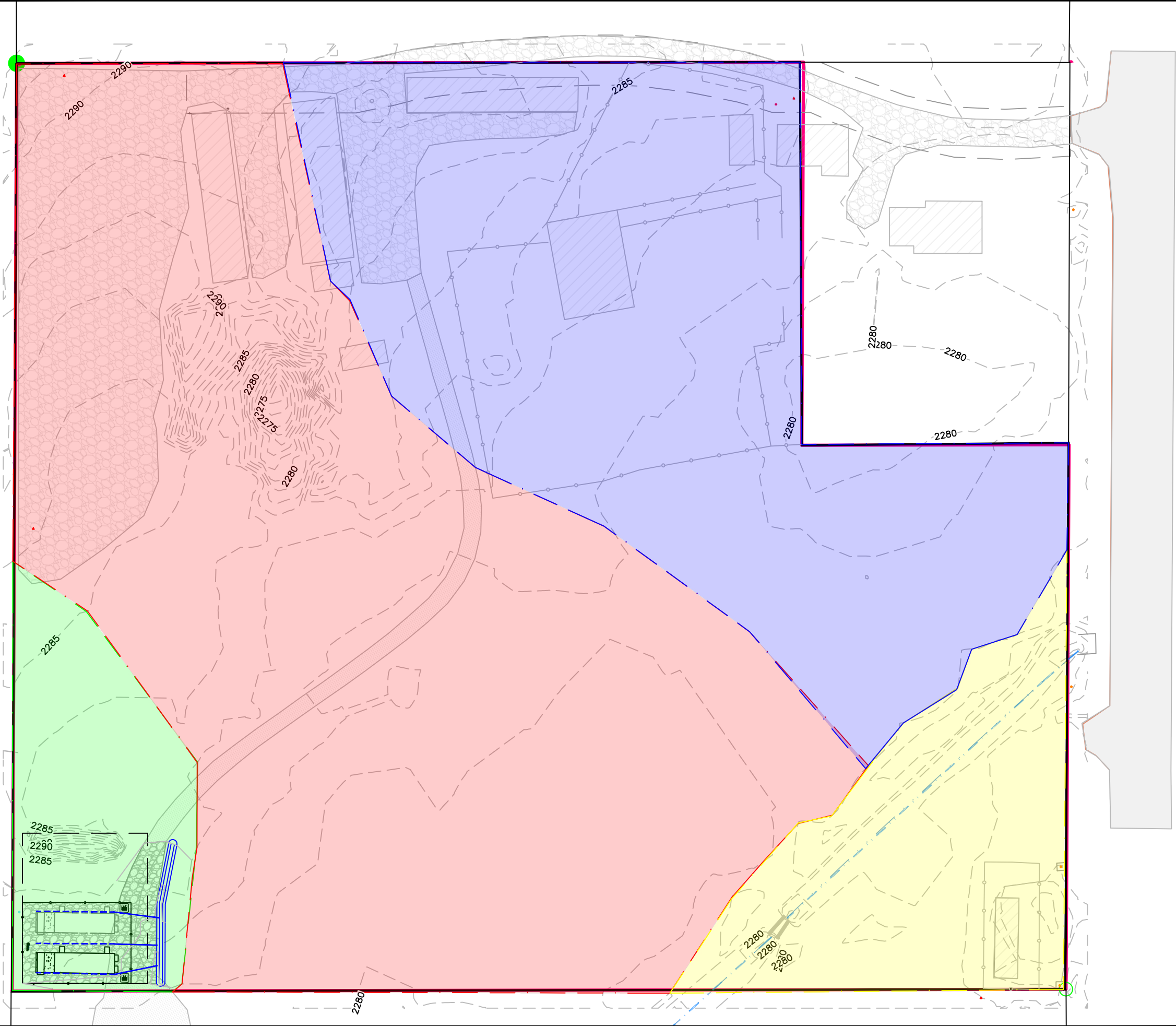


LEGEND

- BASIN 1
- BASIN 2
- BASIN 3
- BASIN 4



0 30' 60'

SCALED FOR 22' X 34' DRAWING SHEET  
CONTOURS ARE IN 1' INTERVALS



**Clearwater Engineering**  
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BASIN DELINEATIONS

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- SITE NOTES:**
1. UTILITY LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED HORIZONTALLY AND VERTICALLY BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
  2. ALL CONSTRUCTION PRACTICES SHALL BE IN ACCORDANCE WITH LATEST ISPMC STANDARDS.
  3. STRUCTURES SHALL BE SET BACK A MINIMUM OF 40' FROM WETLANDS. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION.

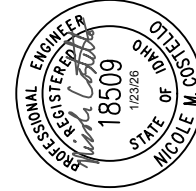
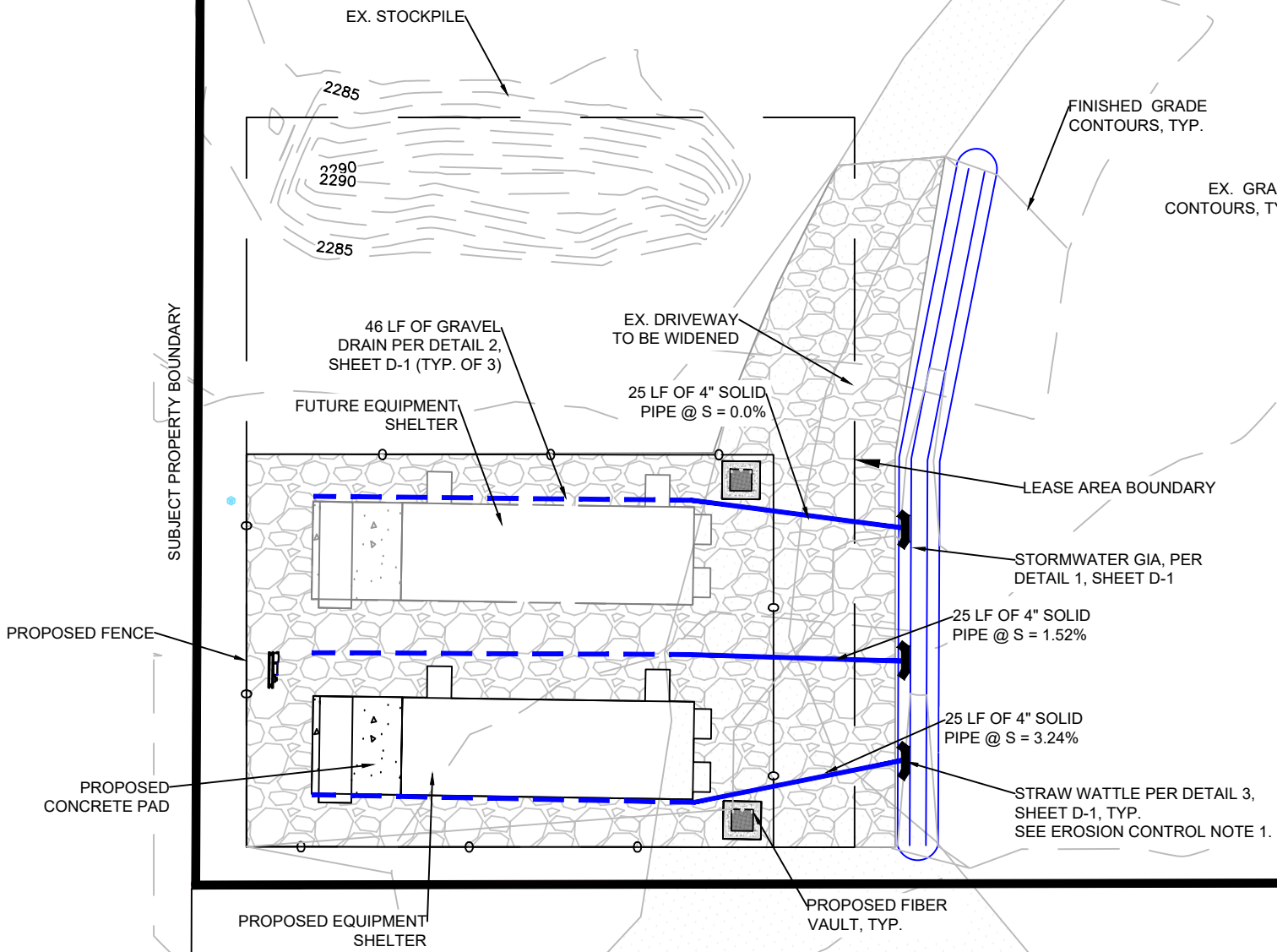
- STORMWATER NOTES:**
1. THE PROPOSED STORMWATER GRASSED INFILTRATION AREA (GIA) SHALL SERVE AS TREATMENT AND STORAGE FOR THE 25-YEAR STORM.

- EROSION CONTROL NOTES:**
1. INSTALL STRAW WATTLES PRIOR TO CONSTRUCTION AND PERPENDICULAR TO THE LINE OF FLOW AT PIPE OUTFALLS AND AROUND STOCKPILES.
  2. CONTRACTOR SHALL INSPECT STRAW WATTLES PRIOR TO A FORECASTED RAIN, DAILY DURING EXTENDED RAIN EVENTS, AFTER RAIN EVENTS, AND WEEKLY DURING THE RAINY SEASON.
  3. CONTRACTOR SHALL REPAIR OR REPLACE SPLIT, TORN, UNRAVELING, OR SLUMPING STRAW WATTLES.
  4. STRAW WATTLES SHALL REMAIN IN PLACE AND OPERATIONAL UNTIL THE DRAINAGE AREA IS COMPLETELY STABILIZED.
  5. ALL DISTURBED SURFACES THAT ARE NOT PAVED, GRAVEL TOPPED, PONDS, LANDSCAPED OR WITHIN STRUCTURE FOOTPRINTS ARE TO BE GIVEN A MINIMUM OF 4" OF TOPSOIL AND ARE TO BE SEEDDED.
  6. DUST ABATEMENT WILL BE ACHIEVED USING A WATER TRUCK AS NEEDED AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  7. A TEMPORARY CONSTRUCTION ENTRANCE SHALL BE USED TO PREVENT VEHICLE TRACK-OFF FROM THE SITE.
  8. THE CONTRACTOR IS RESPONSIBLE FOR THESE MEASURES.

**LEGEND**



DIRECTION OF FLOW



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STORMWATER AND EROSION CONTROL  
PLAN

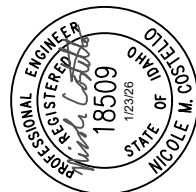


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0 10' 20'  
SCALED FOR 22' X 34' DRAWING SHEET  
CONTOURS ARE IN 1' INTERVALS

1. ELEVATIONS SHOWN ARE RELATIVE TO THE PROPOSED FINISHED FLOOR ELEVATIONS (FFE).
2. EXISTING TOPOGRAPHY WAS OBTAINED FROM SURVEY PROVIDED BY OWNER.
3. FINISHED GRADE CUT AND FILL SLOPES GREATER THAN 2:1 ARE NOT PERMITTED WITHOUT CONSULTING A DESIGN PROFESSIONAL WHO CAN ASSESS THE SITE AND APPROVE FEASIBILITY OF SUCH SLOPES ON SITE.
4. TOP OF CUT SLOPES ARE NOT PERMITTED WITHIN 5' OF PROPERTY LINES.
5. FFE = FINISHED FLOOR ELEVATION  
FG = FINISHED GRADE  
EOG = EDGE OF GRAVEL  
TOC = TOP OF CONCRETE  
SW B = SWALE BOTTOM  
SW T = SWALE TOP  
IE = INVERT ELEVATION



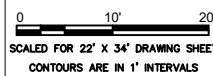
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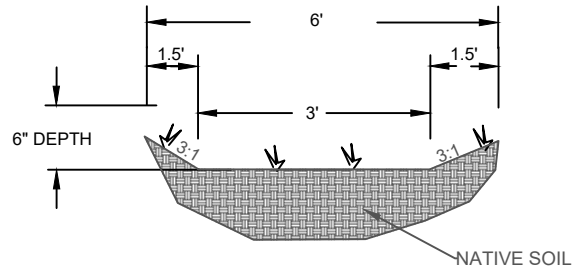
# GRADING PLAN



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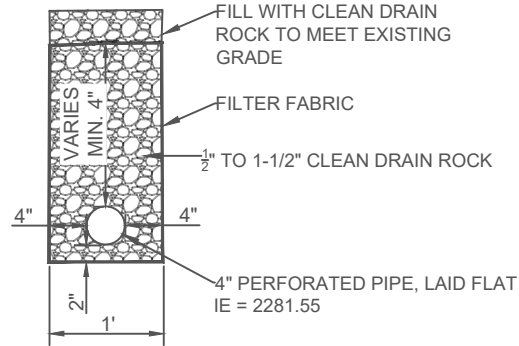




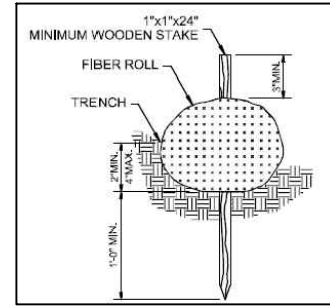


**SWALE #1**  
TOP WIDTH = 6'  
BOTTOM WIDTH = 3'  
BOTTOM LENGTH = 84'  
VOLUME = 189 CF

- SWALE TO BE INSTALLED WITH TOPSOIL AND GRASS SEED.



- PERFORATED PIPE TO BE 4" PVC AND CENTERED IN 1/2" TO 1-1/2" CLEAN DRAIN ROCK ENCOMPASSED IN MIRAFI 140NL FILTER FABRIC OR APPROVED EQUAL.
- FILTER FABRIC SHALL BE OVERLAPPED 6" AT THE TOP OF THE AGGREGATE.

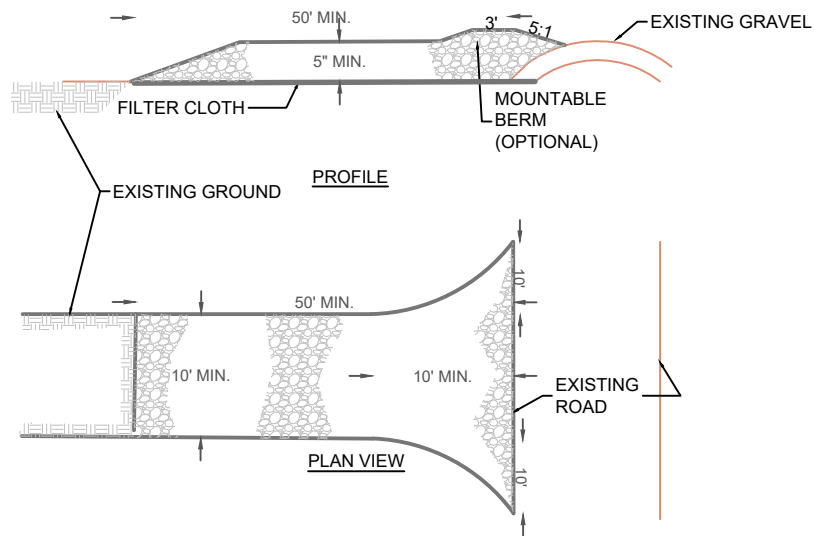


- STRAW WATTLE SHALL CONSIST OF STRAW, FLAX, OR OTHER SIMILAR MATERIALS BOUND INTO A BIODEGRADABLE TUBULAR PLASTIC OR SIMILAR ENCASING MATERIAL.
- THE ENDS OF THE STRAW WATTLES SHALL BE TURNED UP SLOPE TO PREVENT RUNOFF BYPASSING THE ROLL.
- PREFABRICATED WATTLES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- STAKE WATTLES INTO A 2 TO 4 INCH DEEP TRENCH WITH A WIDTH EQUAL TO THE DIAMETER OF THE WATTLE. DRIVE STAKES AT THE END OF EACH WATTLE AND SPACED A MAXIMUM OF 4 FEET ON CENTER. USE WOOD STAKES WITH A NOMINAL CLASSIFICATION OF 1 X 1 INCH MINIMUM AND A LENGTH OF 24 INCHES.
- WATTLES SHALL BE OVERLAPPED WHEN MORE THAN ONE IS PLACED IN A ROW.
- CONTRACTOR SHALL INSPECT WATTLES PRIOR TO A FORECASTED RAIN, DAILY DURING EXTENDED RAIN EVENTS, AFTER RAIN EVENTS, AND WEEKLY DURING THE RAINY SEASON.
- CONTRACTOR SHALL REPAIR OR REPLACE SPLIT, TORN, UNRAVELING, OR SLUMPING STRAW WATTLES.
- CONTRACTOR SHALL REMOVE SEDIMENT WHEN SEDIMENT ACCUMULATION REACHED ONE-HALF THE HEIGHT OF THE WATTLE.
- STRAW WATTLES SHALL REMAIN IN PLACE AND OPERATIONAL UNTIL THE DRAINAGE AREA IS COMPLETELY STABILIZED.

1 TYPICAL SWALE CROSS-SECTION NTS

2 GRAVEL DRAIN CROSS SECTION DETAIL NTS

3 STRAW WATTLE DETAIL AND NOTES NTS



- STONE - SHALL BE 2" OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- FILTER CLOTH - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL OCCUR AFTER EACH RAINFALL.

4 VEHICLE TRACK OUT CONTROL DETAIL NTS



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STORMWATER AND EROSION CONTROL  
DETAILS



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