

WESTERN VIRGINIA WATER AUTHORITY NOTES

GENERAL NOTES:

- 1. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST WVWA DESIGN AND CONSTRUCTION STANDARDS.
- 2. THE CONTRACTOR OR DEVELOPER IS REQUIRED TO NOTIFY THE WESTERN VIRGINIA WATER AUTHORITY IN WRITING AT LEAST THREE (3) DAYS PRIOR TO ANY CONSTRUCTION. PLEASE CONTACT MARK SINK AT 537-3460.
- 3. ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE WESTERN VIRGINIA WATER AUTHORITY.
- 4. FIELD CORRECTIONS SHALL BE APPROVED BY THE WESTERN VIRGINIA WATER AUTHORITY PRIOR TO SUCH CONSTRUCTION.
- 5. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" CLEARANCE VERTICALLY AND 2' MINIMUM HORIZONTALLY FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE AT ALL WATER, SANITARY SEWER CROSSINGS OF ANY OTHER UTILITIES. WHERE THIS CANNOT BE ACHIEVED ADDITIONAL MEASURES IN ACCORDANCE WITH WVWA STANDARDS SHALL BE ENFORCED. CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY UPON DISCOVERY OF SUCH CONDITIONS. ADDITIONAL DESIGN EFFORTS MAY BE REQUIRED.
- 6. ANY EXISTING APPURTENANCES SHOULD BE ADJUSTED TO GRADE AND NEW FRAME AND COVERS INSTALLED WHERE REQUIRED.
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL EXISTING UTILITIES LOCATED AND POTHOLED TO VERIFY LOCATIONS. THIS PLAN REVIEW DOES NOT REMOVE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE ANY EXISTING CONFLICTS FOUND DURING CONSTRUCTION.

SANITARY SEWER NOTES:

- 1. ALL SANITARY SEWER CONNECTIONS TO EXISTING LINES SHALL BE COORDINATED WITH AND PERFORMED BY THE WESTERN VIRGINIA WATER AUTHORITY.
- 2. ALL WATER AND SANITARY SEWER FACILITIES ARE TO BE INSTALLED ACCORDING TO THE WESTERN VIRGINIA WATER AUTHORITY DESIGN AND CONSTRUCTION STANDARDS.

VIRGINIA DEPARTMENT OF TRANSPORTATION NOTES

- 1. AS A PORTION OF THE NEW SANITARY SEWER LIES WITHIN THE PUBLIC RIGHT OF WAY, THE CONTRACTOR IS REQUIRED TO OBTAIN A LAND USE PERMIT AND POST APPLICABLE SURETY FROM VDOT PRIOR TO PERFORMING ANY WORK WITHIN THE PUBLIC RIGHT OF WAY.
- 2. AS OUTLINED HEREIN, THERE IS AN EXISTING SANITARY SEWER STUB THAT EXTENDS WELL PAST THE LIMITS OF TANGLEWOOD LANE PAVEMENT. THEREFORE IT IS NOT ANTICIPATED THAT THE PROJECT WILL REQUIRE REMOVAL / REPLACEMENT OF THE PAVEMENT SECTION. HOWEVER, IN THE EVENT THAT THE EXISTING STUB IS NOT AT A SLOPE THAN WILL ALLOW EXTENSION TO THE LIFT STATION SITE, IT WILL BE REQUIRED TO REMOVE AND RE-LAY THE 48" PIPE STUB AT A FLATTER SLOPE. IN THIS CASE, THE CONTRACTOR SHALL SAW-CUT EXISTING PAVEMENT AS SHOWN ON C-03, AND PROVIDE PAVEMENT REPLACEMENT AS REQUIRED BY VDOT DETAIL LUP-0C, SEE SHEET C-04.

SYMBOLS

EXISTING	NEW	
100.5	100.5	SPOT ELEVATION
100	100	CONTOURS
8"SS	8"SS	SANITARY SEWER LINE
4"W	4"W	WATERLINE
8"SD	8"SD	STORM DRAIN
2"G	2"G	GAS LINE
E	E	OVERHEAD ELECTRIC LINE
T	T	OVERHEAD TELEPHONE LINE
CATV	CATV	OVERHEAD CABLE TELEVISION LINE
UE-UT	UE-UT	UNDERGROUND TEL OR ELEC LINE
14	14	WATER OR GAS METER
F.H.	F.H.	VALVE
C.O.	C.O.	FIRE HYDRANT
		MANHOLE
		CLEANOUT
		DROP INLET (CURB OR GRATE)
		UTILITY POLE, GUY & ANCHOR
		DITCH OR SWALE
		CENTERLINE OR BASELINE
		PROPERTY LINE
		BENCHMARK
		FENCE
		HANDICAPPED SPACE

LEGEND

ABBREVIATIONS

AHFF	ARROW HEAD TOP OF FIRE HYDRANT	MIN	MINIMUM MONUMENT
APPROX	APPROXIMATE	MON	MONUMENT
ASPH	ASPHALT	PWMT	PAVEMENT
BC	BOTTOM OF CURB	R	RADIUS
BIT	BITUMINOUS	R/W	RIGHT OF WAY
BLDG	BUILDING	REQD	REQUIRED
BM	BENCHMARK	SAN	SANITARY
C&G	CURB & GUTTER	SS	SANITARY SEWER
CMP	CORRUGATED METAL PIPE	STA	STATION
CONC	CONCRETE	STD	STANDARD
DI	DROP INLET	TBM	TEMPORARY BENCHMARK
DIA	DIAMETER	TC	TOP OF CURB
ELEC	ELECTRIC	TEL	TELEPHONE
ELEV	ELEVATION	TYP	TYPICAL
EP	EDGE OF PAVEMENT	VDOT	VIRGINIA DEPARTMENT OF TRANSPORTATION
EXIST	EXISTING	VERT	VERTICAL
FF	FINISHED FLOOR		
FG	FINISH GRADE		
HPT	HIGH POINT		
INV	INVERT		
IP	IRON PIN		
MBL	MINIMUM BUILDING LINE		
MH	MANHOLE		

PROJECT DESCRIPTION

UNDER CURRENT CONDITIONS, THE EASTERN-MOST TWO APARTMENT BUILDINGS' SEWERAGE FLOWS TO A PRIVATE LIFT STATION LOCATED NORTHEAST OF THE EASTERN-MOST BUILDING. AS THIS LIFT STATION IS SHOWING SIGNS OF WEARING OUT, THE OWNERS WSH TO REPLACE IT WITH A GRAVITY SANITARY SEWER LINE. THIS PROJECT WILL REMOVE THE EXISTING LIFT STATION AND INSTALL A NEW GRAVITY SEWER FROM THE SITE OF THE LIFT STATION TO AN EXISTING WESTERN VIRGINIA WATER AUTHORITY SEWER MANHOLE LOCATED IN THE WESTERN TERMINUS OF TANGLEWOOD LANE.

UPON PLACEMENT OF THE NEW SEWER SYSTEM, ALL DISTURBED LANDS WILL BE RESTORED TO EXISTING GRADE ELEVATIONS.

ENGINEER'S NOTES

CALDWELL WHITE ASSOCIATES ASSUMES NO RESPONSIBILITY FOR ADEQUACY OF PLANS OR FOR INFORMATION ON PLANS UNTIL SUCH PLANS HAVE BEEN APPROVED BY THE REQUIRED PUBLIC AGENCIES.

ANY WORK COMMENCED ON A PROJECT PRIOR TO PLAN APPROVAL IS AT SOLE RISK OF THE DEVELOPER.

CALDWELL WHITE ASSOCIATES DOES NOT GUARANTEE THE COMPLETION OR QUALITY OF PERFORMANCE OF THE CONTRACTS BY CONTRACTORS OR OTHER THIRD PARTIES.

ALL TRENCHING AND EXCAVATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH OSHA RULES AND REGULATIONS PERTAINING THERETO.

GRADING, COMPACTION AND FINISH SURFACE NOTES

FOLLOWING INSTALLATION OF NEW SANITARY SEWER SYSTEM THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO PRE-CONSTRUCTION GRADE.

ALL DENUDED AREAS SHALL BE PERMANENTLY SEEDED WITHIN SEVEN (7) DAYS OF REACHING FINAL GRADE. TEMPORARY SEEDED SHALL BE APPLIED, WITHIN SEVEN (7) DAYS, TO DENUDED AREAS NOT AT FINAL GRADE BUT THAT WILL REMAIN UNDISTURBED FOR MORE THAN 14 DAYS.

PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED.

A MINIMUM OF 6" OF TOPSOIL SHALL BE PLACED IN ALL AREAS TO RECEIVE PERMANENT SEEDED OR AREAS OF NEW LANDSCAPING.

TRENCH BACKFILL THAT LIES ADJACENT TO THE EXISTING STORMWATER MANAGEMENT DETENTION POND SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR. AS THIS PORTION OF THE PROJECT IS THE BACKSIDE OF THE DETENTION POND DAM EMBANKMENT. AREAS OF TRENCHING THAT LIE BEYOND THE DETENTION AREA SHALL BE COMPACTED TO 80% OF STANDARD PROCTOR.

APPROVED

	NOTES AND LEGEND FOR NEW SANITARY SEWER MAIN TO ALLOW THE REMOVAL OF AN EXISTING PRIVATE SANITARY LIFT STATION FOR THE PINES APARTMENTS SITUATE 4630 ROXBURY LANE CAVE SPRING MAGISTERIAL DISTRICT COUNTY OF ROANOKE, VIRGINIA
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Designed: <u>C.L. White</u> Drawn: <u>C.L. White</u> Checked: <u>C.L. White</u> Date: <u>August 13, 2018</u> Scale: <u>As Shown</u> Tax Parcel: <u>078-07-02-48-00-0000</u> Field Book: <u>CH-14</u> W.O. No.: <u>18-0042</u>	