS36	3' - 0"	1' - 6"	(3) #6 CONT.
TS48	4' - 0"	1' - 6"	(4) #6 CONT.

SPREAD FOOTING SCHEDULE

MARK	WIDTH	LENGTH	THICKNESS	REINFORCING
F3.0	3' - 0"	3' - 0"	1' - 0"	(4) #4 EA. WAY
F4.0	4' - 0"	4' - 0"	2' - 0"	(4) #5 E.W. T&B
F5.0	5' - 0"	5' - 0"	1' - 0"	(5) #5 EA. WAY
F7.0	7' - 0"	7' - 0"	1' - 6"	(7) #6 EA. WAY
F7.5	7' - 6"	7' - 6"	1' - 6"	(7) #6 EA. WAY
F8.0	8' - 0"	8' - 0"	1' - 6"	(8) #6 EA. WAY

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DATE	04/03/2020
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CAD	CAD

TITLE
FOUNDATION PLAN

SHEET NO.
S1.11

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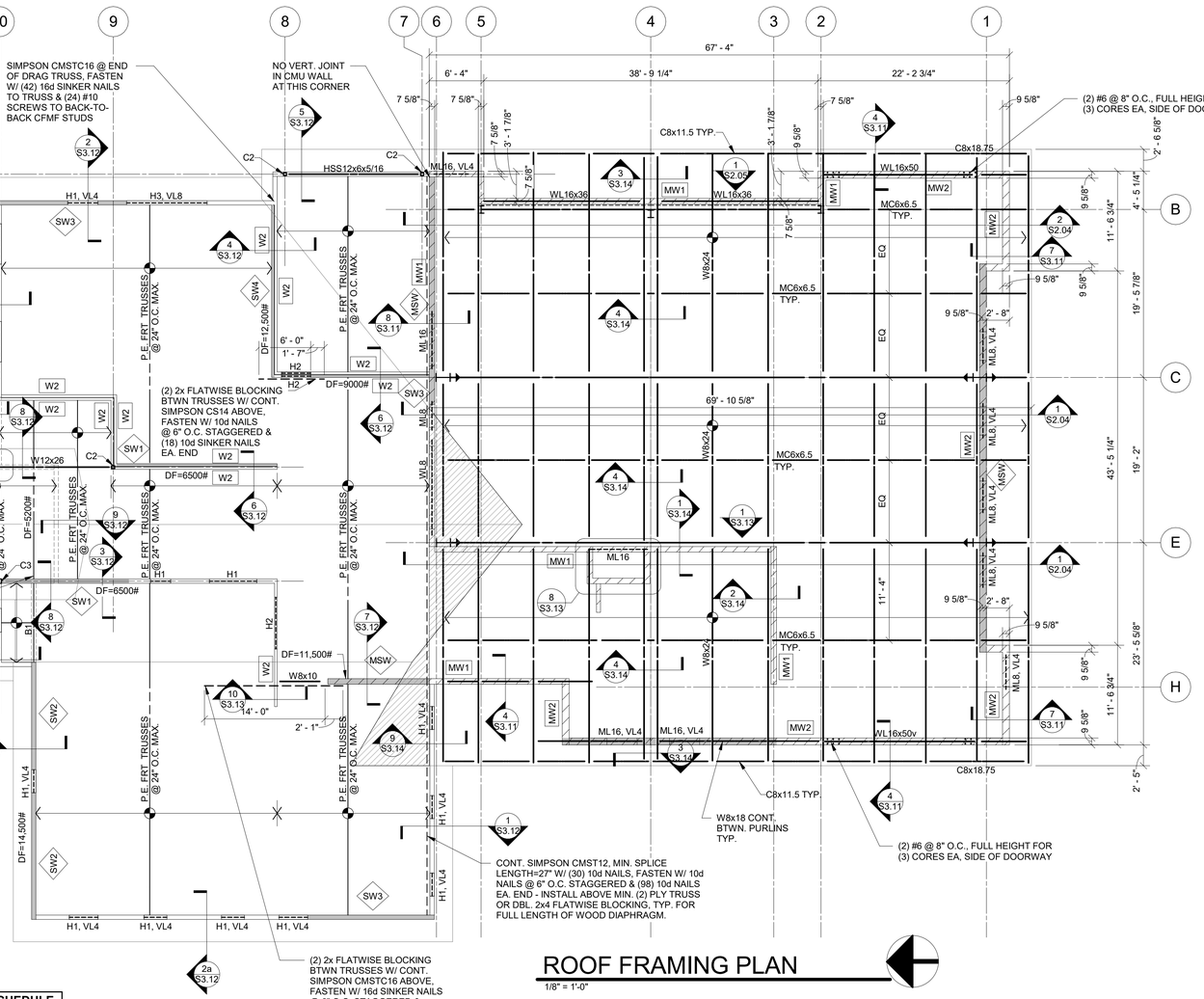


ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING NOTES

1. DESIGN LIVE/SNOW LOADS:

FLAT ROOF LIVE	20 PSF
FLAT ROOF SNOW	24 PSF + DRIFT
PITCHED ROOF LIVE	20 PSF
PITCHED ROOF SNOW (BALANCED)	20.2 PSF + DRIFT
PITCHED ROOF SNOW (UNBALANCED)	6.0 PSF (WINDWARD) 20.2 PSF (LEEWARD) 16.7 PSF (ADD'L LEEWARD SNOW, APPLY OVER 6'-6"LENGTH FROM RIDGE; REFERENCE ASCE 7-10, FIGURE 7-5)
WIND (NET UPLIFT)	-25 PSF

2. NEW ROOF CONSTRUCTION:

   2" x 20 GA DOVETAIL METAL DECK (BASIS OF DESIGN = VERSA-DEK LS ES, 20 GA). SEE SECTION 9/S3.11 FOR TYPICAL ATTACHMENT TO SUPPORTING STRUCTURE.

   5/8" NOMINAL APA RATED FRT SHEATHING, EXPOSURE 1, WITH A 32/16 MINIMUM SPAN RATING. PROVIDE 10d COMMON NAILS AT 6" O.C. AT ALL PANEL EDGES AND 12" O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PANEL EDGES NEED NOT BE BLOCKED UNLESS NOTED OR DETAILED OTHERWISE.

3. INDICATES ROOF OPENING. DETERMINE EXACT SIZE AND LOCATION FROM ARCHITECTURAL AND MECHANICAL DRAWINGS. NOT ALL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. SEE SECTION 7/S3.13 FOR FRAMING OF ALL OPENINGS EQUAL TO OR GREATER THAN 12" SQUARE OR DIAMETER. ADDITIONAL FRAMING IS NOT REQUIRED FOR OPENINGS LESS THAN 12" SQUARE. SIZE OF OPENING IS NOT TO EXCEED THE TYPICAL CLEAR DISTANCE BETWEEN FRAMING MEMBERS OR TRUSSES. NOTIFY THE ARCHITECT BEFORE PROCEEDING IF OPENINGS CANNOT BE FIT BETWEEN FRAMING MEMBERS.

4. INDICATES MOMENT CONNECTION PER SECTION 5/S3.11 (COLUMN-TO-BEAM).

5. < > INDICATES UNFACTORED BEAM REACTION IN KIPS. FABRICATOR TO PROVIDE CONNECTION ADEQUATE TO SUPPORT LOAD GIVEN. WHERE REACTIONS ARE NOT GIVEN, DESIGN NON-COMPOSITE BEAM CONNECTIONS FOR 100% OF THE UNIFORM LOAD CAPACITY LISTED IN THE THIRTEENTH EDITION AISC MANUAL, TABLE 3-6. COMPOSITE BEAM CONNECTIONS ARE TO BE DESIGNED FOR 100% OF THE UNIFORM LOAD CAPACITY.

6. INDICATES INFILL FRAMING LOCATION. VALLEY SET TRUSSES MAY BE SUBSTITUTED AT CONTRACTOR'S OPTION. INFILL FRAMING IS TO UNIFORMLY DISTRIBUTE LOADING TO UNDERLYING ROOF WITH A MAXIMUM SUPPORT SPACING OF 2'-0". DO NOT STICK-BUILD WITH RIDGE BEAM AND RAFTERS.

7. X INDICATES BEARING LENGTH IN INCHES OR BEARING PLATE TYPE PER SCHEDULE. WHERE NO BEARING PLATE IS SPECIFICALLY INDICATED, PROVIDE 1/4" SETTING PLATE AND 3/4" ANCHOR BOLTS AS SHOWN IN SECTIONS 1/S2.03 AND 2/S2.03.

8. TOP OF STRUCTURAL STEEL, JOIST BEARING, OR TRUSS BEARING ELEVATION NOTED ON PLAN. REFERENCE ELEVATION 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE.

9. CAMBER IS NOT REQUIRED IN STEEL BEAMS UNLESS INDICATED BY "C= ".

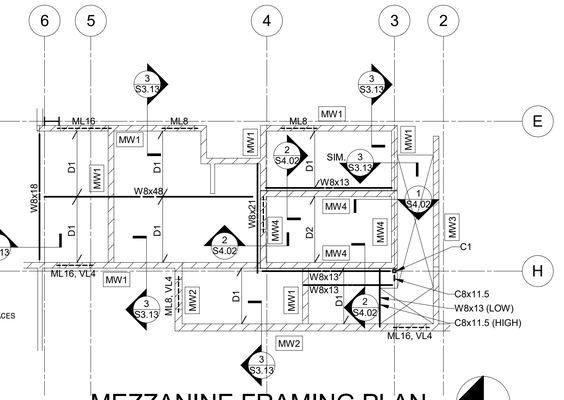
10. ALL STRUCTURAL STEEL, GUARDRAILS, GRATING, LADDERS, ETC. EXPOSED TO WEATHER ARE TO BE HOT-DIP GALVANIZED.

11. SEE SHEET SO.01 FOR GENERAL STRUCTURAL INFORMATION.

DECK SCHEDULE

MARK	DECK TYPE	CONC. THICKNESS	TOTAL SLAB THICKNESS	REINF.
D1	1-1/2" x 18 GA. COMP. MTL. DECK (1.5VL18)	2-1/2"	4"	6x6-W1.4/1.4 WWF.
D2	8" CONCRETE	8"	8"	#5 @ 12" O.C. E.W. T&B

NOTES:
1. METAL DECK DESIGN BASED ON VULCRAFT DECK TYPE INDICATED IN PARENTHESES. SUBSTITUTION MUST MEET OR EXCEED THE SECTION PROPERTIES PUBLISHED BY VULCRAFT.



MEZZANINE FRAMING PLAN

1/8" = 1'-0"

FLOOR FRAMING NOTES

1. DESIGN LIVE LOADS:

MEZZANINE/STORAGE (LIGHT)	125 PSF
STAIRS AND EXITS	100 PSF

COLD-FORMED METAL FRAMING WALL SCHEDULE

MARK	SIZE & SPACING	REMARKS
W1	600S200-54 @ 16" O.C.	TYP. U.N.O.
W2	362S162-68 @ 16" O.C.	

COLUMN SCHEDULE

MARK	MEMBER	BASE PLATE SIZE	BASE PLATE TYPE	ANCHOR BOLT TYPE
C1	HSS4x4x1/4	3/4"x12"x12"	B	AB1
C2	HSS4x4x1/4	3/4"x12"x12"	A	AB1
C3	HSS6x6x3/8	1-1/8"x14"x14"	A	AB1

CFMF BEAM SCHEDULE

MARK	HEADER TYPE	HEADER	CONNECTION SCREWS	JAMB STUDS	NOTES
B1	2	(2) 1000S162-68 W/ 600T125-68 T&B	(10) #10 SCREWS	(2) 600S162-68 (BOXED)	

HEADER SCHEDULE

MARK	HEADER TYPE	HEADER	CONNECTION SCREWS	JAMB STUDS	NOTES
H1	1	(2) 600S162-54 W/ 600T125-54 T&B	(6) #10 SCREWS	(2) 600S162-54 (BOXED)	
H2	1	(2) 600S162-54 W/ 362T125-54 T&B	(6) #10 SCREWS	(2) 362S162-54 (BOXED)	
H3	2	(2) 1000S162-68 W/ 600T125-68 T&B	(10) #10 SCREWS	(2) 600S162-68 (BOXED)	

WALL NOTES

1. TYPICAL EXTERIOR WALL SHEATHING:

   5/8" GYPSUM WALLBOARD. PROVIDE No. 6 x 1-1/4" SELF-DRILLING SCREWS AT 7" O.C. AT ALL PANEL EDGES AND 7" O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PANEL EDGES NEED NOT BE BLOCKED UNLESS NOTED OR DETAILED OTHERWISE.

2. TYPICAL INTERIOR WALL SHEATHING:

   5/8" GYPSUM WALLBOARD. PROVIDE No. 6 x 1-1/4" SELF-DRILLING SCREWS AT 7" O.C. AT ALL PANEL EDGES AND 7" O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PANEL EDGES NEED NOT BE BLOCKED UNLESS NOTED OR DETAILED OTHERWISE.

3. # INDICATES SHEAR WALL WITH FLAT STRAP BRACING. SEE SHEAR WALL SCHEDULE AND ELEVATIONS ON SHEET S2.02 FOR FASTENING AND ANCHORAGE REQUIREMENTS. DO NOT PROVIDE VERTICAL CONTROL JOINTS WITHIN HATCHED AREA OF MASONRY SHEAR WALLS (MSW).

4. ML(d) INDICATES MASONRY BOND BEAM LINTEL PER DETAIL 4/S2.01. USE STANDARD BOND BEAM LINTELS FOR ALL OPENINGS IN MASONRY WALLS UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR LOCATION, WIDTH, AND ELEVATION OF ALL OPENINGS.

5. WL(d) INDICATES STEEL BEAM LINTEL PER DETAILS ON 5/S2.01. SEE ARCHITECTURAL DRAWINGS FOR LOCATION, WIDTH, AND ELEVATION OF ALL OPENINGS.

6. AL(d) INDICATES STEEL ANGLE LINTEL PER DETAIL 2/S2.02. USE STANDARD ANGLE LINTELS FOR ALL CONCEALED MECHANICAL OPENINGS IN MASONRY WALLS UNLESS NOTED OTHERWISE. COORDINATE LOCATION, WIDTH, AND ELEVATION OF ALL OPENINGS WITH MECHANICAL CONTRACTOR.

7. VL(d) INDICATES VENEER ANGLE LINTEL PER DETAIL 1/S2.02. USE STANDARD VENEER LINTELS FOR ALL OPENINGS IN BRICK OR MASONRY VENEERS UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR LOCATION, WIDTH, AND ELEVATION OF ALL OPENINGS.

8. INDICATES OPENING HEADER. SEE ARCHITECTURAL DRAWINGS FOR LOCATION, EXTENT, AND ELEVATION OF ALL OPENINGS. SEE HEADER SCHEDULE FOR SIZES AND SUPPORT REQUIREMENTS. HEADERS FOR MECHANICAL DUCTWORK ARE PRECEDED WITH AN ASTERISK ("*").

9. [ ] INDICATES LINTEL REQUIRED OVER MECHANICAL DUCTWORK OPENING. COORDINATE SIZE AND LOCATION WITH MECHANICAL CONTRACTOR.

10. # INDICATES STUD COLUMN LOCATION. PROVIDE A MINIMUM OF TWO FULL-HEIGHT STUDS UNLESS NOTED OR SCHEDULED OTHERWISE.

11. (WB) INDICATES MASONRY WALL BRACE PER SECTIONS ON SHEET S2.01. WALL BRACES ARE TO BE LOCATED AS SHOWN AT A SPACING NOT TO EXCEED 36x THE NOMINAL WALL WIDTH FOR ALL INTERIOR MASONRY PARTITIONS WHERE SAME-HEIGHT CROSSWALLS DO NOT PROVIDE LATERAL SUPPORT AT A CLOSER SPACING. WALL BRACES MUST ALSO BE INSTALLED AT THE FREE ENDS OF WALLS WHERE CROSSWALLS ARE NOT PRESENT AT ONE-THIRD THE ABOVE SPACING.

12. PROVIDE VERTICAL MASONRY WALL REINFORCING AS INDICATED ON PLAN. ALL REINFORCING IS TO RUN FULL HEIGHT OF WALL UNLESS NOTED OTHERWISE. WHERE SPACING OF VERTICAL REINFORCING IS INTERRUPTED BY OPENING IN WALL (DOOR, WINDOW, LOUVER, ETC.) PROVIDE ONE FULL-HEIGHT REINFORCING BAR AT EACH JAMB FOR EACH 6'-0" OF OPENING WIDTH. SEE SCHEDULE ON SHEET S0.01 FOR LENGTH OF LAP SPLICES.

13. LINTELS ARE NOT REQUIRED FOR OPENINGS IN CMU WALLS LESS THAN 16" WIDE AND IN BRICK VENEERS LESS THAN 8" WIDE. MASONRY CONTRACTOR IS TO COORDINATE ALL OPENING REQUIREMENTS WITH APPROPRIATE TRADE CONTRACTOR.

14. WALL STUDS ARE TO EXTEND CONTINUOUS FOR FULL HEIGHT OF WALL UNLESS NOTED OTHERWISE. WHERE STUDS ARE INTERRUPTED BY OPENING IN WALL (WIDOW, LOUVER, ETC.) PROVIDE ONE FULL-HEIGHT KING STUD AT EACH JAMB FOR EACH 2'-0" OF OPENING WIDTH.

15. PROVIDE STUD BRIDGING/BLOCKING AT 4'-0" O.C. FOR ALL METAL STUD WALLS WHERE SHEATHING PANELS NEED NOT BE BLOCKED, PROPRIETARY BRIDGING SYSTEMS MAY BE USED IF APPROVED BY THE ARCHITECT PRIOR TO CONSTRUCTION.

16. ALL WALL DIMENSIONS SHOWN ARE TO FACE OF STUD.

17. SEE ELEVATION 1/S2.01 FOR TYPICAL REINFORCED MASONRY WALL CONSTRUCTION. PROVIDE CORNER BARS AT ALL MASONRY BOND BEAM INTERSECTIONS PER SECTION 2/S2.01. POSITION SINGLE-LAYER AND DOUBLE-LAYER VERTICAL REINFORCING BARS PER SECTION 3/S2.01. INSTALL VENEER LEDGE ANGLES PER SECTION 1/S2.01. PROVIDE CONTROL JOINTS IN ALL MASONRY WALLS AT A SPACING NOT TO EXCEED THREE TIMES THE WALL HEIGHT OR 24 FEET ON CENTER, WHICHEVER IS SMALLER. IN ADDITION, PROVIDE CONTROL JOINTS AT THE ENDS OF LINTELS, CHANGES IN WALL HEIGHT, CHANGES IN WALL THICKNESS, WITHIN 2 FEET OF WALL CORNERS AND INTERSECTIONS, TRANSITIONS FROM INTERIOR WALL TO EXTERIOR WALL, AND TRANSITIONS FROM WALL BEARING ON FOUNDATION TO WALL BEARING ON FLOOR SLAB.

MASONRY WALL SCHEDULE

MARK	WIDTH	REINFORCING	REMARKS
MW1	7 5/8"	#5 @ 32" O.C.	TYP. U.N.O.
MW2	9 5/8"	#6 @ 32" O.C.	-
MW3	7 5/8"	#5 @ 16" O.C.	-
MW4	7 5/8"	#4 @ 8" O.C.	-

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STATE OF OHIO
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REGISTERED PROFESSIONAL ENGINEER

Jeserinac Geers
Structural Engineering

Beavercreek Township

Fire Station No. 65

1777 Trebein Road, Beavercreek Township, Ohio 45385

ISSUE:

NO.	DATE	DESCRIPTION
	04/03/2020	FOR CONSTRUCTION

DATE	04/03/2020
JOB NO.	3541.00
DRAWN	MJI
CHECKED	SRM
CAD	CAD

TITLE
FRAMING PLANS

SHEET NO.
S1.12

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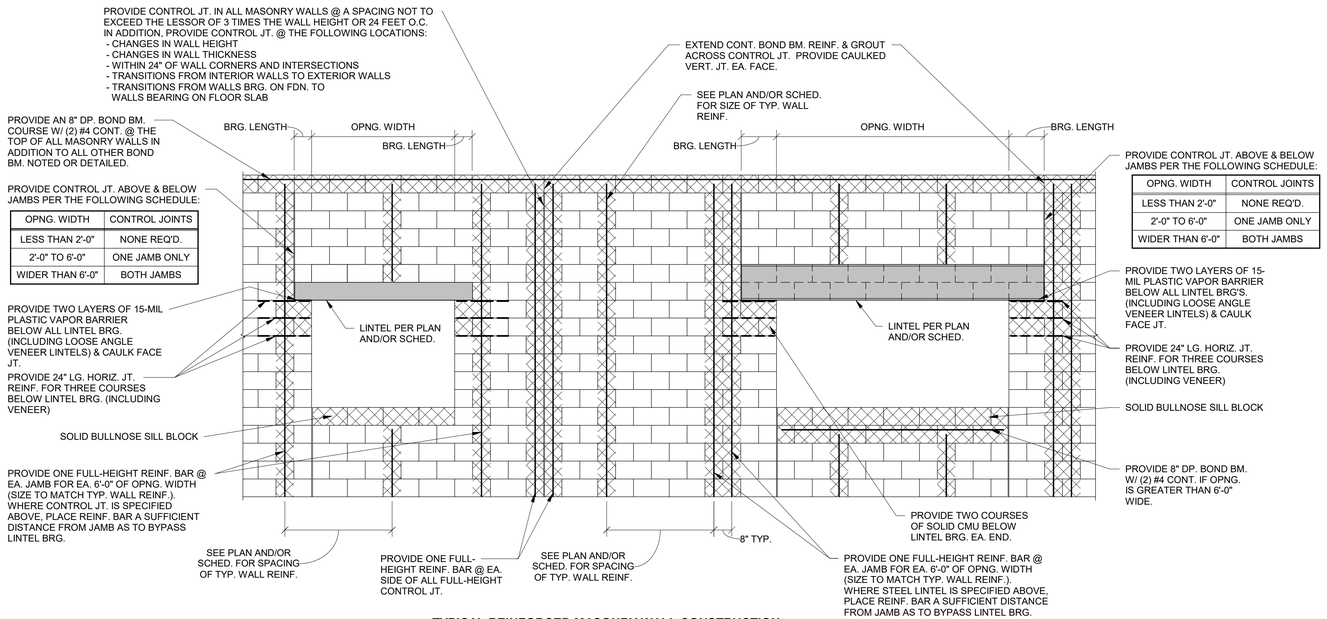
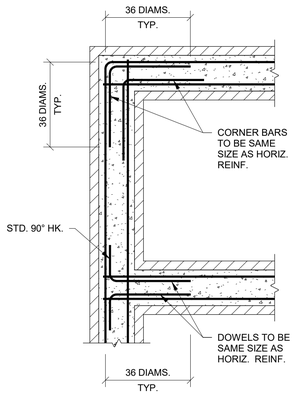


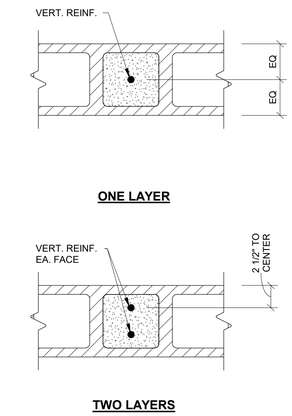
TYPICAL REINFORCED MASONRY WALL CONSTRUCTION

ELEVATION 1 — 3/8" = 1'-0"



TYPICAL CORNER BARS FOR MASONRY BOND BEAMS

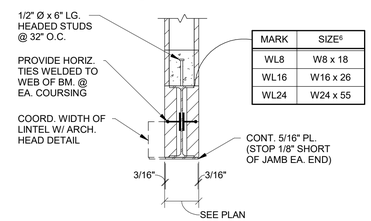
SECTION 2 — 3/4" = 1'-0"



TYPICAL PLACEMENT OF VERTICAL CMU WALL REINFORCING

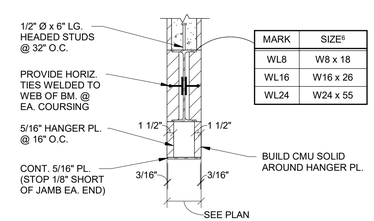
SECTION 3 — 1 1/2" = 1'-0"

STEEL BEAM LINTELS



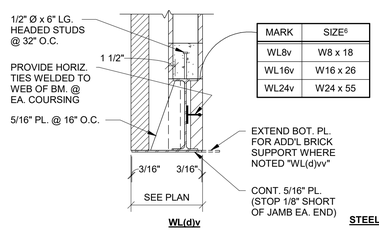
MARK	SIZE[6]
WL8	W8 x 18
WL16	W16 x 26
WL24	W24 x 55

WL(d)



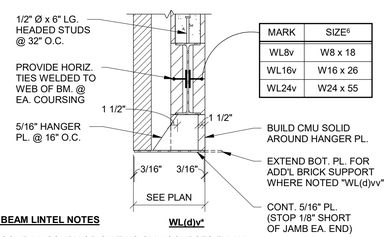
MARK	SIZE[6]
WL8	W8 x 18
WL16	W16 x 26
WL24	W24 x 55

WL(d)*



MARK	SIZE[6]
WL8v	W8 x 18
WL16v	W16 x 26
WL24v	W24 x 55

WL(d)v



MARK	SIZE[6]
WL8v	W8 x 18
WL16v	W16 x 26
WL24v	W24 x 55

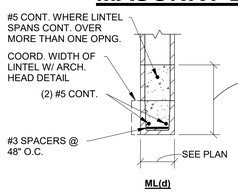
WL(d)v*

STEEL BEAM LINTEL NOTES

1. LINTELS SHALL BEAR ON SOLID MASONRY OR ON TWO CMU COURSES FULLY GROUTED.
2. FURNISH AND INSTALL ALL LOOSE LINTELS REQUIRED FOR ALL OPENINGS IN MASONRY, INCLUDING MECHANICAL AND ELECTRICAL WORK, WHETHER SPECIFICALLY NOTED ON DRAWINGS OR NOT.
3. ALL LINTELS AT EXTERIOR LOCATIONS OR OTHERWISE SUBJECT TO WEATHER OR CORROSIVE ATMOSPHERE SHALL BE GALVANIZED.
4. PROVIDE 8" MINIMUM BEARING EACH END FOR 8" AND 16" DEEP SPAN LINTELS. USE 12" MINIMUM BEARING EACH END FOR 24" (AND DEEPER) SPAN LINTELS.
5. PROVIDE TWO LAYERS OF 15-MIL PLASTIC VAPOR BARRIER BELOW ALL LINTEL BEARINGS AND CAULK FACE JOINT.
6. WHERE A LINTEL'S BEAM SIZE VARIES FROM WHAT IS SCHEDULED, REQ.D. BEAM SIZE IS NOTED WITHIN LINTEL MARK'S NOMENCLATURE, FOR EXAMPLE, WL16x36v INDICATES THAT A WL16v LINTEL W/ A W16x36 BEAM IS REQ'D.
7. PROVIDE 1/4" PLATE AT LINTELS ABOVE OVERHEAD DOORS FOR DOOR HARDWARE ATTACHMENT. REFERENCE DETAILS F4 & F6/A5.03.

SECTION 5 — 3/4" = 1'-0"

MASONRY LINTELS



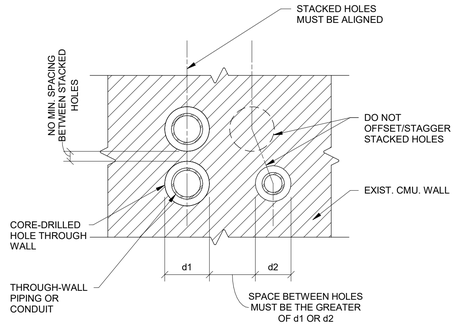
MARK	DEPTH (d)	MAX. SPAN (UNO)
ML8	7 5/8"	6'-0"
ML16	1'-3 5/8"	8'-4"
ML24	1'-11 5/8"	10'-8"

ML(d)

MASONRY LINTEL NOTES

1. FILL IS 2500 PSI (MINIMUM) GROUT. USE FINE GROUT FOR WALLS 6 INCHES AND LESS.
2. FOR TYPE OF CMU AND TYPE OF BOND, SEE SPECIFICATION SECTION 042000.
3. LINTELS SHALL BEAR ON SOLID CMU OR ON 2 FILLED COURSES.
4. MAXIMUM SPANS DO NOT APPLY TO LOAD BEARING WALLS.
5. BOND PATTERN OF LINTEL TO MATCH THAT OF SURROUNDING WALL.
6. BOTTOM OF LINTEL SHALL BE SMOOTH MASONRY WITH NO CORES EXPOSED.
7. 14" LINTELS MAY BE MADE-UP OF TWO PIECES IF 14" BOND BEAM UNITS ARE NOT AVAILABLE.
8. PROVIDE 8" MINIMUM BEARING EACH END FOR 8" AND 16" DEEP LINTELS. USE 16" MINIMUM BEARING FOR 24" (AND DEEPER) LINTELS.
9. PROVIDE SCORED BLOCK AS REQUIRED TO MATCH ADJACENT WALL FINISH. REFER TO INTERIOR FINISH SCHEDULE FOR LOCATION OF ALL SCORED BLOCK.
10. PROVIDE TWO LAYERS OF 15-MIL PLASTIC VAPOR BARRIER BELOW ALL LINTEL BEARINGS AND CAULK FACE JOINT.

SECTION 4 — 3/4" = 1'-0"



TYPICAL MASONRY WALL PENETRATIONS

SECTION 6 — 1 1/2" = 1'-0"

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DATE	04/03/2020
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TITLE
TYPICAL DETAILS

SHEET NO.
S2.01

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