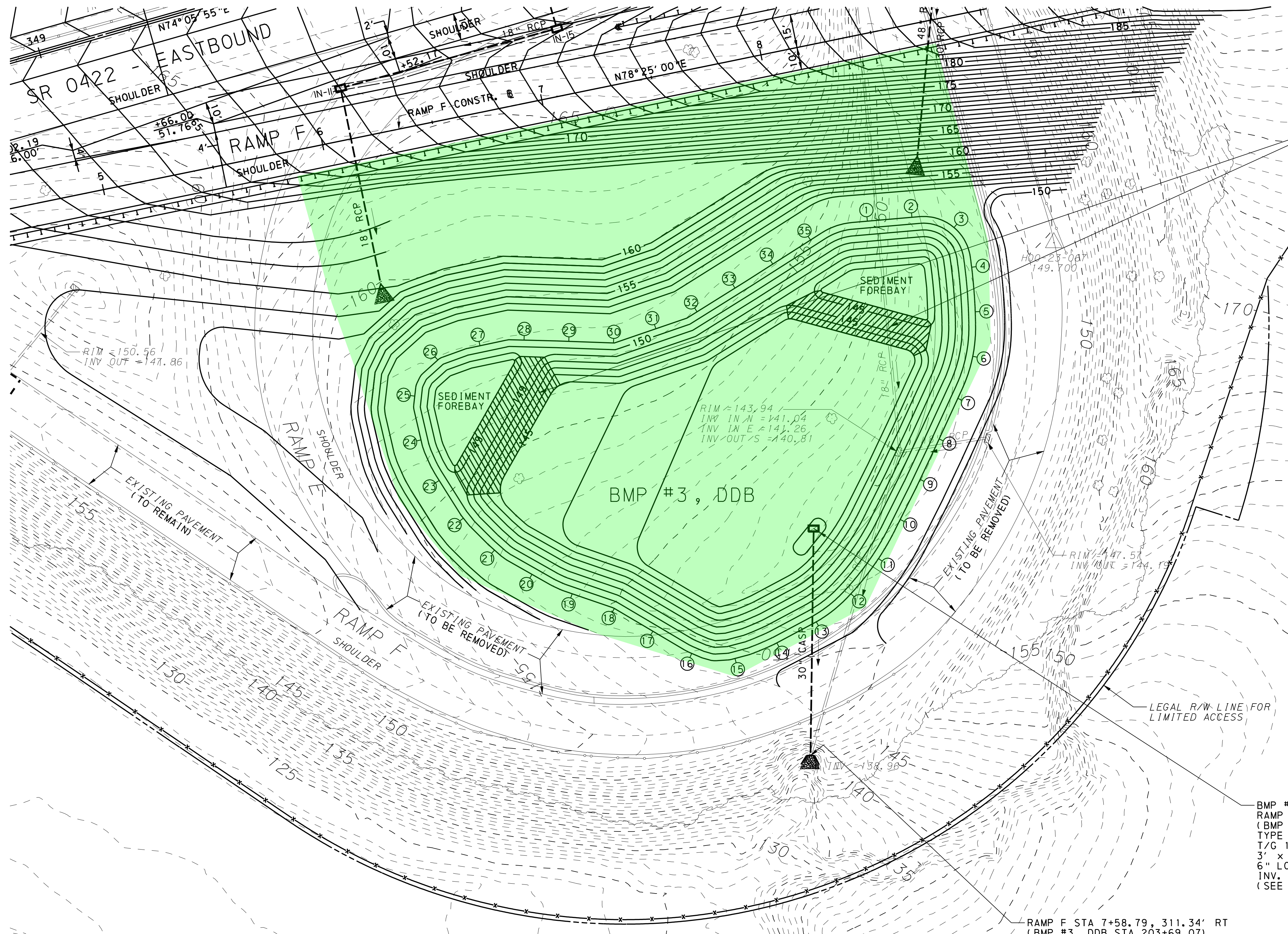


POST CONSTRUCTION STORMWATER MANAGEMENT PLAN (PCSM)

0640 BDD 016

1/4/2012
2:18:10 PM



INSTALL EROSION CONTROL
REVEGETATION MAT

BMP #3, DDB COORDINATES (RAMP F BASELINE)

①	STA 8+31.63 82.39 RT	⑲	STA 6+68.93 219.07 RT
②	STA 8+51.49 84.69 RT	⑳	STA 6+53.08 206.96 RT
③	STA 8+69.01 92.93 RT	㉑	STA 6+38.86 193.00 RT
④	STA 8+73.16 111.90 RT	㉒	STA 6+28.08 176.19 RT
⑤	STA 8+70.73 131.75 RT	㉓	STA 6+20.89 157.54 RT
⑥	STA 8+65.65 151.03 RT	㉔	STA 6+16.54 138.13 RT
⑦	STA 8+55.33 168.09 RT	㉕	STA 6+17.76 118.36 RT
⑧	STA 8+43.50 184.22 RT	㉖	STA 6+31.09 104.62 RT
⑨	STA 8+31.53 200.24 RT	㉗	STA 6+50.83 102.17 RT
⑩	STA 8+19.24 216.02 RT	㉘	STA 6+70.65 103.65 RT
⑪	STA 8+06.21 231.17 RT	㉙	STA 6+90.12 108.24 RT
⑫	STA 7+90.97 244.09 RT	㉚	STA 7+09.56 112.95 RT
⑬	STA 7+73.31 253.29 RT	㉛	STA 7+29.39 110.53 RT
⑭	STA 7+54.13 258.97 RT	㉜	STA 7+48.93 106.79 RT
⑮	STA 7+34.42 262.03 RT	㉝	STA 7+67.67 99.81 RT
⑯	STA 7+15.92 255.94 RT	㉞	STA 7+86.37 92.70 RT
⑰	STA 7+00.93 242.73 RT	㉟	STA 8+05.04 85.54 RT
⑱	STA 6+86.11 229.30 RT		

BMP #3, DDB GENERAL NOTES

- STORMWATER MANAGEMENT COMPONENTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH PENNDOT PUBLICATION 408/2011 SPECIFICATIONS.
- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- DETAILS OTHER THAN THOSE INDICATED ARE ON THE FOLLOWING STANDARD PENNDOT DRAWINGS:

STANDARD DRAWING	DATE APPROVED
RC-31M	06-01-2010
RC-45M	06-01-2010
RC-46M	06-01-2010
- PERMANENT SEEDING FOR ALL BASIN AREAS BELOW THE 10-YEAR WSEL (ELEVATION - 144.97) TO CONSIST OF FORMULA D. REMAINDER OF POND TO BE SEEDING WITH PERMANENT SEEDING AS SPECIFIED ON ROADWAY CONSTRUCTION PLANS.

BMP #3, DDB BASIN OUTLET STRUCTURE
RAMP F STA 7+80.81, 212.19' RT
(BMP #3, DDB STA 202+67.58)
TYPE M INLET
T/G 148.00'
3' x 3' SQUARE ORIFICE INV 143.00'
6" LOW FLOW ORIFICE INV. 142.00'
INV. OUT 142.00'
(SEE SHEET 10 OF 10 FOR DETAIL)

RAMP F STA 7+58.79, 311.34' RT
(BMP #3, DDB STA 203+69.07)
30" D-W ENDWALL
INV. 139.00'
(SEE ROCK OUTLET PROTECTION SCHEDULE FOR APRON DETAILS, THIS SHEET)

0 25 50 FEET
HORIZONTAL

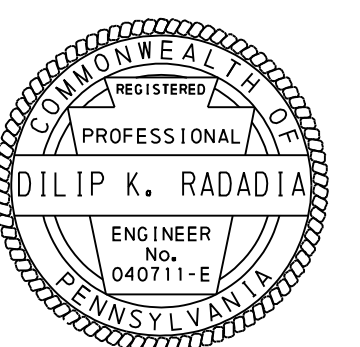
LEGEND

--- 150 ---	EXISTING MAJOR CONTOURS
--- 155 ---	EXISTING MINOR CONTOURS
---	EXISTING EDGE OF PAVEMENT
---	EXISTING STORMWATER PIPES
— 150 —	PROPOSED CONTOURS
---	PROPOSED PIPES

-Green shaded area is limit of maintenance work area.
-Access VIA roadway shoulder.

BMP #3, DDB ROCK OUTLET PROTECTION SCHEDULE

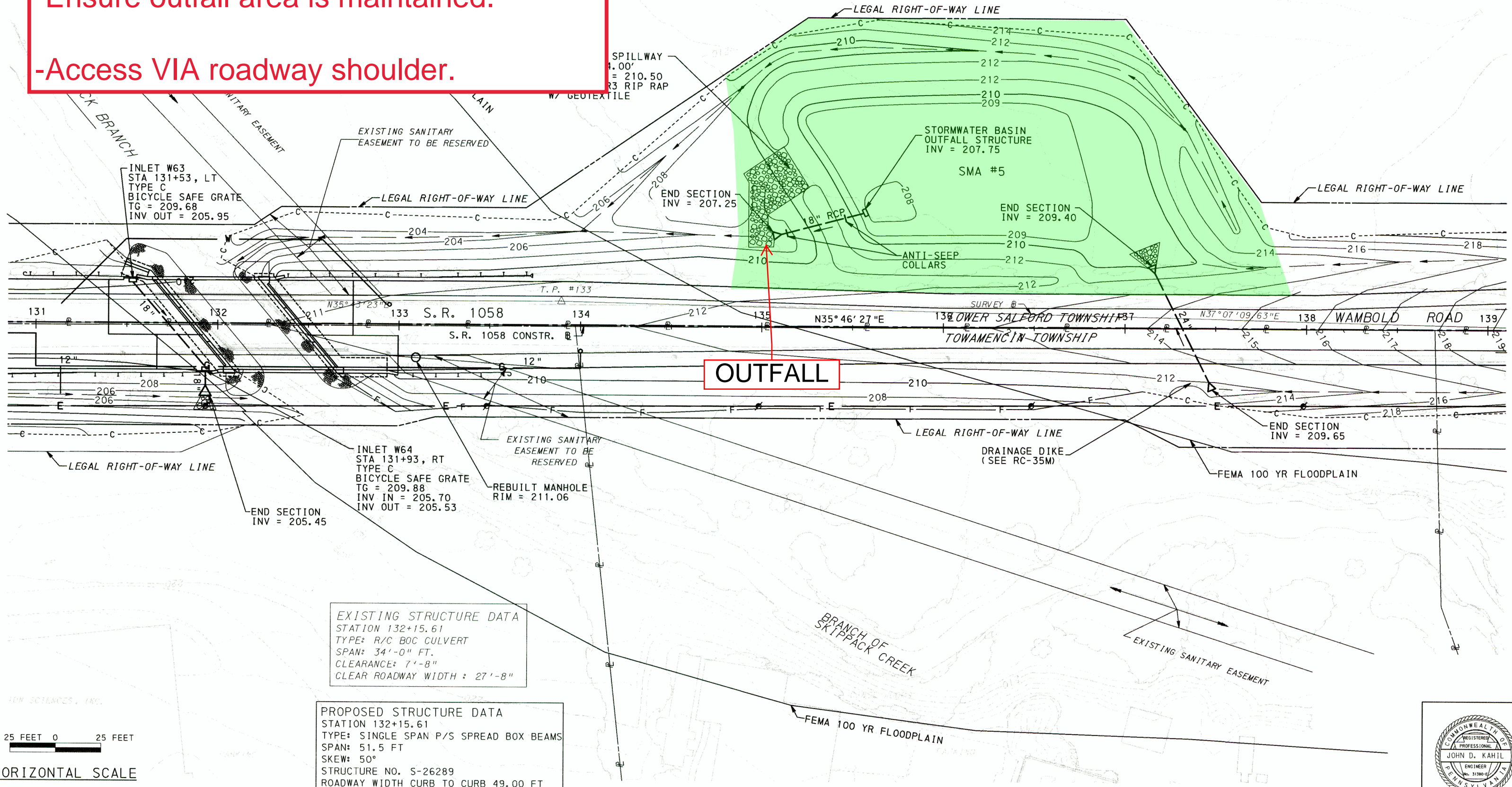
STATION	BASELINE	OFFSET	RIP-RAP	LENGTH	WIDTH	DEPTH
6+12.93	RAMP F	68.60' RT	R-4	8.00'	12.50'	1.50'
8.58.65	RAMP F	60.60' RT	R-4	20.00'	29.00'	2.25'
7+58.79	RAMP F	311.34' RT	R-4	16.00'	23.50'	1.50'



-Green shaded area is limit of maintenance work area.

-Ensure outfall area is maintained.

-Access VIA roadway shoulder.

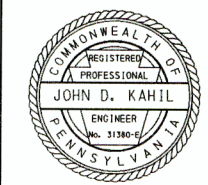


EXISTING STRUCTURE DATA
 STATION 132+15.61
 TYPE: R/C BOC CULVERT
 SPAN: 34'-0" FT.
 CLEARANCE: 7'-8"
 CLEAR ROADWAY WIDTH : 27'-8"

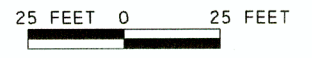
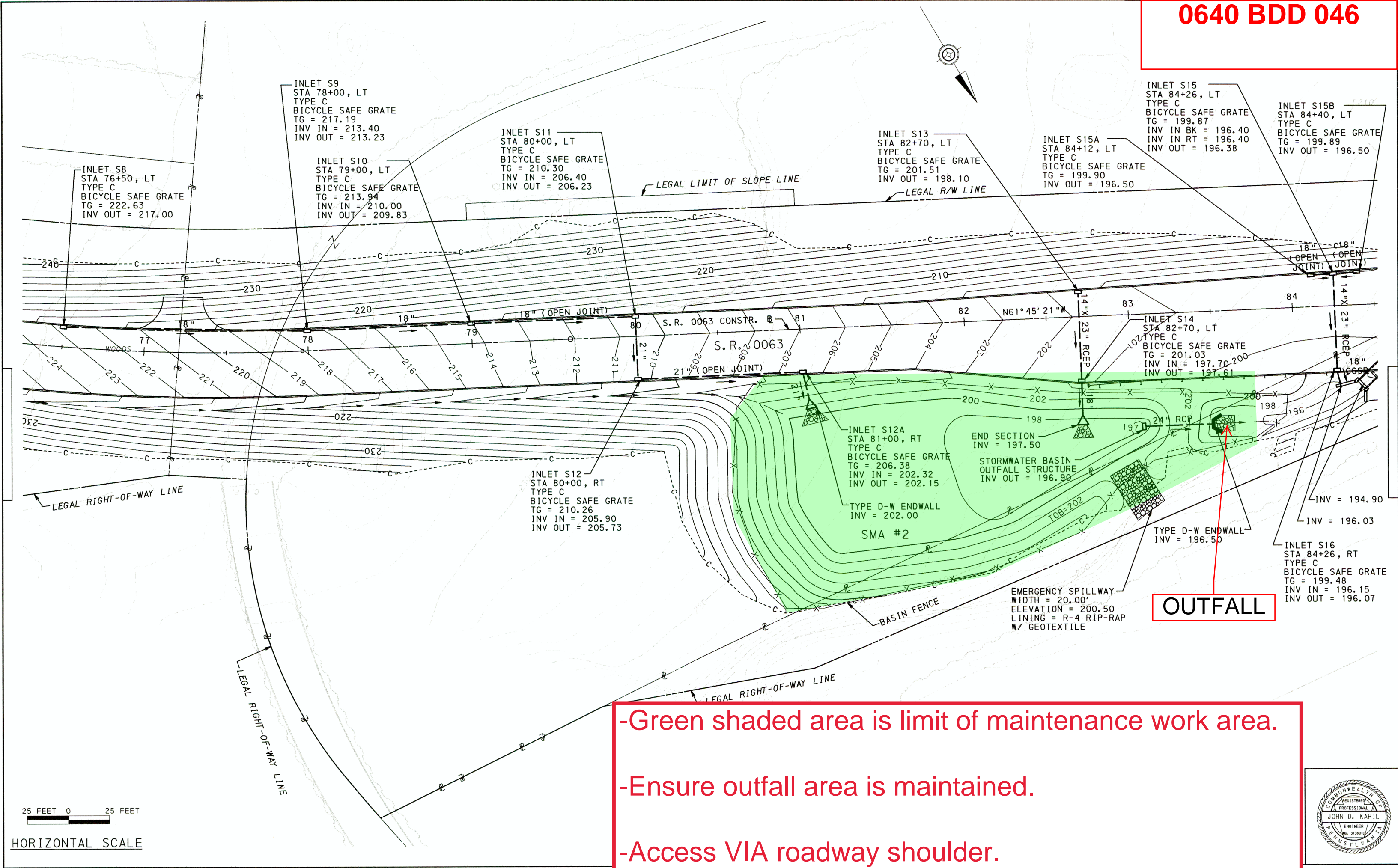
PROPOSED STRUCTURE DATA
 STATION 132+15.61
 TYPE: SINGLE SPAN P/S SPREAD BOX BEAMS
 SPAN: 51.5 FT
 SKEW: 50°
 STRUCTURE NO. S-26289
 ROADWAY WIDTH CURB TO CURB 49.00 FT



HORIZONTAL SCALE

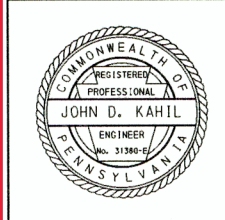


OPERATOR: s:\usernames\... FILE NAME: y:\4658 (sr) 1058 sec hant\contour grading plan\section hant\image plan sheets\cg008.dgn



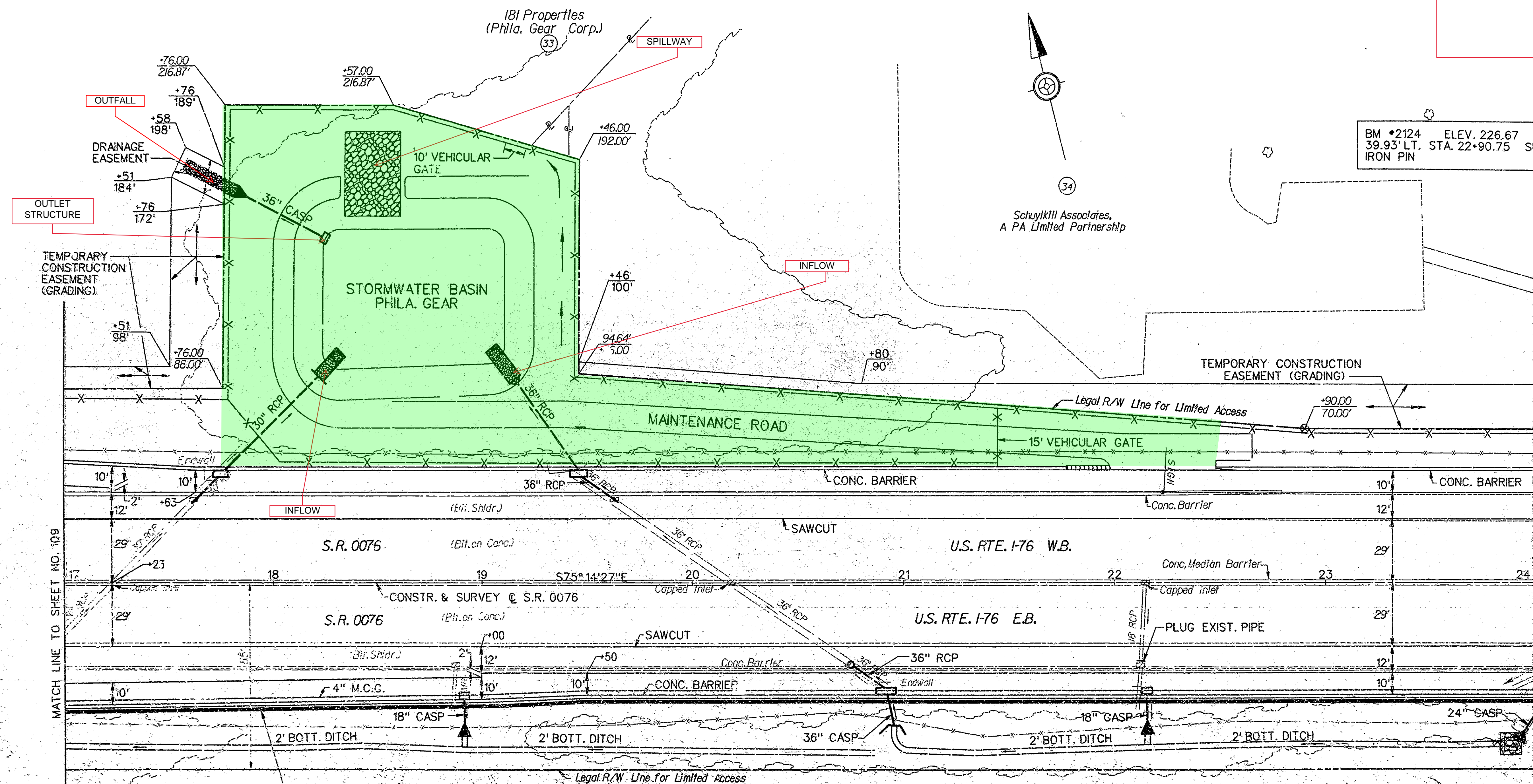
HORIZONTAL SCALE

- Green shaded area is limit of maintenance work area.
- Ensure outfall area is maintained.
- Access VIA roadway shoulder.



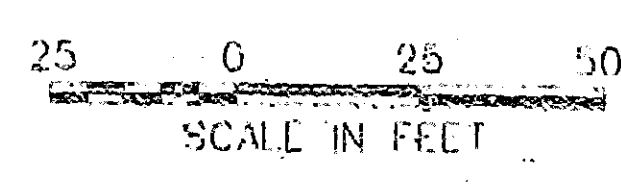
BM *2124 ELEV. 226.67
39.93' LT. STA. 22+90.75 SURVEY CENTERLINE S.R. 0076
IRON PIN

Schuykill Associates,
A PA Limited Partnership



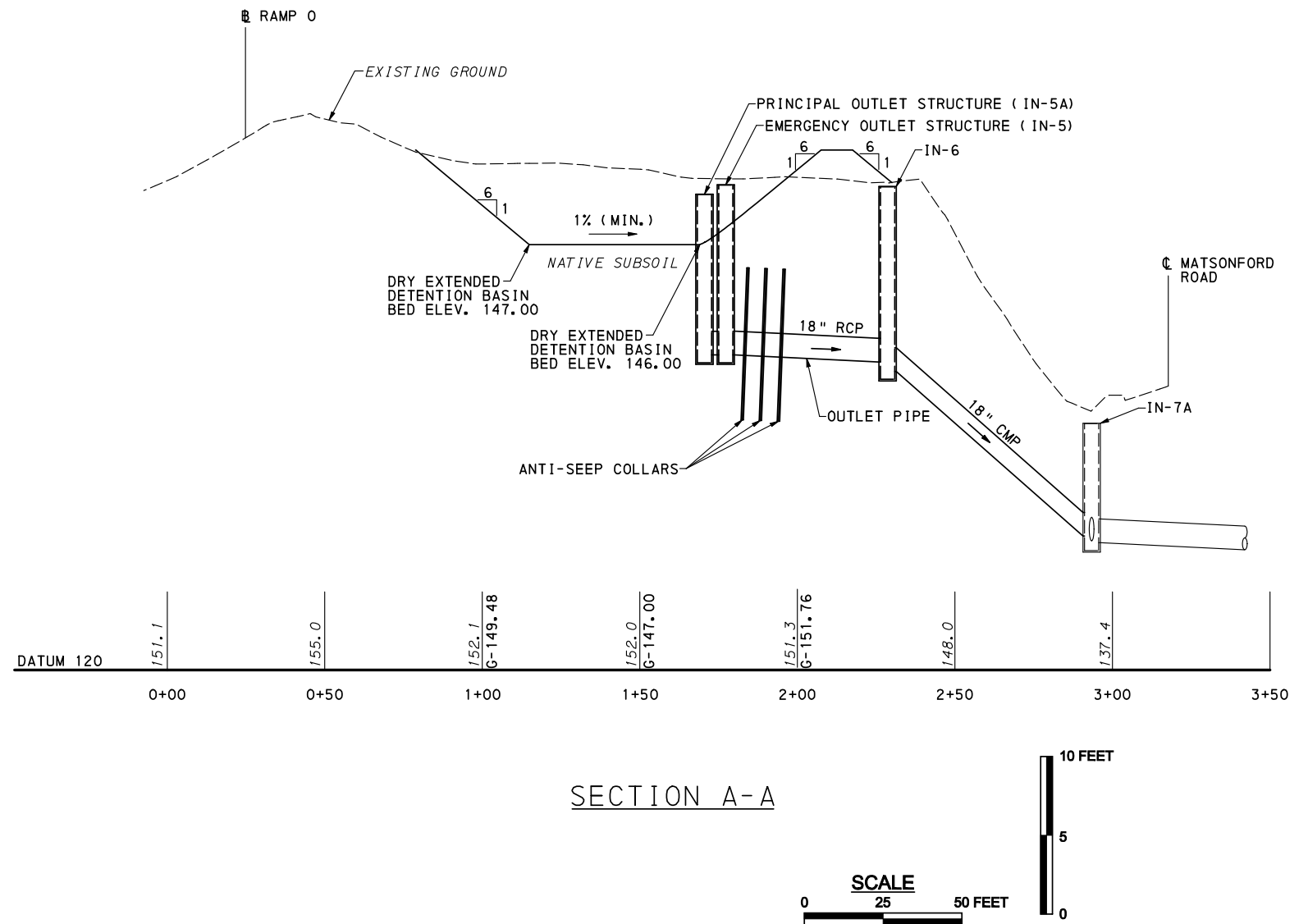
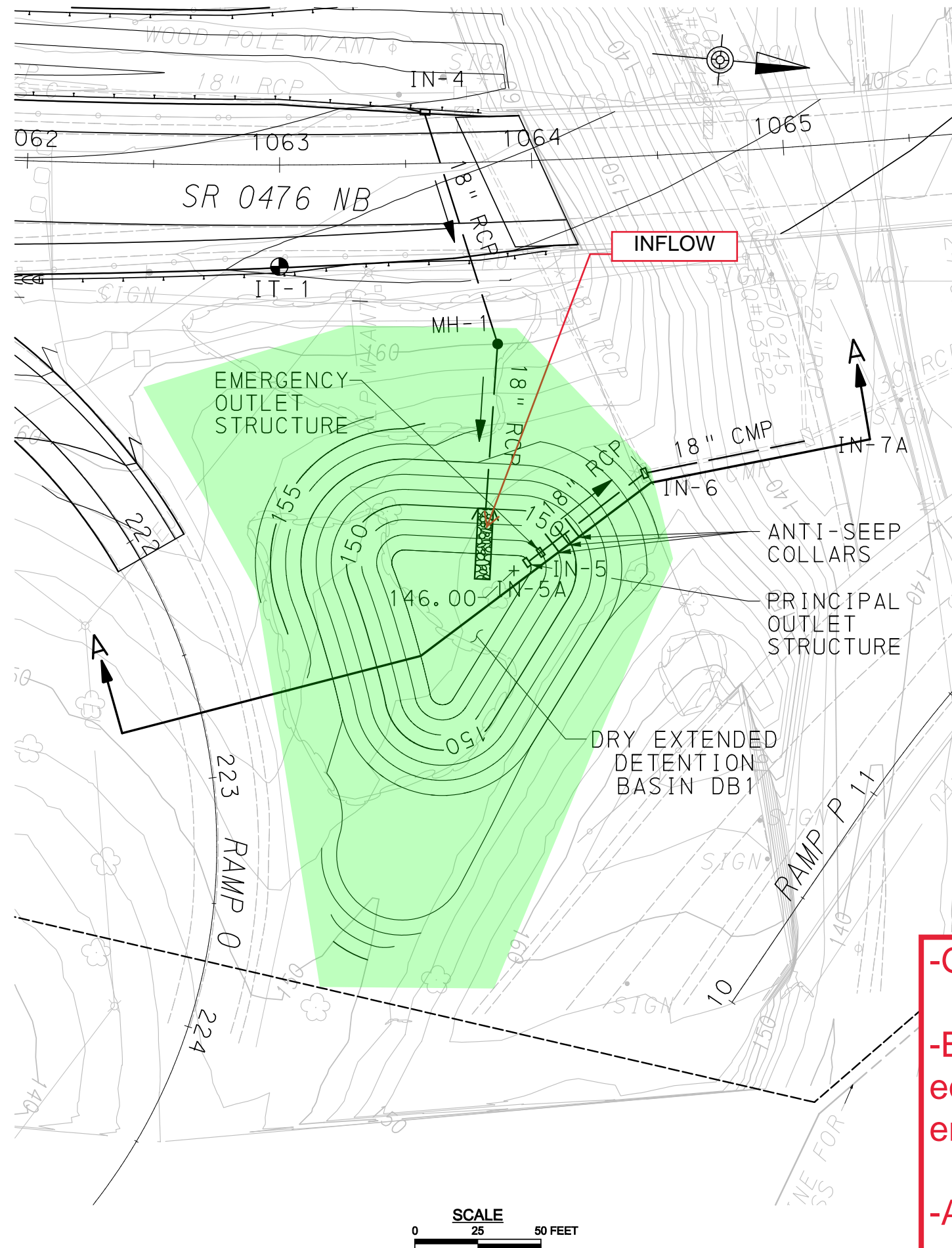
NOTE: FIELD VERIFY LOCATION OF EXISTING CONCRETE BASE COURSE PRIOR TO SAW CUTTING.

- Green shaded area is limit of maintenance work area.
- Ensure outfall area is maintained.
- Note: this site has a shallow impermeable liner, ensure no damage occurs to liner during maintenance activities.
- Access VIA roadway shoulder.

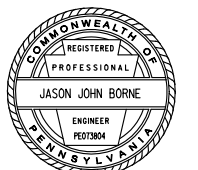


PREPARED BY:
GANNETT FLEMING, INC.
VALLEY FORGE, PA

SURVEY NO. 04
NO. CAS-04



- Green shaded area is limit of maintenance work area.
- Basin bottom is infiltrating surface. Ensure proper equipment is used and proper conditions exist prior to entry.
- Access VIA roadway shoulder/infield area.



-Green shaded area is limit of maintenance work area.

-Basin bottom is infiltrating surface. Ensure proper equipment is used and proper conditions exist prior to entry.

-Access VIA roadway shoulder.

TEST PIT #	LOCATION	INFILTRATION RATE IN/HR	BOTTOM ELEVATION
4	STATION 391+73, 90' LT (SWM #6)	0.13	418.2

PENNDOT TEST PIT SWM-8
 ROCK ELEV. = 406.9
 GROUND WATER ELEV. = 407.0
 INFILTRATION = 0 IN/HR.

TYPE M INLET
 T.G. 419.96
 INV. IN 413.80
 INV. OUT 413.63

STORMWATER OUTLET STRUCTURE, TYPE 2
 INV. 414.00

SWM#6 (BIO-INFILTRATION)
 DA = 1 ACRES

TYPE C INLET
 T.G. 421.54
 INV. IN 417.90 (2)
 INV. OUT 417.73

TYPE C INLET
 T.G. 421.65
 INV. 418.28

TYPE D-W ENDWALL
 INV. 415.75

TYPE C INLET
 T.G. 419.30
 INV. OUT 415.95

- ⊙ TEST PIT LOCATION (BY OTHERS)
- ⊗ TEST PIT LOCATION



- ⊙ = BLACK WILLOW
- ⊙ = SEAGREEN JUNIPER
- ⊙ = HONEY LOCUST
- ⊙ = SWAMP WHITE OAK
- ⊙ = HYBRID EASTERN RED CEDAR
- ⊙ = WHITE PINE
- ⊙ = RED MAPLE
- ⊙ = WEEPING FORSYTHIA

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

OPERATOR: FILE NAME: COUNTY LINE ROAD.DWG Part 02-FINAL DESIGN/Erosion Control/PCS PLAN 010-2038 PLAN SH1.dgn

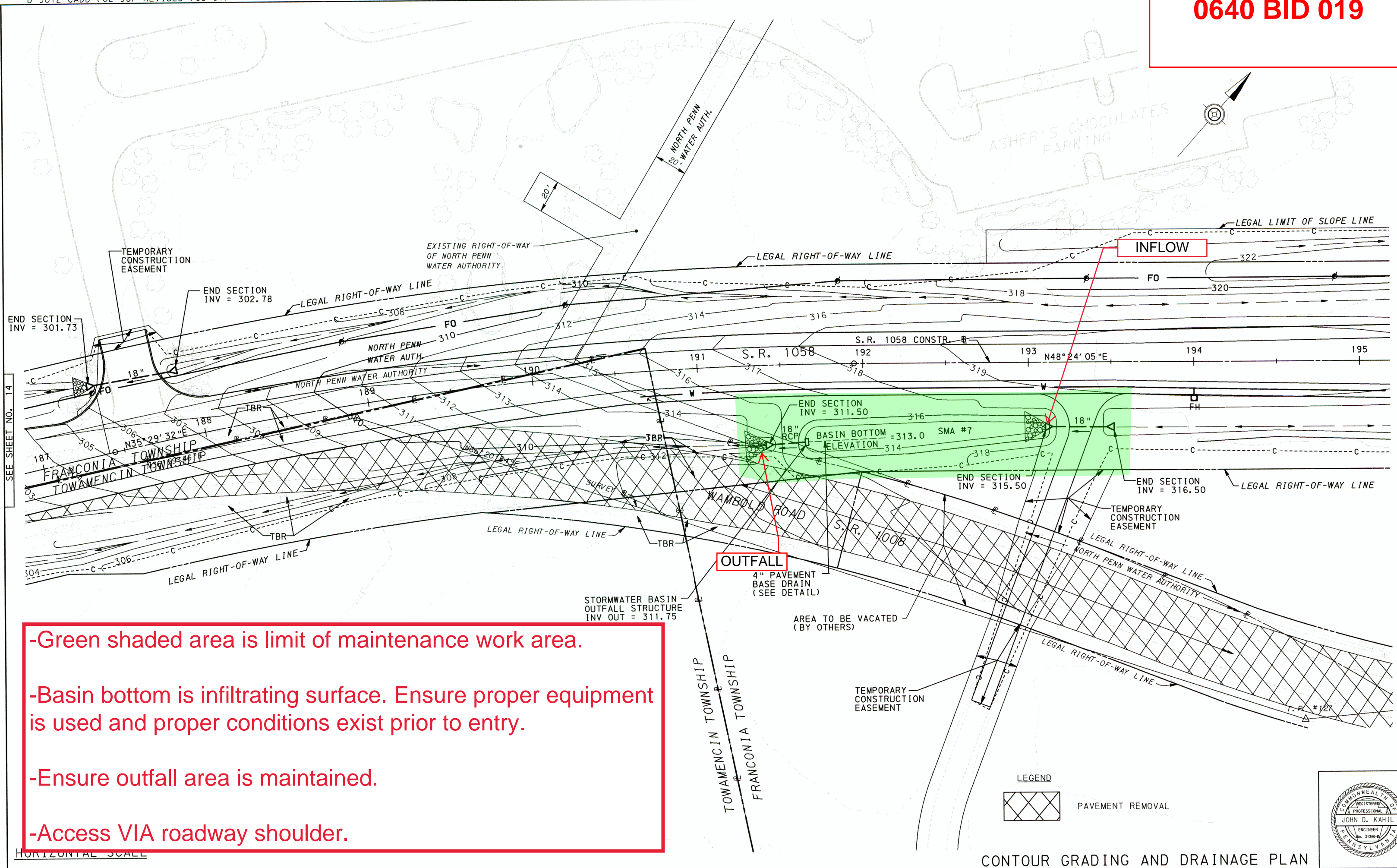
PLOTTED: 4/27/2010

SEE SHEET NO. 9

SEE SHEET NO. 11

PLOTTED: 12/11/2008

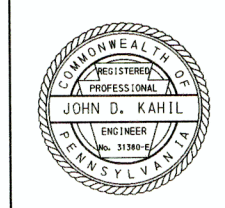
OPERATOR: #USERNAME## FILE NAME: y:\4658 (SR 1058 sec hant)\contour grading plans\section hant\drainage plan sheets\cgdl15.dgn



- Green shaded area is limit of maintenance work area.
- Basin bottom is infiltrating surface. Ensure proper equipment is used and proper conditions exist prior to entry.
- Ensure outfall area is maintained.
- Access VIA roadway shoulder.

SEE SHEET NO. 16

SEE SHEET NO. 14



CONTOUR GRADING AND DRAINAGE PLAN

0640 BRU Pond 1

SEE SHEET 11

POND 1 - BIO-RETENTION BASIN
DRAINAGE AREA = 3.21 ACRES, CN=87

POND 2 - BIO-RETENTION BASIN
DRAINAGE AREA = 12.06 ACRES, CN=82

- Green highlighted area is limit of maintenance work area.
- Basin bottom is infiltrating surface. Ensure proper equipment is used and proper conditions exist prior to entry.
- Mow SCM bottom surface only during the fall maintenance cycle.
- Access VIA roadway shoulder.

ACCESS

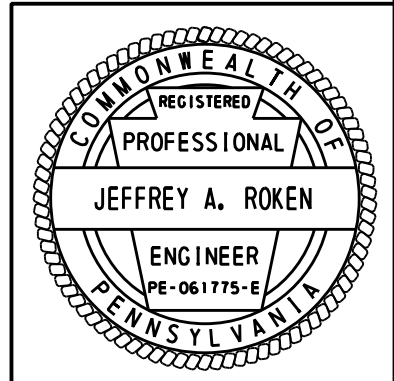
AMENDED SOILS
(AREA C) = 27,880 SF

AMENDED SOILS
(AREA A) = 6,450 SF

AMENDED SOILS
(AREA B) = 8,320 SF

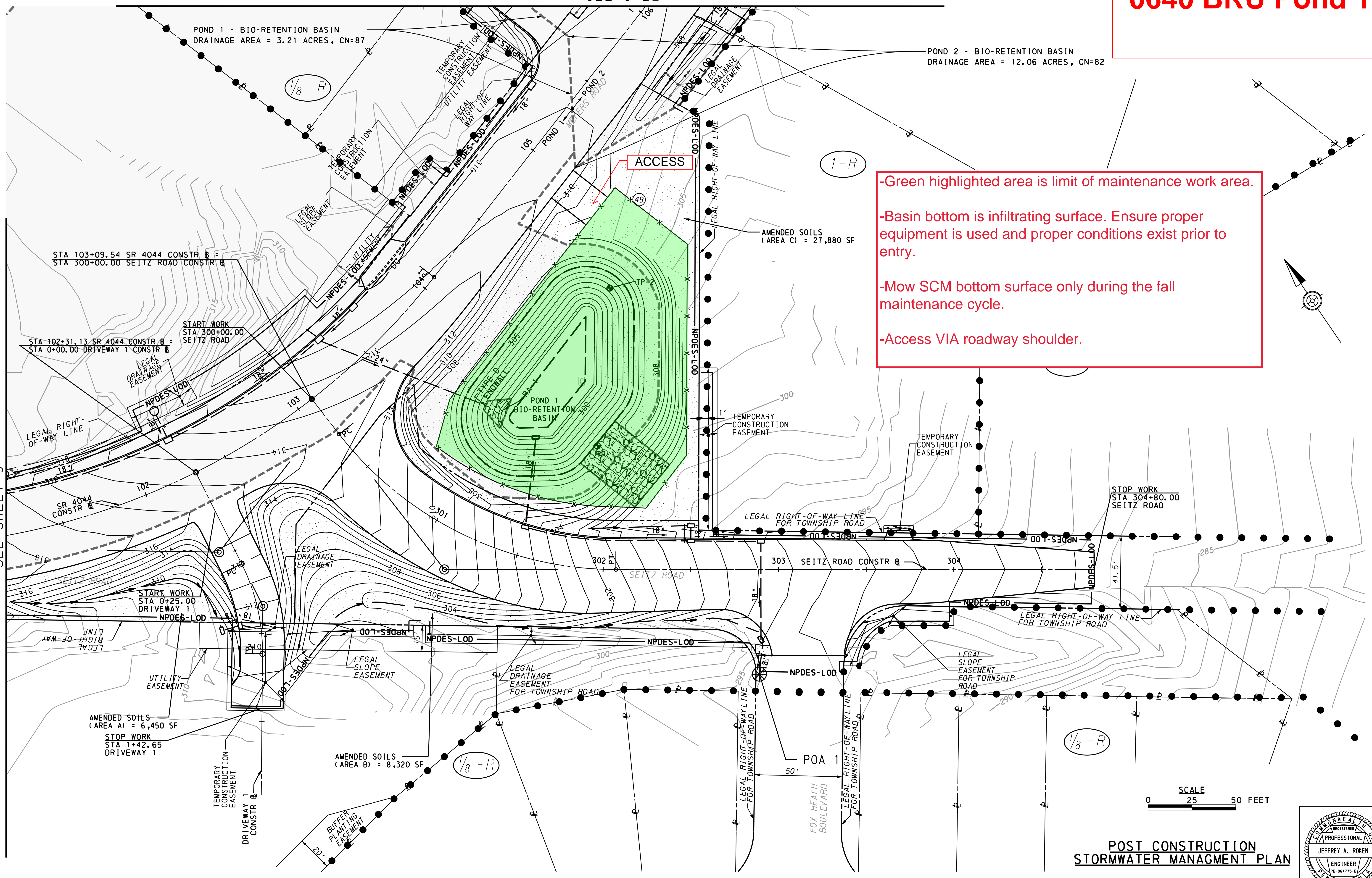
SCALE
0 25 50 FEET

POST CONSTRUCTION
STORMWATER MANAGEMENT PLAN



OPERATOR: T1\031908 - SR4044\PCSM\03-Plans\02-SR4044 PCSM PLAN.dgn
FILE NAME: T1\031908 - SR4044\PCSM\03-Plans\02-SR4044 PCSM PLAN.dgn
D-9012 CADD (02-90) REVISED (10-04)
PLOTTED: 3/22/2016 12:46:27 PM

SEE SHEET 9



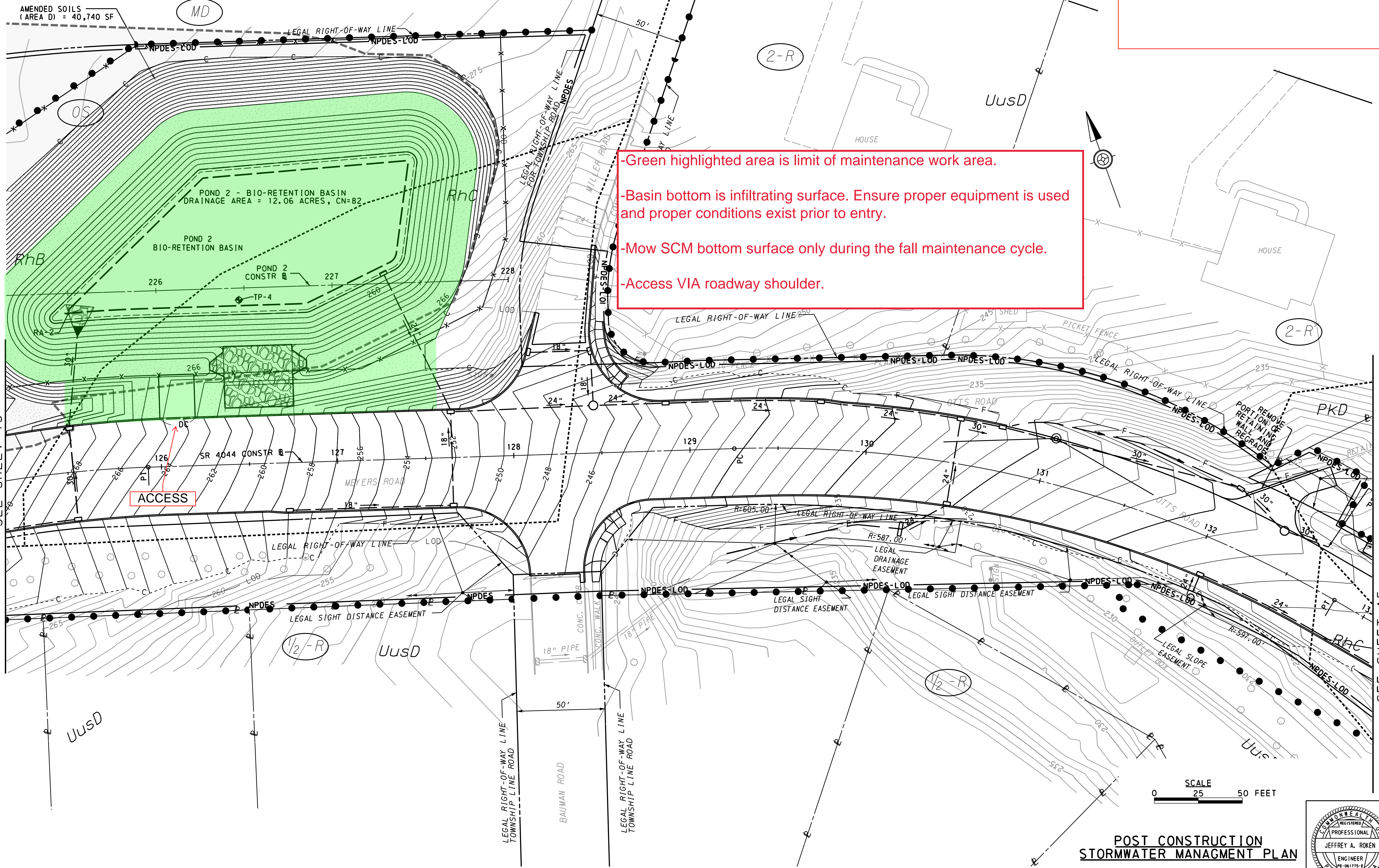
0640 BRU Pond 2

- Green highlighted area is limit of maintenance work area.
- Basin bottom is infiltrating surface. Ensure proper equipment is used and proper conditions exist prior to entry.
- Mow SCM bottom surface only during the fall maintenance cycle.
- Access VIA roadway shoulder.

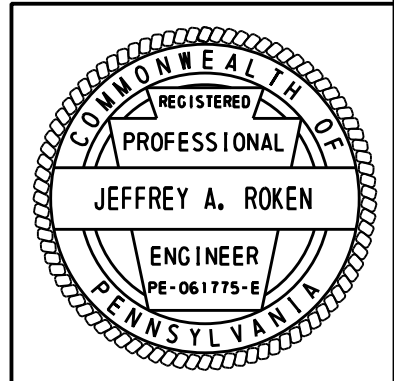
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D-9012 CADD (02-90) REVISED (10-04)
PLOTTED: 3/22/2016 12:46:32 PM

SEE SHEET 13

SEE SHEET 15



POST CONSTRUCTION
STORMWATER MANAGEMENT PLAN



-Green highlighted area is limit of maintenance work area.
 -All these basin bottoms are infiltrating surface. Ensure proper equipment is used and proper conditions exist prior to entry.
 -Mow SCM bottom surfaces only during the fall maintenance cycle.
 -Access VIA roadway shoulder.

0640 BRE Pond 3
0640 BRU Pond 4
0640 BRE Pond 5

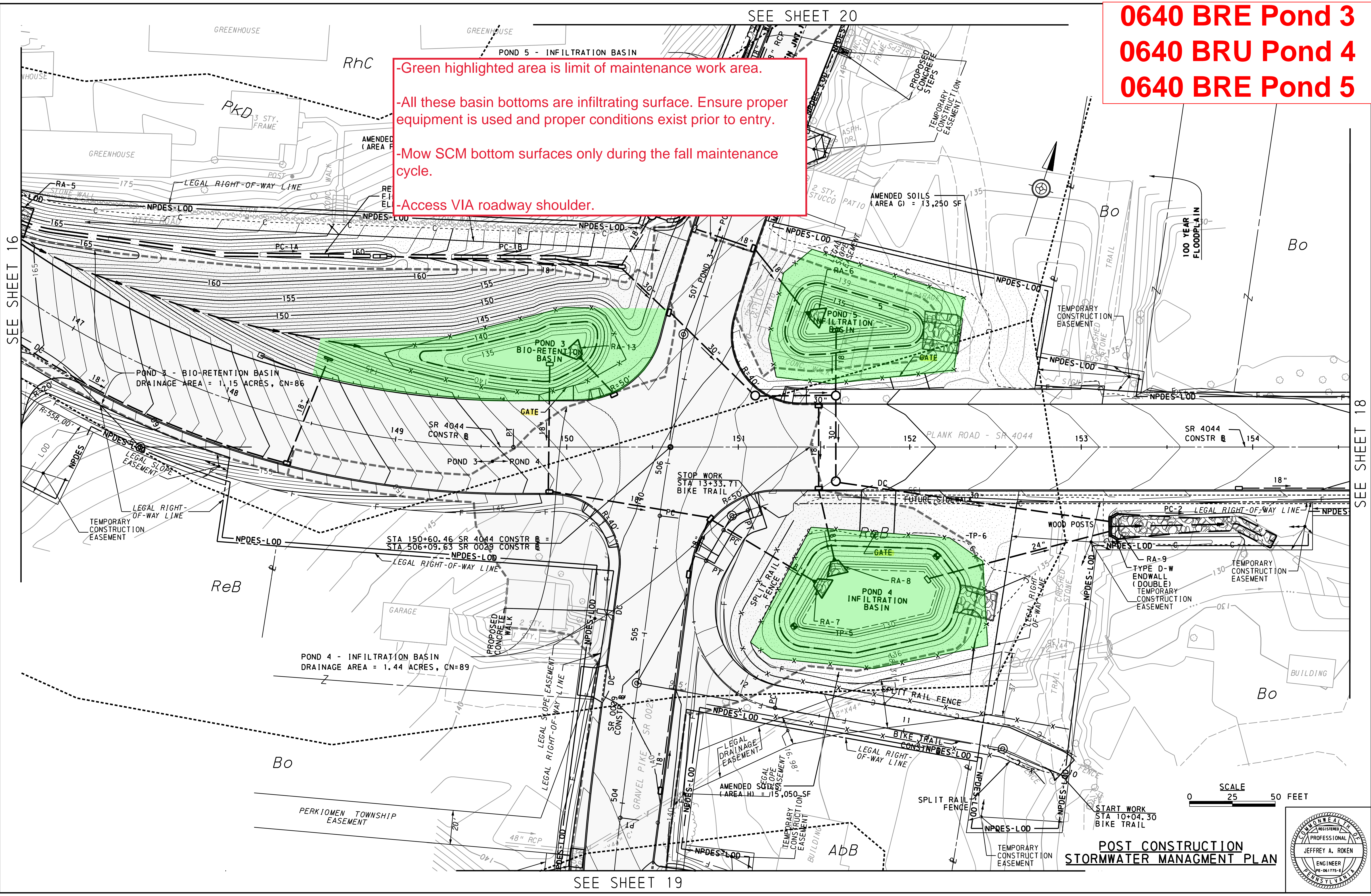
SEE SHEET 20

SEE SHEET 19

SEE SHEET 16

SEE SHEET 18

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POST CONSTRUCTION
 STORMWATER MANAGEMENT PLAN

