## DUNCAN STREET IMPROVEMENTS

BID No. ITB 4368, FILE No. 2013027


## CONSTRUCTION NOTES:





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6. RESTOOATOO of Al isisube




 12. Tree protection fencing must remain ntact untl restoraton of the site is complete. SEUENCE OF EROSION CONTROL MEASURES:







1. Comelete al gradng and fin granc

2. Clean out stoen sener striews


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seed in accoroance wth prouect drawngs and specieications
ANY IISTurbed area not paved sebod mulcheo sooned or bult upon by novemer 15TH or

PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.


| GRADING/SOIL EROSION \& SEDIMENTATION CONTROL PERMIT* <br> RIGHT-OF-WAY PERMIT* | CITY OF ANN ARBOR CUSTOMER SERVIC CITY OF ANN ARBOR CUSTOMER SERVIC |
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PERMITS REQUIRED TO BE OBTAINED BY THE CITY OF ANN | ARBOR PRIOR TO THE BEGINNING OF CONSTRUCTION |
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| PERMIT |



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BM# ELEV DESCRIPTION
1 970.170 Hydrant at SE Corner of Miller and Duncan
2 965.805 RR spike w face of Utility Pole at House #1030 Duncan
3 906.166 RR spike Eface of Ulility Pole at House #1015 Duncan
4 954.441 RR spike W face of Uilily Pole at House #924 Duncan
5 951.286 Steamer Valve of Hydrant on E side of Duncan at House #910 Duncan
6 952.792 RR spike W face of Utility Pole at House #832 Duncan
7 945.665 RR spike E face of Utility Pole at House #811 Duncan
8 946.421 RR spike W face of Uility Pole at House #708 Duncan
*9
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11 939.392 RR spike S face of Utility Pole at NW Comer of Alice and Bruce
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| Proposese stomm sewen stucture tall |  |  |  |  |  |  |
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| structrie | ${ }_{\text {donen }}^{\text {goan }}$ | \|mere Elivano |  |  | sze |  |
| ${ }^{81}$ |  | ${ }^{12}$ 's stist | 9837 | 446 | ${ }^{24} 0^{\circ} \mathrm{Da}$ |  |
| ${ }^{82}$ |  | ${ }^{12} 2.51590004$ | ${ }^{83} 54$ | 560 | ${ }^{24}{ }^{4} \mathrm{ob}_{3} \mathrm{~S}_{5}$ | Some |
| ${ }^{\text {R }}$ |  | 12 s | 927 | ${ }^{6.30}$ | ${ }^{24} \mathrm{cos}^{\text {ia }}$ |  |
| ${ }^{84}$ |  | ${ }^{125898985}$ | ${ }^{92253}$ | 4.90 | ${ }^{24}{ }^{4} \mathrm{ios}$ | Some |
| ${ }^{\text {p5 }}$ | 近 | ${ }^{12}$ \% | s0032 | 375 | $24^{\circ} \mathrm{oa}$ | Some |
| ${ }_{88-88585}$ |  |  | ${ }^{98989}$ | 540 | $4^{48}$ oba | Some |
| ${ }^{\text {¢ }}$ |  | ${ }^{12 \times 10} 84.12$ | 9.982 | 470 |  | Soseme |
| ${ }^{\text {R7 }}$ | ${ }_{\text {a }}^{12+589}$ | 12.58 .858 | 9828 | 540 | $24^{200}$ |  |
| ${ }^{\text {®8 }}$ |  | $1^{12}$ Stw 3 seos | ${ }^{21218}$ | 5.10 | ${ }^{24}{ }^{\circ} \mathrm{oa}$ | Some |
| ${ }^{\text {p9 }}$ |  | ${ }^{12.8585838}$ | ${ }^{23} 38$ | 6,0 | ${ }^{24}{ }^{\circ} \mathrm{ob}$ |  |
| ${ }^{\text {R10 }}$ |  | ${ }^{12} 58.53 .90$ | ${ }^{93} 830$ | 370 | ${ }^{24}{ }^{\circ} \mathrm{oa}$ |  |
| ${ }^{\text {en }}$ |  | ${ }_{12}{ }^{2} 58583720$ | 90.00 | 930 | ${ }^{24}{ }^{\circ} \mathrm{OLO}$ |  |
| ${ }^{\mathrm{R} 12}$ |  | $1^{12}$ :54 985 | 90.20 | 5.10 |  |  |
| ${ }^{\text {R13 }}$ | lotat | $1^{2}$ NE ¢Esan | 98001 | 400 | $24^{\circ} \mathrm{ob}$ |  |
| ${ }^{\text {R14 }}$ |  |  | ${ }^{3897}$ | 480 | ${ }^{24} 0^{\circ 0}$ |  |
| ${ }^{\text {R15 }}$ |  |  | ${ }^{937.68}$ | 550 | ${ }^{24}{ }^{\circ} \mathrm{oa}$ | Some |
| ${ }^{\text {R16 }}$ |  | ${ }^{125853580}$ | 937.0 | 560 | ${ }^{24}{ }^{\circ} \mathrm{Da}$ | Some |
| ${ }^{\text {R17 }}$ | ${ }^{19,280}$ | ${ }^{12 \cdot N 0.3288}$ | ${ }^{33,28}$ | 8,30 | $24 \%$ oe |  |
| ${ }_{\text {R18 }}$ |  |  | 98645 | 560 | 24 ona |  |


| STORM Sewer stuctung tall |  |  |  |  |  |  |
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| strucrues | Spation |  |  |  | SIE |  |
| R(139) |  | $12 \cdot 589895$ | ${ }^{9645}$ | 460 | $24^{\circ} 0^{\circ 0}$ |  |
| ${ }_{88-8,487}$ |  | ${ }_{12} 2^{2}$ s 96,51 | 90397 | 248 | $24^{\circ} 0$ |  |
| $8^{8-6,6,45}$ |  |  | ${ }^{98866}$ | 360 | $24^{\circ} 0$ |  |
| ${ }^{22-5705}$ |  |  | 96,37 | ${ }^{865}$ | $480^{\circ} 0$ | \% wh |
| 2-57004 | ${ }_{\text {chen }}^{3}$ |  | ${ }^{96322}$ | 10,5 | ${ }_{48} 8^{\circ} \mathrm{OL}$ | \% wh |
| ${ }_{88-6,465}$ | ${ }_{\text {cosem }}^{\substack{\text { ctasax }}}$ | ${ }^{12 \cdot 5989467}$ | 9527 | 4.30 | $24^{\circ} 0$ | (emen |
| ${ }^{88-6,465}$ | ${ }_{\text {ditur }}^{\text {ititer }}$ | ${ }_{12} E^{298983}$ | 9225 | 230 | $24^{\circ} 0^{\circ}$ |  |
| ${ }^{22-56098}$ |  |  | ${ }_{\text {s25 } 24}$ | 1020 | ${ }_{88} 8^{\text {obe }}$ | \% wnt |
| ${ }^{22-5609}$ | ${ }_{-10040}^{7}$ | ${ }^{10} 5$ | S0096 | 280 | $4^{40} 0$ | 4 4 wh |
| ${ }^{88-06485}$ |  | ${ }_{12} 2^{296452}$ | 98867 | 245 | ${ }^{\text {oba }}$ |  |
| ${ }^{2}-5850$ |  |  | 98, 98 | 659 | $180^{\circ} 0$ | ¢ wh |
| ${ }^{8-6-6,45}$ |  | ${ }^{12 \cdot 14} 98485$ | 980, 3 | 175 | $24^{\circ} \mathrm{oma}$ |  |
| ${ }^{22-58995}$ |  | ${ }^{12}$ | ${ }^{\text {s56,12 }}$ | 520 | $4^{40} 0$ |  |
| ${ }^{22-56898}$ | $\underbrace{98288}$ |  | ${ }^{\text {S5127 }}$ | 8.0 | ${ }^{88} 0^{\circ} \mathrm{ba}$ | 4 mm |
| ${ }^{88-6845} 5$ |  |  | 98.98 | 338 | ${ }^{48} 8^{\circ} \mathrm{cos}$ |  |
|  | ${ }_{\text {ater }}^{\text {atater }}$ |  | 98982 | 270 | $22^{\circ} 0$ |  |
| ${ }_{R}^{\text {R(sas) }}$ | ${ }^{12+58}$ |  | 93422 | ¢, 30 |  | 4 Nm |
| ${ }^{88-6,4,50}$ |  | ${ }_{12} 2.58$ ceseas | 9822 | 3.0 | $22^{\circ} \mathrm{O}$ | orem |
| $88-6856$ |  | ${ }_{\text {cosem }}^{6}$ | 922,18 | 310 | $22^{\circ} 0$ |  |
| ${ }^{22-56898}$ |  |  | งsx 1 | 820 | ${ }_{48} 8^{2} 0$ | \% un |
| 88-6449 |  | ${ }^{12}$ 2sc ssasas | ${ }^{283} 3$ | 410 | $22^{\circ} \mathrm{oba}$ |  |
| 88-644/8 |  | ${ }^{12} 58.53890$ | 98580 | 350 | $24^{\circ} 000$ | (emen mer |
| ${ }^{22-8589}$ |  |  | 94* | 930 | ${ }_{88} 80_{0}$ | \% w+ |
| ${ }^{88-50774}$ |  |  | 92080 | 3, | $24^{\circ} 0$ |  |
| ${ }^{88-50775}$ |  | ${ }^{12} \cdot 538383710$ | 90202 | 310 | $24^{\circ} \mathrm{ol}$ |  |
| E8532 |  |  | 92076 | 238 | 480 | \% wh |
| ${ }^{92-5680}$ |  |  | 90,44 | 270 | 1880 | * w |
| ${ }_{88-6,468}$ |  |  | 98001 | 200 | $24^{\circ} \mathrm{oac}$ |  |
| 88-68457 |  |  | 29823 | 230 | $2240_{\circ 00}$ |  |
| ${ }^{88-6839}$ | ${ }_{\text {cose }}^{19+45}$ | ${ }_{12}^{20.5 c}$ sstas | ss768 | 350 | $24^{\circ} \mathrm{om}$ |  |
| ${ }^{92-58888}$ |  |  | 9370 | 790 | ${ }_{88} 8^{\circ} \mathrm{co}$ | \% w |
| ${ }^{2-56887}$ |  |  | ${ }^{\text {s77 }}$ \% | 8 80 | ${ }_{48} 0^{\circ} \mathrm{ob}$ | * wh |
| ${ }_{88-68380}$ |  |  | 98729 | 4.30 | $22^{\circ} 0$ |  |
| se-6tor |  |  | ${ }^{98845}$ | 350 | $2240_{000}$ |  |



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| structre | тpe | ${ }_{\text {granion }}^{\text {sin }}$ | Rm | овPTH |
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| Ox mot $0_{0} 20.0080$ |  |  | 98.09 |  |


| Proposew mate man |  |  |  |  |
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| Spucrue | TMPE | Sulur | Rm | овPM |
| ${ }^{\text {n-3 }}$ | mopent | ${ }_{\text {orot }}^{0}$ | S8520 | 6,00 |
| n-1 | новamt | Oot | s1.62 | s.0 |
| ${ }^{\text {n-5 }}$ | Hopent | ${ }_{\text {ator }}^{0+15}$ | 920.19 | 6.00 |
| n-4 | новект | coto | 94421 | 600 |
| ${ }^{\text {n-2 }}$ | новant | ${ }_{0}^{0+288}$ | 99.50 | 6.00 |
| ${ }^{v-1}$ | 8 cura | ${ }_{\text {atoc }}^{\text {ato }}$ | ssios | 6.17 |
| $v-2$ | 8 crum | 20012 | s5068 | 8.16 |
| ${ }^{v-4}$ | 8 cuxa | ${ }_{\text {a }}^{\substack{\text { a } \\ \text { ata }}}$ | 98587 | 6,17 |
| ${ }^{\text {v-5 }}$ | 8 aval | ${ }_{\text {dot }}^{1728}$ | 900.39 | 6.16 |
| $v-6$ | 8 aver | (9,060 | 87,91 | 6,17 |



















