NEW BUILDING FOR:

MOVEMENT CHURCH

2881 Walker Road
Hilliard, Ohio 43026

FRAZIER
GENERAL CONTRACTORS
METAL BUILDING SPECIALIST
5040 Nike Dr. Hilliard, Ohio 43026
614-206-3071

JH Architects, Inc.
architects
5120 B Nike Drive
Hilliard, Ohio 43026
614-527-7590 Fax 614-527-7592

GENERAL CONSTRUCTION NOTES

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE OHIO REVISED CODE AND ALL LOCAL CODES, FEDERAL CODES AND LOCAL ZONING.

ALL WORK IS TO BE PERFORMED BY CRAFTSMAN THOROUGHLY EXPERIENCED AND LICENSED IN THEIR RESPECTIVE TRADES.

THE ARCHITECT IS NOT RESPONSIBLE FOR CONSTRUCTION BUILD-OUTS THAT ARE INSTALLED PRIOR TO PERMIT BEING ISSUED FOR THE PROJECT.

ALL ITEMS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURERS RECOMMENDATIONS, THE STANDARDS OF THE RESPECTIVE INDUSTRIAL / TRADE ASSOCIATION AND GOOD GENERAL ENGINEERING PRACTICES.

ALL CONTRACTORS ARE TO VISIT, INSPECT AND VERIFY EXISTING BUILDING SITE CONDITIONS TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS AND DETERMINE HOW THEY AFFECT EXECUTION OF THEIR WORK.

EACH CONTRACTOR IS RESPONSIBLE FOR DAILY CLEAN-UP OF ALL TRASH AND DEBRIS AND DISPOSING IN THE PROPER CONTAINERS ON SITE.

ANY INCONSISTENCIES IN PLANS / SPECIFICATIONS OR EXISTING CONDITIONS, OR CHANGES IN PLANS AND DETAILS THAT AFFECT WORK TO BE PERFORMED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING WORK.

ALL INTERIOR MATERIAL, FINISHES, COLORS, CASEWORK, MILLWORK AND MISCELLANEOUS DETAILING SHALL BE REVIEWED AND APPROVED BY OWNER. OWNER SHALL MAKE FINAL MATERIAL AND PRODUCT SELECTIONS, CONTRACTOR TO MAKE AND DIVULGE ALLOWANCES AND / OR UNIT COST FOR THE SAME.

THE GENERAL CONTRACTOR SHALL OBTAIN ALL NECESSARY INSPECTIONS TO OBTAIN A CERTIFICATE OF OCCUPANCY.

ALL FLOOR PLAN DIMENSIONS ARE DIMENSIONED FROM STUD TO STUD UNLESS SPECIFIED OTHERWISE. (DETAILS ARE DIMENSIONED FROM FINISH TO FINISH).

SHEET INDEX

A0	TITLE SHEET
SE	SITE IMPROVEMENTS
A1	FLOOR PLAN
A2	REFLECTED CEILING PLAN
A3	ROOF PLAN
A4	EXTERIOR ELEVATIONS
A5	INTERIOR ELEVATIONS
A6	SECTIONS
A7	SECTIONS
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E2.0	POWER PLAN
E3.0	ELECTRIC DETAILS
E3.1	PANEL SCHEDULES

BUILDING DATA

1. CONSTRUCTION TYPE: 2B
2. USE GROUP: 'A3' ASSEMBLY (RELIGIOUS)
   2-HR FIRE SEPARATION PROVIDED
3. AREA: 15,685 SF TOTAL
   7,310 SF + 8,375 SF (SEPARATED BY 3-HR FIRE WALL)
4. ALLOWABLE AREA: 9,500 SF (A3)
5. OCCUPANCY LOAD: 394 OCCUPANTS (SEE FLOOR PLAN)
6. BUILDING IS NON-SPRINKLERED.
7. GOVERNING CODES: 2017 OHIO BUILDING CODE
   2017 NATIONAL ELECTRIC CODE
   2017 OHIO PLUMBING CODE
   2017 OHIO MECHANICAL CODE
   2017 OHIO FIRE CODE
8. DESIGN LOADS: SEE STRUCTURAL DRAWINGS
9. RESTROOMS FIXTURES:

REQUIRED:	MEN:	WC = 197/150 = 2	LAV = 197/200 = 1
	WOMEN:	WC = 197/75 = 3	LAV = 197/200 = 1
PROVIDED:	MEN:	WC = 4 UR = 2	LAV = 5
	WOMEN:	WC = 6	LAV = 5

SITE LOCATION

ISSUE DATES

PRELIMINARY– 12-28-21
BIDDING– ____
PERMIT– 09-21-22
CONSTRUCTION– ____

REVISIONS
1 ____
2 ____
3 ____
4 ____
5 ____

SEAL

STATE OF OHIO
ROBERT W. JOHNSON
7483
REGISTERED ARCHITECT

ROBERT W. JOHNSON 09-21-22
NAME: DATE:
EXP. DATE: 12-31-23

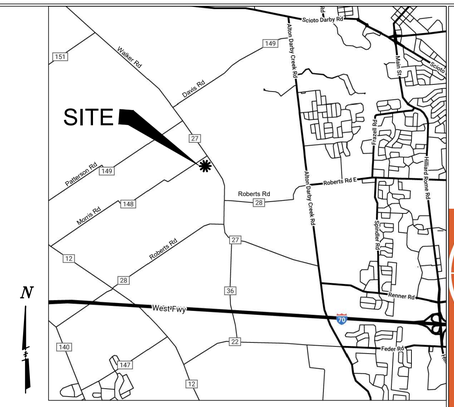
2881 WALKER ROAD
HILLIARD, OH 43026

MOVEMENT CHURCH

Permit Drawings
Issue Date: 09-21-22
Project No.: 19031

SITE IMPROVEMENTS FOR
MOVEMENT CHURCH

WALKER RD. & MORRIS RD., BROWN TWP., FRANKLIN, CO, OHIO



LOCATION MAP
NO SCALE

elmasian engineering, LLC
PO BOX 626
PATASKALA, OH 43062
PH: 614-349-2002
www.elmasian.net

PROJECT DESCRIPTION

PROPOSED CHURCH BUILDING AND PARKING

OWNER INFORMATION

ADDRESS:

MOVEMENT CHRUCH
4515 COSGRAY RD
HILLIARD, OH 43026

CONTACT:

MARK ARTRIP
LEAD PASTOR
PHONE: (614) 219-9182
EMAIL: MARKARTRIP@MOVEMENTCOLUMBUS.COM

BASIS OF BEARING

ALL BEARINGS ARE BASED UPON THE OHIO STATE PLANE, SOUTH ZONE, ESTABLISHED BY GPR/ODOT-VRS METHODS NAD 88/ 2011 2010.0 EPOCH, AS DETERMINED BY NGS WITH ELEVATIONS DETERMINED BY THE 2012A GEOID, WITH THE CENTER LINE OF MORRIS ROAD BEING N 56° 20'37" E. (FROM RECORD DEED DESCRIPTION)

SOURCE BENCH MARK (VRS)

SOURCE BENCH MARK, ELEVATION OBTAINED USING TRIMBLE RTK GPS EQUIPMENT AND OHIO DEPARTMENT OF TRANSPORTATION CORS/VRS NETWORK, NAVD 1988.

BENCH MARK #1 ~MAG NAIL FOUND AT THE NW CORNER OF THE PROPERTY, ON THE CENTERLINE OF MORRIS ROAD, N:731,699.55 E:1,769,982.36 ELEV=942.42

BENCH MARK #2 ~ "X" CUT ON TOP OF THE SOUTH END OF 12" STORM PIPE, AT THE SW CORNER OF INTERSECTION OF WALKER ROAD AND MORRIS ROAD, N:732,112.41 E: 1,770,675.71 ELEV=942.36

INDEX OF SHEETS

1.....COVER SHEET

2.....NOTES

3.....SITE DIMENSION PLAN

4.....GRADING PLAN

5.....UTILITY PLAN

6.....STORM PROFILES

7.....DITCH PROFILES

8.....EROSION AND SEDIMENT CONTROL PLAN

9.....EROSION AND SEDIMENT CONTROL DETAILS

STANDARD DRAWINGS

THE STANDARD DRAWINGS LISTED ON THIS PLAN SHALL BE CONSIDERED A PART THEREOF.

ODOT	COLUMBUS
CB-2-3	AA-S117
CB-2-4	AA-S119
HW-2-1	AA-S149
	AA-S151

STATE OF OHIO
NICHOLAS ELMASIAN
E-81167
REGISTERED PROFESSIONAL ENGINEER

THIS IS TO CERTIFY THAT GOOD ENGINEERING PRACTICES HAVE BEEN UTILIZED IN THE DESIGN OF THIS PROJECT AND THAT ALL OF THE MINIMUM STANDARDS AS DELINEATED IN THE FRANKLIN COUNTY CODIFIED ORDINANCES HAVE BEEN MET, INCLUDING THOSE STANDARDS GREATER THAN MINIMUM WHERE, IN MY OPINION, THEY ARE NEEDED TO PROTECT THE SAFETY OF THE PUBLIC. ANY VARIANCES TO THE ABOVE STANDARDS ARE CONSISTENT WITH SOUND ENGINEERING PRACTICE AND ARE NOT DETRIMENTAL TO PUBLIC SAFETY AND CONVENIENCE.

REGISTERED ENGINEER E-81167 — DATE 10/12/22

FRANKLIN COUNTY APPROVALS

SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS. APPROVAL ON THE PART OF THE FRANKLIN COUNTY ENGINEER'S OFFICE IS GIVEN FOR WORK WITHIN THE FRANKLIN COUNTY R/W ONLY.

FRANKLIN COUNTY ENGINEER — DATE

FRANKLIN COUNTY CHIEF DEPUTY ENGINEER — DATE

SIGNATURE BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS. APPROVAL ON THE PART OF THE FRANKLIN COUNTY DRAINAGE ENGINEER'S OFFICE IS GIVEN FOR WORK WITHIN UNINCORPORATED PORTIONS OF FRANKLIN COUNTY ONLY.

FRANKLIN COUNTY DRAINAGE ENGINEER — DATE

OHIO811.org Before You Dig

ISSUE/SUBMITTAL	DATE	REVISIONS	DATE
PRELIMINARY SUBMITTAL		REVISED PER COUNTY COMMENTS	
SUBMIT FOR SIGNATURES			

NO. | REVISION | DATE

COVER SHEET
MOVEMENT CHURCH
WALKER RD. & MORRIS RD. BROWN TWP. FRANKLIN CO. OH.

DATE 10/12/2022
SCALE N/A
SHEET NO. 1 OF 9
FILE NO. SEI054

C:\USERS\NICKELMASIAN\ONEDRIVE - ELMASIAN ENGINEERING, LLC\SEI\SEI05\4.CADD\SEI054_SITE.DWG 10/12/2022

GENERAL NOTES

1. THE REQUIREMENTS OF FRANKLIN COUNTY, TOGETHER WITH THE CURRENT EDITION OF STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING ALL SUPPLEMENTS THERETO IN FORCE ON DATE OF CONTRACT SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS, OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY. IF A SOILS REPORT IS A PART OF THE CONSTRUCTION DOCUMENTS, IT SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES BETWEEN THE SOILS REPORT AND PLANS, ETC.
3. THE INFORMATION SHOWN ON THE PLANS REGARDING EXISTING UTILITIES IS NOT REPRESENTED, WARRANTED OR GUARANTEED TO BE COMPLETE OR ACCURATE. INVESTIGATION, LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, PRIOR TO CONSTRUCTION TO DETERMINE IN THE FIELD THE ACTUAL LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. NO COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY THE CONTRACTORS WORK FORCE.
4. QUANTITIES ARE ONLY ESTIMATES AND SHALL NOT BE USED BY THE CONTRACTOR FOR BID SUBMITTALS.
5. THE CONTRACTOR'S BID SHALL BE COMPREHENSIVE AND INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT TO COMPLETE ALL EXCAVATION, FILL AND GRADING IN ACCORDANCE WITH ENGINEERING AND SPECIFICATIONS.
6. ALL ITEMS OF WORK CALLED FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED, SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF SAME SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS RELATED ITEMS.
7. ALL SECTIONS REQUIRING EMBANKMENT AND COMPACTION SHALL BE SCALPED IN ACCORDANCE WITH O.D.O.T. CONSTRUCTION AND MATERIAL SPECIFICATIONS (201.03) CLEARING AND GRUBBING (201.04) SCALPING AND (203.12) EMBANKMENT.
8. THE CONTRACTOR SHALL CONFINE ALL ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT OR THE EXISTING RIGHT-OF-WAYS, CONSTRUCTION AND PERMANENT EASEMENTS AND SHALL NOT TRESPASS UPON OTHER PRIVATE PROPERTY WITHOUT THE WRITTEN CONSENT OF THE OWNER.
9. IN ADDITION TO DIRECT REQUIREMENTS OF THE CONTRACT SPECIFICATIONS, THE CONTRACTOR SHALL OBSERVE AND CONFORM TO THE SPECIFIC REQUIREMENTS OF ALL RIGHTS-OF-WAY INCLUDING EASEMENTS, RIGHTS-OF-ENTRY, OR ACTION FILED IN COURT IN ACCORDANCE WITH THE CODE OF APPLICABLE GOVERNING AGENCY. THE COST OF THE OPERATIONS NECESSARY TO FULFILL SUCH REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR THE PROJECT IMPROVEMENTS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES OF 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.
11. ALL WORK WITHIN THE RIGHTS OF WAY SHALL BE IN ACCORDANCE WITH THE GOVERNING JURISDICTION AND SPECIFICATIONS.
12. FRANKLIN COUNTY PERMIT – THE CONTRACTOR SHALL CONTACT UTILITIES COORDINATOR AT (614) 525-3063 TO SECURE A WRITTEN PERMIT FROM THE FRANKLIN COUNTY ENGINEER'S OFFICE, 970 DUBLIN RD, A MINIMUM OF TWO WORKING DAYS PRIOR TO BEGINNING WORK WITHIN FRANKLIN COUNTY R/W. THE CONTRACTOR MAY BE REQUIRED TO POST A BOND WITH THE FRANKLIN COUNTY ENGINEER PRIOR TO ISSUANCE OF THE PERMIT TO INSURE PROPER RESTORATION OF THE PAVEMENT AND R/W. THE CONTRACTOR SHALL PROVIDE THE FRANKLIN COUNTY ENGINEER'S OFFICE A 24-HOUR TELEPHONE NUMBER TO BE USED IN CASE OF AN EMERGENCY
13. COST FOR REMOVAL AND DISPOSAL OF ANY TREES, BRUSH AND STUMPS SHALL BE INCLUDED IN PRICE BID.
14. THE CONTRACTOR SHALL REFER TO THE UTILITY PLAN & PROFILE DRAWINGS TO DETERMINE AND VERIFY ALL CRITICAL UTILITY CROSSINGS. IN THE EVENT A CONFLICT EXISTS, CONTACT THE DESIGN ENGINEER IMMEDIATELY.
15. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH AND SUBMIT A CONSTRUCTION SCHEDULE TO THE FRANKLIN COUNTY ENGINEER, SECURE ALL NECESSARY LICENSES AND PERMITS, AND PAY ANY INSPECTION FEES.
16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SCHEDULE ALL NEEDED INSPECTIONS WITH THE APPLICABLE AGENCIES.
17. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND EASEMENTS PRIOR TO CONSTRUCTION.
18. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE FOR ADEQUATE DRAINAGE AND PROPER SOIL EROSION CONTROL MEASURES FOR PROTECTION OF ALL ADJACENT ROADS AND LANDS, AS SPECIFIED ON THE PLANS/SWPPP.
19. PRIOR TO PAVING THE CONTRACTOR SHALL VERIFY ALL PROPOSED GRADES AND VERIFY 2% MAXIMUM SLOPE FOR ALL ADA AREAS. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST.
20. IN SLOPE AREAS GREATER THAN 3:1, THE CONTRACTOR SHALL REFER TO THE OWNER'S LANDSCAPING PLAN FOR SPECIAL VEGETATION REQUIREMENTS AND PLANTINGS TO PREVENT SOIL EROSION AND MAINTAIN INTEGRITY OF THE SLOPE.
21. THE CONTRACTOR SHALL USE CONCRETE WITH A MINIMUM 28 DAY STRENGTH OF 3000 P.S.I. WITH AIR ENTRAINMENT, UNLESS SPECIFIED OTHERWISE.
22. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE SUPERVISING CONSTRUCTION ENGINEER IF A PAVEMENT OR FOUNDATION STAKE IS DISTURBED.
23. THE CONTRACTOR SHALL CONSTRUCT PAVEMENT IN ACCORDANCE WITH TYPICAL PAVEMENT SECTION DETAILS OR AS SPECIFIED IN A GEOTECHNICAL ANALYSIS. THE FINISH PAVEMENT GRADES SHALL CONFORM TO THOSE SPECIFIED ON THE SITE GRADING PLAN.
24. THE SOILS ENGINEER SHALL APPROVE ALL SUBBASE MATERIAL AND COMPACTION IN FILL AREAS.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EMPLOYING A REGISTERED SOIL ENGINEER TO PROVIDE TESTING AS REQUIRED.
26. COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 IS REQUIRED OF ALL CONTRACTORS ON THIS PROJECT.
27. TRENCHES UNDER EXISTING OR PROPOSED PAVED AREAS OR DRIVES SHALL BE BACKFILLED WITH CLASS "B" BEDDING, FROM THE TOP OF THE BEDDING MATERIAL TO THE PAVEMENT SUBGRADE OR TO A PLANE 6 INCHES BELOW THE TOP OF THE GROUND, BETWEEN THE LIMITS OF FIVE (5) FEET BEYOND THE EDGE OF PAVEMENT, PAVED SHOULDER, OR THE BACK OF CURB. UNLESS OTHERWISE SHOWN, TRENCHES NOT UNDER EXISTING OR PROPOSED PAVED AREAS BUT WITHIN EXISTING OR PROPOSED RIGHT-OF-WAY OR LAWN AREAS SHALL BE CLASS "C" BEDDING, MEETING REQUIREMENTS OF O.D.O.T. ITEM 203. ANY SETTLEMENT WHICH OCCURS DURING THE GUARANTEE PERIOD SHALL BE REPAIRED AT NO COST TO THE LOCAL MUNICIPALITY OR THE OWNER.
28. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", COPIES OF WHICH ARE AVAILABLE FROM THE DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC, 1980 WEST BROAD STREET, COLUMBUS, OHIO 43215. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS REQUIRED BY THE LOCAL JURISDICTION.
29. TYPE 'A' STEADY BURN LIGHTS SHALL BE USED ON ALL BARRICADES, DRUMS AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.
30. ADEQUATE LIGHTS, SIGNS AND BARRICADES SHALL BE USED AS REQUIRED IN ITEM 614 O.D.T.S. TO SAFEGUARD THE TRAVELING THE PUBLIC AT ALL TIMES.
31. ALL PERTINENT STANDARD CONSTRUCTION DRAWINGS ARE AVAILABLE UPON REQUEST AT THE OFFICES OF THE COUNTY ENGINEER.
32. NO MATERIALS OR EQUIPMENT SHALL BE STORED WITHIN PUBLIC RIGHT-OF-WAY OR WITHIN FIFTY (50) FEET OF ANY INTERSECTING STREET, DRIVEWAY, DITCH, STREAM OR EXISTING WETLAND. COMPLIANCE WITH THESE REQUIREMENTS ALONG WITH ADDITIONAL PROVISIONS OF THE CONTRACTOR SPECIFICATIONS SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS LEGAL RESPONSIBILITIES OR LIABILITIES FOR THE SAFETY OF THE PUBLIC. THE CONTRACTOR SHALL INDICATED HIS INTENT WITH REGARD TO STORAGE OF MATERIAL AT THE PRECONSTRUCTION MEETING.
33. THE CONTRACTOR SHALL PERFORM FIELD RECONNAISSANCE TO BECOME ACQUAINTED WITH THE EXISTING SITE CONDITIONS AND THE POTENTIAL EFFECTS UPON THE WORK SCOPE.
34. A PRE-CONSTRUCTION CONFERENCE INVOLVING A REPRESENTATIVE OF FRANKLIN COUNTY, THE CONTRACTOR AND ALL AVAILABLE SUB-CONTRACTORS WILL BE HELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ARRANGE THE CONFERENCE THRU THE FRANKLIN COUNTY ENGINEER. THE CONTRACTOR SHALL NOTIFY FRANKLIN COUNTY ENGINEER'S OFFICE 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
35. NO DRAINAGEWAYS OR SWALES SHALL BE BLOCKED OVERNIGHT OR DURING NON-WORK DAYS WHEN WORKERS ARE NOT ON SITE.

UTILITY NOTES

1. OHIO UTILITIES PROTECTION SERVICE WAS CONTACTED MARCH 4TH, 2020 FOR MARKING OF UTILITIES (REFERENCE # B0062001851-00B). NOT WITHSTANDING THE FOLLOWING NOTES, THE NATURE, SIZE AND LOCATION OF UTILITIES ARE PER PLANS AND LOCATIONS PROVIDED BY THE RESPECTIVE UTILITIES COMPANIES TOGETHER WITH FIELD OBSERVATION. THE FOLLOWING LIST CONSTITUTES SOME, IF NOT ALL, OF THE UTILITY COMPANIES WHICH MAY PROVIDE SERVICE IN THE AREA OF, AND ADJACENT TO, THE SUBJECT PROJECT, BASED UPON THE INFORMATION AVAILABLE THROUGH SUCH PLANS AND LOCATIONS, AND ANY INCIDENTAL VISUAL INSPECTION. ALL UTILITY COMPANIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION AND VERIFICATION OF SIZE AND NATURE OF SERVICES.

ELECTRIC:	GAS:	TELEPHONE:
AEP COLUMBUS SOUTHERN	COLUMBIA GAS OF OHIO	AT&T
1 RIVERSIDE DRIVE	200 CIVIC CENTER DRIVE	150 EAST GAY STREET
COLUMBUS, OHIO 43215	COLUMBUS, OHIO 43215	COLUMBUS, OHIO 43215
PH: (614) 716-2964	PH: (800) 344-4077	PH: (800) 762-0592

COMMUNICATIONS:	CABLE:
INSIGHT COMMUNICATIONS	SPECTRUM CABLE
3770 LIVINGSTON AVENUE	1266 DUBLIN ROAD
COLUMBUS, OHIO 43215	COLUMBUS, OHIO 43215
PH: (614) 236-1200	PH: (614) 481-5320

2. THE LOCATIONS OF THE UTILITIES SHOWN ON THESE PLANS HAVE BEEN OBTAINED THROUGH INFORMATION PROVIDED BY THE VARIOUS UTILITY COMPANIES AND BY FIELD SURVEY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND EXPOSING UTILITIES. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE AT 1-800-362-2764 AND EACH UTILITY COMPANY AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING ANY CONSTRUCTION WHICH MAY INVOLVE A UTILITY COMPANY'S UNDERGROUND FACILITIES.
3. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE LOCATION OF THE EXISTING UTILITIES SHOWN ON THESE PLANS. IN THE EVENT THE CONTRACTOR'S SITE INVESTIGATION INDICATES A POSSIBLE CONFLICT IN ELEVATIONS OR LOCATIONS, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY FOR PLAN REVISION EVALUATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES INCLUDING STORM SEWERS AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT.
5. PLACEMENT OF UTILITY CONDUIT OR SLEEVES FOR GAS, ELECTRIC, SITE ELECTRIC AND TELECOMMUNICATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE PLAN DETAILS SHOWN HEREIN AND IN CONFORMANCE TO THE REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND LABOR TO COMPLETE THE INSTALLATION AND BACKFILL OF THE GAS, ELECTRIC, AND TELECOMMUNICATION FACILITIES.
7. THE STORM SEWERS SHOWN OUTSIDE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED AS A PRIVATE STORM SEWER SYSTEM. THEREFORE, FRANKLIN COUNTY WILL NOT ASSUME MAINTENANCE THEREOF AFTER COMPLETION. THE OWNER/DEVELOPER SHALL, PRIOR TO STARTING ANY CONSTRUCTION OPERATION, DEPOSIT WITH FRANKLIN COUNTY, THE TOTAL ESTIMATED COST FOR INSPECTION OF THE DRAINAGE SYSTEM.
8. THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATION AT THEIR OWN EXPENSE AND AS APPROVED BY THE OWNER'S REPRESENTATIVE.
9. ALL FIELD TILE BROKEN DURING EXCAVATION SHALL BE REPLACED TO ORIGINAL CONDITION OR CONNECTED TO THE CURB SUB-DRAIN OR TO THE STORM SEWER SYSTEM AS DIRECTED BY THE ENGINEER.
10. ALL EXISTING INVERTS ALONG WITH THE PROPOSED TOP OF CASTING ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE SEWER SYSTEMS.
11. THE COST OF ANY ROCK EXCAVATION AND/OR DEWATERING OPERATIONS REQUIRED FOR THE CONSTRUCTION OF SITE UTILITIES SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS.
12. ANY PLACEMENT OF SANITARY AND STORM SEWERS BENEATH EXISTING OR PROPOSED PAVEMENT SHALL BE BACKFILLED IN ACCORDANCE WITH ITEM 912, COLUMBUS CONSTRUCTION AND MATERIALS SPECIFICATIONS OR CONCRETE ENCASED WHERE SHOWN ON THE PLANS.
13. ALL PLASTIC SANITARY AND STORM SEWER LINES SHALL BE DEFLECTION TESTED AFTER INSTALLATION, IN CONFORMANCE WITH THE REQUIREMENTS OF ITEM 901 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIALS SPECIFICATIONS, CURRENT EDITION.
14. BEFORE STARTING GRADING OPERATIONS, SEE DETAILS AND NOTES ON STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
15. PRIOR TO SITE CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL INSTALL ALL SWPP MEASURES TO PROTECT EXISTING DRAINAGE FACILITIES. CONTRACTOR SHALL PREVENT SILT FROM LEAVING THE SITE AT ALL TIMES.
16. PROPOSED UTILITIES SHOWN ON THESE PLANS SHALL HAVE THEIR FINAL LOCATIONS DEPICTED ON AN AS-BUILT UTILITY DRAWING.
17. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATIONS AT THE DISCRETION OF FRANKLIN COUNTY AND/OR THE E.P.A..
18. FRANKLIN COUNTY PERMIT - THE CONTRACTOR SHALL CONTACT UTILITIES COORDINATOR AT (614) 525-3063 TO SECURE A WRITTEN PERMIT FROM THE FRANKLIN COUNTY ENGINEER'S OFFICE, 970 DUBLIN RD, A MINIMUM OF FIVE WORKING DAYS PRIOR TO BEGINNING WORK WITHIN FRANKLIN COUNTY R/W. THE CONTRACTOR MAY BE REQUIRED TO POST A BOND WITH THE FRANKLIN COUNTY ENGINEER PRIOR TO ISSUANCE OF THE PERMIT TO INSURE PROPER RESTORATION OF THE PAVEMENT AND R/W. THE CONTRACTOR SHALL PROVIDE THE FRANKLIN COUNTY ENGINEER'S OFFICE A 24-HOUR TELEPHONE NUMBER TO BE USED IN CASE OF AN EMERGENCY.
19. UNTREATED SEPTIC CONNECTIONS - THIS PLAN MAKES NO PROVISION FOR CONNECTING, NOR SHALL THE ENGINEER OR CONTRACTOR CONNECT, ANY UNTREATED SEPTIC DRAINAGE INTO THE HIGHWAY DRAINAGE SYSTEM. ANY PIPE POSSIBLY CARRYING UNTREATED SEPTIC FLOW SHALL BE LEFT EXPOSED. CALL FRANKLIN COUNTY PUBLIC HEALTH AT (614) 525-3909 AND THE FRANKLIN COUNTY DRAINAGE ENGINEER'S OFFICE AT (614) 525-7318 OR (614) 525-2787 FOR DIRECTION ON WHETHER OR NOT TO TIE THE PIPE INTO THE HIGHWAY DRAINAGE SYSTEM OR PLUG THE PIPE AT R/W LINE W/ CLASS C CONCRETE. PAYMENT FOR PLUGGING SHALL BE INCLUDED IN CONTRACT PRICE FOR THE PERTINENT 202 OR 203 ITEM.
20. EXISTING/UNIDENTIFIED STORM SEWERS - IF ANY EXISTING STORM SEWERS OR FIELD TILES ARE ENCOUNTERED DURING CONSTRUCTION, LEAVE EXPOSED AND CONTACT THE FRANKLIN COUNTY DRAINAGE ENGINEER'S OFFICE AT (614) 525-7318 OR (614) 525-2787 TO HAVE THE EXISTING TILE SIZE, COMPOSITION, HORIZONTAL LOCATION, AND FLOWLINE SURVEYED.
21. EROSION CONTROL - THE CONTRACTOR SHALL FILE A NOTICE OF INTENT AS PER NPDES REQUIREMENTS INCLUDING ANY OFFSITE DUMPING OR BORROW AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THEIR SUBCONTRACTORS OF THE OEPA REQUIREMENTS. FURNISH COPIES OF THE DOCUMENTS TO FCEO.

SURVEY NOTES

1. THE BOUNDARY INFORMATION SHOWN HEREON IS FROM A SURVEY PREPARED BY STEVEN LAMPHEAR, P.S. #7876 DATED 06-01-2017.
2. THE TOPOGRAPHICAL INFORMATION SHOW HEREON IS FROM A SURVEY PREPARED BY SITE ENGINEERING, LLC #4096 DATED 03-2020.
3. UTILITY LOCATIONS ON THIS SURVEY ARE REPORTED FROM FIELD LOCATIONS OR INFORMATION PROVIDED BY UTILITY REPRESENTATIVES. THIS DOES NOT MEAN THERE COULD NOT BE OTHER UTILITIES IN THE AREA.
4. ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP, COMMUNITY-PANEL NUMBER 390167-39049C0140K DATED JUNE 17, 2008 THIS PROPERTY IS IN AN UNSHADED ZONE "X"; AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
5. ADD 900 TO ALL SPOT ELEVATIONS SHOWN TO OBTAIN VRS DATUM.

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NO.	DATE	REVISION	BY

NOTES

MOVEMENT CHURCH

WALKER RD. & MORRIS RD. BROWN TWP. FRANKLIN CO. OH.

DATE 10/12/2022
SCALE N/A
SHEET NO. 2 OF 9
FILE NO. SEI054

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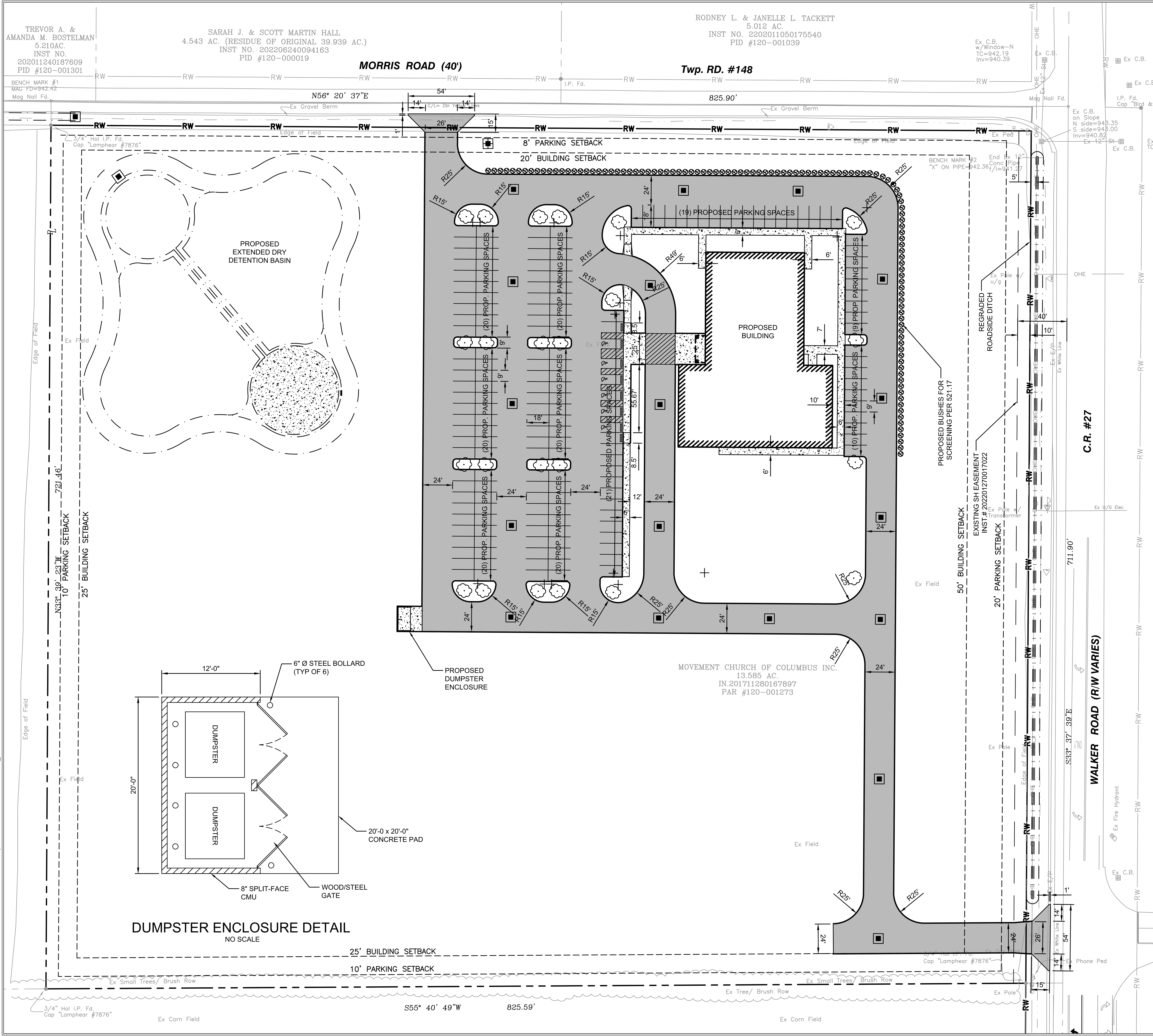
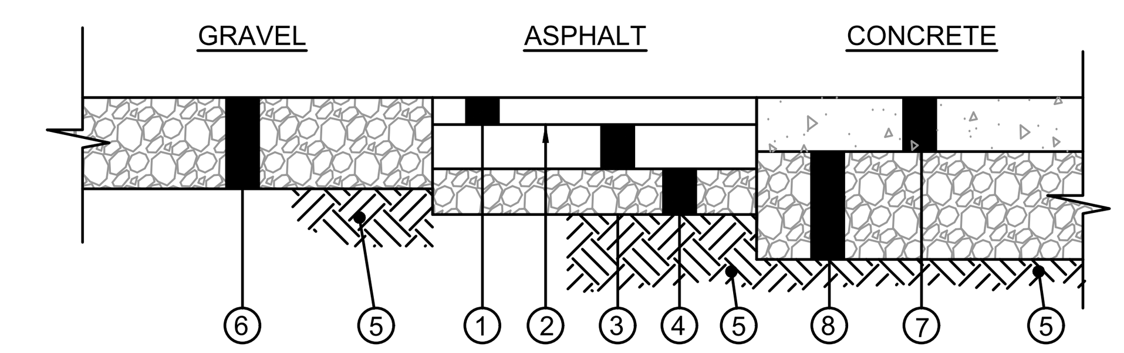


DUMPSTER ENCLOSURE DETAIL

NO SCALE

SITE PLAN NOTES

1. ALL DIMENSIONS AND RADII ARE GIVEN TO FACE OF CURB, UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF ANY DISCREPANCIES EXIST, PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN CHANGES, NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS SHOWN INCORRECTLY ON THESE PLANS, IF SUCH NOTIFICATION IS NOT GIVEN.
3. ALL EXTERIOR SITE SPECIFIC PORTLAND CONCRETE CEMENT SHALL MEET THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR CURING AND INSTALLATION. THE MINIMUM PCC ALLOWED IS 3000 P.S.I. AT 28 DAY, WITH AIR ENTRAINMENT MEETING THE DOT REQUIREMENTS.
4. ALL EXTERIOR CURB SHALL HAVE EXPANSION JOINTS AT 100' OC. AND CONTROL JOINTS AT 10' OC. ALL EXTERIOR WALKS SHALL HAVE EXPANSION JOINTS AT 20' OC AND CONTROL JOINTS AT 5' OC. UNLESS SPECIFIED OTHERWISE.
5. CONTRACTOR SHALL ADJUST AND/OR SAWCUT EXISTING PAVEMENT AS REQUIRED TO PROVIDE A CLEAN, SMOOTH ABUTMENT AND GRADE. CONTRACTOR SHALL HOT TAR SEAL ALL PAVEMENT CUTS TO ASSURE A SMOOTH FIT AND CONTINOUS GRADE.
6. STRIPING SHALL CONFORM TO CURRENT ODOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. CROSSWALK STRIPING (SEE FIG. M-18 TYPE C), LONGITUDINAL LINES SHALL BE 24 IN. WIDE SPACED 24 IN. APART.
7. REFER TO PHOTOMETRIC LIGHTING PLAN FOR LIGHT DETAILS AND SPECIFICATIONS.
8. REFER TO ARCHITECTURAL DRAWINGS FOR PROPOSED BUILDING DETAILS AND SPECIFICATIONS.
9. REFER TO LANDSCAPE DRAWINGS FOR PROPOSED TREE AND SHRUB DETAILS AND SPECIFICATIONS.



TYPICAL PAVEMENT SECTIONS

NO SCALE

1. ITEM 441 - 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448 DRIVEWAYS) PG64-22
   ITEM 441 - 1.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (448 DRIVEWAYS) PG64-22
2. ITEM 407 - NON-TRACKING TACK COAT
3. ITEM 301 - 4" ASPHALT CONCRETE BASE
4. ITEM 304 - 4" AGGREGATE BASE
5. ITEM 204 - SUBGRADE COMPACTION
6. ITEM 304 - 9" AGGREGATE BASE
7. ITEM 452 - 8" CLASS MS CONCRETE
8. ITEM 304 - 6" AGGREGATE BASE

NOTE:
THESE PAVEMENT SECTIONS WERE NOT DERIVED FROM ANY GEOTECHNICAL REPORT OR FROM A STRUCTURAL ENGINEER. THE SECTIONS ARE SUBJECT TO APPROVAL BY THE OWNER.

SITE DATA:

TOTAL ACRES:	13.585 AC.
PR. IMPERVIOUS:	2.91 AC.
STRUCTURE COVERAGE:	1.72 AC. (12.7%)
PR. PARKING SPACES:	179
PR. SHADE TREES:	23
PR. SEATS IN BUILDING:	255

LEGEND

San.	SANITARY SEWER
St.	STORM SEWER
W	WATER MAIN
G	GAS LINE
U/C	UNDERGROUND CABLES
O/L	OVERHEAD LINES
	MANHOLE
	STORM INLET
	FIRE HYDRANT
	LIGHT & UTILITY POLES
	GUY WIRE
	FENCE
	SIGN
	VALVE BOX
	GAS LINE MARKER
	TELEPHONE CLOSURE
I.P.S.	IRON PIN SET
I.P.Fd.	IRON PIN FD

PAVEMENT LEGEND

PROPOSED PAVEMENT

CONCRETE

0 40 80 FEET

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SITE DIMENSION PLAN
MOVEMENT CHURCH
WALKER RD. & MORRIS RD. BROWN TWP. FRANKLIN CO. OH.

DATE 10/12/2022
SCALE 1" = 40'
SHEET NO. 3 OF 9
FILE NO. SEI054

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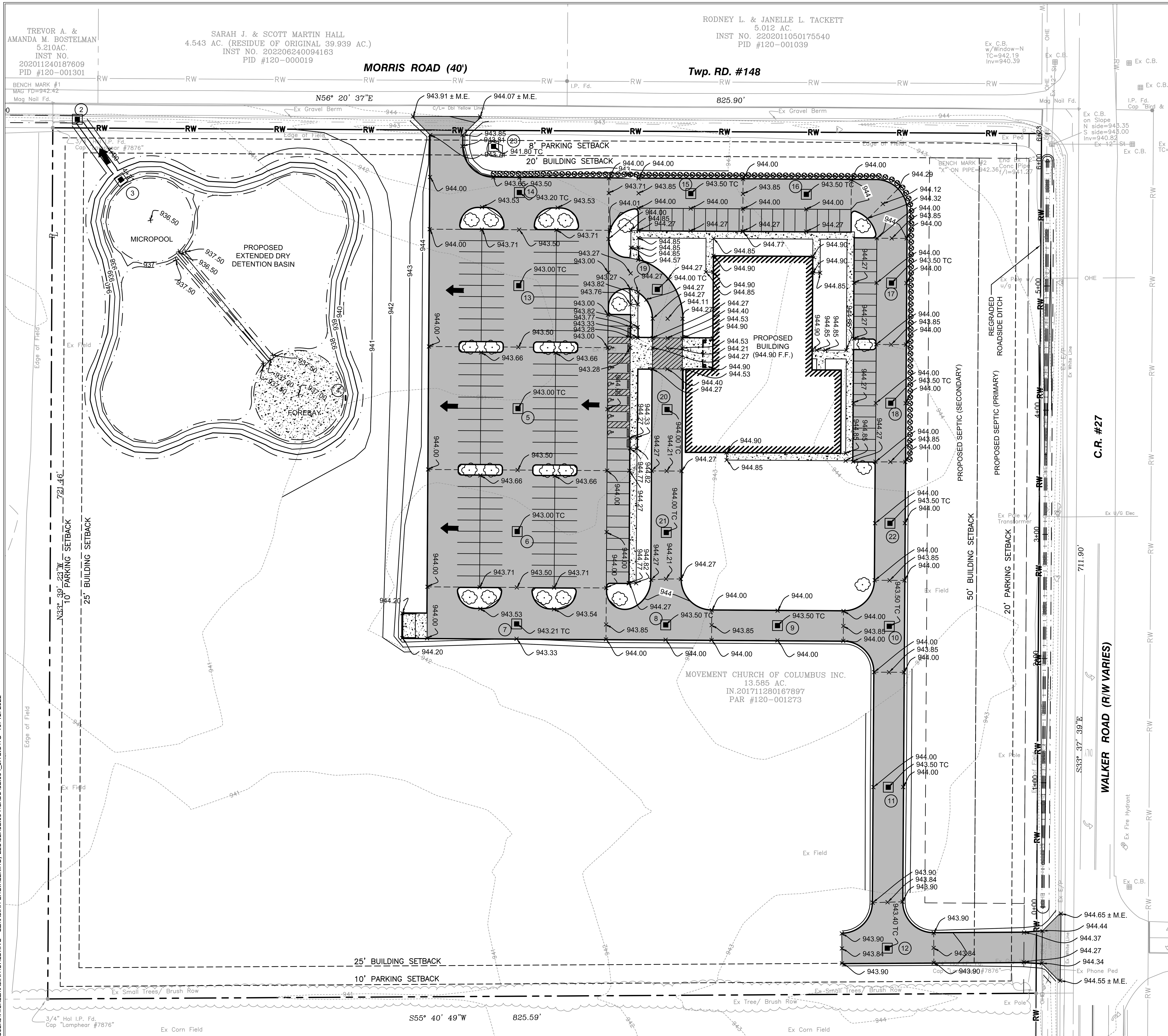

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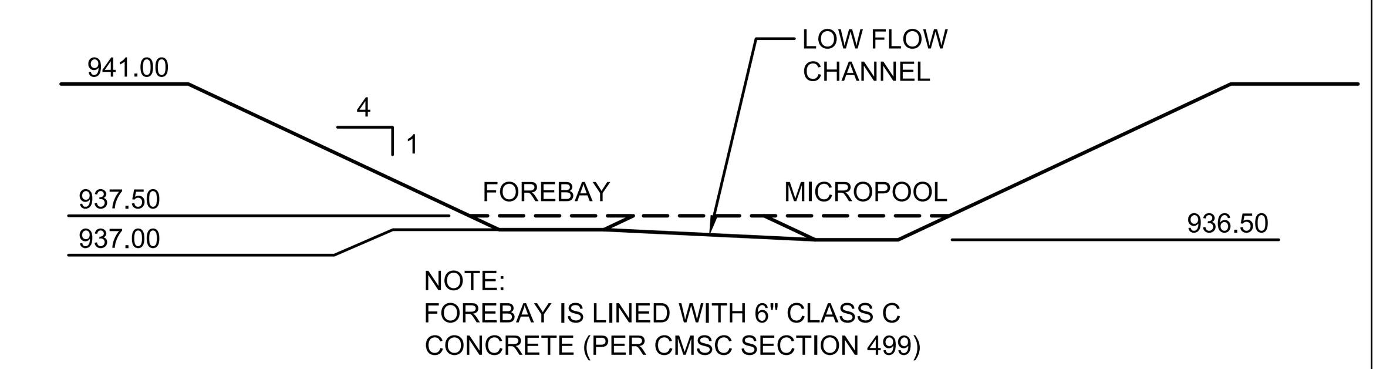
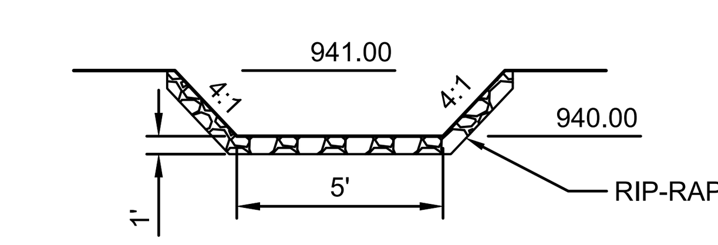
GRADING NOTES

1. THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITY PROTECTION SERVICE (800-362-2764) 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. PRIOR TO THE CONSTRUCTION OF THE STORM SEWER AND GRADING OPERATIONS THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTH OF ALL UTILITIES THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE EXISTING UTILITIES MAY BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION.
3. FIELD CONTROL SHALL BE VERIFIED IN THE GRADING OF AREAS WITH A SLOPE OF LESS THAN 1.5% TO MINIMIZE THE OCCURANCE OF UNWANTED PONDING.
4. BEFORE STARTING GRADING OPERATIONS, SEE DETAILS AND NOTES ON THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
5. PRIOR TO SITE CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL INSTALL ALL SWPP MEASURES TO PROTECT EXISTING DRAINAGE FACILITIES. CONTRACTOR SHALL PREVENT SILT FROM LEAVING THE SITE AT ALL TIMES.
6. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY. THE SOILS REPORT, IF ONE WAS PERFORMED, AND RECOMMENDATIONS SET FORTH THEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS.
7. ALL EXCAVATED OR FILLED AREAS SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT, IF ONE WAS PERFORMED. NOTIFY THE PROJECT ENGINEER IF ANY UNSUITABLE SOILS ARE FOUND.
8. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER FOR NECESSARY PLAN OR GRADE CHANGES NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
9. CONTRACTOR SHALL PROVIDE BUTT END JOINTS TO MEET EXISTING PAVEMENT.



EXTENDED DRY DETENTION BASIN DETAIL

NOT TO SCALE



EMERGENCY SPILLWAY DETAIL

NOT TO SCALE

LEGEND

825 (dashed)	EXISTING MAJOR CONTOUR
824 (dashed)	EXISTING MINOR CONTOUR
825 (solid)	PROPOSED MAJOR CONTOUR
824 (solid)	PROPOSED MINOR CONTOUR
— — — —	PROPOSED GRADE BREAK
× 873.00	PROPOSED SPOT ELEVATION
× 873.48± M.E.	PROPOSED SPOT ELEVATION, MATCH EXISTING
(arrow)	DRAINAGE ARROW
(arrow)	MAJOR FLOOD ROUTE (GREATER THAN 100 YR. EVENT)

0 40 80 FEET

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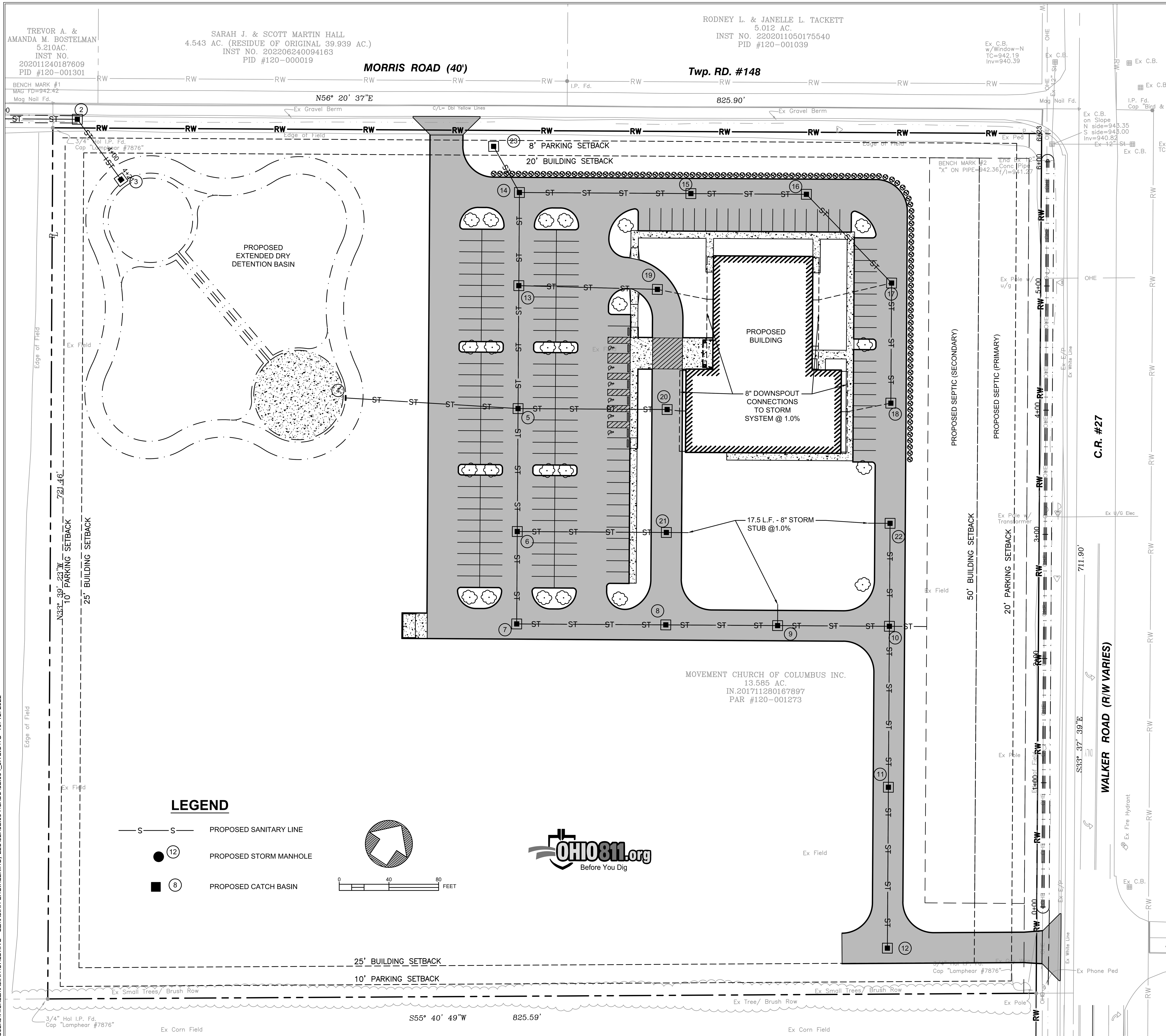
GRADING PLAN
MOVEMENT CHURCH
WALKER RD. & MORRIS RD. BROWN TWP. FRANKLIN CO. OH.

DATE 10/12/2022
SCALE 1" = 40'
SHEET NO. 4 OF 9
FILE NO. SEI054



MORRIS ROAD (40')
Twp. RD. #148
PROPOSED EXTENDED DRY DETENTION BASIN
PROPOSED BUILDING
8" DOWNSPOUT CONNECTIONS TO STORM SYSTEM @ 1.0%
17.5 L.F. - 8" STORM STUB @1.0%
PROPOSED SEPTIC (SECONDARY)
PROPOSED SEPTIC (PRIMARY)
50' BUILDING SETBACK
20' PARKING SETBACK
8' PARKING SETBACK
20' BUILDING SETBACK
25' BUILDING SETBACK
10' PARKING SETBACK
C.R. #27
WALKER ROAD (R/W VARIES)
MOVEMENT CHURCH OF COLUMBUS INC.
13.585 AC.
IN.201711280167897
PAR #120-001273
TREVOR A. & AMANDA M. BOSTELMAN
5.210AC.
INST NO. 202011240187609
PID #120-001301
SARAH J. & SCOTT MARTIN HALL
4.543 AC. (RESIDUE OF ORIGINAL 39.939 AC.)
INST NO. 202206240094163
PID #120-000019
RODNEY L. & JANELLE L. TACKETT
5.012 AC.
INST NO. 2202011050175540
PID #120-001039
N56° 20' 37"E
825.90'
S55° 40' 49"W
825.59'
N33° 39' 23"W
721.46'
S33° 37' 39"E
711.90'
LEGEND
PROPOSED SANITARY LINE
PROPOSED STORM MANHOLE
PROPOSED CATCH BASIN
0
40
80
FEET
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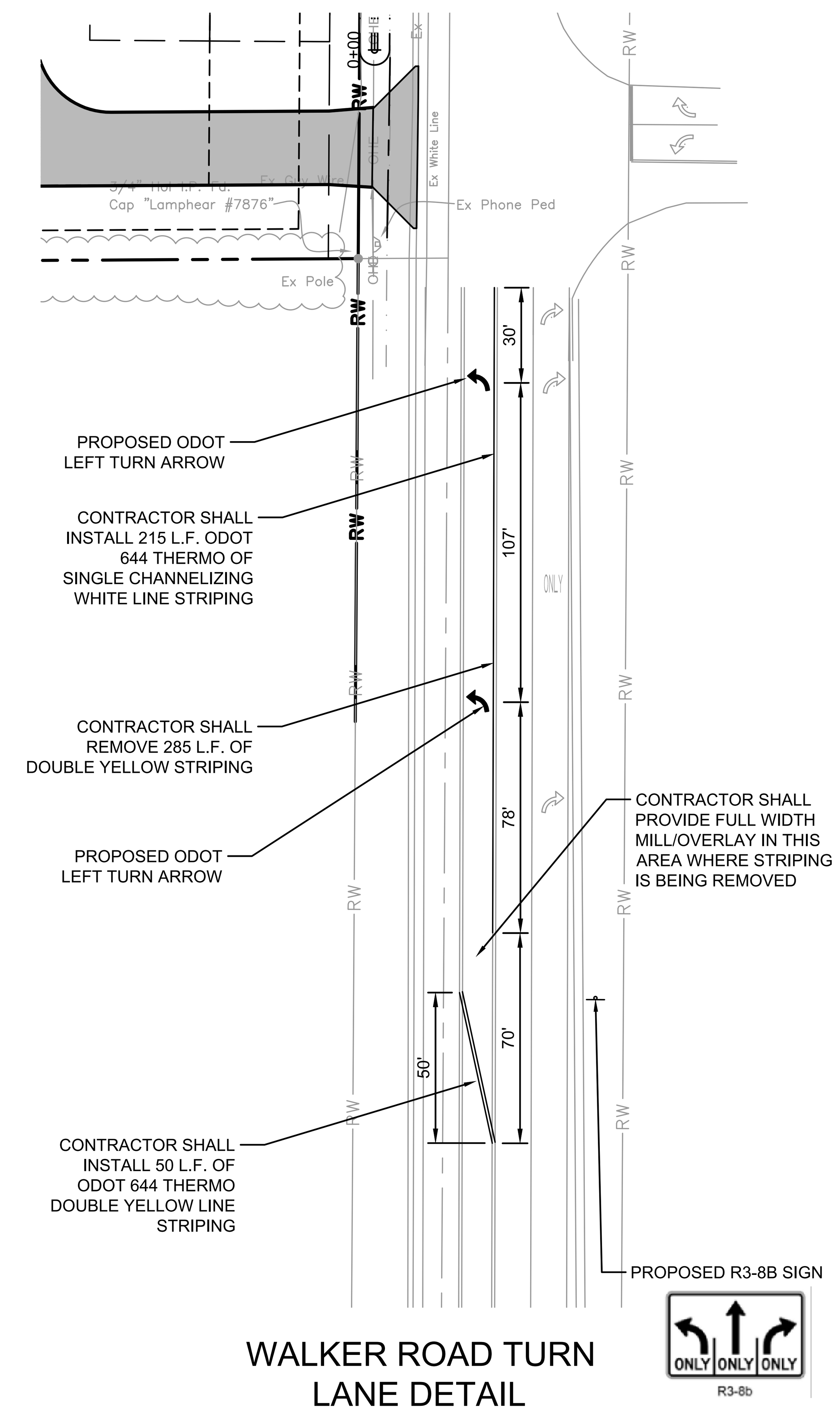
STORM SEWER NOTES

1. CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, INVERT ELEVATION, AND CONDITION OF EXISTING STORM SEWER PRIOR TO ANY CONSTRUCTION. CONTRACTOR IS TO ENSURE EXISTING SEWER IS IN GOOD CONDITION AND FREE FLOWING. IF ELEVATIONS DIFFER FROM WHAT IS SHOWN ON THIS DRAWING, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY. EXISTING DRAINAGE STRUCTURES ARE TO BE INSPECTED AND REPAIRED AS NEEDED AND EXISTING PIPES ARE TO BE CLEANED TO REMOVE ALL SILT AND DEBRIS.
2. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
3. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. THE GRATES SHALL BE BICYCLE SAFE. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER."
4. ALL STORM SEWER PIPE MATERIAL SHALL CONFORM TO ONE OR ALL OF THE FOLLOWING SPECIFICATIONS OR AS SPECIFIED ON THE PLANS:
   A. PVC CONFORMING TO ASTM D 3034, SDR 35, FOR ALL AREAS WITH 3 FEET OR GREATER COVER.
   B. CORRUGATED HIGH DENSITY POLYETHYLENE (HDPE) SMOOTH INTERIOR PIPE CONFORMING TO ASTM D 3350. FOR ALL OTHER AREAS WITH A MIN. 12 INCHES BELOW PAVEMENT SUBGRADE.
   C. REINFORCED CONCRETE PIPE CONFORMING TO ODOT CMS 706.02.
5. UTILITY LOCATIONS ON THIS SURVEY ARE REPORTED FROM FIELD LOCATIONS OR INFORMATION PROVIDED BY UTILITY REPRESENTATIVES. THIS DOES NOT MEAN THERE COULD NOT BE OTHER UTILITIES IN THE AREA.



PROPOSED ODOT LEFT TURN ARROW
CONTRACTOR SHALL INSTALL 215 L.F. ODOT 644 THERMO OF SINGLE CHANNELIZING WHITE LINE STRIPING
CONTRACTOR SHALL REMOVE 285 L.F. OF DOUBLE YELLOW STRIPING
PROPOSED ODOT LEFT TURN ARROW
CONTRACTOR SHALL PROVIDE FULL WIDTH MILL/OVERLAY IN THIS AREA WHERE STRIPING IS BEING REMOVED
CONTRACTOR SHALL INSTALL 50 L.F. OF ODOT 644 THERMO DOUBLE YELLOW LINE STRIPING
PROPOSED R3-8B SIGN
30'
107'
78'
70'
50'
ONLY
ONLY
ONLY
R3-8b

WALKER ROAD TURN LANE DETAIL

SCALE: 1" = 40'

ITEM 630 GROUND MOUNTED SUPPORT, AS PER PLAN
ALL GROUND MOUNTED POST SUPPORTS SHALL BE A SQUARE POST WITH ANCHOR BASE AS PER DETAIL ON ODOT STANDARD DRAWING TC-41.20. ALL POSTS SHALL BE 2"X2" 12 GAUGE SQUARE TUBING WITH OPEN HOLES AND ALL ANCHOR BASES SHALL BE 2¼" X 2¼" 12 GAUGE SQUARE TUBING WITH OPEN HOLES.

ITEM 630 SIGN, FLAT SHEET, AS PER PLAN
IN ADDITION TO 630, ALL REFLECTIVE SIGN SHEET MATERIAL SHALL BE 3M DIAMOND GRADE DG3, AVERY DENNISON OMNICUBE OR APPROVED EQUAL. THE MATERIAL SHALL MEET ASTM TYPE XI SPECIFICATIONS. NO SIGNS SHALL BE DIGITALLY PRINTED. ALL SHALL USE EITHER REVERSE SILK SCREEN TRANSPARENT INK, OR TRANSPARENT ACRYLIC ELECTRONIC CUTTABLE FILM OR DIRECT APPLIED REFLECTIVE COPY. WHATEVER METHODOLOGY IS USED, ALL MUST BE PART OF A MATCHED COMPONENT SYSTEM.

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UTILITY PLAN
MOVEMENT CHURCH
WALKER RD. & MORRIS RD. BROWN TWP. FRANKLIN CO. OH.

DATE	10/12/2022
SCALE	1" = 40'
SHEET NO.	5 OF 9
FILE NO.	SEI054

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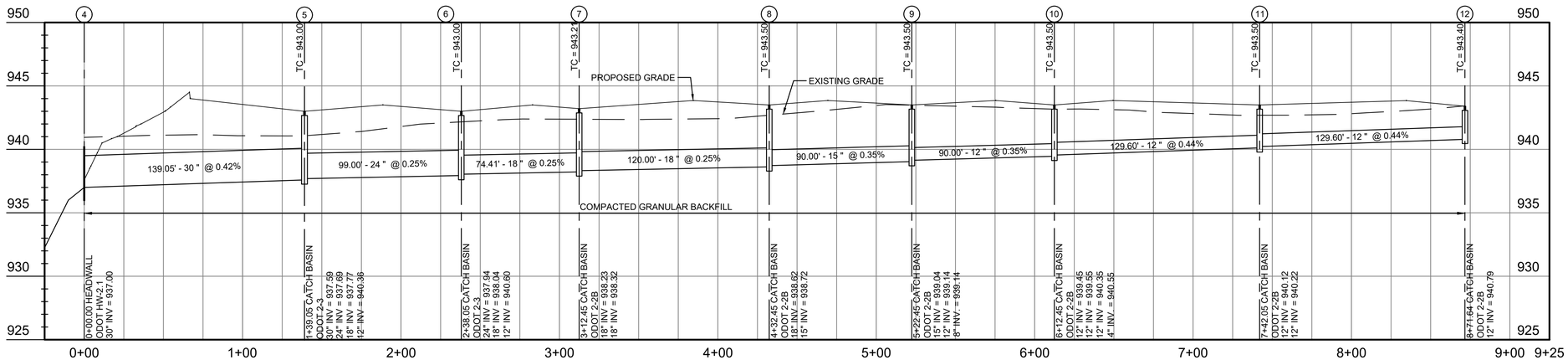

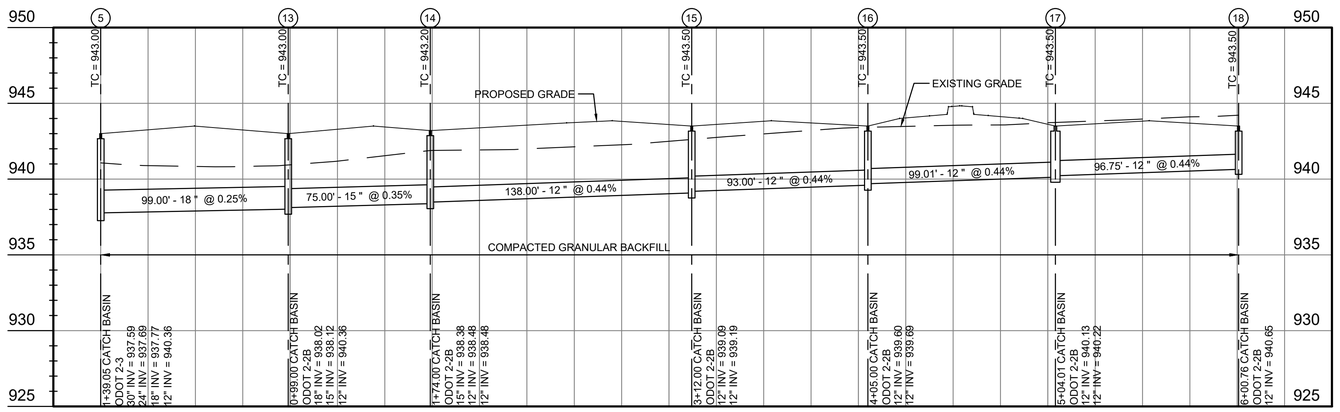

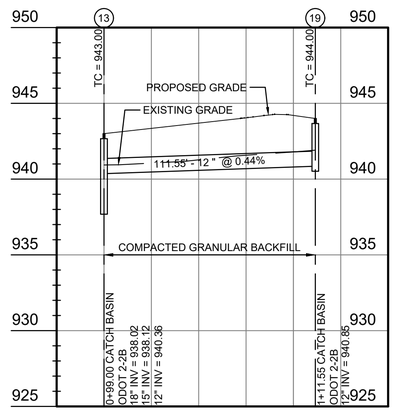

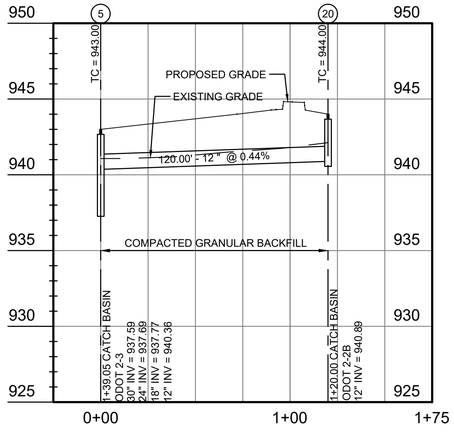

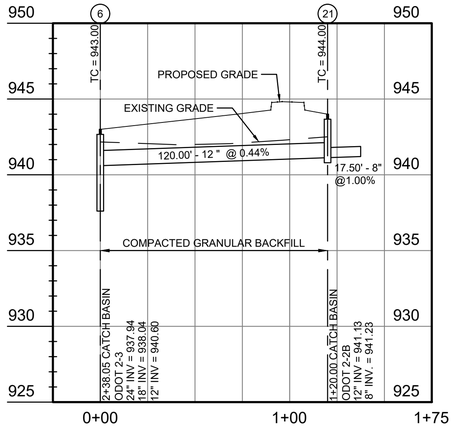

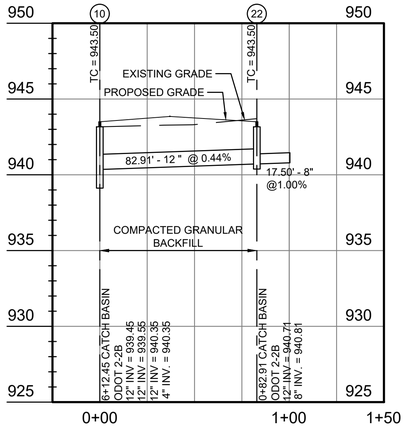

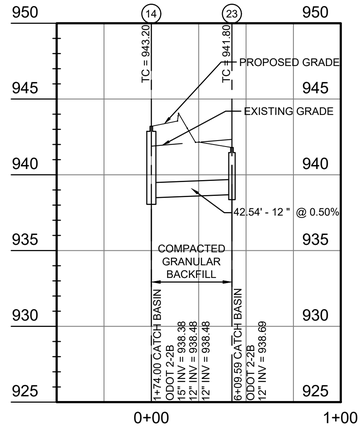

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BY
REVISION
DATE
NO.

STORM PROFILES
MOVEMENT CHURCH
WALKER RD. & MORRIS RD. BROWN TWP. FRANKLIN CO. OH.

DATE 10/12/2022
SCALE 1" = 40'
SHEET NO. 6 OF 9
FILE NO. SEI054

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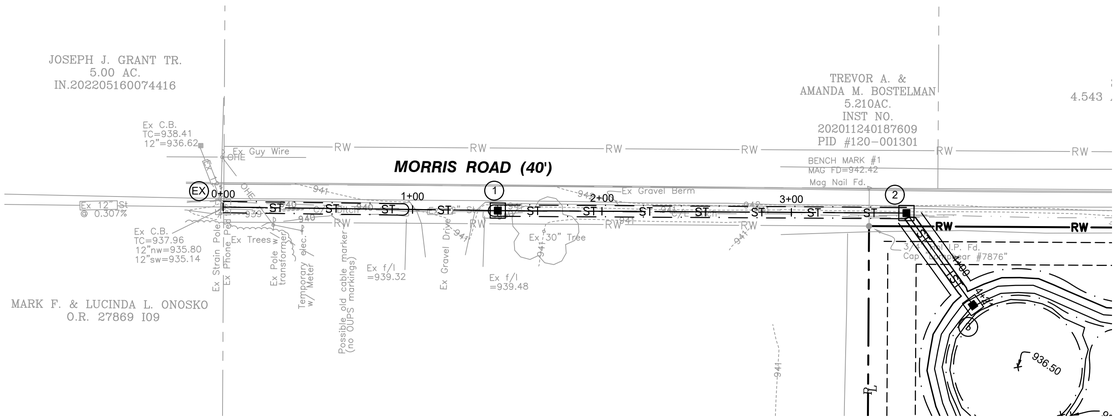
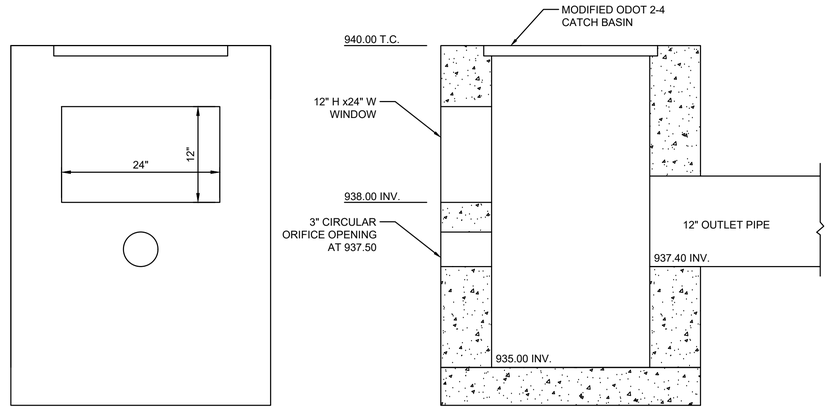
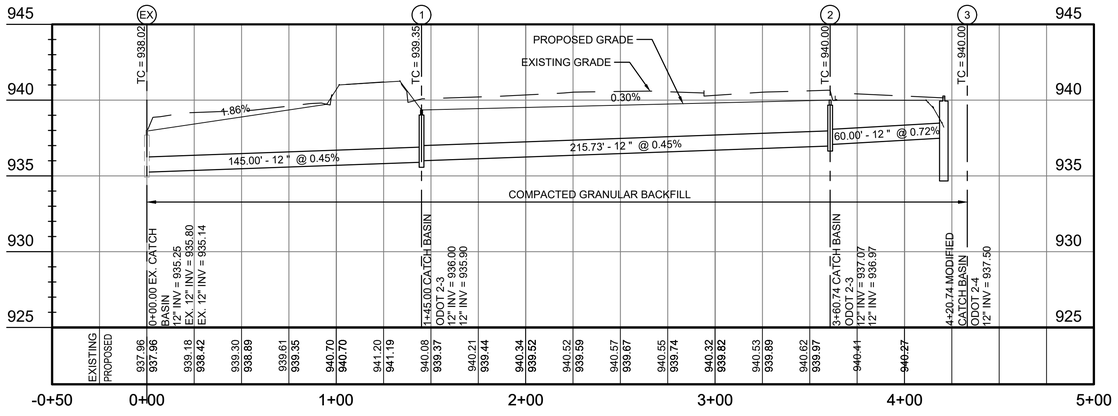




OUTLET CONTROL STRUCTURE (#3)

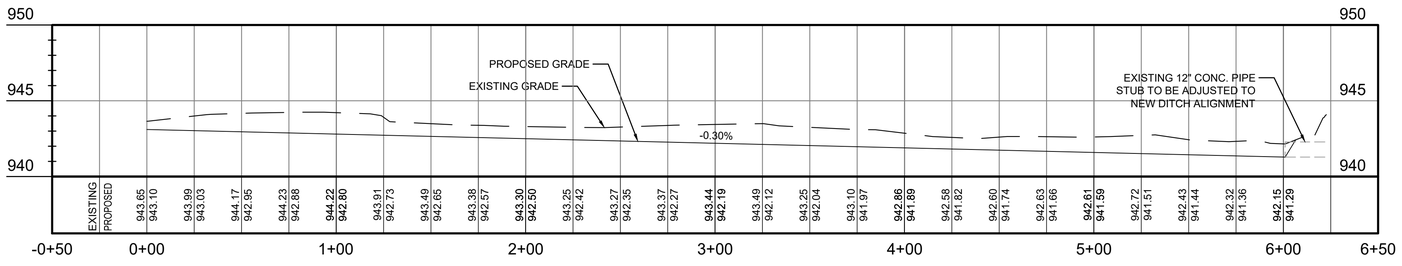
NOT TO SCALE



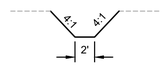
DITCH PROFILE ALONG MORRIS ROAD

ROADSIDE DITCH
ALONG MORRIS RD.

NOT TO SCALE



DITCH PROFILE ALONG WALKER ROAD



ROADSIDE DITCH
ALONG WALKER RD.

NOT TO SCALE

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BY
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NO.
DATE

DITCH PROFILES
MOVEMENT CHURCH
WALKER RD. & MORRIS RD. BROWN TWP. FRANKLIN CO. OH.

DATE 10/12/2022
SCALE 1" = 40'
SHEET NO. 7 OF 9
FILE NO. SEI054

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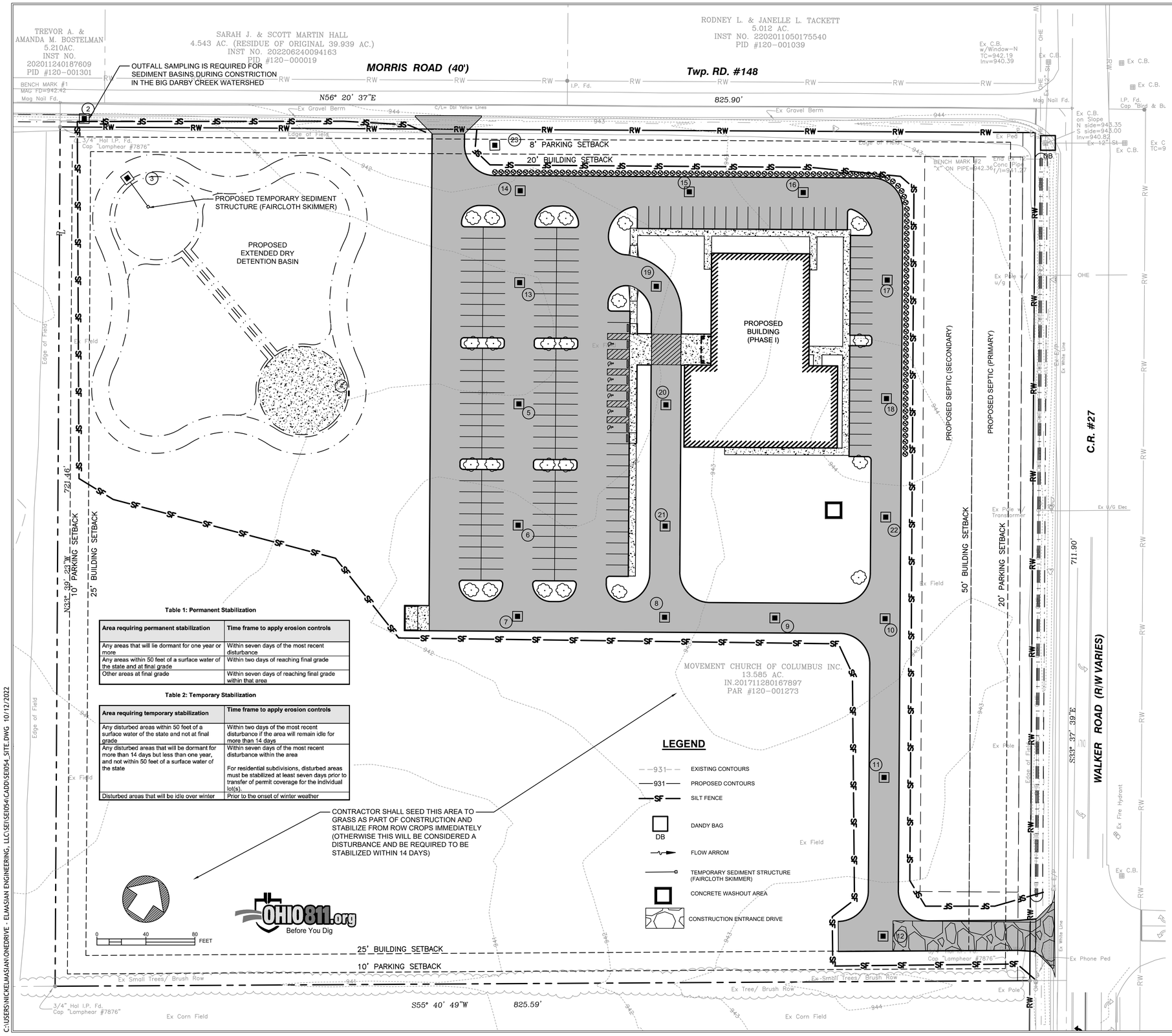

Table 1: Permanent Stabilization

Area requiring permanent stabilization	Time frame to apply erosion controls
Any areas that will lie dormant for one year or more	Within seven days of the most recent disturbance
Any areas within 50 feet of a surface water of the state and at final grade	Within two days of reaching final grade
Other areas at final grade	Within seven days of reaching final grade within that area

Table 2: Temporary Stabilization

Area requiring temporary stabilization	Time frame to apply erosion controls
Any disturbed areas within 50 feet of a surface water of the state and not at final grade	Within two 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 one year, and not within 50 feet of a surface water of the state	Within seven days of the most recent disturbance within the area For residential subdivisions, disturbed areas must be stabilized at least seven 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

LEGEND

- 931 — EXISTING CONTOURS
- 931 — PROPOSED CONTOURS
- SF — SILT FENCE
- DB — DANDY BAG
- FLOW ARROM
- TEMPORARY SEDIMENT STRUCTURE (FAIRCLOTH SKIMMER)
- CONCRETE WASHOUT AREA
- CONSTRUCTION ENTRANCE DRIVE

EROSION AND SEDIMENT CONTROL NOTES

GENERAL

1. THE STORMWATER POLLUTION PREVENTION PLAN IS COMPRISED OF THIS EROSION CONTROL PLAN. THE STANDARD DETAILS, THE PLAN NARRATIVE, THE O.D.O.T. MATERIALS & CONSTRUCTION STANDARDS (IF APPLICABLE) PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF OHIO'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (N.P.D.E.S. PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE S.W.P.P. PLAN. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
5. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
6. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
7. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEARING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
8. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
9. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED FOR AT LEAST 14 DAYS, SHALL BE TEMPORARILY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 7 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
10. SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED FOR 14 DAYS OR MORE
11. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
12. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
13. ON-SITE & OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
14. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
15. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, INLET FILTER, CHECK DAMS, ETC.) TO PREVENT EROSION.
16. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

INSPECTIONS

17. ONLY QUALIFIED INSPECTION PERSONNEL MAY PERFORM INSPECTIONS. AREAS TO INSPECT INCLUDE DISTURBED AREAS,MATERIAL STORAGE AREAS,EROSION AND SEDIMENT CONTROLS, DISCHARGE LOCATIONS AND VEHICLE ENTRANCE/EXIT LOCATIONS
18. INSPECTION CHECKLIST SHALL BE COMPLETED AND SIGNED BY INSPECTOR AFTER EVERY INSPECTION.
19. INSPECTION RECORDS SHALL BE KEPT FOR 3 YEARS AFTER CONSTRUCTION.
20. BMPS MUST BE REPAIRED, MAINTAINED OR A NEW FUNCTIONAL BMP INSTALLED WITHIN 3 DAYS OF INSPECTION FOR NON-SEDIMENT POND BMPS, AND WITHIN 10 DAYS OF INSPECTION FOR SEDIMENT PONDS (REPAIRED OR CLEANED OUT AND REPLACED IF NOT MEETING THE INTENDED FUNCTION OR MISSING FROM THE SITE.

OTHER CONTROLS

21. HANDLING OF TOXIC/HAZARDOUS MATERIALS - SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.

    ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED, PROPERLY TREATED AND/OR DISPOSED. IF CONCRETE CHUTES ARE TO BE WASHED, A PLACE MUST BE PROVIDED FOR THE WASH RUNOFF IN A PLACE AWAY FROM THE STORM SEWER. NO RUNOFF FROM THE WASHING OF CONCRETE CHUTES SHALL BE ALLOWED TO DRAIN TO STORM SEWER SYSTEM. THIS AREA TO BE DELINEATED ON RECORD DRAWING ON FILE IN JOB TRAILER.

    TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
22. WASTE DISPOSAL - RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
23. CONSTRUCTION CHEMICAL COMPOUNDS - AREAS USED FOR MIXING OR STORAGE OF COMPOUNDS SUCH AS FERTILIZERS, LIME, ASPHALT, OR CONCRETE MUST BE THIS AREA TO BE DELINEATED ON RECORD DRAWING ON FILE IN JOB TRAILER.
24. EQUIPMENT FUELING AND MAINTENANCE - AREAS USED FOR FUELING OR PERFORMING VEHICLE MAINTENANCE THAT PROVIDE SEPARATION FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR OTHER STORM WATER DRAINAGE AREAS MUST BE DELINEATED ON RECORD DRAWING ON FILE IN JOB TRAILER.
25. CONCRETE WASH WATERS - ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED, PROPERLY TREATED AND/OR DISPOSED. IF CONCRETE CHUTES ARE TO BE WASHED, A PLACE MUST BE PROVIDED FOR THE WASH RUNOFF IN A PLACE AWAY FROM THE STORM SEWER. NO RUNOFF FROM THE WASHING OF CONCRETE CHUTES SHALL BE ALLOWED TO DRAIN TO STORM SEWER SYSTEM. THIS AREA TO BE DELINEATED ON RECORD DRAWING ON FILE IN JOB TRAILER.
26. TRENCH AND GROUNDWATER CONTROL - THE BASIN SHALL BE DEWATERED USING A PUMP AND DEWATERING BAG UNTIL THE OUTLET STRUCTURE AND SKIMMER HAVE BEEN INSTALLED. REFER TO DETAIL ON NEXT SHEET.
27. SPILL REPORTING REQUIREMENTS - ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
28. OPEN BURNING - NO OPEN BURNING IS ALLOWED
29. DUST CONTROL - DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

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NO. | DATE | REVISION

EROSION AND SEDIMENT CONTROL PLAN
MOVEMENT CHURCH
WALKER RD. & MORRIS RD. BROWN TWP. FRANKLIN CO. OH.

DATE 10/12/2022
SCALE 1" = 40'
SHEET NO. 8 OF 9
FILE NO. SEI054

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SWPP CRITERIA

PLAN DESIGNER: ELMASIAN ENGINEERING, LLC
PO BOX 626
PATSKALA, OH 43062
PHONE: (614) 327-2008

OHIO811.org Before You Dig

OWNER: MOVEMENT CHRUCH
4515 COSGRAY RD
HILLIARD, OH 43026
PHONE: (740) 816-5422

PROJECT DESCRIPTION: THE PROJECT CONSISTS OF DEVELOPING APPROXIMATELY SIX ACRES OF VACANT GROUND INTO A CHURCH. STORMWATER MANAGEMENT WILL BE IN PLACE TO ACCOMMODATE THE ADDITIONAL STORM WATER RUNOFF.

EXISTING SITE CONDITIONS: THE MAJORITY OF THE PROJECT DISCHARGES TO THE SOUTH AND WEST.

RECEIVING STREAM: BIG DARBY CREEK

ADJACENT AREAS: THE PROJECT AREA IS LOCATED WITHIN A RURAL AREA.

EROSION & SEDIMENT MEASURES: EROSION AND SEDIMENT WILL BE CONTROLLED BY THE USE OF BASIN SEDIMENT, PERIMETER SEDIMENT FENCE, AS WELL AS CONSTRUCTION TECHNIQUES TO MINIMIZE LAND DISTURBANCE.

PERMANENT STABILIZATION: ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED. GEOTEXTILE REINFORCEMENT OF EARTHEN EMBANKMENT IS SPECIFIED WHEN IN VICINITY OF CHANNEL BANKS. HARDENED, NO-ERODIBLE MATERIALS ARE ALSO SPECIFIED FOR CHANNEL BANK REINFORCEMENT.

MAINTENANCE: AT A MINIMUM, ALL SEDIMENT AND EROSION CONTROLS ON THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN ONE HALF INCH OF RAIN PER 24 HOUR PERIOD. ANY DAMAGED FACILITIES ARE TO BE REPLACED/REPAIRED IMMEDIATELY AS MAY BE NECESSARY.

CONSTRUCTION: THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE COUNTY. SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE PLACED AND MAINTAINED IN ACCORDANCE WITH THIS SCHEDULE.

TOXIC OR HAZARDOUS WASTE, CHEMICAL STORAGE OR EQUIPMENT FUELING AND MAINTENANCE: NONE

DISPOSAL OF CONSTRUCTION DEBRIS AND OPEN BURNING: NONE

DISTURBED AREA: APPROXIMATELY 6.2 ACRES

EPA NOI PERMIT NO. TBD

SEDIMENT SETTLING PONDS ADDITIONAL CONDITIONS:

THE SEDIMENT SETTLING POND SHALL BE SIZED TO PROVIDE A MINIMUM SEDIMENT STORAGE VOLUME OF 134 CUBIC YARDS OF EFFECTIVE SEDIMENT STORAGE PER ACRE OF DRAINAGE AND MAINTAIN A TARGET DISCHARGE PERFORMANCE STANDARD OF 45 MG/L TOTAL SUSPENDED SOLIDS (TSS) UP TO A 0.75-INCH RAINFALL EVENT WITHIN A 24-HOUR PERIOD. UNLESS INFEASIBLE, SEDIMENT SETTLING PONDS MUST BE DEWATERED AT THE POND SURFACE USING A SKIMMER OR EQUIVALENT DEVICE. THE DEPTH OF THE SEDIMENT SETTLING POND MUST BE LESS THAN OR EQUAL TO FIVE FEET. SEDIMENT MUST BE REMOVED FROM THE SEDIMENT SETTLING POND WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 40 PERCENT (THIS IS TYPICALLY REACHED WHEN SEDIMENT OCCUPIES ONE-HALF OF THE BASIN DEPTH).

SILT FENCE AND DIVERSIONS. FOR SITES FIVE OR MORE ACRES IN SIZE, THE USE OF SEDIMENT BARRIERS AS A PRIMARY SEDIMENT CONTROL IS PROHIBITED. CENTRALIZED SEDIMENT BASINS SHALL BE USED FOR SITES 5 OR MORE ACRES IN SIZE. DIVERSIONS SHALL DIRECT ALL STORM WATER RUNOFF FROM THE DISTURBED AREAS TO THE IMPOUNDMENT INTENDED FOR SEDIMENT CONTROL. THE SEDIMENT BASINS AND ASSOCIATED DIVERSIONS SHALL BE IMPLEMENTED PRIOR TO THE MAJOR EARTH DISTURBING ACTIVITY.

THE PERMITTEE SHALL SAMPLE IN ACCORDANCE WITH SAMPLING PROCEDURES OUTLINED IN 40 CFR 136. SAMPLING SHALL OCCUR AS FOLLOWS:

I. OCCUR AT THE OUTFALL OF EACH SEDIMENT SETTLING POND ASSOCIATED WITH THE SITE. EACH ASSOCIATED OUTFALL SHALL BE IDENTIFIED BY A THREE-DIGIT NUMBER (001, 002, ETC.);

II. THE APPLICABLE RAINFALL EVENT FOR SAMPLING TO OCCUR SHALL BE A RAINFALL EVENT OF 0.25-INCHTO A 0.75-INCH RAINFALL EVENT TO OCCUR WITHIN A 24-HOUR PERIOD. GRAB SAMPLING SHALL BE INITIATED AT A SITE WITHIN 14 DAYS, OR THE FIRST APPLICABLE RAINFALL EVENT THEREAFTER, ONCE UPSLOPE DISTURBANCE OF EACH SAMPLING LOCATION IS INITIATED AND SHALL CONTINUE ON A QUARTERLY BASIS. QUARTERLY PERIODS SHALL BE REPRESENTED AS JANUARY - MARCH, APRIL - JUNE, JULY - SEPTEMBER AND OCTOBER - DECEMBER. SAMPLING RESULTS SHALL BE RETAINED ON SITE AND AVAILABLE FOR INSPECTION.

IF ANY SAMPLE IS GREATER THAN THE PERFORMANCE STANDARD OF 45 MG/L TSS, THE PERMITTEE SHALL MODIFY THE SWP3 AND INSTALL/IMPLEMENT NEW CONTROL PRACTICE(S) WITHIN 10 DAYS TO ENSURE THE TSS PERFORMANCE STANDARD IS MAINTAINED. WITHIN 3 DAYS OF IMPROVEMENT(S), OR THE FIRST APPLICABLE RAINFALL EVENT THEREAFTER, THE PERMITTEE SHALL RESAMPLE TO ENSURE SWP3 MODIFICATIONS MAINTAIN THE TSS PERFORMANCE STANDARD TARGET.

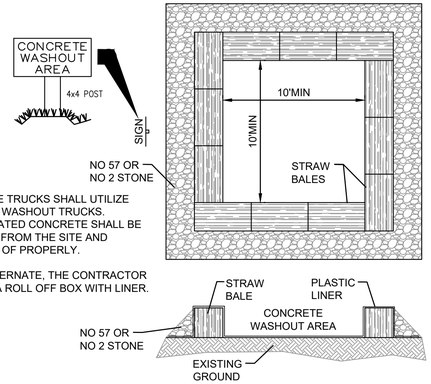
FOR EACH SAMPLE TAKEN, THE PERMITTEE SHALL RECORD THE FOLLOWING INFORMATION:
- THE OUTFALL AND DATE OF SAMPLING;
- THE PERSON(S) WHO PERFORMED THE SAMPLING;
- THE DATE THE ANALYSES WERE PERFORMED ON THOSE SAMPLES;
- THE PERSON(S) WHO PERFORMED THE ANALYSES;
- THE ANALYTICAL TECHNIQUES OR METHODS USED; AND
- THE RESULTS OF ALL ANALYSES.

BOTH QUARTERLY AND SAMPLING RESULTS FOLLOWING A DISCHARGE TARGET EXCEEDANCE SHALL BE RETAINED ON SITE AND AVAILABLE FOR INSPECTION.

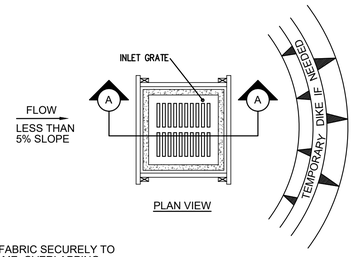
TEMPORARY SEDIMENT POND
DURING CONSTRUCTION, A SEDIMENT SETTLING POND WILL BE REQUIRED.

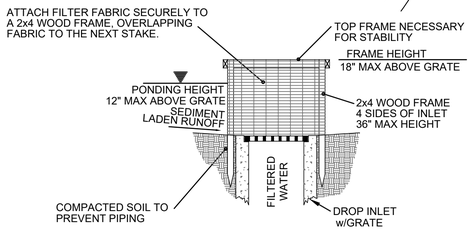
DEWATERING ZONE VOLUME:
3600 CF PER ACRE OF DRAINAGE = 3600 * 8.67 = 31,212 CF

SEDIMENT STORAGE ZONE VOLUME:
134 CY PER ACRE OF DRAINAGE = 134 * 8.67 = 1,162 CY
1,162 CY = 31,368 CF = 0.65' DEPTH = 938.15 ELEV.



CONCRETE WASHOUT AREA
NO SCALE





SECTION A-A

SPECIFIC APPLICATION:
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET AND HIGHWAY MEDIANS.

FILTER FABRIC CATCH BASIN PROTECTION
NO SCALE

CONSTRUCTION SPECIFICATIONS:

STONE SIZE: NO. 2 (2-1/2" TO 1-1/2") OR ITS EQUIVALENT.

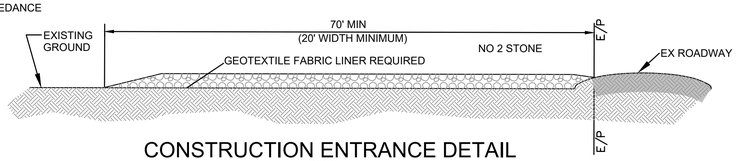
LENGTH: AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.

THICKNESS: NOT LESS THAN EIGHT (8) INCHES.

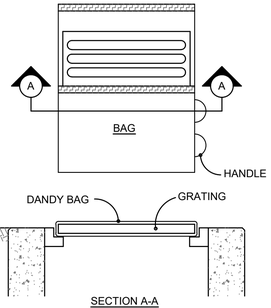
WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS

WASHING: WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.

MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.



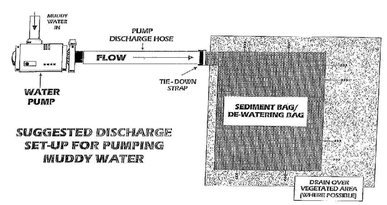
CONSTRUCTION ENTRANCE DETAIL
NO SCALE



INSTALLATION: STAND GRATE ON END. PLACE THE BAG OVER GRATE. FLIP GRATE OVER SO THAT OPEN END IS UP. PULL UP SLACK. TUCK FLAP IN. BE SURE END OF GRATE IS COMPLETELY COVERED BY FLAP OR THE BAG WILL NOT FIT PROPERLY. HOLDING HANDLES, CAREFULLY PLACE THE BAG WITH GRATE INSERTED INTO CATCH BASIN FRAME.

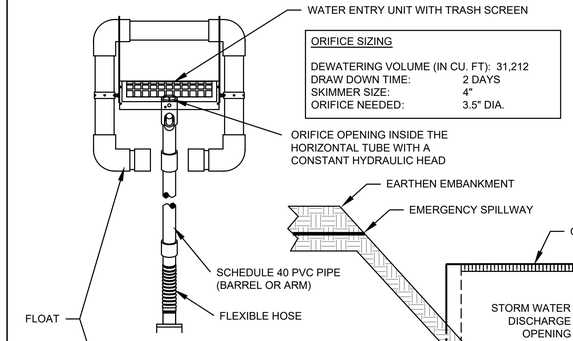
MAINTENANCE: WITH A STIFF BRISTLE BROOM OR A SQUARE POINT SHOVEL, REMOVE SILT AND OTHER DEBRISOFF OF THE SURFACEAFTER EACH EVENT.

CATCH BASIN PROTECTION
NO SCALE



DEWATERING BAG DETAIL
NO SCALE

NOTE:
DISCHARGE HOSES USED DURING PUMPING ACTIVITIES SHALL BE FITTED WITH SEDIMENT BAGS THAT ARE PROPERLY SIZED PER MANUFACTURER'S RECOMMENDATIONS REGARDLESS OF WHAT OTHER SEDIMENT CONTROLS ARE IN PLACE FURTHER DOWNSTREAM. SEDIMENT BAGS MUST BE PROPERLY SECURED TO THE DISCHARGE HOSE AND PLACED OVER VEGETATED AREAS, WHERE FEASIBLE, DURING DISCHARGE.



GENERAL NOTES:
1. PROPER DESIGN MUST BE COMPLETED TO MINIMIZE PIPING AROUND DISCHARGE PIPE.
2. PROPER ORIFICE OPENING MUST BE SELECTED TO ENSURE POND DRAINS IN CORRECT AMOUNT OF TIME. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE.
3. EMBANKMENT MUST BE COMPACTED TO DESIGN SPECIFICATIONS.
4. EMERGENCY SPILLWAY MUST BE CORRECTLY SIZED AND EROSION PROTECTION INSTALLED.
5. EROSION PROTECTION MUST BE INSTALLED ALONG THE EMBANKMENT AND AT THE DISCHARGE END OF THE PIPE.
6. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
7. EIGHT SIZES OF SKIMMERS ARE AVAILABLE, REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.

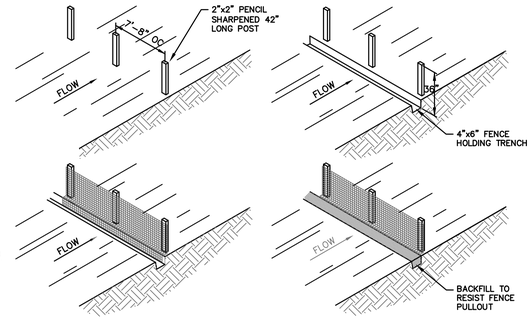
TEMPORARY SEDIMENT STRUCTURE
FAIRCLOTH SKIMMER DISCHARGE SYSTEM WITH OUTLET STRUCTURE
NOT TO SCALE

CONSTRUCTION SEQUENCE

1. INSTALL THE CONSTRUCTION ENTRANCE.
2. INSTALL REQUIRED SEDIMENT FENCE & INSTALL THE TEMPORARY SEDIMENT BASIN (7 DAYS PRIOR TO GRADING).
3. CONSTRUCT PROPOSED BUILDING AND ASPHALT DRIVES.
4. STABILIZE THE DISTURBED AREAS PER TEMPORARY AND PERMANENT SEEDING REQUIREMENTS.
5. REMOVE STORM SEWER INLET PROTECTION.
6. INSPECT AND CLEAN SYSTEM, AS REQUIRED.
7. INSPECT BMP PERFORMANCE WITH THE APPROVED MAINTENANCE SCHEDULE.

NOTE: THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE IN LINEAR INSTALLATIONS.

FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB MIN	ASTM 1682
MULLEN BURST STRENGTH	190 PSI MIN	ASTM 3786
SLURRY FLOW RATE	0.3 GAL/MIN/F^2 MAX	
EQUIVALENT OPENING SIZE	40-80	US STD SIEVE CW-02215
ULTRAVIOLET RADIATION STABILITY	90% MIN	ASTM-G-26



SILT FENCE DETAIL
NO SCALE

SILT FENCE:
THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.

MATERIAL PROPERTIES ARE:
THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE TO THE STRUCTURE).

THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM OF A 6-INCH OVERLAP AND SECURELY SEALED.

POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WOOD POSTS WILL BE A MINIMUM OF 32 INCHES LONG. WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.

A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.

WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POST USING HEAVY DUTY WIRE STAPLES AT LEAST ONE INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF TWO INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6 APPLYING.

THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

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

MAINTENANCE:
SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE PREPARED AND SEEDED.

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BY

REVISION

NO. | DATE

EROSION AND SEDIMENT CONTROL DETAILS

MOVEMENT CHURCH

WALKER RD. & MORRIS RD. BROWN TWP. FRANKLIN CO. OH.

DATE 10/12/2022

SCALE N/A

SHEET NO. 9 OF 9

FILE NO. SEI054

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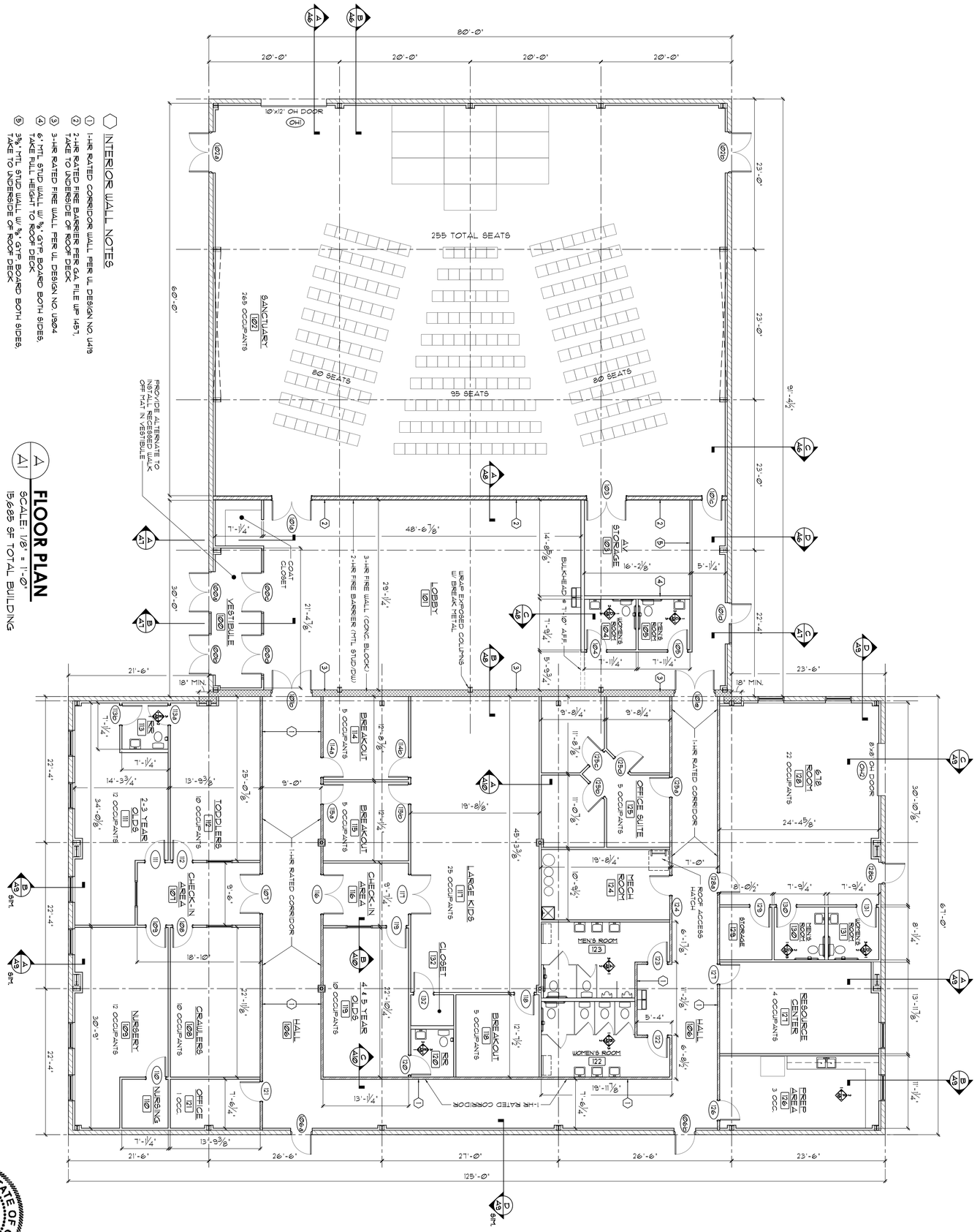

INTERIOR WALL NOTES

1. 1-HR RATED CORRIDOR WALL PER UL DESIGN NO. U419
2. 2-HR RATED FIRE BARRIER PER GA FILE WP 1457. TAKE TO UNDERSIDE OF ROOF DECK
3. 3-HR RATED FIRE WALL PER UL DESIGN NO. U804
4. 6" MTL STUD WALL W/ ⅝" GYP BOARD BOTH SIDES. TAKE FULL HEIGHT TO ROOF DECK.
5. 3⅝" MTL STUD WALL W/ ⅝" GYP BOARD BOTH SIDES. TAKE TO UNDERSIDE OF ROOF DECK

A1 FLOOR PLAN

SCALE: 1/8" = 1'-0"

15,685 SF TOTAL BUILDING

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A1

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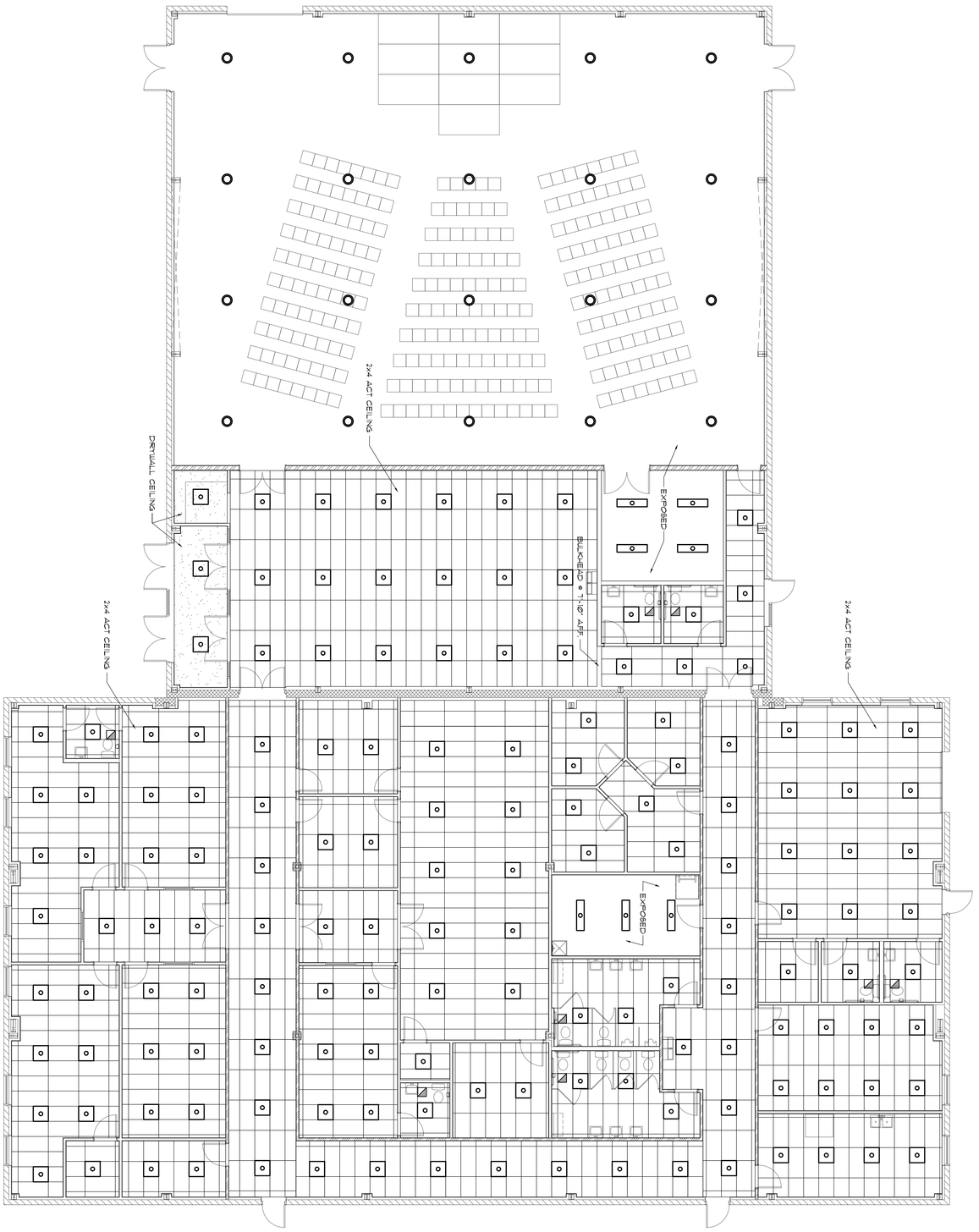

A2 A

REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

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A2

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NOTES:
1. LOCATIONS & WEIGHTS OF ROOFTOP UNITS ARE APPROXIMATE.
2. ROOFTOP UNIT WEIGHTS DO NOT INCLUDE ROOF CURB.

A3 **ROOF PLAN**
SCALE: 1/8" = 1'-0"

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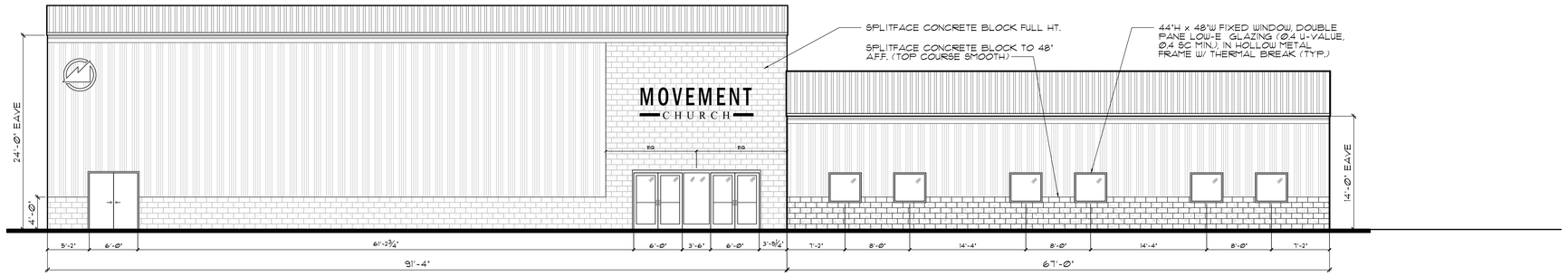
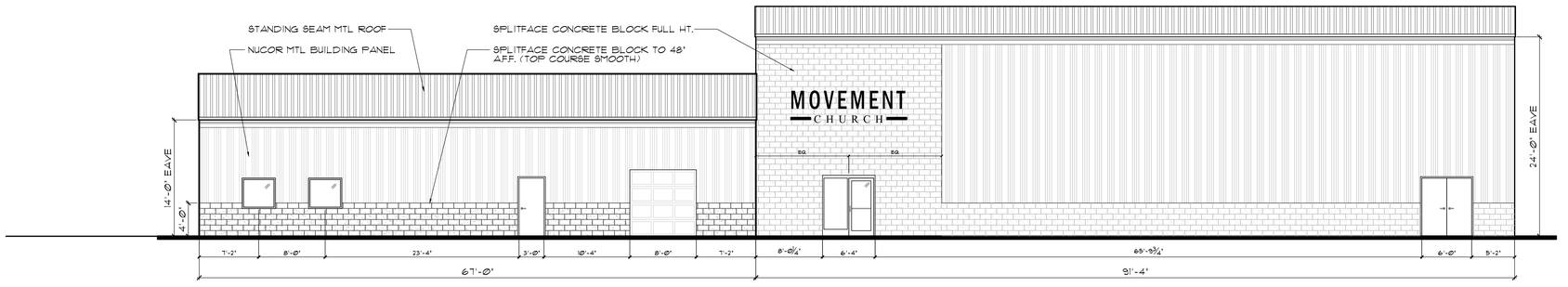
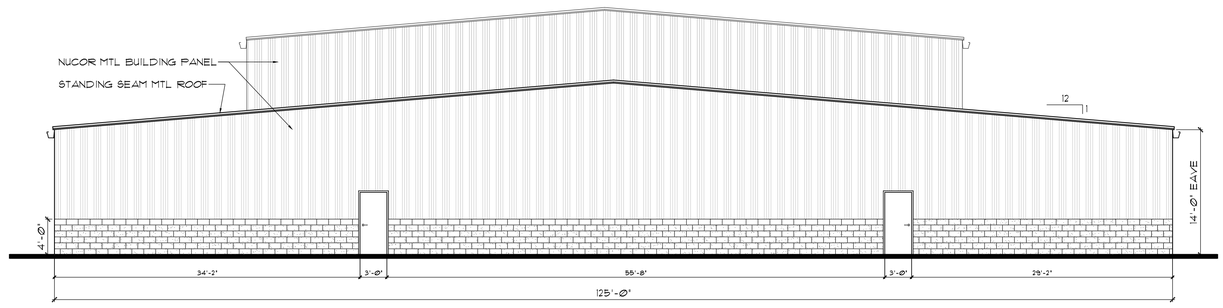
A3



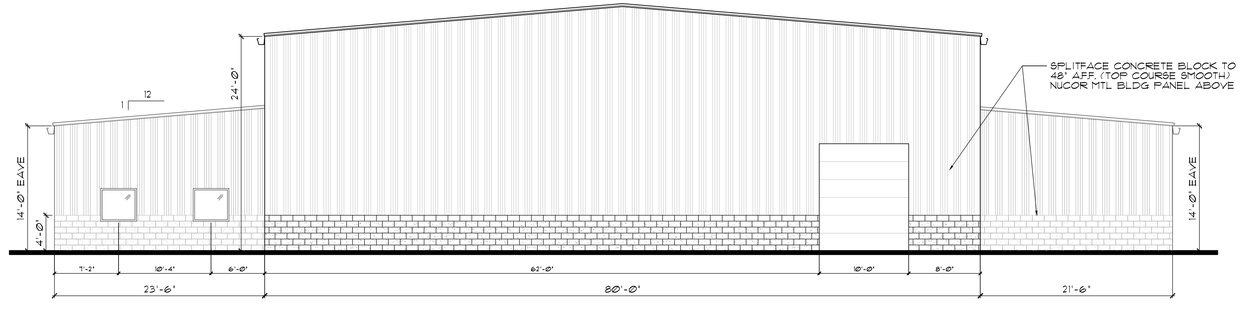
A/A4 **PARKING LOT ELEVATION**
SCALE: 1/8" = 1'-Ø"



B/A4 **FRONT (ROAD) ELEVATION**
SCALE: 1/8" = 1'-Ø"



C/A4 **CLASSROOM SIDE ELEVATION**
SCALE: 1/8" = 1'-Ø"



D/A4 **SANCTUARY SIDE ELEVATION**
SCALE: 1/8" = 1'-Ø"

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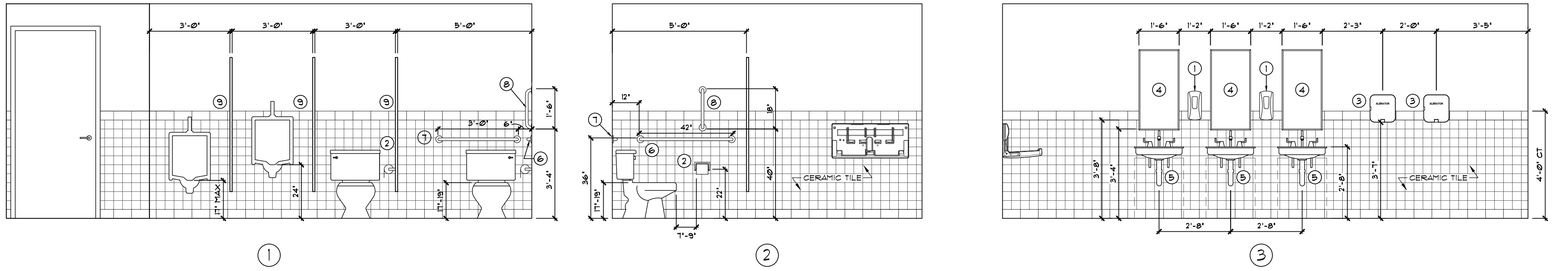
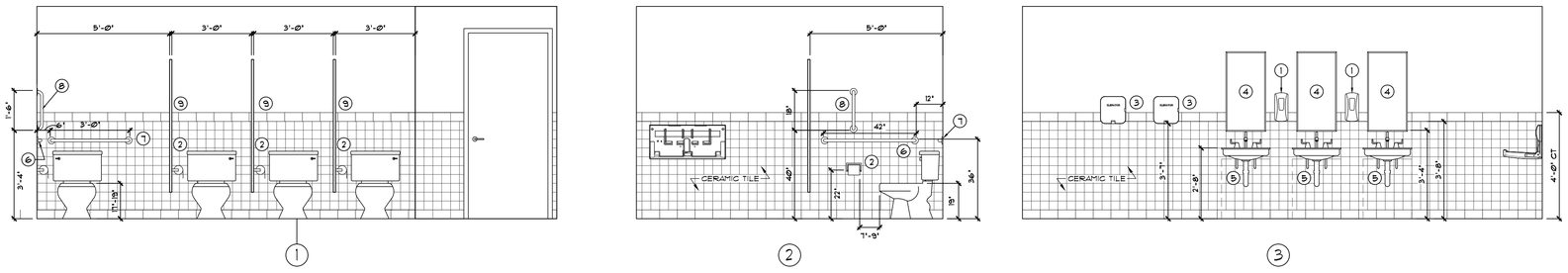


1 2 3

A/A5 MEN'S RESTROOM ELEVATIONS

SCALE: 1/8" = 1'-0"

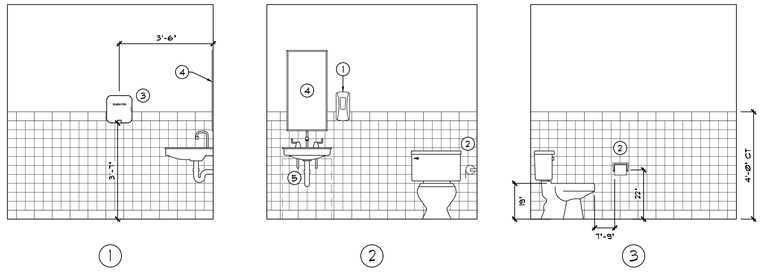


1 2 3

B/A5 WOMEN'S RESTROOM ELEVATIONS

SCALE: 1/8" = 1'-0"

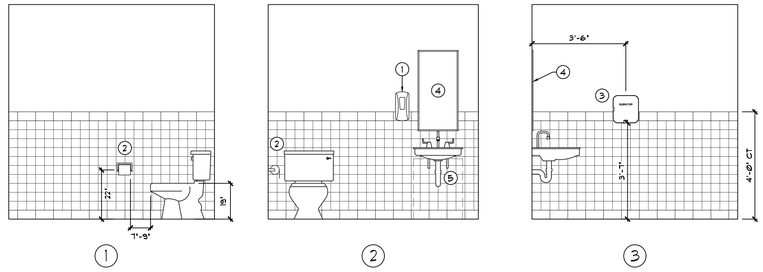
ACCESSORIES SCHEDULE				
NO.	ITEM	MAKE	QUANTITY	REMARKS
1	SOAP DISPENSER	FIVE STAR LTX-12 DISPENSER 1200ML CHROME/BLK TOUCH FREE	10	SURFACE MOUNTED W/ REFILLABLE HAND CLEANER PACKETS, MODEL #61313-04, MOUNT @ 44" A.F.F.
2	TOILET PAPER DISP.	BOBRICK B-265	12	-
3	HAND DRYER	XLERATOR HAND DRYER, GRAPHITE TEXTURED PAINTED	10	MODEL #XL-GR, MOUNTING HEIGHTS: MEN'S @ 45" A.F.F., WOMEN'S @ 43" A.F.F., ADA @ 31" A.F.F.
4	MIRROR	BOBRICK B-165 2436	12	MOUNT @ 40" TO REFLECTIVE SURFACE
5	INSULATION WRAP	BROCAR	12 SETS	C500DR, INSTALL @ EACH EXPOSED LAVATORY
6	GRAB BAR	BOBRICK B-6806	6	42", 1 1/2" DIA. MOUNT @ 36" A.F.F. TO TOP OF BAR
7	GRAB BAR	BOBRICK B-6806	6	36", 1 1/2" DIA. MOUNT @ 36" A.F.F. TO TOP OF BAR
8	GRAB BAR	BOBRICK B-6806	6	18", 1 1/2" DIA. MOUNT VERTICAL AS SHOWN
9	TOILET PARTITIONS	GENERAL PARTITIONS SN-248	-	FLOOR MOUNTED, METAL, POWDER COATED STEEL
10	URINAL SCREEN	GENERAL PARTITIONS SN-248	1	WALL MOUNTED, METAL, POWDER COATED STEEL



1 2 3

C/A5 MEN'S RESTROOM ELEVATIONS

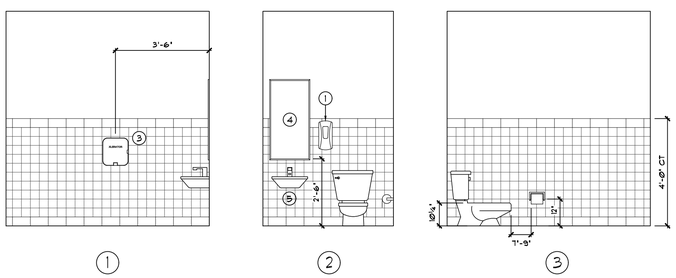
SCALE: 1/8" = 1'-0"



1 2

D/A5 WOMEN'S RESTROOM ELEVATIONS

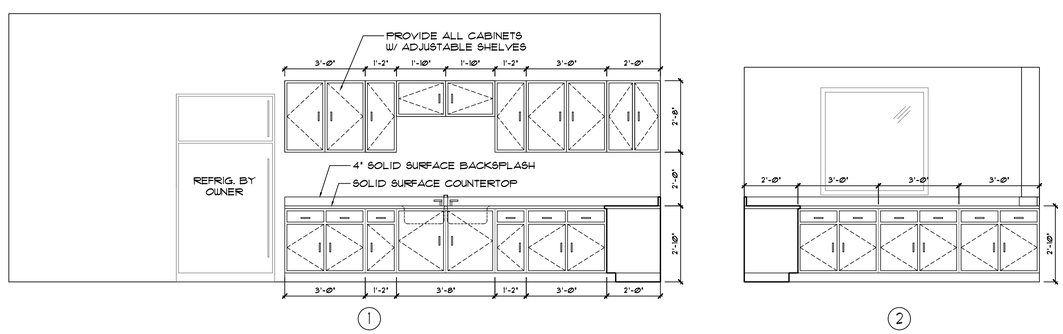
SCALE: 1/8" = 1'-0"



1 2 3

E/A5 KID'S RESTROOM ELEVATIONS

SCALE: 1/8" = 1'-0"



1 2

F/A5 KITCHENETTE ELEVATIONS

SCALE: 1/8" = 1'-0"

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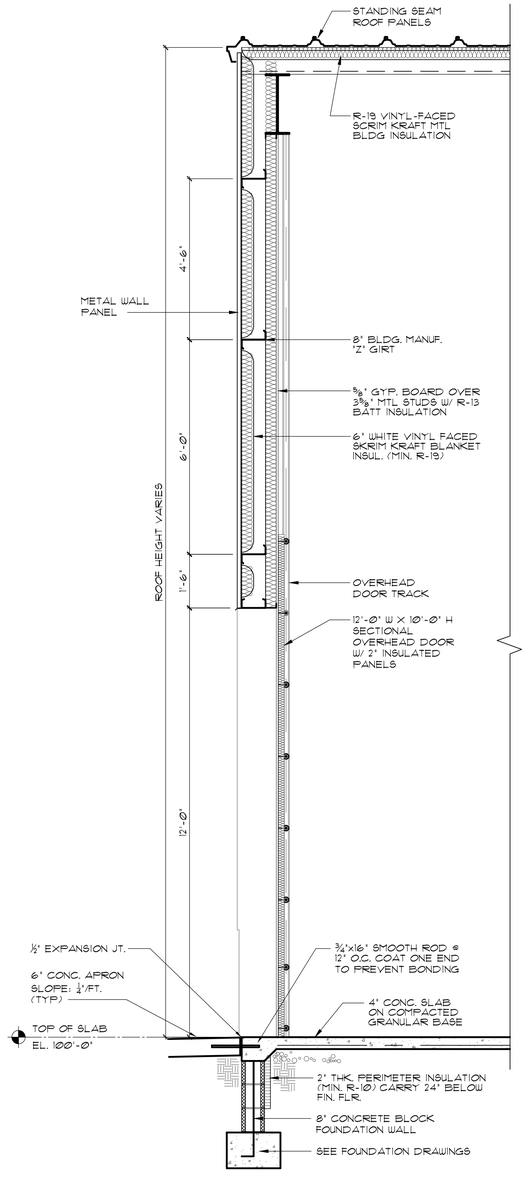
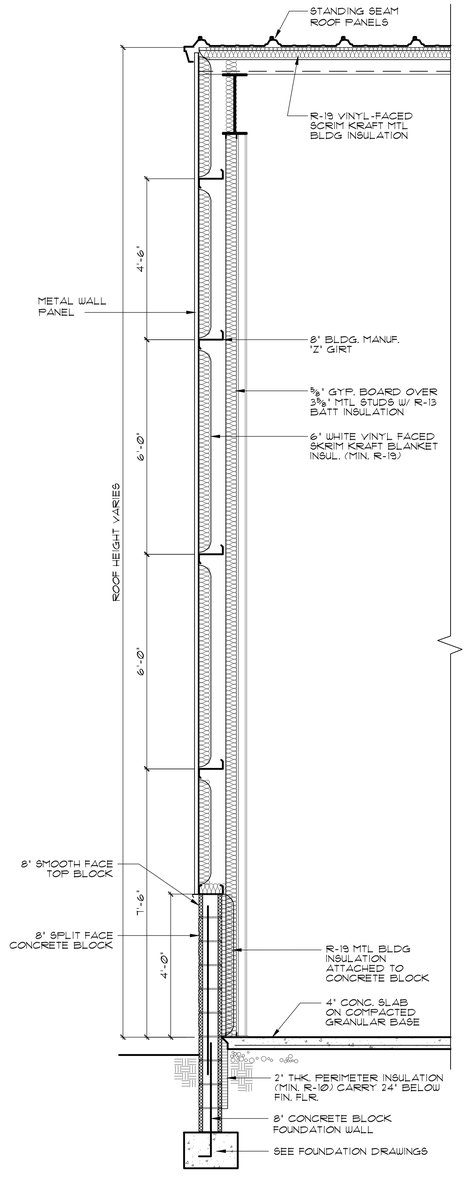
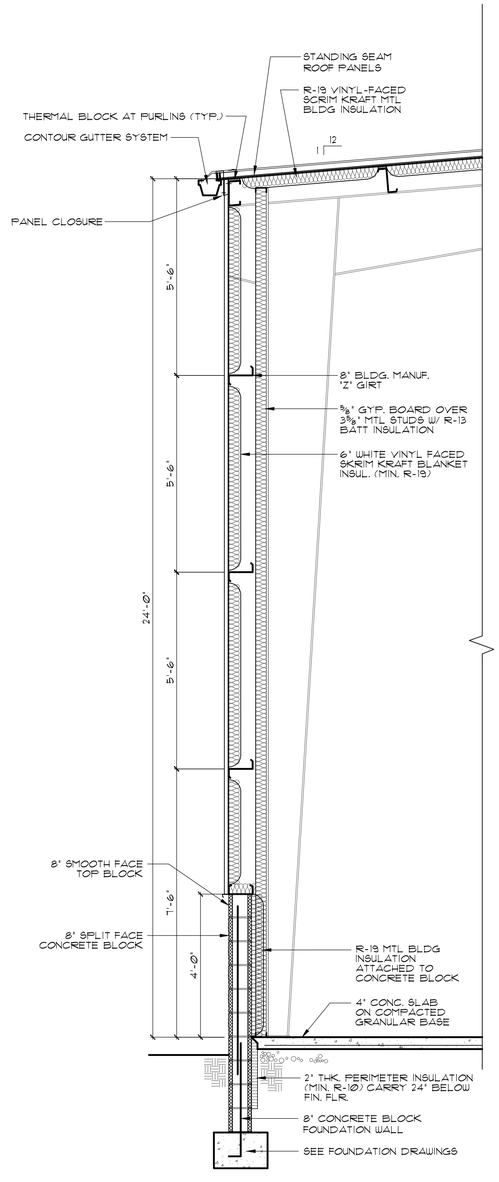


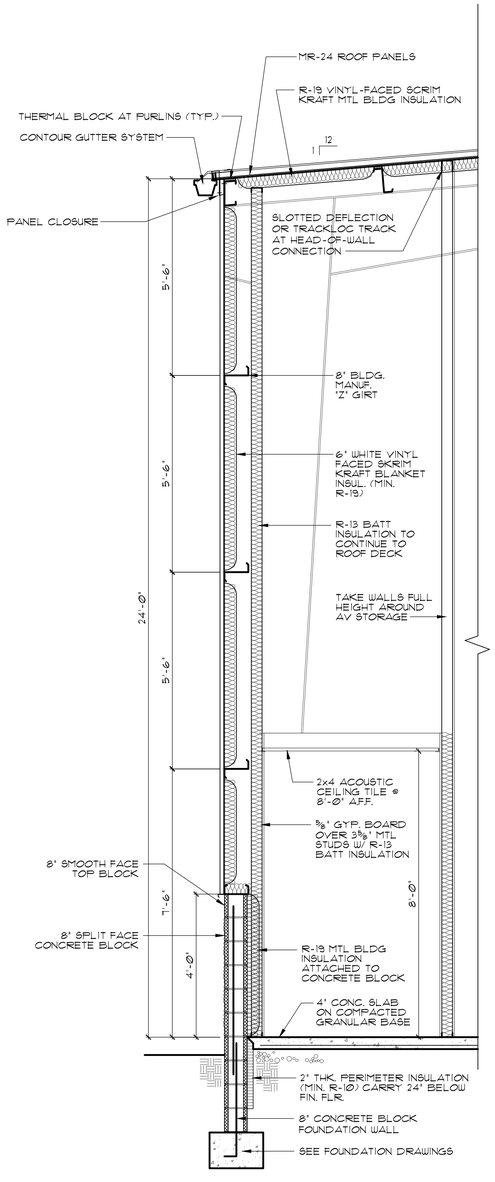
A/A6 **WALL SECTION @ OVERHEAD DOOR**
SCALE: 1/2" = 1'-0"



B/A6 **WALL SECTION**
SCALE: 1/2" = 1'-0"



C/A6 **WALL SECTION**
SCALE: 1/2" = 1'-0"



D/A6 **WALL SECTION**
SCALE: 1/2" = 1'-0"

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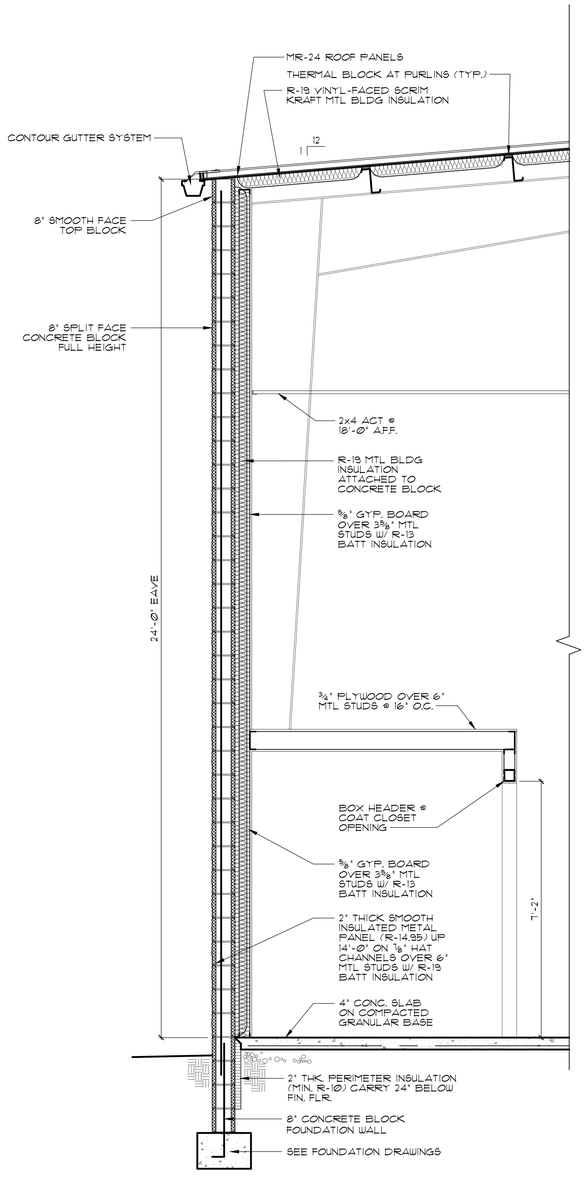
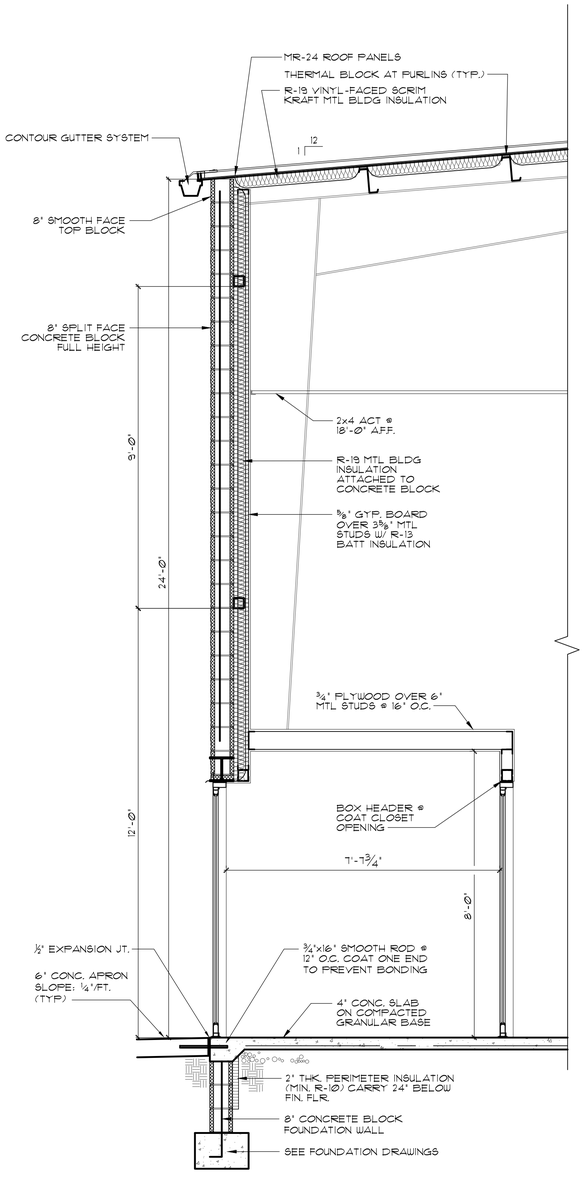
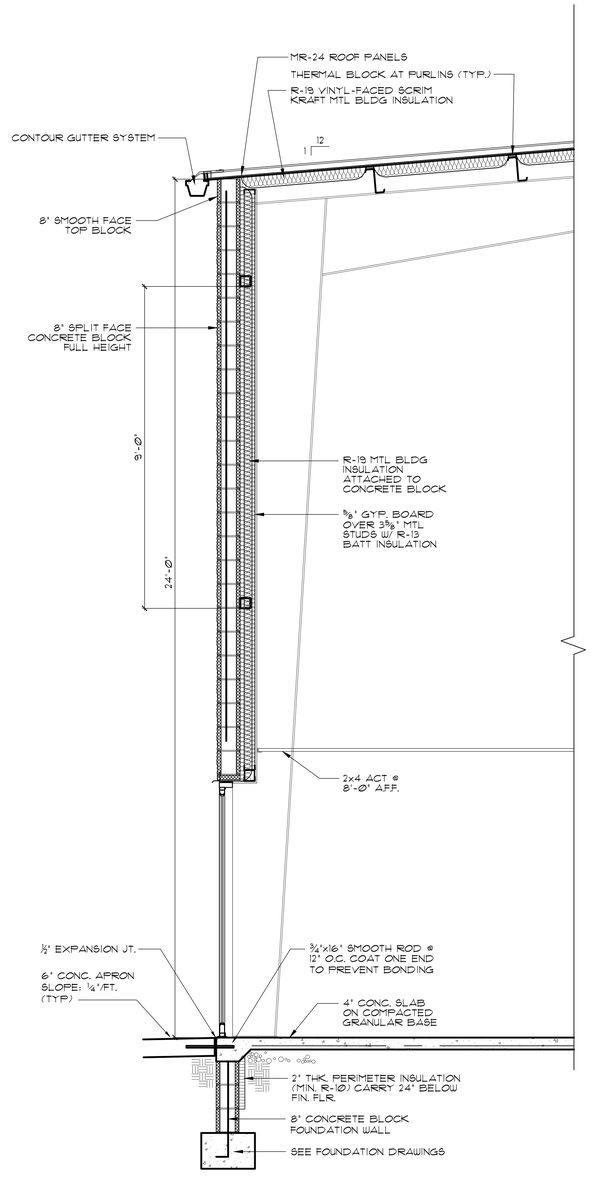


A / A7 **WALL SECTION**
SCALE: 1/2" = 1'-Ø"



B / A7 **WALL SECTION @ VESTIBULE**
SCALE: 1/2" = 1'-Ø"



C / A7 **WALL SECTION @ FRONT ENTRY**
SCALE: 1/2" = 1'-Ø"

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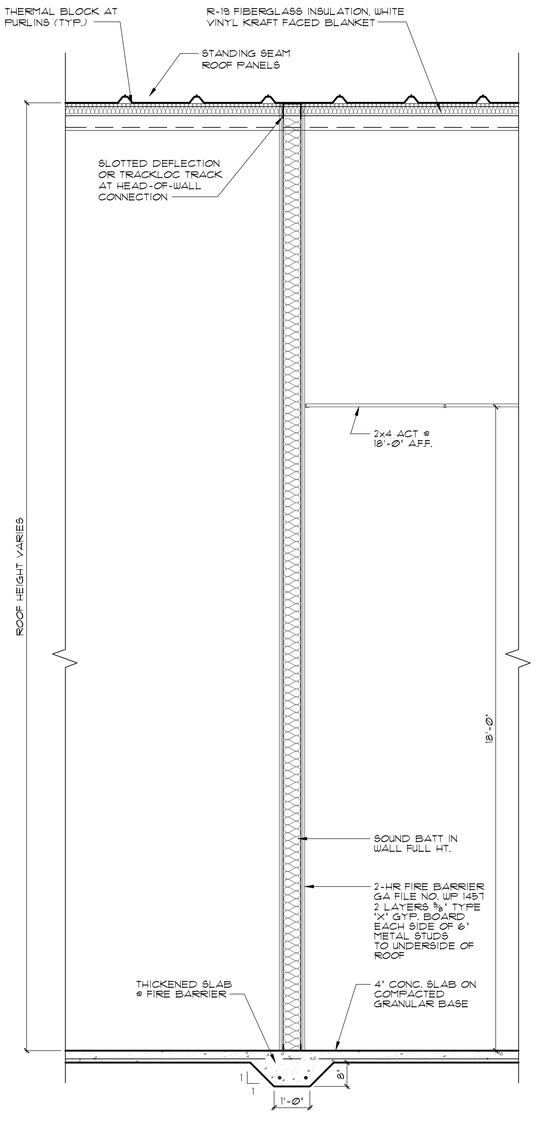
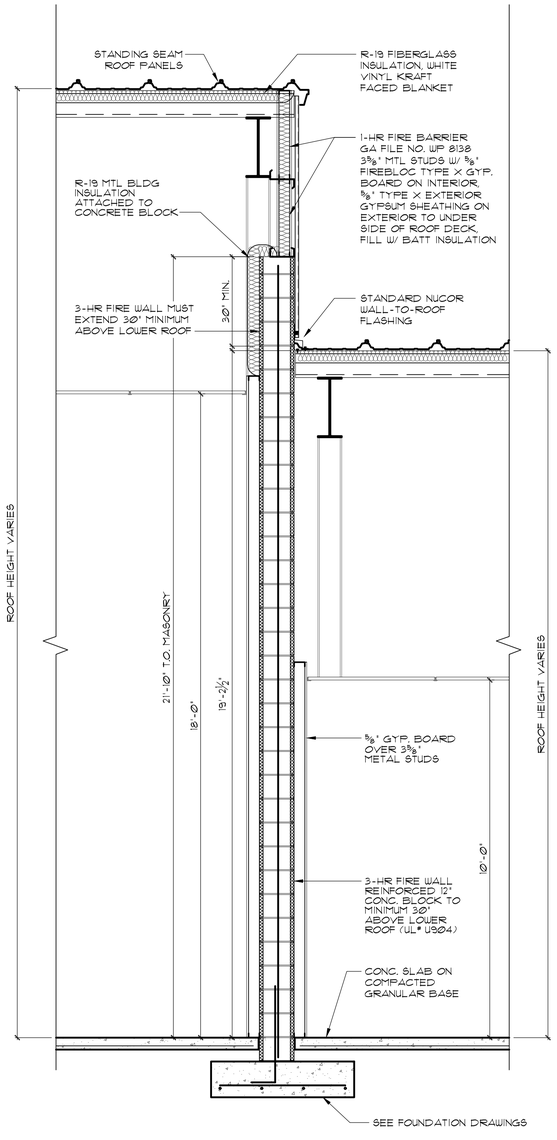
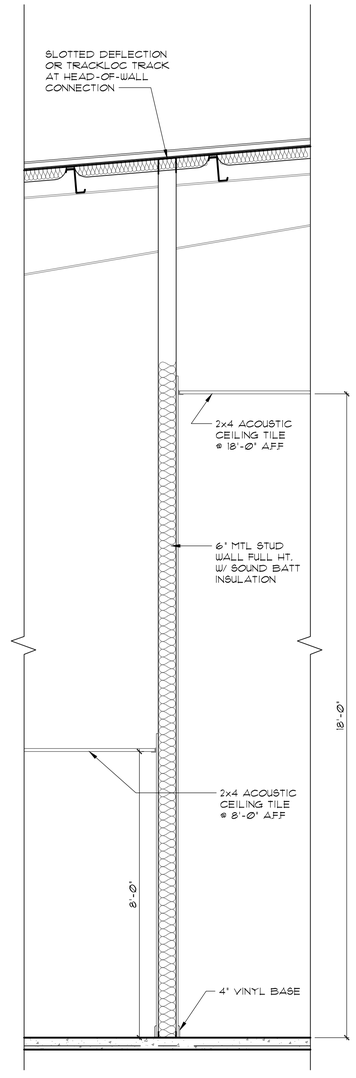


A/A8 **WALL SECTION (2-HR FIRE BARRIER)**
SCALE: 1/2" = 1'-0"



B/A8 **WALL SECTION (3-HR FIRE WALL)**
SCALE: 1/2" = 1'-0"



C/A8 **WALL SECTION**
SCALE: 1/2" = 1'-0"

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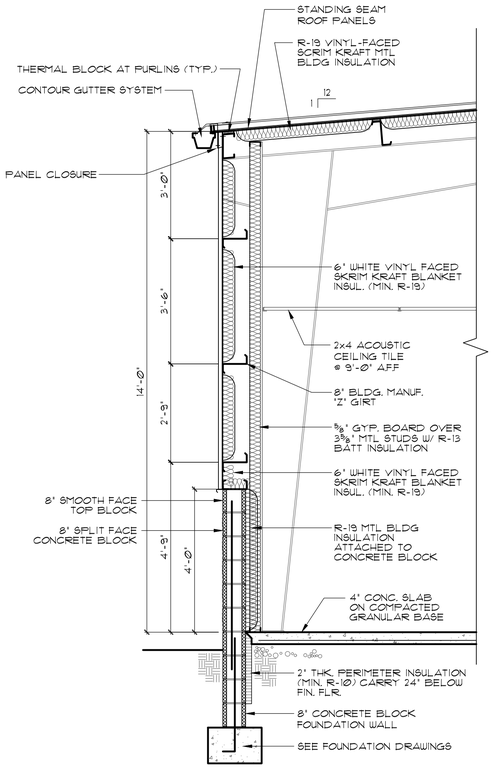
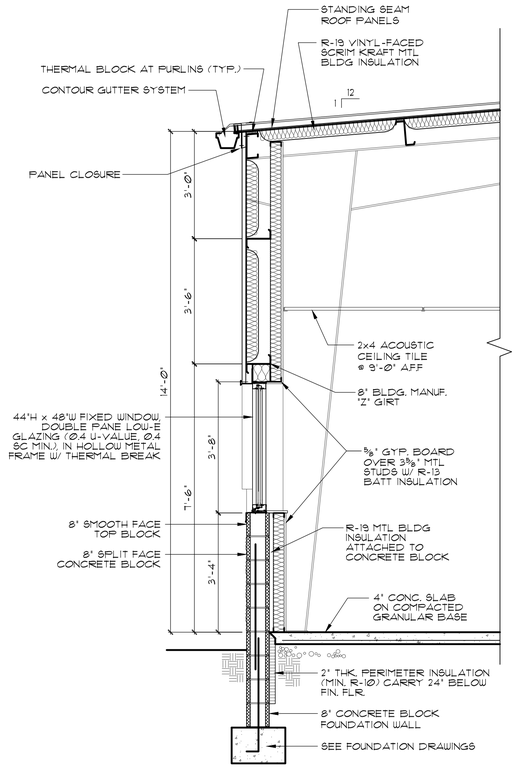
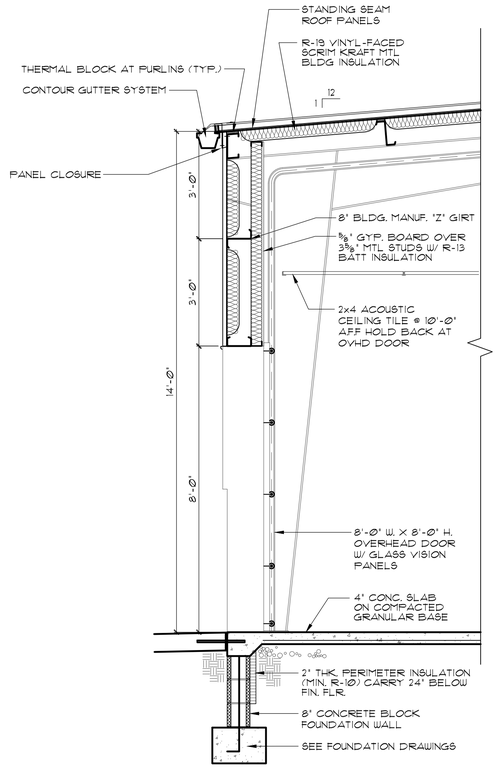


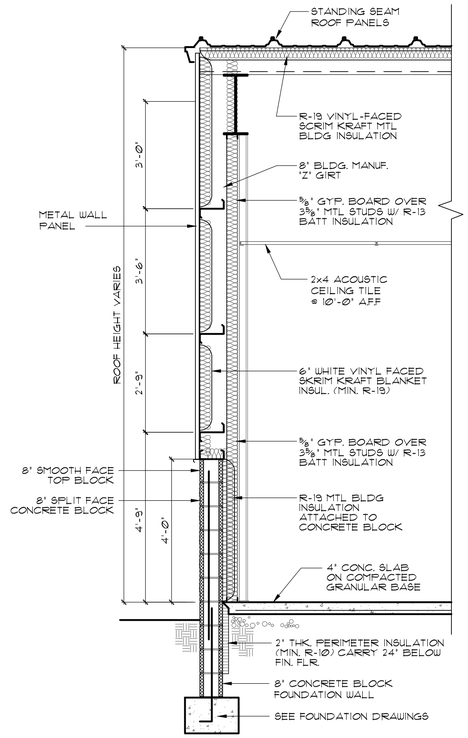
A9 **WALL SECTION**
SCALE: 1/2" = 1'-0"



A9 **WALL SECTION**
SCALE: 1/2" = 1'-0"



A9 **WALL SECTION @ OVERHEAD DOOR**
SCALE: 1/2" = 1'-0"



A9 **WALL SECTION**
SCALE: 1/2" = 1'-0"

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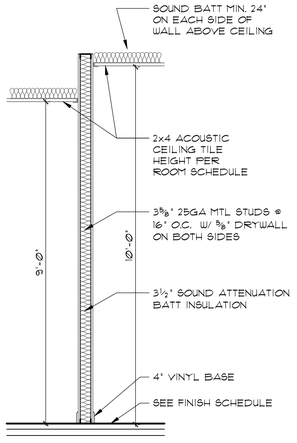
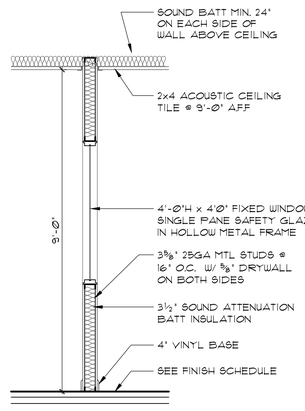
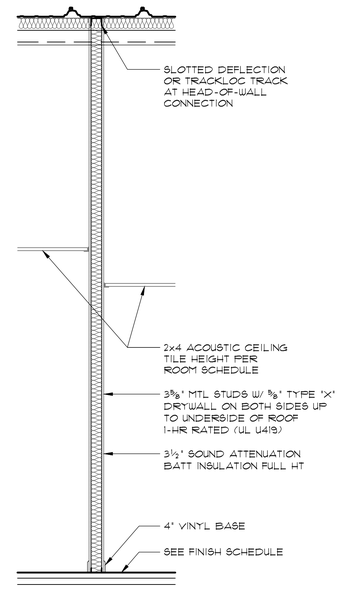


A A10 **WALL SECTION (TYP.)**
SCALE: 1/2" = 1'-0"



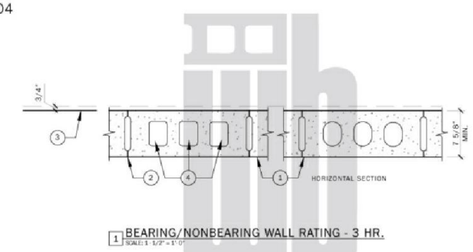
B A10 **WALL SECTION**
SCALE: 1/2" = 1'-0"



C A10 **WALL SECTION (1-HR RATED CORRIDOR)**
SCALE: 1/2" = 1'-0"

UL FIRE RATED

Design No. U904



1 BEARING/NONBEARING WALL RATING - 3 HR.
SCALE: 1 1/2" = 1'-0"

1. CONCRETE BLOCKS* - Various designs. Classification C-3 (3 hr).
2. MORTAR - Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
3. PORTLAND CEMENT STUCCO OR GYPSUM PLASTER - If used, add 1/2 hr. to Classification.Attached to concrete blocks (Item 1)
4. LOOSE MASONRY FILL - If all core spaces are filled with loose dry expanded slag, expanded clay or shale (rotary kiln process), water repellant, vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 1 hr to Classification.
5. FOAMED PLASTIC* - (Optional - not shown) 1-1/2 in thick max, 4 ft wide sheathing attached to concrete blocks (Item 1). Celotex Corp. - Type Thermax

*Bearing the UL Classification Marking

GA FILE NO. WP 8138	PROPRIETARY	1 HOUR FIRE	

GYPSUM WALLBOARD, GYPSUM SHEATHING, STEEL STUDS

Fire Design:
EXTERIOR SIDE: **One** layer 5/8" proprietary type X gypsum sheathing or glass mat gypsum substrate (sheathing) applied parallel to 3-1/2", 33 mil steel studs 24" o.c. with 1" Type S-12 screws 8" o.c. at edges and 12" o.c. at intermediate studs.
INTERIOR SIDE: **One** layer 5/8" proprietary type X gypsum wallboard applied parallel or at right angles to studs with 1" Type S-12 screws 8" o.c. at edges and 12" o.c. at intermediate studs.
Vertical joints centered over studs and staggered one stud cavity on opposite sides. **(LOAD-BEARING)**

PROPRIETARY GYPSUM PANEL PRODUCTS
American Gypsum Company LLC
– 5/8" FireBloc® Type X Gypsum Board
– 5/8" Type X Exterior Gypsum Sheathing

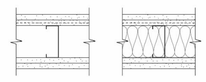
Thickness: 4-3/4" (Fire)
Approx. Weight: 5 psf (Fire)
Fire Test: UL R14196, 11NK04002, 3-3-11, UL Design U425

GA FILE NO. WP 1457	PROPRIETARY	2 HOUR FIRE	60 to 64 STC SOUND

FACTORY-LAMINATED GYPSUM PANELS, GYPSUM BOARD, STEEL STUDS

Fire Design:
Base layer 5/8" proprietary factory-laminated gypsum panel product applied parallel to ONE SIDE of 3-5/8", 18 mil steel studs 24" o.c. with 1" Type S screws 24" o.c. **Face** layer 5/8" proprietary type X gypsum board applied parallel to studs with 1-5/8" Type S screws 12" o.c.
Face layer vertical joint offset one stud cavity from **base** layer vertical joints.
OPPOSITE SIDE: **Base** layer 5/8" proprietary type X gypsum board applied parallel to studs with 1" Type S screws 24" o.c. **Face** layer 5/8" proprietary type X gypsum board applied parallel to studs with 1-5/8" Type S screws 12" o.c.
Face layer vertical joints offset one stud cavity from **base** layer vertical joints. **(NLB)**
Sound Design:
Sound tested with 3-1/2" glass fiber insulation friction fit in stud cavity.

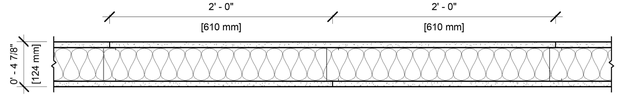
PROPRIETARY GYPSUM PANEL PRODUCTS
National Gypsum Company
– 5/8" Gold Bond® Fire-Shield® Gypsum Board
– 5/8" Gold Bond® SoundBreak XP Wall® Board



Thickness: 6" (Fire and Sound)
Approx. Weight: 10 psf (Fire)
10.2 psf (Sound)
Fire Test: UL R4784, 09CA13876, 8-18-08 (rev. 5-13-09), UL R3501, 09CA32444, 9-28-09, UL Design V484
Sound Test: RAL TL07-168, 6-25-07

UL DESIGN NO. U419

FIRE RATING:	1 Hour
STC:	48
SOUND TEST:	USG-180617
SYSTEM THICKNESS:	4 7/8"



ASSEMBLY OPTIONS:

GYPSUM BOARD:	ONE LAYER 5/8" THICK GYPSUM BOARD (UL TYPE ULIX™)
STEEL STUDS:	3-5/8" STEEL STUDS, EQ25 (0.019"), SPACED 24" O.C.
INSULATION:	3-1/2" THICK GLASS FIBER BATT INSULATION
GYPSUM BOARD:	ONE LAYER 5/8" THICK GYPSUM BOARD (UL TYPE ULIX™)

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A10

DOOR SCHEDULE

DOOR NO.	DOOR TYPE	DOOR SIZE	DOOR MATL.	FRAME MATL.	FIRE RATING	REMARKS	HARDWARE
100a	A	(2) 3'-0" x 7'-0" x 1 3/4"	ALUM.	ALUM.	0 HR	1	1,3,5,9,11
100b	A	(2) 3'-0" x 7'-0" x 1 3/4"	ALUM.	ALUM.	0 HR	1	1,3,5,9,11
100c	A	(2) 3'-0" x 7'-0" x 1 3/4"	ALUM.	ALUM.	0 HR	-	1,3,7,11
100d	A	(2) 3'-0" x 7'-0" x 1 3/4"	ALUM.	ALUM.	0 HR	-	1,3,7,11
101a	B	(2) 3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	90 MIN	-	1,2,3,7,10,11
101b	B	(2) 3'-0" x 7'-0" x 1 3/4"	HM	HM	3 HR	1	1,2,3,7,10,11
101c	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	90 MIN	-	1,2,3,4,7,11
101d	A	3'-0" x 7'-0" x 1 3/4"	ALUM.	ALUM.	0 HR	1	1,3,5,9,11
101e	B	(2) 3'-0" x 7'-0" x 1 3/4"	HM	HM	3 HR	1	1,2,3,7,10,11
102a	B	(2) 3'-0" x 7'-0" x 1 3/4"	INSUL. MTL	HM	0 HR	-	1,3,5,9,10,11
102b	B	(2) 3'-0" x 7'-0" x 1 3/4"	INSUL. MTL	HM	0 HR	-	1,3,5,9,10,11
103	B	(2) 3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	90 MIN	-	1,2,3,4,5,10
104	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,6
105	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,6
106a	B	3'-0" x 7'-0" x 1 3/4"	INSUL. MTL	HM	0 HR	-	1,3,5,9,11
106b	B	3'-0" x 7'-0" x 1 3/4"	INSUL. MTL	HM	0 HR	-	1,3,5,9,11
107	B	(2) 3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	20 MIN	-	1,2,3,7,10
108	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,7
109	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,7
110	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,6
111	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,7
112	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,7
113a	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,7
113b	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,7
114a	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	20 MIN	-	1,2,3,4,5
114b	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,5
115a	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	20 MIN	-	1,2,3,4,5
115b	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,5
116	B	(2) 3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	20 MIN	-	1,2,3,7,10
117	B	(2) 3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,3,7,10
118	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,7
119	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,7
120	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,6
121	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	20 MIN	-	1,2,3,4,5
122	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	20 MIN	-	1,2,3,4,7
123	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	20 MIN	-	1,2,3,4,7
124	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	20 MIN	-	1,2,3,4,8
125a	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	20 MIN	-	1,2,3,4,5
125b	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,5
125c	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,5
125d	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,5
126	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	20 MIN	-	1,2,3,4,7
127	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	20 MIN	-	1,2,3,4,7
128a	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	20 MIN	-	1,2,3,4,7
128b	B	3'-0" x 7'-0" x 1 3/4"	INSUL. MTL	HM	0 HR	-	1,3,5,9,11
129	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,5
130	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,6
131	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,6
132	B	3'-0" x 7'-0" x 1 3/4"	SC WOOD	HM	0 HR	-	1,2,4,5
OH1	C	10'-0" x 12'-0" H	INSUL. MTL	HM	0 HR	-	-
OH2	D	8'-0" W x 8'-0" H	MTL/GLASS	HM	0 HR	-	-

DOOR TYPES

STOREFRONT

Ⓐ

SC WOOD OR HM

Ⓑ

OVERHEAD INSULATED

Ⓒ

OVERHEAD W/ GLASS

Ⓓ

DOOR HARDWARE:

1. (3) HINGES EACH LEAF
2. (3) SILENCERS
3. CLOSER
4. WALL MOUNTED DOOR STOP
5. ENTRY/OFFICE LOCKSET
6. PRIVACY LOCKSET
7. PASSAGE LATCHSET
8. STOREROOM LOCKSET
9. WEATHERSTRIPPING/THRESHOLD
10. HEAD/FOOT BOLT INACTIVE LEAF
11. RIM DEVICE/PANIC BAR

DOOR REMARKS:

1. 4" FRAME AT HEAD

ADA REQUIREMENTS

ALL HARDWARE SHALL MEET ADA (ADAAG) REQUIREMENTS PER ICC AND ANSI 117.1. DOOR OPENING DEVICES SHALL BE LEVER TYPE.

HARDWARE NOTES:

1. HARDWARE FOR ALL EGRESS DOORS SHALL MAINTAIN THE DOORS READILY OPENABLE FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF KEY OR SPECIAL KNOWLEDGE OR EFFORT. DRAW BOLTS, HOOKS, AND OTHER SIMILAR DEVICES ARE PROHIBITED ON ALL EGRESS DOORS.

2. SAFETY GLAZING SHALL BE PROVIDED AT THE FOLLOWING:
   A. GLAZING IN ALL INGRESS AND EGRESS DOORS.
   B. GLAZING, OPERABLE OR INOPERABLE, ADJACENT TO A DOOR AND WITHIN THE SAME WALL PLANE AS THE DOOR WHOSE NEAREST VERTICAL EDGE IS WITHIN A 24 INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE.

3. PROVIDE HARDWARE SCHEDULE FOR APPROVAL, AND:

4. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOOR SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED AT LEAST 34 INCHES ABOVE FINISHED FLOOR AND NO HIGHER THAN 48 INCHES ABOVE FINISHED FLOOR.

5. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3 INCHES FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.

6. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS:
   A. DOORS WITHOUT CLOSERS: 5 POUND FORCE
   B. OTHER DOORS: 15 POUND FORCE

7. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/4 INCH IN HEIGHT FOR EXTERIOR SLIDING DOORS OR 1/2 INCH FOR OTHER TYPES OF DOORS. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR MATERIAL	BASE MATERIAL	WALLS MATERIAL	CEILING MATERIAL	CEILING HGT.	REMARKS
100	VESTIBULE	POLISHED CONCRETE	4" VINYL	DW - PAINT	DRYWALL	8'-0"	PROVIDE ALTERNATE FOR RECESSED WALK OFF MAT
101	LOBBY	POLISHED CONCRETE	4" VINYL	DW - PAINT	2x4 ACT	18'-0"	
102	SANCTUARY	POLISHED CONCRETE	4" VINYL	DW - PAINT	EXPOSED	-	PAINT EXPOSED OVERHEAD STRUCTURE BLACK
103	AV STORAGE	SEALED CONCRETE	4" VINYL	DW - PAINT	EXPOSED	-	
104	WOMEN'S ROOM	LVT	6" CT	CT/DW	2x4 ACT	8'-0"	
105	MEN'S ROOM	LVT	6" CT	CT/DW	2x4 ACT	8'-0"	
106	HALL	CARPET SQUARES	4" VINYL	DW - PAINT	2x4 ACT	8'-0"	
107	CHECK-IN AREA	CARPET SQUARES	4" VINYL	DW - PAINT	2x4 ACT	9'-0"	
108	CRAWLER ROOM	CARPET SQUARES	4" VINYL	DW - PAINT	2x4 ACT	9'-0"	
109	NURSERY	CARPET SQUARES	4" VINYL	DW - PAINT	2x4 ACT	9'-0"	
110	NURSING ROOM	CARPET SQUARES	4" VINYL	DW - PAINT	2x4 ACT	8'-0"	
111	2-3 YR. OLD ROOM	CARPET SQUARES	4" VINYL	DW - PAINT	2x4 ACT	9'-0"	
112	TODDLER ROOM	CARPET SQUARES	4" VINYL	DW - PAINT	2x4 ACT	9'-0"	
113	RESTROOM	LVT	6" CT	CT/DW	2x4 ACT	8'-0"	
114	BREAKOUT ROOM	CARPET SQUARES	4" VINYL	DW - PAINT	2x4 ACT	9'-0"	
115	BREAKOUT ROOM	CARPET SQUARES	4" VINYL	DW - PAINT	2x4 ACT	9'-0"	
116	CHECK-IN AREA	CARPET SQUARES	4" VINYL	DW - PAINT	2x4 ACT	9'-0"	
117	LARGE KIDS' ROOM	CARPET SQUARES	4" VINYL	DW - PAINT	2x4 ACT	10'-0"	
118	BREAKOUT ROOM	CARPET SQUARES	4" VINYL	DW - PAINT	2x4 ACT	9'-0"	
119	4-5 YR. OLD ROOM	CARPET SQUARES	4" VINYL	DW - PAINT	2x4 ACT	9'-0"	
120	RESTROOM	LVT	6" CT	CT/DW	2x4 ACT	8'-0"	
121	OFFICE	CARPET SQUARES	4" VINYL	DW - PAINT	2x4 ACT	9'-0"	
122	WOMEN'S ROOM	LVT	6" CT	CT/DW	2x4 ACT	8'-0"	
123	MEN'S ROOM	LVT	6" CT	CT/DW	2x4 ACT	8'-0"	
124	MECHANICAL ROOM	SEALED CONCRETE	4" VINYL	DW - PAINT	EXPOSED	-	
125	OFFICE SUITE	CARPET SQUARES	4" VINYL	DW - PAINT	2x4 ACT	9'-0"	
126	PREP AREA	LVT	4" VINYL	DW - PAINT	2x4 ACT	9'-0"	
127	RESOURCE CENTER	LVT	4" VINYL	DW - PAINT	2x4 ACT	9'-0"	
128	678 ROOM	LVT	4" VINYL	DW - PAINT	2x4 ACT	10'-0"	
129	STORAGE	CARPET SQUARES	4" VINYL	DW - PAINT	2x4 ACT	8'-0"	
130	MEN'S ROOM	LVT	6" CT	CT/DW	2x4 ACT	8'-0"	
131	WOMEN'S ROOM	LVT	6" CT	CT/DW	2x4 ACT	8'-0"	
132	CLOSET	LVT	6" CT	CT/DW	2x4 ACT	8'-0"	

NOTE: INSTALLATION OF INTERIOR FINISHES SHALL HAVE A MINIMUM FLAME SPREAD CLASSIFICATION AS REQUIRED BY OBC TABLE 803.5.

STATE OF OHIO
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REGISTERED ARCHITECT

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19031
09-21-22

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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 ENSURE 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. 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.

4. 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.

5. THROUGHOUT THESE PLANS, THE TERM "PROVIDE" IS DEFINED AS "SUPPLY AND INSTALL".

6. 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.

7. 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.

8. CODE INFORMATION

- GOVERNING CODE:	2017 OHIO BUILDING CODE
- BUILDING RISK CATEGORY:	CATEGORY II
FLOOR LIVE LOADS (WITH ALLOWABLE REDUCTIONS WERE APPLICABLE)	
- MANUFACTURING	250 PSF
ROOF LIVE LOADS: REFER TO P.E. MTL BLDG PLANS	
SNOW LOADS: REFER TO P.E. MTL BLDG PLANS	
WIND LOADS: REFER TO P.E. MTL BLDG PLANS	
SEISMIC LOADS: REFER TO P.E. MTL BLDG PLANS	
SPECIAL LOADS:	
- INTERIOR WALLS & PARTITIONS	5 PSF HORIZONTAL
- HANDRAIL LOADS (ANY DIRECTION)	50 PLF/200# CONC.
- RETAINING WALLS	50 PCF
GEOTECHNICAL:	
- GEOTECHNICAL ENGINEER:	GCI
- REFERENCE REPORT I.D. OR NUMBER:	PROJECT NO.: 21-G-23503
- ALLOWABLE DESIGN BEARING PRESSURE:	3,000 PSF
- FOUNDATION TYPE:	SHALLOW SPREAD FOOTING

REINFORCED CONCRETE

1. SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI-301-16, "SPECIFICATIONS FOR STRUCTURAL CONCRETE".

2. MATERIALS:
   A. STRUCTURAL CONCRETE:

MIX USAGE	f'c (PSI)	MAX w/cm	AIR CONTENT
LEAN CONCRETE	1,500	---	---
FOOTINGS & INTERIOR COLUMN PIERS	3,500	0.55	---
INTERIOR SLABS ON GRADE	3,500	0.50	---
INTERIOR SLABS ON GRADE WHICH RECEIVE MOISTURE-SENSITIVE FLOOR COVERINGS	4,000	0.45	---
FOUNDATION WALLS	4,500	0.45	5%-7%
EXTERIOR UNREINFORCED SLABS ON GRADE & EXTERIOR CONCRETE NOT SUBJECT TO DEICERS	4,000	0.45	5%-7%
EXTERIOR REINFORCED SITE CONCRETE SUBJECT TO DEICERS	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 MIXES 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 MIXTURE USAGE REQUIRED FOR THE PROJECT. CONCRETE PROPORTIONS ARE TO BE ESTABLISHED ON THE BASIS OF PREVIOUS FIELD EXPERIENCE OR TRIAL MIXTURES.
   B. SUBMIT PLACING 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 2 TONS 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 (PER CURTAIN) 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.

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. 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 AREAS TO RECEIVE QUARRY TILE OR CERAMIC TILE - FLOATED FINISH.
    D. EXTERIOR SLABS - BROOM FINISH.

11. 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.

12. 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 = 2,500 PSI
   B. MORTAR: ASTM 270 TYPE S, MINIMUM COMPRESSIVE STRENGTH = 1,800 PSI
   C. BOND BEAM AND CORE FILL: ASTM C476, COARSE TYPE WITH f'c = 2,500 PSI MIN.
   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 RODS.
   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. FILL ALL BEARING POCKETS AROUND BEAM AND JOIST SEATS WITH SOLID CMU.
   G. 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, PILASTERS, THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR 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 5 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 RODS: ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE
   F. ELECTRODES: SERIES E70
   G. RECTANGULAR HSS: ASTM A500, GRADE C, FY = 50 KSI
   H. ROUND HSS: ASTM A500, GRADE C, FY = 46 KSI
   I. STRUCTURAL PIPES: ASTM A53, GRADE B, FY = 35 KSI
   J. SHEAR STUDS: ASTM A108, FY = 60 KSI
   K. 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.

5. COATINGS:
   A. DO NOT PAINT STEEL OR ANCHOR RODS 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 RODS, 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. GROUT UNDER BEARING PLATES TO BE NON-METALLIC, NON-SHRINKING TYPE.
   C. 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.
   D. 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.
   E. PROVIDE HEAVY PLATE WASHERS AT ALL ANCHOR RODS.
   F. FINISH ENDS OF ALL COLUMNS, STIFFENERS AND ALL OTHER MEMBERS IN DIRECT BEARING.
   G. PROVIDE BOLT HOLES FOR WOOD NAILERS AND JOISTS BOLTED TO BEAMS.
   H. PROVIDE ATTACHMENT FOR JOINING EXTENDED JOIST BOTTOM CHORDS.
   I. 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.
   J. PROVIDE MISCELLANEOUS ANGLES OR CHANNELS TO SUPPORT DECK EDGES AROUND COLUMNS THAT EXTEND THROUGH THE DECK.
   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 1 TON 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.

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 6'-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.

POST-INSTALLED ANCHOR SYSTEMS

1. GENERAL:
   A. LISTED ANCHOR PRODUCTS PROVIDED BELOW ARE NOT TO BE USED AS INTERCHANGEABLE PRODUCTS. EACH ANCHOR HAS DEFINED CAPACITIES BASED UPON TESTED PERFORMANCE WITH APPLICABLE SAFETY FACTORS AND WILL VARY ACROSS MANUFACTURERS. TYPES OF ANCHORS INDICATED THROUGHOUT THE DESIGN DOCUMENTS ARE DETAILED FOR THEIR SPECIFIC PURPOSE AND CAPACITY. SUBSTITUTION OF ANCHORS FROM THOSE SPECIFIED ARE ONLY ALLOWED AFTER ENGINEER REVIEW AND APPROVAL OR AMENDMENT FROM WRITTEN REQUEST BY THE CONTRACTOR.
   B. PROVIDE ANCHORAGE MATCHING MANUFACTURER, TYPE, DIAMETER, EMBEDMENT, AND BASE MATERIAL AS INDICATED IN THE DOCUMENTS.
   C. ALL POST-INSTALLED ANCHORS TO BE HAMMER DRILLED. FOLLOW ALL HOLE CLEANING AND INSTALLATION INSTRUCTIONS AS STIPULATED BY THE ANCHOR MANUFACTURER. FOLLOW ALL OSHA GUIDELINES FOR CONCRETE DRILLING AS IT PERTAINS TO SILICA DUST.
   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 EXPANSION ANCHORAGE SYSTEMS:
      1. DEWALT POWER STUD +SDI WEDGE EXPANSION ANCHOR
      2. HILTI KWIK BOLT 3 EXPANSION ANCHOR
      3. HILTI KWIK BOLT TZ EXPANSION ANCHOR
      4. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR
   B. ACCEPTABLE MECHANICAL SLEEVE ANCHORAGE SYSTEMS: (MAY NOT BE USED TO SECURE MAIN BUILDING FRAME COMPONENTS)
      1. DEWALT LOK-BOLT AS SLEEVE ANCHOR
      2. HILTI HLC SLEEVE ANCHOR
      3. SIMPSON SLEEVE-ALL SLEEVE ANCHOR
   C. ACCEPTABLE MECHANICAL SCREW ANCHORAGE SYSTEMS:
      1. DEWALT SCREW-BOLT+
      2. HILTI KWIK HUS-EZ SCREW ANCHOR
      3. SIMPSON TITEN HD SCREW ANCHOR
   D. ACCEPTABLE ADHESIVE ANCHORAGE SYSTEMS:
      1. DEWALT AC200+ ADHESIVE FOR REINFORCING BAR
      2. DEWALT PUREEO+ 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. HILTI HIT-RE 500 ADHESIVE FOR THREADED ROD AND REINFORCING BAR.
      6. HILTI HIT-RE 100 ADHESIVE FOR THREADED ROD AND REINFORCING BAR.
      7. 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 EXPANSION ANCHORAGE SYSTEMS:
      1. DEWALT POWER STUD +SDI WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
      2. HILTI KWIK BOLT 3 EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
      3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
   C. ACCEPTABLE MECHANICAL SLEEVE ANCHORAGE SYSTEMS: (MAY NOT BE USED TO SECURE MAIN BUILDING FRAME COMPONENTS)
      1. DEWALT LOK-BOLT AS SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY, AND SOLID BRICK MASONRY
      2. HILTI HLC SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY, AND SOLID BRICK MASONRY
      3. SIMPSON SLEEVE-ALL SLEEVE ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
   D. ACCEPTABLE MECHANICAL SCREW ANCHORAGE SYSTEMS:
      1. HILTI KWIK HUS-EZ SCREW ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
      2. DEWALT SCREW-BOLT+ SCREW ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY AND BRICK MASONRY
      3. SIMPSON TITEN HD SCREW ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY
   E. 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.

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JARREN D. COOK
E-63292
REGISTERED
PROFESSIONAL ENGINEER

Jezerinac Geers
Structural Engineering

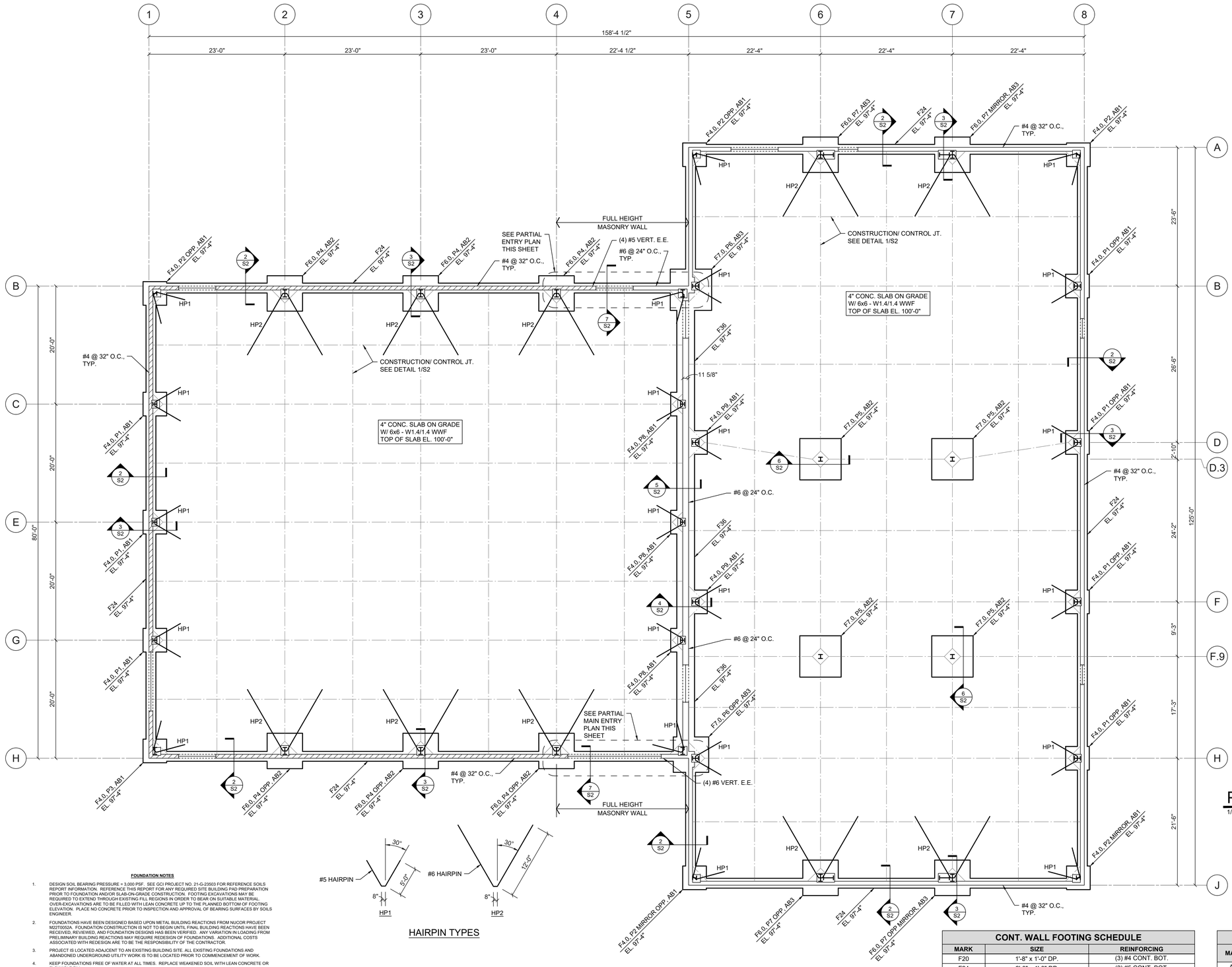
PROJECT #	22.09.099
DESIGNED BY	DDC
DRAWN BY	CAD
CHECKED BY	DDC

DOCUMENT STATUS
- ☐ PROGRESS
- ☐ BIDDING
- ☒ PERMIT
- ☐ CONSTRUCTION

22.09.099
05/27/2022

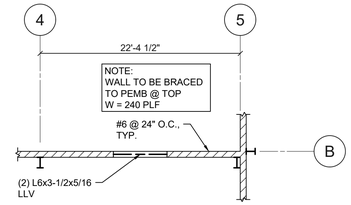
FOUNDATION PLAN

S0



PARTIAL PLAN - ENTRY

1/8" = 1'-0"



PARTIAL PLAN - MAIN ENTRY

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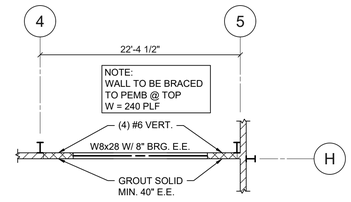

HAIRPIN TYPES

FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION NOTES

1. DESIGN SOIL BEARING PRESSURE = 3,000 PSF. SEE GCI PROJECT NO. 21-G-23503 FOR REFERENCE SOILS REPORT INFORMATION. REFERENCE THIS REPORT FOR ANY REQUIRED SITE BUILDING PAD PREPARATION 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 TO THE PLANNED BOTTOM OF FOOTING ELEVATION. PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.
2. FOUNDATIONS HAVE BEEN DESIGNED BASED UPON METAL BUILDING REACTIONS FROM NUCOR PROJECT M22T0052A. FOUNDATION CONSTRUCTION IS NOT TO BEGIN UNTIL FINAL BUILDING REACTIONS HAVE BEEN RECEIVED, REVIEWED, AND FOUNDATION DESIGNS HAS BEEN VERIFIED. ANY VARIATION IN LOADING FROM PRELIMINARY BUILDING REACTIONS MAY REQUIRE REDESIGN OF FOUNDATIONS. ADDITIONAL COSTS ASSOCIATED WITH REDESIGN ARE TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. PROJECT IS LOCATED ADJACENT TO AN EXISTING BUILDING SITE. ALL EXISTING FOUNDATIONS AND ABANDONED UNDERGROUND UTILITY WORK IS TO BE LOCATED PRIOR TO COMMENCEMENT OF WORK.
4. KEEP FOUNDATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.
5. BOTTOM OF FOOTINGS ARE TO BE AT LEAST 32-INCHES BELOW THE ADJACENT EXTERIOR FINISHED GRADE FOR FROST PROTECTION.
6. 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.
7. PROVIDE CORNER BARS AT ALL FOOTING AND CONCRETE WALL INTERSECTIONS.
8. EXISTING BUILDING STRUCTURE SHOWN IS BASED ON ORIGINAL BUILDING DRAWINGS AND/OR LIMITED FIELD INVESTIGATION. EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, ETC. ARE TO BE VERIFIED PRIOR TO CONSTRUCTION OR FABRICATION OF ANY MATERIAL BY CONTRACTOR PERFORMING WORK IN EXISTING AREAS. REPORT ANY DISCREPANCIES TO ARCHITECT IMMEDIATELY. DO NOT REMOVE EXISTING LOAD-BEARING WALLS, COLUMNS, OR ANY SUCH STRUCTURE WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT. WHERE NEW STRUCTURE IS TO BE INSTALLED, PROVIDE SHORING AND BRACING AS REQUIRED TO PROPERLY SUPPORT THE REMAINING STRUCTURE UNTIL THE NEW STRUCTURE IS IN PLACE AND PROPERLY BRACED.
9. SEE SHEET S0.00 FOR GENERAL STRUCTURAL INFORMATION.

CONT. WALL FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F20	1'-8" x 1'-0" DP.	(3) #4 CONT. BOT.
F24	2'-0" x 1'-0" DP.	(3) #5 CONT. BOT.
F36	3'-0" x 1'-0" DP.	#5 @ 12" O.C. E.W. TOP & BOT.

SPREAD FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F4.0	4'-0" x 4'-0" x 1'-0" DP.	(4) #5 TOP & BOT.
F6.0	6'-0" x 6'-0" x 1'-4" DP.	(6) #6 @ 12" O.C. TOP & BOT.

ANCHOR BOLT SCHEDULE		
MARK	SIZE	REMARKS
AB1	(4) 3/4" DIA. x 16" LG. + DBL. NUT	
AB2	(4) 3/4" DIA. x 20" LG. + DBL. NUT	
AB3	(8) 3/4" DIA. x 20" LG. + DBL. NUT	

ANCHOR ROD SCHEDULE NOTES:

1. SEE PEMB DRAWINGS FOR ANCHOR ROD ARRANGEMENT.
2. FOLLOW EMBEDMENT CRITERIA FOR ANCHORS THROUGHOUT STRUCTURAL DETAILS AND MAINTAIN CLEARANCES TO BOTTOM OF FOOTINGS FOR ANCHOR RODS TO BE SET DIRECTLY IN FOOTINGS.

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architects

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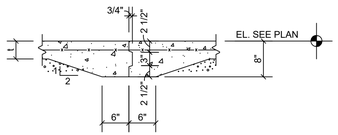
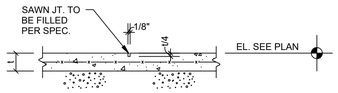
FOUNDATION PLAN

S1

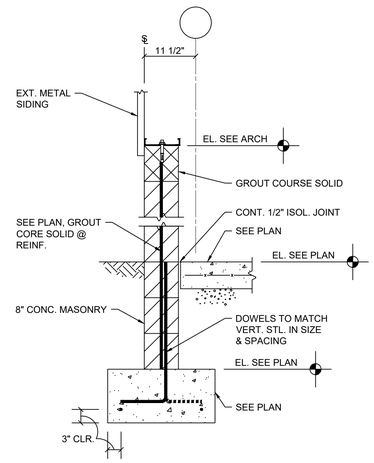


TYPICAL FLOOR CONSTRUCTION JOINT

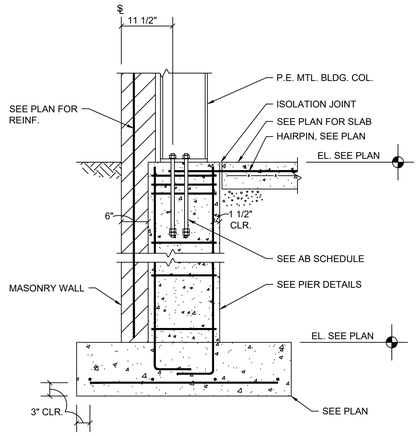


TYPICAL FLOOR CONTROL JOINT

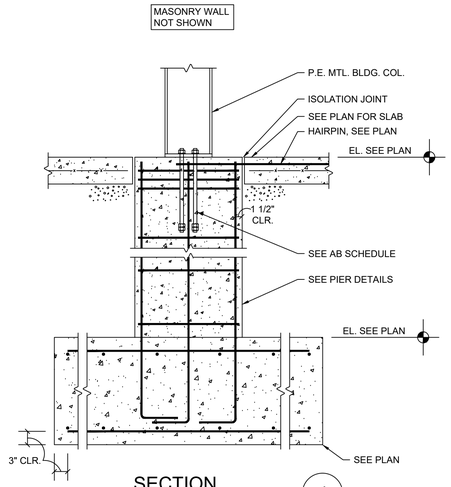
SECTION 1
3/4" = 1'-0"



SECTION 2
3/4" = 1'-0"



SECTION 3
3/4" = 1'-0"



SECTION 4
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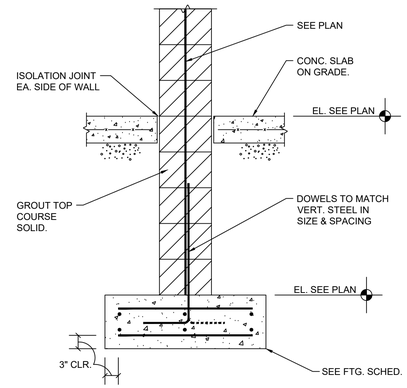

SECTION 5
3/4" = 1'-0"

SECTION 6
3/4" = 1'-0"

SECTION 7
3/4" = 1'-0"

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architects

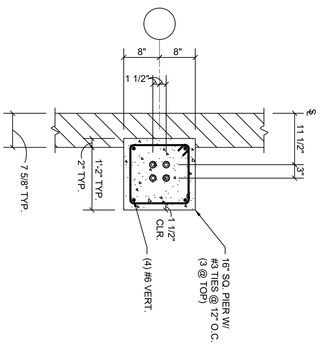
STATE OF OHIO
DARREN D. COOK
E-63292
REGISTERED
PROFESSIONAL ENGINEER

22.09.099
05/27/2022

FOUNDATION
DETAILS

S2

PIER P1



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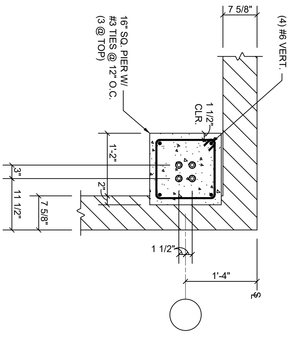

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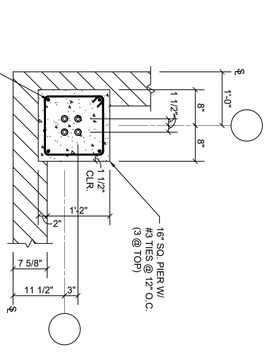

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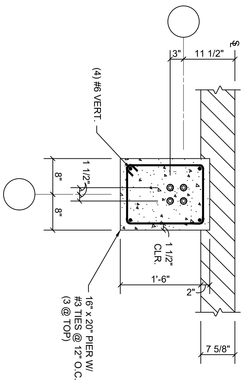

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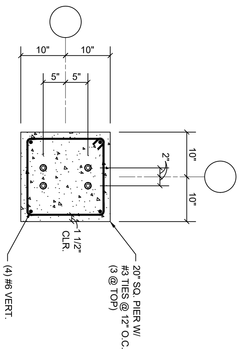

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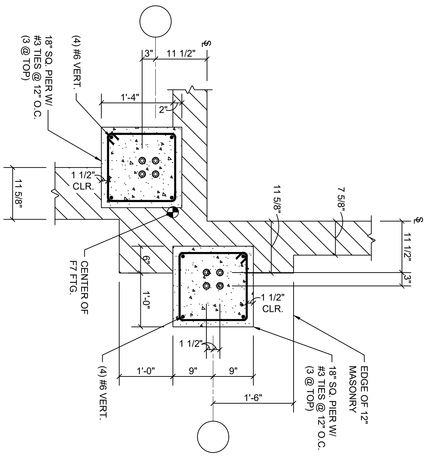

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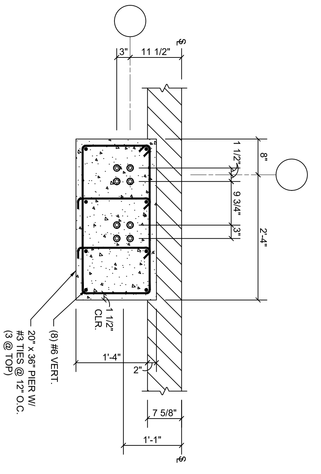

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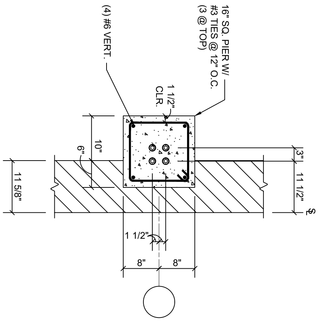

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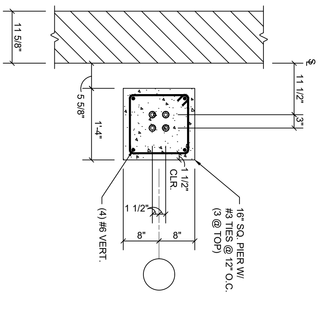

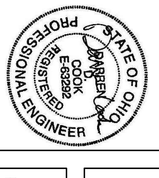

S3

22.09.099
05/27/2022
PIER DETAILS

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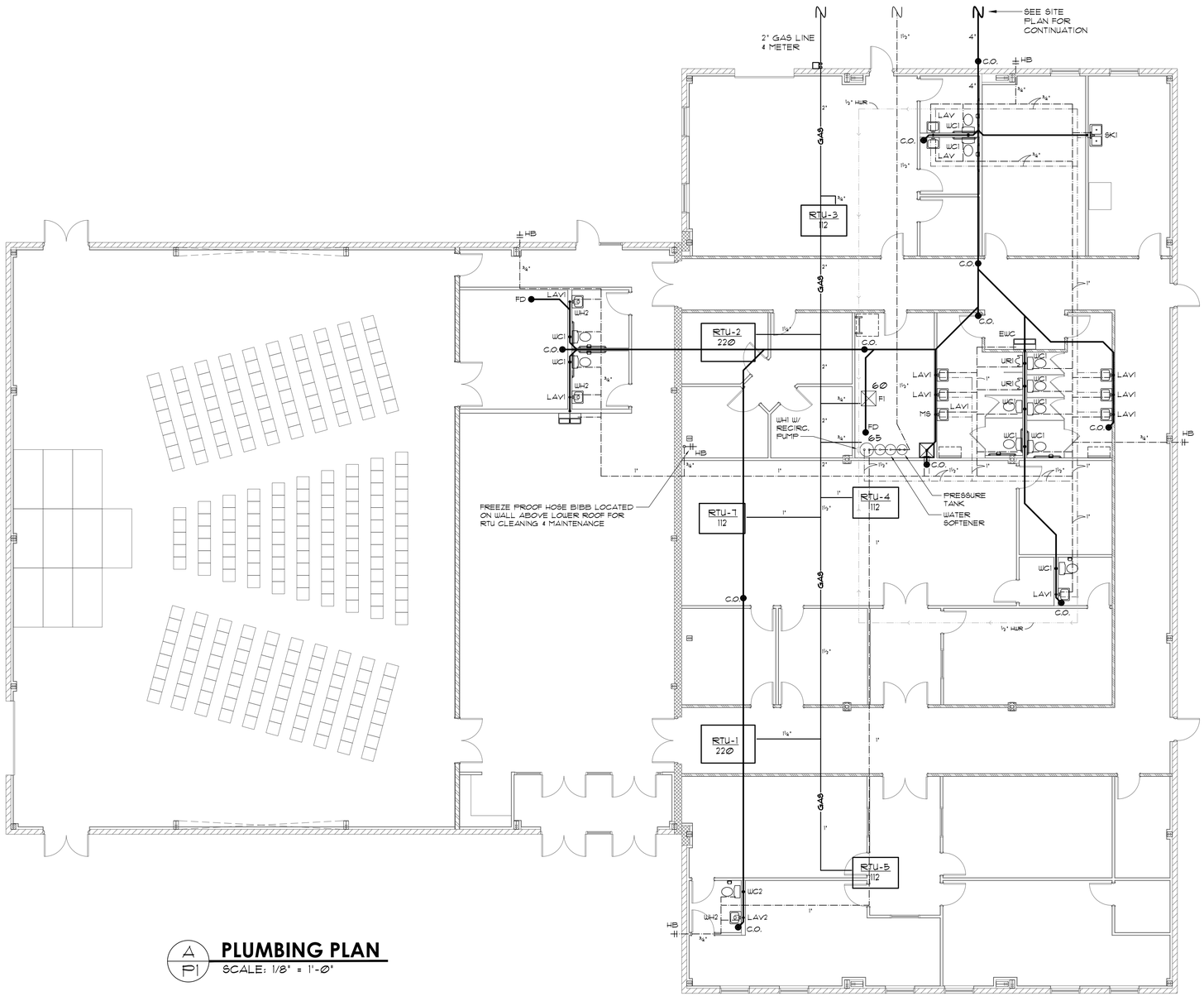
MOVEMENT CHURCH

2881 WALKER ROAD
HILLIARD, OH 43026



PLUMBING PLAN

SCALE: 1/8" = 1'-0"

PLUMBING FIXTURE SCHEDULE

DESIG	DESCRIPTION		SUPPLY		WASTE/VENT PIPING				FIXTURE		CONTROLS		SUPPLY STOP		TRAP		CARRIER		REMARKS
		MTG HGT	HW	CW	FIXTURE OUTLET	TRAP	DRAIN	VENT	MFR.	MODEL NO.	MFR.	MODEL NO.	MFR.	MODEL NO.	MFR.	MODEL NO.	MFR.	MODEL NO.	
WC1	WATER CLOSET (TANK TYPE)	18"		1/2"		3"	4"	3"	AM. STANDARD	2938.012			McGUIRE	2168LK					SEAT BY BEMIS MODEL NO. 1655/SSC
WC2	WATER CLOSET (TANK TYPE)	16"		1/2"		3"	4"	3"	AM. STANDARD	2315.228			McGUIRE	2168LK					CHILDREN'S SIZE WATER CLOSET, SEAT: #5001G.055
URI	URINAL	17"	-	3/4"	2"	2"	2"	1-1/2"	AM. STANDARD	6501.010	SLOAN	ROYAL 186-SMO							186.1.0-SMO
URI	URINAL	24"	-	3/4"	2"	2"	2"	1-1/2"	AM. STANDARD	6501.010	SLOAN	ROYAL 186-SMO							186.1.0-SMO
LAV1	WALL-MOUNT LAVATORY	32"	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	AM. STANDARD	0476.028	MOEN	8414	McGUIRE	2165LK	McGUIRE	8302			MIXER BY LEONARD NO. 20300 OR SIMILAR
LAV2	KID'S WALL-MOUNT LAVATORY	22"	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	KOHLER	K2005	SLOAN	EBF-650	McGUIRE	2165LK	McGUIRE	8302			PROVIDE W/ BROCAR INSULATION WRAP, KOHLER OR EQUAL
SK1	SS COUNTER MOUNT SINGLE SINK	CTR	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	ELKAY	LRAD1720SS	ELKAY	LK-2432	McGUIRE	2165	McGUIRE	8312			DRAIN BY ELKAY MODEL NO. LK-35
MSI	MOP SINK	FLR	1/2"	1/2"	3"	3"	3"		FIAT	MSB24241000	FIAT	SUPPLIED W/SINK							ADA COMPLIANT, CONTROLS ON LEFT
FD	FLOOR DRAIN	FLR			3"	3"	3"		ZURN	ZN-415-6B									PROVIDE W/ TRAP PRIMER
HB	FREEZE PROOF HOSE BIBB	WALL	3/4"	3/4"					ZURN										
WH1	GAS FIRED WATER HEATER	FLR		1½"					RUUD	GPDV50-65									50 GAL. W/ HUR PUMP, 65,000 BTU, PIPE T&P TO POINT OF SAFETY
WH2	TANKLESS WATER HEATER	WALL		¾"					AO SMITH	RPVA-40X									POINT-OF-USE, 4.0 KW, AO SMITH OR EQUAL
EWC	SPLIT LEVEL DF W/ BOTTLE FILL	ADA		1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	ELKAY EZH20	EMABFTL8U8SK			McGUIRE	2166	McGUIRE	8302	ZURN	1225	

ROBERT W. JOHNSON 7483 STATE OF OHIO REGISTERED ARCHITECT

MOVEMENT CHURCH

2881 WALKER ROAD
HILLIARD, OH 43026

FRAZIER GENERAL CONTRACTORS
METAL BUILDING SPECIALIST
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architects

19031
09-21-22

P1

A P2 **PLUMBING ISOMETRIC**
SCALE: NTS = 1'-0"

PLUMBING NOTES

1. ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH ALL CITY, COUNTY AND STATE CODES AND LAWS AS THEY APPLY, INCLUDING THE BOARD OF HEALTH.
2. UNDERGROUND SANITARY PIPING SHALL BE SCHEDULE 40 PVC PIPE AND FITTINGS.
3. ABOVE GROUND SANITARY PIPING SHALL BE SCHEDULE 40, PVC PIPING AND FITTINGS EXCEPT IN RETURN AIR PLENUMS WHERE PIPING SHALL BE WRAPPED IN METAL OR PIPING MATERIAL SHALL BE COPPER OR NO-HUB IN ACCORDANCE WITH THE APPLICABLE CODE.
4. UNDERGROUND WATER PIPING SHALL BE TYPE K SOFT COPPER INSTALLED WITHOUT FITTINGS OR COUPLINGS.
5. ABOVE GROUND WATER PIPING SHALL BE TYPE L HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS OR CROSS-LINKED POLYETHYLENE (PEX) PIPING.
6. GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL. UNDER 2" SHALL BE SCREWED FITTINGS, ABOVE 2" SHALL BE WELDED.
7. INSTALL ALL EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
8. HOT & COLD WATER PIPING SHALL BE INSULATED WITH 1/2" ARMAFLEX OR EQUAL. THE PLUMBING CONTRACTOR IS RESPONSIBLE.
9. USE DECKTITE FLASHINGS FOR THE ROOF SYSTEM.

STATE OF OHIO
ROBERT W. JOHNSON
7483
REGISTERED ARCHITECT

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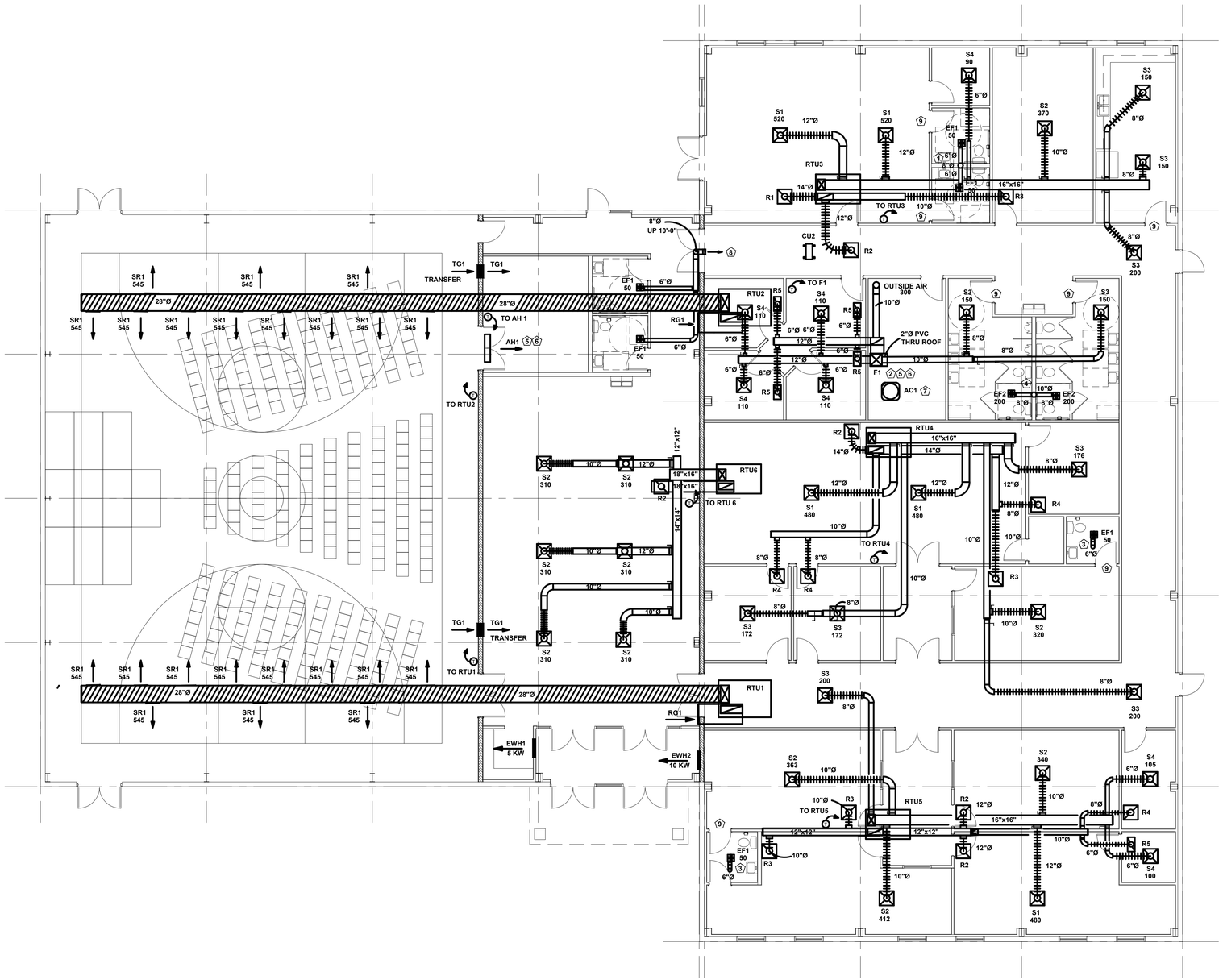
P2



GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF THE FOLLOWING CODES AND STANDARDS.
   LOCAL AND STATE BUILDING CODES (OBC & OMC 2007)
   NFPA (NATIONAL FIRE PROTECTION)
   NEC (NATIONAL ELECTRIC CODE)
   ASHREA GUIDE AND DATA BOOK
2. ALL WORK SHALL BE DONE IN ACCORDANCE (COMPLY) WITH OMC (OHIO MECHANICAL CODE) AND ALL LOCAL CODES.
3. ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED SHALL BE NEW AND UNDETERIORATED.
4. ALL WORKMANSHIP SHALL MEET OR EXCEED REGIONAL STANDARDS IN QUALITY.
5. SHEET METAL DUCTWORK SHALL COMPLY WITH SMACNA 1.0 INCH LOW PRESSURE STANDARDS.
6. SUPPORT AND SECURE ALL MATERIAL AND EQUIPMENT AS REQUIRED BY CODE, INDUSTRY STANDARDS, MANUFACTURER'S RECOMMENDATION AND GOOD PRACTICE.
7. SYSTEMS SHALL BE BALANCED FOR EVEN TEMPERATURE AND TO AVOID DRAFTS. INSTALL BALANCING DAMPERS AND SPLITTER DAMPERS AS REQUIRED FOR PROPER BALANCING OF THE SYSTEM.
8. ELECTRICAL WORK
   a. ALL POWER WIRING FOR HEAT AND VENTILATING EQUIPMENT SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR.
9. ALL SUPPLY AND RETURN AIR DUCTS AND PLENUMS INSTALLED SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH ASHREA / IES TABLE 403.9.2. INCREASE DUCT SIZE AS REQUIRED FOR INSULATION WHERE NEEDED. INSULATE RECTANGULAR DUCTWORK WITH 1" COATED FIBERGLASS INSULATION LINER, INSTALL IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS.
10. ROUND DUCT SHALL HAVE VAPOR BARRIER AND 1 1/2" DUCT WRAP.
11. FLEXIBLE DUCT TO BE CLASS 1 U.L. 181 - LENGTH PER 2011 OMC.
12. MAINTAIN 10'-0" CLEARANCE BETWEEN EXHAUST AND FRESH AIR INTAKE. PROVIDE INSECT OR BIRD SCREEN OVER ALL EXHAUST AND OUTSIDE OPENINGS.
13. PROVIDE MINIMUM 3/4" CONDENSATE DRAIN PER M 307.2 AND CBC 4149.23 AND CONNECT TO DRAINAGE SYSTEM AS REQUIRED BY CODE.
14. MOUNT THERMOSTATS AT 54" A.F.F.
15. WARRANTY ONE YEAR FOR MATERIAL EQUIPMENT AND WORKMANSHIP, NORMAL WEAR AND TEAR EXCEPT FOR BELTS. FILTER REPLACEMENT AND LUBRICATION ARE THE RESPONSIBILITY.
16. ALL MOTOR COMPRESSOR SHALL HAVE THE MANUFACTURER'S 5 YEAR WARRANT. ALL HEAT EXCHANGERS SHALL BE WARRANTED FOR 10 YEARS.

CODED NOTES.

1. RUN 8"Ø EA BVENT DUCT THRU ROOF.
2. RUN 2"Ø PVC FLUE VENT THRU ROOF.
3. RUN 6"Ø EA BVENT DUCT THRU ROOF.
4. RUN 10"Ø EA BVENT DUCT THRU ROOF.
5. RUN CONDENSATE LINE TO NEAREST DRAIN.
6. RUN LINE SET TO AC UNITS ON ROOF.
7. AC1 ON ROOF WITH EQUIPMENT RAILS.
8. 8"Ø ALUM. WALL HOOD w/ BIRD SCREEN
9. UNDERCUT DOOR 1"

FLOOR PAN-HVAC

SCALE: 1/8" = 1'-0"

AIR TIME
907 PIKE ST.
ETNA / OHIO / 43018-0217
PH: 740-927-5881 EXT: 201
WEBSITE: WWW.AIRTIMEHVAC.COM

PROJECT NAME
MOVEMENT CHURCH
WALKER ROAD
HILLIARD, OHIO 43026

DRAWING SET

☐	00 - 00 - 0000	PRELIMINARY
☐	00 - 00 - 0000	CHECK
☐	00 - 00 - 0000	BID
☒	09 - 21 - 2022	PERMIT
☐	00 - 00 - 0000	CONSTRUCTION

REVISIONS

1	03 -07 - 2022	EQUIPMENT SCHEDULE CHANGE
2	09 -21 -2022	EQUIPMENT SCHEDULE CHANGE
3	00 - 00 - 0000	
4	00 - 00 - 0000	
5	00 - 00 - 0000	
6	00 - 00 - 0000	
7	00 - 00 - 0000	
8	00 - 00 - 0000	
9	00 - 00 - 0000	
10	00 - 00 - 0000	
11	00 - 00 - 0000	
12	00 - 00 - 0000	

SEAL

PROJECT NUMBER

SHEET TITLE
HVAC FLR PLAN

SHEET NUMBER
H-1

FURNACE and DUCTLESS SPLIT SCHEDULE

OMC 403.3.1 CFM/SQ. FT.
O.A SCHEDULE: 25 CFM/SQ. FT.

EQUALS: CARRIER, TRANE, BRYANT, LENNOX

TAG	MANUFACT.	MODEL NO.	HEAT INPUT / BTU	SA / CFM	OA / CFM	VOLTS	PH	FLA	MOCP	REMARKS
F1	YORK	TME9E100C20MP12	60,000	1,200	400	115	1	10.40	15	1,2,3,4,5,6,
TAG	MANUFACT.	MODEL NO.	HEAT INPUT / BTU	SA / CFM	OA / CFM	VOLTS	PH	FLA	MOCP	REMARKS
AH1	DAIKIN	FTXS36L		1,200		230	1	1		7,8,

REMARKS: FURNACE SCHEDULE
1. NATURAL GAS
2. 7 - DAY PROGRAMMABLE THERMOSTAT
3. CONCENTRIC TERMINATION KIT
4. FILTER KIT
5. 95% AFUE
6. VENT THRU METAL ROOF W/ 2" PVC

REMARKS:DUCTLESS SPLIT SCHEDULE
7. FEED FROM OUTDOOR UNIT ON ROOF (CU1)
8. MOUNT ON WALL
3.
4.
5.
6.

CONDENSOR SCHEDULE

EQUALS: CARRIER, TRANE, BRYANT, LENNOX

TAG	MANUFACT.	MODEL NO.	COIL MODEL NO.	COOLING / BTU	VOLTS	PH	MCA	MOCP	REMARKS
CU1	YORK	YCD30B22S	CM30BXA1	36,000	208	1	21.9	35	1,3,5
CU2	DAIKIN	RXS36LV	FTXS36L	36,000	208	1	17	20	1,

REMARKS
1. R-410-A
2. 95%
3. MULTI-POSITION CASED COIL
4. COILS: ALUMINUM
5. TXV KIT
6. CU1 LINE SET: L=3/8, V=3/4
7.
8.
9.
10.
11.
12.

AIR DEVICE SCHEDULE

EQUALS: PRICE, METALAIRE

TAG	MANUFACT.	MODEL NO.	FACE	NECK	OBD	REMARKS
S1	PRICE	SCD	24X24	12"Ø	NO	1,
S2	PRICE	SCD	24X24	10"Ø	NO	1,
S3	PRICE	SCD	24X24	8"Ø	NO	1,
S4	PRICE	SCD	12X12	6"Ø	NO	1,
SR1	PRICE	HCB	10X20			3,
R1	PRICE	530	24X24	14"Ø	NO	1,
R2	PRICE	530	24X24	12"Ø	NO	1,
R3	PRICE	530	24X24	10"Ø	NO	1,
R4	PRICE	530	24X24	8"Ø	NO	1,
R5	PRICE	530	24X12	6"Ø	NO	1,
RG1	PRICE	510	48X48	18X18	NO	4,
TG1	PRICE	510	48X48	18X18	NO	4,

REMARKS
1. LAY-IN (LOUVERED)
2. SIDEWALL GRILLE
3. DRUM LOUVER FOR 28"Ø SPIRAL DUCT
4. SURFACE MOUNT
5.
6.

ROOF TOP UNIT SCHEDULE

OMC 403.3.1 CFM/SQ. FT.
OMC OFFICES: .06 CFM / SQ FT. OMC DAYCARE: .15 CFM / SQ FT. O.A SCHEDULE: .30 CFM/SQ. FT. (GYM AREA)

EQUALS: CARRIER, TRANE, BRYANT, LENNOX

LBS	TAG	MANUFACT.	MODEL NO.	HEAT INPUT / BTU	COOLING / BTU	SA / CFM	OA / CFM	VOLTS	PH	MCA	MOCP	REMARKS
889	RTU1	YORK	ZXG12AB3AA1A	220,000 BTU	120,000 BTU	4,000 / .30	1,600	208	3	54.0	60	1 THRU 12
889	RTU2	YORK	ZXG12AB3AA1A	220,000 BTU	120,000 BTU	4,000 / .30	1,600	208	3	54.0	60	1 THRU 12
625	RTU3	YORK	ZQG06E4B1AA1A	112,000 BTU	60,000 BTU	2,000 / .06	128	208	3	28.0	40	13 THRU 22
625	RTU4	YORK	ZQG06E4B1AA1A	112,000 BTU	60,000 BTU	2,000 / .18	327	208	3	28.0	40	13 THRU 22
625	RTU5	YORK	ZQG06E4B1AA1A	112,000 BTU	60,000 BTU	2,000 / .18	385	208	3	28.0	40	13 THRU 22
625	RTU6	YORK	ZQG06E4B1AA1A	112,000 BTU	120,000	2,000 / .18	486	208	3	28.0	40	13 THRU 22

REMARKS: 15 TON UNIT
1. R-410-A
2. NATURAL GAS
3. FULL PERIMETER CURB-STANDING SEAM CURB
4. ECONOMIZER
5. BELT DRIVE
6. VERTICAL DISCHARGE
7. 5 HP HIGH STATIC BELT DRIVE
8. 2" THROWAWAY FILTERS
9. MIRCOCHANNEL CONDENSER COILS
10. 7 - DAY PROGRAMMABLE THERMOSTAT
11. 2 STAGE COOLING
12. 2 STAGE HEATING

REMARKS: 5 TON UNIT
13. R-410-A
14. NATURAL GAS
15. FULL PERIMETER CURB-STANDING SEAM CURB
16. ECONOMIZER
17. BELT DRIVE
18. VERTICAL DISCHARGE
19. MEDIUM STATIC BELT DRIVE
20. 2" THROWAWAY FILTERS
21. MIRCOCHANNEL CONDENSER COILS
22. 7 - DAY PROGRAMMABLE THERMOSTAT
23. SINGLE STAGE COOLING
24. SINGLE STAGE HEATING

EXHAUST FAN SCHEDULE

EQUALS: GREENHECK, COOK, ACME, DAYTON

TAG	MANUFACT.	MODEL NO.	CFM	HP	VOLTS	PH	MCA	MOCP	REMARKS
EF1	GREENHECK	SPB-80	50		115	1	4	15	1,
EF2	GREENHECK	SPA-250	200		115	1	8	15	2,3,4,

REMARKS
1. 6"Ø BVENT THRU ROOF
2. 8"Ø BVENT THRU ROOF
3. SPEED CONTROLLER
4. TIME CLOCK BY E.C.
5.
6.

ELECTRIC WALL HEATER SCHEDULE

EQUALS: DAYTON, QMARK

TAG	MANUFACT.	MODEL NO.	KW	VOLTS	PH	AMPS	REMARKS
EWH1	QMARK	AWH	5	208	3	8	1 THRU 3
EWH2	QMARK	AWH	10	208	3	16	1 THRU 3

REMARKS
1. FLUSH MOUNT
2. INTEGRAL THERMOSTAT
3. INTERGAL DISCONNECT
4.
5.
6.

O.A. SCHEDULE:

SANCTUARY - 4,800 SQ. FT. 288 CFM @ .06, 576 PEOPLE @ 5 CFM = 2,800 = 3168 CFM / 2 UNITS 1584 CFM

CLASSROOM - PER RTU SCHEDULE

LOBBY - 1,440 SQ. FT. 86 CFM @ .06 + 83 PEOPLE @ 5 CFM = 400 CFM

TOTAL = 486 CFM

AIR TIME

907 PIKE ST.
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PROJECT NAME
MOVEMENT CHURCH
WALKER ROAD
HILLIARD, OHIO 43026

DRAWING SET

00 - 00 - 0000	PRELIMINARY
00 - 00 - 0000	CHECK
00 - 00 - 0000	BID
09 - 21 - 2022	PERMIT
00 - 00 - 0000	CONSTRUCTION

REVISIONS

03 -07 - 2022	EQUIPMENT SCHEDULE CHANGE
09 -21 -2022	EQUIPMENT SCHEDULE CHANGE
00 - 00 - 0000	
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00 - 00 - 0000	
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00 - 00 - 0000	
00 - 00 - 0000	
00 - 00 - 0000	
00 - 00 - 0000	

SEAL

PROJECT NUMBER

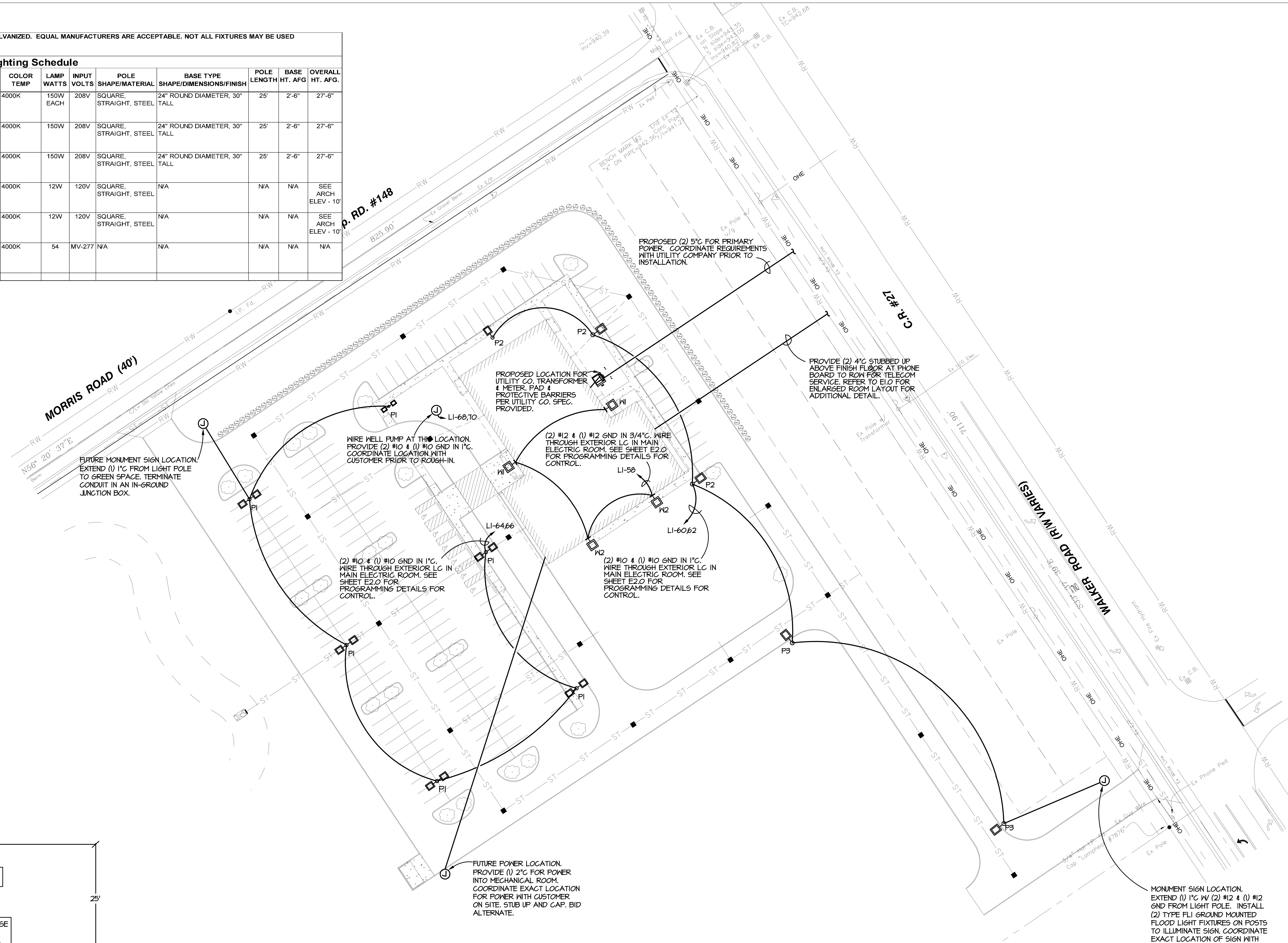
SHEET TITLE
SCHEDULES

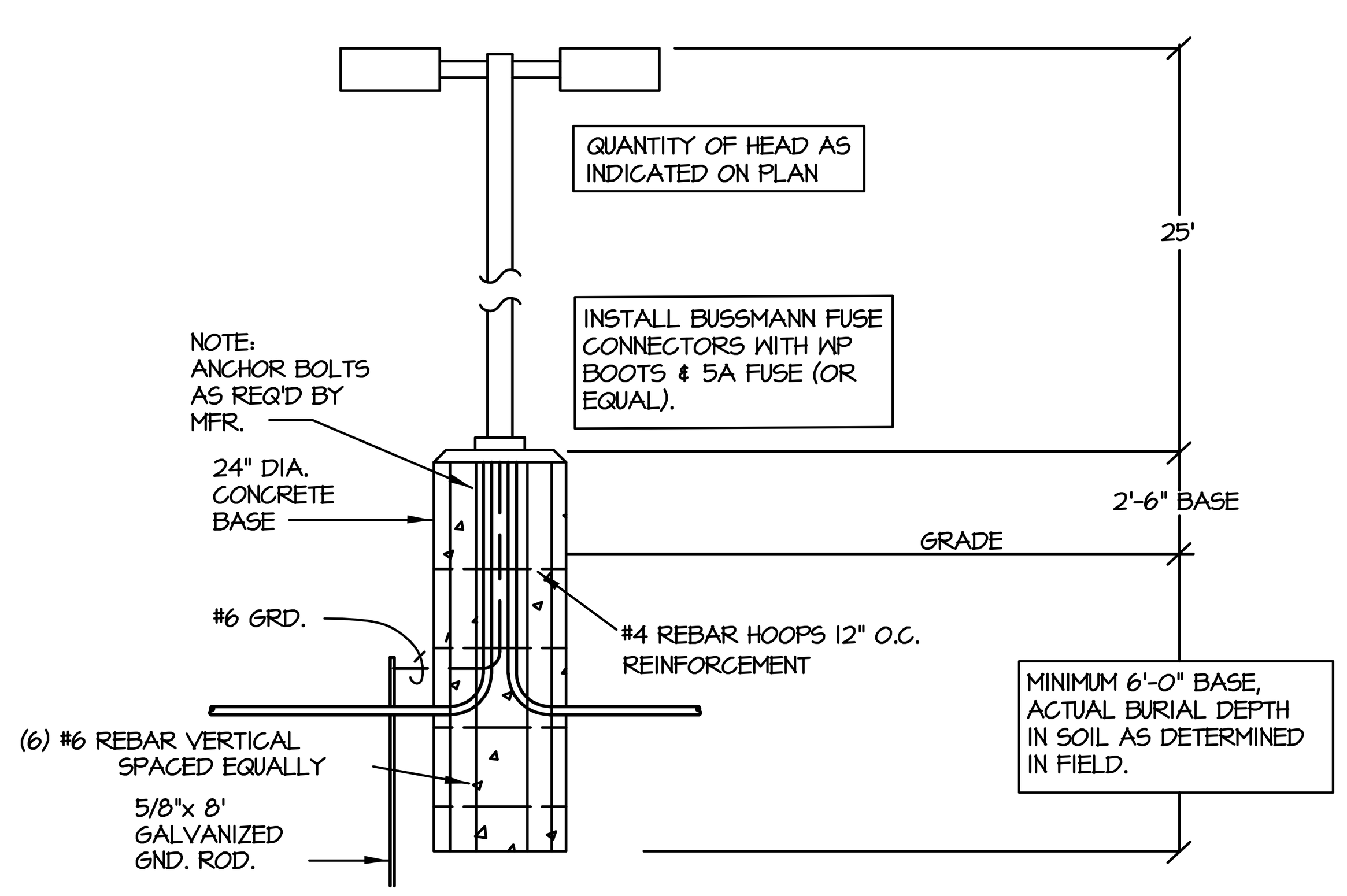
SHEET NUMBER
H-2

PROJECT NAME: MOVEMENT CHURCH	NOTES: ALL ANCHOR BOLTS TO BE GALVANIZED. EQUAL MANUFACTURERS ARE ACCEPTABLE. NOT ALL FIXTURES MAY BE USED
JOB DESCRIPTION: NEW BUILDING	
REVISION #: 0	

Site Lighting Schedule

FIXTURE DESCRIPTION STYLE/ ACCESSORIES/COLOR	FIXTURE & POLE FINISH	REFERENCE PART #	LAMP TYPE	COLOR TEMP	LAMP WATTS	INPUT VOLTS	POLE SHAPE/MATERIAL	BASE TYPE SHAPE/DIMENSIONS/FINISH	POLE LENGTH	BASE HT. AFG	OVERALL HT. AFG.
P1 - TWO HEAD LED SHOEBOX FIXTURE ON STANDARD SQUARE STEEL 25' LIGHT POLE, 22,000 LM, TYPE 3 DISTRIBUTION.	BLACK	LITHONIA RSX2-LED-P3-40K-T3-MV-SPA-DBLXD OR EQUAL	LED	4000K	150W EACH	208V	SQUARE, STRAIGHT, STEEL	24" ROUND DIAMETER, 30" TALL	25'	2'-6"	27'-6"
P2 - SINGLE HEAD LED SHOEBOX FIXTURE ON STANDARD SQUARE STEEL 25' LIGHT POLE, 22,000 LM, TYPE 3 DISTRIBUTION.	BLACK	LITHONIA RSX2-LED-P3-40K-T3-MV-SPA-DBLXD OR EQUAL	LED	4000K	150W	208V	SQUARE, STRAIGHT, STEEL	24" ROUND DIAMETER, 30" TALL	25'	2'-6"	27'-6"
P3 - SINGLE HEAD LED SHOEBOX FIXTURE ON STANDARD SQUARE STEEL 25' LIGHT POLE, 22,000 LM, TYPE 5 DISTRIBUTION.	BLACK	LITHONIA RSX2-LED-P3-40K-T5-MV-SPA-DBLXD OR EQUAL	LED	4000K	150W	208V	SQUARE, STRAIGHT, STEEL	24" ROUND DIAMETER, 30" TALL	25'	2'-6"	27'-6"
W1 - SINGLE HEAD LED SHOEBOX FIXTURE ON WITH WALLMOUNT BRACKETS, 1400 LM, TYPE 4 MEDIUM DISTRIBUTION.	BLACK	LITHONIA WDGE2-LED-P1-40K-70CRI-T4M OR EQUAL	LED	4000K	12W	120V	SQUARE, STRAIGHT, STEEL	N/A	N/A	N/A	SEE ARCH ELEV - 10'
W2 - SINGLE HEAD LED SHOEBOX FIXTURE ON WITH WALLMOUNT BRACKETS, 1400 LM, TYPE 3 MEDIUM DISTRIBUTION.	BLACK	LITHONIA WDGE2-LED-P1-40K-70CRI-T3M OR EQUAL	LED	4000K	12W	120V	SQUARE, STRAIGHT, STEEL	N/A	N/A	N/A	SEE ARCH ELEV - 10'
FL1 - GROUND MOUNTED FLOOD LIGHT, 6000 NOMINAL LUMEN PACKAGE, WIDE DISTRIBUTION, MULTI VOLT DRIVER, ADJUSTABLE KNUCKLE MOUNT	BLACK	LITHONIA TFX1-LED-40K-MV-THK OR EQUAL	LED	4000K	54	MV-277	N/A	N/A	N/A	N/A	N/A





TYPICAL LIGHT POLE BASE DETAIL

SCALE: NTS

GENERAL UNDERGROUND ELECTRIC NOTES

1. ALL UNDERGROUND EXTERIOR WIRING SHALL BE INSTALLED IN SCHEDULE 40 PVC ELECTRICAL RACEWAYS AND WIRE TYPE SHALL BE MINIMUM THWN OR XHHW INSULATION TYPE OR AS REQUIRED AND ALLOWABLE BY CODE FOR USE IN UNDERGROUND APPLICATIONS.
2. INSTALL WARNING TAPE PER COMPLIANT WITH NEC ARTICLE 300.5.D(3). INSTALL IN TRENCH MINIMUM 12" ABOVE THE UNDERGROUND INSTALLATION.
3. ALL CONDUIT ABOVE SLAB TO BE METALLIC (PVC ACCEPTABLE UNDERSLAB)
4. ALL SPARE AND FUTURE CONDUIT STUB UPS TO HAVE MANUFACTURED CAPS INSTALLED
5. COORDINATE PRE-CAST PENETRATIONS PRIOR TO DRILLING. SPECIAL ATTENTION GIVEN TO LOCATIONS WITH MULTIPLE GROUPED CONDUITS.
6. MINIMAL GROUND COVER FOR EXTERIOR UG CONDUIT SHALL BE AS FOLLOWS.
   - 6.1. PRIMARY ELECTRIC - 36" FROM FINISH TO TOP OF CONDUIT
   - 6.2. TELECOM SERVICE - 18" FROM FINISH TO TOP OF CONDUIT
   - 6.3. OTHER - 18" FROM FINISH TO TOP OF CONDUIT IN NON PAVEMENT AREAS OR 24" FROM FINISH TO TOP OF CONDUIT IN PAVED AREAS.

SITE ELECTRIC PLAN

SCALE: 1" = 40'-0"

N

OH Lic. #14682
EST. 1964
ROEHRENBECK ELECTRIC INC.
2525 English Road Columbus, Ohio 43207
Phone: 614-443-9709 www.roehrenbeck.com

ELECTRICAL PLAN

MOVEMENT CHURCH
2881 WALKER RD
HILLIARD, OH 43026

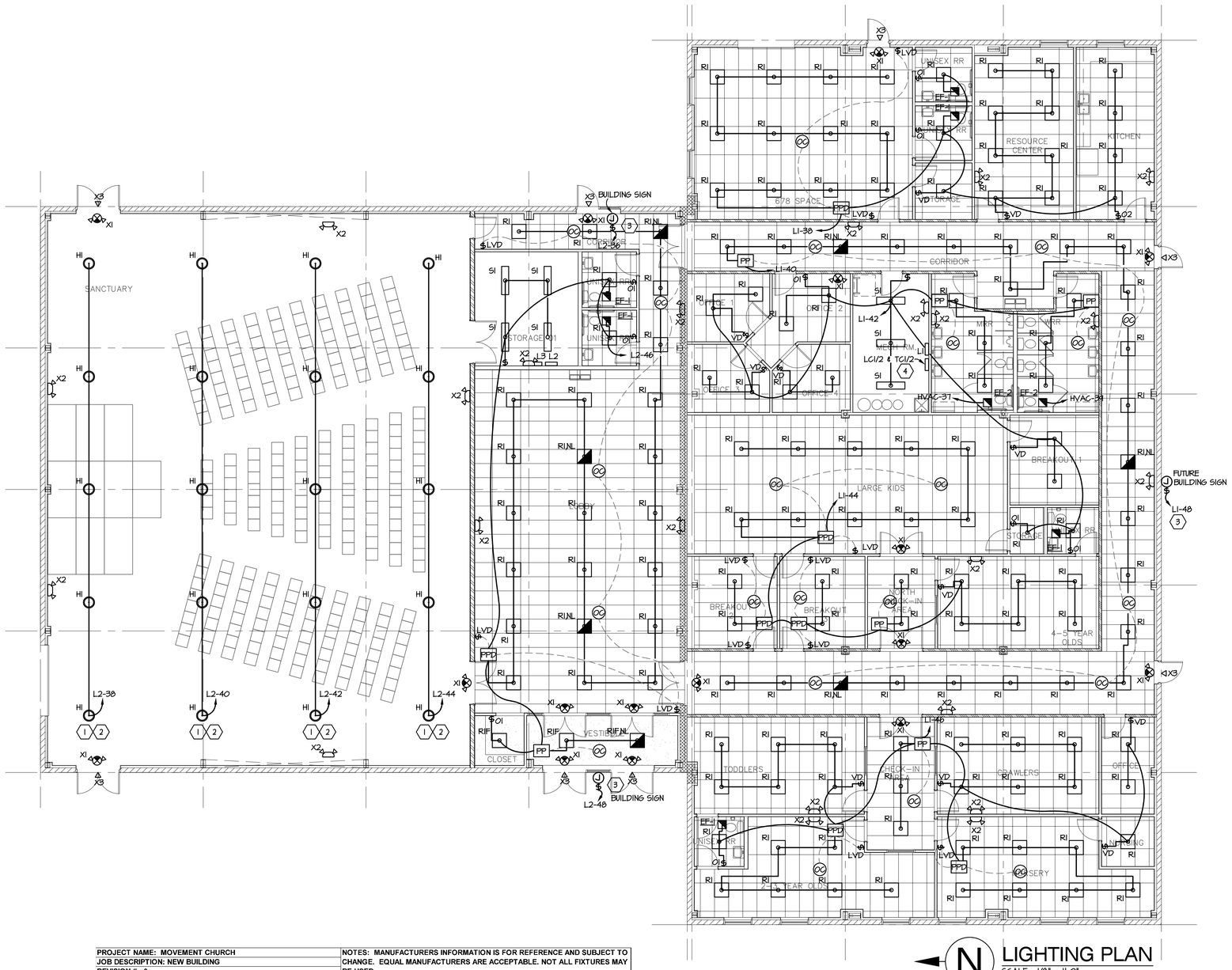
SHEET INFORMATION

DRAWN BY: JDA
CHECKED BY: JSE
SCALE: AS NOTED
DATE: AS NOTED

REVISIONS:
0 PERMIT SET 9/21/22

STATE OF OHIO
JOHN STEVEN ESCHENBRENNER
E-72677
REGISTERED PROFESSIONAL ENGINEER

SHEET NUMBER
E0.0



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LIGHTING PLAN

SCALE: 1/8" = 1'-0"

PROJECT NAME: MOVEMENT CHURCH	NOTES: MANUFACTURERS INFORMATION IS FOR REFERENCE AND SUBJECT TO
JOB DESCRIPTION: NEW BUILDING	CHANGE. EQUAL MANUFACTURERS ARE ACCEPTABLE. NOT ALL FIXTURES MAY
REVISION #: 0	BE USED.

BUILDING LIGHT FIXTURE SCHEDULE

DESCRIPTION (STYLE/MOUNTING/RATING/ACCESSORIES)	REFERENCE PART #	BALLAST TYPE	LED COLOR	LUMEN OUTPUT	WATTS	INPUT VOLTS
S1 - 4' STRIP LIGHT, LED	LITHONIA CLX-L48-4000LM-SEF-FDL-MV-GZ10-40K-80CRI OR EQUAL	MV W/ 0-10 DIMMING	4,000	4000	27	MV
R1 - 2X2 LAY IN FIXTURE, FLAT PANEL, ADJUSTABLE LUMEN OUTPUT TO BE SET AT 3300LM.	LITHONIA CPANL-2X2-22/33/44LM-40K-M4 OR EQUAL	MV W/ 0-10 DIMMING	4,000	4000	39	MV
R1F - 2X2 LAY IN FIXTURE, FLAT PANEL, ADJUSTABLE LUMEN OUTPUT TO BE SET AT 3300LM, WITH WALL FLANGE KIT	LITHONIA CPANL-2X2-22/33/44LM-40K-M4 OR EQUAL	MV W/ 0-10 DIMMING	4,000	4000	39	MV
H1 - SANCTUARY LIGHT FIXTURE, FURNISHED BY OTHERS.	BY OTHERS	DMX	TBD	TBD	TBD	TBD
X1 - EXIT/EM COMBO WITH HIGH OUTPUT 90 MINUTE BATTERY TO AUTOMATICALLY ILLUMINATE UPON LOSS OF NORMAL POWER.	LITHONIA LHQM-LED-R-HO OR EQUAL	N/A	N/A	N/A	3	MV
X2 - DUAL HEAD EM LIGHT WITH ADJUSTABLE OPTICS, 220 LUMEN 90 MINUTE BATTERY TO AUTOMATICALLY ILLUMINATE UPON LOSS OF NORMAL POWER.	LITHONIA ELM2L OR EQUAL	N/A	N/A	220	3	MV
X3 - EMERGENCY LIGHT, LOW PROFILE, LED AND WITH 90 MINUTE BATTERY TO AUTOMATICALLY ILLUMINATE UPON LOSS OF NORMAL POWER.	LITHONIA ELA-T-Q-L0309 OR EQUAL	N/A	N/A	N/A	3	MV

GENERAL NOTES

1. WIRE ALL EXIT/EM/NL FIXTURES TO LOCAL LIGHTING CIRCUIT AHEAD OF CONTROLS. BATTERY POWERED EMERGENCY LIGHTING TO ILLUMINATE FOR 90 MINUTES UPON LOSS OF NORMAL POWER.
2. VERIFY ALL LIGHT FIXTURE MOUNTING HEIGHTS PER ARCHITECTURAL REFLECTIVE CEILING PLAN.

CODED NOTES

1. VERIFY LOCATION REQUIREMENTS WITH A/V PLAN IN THIS AREA PRIOR TO ROUGH-IN.
2. WIRE LIGHTING THROUGH A/V CONTROL SYSTEM. DIMMING CONTROL WIRING BY A/V VENDOR COMPLETE. COORDINATE A/V LIGHTING CONTROL PANEL LOCATION PRIOR TO ROUGH IN.
3. WIRE THROUGH LIGHTING CONTACTOR IN MAIN ELECTRIC ROOM. EXTERIOR LIGHTING TO BE CONTROLLED VIA PHOTOCELL ON/OFF. MOUNTED ON BUILDING. VERIFY LOCATION PRIOR PRIOR TO ROUGH IN.
4. COORDINATE EXACT LOCATION OF LIGHTING CONTACTORS, LCI & LC2, AND TIME CLOCKS, TCI & TC2 WITH OTHER TRADES IN MECHANICAL ROOM.

LIGHTING CONTROL NOTES

1. OFFICES/BREAKOUTS/CLASSROOMS/NURSERY/NURSING/ET. AL. - MANUAL ON/AUTO OFF AFTER 10 MINUTES. INCLUDES 0-10V DIMMING CONTROLS
2. LOBBY & ADJACENT CORRIDOR - AUTO ON/AUTO OFF AFTER 10 MINUTES. INCLUDES 0-10V DIMMING CONTROLS.
3. STORAGE/ENTRY/CORRIDORS/VESTIBULE/CLOSET/KITCHEN/CHECK-IN - AUTO ON/AUTO OFF AFTER 10 MINUTES.
4. RESTROOMS (ET. AL.) - AUTO ON/AUTO OFF AFTER 30 minutes.

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ELECTRICAL PLAN

MOVEMENT CHURCH
2881 WALKER RD
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JOHN STEVEN ESCHENBRENNER
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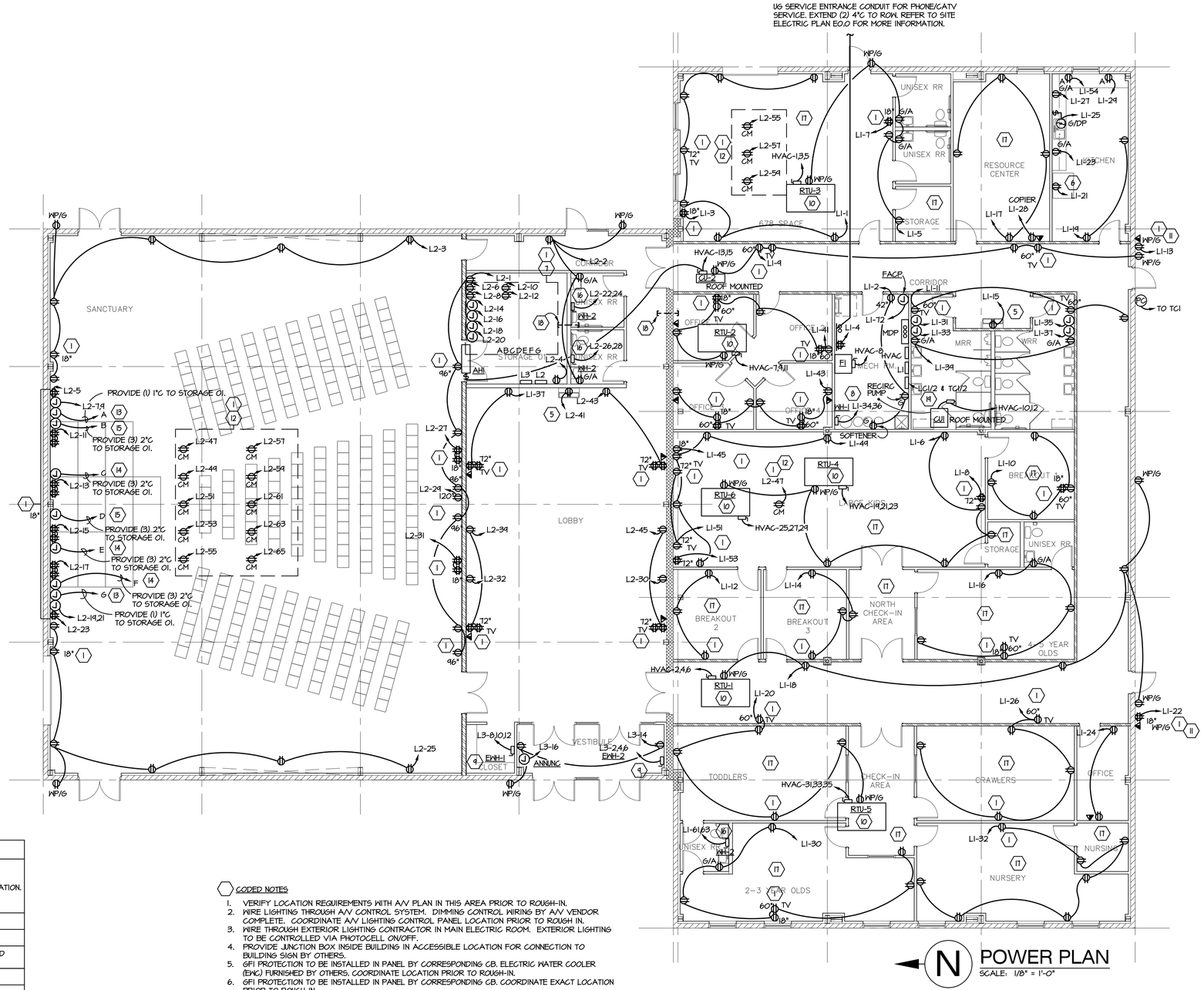
REGISTERED PROFESSIONAL ENGINEER

SHEET NUMBER

E1.0



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POWER PLAN

SCALE: 1/8" = 1'-0"

SYMBOL LEGEND	
Φ^{x}	DUPLEX RECEPTACLE +x HEIGHT ABOVE FF 18" U.O.N. G - DESIGNATES GFCI PROTECTED DUPLEX RECEPTACLE A - DEVICE LOCATED ABOVE COUNTER, CONFIRM HEIGHT W/ ELEVATION. WP - DESIGNATES WEATHERPROOF COVER FOR RECEPTACLE IG - PROVIDED ISOLATED GROUND AND IG DEVICE
Φ^{x}	QUAD RECEPTACLE +x HEIGHT ABOVE FF 18" U.O.N.
CM	DUPLEX RECEPTACLE CEILING MOUNTED.
	SINGLE PHASE SPECIAL RECEPTACLE. COORDINATE VOLTAGE AND AMPERAGE PRIOR TO ROUGH IN.
	DISCONNECT SWITCH. SIZE IDENTIFIED ON PLAN
J	WALL OR CEILING MOUNTED JUNCTION BOX
M	1Φ MOTOR, FURNISHED BY OTHERS, WIRED BY E.C.
$\$_{X}$	120V 20AMP, SINGLE POLE SWITCH WITH PLASTIC COVER U.N.O. 3 - DESIGNATES 120V, 20 AMP THREE WAY SWITCH OI - PIR WALL BOX OCCUPANCY SENSOR O2 - DUAL TECH, SINGLE RELAY WALL BOX OCCUPANCY SENSOR O/D - DUAL TECH OCC SENSOR AND 0-10V DIMMER COMBO DEVICE LV - LOW VOLTAGE OVERRIDE, ON/OFF, CAT5E LVD - LOW VOLTAGE OVERRIDE, ON/OFF/DIM, CAT5E GC - MULTI CHANNEL DISPLAY GRAPHIC CONTROLLER
	VOICE/DATA WALL ROUGH-IN WITH PLASTER RING AND 1"C STUB TO ACCESSIBLE CEILING ABOVE
OC	DUAL TECH, LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR WIRE VIA CAT5E PLENUM RATED CABLE TO PP OR PPEM.
PP	DUAL VOLTAGE POWER PACK FOR LOW VOLTAGE OCCUPANCY SENSOR CAT5E
PPD	DUAL VOLTAGE POWER PACK WITH 0-10V DIMMING FOR GRAPHIC CONTROLS. CAT5E

CODED NOTES

1. VERIFY LOCATION REQUIREMENTS WITH A/V PLAN IN THIS AREA PRIOR TO ROUGH-IN.
2. WIRE LIGHTING THROUGH A/V CONTROL SYSTEM. DIMMING CONTROL WIRING BY A/V VENDOR COMPLETE. COORDINATE A/V LIGHTING CONTROL PANEL LOCATION PRIOR TO ROUGH IN.
3. WIRE THROUGH EXTERIOR LIGHTING CONTRACTOR IN MAIN ELECTRIC ROOM. EXTERIOR LIGHTING TO BE CONTROLLED VIA PHOTOCELL ON/OFF.
4. PROVIDE JUNCTION BOX INSIDE BUILDING IN ACCESSIBLE LOCATION FOR CONNECTION TO BUILDING SIGN BY OTHERS.
5. GFI PROTECTION TO BE INSTALLED IN PANEL BY CORRESPONDING GB. ELECTRIC WATER COOLER (EWC) FURNISHED BY OTHERS. COORDINATE LOCATION PRIOR TO ROUGH-IN.
6. GFI PROTECTION TO BE INSTALLED IN PANEL BY CORRESPONDING GB. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
7. VERIFY LOCATION OF RECEPTACLES & DEVICES IN THIS ROOM WITH LV CONTRACTOR PRIOR TO ROUGH-IN. EXACT LOCATION TO BE COORDINATED ON SITE.
8. COORDINATE LOCATION FOR GAS WATER HEATER WITH PLUMBING & MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. WIRE UNIT FOR 208V, NON-SIMULTANEOUS HEATING ELEMENT OPERATION. 4.5KW MAX. PROVIDE 240V, 3P, 30A, NF NEMA 1 RATED LOCAL DISCONNECT SWITCH.
9. COORDINATE EXACT LOCATION OF ELECTRIC WALL HEATER WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. DISCONNECTING MEANS PROVIDED BY MECHANICAL CONTRACTOR.
10. RTU UNIT FURNISHED WITH INTEGRAL NON-FUSED DISCONNECT SWITCH BY MECHANICAL CONTRACTOR. DUCT SMOKE DETECTION & REMOTE TEST STATION COMPLETE BY OTHERS IF NECESSARY.
11. PROVIDE 1"C FOR A/V AT THIS LOCATION.
12. RECEPTACLES MOUNTED ON LIGHT BAR. FURNISHED AND INSTALLED BY A/V VENDOR.
13. PROVIDE POWER TO A/V VENDOR FURNISHED AND INSTALLED 14X6X4 BOX (JBX54). CONDUIT PROVIDED AS NOTED TO STORAGE 01.
14. PROVIDE POWER TO A/V VENDOR FURNISHED AND INSTALLED 16X16X6 BOX (JBX16). CONDUIT PROVIDED AS NOTED TO STORAGE 01.
15. PROVIDE POWER TO A/V VENDOR FURNISHED AND INSTALLED 12X12X6 BOX (JBX12). CONDUIT PROVIDED AS NOTED TO STORAGE 01.
16. COORDINATE EXACT LOCATION FOR ELECTRIC WALL MOUNT WATER HEATER WITH PLUMBING & MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. WIRE UNIT FOR 208V. PROVIDE 240V, 2P, 30A, NF, NEMA 1 (OR EQUAL) LOCAL DISCONNECT SWITCH.
17. RECEPTACLES IN THIS ROOM/SPACE TO BE TAMPER RESISTANT TYPE.
18. INSTALL (2) 4" WALL SLEEVES ABOVE LAY-IN CEILING FOR FUTURE IT CABLING. COORDINATE EXACT LOCATION ON-SITE W/ LV CONTRACTOR AND CUSTOMER.
19. COORDINATE EXACT LOCATION OF LIGHTING CONTACTORS, LC1 & LC2, AND TIME CLOCKS, TC1 & TC2 WITH OTHER TRADES IN MECHANICAL ROOM.

GENERAL NOTES

1. REFER TO SUPPLEMENTAL A/V VENDOR DRAWINGS PROVIDED BY OTHERS FOR ADDITIONAL REQUIREMENTS.
2. DUCT SMOKE DETECTORS FURNISHED AND INSTALLED COMPLETE BY MECHANICAL CONTRACTOR, IF APPLICABLE.
3. ENSURE WORKING SPACE ABOVE & ADJACENT TO ALL ELECTRICAL EQUIPMENT IS MAINTAINED PER NFPA SECTION 110.26.

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ROEHRENBECK
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2525 English Road Columbus, Ohio 43207
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ELECTRICAL PLAN

MOVEMENT CHURCH
2881 WALKER RD
HILLIARD, OH 43026

SHEET INFORMATION	
DRAWN BY:	JDA
CHECKED BY:	JSE
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0	PERMIT SET 9/21/22

STATE OF OHIO
JOHN STEVEN ESCHENBRENNER
E-72677
REGISTERED PROFESSIONAL ENGINEER

SHEET NUMBER

E2.0

MOVEMENT CHURCH

MDP

Available Fault Current Calculation

Ver. 4.00

Utility Fault Current ____ amperes kVA = 500 ; E = 480

I = kVA x 1000 = trans. FLA / **E x 1.732** — trans. FLA = 601

I_{sca} = **trans. FLA x 100** / **transformer Z** = 601 / 2.5 % = 24,057 amperes

I_{sca} = ampere short-circuit current RMS symmetrical.

Point to Point Method

Three Phase 480/277

'f ' factor = **1.732 x L x I** / **N x C x E L-N**

Length (distance) L = 80 — Aluminum in Nonmetallic Raceway

(ASC) I_{sca} = 24,057

conductors per phase N = 3

Phase conductor constant C = 21,391 — **Phase Conductor** — 500 kcmil

Volt Line to Line E_{L-L} = **480** Volt

Neutral conductor constant f = 0.108 — C = 21,391 — **Neutral Conductor** — 500 kcmil

Multiplier — Volt Line to Neutral E_{L-N} = **277** Volt

f = 0.217

M = 1 / 1 + f

Line to Line M = 0.902

Line to Neutral M = 0.822

Fault Current at Service Equipment

I_{sca} **x M** = fault current at terminals of main disconnect **L- L** = **21,708 amperes**

I_{sca} **x M** = fault current at terminals of main disconnect **L- N** = **19,775 amperes**

PROJECT NAME	MOVEMENT CHURCH	NOTES: ELECTRICAL LOAD SUMMARY USING
JOB DESCRIPTION	NEW BUILDING	N.E.C. DEMAND FACTORS

PANEL MDP SERVICE LOAD SUMMARY

DESCRIPTION OF LOADS	CONNECTED LOAD KW	NEC DEMAND FACTOR	NEC DEMAND KVA
LIGHTING	20.6	1.25	25.8
RECEPTACLES & NON-CONTINUOUS	99.0	1.0 < 10KW 0.5X THE REMAINDER	54.5
HVAC EQUIPMENT	109.0	1.0 & 125%X LARGEST MOTOR	113.6
MISCELLANEOUS	0.0	1.0	0.0
TOTAL CONNECTED LOAD KW	**228.6**	**TOTAL NEC CONNECTED DEMAND KVA**	**193.9**

ELECTRICAL LOAD SUMMARY

$$\frac{NEC\ DEMAND\ KVA \times 1000}{SYSTEM\ VOLTAGE} = MIN\ FEEDER\ AMPS$$

MIN FEEDER AMPS = $\frac{193.9}{208} \times \frac{1000}{1.7321} =$ 538.2

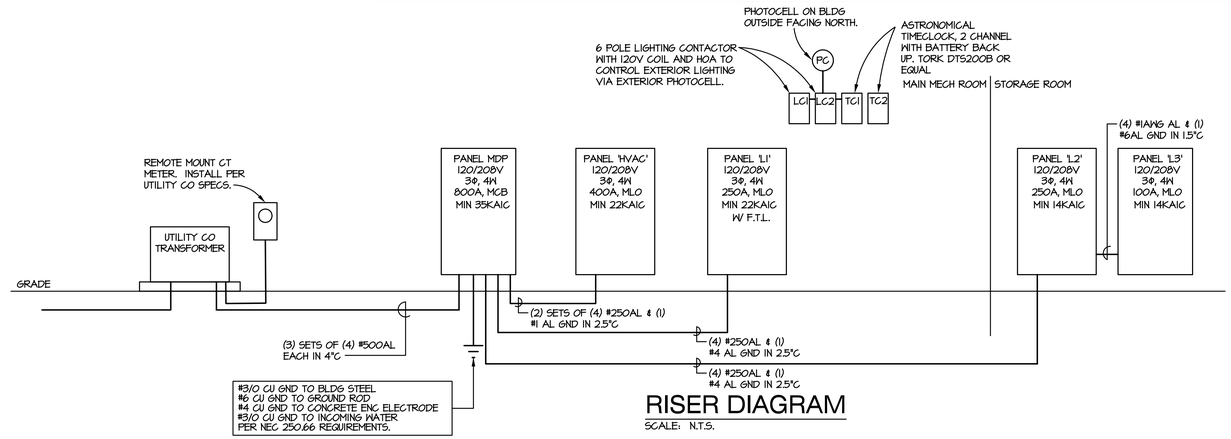
BASED UPON THE ABOVE ANALYSIS DERIVED FROM THE NEC, IT CAN BE SEEN THAT THE 120/208V, 3 PHASE, 4 WIRE, 800A SERVICE IS SUFFICIENTLY SIZED FOR THE ELECTRICAL LOADS.

GENERAL ELECTRICAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES
2. WIRE SIZE SHALL BE #12 THHN/THWN UNLESS OTHERWISE NOTED ON PLANS. ALL CONDUCTORS #6 AND LARGER SHALL BE THHN/THWN.
3. ALL CONDUCTORS SHALL BE COPPER, UNLESS OTHERWISE NOTED.
4. ALL MATERIALS SHALL BE U.L. APPROVED.
5. ALL BRANCH CIRCUITS SHALL BE PROPERLY PHASE BALANCED.
6. ALL NON-POWER RELATED WIRING IN CEILING AIR CONDITIONING PLENUM RUNNING WITHOUT CONDUIT SHALL BE TEFLON COATED CLASSIFIED FOR USE IN PLENUMS.
7. ALL WIRING DEVICES SHALL BE 20A RATED, COMMERCIAL GRADE TYPE. DEVICE COLORS AND PLATE COLORS TO BE DETERMINED BY ARCHITECT PRIOR TO PURCHASE AND INSTALLATION.
8. ALL CONDUITS, CABINETS, PANELS AND OTHER EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH N.E.C. 250 AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES.
9. ALL LUMINAIRES SHALL BE PROPERLY SUPPORTED IN ACCORDANCE WITH THE CEILING SYSTEM MANUFACTURER RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.
10. THIS DRAWING IS A GUIDE FOR THE INSTALLATION OF ELECTRICAL SERVICE. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE A FUNCTIONING SYSTEM.
11. ALL CABLES SHALL BE RUN WITHOUT SPLICES EXCEPT WHERE OTHERWISE INDICATED.
12. ALL PULL AND JUNCTION BOXES SHALL BE ACCESSABLE AT ALL TIMES.
13. EXACT POINT METHOD OF CONNECTION SHALL BE DETERMINED IN FIELD.
14. ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.
15. ALL RACEWAY ROUTED, INSULATED CONDUCTORS SYSTEM SHALL BE COLOR CODED AS FOLLOWS:

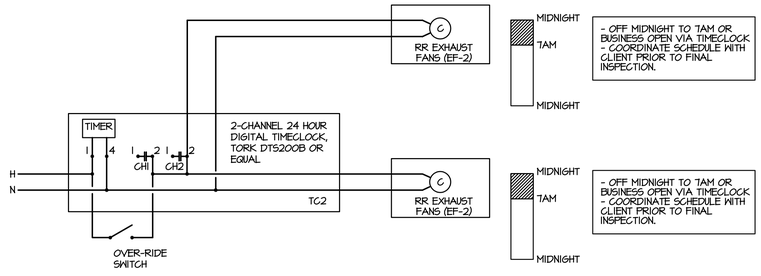
	120/208V SYSTEM	277/480V SYSTEM
PHASE "A"	BLACK	BROWN
PHASE "B"	RED	ORANGE OR PURPLE
PHASE "C"	BLUE	YELLOW
NEUTRAL	WHITE	GRAY
GROUND	GREEN	GREEN

16. ALL INTERIOR WIRING WHERE EXPOSED SHALL BE INSTALLED IN EMT CONDUIT. DIE CAST FITTINGS ARE NOT ACCEPTABLE. MC CABLING IS ONLY ACCEPTABLE WHERE CONCEALED ABOVE ACCOUSTICAL CEILINGS AND/OR FOR FINAL CONNECTIONS TO LIGHT FIXTURES.
17. ALL CONDUIT WHERE EXTENDING FROM BELOW TO ABOVE GRADE IN WAREHOUSE AND SUBJECT TO DAMAGE SHALL BE RIGID METALLIC.
18. PANEL AIC RATINGS ARE INDICATED AS MINIMUM VALUES. IT IS ELECTRICAL CONTRACTORS RESPONSIBILITY TO COORDINATE AVAILABLE FAULT CURRENT WITH POWER COMPANY.
19. ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE SCHNEIDER ELECTRIC SQUARE-D. ALL CIRCUIT BREAKERS SHALL BE BOLT ON TYPE. PANEL BUSSING AND GROUND BARS SHALL BE ALUMINUM. ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE. TRANSFORMER WINDINGS SHALL BE ALUMINUM.
20. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.
21. ELECTRICAL CONTRACTOR SHALL APPROPRIATELY INCREASE WIRE SIZES WHEN NECESSARY TO MAINTAIN 3% VOLTAGE DROP.
22. GROUNDING ELECTRODE SYSTEM SHALL FULLY COMPLY WITH NEC SECTION 250. IN PARTICULAR METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH EARTH FOR 10' OR MORE AND WITHIN 5' OF THE WATER SERVICE ENTRANCE SHALL BE BONDED AS PART OF THE GROUNDING ELECTRODE SYSTEM.



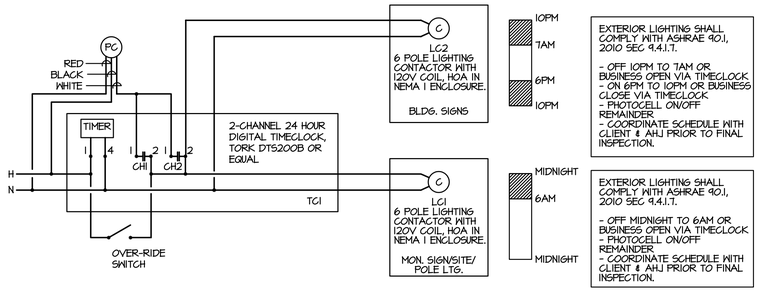
RISER DIAGRAM

SCALE: N.T.S.



RR EXHAUST FAN CONTROL DIAGRAM

SCALE: N.T.S.



LIGHTING CONTROL DIAGRAM

SCALE: N.T.S.

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SHEET NUMBER

E3.0

Panel ID: MDP | Voltage: 120 / 208 | Panel Type: NQOD OR EQUAL
Location: MECH ROOM | Phase: 3 | Type Encl.: NEMA 1
Mounting: SURFACE | Wire: 4
Main Type: 800 A, MCB | Bus Amperage: 800 Amps

All phases to be balanced to within 7% using actual connected loads.

***- REFER TO ONE-LINE/RISER DIAGRAM FOR WIRE SIZE

MIN 35 KAIC FULLY RATED
-
SERVICE ENTRANCE RATED
BOTTOM CABLE ENTRY

CKT NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CKT NO.
1	***	PANEL L1	250/3		24.296	24.296	A	0.000	0.000			BLANK		2
3	***	--	--		23.280	23.280	B	0.000	0.000			BLANK		4
5	***	--	--		22.334	22.334	C	0.000	0.000			BLANK		6
7	***	PANEL HVAC	400/3		31.203	31.203	A	0.000	0.000			BLANK		8
9	***	--	--		32.903	32.903	B	0.000	0.000			BLANK		10
11	***	--	--		29.900	29.900	C	0.000	0.000			BLANK		12
13	***	PANEL L2	250/3		21.900	21.900	A	0.000	0.000			BLANK		14
15	***	--	--		22.980	22.980	B	0.000	0.000			BLANK		16
17	***	--	--		19.860	19.860	C	0.000	0.000			BLANK		18
19		PREPARED SPACE (200/3)	--		0.000	0.000	A	0.000	0.000			BLANK		20
21		--	--		0.000	0.000	B	0.000	0.000			BLANK		22
23		--	--		0.000	0.000	C	0.000	0.000			BLANK		24
25		PREPARED SPACE (200/3)	--		0.000	0.000	A	0.000	0.000			BLANK		26
27		--	--		0.000	0.000	B	0.000	0.000			BLANK		28
29		--	--		0.000	0.000	C	0.000	0.000			BLANK		30
31		BLANK			0.000	0.000	A	0.000	0.000			BLANK		32
33		BLANK			0.000	0.000	B	0.000	0.000			BLANK		34
35		BLANK			0.000	0.000	C	0.000	0.000			BLANK		36
37		BLANK			0.000	0.000	A	0.000	0.000			BLANK		38
39		BLANK			0.000	0.000	B	0.000	0.000			BLANK		40
41		BLANK			0.000	0.000	C	0.000	0.000			BLANK		42

Actual Load Panel Summary
Phase A: 77.4 KVA
Phase B: 79.2 KVA
Phase C: 72.1 KVA
Total: 228.7 KVA

N.E.C. Load Panel Summary
Phase A: 77.4 KVA 645.0 AMPS
Phase B: 79.2 KVA 659.7 AMPS
Phase C: 72.1 KVA 600.8 AMPS
Total: 228.7 KVA 634.7 AMPS

BREAKER OPTIONS
LO BREAKER LOCK OUT DEVICE
ADJ ADJUSTABLE TRIP BREAKER W/ LSI
MAG THERMAL MAG TRIP

Panel ID: HVAC | Voltage: 120 / 208 | Panel Type: NQOD OR EQUAL
Location: MECH ROOM | Phase: 3 | Type Encl.: NEMA 1
Mounting: SURFACE | Wire: 4
Main Type: 400 A, MLO | Bus Amperage: 400 Amps

All phases to be balanced to within 7% using actual connected loads.

***- REFER TO ONE-LINE/RISER DIAGRAM FOR WIRE SIZE

MIN 22 KAIC SERIES RATED
-
BOTTOM CABLE ENTRY

CKT NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CKT NO.
1	8	RTU-3	40/3		3.400	3.400	A	6.450	6.450		60/3	RTU-1	6	2
3	8	--	--		3.400	3.400	B	6.450	6.450		--	--	6	4
5	8	--	--		3.400	3.400	C	6.450	6.450		--	--	6	6
7	6	RTU-2	60/3		6.450	6.450	A	1.700	1.700		20/1	F-1	10	8
9	6	--	--		6.450	6.450	B	3.400	3.400		50/2	CU1	6	10
11	6	--	--		6.450	6.450	C	3.400	3.400		--	--	6	12
13	10	CU2/AH1	20/2		2.040	2.040	A	0.000	0.000		30/3	SPARE		14
15	10	--	--		2.040	2.040	B	0.000	0.000		--	--		16
17		SPARE	20/1		0.000	0.000	C	0.000	0.000		--	--		18
19	8	RTU-4	40/3		3.400	3.400	A	0.000	0.000		20/3	SPARE		20
21	8	--	--		3.400	3.400	B	0.000	0.000		--	--		22
23	8	--	--		3.400	3.400	C	0.000	0.000		--	--		24
25	8	RTU-6	40/3		3.400	3.400	A	0.000	0.000		30/2	SPARE		26
27	8	--	--		3.400	3.400	B	0.000	0.000		--	--		28
29	8	--	--		3.400	3.400	C	0.000	0.000		20/2	SPARE		30
31	8	RTU-5	40/3		3.400	3.400	A	0.000	0.000		--	--		32
33	8	--	--		3.400	3.400	B	0.000	0.000		20/2	SPARE		34
35	8	--	--		3.400	3.400	C	0.000	0.000		--	--		36
37	10	EF-2	20/1	TC2	0.963	0.963	A	0.000	0.000		30/1	SPARE		38
39	10	EF-2	20/1	TC2	0.963	0.963	B	0.000	0.000		20/1	SPARE		40
41		SPARE	20/1		0.000	0.000	C	0.000	0.000		20/1	SPARE		42

Actual Load Panel Summary
Phase A: 31.2 KVA
Phase B: 32.9 KVA
Phase C: 29.9 KVA
Total: 94.0 KVA

N.E.C. Load Panel Summary
Phase A: 31.2 KVA 260.0 AMPS
Phase B: 32.9 KVA 274.2 AMPS
Phase C: 29.9 KVA 249.2 AMPS
Total: 94.0 KVA 260.9 AMPS

BREAKER OPTIONS
LC# WIRE THRU LTG CONTACTOR #
LO BREAKER LOCK OUT DEVICE
GFI GFI TYPE BREAKER
HT HANDLE TIE
TC# WIRE THRU TIME CLOCK #

Panel ID: L1 | Voltage: 120 / 208 | Panel Type: NQOD OR EQUAL
Location: MECH ROOM | Phase: 3 | Type Encl.: NEMA 1
Mounting: SURFACE | Wire: 4
Main Type: 250 A, MLO | Bus Amperage: 250 Amps

All phases to be balanced to within 7% using actual connected loads.

***- REFER TO ONE-LINE/RISER DIAGRAM FOR WIRE SIZE

MIN 22 KAIC SERIES RATED
-
W/T FTL
BOTTOM CABLE ENTRY

CKT NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CKT NO.
1	12	678 SPACE REC	20/1		1.380	1.380	A	1.140	1.140		20/1	MECH RM REC	12	2
3	12	678 SPACE STG PNL	20/1		1.000	1.000	B	0.360	0.360		20/1	PHONE BOARD REC	12	4
5	12	678 SPACE REC	20/1		1.080	1.080	C	1.080	1.080		20/1	LRG KIDS RM REC	12	6
7	12	678 SPACE CNTRL BTH	20/1		1.000	1.000	A	1.000	1.000		20/1	LRG KIDS CNTRL	12	8
9	12	CORRIDOR REC	20/1		1.080	1.080	B	1.020	1.020		20/1	BREAKOUT 01 REC	12	10
11	12	CORR & RR TV REC	20/1		0.540	0.540	C	0.660	0.660		20/1	BREAKOUT 02 REC	12	12
13	12	EAST SIDE DANTE CONN	20/1		1.000	1.000	A	0.840	0.840		20/1	BREAKOUT 03 REC	12	14
15	12	CORRIDOR EWC	20/1	GFI	1.000	1.000	B	1.080	1.080		20/1	4-5 YR OLDS REC	12	16
17	12	RESOURCE CENTER REC	20/1		0.720	0.720	C	1.080	1.080		20/1	CORRIDOR REC	12	18
19	12	KITCHEN CONV REC	20/1		0.360	0.360	A	0.900	0.900		20/1	CORR TV & TODDLER RM	12	20
21	12	REFRIGERATOR	20/1	GFI	1.000	1.000	B	1.000	1.000		20/1	EAST SIDE DANTE CONN	12	22
23	12	COFFEE POT	20/1		1.000	1.000	C	0.360	0.360		20/1	OFFICE REC	12	24
25	12	DISPOSAL	20/1		0.756	0.756	A	0.900	0.900		20/1	CORR TV & CRAWLERS REC	12	26
27	12	MICRO	20/1		1.000	1.000	B	1.000	1.000		20/1	COPIER	12	28
29	12	KITCH ABOVE CNTR REC	20/1		0.180	0.180	C	1.440	1.440		20/1	2-3 YR OLD & CHCK-IN REC	12	30
31	12	MRR HD	20/1		1.500	1.500	A	1.260	1.260		20/1	NURSERY & NURSING REC	12	32
33	12	MRR HD	20/1		1.500	1.500	B	2.333	2.333		30/2	WH-1		34
35	12	WRR HD	20/1		1.500	1.500	C	2.333	2.333		--	--		36
37	12	WRR HD	20/1		1.500	1.500	A	1.253	1.253		20/1	SE BLDG INT LTG	12	38
39	12	MRR & WRR REC	20/1		0.360	0.360	B	0.936	0.936		20/1	S BLDG INT CORR LTG	12	40
41	12	OFFICE 1 & 2 REC	20/1		1.620	1.620	C	1.283	1.283		20/1	S BLDG INT LTG	12	42
43	12	OFFICE 3 & 4 REC	20/1		1.620	1.620	A	0.858	0.858		20/1	S BLDG INT LTG	12	44
45	12	LRG KIDS RM NEMA L6-20R	20/1		0.180	0.180	B	1.387	1.387		20/1	SW BLDG INT LTG	12	46
47	12	LRG KIDS CM REC	20/1		0.720	0.720	C	0.750	0.750	LC2	20/1	FUTURE BLDG SIGN	12	48
49	12	LRG KIDS RM REC	20/1		0.900	0.900	A	0.000	0.000		20/1	SPARE		50
51	12	LRG KIDS RM DISPLAY	20/1		0.600	0.600	B	0.000	0.000		20/1	SPARE		52
53	12	LRG KIDS STG PNL	20/1		1.000	1.000	C	0.180	0.180		20/1	KITCH ABOVE CNTR REC	12	54
55	12	678 SPACE CM REC	20/1		0.720	0.720	A	0.000	0.000		20/1	SPARE		56
57	12	678 SPACE CM REC	20/1		0.720	0.720	B	0.045	0.045	LC1	20/1	BLDG WALL PACK LTG	12	58
59	12	678 SPACE CM REC	20/1		0.720	0.720	C	0.429	0.429	LC1	20/2	SITE LTG - ENTRY	10	60
61	12	UNISEX RR WH-2	20/2		2.000	2.000	A	0.429	0.429		---	---	10	62
63	12	--	--		2.000	2.000	B	1.179	1.179	LC1	20/2	SITE LTG - PARKING LOT	10	64
65	12	LIGHTING CONTACTOR 1 (LC1)	20/1		0.480	0.480	C	1.179	1.179		--	--	10	66
67	12	LIGHTING CONTACTOR 2 (LC2)	20/1		0.480	0.480	A	2.500	2.500		30/2	WELL PUMP	10	68
69		SPARE	20/1	GFI	0.000	0.000	B	2.500	2.500		--	--	10	70
71		SPARE	20/1	GFI	0.000	0.000	C	2.000	2.000	LO	20/1	FACP	12	72

Actual Load Panel Summary
Phase A: 24.3 KVA
Phase B: 23.3 KVA
Phase C: 22.3 KVA
Total: 69.9 KVA

N.E.C. Load Panel Summary
Phase A: 24.3 KVA 202.5 AMPS
Phase B: 23.3 KVA 194.0 AMPS
Phase C: 22.3 KVA 186.1 AMPS
Total: 69.9 KVA 194.1 AMPS

BREAKER OPTIONS
LC# WIRE THRU LTG CONTACTOR #
LO BREAKER LOCK OUT DEVICE
GFI GFI TYPE BREAKER
HT HANDLE TIE
FTL FEED THRU LUGS

Panel ID: L2 | Voltage: 120 / 208 | Panel Type: NQOD OR EQUAL
Location: STORAGE 01 | Phase: 3 | Type Encl.: NEMA 1
Mounting: SURFACE | Wire: 4
Main Type: 250 A, MLO | Bus Amperage: 250 Amps

All phases to be balanced to within 7% using actual connected loads.

***- REFER TO ONE-LINE/RISER DIAGRAM FOR WIRE SIZE

MIN 14 KAIC SERIES RATED
-
BOTTOM CABLE ENTRY

CKT NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CKT NO.
1	12	GYM EAST WALL & STOR 01	20/1		1.260	1.260	A	0.720	0.720		20/1	CORRIDOR & UNISEX RR REC	12	2
3	12	GYM NORTH WALL	20/1		1.440	1.440	B	0.180	0.180		20/1	L2 PNL REC	12	4
5	12	GYM WEST WALL	20/1		1.000	1.000	C	0.800	0.800		20/1	AVR01-01	12	6
7	12	GYM WEST WALL	20/2		1.000	1.000	A	0.800	0.800		20/1	AVR01-01	12	8
9	12	--	--		1.000	1.000	B	1.000	1.000		20/1	AVR01-01	12	10
11	12	STAGE QUAD PLEX	20/1		1.000	1.000	C	1.000	1.000		20/1	AVR01-01	12	12
13	12	STAGE QUAD PLEX	20/1		1.000	1.000	A	1.000	1.000		20/1	AVR01-01	12	14
15	12	STAGE QUAD PLEX	20/1		1.000	1.000	B	1.000	1.000		20/1	AVR01-01	12	16
17	12	SPARE	20/1		0.000	0.000	C	1.000	1.000		20/1	AVR01-01	12	18
19	12	SPARE	20/2		0.000	0.000	A	1.000	1.000		20/1	AVR01-01	12	20
21	12	--	--		1.000	1.000	B	2.000	2.000		20/2	UNISEX RR WH-2	12	22
23	12	STAGE QUAD PLEX	20/1		1.000	1.000	C	2.000	2.000		--	--	12	24
25	12	GYM SOUTH WALL	20/1		1.440	1.440	A	2.000	2.000		20/2	UNISEX RR WH-2	12	26
27	12	GYM EAST WALL	20/1		1.000	1.000	B	2.000	2.000		--	--	12	28
29	12	GYM EAST WALL	20/1		1.000	1.000	C	0.180	0.180		20/1	LOBBY REC	12	30
31	12	GYM EAST WALL	20/1		1.000	1.000	A	0.180	0.180		20/1	LOBBY REC	12	32
33	12	GYM NORTH WALL	20/1		0.000	0.000	B	0.000	0.000		20/1	SPARE		34
35	12	GYM NORTH WALL	20/1		0.000	0.000	C	0.750	0.750	LC2	20/1	BLDG SIGN	12	36
37	12	LOBBY DISPLAYS EAST	20/1		0.900	0.900	A	0.500	0.500		20/1	SANCTUARY LTG	12	38
39	12	LOBBY DISPLAYS EAST	20/1		0.900	0.900	B	0.500	0.500		20/1	SANCTUARY LTG	12	40
41	12	LOBBY EWC	20/1	GFI	1.000	1.000	C	0.500	0.500		20/1	SANCTUARY LTG	12	42
43	12	LOBBY DISPLAYS WEST	20/1		0.900	0.900	A	0.500	0.500		20/1	SANCTUARY LTG	12	44
45	12	LOBBY DISPLAYS WEST	20/1		0.900	0.900	B	1.400	1.400		20/1	N. INTERIOR LTG	12	46
47	12	CEILING MOUNT GYM REC	20/1		0.720	0.720	C	0.750	0.750	LC2	20/1	BLDG SIGN	12	48
49	12	CEILING MOUNT GYM REC	20/1		0.720	0.720	A	0.000	0.000		20/1	SPARE		50
51	12	CEILING MOUNT GYM REC	20/1		0.720	0.720	B	0.000	0.000		20/1	SPARE		52
53	12	CEILING MOUNT GYM REC	20/1		0.720	0.720	C	0.000	0.000		20/1	SPARE		54
55	12	CEILING MOUNT GYM REC	20/1		0.720	0.720	A	0.000	0.000		20/2	SPARE		56
57	12	CEILING MOUNT GYM REC	20/1		0.720	0.720	B	0.000	0.000		--	--		58
59	12	CEILING MOUNT GYM REC	20/1		0.720	0.720	C	0.000	0.000		20/2	SPARE		60
61	12	CEILING MOUNT GYM REC	20/1		0.720	0.720	A	0.000	0.000		--	--		62
63	12	CEILING MOUNT GYM REC	20/1		0.720	0.720	B	0.000	0.000		30/2	SPARE		64
65	12	CEILING MOUNT GYM REC	20/1		0.720	0.720	C	0.000	0.000		--	--		66
67		SPARE	20/1	GFI	0.000	0.000	A	5.540	5.540		100/3	PANEL L3	***	68
69		SPARE	20/1	GFI	0.000	0.000	B	5.500	5.500		--	--	***	70
71		SPARE	20/1	LO	0.000	0.000	C	5.000	5.000		--	--	***	72

Actual Load Panel Summary
Phase A: 21.9 KVA
Phase B: 23.0 KVA
Phase C: 19.9 KVA
Total: 64.7 KVA

N.E.C. Load Panel Summary
Phase A: 21.9 KVA 182.5 AMPS
Phase B: 23.0 KVA 191.5 AMPS
Phase C: 19.9 KVA 165.5 AMPS
Total: 64.7 KVA 179.7 AMPS

BREAKER OPTIONS
LC# WIRE THRU LTG CONTACTOR #
LO BREAKER LOCK OUT DEVICE
GFI GFI TYPE BREAKER
HT HANDLE TIE
TC# WIRE THRU TIME CLOCK #

Panel ID: L3 | Voltage: 120 / 208 | Panel Type: NQOD OR EQUAL
Location: STORAGE 01 | Phase: 3 | Type Encl.: NEMA 1
Mounting: SURFACE | Wire: 4
Main Type: 100 A, MLO | Bus Amperage: 100 Amps

All phases to be balanced to within 7% using actual connected loads.

***- REFER TO ONE-LINE/RISER DIAGRAM FOR WIRE SIZE

MIN 14 KAIC SERIES RATED
-
BOTTOM CABLE ENTRY

CKT NO.	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	N.E.C. LOAD (KVA)	ACTUAL LOAD (KVA)	PHASE	ACTUAL LOAD (KVA)	N.E.C. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	CKT NO.
1		SPARE	20/1		0.000	0.000	A	3.333	3.333		40/3	EWH-2	8	2
3		SPARE	20/1		0.000	0.000	B	3.333	3.333		--	--	8	4
5		SPARE	20/1		0.000	0.000	C	3.333	3.333		--	--	8	6
7		SPARE	20/1		0.000	0.000	A	1.667	1.667		20/3	EWH-1	12	8
9		SPARE	20/1		0.000	0.000	B	1.667	1.667		--	--	12	10
11		SPARE	20/1		0.000	0.000	C	1.667	1.667		--	--	12	12
13		SPARE	20/1		0.000	0.000	A	0.540	0.540		20/1	CLOSET & VEST REC	12	14
15		SPARE	20/1		0.000	0.000	B	0.500	0.500	LO	20/1	FACP REM ANNUNC.	12	16
17		SPARE	20/1		0.000	0.000	C	0.000	0.000		20/1	SPARE		18
19		SPARE	20/1		0.000	0.000	A	0.000	0.000		20/1	SPARE		20
21		SPARE	20/1		0.000	0.000	B	0.000	0.000		20/1	SPARE		22
23		SPARE	20/1		0.000	0.000	C	0.000	0.000		20/1	SPARE		24
25		SPARE	20/1		0.000	0.000	A	0.000	0.000		20/1	SPARE		26
27		SPARE	20/1		0.000	0.000	B	0.000	0.000		20/1	SPARE		28
29		SPARE	20/1		0.000	0.000	C	0.000	0.000		20/1	SPARE		30
31		SPARE	20/1		0.000	0.000	A	0.000	0.000		20/1	SPARE		32
33		SPARE	20/1		0.000	0.000	B	0.000	0.000		20/3	SPARE		36
35		SPARE	20/1		0.000	0.000	C	0.000	0.000		20/2	SPARE		34
37		SPARE	20/1		0.000	0.000	A	0.000	0.000		20/4	SPARE		38
39		SPARE	20/1		0.000	0.000	B	0.000	0.000		20/5	SPARE		40
41		SPARE	20/1		0.000	0.000	C	0.000	0.000		20/6	SPARE		42

Actual Load Panel Summary
Phase A: 5.5 KVA
Phase B: 5.5 KVA
Phase C: 5.0 KVA
Total: 16.0 KVA

N.E.C. Load Panel Summary
Phase A: 5.5 KVA 46.2 AMPS
Phase B: 5.5 KVA 45.8 AMPS
Phase C: 5.0 KVA 41.7 AMPS
Total: 16.0 KVA 44.5 AMPS

BREAKER OPTIONS
LC# WIRE THRU LTG CONTACTOR #
LO BREAKER LOCK OUT DEVICE
GFI GFI TYPE BREAKER
HT HANDLE TIE
TC# WIRE THRU TIME CLOCK #

OH Lic. #4682
EST. 1964
ROEHRENBECK
ELECTRIC INC.
2525 English Road Columbus, Ohio 43207
Phone: 614-443-9709 www.roehrenbeck.com

ELECTRICAL PLAN

MOVEMENT CHURCH
2881 WALKER RD
HILLIARD, OH 43026

SHEET INFORMATION

DRAWN BY: JDA
CHECKED BY: JSE
SCALE: AS NOTED
DATE: AS NOTED

REVISIONS:
0 PERMIT SET 9/21/22

STATE OF OHIO
JOHN STEVEN ESCHENBRENNER
E-72677
REGISTERED
PROFESSIONAL ENGINEER

SHEET NUMBER
E3.1