

**EROSION AND SEDIMENT CONTROL NOTES**

- 1. AN INDUSTRIAL WASTE PERMIT WILL BE REQUIRED SHOULD PUMPING TO CITY-OWNED INFRASTRUCTURE BECOME NECESSARY DURING CONSTRUCTION...
- 2. INLET PROTECTION SHOULD BE PROVIDED FOR ALL INLETS OWNED BY PWD THAT ARE LOCATED WITHIN ONE BLOCK OF THE PROJECT SITE...
- 3. PWD IS NOT RESPONSIBLE FOR ANY CLEANING OR REPAIRS NEEDED ON CITY-OWNED INFRASTRUCTURE DUE TO FAILURE OF ANY EROSION AND SEDIMENT CONTROL PRACTICES...
- 4. INSPECTION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL OCCUR ON A WEEKLY BASIS...
- 5. THE MAXIMUM HEIGHT FOR STOCKPILE AREAS SHALL BE 35 FEET...
- 6. THE ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED ON SITE...
- 7. FILTER FABRIC FENCE SHOULD BE INSTALLED AT LEVEL GRADE...
- 8. ANY FENCE SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET...
- 9. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER...
- 10. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION...
- 11. UNTIL THE SITE IS STABILIZED, ALL EBS BMP'S SHALL BE MAINTAINED PROPERLY...
- 12. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING, AS WELL AS CUTS AND FILLS, SHALL BE DONE IN ACCORDANCE WITH THE APPROVED EBS PLAN...
- 13. AT LEAST THREE (3) DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES...
- 14. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS...
- 15. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER OBSTRUCTIVE MATERIAL...
- 16. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE...
- 17. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS...
- 18. LOG SHOWING DATES THAT EBS BMP'S WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE...
- 19. ALL SEDIMENT REMOVED FROM BMP'S SHALL BE DISPOSED OF IN LANDSCAPE AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOOD PLAINS, OR DRAINAGE SWALES...
- 20. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF THREE TO FIVE INCHES...
- 21. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE, OR OTHER RELATED PROBLEMS...
- 22. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED NINE INCHES IN THICKNESS...
- 23. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOIL, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS...
- 24. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS...
- 25. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES...
- 26. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR SURFACE DRAIN OR OTHER APPROVED METHOD...
- 27. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE...
- 28. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS...
- 29. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER...
- 30. EBS BMP'S SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP...
- 31. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EBS BMP'S MUST BE REMOVED OR CONVERTED TO PERMANENT POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES...
- 32. SEDIMENT BASINS AND/OR TRAPS SHALL BE KEPT FREE OF ALL CONSTRUCTION WASTE, WASH WATER, AND OTHER DEBRIS...
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- TEMPORARY MULCHING
1. MULCH PROPOSED LANDSCAPE AREAS OR TOPSOIL STOCKPILES IF EARTHWORK IS COMPLETED OUTSIDE OF THE RECOMMENDED PLANTING SEASONS...
- EMERGENCY SEEDING
DURING CONSTRUCTION, ALL DISTURBED AREAS SHOULD BE SEEDDED ACCORDING TO THE FOLLOWING INSTRUCTIONS: SEEDING RECOMMENDATIONS FOR SIX (6) TO TWELVE (12) MONTH PERIODS:
1. INSTALL NEEDED WATER-CONTROL MEASURES.
2. PERFORM ALL CULTURAL OPERATIONS AT RIGHT ANGLES TO THE SLOPE.
3. MULCH ACCORDING TO SOIL TEST, KNOWLEDGE OF SITE, OR APPLY TWO (2) TONS OF GROUND LIMESTONE PER ACRE.
4. FERTILIZE ACCORDING TO SOIL TEST, KNOWLEDGE OF SITE, OR APPLY 40-40-40, PER ACRE.
5. INCORPORATE LIME AND FERTILIZER INTO THE TOP 4) INCHES OF SURFACE SOIL BY DISING OR OTHER SUITABLE MEANS.
6. SEED ONE (1) OF THE FOLLOWING MIXTURES AT THE MOST SUITABLE DATE, APPLY UNIFORMLY WITH A DRILL OR BY BROADCASTING.
A. MARCH 1 TO OCTOBER 1 - TWENTY (20) POUNDS OF ANNUAL RYE OR FIELD BROMEGRASS PER ACRE.
B. MARCH 1 TO MAY 30 - TWENTY (20) POUNDS OF ANNUAL RYE GRASS OR FIELD BROMEGRASS AND SIXTY-FOUR (64) POUNDS OF SPRING oats PER ACRE.
C. AUGUST 1 TO NOVEMBER 1 - TWENTY (20) POUNDS OF ANNUAL RYE GRASS OR FIELD BROMEGRASS AND ONE HUNDRED TWENTY (120) POUNDS OF WINTER RYE PER ACRE.
7. COVER GRASS AND LEGUME SEEDS ONE-QUARTER (1/4) INCH DEEP WITH CULTIPACKER OR HARROW. COVER RYE OR OATS ABOUT TWO (2) INCHES DEEP.
8. MOW RYE OR OATS JUST BEFORE THEY HEAD OUT IF SOPE PERMITS.

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**TOPSOIL STOCKPILE NOTES**

- 1. TOPSOIL SHOULD BE FREE OF DEBRIS, SUCH AS WEEDS AND STONES, AND CONTAINS NO TOXIC SUBSTANCE THAT MAY BE HARMFUL TO PLANT GROWTH. STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
- 2. TOPSOIL AND CLEAN FILL MUST NOT BE MIXED. SEPARATE STOCKPILES FOR EACH SHALL BE DESIGNATED. ADEQUATE SEDIMENT CONTROLS MUST BE CONSTRUCTED AT THE STOCKPILE AREAS.
- 3. THE CONTRACTOR SHALL LOCATE THE PROPOSED TOPSOIL STOCKPILE AT AN APPROPRIATE LOCATION WHICH DOES NOT CONTACT WITH THE PROPOSED CONSTRUCTION. THE TOPSOIL STOCKPILE SHALL BE STORED AND PROTECTED FROM EROSION IN ACCORDANCE WITH THE NOTES AND DETAILS.
- 4. THE HEIGHT OF THE STOCKPILE SHALL NOT EXCEED 35 FEET AND SHALL NOT HAVE A SLOPE IN EXCESS OF 2:1.

**SITE DEWATERING NOTES**

- 1. THE CONTRACTOR SHALL DE-WATER EXCAVATIONS IN ACCORDANCE WITH THE SITE DEWATERING DETAIL AND NOTES. THE CONTRACTOR SHALL NOT BE PERMITTED TO DISCHARGE SEDIMENT LADEN RUNOFF DIRECTLY INTO THE EXISTING/PROPOSED STORM SEWER SYSTEM. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP SUCH AS A FILTER BAG WHICH SHALL DISCHARGE OVER NON-DISTURBED PVIOUS AREAS.
- 2. AN INDUSTRIAL WASTE PERMIT WILL BE REQUIRED SHOULD PUMPING TO CITY OWNED INFRASTRUCTURE BECOME NECESSARY DURING CONSTRUCTION.
- 3. THE NECESSARY DEWATERING OPERATIONS SHALL BE IMPLEMENTED IN ORDER TO MAINTAIN THE GROUNDWATER/PERCHED WATER TABLE TO A MINIMUM OF 2 FEET BELOW THE PREVAILING EXCAVATION BOTTOM DURING EXCAVATION AND BACKFILLING.
- 4. THE SOIL AND FOUNDATION ENGINEERING REPORT BY UNDERWOOD ENGINEERING, DATED MAY 31, 2013, REVEALED NO PRESENCE OF GROUNDWATER OR PERCHED WATER TO A DEPTH OF 18 FEET BELOW THE EXISTING GROUND SURFACE. HOWEVER, THE CONTRACTOR SHALL NOTE THAT GROUNDWATER ELEVATIONS ARE SUBJECT TO DAILY AND/OR SEASONAL VARIATIONS AND THEREFORE, HE SHOULD BE PREPARED TO IMPLEMENT THE DEWATERING OPERATIONS SPECIFIED BY THESE PLANS.

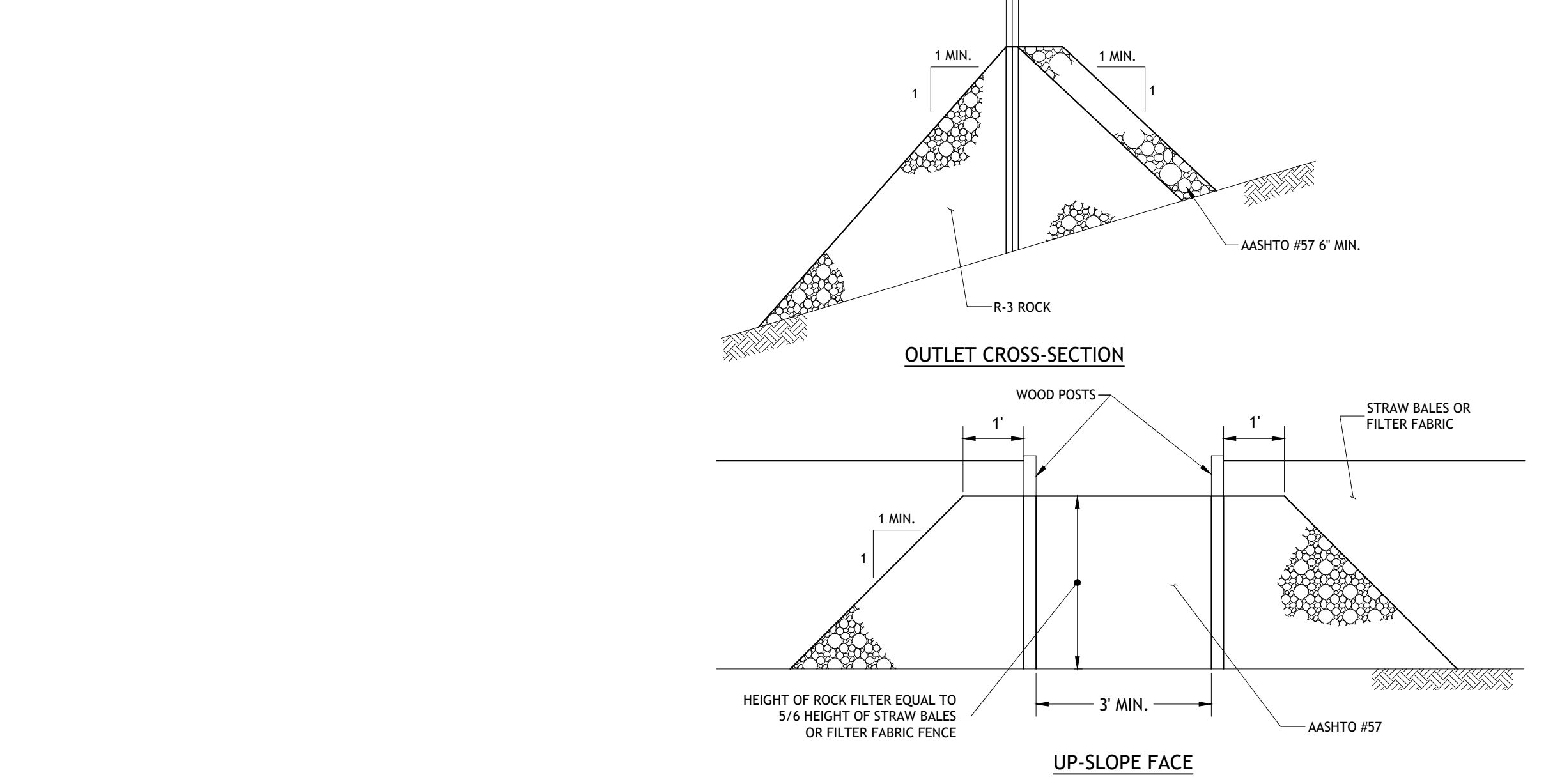
**ROCK CONSTRUCTION ENTRANCE NOTES**

- 1. IMMEDIATELY AFTER INITIAL SITE DISTURBANCE A CRUSHED STONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. THIS STABILIZED CONSTRUCTION ENTRY WILL BE OF SUFFICIENT SIZE TO REDUCE OFF-SITE TRACKING OF CONSTRUCTION TRAFFIC AND WILL BE MAINTAINED IN GOOD ORDER UNTIL ALL ROADWAYS ARE STABILIZED. MINIMUM DIMENSIONS SHALL BE 50 LONG X 25 WIDE X 8" THICK, UNDERLAIN WITH FILTER FABRIC, AND SHALL BE COMPOSED OF AASHTO NO. 1 STONE.
- 2. ALL VEHICLES AND EQUIPMENT MUST ENTER OR EXIT THROUGH THE ROCK CONSTRUCTION ENTRANCE (RCE). VEHICLES ENTERING AND EXITING THE RCE MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.
- 3. THE ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED ON SITE AND SUPPLEMENTED WHEN NECESSARY TO PREVENT OFF-SITE SEDIMENT TRACKING. A STONE STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE.
- 4. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE SWEEPED, REMOVED, AND RETURNED TO THE CONSTRUCTION SITE AND/OR DISPOSED OF IN AN A LAISSE AND APPROPRIATE MANNER. NO SEDIMENT SHALL BE WASHED INTO EXISTING STORM SEWER SYSTEMS.

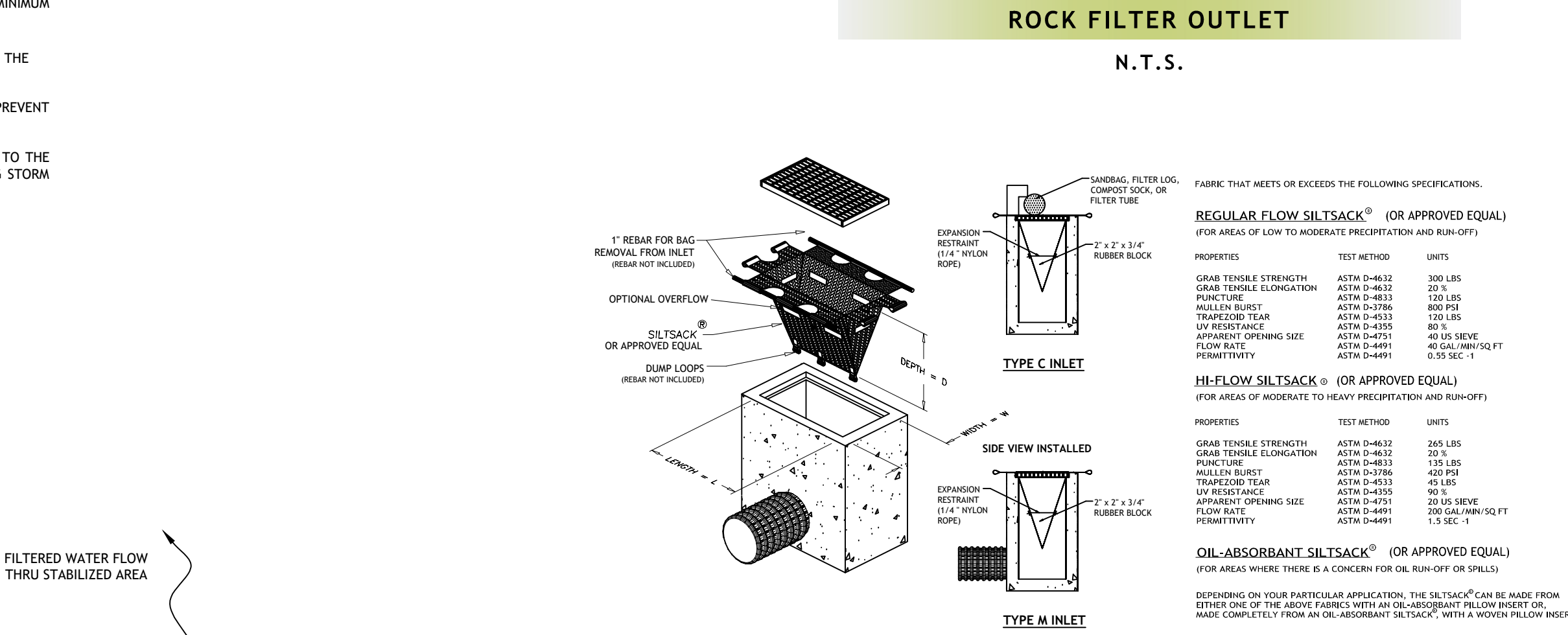
- SEEDING DATES SHALL BE BETWEEN MARCH 1 AND NOVEMBER 15.
- 1. HAY OR STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE.
- 2. MULCH WITH MULCH CONTROL NETTING OR EROSION CONTROL BLANKETS MUST BE INSTALLED ON ALL SLOPES GREATER THAN 3:1.
- 3. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.
- TEMPORARY SEEDING
1. THE FOLLOWING SURFACES OF THE SITE SHALL BE TEMPORARILY SEEDDED AND MULCHED:
A. THE SURFACE OF TOPSOIL STOCKPILES.
B. THE SURFACE OF EXPOSED EARTH AREAS THAT WILL BE EXPOSED WITHOUT CONSTRUCTION ACTIVITY THEREON.
2. SEEDING SHALL OCCUR IMMEDIATELY AFTER ESTABLISHMENT OF THE TOPSOIL STOCKPILES OR ROUGH GRADED AREAS. THE FOLLOWING SHALL BE PLANTED:
A. 40 LBS./ACRE ANNUAL RYE GRASS - COMMON, 100% P.L.S.
3. PREPARE AREAS TO BE SEEDDED AS FOLLOWS:
A. REMOVE ALL DEBRIS, INCLUDING LARGE STONES. TILL SOIL TO A DEPTH OF 3 TONS PER ACRE AND FERTILIZER AT THE RATE OF 50-50 PER ACRE AND WORK INTO SOIL.
B. SOW SEED AT THE INDICATED RATE. DIVIDE SEED INTO TWO EQUAL LOTS. SOW ONE LOT IN ONE DIRECTION. SOW SECOND LOT AT RIGHT ANGLE TO FIRST. RAKE SEEDED AREA SLIGHTLY. ROLL SURFACE LIGHTLY TO FIRM SOIL AROUND SEED.
4. PLACE CLEAN DRY STRAW OR HAY MULCH WITHIN 48 HOURS AFTER SEEDING. PLACE AT THE RATE OF 3 TONS PER ACRE.

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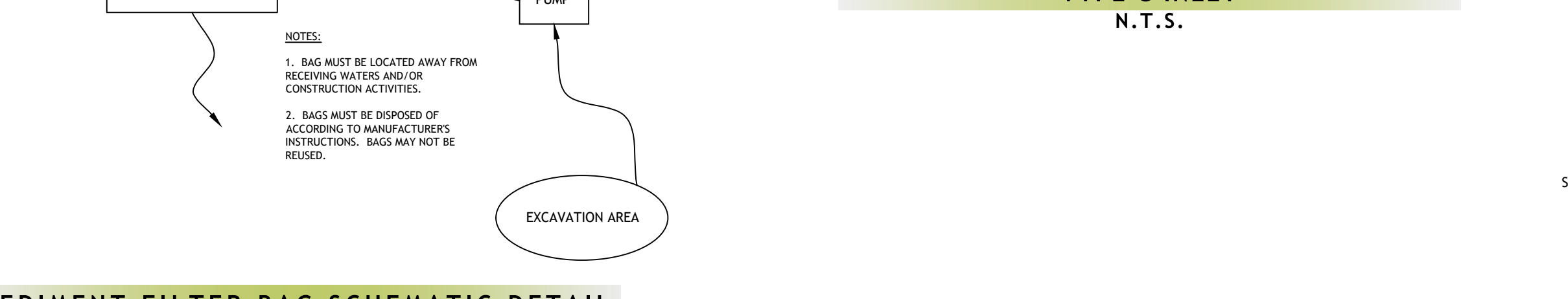
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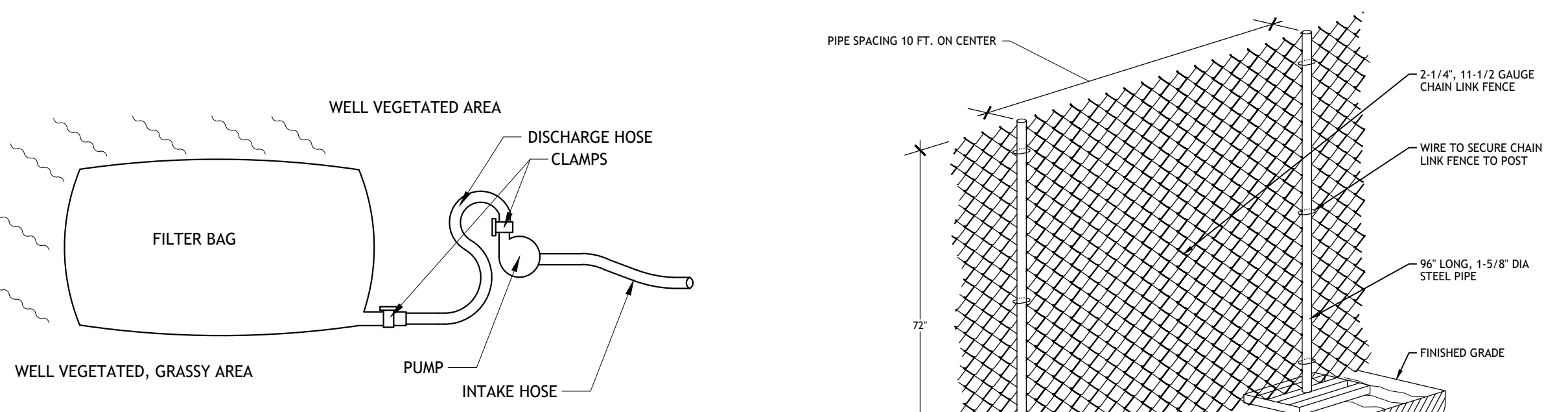
**ROCK FILTER OUTLET**



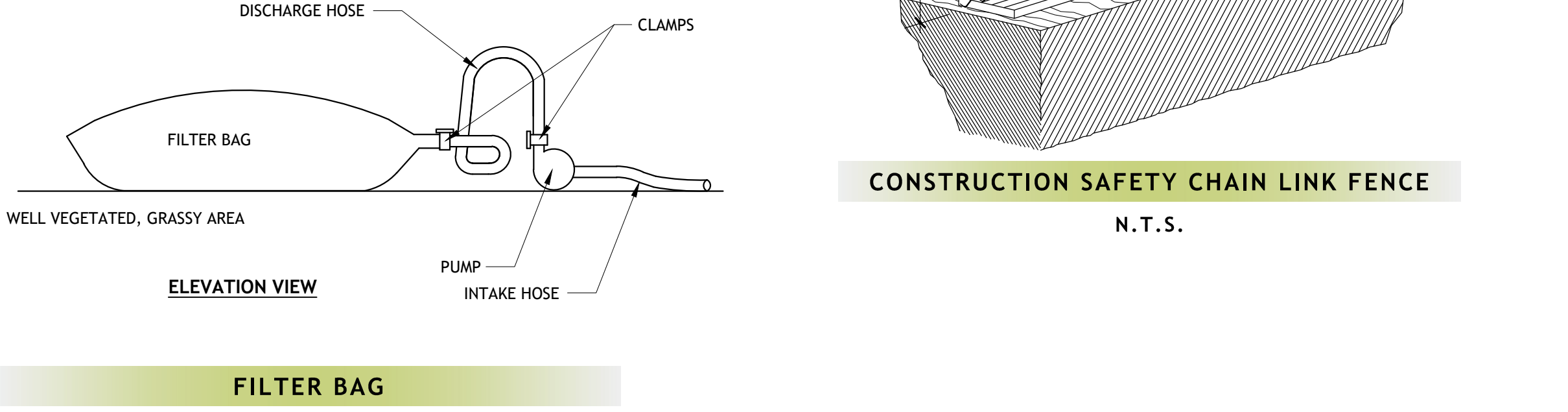
**FILTER BAG INLET PROTECTION - TYPE M AND TYPE C INLET**



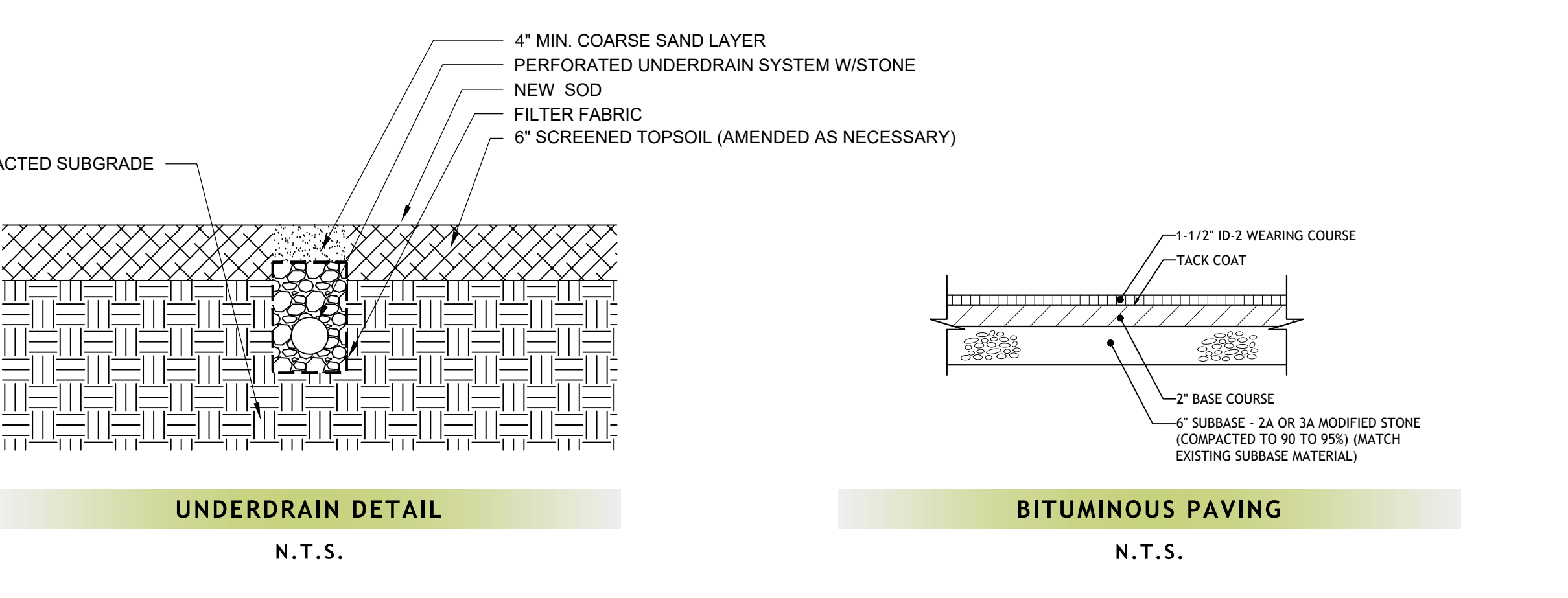
**SEDIMENT FILTER BAG SCHEMATIC DETAIL**



**CONSTRUCTION SAFETY CHAIN LINK FENCE**



**SILT SOCK DETAIL (OPEN MOUTH INLET)**



**TEMPORARY STOCKPILE**

Table with 3 columns: ISSUE, DATE, REVISIONS. No data rows.

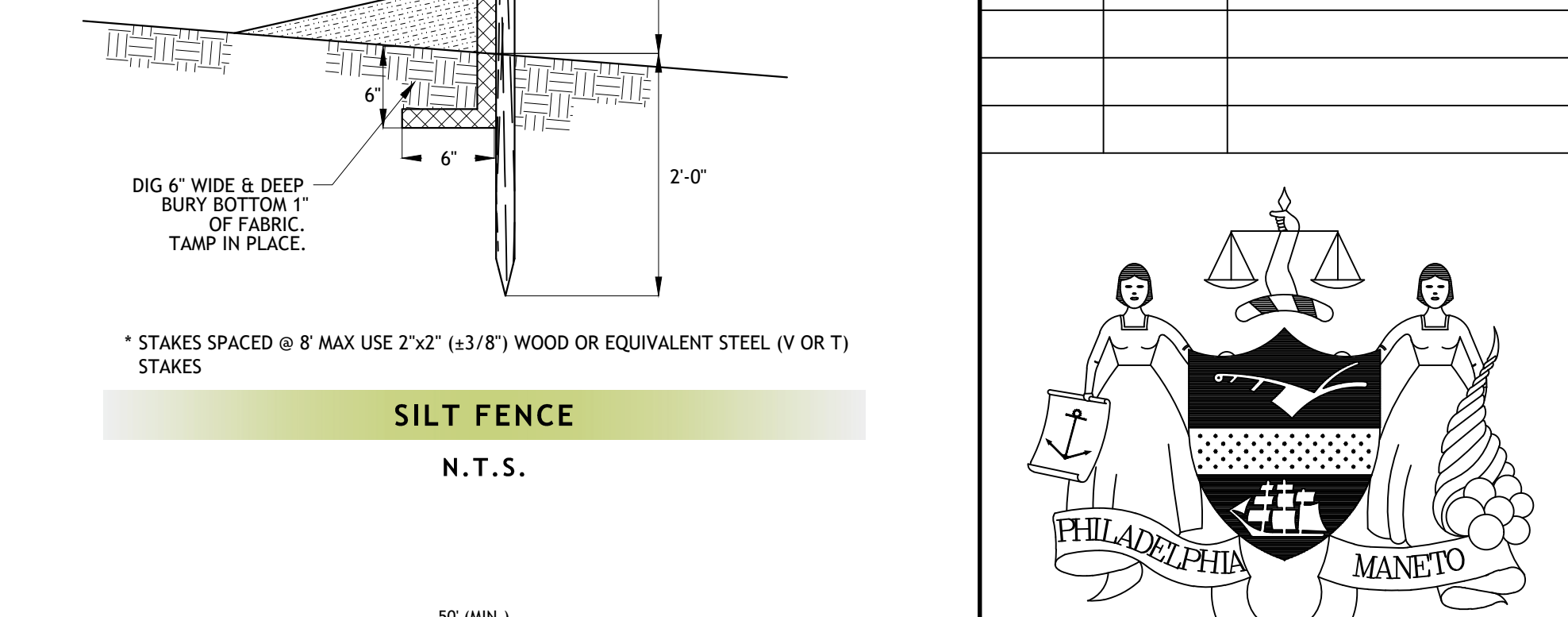


Table with 2 columns: ZONING DISTRICT, SP-PO-A. Other fields include DEPT. OF STREETS SURVEY DISTRICT NUMBER (7), DEPT. OF STREETS HIGHWAY DISTRICT NUMBER (1), PWD SEWER DISTRICT NUMBER (39), and PWD SEWER OUTFALL NUMBER(S) (S-50).

Table with 2 columns: PENNSYLVANIA ONE CALL SYSTEM, INC. and 20152581699. Other fields include DEPT PROJECT COORDINATOR (JAMEKA SMITH) and LAND ACORN SEAL.

Table with 2 columns: CIVIL ENGINEER, RODRIGUEZ CONSULTING, LLC. Other fields include PROJECT TITLE (IMPROVEMENTS TO PARKSIDE-EVANS RECREATION CENTER) and DRAWING TITLE (SITE DETAILS).

Table with 2 columns: PROJECT TITLE, IMPROVEMENTS TO PARKSIDE-EVANS RECREATION CENTER. Other fields include CONSULTANT PROJECT NO (16-14-4216-99), DATE (01-17-2018), SCALE (AS NOTED), DRAWN BY (J. GALLAGHER), and CHECKED BY (S. POINDEXTER).

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