

JUL 25 2007

Rapid City Growth Management Department

CONSTRUCT 235 LF 8" PVC SANITARY SEWER MAIN, CONNECT TO EXISTING MANHOLE.

CONSTRUCT STANDARD CONCRETE MANHOLE

CONSTRUCT 277 LF 8" PVC SANITARY SEWER SERVICE WITH 4 CLEANOUTS

CONSTRUCT 4" PVC SANITARY SEWER SERVICE W/ CLEANOUT

CONSTRUCT 4" PVC FIRE SERVICE AND 2" DOMESTIC WATER SERVICE WITH CURB STOP

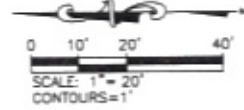
FURNISH & INSTALL GAS SERVICE TO BUILDING, CONTACT GAS COMPANY TO COORDINATE LOCATION

FURNISH & INSTALL 8" TAPPING SLEEVE AND 8" GATE VALVE

FURNISH & INSTALL FIRE HYDRANT WITH 8" LEAD, GATE VALVE AND THROST BLOCK

VALVE AND CAP FOR FUTURE EXTENSION, MAINTAIN MINIMUM DEPTH OF 72" COVER

CONSTRUCT SILT FENCE WITH 2 STRAW BALE DISCHARGE LOCATIONS



LEGEND

- ▲ CONTROL POINT
- MANHOLE
- POWER POLE
- FIRE HYDRANT
- WATER VALVE
- CURB STOP
- TELEPHONE BOX
- DECIDUOUS TREE
- CONIFEROUS TREE
- CONCRETE SURFACE
- ASPHALT SURFACE
- LANDSCAPE SURFACE
- GAS LINE
- WATER LINE
- POWER LINE
- UNDERGROUND TELEPHONE LINE
- OVERHEAD POWER LINE
- CHAIN LINK FENCE
- CONTOUR MINOR (1')
- CONTOUR MAJOR (5')
- DENOTES FOUND 5/8" MONUMENT
- DENOTES SET 5/8" REBAR MARKED UNLESS OTHERWISE NOTED
- PROPOSED GAS LINE
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED CONTOUR

BENCH MARK: ELEVATIONS ARE BASED ON CITY OF RAPID CITY BENCHMARK #2001 WITH A PUBLISHED ELEVATION OF 3251.94' NGVD29

MINOR DRAINAGE AND UTILITY EASEMENTS, IF ON THE INTERIOR SIDE OF ALL LOT LINES

NOTE:

- 1 CONTRACTOR TO FURNISH AND INSTALL SUFFICIENT EROSION CONTROL TO PREVENT EROSION ONTO NEIGHBORING PROPERTY AND ST. PATRICK STREET.
- 2 SEED, FERTILIZE AND MULCH ALL LANDSCAPE AREAS. SALVAGE AND REPLACE TOPSOIL.
- 3 CONTRACTOR: PROVIDE APPROVED TRAFFIC CONTROL PLAN AS NEEDED.
- 4 ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF RAPID CITY STANDARDS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

LANDSCAPE DESIGN PLAN

PROJECT LIMITS=128,422 sq ft  
BUILDING SIZE=20,800 sq ft  
REQUIRED LANDSCAPE POINTS=107,522 pts

ACTUAL LANDSCAPE POINTS:

85 SHRUBS @250pts=21,250 pts  
13 MEDIUM TREES @1000pts=13,000 pts  
14 SMALL TREES @500pts=7,000 pts  
7,284 sq ft of GRASSED AREA @10pts/sq ft=72,840 pts  
ACTUAL LANDSCAPE TOTAL POINTS=108,000 pts

LANDSCAPE CALCULATIONS:

REQUIRED LANDSCAPE POINTS=107,522  
PROPOSED LANDSCAPE POINTS=108,000  
+478

DIRT QUANTITY ANALYSIS

Original Surface Model: Existing  
Final Surface Model: Prop-10"  
Cut Composition Factor: 0.00%  
Fill Composition Factor: 15.00%

Raw Cut Volume: 1641.49 cy  
Compacted Cut Volume: 0.00 cy  
Total Cut Volume: 1641.49 cy

Raw Fill Volume: 6082.93 cy  
Compacted Fill Volume: 912.44 cy  
Total Fill Volume: 6995.36 cy

Remner Engineering Company  
818 South St. • Rapid City, SD 57701 • 605/721-7310  
Fax: 605/721-7313 • E-Mail: [car@remner.com](mailto:car@remner.com)  
Rapid City, SD  
Operation Office: 605/717-0516



Scale: 1"=20'  
Designed By: GDR  
Design Date: 6/11/07  
Surveyed By: DJ, JD, TA  
Reviewed:

Drawn By: ADP  
Print Date: 7/10/07  
Survey Date: 3/9/07

LOCATION:  
SALVATION ARMY  
FAMILY ENRICHMENT CENTER  
LOT 1 OF HORIZONS SUBDIVISION  
LOCATED IN THE NE 1/4 OF THE NW 1/4,  
SECTION 7, T1N, R8E, BHM,  
RAPID CITY, PENNINGTON COUNTY, SOUTH DAKOTA

Present For:  
GUSTAFSON BUILDERS  
PO BOX 1376  
RAPID CITY, SD 57709  
ATTN: PETE NEUMANN

Internal Job No:  
#2145.06

Sheet Title:  
GRADING, UTILITY, &  
LANDSCAPE PLAN  
SALVATION ARMY



RECEIVED

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CONSTRUCT STANDARD CONCRETE MANHOLE

MAJOR DRAINAGE EASEMENT AS SHOWN IN PLAT BOOK 32, PAGE 106

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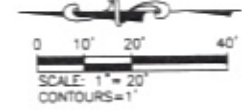
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Renner Engineering Company  
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FAX: 605/731-7313 • E-MAIL: Gary@RennerAssoc.com  
Specialty Office: 605/717-0818



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Project No: #2145.06  
Drawn Title: GRADING, UTILITY, & LANDSCAPE PLAN  
SALVATION ARMY