Appendix B
Survey Data

Chesapeake VIRGINIA

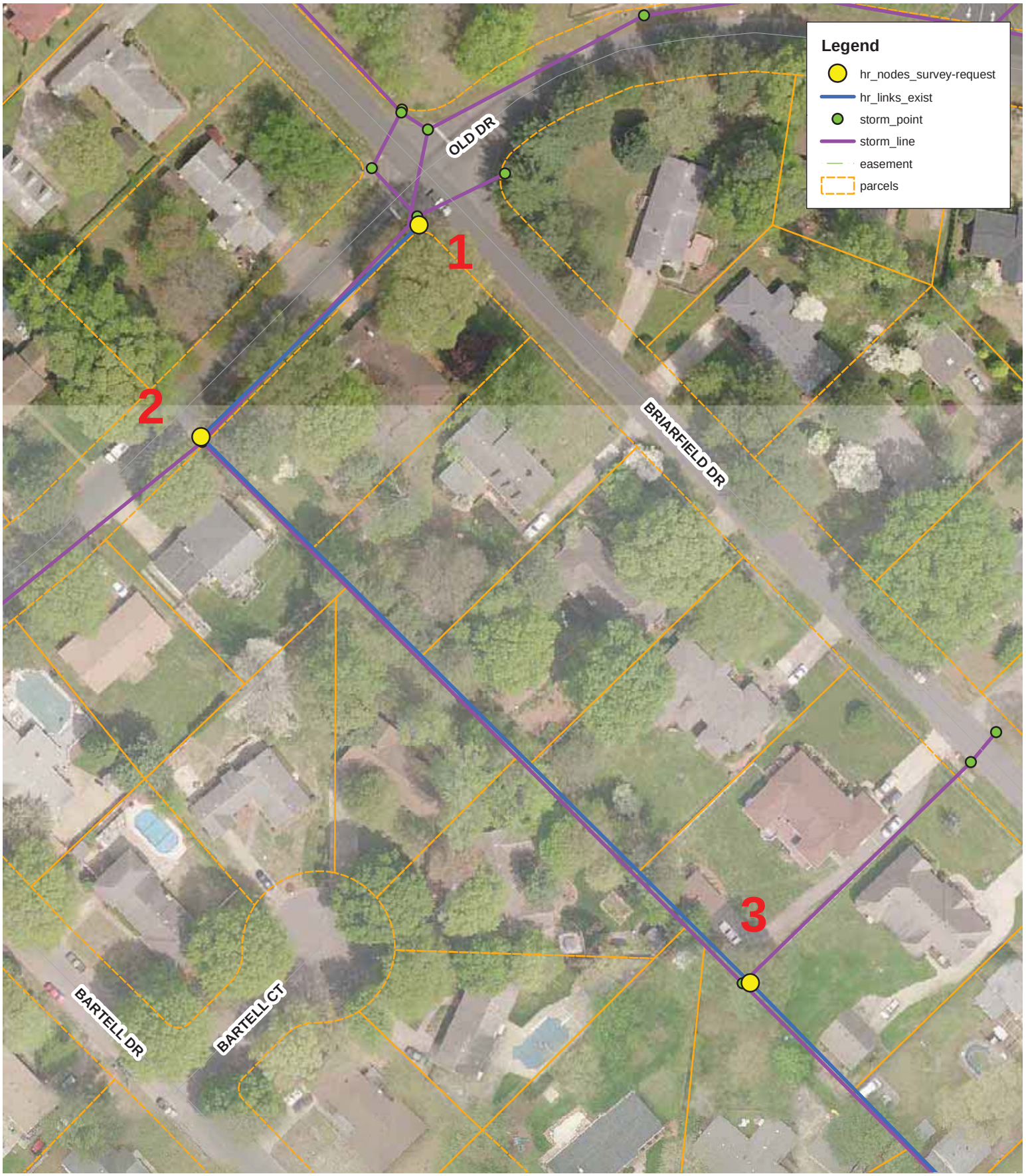
Department of Public Works

URS

Aerial Imagery @ 2008 Commonwealth of Virginia

See GIS for Complete Details

Figure B1. Survey Locations



0 20 40 80 120 160 Feet

Aerial Imagery @ 2008 Commonwealth of Virginia

See GIS for Complete Details

Survey Locations 1, 2, & 3

Project: Horse Run Watershed MDPU

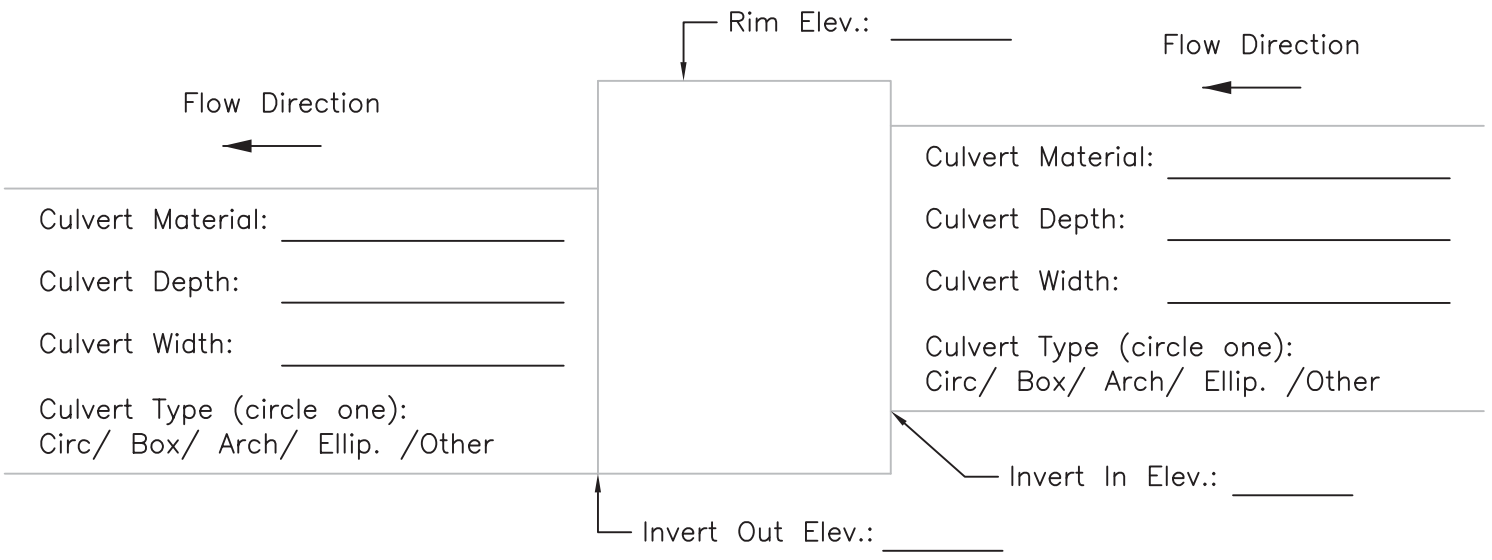
Date: _____

Node/Point #: 1042

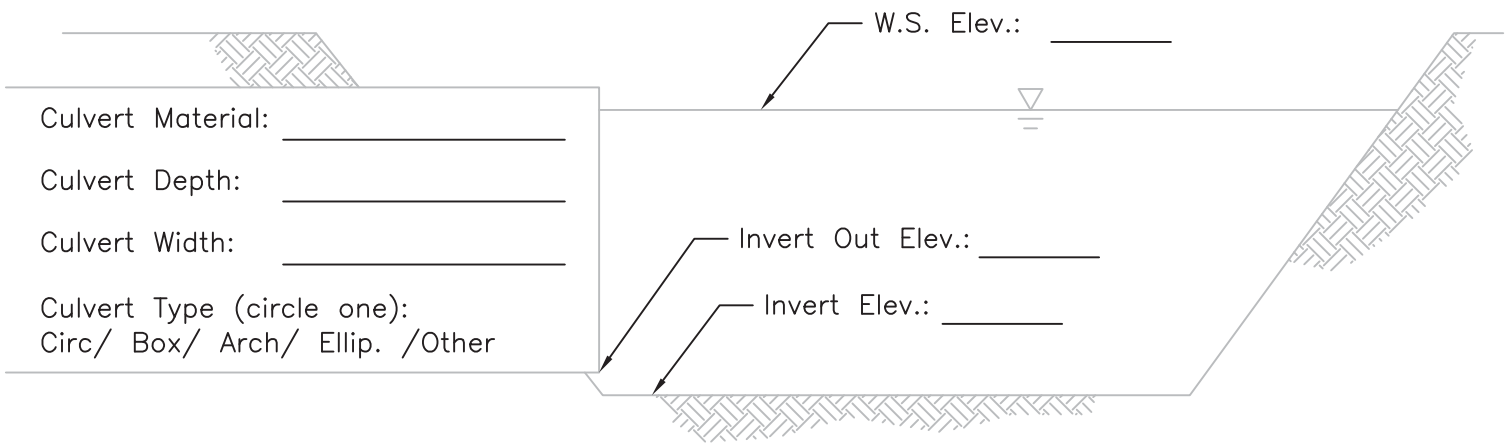
Surveyed By: _____

Location/Nearest Intersection: 1

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

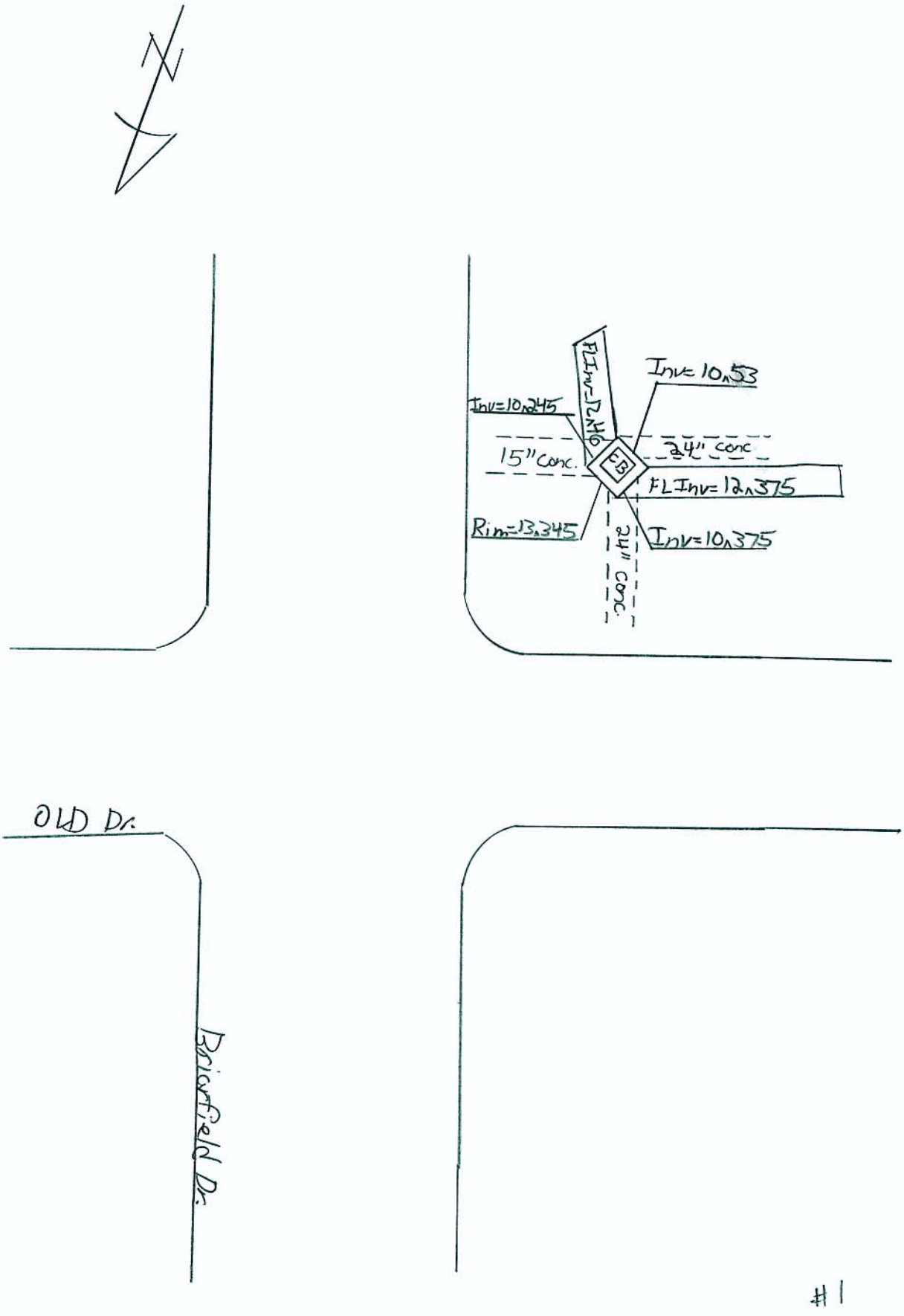


CULVERT JUNCTION/INLET CULVERT



OUTLET CULVERT LAKE

Additional description of the point location: _____


N
Inv=10.53
Inv=10.245
FL Inv=12.46
24" conc.
15" conc.
FL Inv=12.375
Rim=13.345
Inv=10.375
24" conc.
OLD Dr.
Briarfield Dr.
#1

Project: Horse Run Watershed MDPU

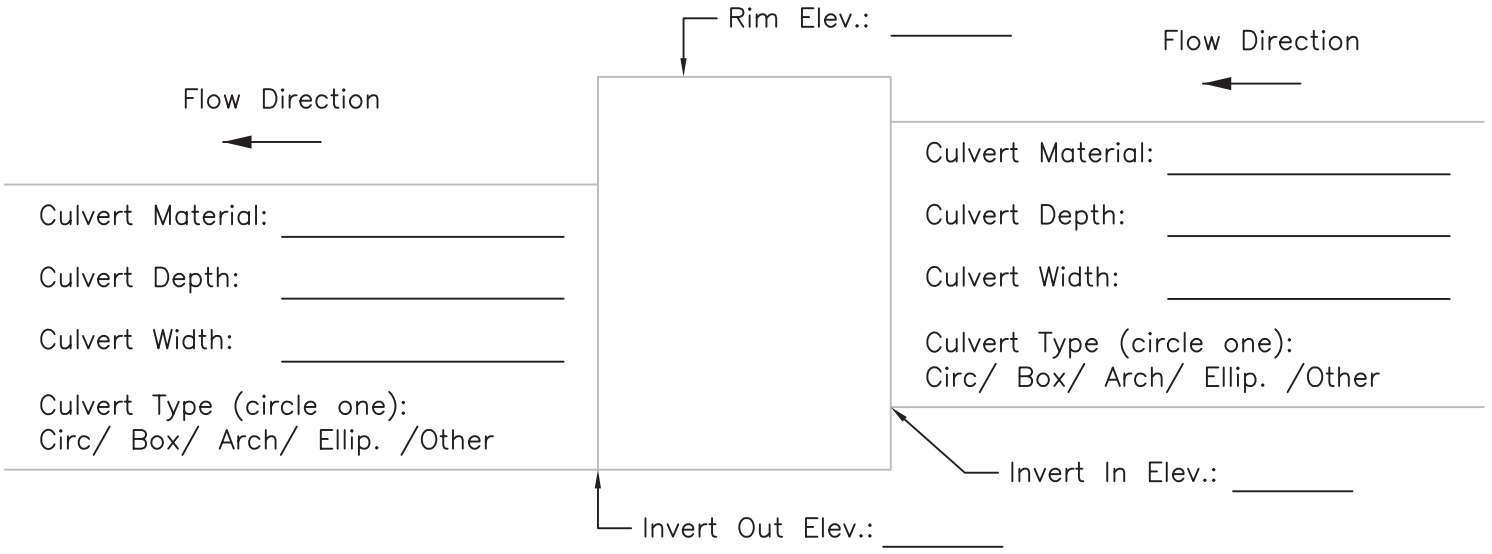
Date: _____

Node/Point #: 1044

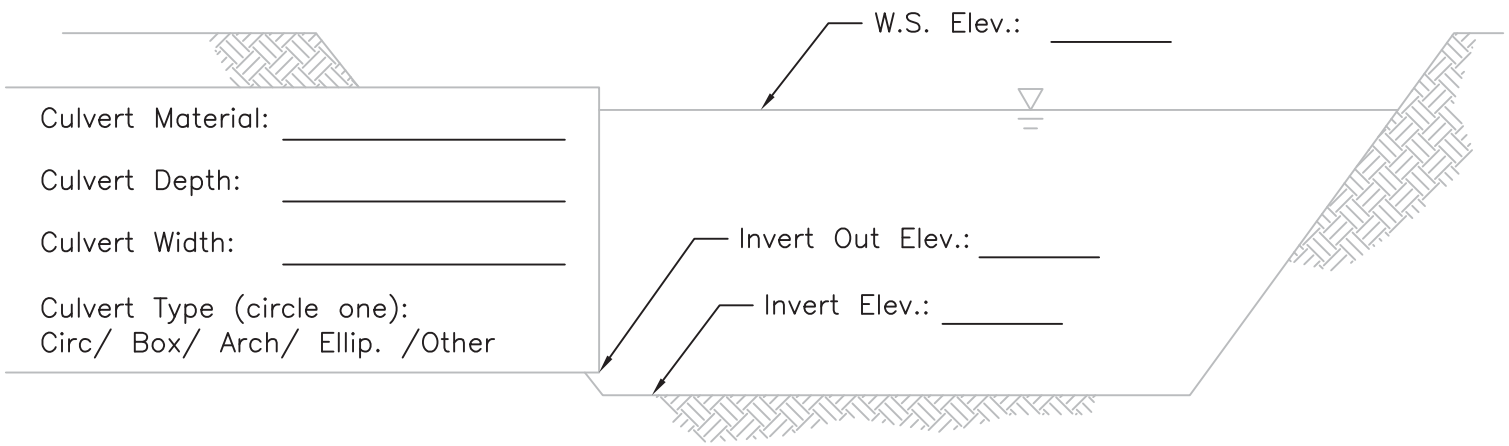
Surveyed By: _____

Location/Nearest Intersection: 2

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

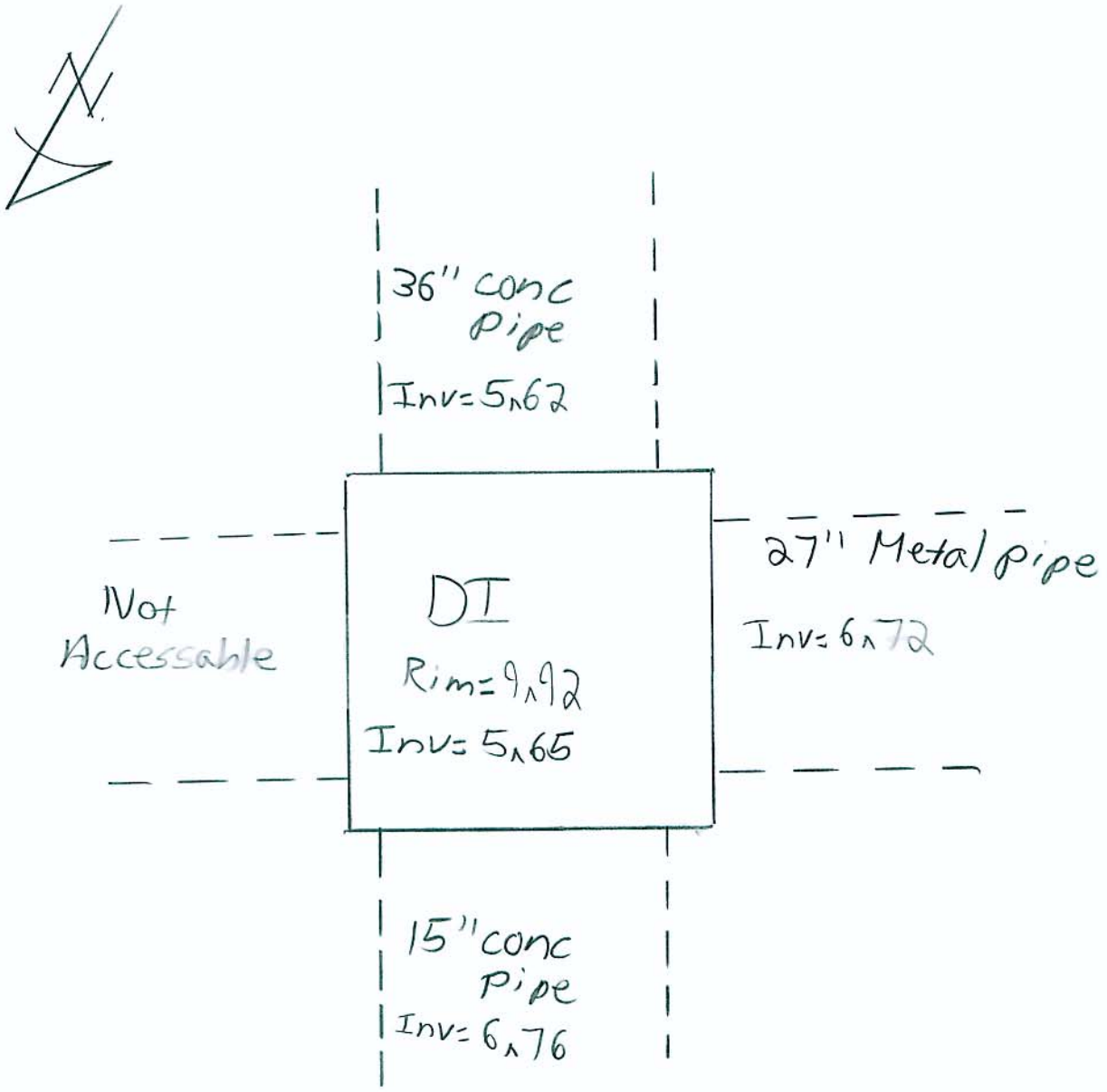


CULVERT JUNCTION/INLET CULVERT



OUTLET CULVERT LAKE

Additional description of the point location: _____


N
36" conc pipe
Inv=5.62
DI
Rim=9.92
Inv=5.65
Not Accessable
27" Metal pipe
Inv=6.72
15" conc pipe
Inv=6.76
OLD Dr.
#2

Project: Horse Run Watershed MDPU

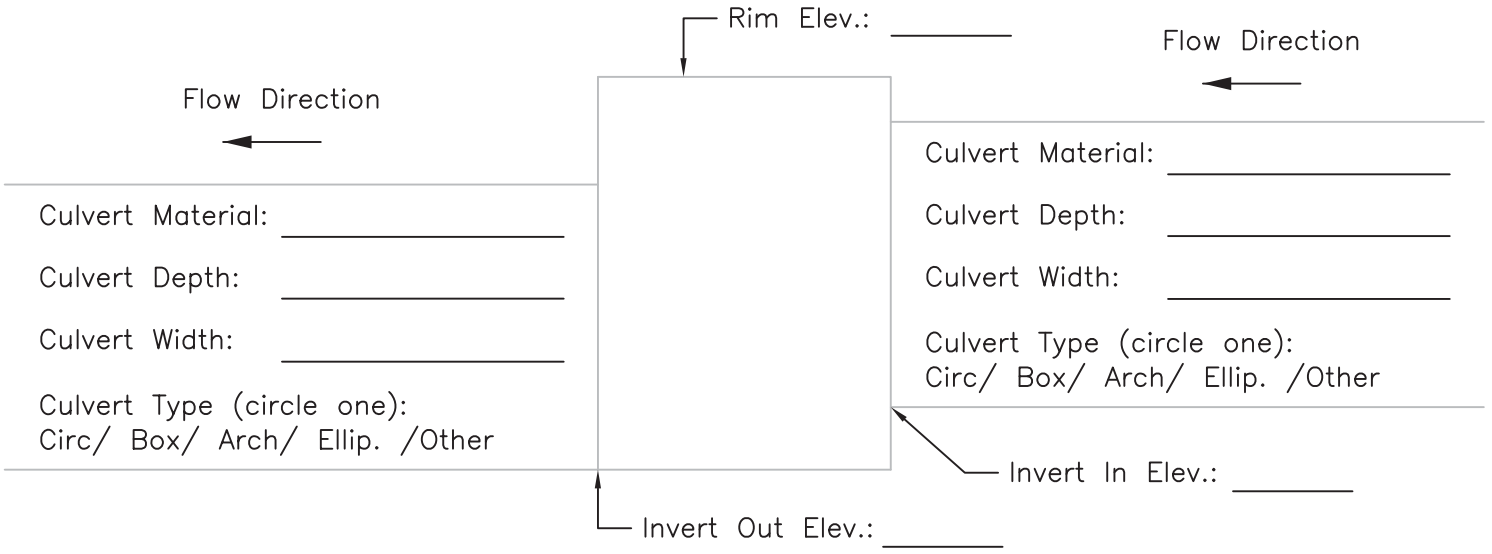
Date: _____

Node/Point #: 1046

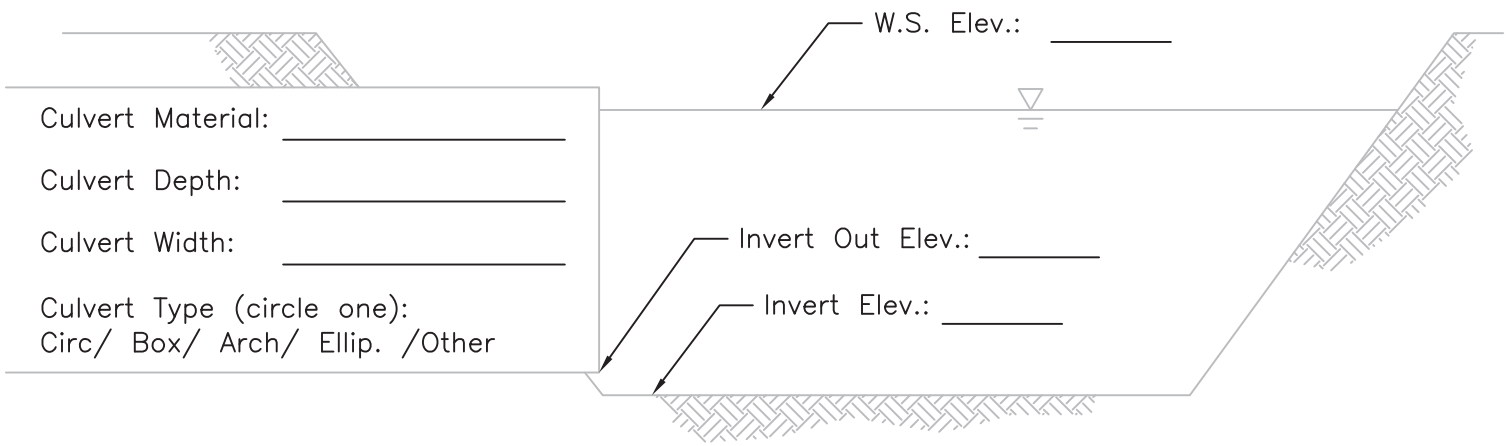
Surveyed By: _____

Location/Nearest Intersection: 3

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

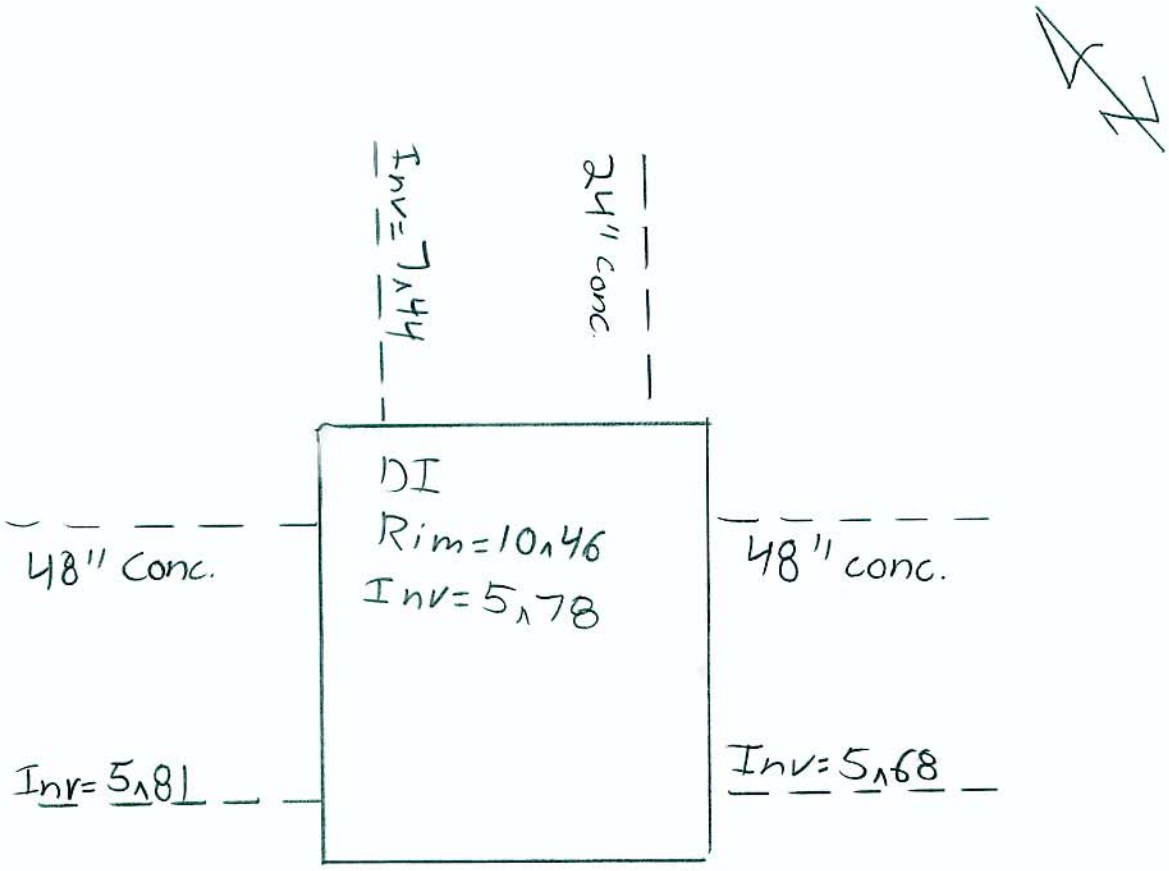


CULVERT JUNCTION/INLET CULVERT

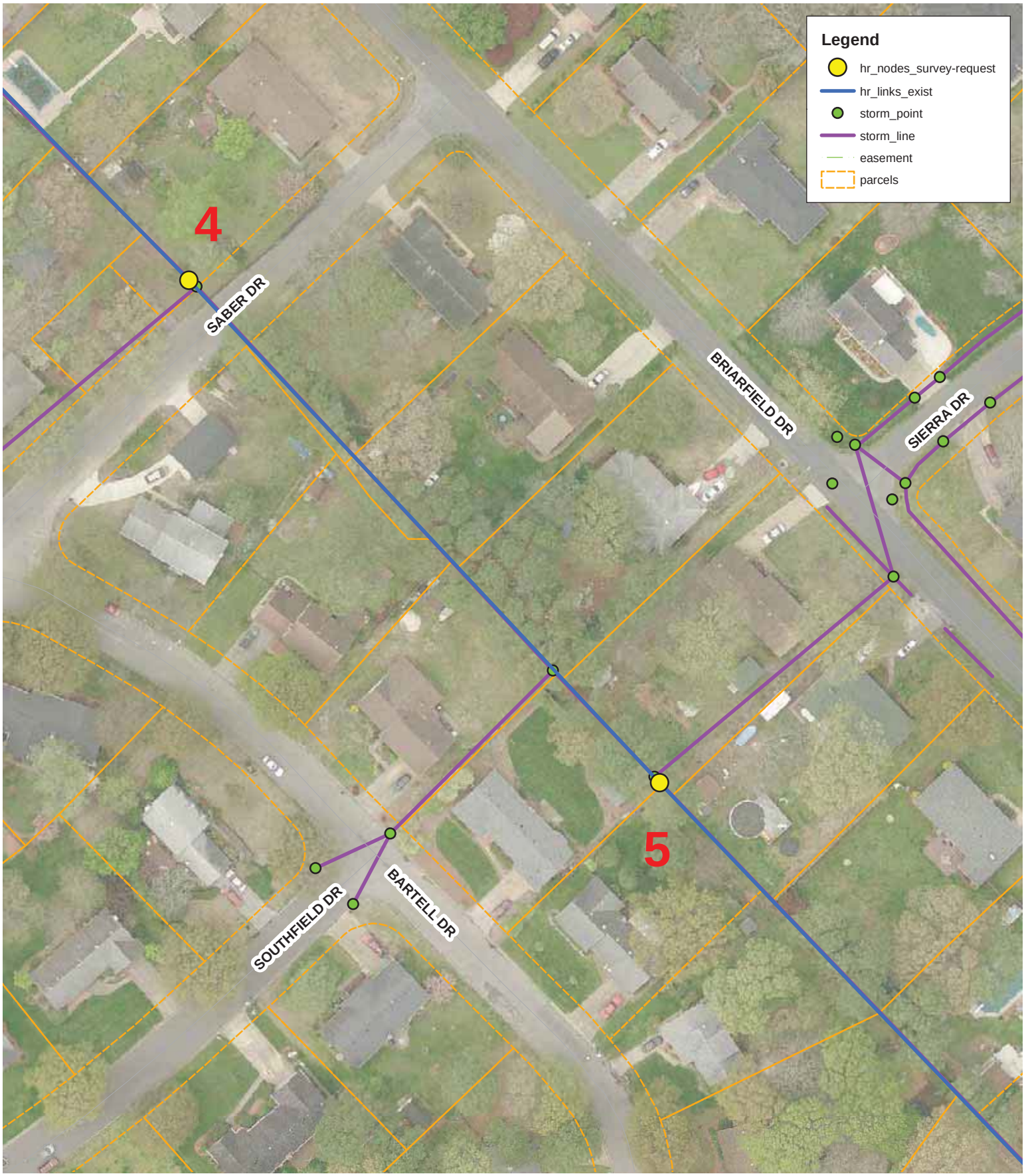


OUTLET CULVERT LAKE

Additional description of the point location: _____


Inv=7.44
24" conc.
DI
Rim=10.46
Inv=5.78
48" Conc.
48" conc.
Inv=5.81
Inv=5.68

#3



0 20 40 80 120 160
Feet

Aerial Imagery @ 2008 Commonwealth of Virginia

See GIS for Complete Details

Survey Locations 4 & 5

Project: Horse Run Watershed MDPU

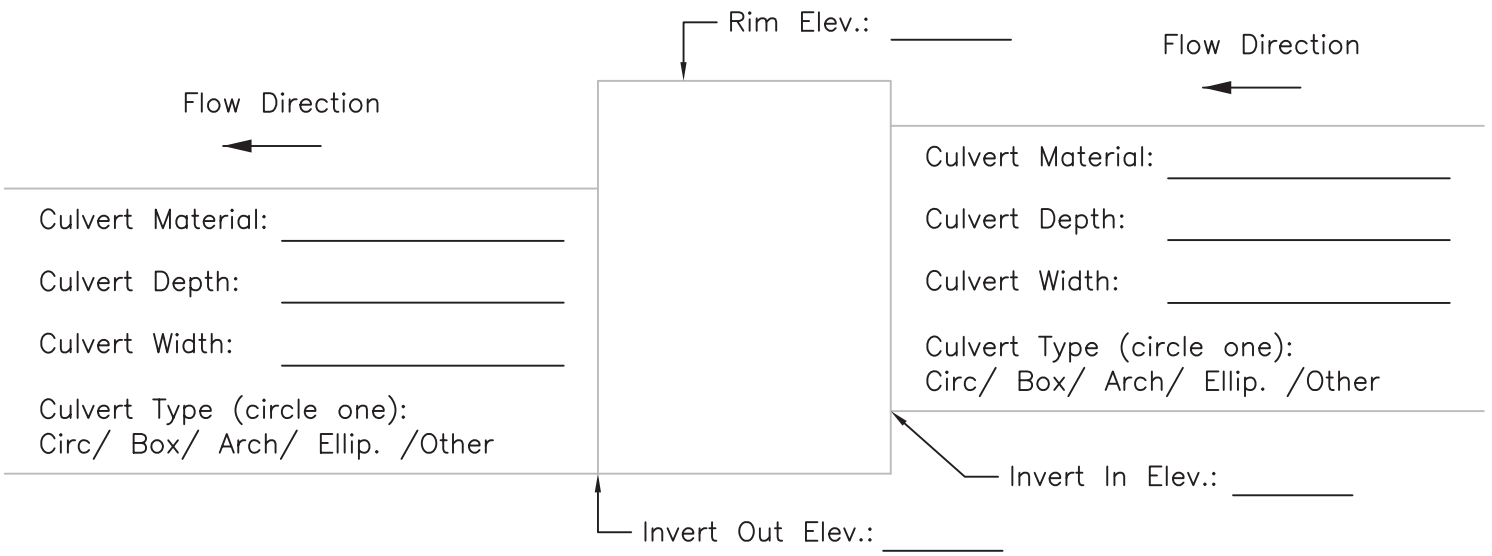
Date: _____

Node/Point #: 1048

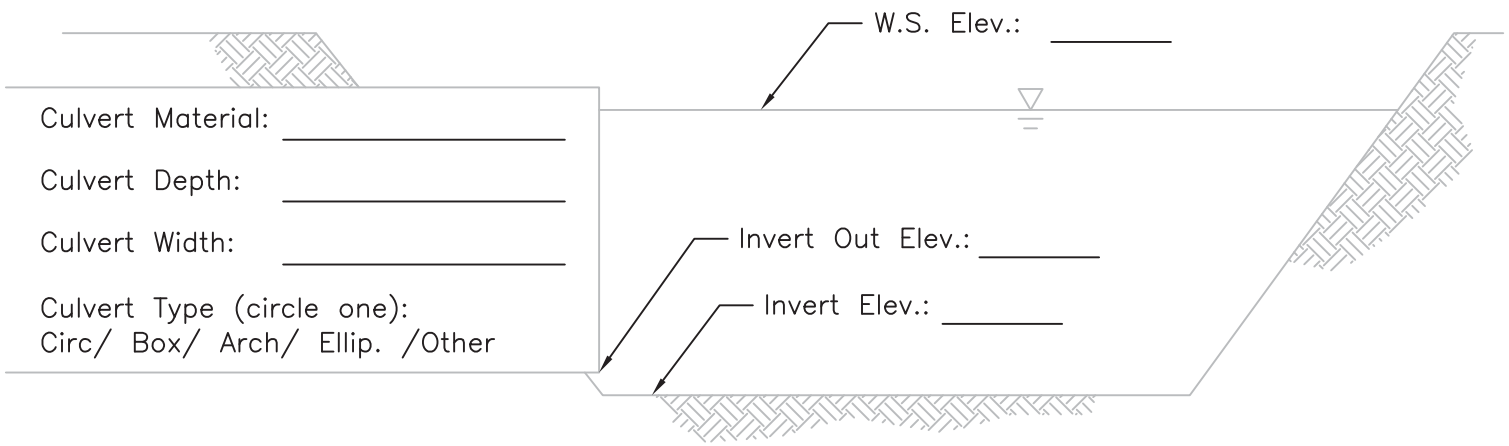
Surveyed By: _____

Location/Nearest Intersection: 4

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

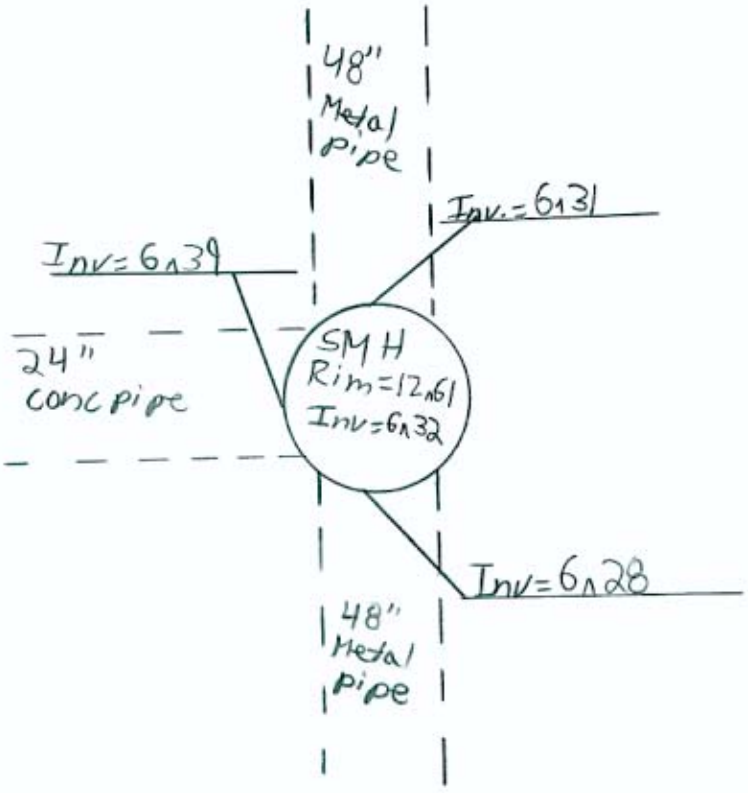


CULVERT JUNCTION/INLET CULVERT



OUTLET CULVERT LAKE

Additional description of the point location: _____


48"
Metal
pipe
Inv.=6.31
Inv=6.39
24"
conc pipe
SM H
Rim=12.61
Inv=6.32
Inv=6.28
48"
Metal
pipe

Sabre Dr.

#4

Project: Horse Run Watershed MDPU

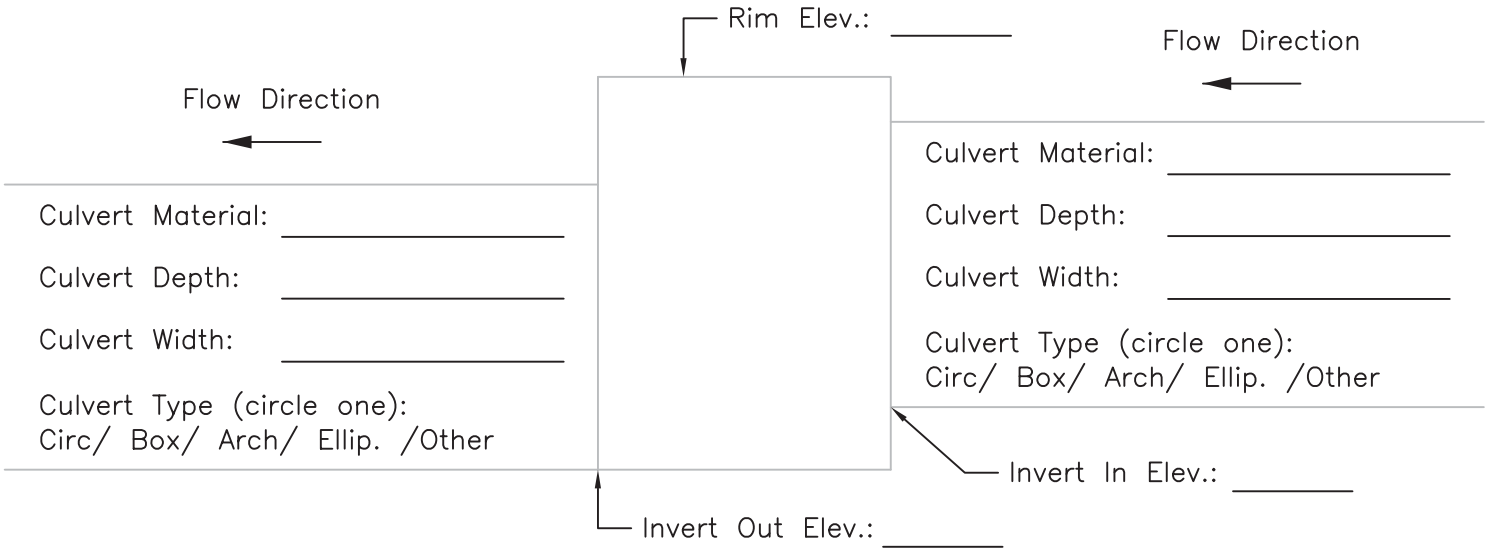
Date: _____

Node/Point #: 1052

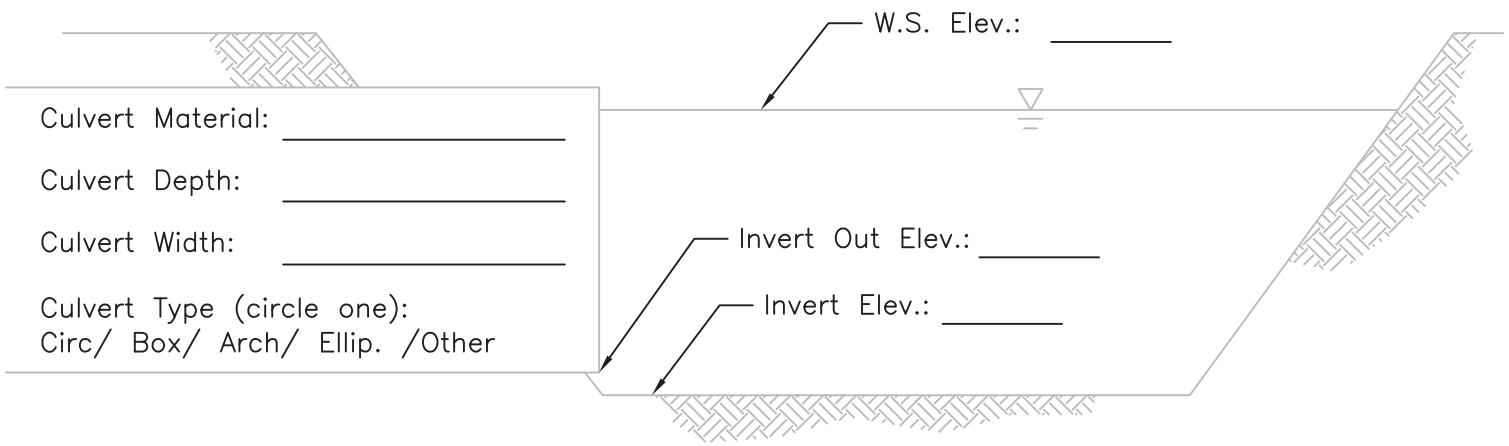
Surveyed By: _____

Location/Nearest Intersection: 5

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.



CULVERT JUNCTION/INLET CULVERT



OUTLET CULVERT LAKE

Additional description of the point location: _____

Project: Horse Run Watershed MDPU

Node/Point #: 1052

Location/Nearest Intersection: 5

Date: 6/12/11

Surveyed By: Andrew Murray / Mike Meekins

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

Rim Elev.: _____

Flow Direction ←

Culvert Material: _____

Culvert Depth: _____

Culvert Width: _____

Culvert Type (circle one):
Circ/ Box/ Arch/ Ellip. /Other

Invert In Elev.: _____

Invert Out Elev.: _____

CULVERT

Flow Direction ←

Culvert Material: _____

Culvert Depth: _____

Culvert Width: _____

Culvert Type (circle one):
Circ/ Box/ Arch/ Ellip. /Other

JUNCTION/INLET

W.S. Elev.: _____

Invert Out Elev.: _____

Invert Elev.: _____

CULVERT

OUTLET CULVERT

LAKE

Additional description of the point location:

Could not find. Does not exist.

0 30 60 120 180 240 Feet

Aerial Imagery @ 2008 Commonwealth of Virginia

See GIS for Complete Details

Survey Locations 6 & 7

Project: Horse Run Watershed MDPU

Node/Point #: 1066

Location/Nearest Intersection: 6

Date: 5/16/11

Surveyed By: Andrew Murray
Mike Meeking

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

Rim Elev.: _____

Flow Direction ←

Flow Direction ←

Culvert Material: _____

Culvert Depth: _____

Culvert Width: _____

Culvert Type (circle one):
Circ/ Box/ Arch/ Ellip. /Other

Culvert Material: _____

Culvert Depth: _____

Culvert Width: _____

Culvert Type (circle one):
Circ/ Box/ Arch/ Ellip. /Other

Invert In Elev.: _____

Invert Out Elev.: _____

CULVERT | JUNCTION/INLET | CULVERT

W.S. Elev.: _____

Culvert Material: _____

Culvert Depth: _____

Culvert Width: _____

Culvert Type (circle one):
Circ/ Box/ Arch/ Ellip. /Other

Invert Out Elev.: _____

Invert Elev.: _____

OUTLET CULVERT | LAKE

Additional description of the point location: No Structure at location.

Project: Horse Run Watershed MDPU

Node/Point #: 1072

Location/Nearest Intersection: 7

Date: 5/16/11

Surveyed By: Andrew Murray
Mike Meeks

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

Side Slope (Horz/Vert): _____

Culvert Material: _____

Culvert Depth: _____

Culvert Width: _____

Culvert Type (circle one):
Circ/ Box/ Arch/ Ellip. /Other

Culvert Invert Elev.: _____

Flow Direction (circle one): ← →

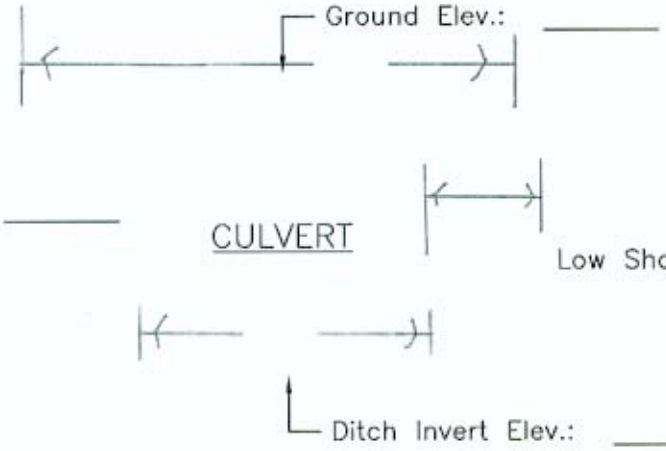
Channel Material (circle one): Earth / Conc. / Other

Bottom Width: _____

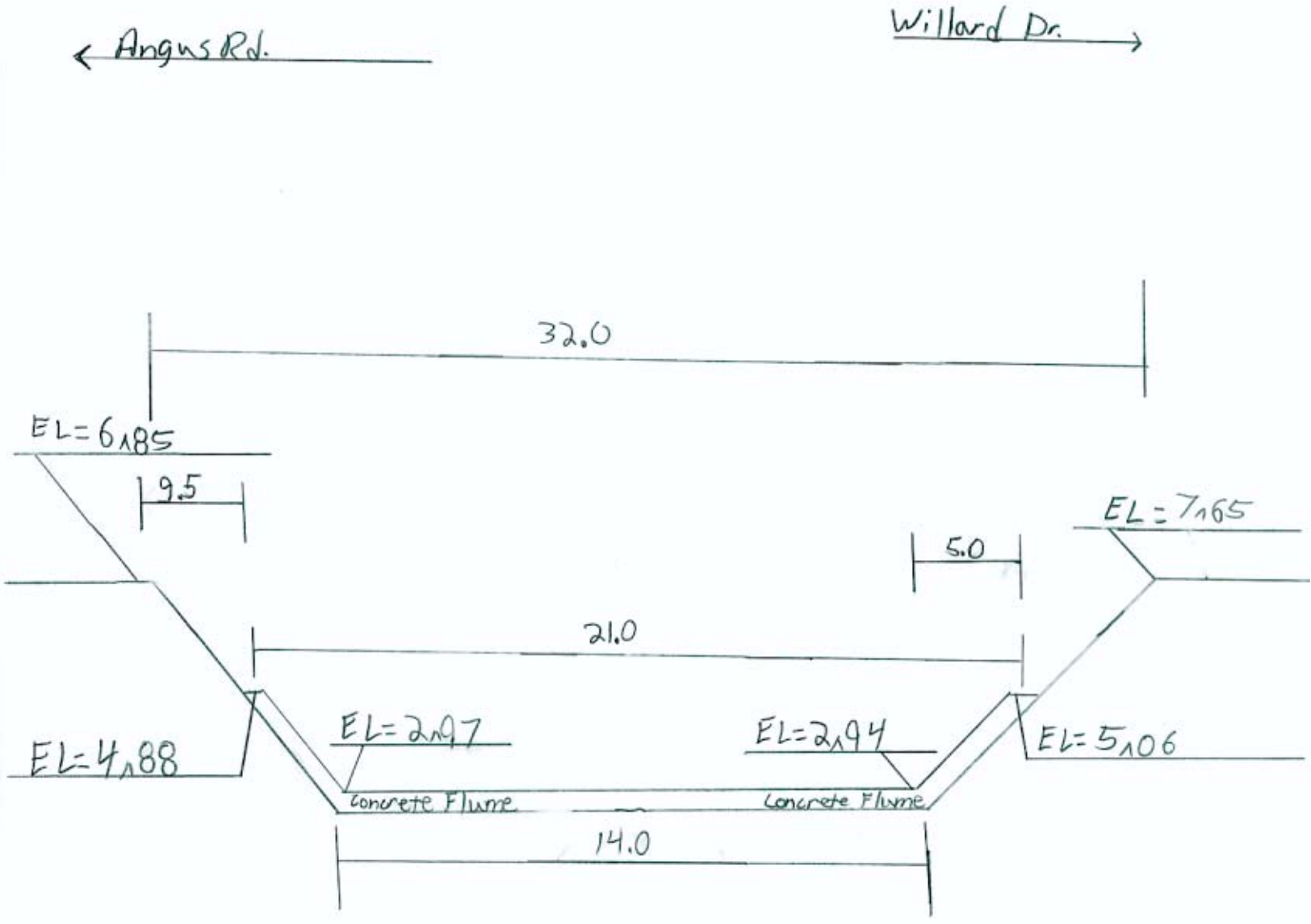
Side Slope (Horz/Vert): _____

CULVERT

DITCH



Additional description of the point location: See back of page, cross section of ditch w/ concrete flume. No pipes.


Angus Rd.
Willard Dr.
32.0
EL=6.85
9.5
EL=7.65
5.0
21.0
EL=4.88
EL=2.97
EL=2.94
EL=5.06
Concrete Flume
Concrete Flume
14.0
#7

0 30 60 120 180 240 Feet

Aerial Imagery @ 2008 Commonwealth of Virginia

See GIS for Complete Details

Survey Locations 8, 9, & 10

Project: Horse Run Watershed MDPU

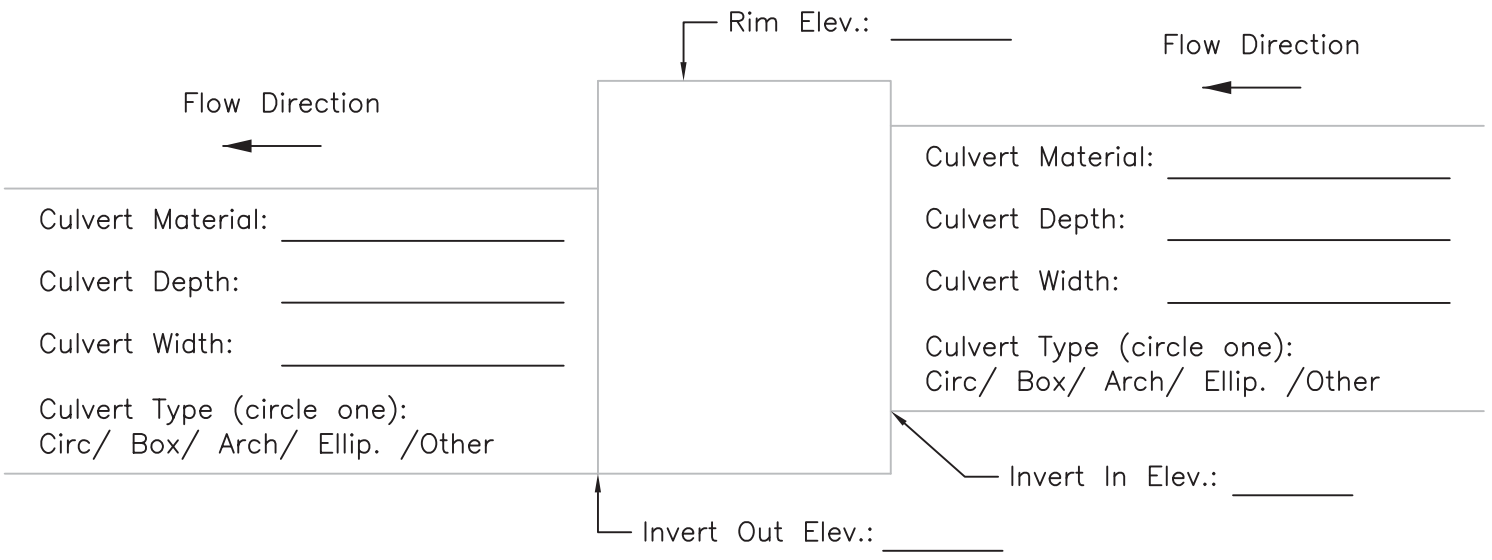
Date: _____

Node/Point #: 1076

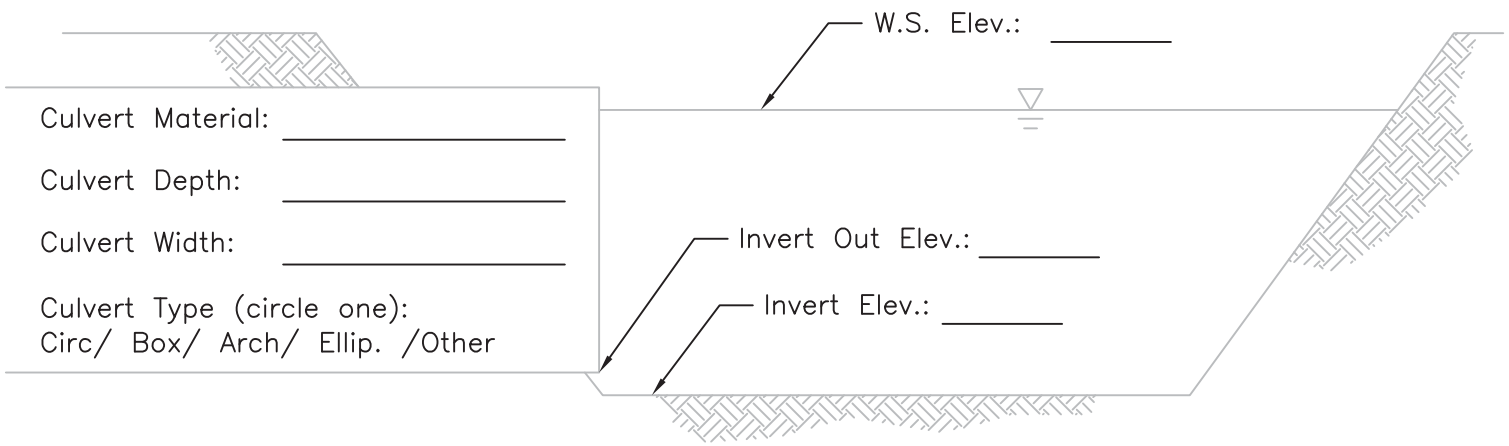
Surveyed By: _____

Location/Nearest Intersection: 8

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

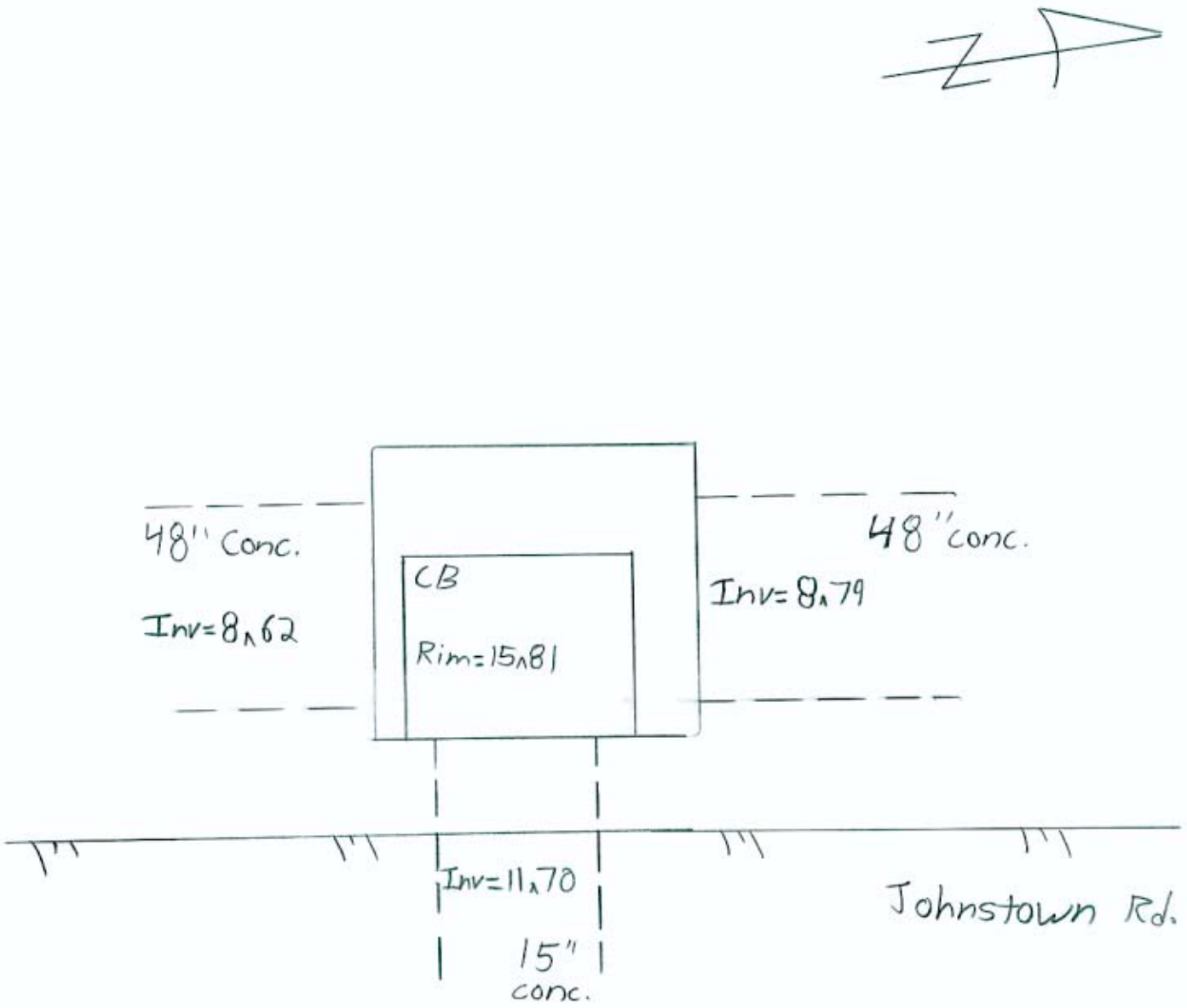


CULVERT JUNCTION/INLET CULVERT



OUTLET CULVERT LAKE

Additional description of the point location: _____


48" Conc.
Inv=8.62
CB
Rim=15.81
48" conc.
Inv=8.79
Inv=11.70
15" conc.
Johnstown Rd.

#8

Project: Horse Run Watershed MDPU

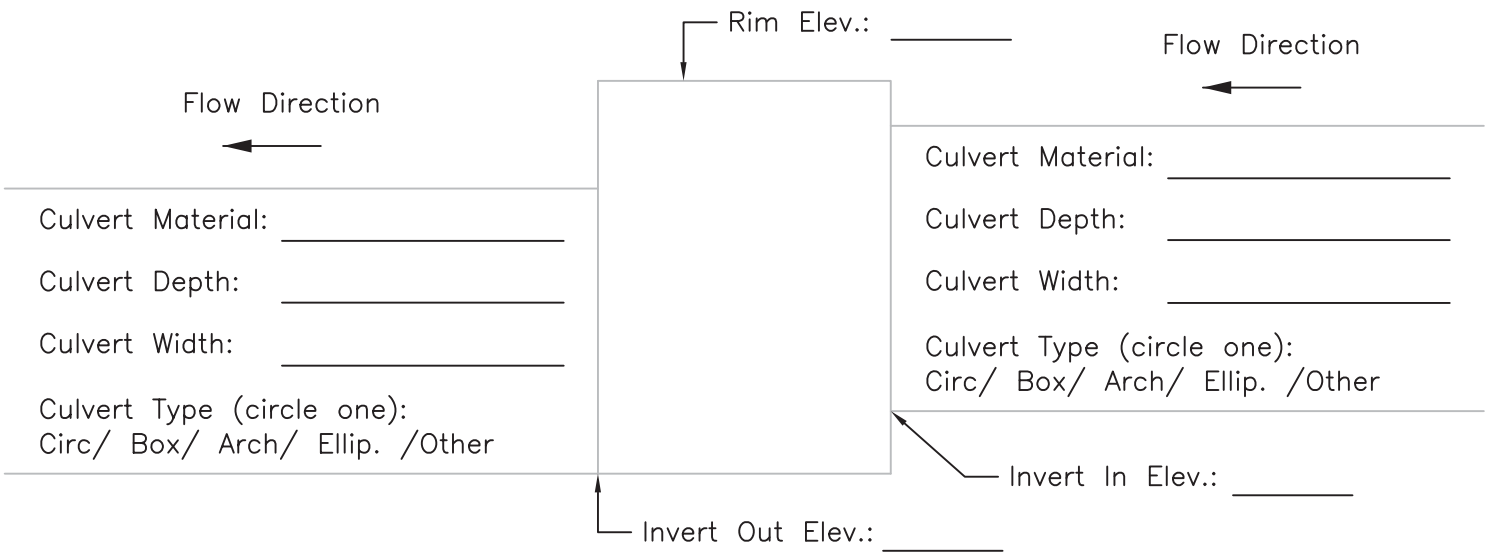
Date: _____

Node/Point #: 1078

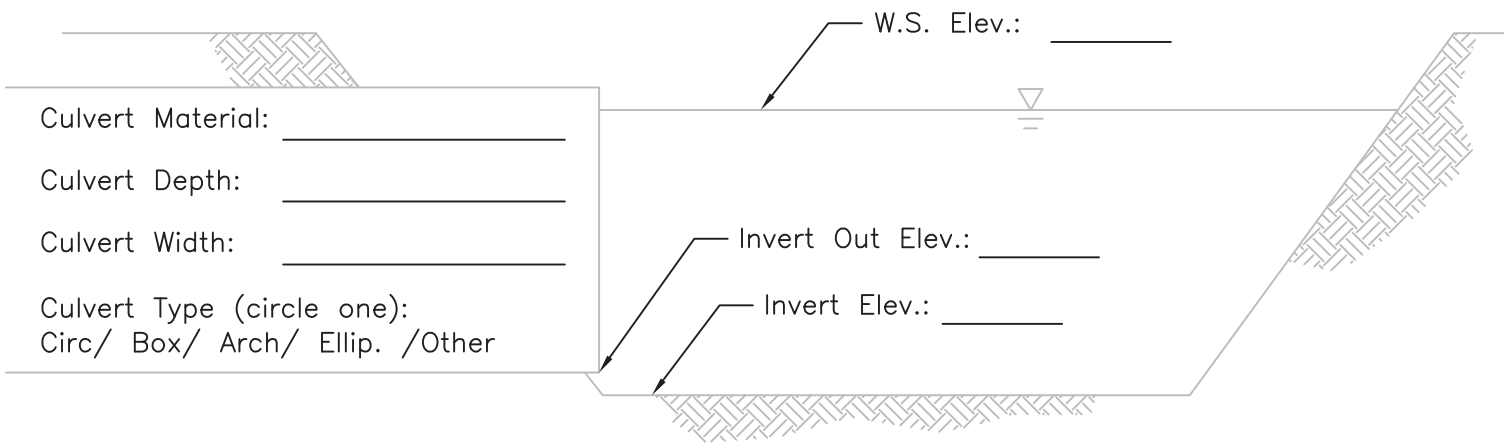
Surveyed By: _____

Location/Nearest Intersection: 9

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

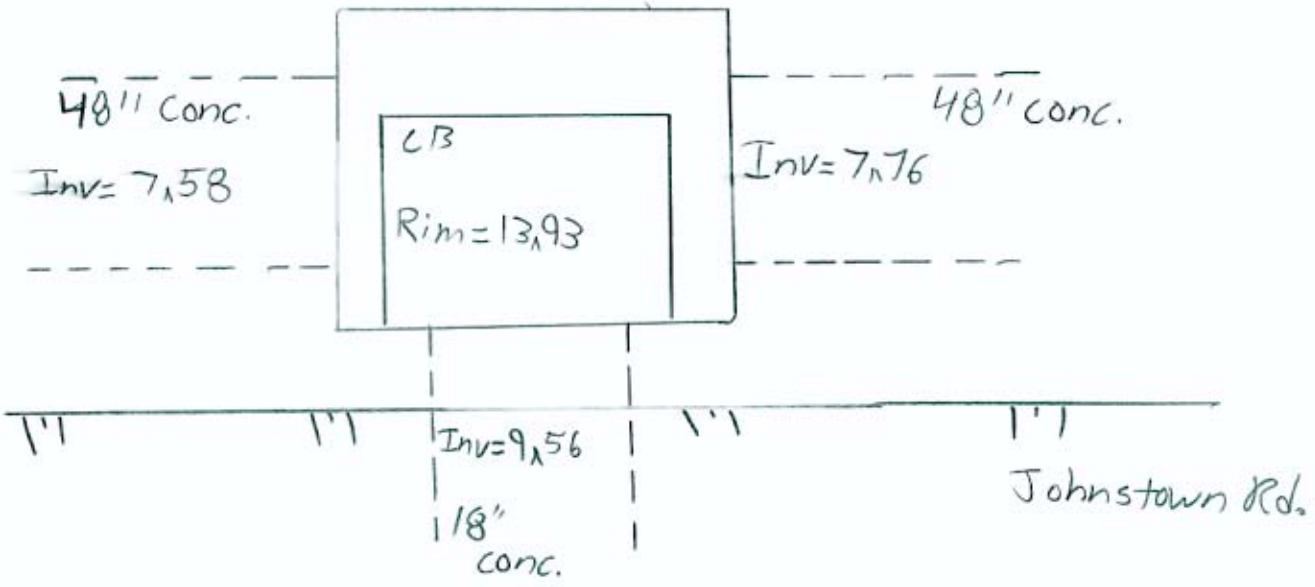


CULVERT JUNCTION/INLET CULVERT



OUTLET CULVERT LAKE

Additional description of the point location: _____


48" conc.
Inv= 7.58
CB
Rim=13.93
Inv=7.76
48" conc.
Inv=9.56
18" conc.
Johnstown Rd.

#9

Project: Horse Run Watershed MDPU

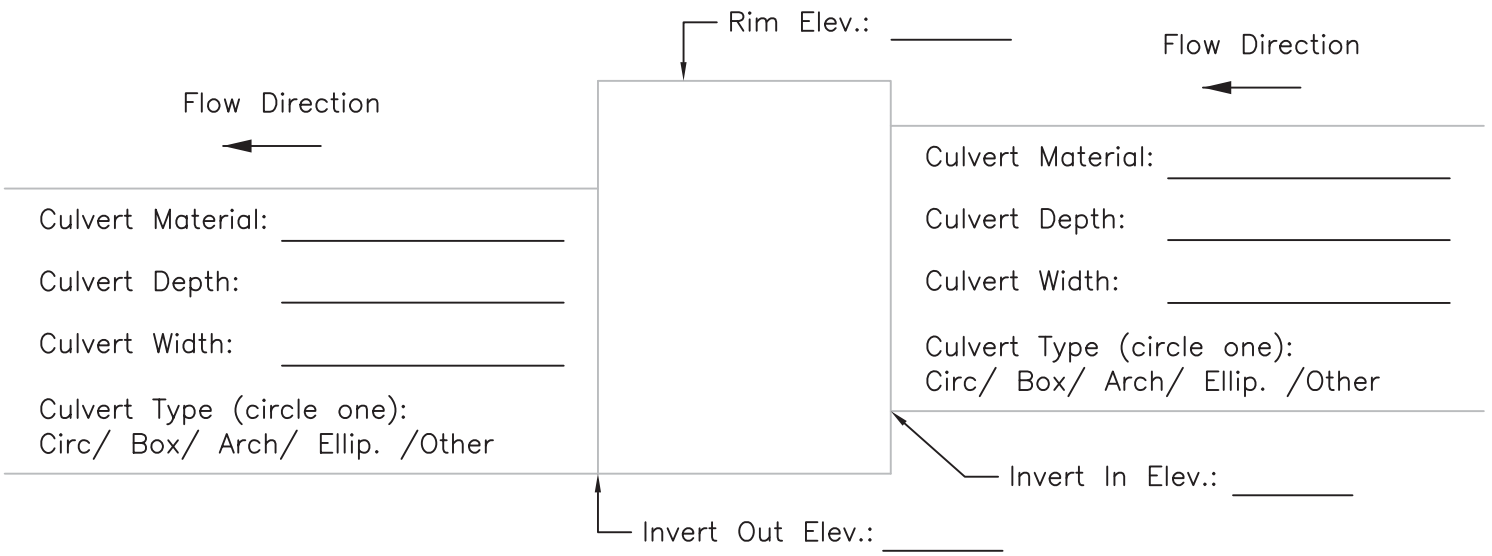
Date: _____

Node/Point #: 1092

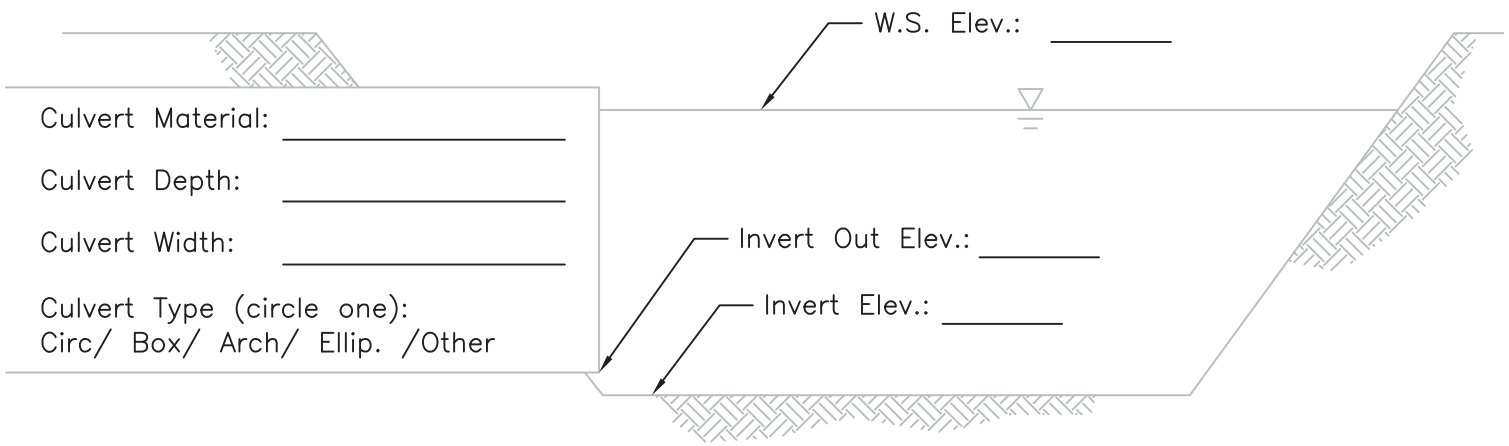
Surveyed By: _____

Location/Nearest Intersection: 10

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

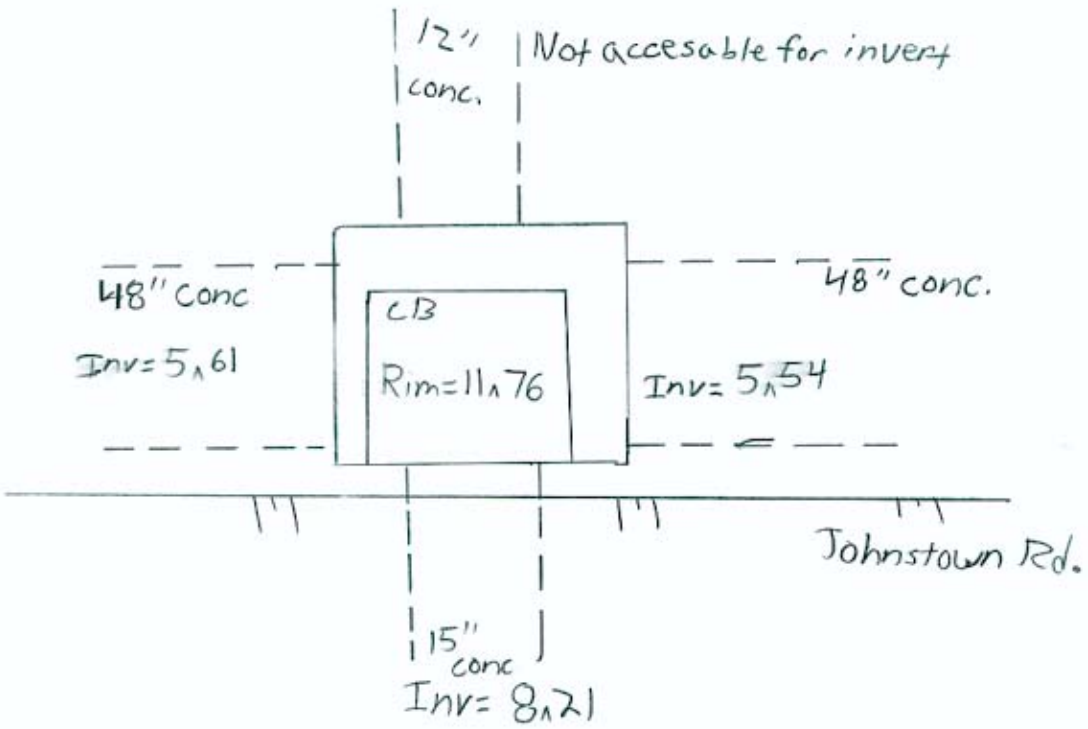


CULVERT JUNCTION/INLET CULVERT



OUTLET CULVERT LAKE

Additional description of the point location: _____


12" conc.
Not accesable for invert
48" conc
Inv= 5.61
CB
Rim=11.76
48" conc.
Inv= 5.54
Johnstown Rd.
15" conc
Inv= 8.21

#10

0 10 20 40 60 80 Feet

Aerial Imagery @ 2008 Commonwealth of Virginia

See GIS for Complete Details

Survey Location 11

Project: Horse Run Watershed MDPU

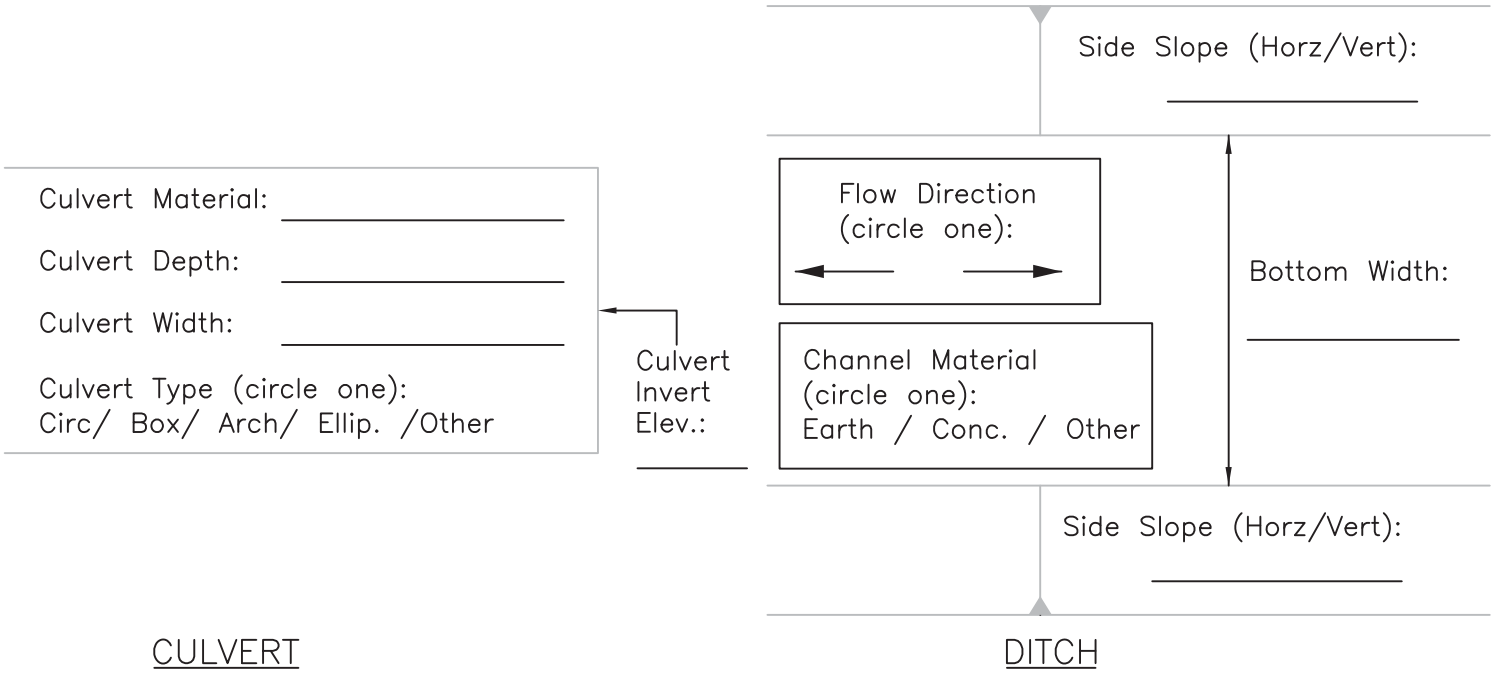
Date: _____

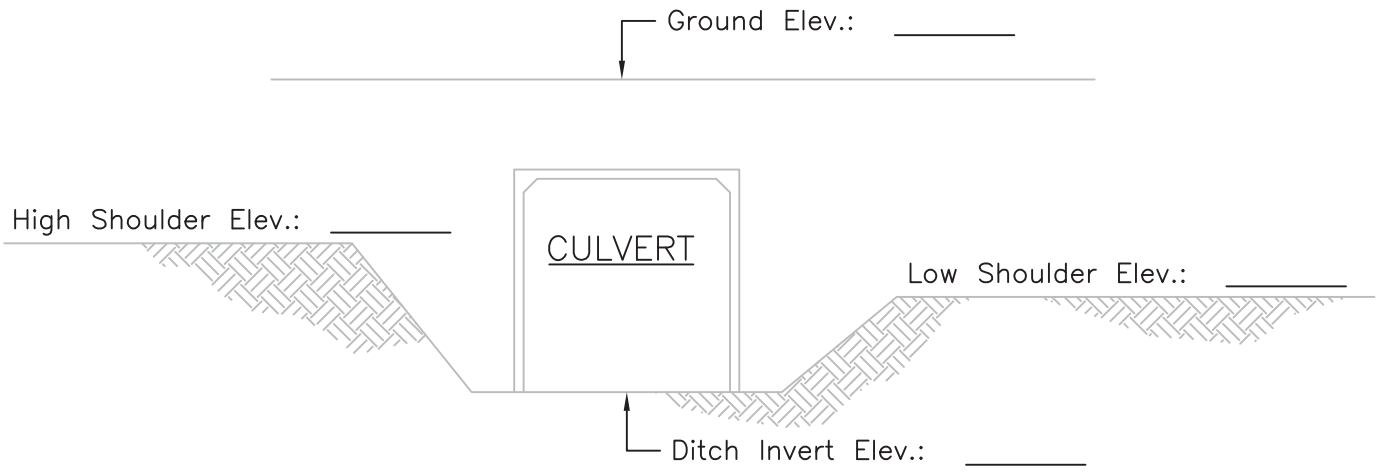
Node/Point #: 1098

Surveyed By: _____

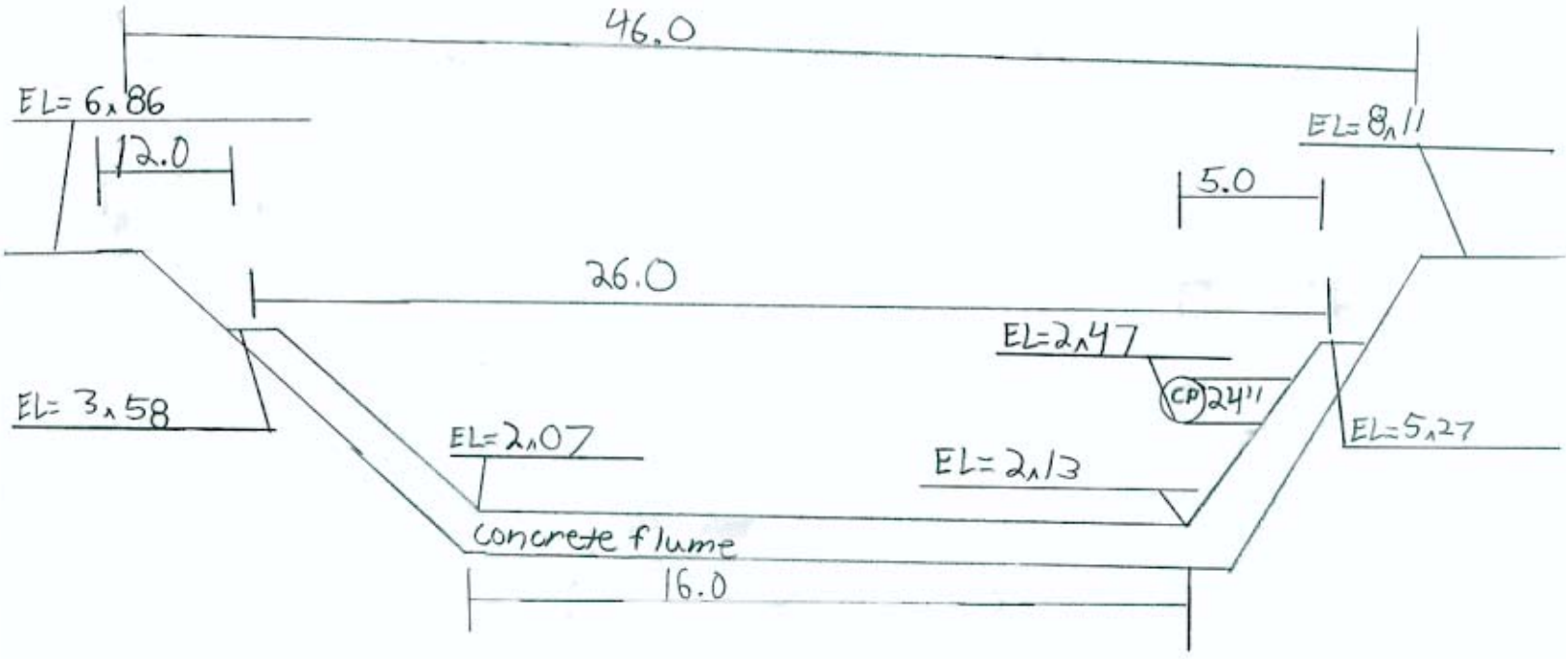
Location/Nearest Intersection: 11

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.



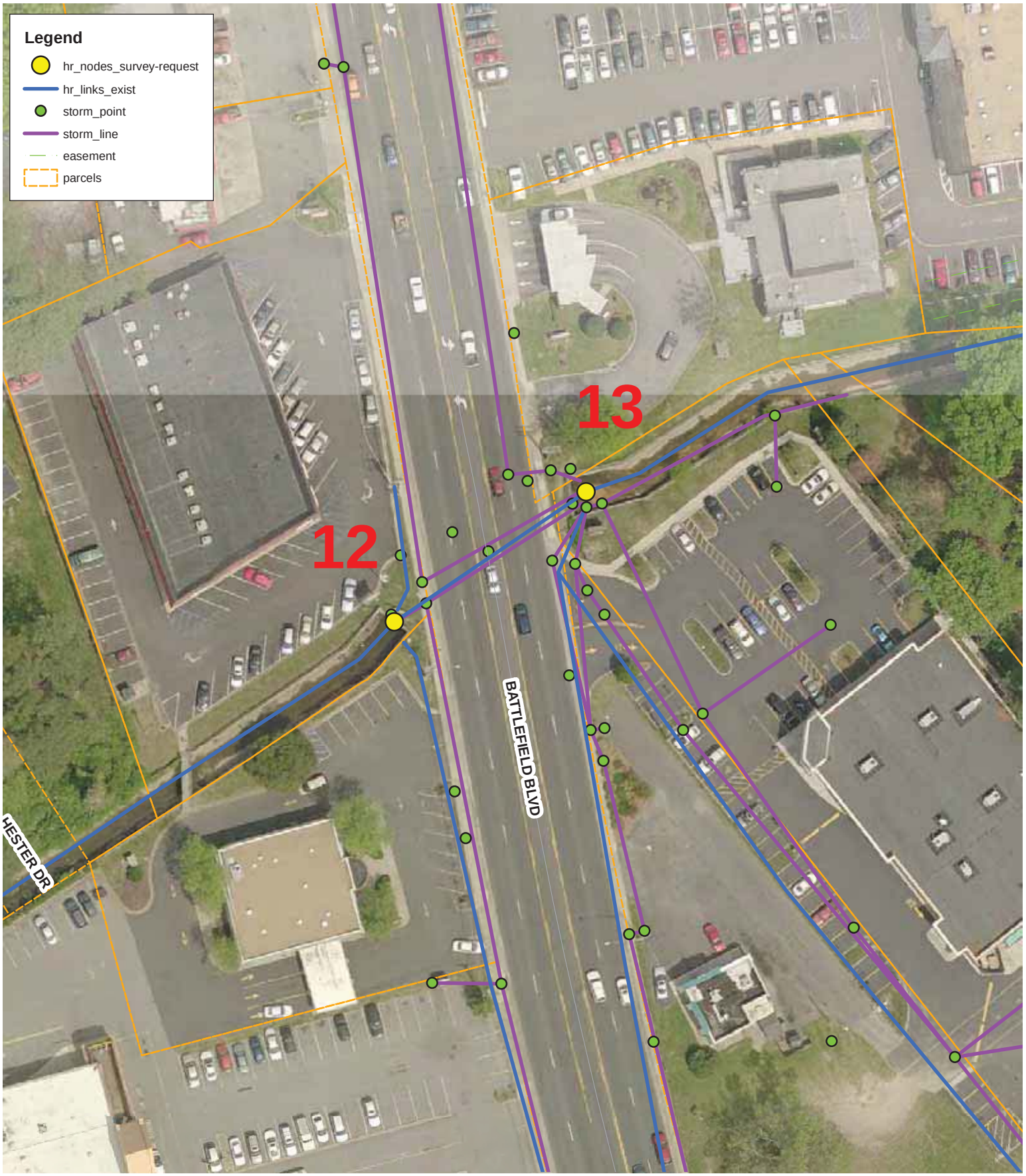


Additional description of the point location:



#11

Horse Run Rd. ⟶



0 15 30 60 90 120
Feet

Aerial Imagery @ 2008 Commonwealth of Virginia

See GIS for Complete Details

Survey Locations 12 & 13

Project: Horse Run Watershed MDPU

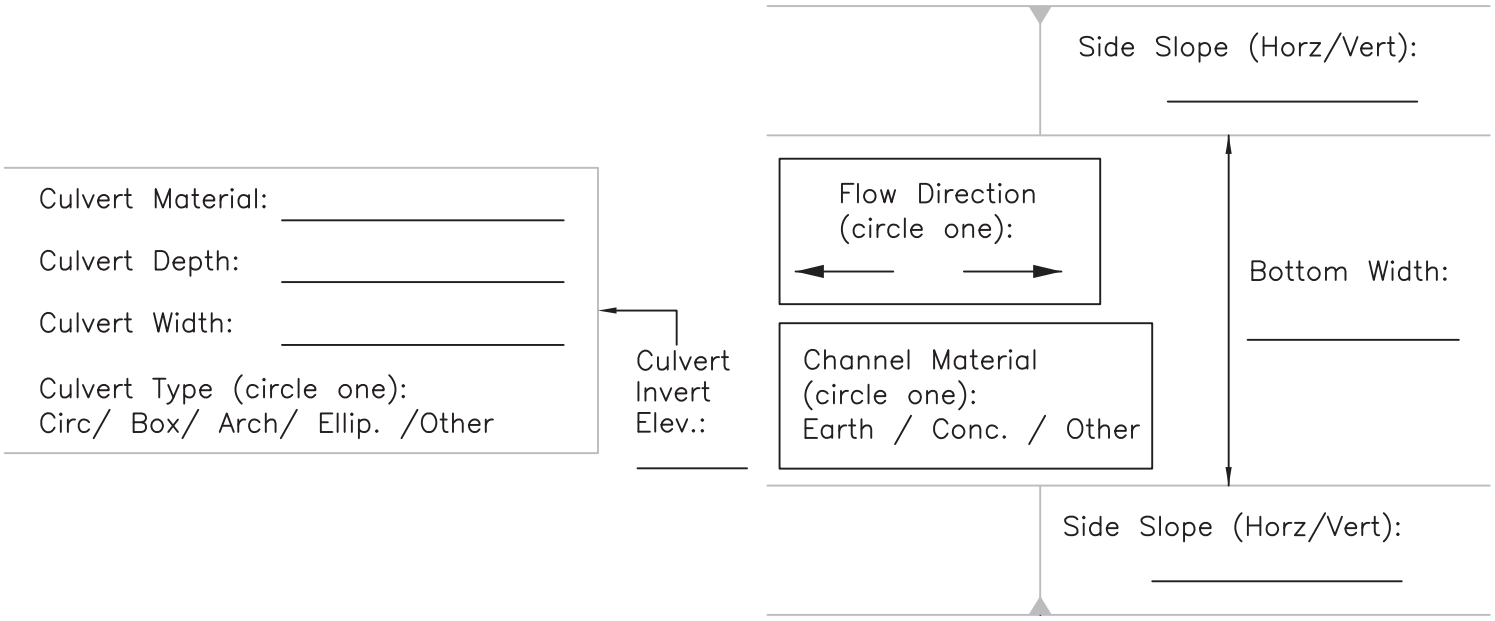
Date: _____

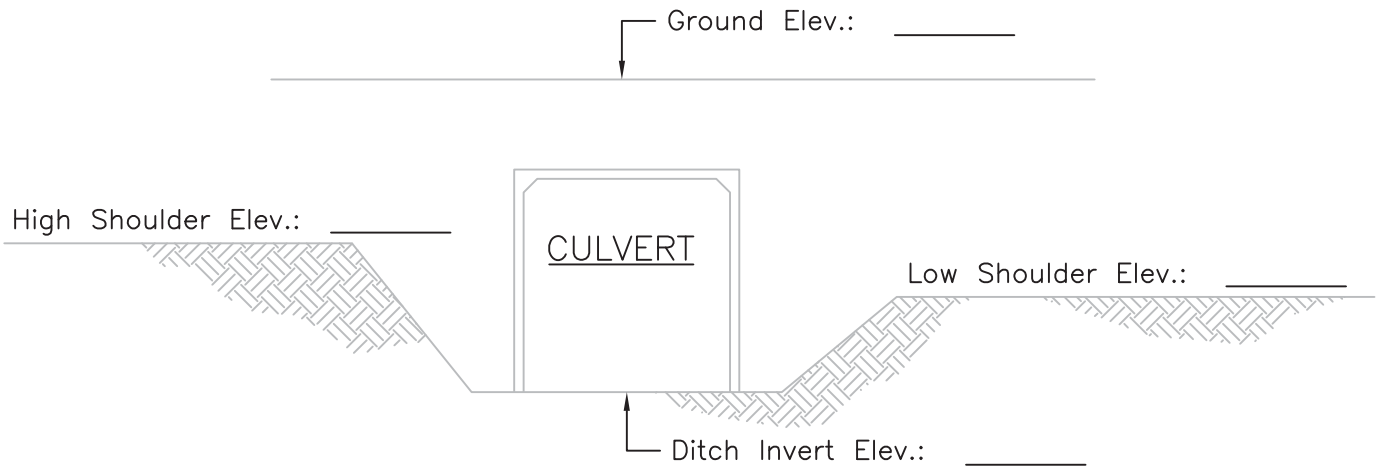
Node/Point #: 1070

Surveyed By: _____

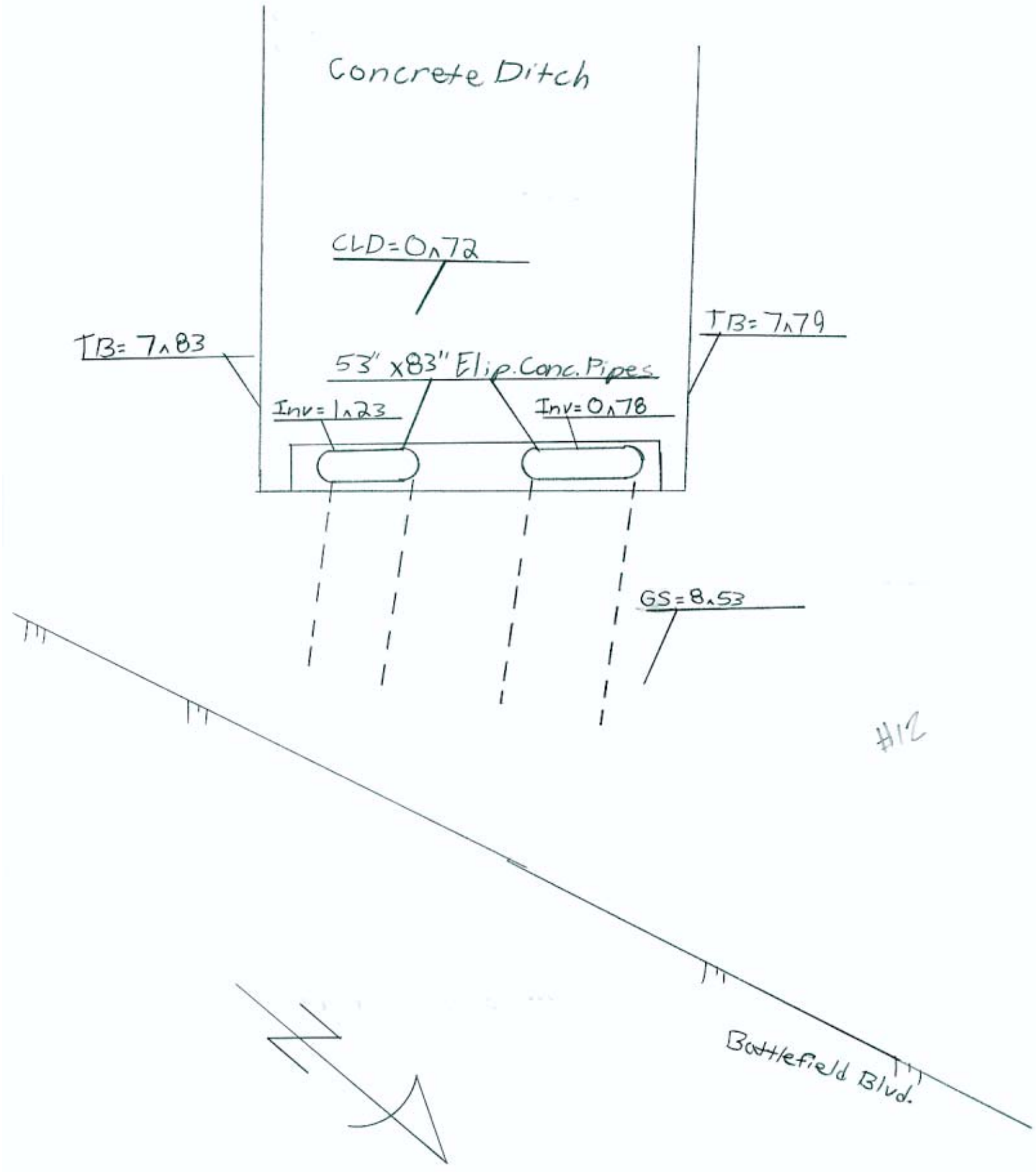
Location/Nearest Intersection: 12

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.





Additional description of the point location:


Concrete Ditch
CLD=0.72
TB= 7.83
TB= 7.79
53" x83" Elip. Conc. Pipes
Inv= 1.23
Inv= 0.78
GS= 8.53
#12
Battlefield Blvd.

Project: Horse Run Watershed MDPU

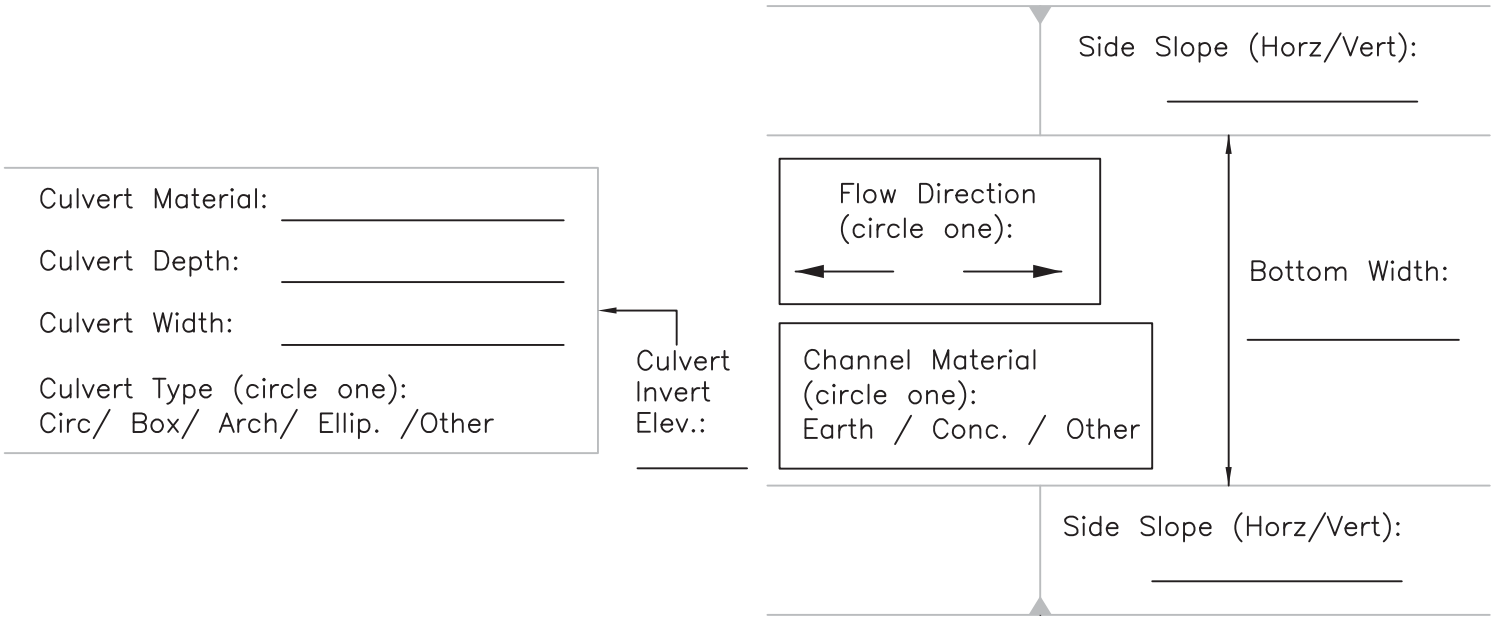
Date: _____

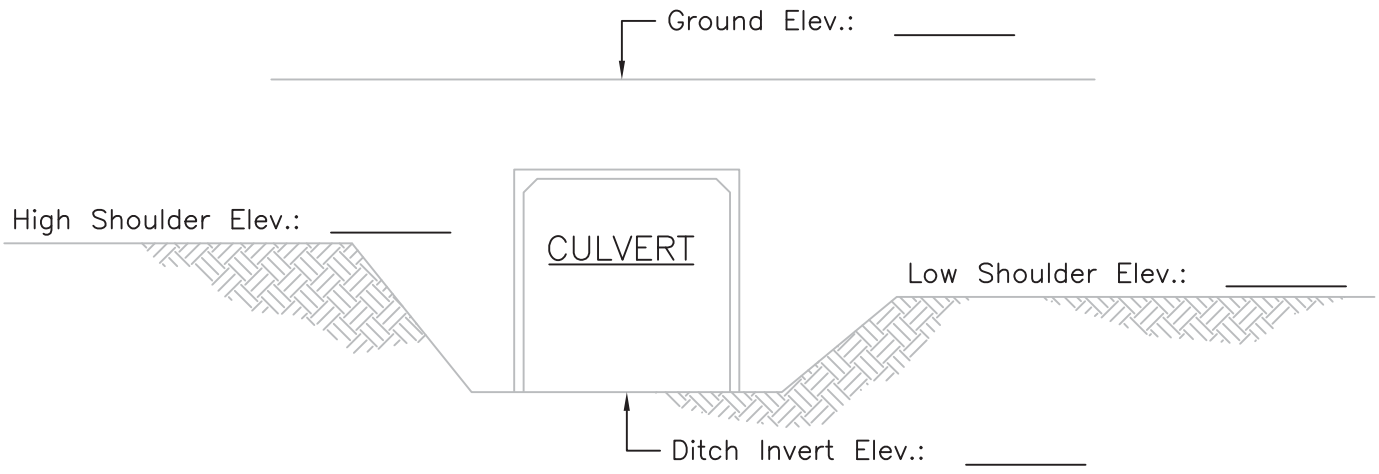
Node/Point #: 1080

Surveyed By: _____

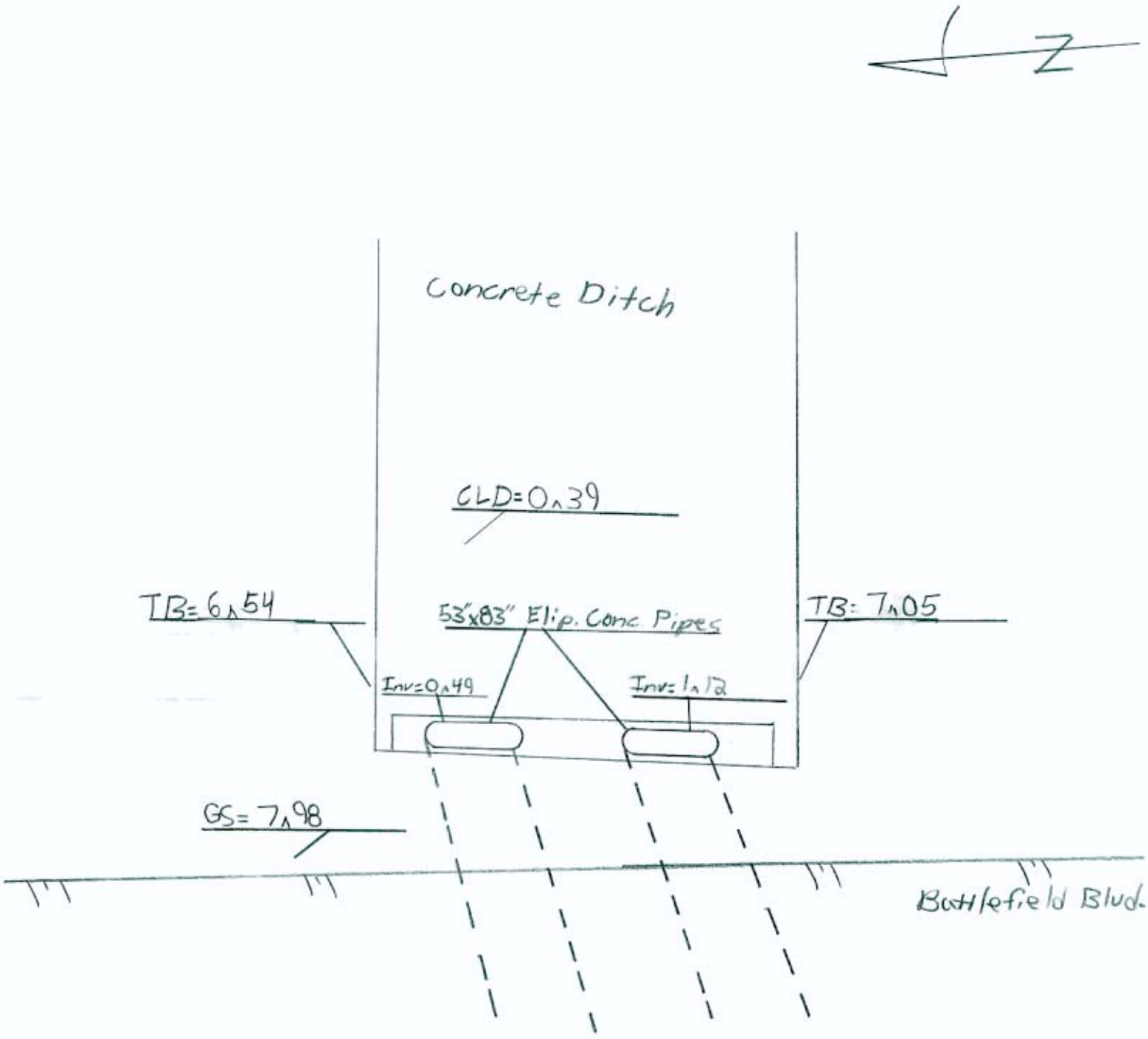
Location/Nearest Intersection: 13

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.





Additional description of the point location:


N
Concrete Ditch
CLD=0.39
TB=6.54
53"x83" Elip. Conc Pipes
TB: 7.05
Inv=0.49
Inv: 1.12
GS=7.98
Battlefield Blvd.

#13

0 20 40 80 120 160
Feet

Aerial Imagery @ 2008 Commonwealth of Virginia

See GIS for Complete Details

Survey Location 14

Project: Horse Run Watershed MDPU

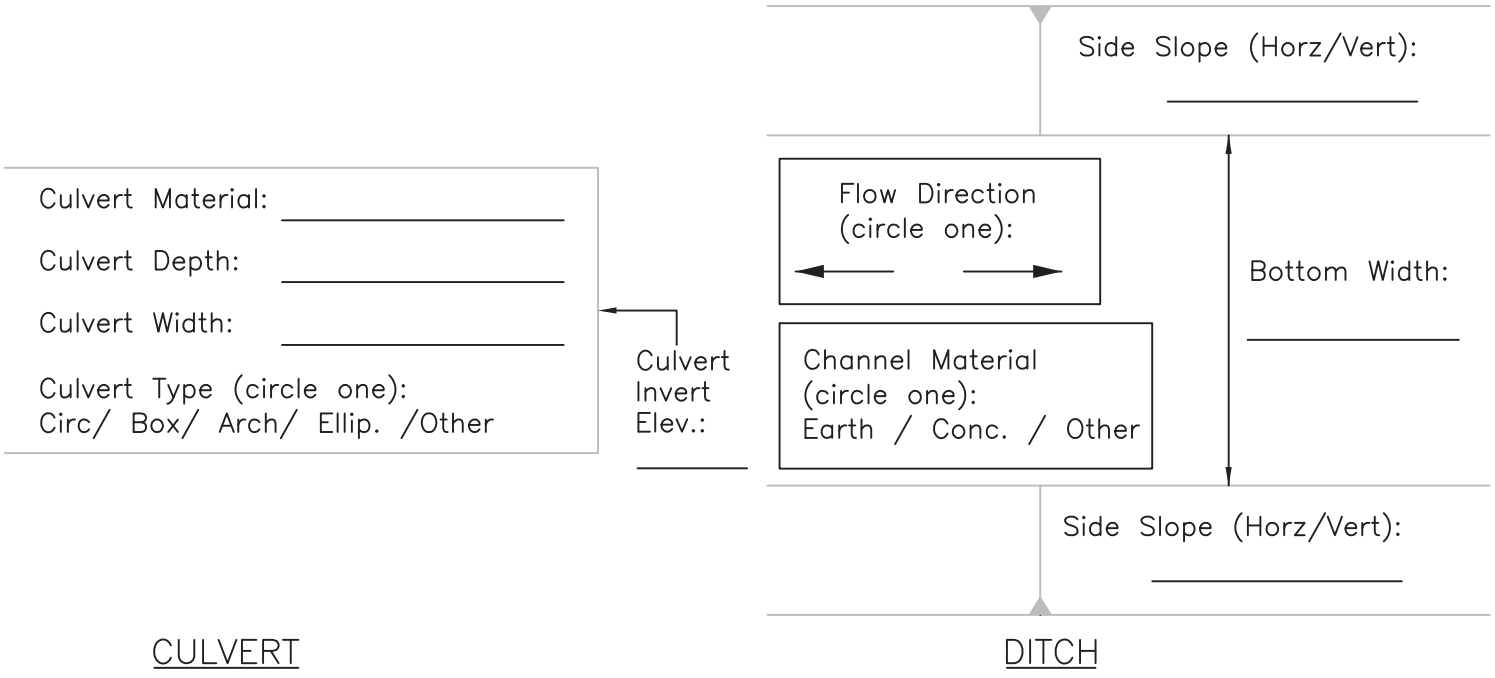
Date: _____

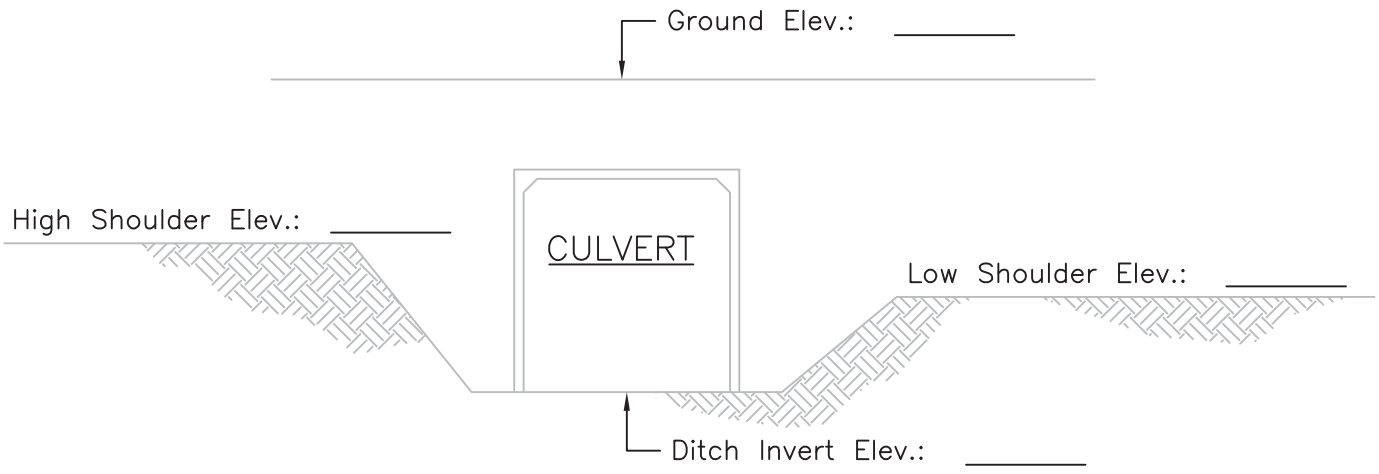
Node/Point #: 1085

Surveyed By: _____

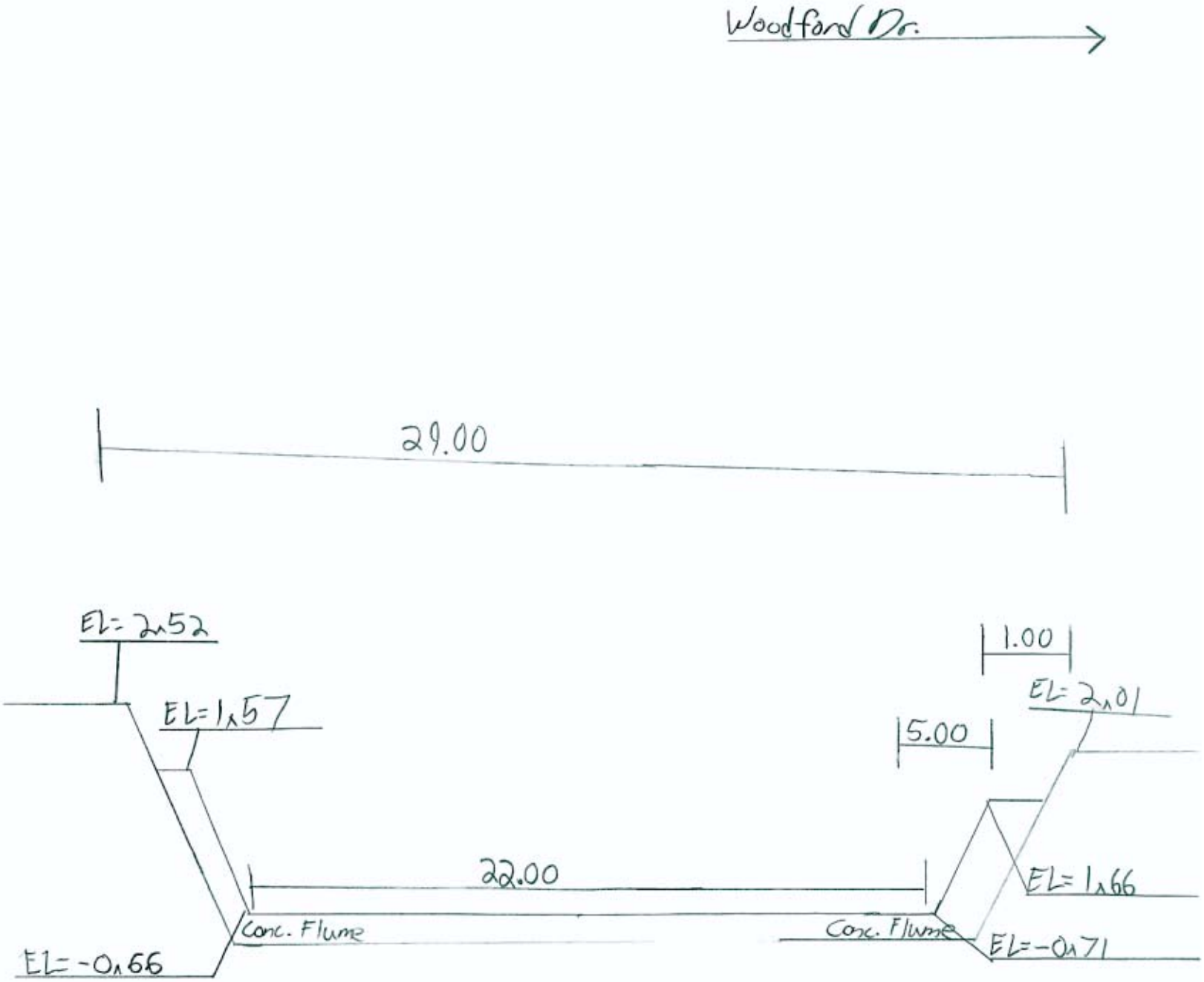
Location/Nearest Intersection: 14

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

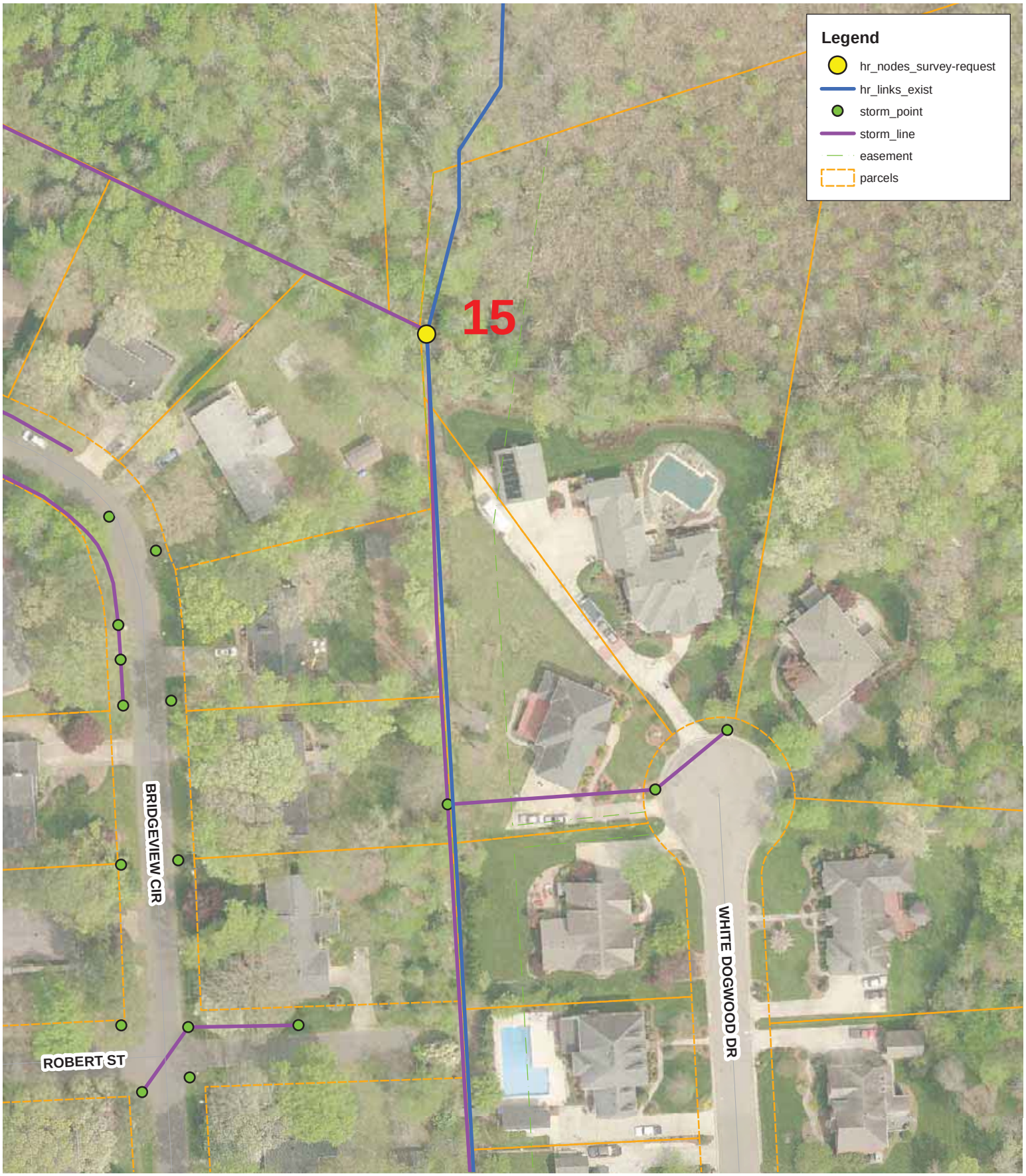




Additional description of the point location:


Woodford Dr.
29.00
EL= 2.52
EL= 1.57
1.00
EL= 2.01
5.00
22.00
EL= 1.66
Conc. Flume
Conc. Flume
EL= -0.66
EL= -0.71

#14



0 20 40 80 120 160
Feet

Aerial Imagery @ 2008 Commonwealth of Virginia

See GIS for Complete Details

Survey Location 15

Project: Horse Run Watershed MDPU

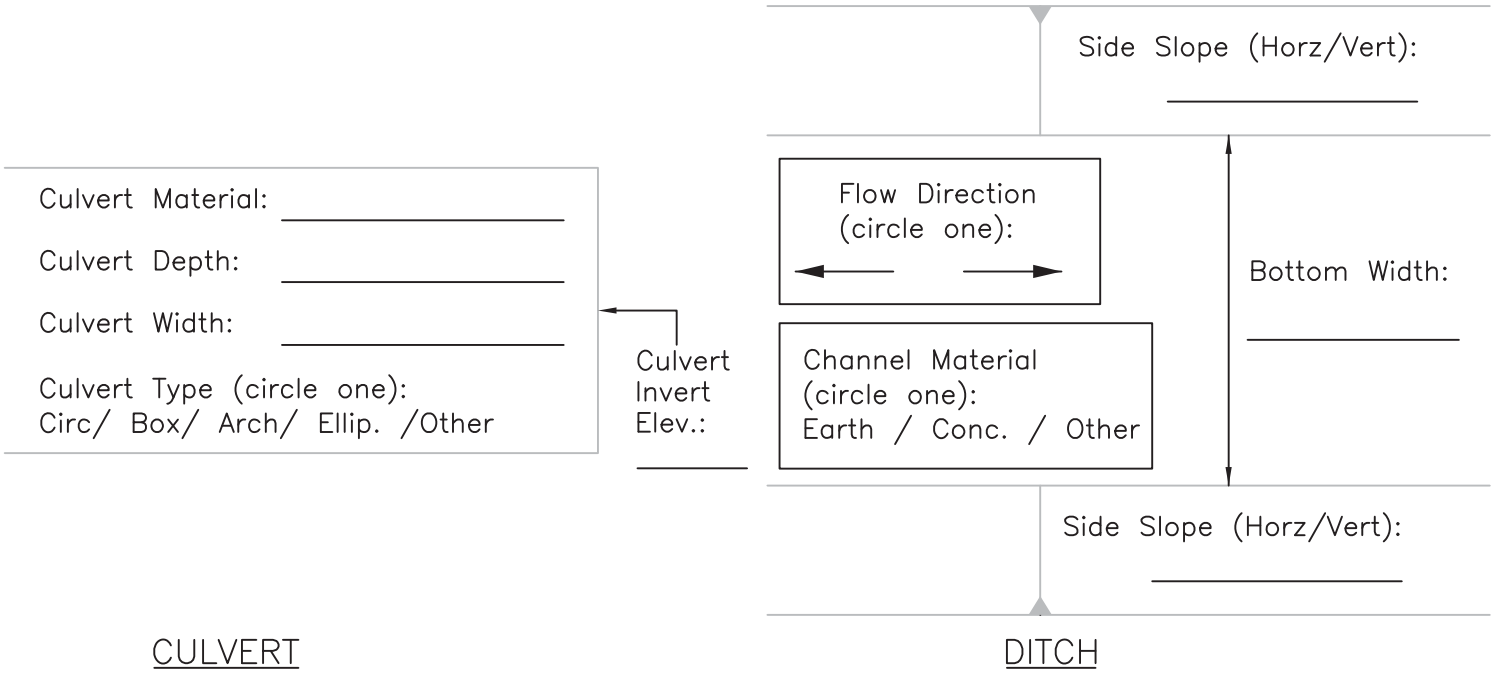
Date: _____

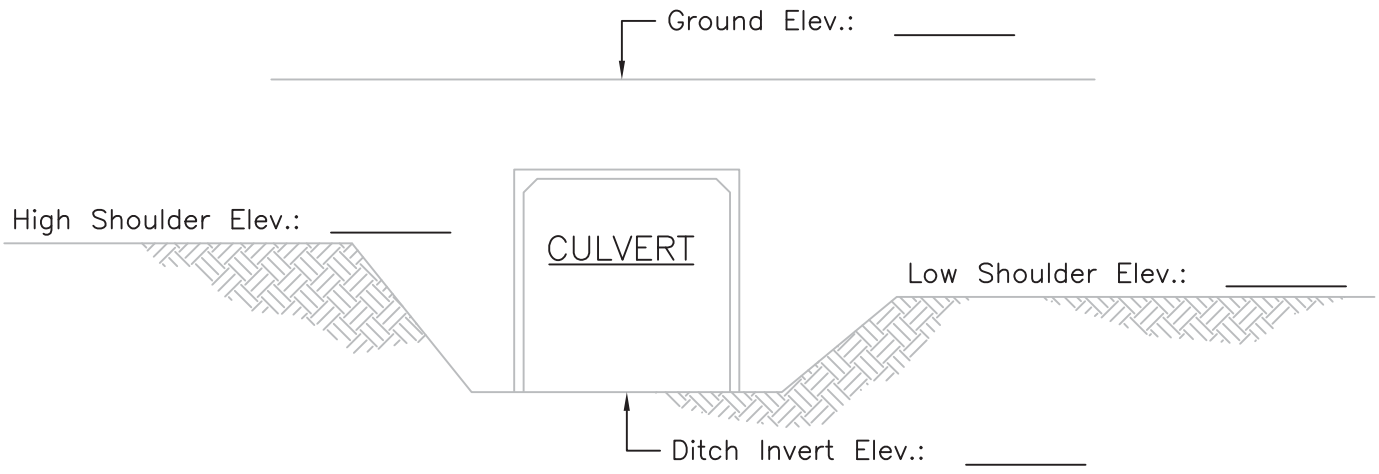
Node/Point #: 1180

Surveyed By: _____

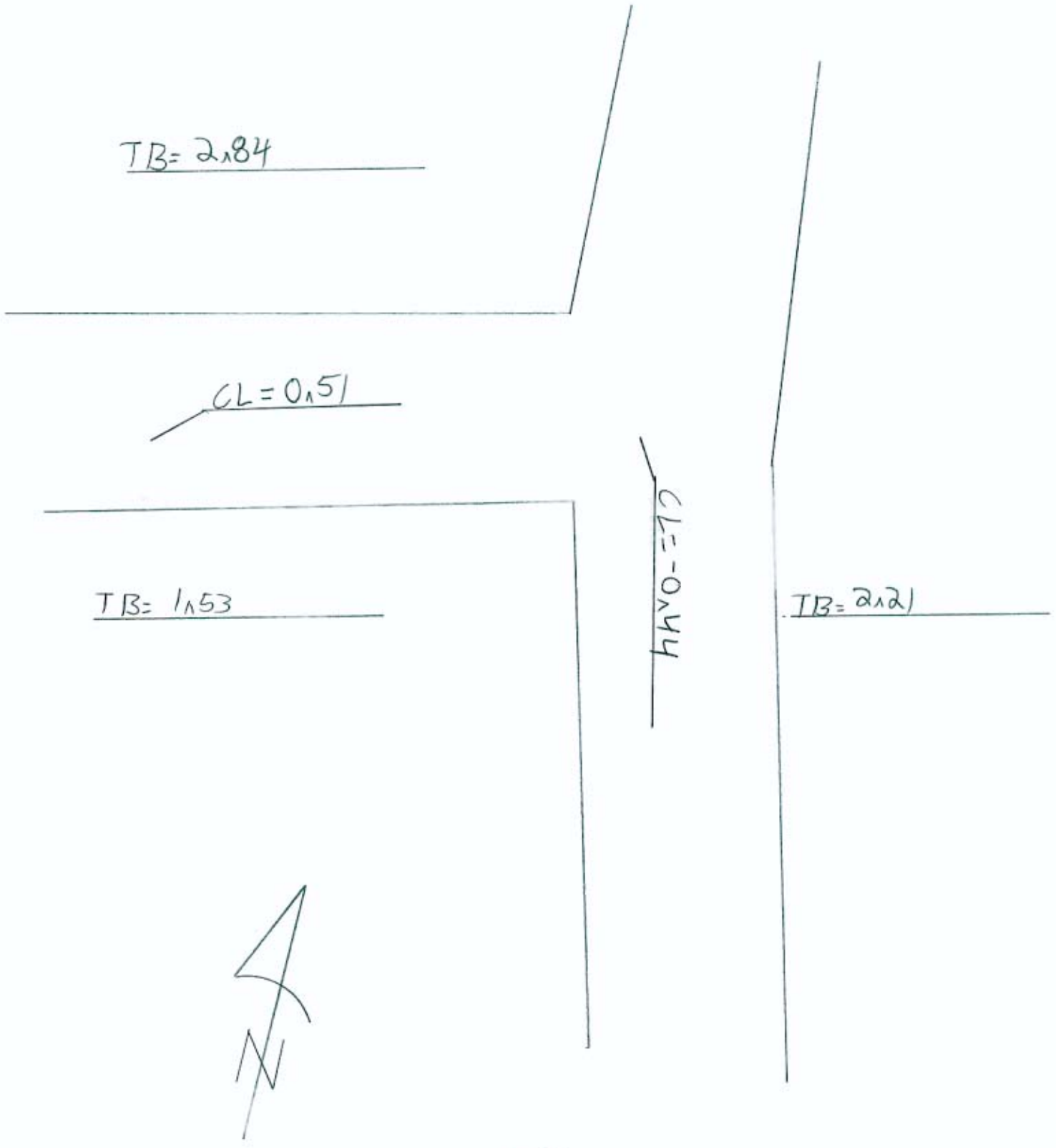
Location/Nearest Intersection: 15

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

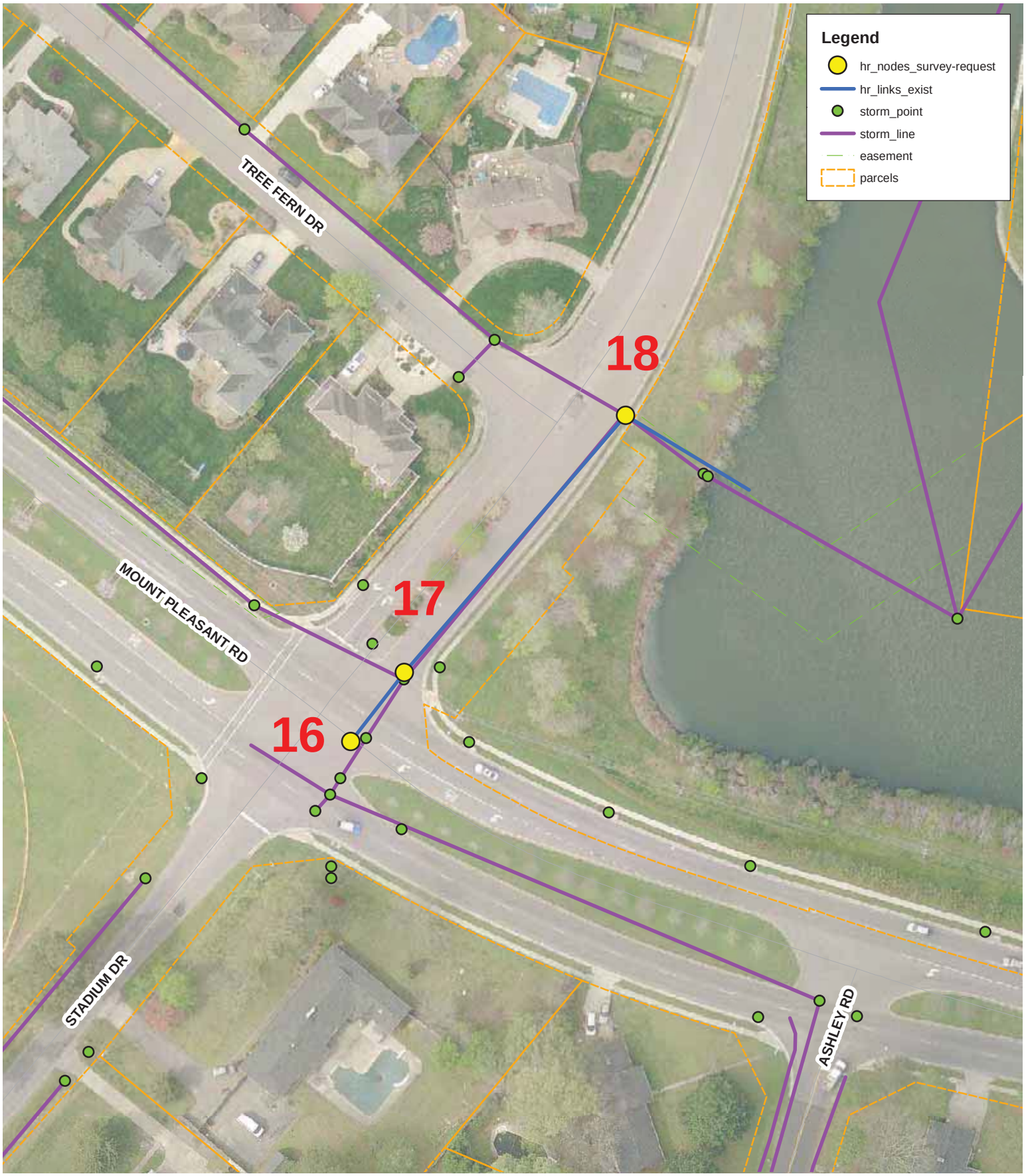




Additional description of the point location:



#15



0 20 40 80 120 160
Feet

Aerial Imagery @ 2008 Commonwealth of Virginia

See GIS for Complete Details

Survey Locations 16, 17, & 18

Project: Horse Run Watershed MDPU

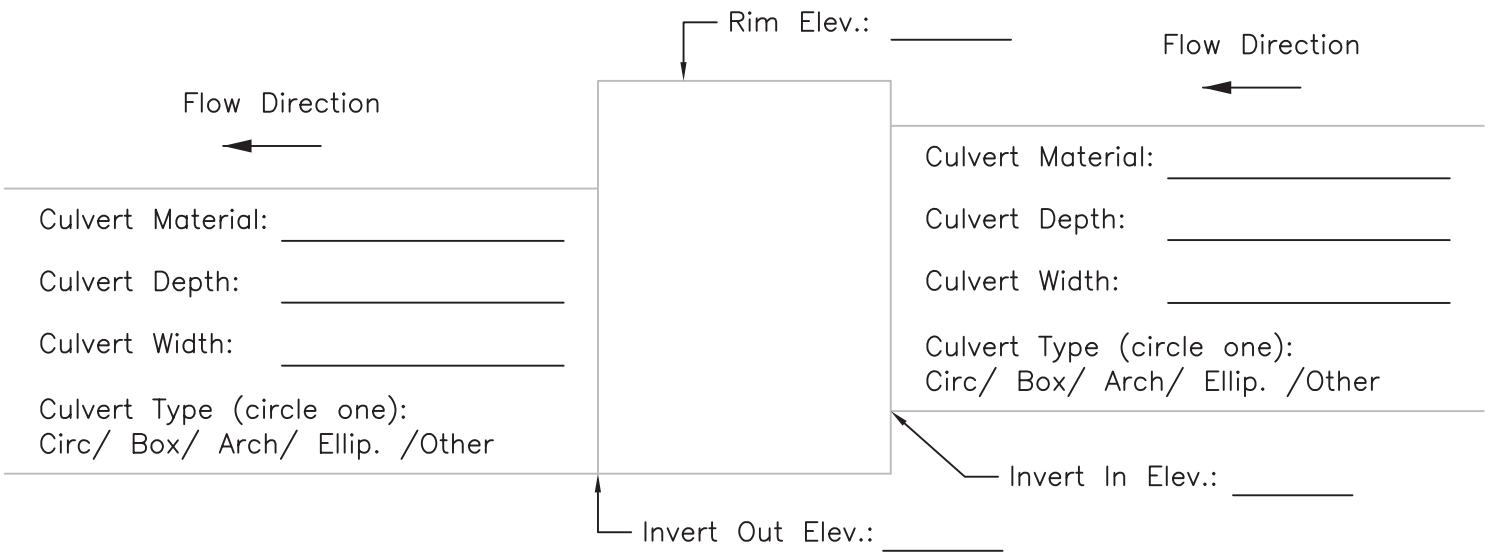
Date: _____

Node/Point #: 1168

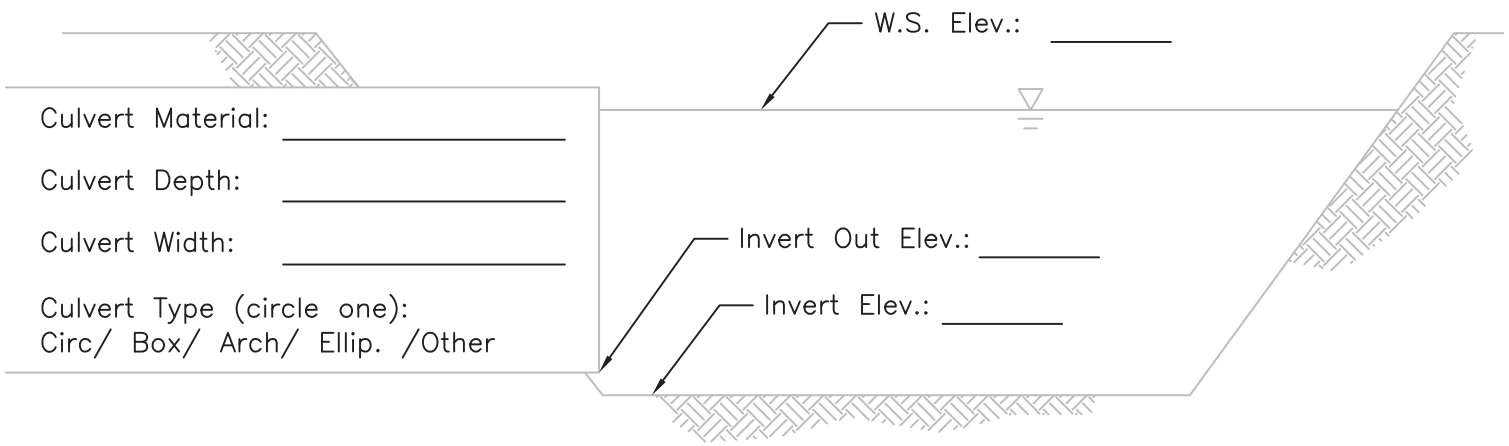
Surveyed By: _____

Location/Nearest Intersection: 16

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

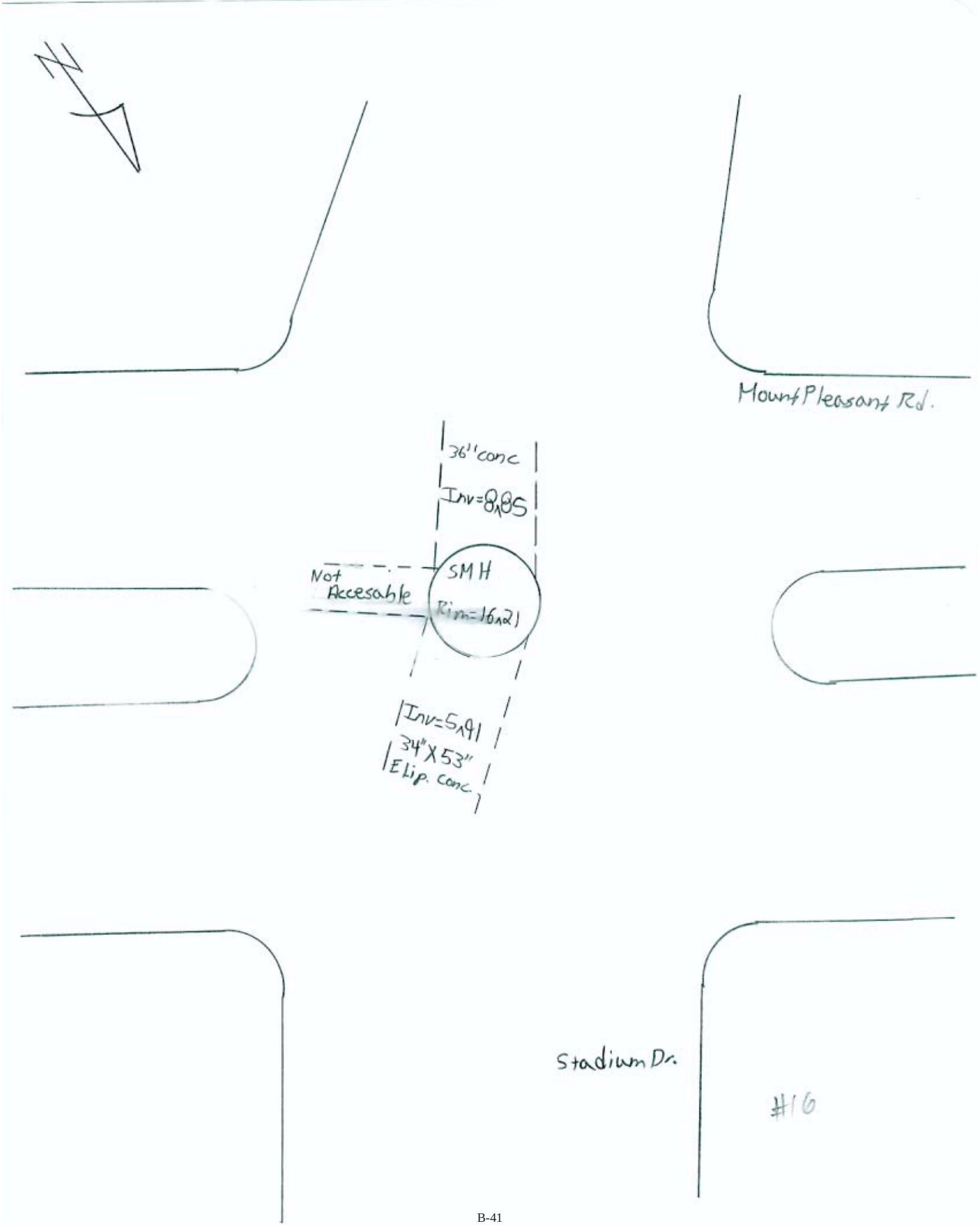


CULVERT JUNCTION/INLET CULVERT



OUTLET CULVERT LAKE

Additional description of the point location: _____


N
Mount Pleasant Rd.
36" conc
Inv=8.85
SMH
Not
Accesable
Rim=16.21
Inv=5.91
34" X 53"
Elip. conc.
Stadium Dr.
#16

Project: Horse Run Watershed MDPU

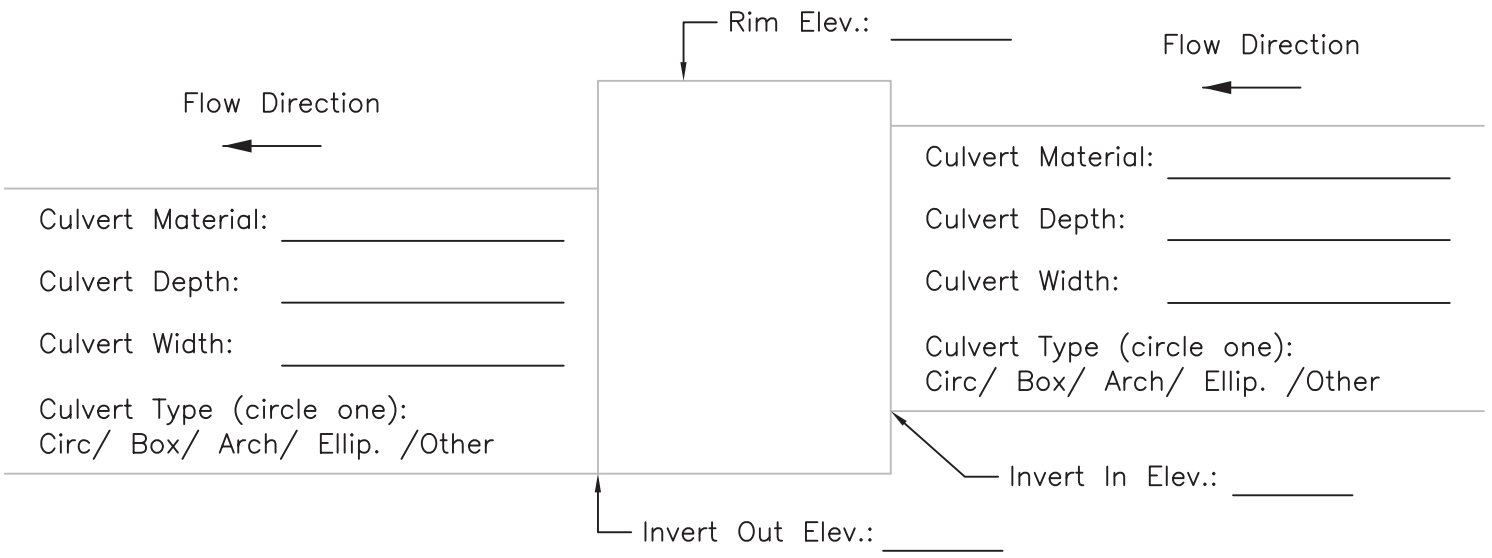
Date: _____

Node/Point #: 1174

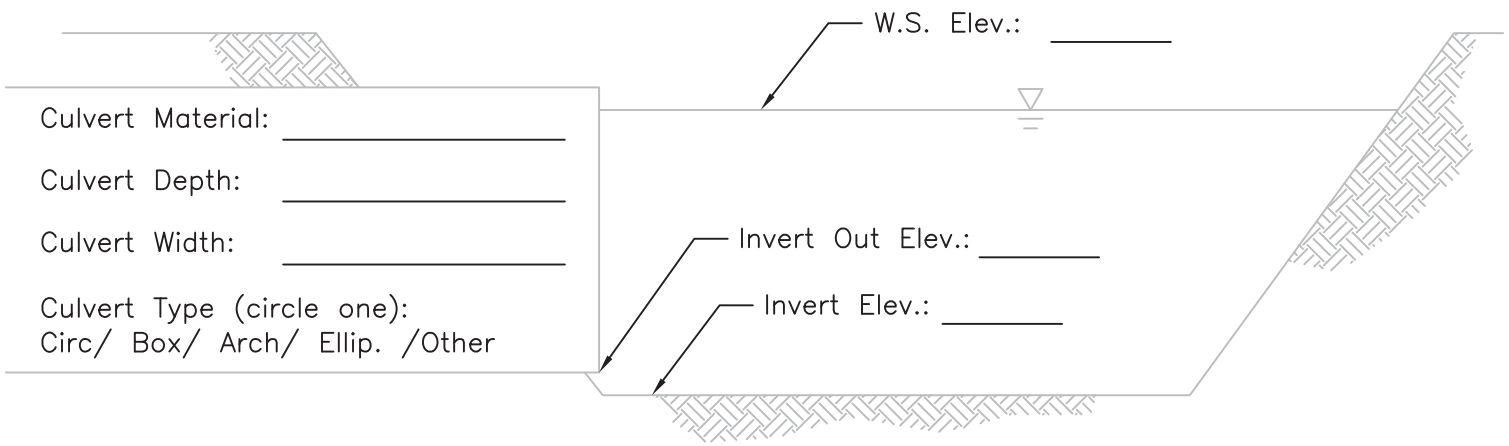
Surveyed By: _____

Location/Nearest Intersection: 17

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

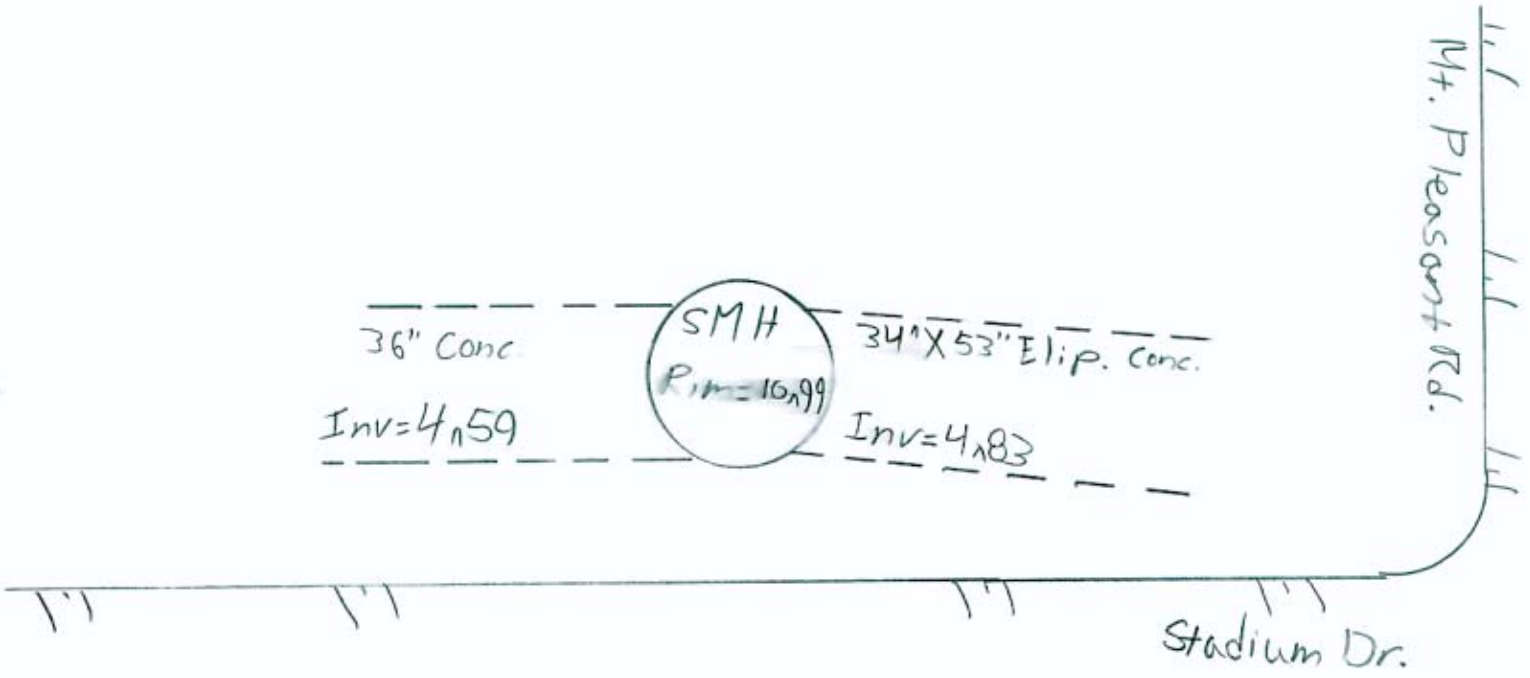


CULVERT JUNCTION/INLET CULVERT



OUTLET CULVERT LAKE

Additional description of the point location: _____


Mt. Pleasant Rd.
SMH
Rim=16.99
36" Conc
Inv=4.59
34"X53" Elip. Conc.
Inv=4.83
Stadium Dr.

#17

Project: Horse Run Watershed MDPU

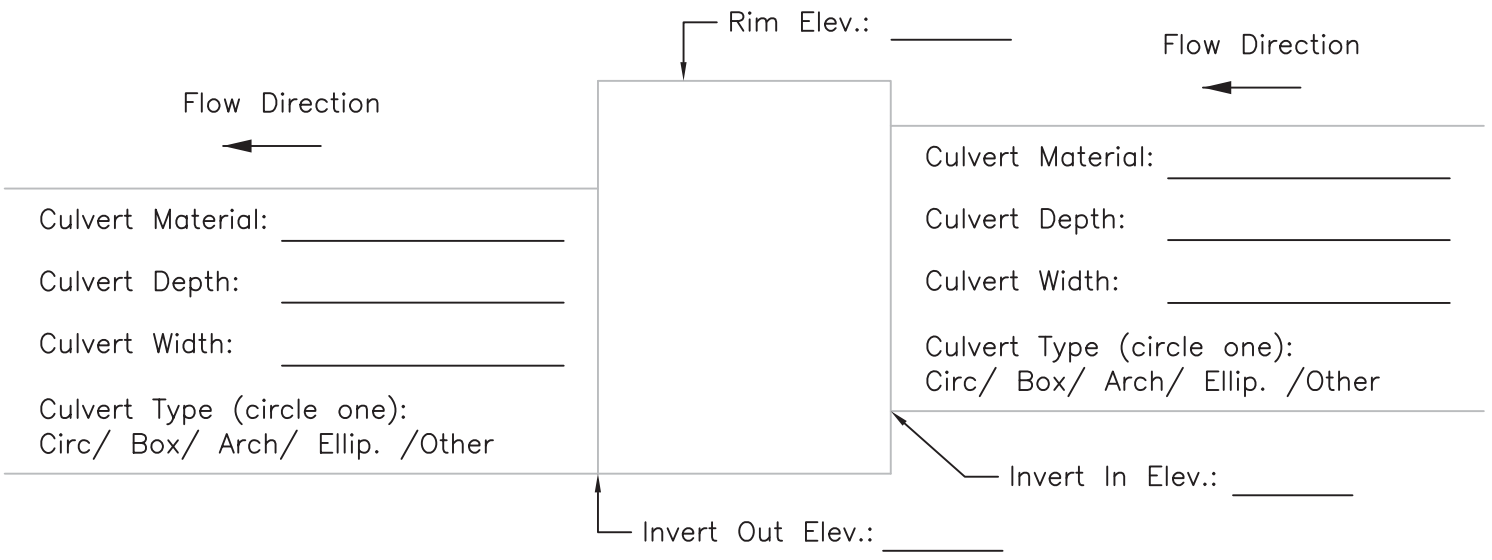
Date: _____

Node/Point #: 1176

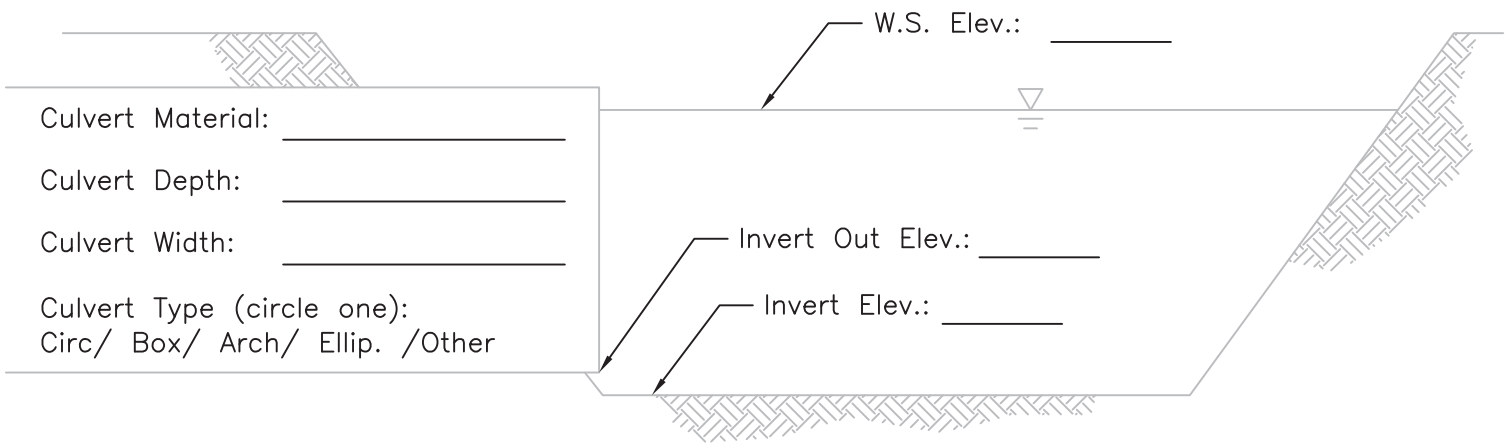
Surveyed By: _____

Location/Nearest Intersection: 18

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

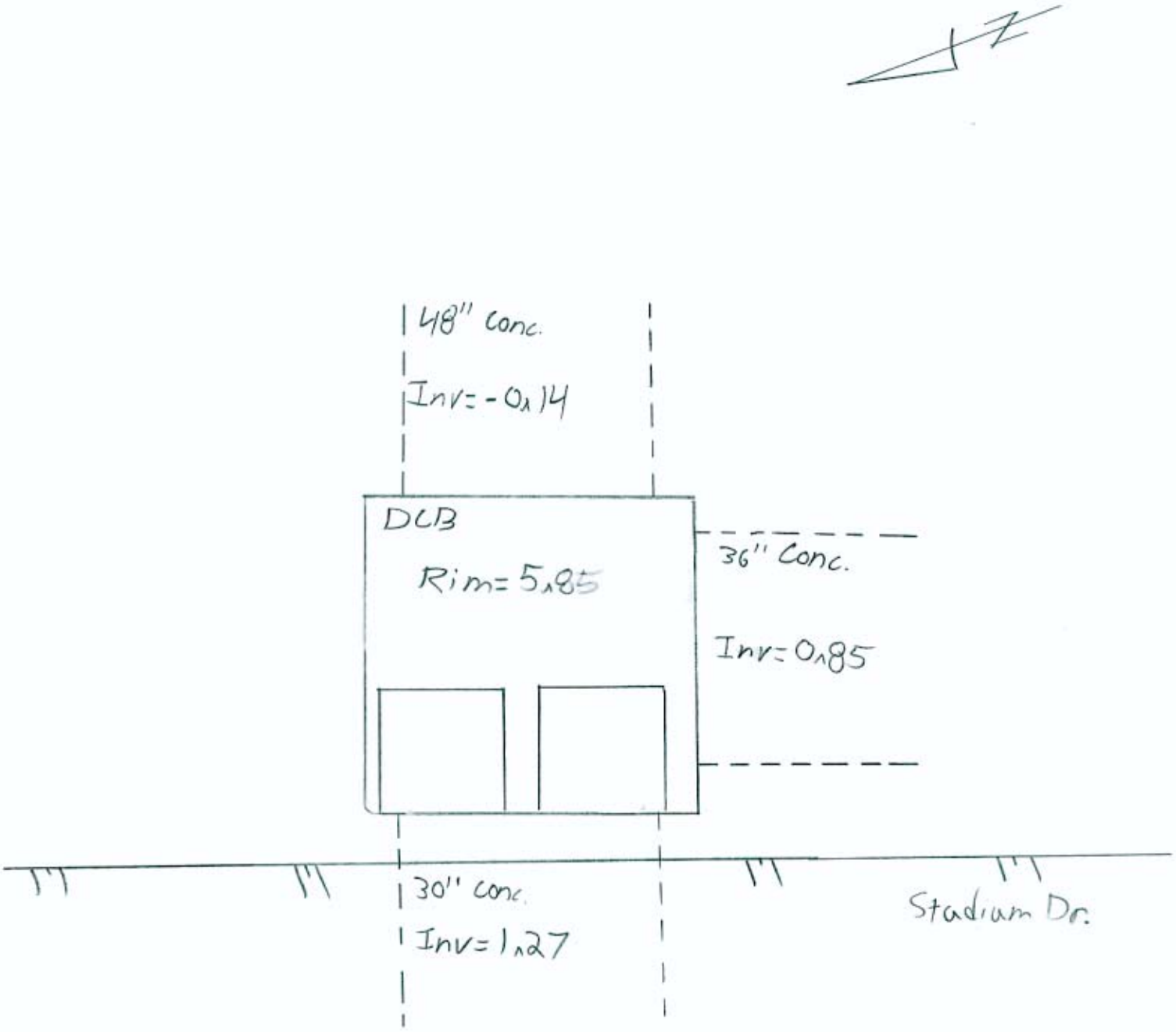


CULVERT JUNCTION/INLET CULVERT

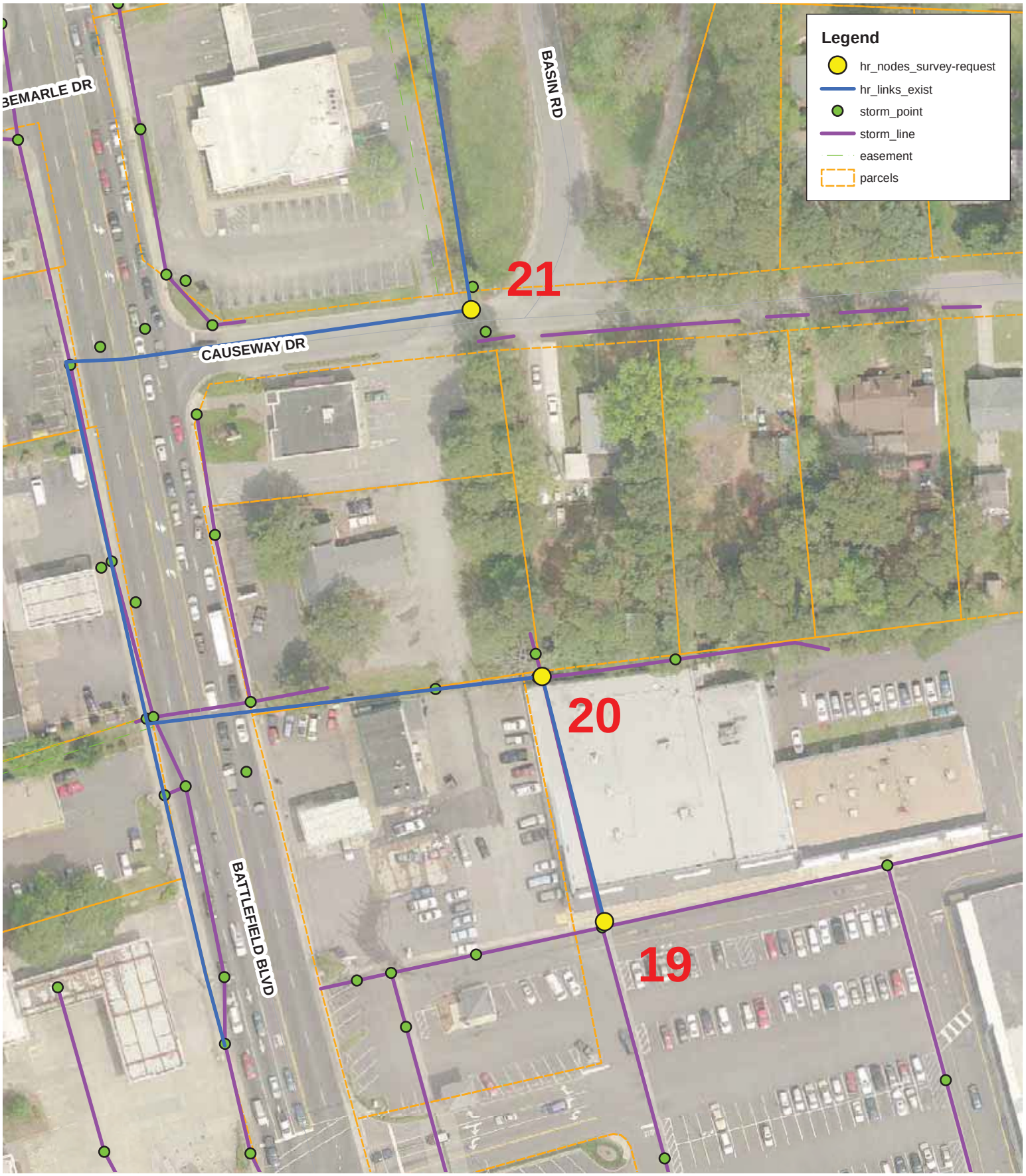


OUTLET CULVERT LAKE

Additional description of the point location: _____


48" Conc.
Inv=-0.14
DCB
Rim=5.85
36" Conc.
Inv=0.85
30" Conc.
Inv=1.27
Stadium Dr.

#18



0 20 40 80 120 160 Feet

Aerial Imagery @ 2008 Commonwealth of Virginia

See GIS for Complete Details

Survey Locations 19, 20, & 21

Project: Horse Run Watershed MDPU

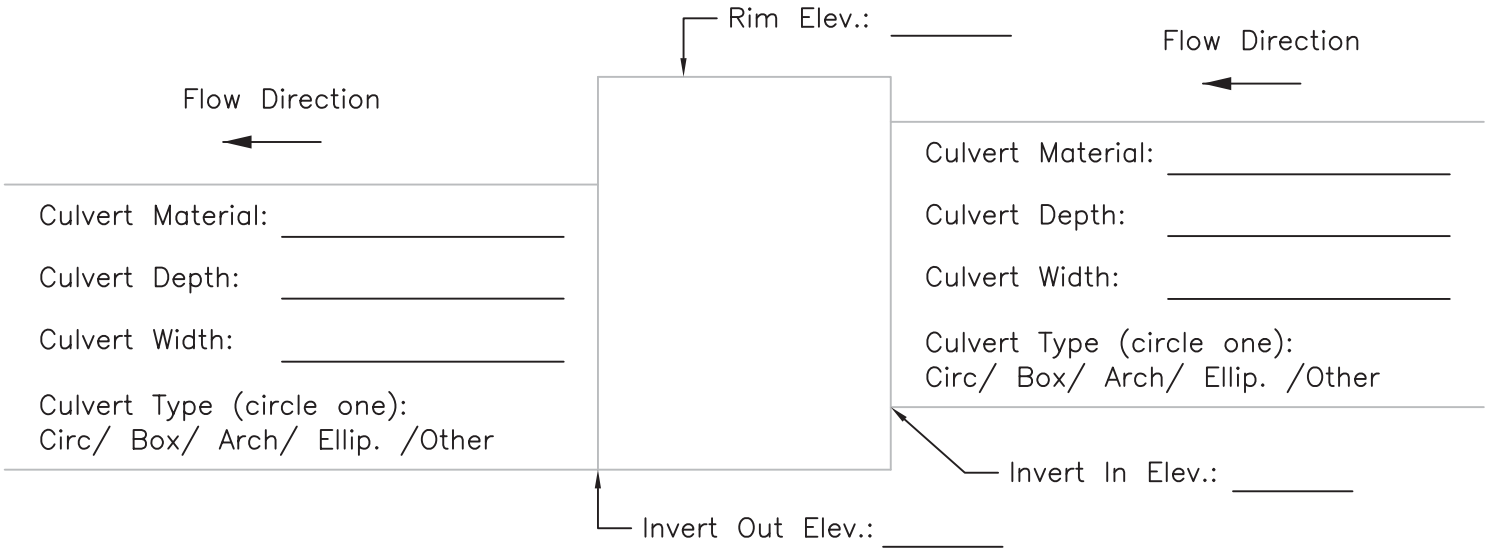
Date: _____

Node/Point #: 1354

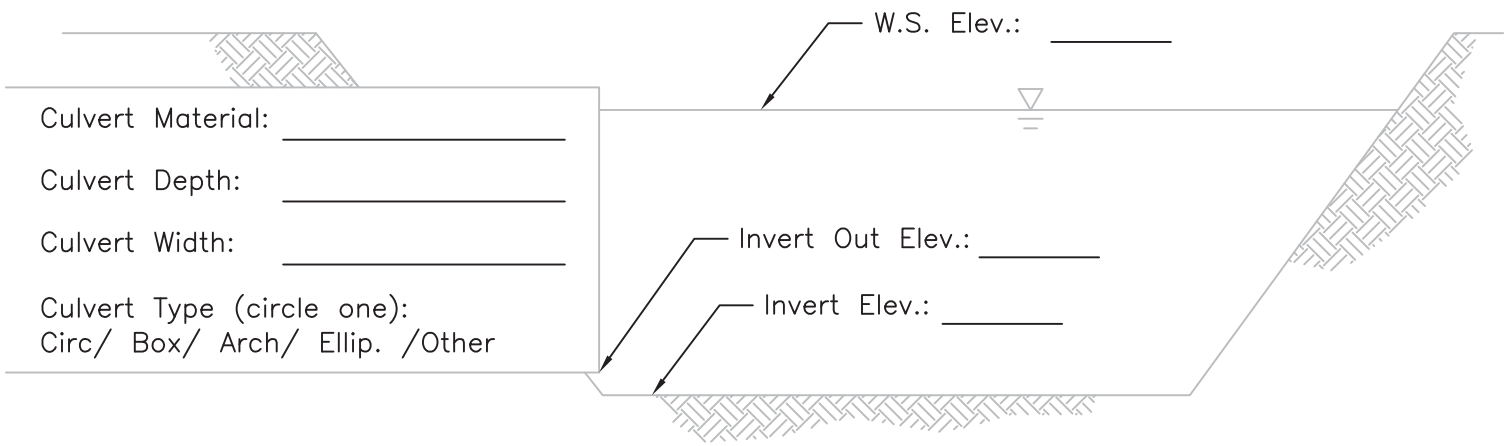
Surveyed By: _____

Location/Nearest Intersection: 19

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

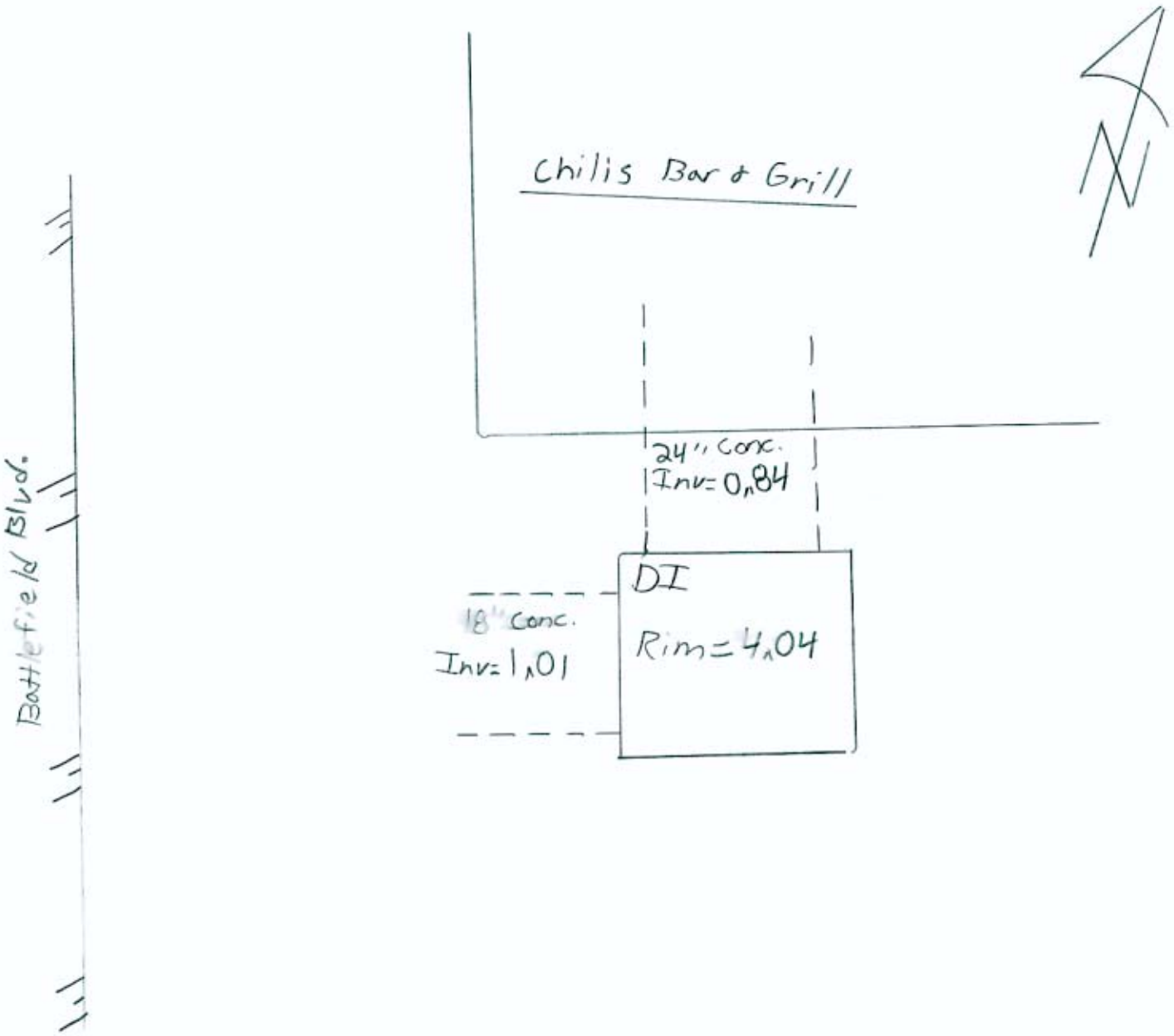


CULVERT JUNCTION/INLET CULVERT



OUTLET CULVERT LAKE

Additional description of the point location: _____


Chilis Bar & Grill
Battlefield Blvd.
24" Conc.
Inv= 0,84
DI
Rim= 4,04
18" Conc.
Inv= 1,01

#19

Project: Horse Run Watershed MDPU

Date: 5/17/11

Node/Point #: 1356

Surveyed By: Andrew Murray
Mike Meeklos

Location/Nearest Intersection: 20

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

Side Slope (Horz/Vert): _____

Culvert Material: _____

Culvert Depth: _____

Culvert Width: _____

Culvert Type (circle one):
Circ/ Box/ Arch/ Ellip. /Other

Culvert Invert Elev.: _____

Flow Direction (circle one): ← →

Channel Material (circle one):
Earth / Conc. / Other

Bottom Width: _____

Side Slope (Horz/Vert): _____

CULVERT

DITCH

Ground Elev.: _____

High Shoulder Elev.: 3.35

CULVERT

Low Shoulder Elev.: 1.94

24" Conc

Inv= 0.08

Ditch Invert Elev.: -0.71

Additional description of the point location:

Project: Horse Run Watershed MDPU

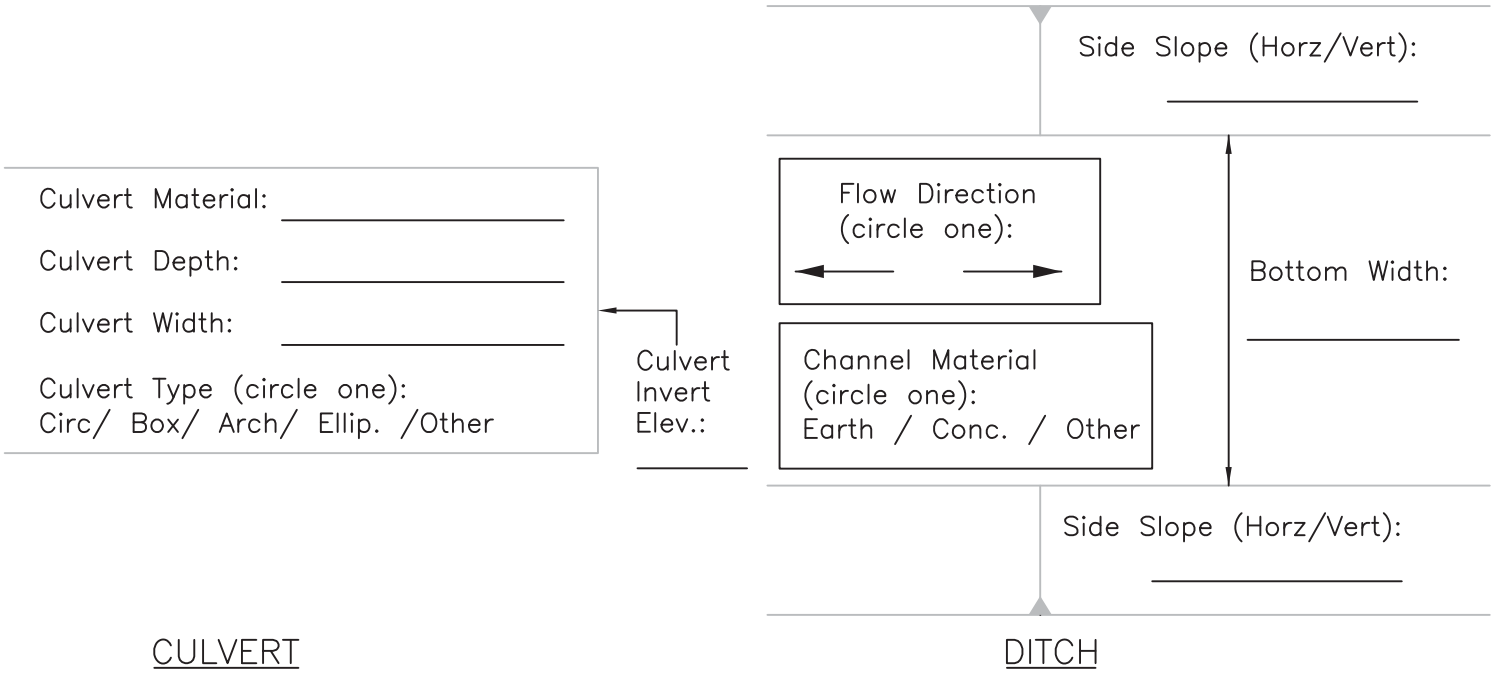
Date: _____

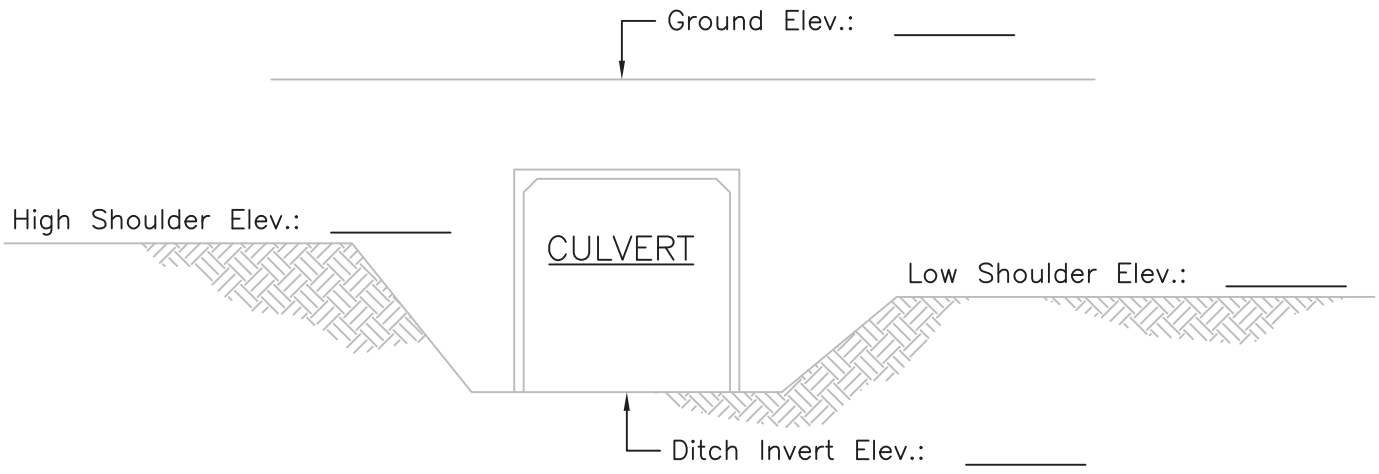
Node/Point #: 1360

Surveyed By: _____

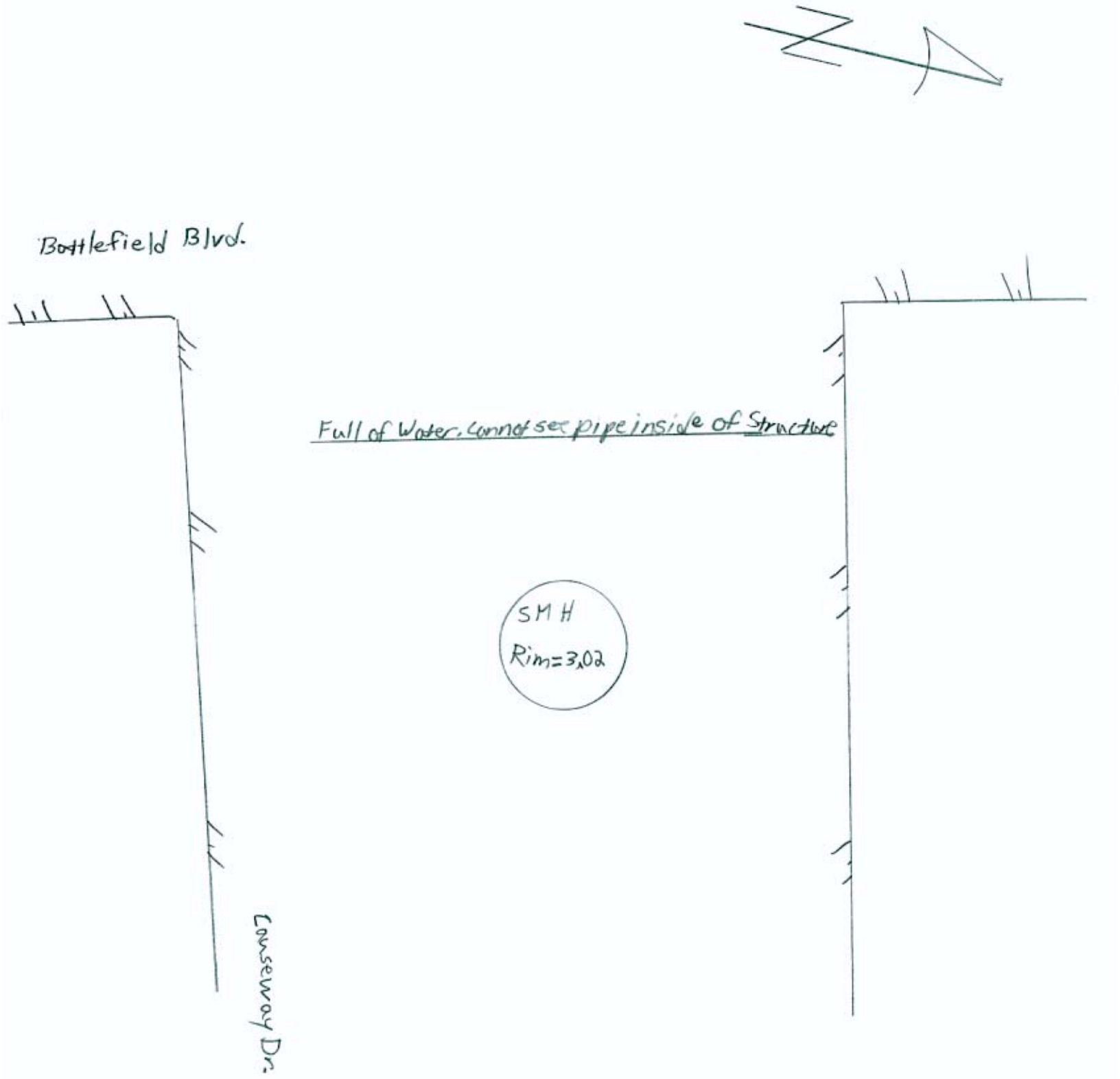
Location/Nearest Intersection: 21

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.





Additional description of the point location:


Battlefield Blvd.
Full of Water. Cannot see pipe inside of Structure
SMH
Rim=3.02
Causeway Dr.

#21

0 5 10 20 30 40
Feet

Aerial Imagery @ 2008 Commonwealth of Virginia

See GIS for Complete Details

Survey Location 22

Project: Horse Run Watershed MDPU

Node/Point #: 1370

Location/Nearest Intersection: 22

Date: 5/18/11

Surveyed By: Andrew Murray
Mike Meeking

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

Side Slope (Horz/Vert): _____

Culvert Material: _____

Culvert Depth: _____

Culvert Width: _____

Culvert Type (circle one):
Circ/ Box/ Arch/ Ellip. /Other

Flow Direction (circle one): ← →

Culvert Invert Elev.: _____

Channel Material (circle one):
Earth / Conc. / Other

Bottom Width: _____

Side Slope (Horz/Vert): _____

CULVERT

DITCH

Ground Elev.: _____

High Shoulder Elev.: 2.86

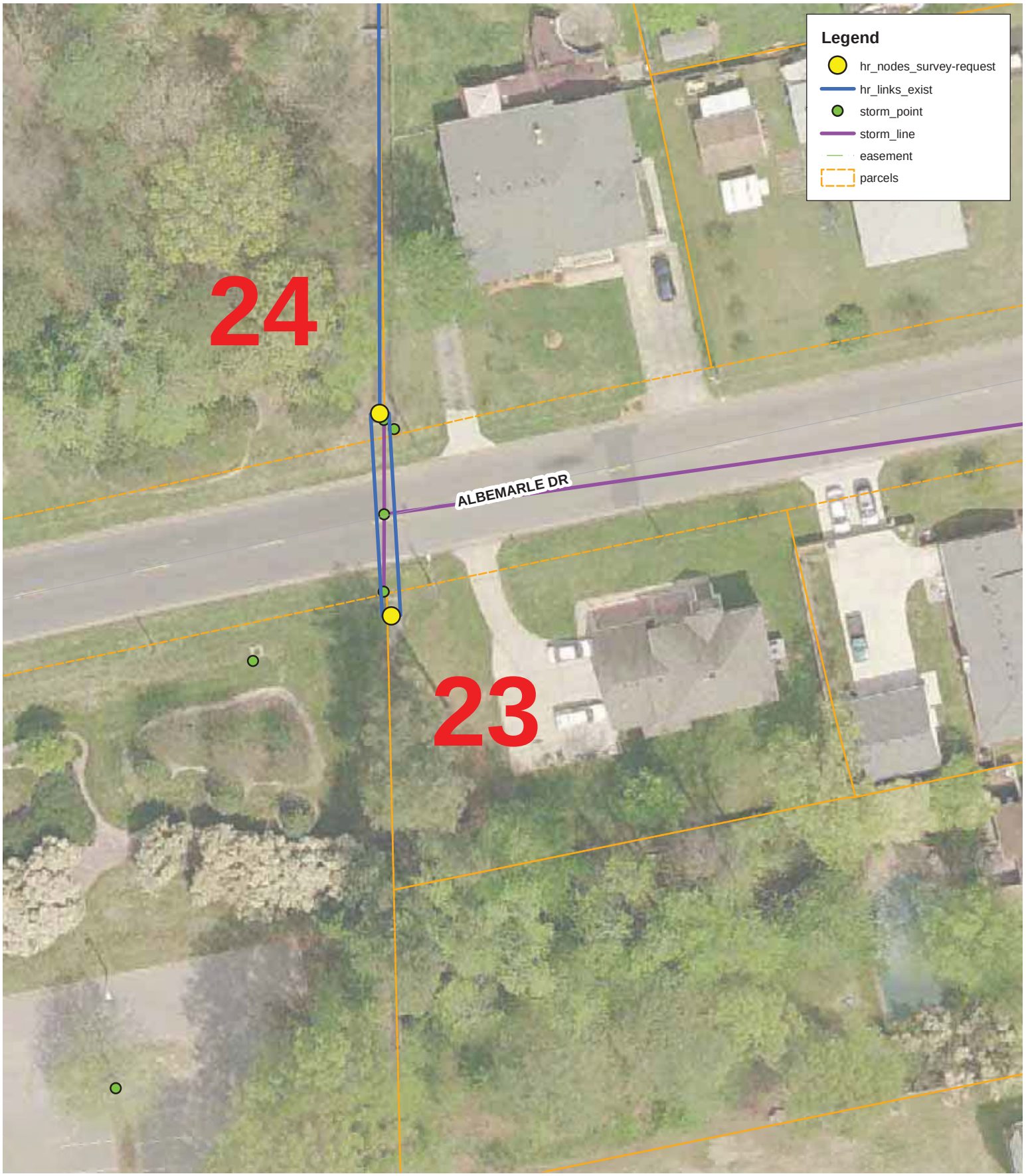
CULVERT

Low Shoulder Elev.: 2.74

(?)

Ditch Invert Elev.: -0.52

Additional description of the point location: Could not obtain pipe size or location due to high water level and trash in ditch.



0 5 10 20 30 40
Feet

Aerial Imagery @ 2008 Commonwealth of Virginia

See GIS for Complete Details

Survey Locations 23 & 24

Project: Horse Run Watershed MDPU

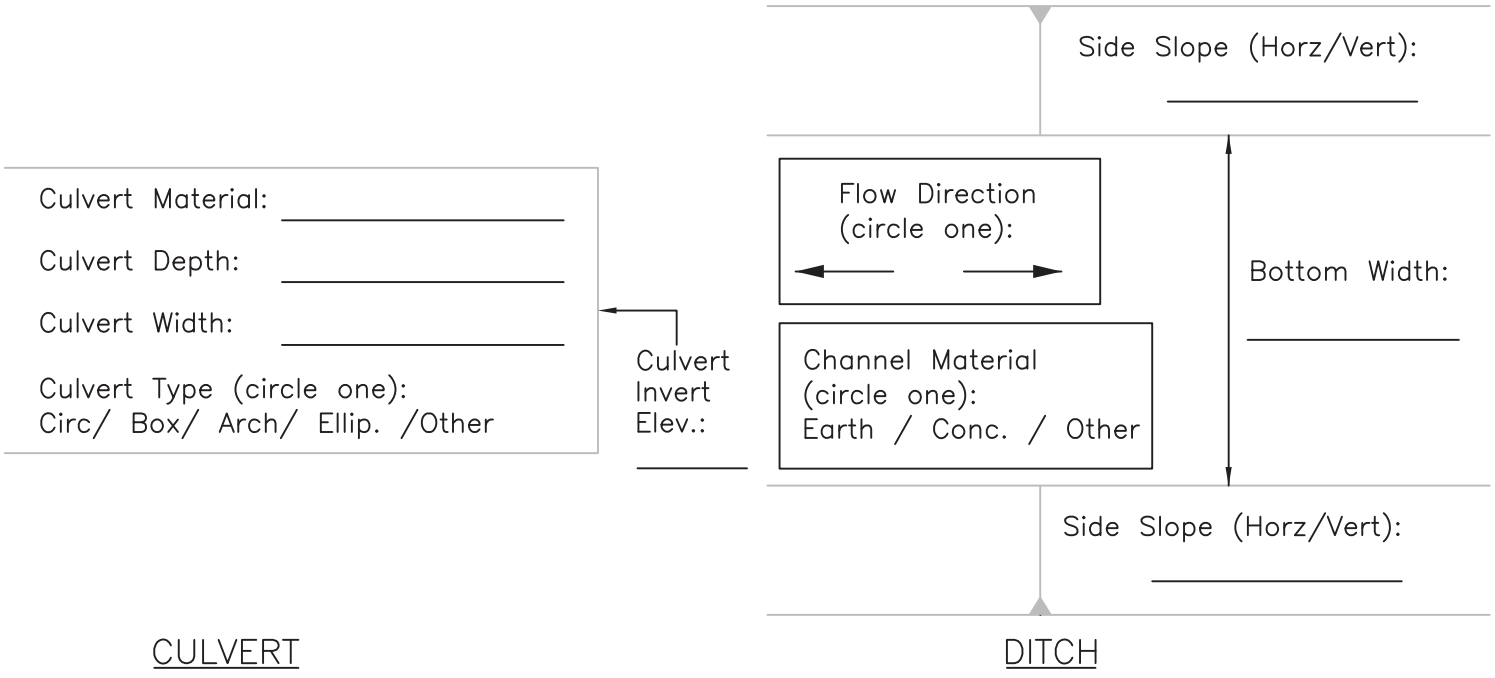
Date: _____

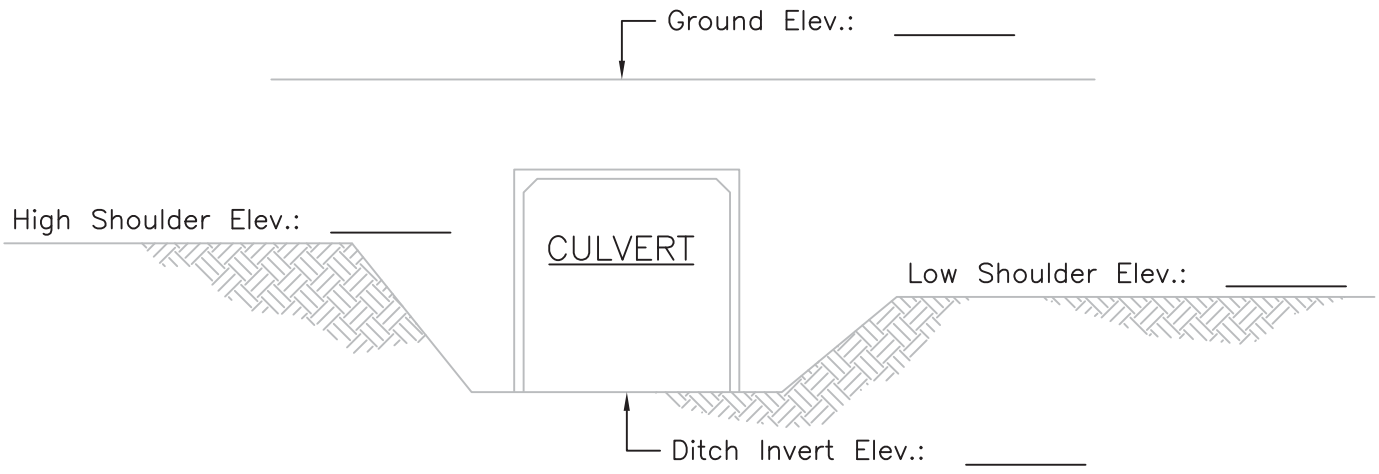
Node/Point #: 1310

Surveyed By: _____

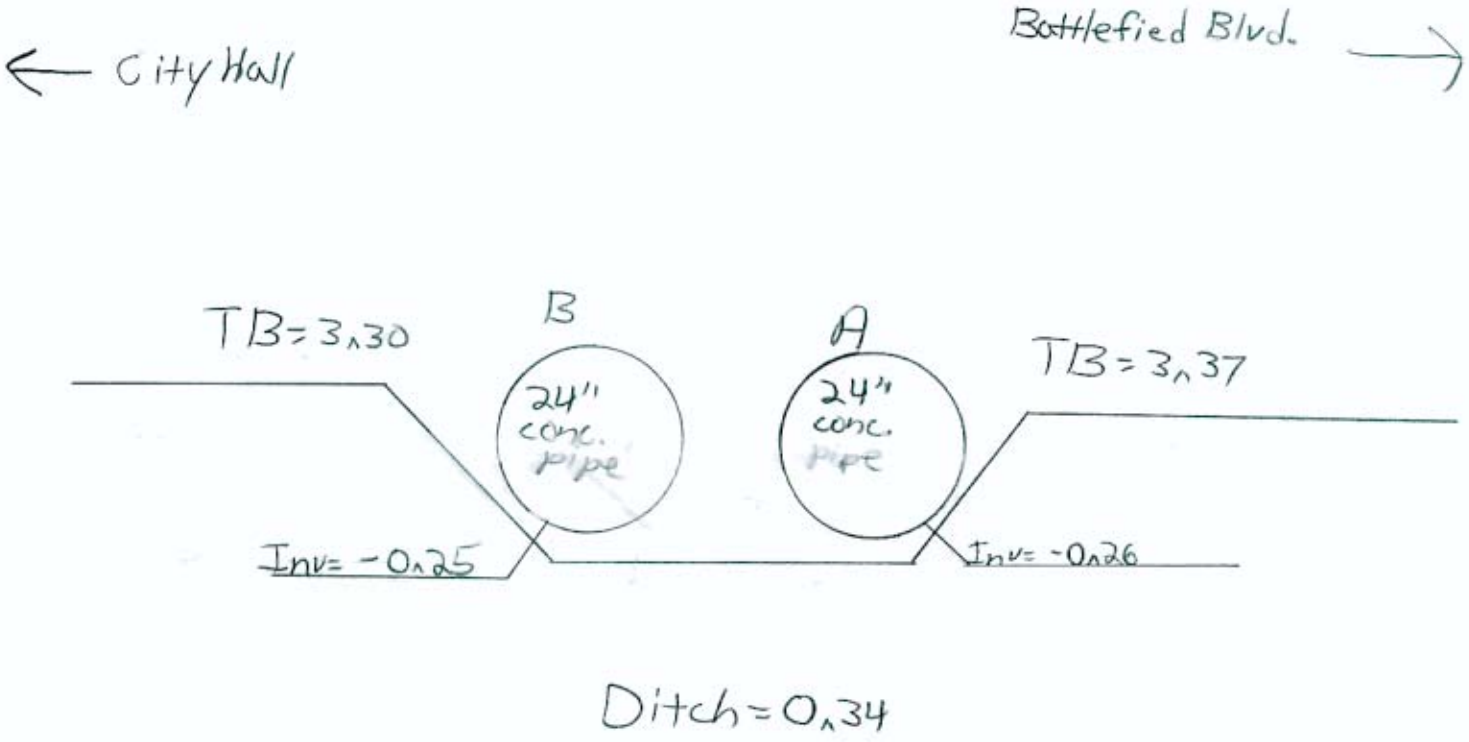
Location/Nearest Intersection: 23

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.





Additional description of the point location:


← City Hall
Battlefied Blvd. →
TB = 3.30
B
24" conc. pipe
A
24" conc. pipe
TB = 3.37
Inv = -0.25
Inv = -0.26
Ditch = 0.34

#23

Project: Horse Run Watershed MDPU

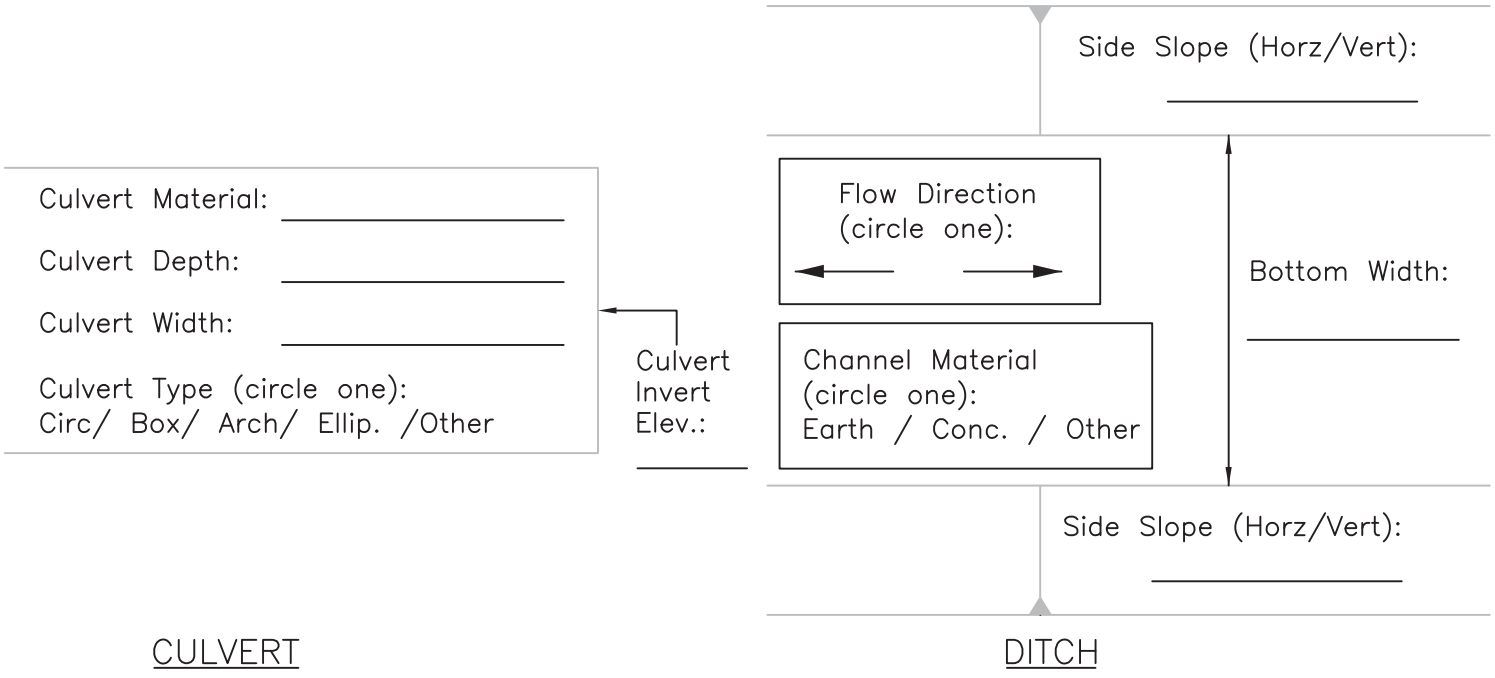
Date: _____

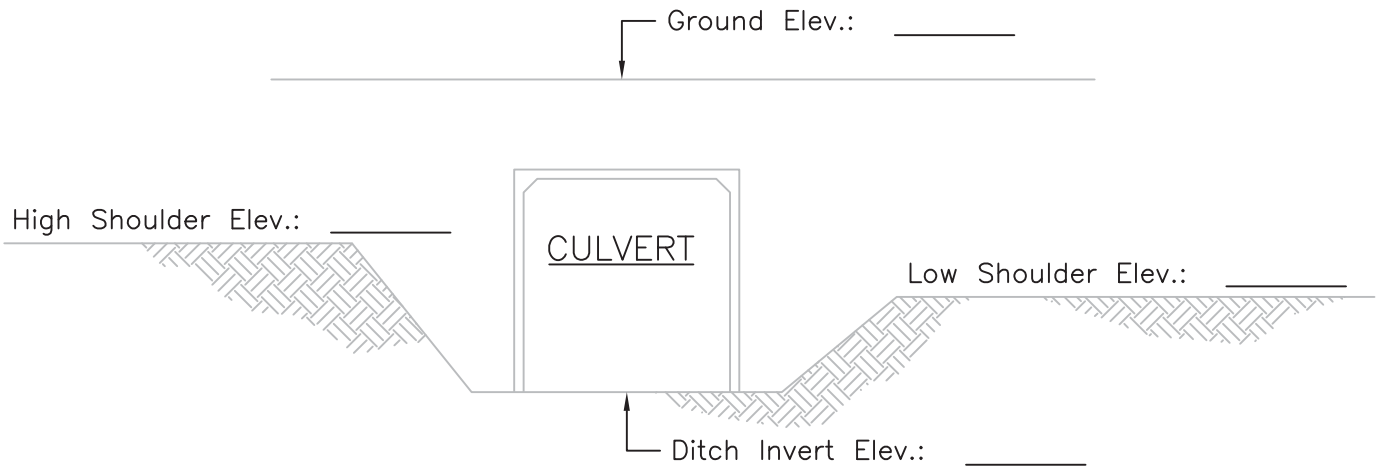
Node/Point #: 1312

Surveyed By: _____

Location/Nearest Intersection: 24

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

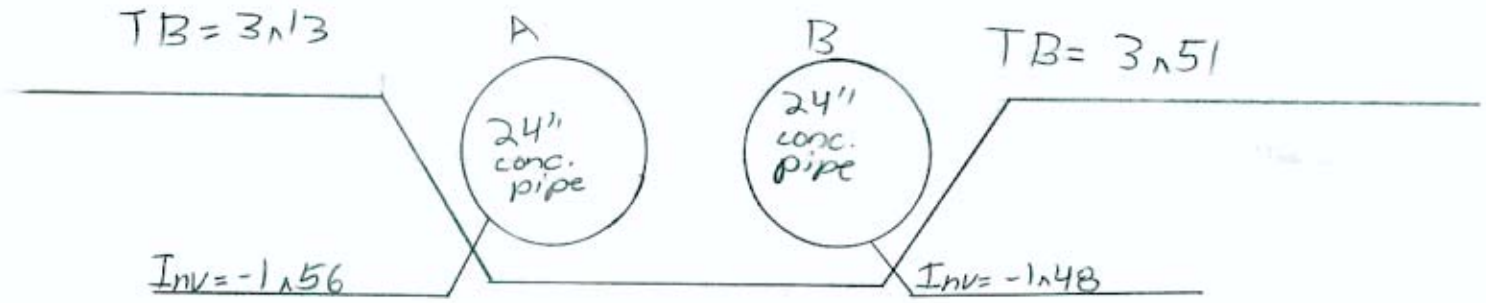




Additional description of the point location:

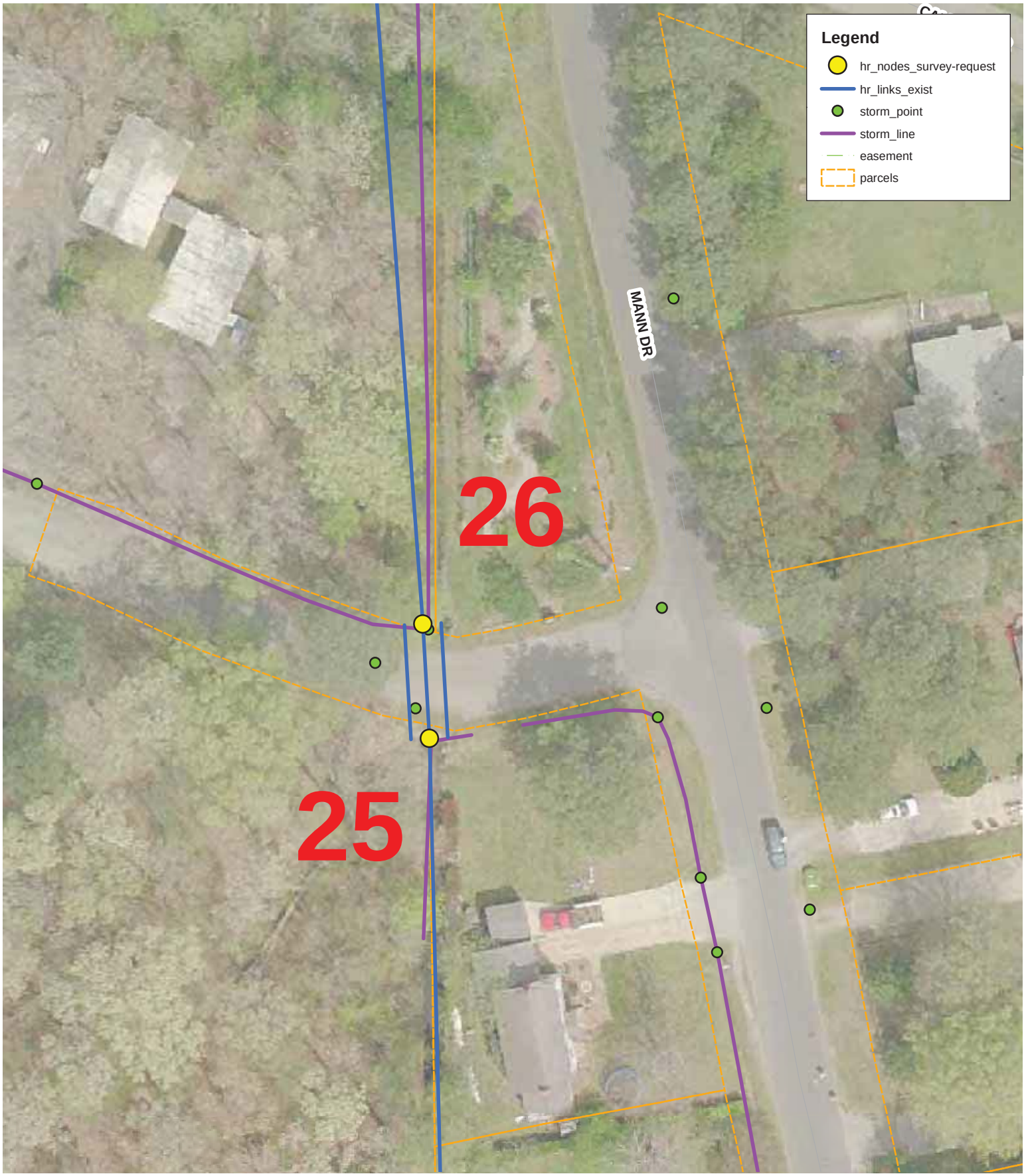
← Battlefield Blvd.

City Hall →



Ditch Inv = -0.14

#24



0 5 10 20 30 40
Feet

Aerial Imagery @ 2008 Commonwealth of Virginia

See GIS for Complete Details

Survey Locations 25 & 26

Project: Horse Run Watershed MDPU

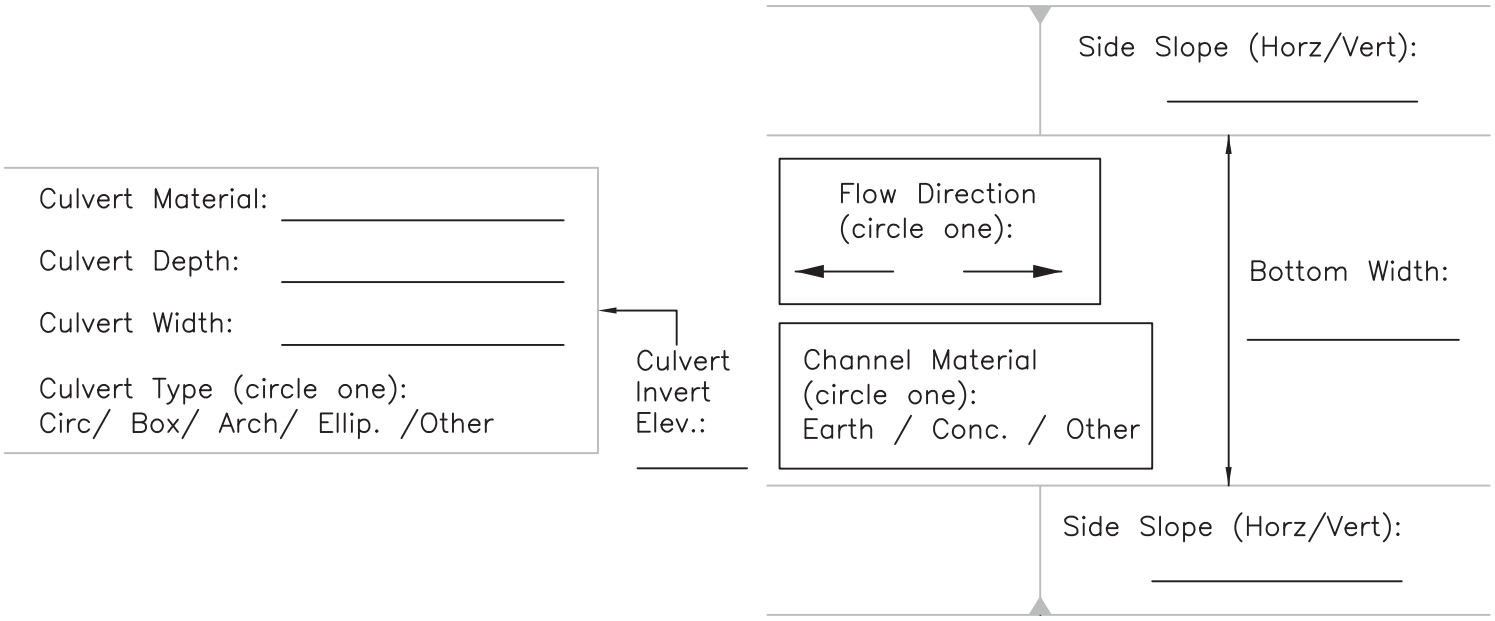
Date: _____

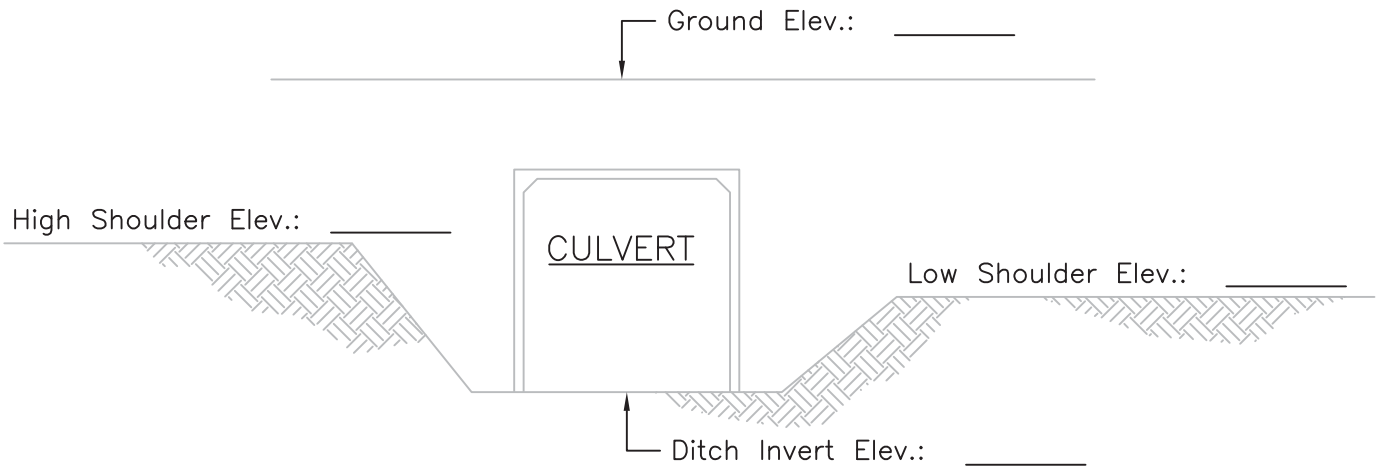
Node/Point #: 1314

Surveyed By: _____

Location/Nearest Intersection: 25

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.





Additional description of the point location:

Project: Horse Run Watershed MDPU

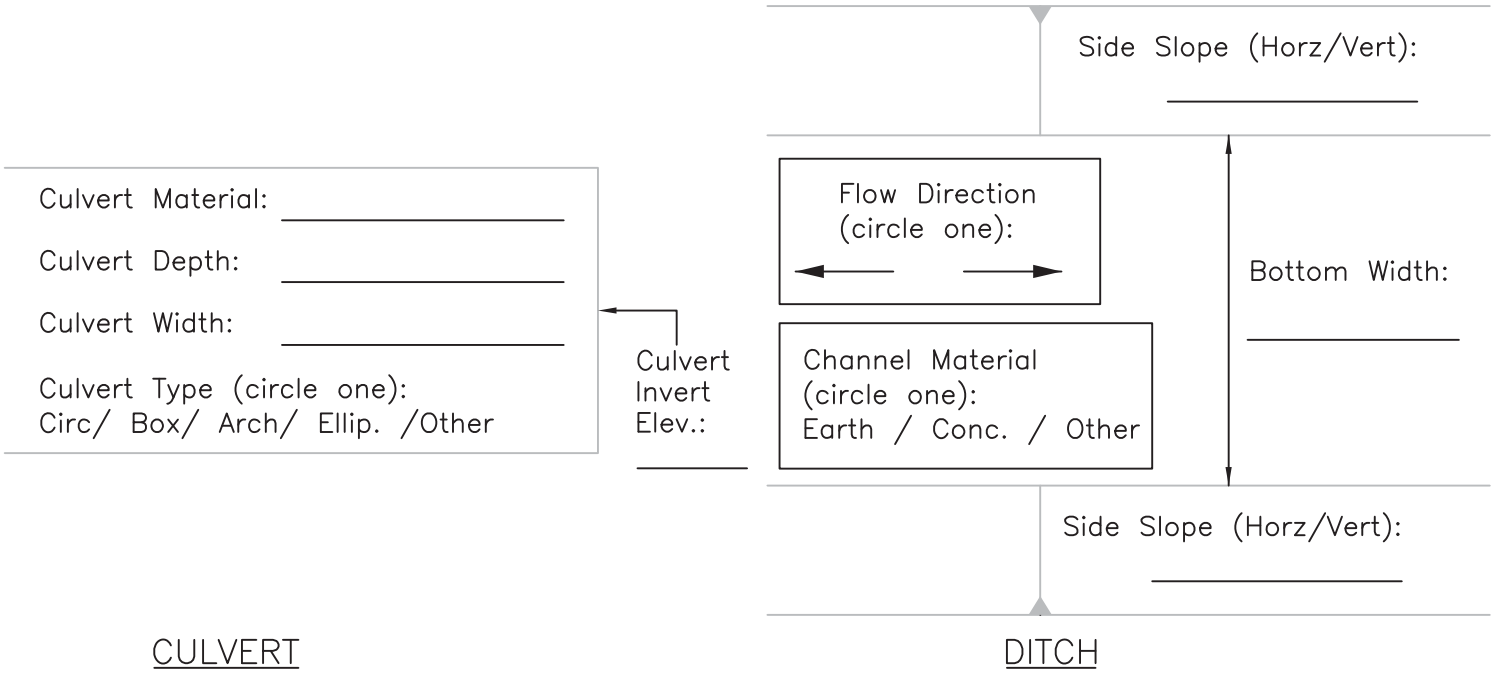
Date: _____

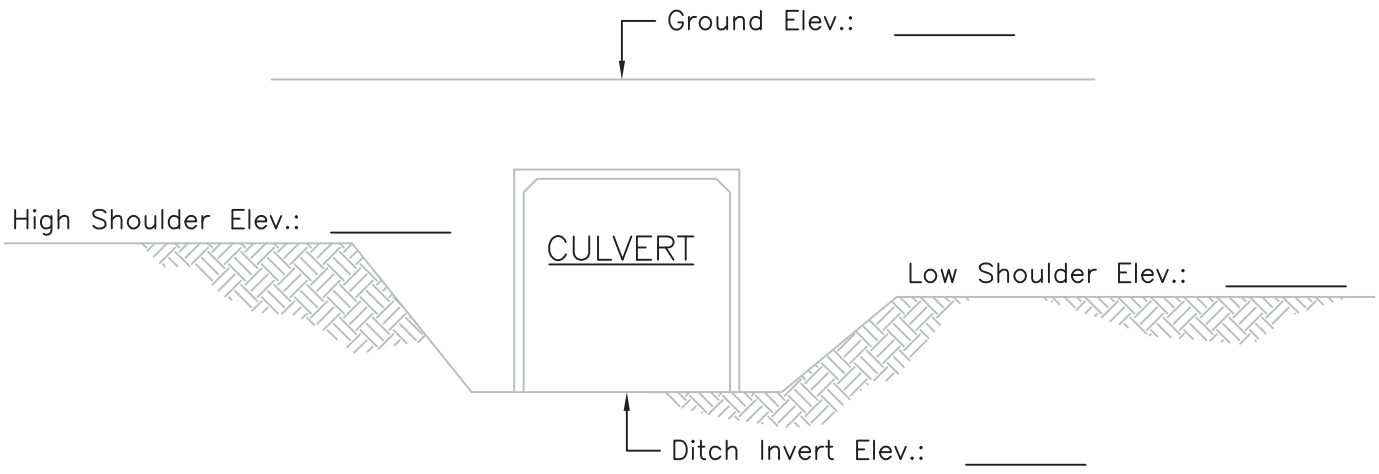
Node/Point #: 1316

Surveyed By: _____

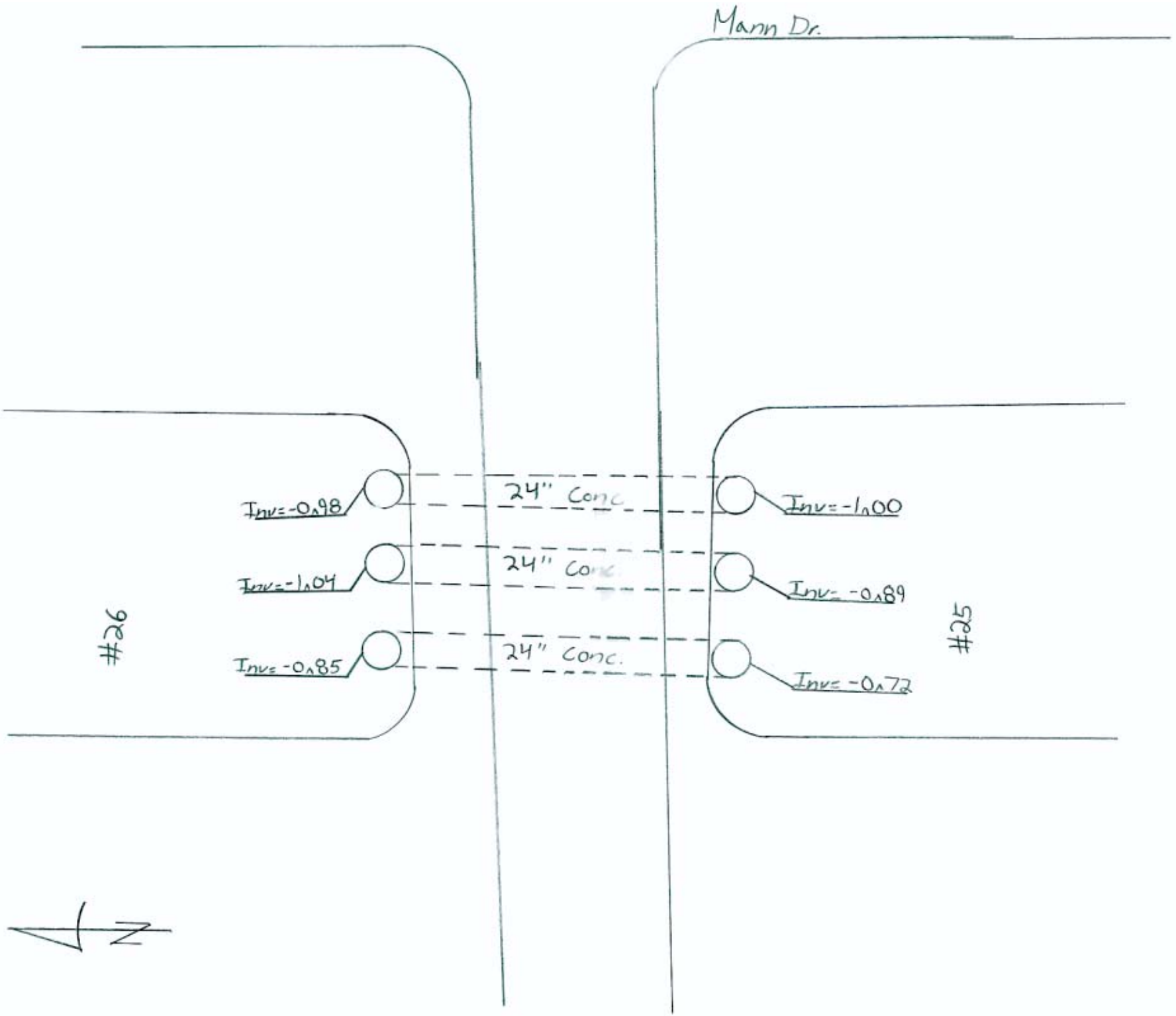
Location/Nearest Intersection: 26

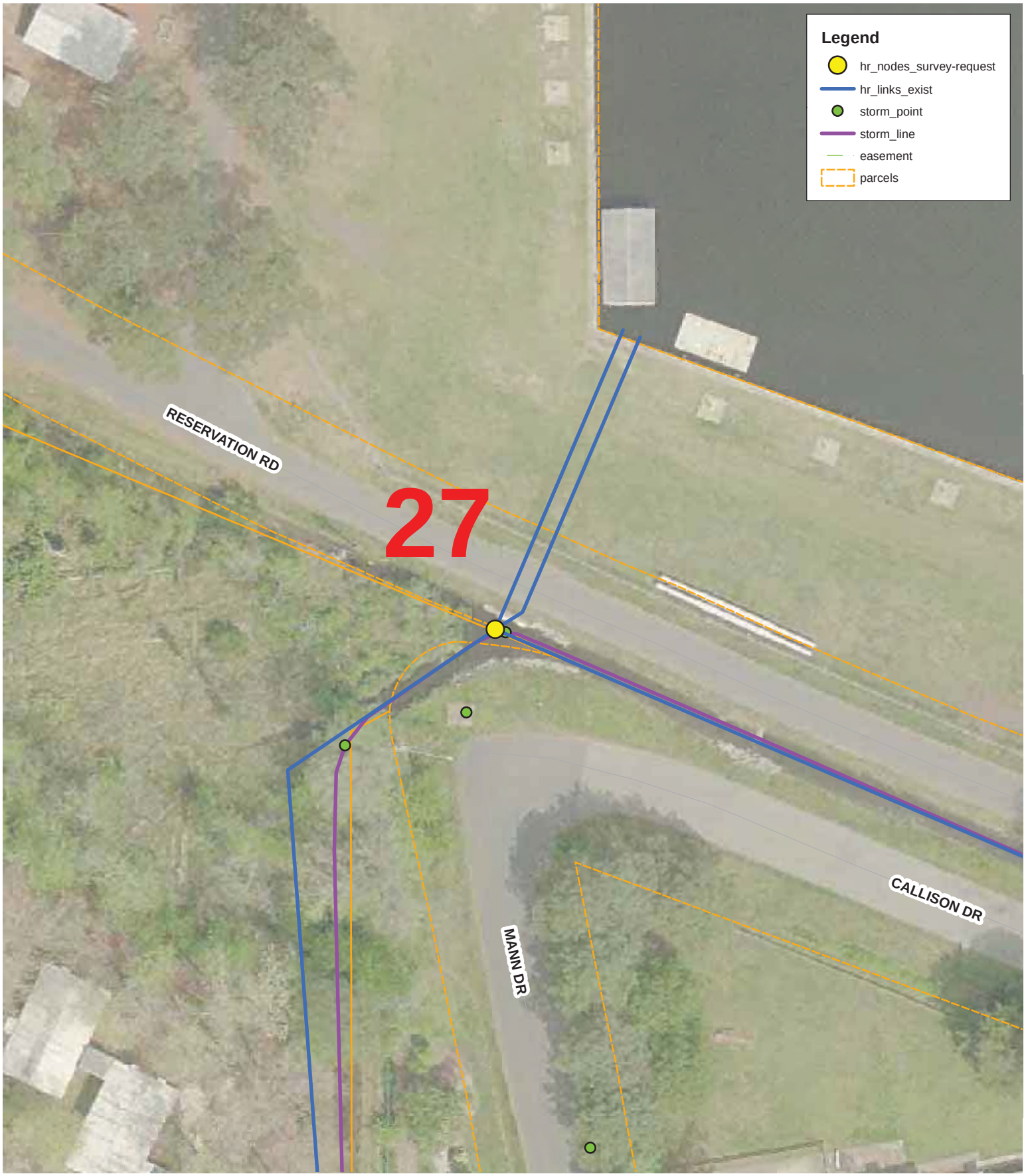
THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.





Additional description of the point location:


Mann Dr.
Inv=-0.98
24" Conc.
Inv=-1.00
Inv=-1.04
24" Conc.
Inv=-0.89
#26
#25
Inv=-0.85
24" Conc.
Inv=-0.72
N



0 5 10 20 30 40
Feet

Aerial Imagery @ 2008 Commonwealth of Virginia

See GIS for Complete Details

Survey Location 27

Project: Horse Run Watershed MDPU

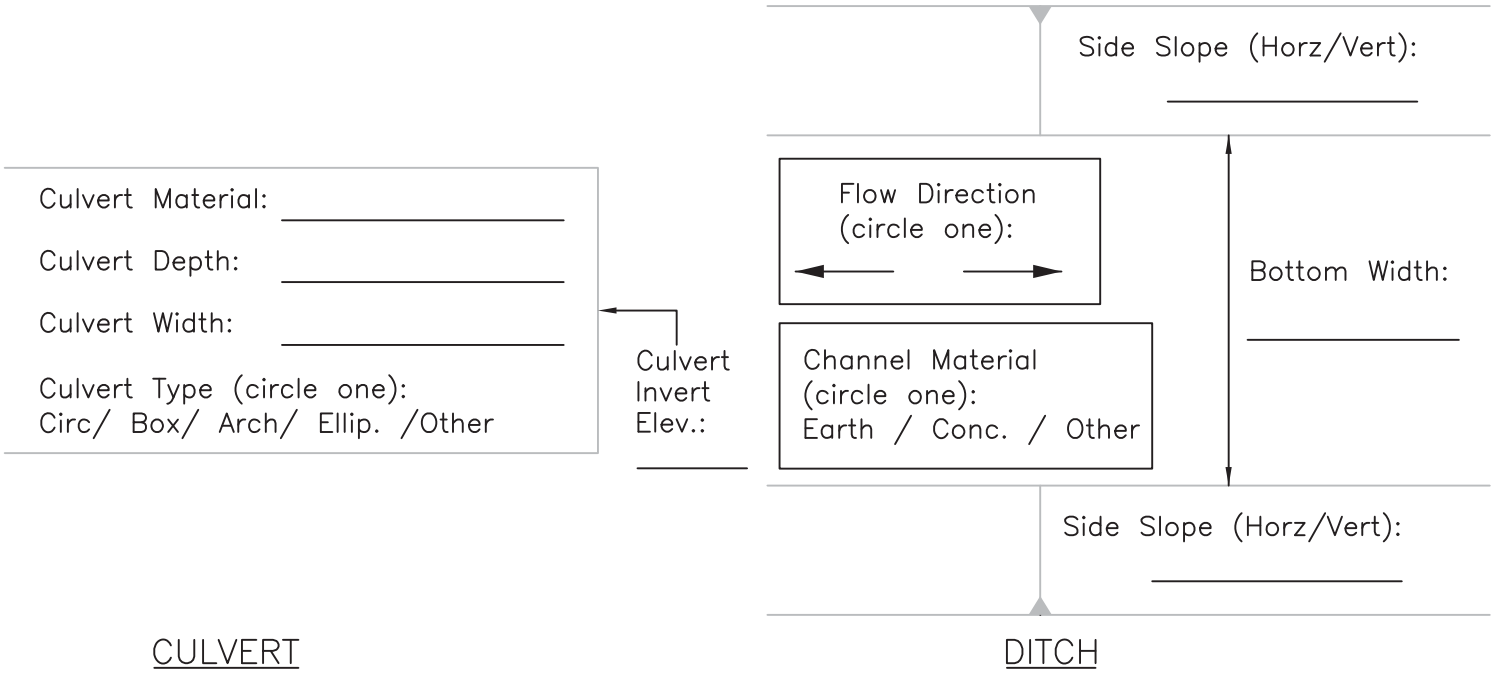
Date: _____

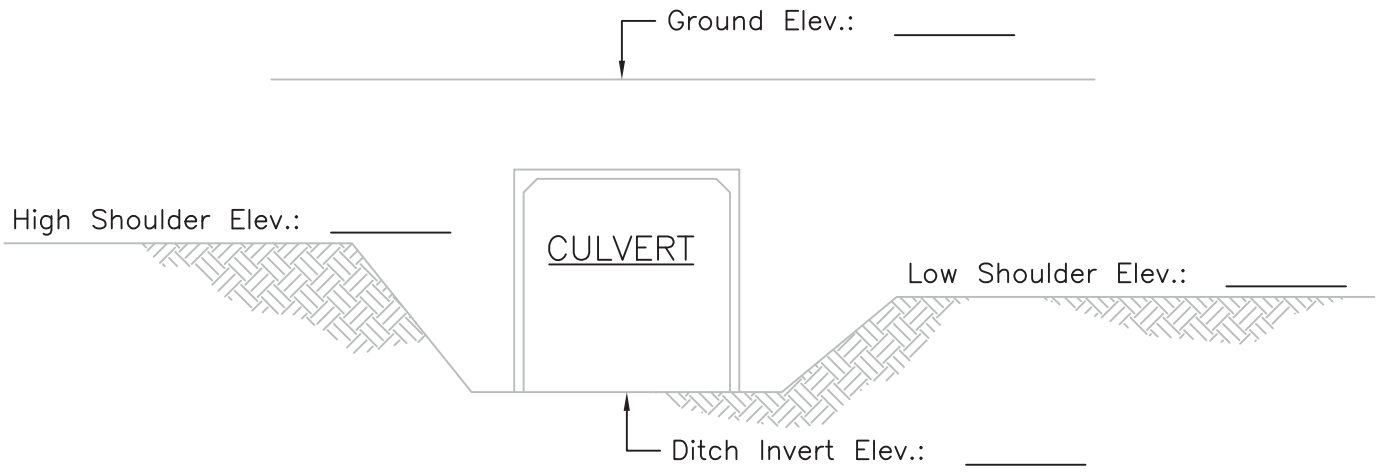
Node/Point #: 1318

Surveyed By: _____

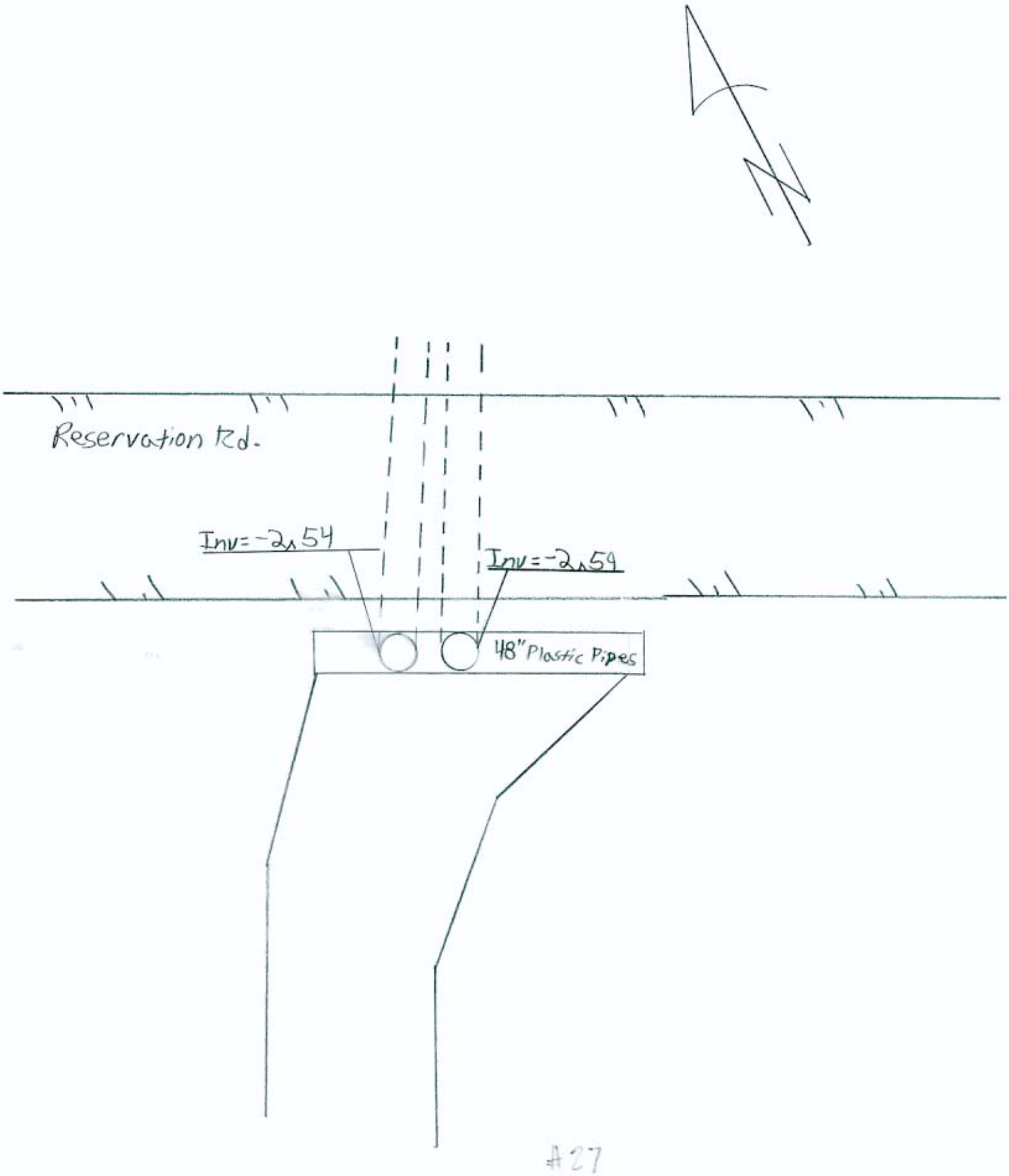
Location/Nearest Intersection: 27

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

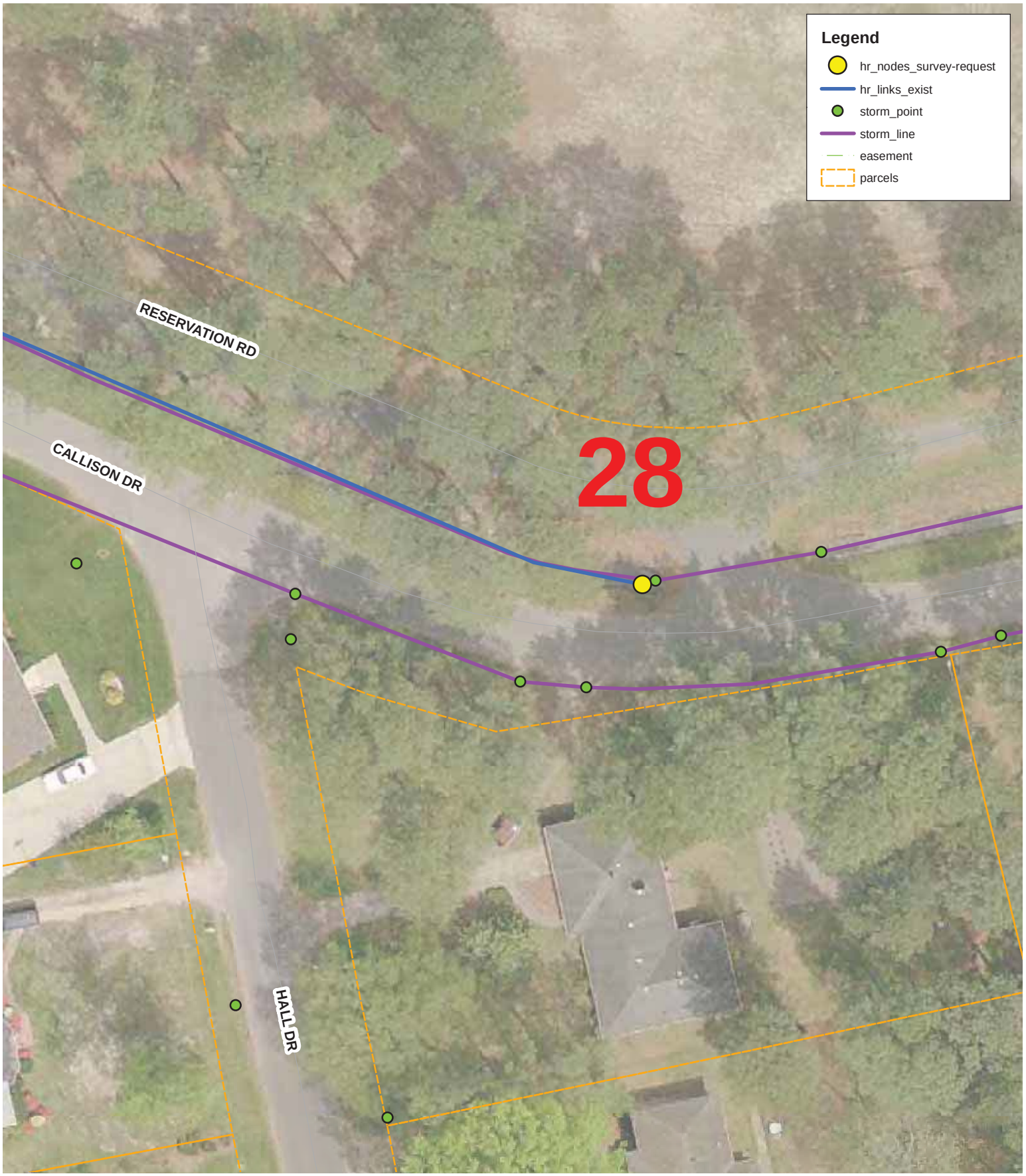




Additional description of the point location:



#27



0 5 10 20 30 40
Feet

Aerial Imagery @ 2008 Commonwealth of Virginia

See GIS for Complete Details

Survey Location 28

Project: Horse Run Watershed MDPU

Date: 5/12/11

Node/Point #: 1320

Surveyed By: Andrew Murray
Mike Meeking

Location/Nearest Intersection: 28

THIS FORM SHALL BE USED TO DESCRIBE THE CONFIGURATION, DIMENSIONS AND ELEVATIONS AT EACH POINT LOCATION.

Side Slope (Horz/Vert): _____

Culvert Material: _____

Culvert Depth: _____

Culvert Width: _____

Culvert Type (circle one):
(Circ) / Box / Arch / Ellip. / Other

Culvert Invert Elev.: _____

Flow Direction (circle one): ← →

Channel Material (circle one): Earth / Conc. / Other

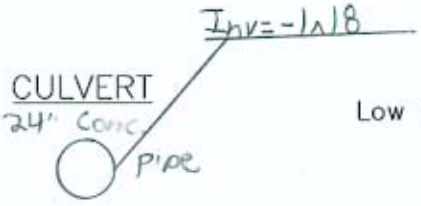
Bottom Width: _____

Side Slope (Horz/Vert): _____

CULVERT DITCH

Ground Elev.: 1^67

High Shoulder Elev.: 1^55



Low Shoulder Elev.: 1^48

Ditch Invert Elev.: -1^20

Additional description of the point location: Begining of pipe is on the west side of the entrance to Reservation Rd. off of Callison Dr.