



ENGINEERING PLANS FOR:

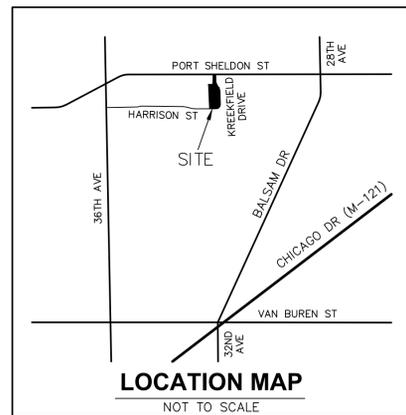
# KREEKFIELD DRIVE SANITARY EXTENSION

## GEORGETOWN TOWNSHIP, OTTAWA COUNTY, MICHIGAN

**PROPERTY DESCRIPTION:**

PPN#70-14-21-300-133  
3190 Port Sheldon St  
Hudsonville, MI 49426

That part of the Southeast 1/4 of Section 20 and the Southwest 1/4 of Section 21, T6N, R13W, Georgetown Township, Ottawa County, Michigan, described as: Commencing at the Southeast corner of Section 20; thence N89°45'30"W 110.00 feet along the South line of said Section 20 to the West line of the East 110.00 feet of the Southeast 1/4 of said Section 20; thence N02°50'51"W 300.00 feet along said West line to the Point of Beginning; thence continuing N02°50'51"W 269.95 feet; thence S89°45'30"E 110.00 feet to the East line of said Section 20; thence N02°50'51"W 250.00 feet along said East line to the centerline of Port Sheldon Street (86.0 feet wide); thence S89°54'39"E 45.00 feet along said centerline to the West line of Kreekfield Drive (66.0 feet wide); thence S00°05'21"W 32.84 feet; thence Southerly 127.27 feet along a 2483.00 foot radius curve to the left, the chord of which bears S01°22'54"E 127.25 feet; thence Southerly 167.34 feet along a 283.00 foot radius curve to the left, the chord of which bears S19°47'13"E 164.91 feet; thence Southerly 128.31 feet along a 217.00 foot radius curve to the right, the chord of which bears S19°47'13"E 126.45 feet; thence S02°50'51"E 85.66 feet (the previous 5 calls being along the West right of way line of Kreekfield Drive); thence N89°45'30"W 235.07 feet to the Point of Beginning. Contains 67,183 square feet or 1.54 acres. Subject to highway river of way for Port Sheldon Street over the North 43.0 feet thereof.



### SHEET INDEX

| SHEET | DESCRIPTION                                      |
|-------|--|
| 1     | TITLE  |
| 2     | GRADING PLAN                                     |
| 3     | SANITARY SEWER AND WATER MAIN IN PUBLIC EASEMENT |

**BENCHMARKS**

**Feenstra**  
& Associates, Inc.  
CIVIL ENGINEERS & SURVEYORS

3145 Prairie St SW, Suite 103 Phone: 616.457.7050  
Grandville, MI 49418 www.feenstrainc.com



# HARRISON STREET

# PORT SHELDON DRIVE

ALL SANITARY SEWER CONSTRUCTION IS TO FOLLOW THE GEORGETOWN TOWNSHIP STANDARD REQUIREMENTS FOR CONSTRUCTION

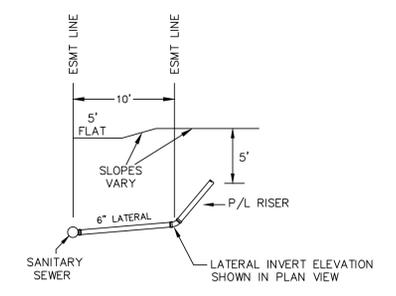
### SANITARY SEWER PIPE CONSTRUCTION

1. SANITARY SEWER MAIN PIPE SHALL CONFORM TO GEORGETOWN TOWNSHIP SPECIFICATIONS. (SDR-26)
2. SANITARY SEWER CASTINGS MUST BE BOLT-DOWN EJ 1045 WT (WATER TIGHT) WITH TYPE A SOLID COVER IMPRINTED WITH THE GEORGETOWN LOGO.
3. TEMPORARY PLUG TO BE PLACED IN EX. SEWER UNTIL NEW SEWER IS ACCEPTED BY GEORGETOWN TOWNSHIP. PLUG IS TO BE ANCHORED.
4. SANITARY SEWER MANHOLES MUST BE PRECAST AND WATER TIGHT. BITUMINOUS WATERPROOFING MUST BE APPLIED TO THE OUTER SURFACE OF THE MANHOLE AT A RATE OF 1 GALLON PER 100 SQUARE FEET.
5. ALL SANITARY SEWER LATERALS WILL BE SDR-26 WITH SOLVENT WELD JOINTS. MINIMUM GRADE ON THE LATERAL MUST BE 1 PERCENT. THE CONTRACTOR MUST PROVIDE AND INSTALL A 2"x2" HARDWOOD OR 2"x4" TREATED MARKER FOR EACH SERVICE THAT IS 3 FEET ABOVE FINISH SURFACE ELEVATIONS.
6. 5% DEFLECTION TESTING SHALL OCCUR AT MINIMUM 30 DAYS AFTER INSTALLATION. AFTER THE GROUNDWATER TABLE HAS RETURNED TO APPROXIMATE LEVEL PRIOR TO DEWATERING OPERATIONS, AIR TESTING, AND PIPE CLEANING, THE CONTRACTOR MUST TELETYPE THE SANITARY SEWER LINES IN COMPLIANCE WITH P&CP STANDARDS FOR SEWER DEFECT IDENTIFICATION AND ASSESSMENT.
7. GEORGETOWN WILL COLLECT GPS LOCATIONS FOR ALL LATERAL WYES, BENDS, AND CLEANOUTS. THE CONTRACTOR IS REQUIRED TO FURNISH AS-BUILT MEASUREMENTS AND INFORMATION TO THE TOWNSHIP AT THE COMPLETION OF THE PROJECT.

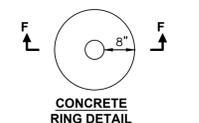
NOTE: PROPOSED SANITARY MANHOLES SHALL CONFORM TO STANDARD SANITARY SEWER CASTING DETAILS CASE II.

### WATER SERVICE CONSTRUCTION NOTES

1. WATER SERVICES MUST BE TYPE K COPPER. 1-INCH CORPORATION STOPS MUST BE FLARED FORD METER BOX COMPANY INC. FB00 OR EQUAL. CURB STOPS MUST BE 1-INCH FLARED FORD METER BOX COMPANY INC. FB600 OR EQUAL.
2. CURB BOXES MUST BE STANDARD CAST IRON, SCREW TYPE SUCH AS TYLER PIPE 6500 SERIES ITEM 95-E OR EQUAL. CURB BOX LOCKS ARE REQUIRED AND MUST BE VADLE CURB BOX LOCK OR EQUAL.
3. SERVICE SADDLES MUST BE FORD METER BOX COMPANY, INC. STYLES 1010S OR EQUAL.
4. GEORGETOWN TOWNSHIP REQUIRES THE DEVELOPER TO PAY LEE'S TRENCHING TO COMPLETE THE WATER TAPS. TAPPING SERVICES MAY BE COORDINATED BY EITHER THE DEVELOPER OR THE TOWNSHIP.

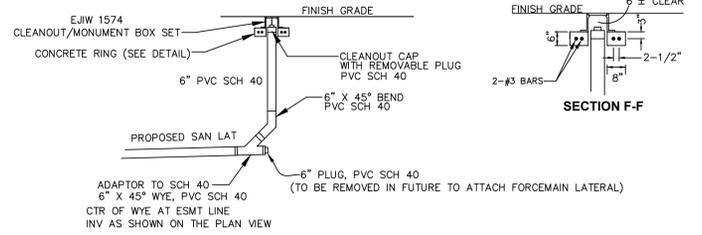


LATERAL P/L RISER DETAIL FOR PARCEL C AND LOTS 1, 2, AND 3

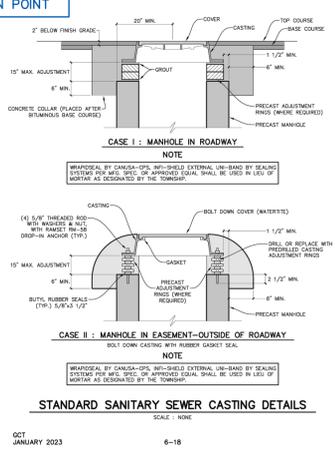


CONCRETE RING DETAIL

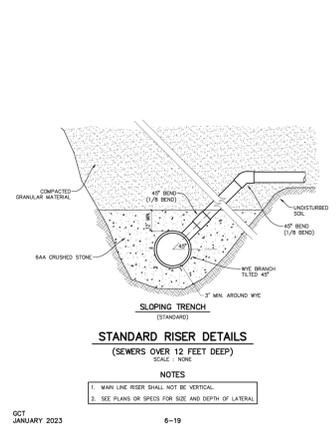
THE CLEANOUT SHALL BE MARKED WITH A 2" X 2" WOOD STAKE WHICH SHALL EXTEND FROM THE BOTTOM OF THE LATERAL END (CLEANOUT WYE) TO A MINIMUM OF 3 FT ABOVE THE GROUND WITH THE END PAINTED ORANGE. (STAKE IS NOT SHOWN IN THIS DETAIL)



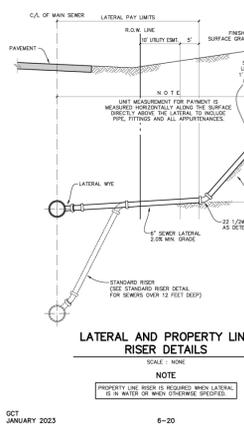
SANITARY CLEANOUT DETAIL FOR PARCELS A AND B  
N.T.S.



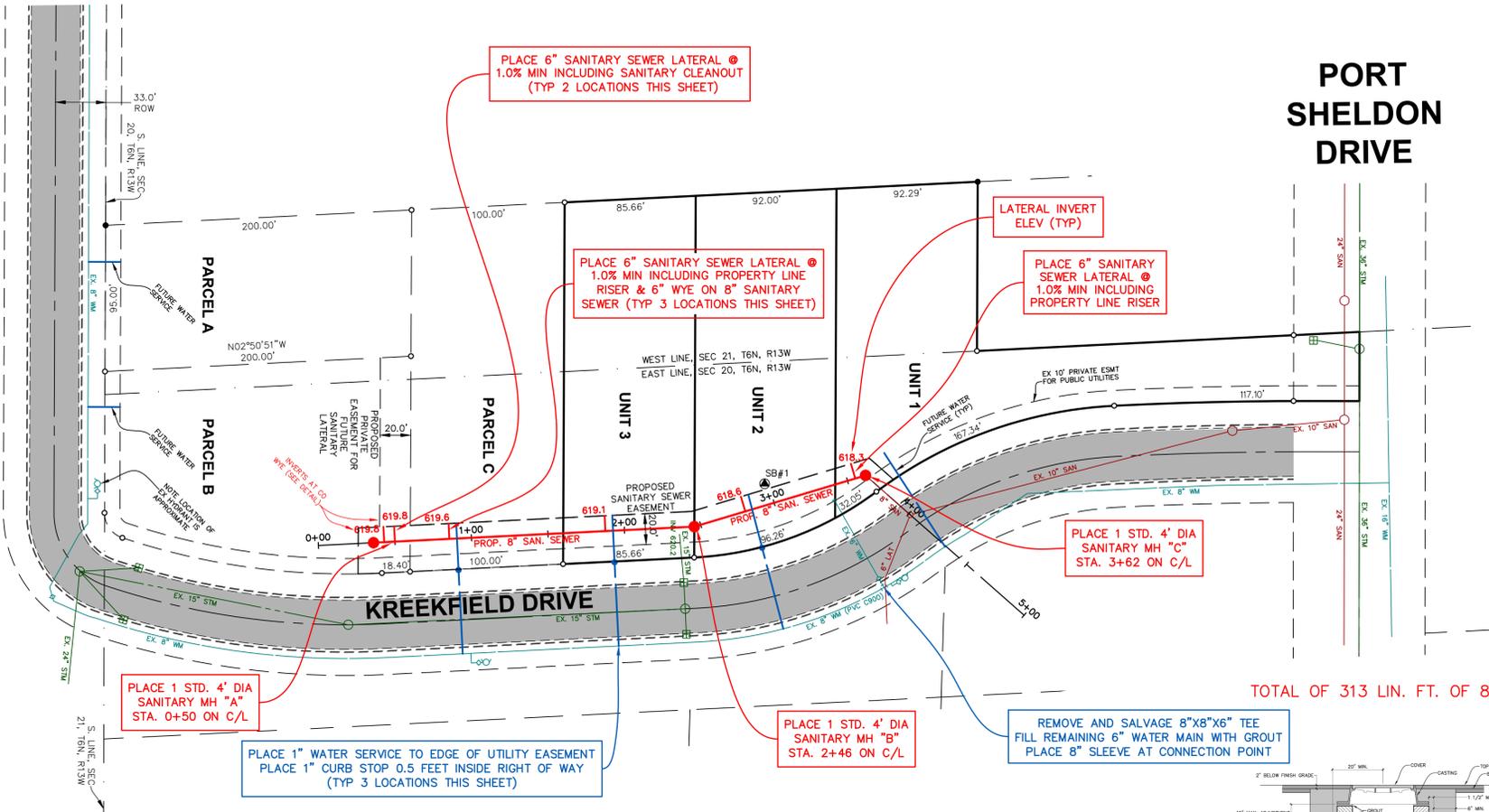
STANDARD SANITARY SEWER CASTING DETAILS  
SCALE: NONE  
6-18  
GCT JANUARY 2023



STANDARD RISER DETAILS  
(SEWERS OVER 12 FEET DEEP)  
SCALE: NONE  
6-19  
GCT JANUARY 2023

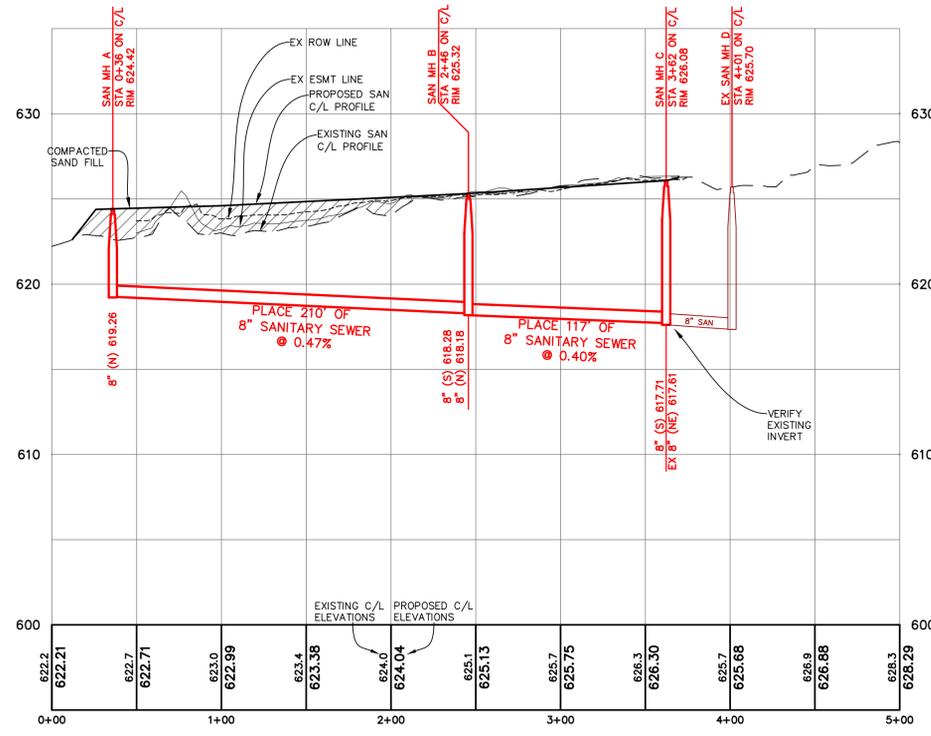


LATERAL AND PROPERTY LINE RISER DETAILS  
SCALE: NONE  
6-20  
GCT JANUARY 2023

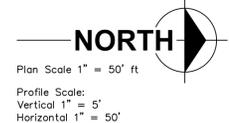


TOTAL OF 313 LIN. FT. OF 8" SANITARY SEWER (SDR-26)

## PUBLIC EASEMENT



EXISTING C/L ELEVATIONS  
PROPOSED C/L ELEVATIONS  
622.21 622.7 622.71 623.0 622.99 623.4 623.38 624.0 624.04 625.13 625.7 625.75 626.3 626.30 625.7 625.68 626.9 626.86 628.3 628.29



**KREEKFIELD DRIVE SANITARY EXTENSION  
SANITARY SEWER AND WATER MAIN IN  
PUBLIC EASEMENT**

FOR: GARY VELDINK  
GARY VELDINK CONSTRUCTION  
2158 EDSON DR  
HUDSONVILLE, MI 49426

PART OF THE SOUTHEAST 1/4 OF SECTION 20 AND THE SOUTHWEST 1/4 OF SECTION 21, T6N, R13W, GEORGETOWN TOWNSHIP, OTTAWA COUNTY, MICHIGAN

**Feenstra & Associates, Inc.**  
CIVIL ENGINEERS & SURVEYORS  
3145 Prairie St SW, Suite 103 Phone: 616.457.7050  
Grandville, MI 49418 www.feenstrainc.com

Sheet 3 OF 3  
Date 11/21/24

**811**  
Know what's below.  
Call before you dig.

| REVISIONS | DATE | COMMENTS |
|-----------|------|----------|
| 2/4/2025  |      |          |