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PRoJECT TEAM ARCHIIECTURE + NTreriors





 MEGANECAL + ELECTRCCAL
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GRACEHILL

|  | ese | E \& A CONSULTING GROUP, INC. <br> Engineering • Planning • Environmental \& Field Services | C1-0 <br> CONSTRUCTION DOCUMENTS BCDM NO. 5424-00 |
| :---: | :---: | :---: | :---: |
|  |  | 10909 Mill Valley Road, Suite $100 \bullet$ Omaha, NE 68154 Phone: $402.895 .4700 \bullet$ Fax: 402.895 .3599 www.eacg.com State of NE Certificate of Authorization \#CA0008 |  |



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PROJECT TEAM











GRACEHILL NEW CHURCH


General granog notes

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© GAS REFERECE NOTES




(RNX) Refrernce notes




NOTE:


| Wx | CONstruct santark sewer manhole |
| :---: | :---: |
| No. | Descrapton |
| m | 54" Sanitary Sewer Manhole Rim = 1207.73 FL $(8$ " Out $)=1195.98$ FL $\left(8^{\prime \prime} \ln \right)=1197.93$ |
| w2 | $\begin{array}{\|l} \hline 54 " \text { Sanitary Sewer Manhole, } \\ \text { Rim }=1209.39 \\ \text { FL }\left(8^{\prime \prime} \operatorname{In}\right)=1201.98 \\ \text { FL (8" Out })=1200.03 \end{array}$ |
| w | $\begin{aligned} & \text { 54" Sanitary Sewer Manhole, } \\ & \text { Rim }=1217.00 \\ & \text { FL }(8 \text { " } \ln )=1207.94 \\ & \text { FL (8" Out })=1207.84 \end{aligned}$ |



|  | W㐅 Construct storm sewer stucture |
| :---: | :---: |
| No. | Descripion |
| ${ }_{\text {F1 }}$ | 24" Flared End Section, FL $(24 " I n)=1191.25$ |
|  | $\begin{aligned} & \text { 54" Manhole, Rim = } 1203.41 \\ & \text { FL }\left(244^{\prime \prime} \text { In }\right)=1197.99 \\ & \text { FL }(24 \text { " Out })=1191.72 \end{aligned}$ |


| $\Leftrightarrow$ | Construct 2' X3' Curb inlet |
| :---: | :---: |
| No. | DEscerpion |
| 9 | Curb Inlet TOC $=1207.47$, Grate $=1206.97$ FL $\left(244^{\prime \prime}\right.$ In $)=1200.75$ <br> FL (24" In $)=1200.75$ FL (24" Out) $=1198.6$ |
| 02 | Curb Inlet TOC $=1210.40$, Grate $=1209.90$ FL (18" In $)=1205.14$ FL ( 24 " Out) $=1204.64$ |
| ${ }^{\text {c }}$ | Curb Inlet TOC $=1215.38$, Grate $=1214.88$ FL $(15 " I n)=1210.37$ FL (18" Out) $=1210.12$ |



PCSMP PERMIT NOTE:










Speeficiains






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| Senerateding | <br>  <br> 




ADA RAMP DETAIL ( 6 " VERTICAL CURB) Not to SCALE


notes

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HANDICAP PARKING STALL STENCIL DETAI Not To SCALE


PEDESTRIAN RAMP DETAIL


4" SIDEWALK DETAIL
Not to scale


DEPRESSED HANDICAP RAMP DETAIL


HANDICAP PARKING SIGN not to SCALE


SEGMENTAL BLOCK RETAINING WALL
general notes \&
detalls

C6-0



VALVE BOX SETTING not to scale

Note: Retainer is not a direct pay item. CONCRETE RING RETAINER Not TO SCALE


HORIZONTAL BACKING BLOCKS Not to scale


VERTICAL BACKING BLOCKS Not to scale


SEWER CLEANOUT DETAIL

| FITTING | DIMENSION |  |  |  |  |  | $\frac{\text { BEAM }}{G}$ | $\frac{\text { VOLUME }}{} \frac{\text { CUYD }}{}$ | BEAM |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | c | D | E | F |  |  | No | SIZE | Embed |
| $16^{\prime \prime} \times 16{ }^{\prime \prime}$ Tee | 5-6" | 4-6" | 4-0" | 1-0" |  |  |  | 2.31 |  |  |  |
| $16^{\prime \prime} \times 12$ " Tee | $3^{3}-6{ }^{\prime \prime}$ | 3-6" | 4-0" | 1'0" |  |  |  | 1.18 |  |  |  |
| 16"x $8^{\prime \prime}$ " Tee | 2'6" | 2'6" | 3'0'1 | 0'6" |  |  |  | 37 |  |  |  |
| ${ }^{16 " \times 6 " 7 e e}$ | 2-0" | 2-0" | 2-6" | 0'6" |  |  |  | . 22 |  |  |  |
| 12" $\times 12^{\prime \prime}$ Tee | $3^{3-6 "}$ | 3-6" | 4-0" | 1'0" |  |  |  | 1.18 |  |  |  |
| 12"x $8^{\text {" }}$ Tee | 2'6" | 2'6" | 3'0" | $0^{0}$ '6" |  |  |  | . 37 |  |  |  |
| 12 Cx " "ee | 2-0" | 2-0" | 2-6" | 0'6" |  |  |  | . 22 |  |  |  |
| $8^{\prime \prime} \times 8^{\prime \prime}$ Tee | 2-6" | 2-6" | 3-0" | 0'6" |  |  |  | . 37 |  |  |  |
| $8^{\prime \prime} \times 66^{\prime \prime}$ Tee | $2^{2}$-01 | 2-0" | 2-3" | 0'6" |  |  |  | . 22 |  |  |  |
| $6^{\prime \prime} \times 6^{\prime \prime}$ Tee | $2^{2}$-0" | 2-0" | 2-6" | 0'6" |  |  |  | 22 |  |  |  |
| 16" Plug Or Cap | $3^{3}-0^{\prime \prime}$ | 3-6" | 4-0" | 2-0" | 1'-6" | 5'0" | W $14 \times 348 \mathrm{~B}^{\prime}$ | 3.11 |  |  |  |
| 12" Plug Or Cap | ${ }^{2}$-6" | 2-6" | 3-6" | 1'6" | $1^{1-01}$ | 5'0" | W $14 \times 22$ 7'L | 1.62 |  |  |  |
| 8" Plug Or Cap | 2-6" | 2-6" | 3-0" | 0'6" |  |  |  | 37 |  |  |  |
| 6" Plug Or Cap | $2^{2}-01$ | 2-0" | 2-6" | 0'6" |  |  |  | . 22 |  |  |  |
| End of Main Hydrant for 8" Main | 2-6" | 2-6" | 3-0" | 0'6" |  |  |  | . 37 |  |  |  |
| End of Main Hydrant for 6" Main | $2^{2}$-0" | 2-0" | 2-6" | 0'6" |  |  |  | . 22 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Horizontal Bends |  |  |  |  |  |  |  |  |  |  |  |
| $16^{\prime \prime} \times 90^{\circ}$ | 6'6" | 5-0" | 4-6" | 1'0" |  |  |  | 3.79 |  |  |  |
| $16^{\prime \prime} \times 45^{\circ}$ | 4-6" | 4'0" | 4-0" | 1'0" |  |  |  | 1.73 |  |  |  |
| 16"X $22.5{ }^{\circ}$ | 3-6" | 3'6" | 3-6" | 1'0" |  |  |  | 1.26 |  |  |  |
| $16^{\prime \prime} \times 11.25^{\circ}$ | $2^{2}-3{ }^{\prime \prime}$ | 2'3" | $3{ }^{3}-3^{\prime \prime}$ | 1'0" |  |  |  | . 46 |  |  |  |
| 12" $\times 90^{\circ}$ | 4-01 | 4-0" | 4-0" | 1'0" |  |  |  | 1.63 |  |  |  |
| ${ }^{12} \mathrm{\prime} \mathrm{\prime} \times 45^{\circ}$ | $3^{3}-1{ }^{11}$ | 3-0" | 3-0" | 1'0" |  |  |  | . 81 |  |  |  |
| 12" $\times 22.5{ }^{\circ}$ | 2-6" | 2'6" | 3-0" | 1'0" |  |  |  | . 53 |  |  |  |
| ${ }^{12} \mathrm{\prime} \mathrm{\prime} \times 11.25^{\circ}$ | 1'-9" | 1'-9" | 2-9" | 1'0" |  |  |  | . 24 |  |  |  |
| $8^{\prime \prime} \times 90^{\circ}$ | $3^{3}-01$ | 3-0" | 3-6" | 0'6" |  |  |  | . 59 |  |  |  |
| $8^{\prime \prime} \times 45^{\circ}$ | 2-0" | 2-0" | 2-6" | $0^{0}-6{ }^{\prime \prime}$ |  |  |  | . 22 |  |  |  |
| 8"X22.5 ${ }^{\circ}$ | $1^{1}$-6" | $1^{1}$-6" | 2-0" | 0'6" |  |  |  | . 11 |  |  |  |
| $88^{\prime \prime} \times 11.25^{\circ}$ | $1^{1}$-3" | 1'3" ${ }^{\prime \prime}$ | 1'-9" | $0^{\prime} 6^{\prime \prime}$ |  |  |  | . 07 |  |  |  |
| $6 " \times 90^{\circ}$ | 2-0" | 2'01 | 2-6" | $0^{0}$ '6" |  |  |  | . 22 |  |  |  |
| $6^{\prime \prime} \times 45^{\circ}$ | $1^{1}$-6" | $1^{1-6 "}$ | 2-0" | 0'6" |  |  |  | . 10 |  |  |  |
| $6^{\prime \prime} \times 22.5{ }^{\circ}$ | $1^{1}-10$ | $1^{1-0 / 1}$ | $1^{1-6 "}$ | 0'6" |  |  |  | . 04 |  |  |  |
| $6^{\prime \prime} \times 11.25^{\circ}$ | 1'-0" | 1'-0" | $1^{1}$-6" | $0^{\prime}-6{ }^{\prime \prime}$ |  |  |  | . 04 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| $8{ }^{\prime \prime} \times 45^{\circ}$ Top | 4-0" | 4-0" | 2-0" | 4-6" | 2-0" | 2-0" |  | 2.33 | 2 | 1"X 1/4" | 18' |
| 8" $\times 45^{\circ}$ Bottom | 2-0" | 2-0" | 2-0" | 0'6" |  |  |  | . 22 |  |  |  |
| $6^{\prime \prime} \times 45^{\circ}$ Top | $3^{3-6 "}$ | $3{ }^{3}-0^{\prime \prime}$ | $1^{1-6 "}$ | 3-6" | 2-0" | 1'-6" |  | 1.43 | 2 | 1"X 1/4" | 18' |
| 6" $\times 45^{\circ}$ Bottom | $1^{1}$-6" | $1^{1}$-6" | $1^{1-6 "}$ | $0^{0}-6{ }^{\prime \prime}$ |  |  |  | . 10 |  |  |  |



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