CITY OF ANN ARBOR
ENGINEERING

CREST, BUENA VISTA, WASHINGTON WATER MAIN

BID No. 4525, FILE No. 2016029

VICTUMY MAP
CONSTRUCTION NOTES:

1. MOISTURED AND DRY MUD BARRIERS SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.

2. ANY ALTERATION MADE TO THE PAVING SURFACE SUCH AS ROAD WIDENING, LANE CHANGING AND OTHER MODIFICATIONS WHICH IS PERMITTED BY THE CITY OF ANN ARBOR SHALL BE PERMITTED BY THE CITY OF ANN ARBOR.

3. PLUMBING AND GAS LINES SHALL BE MAINTAINED IN GOOD CONDITION AT ALL TIMES BY THE CONTRACTOR.

4. ENSURE THAT ALL DRAINAGE TRENCHES ARE IN GOOD CONDITION AT ALL TIMES.

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46. ENSURE THAT ALL DRAINAGE TRENCHES ARE IN GOOD CONDITION AT ALL TIMES.

<table>
<thead>
<tr>
<th>BM #</th>
<th>ELEV</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>052.599</td>
<td>RR SPRING IN N SIDE OF U.P. @ E.S. CORNER OF  LIBERTY ST &amp; SEVENTH ST</td>
</tr>
<tr>
<td>2</td>
<td>057.993</td>
<td>SET RR SPR IN N SIDE OF U.P. ON S SIDE OF LIBERTY ST. 30’ W OF S/Button TO NORTH</td>
</tr>
<tr>
<td>3</td>
<td>060.731</td>
<td>SET RR SPR IN NLY SIDE OF U.P. ON S SIDE OF LIBERTY ST. IN FRONT OF HSE NO. 1817</td>
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<tr>
<td>4</td>
<td>063.990</td>
<td>SET RR SPR IN E SIDE OF U.P. ON W SIDE OF BUENA VISTA AVE BETWEEN HSE NO’S 210 &amp; 212</td>
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<tr>
<td>5</td>
<td>065.198</td>
<td>RR SPRING AS RIVER ROUTEThrough SHIP MAST ARM POLE @ S.W. CORNER OF LIBERTY ST &amp; CREST AVE</td>
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<td>6</td>
<td>055.699</td>
<td>SET RR SPR IN N SIDE OF U.P. @ S.W. CORNER OF CRUSHE AVE &amp; WASHINGTON AVE</td>
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<td>7</td>
<td>055.214</td>
<td>SET RR SPR IN E SIDE OF U.P. ON S SIDE OF CRUSHE AVE &amp; WASHINGTON AVE</td>
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<td>8</td>
<td>052.690</td>
<td>SET RR SPR IN E SIDE OF U.P. ON N SIDE OF CRUSHE AVE @ HSE NO. 240</td>
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<td>9</td>
<td>051.196</td>
<td>RR SPRING AS RIVER ROUTE Through SHIP MAST ARM POLE @ W.E. CORNER OF CRUSHE AVE &amp; WASHINGTON AVE</td>
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<td>10</td>
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<td>11</td>
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<td>SET RR SPR IN N SIDE OF U.P. @ E.S. CORNER OF CRUSHE AVE &amp; WASHINGTON AVE</td>
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<td>12</td>
<td>068.162</td>
<td>SET RR SPR IN S SIDE OF U.P. ON N SIDE OF WASHINGTON ST @ BUENA VISTA AVE</td>
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<td>13</td>
<td>061.241</td>
<td>SET RR SPR IN E SIDE OF U.P. ON S SIDE OF CRUSHE AVE BETWEEN HSE NO’S 210 &amp; 212</td>
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<tr>
<td>14</td>
<td>054.193</td>
<td>SET RR SPR IN E SIDE OF P.P. ON N SIDE OF CRUSHE AVE, BETWEEN HSE NO’S 256 &amp; 244</td>
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<tr>
<td>15</td>
<td>042.353</td>
<td>SET RR SPR IN E SIDE OF U.P. ON N SIDE OF WASHINGTON ST @ EMERSON STREET</td>
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<tr>
<td>16</td>
<td>042.353</td>
<td>SET RR SPR IN E SIDE OF U.P. ON N SIDE OF WASHINGTON ST @ EMERSON STREET</td>
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<td>17</td>
<td>044.596</td>
<td>SET RR SPR IN N SIDE OF U.P. @ S.W. CORNER OF WASHINGTON ST &amp; KNOX ST</td>
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<td>18</td>
<td>035.279</td>
<td>SET RR SPR IN N SIDE OF U.P. @ S.W. CORNER OF SEVENTH ST &amp; WASHINGTON ST</td>
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Know what's below. Call before you dig.
**CREST AVENUE TYPICAL SECTION**

<table>
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<tr>
<th>TYPE OF APPLICATION/EXTRUSION</th>
<th>HMA MIX</th>
<th>RATE OF APPLICATION</th>
<th>THICKNESS (INCHES)</th>
<th>Binder</th>
<th>Location/Notes</th>
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<tr>
<td>Bond Coat SS-1h</td>
<td>2015</td>
<td>0.10 GAL/SYD</td>
<td>-</td>
<td>-</td>
<td>INCLUDE IN COST OF HMA ITEM</td>
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<tr>
<td>LVSP</td>
<td></td>
<td>220 LB/SYD</td>
<td>2.25</td>
<td>-</td>
<td>LEVELING COURSE</td>
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<tr>
<td>LVSP</td>
<td></td>
<td>250 LB/SYD</td>
<td>2.25</td>
<td>-</td>
<td>TOP COURSE</td>
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</table>
Know what's below.
Call before you dig.
Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

13 OF 46

CREST, BUENA VISTA, WASHINGTON WATER MAIN
WASHINGTON STREET REMOVALS
STA. 100+00 TO STA. 111+00
SEE SHEET 14
STA: 111+00
SEE ABOVE RIGHT
STA: 106+00
SEE BELOW LEFT
STA: 106+00
REMOVAL KEY
KEY DESCRIPTION

SEE CREST AVE.
SEE BUENA VISTA AVE.
PLAN: 1" = 20'

Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
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ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

WASHINGTON STREET REMOVALS
STA. 111+00 TO STA. 114+48
SEE SHEET 13

REMOVAL KEY

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<tr>
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<td>14 OF 46</td>
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<tr>
<td>2</td>
<td>2016029</td>
</tr>
<tr>
<td>3</td>
<td>CREST, BUENA VISTA, WASHINGTON WATER MAIN</td>
</tr>
</tbody>
</table>

14 OF 46
CAUTION

Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
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CREST / BUENA VISTA / WASHINGTON WATER MAIN
REMOVAL SHEETS

SEE SHEET 15

REMOVAL KEY

KEY

DESCRIPTION

SEE W. WASHINGTON ST.
Crest Ave Water Main Plan and Profile
STA. 0+00 TO STA. 4+00

WATER MAIN STRUCTURE TABLE

<table>
<thead>
<tr>
<th>Structure</th>
<th>TYP</th>
<th>X</th>
<th>Y</th>
<th>RM</th>
<th>E/T/A</th>
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<td>VT</td>
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CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING

CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
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734-794-6410
www.a2gov.org
Know what's below. Call before you dig.
WASHINGTON ST

CAUTION

SW-4
SWR-6
DWS
CG
DC-6
DO-M

3

SEE SHEET 35
STA: 103+50

WASHINGTON
855
860
865

100+00
101+00
102+00
103+00
103+50

PLAN: 1" = 20'

PROFILE: 1" = 2'

Know what's below. Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
CITY OF ANN ARBOR
PUBLIC SERVICES
301 EAST HURON STREET
P.O. BOX 8647
ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

CONSTRUCTION KEY

KEY
DESCRIPTION
HMA
CG
DO-M
DC-6
SW-4
SWR-6
DWS

SEE CREST AVE.
ROAD SHEETS

SEE CREST AVE.
ROAD SHEETS
WASHINGTON ST. ROAD PLAN AND PROFILE
STA. 103+50 TO STA. 107+50

CONSTRUCTION KEY

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<td>SW-4</td>
<td>SWR-6</td>
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<tr>
<td>DWS</td>
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</table>

SEE SHEET 34
STA: 103+50

SEE SHEET 36
STA: 107+50

Know what's below.
Call before you dig.

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
CITY OF ANN ARBOR
PUBLIC SERVICES
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ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

2016029
35 OF 46
CAUTION
UNCOVERED CONSTRUCTION
WEBS

CONSTRUCTION KEY

<table>
<thead>
<tr>
<th>KEY</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>HMA</td>
<td>CG</td>
</tr>
<tr>
<td>DO-M</td>
<td>DC-6</td>
</tr>
<tr>
<td>SW-4</td>
<td>SWR-6</td>
</tr>
<tr>
<td>DWS</td>
<td>ABO</td>
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SEE SHEET 38
STA: 204+50

BUENA VISTA AVE ROAD PLAN AND PROFILE

STA. 200+00 TO STA. 204+50

SEE CREST AVE. ROAD SHEETS

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
CITY OF ANN ARBOR - PUBLIC SERVICES
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ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

2016029

38 OF 46
CREST AVE. ROAD PLAN AND PROFILE
STA. 300+00 TO STA. 304+50

CONSTRUCTION KEY

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<td>HMA</td>
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<td>CG</td>
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<tr>
<td>DO-M</td>
</tr>
<tr>
<td>DC-6</td>
</tr>
<tr>
<td>SW-4</td>
</tr>
<tr>
<td>SWR-6</td>
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<tr>
<td>DWS</td>
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<tr>
<td>ABO</td>
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Know what's below. Call before you dig.
BUENA VISTA AVE
SW-4
SWR-6
DWS
CG
3
CG
3
CG
SW-4
SWR-6
DWS
CREST AVE
HMA
SEE SHEET 41
STA:304+50
SEE SHEET 43
STA:308+50
CREST AVE
850
855
860
865
304+50
305+00
306+00
307+00
308+00
308+50
PLAN:
1" = 20'
PROFILE: 1" = 2'

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING
CITY OF ANN ARBOR
PUBLIC SERVICES
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ANN ARBOR, MI 48107-8647
734-794-6410
www.a2gov.org

CONSTRUCTION KEY
KEY
DESCRIPTION
HMA
CG
DO-M
DC-6
SW-4
SWR-6
DWS
ABO
1
2
3

SEE BUENA VISTA AVE.
ROAD SHEETS
CREST AVE
W WASHINGTON ST
HMA
SEE SHEET 43
STA: 312+50
SEE SHEET 45
STA: 316+50

855
860
865

312+50
313+00
314+00
315+00
316+00
316+50

PLAN: 1" = 20'
PROFILE: 1" = 2'

Know what's below. Call before you dig.

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www.a2gov.org

CONSTRUCTION KEY
KEY
DESCRIPTION
HMA
CG
DO-M
DC-6
SW-4
SWR-6
DWS
ABO
1
2
3

SEE W. WASHINGTON ST. ROAD SHEETS
Know what's below. Call before you dig.