

# STORM STRUCTURE SCHEDULE

- 1 NEW DROP INLET, VDOT STD DI-7  
TOP 1258.0  
INV (OUT) 1254.4
- 2 8" NEW 24" N-12 HDPE PIPE @ 1.07%
- 3 NEW DROP INLET, VDOT STD DI-7  
TOP 1258.0  
INV (OUT) 1252.5
- 4 10" 238" NEW 24" N-12 HDPE PIPE @ 7.50%
- 5 NEW CURB INLET, VDOT STD DI-3C, L=8'  
TOP 1263.50  
INV (OUT) 1258.8
- 6 125" NEW 18" HP STORM PIPE @ 1.36%
- 7 NEW CURB INLET, VDOT STD DI-3A  
TOP 1264.10  
INV (IN) 1257.1  
INV (OUT) 1257.0
- 8 121" NEW 18" N-12 HDPE PIPE @ 1.49%
- 9 NEW CURB INLET, VDOT STD DI-3A  
TOP 1263.20  
INV (IN) 1255.2  
INV (OUT) 1255.1
- 10 70" NEW 18" N-12 HDPE PIPE @ 23%
- 11 NEW CURB INLET, VDOT STD DI-3B, L=6'  
TOP 1240.2  
INV (OUT) 1235.5
- 12 60" NEW 15" HP STORM PIPE @ 1.33%
- 13 CONNECT NEW 12" PIPE TO EXISTING INLET @ INV. 1235.10  
PLUG EXISTING OUTLET PIPE WITH CONCRETE & ABANDON
- 14 21" NEW 12" N-12 HDPE PIPE @ 1.90%
- 15 NEW MANHOLE, VDOT STD MH-1  
TOP 1245.0  
INV (IN) 1234.7 (FROM #6)  
INV (IN) 1234.7 (FROM #7)  
INV (OUT) 1234.6
- 16 226" NEW 18" N-12 HDPE PIPE @ 1.02%
- 17 NEW DROP INLET, VDOT STD DI-7  
TOP 1245.0  
INV (IN) 1239.0 (FROM #5)  
INV (IN) 1239.0 (FROM #8)  
INV (OUT) 1232.2
- 18 42" NEW 18" HP STORM PIPE @ 1.43%
- 19 NEW DROP INLET, VDOT STD DI-7  
WY 60" DI., BASE UNIT  
TOP 1239.0  
INV (IN) 1234.5 (FROM #2)  
INV (IN) 1234.6 (FROM #9)  
INV (OUT) 1231.5
- 20 131" NEW 24" N-12 HDPE PIPE @ 14.81%
- 21 NEW DROP INLET, VDOT STD DI-7  
TOP 1216.5  
INV (IN) 1212.10  
INV (OUT) 1212.00
- 22 58" NEW 24" N-12 HDPE PIPE @ 13.79%

- 23 NEW MANHOLE, VDOT STD MH-1  
WITH 60" DIA. BASE UNIT  
TOP 1210.50  
INV (IN) 1204.00 (FROM #11)  
INV (OUT) 1204.00 (TO #13)  
INV (OUT) 12" TO BARRACUDA 1204.00  
INSTALL A DIVERSION WEIR ACROSS THE  
DIAMETER OF THE MANHOLE. TO FORCE  
WATER TO THE BARRACUDA STRUCTURE  
TOP OF WEIR AT 1205.00
- 24 BARRACUDA STRUCTURE, TYPE 54  
48" MANHOLE WITH 30" FRAME & COVER  
TOP 1210.50  
INVERT (IN) 12" PIPE 1204.00 (FROM #12)  
INVERT (OUT) 12" PIPE 1204.00 (TO #13)  
SUMP INVERT 1196.92
- 25 42" NEW 24" N-12 HDPE PIPE @ 38.81%
- 26 NEW MANHOLE, VDOT STD MH-1  
WITH 60" DIA. BASE UNIT  
TOP 1195.0  
INV (IN) 1187.7  
INV (OUT) 1187.6
- 27 89" NEW 36" RCP @ 0.67%
- 28 NEW ENDWALL, VDOT STD EW-1 WITH OUTLET  
PROTECTION  
INV (OUT) OF 36" PIPE 1187.00
- 29 NEW 48" DIA. CONCRETE BASE UNIT AS STANDPIPE WITH  
DOMED TRASH RACK  
TOP OF STRUCTURE 1194.40  
INV (OUT) 1186.50  
CUT AN 3.5" DIA. HOLE IN BASE UNIT @ INV 1186.50  
CUT (2 ea.) 24" LONG x 10" WIDE HOLES IN THE  
BASE UNIT @ INV 1192.20
- 30 26" NEW 15" N-12 HDPE PIPE @ 0.27%
- 31 KRAKEN STRUCTURE - MODEL KF-4-B-66  
TOP OF 30" RISER 1197.00  
TOP OF 20" RISER 1197.00  
INV (IN) FROM #15 1186.43  
INV (OUT) TO #17 1185.43
- 32 263" NEW 15" N-12 HDPE PIPE @ 0.35%
- 33 INSTALL A 45" FABRICATED BEND IN THE PIPE TO DIRECT IT'S  
POINT OF DISCHARGE TO BE MORE PERPENDICULAR THAN  
PARALLEL TO THE CREEK. THE DISCHARGE POINT IS TO BE AT  
THE CREEK'S HIGH WATER MARK. PROVIDE OUTLET  
PROTECTION.  
INV. OUT OF 15" PIPE @ 1184.5

## NOTES:

HOPE PIPE TO BE HIGH DENSITY POLYETHYLENE, DUAL WALL,  
N-12, OR HP STORM PIPE MANUFACTURED BY ADS OR  
ENGINEERED APPROVED EQUIVALENT.

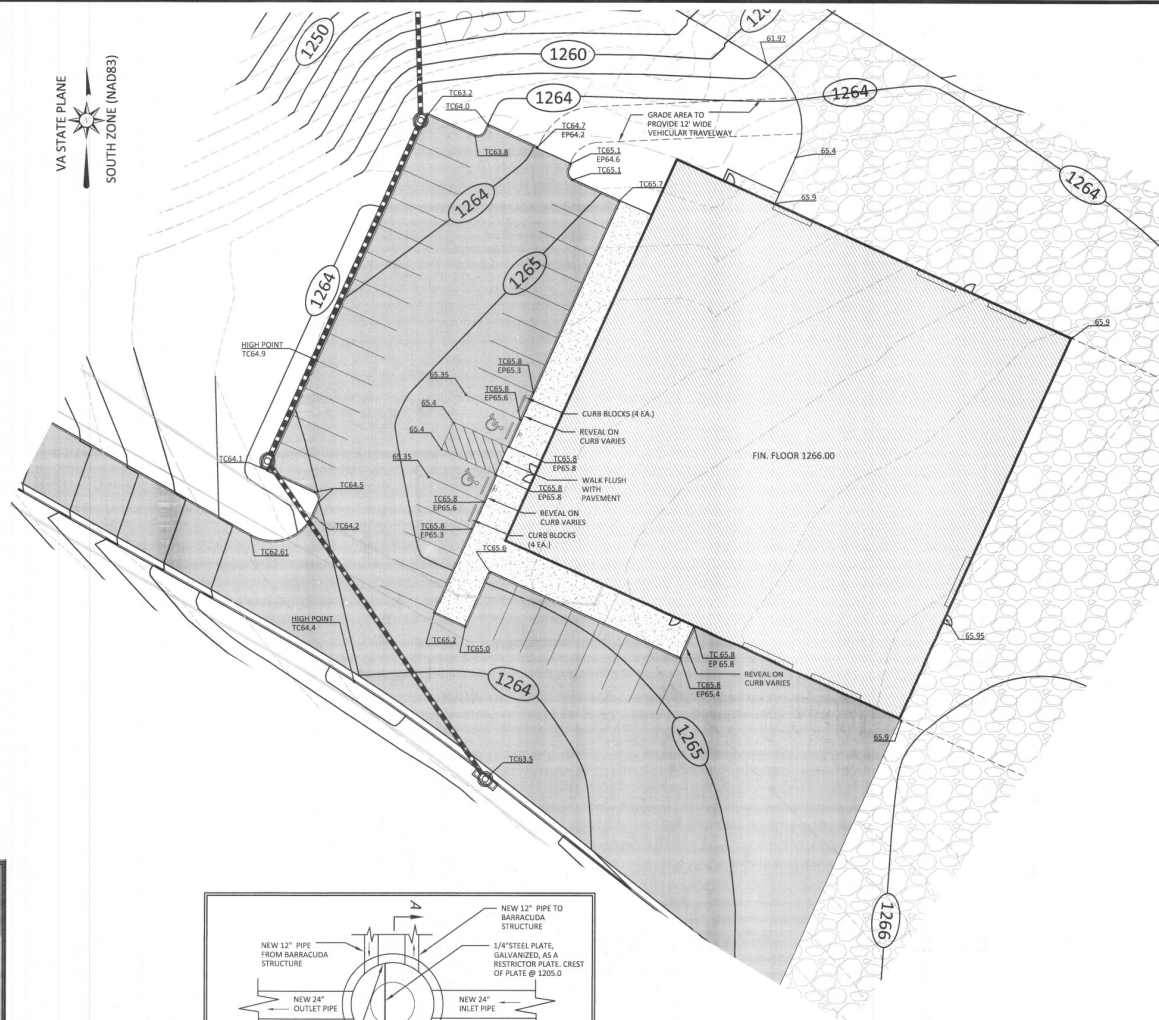
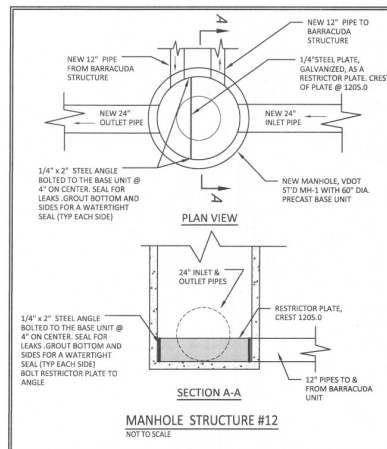
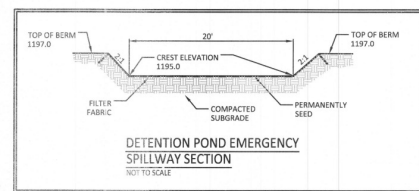
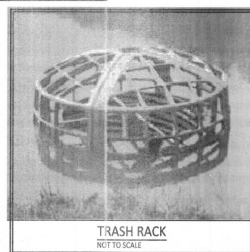
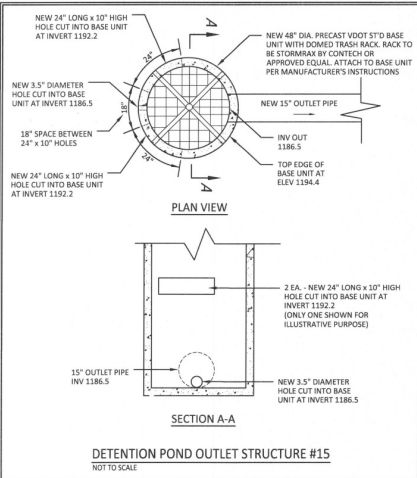
## ROOF LEADER NOTES:

ROOF LEADER PIPING NOT SHOWN. CONTRACTOR TO CONNECT  
DOWNSPOUTS TO ROOF LEADERS AND DISCHARGE TO CLOSEST  
INLET OR TO GRADE AS DIRECTED BY THE OWNER.

ROOF LEADER PIPING TO BE 6" SDR35 PVC. MINIMUM SLOPE TO  
BE 1% (#/FT). MINIMUM DEPTH TO BE 24"

ROOF LEADERS SHALL CONNECT TO DOWNSPOUTS WITH  
DOWNSPOUT ADAPTERS. ALL ROOF LEADER CONNECTIONS TO  
BE MADE WITH FABRICATED WYES OR BENDS.

CLEANOUTS TO BE CUT OFF FLUSH WITH FINAL GRADE.  
CLEANOUTS IN PAVEMENT TO BE EQUIPPED WITH A TRAFFIC  
BEARING CLEANOUT BOX.  
CLEANOUT PLUGS TO BE SCREW-IN BRASS WITH A  
COUNTERSUNK SQUARE HEAD.



DATE: June 26, 2020

| REVISIONS | DATE | BY | CHKD |
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| 1         |      |    |      |
| 2         |      |    |      |
| 3         |      |    |      |
| 4         |      |    |      |
| 5         |      |    |      |

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**JAMES RIVER EQUIPMENT**  
NEW FACILITY  
74 TAYLORS ROAD BOONES MILL, VA

DRAWN BY: JSS  
CHECKED BY: JSS

**ENLARGED GRADING PLAN & STORM STRUCTURE SCHEDULE**

(SWM 3)



COMMISSION No.  
19019  
SHEET  
C-10