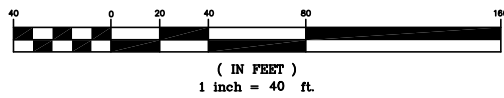
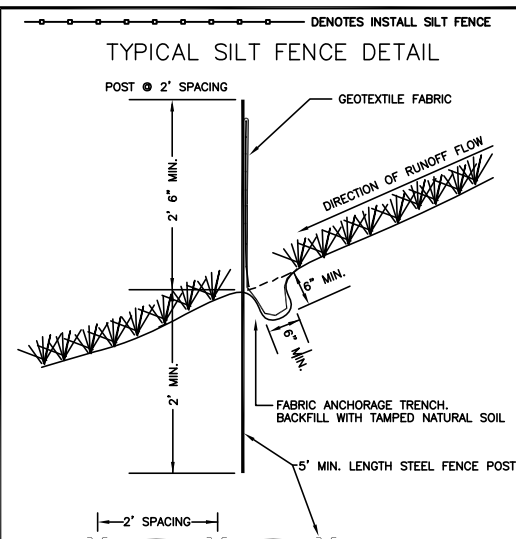




GRAPHIC SCALE



TYPICAL SILT FENCE DETAIL



- CONTRACTOR SHALL INSPECT SILT FENCE AREAS ON A WEEKLY BASIS AND WITHIN 24 HOURS OF EACH 1/4" RAIN EVENT FOR ANY DAMAGE TO FILLING OF THE SILT FENCE. ANY REPAIRS OF MAINTENANCE OF THE SILT FENCE SHALL BE ACCOMPLISHED WITHIN 24 HOURS OF THE RAIN FALL AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL REMOVE SILT FENCE DURING THE SODDING PHASE OF CONSTRUCTION WHEN THE THREAT OF EROSION NO LONGER EXISTS, OR AS DIRECTED BY THE ENGINEER.

GRADING NOTES:

- 1.) ALL EROSION CONTROL MEASURES SHALL MEET AND/OR EXCEED THE MnPCA NPDES PERMIT AND THE CITY OF RED WING, STORM WATER MANAGEMENT REQUIREMENTS.
- 2.) SILT FENCE, CONSTRUCTION ENTRANCE, PONDING BASINS, PERIMETER DRAINAGE SWALES ARE TO BE CONSTRUCTED FIRST.
- 3.) ALL GRADING SHALL BE CONDUCTED IN A MANNER TO MINIMIZE THE POTENTIAL FOR SITE EROSION.
- 4.) SPREAD 4" TOPSOIL SEED AND MULCH OVER THE ENTIRE SITE EXCEPT PONDS, AND PHASE ONE STREET AND UTILITY AREAS.
- 5.) CITY OF RED WING INSPECTOR MAY BE PRESENT DURING SOIL TESTING, TEST ROLLING IS REQUIRED.
- 6.) A TEMPORARY STAGING STOCKPILE, AND BORROW SHALL BE MAINTAINED AND CONTROLLED.
- 7.) ALL BUILDING PAD AREAS SHALL BE INSPECTED AND APPROVED BEFORE FILL PLACEMENT.
- 8.) RETAINING WALLS MUST BE DESIGNED BY AN ENGINEER AND APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

EROSION CONTROL NOTES:

- 1.) PLACE EROSION CONTROL PROTECTION AT ALL STORM SEWER INLETS AND WHERE DIRECTED BY THE ENGINEER.
- 2.) PLACE SILT FENCE WHERE SHOWN ON PLANS AND AS DIRECTED BY THE ENGINEER.
- 3.) SEED, FERTILIZE AND MULCH ALL DISTURBED AREAS EXCEPT ROADWAYS.
  - A.) TEMPORARY SEED MIXTURE SHALL BE WHEAT, RYE, OATS OR REGREEN AT 100 LBS/ACRE.
  - B.) PERMANENT SEED MIXTURE SHALL BE #500 AT 100 LBS/ACRE.
  - C.) MULCH SHALL BE MnDOT TYPE 1 MULCH AT 2 TONS/ACRE.
  - C.) FERTILIZER SHALL BE 25-5-10 AT 200 LBS/ACRE.
- 4.) MPCA STORM WATER PERMIT IS REQUIRED FOR THIS PROJECT.
- 5.) EROSION CONTROL IS TO BE PROVIDED IN ACCORDANCE WITH THE PROJECT'S STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
- 6.) SILT FENCE, CONSTRUCTION ENTRANCE, PONDING, DRAINAGE SWALES ARE TO BE CONSTRUCTED FIRST.
- 7.) ADDITIONAL EROSION CONTROL MEASURES SHALL BE REQUIRED IN AREAS, IF AN EROSION PATTERN OCCURS.
- 8.) APPLY WATER AS NEEDED AND AS DIRECTED BY THE ENGINEER TO CONTROL DUST.
- 9.) ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED AS SOON AS POSSIBLE. AREAS THAT HAVE BEEN DISTURBED OR ARE AT FINISHED GRADE, BUT HAVE NO ACTIVE GRADING, SHALL BE SEEDED AND MULCHED WITHIN 14 DAYS, EXCEPT ON SLOPES STEEPER THAN 4H:1V. SLOPES 3H:1V OR STEEPER SHALL BE SEEDED AND COVERED WITH AN EROSION CONTROL BLANKET OR SEEDED AND MULCHED WITH A TACKIFYING AGENT (GLUE IMPREGNATED PAPER MULCH SHALL NOT BE USED).

**WARNING**  
 BEFORE DIGGING CALL GOPHER  
 STATE ONE CALL FOR LOCATIONS.  
 651-454-0002  
 REQUIRED BY LAW

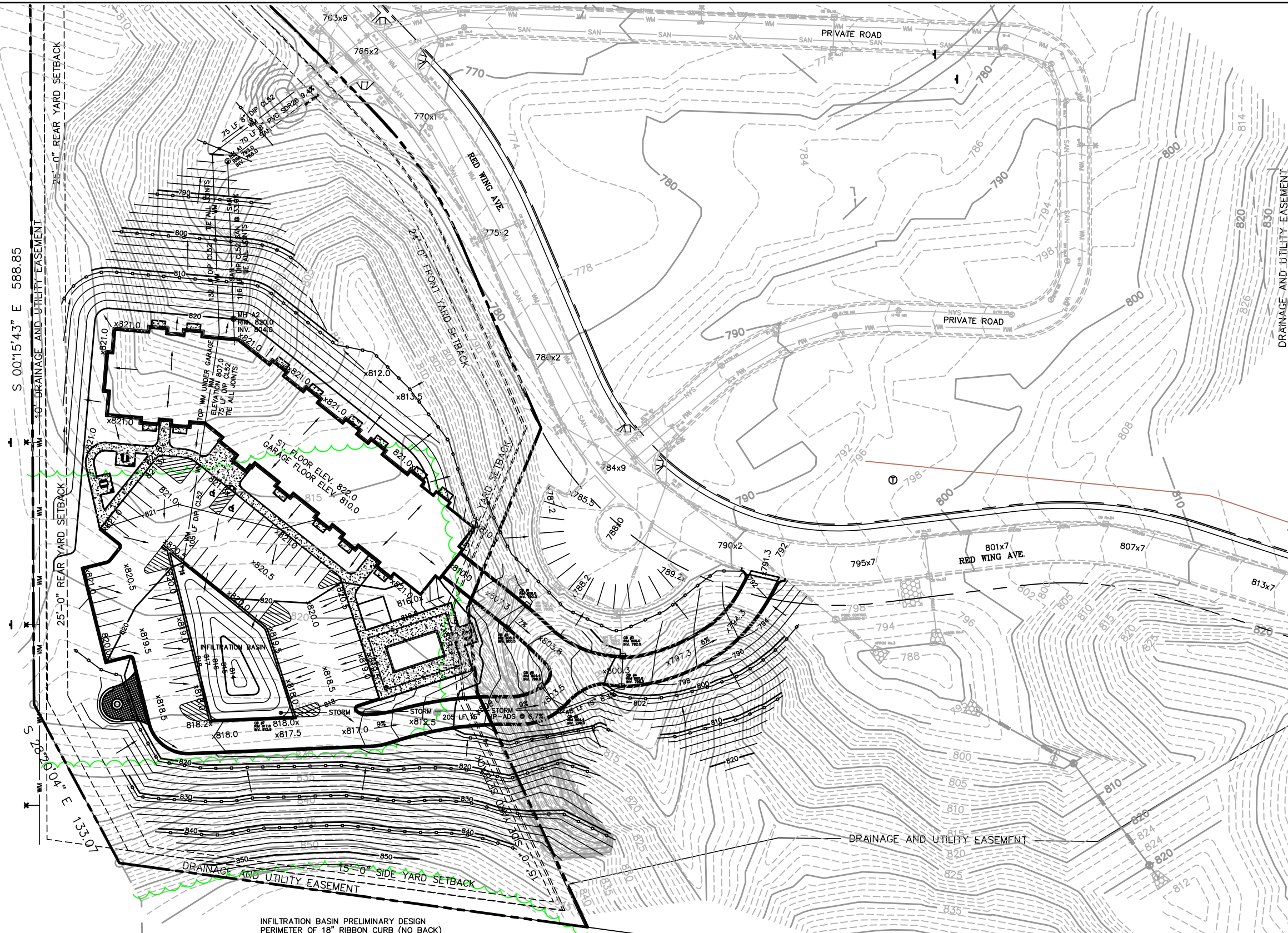
INFILTRATION BASIN PRELIMINARY DESIGN  
 PERIMETER OF 18" RIBBON CURB (NO BACK)  
 OUTLET CONTROL B17.8  
 EMERGENCY OVERFLOW ELEV. 818.0  
 6:1 SLOPES  
 BOTTOM ELEV. 814.0

BASIN STORAGE AREAS	
ELEV. 818	4,630 SQ. FT.
ELEV. 817	2,960 SQ. FT.
ELEV. 816	1,660 SQ. FT.
ELEV. 815	730 SQ. FT.
ELEV. 814	140 SQ. FT.

SITE GRADING SUMMARY  
 TOTAL DISTURBED AREA = 3.7 ACRES  
 WOODED AREA DISTURBED APPROX. 2.0 ACRES  
 ESTIMATED COMMON EXCAVATION 20,000 CU. YDS.  
 ESTIMATED SUBGRADE CORRECTION AND TOPSOIL  
 REMOVAL IN FILL AREAS 5,000 CU. YDS.  
 EARTHWORK ESTIMATED TO BALANCE ONSITE

UTILITY NOTE:

- 1.) ALL STORM SEWER SHALL BE 15" HP-ADS PVC PIPE.



**G-Cubed Inc.**  
 Engineering  
 Surveying  
 Planning

285 Westview Drive  
 West Saint Paul, MN 55118  
 ph. 651.288.9474 fax 651.455.4948

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

*Mark R. Welch*  
 Mark R. Welch  
 DATE 8/08/2016 REG. NO. 42736

DESIGNED	BY	DATE
DJT		
DRAWN		
CHECKED		

REVISED

LATEST REVISION: 8-08-2016

Prepared For:  
 Andy Baartman  
 321 Potter Street  
 Red Wing, MN 55066

FILE NO.: 03212-CP baartman

CITY OF REDWING  
 GOODHUE COUNTY, MINNESOTA  
 2016 CONSTRUCTION

GRADING, DRAINAGE AND  
 EROSION CONTROL PLAN

Rivers Ridge Apartments

BENCHMARK: T.N.H. EAST SIDE OF THE INTERSECTION OF BURNSIDE AVE. AND STATE STREET, ELEV: 749.12

SHEET 1 OF 1 SHEETS