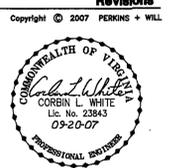




Revisions

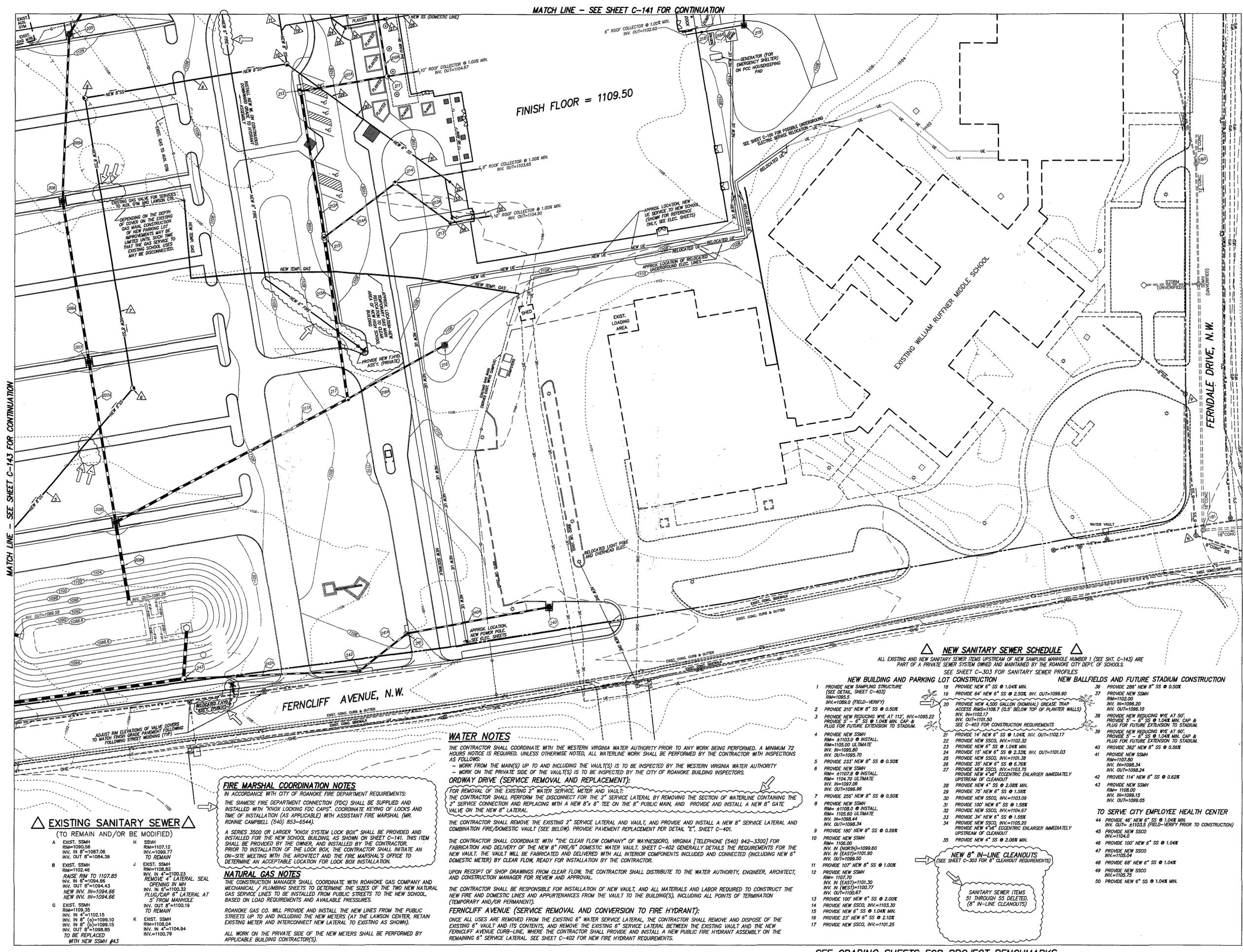
NUMBER	ISSUE	DATE
1	PER 2nd CITY REVIEW	08/20/07
2	PER CITY AND ADDEN. 2	08/13/07



Sheet Information

Date	May 15, 2007
Job Number	800372.000
Scale	1" = 30'
Drawn	C.L. White
Checked	
Approved	

SITE UTILITIES PLAN



MATCH LINE - SEE SHEET C-141 FOR CONTINUATION

FINISH FLOOR = 1109.50

MATCH LINE - SEE SHEET C-143 FOR CONTINUATION

NEW SANITARY SEWER
 ALL EXISTING AND NEW SANITARY SEWER ITEMS UPSTREAM OF NEW SAMPLING MANHOLE NUMBER 1 (SEE SHT. C-143) ARE PART OF A PRIVATE SEWER SYSTEM OWNED AND MAINTAINED BY THE ROANOKE CITY DEPT. OF SCHOOLS.
 SEE SHEET C-303 FOR SANITARY SEWER PROFILES

- | NEW BUILDING AND PARKING LOT CONSTRUCTION | | NEW BALLFIELDS AND FUTURE STADIUM CONSTRUCTION | |
|---|--|--|--|
| 1 | PROVIDE NEW SAMPLING STRUCTURE (SEE DETAIL, SHEET C-403)
RIM=1095.0 | 18 | PROVIDE NEW 6" SS @ 1.04% MIN. |
| 2 | PROVIDE 210' NEW 8" SS @ 0.50% | 19 | PROVIDE 64' NEW 6" SS @ 2.50% INV. OUT=1098.90 |
| 3 | PROVIDE NEW REDUCING WYE AT 112', INV.=1095.22 | 20 | PROVIDE NEW 4500 GALLON (NOMINAL) GREASE TRAP ACCESS RIMS=1108.7 (0.5' BELOW TOP OF PLANTER WALLS)
INV. IN=1102.17
INV. OUT=1101.50
SEE C-403 FOR CONSTRUCTION REQUIREMENTS |
| 4 | PROVIDE NEW SSMH
RIM=1105.00 ULTIMATE
INV. IN=1095.80
INV. OUT=1095.70 | 21 | PROVIDE 14' NEW 6" SS @ 1.04% INV. OUT=1102.17 |
| 5 | PROVIDE 235' NEW 8" SS @ 0.50% | 22 | PROVIDE NEW SSSO, INV.=1102.32 |
| 6 | PROVIDE NEW SSMH
RIM=1107.8 @ INSTALL
RIM=1105.00 ULTIMATE
INV. IN=1095.96
INV. OUT=1095.70 | 23 | PROVIDE NEW 6" SS @ 1.04% MIN. |
| 7 | PROVIDE 295' NEW 8" SS @ 0.50% | 24 | PROVIDE 15' NEW 6" SS @ 2.33% INV. OUT=101.03 |
| 8 | PROVIDE NEW SSMH
RIM=1108.0 @ INSTALL
RIM=1105.00 ULTIMATE
INV. IN=1098.4
INV. OUT=1098.34 | 25 | PROVIDE NEW SSSO, INV.=1101.38 |
| 9 | PROVIDE 180' NEW 8" SS @ 0.59% | 26 | PROVIDE 35' NEW 6" SS @ 6.76% |
| 10 | PROVIDE NEW SSMH
RIM=1106.00
INV. IN (NORTH)=1099.80
INV. IN (WEST)=1101.90
INV. OUT=1099.50 | 27 | PROVIDE NEW SSSO, INV.=1103.75
PROVIDE NEW 4" ECENTRIC ENLARGER IMMEDIATELY UPSTREAM OF CLEANOUT |
| 11 | PROVIDE 107' NEW 8" SS @ 1.00% | 28 | PROVIDE NEW 4" SS @ 2.08% MIN. |
| 12 | PROVIDE NEW SSMH
RIM=1107.70
INV. IN (EAST)=1101.30
INV. IN (WEST)=1100.77
INV. OUT=1100.67 | 29 | PROVIDE 75' NEW 6" SS @ 1.58% |
| 13 | PROVIDE 100' NEW 6" SS @ 2.00% | 30 | PROVIDE NEW SSSO, INV.=1103.09 |
| 14 | PROVIDE NEW SSSO, INV.=1103.30 | 31 | PROVIDE 100' NEW 6" SS @ 1.58% |
| 15 | PROVIDE NEW 6" SS @ 1.04% MIN. | 32 | PROVIDE NEW SSSO, INV.=1104.67 |
| 16 | PROVIDE 23' NEW 6" SS @ 2.10% | 33 | PROVIDE 34' NEW 6" SS @ 1.58% |
| 17 | PROVIDE NEW SSSO, INV.=1101.25 | 34 | PROVIDE NEW 4" ECENTRIC ENLARGER IMMEDIATELY UPSTREAM OF CLEANOUT |
| | | 35 | PROVIDE NEW 4" SS @ 2.08% MIN. |

NEW 8" IN-LINE CLEANOUTS
 (SEE SHEET C-303 FOR 8" CLEANOUT REQUIREMENTS)
 SANITARY SEWER ITEMS 51 THROUGH 55 DELETED.
 (8" IN-LINE CLEANOUTS)

WATER NOTES

THE CONTRACTOR SHALL COORDINATE WITH THE WESTERN VIRGINIA WATER AUTHORITY PRIOR TO ANY WORK BEING PERFORMED. A MINIMUM 72 HOURS NOTICE IS REQUIRED. UNLESS OTHERWISE NOTED, ALL WATERLINE WORK SHALL BE PERFORMED BY THE CONTRACTOR WITH INSPECTIONS AS FOLLOWS:
 - WORK FROM THE MAIN(S) UP TO AND INCLUDING THE VAULT(S) IS TO BE INSPECTED BY THE WESTERN VIRGINIA WATER AUTHORITY
 - WORK ON THE PRIVATE SIDE OF THE VAULT(S) IS TO BE INSPECTED BY THE CITY OF ROANOKE BUILDING INSPECTORS.
ORDWAY DRIVE (SERVICE REMOVAL AND REPLACEMENT):
 FOR REMOVAL OF THE EXISTING 2" WATER SERVICE METER AND VAULT, THE CONTRACTOR SHALL PERFORM THE DISCONNECT FOR THE 2" SERVICE LATERAL BY REMOVING THE SECTION OF WATERLINE CONTAINING THE 2" SERVICE CONNECTION AND REPLACING WITH A NEW 8" x 8" TEE ON THE 8" PUBLIC MAIN, AND PROVIDE AND INSTALL A NEW 8" GATE VALVE ON THE NEW 8" LATERAL.
 THE CONTRACTOR SHALL REMOVE THE EXISTING 2" SERVICE LATERAL AND VAULT, AND PROVIDE AND INSTALL A NEW 8" SERVICE LATERAL AND COMBINATION FIRE/DOMESTIC VAULT (SEE BELOW). PROVIDE PAVEMENT REPLACEMENT PER DETAIL "E", SHEET C-401.
 THE CONTRACTOR SHALL COORDINATE WITH "THE CLEAR FLOW COMPANY" OF WAYNESBORO, VIRGINIA [TELEPHONE (540) 942-3300] FOR FABRICATION AND DELIVERY OF THE NEW 8" FIRE/6" DOMESTIC WATER VAULT. SHEET C-402 GENERALLY DETAILS THE REQUIREMENTS FOR THE NEW VAULT. THE VAULT WILL BE FABRICATED AND DELIVERED WITH ALL INTERIOR COMPONENTS INCLUDING AND CONNECTED (REQUIRED NEW 6" DOMESTIC METER) BY CLEAR FLOW, READY FOR INSTALLATION BY THE CONTRACTOR.
 UPON RECEIPT OF SHOP DRAWINGS FROM CLEAR FLOW, THE CONTRACTOR SHALL DISTRIBUTE TO THE WATER AUTHORITY, ENGINEER, ARCHITECT, AND CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL.
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF NEW VAULT, AND ALL MATERIALS AND LABOR REQUIRED TO CONSTRUCT THE NEW FIRE AND DOMESTIC LINES AND APPURTENANCES FROM THE VAULT TO THE BUILDING(S), INCLUDING ALL POINTS OF TERMINATION (TEMPORARY AND/OR PERMANENT).
FERNCLEFF AVENUE (SERVICE REMOVAL AND CONVERSION TO FIRE HYDRANT):
 ONCE ALL USES ARE REMOVED FROM THE EXISTING 6" WATER SERVICE LATERAL, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING 6" VAULT AND ITS CONTENTS, AND REMOVE THE EXISTING 6" SERVICE LATERAL BETWEEN THE EXISTING VAULT AND THE NEW FERNCLEFF AVENUE CURB-LINE, WHERE THE CONTRACTOR SHALL PROVIDE AND INSTALL A NEW PUBLIC FIRE HYDRANT ASSEMBLY ON THE REMAINING 6" SERVICE LATERAL. SEE SHEET C-402 FOR NEW FIRE HYDRANT REQUIREMENTS.

FIRE MARSHAL COORDINATION NOTES

IN ACCORDANCE WITH CITY OF ROANOKE FIRE DEPARTMENT REQUIREMENTS:
 THE SIEMENS FIRE DEPARTMENT CONNECTION (FDC) SHALL BE SUPPLIED AND INSTALLED WITH "KNOX LOCKING FDC CAPS". COORDINATE KEYING OF LOCKS AND TIME OF INSTALLATION (AS APPLICABLE) WITH ASSISTANT FIRE MARSHAL (MR. RONNIE CAMPBELL (540) 853-8544).
 A SERIES 3500 OR LARGER "KNOX SYSTEM LOCK BOX" SHALL BE PROVIDED AND INSTALLED FOR THE NEW SCHOOL BUILDING, AS SHOWN ON SHEET C-141. THIS ITEM SHALL BE PROVIDED BY THE OWNER, AND INSTALLED BY THE CONTRACTOR. PRIOR TO INSTALLATION OF THE LOCK BOX, THE CONTRACTOR SHALL INITIATE AN ON-SITE MEETING WITH THE ARCHITECT AND THE FIRE MARSHAL'S OFFICE TO DETERMINE AN ACCEPTABLE LOCATION FOR LOCK BOX INSTALLATION.

NATURAL GAS NOTES

THE CONSTRUCTION MANAGER SHALL COORDINATE WITH ROANOKE GAS COMPANY AND MECHANICAL / PLUMBING SHEETS TO DETERMINE THE SIZES OF THE TWO NEW NATURAL GAS SERVICE LINES TO BE INSTALLED FROM PUBLIC STREETS TO THE NEW SCHOOL, BASED ON LOAD REQUIREMENTS AND AVAILABLE PRESSURES.
 ROANOKE GAS CO. WILL PROVIDE AND INSTALL THE NEW LINES FROM THE PUBLIC STREETS UP TO AND INCLUDING THE NEW METERS (AT THE LAWSON CENTER, RETAIN EXISTING METER AND INTERCONNECT NEW LATERAL TO EXISTING AS SHOWN).
 ALL WORK ON THE PRIVATE SIDE OF THE NEW METERS SHALL BE PERFORMED BY APPLICABLE BUILDING CONTRACTOR(S).

EXISTING SANITARY SEWER
 (TO REMAIN AND/OR BE MODIFIED)

- | | | | |
|---|---|---|--|
| A | EXIST. SSMH
RIM=1090.56
INV. IN 8"=1087.06
INV. OUT 8"=1084.39 | H | EXIST. SSMH
RIM=1107.12
INV.=1099.77
TO REMAIN |
| B | EXIST. SSMH
RIM=1022.46
RAISE RIM TO 1107.85
INV. IN 8"=1094.66
INV. OUT 8"=1094.43
NEW INV. IN=1094.66
NEW INV. IN=1094.66 | J | EXIST. SSMH
RIM=1108.92
INV. IN 4"=1100.23
REMOVE "LATERAL SEAL OPENING IN MH
INV. IN 8"=1100.32
PLUG/CAP 6" LATERAL AT 5' FROM MANHOLE |
| C | EXIST. SSMH
RIM=1109.35
INV. IN 4"=1102.15
INV. IN 8"=1099.10
INV. IN 8"=1099.15
INV. OUT 8"=1098.85
TO BE REPLACED WITH NEW SSMH #43 | K | EXIST. SSMH
RIM=1108.04
INV. IN 4"=1104.94
INV.=1100.79 |

SEE GRADING SHEETS FOR PROJECT BENCHMARKS
 ALL NEW UTILITY LINES SHALL BE LOCATED UNDERGROUND

