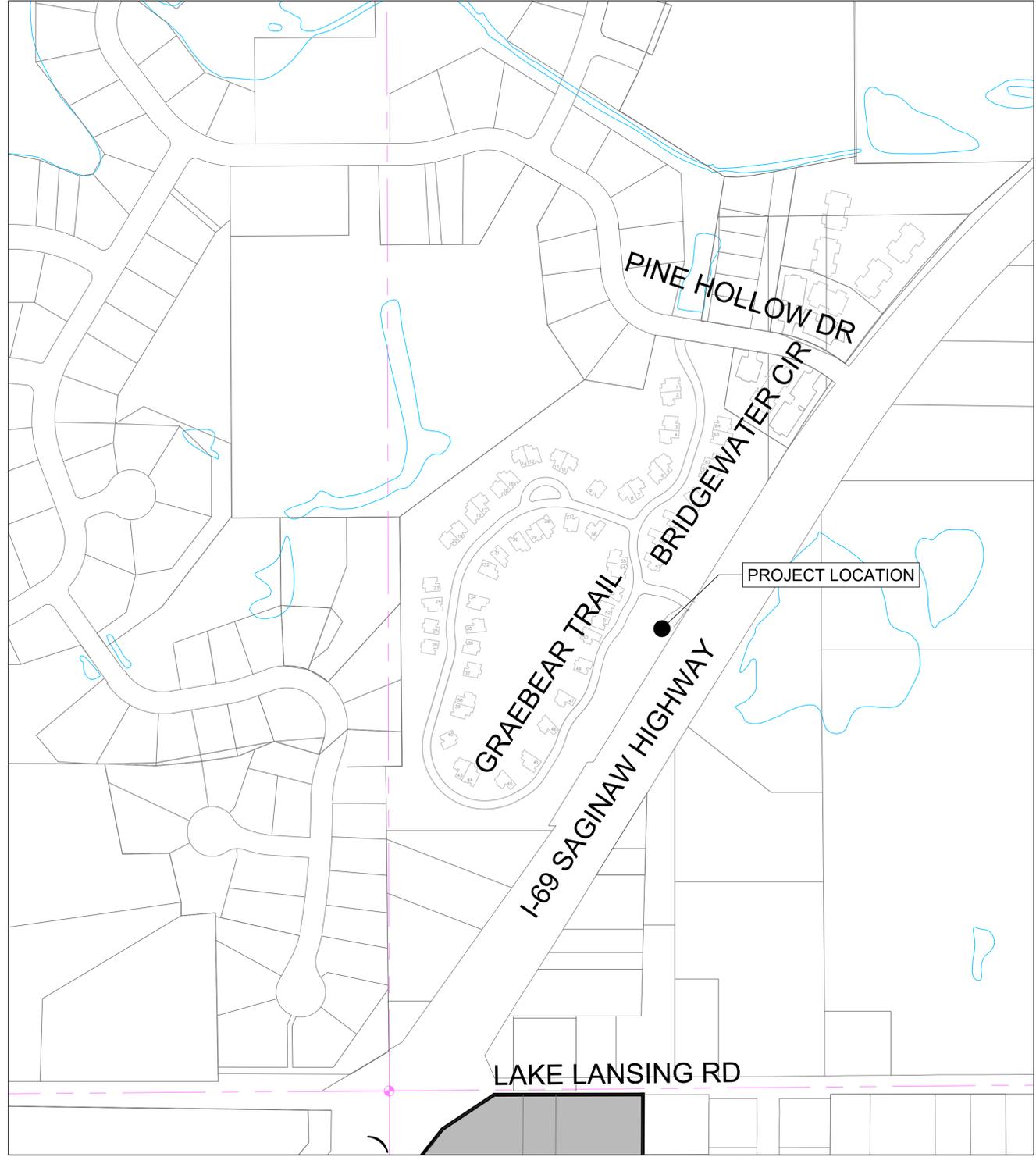
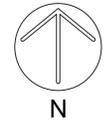


| UTILITY COMPANY                                                                              | UTILITIES                                 |
|----------------------------------------------------------------------------------------------|-------------------------------------------|
| AT&T<br>337 N. ABBOTT, RM. 201<br>EAST LANSING, MI 48823<br>517.337.3660                     | TELEPHONE                                 |
| CONSUMERS ENERGY<br>530 W. WILLOW ST.<br>P.O. BOX 30162<br>LANSING, MI 48909<br>517.373.6100 | GAS<br>ELECTRIC                           |
| COMCAST<br>1070 TROWBRIDGE ROAD<br>EAST LANSING, MI 48823<br>517.332.1012                    | CABLE TV                                  |
| MERIDIAN TOWNSHIP<br>5151 MARSH RD.<br>OKEMOS, MI 48864<br>517.853.4440                      | WATER MAINS<br>SANITARY SEWER<br>PATHWAYS |
| WOLVERINE PIPE LINE<br>8105 VALLEYWOOD LANE<br>PORTAGE, MI 49024-5251<br>231.323.2491        | PETROLEUM PIPELINE                        |
| INGHAM COUNTY DRAIN<br>COMMISSIONER<br>707 BUHL ST.<br>MASON, MI 48854<br>517.676.8395       | DRAINS<br>STORM SEWER                     |
| INGHAM COUNTY ROAD DEPT<br>301 BUSH ST.<br>MASON, MI 48854<br>517.676.9722                   | PUBLIC ROADS AND<br>RIGHTS OF WAY         |

# WHITEHILLS LIFT STATION BYPASS CONSTRUCTION PLANS FOR MERIDIAN TOWNSHIP INGHAM COUNTY, MICHIGAN



- STANDARD CONSTRUCTION NOTES**
- The Contractor shall notify the Charter Township of Meridian, Department of Public Works, Office of Engineering 517-853-4440 a minimum of 72 hours prior to the start of construction of public utilities or of construction within the public right-of-way.
  - All construction shall conform to the current standards and specifications of the Charter Township of Meridian which are included as part of these plans in effect at the time of construction.
  - After the completion of construction of public utilities or construction within public right-of-way, the contractor must request a final inspection. Any punchlist items resulting from the final inspection must be resolved prior to final release and acceptance.
  - The existing utilities indicated on the plans are in accordance with available information. It shall be the contractor's obligation to verify the exact location of all existing utilities, which might affect this job.
  - The contractor shall notify "MISS DIG" 1-800-482-7171 at least 72 hours prior to the start of construction.
  - The contractor shall at all times be aware of inconvenience caused to the abutting property owners and the general public. Where the contractor does not remedy undue inconveniences, the Charter Township of Meridian, upon four hours notice, reserves the right to perform the work and deduct the cost therefore from the money due the contractor.
  - A Registered Land Surveyor provided by the contractor at the contractor's expense shall replace all property irons and monuments disturbed or destroyed by the contractor's operations.
  - Contractor shall provide Owner and Township Engineer a copy of written permission to use private property for storage of equipment and materials or for his construction operations.
  - Trench backfill under existing or proposed roadways, driveways, and parking areas, shall be sand or gravel, placed in 12" layers (maximum) and consolidated to 95% of maximum density as measured by modified proctor unless otherwise noted.
  - Trees and shrubs are to be protected during construction and bored where necessary.
  - Existing fences shall be removed and restored to their original condition or better where in conflict with construction.
  - Driveways, culverts, ditches, drain tile, tile fields, drainage structures, etc., that are disturbed by the contractor's operations shall be immediately restored.
  - All established lawn areas disturbed by the contractor's operations shall be resodded with matching sod. All other areas shall be seeded and mulched. Seeding and mulching shall be done in accordance with the General Specifications.
  - All ditch slopes shall have established vegetation and be protected from erosion.
  - All utility poles in close proximity to construction shall be supported in a manner satisfactory to the utility owner.
  - Onsite parking and sanitary facilities shall be provided for construction workers. The facilities shall be constructed and operated (with minimal impact to the surrounding area) to the satisfaction of the Township.

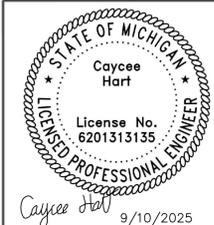
- STANDARD CONSTRUCTION NOTES**
- All sewers to be placed in class "B" bedding or better.
  - Wyes, risers, and house leads are to be placed at locations shown on the plans or as directed by the township engineer. All wyes are incidental.
  - Each wye or house lead shall have a plug of the same type of joint as the house lead.
  - House leads shall have a minimum of 9 ft. Deep at the property line. Individual site topography may require a deviation of this minimum.
  - Down spouts or other conduits carrying storm or ground water shall not be connected to the sanitary sewer.
  - Whenever existing manholes or sewer pipe are to be tapped, holes are to be drilled at 4-inch center to center spacing around the periphery of the proposed opening to create a plane of weakness joint (or core saw the diameter )-a 12 inch thick collar is to encase the new pipe and opening.
  - All sanitary sewer manholes shall be provided with watertight covers.
  - All manhole covers shall bear the legend "MERIDIAN SANITARY SEWER" with tree logo.
  - All public sanitary sewer main lines shall be SDR-26, or ABS truss pipe. Clay pipe may be installed in locations approved by the township engineer.
  - The PVC (SDR-26) pipe material shall conform to ASTM D 2241, with bell and spigot joints in accordance with ASTM F 477.
  - Pipe installation shall be in accordance with ASTM D 2321. All pipe shall be marked to provide ASTM designation, SDR number, manufacturer's name and pipe diameter.
  - The contractor shall test the flexible pipe main for deflection by pulling a mandrel through the sewer after all backfill has been placed and compacted over the pipe. The outside diameter of the test mandrel shall be equal to the inside diameter. The outside diameter of the test mandrel shall be equal to the inside diameter of the pipe installation. A second test shall be performed after ten months of pipe installation or just before line's intended use.
  - Inspection and testing of the sanitary system shall also include video inspection by CCTV method of sanitary main, air testing of sanitary main, and vacuum testing of sanitary manholes. All inspections and testing shall be performed in the presence of township inspectors

Sheet List Table

| Sheet Number | Sheet Title                                |
|--------------|--------------------------------------------|
| 1            | COVER SHEET                                |
| 2            | SITE PLAN                                  |
| 3            | STANDARD DETAILS FOR SANITARY SEWER SYSTEM |

**Call 811 before you dig.**

WOLVERINE PIPE LINE COMPANY 219-844-9510



Meridian Charter Township  
Ingham County, Michigan

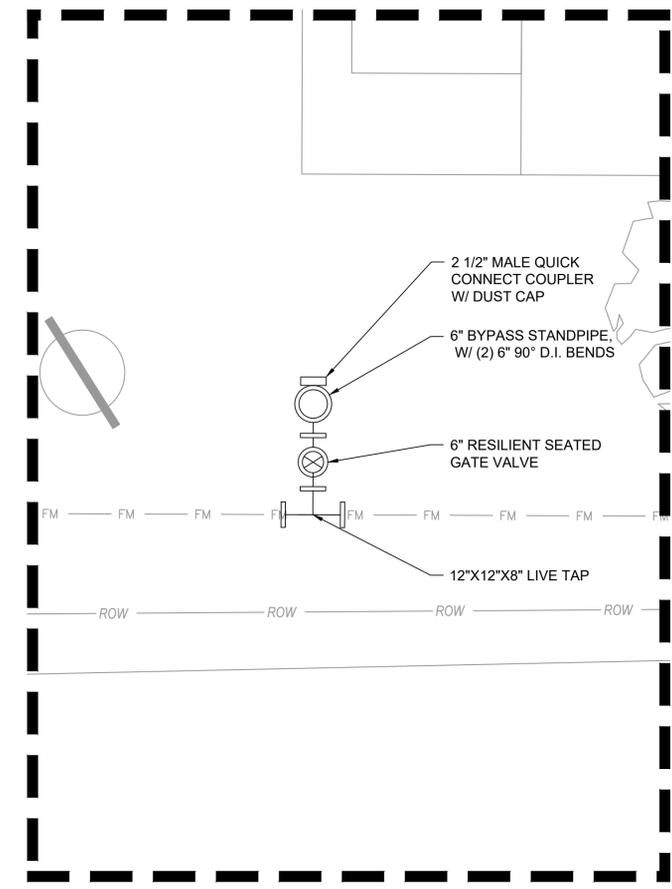
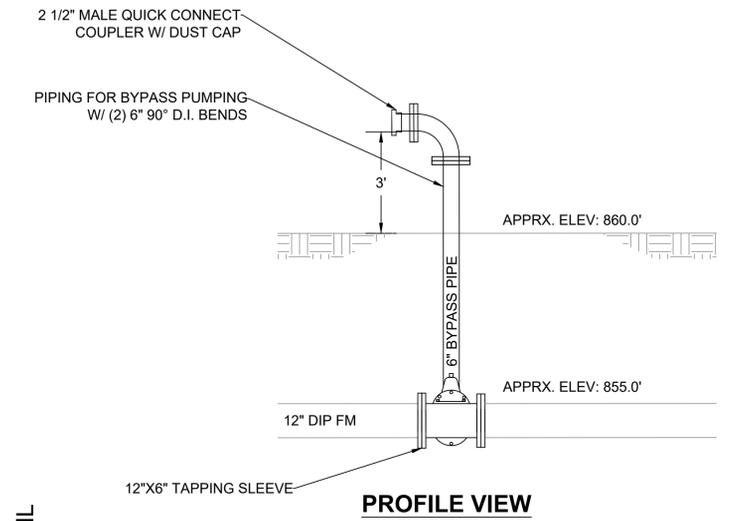
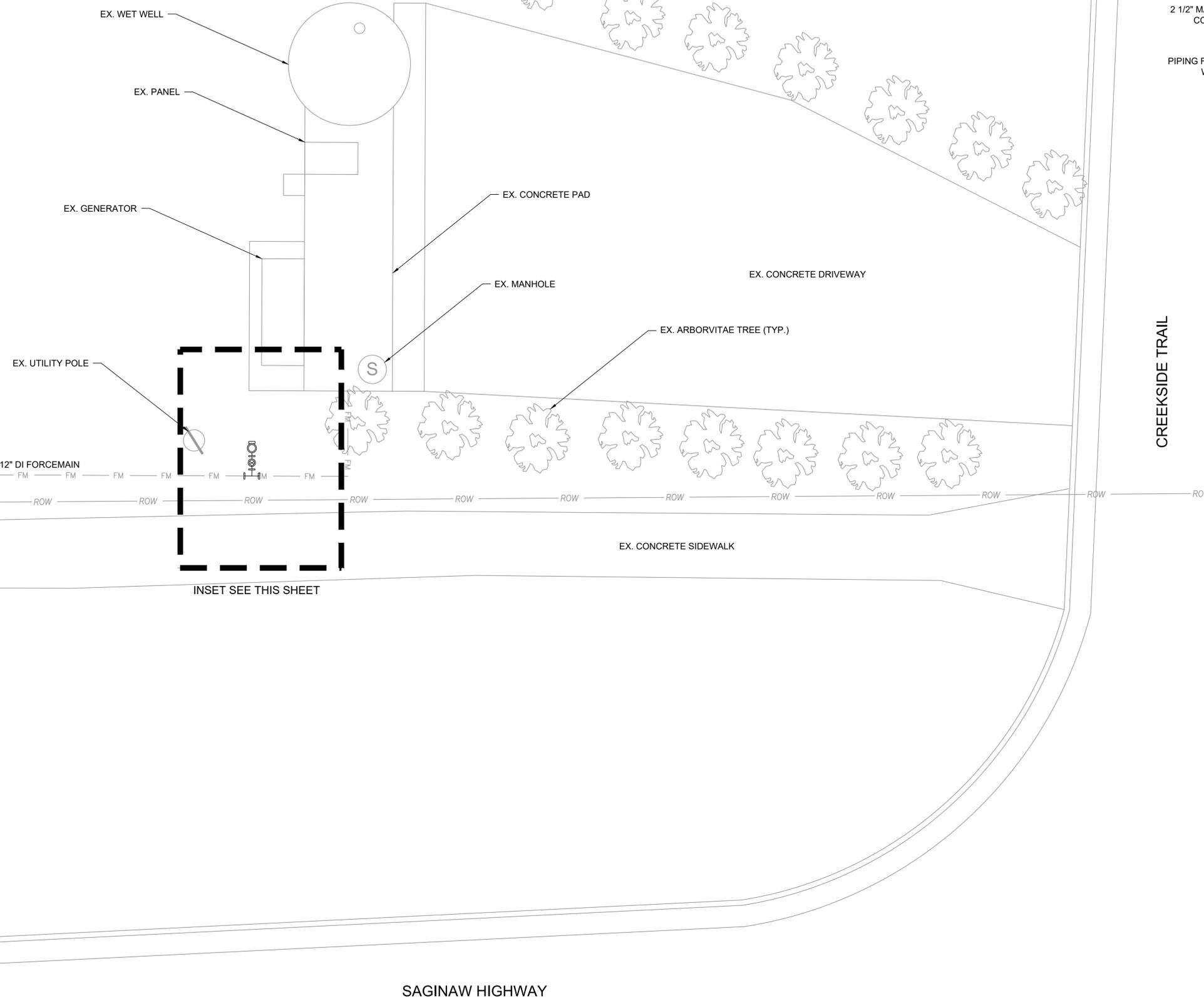
**SANITARY SEWER**

WHITEHILLS LIFT STATION BYPASS  
SW 1/4 SECTION 4, T4N, R1W, MERIDIAN TOWNSHIP,  
INGHAM COUNTY, MICHIGAN

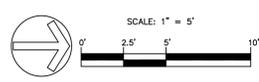
DRAWN BY: GH      CHECKED BY: VI

| REVISIONS: |     |           |
|------------|-----|-----------|
| DATE       | BY: | COMMENTS: |
| 09.10.25   | CH  | BID PLANS |
|            |     |           |
|            |     |           |
|            |     |           |
|            |     |           |

SHEET:

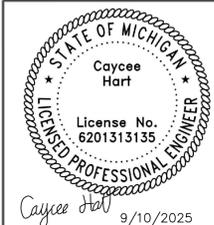


INSET  
SCALE: 1" = 2'



**Call 811 before you dig.**

WOLVERINE PIPE LINE COMPANY 219-844-9510



Meridian Charter Township  
Ingham County, Michigan  
**SANITARY SEWER**

---

WHITEHILLS LIFT STATION BYPASS  
SW 1/4 SECTION 4, T4N, R1W, MERIDIAN TOWNSHIP,  
INGHAM COUNTY, MICHIGAN

| REVISIONS: |     |           |
|------------|-----|-----------|
| DATE       | BY: | COMMENTS: |
| 09.10.25   | CH  | BID PLANS |
|            |     |           |
|            |     |           |
|            |     |           |
| SHEET:     |     |           |

C:\Engineering & Public Works\Sewer\Projects\Whitehills Bypass\PLANS\CAD\Plans\Site Plan.dwg

