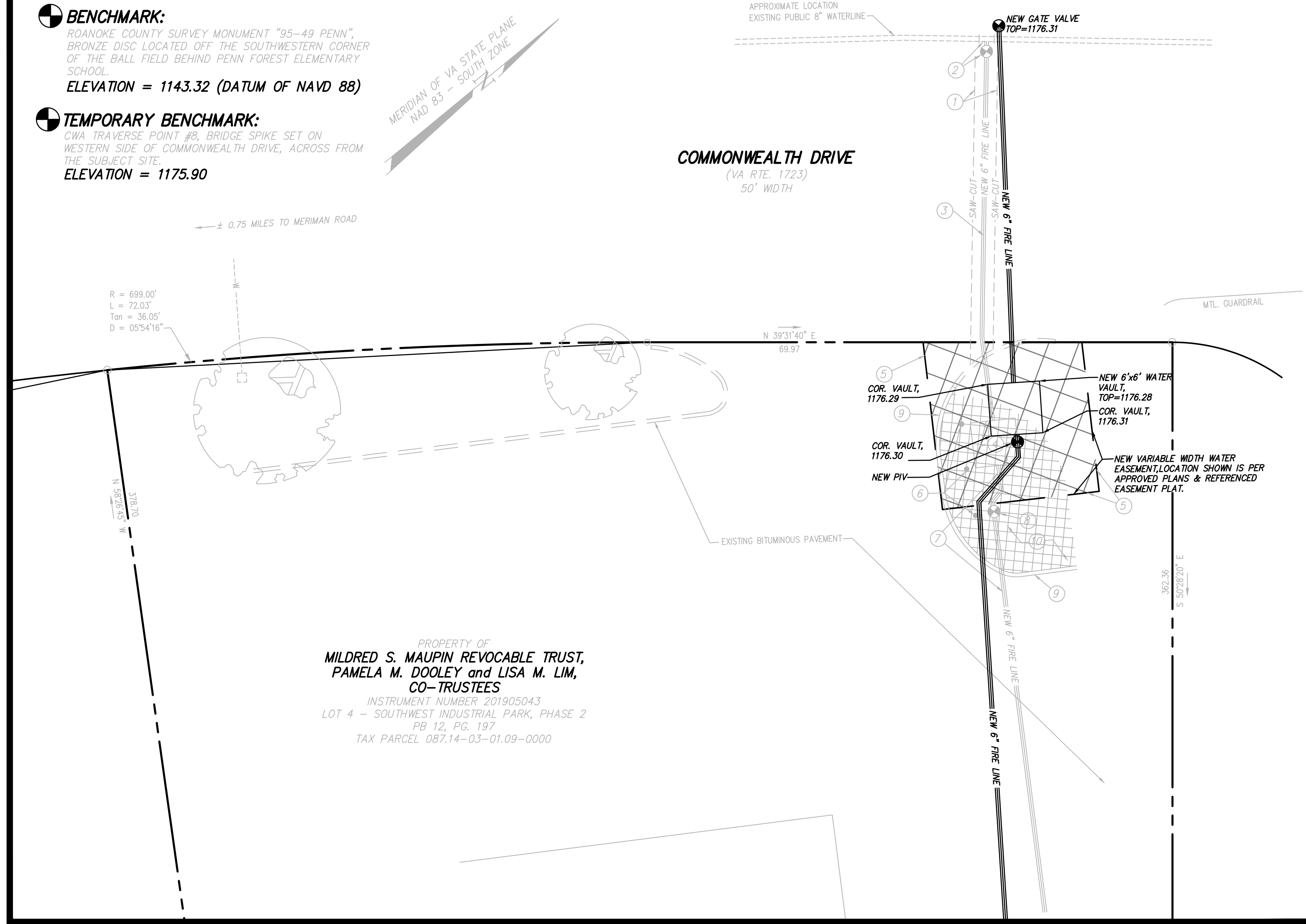


BENCHMARK:
ROANOKE COUNTY SURVEY MONUMENT "95-49 PENN", BRONZE DISC LOCATED OFF THE SOUTHWESTERN CORNER OF THE BALL FIELD BEHIND PENN FOREST ELEMENTARY SCHOOL.
ELEVATION = 1143.32 (DATUM OF NAVD 88)

TEMPORARY BENCHMARK:
CWA TRAVERSE POINT #8, BRIDGE SPIKE SET ON WESTERN SIDE OF COMMONWEALTH DRIVE, ACROSS FROM THE SUBJECT SITE.
ELEVATION = 1175.90



KEY NOTES - NEW FIRE SERVICE

- SAW-CUT EXISTING PAVEMENT FOR NEW INTERCONNECTION TO EXISTING WATER MAIN, SEE PAVEMENT REPLACEMENT DETAIL AND PAVEMENT REPLACEMENT SECTION FOR PAVEMENT REQUIREMENTS.
- PERFORM 6" WET-TAP TO EXISTING 8" PUBLIC MAIN. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR, OTHER THAN THE ACTUAL ACT OF TAPPING THE LINE, WHICH WILL BE PERFORMED BY WVMA PERSONNEL. INSTALL NEW 6" GATE VALVE AND TRAFFIC BEARING VALVE BOX. VALVE SHALL BE CONNECTED TO TAPPING TEE. COORDINATE INSPECTION REQUIREMENTS WITH THE WVMA.
- PROVIDE NEW 8" PUBLIC WATERLINE BETWEEN NEW GATE VALVE AND NEW VAULT.
- PROVIDE NEW 6"x6" TYPE "W-7" FIRE VAULT, SEE DETAIL THIS SHEET. DISREGARD ALL REFERENCES TO DOMESTIC PIPE AND FITTINGS IN THE DETAIL, AS THE PROPOSED VAULT IS FOR FIRE SERVICE ONLY. PLACE TOP OF VAULT LEVEL, AND SUCH THAT AREA AROUND VAULT DRAINS FREELY OVER THE TOP OF THE NEW CURBING.
- NEW 446 SQ. FT. WATER EASEMENT TO BE GRANTED TO THE WESTERN VIRGINIA WATER AUTHORITY.
- PROVIDE THREE (3) NEW PROTECTIVE PIPE BOLLARDS, SEE DETAIL THIS SHEET.
- PROVIDE NEW 6" PRIVATE WATERLINE FROM VAULT TO INTERCONNECT WITH NEW FIRE SUPPRESSION SYSTEM IN THE BUILDING.
- PROVIDE NEW POST INDICATOR VALVE (PIV) ASSEMBLY, AS OUTLINED ON "PLAN AND DETAILS" SHEET BY ROANOKE SPRINKLER.
- INSTALL NEW VDOT STD CG-2 STAND-UP CONCRETE CURBING TO CREATE PROTECTIVE ISLAND AROUND NEW VAULT.
- REMOVE EXISTING PAVEMENT, THOROUGHLY SCARIFY OR REMOVE GRAVEL BASE STONE, PROVIDE, INSTALL AND LIGHTLY COMPACT NEW TOPSOIL TO TOP OF CURB ELEVATIONS, PROVIDE PERMANENT SEEDING WITH TALL TURF GRASS BLEND, STRAW-MULCH AND WATER UNTIL STABILIZED.

ALL KEY NOTES
KEY NOTE 2 ONLY

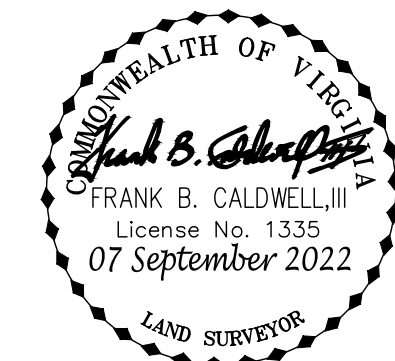
AS-BUILT PLAN FOR NEW FIRE LATERAL AND VAULT DATE: SEPTEMBER 07, 2022 NB: CH-26

ITEMS SHOWN SOLID HEREON REPRESENT AS-BUILT CONDITIONS FOR THE NEW FIRE LATERAL AND VAULT. SHADED ITEMS ARE AS SHOWN ON THE APPROVED CONSTRUCTION PLAN DATED JULY 12, 2022.

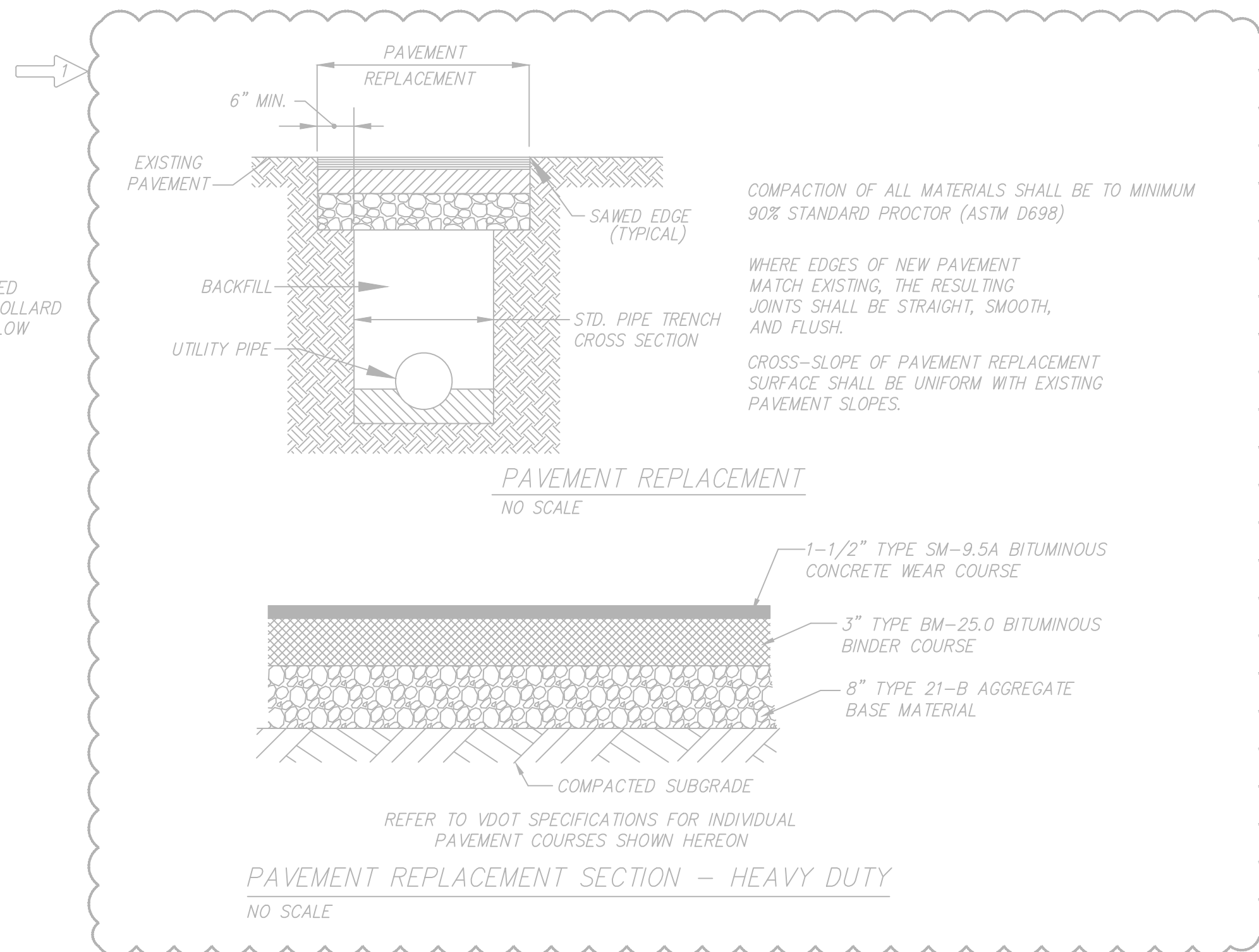
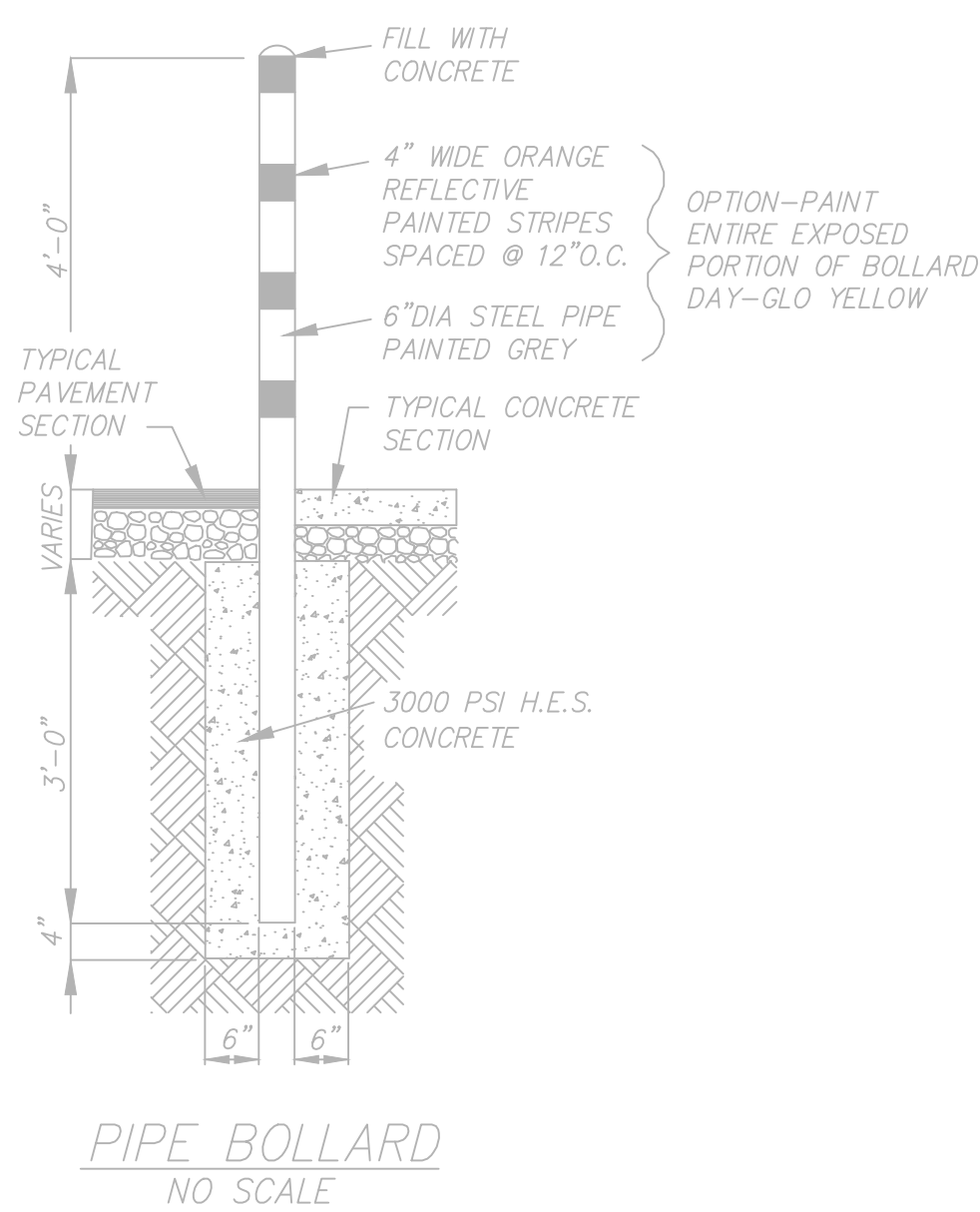
REFERENCE: WATERLINE EASEMENT PLAT FOR MILDRED S. MAUPIN REVOCABLE TRUST, PAMELA M. DOOLEY and LISA M. LIM, CO-TRUSTEES, DATED JUNE 08, 2022. THE ENGINEER IS UNAWARE AS TO WHETHER THIS EASEMENT HAS BEEN RECORDED AS OF THE DATE OF THIS AS-BUILT PLAN.

THIS AS-BUILT SURVEY IS BASED ON A FIELD SURVEY OF VISIBLE WATERLINE IMPROVEMENTS AND AS-BUILT SKETCHES FROM THE CONTRACTOR FOR UNDERGROUND IMPROVEMENTS. THE FIELD SURVEY WAS PERFORMED BY CWA ON SEPTEMBER 07, 2022.

THIS AS-BUILT SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF FRANK B. CALDWELL III, LS, FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THE ORIGINAL DATA WAS OBTAINED ON SEPTEMBER 07, 2022, AND THIS DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

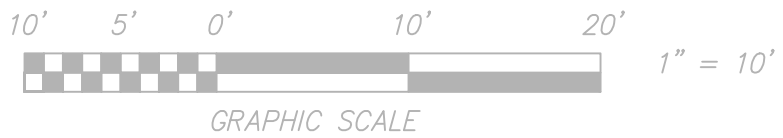


	EXISTING	NEW	
APPROX BC	100.5	100.5	SPOT ELEVATION
BIT	----- 100 -----	----- 100 -----	CONTOURS
BLDG	== 8"SS ==	== 8"SS ==	SANITARY SEWER LINE
BLK	--- 4"W ---	--- 4"W ---	WATERLINE
BM	== 8"SD ==	== 8"SD ==	STORM DRAIN
CMP	--- 2"G ---	--- 2"G ---	GAS LINE
CONC	--- E ---	--- E ---	OVERHEAD ELECTRIC LINE
EP	--- T ---	--- T ---	OVERHEAD TELEPHONE LINE
EXIST	--- CATV ---	--- CATV ---	OVERHEAD CABLE TELEVISION LINE
FDN	--- UE ---	--- UE ---	UNDERGROUND TEL OR ELEC LINE
FF	--- UT ---	--- UT ---	WATER OR GAS METER
FG			VALVE
INV			FIRE HYDRANT
IPF			MANHOLE
MIN			CLEANOUT
PVMT			DROP INLET (CURB OR GRATE)
REQD			UTILITY POLE, GUY & ANCHOR
SAN			PROPERTY LINE
SD			SURVEY TRAVERSE POINT
SS			BENCHMARK
SSE			
STD			
TBM			
TC			
TP			
VDOT			



REVISION NUMBER 1:
ENTAILS INSTALLING A NEW CONNECTION TO MAIN, AND PAVEMENT CUTTING AND RE-PAVING, AS THE WATERLINE STUB MARKED IN THE FIELD BY THE WVMA DOES NOT EXIST.
WITH THE NEW LATERAL LOCATION BEING FLEXIBLE, WE CAN NOW ENTER AND EXIT THE NEW FIRE VAULT THROUGH THE FRONT / REAR RESPECTIVELY, RATHER THAN INSTALLING NUMEROUS BENDS TO ALIGN WITH THE LOCATION OF THE MARKED WATERLINE STUB-OUT.

ALL NEW WATERLINE MATERIALS, FABRICATION, AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE WESTERN VIRGINIA REGIONAL DESIGN AND CONSTRUCTION STANDARDS.



	<p>LAYOUT PLAN FOR NEW FIRE SERVICE LATERAL AND VAULT</p> <p>TO BE CONSTRUCTED FOR EXISTING BUILDING SITUATE 6545 COMMONWEALTH DRIVE CAVE SPRING MAGISTERIAL DISTRICT COUNTY OF ROANOKE, VIRGINIA</p>
	<p>CWA CALDWELL WHITE ASSOCIATES</p> <p>ENGINEERS / SURVEYORS / PLANNERS</p> <p>4203 MELROSE AVENUE P.O. BOX 6260 ROANOKE, VIRGINIA 24017-0260 (540) 366-3400 FAX: (540) 366-8702</p>
<p>Designed: C.L. White Drawn: C.L. Hurd / C.L. White Checked: Date: June 02, 2022 Scale: 1" = 10' Tax Parcel: 08714-03-01.09-0000 Field Book: CH-26 W.O. No.: 22-0033</p>	

REVISED JULY 12, 2022 PER WVMA REVIEW; CHANGE FROM CUT-IN TEE TO WET-TAP - C.L. White
REVISED JULY 11, 2022 TO REFLECT NEW CONNECTION TO MAIN INSTEAD OF PREVIOUSLY ASSUMED EXISTING STUB-OUT - C.L. White

Tap
Valve

Water Main

bin pipe
62 Feet

Commonwealth Dr

grass

45%

grass

pavement

90%

bin pipe
92 Feet

44 Feet

6545
Commonwealth Dr

Plumbing and More with JB
Jerry Bush