

PROJECT NOTES

- THE "2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND "STANDARD PLANS" BY THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) ARE HEREBY INCORPORATED INTO THESE CONTRACT DOCUMENTS. COPIES OF THESE STANDARDS ARE AVAILABLE FOR INSPECTION AT THE OFFICE OF THE ENGINEER.
- THE PLACING OF TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL BE DONE IN ACCORDANCE WITH THE 2011 MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD), AS AMENDED.
- ALL WORK SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL LAWS, RULES AND REGULATIONS IN FORCE AT THE TIME OF CONSTRUCTION.
- THE CONTRACTOR SHALL CONFORM TO SOIL EROSION AND SEDIMENTATION CONTROL ACT, PART 91 OF ACT 451 OF 1994.
- IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, ALL CONTRACTORS SHALL CALL MISS DIG @ 811 OR 800-482-7171 FOR PROTECTION OF UNDERGROUND UTILITIES. A MINIMUM OF THREE FULL WORKING DAYS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO BEGINNING EACH EXCAVATION IN ANY AREA. MEMBERS WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.
- THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND SHALL CONDUCT OPERATIONS IN A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED IMPROVEMENTS AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND/OR PLANS PREPARED BY OTHERS. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
- COMPACTION OF ANY FILL BY FLOODING IS NOT ACCEPTABLE. THIS METHOD WILL GENERALLY NOT ACHIEVE THE DESIRED COMPACTION, AND THE LARGE QUANTITIES OF WATER WILL TEND TO SOFTEN THE FOUNDATION SOILS.
- ALL FILL FOR THIS PROJECT MUST BE OBTAINED AND FURNISHED BY THE CONTRACTOR. ALL REQUIRED FILL SHALL BE SELECTED EXCAVATED MATERIAL FROM THE SITE APPROVED BY THE ENGINEER, OR MDOT CLASS II GRANULAR MATERIAL FROM BORROW. EXCESS FILL SHALL BE REMOVED FROM SITE BY THE CONTRACTOR. NOTE: NO BORROW OR SOIL REMOVAL ARRANGEMENTS HAVE BEEN PREARRANGED FOR THIS PROJECT, AND SHALL BE THE TOTAL RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL FILL ALL OPEN EXCAVATIONS AT THE END OF EACH DAY. IF AN EXCAVATION NEEDS TO BE LEFT OPEN OVERNIGHT, PEDESTRIAN FENCE SHALL BE INSTALLED AROUND EXCAVATION. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE PRICE FOR THE ASSOCIATED WORK.
- ALL DISTURBED LAWN AREAS AND REQUIRED RESTORATION FOR CURB AND GUTTER ITEMS AND SIDEWALK ITEMS SHALL BE RESTORED AS SLOPE RESTORATION, NON-FREEWAY, TYPE B, AS SHOWN ON THE PLANS. SEDIMENT MIXTURE SHALL BE TYP. LIMITS OF RESTORATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER. UPON COMPLETION OF WORK, THE SITE SHALL BE LEFT IN AS GOOD OR BETTER CONDITION THAN EXISTED BEFORE THE WORK WAS COMMENCED.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EXISTING DRAINAGE PATTERNS, AND SHALL RESOLVE ANY DRAINAGE PROBLEMS ON ADJACENT PROPERTIES WHICH MAY RESULT FROM THE CONTRACTOR'S ACTIVITIES.
- MATERIAL FOR AGGREGATE BASE SHALL BE MDOT 22A GRAVEL, 22A SLAG, 22A LIMESTONE, 22A RECYCLED CONCRETE, OR COLD MILLED, HMA MATERIAL WHICH APPROXIMATES THE GRADATION OF 22A MATERIAL. IF MILLED HMA MATERIAL IS USED, IT MAY BE USED FULL DEPTH OR ON TOP OF 22A AGGREGATE TO OBTAIN THE REQUIRED THICKNESS. 22A GRAVEL SHALL NOT BE PLACED ON TOP OF MILLED HMA MATERIAL. A MIX GREATER THAN 50% MILLED HMA MATERIAL SHALL NOT BE USED AS AN AGGREGATE FROM SEPTEMBER 15 TO MAY 1 WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- DATUM REFERS TO NAVD 88 DATUM.
- ALL SCALES FOR DRAWINGS AND DETAILS ARE BASED ON 24"x36" PRINTED PLANS. DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.
- HMA MATERIALS FOR THIS PROJECT SHALL BE PERFORMANCE GRADE 58-28.
- MAINTAIN 10 FOOT MINIMUM HORIZONTAL SEPARATION BETWEEN THE SANITARY OR STORM SEWER AND WATER MAIN UTILITIES. PROVIDE 18" MINIMUM VERTICAL SEPARATION WHERE THE WATER MAIN CROSSES A SANITARY OR STORM SEWER.
- EXTERIOR CONCRETE SHALL MEET MDOT GRADE 4000 SPECIFICATIONS, BE 3500 PSI, LIMESTONE AGGREGATE AND 4-6% AIR ENTRAINMENT WITH A LIGHT BROOM FINISH
- PROPERTY OWNER'S NAMES, WHERE SHOWN, ARE FOR INFORMATION ONLY, AND THEIR ACCURACY IS NOT GUARANTEED.
- ANY SANITARY SEWER, SANITARY SEWER SERVICE LEADS, WATER MAIN, WATER SERVICES, OR STORM SEWER NOT INCLUDED IN THE PROPOSED IMPROVEMENTS THAT IS DAMAGED BY THE CONTRACTOR DURING THEIR OPERATIONS SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AND AT THE CONTRACTOR'S EXPENSE.
- THE PROPOSED WATER SERVICE FOR PARCEL NO. 80-45-600-046-00 SHALL BE TAPPED OFF THE EXISTING 6 INCH WATER MAIN ON HAMILTON STREET. SEE THE SPECIFICATIONS FOR MORE INFORMATION ON WATER SERVICE INSTALLATION.

LEGEND

| EXISTING | PROPOSED | |
|----------|----------|--------------------------------------|
| C | C | CABLE |
| E | E | ELECTRIC LINE |
| OHE | OHE | ELECTRIC LINE (OVERHEAD) |
| FO | FO | FIBER OPTIC LINE |
| G | G | GAS LINE |
| T | T | TELEPHONE LINE |
| | X | FENCE |
| | X | FORCE MAIN |
| | X | GUARDRAIL |
| | X | SANITARY SEWER |
| | X | STORM SEWER |
| | X | WATER MAIN |
| | X | CENTER LINE |
| | | EXISTING TREE LINE |
| | | EXISTING DITCH LINE |
| | | EASEMENT LINE/GRADING PERMIT |
| | | GRADING LIMITS/LIMITS OF DISTURBANCE |
| | | PROPERTY LINE |
| | | RIGHT-OF-WAY LINE |
| | | SECTION LINE |
| | | TO BE ABANDONED |

| | | | |
|---|--------------------|---|-------------------------------|
| ⊠ | = ANTENNA | ⊠ | = PAVEMENT/SOIL BORING |
| ⊠ | = CATCH BASIN | ⊠ | = PROPOSED HYDRANT |
| ⊠ | = CLEAN RISER BOX | ⊠ | = PROPOSED GATE VALVE & BOX |
| ⊠ | = CLEAN OUT | ⊠ | = PROPOSED GATE VALVE & VAULT |
| ⊠ | = CURB INLET | ⊠ | = PROPOSED REDUCER |
| ⊠ | = ELECTRIC MANHOLE | ⊠ | = PROPOSED SANITARY MANHOLE |
| ⊠ | = FIRE HYDRANT | ⊠ | = PROPOSED STORM MANHOLE |
| ⊠ | = FOUND IRON PIPE | ⊠ | = STORM MANHOLE |
| ⊠ | = GAS VALVE | ⊠ | = TELEPHONE MANHOLE |
| ⊠ | = GUY ANCHOR | ⊠ | = TELEPHONE RISER BOX |
| ⊠ | = LIGHT POLE | ⊠ | = TURNING POINT/TRVERSE |
| ⊠ | = MAILBOX | ⊠ | = UTILITY POLE |
| ⊠ | = MONITORING WELL | ⊠ | = VAULT |
| ⊠ | = POST | ⊠ | = WATER ELEVATION |
| ⊠ | = SATELLITE DISH | ⊠ | = WATER MANHOLE |
| ⊠ | = SANITARY MANHOLE | ⊠ | = WATER METER |
| ⊠ | = SECTION CORNER | ⊠ | = WATER VALVE |
| ⊠ | = SIGN | ⊠ | = WATER SPIGOT |
| ⊠ | | ⊠ | = WELL |

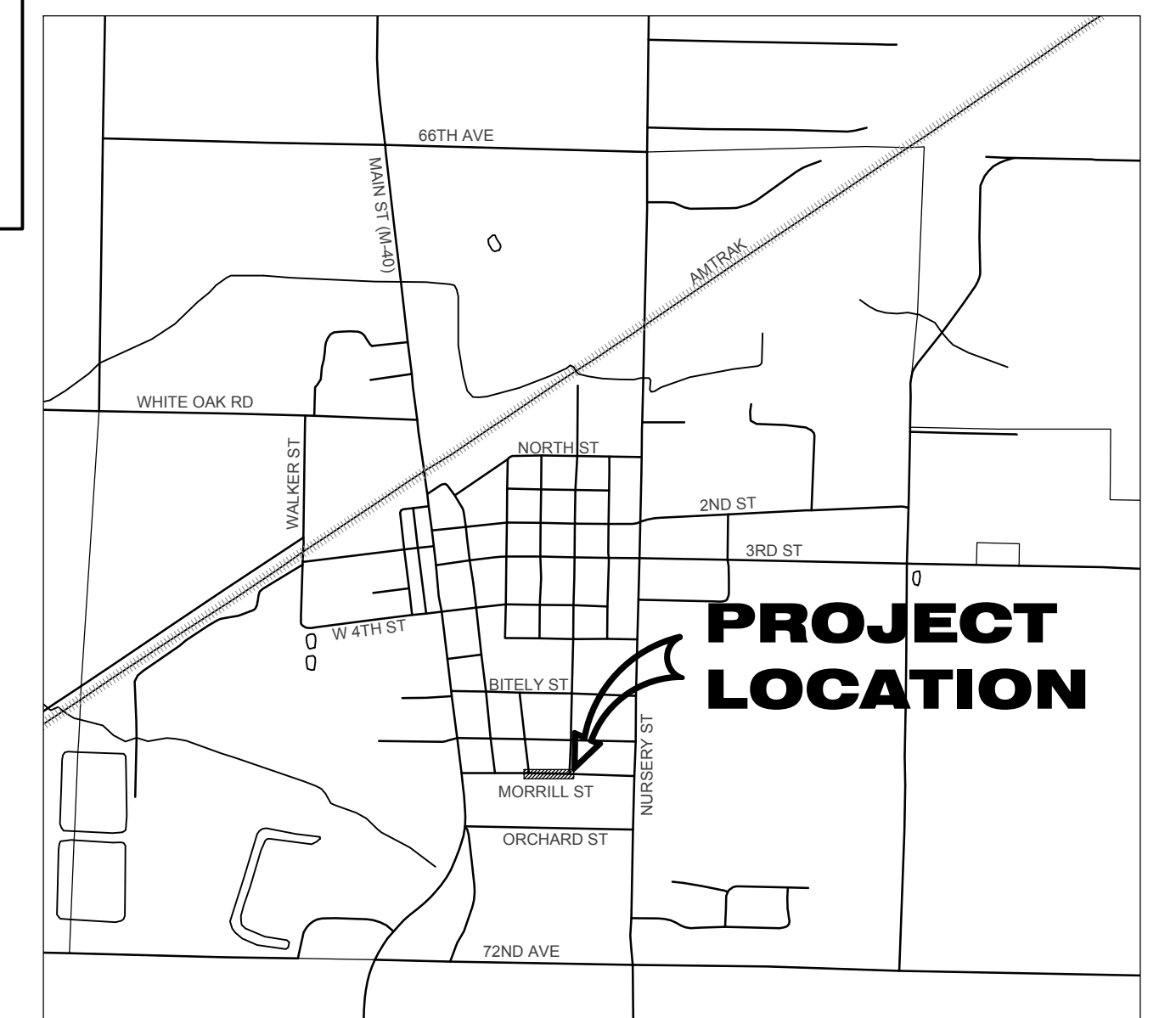
VILLAGE OF LAWTON

SEWER EXTENSION PROJECT

MORRILL STREET

UTILITIES

- | | |
|---------------|---|
| GAS | CONSUMERS ENERGY 2500 E. CORK STREET KALAMAZOO, MI 49001 269-337-2366 KYLE OAK |
| ELECTRIC | AMERICAN ELECTRIC POWER 2425 MEADOWBROOK DRIVE BENTON HARBOR, MI 49022 269-479-8792 KYLE CHEATHAM |
| TELEPHONE | COMCAST 1920 MCKINLEY AVENUE MISHAWAKA, IN 46545 847-789-1039 x 71039 JAY CASTELLO |
| SEWER & WATER | VILLAGE OF LAWTON 125 S. MAIN STREET LAWTON, MI 49065 269-624-6406 TODD HACKENBERG |
| "MISS DIG" | 811 |



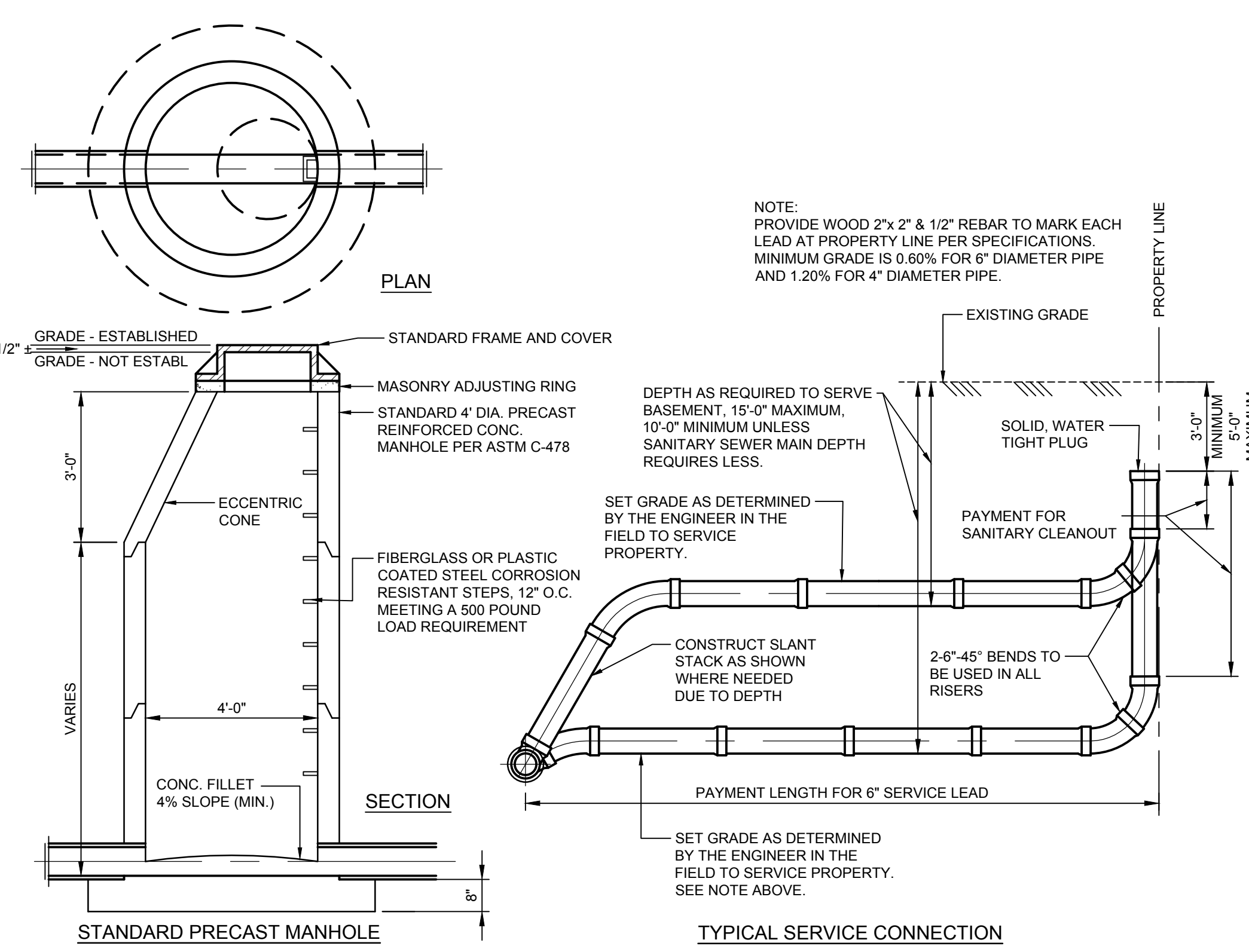
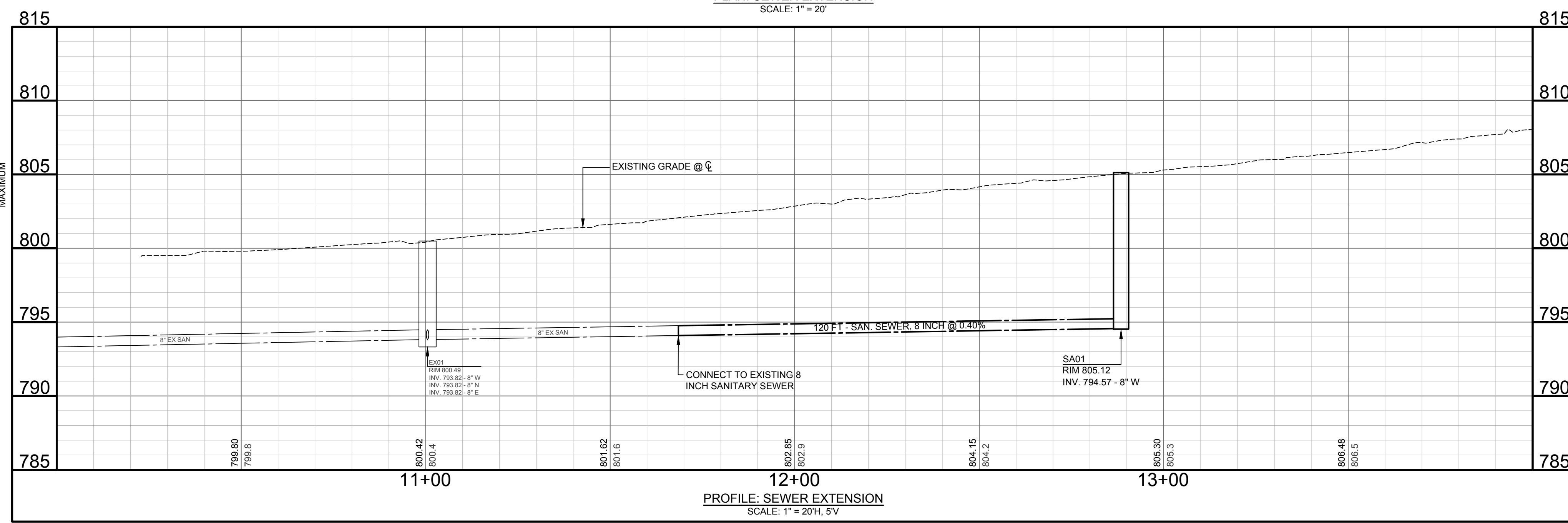
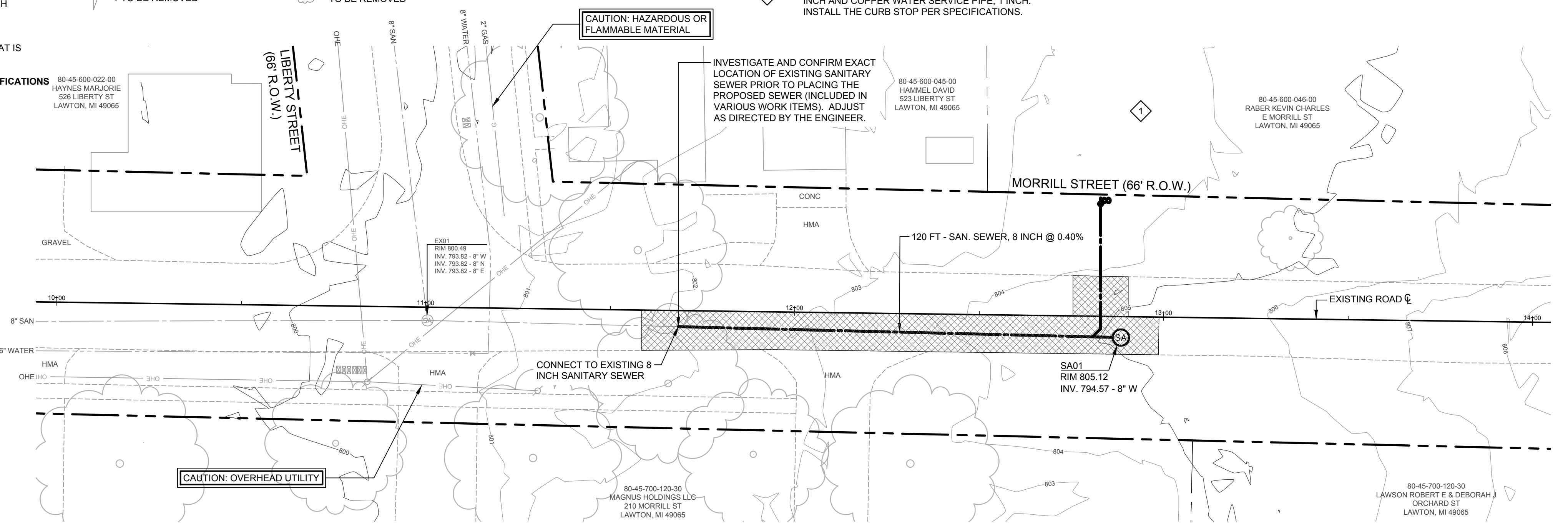
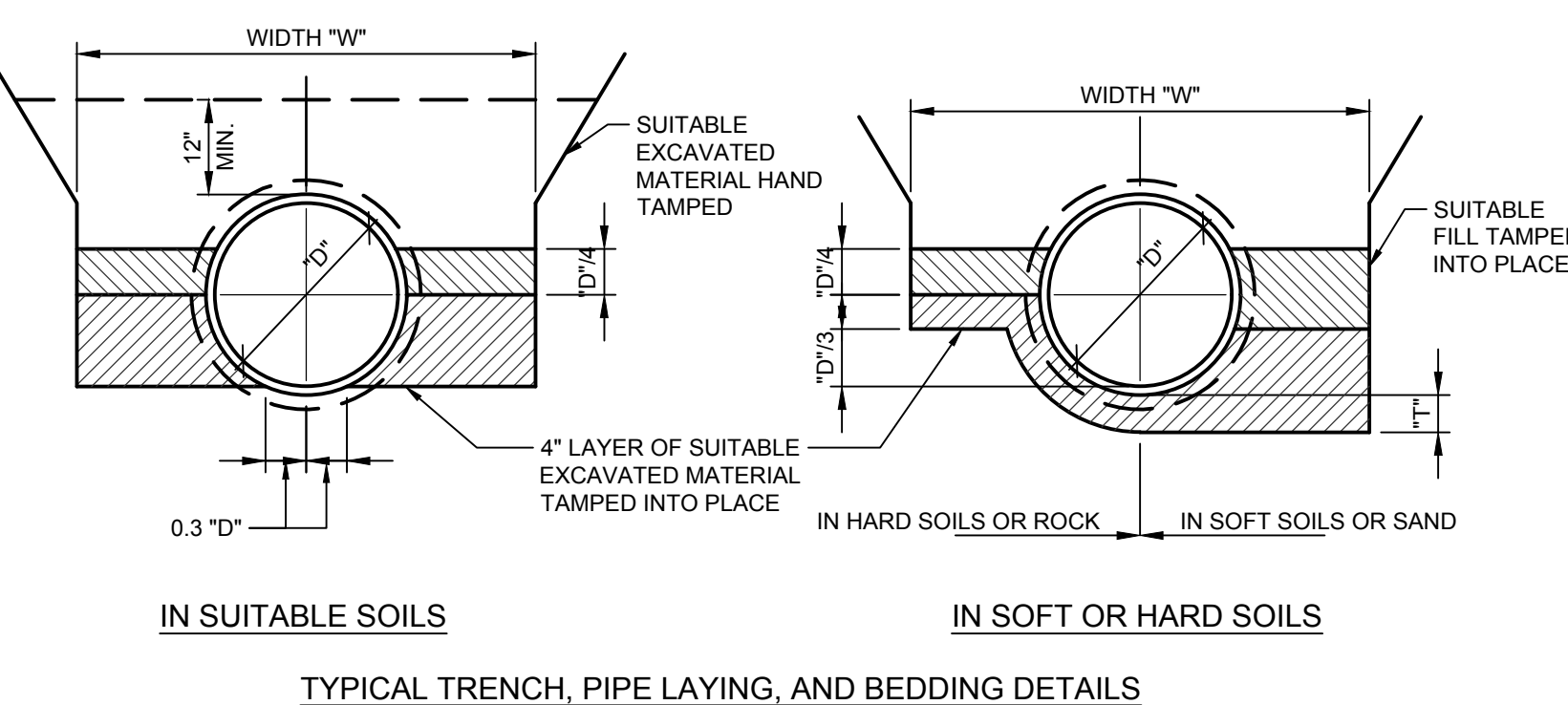
LEGEND

- SAWCUT AND REMOVE PAVEMENT PAID FOR AS HMA SURFACE, REM. PLACE AGGREGATE BASE, 8 INCH, SURFACE WITH 220#/SYD HMA, 4EL (LEVELING); AND 165#/SYD HMA, 4EL (TOP). MATCH EXISTING GRADE AT SAWCUT LINE.
- INSTALL WATER SERVICE FROM THE EXISTING MAIN TO THE R.O.W. LINE PAID FOR AS WATER SERVICE, 1 INCH AND COPPER WATER SERVICE PIPE, 1 INCH. INSTALL THE CURB STOP PER SPECIFICATIONS.

TREE DESIGNATORS



NOTE: PIPE SHALL BE FIRMLY BEDDED ON UN-DISTURBED SOIL AS SHOWN IN LEFT SECTION. IN THE EVENT THE SOIL CAN NOT BE SHAPED, OR THE CONTRACTOR PREFERENCES, THE TRENCH SHALL BE EXCAVATED TO A GREATER DEPTH AND BACKFILLED WITH SELECTED FILL AND COMPACTED AS SHOWN IN RIGHT SECTION. IN ALL CASES BELL HOLES SHALL BE PROVIDED SO THAT BELL SUPPORTS NO WEIGHT.



WIGHTMAN

BENTON HARBOR
269.927.0100

KALAMAZOO
269.327.3532

ALLEGAN
269.673.8465

ROYAL OAK
248.791.1371

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PROJECT NAME:
MORRILL STREET SEWER EXTENSION
MORRILL STREET
VILLAGE OF LAWTON

VILLAGE OF LAWTON
125 S MAIN STREET
LAWTON, MI 49065

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