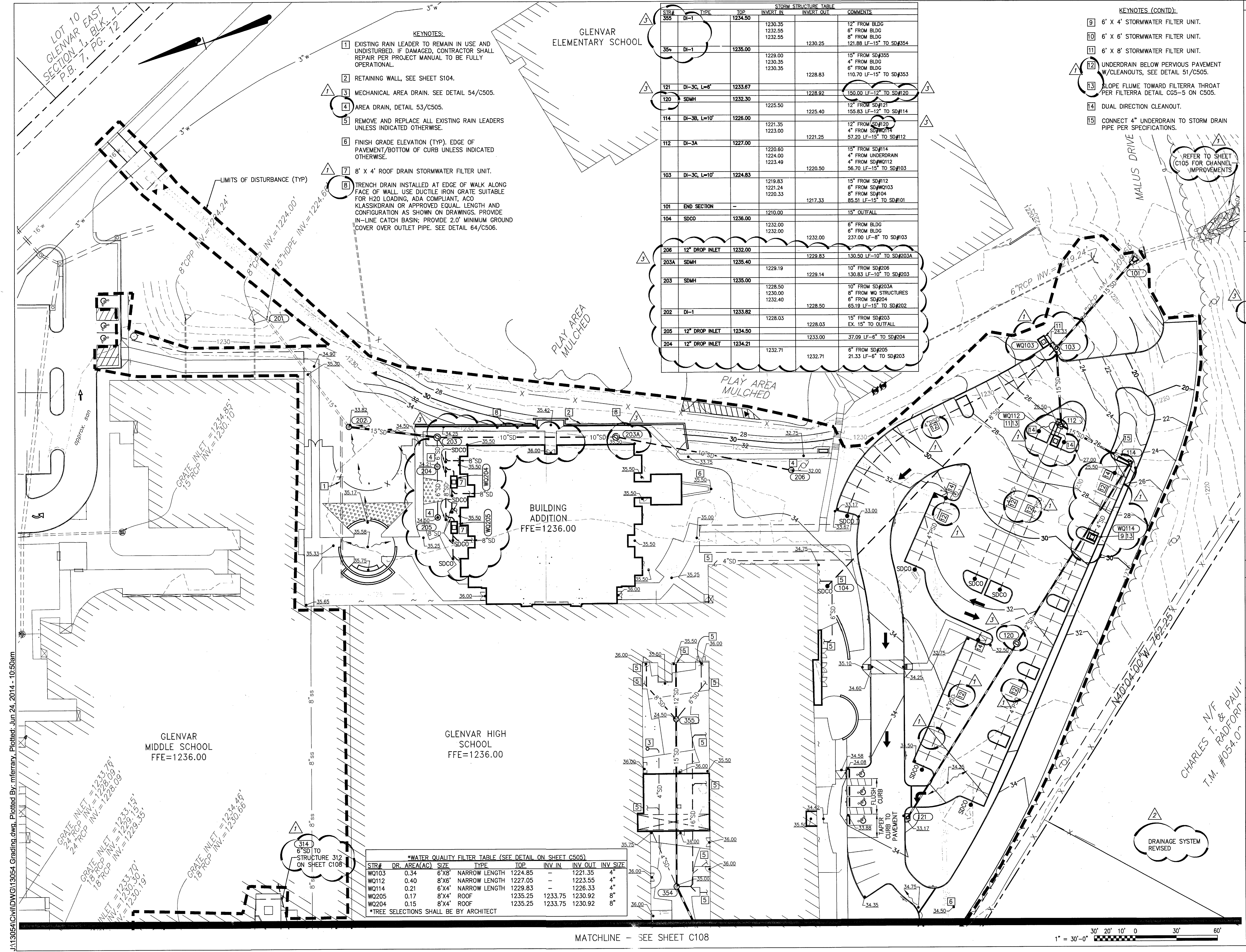


J:\13054\Civil\DWG\13054 Grading.dwg, Plotted By: mferary, Plotted: Jun 24, 2014 - 10:50am



GLENVAR
ELEMENTARY SCHOOL

KEYNOTES:

- EXISTING RAIN LEADER TO REMAIN IN USE AND UNDISTURBED. IF DAMAGED, CONTRACTOR SHALL REPAIR PER PROJECT MANUAL TO BE FULLY OPERATIONAL.
- RETAINING WALL, SEE SHEET S104.
- MECHANICAL AREA DRAIN. SEE DETAIL 54/C505.
- AREA DRAIN, DETAIL 53/C505.
- REMOVE AND REPLACE ALL EXISTING RAIN LEADERS UNLESS INDICATED OTHERWISE.
- FINISH GRADE ELEVATION (TYP). EDGE OF PAVEMENT/BOTTOM OF CURB UNLESS INDICATED OTHERWISE.
- 8' X 4' ROOF DRAIN STORMWATER FILTER UNIT.
- TRENCH DRAIN INSTALLED AT EDGE OF WALK ALONG FACE OF WALL. USE DUCTILE IRON GRATE SUITABLE FOR H2O LOADING, ADA COMPLIANT, ACO KLASSIKDRAIN OR APPROVED EQUAL LENGTH AND CONFIGURATION AS SHOWN ON DRAWINGS. PROVIDE IN-LINE CATCH BASIN; PROVIDE 2.0' MINIMUM GROUND COVER OVER OUTLET PIPE. SEE DETAIL 64/C506.

STORM STRUCTURE TABLE					
STR#	TYPE	TOP	INVERT IN	INVERT OUT	COMMENTS
355	DI-1	1234.50	1230.35 1232.55 1232.55	1230.25	12" FROM BLDG 6" FROM BLDG 8" FROM BLDG 121.88 LF-15" TO SD#354
354	DI-1	1235.00	1229.00 1230.35 1230.35	1228.83	15" FROM SD#355 4" FROM BLDG 6" FROM BLDG 110.70 LF-15" TO SD#353
121	DI-3C, L=6'	1233.67		1228.92	150.00 LF-12" TO SD#120
120	SDMH	1232.30	1225.50	1225.40	12" FROM SD#121 155.83 LF-12" TO SD#114
114	DI-3B, L=10'	1228.00	1221.35 1223.00	1221.25	12" FROM SD#120 4" FROM SD#114 57.20 LF-15" TO SD#112
112	DI-3A	1227.00	1220.60 1224.00 1223.49	1220.50	15" FROM SD#114 4" FROM UNDERDRAIN 4" FROM SD#112 56.70 LF-15" TO SD#103
103	DI-3C, L=10'	1224.83	1219.83 1221.24 1220.33	1217.33	15" FROM SD#112 6" FROM SD#103 8" FROM SD#104 85.51 LF-15" TO SD#101
101	END SECTION	-	1210.00		15" OUTFALL
104	SDCO	1236.00	1232.00 1232.00	1232.00	6" FROM BLDG 6" FROM BLDG 237.00 LF-8" TO SD#103
206	12" DROP INLET	1232.00		1229.83	130.50 LF-10" TO SD#203A
203A	SDMH	1235.40	1229.19	1229.14	10" FROM SD#208 130.83 LF-10" TO SD#203
203	SDMH	1235.00	1228.50 1230.00 1232.40	1228.50	10" FROM SD#203A 6" FROM WQ STRUCTURES 6" FROM SD#204 65.19 LF-15" TO SD#202
202	DI-1	1233.82	1228.03	1228.03	15" FROM SD#203 EX. 15" TO OUTFALL
205	12" DROP INLET	1234.50		1233.00	37.09 LF-6" TO SD#204
204	12" DROP INLET	1234.21	1232.71	1232.71	6" FROM SD#205 21.33 LF-6" TO SD#203

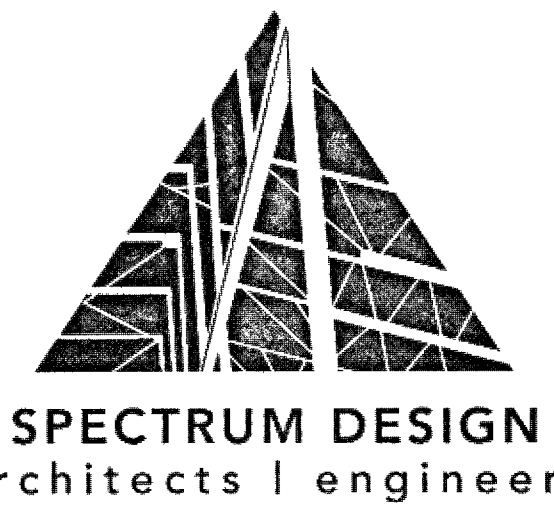
KEYNOTES (CONTD.):

- 6' X 4' STORMWATER FILTER UNIT.
- 6' X 6' STORMWATER FILTER UNIT.
- 6' X 8' STORMWATER FILTER UNIT.
- UNDERDRAIN BELOW PERVIOUS PAVEMENT W/CLEANOUTS, SEE DETAIL 51/C505.
- SLOPE FLUME TOWARD FILTERA THROAT PER FILTERA DETAIL CG5-5 ON C505.
- DUAL DIRECTION CLEANOUT.
- CONNECT 4" UNDERDRAIN TO STORM DRAIN PIPE PER SPECIFICATIONS.

REFER TO SHEET
C105 FOR CHANNEL
IMPROVEMENTS

GENERAL NOTES

- LENGTH OF STORM DRAIN PIPE IS HORIZONTAL DISTANCE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- "SPILL" GUTTER WHERE DRAINAGE PATTERN IS AWAY FROM GUTTER TO PREVENT TRAPPED OR STANDING WATER.
- ALL RAIN LEADERS 12" DIAMETER OR LESS SHALL BE INSTALLED AT 1.0% MINIMUM SLOPE UNLESS NOTED OTHERWISE.
- REFER TO OUTLET PROTECTION SCHEDULE, DETAIL 1/C503.



10 CHURCH AVE SE, PLAZA SUITE 1 ROANOKE, VIRGINIA 24011 540.342.6001

GLENVAR HIGH SCHOOL RENOVATIONS & ADDITIONS

ROANOKE COUNTY

VA DOE PROJECT#:80-61-00-101

SPECTRUM DESIGN PROJECT NO. 13054



DATE: 06 APRIL 2014
DESIGN ARCHITECT: CZV
PROJECT ARCHITECT: MF
CHECKED BY: DATE
DRAWN BY: 05/09/14
REVISIONS: 1
COUNTY REVIEW #1: 2
COUNTY REVIEW #2: 3
COUNTY REVIEW #3: 06/05/14
REVISED: 06/20/14

GRADING PLAN - EAST

C109

MATCHLINE - SEE SHEET C108

1" = 30'-0" 30' 20' 10' 0' 30' 60'