



# BOARD OF ZONING APPEALS STAFF REPORT

**To:** Members of the Board of Zoning Appeals

**From:** Tom Vander Woude, Planning Director

**Meeting Date:** June 14, 2022

**Agenda Item:** BZA Docket No. 22-006

**Hearing:** **PRELIMINARY HEARING**

**Application Type:** **Developmental Standards Variances**

**Summary:** Paul Kats on behalf of Munster Church, Inc. requesting multiple variances from the Civic Zone Building and Lot Standards; Private Lighting Standards; Vehicular Parking, Bicycle Parking, Loading Space & Trash Receptacles; and Streetscape Repairs, Replacements, & Improvements sections to permit the construction of an addition to the Munster Church and the construction of a new multipurpose accessory building on the same site at 214 Ridge Road.

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**Applicant:** Paul Kats on behalf of Munster Church, Inc

**Property Address:** 214 Ridge Road

**Current Zoning:** CZ – Civic Zone

**Adjacent Zoning:** North: CD-4.A  
South: CD-3.R2  
East: CD-5  
West: CD-4.A

**Action Requested:** Schedule public hearing

**Additional Actions Required:** Findings of Fact

**Staff Recommendation:** **Schedule public hearing**

**Attachments:**

- BZA 22-006 variance application
- Munster Church Building Addition, 214 Ridge Road plan set dated 2022.06.06
- Munster Church photometric plan prepared by KSA Lighting & Controls dated 2022.05.26
- Munster Church addition Exterior Elevations and Floor Plan prepared by Rohn Associates dated 2022.06.03
- Munster Church accessory building Exterior Elevations and Floor Plan prepared by Rohn Associates dated 2022.06.03
- Munster Church accessory building Exterior Renderings prepared by Rohn Associates dated 2022.06.03
- Comment response letter from Ted Rohn
- Comment Response letter from Don Torrenga dated 2022.06.03



Figure 1 Subject property.

## BACKGROUND

Paul Kats on behalf of Munster Church, Inc. has submitted an application for approval of multiple variances in connection with a development plan to construct a 13,350 square foot addition and a new 7,140 square foot multipurpose accessory building on the property of the Munster Church at 214 Ridge Road, the southeast corner of Hohman Avenue and Ridge Road. Along with the new buildings, Munster Church proposes to modify the site by narrowing the existing Ridge Road driveway, improving the landscaping

along the Ridge Road frontage, adding and relocating parking lot light fixtures, adding some parking lot landscaping, and installing a detention pond at the southeast corner of the property. The church proposes to demolish two existing single-family homes and two garages on the property.

The proposed addition will be constructed to the east of the existing church building along the Ridge Road Frontage. It will include a fellowship hall, offices, a conference room, classrooms, children's rooms, men's and women's bathrooms, and a large multipurpose room with a stage that can be used as a gym or as an auditorium. Detailed renderings and floor plans are included as attachments.



Figure 2 Rendering of proposed addition

The accessory building will be constructed along the east side of the property. It will include classrooms, space for a food pantry, offices, bathrooms, storage, and a workshop for the youth programs. Detailed renderings and floor plans are included in the attachments.



Figure 3 Renderings of proposed accessory building



## DISCUSSION

The Development Plan for the project has been submitted to the Munster Plan Commission but cannot be approved as presented without the granting of the variances described below.

### CIVIC ZONE BUILDING AND LOT STANDARDS

1. TABLE 26-6.405.B CIVIC ZONE STANDARDS Façade Position – required to be parallel to straight Frontage Line or to tangent of curved Frontage Line.

**Required:** The proposed building addition must be positioned parallel to Ridge Road

**Proposed:** The proposed building addition is positioned on a straight east-west line.

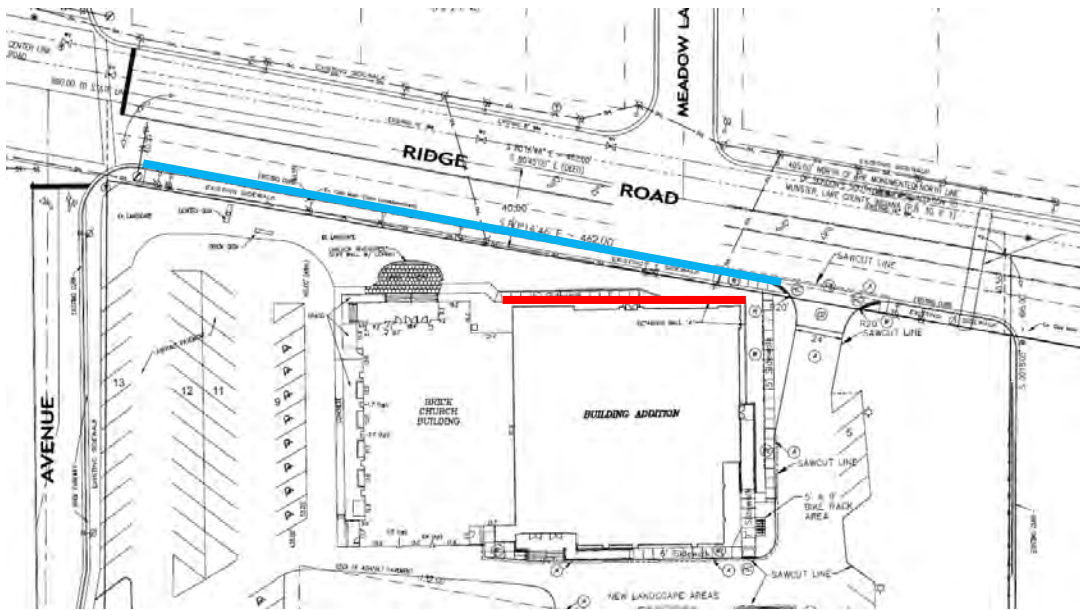


Figure 4 Building facade position shown in red; Ridge Road Frontage line shown in blue

2. TABLE 26-6.405.B CIVIC ZONE STANDARDS Façade Design Proportions - Must be based approximately either on (a) proportions that can be expressed as a fraction using whole numbers (e.g. 1:1, 2:1, 3:2, 4:3, etc) or (b) the following proportions: 1.414:1 or 1.618:1.

**Required:** The proportions of the proposed building addition either in its entirety or in its individual components must be based on the proportions listed above.

**Proposed:** The proposed building addition plans include a note: "AVERAGE FAÇADE PROPORTIONS RATIO = 1:4".

Staff comment: It is unclear to staff whether this standard is met and a more detailed response will be required from the architect.

3. TABLE 26-6.405.B CIVIC ZONE STANDARDS Roof Type and Pitch - Pitch, if any 8:12 - 14:12.

**Required:** The pitch of all roofs on the building addition must either be flat or be between 8:12 and 14:12.

**Proposed:** The building addition has an east-west oriented roof over the multipurpose room that has a 5:12 pitch.



*Figure 5 Church addition viewed from the southeast showing multipurpose room with 5:12 roof pitch.*

4. TABLE 26-6.405.B CIVIC ZONE STANDARDS Main Entrance must be in Facade of Principal Frontage.

**Required:** The main entrance of the church building and addition must be on the Ridge Road side of the building and should have a pedestrian connection to the door from the street.

**Proposed:** The existing pedestrian connection from Ridge Road to the church doors is proposed to be removed. No new sidewalk connections are proposed between the Ridge Road façade and the public sidewalk.



*Figure 6 Existing pedestrian connection to Ridge Road proposed to be removed.*

5. TABLE 26-6.405.B CIVIC ZONE STANDARDS Screens Parking, Loading Areas, Service Areas, Outdoor Storage, Drive-Throughs, Trash Receptacles/ Dumpsters, HVAC and other equipment Screened from Frontage, Civic Space and Adjacent Property Required; except at Driveways: Parking Lots and Parking Areas shall be Screened from Frontage and Civic Space by Building or Streetscreen; Parking Structures shall be Screened from Frontages by Liner Buildings. Otherwise, Screening shall be by Building, Wall, hedge or Fence at Frontage or Building, Wall, hedge or Fence not at Frontages or Adjacent to Civic Space.

**Required:** The parking area must be screened from the residential properties to the south by a six-foot fence or hedge.

**Proposed:** Some existing residential fences and some intermittent landscaping is already present south of the parking areas.

## LIGHTING

1. SECTION 26-6.405.Q.3.a Illumination of Parking Areas, Parking Lots, Parking Structures, and all pedestrian ways shall be provided at an average of 1.0-2.5 footcandles and a minimum of 0.4 foot-candles.

**Required:** Described above.

**Proposed:** Areas along the south edge of the east parking lot are illuminated at a level less than 0.4 foot-candles.

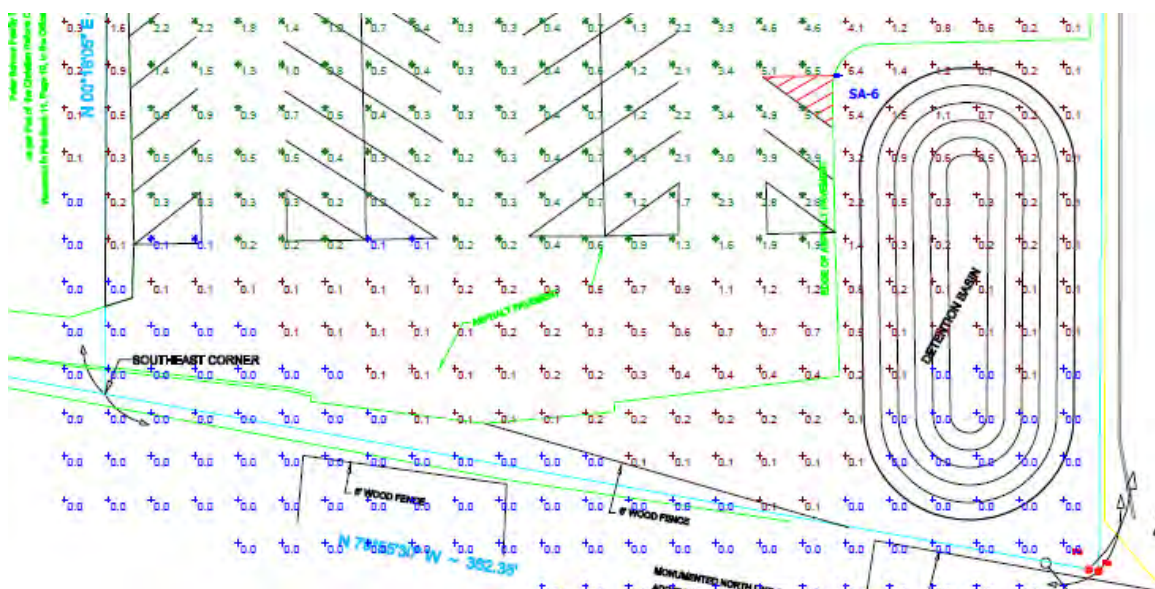


Figure 7 Portions of parking lot not meeting minimum illumination standard

2. TABLE 26-6.26-6.405.Q-1 Head/Luminaire Types. Colonial, Coach, and Acorn types permitted.

**Required:** All new or relocated parking lot light fixtures must be Colonial, Coach, or Acorn types.

**Proposed:** New and relocated parking lot lights are standard fixtures.


Image	Quantity	Manufacturer	Catalog Number	Description
	6	Lithonia Lighting	DSX1 LED P8 30K T4M MVOLT	DSX1 LED P8 30K T4M MVOLT

Figure 8 Noncompliant light fixture type

## LANDSCAPING

- SECTION 26-6.405.O.1.h.vii.l.1) Parking Areas and Parking Lots shall contain at least one landscape island for every ten (10) parking spaces. Parking Lots with more than one landscape island shall have such islands distributed throughout the Parking Lot.

**Required:** Landscape islands are required to be installed in existing parking lots when a new building is constructed, but the requirement can be waived if they can't be installed without removing required parking spaces. In this case, there are 18 existing areas at the ends of parking rows that can be converted from asphalt to landscape islands.

**Proposed:** Only three new landscape islands are proposed south of the building addition.

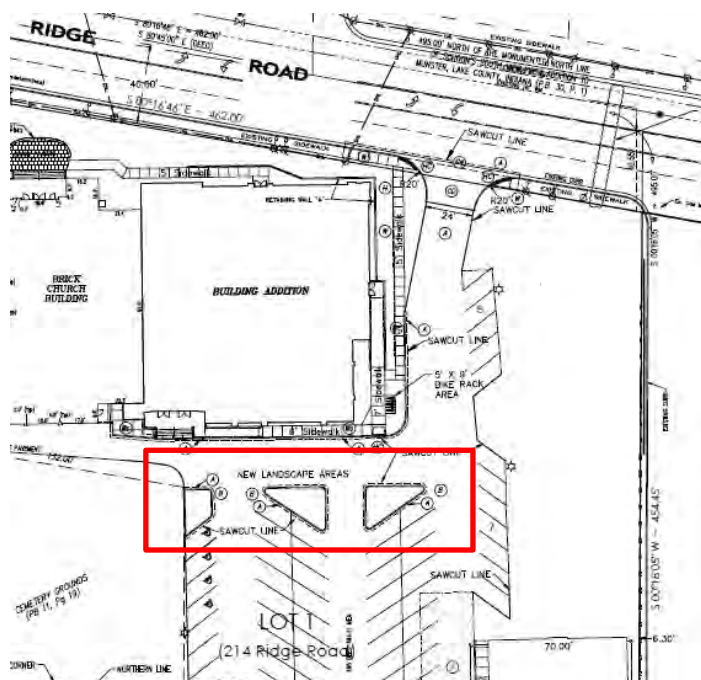


Figure 9 Location of new landscape islands.



2. SECTION 26-6.405.O.1.h.vii.l.2) Interior parking rows shall be terminated at both ends with landscape islands.

**Required:** Landscape islands are required to be installed in existing parking lots when a new building is constructed, but the requirement can be waived if they can't be installed without removing required parking spaces. In this case, there are 18 existing areas at the ends of parking rows that can be converted from asphalt to landscape islands.

**Proposed:** Three new landscape islands are proposed south of the building addition.

3. SECTION 26-6.405.O.1.h.vii.l.7) For every 2,000 square feet of Parking Area or Parking Lot, at least one Tree shall be installed or preserved within the Parking Area or Parking Lot except to the extent that Trees outside of the Lot containing the Parking Area or Parking Lot are allowed to satisfy this requirement as set forth below. ) Trees outside of the Parking Area or Parking Lot located within twenty feet (20') of the closest portion of such Parking Area or Parking Lot, including but not limited to Trees within Thoroughfare Rights-of-Way and Civic Spaces, may be counted toward satisfying the requirements.

**Required:** Trees are required to be installed in and along existing parking areas when a new building is constructed, but the requirement can be waived if they can't be installed without removing required parking spaces. The total number of trees within the parking area or within 20 feet of the parking area must be no less than 1 for every 2,000 square feet of parking area.

**Proposed:** Staff counts 20 trees for the east parking area and 11 for the west parking area, but no calculation of the area of the parking lot is included to determine compliance.

4. SECTION 26-6.405.O.1.h.vii.l.8) 8) No parking space shall be more than seventy-two feet (72') from a Tree within the Lot, as measured from the center of the Tree to the nearest line demarcating the space.

**Required:** Trees are required to be installed in and along existing parking area when a new building is constructed, but the requirement can be waived if they can't be installed without removing required parking spaces.

**Proposed:** 9 new trees are proposed in the east parking area, but there appear to be parking spaces in both the east and west parking areas that are farther than 72 feet from a tree.

5. SECTION 26-6.405.S.2 2. Streetscape Repairs, Replacements & Improvements. Prior to the issuance of any Certificate of Occupancy for a Building or Improvement, the following Streetscape improvements, repairs, or replacements shall be provided by the Lot Owner with respect to each Building or Improvement and the Streetscape that Enfronts the applicable Lot:

...

- i. If there is no planter strip or plant well, planting accommodations shall be constructed along the entire Front Lot Line which planting accommodations shall match any existing planter strip or plant well Enfronting an Adjacent Lot, or if there is none, shall conform to Thoroughfare standards for the

- applicable District or Civic Zone, as set forth in Section 26-6.502 as if such Thoroughfare standards were applicable.
  - iii. If there is no Thoroughfare Tree within the Frontage Adjacent to the Lot, one or more Thoroughfare Trees shall be installed along the Front Lot Line, which Trees shall meet the tree shape, spacing, and size standards for the applicable District or Civic Zone as set forth in Section 26-6.502, as if such standards were applicable.
  - c. If there is not sufficient public right-of-way area for all or any of the required Streetscape repairs, replacements, or improvements as set forth in this Section 26-6.405.S, such element or elements shall be provided within the Lot Adjacent to the public right-of-way and the property owner shall grant a perpetual non-exclusive easement for public use of such elements.

**Required:** The planting strip adjacent to the sidewalk should include shade trees planted 30 feet on center. Depending on the spacing, this would require approximately 14 shade trees.

**Proposed:** 6 new trees are proposed.

## VARIANCE STANDARDS

The variance process is established to provide relief to a property owner when, due to unique circumstances, compliance with the zoning code imposes a hardship or practical difficulty on a property owner. The BZA is under no obligation to grant a variance. It is the petitioner's responsibility to prove a hardship or practical difficulty. The BZA should ask the petition to address the criteria listed below.

Sec. 26-6.804.I of the Munster Zoning Code states that the basis for a variance is as follows:

### g. General Standards.

A Variance may be granted only if the Decision-Making Authority has made the following determinations for such Variance:

- i. the practical difficulties or unnecessary hardships that would be incurred by strict application of the Use or Development standard, as applicable, are unique and not shared by all properties in the vicinity and are not self-imposed;
- ii. such Variance is the minimum Variance that will relieve such practical difficulties or unnecessary hardships, as applicable;
- iii. such Variance is in the spirit of the general purposes and intent of this Article as stated in Division 1; and
- iv. such Variance is so designed as to provide reasonable consideration to, among other things, the character of the neighborhood, District, or Civic Zone, the conservation of property values in the vicinity, and the guidance of Development in accordance with the Comprehensive Plan.

### h. Specific to Development standards Variances:

A Variance from Development Standards may be approved or approved with conditions only if:

- i. it will not be injurious to the public health, safety, morals, and general welfare of the community;
- ii. the use and value of the area Adjacent to the property included in the Variance will not be affected in a substantially adverse manner; and
- iii. the strict application of the Development standards will result in practical difficulties in the use of the property.

**The applicant has addressed these criteria in the attached application.**

#### **RECOMMENDATION**

The Board of Zoning Appeals may wish to consider the following motion:

*Motion to schedule a public hearing for BZA Docket No. 22-006.*



Petition BZA \_\_\_\_\_

Date: \_\_\_\_\_

Application Fee: \$ 450.00

Sign Fee: \$ \_\_\_\_\_

**Town of Munster Board of Zoning Appeals Petition Application**

**OWNER INFORMATION:**

Munster Church, Inc.	(219) 836-1400
Name of Owner	Phone Number
214 Ridge Road, Munster, IN 46321	paul.kats@outlook.com
Street address, City, ST, ZIP Code	Email address

**APPLICANT OR PETITIONER INFORMATION (if different than above):**

Paul Kats, Authorized Agent	(630) 415-8276
Name of Applicant/Petitioner	Phone Number
214 Ridge Road, Munster, IN 46321	paul.kats@outlook.com
Street address, City, ST, ZIP Code	Email address

**PROPERTY INFORMATION:**

Munster Church, Inc.	
Business or Development Name (if applicable)	
214 Ridge Road, Munster, IN 46321	
Address of Property or Legal Description	Current Zoning

**APPLICATION INFORMATION:**

Please select what this Application is for:

- ☒ Variance      If yes, select one of the following:      ☐ Use    ☒ Developmental Standards
- ☐ Conditional Use
- ☐ Administrative Appeal

**Brief Description of Project and List of Variances or Conditional Uses Being Requested (if applicable):**

\*\*\* SEE ATTACHED \*\*\*

Torrenge Engineering, Inc.	(219) 836-8918
Name of Registered Engineer, Architect or Land Surveyor	Phone Number
907 Ridge Road, Munster, IN 46321	don.torrenge@torrenge.com
Street address, City, ST, ZIP Code	Email address



## DEVELOPMENTAL VARIANCE CONDITIONS OF APPROVAL

The Munster Board of Zoning Appeals is authorized to hear petitions for developmental standards variances and to approve or deny. The Board of Zoning Appeals may also impose reasonable conditions and restrictions. Indiana Code 36-7-4-918.5 lists the legal criteria for a developmental standards variance:

1. The approval will not be injurious to the public health, safety, morals, and general welfare of the community. Explain why this statement is true in this case:

Munster Church, Inc. has been a fixture of the community for over 150 years.

The parking lot has existed on the site in its present form since the late

1970's. The landscape for the Church has been upgraded and is always kept

in pristine condition.

2. The use and value of the area adjacent to the property included in the variance will not be affected in a substantially adverse manner. Explain why this statement is true in this case:

The neighborhood has not changed over the last 50 years.

There have been no complaints regarding the maintenance and upkeep of the  
Church property

3. The strict application of the terms of the zoning ordinance will result in practical difficulties in the use of the property. Explain why this statement is true in this case:

The church parking lot is limited to the existing site with no room for

expansion. The loss of parking spaces will cause undo hardship for the Parishioners.

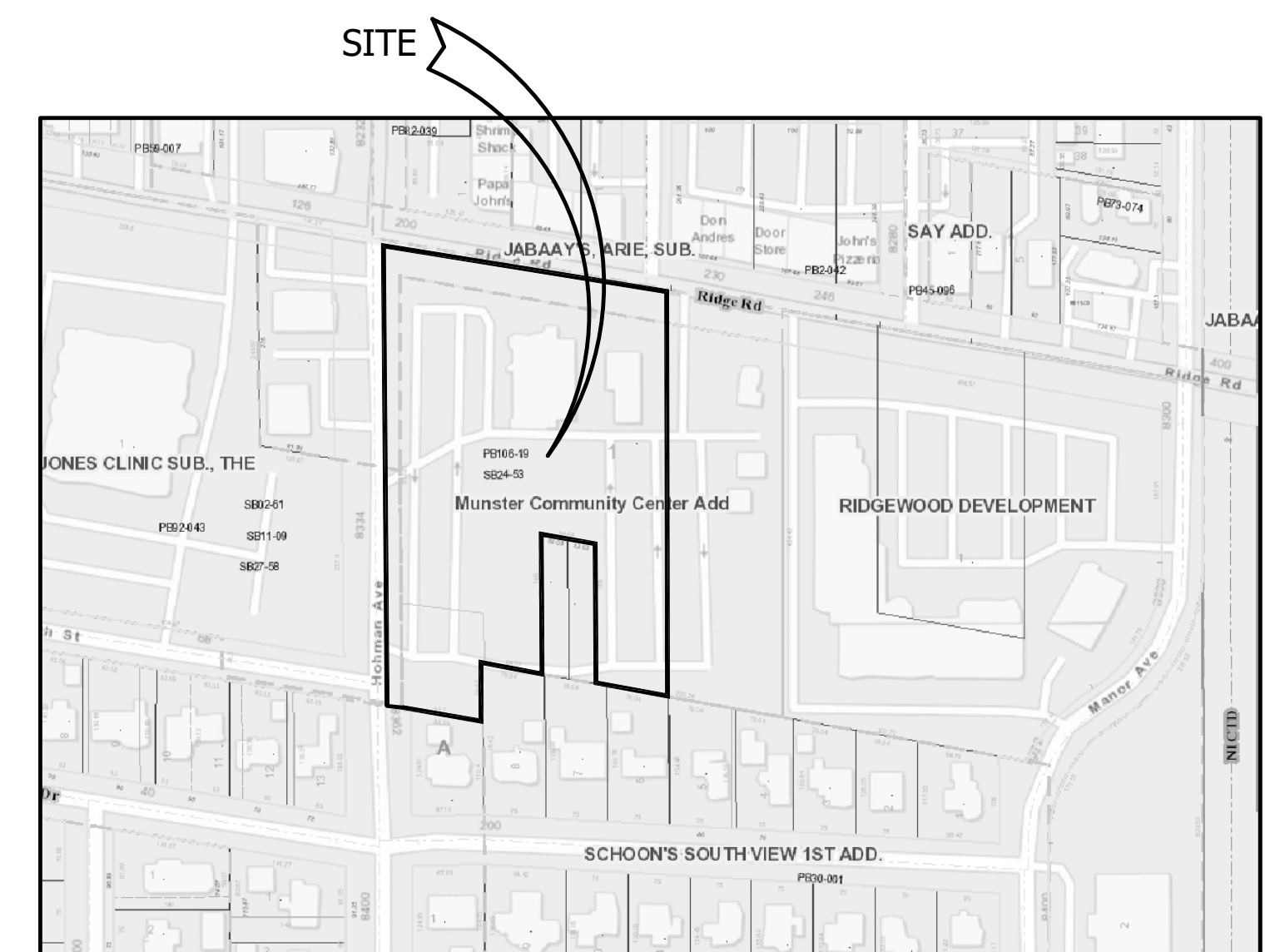
***Attach additional pages if necessary***

MUNSTER CHURCH  
BUILDING ADDITION, 214 RIDGE ROAD

INDEX	
PAGE	DESCRIPTION
COVER	TITLE PAGE
C-1.0	EXISTING TOPOGRAPHY & UTILITIES
C-1.1	DEMOLITION PLAN
C-2.0	SITE PLAN
C-3.0	UTILITIES PLAN
C-4.0 TO C-4.1	DETAILS AND SPECIFICATIONS
C-5.0	STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
C-6.0 TO C-6.1	SWPPP DETAILS & SPECIFICATIONS
1 OF 1	LANDSCAPING PLAN

DESCRIPTION:

LOT 1, MUNSTER COMMUNITY CENTER ADDITION, A PLANNED UNIT DEVELOPMENT IN THE TOWN OF MUNSTER, LAKE COUNTY, INDIANA AS RECORDED IN PLAT BOOK 106, PAGE 19 IN THE OFFICE OF THE RECORDER OF LAKE COUNTY, INDIANA



VICINITY MAP

NOT TO SCALE

 NORTH

- NOTES:
1. TOTAL SITE AREA = 4.63± ACRES (201,737± S.F.)
  2. THIS PROPERTY IS LOCATED IN FLOOD ZONE "X" AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS PER FLOOD INSURANCE RATE MAP (FIRM) FOR LAKE COUNTY, INDIANA AND INCORPORATED AREAS, PANEL 117 OF 480, MAP NUMBER 180B9C0117E, EFFECTIVE DATE JAN. 18, 2012.
  3. DEVELOPER:  
MUNSTER CHURCH  
214 RIDGE ROAD  
MUNSTER, INDIANA 46321
  4. ALL VERTICAL DATUM IS BASED ON NAVD88.
  5. HYDROLOGIC UNIT CODES: 07120003030060 LITTLE CALUMET RIVER - INDIANA/ILLINOIS LINE
  6. LOCATION:  
LATITUDE - 41°33'45" N  
LONGITUDE - 87°31'18" W
  7. CURRENT ZONING: CZ, CIVIC ZONE
  8. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING SITE CONDITIONS AND SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND ALL PROPOSED IMPROVEMENTS IN THE CONSTRUCTION DRAWINGS.
  10. A PRECONSTRUCTION CONFERENCE SHALL TAKE PLACE PRIOR TO ANY CONSTRUCTION WITH THE TOWN OF MUNSTER, CONTRACTOR AND REPRESENTATIVES OF MUNSTER CHURCH IN ATTENDANCE.



Know what's below.  
Call before you dig.

**"IT'S THE LAW"**  
CALL 2 WORKING DAYS BEFORE YOU DIG  
**811 or 1-800-382-5544**

CALL TOLL FREE  
PER INDIANA STATE LAW IC8-1-26.  
IT IS AGAINST THE LAW TO EXCAVATE  
WITHOUT NOTIFYING THE UNDERGROUND  
LOCATION SERVICE TWO (2) WORKING  
DAYS BEFORE COMMENCING WORK.

CLIENT/DEVELOPER:  
c/o Pastor Jim Hollendonner  
Munster Church  
214 Ridge Road  
Munster, Indiana 46321

ENGINEER:  
Torrenga Engineering, Inc.  
907 Ridge Road  
Munster, Indiana 46321  
(219) 836-8918

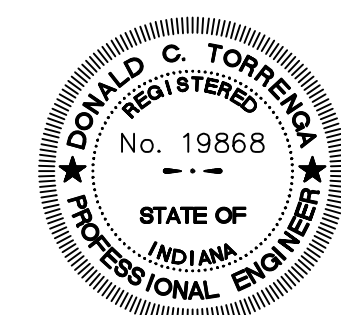
CERTIFIED BY: DONALD C. TORRENGA  
P.E. # 19868

## Date and Revisions:

2	06-06-2022	SECOND SUBMITTAL	DCT
1	04-22-2022	PRIMARY SUBMITTAL	DCT/EM
NO.	DATE	DESCRIPTION	BY

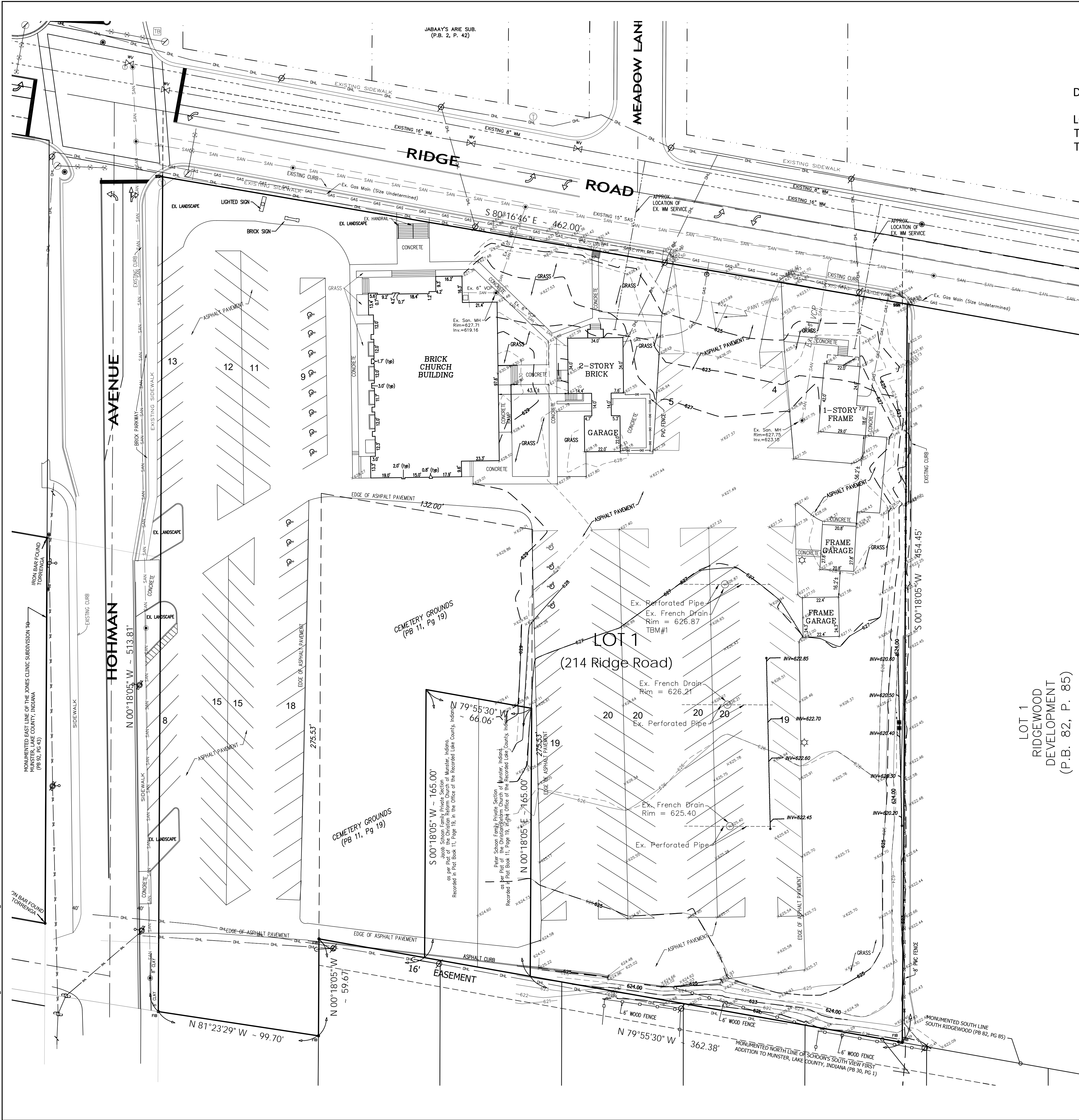
DRAWING SET PROGRESS:

- ☒ ENGINEERING PLAN  
- FOR REVIEW / APPROVAL
- ☐ FINAL ENGINEERING  
- FOR CONSTRUCTION



Donald C. Tuwenga





MUNSTER CHURCH  
~ TOPOGRAPHY & EXISTING UTILITIES ~

DESCRIPTION:  
LOT 1, MUNSTER COMMUNITY CENTER ADDITION, A PLANNED UNIT DEVELOPMENT IN THE TOWN OF MUNSTER, LAKE COUNTY, INDIANA AS RECORDED IN PLAT BOOK 106, PAGE 19 IN THE OFFICE OF THE RECORDER OF LAKE COUNTY, INDIANA

**LEGEND**  
EXISTING

— SAN — SAN — SAN — SAN —  
— ST — ST — ST — ST —  
— DFL — DFL — DFL —  
— GAS — GAS — GAS — GAS — GAS — GAS —

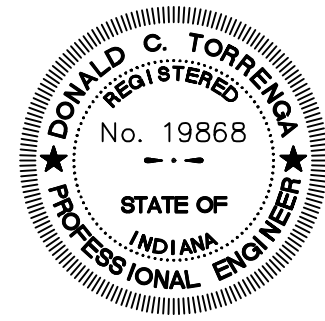
WATER MAIN  
WATER VALVE  
FIRE HYDRANT  
SANITARY SEWER  
SANITARY MH  
STORM SEWER  
STORM MH/CB/INL  
GRADES  
STREET LIGHT  
CONTOUR  
OVERHEAD ELECTRIC & TELEPHONE WIRES  
UNDERGROUND GAS LINES

- NOTE:
- THE EXISTING TOPOGRAPHY WAS TAKEN FROM TOPOGRAPHIC SURVEYS PERFORMED BY TORRENGA SURVEYING, LLC, 907 RIDGE ROAD, MUNSTER, IN 46321
  - ALL VERTICAL DATUM IS BASED ON NAVD 88.
  - THE LOCATION OF EXISTING WATER MAIN SERVICE LINES TO BE VERIFIED BY THE CONTRACTOR.

EXISTING PARKING SPACE COUNT

STANDARD SPACES = 217  
HANDICAP SPACES = 11  
TOTAL PARKING SPACE COUNT = 228

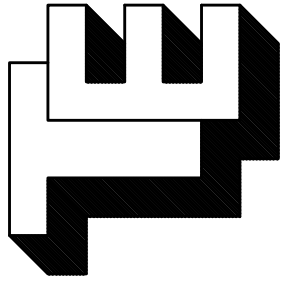
BENCHMARK TABLE		
BENCHMARK NUMBER	DESCRIPTION AND LOCATION	ELEVATION
1	N. RIM EXISTING DRAINAGE STRUCTURE IN EAST PARKING LOT	626.87
2	N. RIM EXISTING DRAINAGE STRUCTURE IN EAST PARKING LOT	626.21
3	N. RIM EXISTING DRAINAGE STRUCTURE IN EAST PARKING LOT	625.40



Donal C. Torrence



( IN FEET )  
1 inch = 30 ft.



**TORRENGA ENGINEERING, INC.**  
CONSULTING ENGINEERS & LAND SURVEYORS  
907 RIDGE ROAD, MUNSTER, INDIANA 46321  
Tel. No.: (219) 836-8918  
website: [www.torrenga.com](http://www.torrenga.com)

**MUNSTER CHURCH**  
214 RIDGE ROAD, MUNSTER, IN 46321

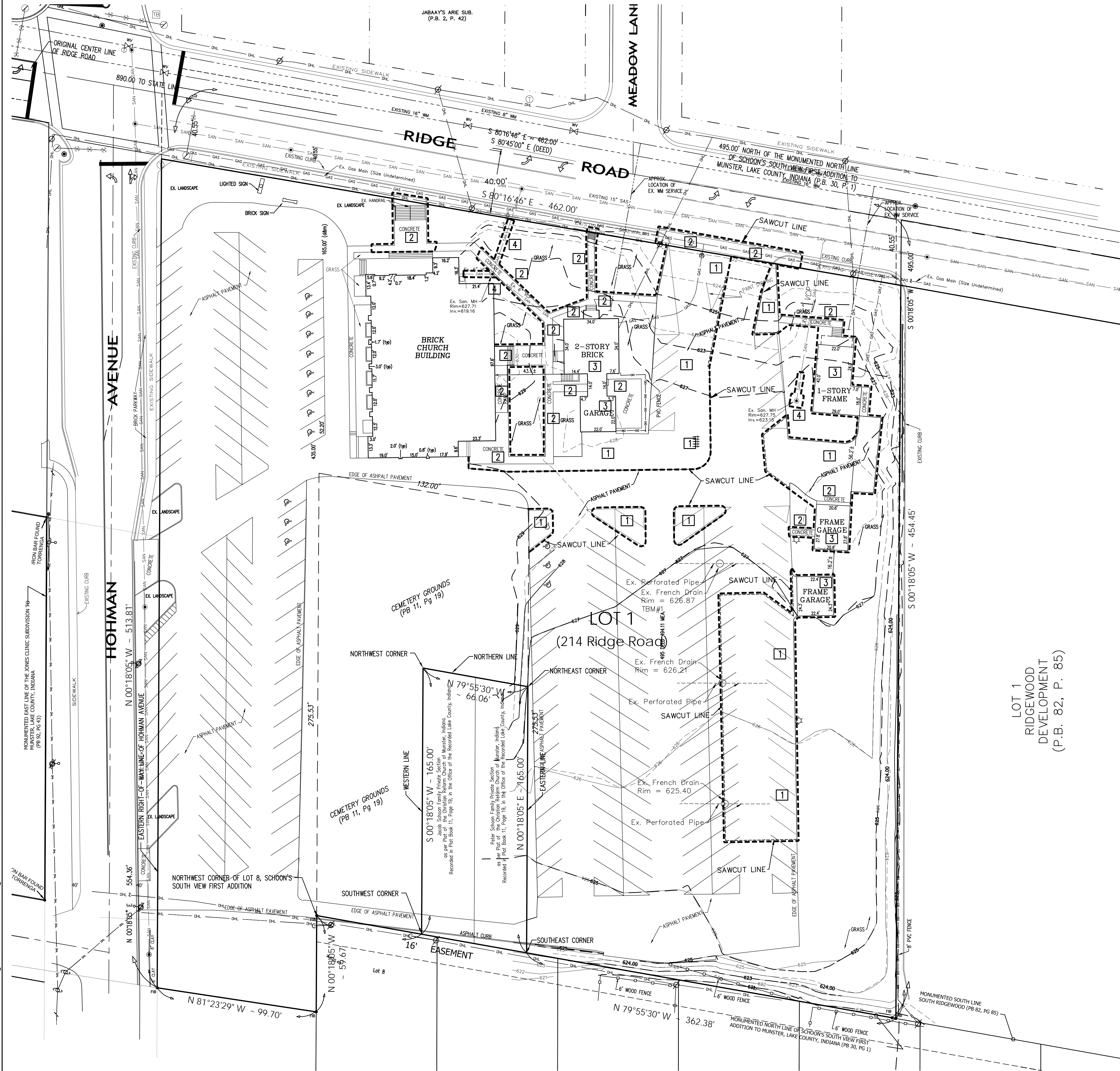
**TOPOGRAPHY & EXISTING UTILITIES**

CLIENT:  
c/o Pastor Jim Hollendoner  
Munster Church  
214 Ridge Road  
Munster, IN 46321

JOB NO: 2022-5015  
SCALE: 1"=30'

REVISIONS:  
06-06-2022  
DATE: 04-22-2022

SHEET  
C-1.0

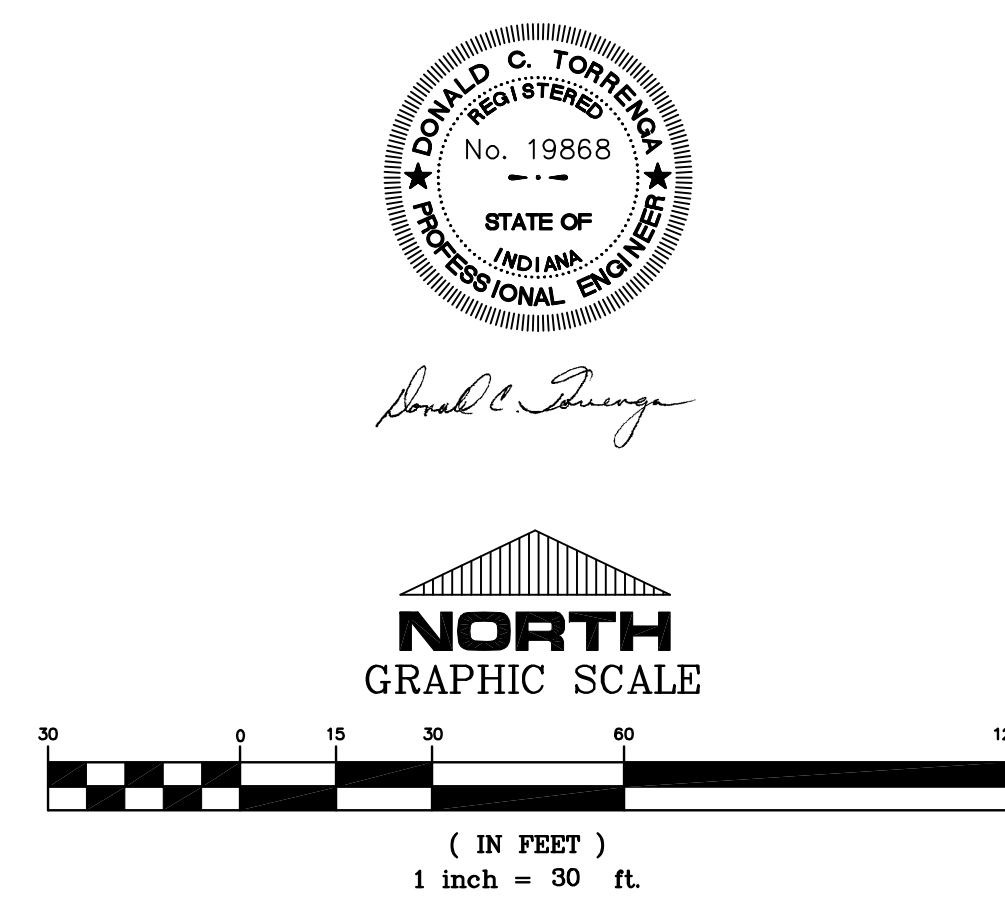


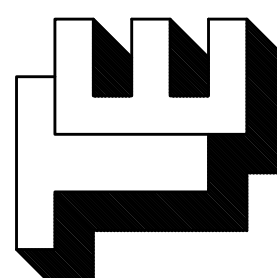
# MUNSTER CHURCH ~ DEMOLITION PLAN ~

- DEMOLITION NOTES
- 1 REMOVE ASPHALT PAVEMENT
  - 2 REMOVE CONCRETE PAVEMENT/SIDEWALK/CURB/STEPS
  - 3 REMOVE STRUCTURE
  - 4 REMOVE MH & PIPE

THE CONTRACTOR SHALL REMOVE ALL FENCES, TREES AND SHRUBS THAT INTERFERE WITH THE PROPOSED BUILDING AND PARKING LOT IMPROVEMENTS.

- NOTES:
1. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING SITE CONDITIONS AND SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND ALL PROPOSED IMPROVEMENTS IN THE CONSTRUCTION DRAWINGS.
  2. THE CONTRACTOR SHALL REMOVE THE EXISTING WATER SERVICE, SANITARY SERVICE AND STORM SERVICE (IF EXISTING) TO THE RESIDENTIAL HOMES BEING DEMOLISHED. THE DISCONNECT SHALL BE DONE IN ACCORDANCE WITH THE DIRECTION OF THE TOWN OF MUNSTER PUBLIC WORKS AND WATER DEPARTMENT.
  3. ALL SERVICE LINES (ELECTRIC, GAS AND CABLE TV) SHALL BE DISCONNECTED AND REMOVED. THE METHOD OF REMOVAL SHALL BE MADE IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY.
  4. THE CONTRACTOR SHALL REMOVE ALL FENCES, TREES AND SHRUBS THAT INTERFERE WITH THE PROPOSED BUILDING AND PARKING LOT IMPROVEMENTS.
  5. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL FOUNDATIONS AND SHALL BACKFILL AND COMPACT ANY BASEMENT AREAS WITH ACCEPTABLE STRUCTURAL FILL MATERIAL.





**TORRENGA ENGINEERING, INC.**  
CONSULTING ENGINEERS & LAND SURVEYORS  
907 RIDGE ROAD, MUNSTER, INDIANA 46321  
Tel. No.: (219) 836-8918  
website: [www.torrenga.com](http://www.torrenga.com)

**MUNSTER CHURCH**  
214 RIDGE ROAD, MUNSTER, IN 46321

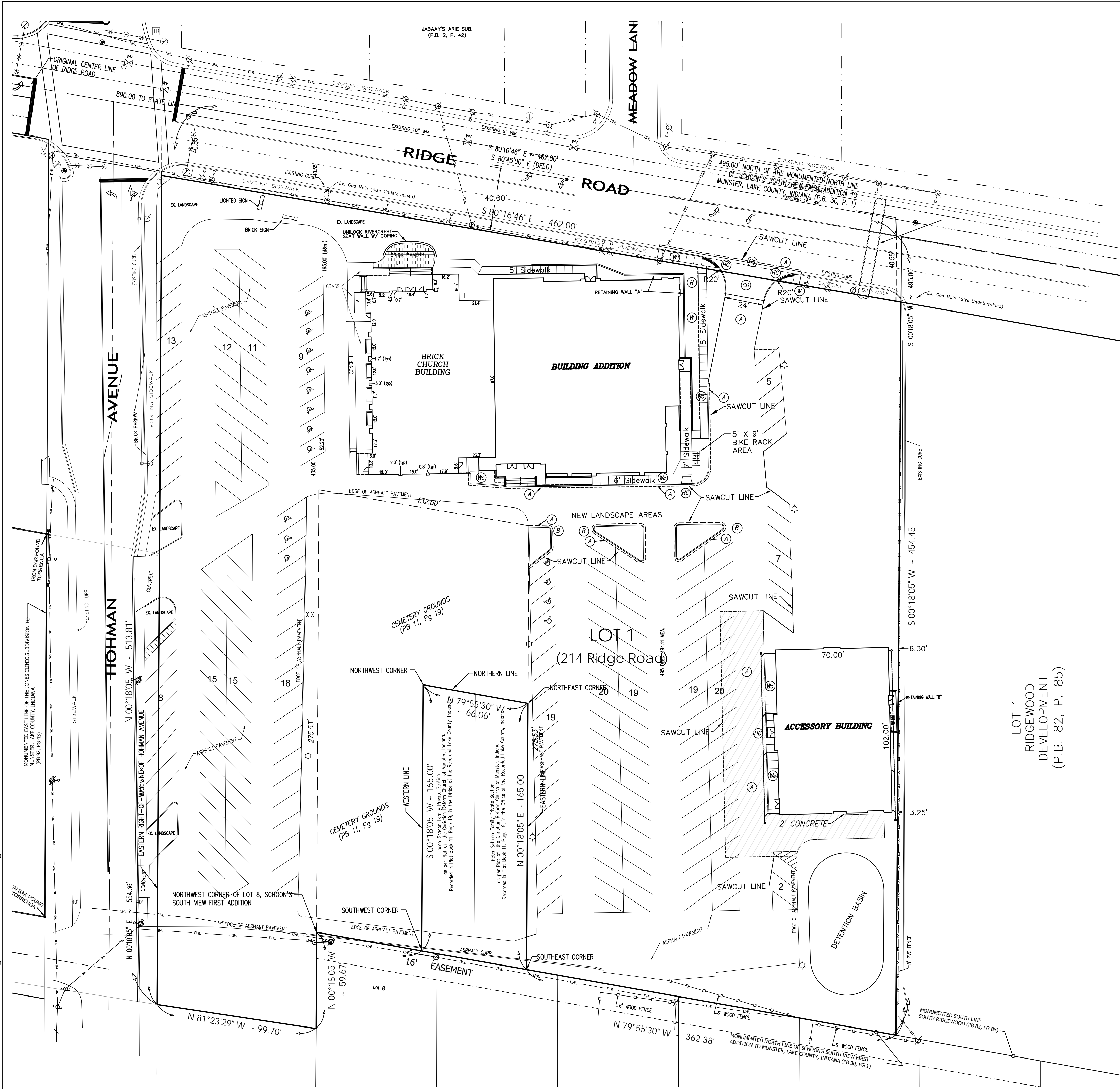
**DEMOLITION PLAN**

CLIENT:  
c/o Pastor Jim Hollendoner  
Munster Church  
Munster, IN 46321

JOB NO: 2022-5015  
SCALE: 1"=30'

SHEET  
C-1.1





MUNSTER CHURCH  
~ SITE PLAN ~

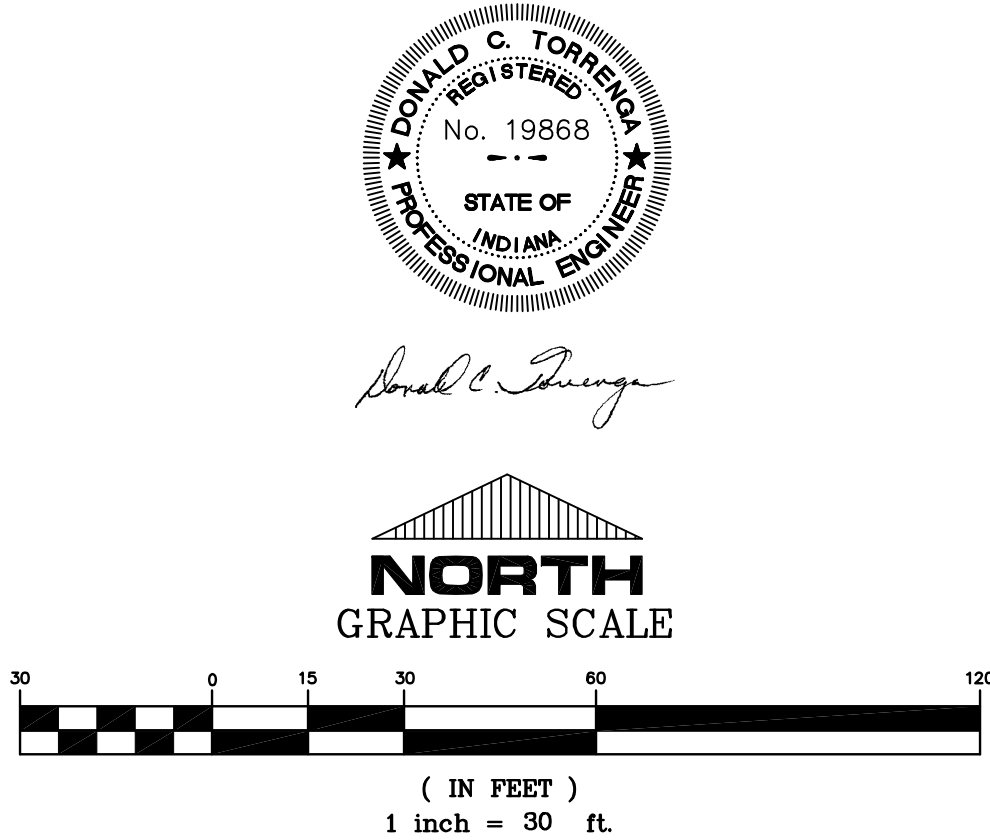
LEGEND:

- (A) PROPOSED ASPHALT PAVEMENT /PAVEMENT PATCH
- (B) BARRIER CURB
- (HC) HANDICAP ACCESS
- (W) CONCRETE SIDEWALK
- (Wc) CONCRETE SIDEWALK & CURB
- (CD) CONCRETE DRIVE APPROACH
- (Cg) CONCRETE CURB GUTTER SECTION
- (H) HAND RAIL/ RAILING
- PROPOSED STREET LIGHT
- PROPOSED ASPHALT

NOTES:  
1. NEW ACCESSORY BUILDING ROOF PITCH TO BE 8:12

EXISTING PARKING SPACE COUNT	REQUIRED PARKING SPACE COUNT
STANDARD SPACES = 217 HANDICAP SPACES = 11 TOTAL PARKING SPACE COUNT = 228	SANCTUARY: 409 SEATS / 3 = 136 PARKING SPACES
PROPOSED PARKING SPACE COUNT	MULTI PURPOSE-ROOM: 222 SEATS / 3 = 74 PARKING SPACES
STANDARD SPACES = 196 HANDICAP SPACES = 15 TOTAL PARKING SPACE COUNT =211	TOTAL PARKING SPACE COUNT = 210

- HANDICAP RAMP NOTES:
- ALL EXISTING HANDICAP RAMPS THAT ARE NOT ADA COMPATIBLE SHALL BE REMOVED AND REPLACED.
  - ALL SIDEWALK/PATH CROSSINGS REQUIRE DETECTABLE WARNING ELEMENTS WITH ADA COMPLIANT RAMPS TO BE INSTALLED.



MUNSTER CHRISTIAN REFORMED CHURCH  
214 RIDGE ROAD, MUNSTER, IN 46321

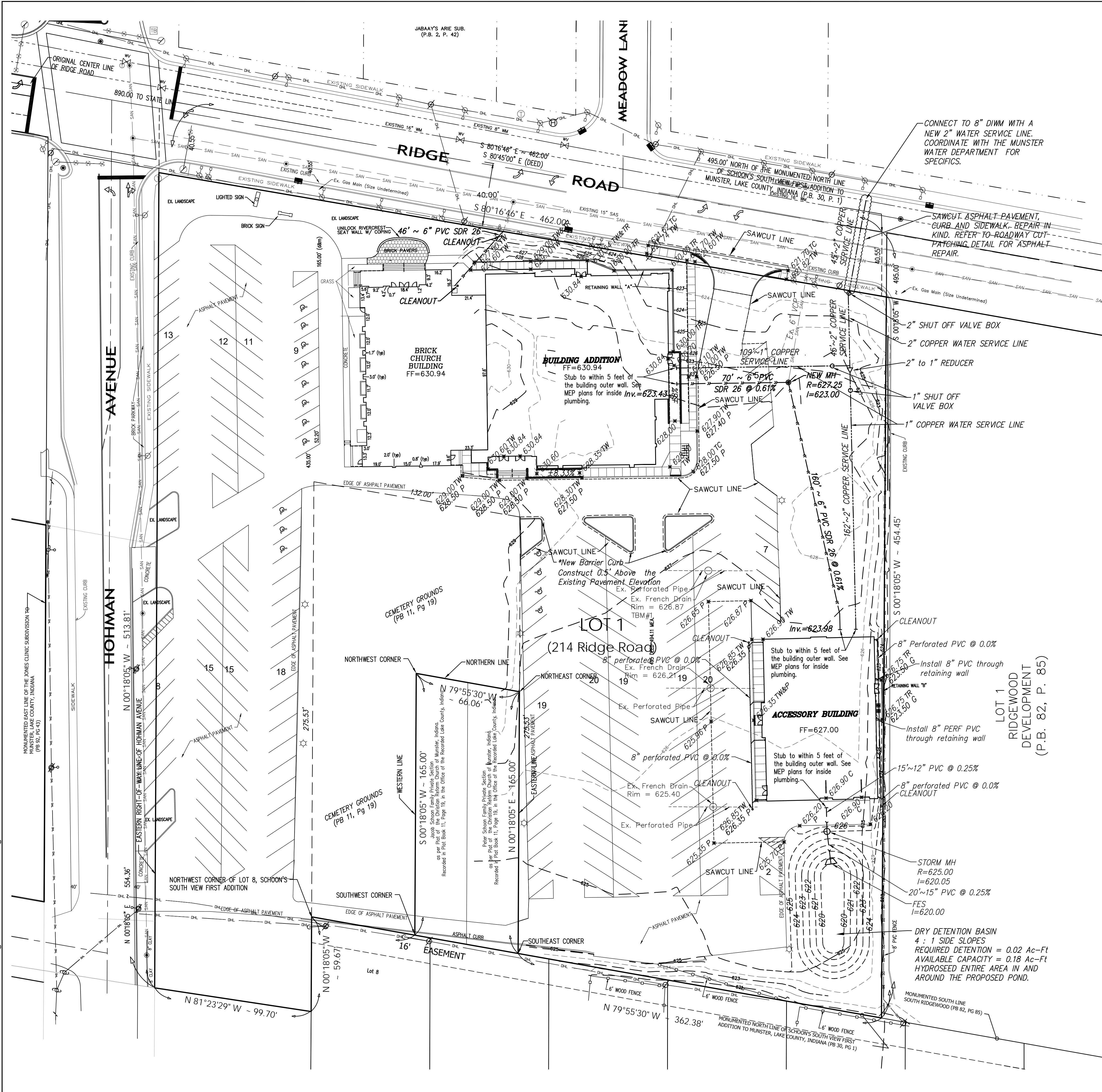
TORRENGA ENGINEERING, INC.  
CONSULTING ENGINEERS & LAND SURVEYORS  
907 RIDGE ROAD, MUNSTER, INDIANA 46321  
Tel. No.: (219) 836-8918  
website: www.torrenge.com

SITE PLAN

CLIENT:  
c/o Pastor Jim Hollendoner  
Munster Church  
214 Ridge Road  
Munster, IN 46321  
JOB NO: 2022-5015  
SCALE: 1"=30'

SHEET  
C-2.0

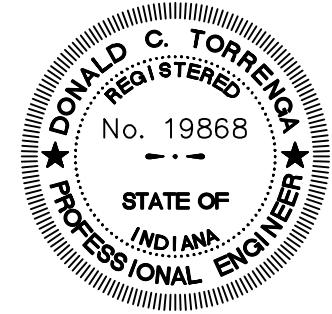




# MUNSTER CHURCH ~ UTILITIES PLAN ~

LEGEND EXISTING		WATER MAIN
		WATER VALVE
		FIRE HYDRANT
		SANITARY SEWER
		SANITARY MH
		STORM SEWER
		STORM MH/CB/INL
		GRADES
		STREET LIGHT
		CONTOUR
		OVERHEAD ELECTRIC & TELEPHONE V
		UNDERGROUND GAS LINES
LEGEND PROPOSED		WATER MAIN
		STREET LIGHT
		SANITARY SEWER
		SANITARY MANHOLE
		STORM SEWER
		STORM MH/CB/INL
		DRAINAGE ARROWS
		GRADES
		CONTOUR
		TW TOP OF WALK
		TC TOP OF CURB
		TR TOP OF RETAINING WALL
		P PAVEMENT
		C CONCRETE
		G GROUND

- NOTES:
1. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING SITE CONDITIONS AND SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND ALL PROPOSED IMPROVEMENTS IN THE CONSTRUCTION DRAWINGS.
  2. THE CONTRACTOR SHALL REMOVE THE EXISTING WATER SERVICE, SANITARY SERVICE AND STORM SERVICE (IF EXISTING) TO THE RESIDENTIAL HOMES BEING DEMOLISHED. THE DISCONNECT SHALL BE DONE IN ACCORDANCE WITH THE DIRECTION OF THE TOWN OF MUNSTER PUBLIC WORKS AND WATER DEPARTMENT.
  3. ALL SERVICE LINES (ELECTRIC, GAS AND CABLE TV) SHALL BE DISCONNECTED AND REMOVED. THE METHOD OF REMOVAL SHALL BE MADE IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY.
  4. THE CONTRACTOR SHALL REMOVE ALL FENCES, TREES AND SHRUBS THAT INTERFERE WITH THE PROPOSED BUILDING AND PARKING LOT IMPROVEMENTS.
  5. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL FOUNDATIONS AND SHALL BACKFILL AND COMPACT ANY BASEMENT AREAS WITH ACCEPTABLE STURCTURAL FILL MATERIAL.
  6. THE CONTRACTOR SHALL REFER TO THE SITE LIGHTING PLAN PREPARED BY KSA LIGHTING FOR PROPOSED LIGHTING.
  7. THE CONTRACTOR SHALL REFER TO THE LANDSCAPING PLAN PREPARED BY K&D LANDSCAPE FOR PROPOSED LANDSCAPE.
  8. THE CONTRACTOR SHALL TELEWISE THE EXISTING 6" SANITARY LATERAL CONNECTION TO DETERMINE ITS CONDITION.
  9. EXISTING WATER MAIN SERVICE LATERALS ARE TO BE CAPPED AT THE MAIN WITH A FORD ABANDONED CORPORATION CAP AFTER THEY HAVE BEEN REMOVED.



MUNSTER CHRISTIAN REFORMED CHURCH  
214 RIDGE ROAD, MUNSTER, IN 46321

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907 RIDGE ROAD, MUNSTER, INDIANA 46321  
Tel. No.: (219) 836-8918  
website: [www.torrengea.com](http://www.torrengea.com)

CLIENT: c/o Pastor Jim Hollendoner Munster Church 214 Ridge Road Munster, IN 46321	JOB NO: 2022-5015 REVISIONS: DATE: 04-22-2022	SCALE: 1"=30'
SHEET C-3.0		

FILE NO: 21-2022-5015 MCRC.dwg 2022-5015 Details.dwg 6/6/2022 4:06:26 PM CDT

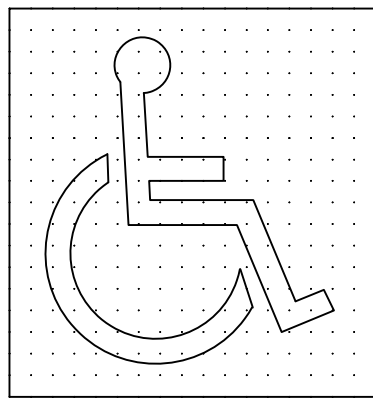


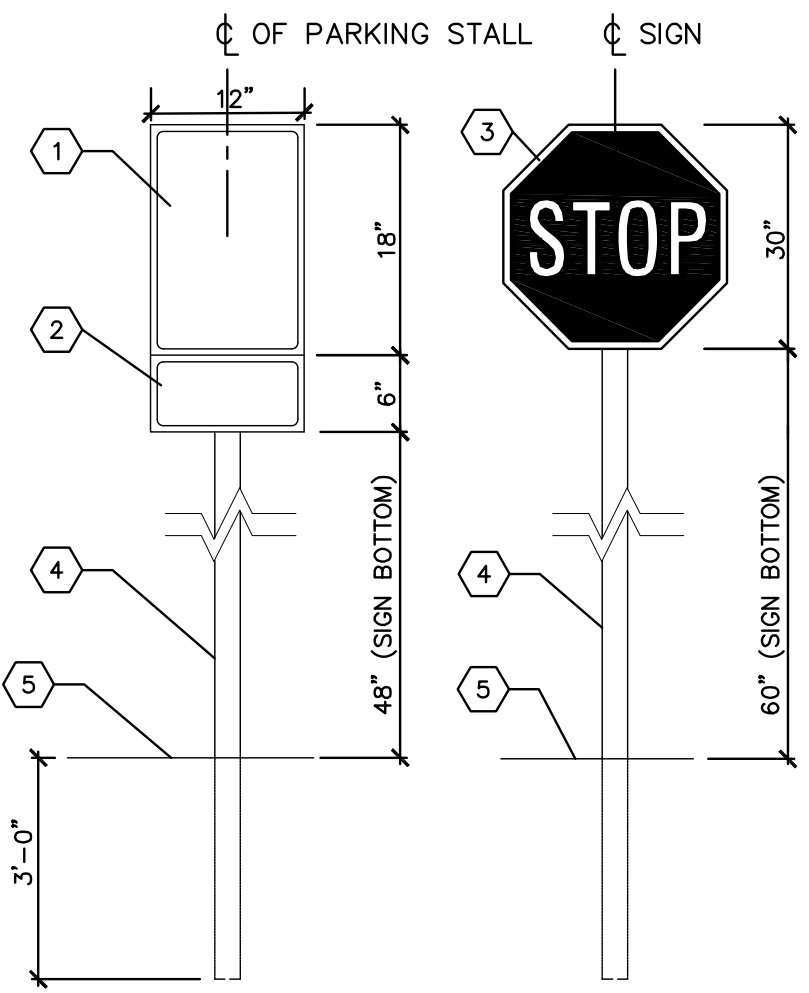
Figure 43a  
INTERNATIONAL SYMBOL OF  
ACCESSIBILITY PROPORTIONS

NOT TO SCALE



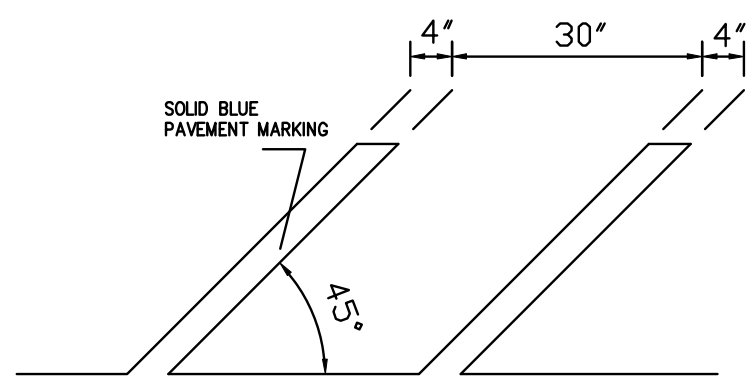
ACCESSIBILITY SIGNAGE

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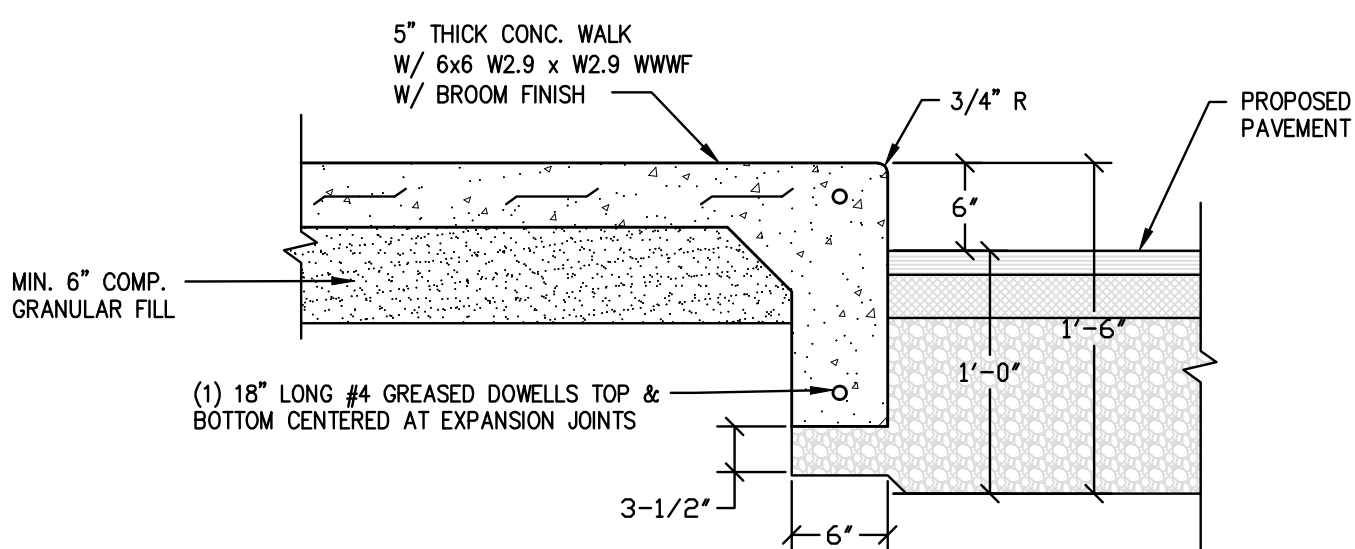
SIGN AND POST (FREE STANDING)

NOT TO SCALE



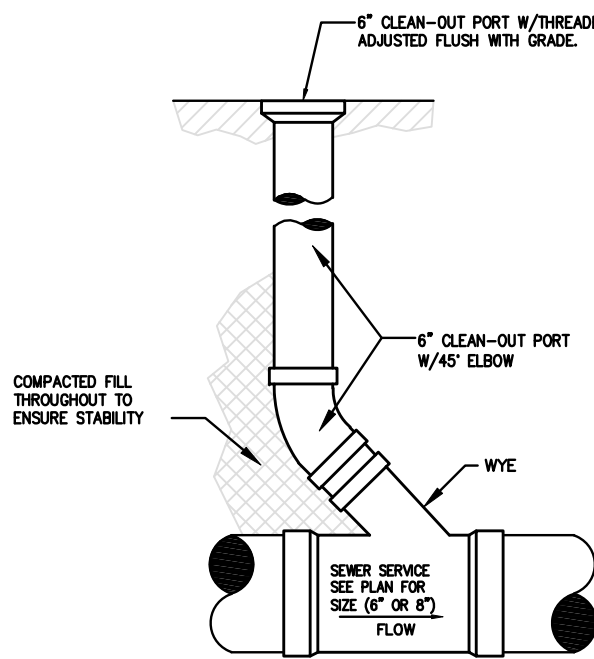
ACCESSIBILITY AND PARKING  
STRIPING DETAIL

NOT TO SCALE



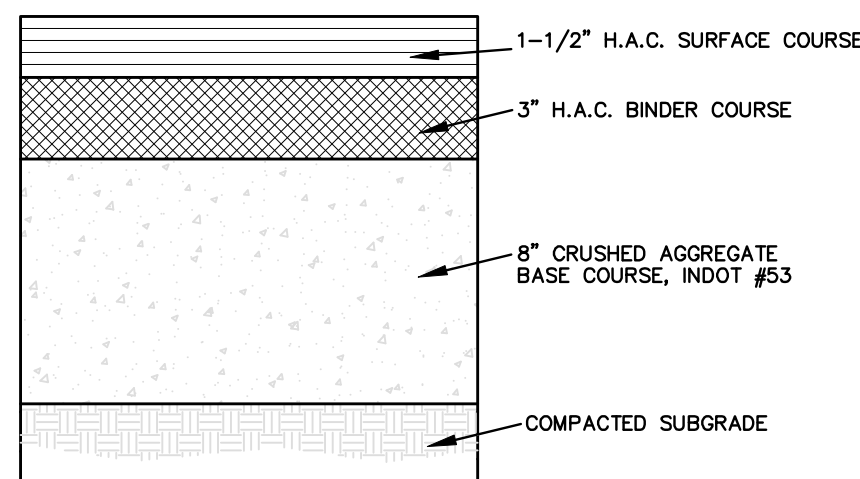
CURB-WALK SECTION

NOT TO SCALE



CLEAN-OUT

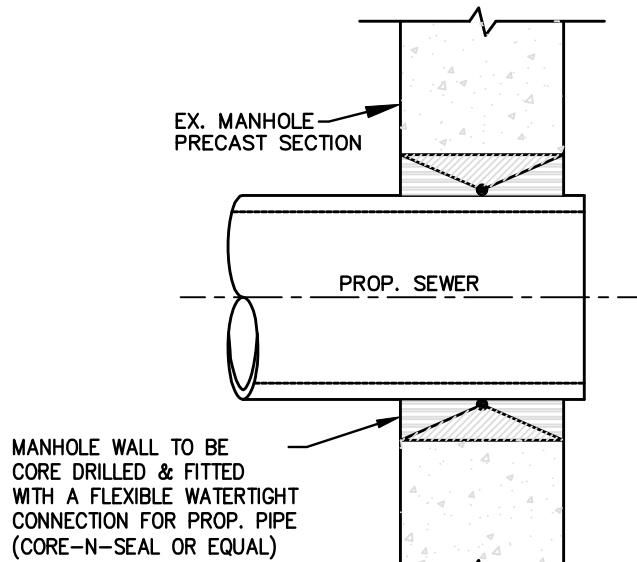
NOT TO SCALE



NOTES:  
1. PAVEMENT & AGGREGATE THICKNESS IS BASED UPON A CBR RATIO OF 3 AS  
DETERMINED IN THE SOIL BORING LOGS  
2. WHERE FILL IS REQUIRED, SUBGRADE SHALL BE COMPACTED TO 95% OF  
THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 METHOD OF  
TESTING.

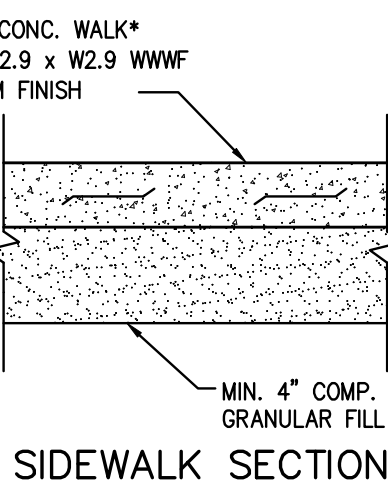
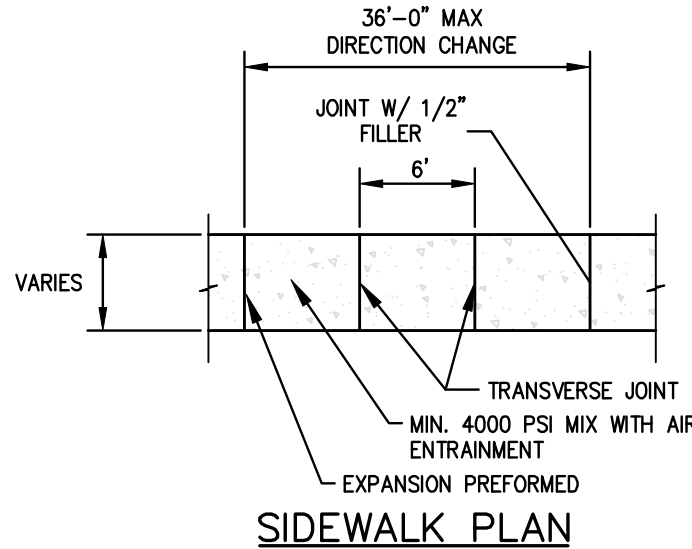
TYPICAL PAVEMENT  
SECTION

NOT TO SCALE



PIPE CONNECTION DETAIL  
TO EXISTING MANHOLE

NOT TO SCALE



TYPICAL  
SIDEWALK DETAIL

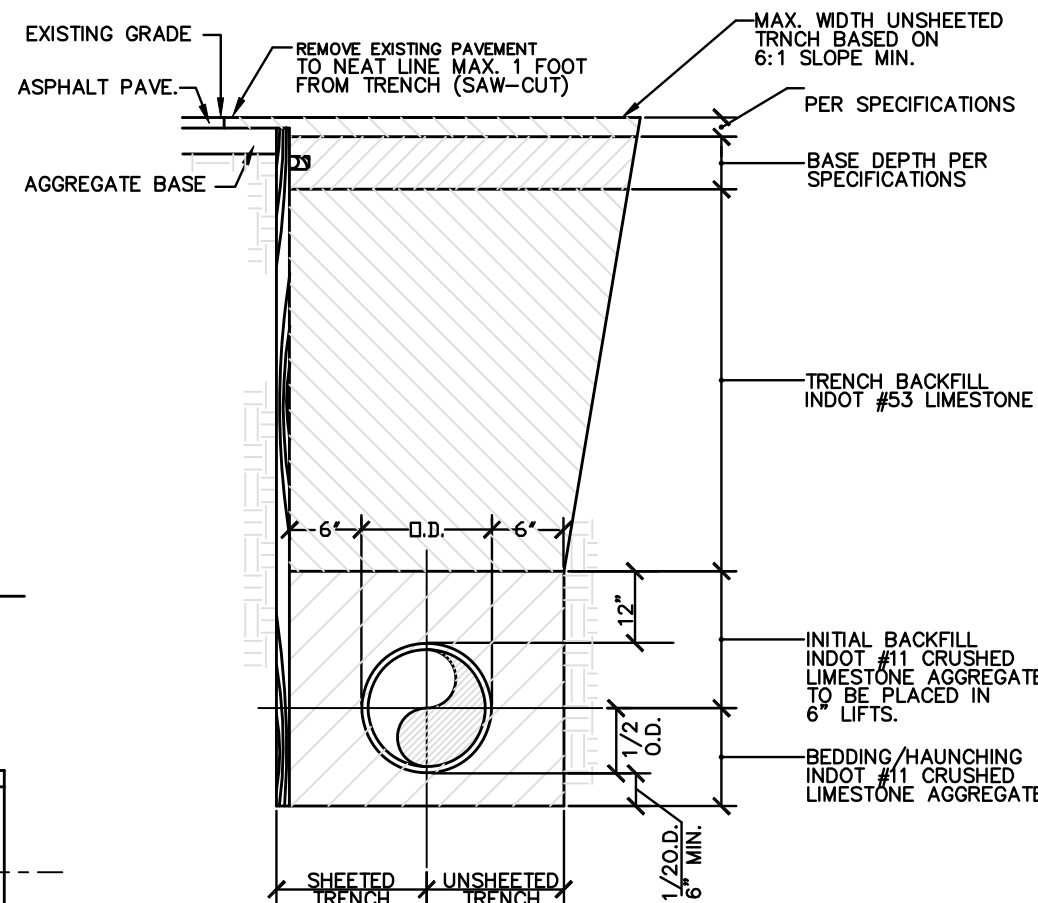
NOT TO SCALE

\*Note: Sidewalks crossing driveways to be  
7\"/>

NOT TO SCALE

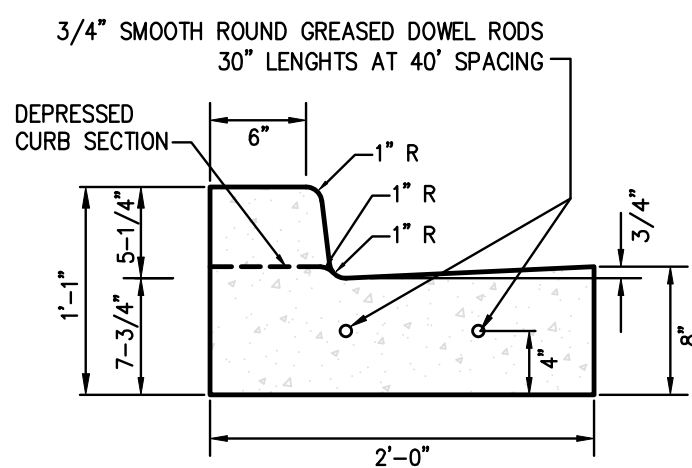
PIPE BEDDING DETAIL  
FOR TRENCH IN PAVED AREAS

NOT TO SCALE



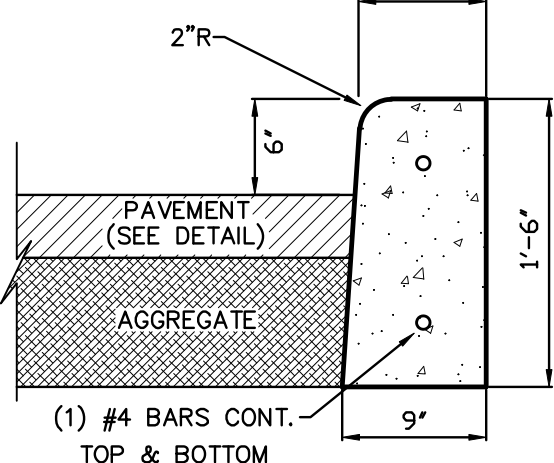
PIPE BEDDING DETAIL  
FOR TRENCH IN PAVED AREAS

NOT TO SCALE



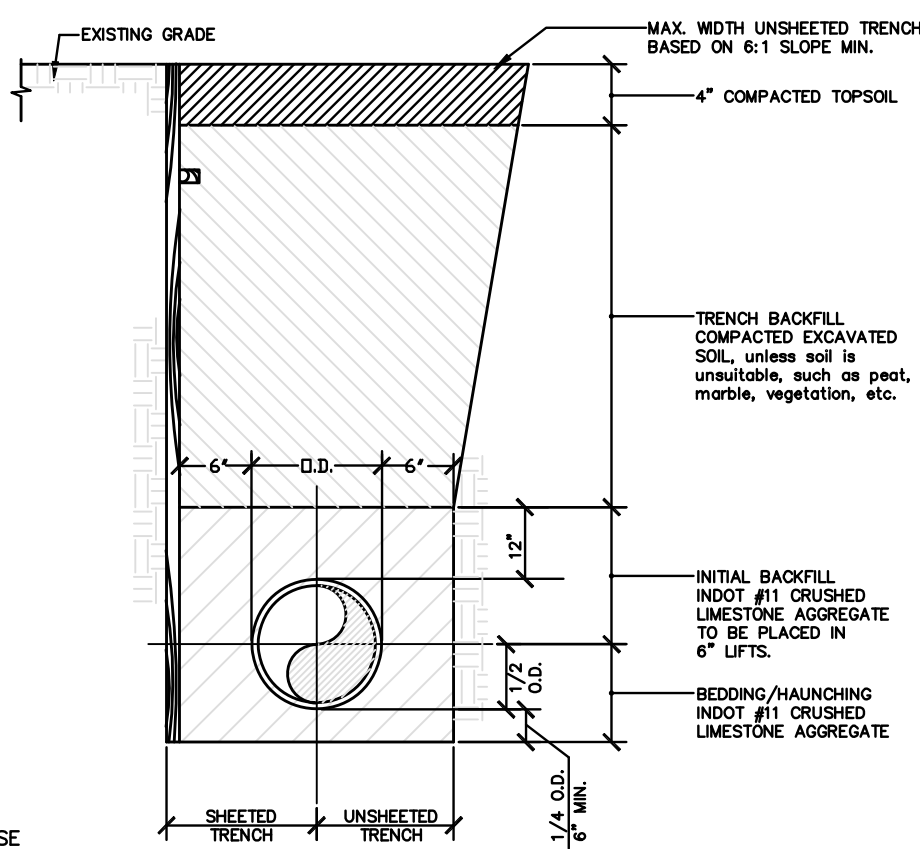
COMBINED CONCRETE HIGH-BACK  
CURB AND GUTTER

NOT TO SCALE



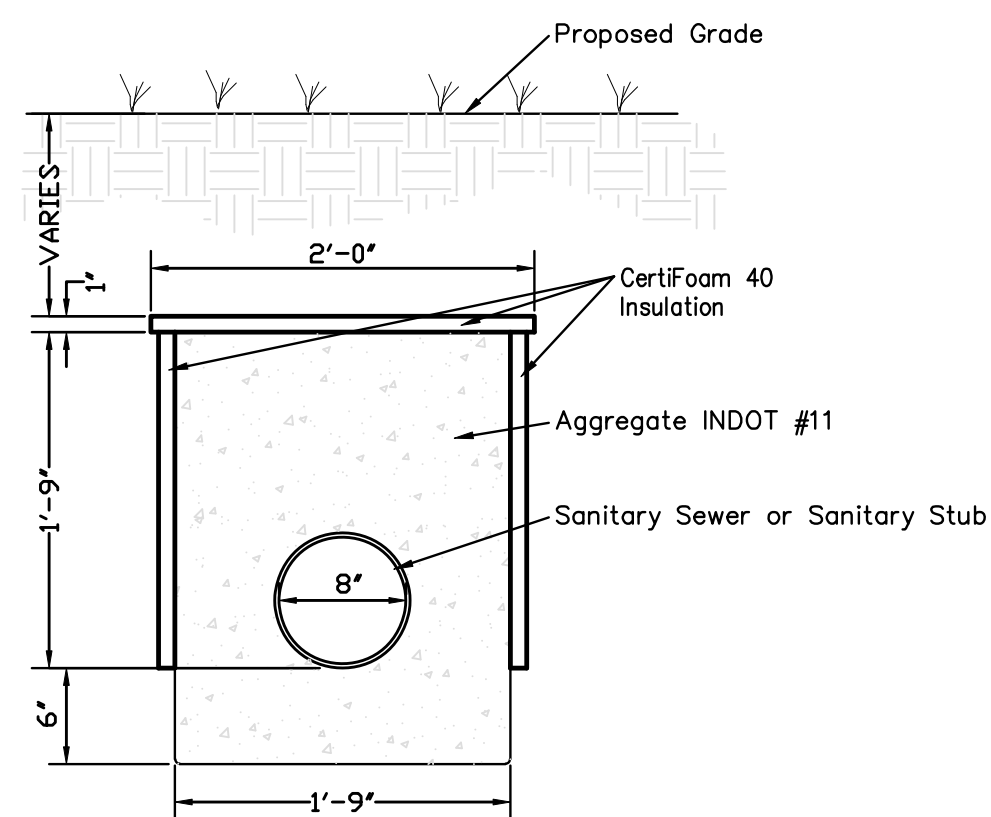
BARRIER CURB DETAIL

NOT TO SCALE



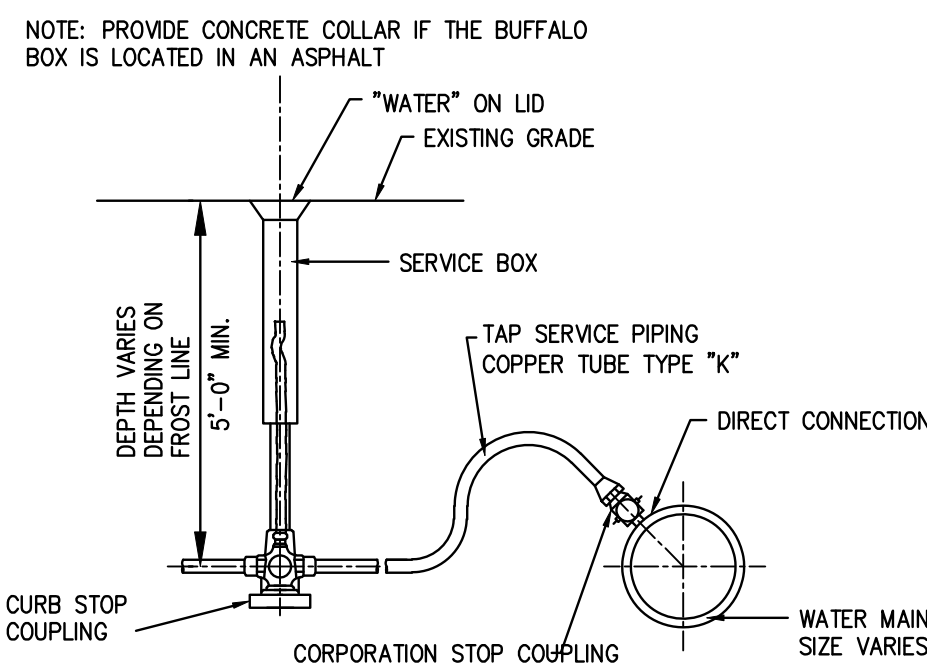
PIPE BEDDING DETAIL  
FOR TRENCH IN GRASS AREAS

NOT TO SCALE



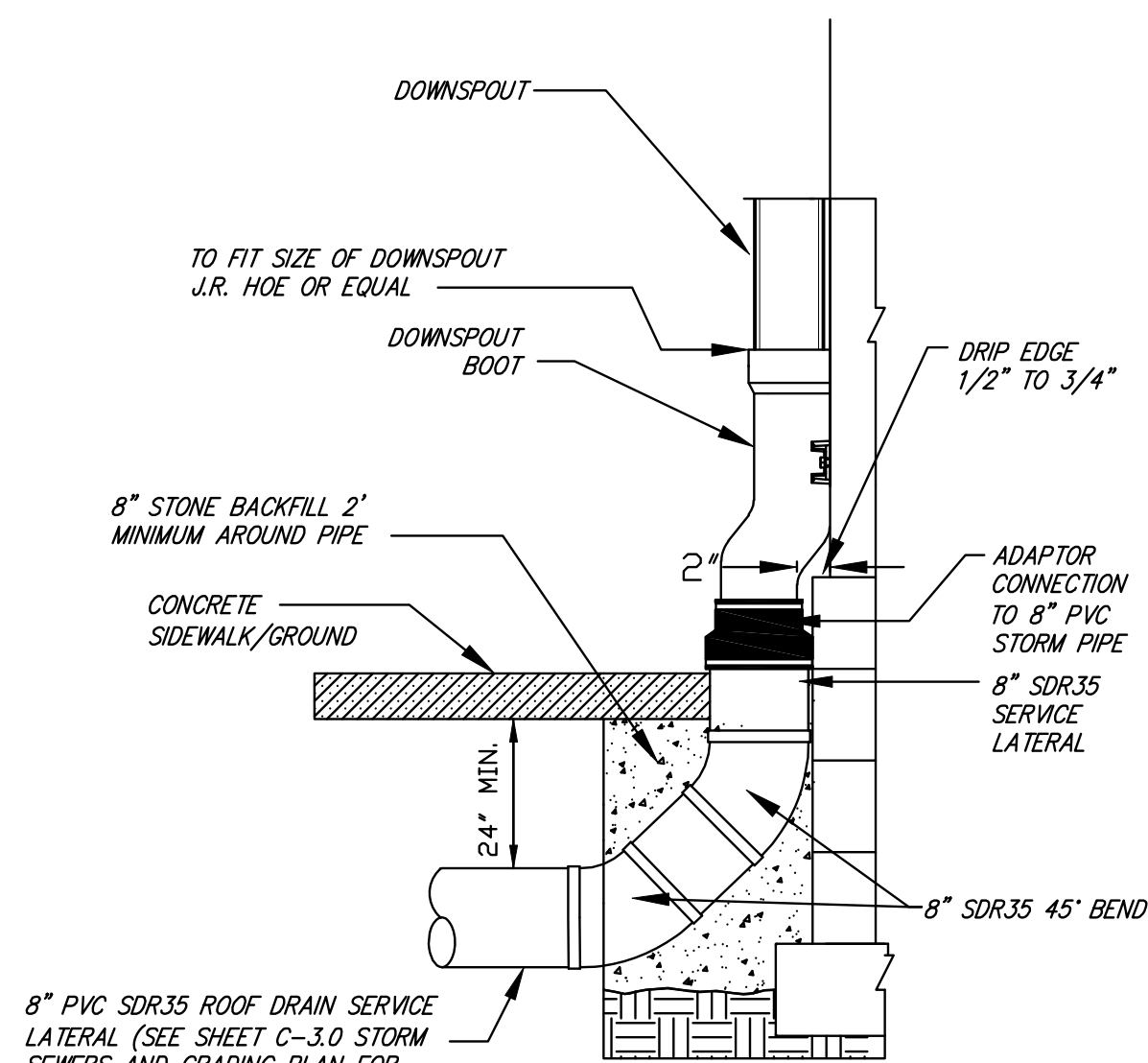
SANITARY PIPE INSULATION DETAIL

NOT TO SCALE



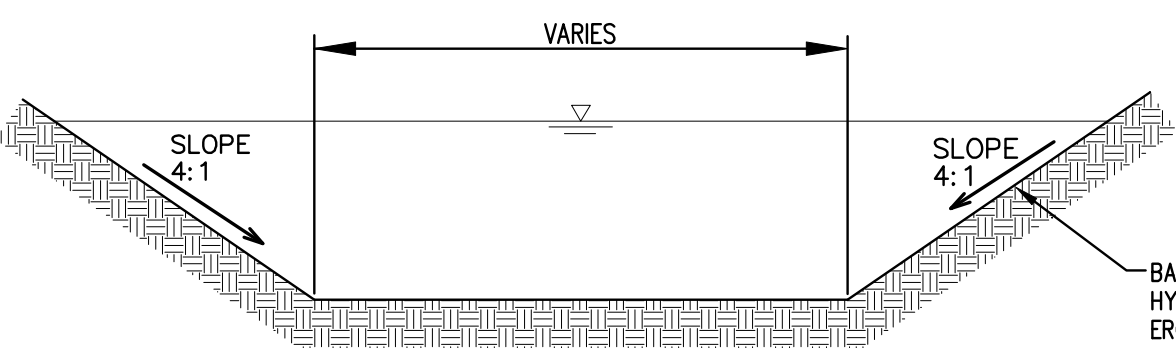
TYPICAL WATER TAP SERVICE PIPING

NOT TO SCALE



(DOWN SPOUT)  
ROOF DRAIN PIPE CONNECTION

NOT TO SCALE



DETENTION AREA  
CROSS-SECTION

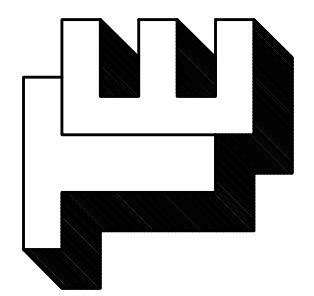
NOT TO SCALE

BANKS SHALL BE GRADED &  
HYDROSEED TO PREVENT SOIL  
EROSION. A BIODEGRADABLE  
EROSION CONTROL BLANKET  
SHALL BE USED.



## SPECIFICATIONS FOR STORM SEWERS

1. All work shall be performed in accordance with the Codes, Ordinances and Standards of the Town of Munster, Lake County, Indiana.
2. All storm sewer pipe, branches and fittings shall conform to either of the following: (A) Poly-vinyl chloride SDR 35 (ASTM D-3034) with push on rubber gasket joints (ASTM C-3212 for pipe 15" in diameter or under or: (B) Extra strength vitrified clay pipe (ASTM C-700) with bell and spigot push-on rubber gasket joints (ASTM C-425) or: (C) Reinforced concrete pipe (ASTM C-76) with bell and spigot or tongue and groove push on mastic joints. Class V reinforced concrete pipe shall be used for lines 15" diameter or under and Class III shall be used for lines 18" and over.
3. Gasketed joints shall be used on all storm sewers.
4. Storm sewers 18" to 27" with less than 3' cover shall be Class IV pipe.
5. All storm sewer manholes shall be standard precast concrete units (ASTM C-478) conforming to the standard detail sheet of these plans.
6. All improvements installed across paved or future paved areas shall backfilled with sand or graded stone aggregate to the subgrade.
7. All sewers shall be laid at least 10 feet (3.0m) horizontally from any existing or proposed water main. The distance shall be measured edge to edge. All sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches (46 cm) between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to prevent damage to the water main. When it is impossible to obtain proper horizontal and vertical separation as stipulated above, the sewer shall be designed and constructed equal to water pipe.
8. The Contractor is responsible for the preparation of "As Built" construction drawings showing actual sizes and lengths of pipe installed (i.e. from manhole to manhole or tee to valve, etc.), location of service taps and any structures added or omitted in comparison with these engineering plans. The Contractor shall supply the Developer (through the Project Engineer) with one set of reproducible original "As-Built" and shall supply the Town of Munster with 2 copies thereof prior to and as a condition of final acceptance.
9. All infrastructure being constructed shall be in accordance with the Town of Munster Proposed Infrastructure Specifications. Any difference between Munster's Specification and these engineering drawings shall be brought to the attention of the Engineer immediately for review.
10. Dumped Rip-Rap will be provided at all end sections, to produce a surface of approximate regularity. The finished surface shall not vary by more than 9 inches and the depth of Rip-Rap shall not be less than 12 inches nor more than 24 inches.
11. No storm sewer manhole, catch basin and inlet shall be within eight (8) feet of a water main as measured from the outside edge of the storm sewer manhole, catch basin and inlet to the outside edge of the water main.



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website: www.torrenge.com

MUNSTER CHURCH  
214 RIDGE ROAD, MUNSTER, INDIANA  
DETAILS & SPECIFICATIONS

06-06-2022  
DATE: 04-22-2022

CLIENT:  
c/o Pastor Jim Hollendoner  
Munster Christian Ref. Church  
214 Ridge Road  
Munster, Indiana 46321  
JOB NO: 2022-5015  
SCALE: NTS

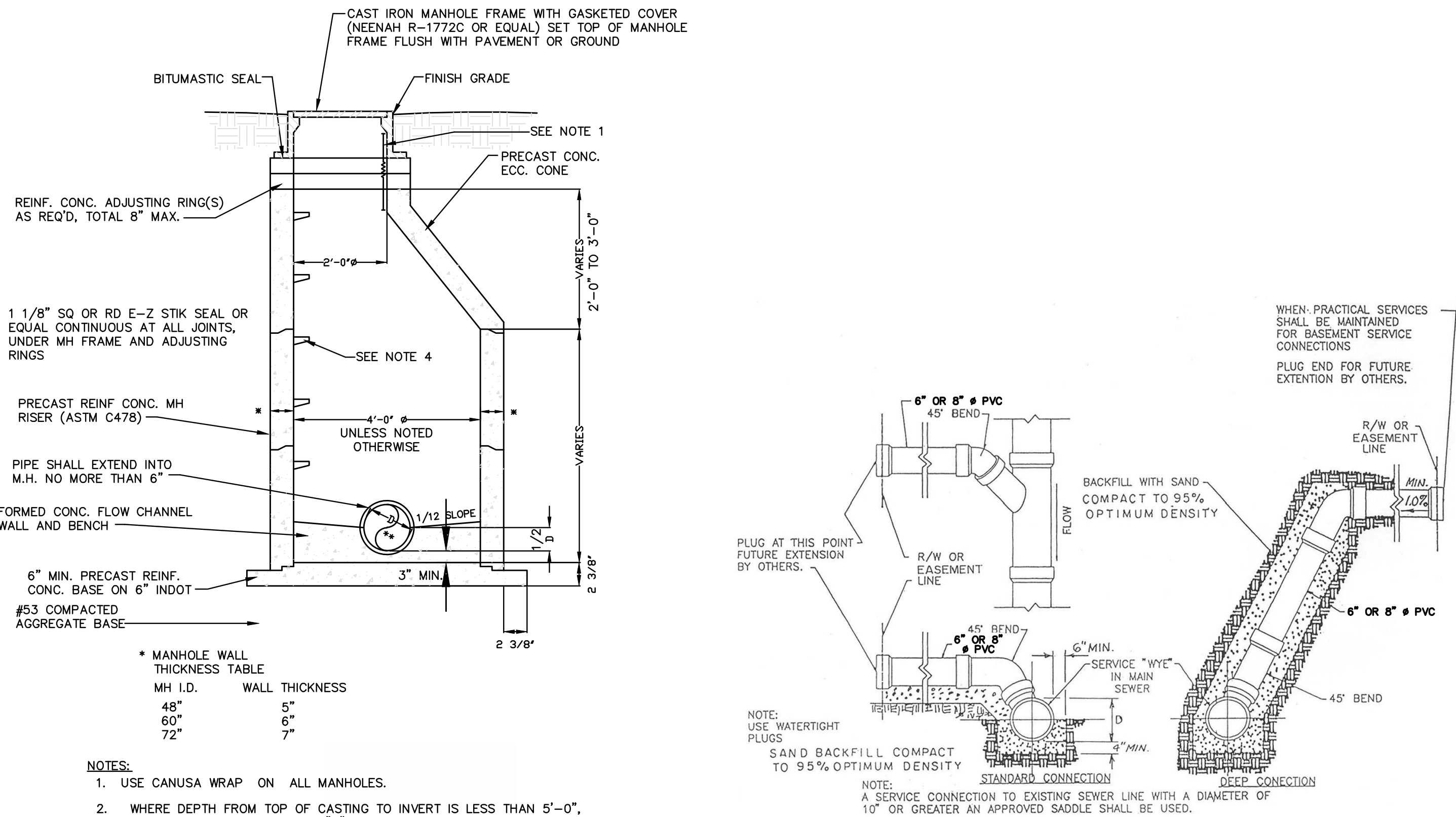
SHEET  
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RETAINING WALL 'B'

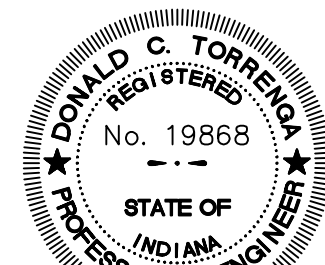
NOT TO SCALE

Technical drawing of a retaining wall cross-section. The wall is 6 feet high. The base is 12 feet wide, with a 2-foot-5-inch section on the left and a 1-foot-2-inch section on the right. The top of the wall is 8 feet wide. The ground elevation is 630.00 on the right and 624.00 on the left. The wall is made of 3000 PSI concrete. The backfill is suitable for backfill only. The wall has a 2-inch clearance on all rebar. The base has a 3/8 inch diameter hole. The wall is retaining wall 'A'.

[illegible]

NOT TO SCALE

NOT TO SCALE



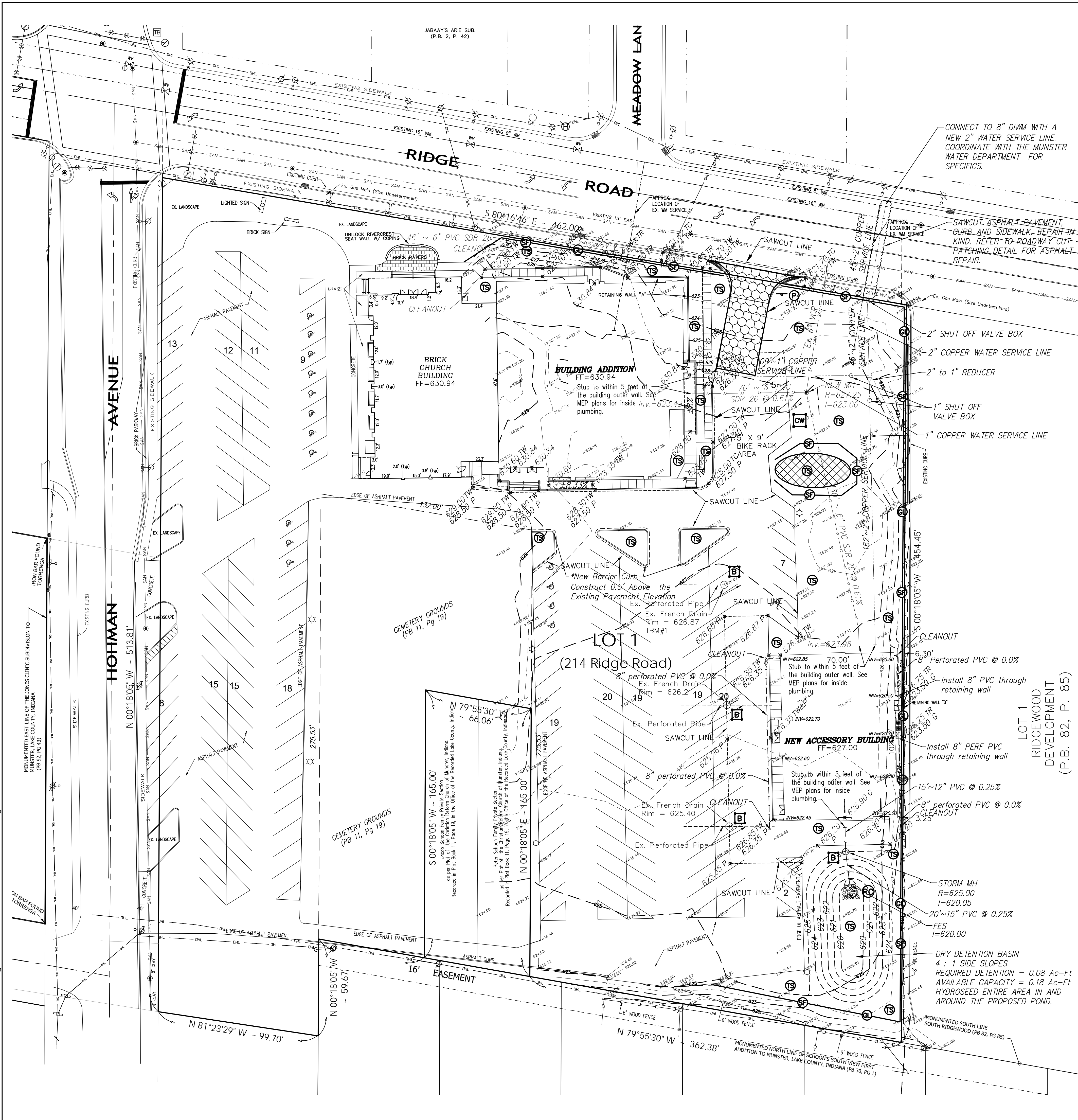
*Donald C. Tuenga*

Tel. No.: (219) 836-8918

## DETAILS & SPECIFICATIONS

SHEET  
C-4.1





# MUNSTER CHRISTIAN REFORMED CHURCH ~ SITE PLAN ~



SOIL MAP  
NOT TO SCALE



SOIL MAP LEGEND  
PIB - Plainfield fine sand, 0 to 6 percent slopes  
Mm - Maumee loamy fine sand, 0 to 1 percent slopes

WETLANDS MAP  
NOT TO SCALE



RESPONSIBLE INDIVIDUAL FOR SWPPP  
COMPANY: ROHN ASSOCIATES ARCHITECTS & PLANNERS  
NAME: TED ROHN  
ADDRESS: 13177 RHODE ST  
CEDAR LAKE, IN 46303  
PHONE: (781) 906-4670  
E-MAIL: TWR29@COMCAST.NET

## SWPPP LEGEND:

- TEMPORARY ENTRANCE/EXIT (GRAVEL OR MAT)
- SOIL STOCK PILE
- BASKET DROP INLET PROTECTION
- GRADE LIMITS
- SILT FENCE (SEDIMENT FENCE)
- CONCRETE WASH OUT AREA
- TEMPORARY SEEDING (SEE NOTE 12)
- POSTING RULE 5 NOI & NOS LETTERS AND LOCAL SWPPP PERMIT (SEE NOTE 14)
- ROCK CHUTE

VICINITY MAP  
NOT TO SCALE

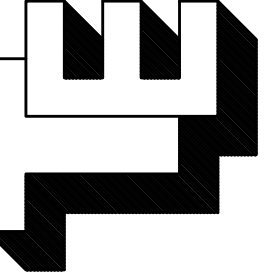
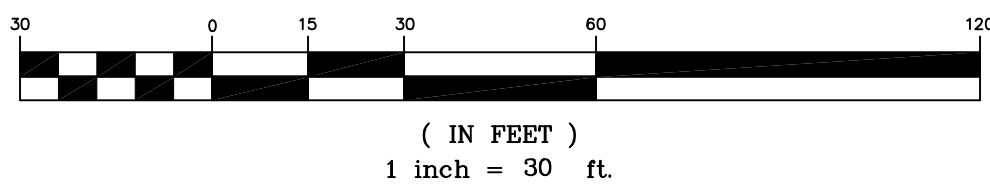


- NOTES:
- THIS PROPERTY IS LOCATED IN FLOODPLAIN ZONE "X". AREAS DETERMINED TO BE OUTSIDE OF THE 0.2 % ANNUAL CHANCE FLOODPLAIN. THERE ARE NO FLOODWAYS AND FLOODWAY FRINGES ON THIS PROPERTY, AS PER FLOOD INSURANCE RATE MAP (FIRM) DATED JANUARY 18, 2012 IN COMMUNITY PANEL NUMBERS 18089C 0109E & 18089C 0117E.
  - HYDROLOGIC UNIT CODE: 07120003030060 LITTLE CALUMET RIVER-INDIANA/ILLINOIS LINE 07120003030030 HART DITCH (PLUM CREEK)-DYER DITCH
  - STATE OR FEDERAL WATER QUALITY PERMITS ARE REQUIRED FOR THE PROJECT SITE.
  - AT PRESENT THE SITE IS A CHURCH, WITH EXISTING BUILDING, ASPHALT DRIVE AND PARKING, GRAVEYARD, AND WELL MANICURED LAWN.
  - THERE IS A PRESENCE OF HYDRIC SOILS ON THIS PROPERTY, Mm-MAUMEE LOAMY FINE SAND.
  - THERE ARE NO EXISTING WETLAND AREAS ON THIS PROPERTY, AND ITS SURROUNDING AREAS AS CLASSIFIED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR U.S. FISH AND WILDLIFE SERVICE, NATIONAL WETLANDS INVENTORY.
  - THE POTENTIAL SOURCE OF STORMWATER DISCHARGE ENTERING THE GROUNDWATER IS THROUGH NATURAL GROUND ABSORPTION.
  - SOIL STOCKPILES, BORROW AND DISPOSAL AREAS FOR THIS PROJECT ARE LOCATED WITHIN THE PROJECT SITE.
  - AREA WHERE THE PROPOSED BUILDING, STORM SEWERS, SANITARY SEWERS, WATER MAINS AND OTHER UTILITIES WILL BE DISTURBED DURING CONSTRUCTION, IN ALL OTHER AREAS, EXISTING VEGETATIVE COVER WILL BE PRESERVED.
  - AN EROSION CONTROL AND GEOSYNTHETIC MATERIAL SUPPLIES LIST IS AVAILABLE AT THE SCS OFFICE AND SHALL BE CONSULTED BEFORE PURCHASING THE REQUIRED EROSION CONTROL ITEMS.
  - PERMANENTLY SEED ALL FINE GRADE AREAS (e.g., LANDSCAPE BERMS, DRAINAGE BERMS, DRAINAGE SWALES, EROSION CONTROL STRUCTURES, ETC.) AS EACH IS COMPLETED AND ALL AREAS WHERE ADDITIONAL WORK IS NOT SCHEDULED FOR A PERIOD OF MORE THAN A YEAR. SEEDING: OPTIMUM SEEDING DATES ARE MARCH 1 - MAY 10 AND AUGUST 10 - SEPTEMBER 30. SEEDING DATES BETWEEN MAY 10 AND AUGUST 10, MAY NEED TO BE IRRIGATED. FOR SEEDING RECOMMENDATIONS SEE PRACTICE 3.12, INDIANA HANDBOOK FOR EROSION CONTROL.
  - A TREE CONSERVATION AND PROTECTION PLAN SHOULD BE IN PLACE TO INSURE SURVIVAL OF DESIRABLE TREES FROM THE EFFECTS OF COMPACTION, GRADING DAMAGE, WOUND PREVENTION AND A PLAN FOR TREE REPAIRS FROM CONSTRUCTION ACTIVITIES. SEE THE SOIL CONSERVATION SERVICE OR THE STATE FORESTER FOR ASSISTANCE.

## Temporary stabilization plans and sequence of implementation.

- On site posting of the complete Rule 5 NOI and NOS Letters. Location of the posting and plans shall be made available by the owner contractor.
- Installation of all erosion/sedimentation controls including stabilized construction entrance, silt fences, etc., per the engineering plans.
- Clearing and grubbing.
- All disturbed areas shall be permanent seeded, mulched, when no additional disturbance is anticipated.
- Topsoil stockpile surrounded with silt fencing.
- Rough cut and fill of all proposed detention areas and other major grading per the engineering plans shall be done to rough grades at start of construction to prevent excessive soil erosion due to construction.
- Construction of storm sewers, sanitary sewers, water mains, and other utility, and implementation of storm sewer inlet protection at each open-gate structure (fabric drop inlet protection, basket inlet protection, etc., as per engineering plans).
- Regrade and construct buildings.
- Complete permanent erosion control and restoration of site vegetation. Erosion control measures are to be removed upon permanent vegetative cover being established.

NOTES:  
1. FOR POST CONSTRUCTION STORM WATER POLLUTION PREVENTION, ALL AREAS DESIGNATED FOR TEMPORARY SEEDING SHALL BE PERMANENTLY SEED.



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website: www.torrengea.com

MUNSTER CHRISTIAN REFORMED CHURCH  
214 RIDGE ROAD, MUNSTER, IN 46321  
STORM WATER POLLUTION PREVENTION PLAN

REVISIONS:  
06-06-2022  
DATE: 04-22-2022

CLIENT:  
c/o Pastor Jim Hollendoner  
Munster Church  
214 Ridge Road  
Munster, IN 46321  
JOB NO: 2022-5015  
SCALE: 1"=30'

SHEET  
C-5.0







## ROCK CHUTE

**Purpose:** To protect slopes, stream banks and channels, which are subject to erosion. Where run off velocity is great, at the outlet pipe of a detention basin, channel or culvert.

### Requirements:

Rock: Hard angular, weather-resistant and well graded stone, the largest pieces should not exceed two times the specified stone diameter.

Thickness: 12" minimum or two times the specified stone diameter, which ever is greater.

Filter: Under permanent riprap install geotextile fabric for stabilization and filtration

### Installation:

#### Subgrade Replacement:

- Remove brush, trees, stumps, and other debris.
- Excavate only deep enough for both filter and riprap.

#### Filter Placement:

- Place geotextile fabric on a smoothed foundation, overlap the edges at least 12 inches and secure with anchor pins spaced every 3 feet along the overlap.
- If fabric is damaged, remove the riprap and repair damaged area by 12 inches.

#### RipRap Replacement:

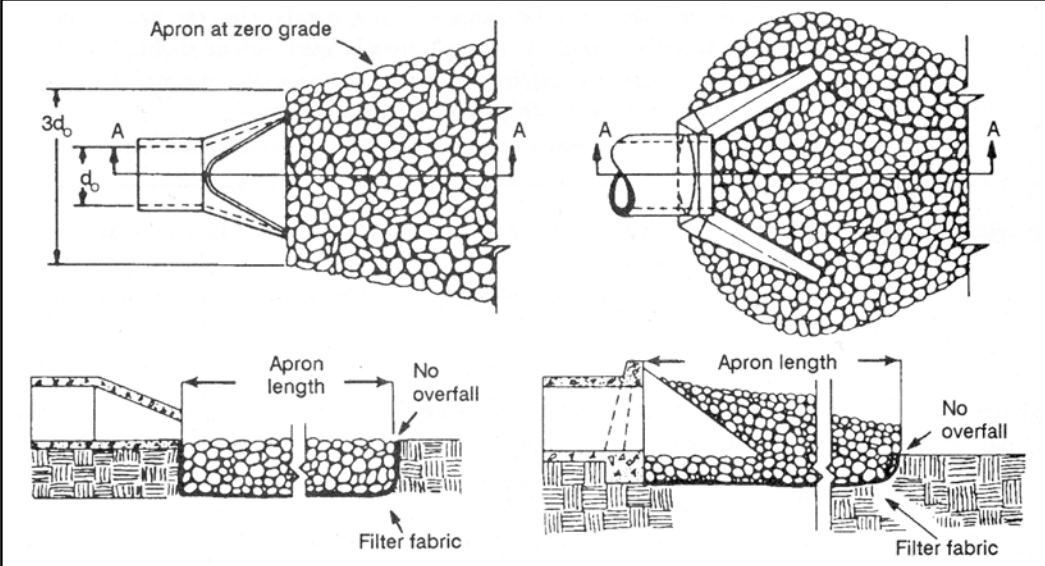
- Immediately after installing the filter, add the riprap to full thickness in one operation to the design elevation, and extend riprap to the top of the bank.
- Place smaller rock in voids to form a dense, uniform, well-graded mass.
- Blend the riprap smoothly to the surrounding grade.
- Stabilize all disturbed areas immediately following installation.

### Maintenance:

- Inspect periodically for displaced rock material, slumping, and erosion at edges, especially down stream or down slope.

### Note:

- At owner's discretion, outlet protection & grade stabilization Scour Stop TM may be substituted for this practice.



Pipe outlet aprons for a channel (left) that is not well defined and (right) that is well defined.

## SILT FENCE

**Purpose:** To retain sediment from small sloping disturbed areas by reducing the velocity of sheet flow.

### Requirements:

Trench: 8" minimum depth, flat bottom or v-shaped, filled with compacted soil or gravel to bury lower portion of support wire and/or fence fabric.

Support posts: 2" x 2" hardwood posts set at least 1 foot deep.

Spacing of Posts: 8-foot maximum if fence supported by wire, otherwise 6 foot for extra strength fabric without wire backing.

Fence height: A 3 feet minimum or high enough so depth of impounded water does not exceed 1.5 feet at any point along fence line.

Support wire : 14 gauge, 6" mesh wire fence. (needed if using standard-strength fabric (optional)

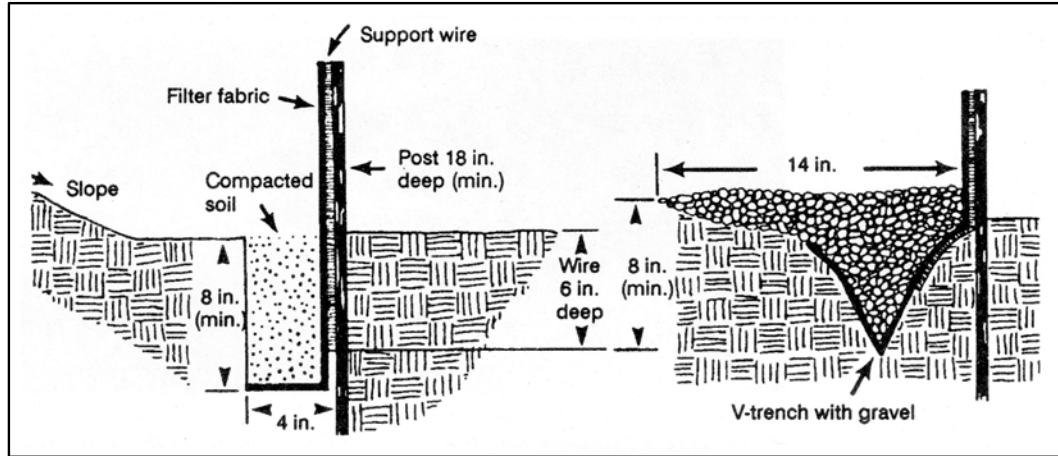
Fence Fabric: Woven or non-woven Geotextile fabric with specified filtering efficiency and tensile strength and containing UV inhibitors and stabilizers to ensure 6 months minimum life at temperatures 0-120 degrees F.

### Installation:

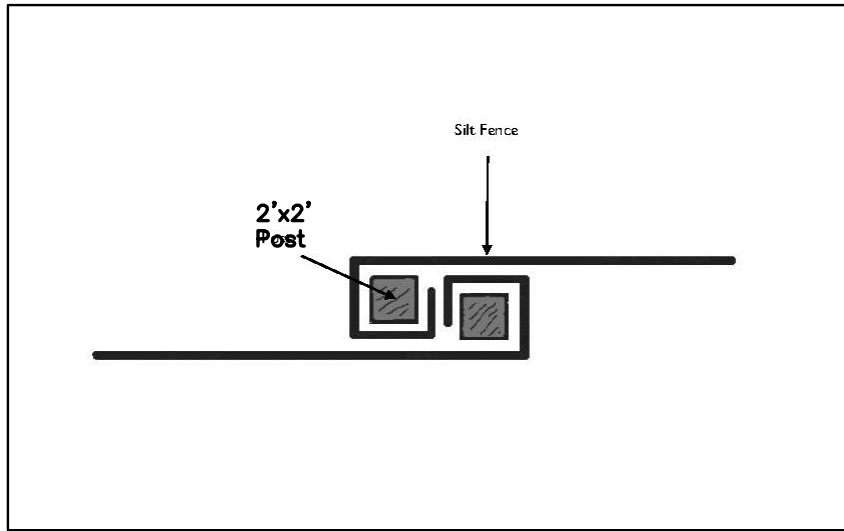
- Along the entire intended fence line, maintain contour as much as possible, dig an 8" deep flat bottom or v-shaped trench.
- On the downslope side of the trench, drive the post at least 1 foot into the ground. (Note: If the fence has pre-attached posts or stakes, drive them deep enough so the fabric is satisfactorily in the trench per step 6)
- Fasten support wire fence to the upslope side of the posts, extending it 8" into trench. (use only if required by manufacturer)
- Run a continuous length of Geotextile fabric along upslope side of posts.
- If a joint is necessary, nail the overlap to the nearest post with a wood lath.
- Place the bottom 1' of fabric in the 8" deep trench, extending the remaining 4" of fabric toward the upslope side.
- Backfill the trench with compacted earth.

### Maintenance:

- Inspect silt fence periodically and after each storm event.
- If fence fabric tears, starts to decompose, or becomes ineffective, replace the affected portion.
- Remove deposited sediment when it reaches half the height of the fence at its lowest point or is causing the fabric to bulge.
- Take care to avoid undermining the fence during clean out.
- After watershed has been stabilized, remove fence and sediment deposits, bring the disturbed area to grade and stabilize.



Detailed example of silt fence installation (showing flat-bottom and v-shaped trenches).



Silt Fence Wrap Joint Detail

## BASKET INLET / CATCH BASIN PROTECTION

**Purpose:** To prevent excessive sediment from entering storm sewers at inlet/catch basin, allowing full use of the storm drain system during the construction period.

### Requirements:

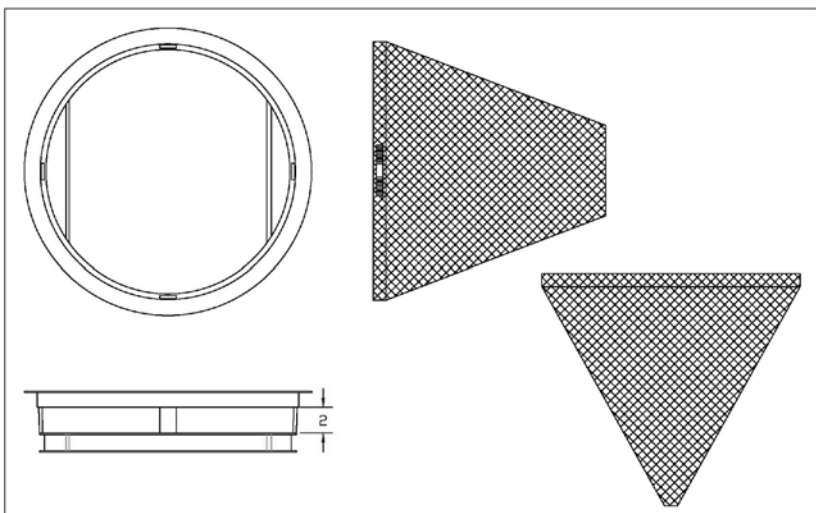
Requirements: Steel Frame with top width-length dimensions such that the basket fits into the inlet and/or catch basin (circular and/or rectangular), and a replaceable Geotextile fabric bag attached with a steel band locking cap that is suspended from the frame, **Catch -all Inlet Protector Hancor Flo-Gard bt Nyloplast** or approved equal.

### Installation:

- Install protection to existing and newly installed inlet/catch basin in a new development before land disturbing activities begin in a stabilized area.
- Remove the grate, and place the basket assembly under the grate on the lip of the structure frame.
- Replace the inlet/catch basin grate.

### Maintenance:

- Inspect weekly during construction and after each storm event of a minimum of 1/2 inch rainfall, and remove built-up sediment.
- Replace bag every six (6) months.
- Replace the Geotextile fabric bag if there is a hole and/or won't pass water.
- Replace the Geotextile fabric bag after any oil, gasoline or solvent spill.



**GENERAL NOTES:**  
**FRAME:** Top Flange fabricated from 1/2"x1/2"x1/4" angle. Base rim fabricated from 1/2"x1/2"x1/4" channel. Hurdles and suspension brackets fabricated from 1/2"x1/2" flat stock. All steel conforming to ASTM-A36.  
**SEDIMENT BAG:** Bag Fabricated from 4 oz./sq.yd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rim with a stainless steel band and lock.

TYPICAL INLET/CATCH BASIN PROTECTION INSERT DETAIL

## CONCRETE WASHOUT

**Purpose:** To reduce the discharge of pollutants associated with concrete waste through consolidation of solids and retention of liquids.

### Requirements:

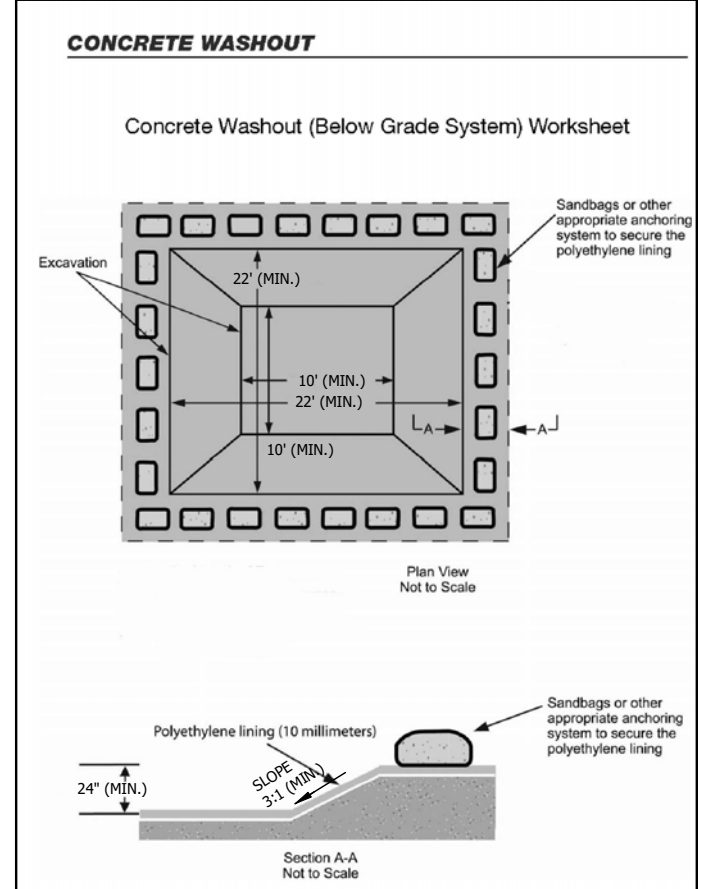
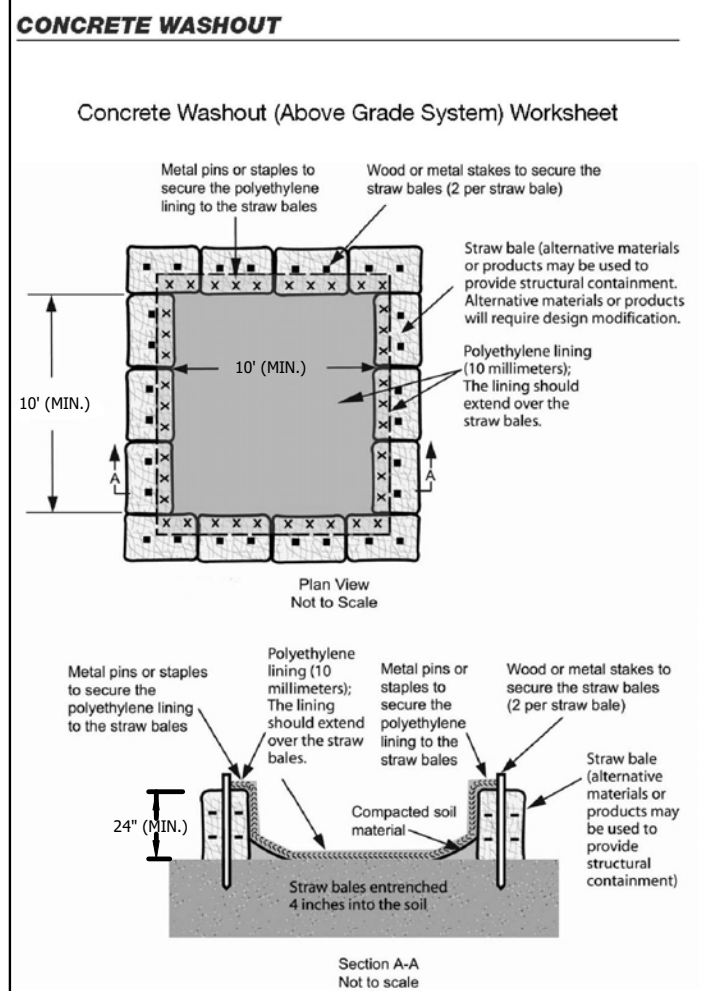
- Locate concrete washout systems at least 50 feet from any creeks, wetlands, ditches, karst features, or storm drains/namade conveyance systems.
- Locate concrete washout systems in relatively flat areas with established vegetative cover and do not receive runoff from adjacent land areas.
- Locate in areas that provide easy access for concrete trucks and other construction equipment.
- Locate away from other construction traffic to reduce the potential for damage to the system.
- Minimum of ten millimeter polyethylene sheeting that is free of holes, tears, and other defects. The sheeting selected should be of an appropriate size to fit the washout system without seams or overlap of the lining.
- Signage.
- Orange safety fencing or equivalent.
- Straw bales, sandbags (bags should be ultraviolet-stabilized geotextile fabric), soil material, or other appropriate materials that can be used to construct a containment system (above grade systems).

### Installation:

- Dependent upon the type of system, either excavate the pit or install the containment system.
- A base shall be constructed and prepared that is free of rocks and other debris that may cause tears or punctures in the polyethylene lining.
- Install the polyethylene lining. For excavated systems, the lining should extend over the entire excavation. The lining for bermed systems should be installed over the pooling area with enough material to extend the lining over the berm or containment system. The lining should be secured with pins, staples, or other fasteners.
- Place flags, safety fencing, or equivalent to provide a barrier to construction equipment and other traffic.
- Place a non-collapsing, non-water holding cover over the washout facility prior to a predicted rainfall event to prevent accumulation of water and possible overflow of the system (optional).
- Install signage that identifies concrete washout areas.
- Post signs directing contractors and suppliers to designated locations.

### Maintenance:

- Inspect daily and after each storm event.
- Inspect the integrity of the overall structure including, where applicable, the containment system.
- Inspect the system for leaks, spills, and tracking of soil by equipment.
- Inspect the polyethylene lining for failure, including tears and punctures.
- Once concrete wastes harden, remove and dispose of the material.
- Excess concrete should be removed when the washout system reaches 50 percent of the design capacity. Use of the system should be discontinued until appropriate measures can be initiated to clean the structure. Prefabricated systems should also utilize this criterion, unless the manufacturer has alternate specifications.
- Upon removal of the solids, inspect the structure. Repair the structure as needed or construct a new system.
- Dispose of all concrete in a legal manner. Reuse the material on site, recycle, or haul the material to an approved construction/demolition landfill site. Recycling of material is encouraged. The waste material can be used for multiple applications including but not limited to roadbeds and building. The availability for recycling should be checked locally.
- The plastic liner should be replaced after every cleaning; the removal of material will usually damage the lining.
- The concrete washout system should be repaired or enlarged as necessary to maintain capacity for concrete waste.
- Concrete washout systems are designed to promote evaporation. However, if the liquids do not evaporate and the system is near capacity it may be necessary to vacuum or remove the liquids and dispose of them in an acceptable method. Disposal may be allowed at the local sanitary sewer authority provided their National Pollutant Discharge Elimination System permits allow for acceptance of this material. Another option would be to utilize a secondary containment system or basin for further dewatering.
- Prefabricated units are often pumped and the company supplying the unit provides this service.
- Inspect construction activities on a regular basis to ensure suppliers, contractors, and others are utilizing designated washout areas. If concrete waste is being disposed of improperly, identify the violators and take appropriate action.
- When concrete washout systems are no longer required, the concrete washout systems shall be closed. Dispose of all hardened concrete and other materials used to construct the system.
- Holes, depressions and other land disturbances associated with the system should be backfilled, graded, and stabilized.



## FILTER TUBE / FILTER SOCK

**Purpose:** To trap sediment by intercepting runoff and reducing the velocity of sheet flow or concentrated flow. Filter socks capture sediment by ponding water to allow settling and deposition.

### Requirements:

Materials: Geotextile fabric sock or a non-biodegradable netting matrix.

#### Permeable Materials:

##### Compost / Mulch:

- Feedstocks may include, but are not limited to, well-composted vegetable matter, leaves, yard trimmings, food scraps, composted manures, paper fiber, wood bark, Class A biosolids (as defined in federal regulations 40 CFR Part 503), or any combination thereof.
- Compost shall be produced using an aerobic composting process meeting CFR 503 Regulations, including time and temperature data indicating effective weed seed, pathogen and insect larvae kill.
- Compost shall be well decomposed, stable, and weed free.
- Variable particle size with maximum dimensions of two inches in length, one-half inch in width, and one-half inch in depth.
- Refuse free (less than one percent by weight).
- Free of any contaminants and materials toxic to plant growth.
- Inert materials not to exceed one percent by dry weight.
- pH of 5.5 to 8.0.
- Carbon-nitrogen ratio not to exceed 100.
- Moisture content not to exceed 45 percent by dry weight.

#### Aggregate:

- INDOT CA No. 5 or No. 8 aggregate.

#### Straw, Excelsior, etc.:

- Premanufactured.

Anchoring Method: 2" x 2" hardwood or steel posts.

#### Bonding Agents (optional):

Tackifiers, flocculants, or microbial additives may be used to remove sediment and/or additional pollutants from storm water runoff. (All additives combined with compost materials should be tested for physical results at a certified erosion and sediment control laboratory and biologically tested for elevated beneficial microorganisms at a United States Compost Council, Seal of Testing Assurance approved testing laboratory.)

### Installation:

- Lay out the location of the filter sock barrier so that it is parallel to the contour of the slope and at least 10 feet beyond the toe of the slope to provide a sediment storage area. Turn the ends of the filter sock barrier up slope such that the barrier end terminates at a higher elevation than the top of the filter sock barrier at its lowest point.
- Excavate a trench with a depth and width equal to at least one-fourth the diameter of the filter sock or follow the manufacturer's recommendations. Where applicable, the trench may also be excavated upslope of a curb or sidewalk. Placing product against the curb or sidewalk will provide additional stability and resistance to surface flow.
- Construct the filter sock or utilize a pre-manufactured product. For compost use a pneumatic blower or similar device to provide adequate and consistent fill in the sock. (Seed or sod may be applied at the time of installation for permanent applications.)
- If more than one sock is placed in a row, the socks should be overlapped; not abutted.
- Anchor the filter sock barrier in place by driving posts through the barrier and into the underlying soil material. Posts should be spaced no more than five feet apart and driven through the middle of the sock. The posts should be driven a minimum of 18 inches deep into the soil. The stake should be flush with the top of the sock.
- Backfill the trench with excavated soil placed against the filter sock barrier to ground level on the down-slope side and to two inches above the ground level on the up-slope side of the filter sock barrier. Compact the fill material to keep it in place.

#### Options for installation:

- These products may be placed in a series on the contour at intervals on a slope.
- Follow the manufacturer's recommendations for this application, including spacing and diameter of product.
- This application will require careful layout and installation. Alternatives, including immediate stabilization, should be considered as the first alternative. This application also requires extensive maintenance and daily inspections.
- Typical applications include:
  - Slopes less than 20 percent (5:1). Place socks at a maximum interval of 20 feet (a closer spacing is more effective).
  - Slopes between 20 percent (5:1) and less than 50 percent (2:1). Place socks at a maximum interval of 15 feet (a closer spacing is more effective).
  - Slopes greater than 50 percent (2:1). Place socks at a maximum interval of 10 feet (a closer spacing is more effective).

### Maintenance:

- Inspect within 24 hours of a rain event and at least once every seven calendar days. When installed in series at intervals on a slope, inspection should be done daily.
- Remove accumulated sediment when it reaches one-quarter the height of the filter sock.
- Inspect to ensure that the sock is maintaining its integrity and producing adequate flow.
- Repair eroded and damaged areas.
- If ponding becomes excessive, socks should be removed and either reconstructed or a new product installed.
- Reseed, if applicable.
- If the filter sock is not designed as a permanent filter or part of the natural landscape and the contributing drainage area has been stabilized, use a blade or knife to cut open sock and use a bulldozer, loader, rake, or other device to incorporate the organic material into the soil, or spread it over the top of the soil surface for final seeding. Remove and dispose of sock if necessary.

## TOPSOIL SALVAGE & UTILIZATION

**Purpose:** To provide a method of preserving topsoil for use in establishing vegetation to achieve final site stabilization.

### Specifications:

#### Material

Typically the darker, friable, loamy surface layer of soil found immediately below vegetation.

#### Storage Area

- Free of stumps, rock, and construction debris.
- Stockpile covered with vegetation or a tarp.
- Surrounded by a sediment barrier or sediment filter.
- Stockpile outside rooting zone of trees to be protected.

### Application:

#### Salvaging and Stockpiling Topsoil

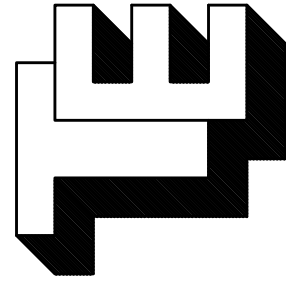
- Determine depth and suitability of topsoil at site.
- Prior to stripping topsoil, install any site-specific down slope measures needed to control storm water runoff and sedimentation.
- Remove soil material no deeper than the "surface soil".
- Stockpile the material in accessible locations that will not interfere with other construction activities or block drainage.
- Stockpiled soil should be temporarily seeded and surrounded by a sediment control measure.

#### Spreading Topsoil

- Prior to applying topsoil, grade the subsoil and roughen the top three to four inches by disking.
- Apply topsoil evenly to a depth of a minimum of four inches, then compact slightly to improve contact with the subsoil.
- Do not apply topsoil when the site is wet, muddy, or frozen.
- After spreading the topsoil, grade and stabilize the site.

### Maintenance:

- Inspect daily.
- Check for damage to perimeter barrier; repair immediately.
- Check for erosion or damage to newly spread topsoil; repair immediately and revegetate.



**TORRENGA ENGINEERING, INC.**  
CONSULTING ENGINEERS & LAND SURVEYORS  
907 RIDGE ROAD, MUNSTER, INDIANA 46321

website: [www.torrengea.com](http://www.torrengea.com)

Tel. No.: (219) 836-8918

**MUNSTER CHRISTIAN REFORMED CHURCH**  
214 RIDGE ROAD, MUNSTER, IN 46321

**STORM WATER POLLUTION PREVENTION PLAN**

REVISIONS:  
06-06-2022  
DATE: 04-22-2022

CLIENT:  
c/o Pastor Jim Hollendoner  
Munster Church  
214 Ridge Road  
Munster, IN 46321

JOB NO: 2022-5015

SCALE: 1"=30'

**SHEET**  
C-6.1







Schedule	Symbol	Quantity	Manufacturer	Coloring Number	Installation	Remarks	Quantity	Manufacturer	Coloring Number	Installation	Remarks
SA		4			CONCRETE	CONCRETE	4				

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone Entire Site	+	1.1 fc	7.2 fc	0.0 fc	N/A	N/A
Calc Zone Parking Area	x	1.8 fc	7.2 fc	0.1 fc	72.0:1	18.0:1

Luminaire Locations						
Location						
No.	Label	X	Y	MH	Orientation	Tilt
1	SA	4166.60	4707.40	20.00	90.00	0.00
2	SA	4332.00	4843.50	20.00	270.00	0.00
3	SA	4324.70	4962.00	20.00	270.00	0.00
4	SA	4163.50	4837.00	20.00	90.00	0.00
5	SA	4314.40	4788.30	20.00	270.00	0.00
6	SA	4334.30	4660.70	20.00	270.00	0.00



Plan View  
Scale - 1" = 30'



NOTE  
SEE STRUCTURAL DRAWINGS FOR LINTEL SIZES AND LOCATIONS

VOID SQ. FT. AREA SCHEDULE			
BUILDING ELEVATION	AREA OF FACADE	AREA OF VOIDS	VOID PERCENTAGE
NORTH	2,008 SQ. FT.	748 SQ. FT.	40%
SOUTH	2,227 SQ. FT.	811 SQ. FT.	36%
EAST	2,220 SQ. FT.	221 SQ. FT.	10%
TOTALS	6,455 SQ. FT.	1,880 SQ. FT.	28%

NOTE:  
AVERAGE FACADE PROPORTIONS RATIO = 1:4

## EXTERIOR FINISH NOTES

### THERMAL AND MOISTURE

WEATHER BARRIER: "TYVEK DRAINWRAP"  
DUPONT: (800) 448-8895  
RUBBERIZED SHEET FLASHING: BT20 XL BUILDING TAPE  
PROTECTO WRAP CO.: (877) 271-4661  
FLEXIBLE RUBBERIZED FLASHING  
DUPONT: (800) 448-8895

### EXTERIOR METALS AND FLASHING

SHEET METAL FLASHINGS: PRE-FINISHED, METALLIC-COATED STEEL SHEET AT EXPOSED AREAS.  
ORGANIC FINISH: TPO-COAT FLUOROPOLYMER NYLAR 8000 OR KYNAR 500, COMPLYING WITH PHYSICAL PROPERTIES AND COATING PERFORMANCE REQUIREMENTS OF AAMA 2605. COLOR SELECTED FROM STANDARD RANGE.  
- BASE FLASHING: 26 GA.  
- COUNTERFLASHING: 24 GA.  
- FLASHING RECEIVERS: 26 GA.  
- DRIP EDGES: 24 GA.

SOFFITS AND UNDERSIDES OF EXTERIOR CEILINGS: PRE-FORMED VENTED ALUMINUM PANELS AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD RANGE.  
PAC-GLAD BY PETERSEN ALUMINUM (OR EQUIVALENT): (800) 722-2523  
GUTTERS AND DOWNSPOUTS: PRE-FINISHED ALUMINUM, COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD RANGE.  
ROLLEX BY BEAUTYGARD BUILDING PRODUCTS (OR EQUIVALENT): (214) 322-5500

## EXTERIOR FINISH SCHEDULE

### MASONRY

TYPE	MANUFACTURER	SIZE (NOMINAL)	COLOR	MORTAR COLOR / TYPE	CTRL. JOINT CAULK
BRICK VENEER	T.B.D.	2 1/4"x4"x8 1/2"	T.B.D.	NATURAL / TYPE "N" (SEE NOTE #2)	SONNEBORN OR EQUIVALENT
STONE VENEER	T.B.D.	12 1/8"x4 1/2"x24 1/4"	T.B.D.	NATURAL / TYPE "N" (SEE NOTE #2)	SONNEBORN OR EQUIVALENT
PRECAST STONE SILL	T.B.D.	4 1/8"x4 1/2"x24 1/4"	T.B.D.	NATURAL / TYPE "N" (SEE NOTE #2)	SONNEBORN OR EQUIVALENT

### METALS

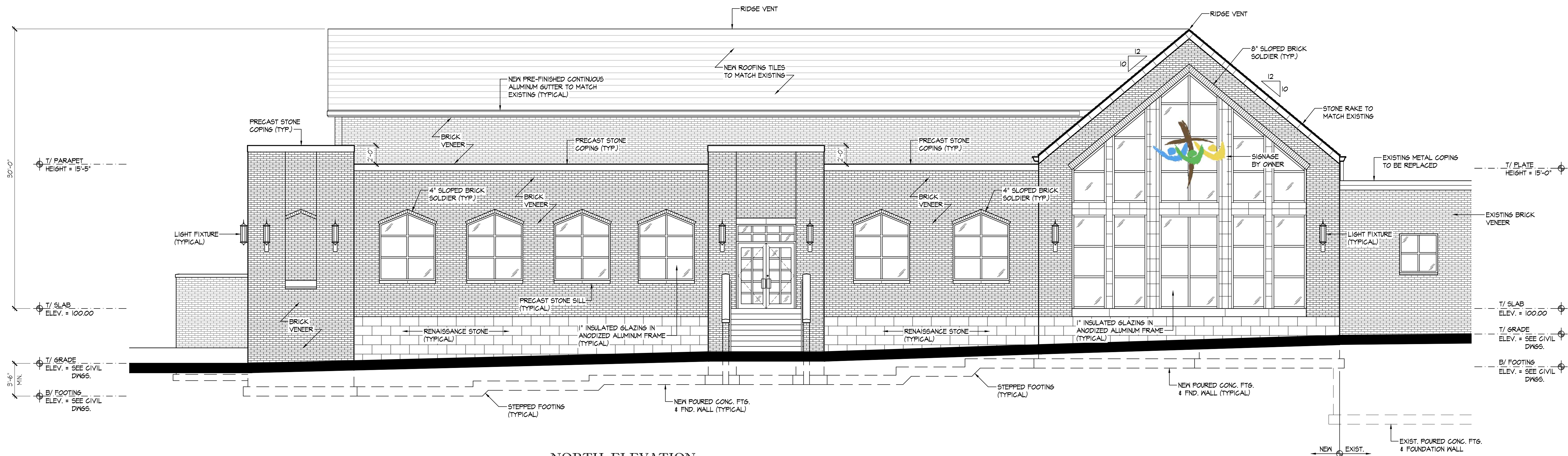
LOCATION / I.D.	MANUFACTURER	TYPE	FINISH	COLOR
STOREFRONT & WINDOW FRAMING	KANNEER EFCO OR EQUIVALENT	ANODIZED ALUMINUM	PRE-FINISHED	T.B.D.
GUTTERS, DOWNSPOUTS, EAVES & FASCIA	PAC-GLAD PETERSON OR EQUAL	FORMED ALUMINUM	PRE-FINISHED	T.B.D.
HOLLOW METAL DOORS & FRAMES	T.B.D.	HOLLOW METAL	T.B.D.	T.B.D.

### STOREFRONT GLAZING

LOCATION / I.D.	MANUFACTURER	COLOR / FINISH	DESCRIPTION
STOREFRONT & WINDOW FRAMING	KANNEER EFCO OR EQUIVALENT	T.B.D.	CLEAR OR TREATED 1" INSULATED GLAZING

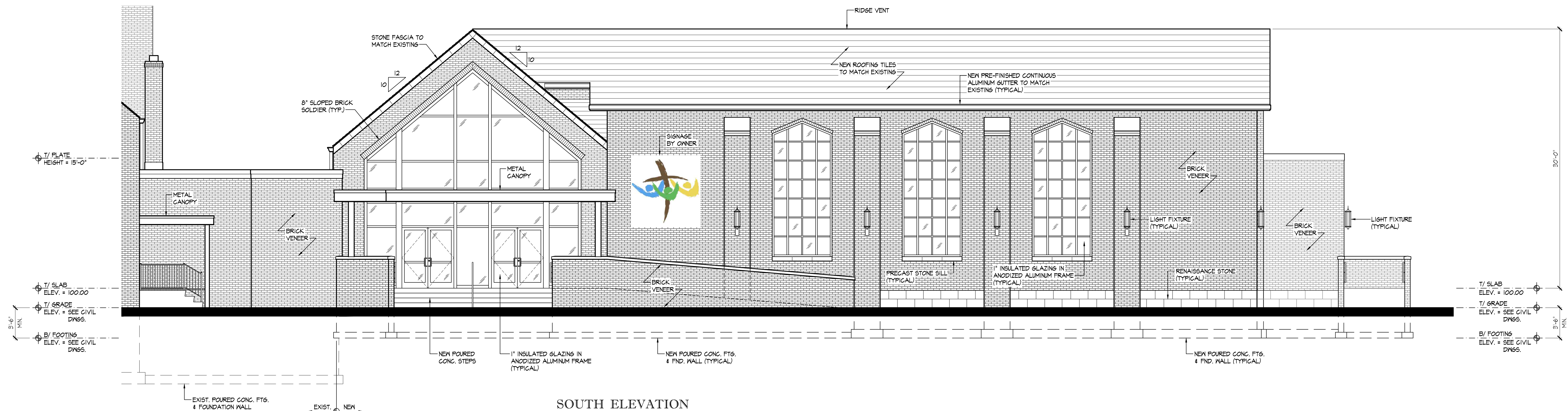
### NOTES:

- INSTALLER TO SUBMIT FINISH SAMPLES FOR APPROVAL BY ARCHITECT PRIOR TO INSTALLATION.
- TYPE "S" MORTARS TO BE USED AT LOCATIONS WHERE MASONRY IS IN CONTACT WITH THE GROUND OR AT TOP OF FOUNDATION WALL.



NORTH ELEVATION

SCALE: 3/16" = 1'-0"



SOUTH ELEVATION

SCALE: 3/16" = 1'-0"

MUNSTER CHURCH  
214 RIDGE ROAD  
MUNSTER, INDIANA  
46321



ROHN ASSOCIATES  
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ARCHITECT'S SEAL

ISSUE FOR:  
12/3/20 AS-BUILTS  
1/6/21 REVIEW  
3/11/22 REVIEW  
4/21/22 PLAN COMMISSION  
6/3/22 REVIEW

EXTERIOR  
ELEVATIONS

SCALE: AS NOTED  
PROJECT NO.: 20-498

A1



NOTE  
SEE STRUCTURAL DRAWINGS FOR LINTEL SIZES AND LOCATIONS

VOID SQ. FT. AREA SCHEDULE			
BUILDING ELEVATION	AREA OF FACADE	AREA OF VOIDS	VOID PERCENTAGE
NORTH	2,008 SQ. FT.	748 SQ. FT.	40%
SOUTH	2,227 SQ. FT.	811 SQ. FT.	36%
EAST	2,220 SQ. FT.	221 SQ. FT.	10%
TOTALS	6,455 SQ. FT.	1,880 SQ. FT.	28%

NOTE:  
AVERAGE FACADE PROPORTIONS RATIO = 1:1.4

## EXTERIOR FINISH NOTES

### THERMAL AND MOISTURE

WEATHER BARRIER: TYPYK DRAINWRAP®  
DUPONT: (800) 448-8895  
RUBBERIZED SHEET FLASHING: BT20 XL BUILDING TAPE  
PROTECTO WRAP CO.: (877) 271-4661  
FLEXIBLE RUBBERIZED FLASHING  
DUPONT: (800) 448-8895

### EXTERIOR METALS AND FLASHING

SHEET METAL FLASHINGS: PRE-FINISHED, METALLIC-COATED STEEL SHEET AT EXPOSED AREAS.  
ORGANIC FINISH: TPO-COAT FLUOROPOLYMER NYLAR 3000 OR KYNAR 500, COMPLYING WITH PHYSICAL PROPERTIES AND COATING PERFORMANCE REQUIREMENTS OF AAMA 2605. COLOR SELECTED FROM STANDARD RANGE.

- BASE FLASHING: 26 GA.
- COUNTERFLASHING: 24 GA.
- FLASHING RECEIVERS: 26 GA.
- DRIP EDGES: 24 GA.

SOFFITS AND UNDERSIDES OF EXTERIOR CEILINGS: PRE-FORMED VENTED ALUMINUM PANELS AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD RANGE.  
PAC-GLAD BY PETERSEN ALUMINUM (OR EQUIVALENT): (800) T22-2523

GUTTERS AND DOWNSPOUTS: PRE-FINISHED ALUMINUM. COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD RANGE.  
ROLLEX BY BEAUTYGARD BUILDING PRODUCTS (OR EQUIVALENT): (214) 322-5500

## EXTERIOR FINISH SCHEDULE

### MASONRY

TYPE	MANUFACTURER	SIZE (NOMINAL)	COLOR	MORTAR COLOR / TYPE	CTRL. JOINT CAULK
BRICK VENEER	T.B.D.	2 1/4"x4"x8"x11"	T.B.D.	NATURAL / TYPE "N" (SEE NOTE #2)	SONNEBORN OR EQUIVALENT
STONE VENEER	T.B.D.	12"x6"x12"x24"x11"	T.B.D.	NATURAL / TYPE "N" (SEE NOTE #2)	SONNEBORN OR EQUIVALENT
PRECAST STONE SILL	T.B.D.	4"x6"x12"x24"x11"	T.B.D.	NATURAL / TYPE "N" (SEE NOTE #2)	SONNEBORN OR EQUIVALENT

### METALS

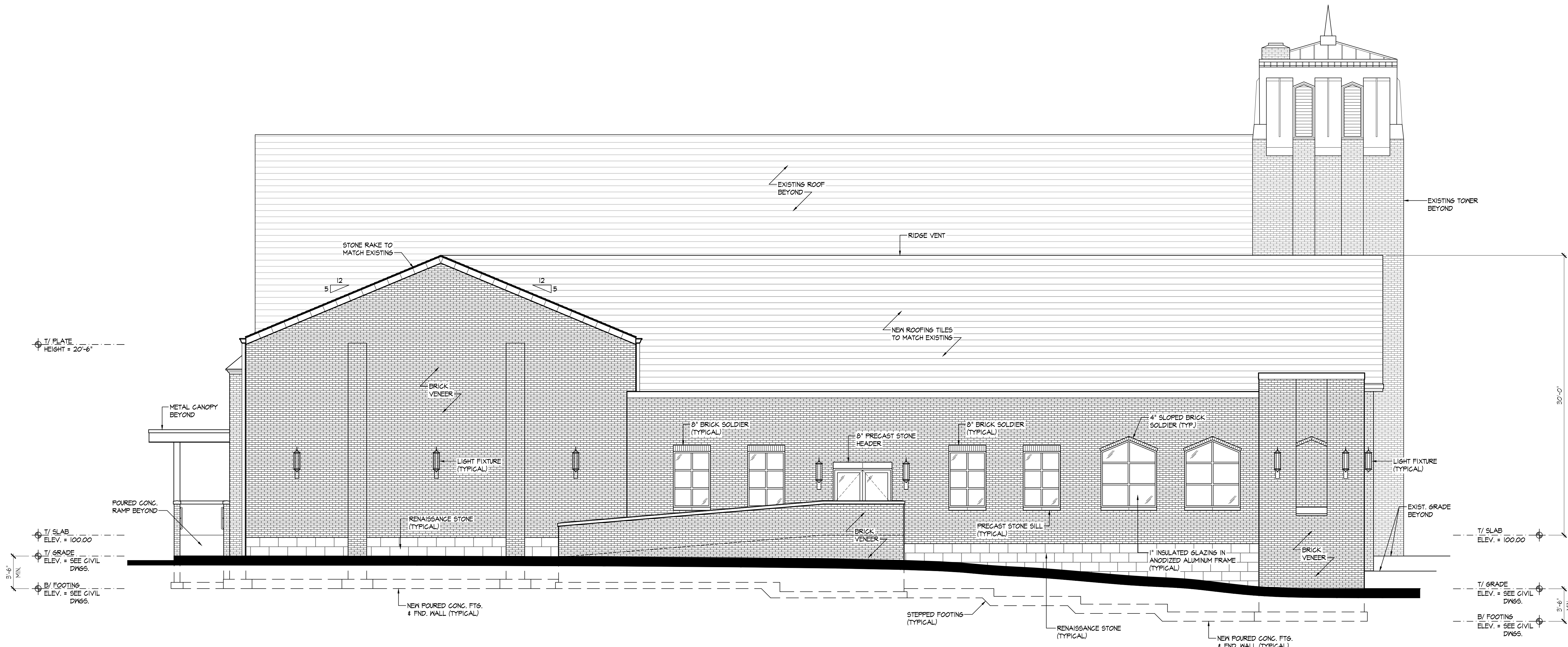
LOCATION / I.D.	MANUFACTURER	TYPE	FINISH	COLOR
STOREFRONT & WINDOW FRAMING	KANNEER EFCO OR EQUIVALENT	ANODIZED ALUMINUM	PRE-FINISHED	T.B.D.
GUTTERS, DOWNSPOUTS, EAVES & FASCIAS	PAC-GLAD PETERSON OR EQUAL	FORMED ALUMINUM	PRE-FINISHED	T.B.D.
HOLLOW METAL DOORS & FRAMES	T.B.D.	HOLLOW METAL	T.B.D.	T.B.D.

### STOREFRONT GLAZING

LOCATION / I.D.	MANUFACTURER	COLOR / FINISH	DESCRIPTION
STOREFRONT & WINDOW FRAMING	KANNEER EFCO OR EQUIVALENT	T.B.D.	CLEAR OR TREATED 1" INSULATED GLAZING

### NOTES:

- INSTALLER TO SUBMIT FINISH SAMPLES FOR APPROVAL BY ARCHITECT PRIOR TO INSTALLATION.
- TYPE "S" MORTARS TO BE USED AT LOCATIONS WHERE MASONRY IS IN CONTACT WITH THE GROUND OR AT TOP OF FOUNDATION WALL.



EAST ELEVATION

SCALE: 3/16" = 1'-0"

MUNSTER CHURCH

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MUNSTER, INDIANA

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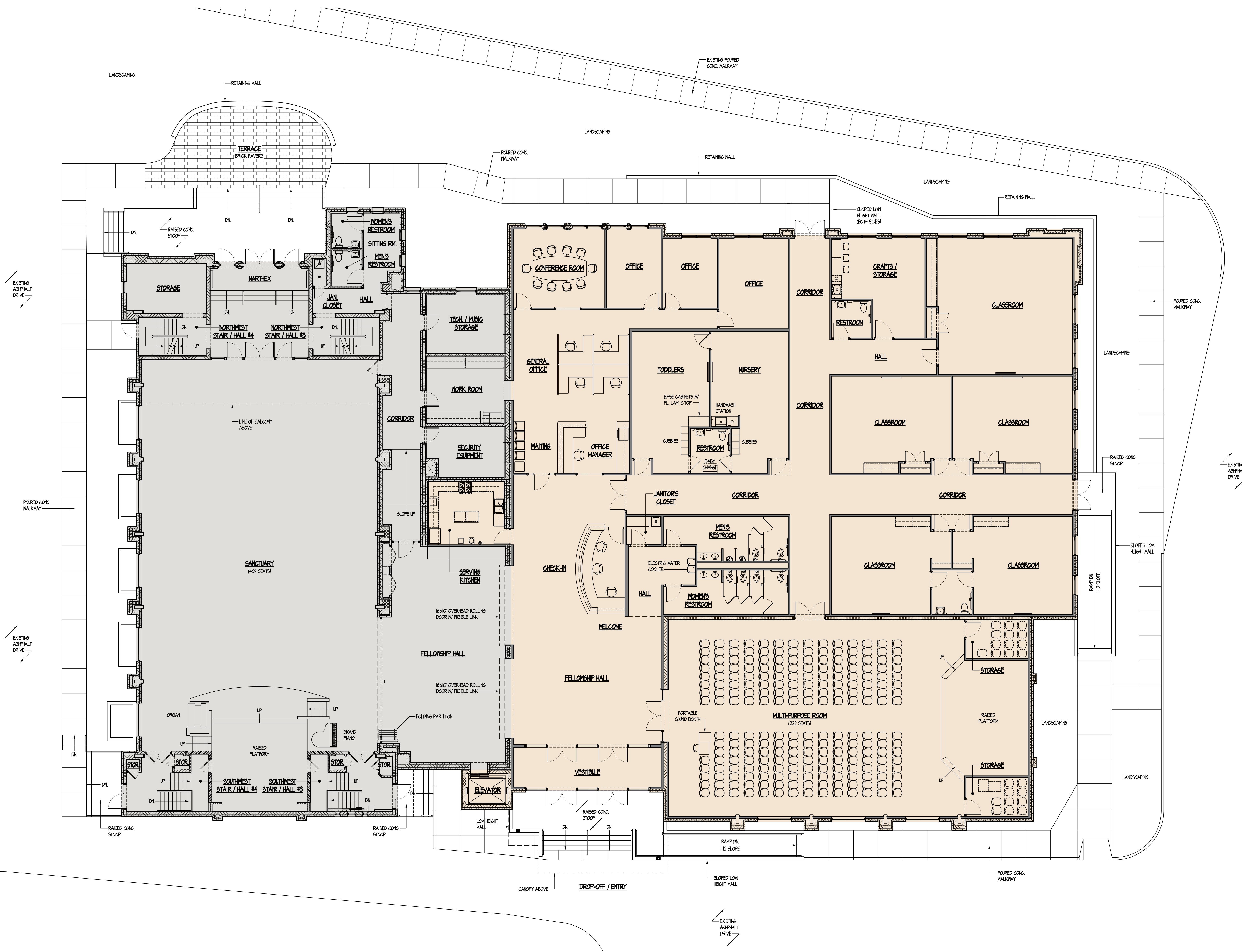
ISSUE FOR:  
12/3/20 AS-BUILTS  
1/6/21 REVIEW  
3/11/22 REVIEW  
4/21/22 PLAN  
6/3/22 COMMISSION REVIEW

EXTERIOR  
ELEVATIONS

SCALE: AS NOTED  
PROJECT NO.: 20-498

A2





OVERALL FLOOR PLAN

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



COLOR LEGEND	
[Light Tan Box]	NEW ADDITION AND INTERIOR RE-MODEL
[Light Grey Box]	EXISTING: AREA OF LIMITED AND / OR NO WORK

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MUNSTER, INDIANA  
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12/3/20	AS-BUILTS
1/6/21	REVIEW
3/11/22	REVIEW
4/21/22	PLAN
6/3/22	COMMISSION
	REVIEW

OVERALL  
FLOOR  
PLAN

SCALE: AS NOTED  
PROJECT NO.: 20-498

A3





FLOOR PLAN

SCALE: 3/16" = 1'-0"

COLOR LEGEND	
[Light Orange Box]	NEW ADDITION AND INTERIOR RE-MODEL
[Light Grey Box]	EXISTING: AREA OF LIMITED AND / OR NO WORK

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MUNSTER, INDIANA  
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12/3/20	AS-BUILTS
1/6/21	REVIEW
3/11/22	REVIEW
4/21/22	PLAN
6/3/22	COMMISSION
6/3/22	REVIEW

FLOOR  
PLAN

SCALE: AS NOTED  
PROJECT NO.: 20-498

A4





MUNSTER CHURCH





MUNSTER CHURCH



NOTE  
SEE STRUCTURAL DRAWINGS FOR LINTEL SIZES AND LOCATIONS

GLAZING SQ. FT. AREA SCHEDULE

BUILDING ELEVATION	AREA OF FACADE	AREA OF GLAZING	GLAZING PERCENTAGE
NORTH	1,262 SQ. FT.	216 SQ. FT.	17%
SOUTH	1,262 SQ. FT.	0 SQ. FT.	0%
EAST	1,236 SQ. FT.	58 SQ. FT.	5%
WEST	1,358 SQ. FT.	103 SQ. FT.	8%

EXTERIOR FINISH NOTES

THERMAL AND MOISTURE

WEATHER BARRIER: TYPYK DRAINWRAP®  
DUPONT: (800) 448-8835  
RUBBERIZED SHEET FLASHING: BT20 XL BUILDING TAPE  
PROTECTO WRAP CO.: (877) 271-4661  
FLEXIBLE RUBBERIZED FLASHING  
DUPONT: (800) 448-8835

EXTERIOR METALS AND FLASHING

SHEET METAL FLASHINGS: PRE-FINISHED, METALLIC-COATED STEEL SHEET AT EXPOSED AREAS.  
ORGANIC FINISH: TPO-COAT FLUOROPOLYMER NYLAR 5000 OR KYNAR 500, COMPLYING WITH  
PHYSICAL PROPERTIES AND COATING PERFORMANCE REQUIREMENTS OF AAMA 2605. COLOR  
SELECTED FROM STANDARD RANGE.

- BASE FLASHING: 26 GA.
- COUNTERFLASHING: 24 GA.
- FLASHING RECEIVERS: 26 GA.
- DRIP EDGES: 24 GA.

SOFFITS AND UNDERSIDES OF EXTERIOR CEILINGS: PRE-FORMED VENTED ALUMINUM PANELS  
AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD RANGE.  
PAC-GLAD BY PETERSEN ALUMINUM (OR EQUIVALENT): (800) T22-2523

GUTTERS AND DOWNSPOUTS: PRE-FINISHED ALUMINUM. COLOR AS SELECTED BY ARCHITECT  
FROM MANUFACTURER'S STANDARD RANGE.  
ROLLEX BY BEAUTYGARD BUILDING PRODUCTS (OR EQUIVALENT): (214) 322-5500

EXTERIOR FINISH SCHEDULE

MASONRY

TYPE	MANUFACTURER	SIZE (NOMINAL)	COLOR	MORTAR COLOR / TYPE	CTRL. JOINT CAULK
BRICK VENEER	T.B.D.	2 1/4"x4"1Dx8"1U	T.B.D.	NATURAL / TYPE "N" (SEE NOTE #2)	SONNEBORN OR EQUIVALENT
STONE VENEER	T.B.D.	12"x4"x1Dx24"1U	T.B.D.	NATURAL / TYPE "N" (SEE NOTE #2)	SONNEBORN OR EQUIVALENT
PRECAST STONE SILL	T.B.D.	4"x4"x1Dx24"1U	T.B.D.	NATURAL / TYPE "N" (SEE NOTE #2)	SONNEBORN OR EQUIVALENT

METALS

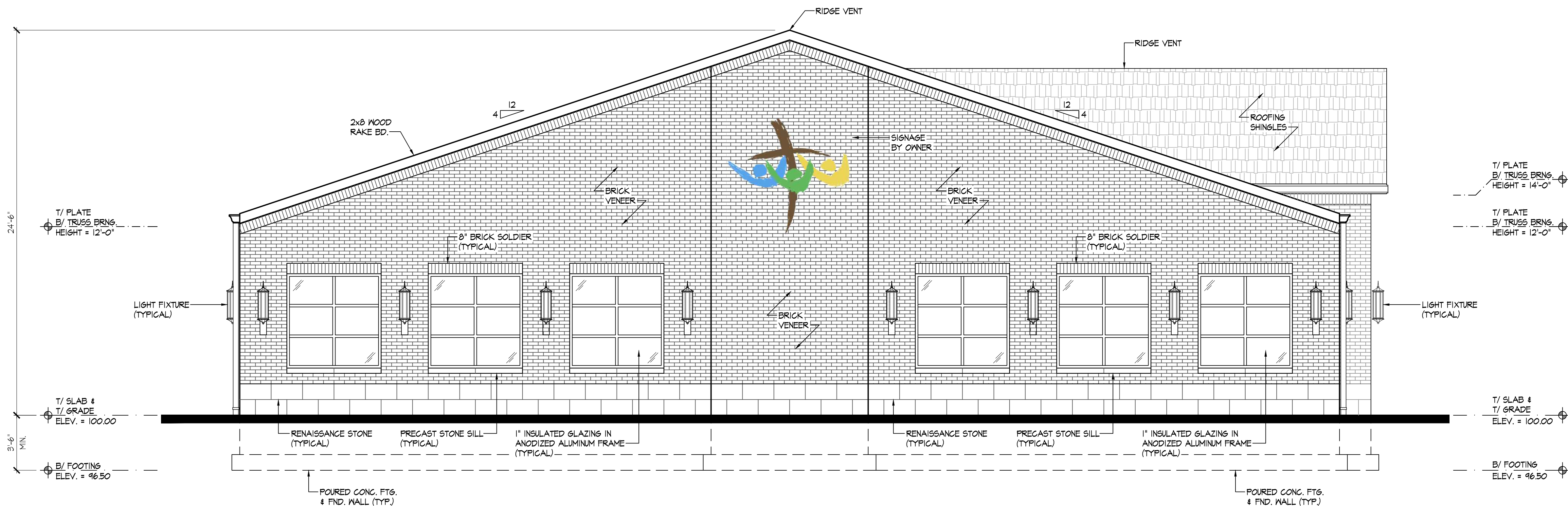
LOCATION / I.D.	MANUFACTURER	TYPE	FINISH	COLOR
STOREFRONT & WINDOW FRAMING	KANNEER EFCO OR EQUIVALENT	ANODIZED ALUMINUM	PRE-FINISHED	T.B.D.
GUTTERS, DOWNSPOUTS, EAVES & FACIAS	PAC-GLAD PETERSON OR EQUAL	FORMED ALUMINUM	PRE-FINISHED	T.B.D.
HOLLOW METAL DOORS & FRAMES	T.B.D.	HOLLOW METAL	T.B.D.	T.B.D.

STOREFRONT GLAZING

LOCATION / I.D.	MANUFACTURER	COLOR / FINISH	DESCRIPTION
STOREFRONT & WINDOW FRAMING	KANNEER EFCO OR EQUIVALENT	T.B.D.	CLEAR OR TREATED 1" INSULATED GLAZING

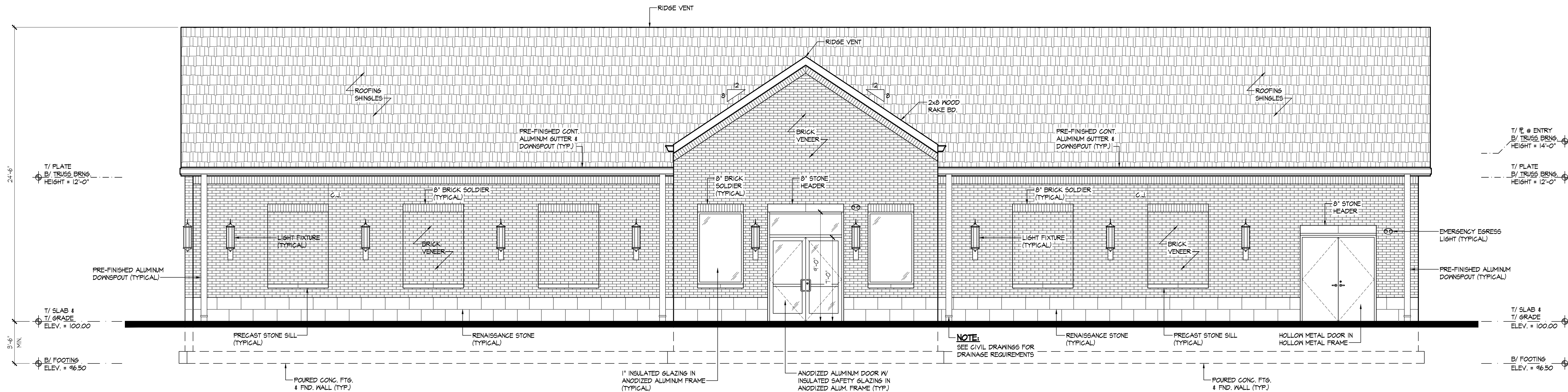
NOTES:

- INSTALLER TO SUBMIT FINISH SAMPLES FOR APPROVAL BY ARCHITECT PRIOR TO INSTALLATION.
- TYPE "S" MORTARS TO BE USED AT LOCATIONS WHERE MASONRY IS IN CONTACT WITH THE GROUND OR AT TOP OF FOUNDATION WALL.



NORTH ELEVATION

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



WEST ELEVATION

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

MUNSTER CHURCH

214 RIDGE ROAD  
MUNSTER, INDIANA

46321



ROHN ASSOCIATES  
ARCHITECTS & PLANNERS

13177 RHODE STREET  
CEDAR LAKE, IN 46303  
PHONE: (708) 906-4670

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ISSUE FOR:  
12/3/20 AS-BUILTS  
1/6/21 REVIEW  
3/11/22 REVIEW  
4/21/22 PLAN  
COMMISSION  
6/3/22 REVIEW

EXTERIOR  
ELEVATIONS

SCALE: AS NOTED  
PROJECT NO.: 20-498

A1



NOTE  
SEE STRUCTURAL DRAWINGS FOR LINTEL SIZES AND LOCATIONS

GLAZING SQ. FT. AREA SCHEDULE			
BUILDING ELEVATION	AREA OF FACADE	AREA OF GLAZING	GLAZING PERCENTAGE
NORTH	1,262 SQ. FT.	216 SQ. FT.	17%
SOUTH	1,262 SQ. FT.	0 SQ. FT.	0%
EAST	1,236 SQ. FT.	58 SQ. FT.	5%
WEST	1,358 SQ. FT.	103 SQ. FT.	8%

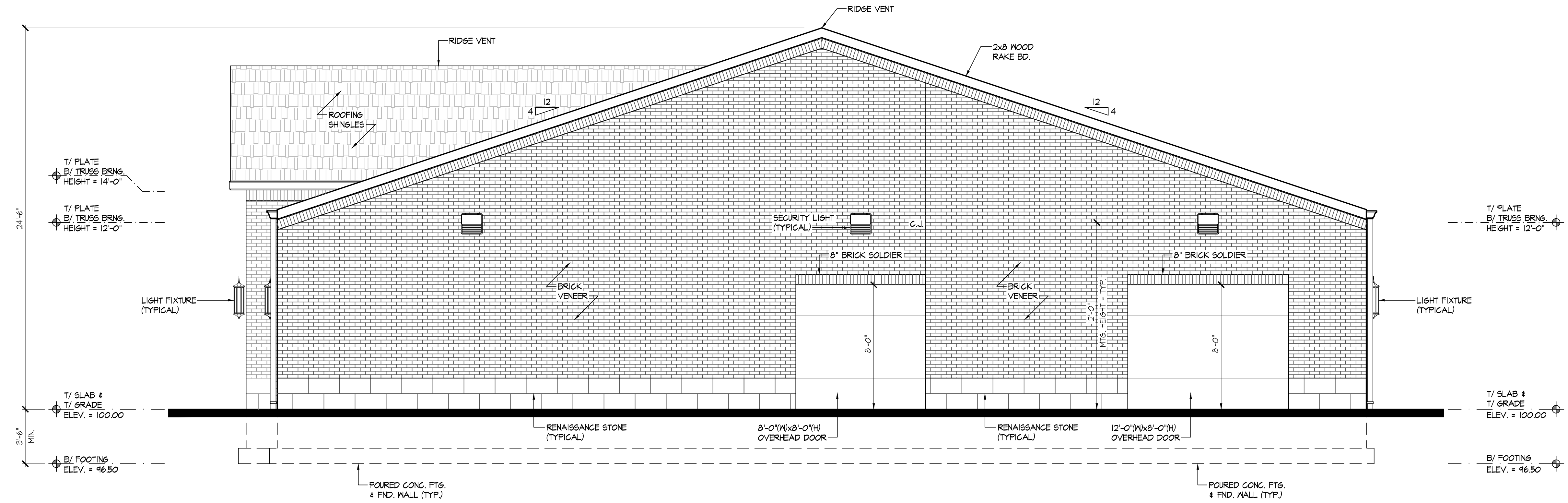
EXTERIOR FINISH NOTES

**THERMAL AND MOISTURE**  
WEATHER BARRIER: "TYVEK DRAINWRAP"  
DUPONT: (800) 448-8835  
RUBBERIZED SHEET FLASHING: BT20 XL BUILDING TAPE  
PROTECTO WRAP CO.: (877) 271-4661  
FLEXIBLE RUBBERIZED FLASHING  
DUPONT: (800) 448-8835

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PAC-GLAD BY PETERSEN ALUMINUM (OR EQUIVALENT). (800) 722-2523  
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ROLLEX BY BEAUTYGARD BUILDING PRODUCTS (OR EQUIVALENT). (214) 322-5500

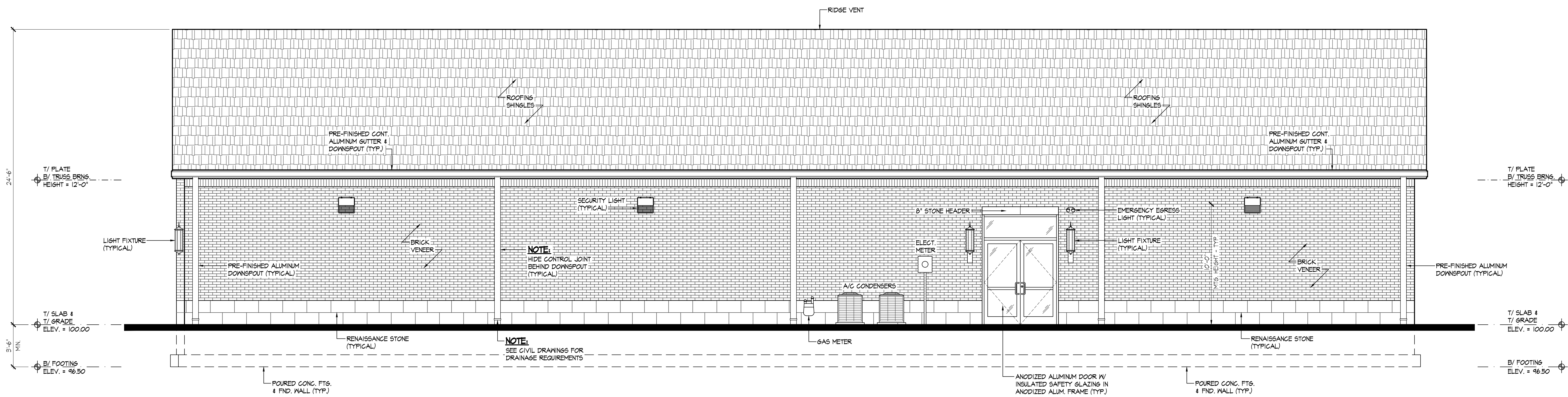
EXTERIOR FINISH SCHEDULE					
MASONRY					
TYPE	MANUFACTURER	SIZE (NOMINAL)	COLOR	MORTAR COLOR / TYPE	CTRL. JOINT CAULK
BRICK VENEER	T.B.D.	2 1/4"x4 1/2"x8 1/2"	T.B.D.	NATURAL / TYPE "N" (SEE NOTE #2)	SONNEBORN OR EQUIVALENT
STONE VENEER	T.B.D.	12 1/2"x4 1/2"x24 1/2"	T.B.D.	NATURAL / TYPE "N" (SEE NOTE #2)	SONNEBORN OR EQUIVALENT
PRECAST STONE SILL	T.B.D.	4 1/2"x4 1/2"x24 1/2"	T.B.D.	NATURAL / TYPE "N" (SEE NOTE #2)	SONNEBORN OR EQUIVALENT
METALS					
LOCATION / I.D.	MANUFACTURER	TYPE	FINISH	COLOR	
STOREFRONT & WINDOW FRAMING	KANNEER, EFCO OR EQUIVALENT	ANODIZED ALUMINUM	PRE-FINISHED	T.B.D.	
GUTTERS, DOWNSPOUTS, EAVES & FACIAS	PAC-GLAD PETERSON OR EQUAL	FORMED ALUMINUM	PRE-FINISHED	T.B.D.	
HOLLOW METAL DOORS & FRAMES	T.B.D.	HOLLOW METAL	T.B.D.	T.B.D.	
STOREFRONT GLAZING					
LOCATION / I.D.	MANUFACTURER	COLOR / FINISH	DESCRIPTION		
STOREFRONT & WINDOW FRAMING	KANNEER, EFCO OR EQUIVALENT	T.B.D.	CLEAR OR TREATED 1" INSULATED GLAZING		

NOTES:  
1. INSTALLER TO SUBMIT FINISH SAMPLES FOR APPROVAL BY ARCHITECT PRIOR TO INSTALLATION.  
2. TYPE "S" MORTAR TO BE USED AT LOCATIONS WHERE MASONRY IS IN CONTACT WITH THE GROUND OR AT TOP OF FOUNDATION WALL.



SOUTH ELEVATION

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



EAST ELEVATION

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

MUNSTER CHURCH

214 RIDGE ROAD  
MUNSTER, INDIANA  
46321



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ISSUE FOR:

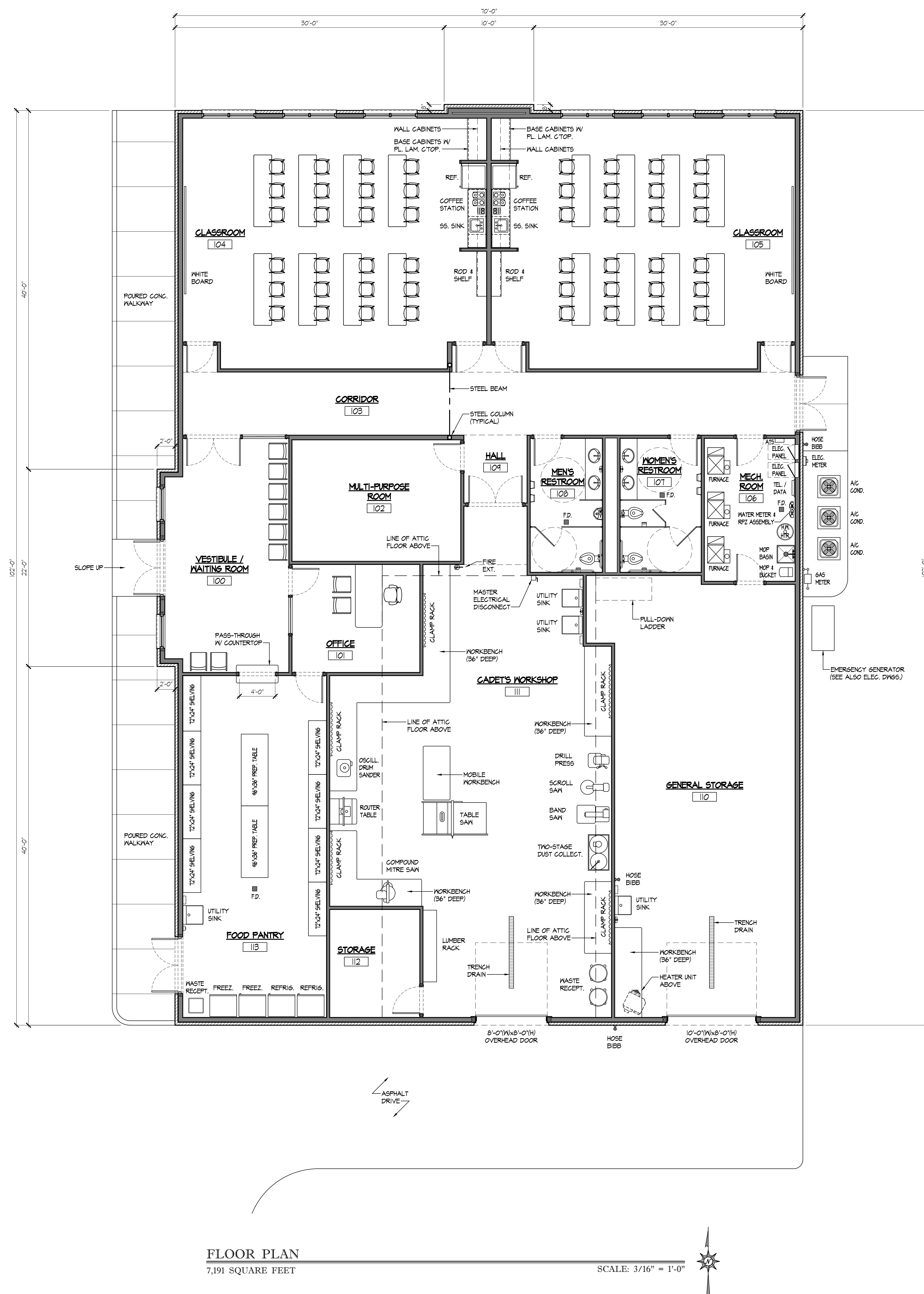
12/3/20	AS-BUILTS
1/6/21	REVIEW
3/11/22	REVIEW
4/21/22	PLAN COMMISSION
6/3/22	REVIEW

EXTERIOR  
ELEVATIONS

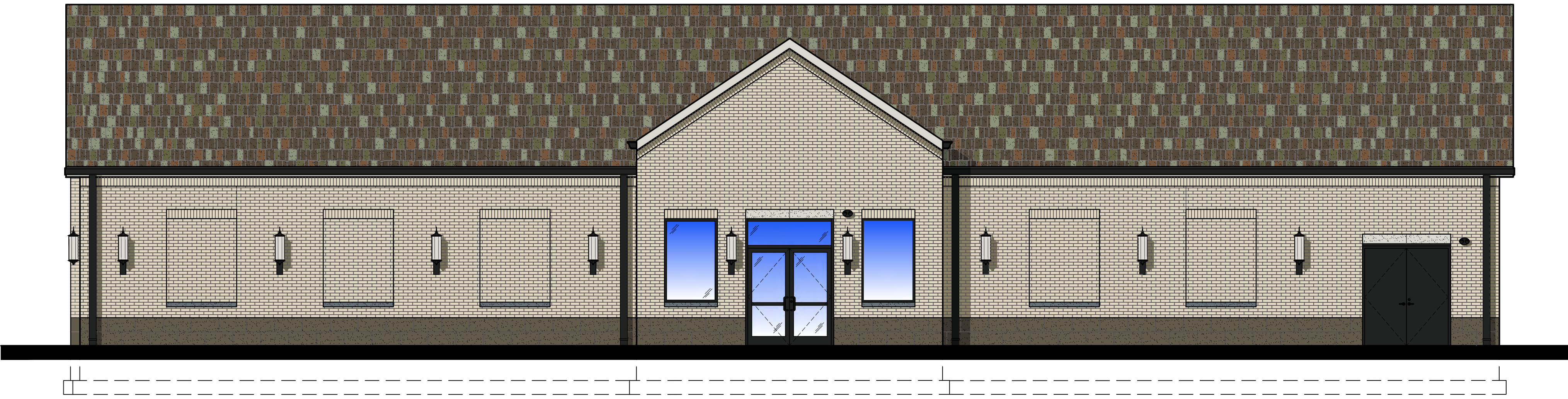
SCALE: AS NOTED  
PROJECT NO.: 20-498

A2









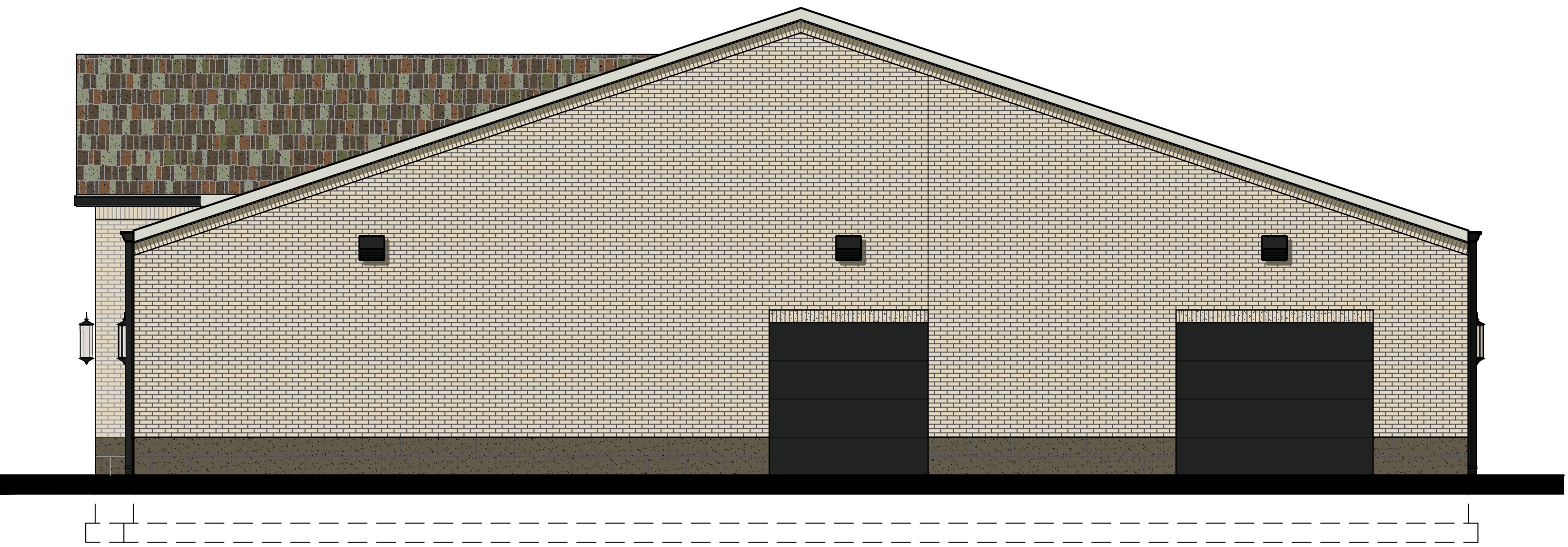
WEST ELEVATION

SCALE: 3/16" = 1'-0"



NORTH ELEVATION

SCALE: 3/16" = 1'-0"



SOUTH ELEVATION

SCALE: 3/16" = 1'-0"



EAST ELEVATION

SCALE: 3/16" = 1'-0"

MUNSTER CHURCH

214 RIDGE ROAD  
MUNSTER, INDIANA  
46321



ROHN ASSOCIATES  
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4/21/22 PLAN  
6/3/22 COMMISSION  
REVIEW

EXTERIOR  
RENDERING

SCALE: AS NOTED  
PROJECT NO.: 20-498

A1



# Torrenga Engineering, Inc.

REGISTERED PROFESSIONAL ENGINEERS

907 RIDGE ROAD  
MUNSTER, INDIANA 46321

www.torrenga.com

Office (219) 836-8918

Fax (219) 836-1138

June 3, 2022

Tom Vander Woude, Planning Director  
Town of Munster  
1005 Ridge Road  
Munster, IN 46321

**Subject:** Munster Church Addition  
Zoning Review Comments

The following are responses to the comments per the May 17, 2022 email:

## **Parking**

1. TABLE 26-6.405.O-1 VEHICULAR PARKING REQUIREMENTS Place of Worship: 1 per 3 auditorium seats + adequate bus space for activities of institution + passenger loading space. **Number of seats in church not shown on plans. This is needed to determine required parking.**

*Response: The number of seats in the sanctuary has been added to the Site Plan, Sheet C-2.0, and the required number of spaces has been added as well.*

2. TABLE 26-6.405.O-1 VEHICULAR PARKING REQUIREMENTS Place of Assembly: .3 spaces per capacity determined by Town Fire Chief. **Occupancy of accessory building not shown on plans. This is needed to determine required parking.**

*Response: The number of seats in the new accessory building has been added to the Site Plan, Sheet C-2.0, and the required number of spaces has been added as well.*

3. TABLE 26-6.405.O-6 BICYCLE PARKING REQUIREMENTS 1 bike parking space required per 5000 sf of floor area. **No bike parking shown.**

*Response: A 5' x 9' bike rack area has been added near the south east corner of the new building addition at the edge of the sidewalk as can be seen on the Site Plan, Sheet C-2.0.*

**Additional Note: Accessory Structure Standards**

1. My interpretation of the Munster zoning ordinance is that the CIVIC DISTRICT building standards do not apply to the Munster CRC Outbuilding if it is classified as an Accessory Building. The Plan Commission may rule that these standards do apply to accessory buildings, in which case the only applicable standard is the requirement that the roof pitch be 8:12 – 14:12.

*Response: A note has been added to the Site Plan, Sheet C-2.0, that notes that the pitch of the new accessory building's roof is to be 8:12.*

*Every effort has been made to meet the requirements stated in the comments.  
Enclosed are the revised Engineering Plans and other information pertaining to the project.*

Sincerely,

A handwritten signature in black ink, reading "Donald C. Torrenge". The signature is written in a cursive, flowing style with a large, prominent 'D' and 'T'.

Donald C. Torrenge, P.E.  
Torrenge Engineering, Inc.



SENT VIA EMAIL



**To:** Don Torrenga  
**From:** Tom Vander Woude, Planning Director  
**Date:** May 17, 2022  
**Re:** Munster Church Addition  
**Cc:** Jill DiTommaso, Town Engineer

---

I've conducted a zoning review of the plan set for the Munster Christian Reformed Church addition submitted via email on April 22, 2022. Additional engineering comments may be forthcoming. Please address the following:

#### **CIVIC ZONE BUILDING AND LOT STANDARDS**

1. TABLE 26-6.405.B CIVIC ZONE STANDARDS Façade Position – required to be parallel to straight Frontage Line or to tangent of curved Frontage Line. ***Building does not meet standard.***  
**VARIANCE REQUESTED**
2. TABLE 26-6.405.B CIVIC ZONE STANDARDS Façade Design Proportions - Must be based approximately either on (a) proportions that can be expressed as a fraction using whole numbers (e.g. 1:1, 2:1, 3:2, 4:3, etc) or (b) the following proportions: 1.414:1 or 1.618:1.  
***Building proportions are not identified on drawings. This is needed to determine if standard is met.*** Proportion added to exterior elevation sheet
3. TABLE 26-6.405.B CIVIC ZONE STANDARDS Facade Void Area – required to be 20-60% of total Facade area. ***Façade void area calculation is not shown on drawings. This is needed to determine if standard is met.*** Calculations added to exterior elevation sheets. Accessory building compliance is not regulated
4. TABLE 26-6.405.B CIVIC ZONE STANDARDS Roof Type and Pitch - Pitch, if any 8:12 - 14:12. ***Roof pitch of church building addition is not identified on the plans. This is needed to determine if standard is met.*** VARIANCE REQUESTED FOR MULTI-PURPOSE PITCH ROOF. Roof pitches added to the exterior elevations. The roof pitch on the multi-purpose needs to be as drawn so that the roof ridge is not taller than the main north/south roof ridge. Accessory building not regulated.
5. TABLE 26-6.405.B CIVIC ZONE STANDARDS Main Entrance must be in Facade of Principal Frontage. ***There is no pedestrian access from Ridge Road to the entrances on the north side of the building.*** VARIANCE REQUESTED. The existing main entry has stairs leading to the existing walkway at Ridge Road. The church stated that nobody uses this entry and is somewhat dangerous because the walk is up against the road. They want to beautify this area by removing the existing stairs and replacing with a patio that can be used for safe gathering space for the members and for people attending special events such as a wedding. A new walk on the east

side of the addition has been added to give ADA access from Ridge Road to the rear and side entrances.

## LIGHTING

1. SECTION 26-6.405.Q.2.b A lighting standard shall be of a height and design consistent with the surrounding area Buildings but in no event higher than twenty feet (20'). **New or relocated light poles are shown to be 25 feet tall. Light poles have been reduced in height to 20 ft.**
2. SECTION 26-6.405.Q.3.a Illumination of Parking Areas, Parking Lots, Parking Structures, and all pedestrian ways shall be provided at an average of 1.0-2.5 footcandles and a minimum of 0.4 foot-candles. **Areas of the parking lot and the sidewalk do not meet the minimum illumination standard. Lighting plan adjusted to comply with item 6 below. There are a few locations that fall slightly under the .4 foot-candle minimum near the rear of the parking lot. This is the only way to keep the light from bleeding over the property line.**
3. SECTION 26-6.405.Q.3.c Color temperature of lighting shall not exceed 3000K. **New wall sconces and new or relocated parking lot lights exceed the maximum color temperature at 3500K and 4000k, respectively. Light fixture specs and colors adjusted to comply**
4. SECTION 26-6.405.Q.4 Lighting fixtures must be full cut off or fully shielded and directed down. **New wall sconces and new or relocated parking lot lights are not full cut off and are not directed down. Light fixture spec adjusted to comply**
5. Illumination at lot line. **The photometric plan shows light bleeding into the residential properties to the south. Lighting plan adjusted to comply**
6. TABLE 26-6.26-6.405.Q-1 Head/Luminaire Types. Colonial, Coach, and Acorn types permitted. **New or relocated parking lot lights are not a permitted type. VARIANCE REQUESTED**

## LANDSCAPING

1. SECTION 26-6.405.O.1.h.vii.l.1) Parking Areas and Parking Lots shall contain at least one landscape island for every ten (10) parking spaces. Parking Lots with more than one landscape island shall have such islands distributed throughout the Parking Lot. **Only three parking lot islands are provided. VARIANCE REQUESTED.. Adding the amount of islands required for compliance within an existing parking lot would reduce the number of parking spaces and result in non-conformance. Additionally, it would be cost prohibitive to redesign the entire parking lots**
2. SECTION 26-6.405.O.1.h.vii.l.2) Interior parking rows shall be terminated at both ends with landscape islands. **Only three parking lot islands are provided. VARIANCE REQUESTED**
3. SECTION 26-6.405.O.1.h.vii.l.3) Each parking island shall be of a minimum size equal to a standard parking space; provided that each parking island abutting two rows of head to head parking spaces shall be of a minimum size and length equal to two (2) parking spaces. **One of the three parking lot islands does not meet the minimum size. Island size changed to comply**
4. SECTION 26-6.405.O.1.h.vii.l.7) For every 2,000 square feet of Parking Area or Parking Lot, at least one Tree shall be installed or preserved within the Parking Area or Parking Lot except to the extent that Trees outside of the Lot containing the Parking Area or Parking Lot are allowed to satisfy this requirement as set forth below. ) Trees outside of the Parking Area or Parking Lot located within twenty feet (20') of the closest portion of such Parking Area or Parking Lot, including but not limited to Trees within Thoroughfare Rights-of-Way and Civic Spaces, may be



counted toward satisfying the requirements. **Calculation not provided. This is needed to determine if standard is met.** Reference revised landscape drawing

5. SECTION 26-6.405.O.1.h.vii.II Any Parking Area or Parking Lot in the First or Second Lot Layer shall be Screened from view in accordance with the following: The Parking Area or Parking Lot shall be Screened from the public right-of-way with a perimeter planting strip a minimum of 7 feet in width from front to back planted adjacent to the public right-of-way containing all of the following:
  - a. A hedge screen between 3 feet and 3.5 feet in height adjacent to the edge of the public right-of-way.
  - b. Shade trees planted at a rate of one per 30 feet of linear frontage (where overhead utility conflicts prohibit shade trees, small or medium trees shall be planted at intervals equal to their mature canopy).
  - c. An ornamental metal fence screen or a wall screen between 3 feet to 3.5 feet in height installed a minimum of two feet from the inside of the parking area or parking lot curb.

***The plans do not show any screening of the west parking lot. The Planning Director may modify the amount of landscaping required by this Section for existing parking areas or parking lots, including exempting existing parking areas or parking lots from providing landscaping, if such landscaping would reduce the number of parking spaces and result in a nonconformity. VARIANCE REQUESTED. See response to item 1 above***

6. SECTION 26-6.405.S.2 2. Streetscape Repairs, Replacements & Improvements. Prior to the issuance of any Certificate of Occupancy for a Building or Improvement, the following Streetscape improvements, repairs, or replacements shall be provided by the Lot Owner with respect to each Building or Improvement and the Streetscape that Enfronts the applicable Lot:
  - b. If the Public Frontage Adjacent to the applicable Lot does not include a Sidewalk, Thoroughfare Trees, or street lights, any such absent element that would have been required pursuant to Section 26-6.502 if the Building or Lot were within a Development Parcel shall be provided by the Lot Owner in accordance with the following standards and requirements:
    - i. If there is no planter strip or plant well, planting accommodations shall be constructed along the entire Front Lot Line which planting accommodations shall match any existing planter strip or plant well Enfronting an Adjacent Lot, or if there is none, shall conform to Thoroughfare standards for the applicable District or Civic Zone, as set forth in Section 26-6.502 as if such Thoroughfare standards were applicable.
    - iii. If there is no Thoroughfare Tree within the Frontage Adjacent to the Lot, one or more Thoroughfare Trees shall be installed along the Front Lot Line, which Trees shall meet the tree shape, spacing, and size standards for the applicable District or Civic Zone as set forth in Section 26-6.502, as if such standards were applicable.
  - c. If there is not sufficient public right-of-way area for all or any of the required Streetscape repairs, replacements, or improvements as set forth in this Section 26-6.405.S, such element or elements shall be provided within the Lot Adjacent to the public right-of-way and the property owner shall grant a perpetual non-exclusive easement for public use of such elements.

**The planting strip adjacent to the sidewalk should include shade trees planted 30 feet on center. See revised landscape drawing. There are some existing utilities located along Ridge Road that prohibit meeting the standard completely.**

## PARKING

1. TABLE 26-6.405.O-1 VEHICULAR PARKING REQUIREMENTS Place of Worship: 1 per 3 auditorium seats + adequate bus space for activities of institution + passenger loading space. **Number of seats in church not shown on plans. This is needed to determine required parking.** The number of sanctuary seats has been added to the architectural floor plan and the civil site plan.
2. TABLE 26-6.405.O-1 VEHICULAR PARKING REQUIREMENTS Place of Assembly: .3 space per capacity determined by Town Fire Chief. **Occupancy of accessory building not shown on plans. This is needed to determine required parking.** Refer to the occupant load calculation below for the accessory building as governed by the state building code. I have also listed the number of seats within the multi-purpose room. The sanctuary seats, multi-purpose seats and accessory building would never be fully occupied all at the same time. We chose to use the multi-purpose room seat count for our parking calculation, which would require the larger number of parking spaces (74 spaces). The parking tabulations shown on the civil site plan shows the worst case scenario and indicates compliance.

### Accessory Building Occupant Load (based on IBC sf per person)

92	20.	Classroom
27	50.	Shop area
2	100.	Office
23	15.	Waiting (seems excessive)
1	300.	Mechanical
6	300.	Storage (including food drive area)
17	15.	Meeting room (seems excessive)
166		<b>Total Occupants</b>

$$166 \times .3 = 50 \text{ spaces}$$

### Multi-Purpose Room Seat Count (based on IBC sf per person)

181	15.	Main Building Multi-purpose Room Sq. Ft. = 2,709 (minus storage closets)	
1		Storage Room Sq. Ft. (x2)	= 196
		Total Sq. Ft.	= 2,905
182		<b>Total Occupants</b>	

$$182 \times .3 = 55 \text{ spaces}$$

$$222 \text{ seats divided by } 3 = 74 \text{ spaces}$$

3. TABLE 26-6.405.O-6 BICYCLE PARKING REQUIREMENTS 1 bike parking space required per 5000 sf of floor area. **No bike parking shown. Refer to revised civil site plan and response**



## **SIGNS**

1. ***All signs will be approved administratively under a sign permit.***

### **Additional Note: ACCESSORY STRUCTURE STANDARDS**

*My interpretation of the Munster zoning ordinance is that the CIVIC DISTRICT building standards do not apply to the Munster CRC Outbuilding if it is classified as an Accessory Building. The Plan Commission may rule that these standards do apply to accessory buildings, in which case the only applicable standard is the requirement that the roof pitch be 8:12 – 14:12. I agree with your assessment. Please help us convince the Plan Commission. The new building replaces a few cruddy looking accessory buildings and is set far back off the road with new green space in front of it. Even so, we have designed an all masonry building with a great looking front facing Ridge Road.*