

# **LAKE ORION UNITED METHODIST CHURCH**

## **PARKING LOT RENOVATION PROJECT**

### **PROJECT NARRATIVE / COVER LETTER**

**August 27, 2026**

**Orion Township  
Building Department**

**Village of Lake Orion  
Planning / Zoning Department  
Lake Orion, Michigan 48362**

**Re: Parking Lot Renovation – 140 E. Flint Street / 29 Slater Street  
Parcel ID: 09-02-485-027  
Lake Orion United Methodist Church**

Dear Orion Township and Village of Lake Orion:

Lake Orion United Methodist Church respectfully submits the enclosed engineering plans and project specifications for the proposed renovation and reconstruction of the Church's existing parking lot located at 140 E. Flint Street / 29 Slater Street, Lake Orion, Michigan.

The proposed project is intended to reconstruct and improve the existing parking facility, which primarily serves as overflow parking for the Church. The project does not include a building addition, building expansion, or change in the existing use of the property.

### **Project Overview**

The proposed improvements have been designed by Sharpe Engineering, Inc. and include the following:

- Removal and replacement of the existing deteriorated asphalt pavement.
- Removal of designated existing brick pavers and other site features.
- Removal of the existing drainage basin identified on the plans.
- Limited removal of existing site improvements, including an existing wooden utility pole.
- Regrading of the parking area to improve surface drainage.
- Preparation and stabilization of the existing subgrade.
- Installation of a new aggregate base and HMA pavement section.
- Installation of approximately 40 feet of 12-inch perforated HDPE storm piping.
- Installation of a new underground stormwater infiltration/leaching basin.
- Installation of concrete reverse curb and gutter.
- Construction of designated landscape/greenbelt areas.

- Installation of protective yellow steel bollards and parking blocks.
- Installation of a new approximately 5.5-foot-wide pedestrian walkway.
- Installation of parking space striping and pavement markings.
- Restoration of disturbed lawn and landscape areas.

The engineering plans identify the limits of disturbance at approximately 0.31 acre. The plans also indicate that the development area is less than one acre and therefore a soil erosion permit is not required; however, appropriate soil erosion and sedimentation control measures will be installed and maintained throughout construction.

## **Existing Use and Parking**

The project will maintain the existing use of the property as a parking facility associated with Lake Orion United Methodist Church. The parking lot is intended primarily to provide overflow parking for the Church.

The project does not propose additional building area or a change in land use. The proposed improvements are intended to modernize and reconstruct the existing parking area while improving its condition, drainage, pedestrian circulation, and overall appearance.

The engineering plans indicate that no additional ADA parking spaces are proposed or required within this parking lot, as existing accessible parking is available in the existing parking areas serving the Church.

## **Stormwater Management**

A significant component of the project is the improvement of existing site drainage.

The proposed improvements include a new **12-inch perforated HDPE storm pipe and leaching basin system**, connected to the existing stormwater infrastructure. The grading plan has been developed to establish positive drainage across the reconstructed parking area and direct stormwater to the proposed infiltration system.

The proposed stormwater improvements are intended to improve the existing drainage conditions associated with the parking lot and manage stormwater as shown on the engineered plans.

## **Construction and Site Protection**

Construction will be performed within the limits shown on the engineering plans. Temporary erosion and sedimentation controls will be installed prior to construction and maintained throughout the project.

The contractor will be responsible for:

- Protecting adjacent properties and existing improvements.
- Protecting existing trees and vegetation designated to remain.

- Maintaining safe construction access.
- Preventing construction debris and sediment from entering public streets or adjacent properties.
- Restoring disturbed areas following completion of construction.
- Complying with applicable Village, County, State, and other agency requirements.

The engineering plans specifically provide for approximately 430 linear feet of sediment control fence and require ongoing inspection and maintenance of erosion-control measures.

## **Engineering and Construction Standards**

The project has been designed by Sharpe Engineering, Inc., with the engineering plans dated August 6, 2026. Construction will be performed in accordance with the approved engineering plans, applicable Orion Township, Village of Lake Orion requirements, applicable Oakland County requirements, and applicable Michigan standards referenced in the plans.

The proposed pavement section consists of an 8-inch minimum compacted 21AA aggregate base, 2.5 inches of HMA 4EL, and 1.5 inches of HMA 5EL, for a total HMA thickness of 4 inches.

## **Request for Review**

Lake Orion United Methodist Church respectfully requests the Township's and Village's review of the enclosed plans and specifications and confirmation of the applicable approval and permitting requirements for this project.

Because the project consists of the reconstruction and improvement of an existing parking facility, with no building expansion or change in use proposed, the Church respectfully requests consideration of the project under the Township's and Village's applicable administrative/site improvement review process, if permitted by ordinance.

We appreciate the Township's and Village's assistance in reviewing this project and are committed to working with your staff, the appropriate reviewing agencies, and our engineer to address any comments or requirements necessary for approval.

Please contact us if additional information, documentation, engineering calculations, or revisions are required.

Sincerely,

***Brad Smiles***

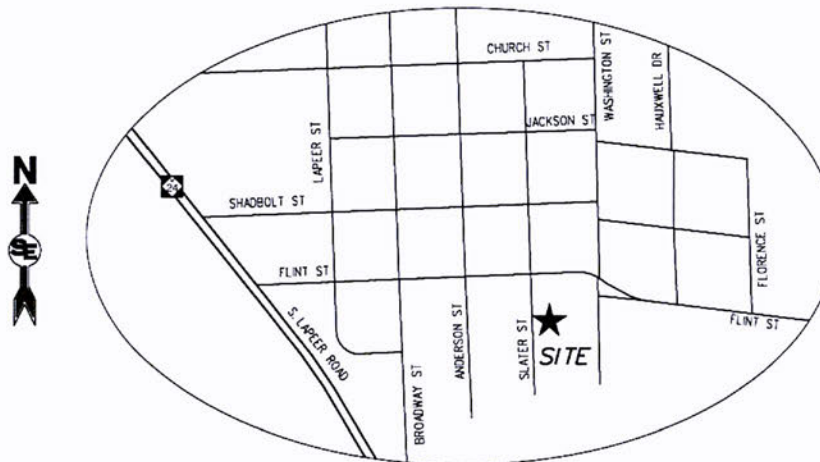
**Brad Smiles**

Lake Orion United Methodist Church  
140 E. Flint Street, Lake Orion, MI 48362



# LAKE ORION UNITED METHODIST CHURCH PARKING LOT RENOVATIONS

VILLAGE OF LAKE ORION, OAKLAND COUNTY, MICHIGAN



LOCATION MAP  
(1"=250')

## GENERAL PROVISIONS

THE IMPROVEMENTS BY THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION. THE CURRENT MICHIGAN DEPARTMENT OF TRANSPORTATION ROAD & BRIDGE STANDARD PLANS, ROAD COMMISSION FOR OAKLAND COUNTY SPECIFICATIONS, AND THE CURRENT STANDARDS AND SPECIFICATIONS OF ORION TOWNSHIP.

PAVEMENT MARKINGS AND PLACING OF TRAFFIC CONTROL SIGNS SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

THE LOCATIONS OF ALL PUBLIC UTILITIES SHOWN ON THESE PLANS ARE TAKEN FROM THE BEST AVAILABLE DATA. PURSUANT TO ACT 53 OF THE P.A. OF 1974, AS A CONDITION OF THIS CONTRACT, NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK TO BE PERFORMED IN ACCORDANCE TO THIS CONTRACT. PHONE (800) 482-7171 OR 811. ALL UTILITY SERVICE CONNECTIONS MAY NOT BE SHOWN ON THESE PLANS.

## SHEET INDEX

- COVER SHEET
- C1.0 EXISTING CONDITIONS
- C2.0 DEMOLITION & SESS PLAN
- C3.0 SITE PLAN
- C4.0 GRADING PLAN

## STANDARD DETAIL SHEETS

1 OF 1 WRC SOIL EROSION AND SEDIMENT CONTROL DETAILS

## PROJECT DESCRIPTION

THE PROPOSED PROJECT CONSISTS OF THE RECONSTRUCTION OF AN EXISTING ASPHALT PARKING LOT.



| DATE | SUBMITAL | NOTE |
|------|----------|------|
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|      |          |      |
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|      |          |      |
|      |          |      |

**MISS DIG SYSTEM**  
CALL 800-482-7171 OR 811  
CONTACT THE MISS DIG SYSTEM TO LOCATE UTILITIES PRIOR TO ANY EXCAVATION

THE ENGINEER HAS REVIEWED THE PLANS AND SPECIFICATIONS AND HAS FOUND THEM TO BE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE CURRENT MICHIGAN DEPARTMENT OF TRANSPORTATION ROAD & BRIDGE STANDARD PLANS, ROAD COMMISSION FOR OAKLAND COUNTY SPECIFICATIONS, AND THE CURRENT STANDARDS AND SPECIFICATIONS OF ORION TOWNSHIP.

JAMES R. SHARPE  
PROFESSIONAL ENGINEER  
NO. 877045639



DEVELOPED FOR:  
LAKE ORION  
UNITED METHODIST  
CHURCH  
110 E. DUNT ST  
LAKE ORION, MI 48042

COVER SHEET  
LAKE ORION UNITED METHODIST CHURCH

CITY: VILLAGE OF LAKE ORION  
COUNTY: OAKLAND  
SECTION: 02  
T: 4 4 4 4 4 4 4 4

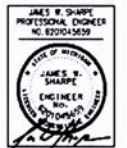
DATE: 08/06/26  
SUBMITAL: 08/06/26  
SCALE: N/A  
SHEET: COVER  
PROJECT: 073.01.01



|          |  |
|----------|--|
| DATE     |  |
| DRAWN    |  |
| CHECKED  |  |
| APPROVED |  |

**MSS DIG SYSTEM**  
CALL 800-482-7171 OR 811  
CONTACT THE MSS  
DIG SYSTEM & WORKING  
DAYS IN ADVANCE

THE OWNER & ENGINEER ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED BY THE MSS DIG SYSTEM. THE USER OF THIS SYSTEM SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED BY THE MSS DIG SYSTEM.

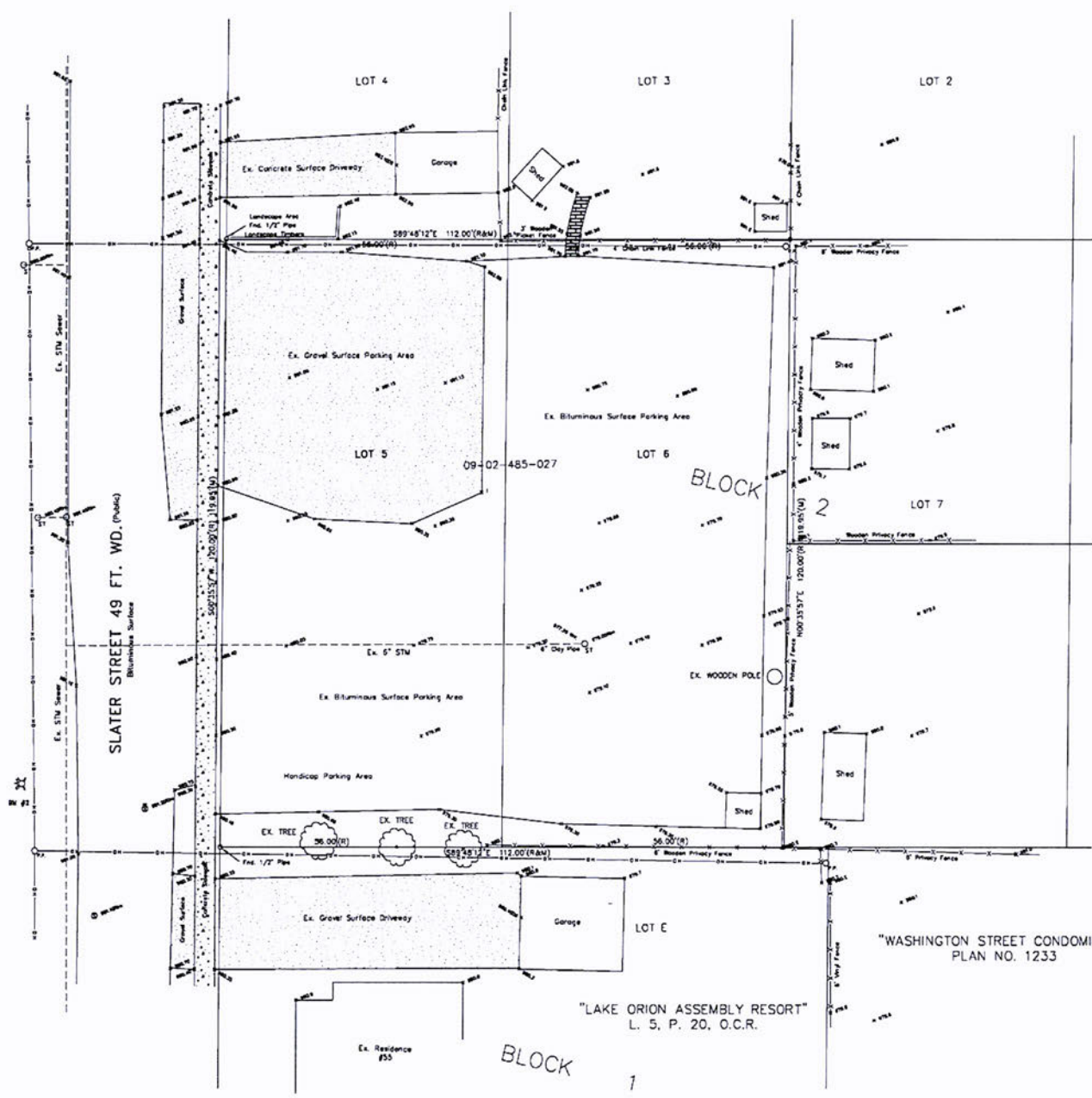


DEVELOPED FOR:  
**LAKE ORION UNITED METHODIST CHURCH**  
101 E. 1ST ST.  
LAKE ORION, MI 48362  
(734) 861-0201

**EXISTING CONDITIONS**  
LAKE ORION UNITED METHODIST CHURCH

CITY OF LAKE ORION  
COUNTY: OAKLAND  
SECTION: 02  
T-4-N, R-10-E  
WITH SUBMITTAL: 08/06/25  
DATE SUBMITTED: 08/06/25  
SCALE: 1" = 10'  
SHEET: C10  
PROJECT: 075.0107

**LEGAL DESCRIPTION**  
LOCATED IN LOTS 5 AND 6  
BLOCK 2 OF HEMINGWAY'S  
PLAT (L.1, P.34, OCR)



- LEGEND:**
- BM 3 = EXISTING ELEVATION
  - BM = BENCH MARK
  - ⊕ = EX. FIRE HYDRANT
  - ⊗ = EX. GATE VALVE & WELL
  - ⊙ = EX. SANITARY SEWER MANHOLE
  - ST = EX. STOP SIGN STRUCTURE
  - PP = EX. POWER POLE
  - = SET 1/2" HIGH ROD W/ CAP
  - = FWD 1/2" HIGH ROD W/ CAP
  - X = EX. FENCE

- [Pattern] = EX. BITUMINOUS SURFACE
- [Pattern] = EX. CONCRETE SURFACE
- [Pattern] = EX. GRAVEL SURFACE
- [Pattern] = EX. BRICK SURFACE

- BENCHMARKS**
- BM #1 - ARSON ON TOP OF FIRE HYDRANT IN FRONT OF FIRE STATION ON ANDERSON STREET  
ELEV. = 175.29 (MAGNETIC)
  - BM #2 - ARSON ON TOP OF FIRE HYDRANT ON WEST SIDE OF SLATER STREET  
ELEV. = 185.29 (MAGNETIC)

"WASHINGTON STREET CONDOMINIUM"  
PLAN NO. 1233

"LAKE ORION ASSEMBLY RESORT"  
L. 5, P. 20, O.C.R.

# NRCS SOILS INFORMATION

| SYMBOL | NAME                                           | ACRES IN AREA | PERCENT OF AREA |
|--------|------------------------------------------------|---------------|-----------------|
| 62B    | URBAN LAND-SPRINKS COMPLEX C12A PERCENT SLOPES | 0.31          | 100%            |

# ESTIMATED CONSTRUCTION SEQUENCE

1. INSTALL EROSION CONTROL MEASURES
2. REMOVE EX. LANDSCAPE ITEMS
3. INSTALL NEW CATCH BASIN
4. GRADE SITE AND PREP SUBBASE FOR PAVING LOT
5. INSTALL PAVING LOT BASE HMA
6. INSTALL TOP HMA LAYER
7. LANDSCAPING & FINAL RESTORATION

| ISSN     | SCHEDULE |
|----------|----------|
| 08/01/24 | 08/01/24 |
| 08/01/24 | 08/01/24 |
| 08/01/24 | 08/01/24 |
| 08/01/24 | 08/01/24 |
| 08/01/24 | 08/01/24 |
| 08/01/24 | 08/01/24 |
| 08/01/24 | 08/01/24 |

NOTE: INSTALL ESEC MEASURES PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. MAINTAIN ALL MEASURES - REPAIRS TO MAINTAIN FUNCTION OF PROJECT AND REPAIR IMMEDIATELY IF THEY BECOME DAMAGED.



# ESTIMATED ESEC QUANTITIES:

|                        |        |
|------------------------|--------|
| SEDIMENT CONTROL FENCE | 430 LF |
| TEMPORARY ACCESS DRIVE | 100 SF |

# REMOVAL AND DEMOLITION NOTES

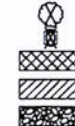
1. CONTACT UTILITY LOCATING FOR UTILITY STAKING PRIOR TO ANY REMOVALS.
2. ALL DEMOLITION ITEMS REMOVED AS PART OF THE CONSTRUCTION ACTIVITIES SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF-SITE BY A SANITATION AND WASTE REMOVAL.
3. ANY ITEMS NOT SPECIFICALLY CALLED OUT FOR DEMOLITION BUT ARE REQUIRED FOR THE SUCCESSFUL COMPLETION OF THIS PROJECT SHALL NOT BE REMOVED BY THE CONTRACTOR. ANY ITEMS NOT SPECIFICALLY CALLED OUT FOR DEMOLITION SHALL BE DEMOLISHED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. ANY DAMAGE TO THE EXISTING SIDEWALKS, PARKING AREAS, CURBS, ETC. OUTSIDE THE SCOPE OF THIS WORK SHALL BE DEMOLISHED AND REPAIRED PER EXISTING CROSS-SECTION AT NO ADDITIONAL COST TO THE OWNER.
5. PROPERTY GATE SHALL BE TAKEN FOR REDEMOLITION ITEMS ALTHOUGH EXISTING YEARS TO REMAIN SUCH AS IRRIGATION BOXES, ROADWAYS, ELECTRICAL RESER, FIRE HYDRANTS, LANDSCAPING, ETC. SO AS NOT TO CAUSE DAMAGE.
6. ALL MATERIALS REMOVED SHALL BE MADE BY EXISTING PULL DEPTH IN STRAIGHT LINES IN THE AREAS OF PROPOSED REMOVALS AND PROTECT EXISTING PAVEMENT TO REMAIN.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE WITHIN THE ROAD ROW.
8. ALL AREAS DISRUPTED BY THE CONTRACTOR OUTSIDE OF THE PROPOSED LIMITS OF CONSTRUCTION SHALL BE PROPERLY GRADDED AND REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
9. ALL BRICK, MAEL, TOPSOIL, STAMPS, AND ANY OTHER UNSUITABLE MATERIAL ENCOUNTERED BY THE PAVING/GRADING CONTRACTOR WITHIN THE SITE SHALL BE REMOVED AND DISPOSED OF AS DIRECTED BY THE ENGINEER. ALL MATERIALS REMOVED SHALL BE REPLACED WITH MATERIALS OF A SIMILAR AND COMPOSITION SIMILAR TO THE ADJACENT MATERIALS SUCH THAT THE FURNISHMENT SHALL BE MECHANICALLY COMPACTED TO 95% OF ITS MAXIMUM DENSITY.

# EROSION CONTROL & LANDSCAPE NOTES

1. ALL SOIL EROSION AND SEDIMENTATION CONTROL ESEC MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CALIFORNIA COUNTY WATER RESOURCES COMMISSIONER AND ADDITIONAL TOWNSHIP STANDARDS. ALL MEASURES ARE TO BE IN ACCORDANCE WITH THE NRCS EROSION AND SEDIMENTATION CONTROL DISTAL SHEET.
2. THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT BY THE CONTRACTOR.
3. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE THE EFFECTIVENESS OF ALL PROJECT ESEC MEASURES. ANY NECESSARY REPAIRS SHALL BE PERFORMED WITHOUT DELAY.
4. ALL SEDIMENT FROM WORK ON THE PROJECT SITE SHALL BE CONTAINED ON-SITE AND NOT BE ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR WATERWAYS. MATERIALS INCLUDE BOTH NATURAL AND MAN-MADE OPEN STRUCTURE, STORM DRAIN, LANDS, POND, AND WETLANDS.
5. CONTRACTOR SHALL APPLY TEMPORARY ESEC MEASURES AS DIRECTED ON THESE PLANS. CONTRACTOR SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER CHANGES HAVE BEEN ESTABLISHED.
6. STAKING THE WORK SHALL BE DONE BY CONTRACTOR AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED LANDS.
7. THE CONTRACTOR SHALL PRESERVE NATURAL VEGETATION OUTSIDE OF THE GRADING AREAS AS MUCH AS POSSIBLE.
8. VEGETATION STABILIZATION OF ALL DISTURBED AREAS SHALL BE ESTABLISHED WITHIN 15 DAYS OF COMPLETION OF FINAL GRADING.
9. PROTECT ALL TREES TO REMAIN, INCLUDING THEIR BRANCHES AND ROOTS FROM DAMAGE DUE TO THIS WORK.
10. INSTALL ESEC MEASURES PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. MAINTAIN ALL MEASURES THROUGHOUT DURATION OF PROJECT AND UNTIL NEW VEGETATION HAS BEEN ESTABLISHED.
11. ALL MOTOR VEHICLES, TRUCKS, OR OTHER EQUIPMENT SHALL BE PROHIBITED FROM THIS SITE DUE TO CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR BY THE END OF THE WORKING DAY. USE MECHANICAL DIRTSPREADER FREQUENTLY.
12. ALL PERMANENT ESEC MEASURES SHALL BE INSTALLED AND OPERATIONAL BEFORE A FINAL CERTIFICATE OF COMPLIANCE IS ISSUED. TEMPORARY ESEC MEASURES SHALL BE MAINTAINED UNTIL PERMANENT ESEC MEASURES HAVE BEEN IMPLEMENTED.
13. REMOVAL OF AN EROSION CONTROL POINT DOES NOT NEGATE THE NEED FOR ANY OTHER FEDERAL, STATE, OR LOCAL REGULATIONS.
14. ANY ESEC STRUCTURES WHICH BECOME TORN, RUINED, FALLEN, OR FAIL TO PREVENT EROSION AS INTENDED, SHALL BE IMMEDIATELY REMOVED AND REPLACED.
15. ANY MULCH OR SOIL STABILIZATION MEASURES WHICH ARE OBTAINED DUE TO CONSTRUCTION, HEAVY RAIN EVENTS, ETC. SHALL BE RESTORED IMMEDIATELY TO PREVENT FURTHER EROSION.
16. SHOULD DISTURBING BE REQUIRED, IT SHALL BE DONE IN A MANNER WHICH WILL NOT CONTRIBUTE TO DEPOSITION OF SEDIMENT INTO NATURAL OR MAN-MADE CHANNELS.
17. ADDITIONAL DISRUPTION OUTSIDE OF THE INDICATED LIMITS SHALL BE RESTORED IN ACCORDANCE WITH THE LANDSCAPE SPECIFICATIONS BUT SHALL NOT BE PAID FOR SEPARATELY.
18. SITE RESTORATION SHALL BE PERFORMED BY PLACING 7" OF TOPSOIL WITH SEED AND MULCH BLANKETS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. (LOCAL STRAW IS NOT ACCEPTABLE).
19. ALL REQUIRED LANDSCAPE RESTORATION INCLUDING TOPSOIL, SEEDING, AND MULCHING SHALL BE PERFORMED IN ACCORDANCE WITH ADDITIONAL TOWNSHIP STANDARDS AND SPECIFICATIONS.

# DEMOLITION LEGEND

- REMOVE TREE
- REMOVE STRUCTURE
- REM. EX. BUILDING
- REM. EX. ASPHALT / BRICK PAVERS
- TEMPORARY ACCESS DRIVE (SP - 9)



# SOIL EROSION LEGEND

- SILT FENCE
- LIMITS OF DISRUPTION (SP-2)



THE DEVELOPMENT AREA IS LESS THAN 1.00 ACRE IN SIZE. THEREFORE A WRC SOIL EROSION PERMIT IS EXEMPT.

SE  
SHAWNEE  
ENGINEERING, INC.  
1111 N. SHAWNEE  
PO BOX 1000  
SHAWNEE, KS 66201

MISS DIG SYSTEM  
CALL 800-487-7171 OR 811  
CONTACT THE MISS DIG SYSTEM  
DAYS IN ADVANCE

JAMES W. SHAWNEE  
PROFESSIONAL ENGINEER  
NO. 620145658

DEVELOPED FOR  
LAKE ORION UNITED METHODIST CHURCH  
1401 E. 10TH ST  
LAKE ORION, MI 48042  
(586) 461-1001

DEMOLITION & ESEC  
LAKE ORION UNITED METHODIST CHURCH

CITY OF LAKE ORION  
COUNTY: OAKLAND  
SECTION: 02  
1" = 4' H. & V. 1" = 10' V.

DATE SUBMITTED: 08/06/24  
DATE: 08/06/24  
SCALE: 1" = 10'  
SHEET: 02.0  
PROJECT: 075.01.01

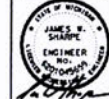


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**MISS DIG SYSTEM**  
**ANY STATE ANY**  
**800-482-7171 OR 813-993-3333**  
**CONTACT THE MISS DIG SYSTEM 3 WORKING DAYS IN ADVANCE**

[illegible]

JAMES W. SHARPE  
PROFESSIONAL ENGINEER  
NO. 8701043659



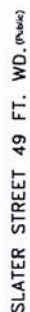
DEVELOPED FOR  
LAKE ORION  
UNITED METHODIST  
CHURCH  
140 E. FLINT ST  
LAKE ORION, MI 48362  
248.853.6201

GRADING PLAN

**CHINA AND THE**

|                              |
|------------------------------|
| CITY: VILLAGE OF LAKE FOREST |
| COUNTY: CLACKAMAS            |
| SECTION: 02                  |
| T-4-N, R-10-E                |

|           |           |
|-----------|-----------|
| INITIAL   | 08/08/29  |
| SUBMITTA: | 08/08/29  |
| THIS      |           |
| SUBMITTA: |           |
| SCALE:    | 1" = 10'  |
| SHEET:    | C4.0      |
| PROJECT:  | 075.01.01 |



James M. Smith

### K. STM Sensor

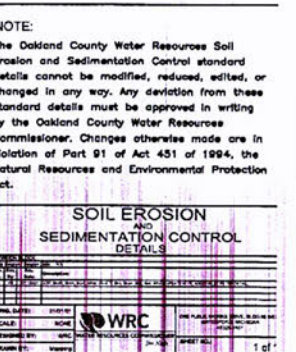
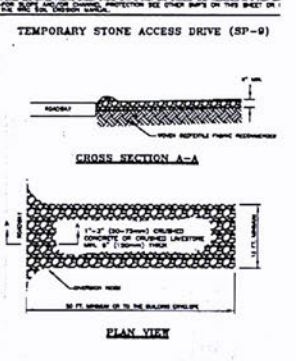
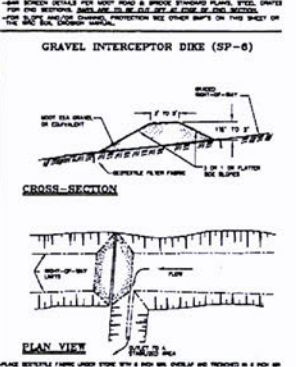
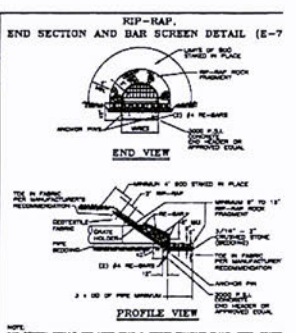
**BENCHMARKS**

**BB 01** - AVERAGE IN TOP OF THE HYPERFIRE IN FRONT OF THE STATION IN AVERAGE 5.1000  
5.11 - 5.12 IN AVERAGE

**BB 02** - AVERAGE IN TOP OF THE HYPERFIRE IN AVERAGE 5.1000  
5.11 - 5.12 IN AVERAGE

### GRADING LEGEND

|                       |                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------|
| TOP OF CURB ELEV.     | XXXX TC                                                                               |
| GUTTER ELEV.          | XXXX G                                                                                |
| TOP OF PVMT ELEV.     | XX.XX TP                                                                              |
| TOP OF SHOULDER ELEV. | XX.XX TS                                                                              |
| FINISH GRADE ELEV.    | XX.X FG                                                                               |
| RIM ELEV.             | XXXX R                                                                                |
| DRAINAGE PATTERN      |  |



**NOTE:**  
The Oakland County Water Resources Soil Erosion and Sedimentation Control standard details cannot be modified, reduced, edited, or changed in any way. Any deviation from these standard details must be approved in writing by the Oakland County Water Resources Commissioner. Changes otherwise made are in violation of Part 91 of Act 431 of 1994, the Natural Resources and Environmental Protection Act.

[illegible]