

PHASE BOUNDARIES

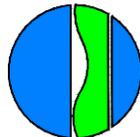
- PHASE 1A ---
- PHASE 1B ---

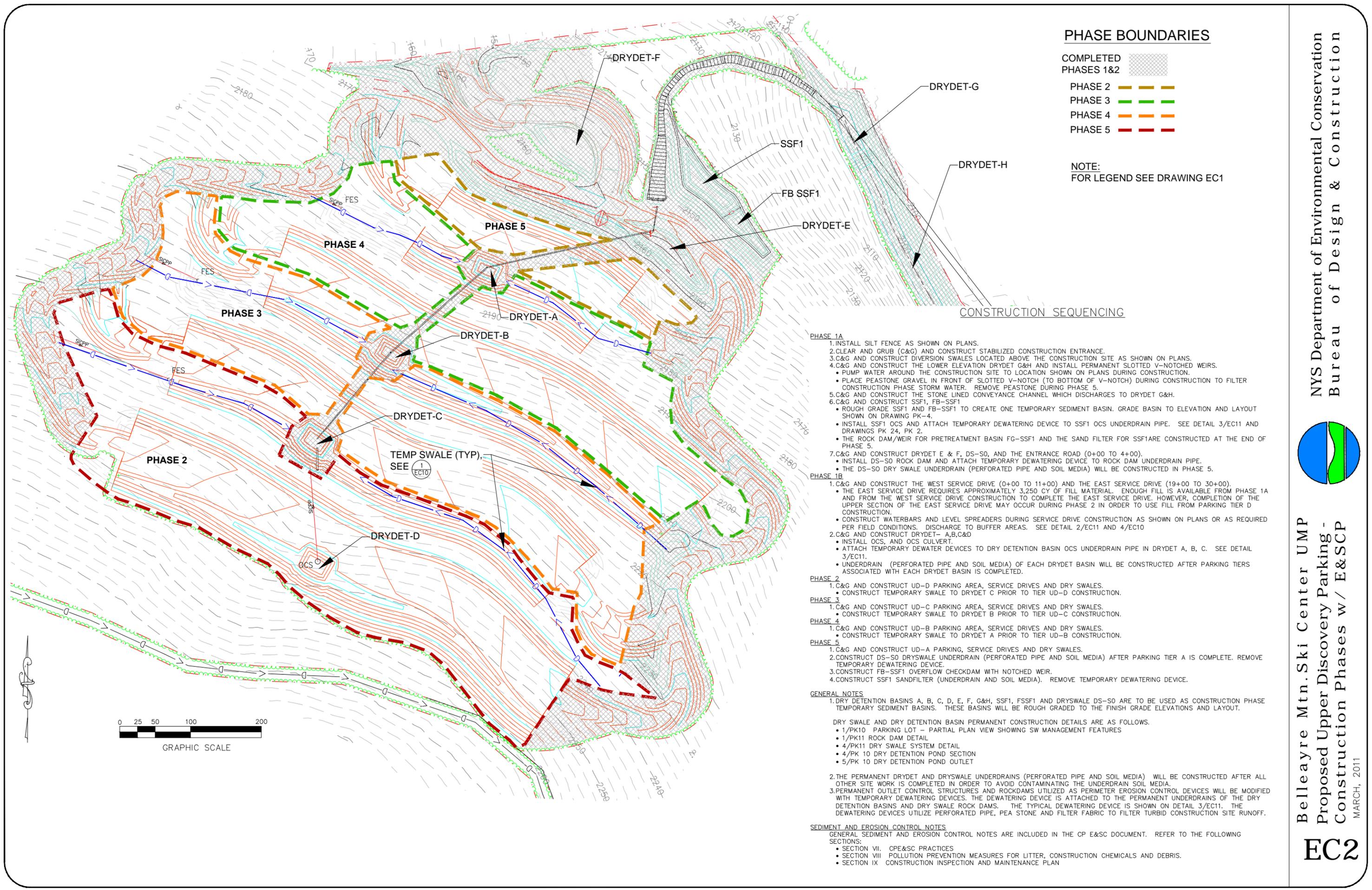
SITE LEGEND

EXISTING	PROPOSED
INDEX CONTOUR	---
INTERMEDIATE CONTOUR	---
STORMWATER PIPE	---
LEVEL SPREADER	LS ---
SILT FENCE	---
DIVERSION SWALE	---
TEMPORARY SWALE	---
FLAIR/CHAMF END SECTION	FES
HEADWALL/TAIWALL	HW
OUTLET CONTROL STRUCTURE	OCS
DRAINAGE MH	DMH
CATCH BASIN	CB

NOTES:

1. ROUGH GRADE SSF1 AND FB-SSF1. SANDFILTER AND PRETREATMENT WEIROVER TO BE CONSTRUCTED AFTER SITWORK, SEE DETAIL1/PK15
2. CLEARING IS LIMITED TO SHADED AREAS
3. SEE DRAWING EC2 FOR CONSTRUCTION PHASING AND EROSION & SEDIMENT CONTROL NOTES





PHASE BOUNDARIES

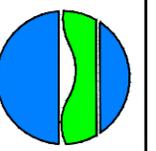
COMPLETED PHASES 1&2

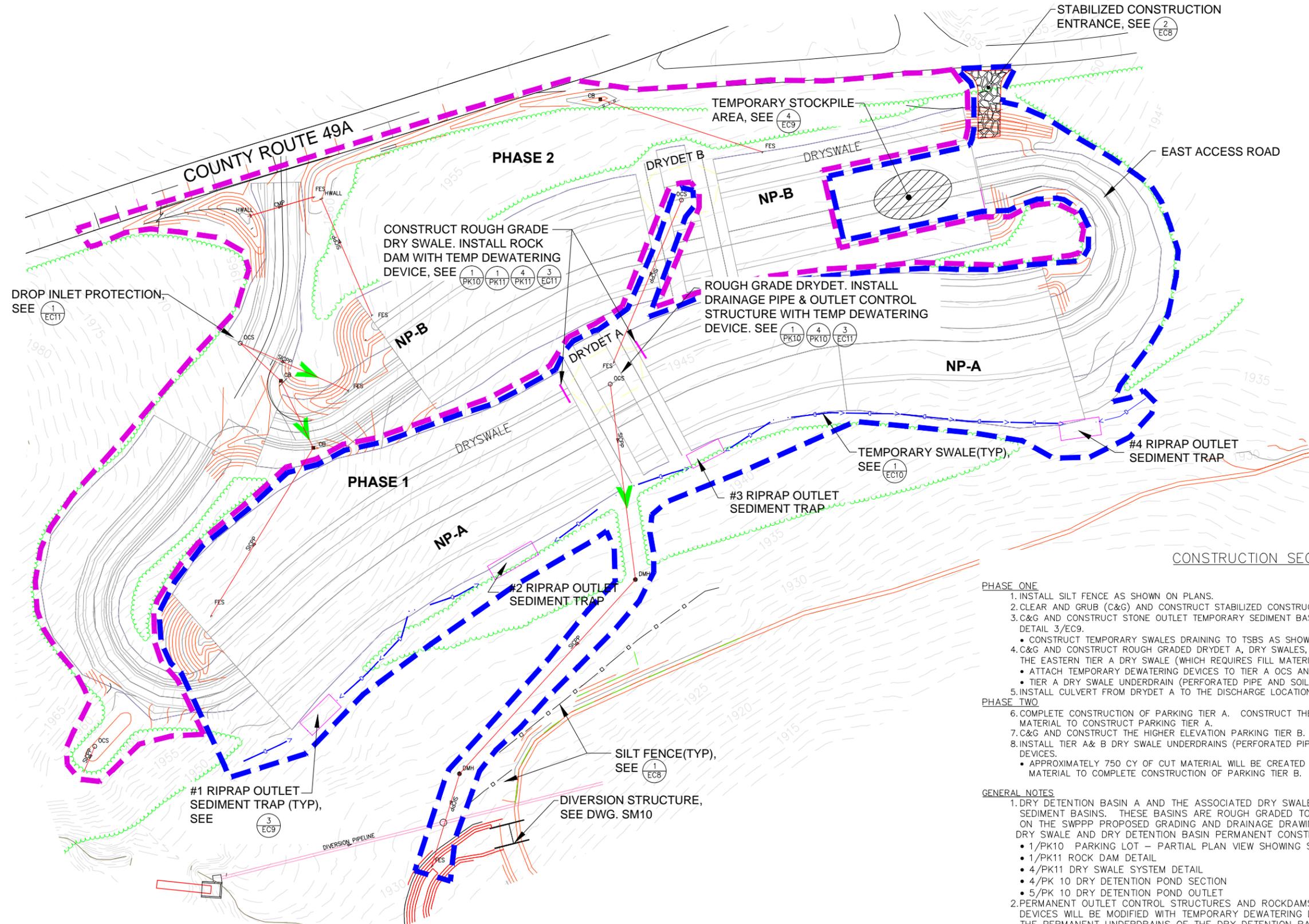
- PHASE 2
- PHASE 3
- PHASE 4
- PHASE 5

NOTE:
FOR LEGEND SEE DRAWING EC1

CONSTRUCTION SEQUENCING

- PHASE 1A**
1. INSTALL SILT FENCE AS SHOWN ON PLANS.
 2. CLEAR AND GRUB (C&G) AND CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE.
 3. C&G AND CONSTRUCT DIVERSION SWALES LOCATED ABOVE THE CONSTRUCTION SITE AS SHOWN ON PLANS.
 4. C&G AND CONSTRUCT THE LOWER ELEVATION DRYDET G&H AND INSTALL PERMANENT SLOTTED V-NOTCHED WEIRS.
 - PUMP WATER AROUND THE CONSTRUCTION SITE TO LOCATION SHOWN ON PLANS DURING CONSTRUCTION.
 - PLACE PEASTONE GRAVEL IN FRONT OF SLOTTED V-NOTCH (TO BOTTOM OF V-NOTCH) DURING CONSTRUCTION TO FILTER CONSTRUCTION PHASE STORM WATER. REMOVE PEASTONE DURING PHASE 5.
 5. C&G AND CONSTRUCT THE STONE LINED CONVEYANCE CHANNEL WHICH DISCHARGES TO DRYDET G&H.
 6. C&G AND CONSTRUCT SSF1, FB-SSF1
 - ROUGH GRADE SSF1 AND FB-SSF1 TO CREATE ONE TEMPORARY SEDIMENT BASIN. GRADE BASIN TO ELEVATION AND LAYOUT SHOWN ON DRAWING PK-4.
 - INSTALL SSF1 OCS AND ATTACH TEMPORARY DEWATERING DEVICE TO SSF1 OCS UNDERDRAIN PIPE. SEE DETAIL 3/EC11 AND DRAWINGS PK 24, PK 2.
 - THE ROCK DAM/WEIR FOR PRETREATMENT BASIN FG-SSF1 AND THE SAND FILTER FOR SSF1 ARE CONSTRUCTED AT THE END OF PHASE 5.
 7. C&G AND CONSTRUCT DRYDET E & F, DS-SO, AND THE ENTRANCE ROAD (0+00 TO 4+00).
 - INSTALL DS-SO ROCK DAM AND ATTACH TEMPORARY DEWATERING DEVICE TO ROCK DAM UNDERDRAIN PIPE.
 - THE DS-SO DRY SWALE UNDERDRAIN (PERFORATED PIPE AND SOIL MEDIA) WILL BE CONSTRUCTED IN PHASE 5.
- PHASE 1B**
1. C&G AND CONSTRUCT THE WEST SERVICE DRIVE (0+00 TO 11+00) AND THE EAST SERVICE DRIVE (19+00 TO 30+00).
 - THE EAST SERVICE DRIVE REQUIRES APPROXIMATELY 3,250 CY OF FILL MATERIAL. ENOUGH FILL IS AVAILABLE FROM PHASE 1A AND FROM THE WEST SERVICE DRIVE CONSTRUCTION TO COMPLETE THE EAST SERVICE DRIVE. HOWEVER, COMPLETION OF THE UPPER SECTION OF THE EAST SERVICE DRIVE MAY OCCUR DURING PHASE 2 IN ORDER TO USE FILL FROM PARKING TIER D CONSTRUCTION.
 - CONSTRUCT WATERBARS AND LEVEL SPREADERS DURING SERVICE DRIVE CONSTRUCTION AS SHOWN ON PLANS OR AS REQUIRED PER FIELD CONDITIONS. DISCHARGE TO BUFFER AREAS. SEE DETAIL 2/EC11 AND 4/EC10
 2. C&G AND CONSTRUCT DRYDET- A,B,C&D
 - INSTALL OCS, AND OCS CULVERT.
 - ATTACH TEMPORARY DEWATERING DEVICES TO DRY DETENTION BASIN OCS UNDERDRAIN PIPE IN DRYDET A, B, C. SEE DETAIL 3/EC11.
 - UNDERDRAIN (PERFORATED PIPE AND SOIL MEDIA) OF EACH DRYDET BASIN WILL BE CONSTRUCTED AFTER PARKING TIERS ASSOCIATED WITH EACH DRYDET BASIN IS COMPLETED.
- PHASE 2**
1. C&G AND CONSTRUCT UD-D PARKING AREA, SERVICE DRIVES AND DRY SWALES.
 - CONSTRUCT TEMPORARY SWALE TO DRYDET C PRIOR TO TIER UD-D CONSTRUCTION.
- PHASE 3**
1. C&G AND CONSTRUCT UD-C PARKING AREA, SERVICE DRIVES AND DRY SWALES.
 - CONSTRUCT TEMPORARY SWALE TO DRYDET B PRIOR TO TIER UD-C CONSTRUCTION.
- PHASE 4**
1. C&G AND CONSTRUCT UD-B PARKING AREA, SERVICE DRIVES AND DRY SWALES.
 - CONSTRUCT TEMPORARY SWALE TO DRYDET A PRIOR TO TIER UD-B CONSTRUCTION.
- PHASE 5**
1. C&G AND CONSTRUCT UD-A PARKING, SERVICE DRIVES AND DRY SWALES.
 2. CONSTRUCT DS-SO DRYSWALE UNDERDRAIN (PERFORATED PIPE AND SOIL MEDIA) AFTER PARKING TIER A IS COMPLETE. REMOVE TEMPORARY DEWATERING DEVICE.
 3. CONSTRUCT FB-SSF1 OVERFLOW CHECKDAM WITH NOTCHED WEIR.
 4. CONSTRUCT SSF1 SANDFILTER (UNDERDRAIN AND SOIL MEDIA). REMOVE TEMPORARY DEWATERING DEVICE.
- GENERAL NOTES**
1. DRY DETENTION BASINS A, B, C, D, E, F, G&H, SSF1, FSSF1 AND DRYSWALE DS-SO ARE TO BE USED AS CONSTRUCTION PHASE TEMPORARY SEDIMENT BASINS. THESE BASINS WILL BE ROUGH GRADED TO THE FINISH GRADE ELEVATIONS AND LAYOUT.
- DRY SWALE AND DRY DETENTION BASIN PERMANENT CONSTRUCTION DETAILS ARE AS FOLLOWS.
- 1/PK10 PARKING LOT - PARTIAL PLAN VIEW SHOWING SW MANAGEMENT FEATURES
 - 1/PK11 ROCK DAM DETAIL
 - 4/PK11 DRY SWALE SYSTEM DETAIL
 - 4/PK 10 DRY DETENTION POND SECTION
 - 5/PK 10 DRY DETENTION POND OUTLET
2. THE PERMANENT DRYDET AND DRYSWALE UNDERDRAINS (PERFORATED PIPE AND SOIL MEDIA) WILL BE CONSTRUCTED AFTER ALL OTHER SITE WORK IS COMPLETED IN ORDER TO AVOID CONTAMINATING THE UNDERDRAIN SOIL MEDIA.
 3. PERMANENT OUTLET CONTROL STRUCTURES AND ROCKDAMS UTILIZED AS PERIMETER EROSION CONTROL DEVICES WILL BE MODIFIED WITH TEMPORARY DEWATERING DEVICES. THE DEWATERING DEVICE IS ATTACHED TO THE PERMANENT UNDERDRAINS OF THE DRY DETENTION BASINS AND DRY SWALE ROCK DAMS. THE TYPICAL DEWATERING DEVICE IS SHOWN ON DETAIL 3/EC11. THE DEWATERING DEVICES UTILIZE PERFORATED PIPE, PEA STONE AND FILTER FABRIC TO FILTER TURBID CONSTRUCTION SITE RUNOFF.
- SEDIMENT AND EROSION CONTROL NOTES**
- GENERAL SEDIMENT AND EROSION CONTROL NOTES ARE INCLUDED IN THE CP E&SC DOCUMENT. REFER TO THE FOLLOWING SECTIONS:
- SECTION VII. CPE&SC PRACTICES
 - SECTION VIII. POLLUTION PREVENTION MEASURES FOR LITTER, CONSTRUCTION CHEMICALS AND DEBRIS.
 - SECTION IX. CONSTRUCTION INSPECTION AND MAINTENANCE PLAN



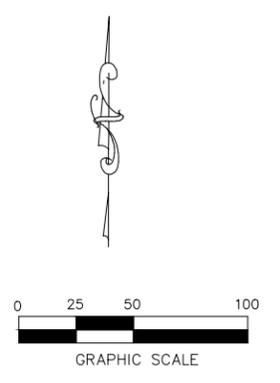


PHASE BOUNDARIES

PHASE 1 ---

PHASE 2 ---

NOTE:
FOR LEGEND SEE DRAWING EC1



CONSTRUCTION SEQUENCING

- PHASE ONE**
1. INSTALL SILT FENCE AS SHOWN ON PLANS.
 2. CLEAR AND GRUB (C&G) AND CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE.
 3. C&G AND CONSTRUCT STONE OUTLET TEMPORARY SEDIMENT BASINS (TSBS) 1, 2, 3, & 4 AS SHOWN ON PLANS. SEE DETAIL 3/EC9.
 - CONSTRUCT TEMPORARY SWALES DRAINING TO TSBS AS SHOWN ON PLANS. SEE DETAIL 1/EC10.
 4. C&G AND CONSTRUCT ROUGH GRADED DRYDET A, DRY SWALES, AND ROCK DAMS. USE CUT MATERIAL TO COMPLETE THE EASTERN TIER A DRY SWALE (WHICH REQUIRES FILL MATERIAL) AND BEGIN TIER A PARKING AREA CONSTRUCTION.
 - ATTACH TEMPORARY DEWATERING DEVICES TO TIER A OCS AND ROCK DAM UNDERDRAIN PIPE. SEE DETAIL 3/EC11.
 - TIER A DRY SWALE UNDERDRAIN (PERFORATED PIPE AND SOIL MEDIA) WILL BE CONSTRUCTED IN PHASE 2.
 5. INSTALL CULVERT FROM DRYDET A TO THE DISCHARGE LOCATION AT CRYSTAL BROOK.
- PHASE TWO**
6. COMPLETE CONSTRUCTION OF PARKING TIER A. CONSTRUCT THE WEST SERVICE DRIVE (0+00 TO 5+00) AND USE CUT MATERIAL TO CONSTRUCT PARKING TIER A.
 7. C&G AND CONSTRUCT THE HIGHER ELEVATION PARKING TIER B.
 8. INSTALL TIER A & B DRY SWALE UNDERDRAINS (PERFORATED PIPE AND SOIL MEDIA). REMOVE TEMPORARY DEWATERING DEVICES.
 - APPROXIMATELY 750 CY OF CUT MATERIAL WILL BE CREATED FROM INSTALLATION OF THE UNDERDRAINS. USE MATERIAL TO COMPLETE CONSTRUCTION OF PARKING TIER B.

- GENERAL NOTES**
1. DRY DETENTION BASIN A AND THE ASSOCIATED DRY SWALES ARE TO BE USED AS CONSTRUCTION PHASE SEDIMENT BASINS. THESE BASINS ARE ROUGH GRADED TO FINISH GRADE ELEVATIONS AND LAYOUT SHOWN ON THE SWPPP PROPOSED GRADING AND DRAINAGE DRAWINGS PK- 4. DRY SWALE AND DRY DETENTION BASIN PERMANENT CONSTRUCTION DETAILS ARE AS FOLLOWS.
 - 1/PK10 PARKING LOT - PARTIAL PLAN VIEW SHOWING SW MANAGEMENT FEATURES
 - 1/PK11 ROCK DAM DETAIL
 - 4/PK11 DRY SWALE SYSTEM DETAIL
 - 4/PK 10 DRY DETENTION POND SECTION
 - 5/PK 10 DRY DETENTION POND OUTLET
 2. PERMANENT OUTLET CONTROL STRUCTURES AND ROCKDAMS UTILIZED AS PERIMETER EROSION CONTROL DEVICES WILL BE MODIFIED WITH TEMPORARY DEWATERING DEVICES. THE DEWATERING DEVICE IS ATTACHED TO THE PERMANENT UNDERDRAINS OF THE DRY DETENTION BASINS AND DRY SWALE ROCK DAMS. THE TYPICAL DEWATERING DEVICE IS SHOWN ON DETAIL 3/EC11. THE DEWATERING DEVICES UTILIZE PERFORATED PIPE, PEA STONE AND FILTER FABRIC TO FILTER TURBID CONSTRUCTION SITE RUNOFF.
 3. THE PERMANENT DRYDET AND DRYSWALE UNDERDRAINS (PERFORATED PIPE AND SOIL MEDIA) WILL BE CONSTRUCTED AFTER ALL OTHER SITE WORK IS COMPLETED IN ORDER TO AVOID CONTAMINATING THE UNDERDRAIN FILTER SAND.

SEDIMENT AND EROSION CONTROL NOTES

GENERAL SEDIMENT AND EROSION CONTROL NOTES ARE INCLUDED IN THE CP E&SC DOCUMENT. REFER TO THE FOLLOWING SECTIONS:

- SECTION VII. CPE&SC PRACTICES
- SECTION VIII. POLLUTION PREVENTION MEASURES FOR LITTER, CONSTRUCTION CHEMICALS AND DEBRIS.
- SECTION IX. CONSTRUCTION INSPECTION AND MAINTENANCE PLAN

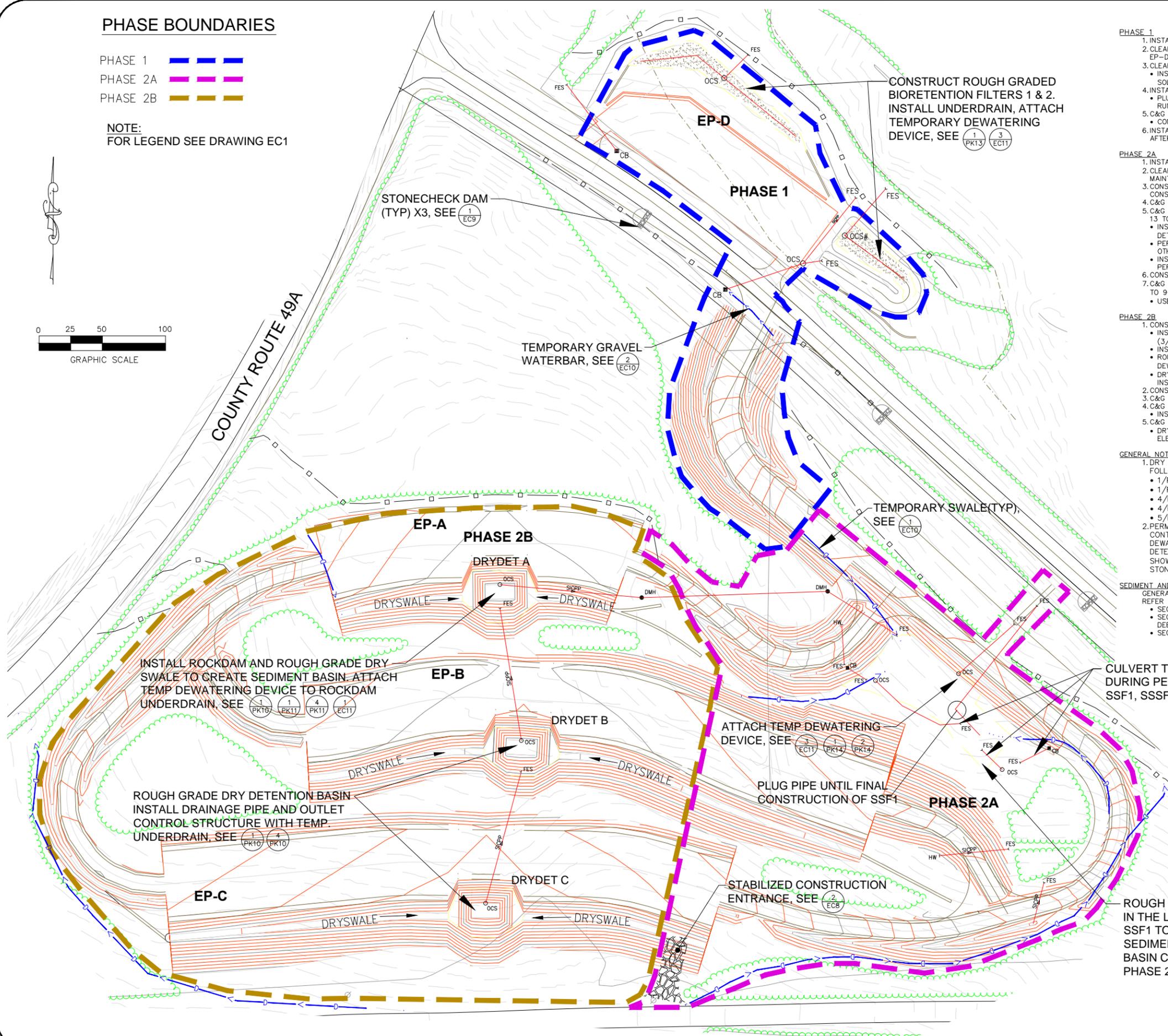
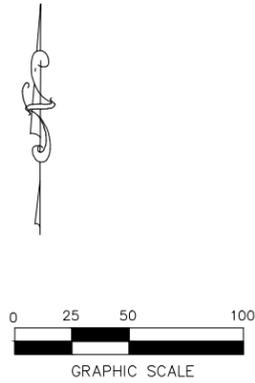
RIPRAP OUTLET SEDIMENT TRAP DETAILS

Sediment Trap	Drainage Area acre	Trap Volume CF	Weir Length Ft	Length	Width	Depth	Storage Depth
1	0.37	1350	1.5	30	15	3	1.5
2	0.40	1470	1.6	49	10	3	1.5
3	0.26	930	1.0	31	10	3	1.5
4	0.55	1980	2.2	44	15	3	1.5

PHASE BOUNDARIES

- PHASE 1
- PHASE 2A
- PHASE 2B

NOTE:
FOR LEGEND SEE DRAWING EC1



**CONSTRUCT ROUGH GRADED
BIORETENTION FILTERS 1 & 2.
INSTALL UNDERDRAIN, ATTACH
TEMPORARY DEWATERING
DEVICE, SEE**

**INSTALL ROCKDAM AND ROUGH GRADE DRY
SWALE TO CREATE SEDIMENT BASIN. ATTACH
TEMP DEWATERING DEVICE TO ROCKDAM
UNDERDRAIN, SEE**

**ROUGH GRADE DRY DETENTION BASIN
INSTALL DRAINAGE PIPE AND OUTLET
CONTROL STRUCTURE WITH TEMP.
UNDERDRAIN, SEE**

**ATTACH TEMP DEWATERING
DEVICE, SEE**

**STABILIZED CONSTRUCTION
ENTRANCE, SEE**

**CULVERT TO BE INSTALLED
DURING PERMANENT DRYDET-1,
SSF1, SSSFB1, SSSFB2**

**ROUGH GRADE SEDIMENT BASIN
IN THE LOCATION OF DRYDET1 &
SSF1 TO CREATE ONE TEMP
SEDIMENT BASIN. COMPLETE
BASIN CONSTRUCTION AFTER
PHASE 2A SITEWORK COMPLETE.**

CONSTRUCTION SEQUENCING

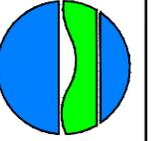
- PHASE 1**
1. INSTALL SILT FENCE AS SHOWN ON PLANS.
 2. CLEAR AND GRUB (C&G) AND CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AT PARKING AREA EP-D.
 3. CLEAR AND GRUB (C&G) AND CONSTRUCT ROUGH GRADED BIORETENTION BASINS 1&2.
 - INSTALL OUTLET CONTROL STRUCTURES AND ATTACH TEMPORARY DEWATERING DEVICES TO THE SOLID UNDERDRAIN PIPE. SEE DETAIL 3/EC11.
 4. INSTALL CATCH BASINS AND CULVERTS WHICH CONVEY RUNOFF TO BIORETENTION BASIN 1.
 - PLUG OVERFLOW CULVERT AT OCS ADJACENT TO BIOMET 1 TO DIVERT ALL CONSTRUCTION PHASE RUNOFF TO BIOMET 1. SEE DRAWING PK 13.
 5. C&G AND CONSTRUCT VAN LOAN SERVICE DRIVE TO 2+50 AND EP-D PARKING.
 - CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE.
 6. INSTALL PERMANENT BIORETENTION UNDERDRAIN COLLECTORS (PERFORATED PIPE AND SOIL MEDIA) AFTER ALL OTHER PHASE 1 SITE WORK HAS BEEN COMPLETED.

- PHASE 2A**
1. INSTALL SILT FENCE AS SHOWN ON PLANS.
 2. CLEAR AND GRUB (C&G) AND CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE NEAR THE BMSC MAINTENANCE CENTER LOCATED OFF OF U&D ROAD.
 3. CONSTRUCT DIVERSION SWALES AS SHOWN ON PLANS TO DIVERT CLEAN RUNOFF AROUND CONSTRUCTION AREA.
 4. C&G AND CONSTRUCT SIDE CONVEYANCE CHANNEL WHICH DRAINS DRYDET 1.
 5. C&G AND CONSTRUCT ROUGH GRADED DRYDET1/SSB1 TO ELEVATIONS AND LAYOUT SHOWN ON PK 13 TO CREATE ONE TEMPORARY SEDIMENT BASIN.
 - INSTALL DRYDET 1 OCS AND ATTACH TEMPORARY DEWATERING DEVICE TO UNDERDRAIN PIPE. SEE DETAIL 3/EC11.
 - PERMANENT BASINS DRYDET 1, SFF1, SFFB2 AND SFFB1 WILL BE CONSTRUCTED AFTER ALL OTHER PHASE 2 SITEWORK IS COMPLETE.
 - INSTALL SFF1 CULVERT UNDER ROADWAY TO CONVEYANCE CHANNEL AND PLUG UNTIL PERMANENT BASIN IS CONSTRUCTED.
 6. CONSTRUCT TEMPORARY SWALES DRAINING TO DRYDET-1, SFF1.
 7. C&G AND CONSTRUCT EP-A SERVICE DRIVE (20+00 TO 22+75) AND EAST SERVICE DRIVE (2+50 TO 9+00).
 - USE FILL FROM SERVICE DRIVE (0+00 TO 2+50) AND DRYDET/SSF1 EXCAVATION.

- PHASE 2B**
1. CONSTRUCT PARKING TIER A.
 - INSTALL DRYDET A OCS WITH TEMPORARY DEWATERING DEVICE ATTACHED TO UNDERDRAIN PIPE. (3/EC11).
 - INSTALL CULVERT FROM DRYDET A TO DRYDET 1.
 - ROUGH GRADE DRYSWALES AND CONSTRUCT PERMANENT ROCK DAMS WITH TEMPORARY DEWATERING DEVICES ATTACHED TO ROCK DAM UNDERDRAIN PIPE. (3/EC11)
 - DRY SWALE AND DRY DETENTION BASIN UNDERDRAIN (PERF. PIPE & SOIL MEDIA) TO BE INSTALLED AFTER PHASE 2 SITE WORK IS COMPLETED.
 2. CONSTRUCT TEMPORARY SWALES DRAINING TO DRYDET A.
 3. C&G AND CONSTRUCT THE WEST SERVICE DRIVE.
 4. C&G AND CONSTRUCT DRYDET B&C.
 - INSTALL OCS, AND CULVERTS.
 5. C&G AND CONSTRUCT PARKING TIERS B&C.
 - DRY SWALE UNDERDRAINS (PERFORATED PIPE AND SOIL MEDIA) ARE INSTALLED AFTER HIGHER ELEVATION PARKING TIERS ARE COMPLETED.

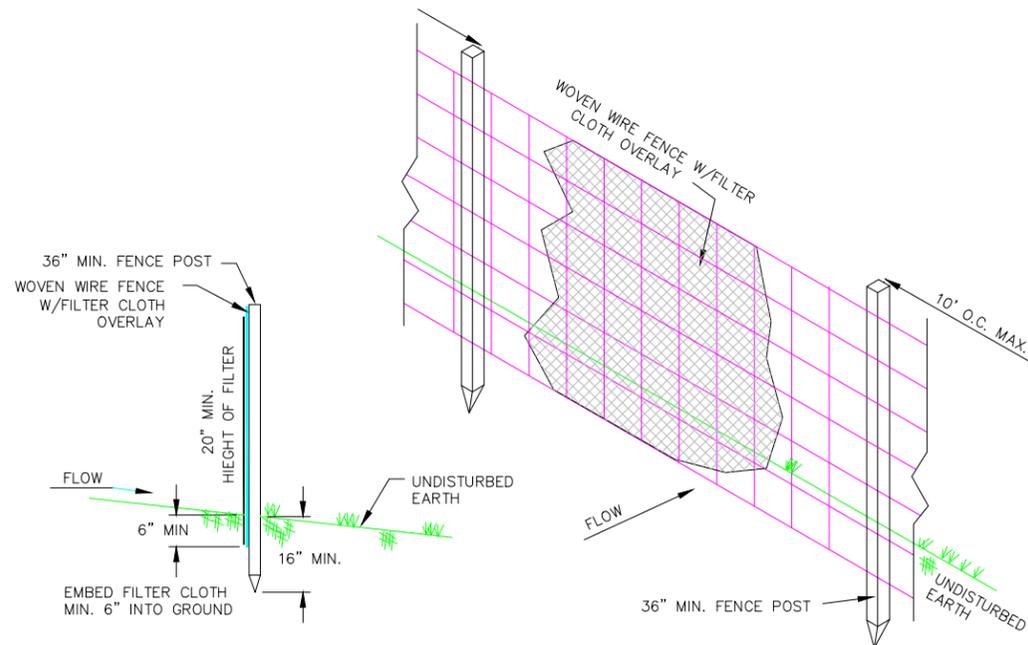
- GENERAL NOTES**
1. DRY SWALE AND DRY DETENTION BASIN PERMANENT CONSTRUCTION DETAILS ARE AS FOLLOWS.
 - 1/PK10 PARKING LOT - PARTIAL PLAN VIEW SHOWING SW MANAGEMENT FEATURES
 - 1/PK11 ROCK DAM DETAIL
 - 4/PK11 DRY SWALE SYSTEM DETAIL
 - 4/PK 10 DRY DETENTION POND SECTION
 - 5/PK 10 DRY DETENTION POND OUTLET
 2. PERMANENT OUTLET CONTROL STRUCTURES AND ROCKDAMS USED AS PERIMETER EROSION CONTROL DEVICES WILL BE MODIFIED WITH TEMPORARY DEWATERING DEVICES. THE DEWATERING DEVICE IS ATTACHED TO THE PERMANENT UNDERDRAIN PIPE OF THE DRY DETENTION BASINS AND DRY SWALE ROCK DAMS. THE TYPICAL DEWATERING DEVICE IS SHOWN ON DETAIL 3/EC11. THE DEWATERING DEVICES UTILIZE PERFORATED PIPE, PEA STONE AND FILTER FABRIC TO FILTER TURBID CONSTRUCTION SITE RUNOFF.

- SEDIMENT AND EROSION CONTROL NOTES**
- GENERAL SEDIMENT AND EROSION CONTROL NOTES ARE INCLUDED IN THE CP E&SC DOCUMENT. REFER TO THE FOLLOWING SECTIONS:
- SECTION VII. CPE&SC PRACTICES
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 - SECTION IX. CONSTRUCTION INSPECTION AND MAINTENANCE PLAN



SEDIMENT AND EROSION CONTROL NOTES

- 1) INSTALL ALL SOIL EROSION CONTROLS SHOWN ON THE SITE PLAN BEFORE RESUMING EARTHWORK OPERATIONS ON SITE.
- 2) COMPLY WITH REGULATIONS OF ALL PUBLIC AGENCIES HAVING JURISDICTION OVER SOIL EROSION AND STORM WATER CONTROL ON THE SITE.
- 3) NECESSARY MEASURES SHALL BE TAKEN TO REDUCE THE DISTURBANCE OF EXISTING VEGETATED AREAS TO THE MINIMUM AS REQUIRED BY THE WORK. THESE MEASURES SHALL INCLUDE THE CLEAR MARKING OF ALL CONSTRUCTION LIMITS AND THE DELINEATION OF ALL VEGETATED AREAS TO BE PROTECTED SO AS TO EXCLUDE ALL EQUIPMENT.
- 4) PROVIDE TEMPORARY SEEDING ON ANY AREA WHERE THE EXISTING VEGETATED COVER OR OTHER PROTECTIVE SURFACE HAS BEEN REMOVED OR SUBSTANTIALLY DISTURBED AND FURTHER WORK ON THAT AREA WILL NOT OCCUR WITHIN THE SUCCEEDING 14 CALENDAR DAYS.
- 5) TEMPORARY SEED SHALL CONSIST OF ANNUAL RYEGRASS APPLIED AT A RATE OF 2LBS. PER 1000S.F. APPLICATION SHALL TAKE PLACE WITHIN 14 CALENDAR DAYS OF THE LAST DISTURBANCE OF THE SOIL SURFACE.
- 6) LIMIT ACCESS ON UNSTABILIZED SOIL SURFACES TO THOSE VEHICLES NECESSARY FOR THE WORK. DO NOT PARK EMPLOYEES VEHICLES ON ERODIBLE SOIL SURFACES.
- 7) STABILIZE AND PROTECT SOIL SURFACES TO MINIMIZE THE GENERATION OF DUST AND THE OFF-SITE VEHICLE TRACKING OF SOIL MATERIALS.
- 8) PROVIDE EROSION CONTROL FABRIC ON DRAINAGE SWALES AND SLOPES 30N1 AND STEEPER OR WHERE SHOWN ON THE DRAWINGS. EROSION CONTROL FABRIC SHALL BE AS SPECIFIED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 9) PROVIDE FILTER CLOTH SILT FENCE AS SHOWN ON THE DRAWINGS AND AS DIRECTED IN THE FIELD. SILT FENCE MAY CONSIST OF FILTER CLOTH ATTACHED SECURELY TO WOVEN WIRE FENCE OR PREFABRICATED UNITS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- 10) PROVIDE STRAW/HAY BALE DIKES TO ENCLOSE CATCH BASIN AND DROP INLET RIMS AS SHOWN ON THE PLAN OR AS DIRECTED IN THE FIELD.
- 11) ALL PROCEDURES UNDERTAKEN SHALL BE MAINTAINED IN A TIMELY MANNER. THE EFFECTIVENESS OF ALL CONTROLS MEASURES, ALL DISTURBED AREAS, AREAS USED FOR THE STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION AND HAVE NOT BEEN FINALLY STABILIZED, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY MONTH UNTILL THE ENTIRE SITE IS FINALLY STABILIZED. DEFICIENCIES FOUND SHALL BE CORRECTED WITHIN 7 CALENDAR DAYS OF INSPECTION.
- 12) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF ALL CONTROL MEASURES. ALL INSPECTIONS SHALL BE JOINTLY CONDUCTED BY THE DEPARTMENT AND THE GENERAL CONTRACTOR.



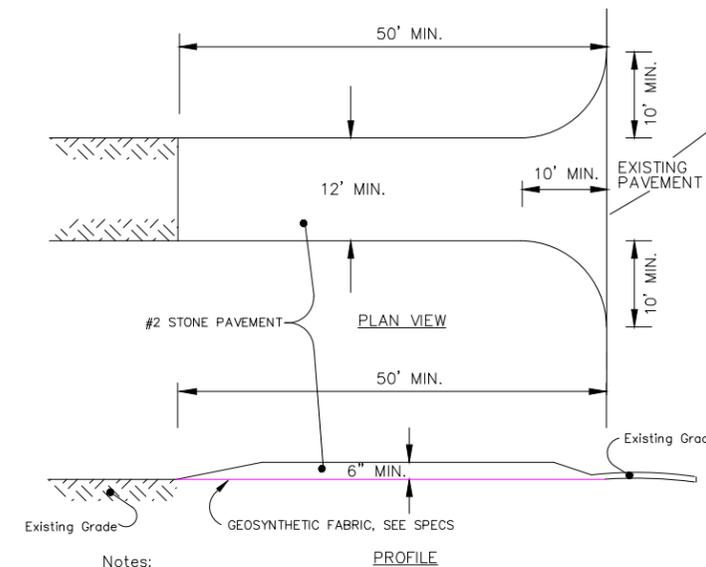
NOTES:

- 1) WOVEN WIRE FENCE TO BE FASTENED TO POSTS W/WIRE TIES OR STAPLES
- 2) FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE MESH W/TIES SPECED EVERY 24" AT TOP BOTTOM AND MID SECTION
- 3) WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED
- 4) MAINTENANCE SHALL BE PERFORMED AS NEEDED AND THE RETAINED MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL

SCALE: N.T.S.

1
EC8



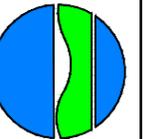
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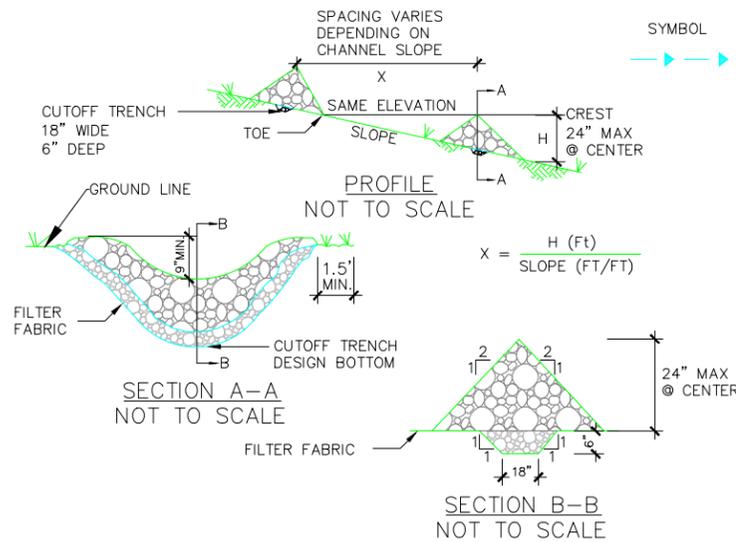
1. STONE SIZE - USE 1" TO 4" STONE.
2. LENGTH - NOT LESS THAN 50 FEET
3. THICKNESS - NOT LESS THAN 6 INCHES
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE
5. FABRIC - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FOLLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE AND ACCESS ROAD DETAIL

SCALE: N.T.S.

2
EC8

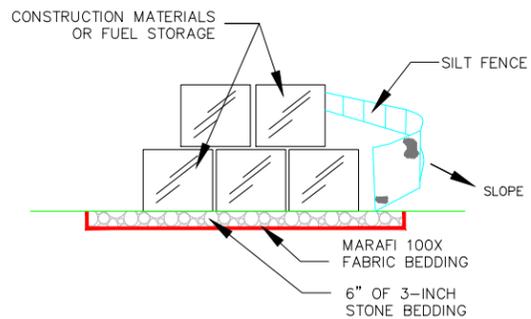




CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. MAXIMUM DRAINAGE AREA 2 ACRES.

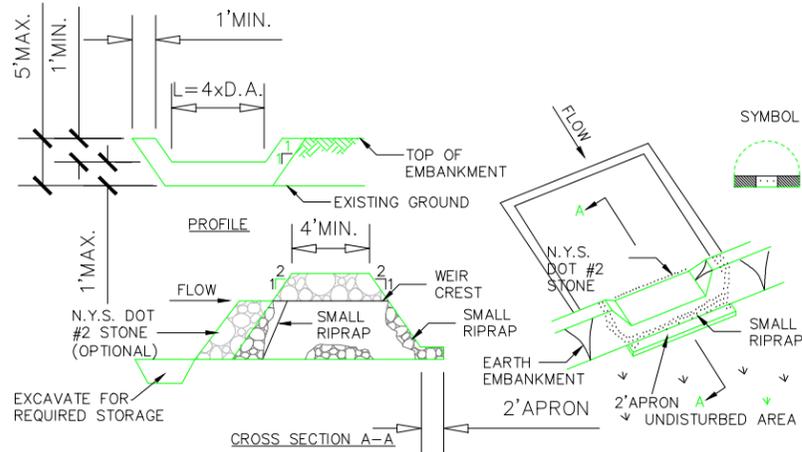
CHECK DAM
SCALE: N.T.S. 1 EC9



CONSTRUCTION SPECIFICATIONS

1. AREA CHOSEN FOR STORAGE OPERATIONS SHALL BE DRY AND STABLE.
2. MINIMUM DISTANCE TO A NATURAL WATER COURSE SHALL BE 50'.
3. THE TOP SIX INCHES OF NATIVE MATERIAL SHALL BE REMOVED FROM MATERIAL/FUEL STORAGE AREA AND REPLACED WITH MARAFI 100X GEOTEXTILE FABRIC AND SIX INCHES OF CRUSHED STONE BEDDING. CRUSHED STONE SHALL MEET NYSDOT ITEM No. 623.11 SPECIFICATIONS.
4. SILT FENCING SHALL BE PLACED 5-FEET DOWNSLOPE OF STORAGE AREA.
5. TEMPORARY PERIMETER DIKES MAY BE REQUIRED TO DIRECT CLEAN RUNOFF FROM STORAGE AREAS. REFER TO EROSION AND SEDIMENT CONTROL PLAN

FUEL OR MATERIAL STORAGE AREA
SCALE: N.T.S. 2 EC9

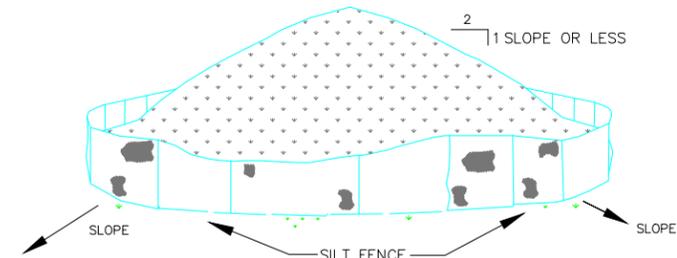


OPTION: A ONE FOOT LAYER OF N.Y.S. DOT #2 STONE MAY BE PLACED ON THE UPSTREAM SIDE OF THE RIPRAP IN PLACE OF THE EMBEDDED FILTER CLOTH.

CONSTRUCTION SPECIFICATIONS

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
4. THE STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP 4"-8" ALONG WITH A 1' THICKNESS OF 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIPRAP OR EMBEDDED FILTER CLOTH IN THE RIPRAP.
5. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP.
6. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
8. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED. MAXIMUM DRAINAGE AREA 5 ACRES

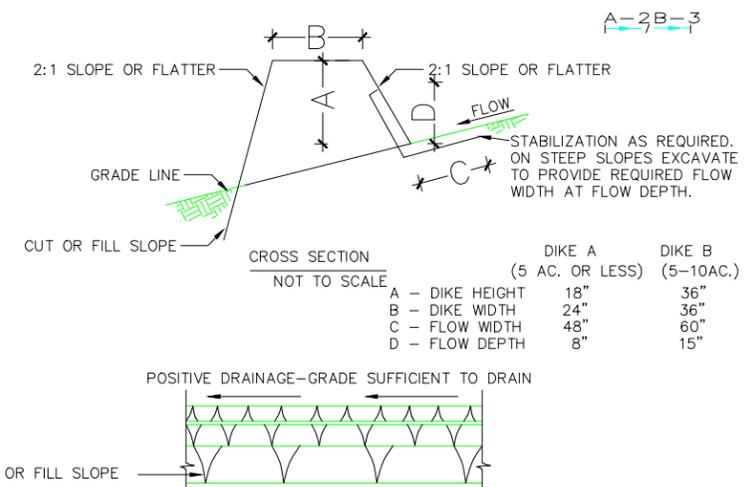
STONE OUTLET SEDIMENT TRAP
SCALE: N.T.S. 3 EC9



CONSTRUCTION SPECIFICATIONS

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. SILT FENCING SHALL BE PLACED 5-FEET DOWNSLOPE OF EACH PILE. UPON COMPLETION OF SOIL STOCKPILING, TOPSOIL SHALL BE STABILIZED WITH SEED AND MULCH IF NOT TO BE DISTURBED/UTILIZED WITHIN 14 DAYS.
4. SEE ADDITIONAL DETAILS FOR INSTALLATION OF SILT FENCE.
5. TEMPORARY PERIMETER DIKES MAY BE REQUIRED TO DIRECT CLEAN RUNOFF FROM STOCKPILE AREAS. REFER TO EROSION AND SEDIMENT CONTROL PLAN.

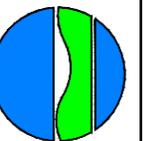
SOIL STOCKPILE
SCALE: N.T.S. 4 EC9

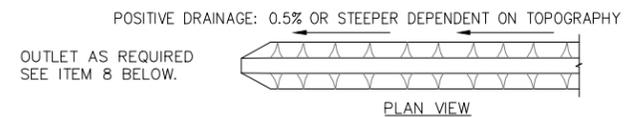
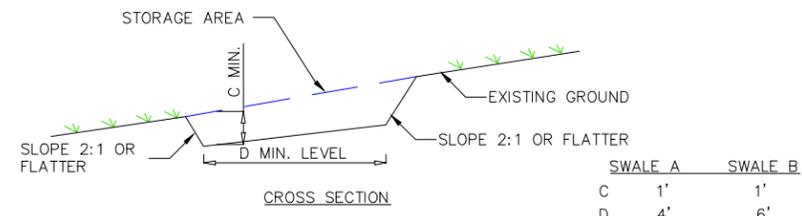


CONSTRUCTION SPECIFICATIONS

1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
6. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART ON THE PREVIOUS PAGE.

EARTH DIKE
SCALE: N.T.S. 5 EC9





CONSTRUCTION NOTES:

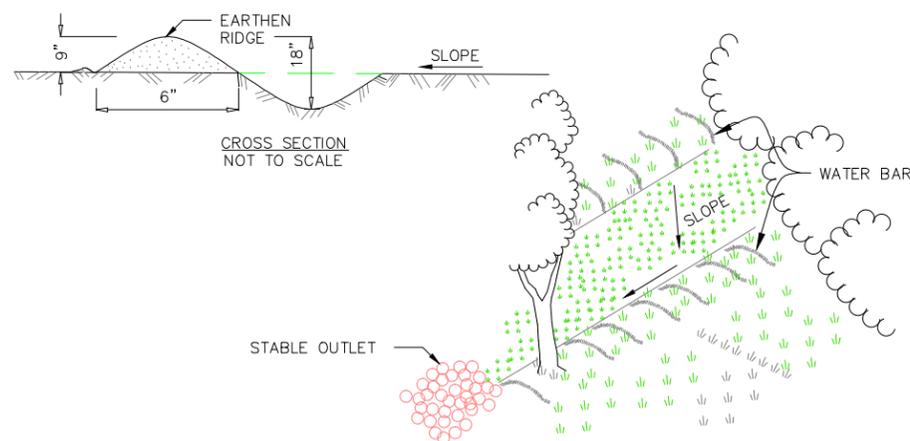
1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

TYPE OF TREATMENT	CHANNEL GRADE	A(5 AC. OR LESS)	B(5 AC -10AC)
1	0.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR
3	5.1-8.0%	SEED WITH JUTE OR EXCELSIOR, SOD	LINED WITH 4-8" RIP-RAP OR

TEMPORARY SWALE

1
EC10

SCALE: N.T.S.



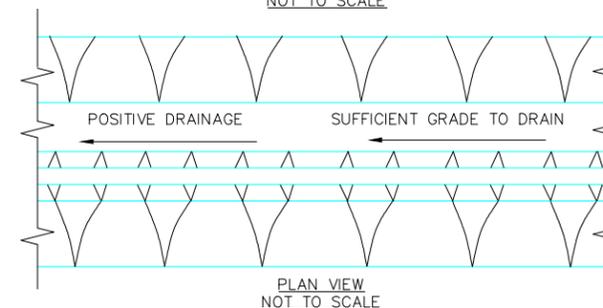
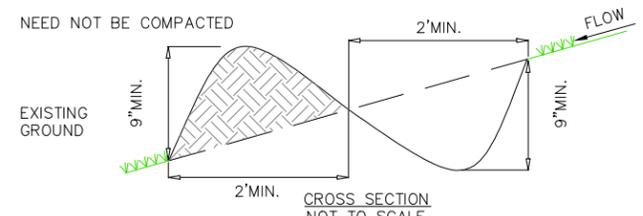
CONSTRUCTION NOTES:

1. INSTALL THE WATER BAR AS SOON AS THE RIGHT OF WAY IS CLEARED AND GRADED.
2. DISK OR STRIP THE SOD FROM THE BASE FOR THE CONSTRUCTED RIDGE BEFORE PLACING FILL.
3. TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS SECTION.
4. THE OUTLET SHALL BE LOCATED ON AN UNDISTURBED AREA. FIELD SPACING WILL BE ADJUSTED TO USE THE MOST STABLE OUTLET AREAS. OUTLET PROTECTION WILL BE PROVIDED WHEN NATURAL AREAS ARE NOT ADEQUATE.
5. VEHICLE CROSSING SHALL BE STABILIZED WITH GRAVEL. EXPOSED AREAS SHALL BE IMMEDIATELY SEEDED AND MULCHED.
6. PERIODICALLY INSPECT WATER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.

WATER BAR

2
EC10

SCALE: N.T.S.



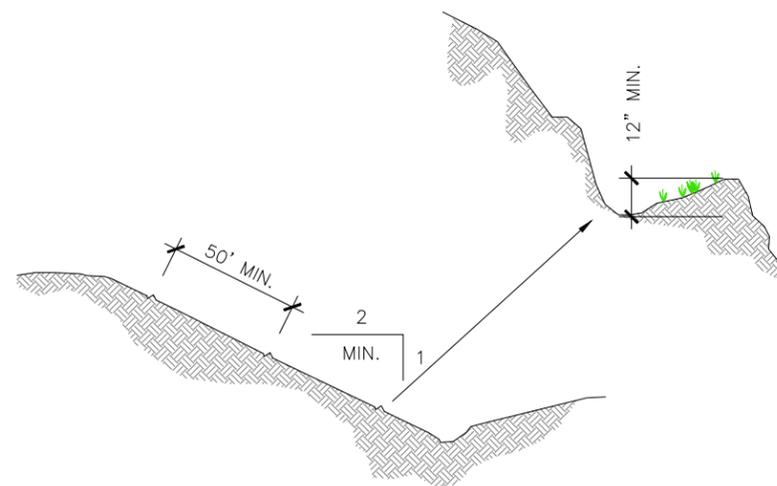
CONSTRUCTION NOTES:

1. ALL PERIMETER DIKE/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
 2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
 3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSION VELOCITY.
 4. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE NYS E&SC STANDARDS.
 5. STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SPECIFICATIONS FOR TEMPORARY SEEDING AND MULCHING, AND SHALL BE DONE WITHIN 10 DAYS.
 6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.
- MAX. DRAINAGE AREA LIMIT: 2 ACRES

PERIMETER SWALE

3
EC10

SCALE: N.T.S.



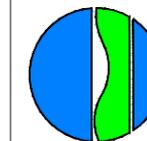
CONSTRUCTION NOTES:

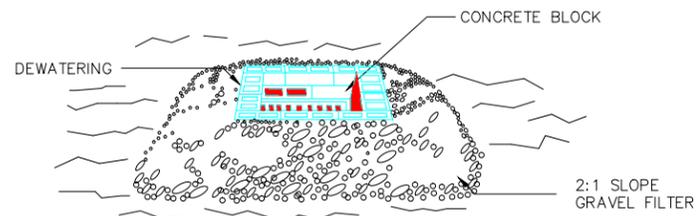
- 1.) WATERBARS SHALL BE SLOPED FROM THE CENTER TO THE EDGE OF THE SKI RUN.
- 2.) WATERBARS SHALL BE CLOSER TOGETHER AND DEEPER AS SLOPE BECOMES GREATER.
- 3.) LOCATE WATERBARS AS SHOWN ON SITE PLAN

CROSS SLOPE WATER BAR

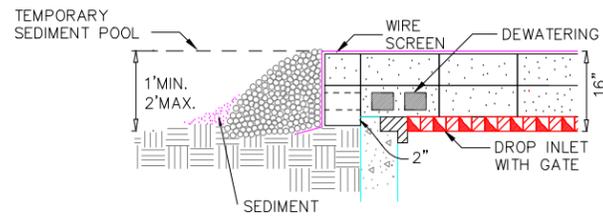
4
EC10

SCALE: N.T.S.

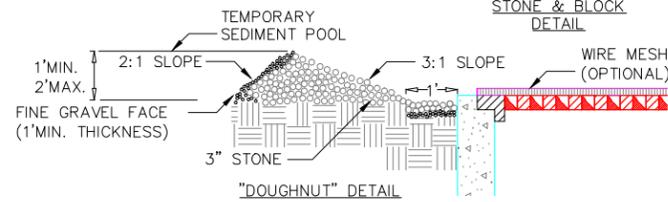




STONE & BLOCK
PLAN VIEW



STONE & BLOCK
DETAIL



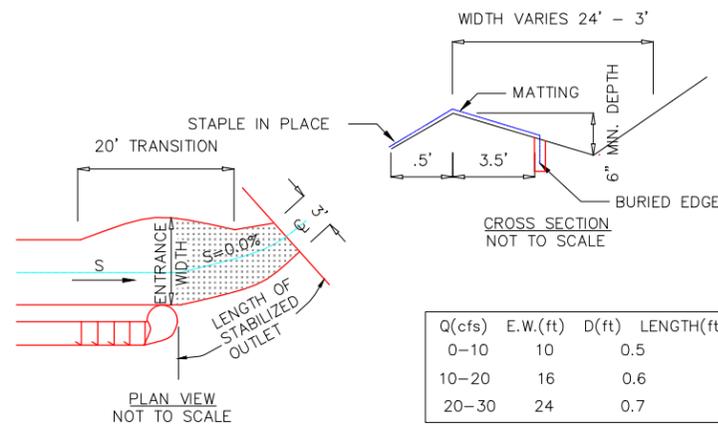
CONSTRUCTION NOTES:

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
 2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
 3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
 4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.
- MAXIMUM DRAINAGE AREA 1 ACRE

DROP INLET PROTECTION

SCALE: N.T.S.

1
EC11



CONSTRUCTION NOTES:

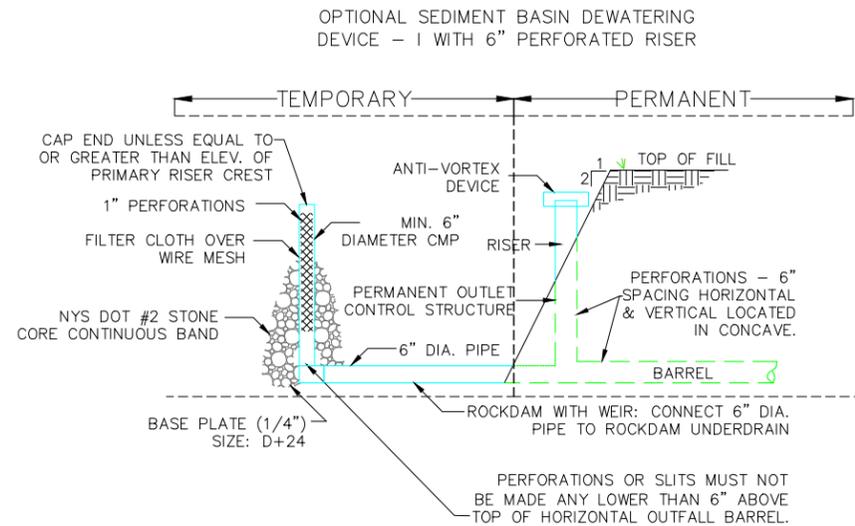
1. THE MATTING SHOULD BE A MINIMUM OF 4FT. WIDE EXTENDING 6 INCHES OVER THE LIP AND BURIED 6 INCHES DEEP IN A VERTICAL TRENCH ON THE LOWER EDGE. THE UPPER EDGE SHOULD BUTT AGAINST SMOOTHLY CUT SOD AND BE SECURELY HELD IN PLACE WITH CLOSELY SPACED HEAVY DUTY WIRE STAPLES AT LEAST 12 INCHES IN LENGTH.
2. ENSURE THAT THE LIP IS LEVEL TO UNIFORMLY SPREAD DISCHARGE.
3. THE LIP SHALL BE CONSTRUCTED ON UNDISTURBED SOIL NOT FILL.
4. A 20 FOOT TRANSITION SECTION WILL BE CONSTRUCTED FROM THE DIVERSION CHANNEL TO THE SPREADER TO SMOOTHLY BLEND THE DIFFERENT DIMENSION AND GRADES.
5. THE RUNOFF DISCHARGE WILL BE OUTLETED ONTO A STABILIZED VEGETATED SLOPE NOT EXCEEDING 10%.
6. SEED AND MULCH THE DISTURBED AREA IMMEDIATELY AFTER CONSTRUCTION.

LEVEL SPREADER

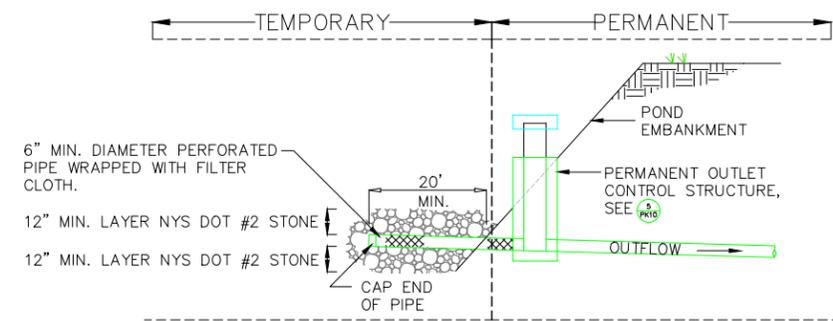
SCALE: N.T.S.

2
EC11

Q(cfs)	E.W.(ft)	D(ft)	LENGTH(ft)
0-10	10	0.5	10
10-20	16	0.6	20
20-30	24	0.7	30



OPTIONAL SEDIMENT BASIN DEWATERING
DEVICE - II

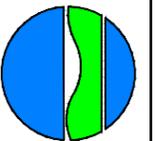


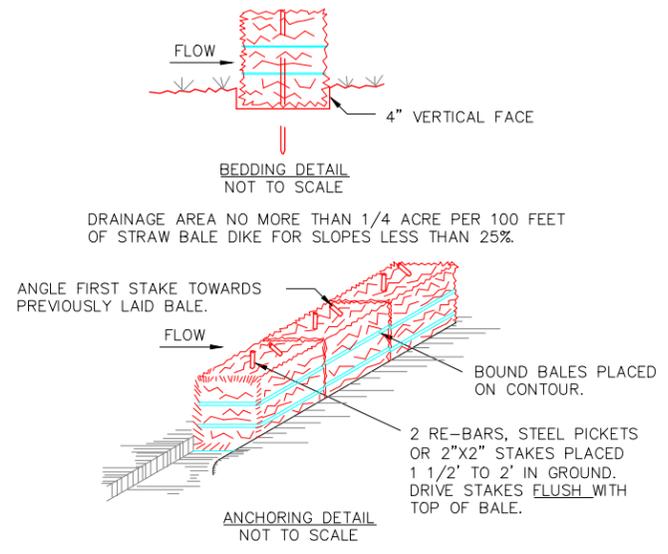
NOTE: TO BE USED WITH DRY DETENTION BASINS
& ROCKDAMS AT DRYSWALES

BASIN DEWATERING DEVICE

SCALE: N.T.S.

3
EC11





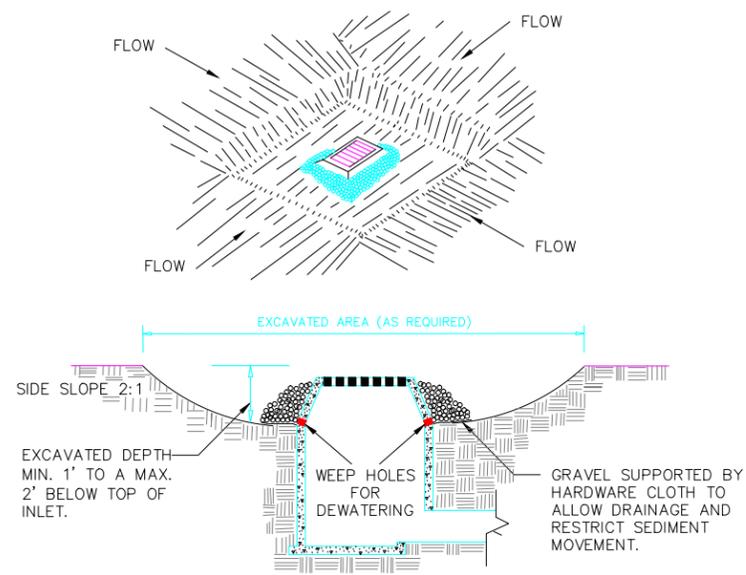
CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

STRAW BALE DIKE DETAIL

SCALE: N.T.S.

1
EC12



CONSTRUCTION SPECIFICATIONS

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
 2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
 3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
 4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.
- MAXIMUM DRAINAGE AREA 1 ACRE

EXCAVATED DROP INLET PROTECTION DETAIL

SCALE: N.T.S.

2
EC12

