EXISTING LEGEND

PROPOSED LEGEND

24 847.827 SPIKE NEAR EAST SIDE OF POWER POLE ACROSS FROM HOUSE #645
25 843.990 SPIKE NEAR SOUTH SIDE OF UTILITY POLE ON WEST SIDE OF RIVERVIEW ACROSS FROM HOUSE #615
26 843.990 SPIKE NEAR EAST SIDE OF UTILITY POLE ON SOUTH SIDE OF RIVERVIEW AT CENTERLINE OF RIVERVIEW EXTENDED.
27 837.810 NORTHERLY RIM OF STORM MANHOLE ON NORTHEAST SIDE OF RIVERVIEW OPPOSITE HOUSE #615.
28 817.280 NORTHERLY RIM OF STORM MANHOLE AT CENTERLINE OF RIVERVIEW OPPOSITE HOUSE #580.
29 851.510 NORTHERLY RIM OF STORM MANHOLE ON NORTHERNLY SIDE OF RIVERVIEW EXTENDED.
30 833.730 NORTHERLY RIM OF UTILITY POLE ON CENTERLINE OF RIVERVIEW OPPOSITE HOUSE #519.
31 833.630 NORTHERLY RIM OF UTILITY POLE ON CENTERLINE OF RIVERVIEW EXTENDED.
32 858.910 SPIKE IN EAST SIDE OF 24" TREE BETWEEN HOUSE #519 AND #508 ON EAST SIDE OF RIVERVIEW.
33 827.613 NORTHERLY RIM OF STORM MANHOLE AT CENTERLINE OF RIVERVIEW OPPOSITE HOUSE #559.
34 817.365 NORTHERLY RIM OF STORM MANHOLE AT CENTERLINE OF RIVERVIEW OPPOSITE HOUSE #580.
35 801.362 NORTHERLY RIM OF STORM MANHOLE.
36 802.978 SET RAILROAD SPIKE IN NORTH SIDE OF UTILITY POLE ON SOUTHERLY SIDE OF RIVERVIEW AT 90° BEND IN ROAD.
37 806.437 NORTHERLY RIM OF MANHOLE AT CENTERLINE INTERSECTION OF RIVERVIEW AND HUNTINGTON.
38 837.735 NORTHERLY RIM OF UTILITY POLE ON CENTERLINE OF RIVERVIEW EXTENDED.
39 837.621 NORTHERLY RIM ON STORM MANHOLE OF CENTERLINE OF RIVERVIEW 30' SOUTH OF CENTERLINE DOVER.
40 810.010 NORTHERLY RIM OF STORM MANHOLE ON CENTERLINE OF RIVERVIEW 20' NORTH OF CENTERLINE DRIVE FOR HOUSE #480.
41 847.262 CENTERLINE OF TOP STEP FOR STAIRS AT WEST END OF DOVER LEADING TO HOUSE #3055.

REVIEW DRIVE SANITARY SEWER AND WATER MAIN EXTENSION PROJECT
CITY OF ANN ARBOR
HORIZONTAL DATUM: NAD 83 STATE PLANE COORDINATES
VERTICAL DATUM: NAVD 88
SURVEYED BY: CITY OF ANN ARBOR

HORIZONTAL CONTROL POINTS

CONTROL POINT: CP0
DESCRIPTION: SET PIPE WITH TRAVERSE CAP ON NORTH SIDE OF RIVERVIEW AT CENTERLINE OF RIVERVIEW EXTENDED.
COORDINATES: N=282604.435, E=13302350.600, ELEV=823.70'

CONTROL POINT: CP1
DESCRIPTION: FOUND SPIKE IN EAST SIDE OF UTILITY POLE ON SOUTH SIDE OF RIVERVIEW.
COORDINATES: N=282827.150, E=13302147.460, ELEV=843.59'

CONTROL POINT: CP50
DESCRIPTION: SET PIPE WITH TRAVERSE CAP ON SOUTH SIDE OF GEDDES. PIPE IS 30'± EAST OF CENTERLINE DRIVE FOR HOUSE NUMBERS 3090/3100, AND 3.6'± SOUTH OF SOUTH BACK OF CURB.
COORDINATES: N=282398.850, E=13302337.400, ELEV=837.26'

CONTROL POINT: CP25
DESCRIPTION: FOUND SPIKE IN ASPHALT ON NORTH SIDE OF RIVERVIEW OPPOSITE HOUSE #645.
COORDINATES: N=282558.810, E=13302272.970, ELEV=844.08'

CONTROL POINT: CP26
DESCRIPTION: FOUND PIPE WITH TRAVERSE CAP ON EAST SIDE OF RIVERVIEW IN FRONT OF HOUSE #615. 2.5' OFF BACK OF CURB.
COORDINATES: N=282719.540, E=13302280.780, ELEV=838.64'

CONTROL POINT: CP51
DESCRIPTION: SET PIPE WITH TRAVERSE CAP ON NORTH SIDE OF DOVER. PIPE IS 50'± WEST OF CENTERLINE RIVERVIEW AND 9.0'± NORTH OF CENTERLINE DOVER.
COORDINATES: N=282802.220, E=13302250.120, ELEV=838.97'

CONTROL POINT: CP52
DESCRIPTION: SET PIPE WITH TRAVERSE CAP AT NORTH EDGE OF GRAVEL ON DOVER. PIPE IS 26'± WEST OF WEST EDGE OF BLOCK WALL ON WEST EDGE OF DRIVE FOR HOUSE #3081.
COORDINATES: N=282827.150, E=13302147.460, ELEV=843.59'

CONTROL POINT: CP27
DESCRIPTION: FOUND PIPE WITH TRAVERSE CAP ON WEST SIDE OF RIVERVIEW. 3' OFF BACK OF CURB AND 28' NORTH OF CENTERLINE DRIVE FOR HOUSE #580.
COORDINATES: N=282893.590, E=13302350.600, ELEV=823.70'

CONTROL POINT: CP28
DESCRIPTION: FOUND PIPE WITH TRAVERSE CAP ON EASTERLY SIDE OF RIVERVIEW. 2.2' OFF BACK OF CURB AND OPPOSITE CENTERLINE DRIVE FOR HOUSE #480.
COORDINATES: N=283124.480, E=13302365.980, ELEV=811.92'

CONTROL POINT: CP29
DESCRIPTION: FOUND PIPE WITH TRAVERSE CAP ON NORTH SIDE (AFTER CURB) OF RIVERVIEW. 3.0' OFF BACK OF CURB AND 50'± WEST OF MAILBOX FOR HOUSE #485.
COORDINATES: N=283231.200, E=13302225.190, ELEV=804.58'

CONTROL POINT: CP53
DESCRIPTION: SET MAGNAIL IN ASPHALT AT BEND IN ROAD. NAIL IS NEAR BM30.
COORDINATES: N=283125.190, E=13302083.540, ELEV=803.38'

PROJECT NAME: BM CODE DESCRIPTION
BM # ELEV
24 847.827 SPIKE NEAR EAST SIDE OF POWER POLE ACROSS FROM HOUSE #645
25 843.990 SPIKE NEAR SOUTH SIDE OF UTILITY POLE ON WEST SIDE OF RIVERVIEW ACROSS FROM HOUSE #615
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41 847.262 CENTERLINE OF TOP STEP FOR STAIRS AT WEST END OF DOVER LEADING TO HOUSE #3055.
Notes:

1. All utilities and authorities to buildings, individual projects, and individual systems shall be maintained at all times. All authorities shall be kept clean and in good order and only those authorities necessary for the operation of the project shall be maintained. All other authorities shall be removed or replaced as necessary.

2. Authority shall be maintained at all times. All authorities shall be kept clean and in good order and only those authorities necessary for the operation of the project shall be maintained. All other authorities shall be removed or replaced as necessary.

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SOIL EROSION NOTES:
1. All areas to be permanently protected with grass, mulch, revegetation, structures, and special erosion control blankets or similar blankets.
2. Streets existing in the project area shall be protected during construction and shall be immediately cleaned following any such occurrence.

SOIL EROSION SEQUENCE OF CONSTRUCTION:
1. Please meet all on existing drainage features that will remain in place after construction begins.
2. Install silt fence before any site excavation.
3. Install erosion control blankets to the construction site area.
4. Keep area free of construction vehicles during the period of construction.
5. Install erosion control blankets to the construction site area.
6. Keep site free of debris systems.
7. Remove temporary site features (e.g., temporary protection) and inspect the work to the satisfaction of the City's official.

NOTE: This sequence is for information only. It is not intended to reflect the sequence of construction. The City reserves the right to make changes on the project at any time. The Contractor is responsible for submitting any changes to the City for review, comment and acceptance.
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RIVERVIEW DRIVE SANITARY SEWER AND WATER MAIN EXTENSION PROJECT

SOIL EROSION DETAILS

· INSTALLATION DETAIL
SIDE VIEW INSTALLED

SILTSACK DETAIL

REGULAR FLOW SILTSACK
HI-FLOW SILTSACK
OIL-ABSORBANT SILTSACK

MULCH BLANKET DETAIL
SILT FENCE SD-EC-3
RIVERVIEW DRIVE SANITARY SEWER AND WATER MAIN EXTENSION PROJECT
PROPOSED SANITARY PLAN & PROFILE STA 0+00 TO STA 3+00

SANITARY SEWER NOTES:
1. Sanitary sewer shall consist of steel or iron pipe, which shall be Grade 30 material as specified by the American Iron and Steel Institute (AISI) and American Society of Testing Materials (ASTM). The pipe shall be coated with a durable corrosion-resistant coating.
2. Manholes shall be cast-in-place concrete structures, constructed in accordance with the American Concrete Institute (ACI) and American Society of Testing Materials (ASTM). The manholes shall be designed to withstand vehicular loads.
3. The sanitary sewer system shall be designed to accommodate future growth and connections as required by the City of Ann Arbor.
4. The sanitary sewer system shall be designed to minimize infiltration and inflow, and to comply with the National Pollutant Discharge Elimination System (NPDES) permit issued by the Michigan Department of Environmental Quality (MDEQ).
5. The sanitary sewer system shall be designed to comply with the Michigan Public Act 106, which regulates the installation and maintenance of underground utilities.
6. The sanitary sewer system shall be designed to comply with the Michigan Public Act 181, which regulates the installation and maintenance of public water systems.
7. The sanitary sewer system shall be designed to comply with the Michigan Public Act 194, which regulates the installation and maintenance of sanitary sewers.
8. The sanitary sewer system shall be designed to comply with the Michigan Public Act 195, which regulates the installation and maintenance of public water systems.
9. The sanitary sewer system shall be designed to comply with the Michigan Public Act 196, which regulates the installation and maintenance of sanitary sewers.
10. The sanitary sewer system shall be designed to comply with the Michigan Public Act 197, which regulates the installation and maintenance of public water systems.

SANITARY SEWER STRUCTURE TABLE

<table>
<thead>
<tr>
<th>STA</th>
<th>ADDRESS</th>
<th>RISER HEIGHT (FT)</th>
<th>LENGTH TO ROW (FT)</th>
<th>LEAD IN (IN)</th>
<th>PVC SDR 21</th>
<th>DIRECTION</th>
<th>SIZE</th>
<th>MATERIAL</th>
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</table>

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SANITARY SEWER STRUCTURE TABLE

<table>
<thead>
<tr>
<th>STRUCTURE</th>
<th>STATION</th>
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<th>INVERT</th>
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</tbody>
</table>

Note: All lead inlet elevations are calculated based on 4'-0" invert for invert at centerline as shown on sheet 7.
PLAN:

1" = 20'

Know what's below.
Call before you dig.
RIVERVIEW DRIVE SANITARY SEWER AND WATER MAIN EXTENSION PROJECT

Profile: 1" = 4'

MATERIALS:
- Construction of the proposed water main shall be performed in accordance with the American Society of Civil Engineers (ASCE) standards.
- All work shall be performed in accordance with the City of Ann Arbor's Engineering Department standards and specifications.

CONSTRUCTION:
- The contractor shall be responsible for all connections, records, and other related work.
- The contractor shall be responsible for the installation of the water main and the associated appurtenances.

NOTES:
- Note a provisional quantity of 20 linear feet.
- The proposed water main shall be installed in accordance with the City of Ann Arbor's Engineering Department standards and specifications.
- The proposed water main shall be installed in accordance with the City of Ann Arbor's Engineering Department standards and specifications.

LEGEND:
- PROPOSED SITE AND ELEVATION:
- REAL ESTATE:
- WATER MAIN:
- SEWER MAIN:
- UTILITY DUCTS:
- OTHER APPURTENANCES:

PLAN:
- 1" = 20'

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
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RIVERVIEW DRIVE SANITARY SEWER AND WATER MAIN EXTENSION PROJECT

NOTE: A PROVISIONAL QUANTITY OF 20 LINEAR FEET

1. THE INCLUSION OF SHEETS FOR TABLES ON PLACEMENT, ARTICLES, APPURTENANCES, AND OTHER ITEMS SHOWN ON SHEETS SHED OF THE CONTRACTOR IS NOT TO PRECLUDE THE CONTRACTOR FROM INSTALLING THE SAME AS SHOWN ON SHEETS.
Know what's below.
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2017-031

RIVERVIEW DRIVE SANITARY SEWER AND WATER MAIN EXTENSION PROJECT

PROPOSED TYPICAL CROSS SECTION

RIVERVIEW DRIVE

NHA APPLICATION ESTIMATE

<table>
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<tr>
<th>Task</th>
<th>1</th>
<th>2</th>
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<td>4</td>
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</table>

ASPHALT CURB

Note to Scale

ASPHALT CURB

NO SCALE

Note: All dimensions are approximate and shall be verified by the City of Ann Arbor. This drawing is intended for informational purposes only and is not to be relied upon for site construction.
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2017-031

RIVERVIEW DRIVE SANITARY SEWER AND WATER MAIN EXTENSION PROJECT

MAINTENANCE OF TRAFFIC PLAN

RIVERVIEW DRIVE ROLLING CLOSURE

STAGE 1

STAGE 2

NOTE: All dimensions shown are nominal. Actual performance may vary depending on the material and conditions at the job site. The contractor is responsible for confirming the dimensions and clearances at the job site before proceeding with construction. The city reserves the right to modify the plans and specifications as necessary to ensure the safe and efficient completion of the work according to the city's specifications and guidelines.
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<td>Protective Fence, Orange, Plastic, 4 Foot ht</td>
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<td>Barricade, Type III, High Intensity, Lighted, P orb</td>
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<tr>
<td>6570012</td>
<td>Pipe (1inch duct &amp; Refill (B Unilinir))</td>
<td>23</td>
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<td>7210500</td>
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Know what's below. Call before you dig.