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| | STORMWATER MANAGEMENT FACILITY CONSTRUCTION SEQUENCE AND NOTES: THE STORMWATER MANAGEMENT FACILITY SHALL FUNCTION AS A SEDIMENT BASIN DURING ROADWAY CONSTRUCTION AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE STANDARD SPECIFICATIONS: SECTION 271 - STORMWATER MANAGEMENT POND SECTION 272 - POND OUTLET STRUCTURE, CONCRETE |
|-------------|--|
| | 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE PER CONSTRUCTION PHASING, MOT AND EROSION AND SEDIMENT CONTROL PLANS. |
| | 2. CLEAR AND GRUB FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS. |
| | 3. INSTALL PERIMETER SEDIMENT CONTROLS AS SHOWN ON THE CONSTRUCTION PHASING PLANS, MOT AND EROSION AND SEDIMENT CONTROL PLANS. |
| | 4. CLEAR AND GRUB REMAINING AREA FOR STORMWATER MANAGEMENT FACILITY CONSTRUCTION. |
|) / / | 5. CONSTRUCT BASIN OUTLET WEIR WALL STRUCTURE AND RIPRAP PROTECTION AT OUTLET AS SHOWN. DE-WATER FOUNDATION AS NEEDED IN ACCORDANCE WITH SECTION 111 AND USE SUMP PIT FOR PUMPING. LOCATION OF SUMP PIT TO BE DETERMINED IN FIELD. INSTALL SKIMMER DEWATERING DEVICE AND OTHER TEMPORARY MODIFICATIONS AS NOTED ON CONSTRUCTION PHASING, M.O.T. AND EROSION CONTROL PLANS, SHEET CS-204. |
| | 6. EXCAVATE THE FACILITY AND COMPLETE THE BASIN TO LINES, GRADES, AND DETAILS SHOWN IN THE CONSTRUCTION PLANS; HOWEVER, GRADING SHALL ONLY BE COMPLETED TO 2-FEET ABOVE THE PERMANENT BOTTOM OF THE INFILTRATION BASIN TO PREVENT CLOGGING OF THE PERMANENT FACILITY. DURING EXCAVATION, THE CONTRACTOR SHALL SALVAGE AND STOCKPILE ANY SOILS CLASSIFIED AS CH, CL, CH, AND GM PER THE UNIFIED SOIL CLASSIFICATION SYSTEM TO BE USED TO CONSTRUCT EMBANKMENT. THE ABOVE CLASSIFIED SOILS MAY BE OBTAINED FROM ELSEWHERE WITHIN THE PROJECT LIMITS. |
| | 7. STABILIZE ALL BARE AREAS BELOW 38.00, INCLUDING THE BOTTOM OF THE BASIN, WITH WET SEED MIX AND ABOVE 38.00 WITH DRY SEED MIX IN ACCORANCE WITH TURF ESTABLISHMENT SPECIFICATIONS. |
| | <u>MAINTENANCE OF STORMWATER MANAGEMENT FACILITY AS A SEDIMENT BASIN</u> 1. CONTRACTOR SHALL INSPECT THE BASIN IMMEDIATELY AFTER EVERY RAIN AND MAKE REPAIRS AS NEEDED. |
| | 2. CONTRACTOR SHALL CLEARLY MARK THE CLEANOUT ELEVATION, 39.38, ON A STAKE DRIVEN INTO THE GROUND AT A LOCATION CLEARLY VISIBLE FROM THE EMBANKMENT. SEDIMENT SHALL BE REMOVED WHEN CLEANOUT ELEVATION IS REACHED AND DISPOSED OF AT A LOCATION APPROVED BY THE ENGINEER. |
| | <u>CONVERSION TO PERMANENT STORMWATER MANAGEMENT FACILITY</u> 1. CONVERT THE BASIN INTO THE PERMANENT STORMWATER MANAGEMENT FACILITY AFTER ALL AREAS DRAINING TO THE BASIN HAVE BEEN PERMANENTLY STABILIZED AND THE ENGINEER HAS APPROVED THE CONVERSION. |
| | 2. REMOVE EXCESS ACCUMULATED SEDIMENT ON THE POND BOTTOM AND BENCHES, IF ANY, AND COMPLETE EXCAVATION TO THE SPECIFIED FINISHED LINES AND GRADES SHOWN ON THE PLAN AND DISPOSE SEDIMENT AND EXCAVATED MATERIALS AT A LOCATION APPROVED BY THE ENGINEER. SEDIMENT REMOVAL AND EXCAVATION TO FINAL GRADES SHALL BE PAID UNDER ITEM 250000-SEDIMENT REMOVAL. |
| | 3. PUMP DOWN STANDING WATER IN THE BASIN AS NECESSARY. |
| | 4. COMPLETE STABILIZATION OF ALL BARE AREAS, REMOVE EROSION AND SEDIMENT CONTROL MEASURES AND REMOVE SKIMMER DEWATERING DEVICE AND PLYWOOD. |
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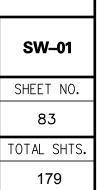
| BMP NO. 756 – DESIGN SUMMARY | | | | | | | | |
|------------------------------|-----------------------------|--------------------------------|-------------------------------|------------------------------|--|--|--|--|
| DESIGN STORM | FACILITY INFLOW (CFS) | FACILITY DISCHARGE (CFS) | WATER SURFACE ELEVATION | STORAGE VOLUME (AC-FT) | | | | |
| 1-YEAR | 3.3 | 0.0 | 38.00 | 0.00 | | | | |
| 10-YEAR | 9.0 | 1.2 | 39.30 | 0.53 | | | | |
| 100-YEAR | 18.6 | 4. 2 | 40.28 | 1.05 | | | | |

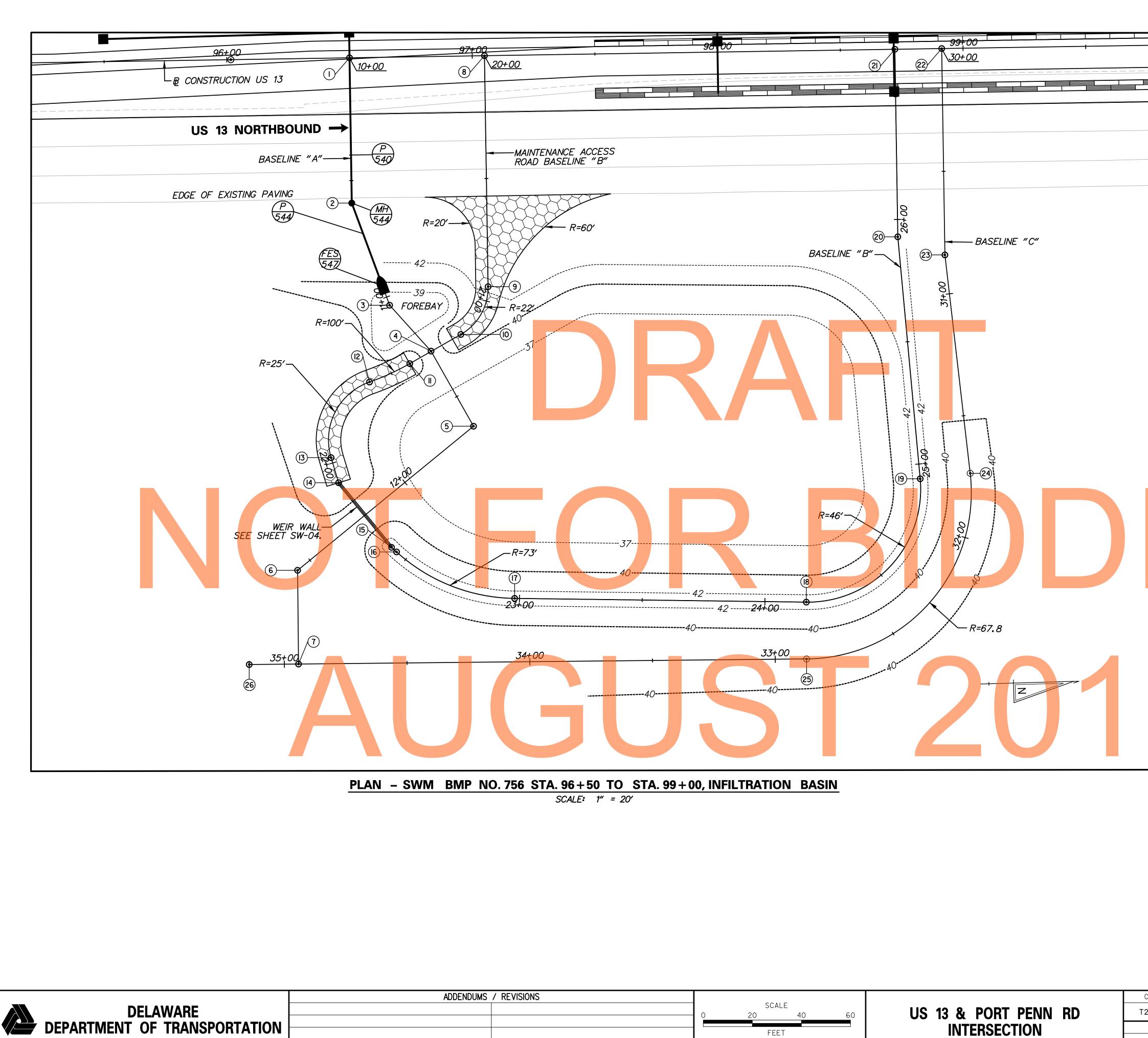
HAZARD CLASSIFICATION "A" AS PER POND CODE 378

DRAINAGE AREA TO FACILITY: 4.47 ACRES

MANAGEMENT PROVIDED BY FACILITY: WATER QUALITY CONTROL VIA INFILTRATION FOR 1-YEAR RESOURCE PROTECTION STORM AND QUANTITY CONTROL FOR THE 10 AND 100-YEAR EVENTS.

| CONTRACT | BRIDGE NO. | |
|-----------|------------------|----------------------------|
| 201011302 | | STORMWATER |
| COUNTY | DESIGNED BY: DLH | MANAGEMENT PLAN BMP 756 |
| W CASTLE | CHECKED BY: JDC | DIVIP / 30 |





| VISIONS | 0 | SCA 20 | 40 | 60 | US 13 & PORT PENN RD INTERSECTION |
|---------|---|-----------|----|----|--------------------------------------|
| | | FEE | ΞT | | INTERSECTION |

| BASELINE "A" STAKEOUT INFORMATION | | | | | | | | |
|--------------------------------------|------------------|--------------------|--------------------|--|--|--|--|--|
| POINT NO. | STATION | NORTHING | EASTING | | | | | |
| 1 | POB STA.10+00.00 | 551929.96 | 59059I . 55 | | | | | |
| 2 | PI STA.10+59.18 | 55l929 . l7 | 590650.73 | | | | | |
| 3 | PI STA.II+03.54 | 551943.40 | 590692.75 | | | | | |
| 4 | PI STA.II+28.70 | 551959.72 | 5907II . 90 | | | | | |
| 5 | PI STA.II+63.86 | 551976.14 | 590742.99 | | | | | |
| 6 | PI STA.12+56.50 | 551902.80 | 590799 . 57 | | | | | |
| 7 | POE STA.12+94.68 | 551902.08 | 590837.74 | | | | | |

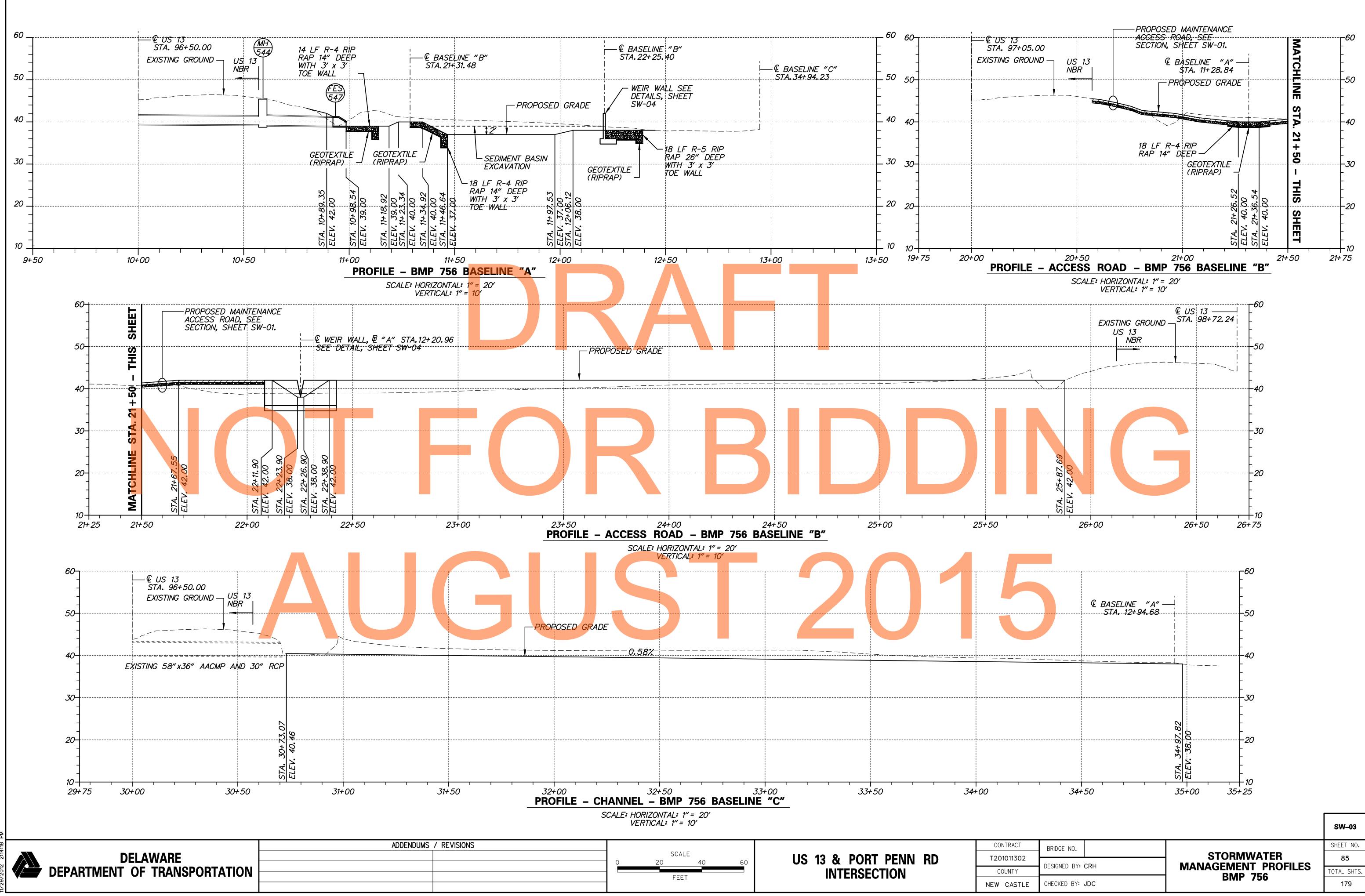
| ACCESS ROAD BASELINE "B" STAKEOUT INFORMATION | | | | | | | |
|--|------------------|--------------------|--------------------|--|--|--|--|
| POINT NO. | STATION | NORTHING | EASTING | | | | |
| 8 | POB STA.20+00.00 | 551984.95 | 590592 . 28 | | | | |
| 9 | PC STA.20+94.08 | 551983.71 | 590686 . 35 | | | | |
| 10 | PT STA.2I+I7.56 | 551972.06 | 590705 . 47 | | | | |
| I | PI STA.2I+4I.54 | 551950.91 | 590716.75 | | | | |
| 12 | PRC STA.2I+59.60 | 551934.29 | 590723.78 | | | | |
| 13 | PT STA.2I+97.73 | 551917.77 | 590754 . II | | | | |
| 14 | PI STA. 22+08.40 | 551920.55 | 590764.40 | | | | |
| 15 | PI STA. 22+42.40 | 551941.32 | 59079I . 32 | | | | |
| 16 | PC STA.22+45.18 | 551943.32 | 590793 . 25 | | | | |
| 17 | PT STA.22+92.02 | 551990.87 | 5908I3 . 55 | | | | |
| 18 | PC STA.24+16.87 | 552109.61 | 590818.50 | | | | |
| 19 | PT STA.24+93.97 | 552157.44 | 590769 . 63 | | | | |
| 20 | PI STA.25+92.92 | 552151.16 | 590670 . 87 | | | | |
| 21 | POE STA.26+69.31 | 552I52 . I7 | 590594.49 | | | | |

| CHANNEL BASELINE "C" STAKEOUT INFORMATION | | | | | | | | |
|--|--|--------------------------------|----------------------|-----------|--|--|--|--|
| POINT NO. | | STATION | NORTHING | EASTING | | | | |
| 22 | | POB STA.30+00.00 | 552171 . 2491 | 590594.74 | | | | |
| 23 | | PISTA.30+84.06 | 552170 . 1391 | 590678.79 | | | | |
| 24 | | PC STA.3I+73.60 | 552177.8672 | 590768.00 | | | | |
| 25 | | PT STA.32+87.23 | 552109.0479 | 590841.63 | | | | |
| 26 | | POE STA <mark>.35+I4.32</mark> | 551881.9924 | 590837.36 | | | | |
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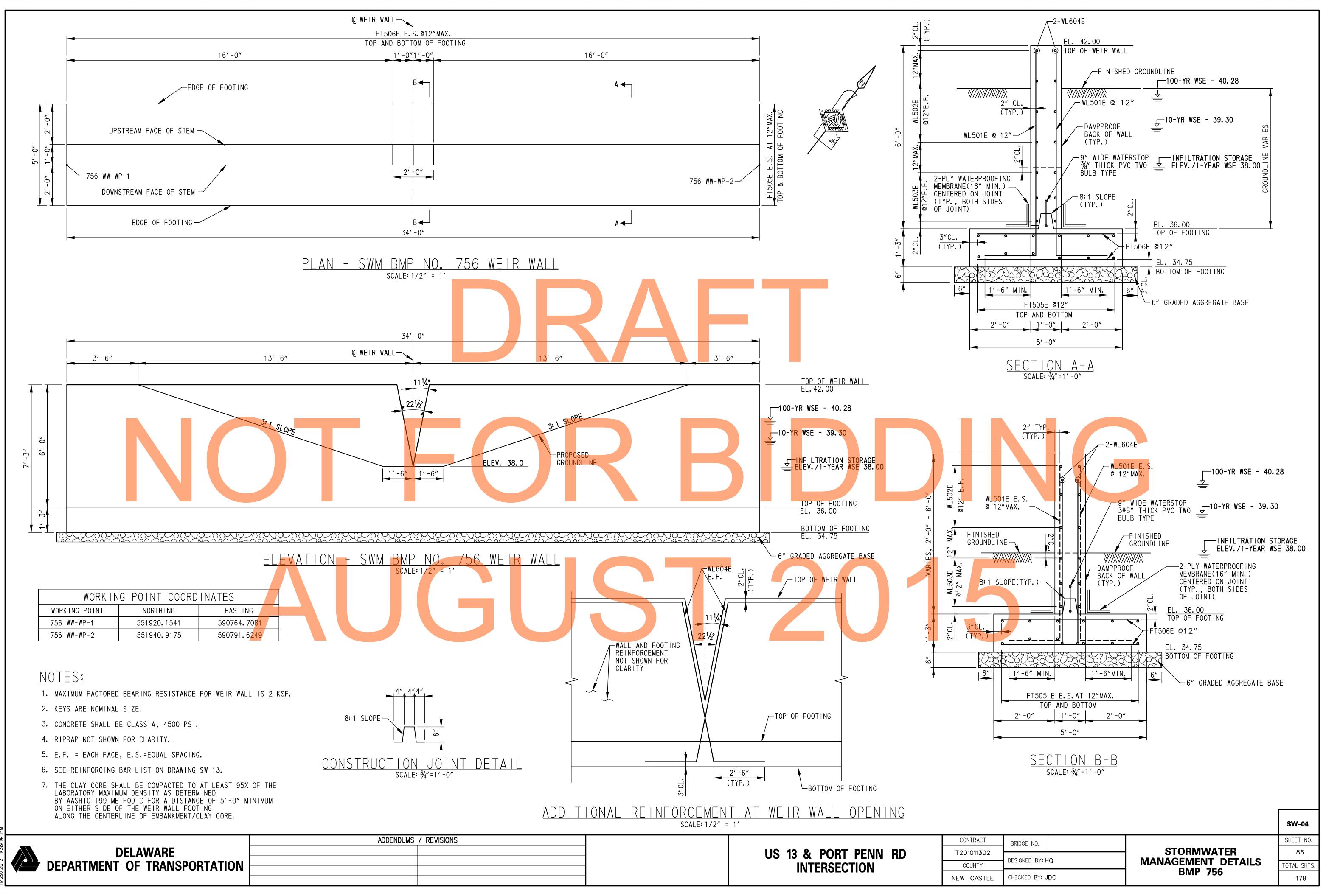
| CONTRACT | BRIDGE NO. | | | | |
|------------|------------------|--|--|--|--|
| T001011700 | | | | | |
| T201011302 | DESIGNED BY: CRH | | | | |
| COUNTY | DESIGNED BI. CRH | | | | |
| NEW CASTLE | CHECKED BY: JDC | | | | |

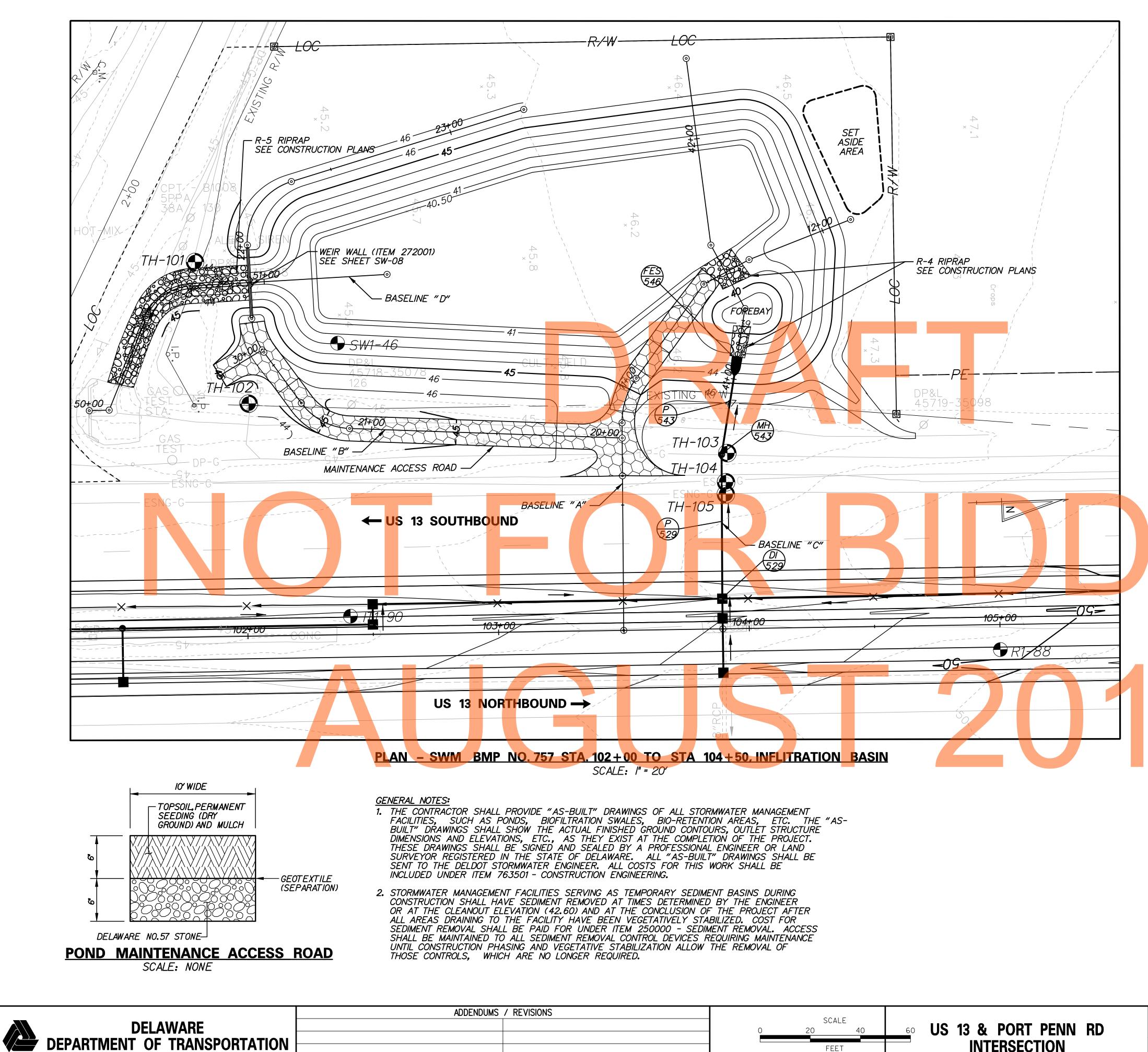


SW-02 SHEET NO. 84 TOTAL SHTS.



3-000\Contract 1D\CADD\SW03-96BU301_1D.dgn





| DNS | SCALE O 20 40 FEET | 60 US 13 & PORT PENN RD INTERSECTION | C0 T20 C(NEW |
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| | | | NEW |

STORMWATER MANAGEMENT FACILITY CONSTRUCTION SEQUENCE AND NOTES: THE STORMWATER MANAGEMENT FACILITY SHALL FUNCTION AS A SEDIMENT BASIN DURING ROADWAY CONSTRUCTION AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE STANDARD SPECIFICATIONS: SECTION 271 - STORMWATER MANAGEMENT POND SECTION 272 - POND OUTLET STRUCTURE, CONCRETE

- 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE PER CONSTRUCTION PHASING. MOT AND EROSION AND SEDIMENT CONTROL PLANS.
- 2. CLEAR AND GRUB FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS.
- 3. INSTALL PERIMETER SEDIMENT CONTROLS AS SHOWN ON THE CONSTRUCTION PHASING PLANS, MOT AND EROSION AND SEDIMENT CONTROL PLANS.
- 4. CLEAR AND GRUB REMAINING AREA FOR STORMWATER MANAGEMENT FACILITY CONSTRUCTION.
- 5. CONSTRUCT BASIN OUTLET WEIR WALL STRUCTURE AND RIPRAP PROTECTION AT OUTLET AS SHOWN. DE-WATER FOUNDATION AS NEEDED IN ACCORDANCE WITH SECTION 111 AND USE SUMP PIT FOR PUMPING. LOCATION OF SUMP PIT TO BE DETERMINED IN FIELD. INSTALL SKIMMER DEWATERING DEVICE AND OTHER TEMPORARY MODIFICATIONS AS NOTED ON CONSTRUCTION PHASING, M.O.T. AND EROSION CONTROL PLANS, SHEET CS-204.
- 6. EXCAVATE THE FACILITY AND COMPLETE THE BASIN TO LINES, GRADES, AND DETAILS SHOWN IN THE CONSTRUCTION PLANS; HOWEVER, GRADING SHALL ONLY BE COMPLETED TO 1-FOOT ABOVE THE PERMANENT BOTTOM OF THE INFILTRATION BASIN TO PREVENT CLOGGING OF THE PERMANENT FACILITY. DURING EXCAVATION, THE CONTRACTOR SHALL SALVAGE AND STOCKPILE ANY SOILS CLASSIFIED AS CH, CL, CH, AND GM PER THE UNIFIED SOIL CLASSIFICATION SYSTEM TO BE USED TO CONSTRUCT EMBANKMENT. THE ABOVE CLASSIFIED SOILS MAY BE OBTAINED FROM ELSEWHERE WITHIN THE PROJECT LIMITS.
- 7. STABILIZE ALL BARE AREAS BELOW 41.50, INCLUDING THE BOTTOM OF THE BASIN, WITH WET SEED MIX AND ABOVE 41.50 WITH DRY SEED MIX IN ACCORANCE WITH TURF ESTABLISHMENT SPECIFICATIONS.

MAINTENANCE OF STORMWATER MANAGEMENT FACILITY AS A SEDIMENT BASIN 1. CONTRACTOR SHALL INSPECT THE BASIN IMMEDIATELY AFTER EVERY RAIN AND MAKE REPAIRS AS NEEDED.

2. CONTRACTOR SHALL CLEARLY MARK THE CLEANOUT ELEVATION, 42.60, ON A STAKE DRIVEN INTO THE GROUND AT A LOCATION CLEARLY VISIBLE FROM THE EMBANKMENT. SEDIMENT SHALL BE REMOVED WHEN CLEANOUT ELEVATION IS REACHED AND DISPOSED OF AT A LOCATION APPROVED BY THE ENGINEER.

- CONVERSION TO PERMANENT STORMWATER MANAGEMENT FACILITY CONVERT THE BASIN INTO THE PERMANENT STORMWATER MANAGEMENT FACILITY AFTER ALL AREAS DRAINING TO THE BASIN HAVE BEEN PERMANENTLY STABILIZED AND THE ENGINEER HAS APPROVED THE CONVERSION.
- 2. REMOVE EXCESS ACCUMULATED SEDIMENT ON THE POND BOTTOM AND BENCHES, IF ANY, AND COMPLETE EXCAVATION TO THE SPECIFIED FINISHED LINE'S AND GRADES SHOWN ON THE PLAN AND DISPOSE SEDIMENT AND EXCAVATED MATERIALS AT A LOCATION APPROVED BY THE ENGINEER. SEDIMENT REMOVAL AND EXCAVATION TO FINAL GRADES SHALL BE PAID UNDER ITEM 250000-SEDIMENT REMOVAL.

3. PUMP DOWN STANDING WATER IN THE BASIN AS NECESSARY.

COMPLETE STABILIZATION OF ALL BARE AREAS. REMOVE EROSION AND SEDIMENT CONTROL MEASURES AND REMOVE SKIMMER DEWATERING DEVICE AND PLYWOOD.

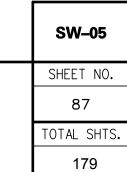
| BMP NO. 757 – DESIGN SUMMARY | | | | | | | | | |
|------------------------------|-----------------------------|--------------------------------|-------------------------------|------------------------------|--|--|--|--|--|
| DESIGN STORM | FACILITY INFLOW (CFS) | FACILITY DISCHARGE (CFS) | WATER SURFACE ELEVATION | STORAGE VOLUME (AC-FT) | | | | | |
| 1-YEAR | 6.5 | 0.0 | 42.00 | 0.30 | | | | | |
| 10-YEAR | 15.3 | 2.4 | 43.84 | 0.67 | | | | | |
| 100-YEAR | 29.3 | 8.0 | 45.03 | 1.19 | | | | | |

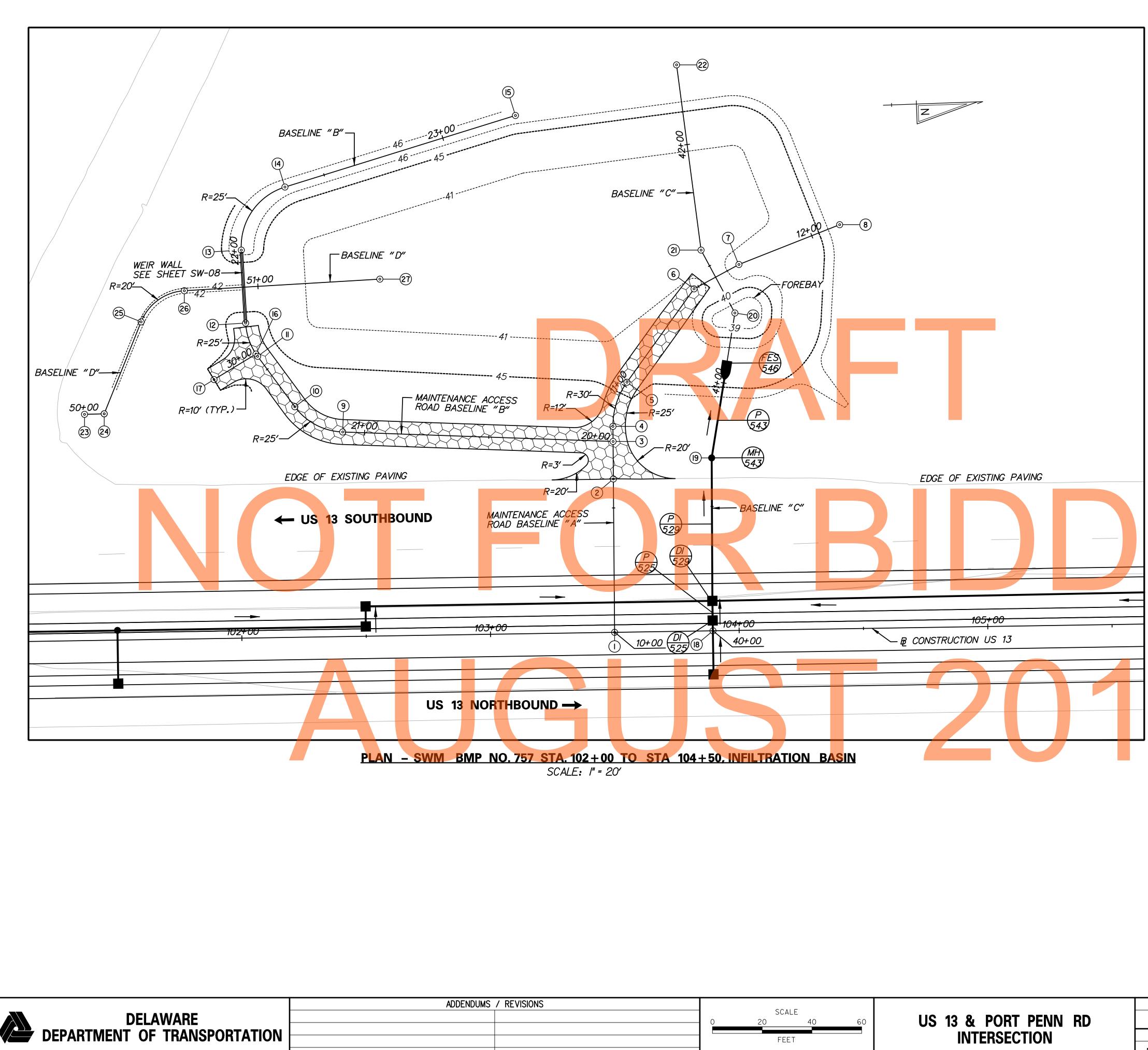
HAZARD CLASSIFICATION "A" AS PER POND CODE 378

DRAINAGE AREA TO FACILITY: 4.86 ACRES

MANAGEMENT PROVIDED BY FACILITY: WATER QUALITY CONTROL VIA INFILTRATION FOR 1-YEAR RESOURCE PROTECTION STORM AND QUANTITY CONTROL FOR THE 10 AND 100-YEAR EVENTS.

| CONTRACT | BRIDGE NO. | |
|-----------|------------------|----------------------------|
| 201011302 | | STORMWATER |
| COUNTY | DESIGNED BY: DLH | MANAGEMENT PLAN BMP 757 |
| W CASTLE | CHECKED BY: JDC | DIVIP /5/ |





| NS | 00445 | |
|----|---------------------------|----------------------|
| | SCALE 0 <u>2040</u> 60 | US 13 & PORT PENN RD |
| | FEET | INTERSECTION |
| | | |

| ACCESS ROAD BASELINE "A" STAKEOUT INFORMATION | | | | |
|--|------------------|--------------------|--------------------|--|
| POINT NO. | STATION | NORTHING | EASTING | |
| 1 | POB STA.10+00.00 | 552629.81 | 590600.80 | |
| 2 | PI STA.10+61.66 | 55263I . 09 | 590539 . I5 | |
| 3 | PI STA.10+76.74 | 55263I . 40 | 590524.08 | |
| 4 | PC STA.IO+82.79 | 55263I . 52 | 590518.02 | |
| 5 | PT STA.II+0I.73 | 552637.67 | 590500.44 | |
| 6 | PI STA.11+47.96 | 552665.72 | 590463.70 | |
| 7 | PI STA.II+68.49 | 552684.04 | 590454.43 | |
| 8 | POE STA.12+12.06 | 552725.00 | 590439 . 60 | |

| Α | ACCESS ROAD BASELINE "B" STAKEOUT INFORMATION | | | | |
|--------------|--|--------------------|--------------------|--|--|
| POINT NO. | STATION | NORTHING | EASTING | | |
| 3 | POB STA.20+00.00 | 55263I . 40 | 590524.08 | | |
| 9 | PC STA.2I+08.80 | 552522.82 | 5905l7 . l4 | | |
| 10 | PT STA.2I+3I.32 | 552503.87 | 590506.44 | | |
| I | PC STA.2I+56.5I | 552489.51 | 590485.74 | | |
| 12 | PT STA.2I+70.9I | 552485.06 | 590472.25 | | |
| 13 | PC STA.22+00.29 | 552484.17 | 590442.88 | | |
| 14 | PT STA.22+33.52 | 552502.44 | 590418.04 | | |
| 15 | POE STA.23+30.58 | 552595.93 | 590391.96 | | |
| | | | | | |
| 16 | POB STA,30+00.00 | 552488.86 | 590484.81 | | |
| 17 | POE STA.30+19.75 | 552471.70 | 590494.57 | | |

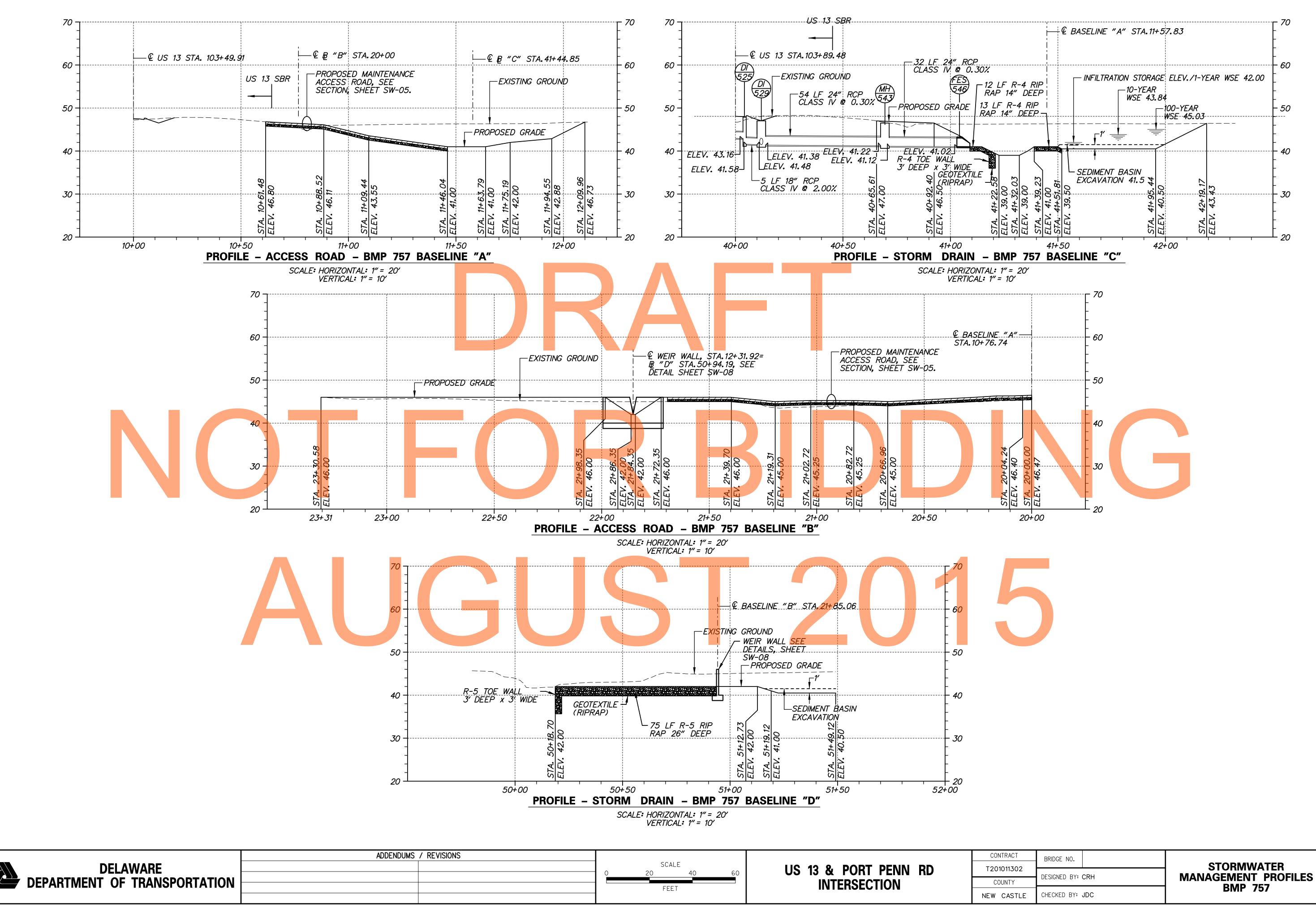
| BASELINE "C" STAKEOUT INFORMATION | | | | | |
|--------------------------------------|------------------|-----------|--------------------|--|--|
| POINT NO. | STATION | NORTHING | EASTING | | |
| 18 | POB STA.40+00.00 | 552669.37 | 59060I . 32 | | |
| 19 | PI STA.40+69.51 | 552670.85 | 59053I . 83 | | |
| 20 | PI STA.4I+28.5I | 552681.86 | 590473 . 86 | | |
| 21 | PI STA.4I+57.2I | 552669.00 | 590448.20 | | |
| 22 | POE STA.42+32.32 | 552661.29 | 590373 . 48 | | |
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| BASELINE "D" STAKEOUT INFORMATION | | | | | |
|--------------------------------------|------------------|--------------------|--------------------|--|--|
| POINT NO. | STATION | NORTHING | EASTING | | |
| 23 | POB STA.50+00.00 | 552419.24 | 590507.05 | | |
| 24 | PI STA.50+07.92 | 552427 . I6 | 590507.06 | | |
| 25 | PC STA.50+47.75 | 552443.05 | 590470 . 55 | | |
| 26 | PT STA.50+70.34 | 552460.78 | 590458.54 | | |
| 27 | POE STA.5I+49.12 | 552539 . 53 | 590456.15 | | |
| | | | | | |

CONTRACT BRIDGE NO. T201011302 DESIGNED BY: DLH COUNTY CHECKED BY: JDC NEW CASTLE



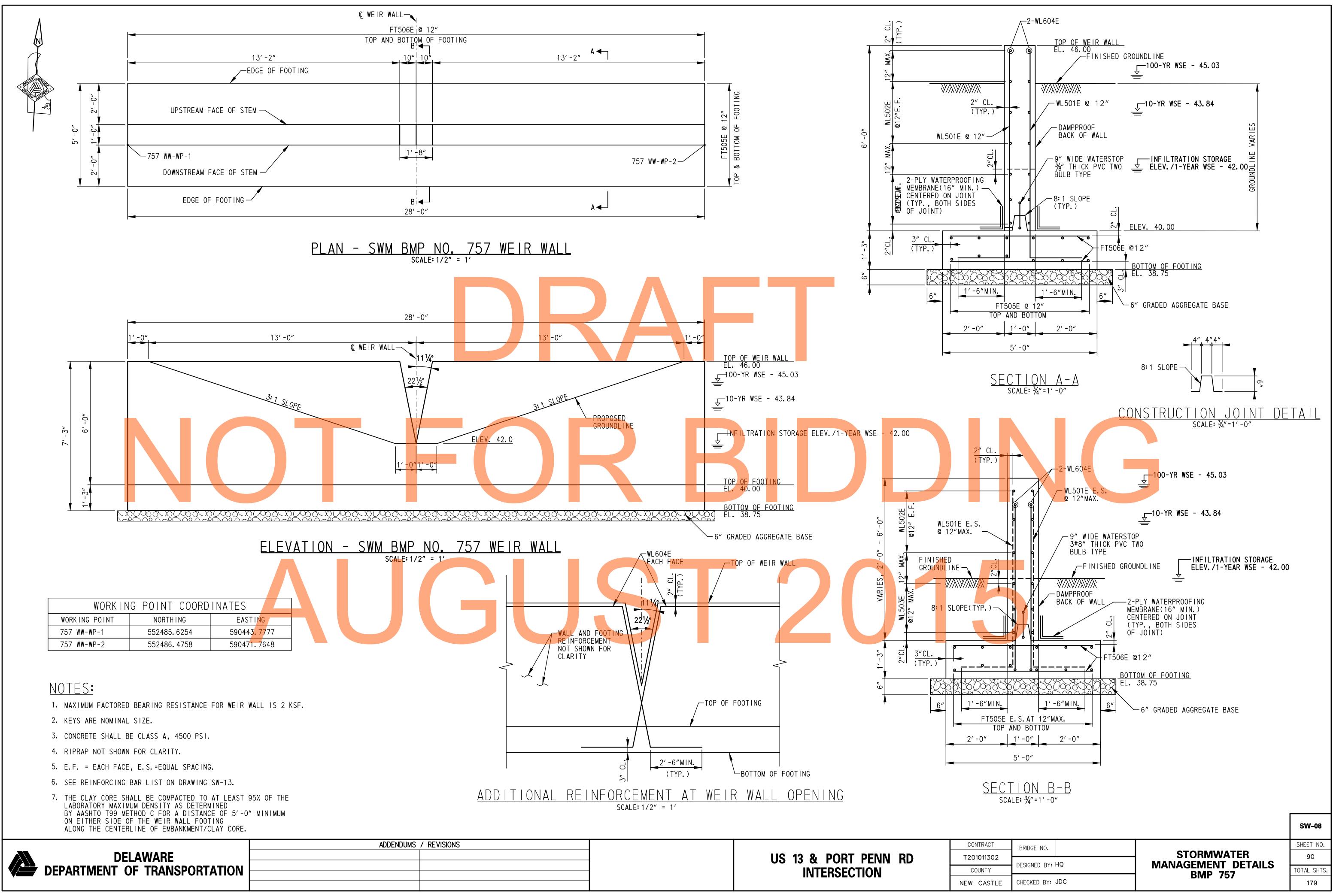
SW-06 SHEET NO. 88



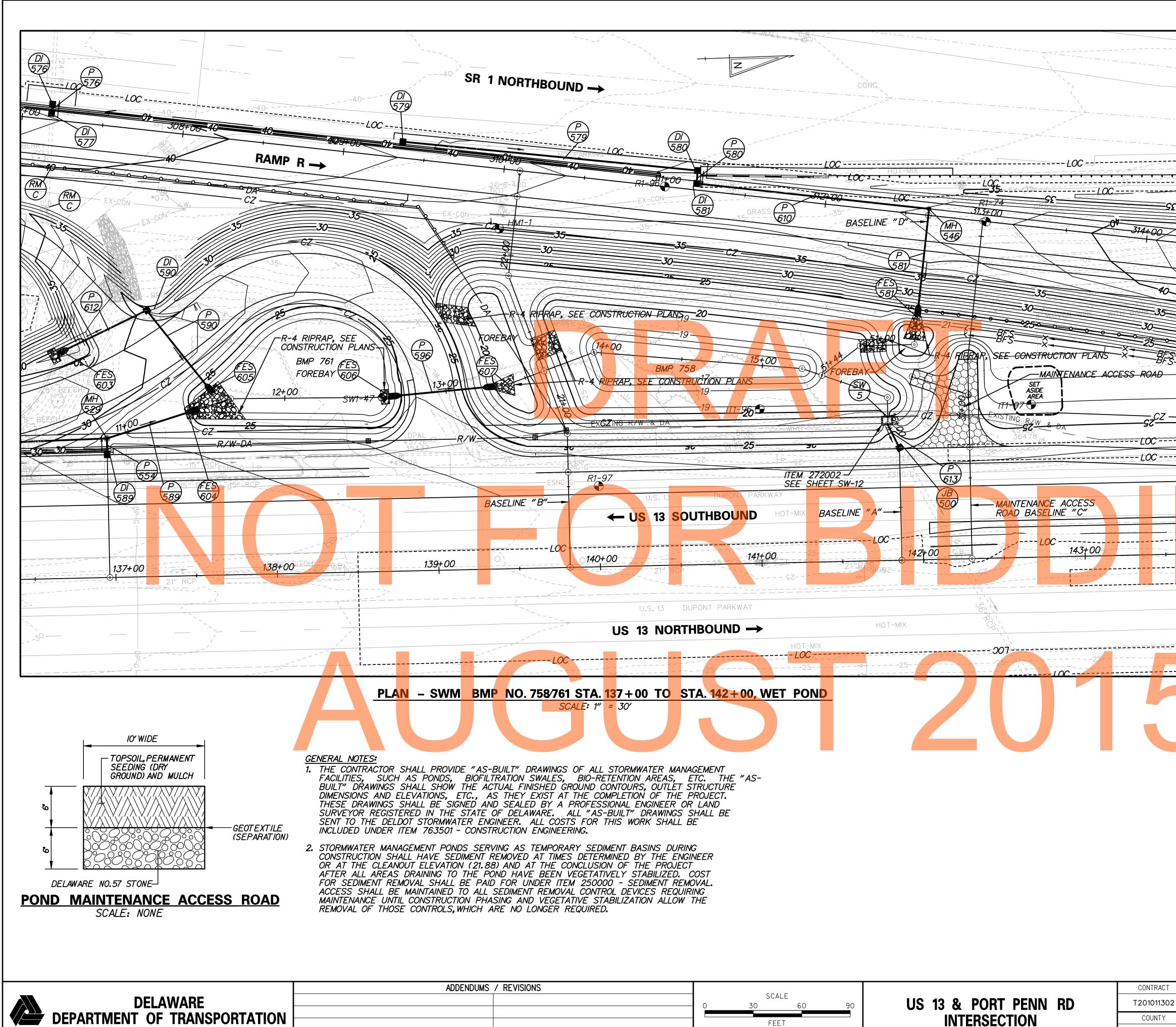
| CONTRACT | BRIDGE NO. | |
|-----------|------------------|--|
| 201011302 | | |
| 201011302 | DESIGNED BY: CRH | |
| COUNTY | | |
| W CASTLE | CHECKED BY: JDC | |

SW-07 SHEET NO. 89

OTAL SHTS 179



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| SEDMENT BASIN DURING ROADWAY CONSTRUCTION AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE STANDARD SPECIFICATIONS: SECTION 272 - STOND OUTLET STRUCTURE, CONCRETE 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE PER CONSTRUCTION PHASING, MOT AND EROSION AND SEDMENT CONTROL PLANS. 2. CLEAR AND GRUB FOR INSTALLATION OF PERMETER EROSION AND SEDMENT CONTROLS. 3. INSTALL PERMETER SEDMENT CONTROLS AS SHOWN ON THE CONSTRUCTION PHASING PLANS, MOT AND EROSION AND SEDMENT CONTROL PLANS. 4. CLEAR AND GRUB REMAINING AREA FOR POND CONSTRUCTION. 5. CONSTRUCT POND OUTLET STRUCTURE, PRINCIPAL SPILLWAY, AND JUNCTION BOX AT DOWNSTREAM END OF PRINCIPAL SPILLWAY, AND NEEDED IN STALL POND OUTLET STRUCTURE, INSTALL SKIMMER DURATERING DURCE, DE VIEWAL EXOLVATE AS NEEDED TO INSTALL POND OUTLET STRUCTURE, INSTALL SKIMMER BURATERING DURCE, DE VIEWAL EXOLVATE AS NEEDED TO INSTALL POND OUTLET STRUCTURE, INSTALL SKIMMER BURATERING DURCE, DE VIEWAL EXOLVATE AS NEEDED TO INSTALL POND OUTLET STRUCTURE, INSTALL SKIMMER BURATERING DURCE, DE VIEWAL EXOLVATE AS NEEDED TO INSTALL POND OUTLET STRUCTURE, INSTALL SKIMMER BURATERING DURCE, DE VIEWAL EXOLVATE AS NEEDED TO INSTALL POND OUTLET STRUCTURE, INSTALL SKIMMER BURATERING DURCE, DE VIEWAL EXOLVATE AND COMPLETE THE BASIN TO INFE SOUND OF THE LD. 6. EXCALATE THE POND AND COMPLETE THE BASIN TO INFE SOUND AS NEEDED INFERD OF THE POOL 2 FEET FOR SEDMENT STORAGE, DURING EXOLVATES, MAN AND ABOVE ELEVATION 21.00 WITH DRY SEED MAX. MAY SOLS CLASSIFIED AS CH. CL, CH, AND CM PET THE UNRED SOL, CHERNENTSTICTON PHASINGED THE POND INTE BED TERMINED THE PROJECT LIMITS. 7. STABILIZE AND THE PROJECT LIME BASIN MIDID THE POND DUSTON WITH WET SEED MIX AND ABOVE ELEVATION AT A LOCATION CLEARLY UNRED SOL, CONTRACTOR SA REPARS AS NEE | | RUCTION SEQUENCI ATER MANAGEMEN | | FUNCTION AS A | 1 | |
|---|---|--|--|---|---|--|
| SECTION 271 - STORWATER MANAGEMENT POND SECTION 272 - POND OUTLET STRUCTURE, CONCRETE 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE PER CONSTRUCTION PHASING, MOT AND EROSION AND SEDMENT CONTROL PLANS. 2. CLEAR AND GRUB FOR INSTALLATION OF PERIMETER EROSION AND SEDMENT CONTROLS. 3. INSTALL PERMETER SEDMENT CONTROLS AS SHOWN ON THE CONSTRUCTION PHASING PLANS, MOT AND EROSION AND SEDMENT CONTROL PLANS. 4. CLEAR AND GRUB REMAINING AREA FOR POND CONSTRUCTION. 5. CONSTRUCTOR PHASING FLANS, MOT AND EROSION AND SEDMENT CONTROL PLANS. 6. CLEAR AND GRUB REMAINING AREA FOR POND CONSTRUCTION. 7. CONSTRUCTOR DONUSTREAM END OF PRINCIPAL SPILLWAY, AND JUNCTION BOX AT LOOMSTREAM END OF PRINCIPAL SPILLWAY. EXCAVATE AS NEEDED TO INSTALL POND OUTLET STRUCTURE. INSTALL SKIMMER DEWATERING DIVERCE, DE PRINCIPAL SPILLWAY, EXCAVATE THE POND AND COMPLETE THE BASIN TO LINES, GRADES, AND DETAILS SIMMENT IN THE CONSTRUCTOR PLANS, OVERES, AND THE BOTTOM OF THE POOL 2 FEET FOR SEDMENT STORAGE, DURING EXCAVATE, THE POND AND COMPLETE THE BASIN TO LINES, GRADES, AND DETAILS SIMMENT IN THE CONSTRUCTOR PLANS, OVERECAVATE THE BOTTOM OF THE POOL 2 FEET FOR SEDMENT STORAGE, DURING EXCAVATION, THE CONTRACTOR STALL SALVAGE AND STOCKAVILE ANY SOLS CLASSIFIED AS CH. CL, CH, AND GM PET THE UNRIED SOL CLASSIFIED AS CH. CL, CH, AND GM PET THE BOTTOM OF THE POOL 2 AS SEDMENT STORAGE, DURING EXCAVATION, THE CONTRACTOR STALL SALVAGE AND STOCKAVILE ANY SOLS CLASSIFIED AS CHECUL UNITS. 9. STABILIZE ALL BARE AREAS BELOW 21.00, EXCLUDING THE POND BOTTOM WITH WET SEED MIX AND ABOVE ELEVATION 21.00 WITH DRY SEED MIX. 9. STABILIZE ALL BARE AREAS BELOW 21.00, EXCLUDING THE POND A STARE DRIVEN INTO THE GROUND AT A LOCATION CLEARLY VISIBLE | SEDIMENT BA | SIN DURING ROAD | WAY CONSTRUCT WITH THE FOLL | TION AND SHAL | L BE | |
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| 2. REMOVE EXCESS ACCUMULATED SEDIMENT ON THE POND BOTTOM AND BENCHES, IF ANY, TO THE SPECIFIED FINISHED LINES AND GRADES SHOWN IN THE PLAN AND DISPOSE SEDIMENT AT A LOCATION APPROVED BY THE ENGINEER. IF ELEVATION OF ACCUMULATED SEDIMENT IN POND BOTTOMS IS BELOW THE PROPOSED FINISHED ELEVATION, ADDITIONAL FILL MATERIAL SHALL NOT BE PLACED IN POND. 3. PUMP DOWN STANDING WATER IN THE POND AS NECESSARY. 4. COMPLETE STABILIZATION OF ALL BARE AREAS, REMOVE EROSION AND SEDIMENT CONTROL MEASURES, REMOVE SKIMMER DEWATERING DEVICE AND PLYWOOD, AND INSTALL CATCH BASIN TRAP. BMP NO. 758/761 - DESIGN SUMMARY <u>DES IGN STORM</u> <u>FAC IL ITY</u> <u>FAC IL ITY</u> <u>WATER</u> <u>STORAGE</u> VOLUME (CFS) <u>VOLUME</u> (CFS) <u>PERM. POOL</u> <u>N. A.</u> <u>N. A.</u> <u>20.00</u> <u>0.41</u> <u>1-YEAR</u> <u>16.9</u> <u>2.9</u> <u>21.46</u> <u>0.55</u> <u>10-YEAR</u> <u>44.4</u> <u>21.6</u> <u>22.72</u> <u>1.16</u> | MANAGEME HAVE BEE | NT POND AFTER A | ALL AREAS DRA STABILIZED AND | INING TO THE I | | |
| 4. COMPLETE STABILIZATION OF ALL BARE AREAS, REMOVE EROSION AND SEDIMENT CONTROL MEASURES, REMOVE SKIMMER DEWATERING DEVICE AND PLYWOOD, AND INSTALL CATCH BASIN TRAP. BMP NO. 758/761 – DESIGN SUMMARY DESIGN STORM FACILITY FACILITY WATER STORAGE (CFS) USCHARGE SURFACE VOLUME (CFS) PERM. POOL N. A. N. A. 20.00 0.41 1-YEAR 16.9 2.9 21.46 0.55 10-YEAR 44.4 21.6 22.72 1.16 | 2. REMOVE E AND BENC GRADES S LOCATION ACCUMULA PROPOSED | XCESS ACCUMULA HES, IF ANY, TO HOWN IN THE PLA APPROVED BY TH TED SEDIMENT IN FINISHED ELEVAT | TED SEDIMENT (THE SPECIFIED AN AND DISPOSE E ENGINEER, IF POND BOTTOMS TION, ADDITIONAL | FINISHED LINES E SEDIMENT AT ELEVATION OF IS BELOW THE | S AND A E | |
| AND SEDIMENT CONTROL MEASURES, REMOVE SKIMMER DEWATERING DEVICE AND PLYWOOD, AND INSTALL CATCH BASIN TRAP.BMP NO. 758/761 – DESIGN SUMMARYDES IGN STORMFAC IL ITY INFLOW (CFS)FAC IL ITY D ISCHARGE (CFS)WATER SURFACE URFACE (CFS)STORAGE VOLUME (AC-FT)PERM. POOLN. A.N. A.20.000.411-YEAR16.92.921.460.5510-YEAR44.421.622.721.16 | 3. PUMP DOV | VN STANDING WATL | ER IN THE PON | D AS NECESSA | RY. | |
| DES IGN STORM FAC IL ITY INFLOW (CFS) FAC IL ITY DISCHARGE (CFS) WATER SURFACE ELEVATION STORAGE VOLUME (AC-FT) PERM. POOL N. A. N. A. 20.00 0.41 1-YEAR 16.9 2.9 21.46 0.55 10-YEAR 44.4 21.6 22.72 1.16 | AND SEDIN | IENT CONTROL ME | ASURES, REMOV | E ŚKIMMER | | |
| DESIGN STORMFACILITY INFLOW (CFS)FACILITY DISCHARGE (CFS)WATER SURFACE ELEVATIONSTORAGE VOLUME (AC-FT)PERM. POOLN. A.N. A.20.000.411-YEAR16.92.921.460.5510-YEAR44.421.622.721.16 | B | MP NO. 758/7 | 61 – DESIGN | | RY | |
| PERM. POOL N. A. N. A. 20.00 0.41 1-YEAR 16.9 2.9 21.46 0.55 10-YEAR 44.4 21.6 22.72 1.16 | DESIGN STO | RM FACILITY INFLOW | FACILITY DISCHARGE | WATER SURFACE | STORAGE VOLUME | |
| 1-YEAR 16.9 2.9 21.46 0.55 10-YEAR 44.4 21.6 22.72 1.16 | PERM. POO | | | | | |
| | | | | | | |
| 100-YEAR 90.0 48.5 24.02 2.05 | 10-YEAR | 44.4 | 21.6 | 22. 72 | 1.16 | |
| | 100-YEAR | 90.0 | 48.5 | 24.02 | 2.05 | |

HAZARD CLASSIFICATION "A" AS PER POND CODE 378

DRAINAGE AREA TO FACILITY: 16.75 ACRES

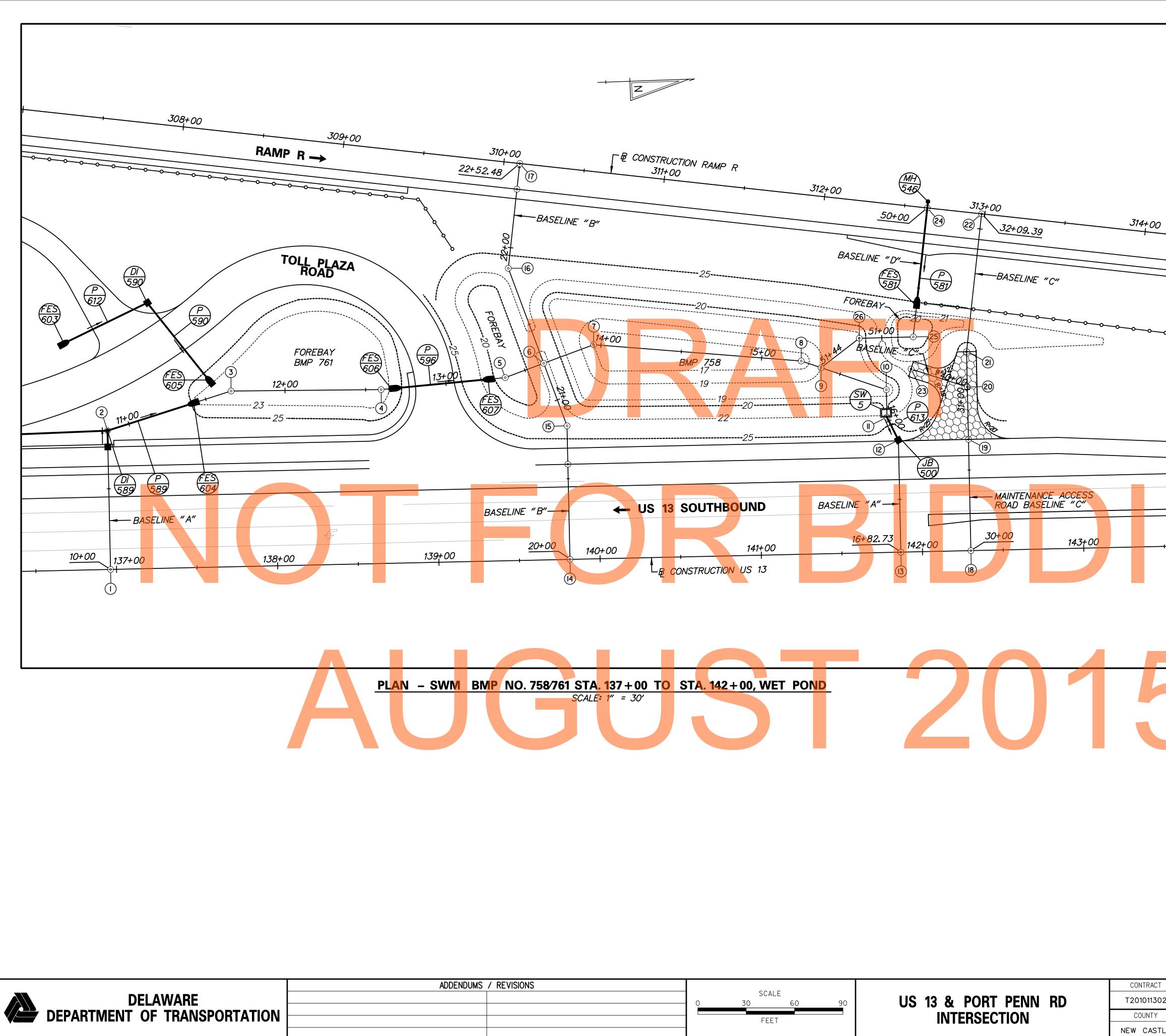
MANAGEMENT PROVIDED BY FACILITY: WATER QUALITY CONTROL VIA EXTENDED DETENTION FOR 1-YEAR RESOURCE PROTECTION STORM. QUANTITY CONTROL FOR THE 10-YEAR AND 100-YEAR STORM EVENTS WAIVED DUE TO TIDAL NATURE OF SCOTT RUN.

| ONTRACT | BRIDGE NO. | | |
|----------|------------------|-----|--|
| 01011700 | | | |
| 01011302 | DESIGNED BY | | |
| COUNTY | DESIGNED BY: DLH | | |
| / CASTLE | CHECKED BY: | JDC | |

STORMWATER MANAGEMENT PLAN **BMP 758/761**

SW-09 SHEET NO. 91 OTAL SHTS

179



| NS | | | |
|----|---------------------------|----------------------|----|
| | SCALE 0 <u>30609</u> 0 | US 13 & PORT PENN RD | Т |
| | FEET | INTERSECTION | |
| | | | NE |

| BASELINE "A" STAKEOUT INFORMATION | | | | | | | | | | |
|--------------------------------------|------------------|--------------------|--------------------|--|--|--|--|--|--|--|
| POINT NO. | STATION | NORTHING | EASTING | | | | | | | |
| I | POB STA.10+00.00 | 555976.02 | 590632.59 | | | | | | | |
| 2 | PI STA.10+86.09 | 555976 . 62 | 590546 . 5I | | | | | | | |
| 3 | PI STA.II+66.55 | 556053 . 9I | 590524 . I5 | | | | | | | |
| 4 | PI STA.12+59.58 | 556146.93 | 590525.93 | | | | | | | |
| 5 | PI STA.13+36.96 | 556224 . I3 | 590520.72 | | | | | | | |
| 6 | PI STA.13+62.42 | 556248.23 | 590512.52 | | | | | | | |
| 7 | PI STA.13+95.42 | 556279 . 48 | 59050I . 90 | | | | | | | |
| 8 | PI STA.15+24.60 | 556407.92 | 590515.72 | | | | | | | |
| 9 | PI STA.15+37.60 | 556420 . II | 590520.23 | | | | | | | |
| 10 | PI STA.15+80.30 | 556460 . I5 | 590535.06 | | | | | | | |
| = | PI STA.15+97.34 | 556460.05 | 590552 . IO | | | | | | | |
| 12 | PI STA.16+13.23 | 556466.75 | 590566.51 | | | | | | | |
| 13 | POE STA.16+82.73 | 556466.27 | 590636.00 | | | | | | | |

| BASELINE "B" STAKEOUT INFORMATION | | | | | | | | | |
|--------------------------------------|------------------|--------------------|--------------------|--|--|--|--|--|--|
| POINT NO. | STATION | NORTHING | EASTING | | | | | | |
| 14 | POB STA.20+00.00 | 556260.99 | 590634.58 | | | | | | |
| 15 | PI STA.20+82.85 | 55626I . 56 | 59055I . 73 | | | | | | |
| 16 | PI STA.2I+87.14 | 556227.99 | 590452.99 | | | | | | |
| 17 | POE STA.22+52.48 | 556236.94 | 590388.26 | | | | | | |

| Α | ACCESS ROAD BASELINE "C" STAKEOUT INFORMATION | | | | | | | | | | |
|--------------|--|--------------------|--------------------|--|--|--|--|--|--|--|--|
| POINT NO. | STATION | NORTHING | EASTING | | | | | | | | |
| 18 | POB STA.30+00.00 | 556509.71 | 590636 . 3I | | | | | | | | |
| 19 | PI STA.30+69.03 | 5565I0 . I9 | 590567 . 28 | | | | | | | | |
| 20 | PI STA.3I+0I.49 | 556510.42 | 590534.82 | | | | | | | | |
| 21 | PI STA.3I+23.40 | 556510.57 | 590512.91 | | | | | | | | |
| 22 | POE STA.32+09.39 | 556522.35 | 590427.73 | | | | | | | | |
| | | | | | | | | | | | |
| 20 | POB STA.40+00.00 | 556510.42 | 590534.82 | | | | | | | | |
| 23 | POE STA.40+36.65 | 556475.85 | 590522.64 | | | | | | | | |

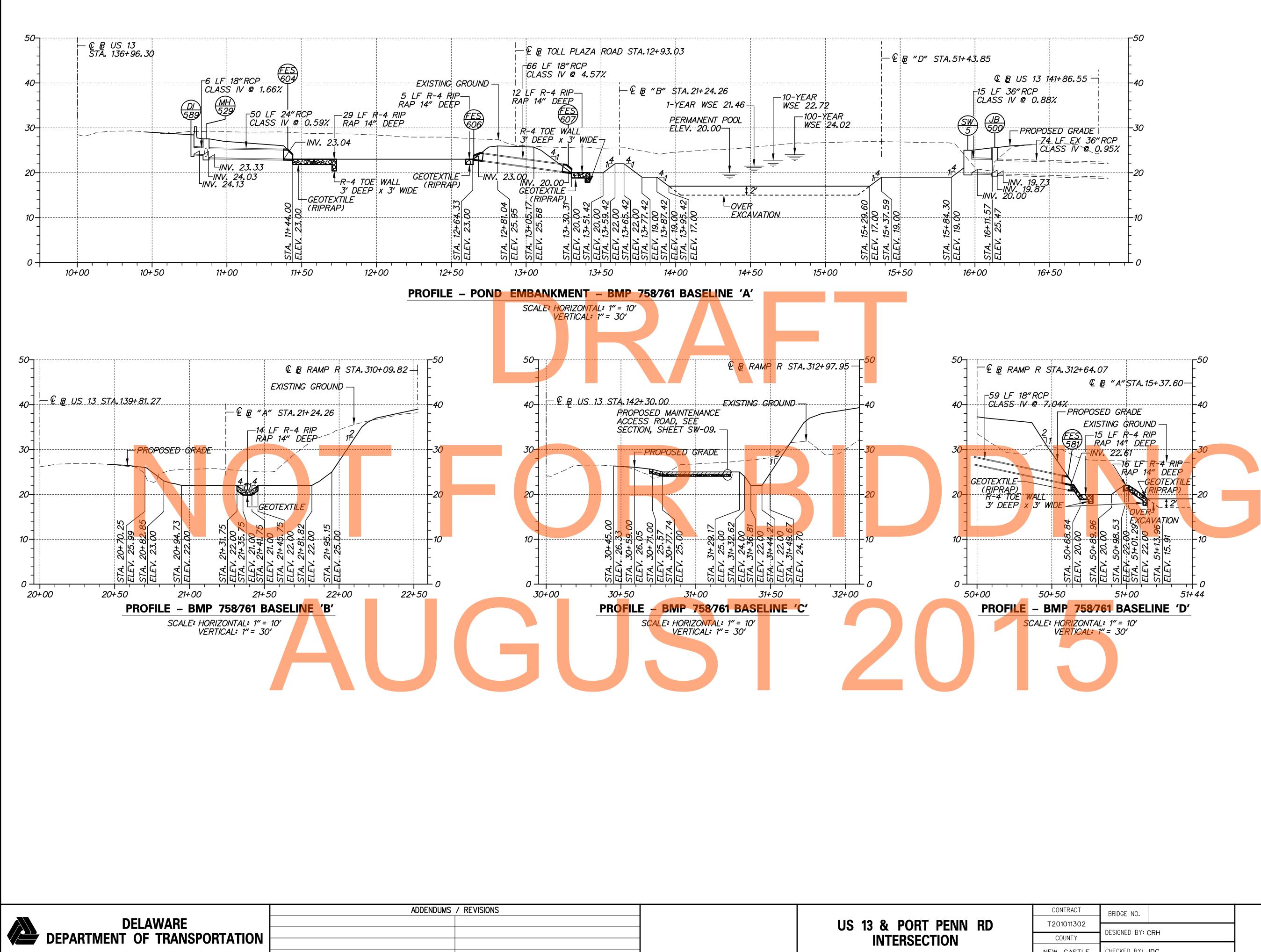
| BASELINE "D" STAKEOUT INFORMATION | | | | | | | | | | |
|--------------------------------------|------------------|--------------------|--------------------|--|--|--|--|--|--|--|
| POINT NO. | STATION | NORTHING | EASTING | | | | | | | |
| 24 | POB STA.50+00.00 | 556488.80 | 590423.09 | | | | | | | |
| 25 | PI STA.50+80.47 | 556477.78 | 590502 . 8I | | | | | | | |
| 26 | PI STA.5I+I3.96 | 556444.30 | 590502.67 | | | | | | | |
| 9 | POE STA.5I+43.85 | 556420 . II | 590520.23 | | | | | | | |

| CONTRACT | BRIDGE NO. | |
|-----------|--------------|-----|
| 201011302 | | |
| 201011302 | DESIGNED BY: | |
| COUNTY | DESIGNED DI. | DLH |
| W CASTLE | CHECKED BY: | JDC |



SW-10

SHEET NO. 92 TOTAL SHTS. 179



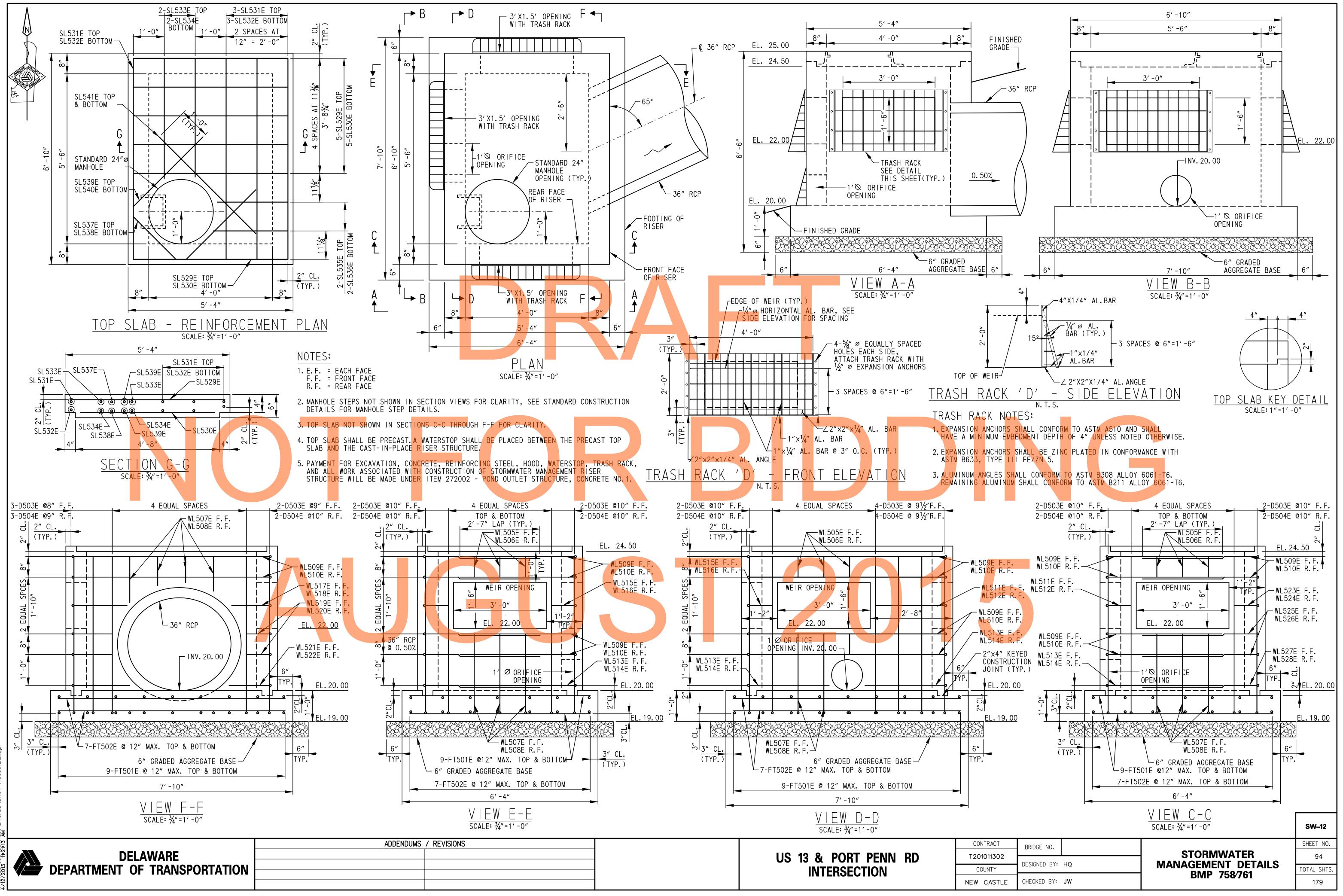
| NS | | |
|----|----------------------|----|
| | US 13 & PORT PENN RD | 1 |
| | | |
| | INTERSECTION | |
| | | NE |

| CONTRACT | BRIDGE NO. | | | | | |
|-----------|------------------|--|--|--|--|--|
| 201011302 | | | | | | |
| 201011302 | DESIGNED BY: CRH | | | | | |
| COUNTY | DESIGNED DI CRA | | | | | |
| W CASTLE | CHECKED BY: JDC | | | | | |



SW-11 SHEET NO. 93

OTAL SHTS 179



000\Contract 1D\CADD\SW04-143U301_1D.dgn



2 ALL MARK 'LOCATION PREFIXES' SHALL CONSIST OF TWO LETTERS AND ARE AS FOLLOWS: AB = ABUTMENT, AS = APPROACH SLAB, BC = BOX CULVERT, BW = BACKWALL, CL = COLUMN, DK = DECK, DL = DOWEL, FT = FOOTING, HW = HEADWALL, MS = MISC. BARS, PA = PARAPET, PR = PIER, SC = SHEETPILE CAP, SL = SLAB, TW = TOEWALL, WL = WALL (UNIQUE LOCATION), WW = WINGWALL

| ! | SPECIFICAT | | | _ 1 | | | NDING DIME | | | | | | | SP |
|---|---|--|--|---|---|--|---|---|---|--|---|--|--|---|
| | | | TYPE | A | B | C | D | E | F/R | G | H | J K | 0 | QTY. SIZE I |
| SWM BMP 68 5 | | | LL 17 | | 6-100 | 1-60 | | | ! | | | | | 2 5 1 5 |
| 4X4 5 | | | STR | | 15-83 | | | | | | | | | 1 5 |
| | TO | | | 1 | то | | | 1 | 1 | | 1 | | | 1 5 |
| | 16-60 | | | i | 16-60 | | | | | | | | | 1 5 |
| 6 5 | + + | | STR | | 33-80 | | i | | i | | | | | 2 5 |
| 4 6 | | WL604E | 6 | | | 6-112 | 2-60 | | | | 6-100 | ı 1- | 41 16-90 | _ |
| 12 5 70 5 | - I | | STR STR | | 33-60 4-60 | | | | | | | | | 1 5 |
| 70 5 | | WLOUGE | 214 | | 4-60 | | | | | | | | | 1_56_5 |
| SWM BMP I | <u> </u> | u Weir Wai | | | | | | | | | | | <u>: </u> | 6 5 |
| 56 5 | | | 17 | | 6-100 | 1-60 | | | | | | 1 | | 4 5 |
| 4X3 5 | 5 13-11 | WL502E | STR | 1 | 13-11 | | | | | | | | | 6 5 |
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| 6 5 | | | STR | | 27-80 | | | | | | 1 | | | 2 5 |
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| SWM BMP N | NO.902 R | ISER STF | RUCTU | RE | <u>, I</u> | | . I | | · | . I. | | . I | | 2 5 |
| 14 5 | 5 5-100 | FT501E | STR | | 5-100 | | | | | | | | | 2 5 |
| 18 5 | | | STR | | 7-40 | | | | | | | | | ┨ <mark>╺</mark> ┠──┼┼ |
| 19 5 10 F | | | 2 | | 5-30 | 1 | | | | 0-100 | | | | ┨ <mark>╺</mark> ┠──┼┼ |
| 19 5 9 5 | | DL504E WL505E | 2 STR | | 5-1¦0 0-100 | | | | | 0-100 | | | | ┨╺┛╋ |
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| 8 5 | | | 2 | l | 2-70 | | | | | 0-100 | | 1 | 1 I | |
| 8 5 | 5 3-50 | WL508E | 2 | | 2-70 | | | | | 0-100 | | | | |
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| 6 5 | - | | 17 | | | 5-100 | 3-52 | | i | | | | | - |
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| 1 5 | 5 1-80 | WL515E | 17 | | | 0-100 | 0-100 | | | 1 | | | | |
| 1 5 | 5 1-00 | WL516E | 17 | | | 0-6 <mark>0</mark> | 0-60 | | 1 | | | | | |
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| 2 5 | | WL519E | 17 | 1 | 0-10¦0 | 0-6 <mark>'</mark> 3 | | | Ι | 1 | | | 1 | |
| ASTM STA REINFO | RCING BAR | | | COMMENDED | | | ST APP | IRRUP ANI | O TIE HO | DOKS, BRADES | NOTE | | | |
| | | | | | | | | | • • • • • • | | | | | |
| | INAL DIMEN | ISIONS | | | -0 | | | | | 40=0 | | | | CIRCLES REPRESEN S INCLUDE ONLY TH |
| | INAL DIMEN | | | 18 HOC | | 90° HOOI | | 90° HOOK | | 135° HOOK | 2. | STANDARD E | BAR BENDS | S INCLUDE ONLY TH T-TO-OUT, EXCEPT |
| | | | | | | | | | | | 2. 3. | STANDARD E ALL DIMENS HOOKS. | BAR BENDS SIONS OUT | S INCLUDE ONLY TH T-TO-OUT, EXCEPT |
| | AREA CHES ²) | | D | | OKS | | (S | HOOK | | | 2. 3. | STANDARD E ALL DIMENS HOOKS. "J" DIMENS | BAR BENDS SIONS OUT SIONS ON | S INCLUDE ONLY TH T-TO-OUT, EXCEPT 180° HOOKS TO BI |
| DIAMETER (INCHES) | AREA (INCHES ²) | Weight (LBS./FT.) | _ | HOC A OR G | oks J | HOOI A OR | (S G D | HOOK A OR G | A OR | G A OR | 2. 3. 3. | STANDARD E ALL DIMENS HOOKS. "J" DIMENS RESTRICT F | BAR BENDS SIONS OUT SIONS ON HOOK SIZE | S INCLUDE ONLY TH T-TO-OUT, EXCEPT 180° HOOKS TO BH E, OTHERWISE STAN |
| DIAMETER DIAMETER 0. 375 | (INCHES ²) | () Keight () () () () () () () () () () () () () | 2 ¹ /4″ | HOC A OR G | DKS J 3″ | HOOI A OR 6″ | (S G 1 ¹ / ₂ " | HOOK A OR G 4" | A OR 4″ | ноок g A OR 2 ¹ /2″ | 2. 3. 3. | STANDARD E ALL DIMENS HOOKS. "J" DIMENS RESTRICT H WHERE "J" | BAR BENDS SIONS OUT SIONS ON HOOK SIZE IS NOT S | S INCLUDE ONLY TH T-TO-OUT, EXCEPT 180° HOOKS TO BH F, OTHERWISE STAN SHOWN, "J" WILL H |
| DIAMETER 0. 375 0. 500 | (INCHES ³) 0. 110 0. 200 | (H) (H) (H) (H) (H) (H) (H) (H) (H) (H) | 2 ¹ /4″ 3″ | HOC A OR G 5" 6" | DKS J 3″ 4″ | HOOI A OR 6″ 8″ | (S G 1 ¹ / ₂ " 2" | HOOK A OR G 4" 4 ¹ / ₂ " | A OR 4″ 4 ¹ /2″ | HOOK G A OR 2 ¹ / ₂ " 3" | 2. 3. g 4. 5. | STANDARD E ALL DIMENS HOOKS. "J" DIMENS RESTRICT H WHERE "J" ON TYPES 3 | BAR BENDS SIONS OUT SIONS ON HOOK SIZE IS NOT S 3, 5 ANE | S INCLUDE ONLY TH T-TO-OUT, EXCEPT 180° HOOKS TO BH E, OTHERWISE STAN |
| Daweter 0. 375 0. 500 0. 625 | (INCHES ³) 0. 110 0. 200 0. 310 | (Figure 1) (Figure 1) | 2 ¹ /4" 3" 3 ³ /4" | HOC A OR G 5" 6" 7" | J 3″ 4″ 5″ | HOOI A OR 6″ 8″ 10′ | (S G D 1 ¹ / ₂ " 2" 2 ¹ / ₂ " | HOOK A OR G 4" 4 ¹ / ₂ " 6" | A OR 4" 4 ¹ /2" 5 ¹ /2" | HOOK G A OR $2\frac{1}{2}''$ 3'' $3^{3}4''$ | 2. 3. 4. 5. 6. | STANDARD E ALL DIMENS HOOKS. "J" DIMENS RESTRICT H WHERE "J" ON TYPES S "H" DIMENS CONCRETE. | BAR BENDS SIONS OUT SIONS ON HOOK SIZE IS NOT S 3, 5 ANE SIONS OF | S INCLUDE ONLY TH T-TO-OUT, EXCEPT 180° HOOKS TO BH , OTHERWISE STAN SHOWN, "J" WILL H D 22. WHERE "J" STIRRUPS TO BE S |
| DIAMETER 0. 375 0. 500 | (INCHES ³) 0. 110 0. 200 0. 310 | (Figure 1) (Figure 1) | 2 ¹ /4″ 3″ | HOC A OR G 5" 6" 7" | DKS J 3″ 4″ | HOOI A OR 6″ 8″ | (S G 1 ¹ / ₂ " 2" 2 ¹ / ₂ " | HOOK A OR G 4" 4 ¹ / ₂ " | A OR 4″ 4 ¹ /2″ | HOOK G A OR 2 ¹ / ₂ " 3" | 2. 3. 4. 5. 6. | STANDARD E ALL DIMENS HOOKS. "J" DIMENS RESTRICT H WHERE "J" ON TYPES S "H" DIMENS CONCRETE. UNLESS OTH | BAR BENDS SIONS OUT SIONS ON HOOK SIZE IS NOT S 3, 5 ANE SIONS OF | S INCLUDE ONLY TH T-TO-OUT, EXCEPT 180° HOOKS TO BH , OTHERWISE STAN SHOWN, "J" WILL H D 22. WHERE "J" STIRRUPS TO BE S NOTED, DIAMETER |
| Daweter 0. 375 0. 500 0. 625 | (INCHES ₃) 0. 110 0. 200 0. 310 0. 440 | HSIN 0. 376 0. 668 1. 043 1. 502 | 2 ¹ /4" 3" 3 ³ /4" | HOC A OR G 5" 6" 7" 8" | J 3″ 4″ 5″ | HOOI A OR 6″ 8″ 10′ | (S) (G) D $1\frac{1}{2}^{"}$ $2^{"}$ $2\frac{1}{2}^{"}$ $4\frac{1}{2}^{"}$ | HOOK A OR G 4" 4 ¹ / ₂ " 6" | A OR 4" 4 ¹ /2" 5 ¹ /2" | HOOK G A OR $2\frac{1}{2}''$ 3'' $3^{3}4''$ | 2. 3. 4. 5. 6. 7. | STANDARD E ALL DIMENS HOOKS. "J" DIMENS RESTRICT H WHERE "J" ON TYPES S "H" DIMENS CONCRETE. UNLESS OTH HOOKS ON A | BAR BENDS SIONS OUT SIONS ON HOOK SIZE IS NOT S 3, 5 ANE SIONS OF HERWISE M A BAR (E) | S INCLUDE ONLY TH T-TO-OUT, EXCEPT 180° HOOKS TO BH , OTHERWISE STAN SHOWN, "J" WILL H O 22. WHERE "J" STIRRUPS TO BE S NOTED, DIAMETER KCEPT FOR BEND T |
| Bayes 0. 375 0. 500 0. 625 0. 750 | (INCHES3) 0. 110 0. 200 0. 310 0. 440 0. 600 | H938 0. 376 0. 668 1. 043 1. 502 2. 044 | 2 ¹ /4" 3" 3 ³ /4" 4 ¹ /2" | HOC A OR G 5" 6" 7" 8" | J 3″ 4″ 5″ 6″ | HOOI A OR 6″ 8″ 10′ 1-0 | $\begin{array}{c c} \mathbf{S} \\ \mathbf{G} \\ \mathbf{G} \\ \mathbf{D} \\ \hline 1 \frac{1}{2}^{\prime \prime} \\ 2^{\prime \prime} \\ 2^{\prime \prime} \\ 2^{\prime \prime} \\ 2^{\prime \prime} \\ 4^{\prime \prime} \\ 5^{\prime \prime} \\ 5^{\prime \prime} \\ 4^{\prime \prime} \end{array}$ | HOOK A OR G 4" 4 ¹ / ₂ " 6" 1-0" | A OR 4" 41/2" 51/2" 8" | HOOK G A OR 21/2'' 3'' $3^3/4''$ 41/2''' 51/4'' | 2. 3. 4. 5. 6. 7. 8. | STANDARD E ALL DIMENS HOOKS. "J" DIMENS RESTRICT H WHERE "J" ON TYPES 3 "H" DIMENS CONCRETE. UNLESS OTH HOOKS ON A WHERE SLOP | BAR BENDS SIONS OUT SIONS ON HOOK SIZE IS NOT S 3, 5 ANE SIONS OF HERWISE M A BAR (E) PE DIFFEF | S INCLUDE ONLY TH T-TO-OUT, EXCEPT 180° HOOKS TO BH , OTHERWISE STAN SHOWN, "J" WILL H D 22. WHERE "J" STIRRUPS TO BE S NOTED, DIAMETER KCEPT FOR BEND T RS FROM 45° OFFSI |
| Bayes 0. 375 0. 500 0. 625 0. 750 0. 875 | (CHESS) 0.110 0.200 0.310 0.440 0.600 0.790 | H919 0. 376 0. 668 1. 043 1. 502 2. 044 2. 670 | 2 ¹ /4" 3" 3 ³ /4" 4 ¹ /2" 5 ¹ /4" | HOC A OR G 7 5" 6" 7 7" 8" 7 8" 7 10" 11" | J 3″ 4″ 5″ 6″ 7″ | HOOI A OR 6" 8" 10' 1-0 1-2 | $\begin{array}{c c} \mathbf{KS} \\ \mathbf{KS} \\ \mathbf{F} \\ \mathbf{G} \\ \mathbf{D} \\ 1 \frac{1}{2}^{\prime \prime} \\ 2^{\prime \prime} \\ 2^{\prime \prime} \\ 2 \frac{1}{2}^{\prime \prime} \\ 4 \frac{1}{2}^{\prime \prime} \\ \frac{1}{2}^{\prime \prime} \\ 5 \frac{1}{4}^{\prime \prime} \\ \frac{1}{2}^{\prime \prime} \\ 6^{\prime \prime} \end{array}$ | HOOK A OR G 4" 4 ¹ / ₂ " 6" 1-0" 1-2" | A OR 4″ 4 ¹ /2″ 5 ¹ /2″ 8″ 9″ | HOOK G A OR 21/2'' 3'' $3^3/4''$ 41/2''' 51/4'' | 2. 3. 4. 5. 6. 7. 8. | STANDARD E ALL DIMENS HOOKS. "J" DIMENS RESTRICT H WHERE "J" ON TYPES 3 "H" DIMENS CONCRETE. UNLESS OTH HOOKS ON A WHERE SLOP WHERE BARS | BAR BENDS SIONS OUT SIONS ON HOOK SIZE IS NOT S 3, 5 ANE SIONS OF HERWISE N A BAR (E) PE DIFFEF 5 ARE TO | S INCLUDE ONLY TH T-TO-OUT, EXCEPT 180° HOOKS TO BH , OTHERWISE STAN SHOWN, "J" WILL H D 22. WHERE "J" STIRRUPS TO BE S NOTED, DIAMETER KCEPT FOR BEND T RS FROM 45° OFFSH BE BENT MORE ACC |
| Hat (Same) 0. 375 0. 500 0. 625 0. 750 0. 875 1. 000 1. 128 | (), 110 0, 110 0, 200 0, 310 0, 440 0, 600 0, 790 1, 000 | H998 0. 376 0. 668 1. 043 1. 502 2. 044 2. 670 3. 400 | 2 ¹ /4" 3" 3 ³ /4" 4 ¹ /2" 5 ¹ /4" 6" 9 ¹ /2" | HOC A OR G 5" 6" 7" 8" 10" 11" 1-3" | J 3" 4" 5" 6" 7" 8" 11 ³ / ₄ " | HOOI A OR 6" 8" 10' 1-0 1-2 1-4 | $\begin{array}{c c} \mathbf{S} \\ \mathbf{G} \\ \mathbf{G} \\ \mathbf{D} \\ 1 \frac{1}{2}^{\prime \prime} \\ 2^{\prime \prime} \\ 2^{\prime \prime} \\ 2 \frac{1}{2}^{\prime \prime} \\ 4 \frac{1}{2}^{\prime \prime} \\ 4 \frac{1}{2}^{\prime \prime} \\ 1 \\ 5 \frac{1}{4}^{\prime \prime} \\ 1 \\ 6 \\ \end{array}$ | HOOK A OR G 4" 4 ¹ / ₂ " 6" 1-0" 1-2" | A OR 4″ 4 ¹ /2″ 5 ¹ /2″ 8″ 9″ | HOOK G A OR 21/2'' 3'' $3^3/4''$ 41/2''' 51/4'' | 2. 3. 4. 5. 6. 7. 8. | STANDARD E ALL DIMENS HOOKS. "J" DIMENS RESTRICT H WHERE "J" ON TYPES 3 "H" DIMENS CONCRETE. UNLESS OTH HOOKS ON A WHERE SLOP WHERE BARS | BAR BENDS SIONS OUT SIONS ON HOOK SIZE IS NOT S 3, 5 ANE SIONS OF HERWISE N A BAR (E) PE DIFFEF S ARE TO S, BENDIN | S INCLUDE ONLY TH T-TO-OUT, EXCEPT 180° HOOKS TO BH , OTHERWISE STAN SHOWN, "J" WILL H O 22. WHERE "J" STIRRUPS TO BE S NOTED, DIAMETER KCEPT FOR BEND T RS EROM 45° OFFSH BE BENT MORE ACC NG DIMENSIONS REC |
| Haiss 0.375 0.500 0.625 0.750 0.875 1.000 1.128 1.270 | Q. 1100. 1100. 2000. 3100. 4400. 6000. 7901. 0001. 270 | Line0. 3760. 6681. 0431. 5022. 0442. 6703. 4004. 303 | $2^{1}/4''$ $3''$ $3^{3}/4''$ $4^{1}/2''$ $5^{1}/4''$ $6''$ $9^{1}/2''$ $10^{3}/4'$ | HOC A OR G 5" 6" 7" 8" 10" 11" 1-3" " 1-5" | J 3" 4" 5" 6" 7" 8" 11 ³ / ₄ " 1-1 ¹ / ₄ " | HOOI A OR 6" 8" 10' 1-0 1-2 1-4 1-7 1-10 | $\begin{array}{c c} \mathbf{KS} \\ \mathbf{KS} \\ \hline \mathbf{G} \\ \mathbf{D} \\ \hline 1 \frac{1}{2}^{\prime\prime} \\ 2^{\prime\prime} \\ 2^{\prime\prime} \\ 2^{\prime\prime} \\ 2^{\prime\prime} \\ 4^{\prime} 2^{\prime\prime} \\ 1 \\ 5^{\prime} 4^{\prime} \\ 1 \\ 5^{\prime} 4^{\prime\prime} \\ 1 \\ 6^{\prime\prime} \\ 1 \\ 0^{\prime\prime} \end{array}$ | HOOK A OR G 4" 4 ¹ / ₂ " 6" 1-0" 1-2" | A OR 4″ 4 ¹ /2″ 5 ¹ /2″ 8″ 9″ | HOOK G A OR 21/2'' 3'' $3^3/4''$ 41/2''' 51/4'' | 2. 3. 4. 5. 6. 7. 8. 9. | STANDARD E ALL DIMENS HOOKS. "J" DIMENS RESTRICT F WHERE "J" ON TYPES J "H" DIMENS CONCRETE. UNLESS OTF HOOKS ON A WHERE SLOP WHERE BARS TOLERANCES HAVE LIMIT | BAR BENDS SIONS OUT SIONS ON HOOK SIZE IS NOT S 3, 5 ANE SIONS OF HERWISE M A BAR (E) PE DIFFEF S ARE TO S, BENDIM TS INDICA | S INCLUDE ONLY TH T-TO-OUT, EXCEPT 180° HOOKS TO BH , OTHERWISE STAN SHOWN, "J" WILL H D 22. WHERE "J" STIRRUPS TO BE NOTED, DIAMETER KCEPT FOR BEND TH RS EROM 45° OFFSH BE BENT MORE ACH NG DIMENSIONS REM ATED. |
| History 0.375 0.500 0.625 0.750 0.875 1.000 1.128 1.270 1.410 | Q. 1100. 1100. 2000. 3100. 4400. 6000. 7901. 0001. 2701. 560 | L0. 3760. 6681. 0431. 5022. 0442. 6703. 4004. 3035. 313 | $ \begin{array}{c} 2^{1}/4'' \\ 3'' \\ 3^{3}/4'' \\ 4^{1}/2'' \\ 5^{1}/4'' \\ 6'' \\ 9^{1}/2'' \\ 10^{3}/4' \\ 1-0'' \end{array} $ | HOC A OR G 5" 6" 7" 8" 10" 11" 1-3" " 1-5" " 1-7" | DKS J 3" 4" 5" 6" 7" 8" 11 ³ /4" 1-1 ¹ /4" 1-2 ³ /4" | HOOI A OR 6" 8" 10' 1-0 1-2 1-4 1-7 1-10 2-0 | $\begin{array}{c c} \mathbf{S} \\ \mathbf{G} \\ \mathbf{D} \\ \hline 1 \frac{1}{2}^{\prime\prime} \\ 2^{\prime\prime} \\ 2^{\prime\prime} \\ 2^{\prime\prime} \\ 2^{\prime\prime} \\ 4^{\prime} 2^{\prime\prime} \\ 5^{\prime} \\ 6^{\prime\prime} \\ \end{array}$ | HOOK A OR G 4" 4 ¹ / ₂ " 6" 1-0" 1-2" | A OR 4″ 4 ¹ /2″ 5 ¹ /2″ 8″ 9″ | HOOK G A OR 21/2'' 3'' $3^3/4''$ 41/2''' 51/4'' | 2. 3. 4. 5. 6. 7. 8. 9. | STANDARD E ALL DIMENS HOOKS. "J" DIMENS RESTRICT H WHERE "J" ON TYPES 3 "H" DIMENS CONCRETE. UNLESS OTH HOOKS ON A WHERE SLOF WHERE BARS TOLERANCES HAVE LIMIT FOR RECOMM ABOVE, 'CF | BAR BENDS SIONS OUT SIONS ON HOOK SIZE IS NOT S 3, 5 ANE SIONS OF HERWISE N A BAR (E) PE DIFFEF S ARE TO S, BENDIN FS INDICA MENDED D RSI' OR ' | S INCLUDE ONLY T T-TO-OUT, EXCEPT 180° HOOKS TO B OTHERWISE STA SHOWN, "J" WILL O 22. WHERE "J" STIRRUPS TO BE NOTED, DIAMETER KCEPT FOR BEND T RS FROM 45° OFFS BE BENT MORE AC NG DIMENSIONS RE ATED. IAMETER "D", OF ACI' TABLES WHE |
| History 0.375 0.500 0.625 0.750 0.875 1.000 1.128 1.270 1.410 1.693 | Q. 1100. 1100. 2000. 3100. 4400. 6000. 7901. 0001. 2701. 5602. 250 | Image: Second stress0. 3760. 6681. 0431. 5022. 0442. 6703. 4004. 3035. 3137. 650 | 2 ¹ /4" 3" 3 ³ /4" 4 ¹ /2" 5 ¹ /4" 6" 9 ¹ /2" 10 ³ /4" 1-0" 1-6 ¹ /4 | HOC A OR G 5" 6" 7" 8" 10" 11" 1-3" 1-5" 1-7" 4" 2-3" | J 3" 4" 5" 6" 7" 8" 11 ³ / ₄ " 1-1 ¹ / ₄ " 1-2 ³ / ₄ " 1-9 ³ / ₄ " | HOOI A OR 6" 8" 10' 1-0 1-2 1-4 1-7 1-10 2-0 2-7 | $\begin{array}{c c} \mathbf{S} \\ \mathbf{G} \\ \mathbf{G} \\ 1 \frac{1}{2}^{\prime \prime} \\ 2^{\prime \prime} \\ 2^{\prime \prime} \\ 2^{\prime \prime} \\ 2^{\prime \prime} \\ 1 \frac{2^{\prime \prime}}{2^{\prime \prime}} \\ \frac{1}{2}^{\prime \prime} $ | HOOK A OR G 4" 4 ¹ / ₂ " 6" 1-0" 1-2" | A OR 4″ 4 ¹ /2″ 5 ¹ /2″ 8″ 9″ | HOOK G A OR 21/2'' 3'' $3^3/4''$ 41/2''' 51/4'' | 2. 3. 4. 5. 6. 7. 8. 9. | STANDARD E ALL DIMENS HOOKS. "J" DIMENS RESTRICT F WHERE "J" ON TYPES 3 "H" DIMENS CONCRETE. UNLESS OTF HOOKS ON A WHERE SLOF WHERE BARS TOLERANCES HAVE LIMIT FOR RECOMM ABOVE, 'CF TYPE S1-SE | BAR BENDS SIONS OUT SIONS ON HOOK SIZE IS NOT S 3, 5 ANE SIONS OF HERWISE N A BAR (E) PE DIFFEF S ARE TO S, BENDIN FS INDICA MENDED D RSI' OR ' 5, S11, T | S INCLUDE ONLY T T-TO-OUT, EXCEPT 180° HOOKS TO B OTHERWISE STA SHOWN, "J" WILL O 22. WHERE "J" STIRRUPS TO BE NOTED, DIAMETER KCEPT FOR BEND T RS FROM 45° OFFS BE BENT MORE AC NG DIMENSIONS RE ATED. IAMETER "D", OF ACI' TABLES WHE |
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| History 0.375 0.500 0.625 0.750 0.875 1.000 1.128 1.270 1.410 1.693 2.257 | Q. 1100. 1100. 2000. 3100. 4400. 6000. 7901. 0001. 2701. 5602. 250 | L0. 3760. 6681. 0431. 5022. 0442. 6703. 4004. 3035. 3137. 65013. 600 | $2^{1}/4''$ $3''$ $3^{3}/4''$ $4^{1}/2''$ $5^{1}/4''$ $6''$ $9^{1}/2''$ $10^{3}/4'$ $1^{-}0^{4'}$ $1^{-}6^{1}/2$ $2^{-}0''$ | HOC A OR G 5" 6" 7" 6" 7" 8" 10" 11" 1-3" 1-5" 1-7" 4" 2-3" 3-0" | J 3" 4" 5" 6" 7" 8" 11 ³ / ₄ " 1-1 ¹ / ₄ " 1-2 ³ / ₄ " 1-9 ³ / ₄ " | HOOI A OR 6" 8" 10' 1-0 1-2 1-4 1-7 1-10 2-0 2-7 | $\begin{array}{c c} \mathbf{S} \\ \mathbf{G} \\ \mathbf{G} \\ 1 \frac{1}{2}^{\prime \prime} \\ 2^{\prime \prime} \\ 2^{\prime \prime} \\ 2^{\prime \prime} \\ 2^{\prime \prime} \\ 1 \frac{2^{\prime \prime}}{2^{\prime \prime}} \\ \frac{1}{2}^{\prime \prime} $ | HOOK A OR G 4" 4 ¹ / ₂ " 6" 1-0" 1-2" | A OR 4″ 4 ¹ /2″ 5 ¹ /2″ 8″ 9″ | HOOK G A OR 21/2'' 3'' $3^3/4''$ 41/2''' 51/4'' | 2. 3. 4. 5. 6. 7. 8. 9. | STANDARD E ALL DIMENS HOOKS. "J" DIMENS RESTRICT F WHERE "J" ON TYPES 3 "H" DIMENS CONCRETE. UNLESS OTF HOOKS ON A WHERE SLOF WHERE BARS TOLERANCES HAVE LIMIT FOR RECOMM ABOVE, 'CF TYPE S1-SE | BAR BENDS SIONS OUT SIONS ON HOOK SIZE IS NOT S 3, 5 ANE SIONS OF HERWISE N A BAR (E) PE DIFFEF S ARE TO S, BENDIN FS INDICA MENDED D RSI' OR ' 5, S11, T | S INCLUDE ONLY TH T-TO-OUT, EXCEPT 180° HOOKS TO BH , OTHERWISE STAN SHOWN, "J" WILL H O 22. WHERE "J" STIRRUPS TO BE S NOTED, DIAMETER KCEPT FOR BEND T RS EROM 45° OFFSH BE BENT MORE ACC NG DIMENSIONS REC |
| History 0.375 0.500 0.625 0.750 0.875 1.000 1.128 1.270 1.410 1.693 2.257 | Reserve0. 1100. 2000. 3100. 4400. 6000. 7901. 0001. 2701. 5602. 2504. 000 | L0. 3760. 6681. 0431. 5022. 0442. 6703. 4004. 3035. 3137. 65013. 600 | $2^{1}/4''$ $3''$ $3^{3}/4''$ $4^{1}/2''$ $5^{1}/4''$ $6''$ $9^{1}/2''$ $10^{3}/4'$ $1^{-}0^{4'}$ $1^{-}6^{1}/2$ $2^{-}0''$ | HOC A OR G 5" 6" 7" 6" 7" 8" 10" 11" 1-3" 1-5" 1-7" 4" 2-3" 3-0" | J 3" 4" 5" 6" 7" 8" 11 ³ / ₄ " 1-1 ¹ / ₄ " 1-2 ³ / ₄ " 1-9 ³ / ₄ " | HOOI A OR 6" 8" 10' 1-0 1-2 1-4 1-7 1-10 2-0 2-7 | $\begin{array}{c c} \mathbf{S} \\ \mathbf{G} \\ \mathbf{G} \\ 1 \frac{1}{2}^{\prime \prime} \\ 2^{\prime \prime} \\ 2^{\prime \prime} \\ 2^{\prime \prime} \\ 2^{\prime \prime} \\ 1 \frac{2^{\prime \prime}}{2^{\prime \prime}} \\ \frac{1}{2}^{\prime \prime} $ | HOOK A OR G 4" 4 ¹ / ₂ " 6" 1-0" 1-2" | A OR 4″ 4 ¹ /2″ 5 ¹ /2″ 8″ 9″ | HOOK G A OR 21/2'' 3'' $3^3/4''$ 41/2''' 51/4'' | 2. 3. 4. 5. 6. 7. 8. 9. | STANDARD E ALL DIMENS HOOKS. "J" DIMENS RESTRICT F WHERE "J" ON TYPES 3 "H" DIMENS CONCRETE. UNLESS OTF HOOKS ON A WHERE SLOF WHERE BARS TOLERANCES HAVE LIMIT FOR RECOMM ABOVE, 'CF TYPE S1-SE | BAR BENDS SIONS OUT SIONS ON HOOK SIZE IS NOT S 3, 5 ANE SIONS OF HERWISE N A BAR (E) PE DIFFEF S ARE TO S, BENDIN FS INDICA MENDED D RSI' OR ' 5, S11, T | S INCLUDE ONLY TH T-TO-OUT, EXCEPT 180° HOOKS TO BH , OTHERWISE STAN SHOWN, "J" WILL H O 22. WHERE "J" STIRRUPS TO BE S NOTED, DIAMETER " KCEPT FOR BEND T" RS FROM 45° OFFSH BE BENT MORE ACC NG DIMENSIONS REC ATED. IAMETER "D", OF H 'ACI' TABLES WHEN |
| High 0.375 0.500 0.625 0.750 0.875 1.000 1.128 1.270 1.410 1.693 2.257 | Vertical 0. 110 0. 200 0. 310 0. 440 0. 600 0. 790 1. 000 1. 270 1. 560 2. 250 4. 000 | | 2 ¹ /4" 3" 3 ³ /4" 4 ¹ /2" 5 ¹ /4" 6" 9 ¹ /2" 10 ³ /4' 1-0" 1-6 ¹ /2 2-0" TIE | HOC A OR G 5" 6" 7" 6" 7" 8" 10" 11" 1-3" 1-5" 1-7" 4" 2-3" 3-0" | J 3" 4" 5" 6" 7" 8" 11 ³ / ₄ " 1-1 ¹ / ₄ " 1-2 ³ / ₄ " 1-9 ³ / ₄ " | HOOI A OR 6" 8" 10' 1-0 1-2 1-4 1-7 1-10 2-0 2-7 | $\begin{array}{c c} \mathbf{S} \\ \mathbf{G} \\ \mathbf{G} \\ 1 \frac{1}{2}^{\prime \prime} \\ 2^{\prime \prime} \\ 2^{\prime \prime} \\ 2^{\prime \prime} \\ 2^{\prime \prime} \\ 1 \frac{2^{\prime \prime}}{2^{\prime \prime}} \\ \frac{1}{2}^{\prime \prime} $ | HOOK A OR G 4" 4 ¹ / ₂ " 6" 1-0" 1-2" | A OR 4″ 4 ¹ /2″ 5 ¹ /2″ 8″ 9″ | HOOK G A OR 21/2'' 3'' $3^3/4''$ 41/2''' 51/4'' | 2. 3. 4. 5. 6. 7. 8. 9. | STANDARD E ALL DIMENS HOOKS. "J" DIMENS RESTRICT F WHERE "J" ON TYPES 3 "H" DIMENS CONCRETE. UNLESS OTF HOOKS ON A WHERE SLOF WHERE BARS TOLERANCES HAVE LIMIT FOR RECOMM ABOVE, 'CF TYPE S1-SE | BAR BENDS SIONS OUT SIONS ON HOOK SIZE IS NOT S 3, 5 ANE SIONS OF HERWISE N A BAR (E) PE DIFFEF S ARE TO S, BENDIN FS INDICA MENDED D RSI' OR ' 5, S11, T | S INCLUDE ONLY TH T-TO-OUT, EXCEPT 180° HOOKS TO BH , OTHERWISE STAN SHOWN, "J" WILL H O 22. WHERE "J" STIRRUPS TO BE S NOTED, DIAMETER " KCEPT FOR BEND T" RS FROM 45° OFFSH BE BENT MORE ACC NG DIMENSIONS REC ATED. IAMETER "D", OF H 'ACI' TABLES WHEN |
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