



STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
PO BOX 778
DOVER, DELAWARE 19903

JACK MARKELL
GOVERNOR

SHAILEN BHATT
SECRETARY

VIA OVERNIGHT DELIVERY

(302) 760-2030
FAX (302) 739-2254

October 22, 2014

Contract No. T200412201.01
Federal Aid Project No. NH-K008(5)
SR 1, Thompsonville Grade Separated Intersection
Kent County

Ladies and Gentlemen:

Enclosed is Addendum No. 2 for the referenced contract consisting of the following:

1. Five (5) sheets, Construction Plans, sheets 57, 59, 61, 63, and 179 revised, to be substituted for the same sheets in the Plan Set. These are revised notes discussed in the Questions and Answers.

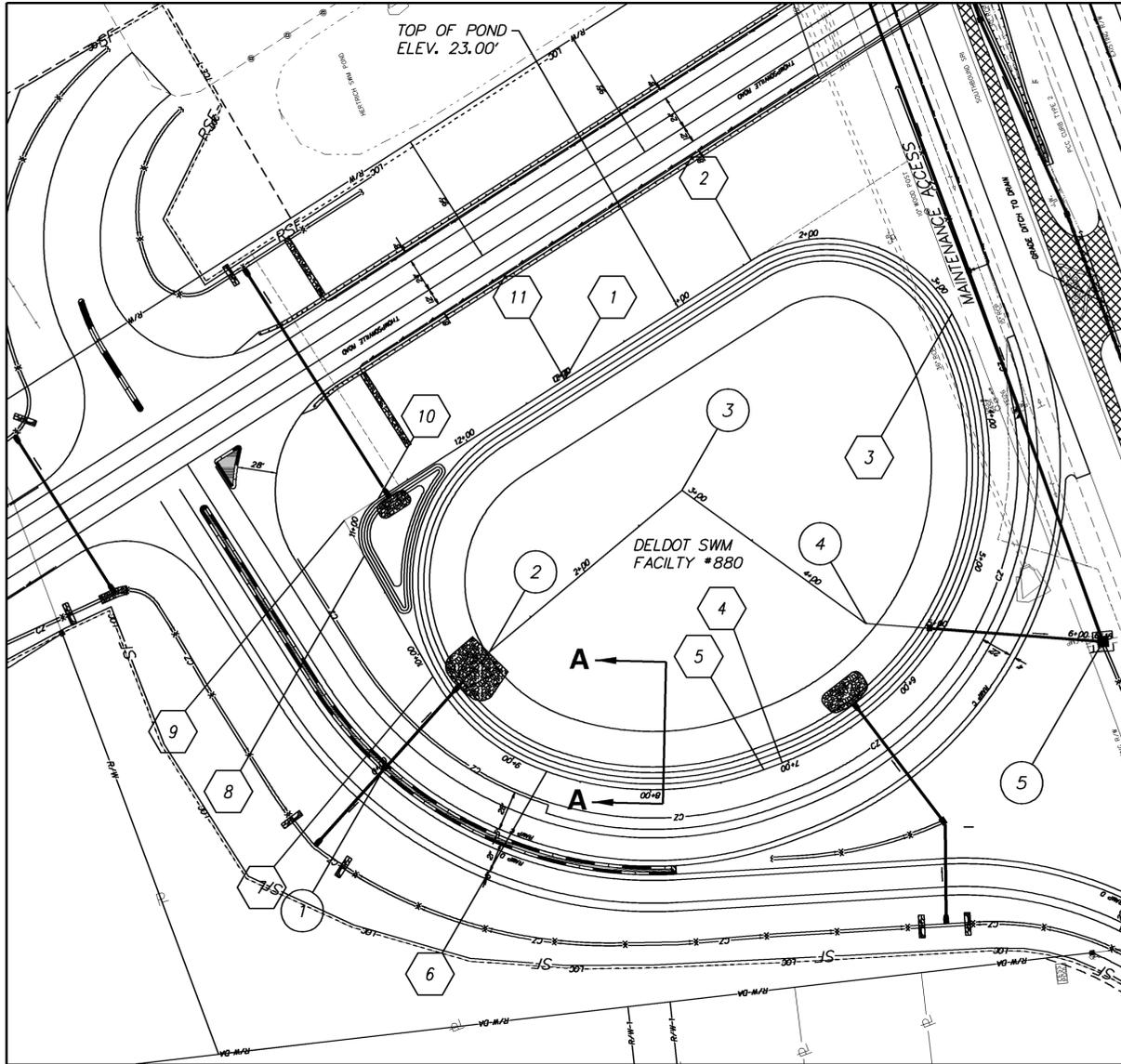
Please note the revisions listed above and submit your bid based upon this information.

Sincerely,

signature on file

James H. Hoagland
Contract Services Administrator

:jhh
Enclosures



INFILTRATION BASIN CONSTRUCTION SEQUENCE AND NOTES:

IF THE INFILTRATION BASIN IS TO BE USED AS A SEDIMENT BASIN DURING CONSTRUCTION, GRADING SHALL ONLY BE COMPLETED TO 1-FOOT ABOVE THE PERMANENT BOTTOM ELEVATION.

- A. CONSTRUCTION:**
1. INSTALL STABILIZED CONSTRUCTION ENTRANCE(S) AS NEEDED.
 2. CLEAR AND GRUB FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS.
 3. INSTALL PERIMETER CONTROLS AS SHOWN ON THE PLANS.
 4. CLEAR AND GRUB REMAINING AREA FOR STORMWATER MANAGEMENT FACILITY CONSTRUCTION.
 5. CONSTRUCT BASIN OUTLET AND OUTFALL AS SHOWN ON THE PLANS. DEWATER FOUNDATION AS NEEDED IN ACCORDANCE WITH DEWATERING PRACTICES AS SHOWN IN THE STANDARD SPECIFICATIONS. INSTALL SKIMMER DEWATERING DEVICE AND/OR OTHER TEMPORARY MODIFICATIONS AS SHOWN IN THE PLANS.
 6. EXCAVATE THE FACILITY AND COMPLETE TO 1-FOOT ABOVE THE PERMANENT BOTTOM ELEVATION. NO HEAVY EQUIPMENT SHALL BE USED AT THE PERMANENT BOTTOM ELEVATION. THE FINAL 1-FOOT OF MATERIAL TO BE EXCAVATED SHALL BE STARTED AT FROM ONE SIDE OF THE BASIN AND REMOVED GOING ACROSS OR STARTED IN THE MIDDLE AND WORKED TOWARDS THE OUTSIDES.
 7. ALL DISTURBED AREAS MEETING FINAL ELEVATIONS AND GRADES ABOVE THE PERMANENT BOTTOM ELEVATION SHALL BE SEEDED WITH PERMANENT SEED - DRY GROUND AS SPECIFIED IN THE STANDARD SPECIFICATIONS. IF NOT MEETING FINAL ELEVATIONS AND GRADES, THEN SEED WITH TEMPORARY SEED - DRY GROUND AS SPECIFIED IN THE STANDARD SPECIFICATIONS.
 8. BASIN BOTTOM ELEVATION SHALL BE SEEDED WITH PERMANENT SEED - WET GROUND.

- B. MAINTENANCE OF INFILTRATION BASIN BEING USED AS A SEDIMENT BASIN:**
1. THE CONTRACTOR SHALL INSPECT THE BASIN THE NEXT WORK DAY FOLLOWING A RAIN EVENT AND MAKE ANY REPAIRS AS NEEDED.
 2. ANY EXCESS SEDIMENT AROUND THE OUTFALL AREA WILL BE REMOVED AND DISPOSED AT A LOCATION APPROVED BY THE ENGINEER.

- C. CONVERSION TO PERMANENT STORMWATER MANAGEMENT FACILITY:**
1. CONVERT THE BASIN INTO THE PERMANENT STORMWATER MANAGEMENT FACILITY AFTER ALL AREAS DRAINING TO THE BASIN HAVE ATTAINED FINAL STABILIZATION AND THE STORMWATER ENGINEER HAS APPROVED THE CONVERSION.
 2. PUMP DOWN ANY STANDING WATER IN THE BASIN AS NECESSARY AS PER THE STANDARD SPECIFICATIONS.
 3. REMOVE ANY EXCESS SEDIMENT. NO HEAVY EQUIPMENT SHALL BE USED AT THE PERMANENT BOTTOM ELEVATION. THE FINAL 1-FOOT OF MATERIAL TO BE EXCAVATED SHALL BE STARTED AT FROM ONE SIDE OF THE BASIN AND REMOVED GOING ACROSS OR STARTED IN THE MIDDLE AND WORKED TOWARDS THE OUTSIDES.
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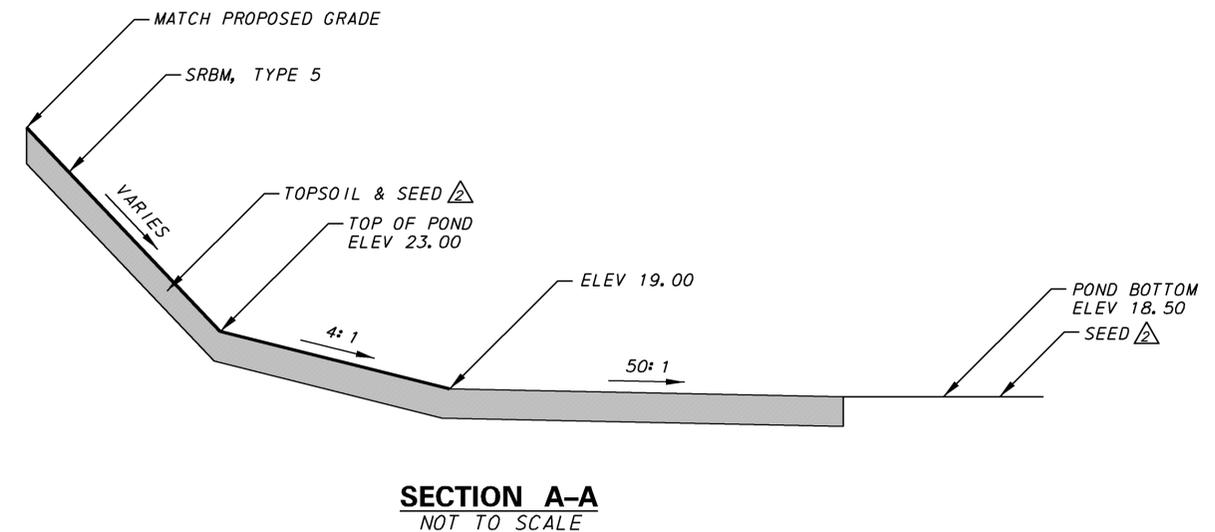
D. INFILTRATION BASIN EXCAVATION WILL BE PAID FOR UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT. Δ

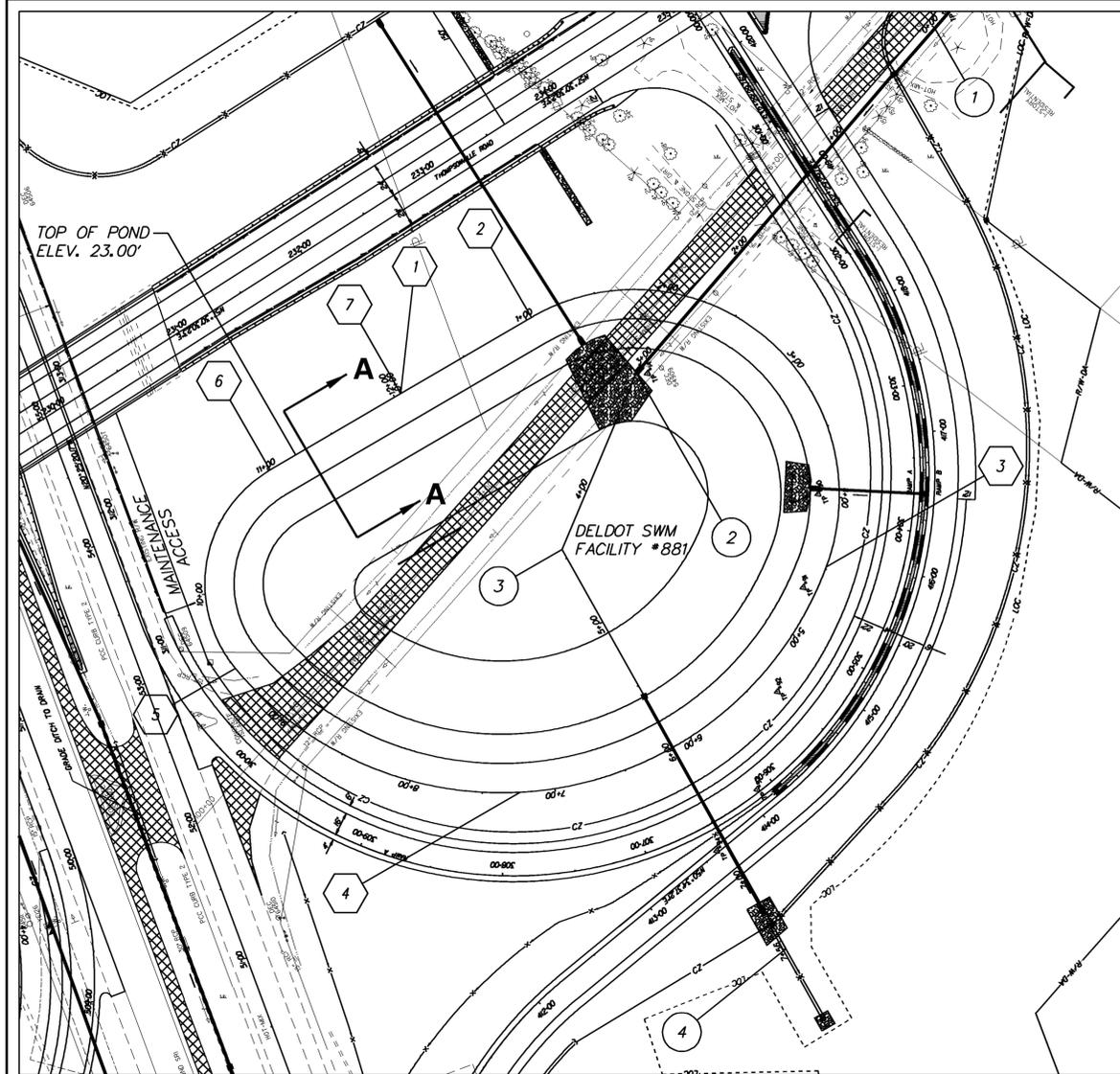
POND EMBANKMENT			
STATION	NORTHING	EASTING	RADIUS
1 POB STA 0+00	348310.1798	652693.8799	
2 PC STA 1+56.17	348394.0701	652825.6039	100.00'
3 PCC STA 3+21.01	348356.7374	652967.5805	225.00'
4 PT STA 7+04.33	348040.1104	652847.5437	
5 PC STA 7+18.18	348035.2747	652834.5629	225.00'
6 PCC STA 8+74.83	348033.9710	652681.0634	150.00'
7 PT STA 9+81.73	348101.0601	652600.7516	
8 PC STA 10+79.66	348186.1168	652552.2150	30.00'
9 PI STA 11+08.24	348210.9380	652538.0510	
10 PT STA 11+25.33	348226.2895	652562.1559	
11 POE STA 12+81.50	348310.1798	652693.8799	

POND DESIGN SUMMARY FOR INFILTRATION POND				
DESIGN STORM	FACILITY INFLOW	FACILITY DISCHARGE	WATER SURFACE ELEVATION	STORAGE VOLUME (AC. FT)
1 - YEAR	12.02 cfs	0 cfs	18.61 ft	0.173
2 - YEAR	16.50 cfs	0 cfs	18.68 ft	0.354
10 - YEAR	39.32 cfs	0 cfs	19.45 ft	1.966
100 - YEAR	105.90 cfs	27.81 cfs	21.36 ft	6.501

HAZARD CLASSIFICATION: CLASS A AS PER POND CODE 378
 DRAINAGE AREA TO FACILITY: 65.42 ACRES
 MANAGEMENT PROVIDED BY FACILITY: WATER QUALITY BY EXTENDED DETENTION OF FIRST 2.0" OF RUNOFF, WATER QUANTITY FOR 2 & 10 YEAR STORMS.

PRINCIPAL SPILLWAY		
STATION	NORTHING	EASTING
1 PI STA 0+00.00	348035.2416	652565.7894
2 PI STA 1+12.00	348118.4054	652640.8079
3 PI STA 2+89.37	348232.3187	652776.7601
4 PI STA 4+49.83	348138.2508	652906.7629
5 POE STA 6+17.73	348125.4793	653074.1686





INFILTRATION BASIN CONSTRUCTION SEQUENCE AND NOTES:

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7. ALL DISTURBED AREAS MEETING FINAL ELEVATIONS AND GRADES ABOVE THE PERMANENT BOTTOM ELEVATION SHALL BE SEEDED WITH PERMANENT SEED - DRY GROUND AS SPECIFIED IN THE STANDARD SPECIFICATIONS. IF NOT MEETING FINAL ELEVATIONS AND GRADES, THEN SEED WITH TEMPORARY SEED - DRY GROUND AS SPECIFIED IN THE STANDARD SPECIFICATIONS.
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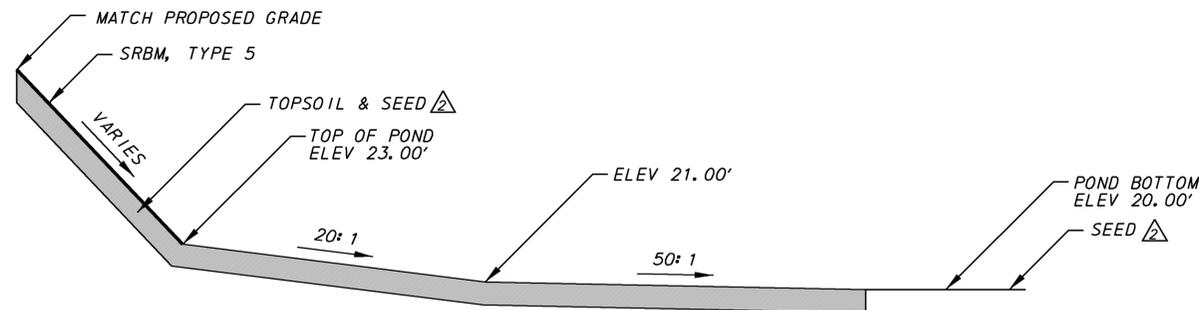
D. INFILTRATION BASIN EXCAVATION WILL BE PAID FOR UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT. Δ

POND EMBANKMENT			
STATION	NORTHING	EASTING	RADIUS
1) POB STA 0+00	348652.4200	653253.9873	
2) PC STA 1+03.61	348704.5382	653343.5318	140.41'
3) PCC STA 4+48.56	348533.8794	653545.6311	237.76'
4) PCC STA 7+23.95	348379.9537	653335.7684	237.76'
5) PCC STA 9+44.46	348464.7426	653140.7084	90.00'
6) PT STA 11+01.12	348600.3017	653164.4427	
7) POE STA 12+04.73	348652.4200	653253.9873	

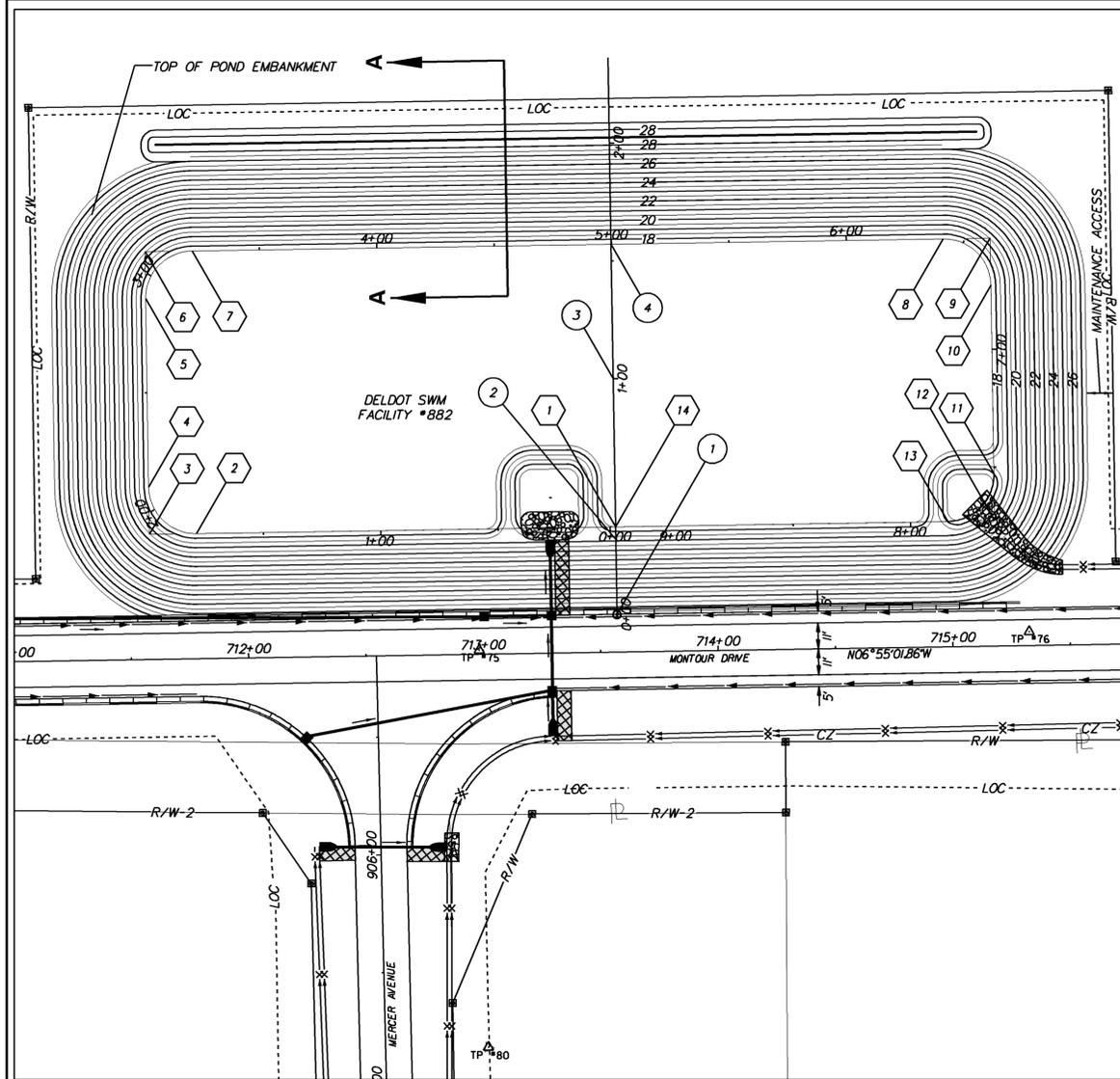
DESIGN STORM	FACILITY INFLOW	FACILITY DISCHARGE	WATER SURFACE ELEVATION	STORAGE VOLUME (AC. FT)
1 - YEAR	0.00 cfs	0 cfs	20.00 FT	0.000
2 - YEAR	0.03 cfs	0 cfs	20.03 FT	0.007
10 - YEAR	1.25 cfs	0 cfs	20.66 ft	0.397
100 - YEAR	20.02 cfs	1.39 cfs	21.54 ft	1.68

HAZARD CLASSIFICATION: CLASS A AS PER POND CODE 378
 DRAINAGE AREA TO FACILITY: 16.42 ACRES
 MANAGEMENT PROVIDED BY FACILITY: WATER QUALITY BY EXTENDED DETENTION OF FIRST 2.0" OF RUNOFF, WATER QUANTITY FOR 2 & 10 YEAR STORMS.

STATION	NORTHING	EASTING
1) POB STA 0+00	348902.6875	653619.6801
2) PISTA 3+12.00	348666.6834	653415.6065
3) PISTA 4+43.19	348545.8486	653364.5099
4) POE STA 7+56.20	348273.0398	653517.9605



SECTION A-A
NOT TO SCALE



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- D. INFILTRATION BASIN EXCAVATION WILL BE PAID FOR UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT. ⚠**

POND EMBANKMENT			
STATION	NORTHING	EASTING	RADIUS
1 POB STA 0+00	346977.5910	652745.2830	
2 PC STA 1+78.51	346800.3817	652766.7816	20.00'
3 PI STA 1+98.51	346780.5273	652769.1903	
4 PT STA 2+09.92	346778.1186	652749.3359	
5 PC STA 2+89.92	346768.4838	652669.9182	20.00'
6 PI STA 3+09.92	346766.0751	652650.0638	
7 PT STA 3+21.34	346785.9296	652647.6551	
8 PC STA 6+41.34	347103.6004	652609.1160	20.00'
9 PI STA 6+61.34	347123.4548	652606.7073	
10 PT STA 6+72.76	347125.8635	652626.5617	
11 PC STA 7+52.76	347135.4983	652705.9794	20.00'
12 PI STA 7+72.76	347137.9069	652725.8339	
13 PT STA 7+84.17	347118.0525	652728.2426	
14 POE STA 9+25.66	346977.5910	652745.2830	

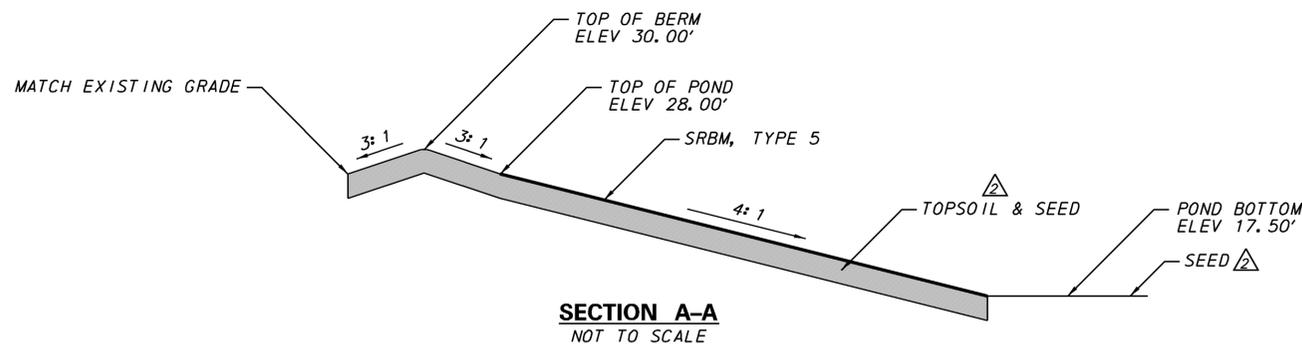
POND DESIGN SUMMARY FOR INFILTRATION POND

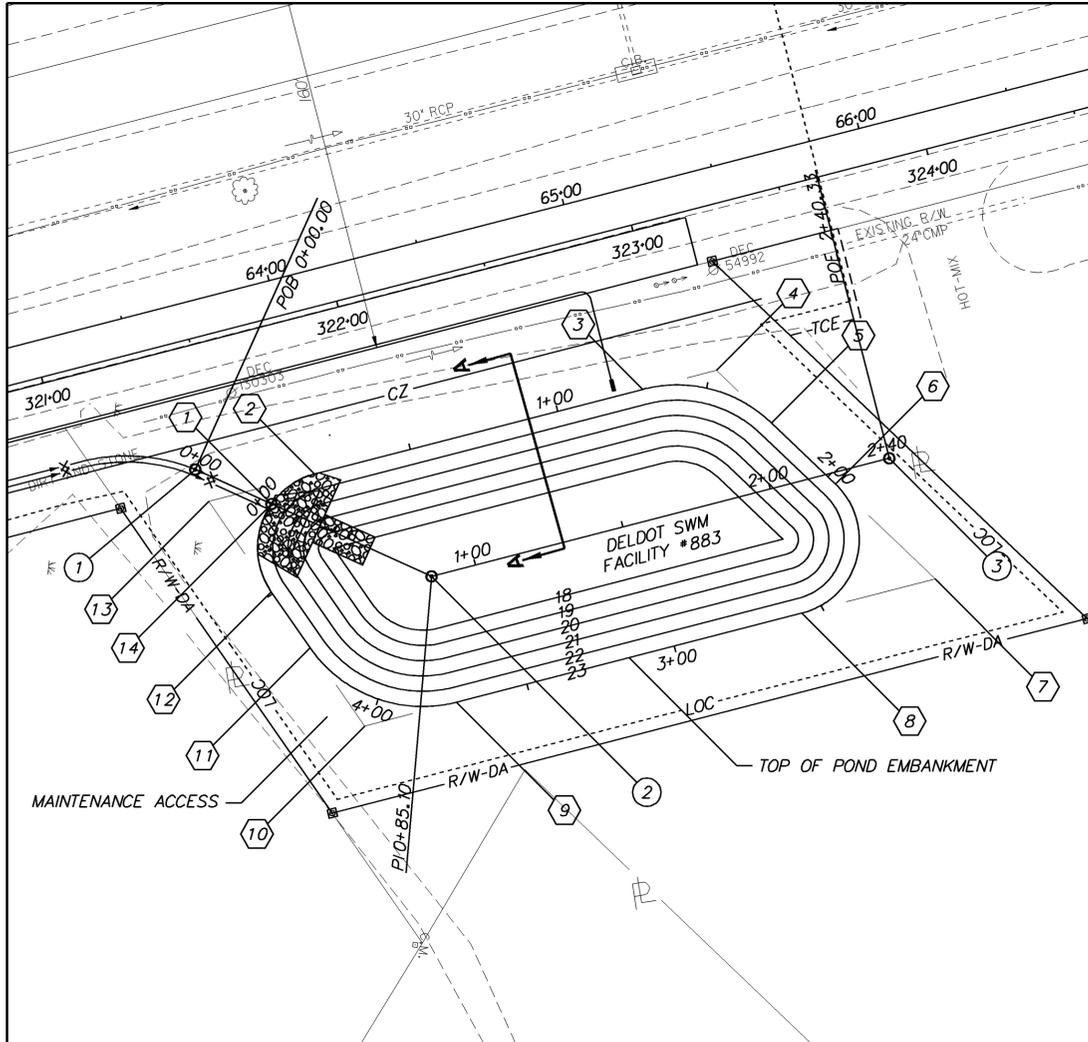
DESIGN STORM	FACILITY INFLOW	FACILITY DISCHARGE	WATER SURFACE ELEVATION	STORAGE VOLUME (AC. FT.)
1 - YEAR	1.34 cfs	0.00 cfs	17.59 ft	0.086
2 - YEAR	3.30 cfs	0.00 cfs	17.69 ft	0.189
10 - YEAR	13.77 cfs	0.00 cfs	18.33 ft	0.861
100 - YEAR	43.37 cfs	0.00 cfs	21.27 ft	4.374

HAZARD CLASSIFICATION: CLASS A AS PER POND CODE 378
 DRAINAGE AREA TO FACILITY: 22.27 ACRES
 MANAGEMENT PROVIDED BY FACILITY: WATER QUALITY BY EXTENDED DETENTION OF FIRST 2.0" OF RUNOFF, WATER QUANTITY FOR 2 & 10 YEAR STORMS.

PRINCIPAL SPILLWAY

STATION	NORTHING	EASTING
1 POB STA 0+00.00	346982.0675	652782.1825
2 PISTA 0+32.00	346978.2124	652750.4055
3 PISTA 1+00.00	346970.0241	652682.9103
4 POE STA 1+57.17	346963.1388	652626.1565





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D. INFILTRATION BASIN EXCAVATION WILL BE PAID FOR UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT. Δ

POND EMBANKMENT			
STATION	NORTHING	EASTING	RADIUS
1) POB STA 0+00	349493.5193	652767.2612	
2) PT STA 0+17.61	349506.6138	652756.0382	
3) PC STA 1+28.89	349610.9025	652717.2075	45.00'
4) PI STA 1+53.81	349634.2595	652708.5107	
5) PT STA 1+74.41	349654.0226	652723.6963	
6) PC STA 2+03.45	349677.0438	652741.3854	25.00'
7) PI STA 2+48.58	349712.8360	652768.8874	
8) PT STA 2+56.69	349670.5350	652784.6378	
9) PC STA 3+73.78	349560.8074	652825.4936	45.00'
10) PI STA 4+05.05	349531.5065	652836.4035	
11) PT STA 4+28.43	349511.0605	652812.7491	
12) PC STA 4+50.82	349496.4235	652795.8153	25.00'
13) PI STA 4+68.34	349472.8940	652768.5935	
14) POE STA 4+81.39	349493.5193	652767.2612	

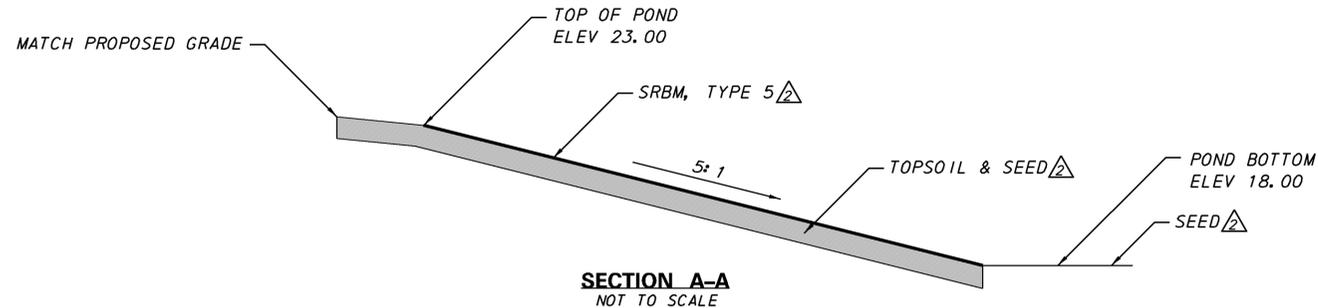
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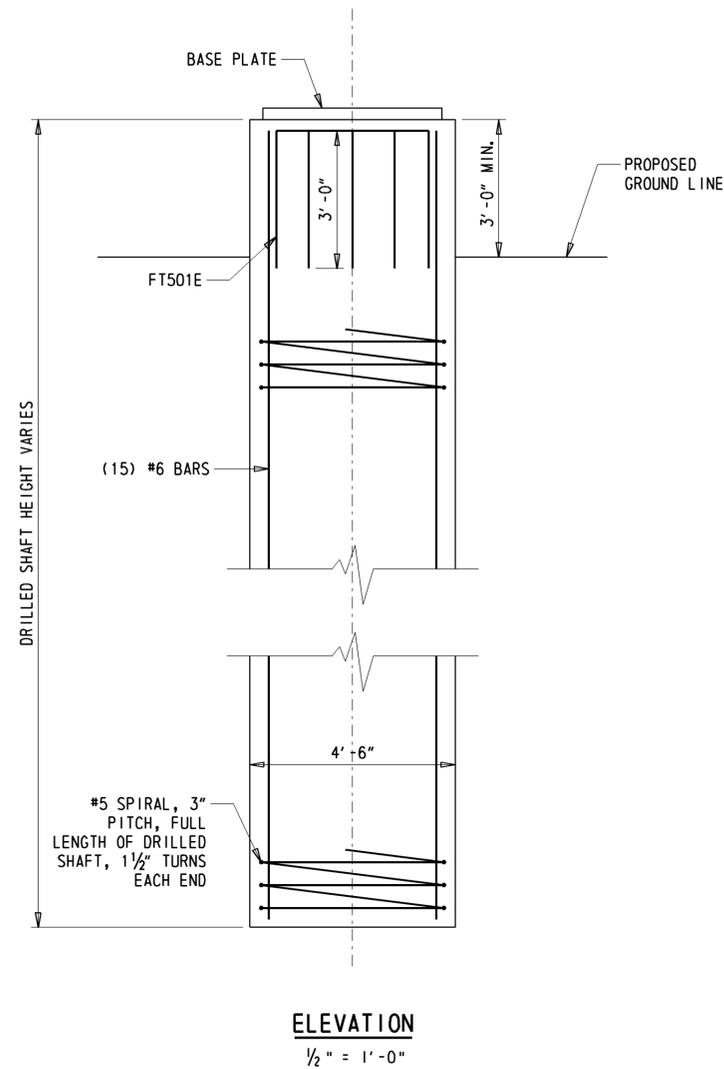
DESIGN STORM	FACILITY INFLOW	FACILITY DISCHARGE	WATER SURFACE ELEVATION	STORAGE VOLUME (AC. FT)
1 - YEAR	0.99 cfs	0.00 cfs	18.38 ft	0.040
2 - YEAR	1.82 cfs	0.00 cfs	18.68 ft	0.075
10 - YEAR	5.12 cfs	0.00 cfs	19.96 ft	0.268
100 - YEAR	12.86 cfs	0.00 cfs	22.15 ft	0.769

HAZARD CLASSIFICATION: CLASS A AS PER POND CODE 378
 DRAINAGE AREA TO FACILITY: 2.86 ACRES
 MANAGEMENT PROVIDED BY FACILITY: WATER QUALITY BY EXTENDED DETENTION OF FIRST 2.0" OF RUNOFF, WATER QUANTITY FOR 2, 10 & 100 YEAR STORMS.

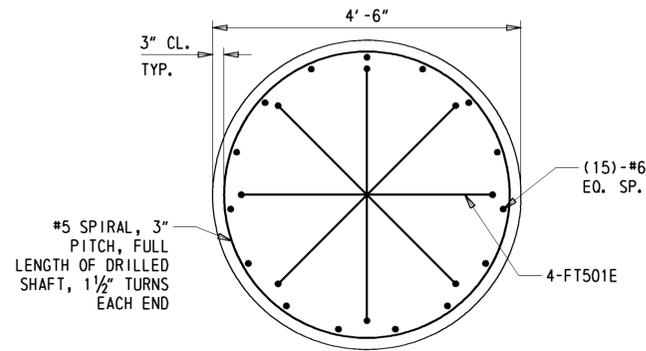
PRINCIPAL SPILLWAY

STATION	NORTHING	EASTING
1) POB STA 0+00	349467.4541	652758.6476
2) PISTA 0+85.10	349548.2565	652785.3499
3) POE STA 2+40.33	349693.7292	652731.1847





ELEVATION
1/2" = 1'-0"



PLAN
3/4" = 1'-0"

CANTILEVER DRILLED SHAFT DETAILS

DRILLED SHAFT SCHEDULE				
STRUCTURE NUMBER	SHAFT HEIGHT	DIAMETER (FT)	REINFORCING LENGTH	
			VERTICAL	SPIRAL
SC 2024	20	4.5	19.5	19.5
SC 2025	20	4.5	19.5	19.5

NOTES:

- ALL ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO FABRICATION AND CONSTRUCTION.
- APPROVED METAL SPACERS SHALL BE ATTACHED TO THE TOP AND BOTTOM SPIRALS TO ENSURE THAT THE REQUIRED CLEAR DISTANCE TO THE CASING IS MAINTAINED.
- COST OF SOIL EXCAVATION, REINFORCING STEEL AND CONCRETE IN DRILLED SHAFT SHALL BE INCLUDED IN THE PRICE FOR ITEM ~~618526 - DRILLED SHAFT FOUNDATION~~ AT NO ADDITIONAL COST TO THE DEPARTMENT. ~~605664 - STEEL SIGN STRUCTURE~~
- IT IS THE RESPONSIBILITY OF THE PROSPECTIVE CONTRACTORS AND SUBCONTRACTORS TO INSPECT THE SITES IN THE FIELD WHERE DRILLED SHAFTS WILL BE BUILT PRIOR TO SUBMITTING THEIR PROPOSALS, TO DETERMINE THE ACCESSIBILITY TO THE VARIOUS LOCATIONS, ASCERTAIN THE CONDITIONS UNDER WHICH THE WORK WILL BE CONDUCTED, AND ESTABLISH THE EQUIPMENT THAT WILL BE REQUIRED TO EXPEDITIOUSLY PERFORM THE WORK, INCLUDING WORK IN ANY AREAS WITH LOW OVERHEAD AND/OR NEAR HIGH TENSION POWER LINES OR ADJACENT TO ACTIVE TRAFFIC.
- DRILLED SHAFT INSTALLATIONS SHALL BE IN ACCORDANCE TO ITEM 618526 - DRILLED SHAFT FOUNDATION AND PERFORMED BY A SPECIALTY CONTRACTOR EXPERIENCED IN DRILLED FOUNDATION CONSTRUCTION WITH SUITABLE EQUIPMENT AND COMPETENT PERSONNEL. THE SPECIALTY CONTRACTOR SHALL BE SUBJECT TO ENGINEER APPROVAL.
- SOILS BENEATH EXISTING GROUND SURFACE MAY CONTAIN OBSTRUCTIONS, SUCH AS COBBLES AND BOULDERS. CLASSIFICATION SHALL BE BASED ON SECTION 205.02 OF THE STANDARDS AND SOIL OR ROCK EXCAVATION PAID ACCORDINGLY.
- CONSTRUCTION OF DRILLED SHAFT FOUNDATIONS MAY REQUIRE THE USE OF TEMPORARY CASING. THE LENGTH OF DRILLED SHAFT SHALL BE ADJUSTED IN THE FIELD AS REQUIRED.
- IF DRILLED SHAFT EXCAVATION IS UNSHORED (TEMPORARY CASING) CONCRETE SHALL BE PLACED IN THE SAME WORKING DAY AS EXCAVATION TAKES PLACE.

ADDENDUMS / REVISIONS

REVISED NOTES #3 & #5. PAM 10/17/14

SCALE: AS NOTED

**SR1, THOMPSONVILLE
GRADE SEPARATED
INTERSECTION**

CONTRACT	STRUCTURE NO.	SC 2024/2025
24-122-01	DESIGNED BY:	E.M.
COUNTY	CHECKED BY:	
KENT		

FOUNDATION DETAILS

SHEET NO.	179
TOTAL SHTS.	183