

CITY OF TALLMADGE, OHIO - DEMOLITION BID FOR 89 E HOWE ROAD

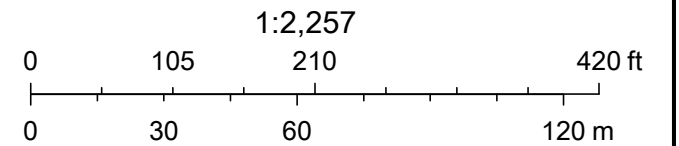


5/30/2023, 7:47:56 AM

- Parcels
- Inlet protection
- Road Labels
- Silt Fence
- Pavement to Remain

Notes:

Site buildings and pavement to be removed and demolished at the direction of the City of Tallmadge. Site is to be returned to existing grades around buildings and reseeded as directed.



County of Summit, Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, EPA

BURGESS & NIPLE
Engineers ■ Architects ■ Planners

| | |
|--------------------------------------------------------------|------------------------------|
| STORMWATER POLLUTION PREVENTION PLAN - SITE MAP | DRAWN / CHECKED / DATE |
| CITY OF TALLMADGE, OHIO DEMOLITION BID FOR 89 E HOWE ROAD | MSL / SCALE: AS NOTED / DATE |
| REVISIONS | DATE |
| 1 | 5 |

SWP3 GENERAL NOTES

INTRODUCTION

THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR 89 E. HOWE ROAD, TALLMADGE IS IN SUMMIT COUNTY OHIO, AND IS INTENDED TO SATISFY THE REQUIREMENTS OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) UNDER NPDES PERMIT NO. OHC000006 FOR CONSTRUCTION ACTIVITY UNDER THE PHASE II PORTION OF THE FEDERAL CLEAN WATER ACT.

OWNER: CITY OF TALLMADGE
46 NORTH AVENUE
TALLMADGE, OH 44278
330-633-0090

ENGINEER: BURGESS & NIPL INC.
164 SOUTH MAIN ST
AKRON, OH 44308
330-376-5778

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE DEMOLITION OF THE EXISTING BUILDING ON SITE AS WELL AS THE REMOVAL OF MOST OF THE PAVED AREAS. AFTER DEMOLITION, THE SITE WILL USE CLEAN FILL AND WILL BE GRADED TO UNIFORM LINES AND GRADES ESTABLISHED BY THE CITY BEFORE SEEDING. A PORTION OF THE EXISTING DRIVE ON THE NORTH AND EAST SIDE OF THE SITE WILL REMAIN. THE SOILS CONSIST OF WuB (WOOSTER SILT/LOAM), HYDROLOGICAL SOIL GROUP C, CdB (CANFIELD SILT/LOAM), HYDROLOGICAL SOIL GROUP C/D, AND WuC2 (WOOSTER SILT/LOAM), HYDROLOGICAL SOIL GROUP C.

TOTAL SITE AREA: 11.58 AC

PRE-CONSTRUCTION IMPERVIOUS AREA: 6.16 AC

POST-CONSTRUCTION IMPERVIOUS AREA: 1.01 AC

PRE-CONSTRUCTION CURVE NUMBER (CN): 90

POST-CONSTRUCTION RUNOFF CURVE NUMBER (CN): 76

CONSTRUCTION SEQUENCE

NOTE: INSPECTION AND MAINTENANCE / REPAIR OF ALL EROSION AND SEDIMENT CONTROL DEVICES ARE TO BE PERFORMED DURING THE PROJECT ACCORDING TO THIS SWP3 PLAN.

SELECT AND MARK OFF AREAS OF TREES, SHRUBS, AND VEGETATION TO BE SAVED WITH BARRIER FENCE AND PERFORM CLEARING OPERATIONS.

INSTALL PERIMETER EROSION AND SEDIMENT CONTROL PRACTICES, WITHIN 7 DAYS OF GRUBBING ACTIVITIES AND PRIOR TO GRADING OF THE AREA THEY WILL CONTROL.

CONSTRUCT DIVERSION DITCHES, WATER BARS, AND TEMPORARY SILT BASINS AS NECESSARY.

ROUGH GRADE SITE.

ESTABLISH TEMPORARY SEEDING ON ALL BARE AREAS, INCLUDING STOCKPILES, AND MULCH WITH STRAW.

CONSTRUCT ROADWAY IMPROVEMENTS, INSTALL STORM SEWERS AND APPURTENANT ITEMS AND REMAINING UTILITIES.

PROTECT STORM SEWER INLETS WITH FILTER FABRIC DEVICES UPON CONSTRUCTION.

INSTALL ASPHALT AND CONCRETE PAVEMENT AREAS, WALKS AND CURBS AS REQUIRED.

FINAL GRADE ALL AREAS OUTSIDE OF PAVEMENT.

IMMEDIATELY STABILIZE GRADED AND BARE AREAS WITH PERMANENT SEEDING AND MULCH.

WATER BOTH TEMPORARY AND PERMANENT SEEDED AREAS AS NEEDED UNTIL SEEDING HAS GERMINATED AND BECOMES ESTABLISHED.

CLEAN OUT DEBRIS IN ALL STORM CATCH BASINS AFTER PERMANENT SEEDING IS ESTABLISHED.

REMOVE TEMPORARY SEDIMENT CONTROLS AFTER FINAL LAWN IS ESTABLISHED.

SOIL EROSION AND SEDIMENT NOTES

STEEP SLOPES SHALL BE PROTECTED. UNSTABLE SOILS PRONE TO SLIPPING OR SLOUGHING SHALL NOT BE CLEARED, GRADED, EXCAVATED, FILLED OR HAVE LOADS IMPOSED UPON THEM UNLESS THE WORK IS PLANNED BY A QUALIFIED PROFESSIONAL ENGINEER AND INSTALLED IN ACCORDANCE WITH THE EROSION & SEDIMENT CONTROL (E&SC) AND WATER QUALITY (WQ) PLAN. CUT AND FILL SLOPES SHALL BE DESIGNED TO MINIMIZE EROSION PROBLEMS.

OUTFALLS AND DRAINAGE WAYS THAT HAVE BEEN CONSTRUCTED OR MODIFIED SHALL BE DESIGNED AND CONSTRUCTED TO WITHSTAND EXPECTED FLOW VELOCITIES AND VOLUMES FROM A POST-DEVELOPMENT, 10-YEAR RETURN-FREQUENCY STORM EVENT WITHOUT ERODING.

WATER QUALITY

THE SITE IS BEING RESTORED TO OPEN SPACE WITH MINIMAL IMPERVIOUS SURFACE REMAINING.

EROSION AND SEDIMENTATION CONTROL INSPECTION AND MAINTENANCE PRACTICES

THE FOLLOWING INSPECTION AND MAINTENANCE PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENTATION CONTROLS:

BUILT UP SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT HAS REACHED ONE-THIRD OF THE HEIGHT OF THE FENCE.

THE SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE THAT THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.

DIVERSION DIKES WILL BE INSPECTED AND ANY BREACHES WILL BE PROMPTLY REPAIRED.

TEMPORARY AND PERMANENT SEEDING AND PLANTINGS WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS AND HEALTHY GROWTH.

REGULAR INSPECTION AND MAINTENANCE WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES. INSPECTIONS ARE TO BE PERFORMED UNTIL THE NOTICE OF TERMINATION (NOT) IS FILED. PERMANENT RECORDS OF MAINTENANCE AND INSPECTION MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD AND FOR TWO YEARS AFTER THE NOTICE OF TERMINATION (NOT) IS FILED WITH OEPA. INSPECTIONS MUST BE MADE A MINIMUM OF AT LEAST ONCE EVERY SEVEN (7) DAYS AND IMMEDIATELY AFTER STORM EVENTS OF ONE HALF (0.5) INCHES OF RAIN IN A TWENTY-FOUR (24) HOUR PERIOD. THE INSPECTION REPORT SHALL CONTAIN THE FOLLOWING MINIMUM INFORMATION: NAME OF INSPECTOR, MAJOR OBSERVANCES, DATE OF INSPECTION AND CORRECTIVE MEASURES TAKEN.

A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE FORM IS TO BE COMPLETED BY THE PERSON DOING THE INSPECTION. A COPY OF THE INSPECTION FORM IS ATTACHED IN C-32A.

THE CONTRACTOR'S PROJECT SUPERINTENDENT WILL SELECT INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

CONTRACTOR'S ACKNOWLEDGEMENT

THE UNDERSIGNED CONTRACTORS HEREBY ACKNOWLEDGE THAT THEY HAVE REVIEWED AND UNDERSTAND THE CONDITIONS AND THE RESPONSIBILITIES OF THE STORMWATER POLLUTION PREVENTION PLAN (SWP3) AS STATED ON THE "STORMWATER GENERAL NOTES" SHEET AND ON THIS SHEET OF THE PLANS. THE UNDERSIGNED CONTRACTORS ALSO UNDERSTAND THAT A SEPARATE NOTICE OF INTENT (NOI) SHALL BE SUBMITTED TO OHIO EPA TO OBTAIN A STORMWATER PERMIT FOR ANY OFFSITE BORROW AND SPOIL AREAS.

ALL CONTRACTORS AND SUBCONTRACTORS MUST FILE A "CO-PERMITTEE NOTICE OF INTENT FOR COVERAGE UNDER OHIO EPA STORM WATER CONSTRUCTION GENERAL PERMIT."

CONTRACTOR / SUBCONTRACTOR PRINT NAME COMPANY

CONTRACTOR / SUBCONTRACTOR PRINT NAME COMPANY

CONTRACTOR / SUBCONTRACTOR PRINT NAME COMPANY

Concrete Washout Areas

Installation:

- Concrete wash water shall not be allowed to flow to streams, ditches, storm drains, or any other water conveyance and washout pits shall be situated a minimum of fifty (50) feet from them.
- Field tile or other subsurface drainage structures within 10 ft. of the sump shall be cut and plugged.
- Ensure a stable path is provided for concrete trucks to reach the washout area.
- A highly visible sign that reads "Concrete Washout Area" shall be erected adjacent to the washout pit.
- Surface runoff generated from upslope areas shall be diverted away from below-grade washout pits so as not to flow into them.
- A single centralized washout area may be utilized for multiple sublots.

Maintenance:

- The washout pit must be inspected frequently to ensure the liner is intact.
- Once 75% of the original volume of the washout pit is filled or if the liner is torn, the material must be removed and properly disposed of once it is completely hardened. Once the hardened concrete is removed, the liner must be replaced (if torn). A new pit must be constructed if the original structure is no longer suitable.

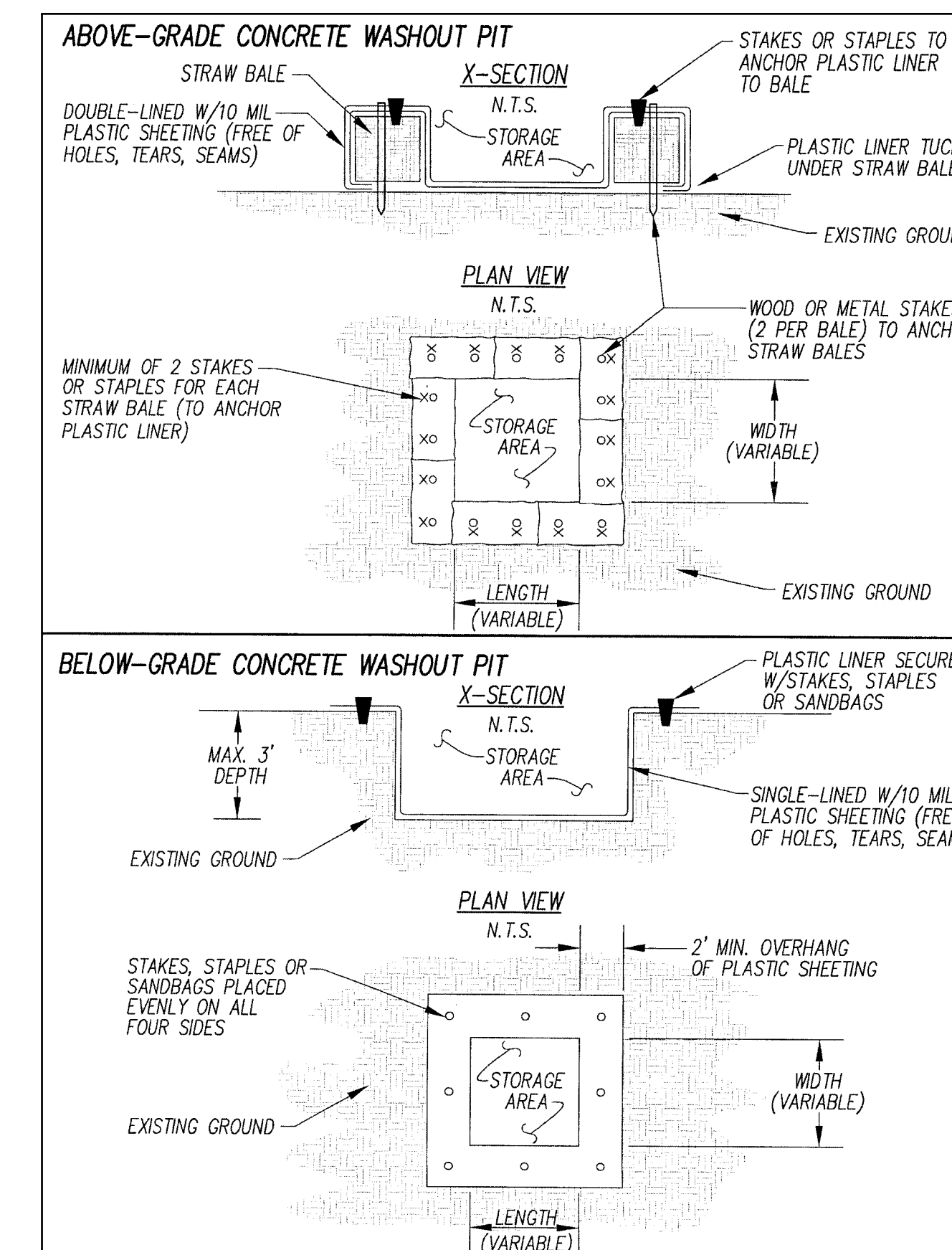
Removal:

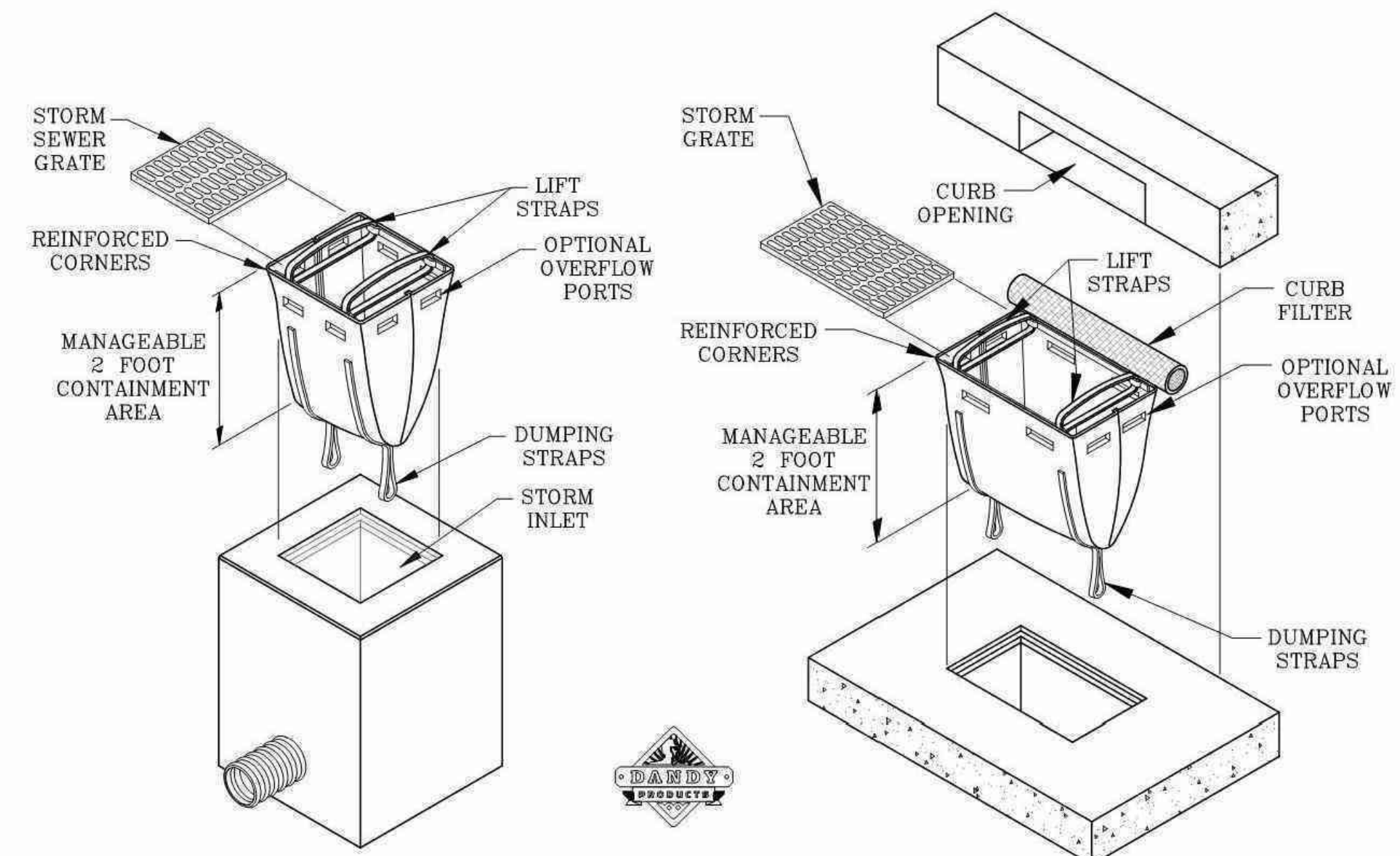
- Once the washout pit is no longer needed, ensure all washout material has completely hardened, then remove and properly dispose of all materials. If straw bales were used, they can be spread as mulch.
- Prefabricated containers specifically designed for concrete washout collection may be used subject to prior approval by the Community Engineer. Follow the manufacturer's suggestions for installation, maintenance and removal procedures.

Sizing of Concrete Washout Pits

| Below-grade (3-ft depth) | | | Above-grade (2-ft depth) | | |
|---------------------------------------------------------|------------|-------------|---------------------------------------------------------|------------|-------------|
| # of concrete trucks expected to be washed out on site* | Width (ft) | Length (ft) | # of concrete trucks expected to be washed out on site* | Width (ft) | Length (ft) |
| 2-3 | 3 | 3 | 2 | 3 | 3 |
| 4-5 | 4 | 4 | 3-4 | 4 | 4 |
| 6-7 | 5 | 5 | 5-6 | 5 | 5 |
| 8-10 | 6 | 6 | 7-8 | 6 | 6 |
| 11-14 | 7 | 7 | 9-11 | 7 | 7 |
| | | | 12-15 | 8 | 8 |

*For small projects using a maximum of only one truckload of concrete or utilizing on-site mixing, rinsing of equipment may take place on the lot without a pit, provided it can be done a minimum of fifty (50) feet away from any water conveyances.





DANDY SACK™ & DANDY CURB SACK™ INLET SEDIMENT PROTECTION
 NOT TO SCALE
IN PAVEMENT AREAS

Storm Water Pollution Prevention Plan (SWPPP) Modification Form

Modifications to the Storm Water Pollution Prevention Plan (SWPPP)
 This form is to be completed for any additions, deletions, or modifications to the SWPPP with the exception of those items classified as being insignificant. For insignificant changes, the SWPPP plan shall be relined, dated, and initialed by the Engineer. All other changes shall be documented using this form. This form will serve as the record, as required by the General Permit, for such changes. This form shall become part of and accompany the SWPPP. The SWPPP plan sheets shall be relined or updated plan sheets showing the changes shall be attached to this document.

The following items are classified as insignificant changes:

1. Tracking station realignment and/or relocation based on site conditions and actual field use.
2. Straw bale barrier realignment and/or relocation to better fit the actual contours on site.
3. Silt fence relocation to improve performance based on site conditions.
4. Interchangeable approved inlet protection BMPs.
5. Relocation of stockpile location and/or material storage areas.
6. Removal of inlet protection during approved winter time periods if alternate sediment control measures are employed.
7. Temporary removal of minor sediment barriers that may conflict with certain phases of construction activities.
8. Extension of the one month use of surface roughening as an erosion control measure.
9. Relocation of concrete washout area.
10. Modifications of construction schedules may be made so long as the appropriate BMP's are in place.

| BMP Type (see table below) | Approximate Station | | Left or Right of Centerline | Description |
|-------------------------------|---------------------|----|--------------------------------|-------------|
| | From | To | | |
| | | | | |
| | | | | |

| Table of BMP Types | | | | | | | |
|----------------------|-------------------------|----|--------------------------|----|----------------------|----|-------------|
| Add others as needed | | | | | | | |
| 1 | Temporary Seeding | 8 | Rock Check Dam | 15 | Concrete Washout | 22 | Wattles |
| 2 | Permanent Sod or Seed | 9 | Diversion Dike | 16 | Silt Ditch | 23 | Slope Drain |
| 3 | Mulch | 10 | Diversion Swale | 17 | Slope Diversion Dike | 24 | |
| 4 | Sediment Basin | 11 | Inlet Protection | 18 | Filter Strips | 25 | |
| 5 | Erosion Control Blanket | 12 | Vehicle Tracking Station | 19 | Sediment Trap | 26 | |
| 6 | Silt Fence | 13 | Surface Roughening | 20 | Channel Diversion | 27 | |
| 7 | Rip Rap | 14 | WIMCO Unit | 21 | Outlet Protection | 28 | |

Modification to the Storm Water Pollution Prevention Plan (SWPPP) Acknowledgement

The Engineer hereby directs the Contractor to incorporate these modifications into the SWPPP.

Print Name _____ Representing _____ Signature _____ Date _____

The Contractor has been verbally notified of these modifications. _____
 Date & Time _____

Original to SWPPP
 Copy to Principal Construction Engineer, Contractor, and Project Manager

SWPPP MODIFICATION FORM
 NOT TO SCALE

CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL INSPECTION FORM

Site Name: _____ Inspector: _____ Date: _____ Time: _____

Site Contact: _____ Weather: _____

| Construction Phase: | | Site Observations: | |
|-----------------------------|----------------------------------|--------------------|----------------------------------|
| Not Started | Final Grading | Y N | Offsite tracking |
| Clearing/Grubbing | Final Stabilization | Y N | Signs of erosion |
| Rough Grading | Conversion to Water Quality Pond | Y N | Sediment discharge offsite |
| Roads/Sanitary/SW/Infrastr. | Other _____ | Y N | Non-sediment pollutant discharge |
| Building Construction | | Y N | Stream/wetland impact |

Items that need addressed or show deficiencies:

| | |
|-------------------------------------|--------------------------------|
| Construction Entrance | Tree/Wetland/Stream Protection |
| Silt Fence/sheet flow control | Diversion |
| Sediment Basin/Trap | Rock Check Dams |
| Inlet Protection | Stream/Utility Crossing |
| Stabilization/Seed/Mulch | Soil Stabilization Blanket |
| Plan Limits of Disturbance Exceeded | Other _____ |

NOTES: _____

Site Drawing: _____

SWPPP SITE INSPECTION FORM
 NOT TO SCALE

| | | |
|--------------------------------------------------------------|-----------|-----------------|
| DATE | CHECKED | DATE |
| DRAWN | MSL | SCALE: AS NOTED |
| DATE | REVISIONS | DATE |
| STORMWATER POLLUTION PREVENTION PLAN - DETAILS | | |
| CITY OF TALLMADGE, OHIO DEMOLITION BID FOR 89 E HOWE ROAD | | |
| 3 | 5 | |

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

EROSION CONTROL SHALL CONSIST OF TEMPORARY CONTROL MEASURES AS DETAILED ON THE PLANS OR ORDERED BY THE GOVERNING AGENCY DURING THE LIFE OF THE CONTRACT TO CONTROL SOIL EROSION AND SEDIMENTATION THROUGH USE OF EROSION CONTROL BEST MANAGEMENT PRACTICES (BMP'S).

TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS, THE LOCATION AND SIZE OF WHICH ARE DETAILED ON THE PLANS, SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORK OPERATIONS. CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT WERE NOT FORSEEN DURING DESIGN STAGE; THAT REQUIRE ADDITIONAL OR MODIFIED TEMPORARY OR PERMANENT BMP'S SHALL BE APPROVED BY THE DESIGN ENGINEER AND REFLECTED ON THE REVISED SWP3.

SEDIMENT PONDS, SEDIMENT TRAPS, AND PERIMETER SEDIMENT CONTROLS, SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL DISTURBED AREAS ARE RE-ESTABLISHED WITH TEMPORARY VEGETATION. NO SEDIMENT CONTROLS SHALL BE PLACED IN A STREAM.

TRENCH DEWATERING OR GROUND WATER, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATER SHALL NOT BE DISCHARGED TO STREAMS OR THE STORM SEWER SYSTEM.

THE SWP3, NOTES AND DETAILED DRAWINGS ARE INTENDED TO SERVE AS BASIC GUIDELINES. ALL EROSION CONTROL PRACTICES SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE ODNR RAINWATER AND LAND DEVELOPMENT MANUAL.

ADDITIONAL EROSION CONTROL BMP'S MAY BE MANDATED BY THE GOVERNING AGENCY AT ANY TIME DURING THIS PROJECT AS UNFORSEEN SITUATIONS MAY ARISE THAT WARRANT FURTHER EROSION AND SEDIMENT CONTROL PRACTICES.

CLEARING AND GRUBBING

LIMITS OF CLEARING AND GRADING SHALL BE CLEARLY MARKED ON THE SITE WITH SIGNAGE, FLAGGING AND/OR CONSTRUCTION FENCING.

THE CONTRACTOR SHALL LIMIT THE SURFACE AREA OF ERODABLE EARTH MATERIAL EXPOSED BY EXCAVATION, BORROW, AND FILL OPERATIONS AND PROVIDE IMMEDIATE PERMANENT OR TEMPORARY CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT STREAMS OR OTHER WATER COURSES, LAKES, PONDS, WETLANDS OR OTHER AREAS OF WATER IMPOUNDMENT.

CONSTRUCTION ENTRANCE

A STONED CONSTRUCTION ENTRANCE SHALL BE INSTALLED FOR ALL INGRESS & EGRESS TO THE SITE. THE MINIMUM DIMENSIONS OF THE DRIVE SHALL BE 20 FT. WIDE AND 50 FT. LONG. THE STONE SHALL BE 6 INCHES DEEP WITH AN UNDERLAIN GEOTEXTILE FABRIC. THE DRIVE SHALL BE INSTALLED PRIOR TO ANY CLEARING AND GRUBBING. SEDIMENTS SHALL BE REMOVED FROM ROADWAYS DAILY OR AS DIRECTED BY THE OWNER.

STABILIZATION

PERMANENT AND TEMPORARY STABILIZATION ARE DEFINED IN PART VII OF THE OEPA AUTHORIZATION FOR FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
OHIO EPA PERMIT NO. OHC000006 EFFECTIVE DATE 4/23/2023 - EXPIRATION DATE 4/22/2028.
DISTURBED AREAS MUST BE STABILIZED AS SPECIFIED IN THE FOLLOWING TABLES BELOW:

TABLE 1: PERMANENT STABILIZATION

| AREA REQUIRING PERMANENT STABILIZATION | TIME FRAME TO APPLY EROSION CONTROL |
|-------------------------------------------------------|------------------------------------------------------------|
| ANY AREA THAT WILL LIE DORMANT FOR ONE YEAR OR MORE | WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE |
| ANY AREA WITHIN 50 FT. OF A STREAM AND AT FINAL GRADE | WITHIN TWO DAYS OF REACHING FINAL GRADE |
| ANY OTHER AREAS AT FINAL GRADE | WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA |

TEMPORARY SEEDING

SEEDING AREAS SHALL BE INSPECTED AND WHERE THE SEED HAS NOT PRODUCED 80% COVER SHALL BE RESEDED AS NECESSARY BY THE CONTRACTOR. AREAS SHALL BE STABILIZED WITH STRAW MULCH WHEN CONDITIONS PROHIBIT SEEDING.

STRAW MULCHING SHALL BE APPLIED AT A RATE 2-3 STANDARD 45 LB. BALES PER 1000 SQ.FT. OF DISTURBED AREA OR 2 TONS PER ACRE. ALL HYDROSEEDING MUST BE STRAW MULCHED ACCORDING TO THE ABOVE SPECIFICATIONS UNLESS IT IS WATERED WEEKLY.

ALL DETENTION PONDS, RETENTION PONDS, WATER QUALITY STRUCTURES, SEDIMENT PONDS, SEDIMENT TRAPS, EARTHEN DIVERSIONS OR EMBANKMENTS SHALL BE SEEDED AND STRAW MULCHED WITHIN 7 DAYS OF COMPLETED CONSTRUCTION.

TABLE 2: TEMPORARY STABILIZATION

| AREA REQUIRING TEMPORARY STABILIZATION | TIME FRAME TO APPLY EROSION CONTROL |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| ANY DISTURBED AREAS WITHIN 50 FT. OF A STREAM AND NOT AT FINAL GRADE | WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS |
| FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FT. OF STREAM | WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA |
| | FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S) |
| DISTURBED AREAS THAT WILL BE IDLE OVER WINTER | PRIOR TO ONSET OF WINTER WEATHER (NOV.1) STRAW MULCH 2 TO 3 BALES PER 1000 SQ.FT. AND OR 2 TONS PER ACRE |

PERMANENT STABILIZATION OF CONVEYANCE CHANNELS

OPERATORS SHALL UNDERTAKE SPECIAL MEASURES TO STABILIZE CHANNELS AND OUTFALLS AND PREVENT EROSION FLOWS. MEASURES MAY INCLUDE SEEDING, DORMANT SEEDING (AS DEFINED IN THE LATEST EDITION OF ODNR RAINWATER AND LAND DEVELOPMENT MANUAL), MULCHING, EROSION CONTROL MATTING, SODDING, RIPRAP NATURAL CHANNEL DESIGN WITH BIO ENGINEERING TECHNIQUES OR ROCK CHECK DAMS.

TIMING

SEDIMENT CONTROL STRUCTURES SHALL BE FUNCTIONAL THROUGHOUT THE COURSE OF EARTH DISTURBING ACTIVITY. SEDIMENT BASINS AND PERIMETER SEDIMENT BARRIERS SHALL BE IMPLEMENTED PRIOR TO GRADING AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE SLOPE DEVELOPMENT AREA IS PERMANENTLY RESTABILIZED. AS CONSTRUCTION PROGRESSES AND THE TOPOGRAPHY IS ALTERED, APPROPRIATE CONTROLS MUST BE CONSTRUCTED TO ADDRESS THE CHANGING DRAINAGE PATTERNS.

SILT FENCE & DIVERSIONS

SHEET FLOW RUNOFF FROM DENUDED AREAS SHALL BE INTERCEPTED BY SILT FENCE OR DIVERSIONS TO PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM SEDIMENT TRANSPORTED VIA SHEET FLOW. WHERE INTENDED TO PROVIDE SEDIMENT CONTROL, SILT FENCES SHALL BE PLACED ON A LEVEL CONTOUR. THE EPA PERMIT NO. OHC000005 DOES NOT PRECLUDE THE USE OF OTHER SEDIMENT BARRIERS DESIGNED TO CONTROL SHEET FLOW RUNOFF. SILT FENCE IS NOT PERMITTED TO BE USED FOR CONTROLLING CONCENTRATED SURFACEWATER FLOW (ONLY SHEET FLOW).

STORMWATER DIVERSION PRACTICES SHALL BE USED TO KEEP RUNOFF AWAY FROM DISTURBED AREAS AND STEEP SLOPES WHERE PRACTICAL. SUCH DEVICES, WHICH INCLUDE SWALES, DIKES OR BERMS, MAY RECEIVE FROM AREAS UP TO 10 ACRES.

INLET PROTECTION

OTHER EROSION AND SEDIMENT CONTROL PRACTICES SHALL MINIMIZE SEDIMENT LADEN WATER ENTERING ACTIVE STORM DRAIN SYSTEMS, UNLESS THE STORM DRAIN SYSTEM DRAINS TO A SEDIMENT POND. INLET PROTECTION IS MANDATORY WHERE SEDIMENT SETTLING PONDS WILL NOT BE IMPLEMENTED.

NON-SEDIMENT POLLUTANTS CONTROLS

NO SOLID (OTHER THAN SEDIMENT) OR LIQUID WASTE, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED IN STORMWATER RUNOFF. ALL NECESSARY BMP'S MUST BE IMPLEMENTED TO PREVENT THE DISCHARGE OF NON-SEDIMENT POLLUTANTS TO THE DRAINAGE SYSTEM OF THE SITE OR SURFACE WATERS OF THE STATE. UNDER NO CIRCUMSTANCE SHALL CONCRETE TRUCKS WASH OUT DIRECTLY INTO A DRAINAGE CHANNEL, STORM SEWER OR SURFACE WATERS OF THE STATE. NO EXPOSURE OF STORMWATER TO WASTE MATERIALS IS RECOMMENDED.

OFF-SITE TRAFFIC

OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND DUST GENERATION SHALL BE MINIMIZED.

TRENCH AND GROUND WATER CONTROL

THERE SHALL BE NO TURBID DISCHARGES TO SURFACE WATERS OF THE STATE RESULTING FROM DEWATERING ACTIVITIES. IF TRENCH OR GROUND WATERS CONTAIN SEDIMENT, IT MUST PASS THROUGH A SEDIMENT SETTLING POND OR OTHER EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE, PRIOR TO BEING DISCHARGED FROM THE CONSTRUCTION SITE. ALTERNATIVELY, SEDIMENT MAY BE REMOVED BY SETTLING IN PLACE OR DEWATERING INTO INTO A SUMP PIT, FILTER BAG OR COMPARABLE PRACTICE. GROUND WATER DEWATERING WHICH DOES NOT CONTAIN SEDIMENT OR OTHER POLLUTANTS ARE NOT REQUIRED TO BE TREATED PRIOR TO DISCHARGE, HOWEVER, CARE MUST BE TAKEN WHEN DISCHARGING GROUND WATER TO ENSURE THAT IT DOES NOT BECOME POLLUTANT-LADEN BY TRAVERSING OVER DISTURBED SOILS OR OTHER POLLUTANT SOURCES.

MAINTENANCE

ALL TEMPORARY AND PERMANENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED IN A FUNCTIONAL CONDITION UNTIL ALL UP SLOPE AREAS THEY CONTROL ARE PERMANENTLY STABILIZED. THE CONTRACTOR SHALL COMPLY WITH THE MAINTENANCE SCHEDULE INCLUDED IN THE APPROVED PLANS FOR THE PROPOSED EROSION CONTROLS. A WRITTEN DOCUMENT CONTAINING THE SIGNATURES OF ALL CONTRACTORS AND SUB-CONTRACTORS INVOLVED IN THE IMPLEMENTATION OF THE BMP'S MUST BE MAINTAINED AS PROOF ACKNOWLEDGING THAT THEY REVIEWED AND UNDERSTAND THE CONDITIONS AND RESPONSIBILITIES OF THE SWP3.

INSPECTION

ALL STORMWATER CONTROLS ON THE SITE ARE INSPECTED AT LEAST ONCE EVERY SEVEN CALANDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN ONE-HALF INCH OF RAIN PER 24 HOUR PERIOD. A WRITTEN RECORD DOCUMENTATING THE RESULTS OF THESE INSPECTIONS MUST BE CREATED AND MAINTAINED WITH THE SWP3. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE SWP3 SHALL BE OBSERVED TO ENSURE THAT THOSE ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE VEHICLE TRACKING.

I. WHEN PRACTICES REQUIRE REPAIR OR MAINTENANCE

IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE, WITH EXCEPTION OF A SEDIMENT SETTLING POND, IT MUST BE REPAIRED OR MAINTAINED WITHIN THREE DAYS OF INSPECTION. SEDIMENT SETTLING PONDS MUST BE REPAIRED OR MAINTAINED WITHIN 10 DAYS OF THE INSPECTION.

II. WHEN PRACTICES FAIL TO PROVIDE THEIR INTENDED FUNCTION.

IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE FAILS TO PERFORM ITS INTENDED FUNCTION AND THAT ANOTHER, MORE APPROPRIATE CONTROL PRACTICE IS REQUIRED, THE SWP3, MUST BE AMENDED AND THE NEW CONTROL PRACTICE MUST BE INSTALLED WITHIN 10 DAYS OF INSPECTION.

III. WHEN PRACTICES DEPICTED ON THE SWP3 ARE NOT INSTALLED.

IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE HAS NOT BEEN IMPLEMENTED IN ACCORDANCE WITH THE SWP3. THE SWP3 MUST BE AMENDED AND THE NEW CONTROL PRACTICE MUST BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION. IF THE INSPECTION REVEALS THAT THE PLANNED CONTROL PRACTICE IS NOT NEEDED, THE RECORD MUST CONTAIN A STATEMENT OF EXPLANATION AS TO WHY THE CONTROL PRACTICE IS NOT NEEDED.

WASTE DISPOSAL

CONTAINERS (e.g., DUMPSTERS, DRUMS) SHALL BE AVAILABLE FOR DISPOSAL OF DEBRIS, TRASH, HAZARDOUS OR PETROLEUM WASTES. ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THE PERTINENT MATERIAL.

CLEAN HARD FILL

BRICKS, HARDENING CONCRETE, AND SOIL WASTE SHALL BE FREE FROM CONTAMINATION WHICH MAY LEACH CONSTITUENTS TO WATERS OF THE STATE.

CLEAN CONSTRUCTION WASTES THAT WILL BE DISPOSED INTO THE PROPERTY, SHALL BE SUBJECT TO ANY LOCAL PROHIBITIONS FROM THIS TYPE OF DISPOSAL.

CONSTRUCTION & DEMOLITION DEBRIS

ALL CONSTRUCTION & DEMOLITION DEBRIS (C&DD) WASTE SHALL BE DISPOSED OF IN AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY OHIO REVISED CODE (ORC) 3714. CONSTRUCTION DEBRIS MAY BE DISPOSED OF ON-SITE, BUT DEMOLITION DEBRIS MUST BE DISPOSED IN AN OHIO EPA APPROVED LANDFILL. ALSO, MATERIALS WHICH CONTAIN ASBESTOS MUST COMPLY WITH AIR POLLUTION REGULATIONS (SEE OHIO ADMINISTRATIVE CODE (OAC) 3745-20).

CONSTRUCTION CHEMICAL COMPOUNDS

AREA SHALL BE DESIGNATED FOR MIXING OR STORAGE OF COMPOUNDS SUCH AS FERTILIZERS, LIME ASPHALT, OR CONCRETE. THESE DESIGNATED AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR OTHER STORMWATER DRAINAGE AREA.

EQUIPMENT FUELING & MAINTENANCE

EQUIPMENT FUELING & MAINTENANCE SHALL BE IN DESIGNATED AREAS ONLY.

SPILL PREVENTION CONTROL AND COUNTERMEASURES

A SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN MUST BE DEVELOPED FOR SITES WITH ONE ABOVE-GROUND STORAGE TANK OF 660 GALLONS OR MORE, TOTAL ABOVE-GROUND STORAGE OF 1,330 GALLONS, OR BELOW-GROUND STORAGE OF 4,200 GALLONS OF FUEL.

CONCRETE WASH WATER

ALL DESIGNATED CONCRETE WASHOUT AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR OTHER STORMWATER DRAINAGE AREAS.

CONTAMINATED SOILS

ALL CONTAMINATED SOIL INCLUDING SOILS CONTAMINATED BY PETROLEUM AND OTHER CHEMICALS MUST BE TREATED AND/OR DISPOSED IN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITIES OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITIES (TSDf's).

- I. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND CLEANUP MEASURES WILL ALSO BE INCLUDED.
- II. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE PERSONNEL WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

SPILL REPORTING REQUIREMENTS

THE CONTRACTOR SHALL CONTACT THE OHIO EPA AT 800-282-9378, THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE (330-643-2522) IN THE EVENT OF A PETROLEUM SPILL (>25 GALLONS) OR THE PRESENCE OF SHEEN. ON PROJECTS NORTH OF ROUTE 2 THE COAST GUARD MUST BE NOTIFIED.

OPEN BURNING

OPEN BURNING IS NOT PERMITTED.

DUST CONTROLS/SUPPRESSANTS

USED OIL MAY NOT BE USED AS A DUST SUPPRESSANT. NO DUST SUPPRESSANT SHALL BE APPLIED NEAR CATCH BASINS, STORM SEWERS OR OTHER DRAINAGE WAYS.

STREAM CROSSINGS

STREAM CROSSINGS SHALL BE CONSTRUCTED ENTIRELY OF STONE, ROCK, OR CLEAN RECYCLED CONCRETE. SOIL OR EARTHEN MATERIAL MAY NOT BE USED. A 20 FT. STONE APRON ON EITHER SIDE OF THE STREAM SHALL BE CONSTRUCTED TO PREVENT LOCALIZED SEDIMENTATION. ALL DISTURBED AREAS OF THE BANK WITHIN 50 FT. OF THE STREAM SHALL BE STABILIZED WITH SEED AND STRAW MULCH WITHIN 2 DAYS OF THE DISTURBANCE.

PERMITS

THIS SITE IS COVERED UNDER OHIO EPA CONSTRUCTION GENERAL PERMIT NO. OHC000006 ISSUED ON 4/23/2023.

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECIEVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FUEL STORAGE TANKS

SHALL BE LOCATED AWAY FROM SURFACE WATERS AND STORM SEWER SYSTEMS INLETS. FUEL TANKS SHALL BE STORED IN A DIKED AREA CAPABLE OF HOLDING 150% THE TANK CAPACITY.

SPILL CONTROL PRACTICES

IN ADDITION TO GOOD HOUSE KEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR THE SPILL PREVENTION AND CLEANUP:

- I. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF INFORMATION AND CLEANUP SUPPLIES.
- II. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE

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| STORMWATER POLLUTION PREVENTION PLAN - GENERAL NOTES AND DETAILS | | | | | | |
| CITY OF TALLMADGE, OHIO DEMOLITION BID FOR 89 E HOWE ROAD | | | | | | |
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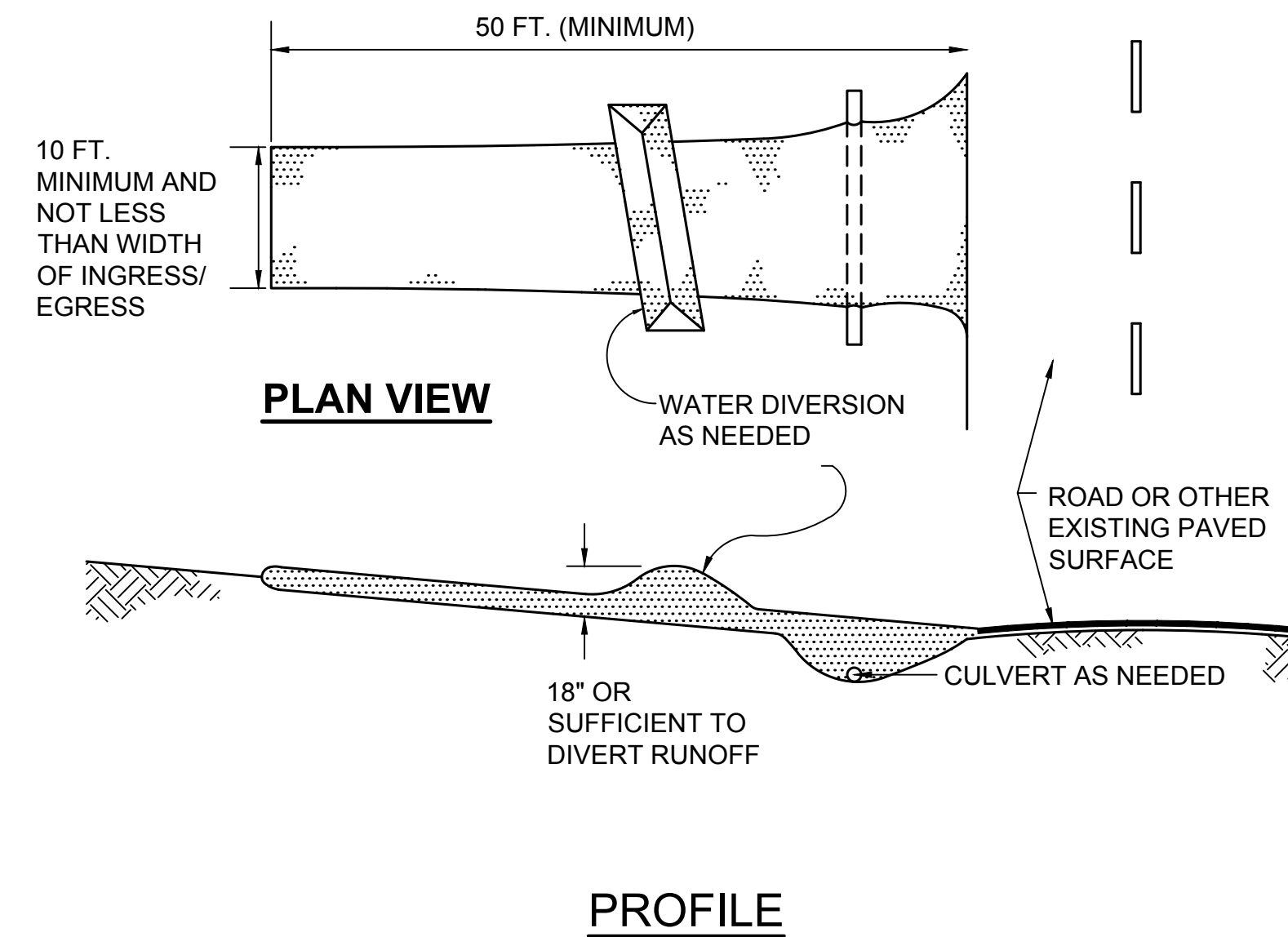
MITIGATIVE MEASURES - EROSION/SEDIMENT CONTROL

- SITE CLEARING AND GRUBBING SHALL NOT COMMENCE UNTIL SUCH TIME THAT THE CONTRACTOR IS PREPARED TO START CONSTRUCTION. REMOVE ONLY THOSE TREES, SHRUBS, AND GRASSES THAT MUST BE REMOVED FOR CONSTRUCTION OF ACTUAL FACILITIES; PROTECT THE REST TO PRESERVE THEIR AESTHETIC, HABITAT, AND EROSION CONTROL VALUES.
- IMMEDIATELY FOLLOWING SITE AND ACCESS CLEARING, TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED. THEY WILL BE MAINTAINED IN EFFECTIVE OPERATING CONDITION DURING CONSTRUCTION UNTIL FINAL SEEDING AND SITE RESTORATION OCCURS.
- AT THE CONSTRUCTION SITE, INSTALL SEDIMENT BASINS AND DIVERSION DIKES BEFORE DISTURBING THE LAND THAT DRAINS INTO THEM.
- DIVERSION CHANNELS WILL BE CONSTRUCTED AROUND THE CONSTRUCTION SITE TO COLLECT RUNOFF AND PREVENT SILT AND OTHER ERODIBLE MATERIALS FROM ENTERING LOCAL DRAINAGE COURSES. DIVERSION CHANNELS WILL FLOW TO TEMPORARY SEDIMENT BASINS, AND ARE TO BE STABILIZED THROUGH SEEDING, RIP-RAPPING, OR LINING THEM WITH PLASTIC.
- EXISTING TOPSOIL WILL BE STOCKPILED AND REPLACED UPON FINAL GRADING OF THE CONSTRUCTION SITE.
- EXTENSIVE AREAS OF STOCKPILED TOPSOIL AT THE CONSTRUCTION SITE ARE TO BE PROTECTED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING OR COVERING SUCH AS WITH ANCHORED STRAW MULCH. SILT BARRIERS WILL BE INSTALLED DOWN GRADIENT OF THESE AREAS ON CONTOUR AND WITH THEIR ENDS UP SLOPE OF THE CONTOUR TO PREVENT SILT LADEN RUNOFF FROM ENTERING WATERWAYS OR STORM SEWERS. WITHIN 15 DAYS OF COMPLETION OF CONSTRUCTION, ANY REMAINING SOIL MUST EITHER BE REMOVED OR PERMANENTLY STABILIZED.
- SILT FENCES SHOULD BE TRENCHED SIX TO TWELVE INCHES DEEP, THE FABRIC LAID IN THE TRENCH, AND THE SOIL PROPERLY BACKFILLED INTO THE TRENCH TO PREVENT UNDERCUTTING.
- WHERE TRENCH EXCAVATION OCCURS PARALLEL TO ANY WATERWAY, A VEGETATED BARRIER SHOULD BE MAINTAINED BETWEEN THE STREAM AND THE CONSTRUCTION SITE. ALL TRENCH SPOILS WILL BE STOCKPILED ON THE SIDE OF THE TRENCH AWAY FROM THE WATERWAY, AND A LINE OF SILT BARRIERS WILL BE ESTABLISHED ALONG THE EDGE OF CONSTRUCTION ON THE CONTOUR BETWEEN THE TRENCH AND THE WATERWAY.
- LAYING OF PIPE IN TRENCHES SHOULD OCCUR SO AS TO MINIMIZE THE AMOUNT OF DISTURBED AREA. ALL TRENCHES ARE TO BE BACKFILLED AND COMPACTED IMMEDIATELY AFTER PIPE INSTALLATION. IMMEDIATELY FOLLOWING THE BACKFILLING OF THE TRENCH, THE GROUND SURFACE WILL BE ROUGH GRADED TO THE EXISTING CONTOURS TO ALLOW FOR PROPER DRAINAGE, AND WILL BE SEEDING AND/OR MULCHED IN STAGES TO PREVENT EROSION.
- ANY DISTURBED AREA THAT WILL NOT BE ACTIVELY UNDER CONSTRUCTION FOR A PERIOD OF 15 DAYS OR MORE WILL BE TEMPORARILY STABILIZED IMMEDIATELY BY SEEDING AND MULCHING OR BY ANCHORED STRAW MULCH.
- AS CONSTRUCTION IS COMPLETED, PERMANENTLY STABILIZE EACH DISTURBED AREA IN STAGES WITH PERENNIAL VEGETATION INSTALLED ACCORDING TO NATURAL RESOURCES CONSERVATION SERVICE (OR EQUIVALENT) STANDARDS AND SPECIFICATIONS. AFTER FINAL SOIL SETTLING OVER THE SANITARY SEWER, OUTFALL SEWER, AND FORCE MAIN ALIGNMENTS, THE CONTRACTOR SHALL BRING THE TRENCH BACK TO GRADE IF NECESSARY, PLACE TOPSOIL, AND FINE GRADE, SEED, FERTILIZE, AND MULCH ALL AREAS DISTURBED BY ACTIVITIES ASSOCIATED WITH THE CONSTRUCTION OF THAT SECTION OF PIPE. FINAL GRADING WILL BE CONSISTENT WITH PRE-CONSTRUCTION TOPOGRAPHY FOR DRAINAGE AND AESTHETIC REASONS.
- SLOPES EXCEEDING 15 PERCENT OR THAT TEND TO BE UNSTABLE REQUIRE SPECIAL TREATMENT SUCH AS WATER DIVERSION BERMS, SODDING, OR THE USE OF JUTE OR EXCELSIOR BLANKETS.
- WHEN BORROW MATERIAL IS OBTAINED FROM OTHER THAN COMMERCIAL OPERATED SOURCES, EROSION OF THE BORROW SITE WILL BE SO CONTROLLED BOTH DURING AND AFTER COMPLETION OF THE WORK THAT EROSION WILL BE MINIMIZED AND SEDIMENT WILL NOT ENTER STREAMS OR OTHER BODIES OF WATER. WASTE OR DISPOSAL AREAS AND CONSTRUCTION ROADS SHALL BE LOCATED AND CONSTRUCTED IN A MANNER THAT WILL KEEP SEDIMENT FROM ENTERING STREAMS. TEMPORARY EROSION CONTROL BARRIERS AND LIMITED SITE CLEARING WILL BE USED AS NEEDED.
- IF WORK IS SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL MAINTAIN THE SOIL EROSION AND SEDIMENTATION CONTROLS IN GOOD OPERATING CONDITION DURING THE SUSPENSION OF THE WORK. ALSO, WHEN SEASONAL CONDITIONS PERMIT AND THE SUSPENSION OF WORK IS EXPECTED TO EXCEED A PERIOD OF ONE MONTH, THE CONTRACTOR SHALL SEED, FERTILIZE, AND MULCH ALL DISTURBED AREAS LEFT EXPOSED WHEN THE WORK IS STOPPED.
- INSTALL THE ABOVE EROSION AND SEDIMENT CONTROL MEASURES, AS APPROPRIATE, REFERRING TO NATURAL RESOURCES CONSERVATION SERVICE OR EQUIVALENT STANDARDS AND SPECIFICATION FOR PARTICULAR TECHNIQUES. THESE MEASURES ARE TO BE MAINTAINED IN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
- ARCHAEOLOGICAL/HISTORICAL RESOURCES. CONTRACTORS AND SUBCONTRACTORS ARE REQUIRED UNDER OHIO REVISED CODE SECTION 149.53 TO NOTIFY THE OHIO HISTORICAL SOCIETY AND THE OHIO HISTORIC SITE PRESERVATION BOARD OF ARCHAEOLOGICAL DISCOVERIES LOCATED IN THE PROJECT AREA, AND TO COOPERATE WITH THOSE ENTITIES IN ARCHAEOLOGICAL AND HISTORIC SURVEYS AND SALVAGE EFFORTS IF SUCH DISCOVERIES ARE UNCOVERED WITHIN THE PROJECT AREA.

CONTACT: OHIO HISTORIC PRESERVATION OFFICE
PHONE: 1 (614) 298-2000

SEDIMENT TRAP NOTES

- WORK SHALL CONSIST OF THE INSTALLATION, MAINTENANCE AND REMOVAL OF ALL SEDIMENT TRAPS AT THE LOCATIONS DESIGNATED ON THE DRAWINGS.
- SEDIMENT TRAPS SHALL BE CONSTRUCTED TO THE DIMENSIONS SPECIFIED ON THE DRAWINGS AND DIMENSION SCHEDULE AND OPERATIONAL PRIOR TO UPSLOPE LAND DISTURBANCE.
- THE AREA BENEATH THE EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF VEGETATION TO A MINIMUM DEPTH OF SIX (6) INCHES. THE POOL SHALL BE CLEARED AS NEEDED TO FACILITATE SEDIMENT CLEANOUT.
- FILL USED FOR THE EMBANKMENT SHALL BE EVALUATED TO ASSURE ITS SUITABILITY AND IT MUST BE FREE OF ROOTS OR OTHER WOODY VEGETATION, LARGE ROCKS, ORGANICS OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL SHALL BE PLACED IN SIX (6) INCH LIFTS AND SHALL BE COMPACTED BY TRAVERSING WITH A SHEEPSFOOT OR OTHER APPROVED COMPACTION EQUIPMENT. FILL HEIGHT SHALL BE INCREASED FIVE (5) PERCENT TO ALLOW FOR STRUCTURE/FOUNDATION SETTLEMENT. CONSTRUCTION SHALL NOT BE PERMITTED IF EITHER THE EARTHFILL OR COMPACTION SURFACE IS FROZEN.
- THE MAXIMUM HEIGHT OF EMBANKMENT SHALL BE FIVE (5) FEET. ALL CUT AND FILL SLOPES SHALL BE 2:1 (H:V) OR FLATTER.
- A MINIMUM STORAGE VOLUME BELOW THE CREST OF THE OUTLET OF 67 CY FOR EVERY ACRE OF CONTRIBUTING DRAINAGE AREA SHALL BE ACHIEVED AT EACH LOCATION NOTED ON THE DRAWINGS WITH ADDITIONAL SEDIMENT STORAGE VOLUME PROVIDED BELOW THIS ELEVATION.
- TEMPORARY SEEDING SHALL BE ESTABLISHED AND MAINTAINED OVER THE USEFUL LIFE OF THE PRACTICE.
- THE OUTLET FOR THE SEDIMENT TRAP STRUCTURE SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN ON THE DRAWINGS AND PER THE SEDIMENT TRAP DIMENSION SCHEDULE.
- THE OUTLET SHALL BE CONSTRUCTED USING THE MATERIALS SPECIFIED PER THE SEDIMENT TRAP DETAIL. WHERE GEOTEXTILE IS USED, ALL OVERLAPS SHALL BE MADE WITH THE UPPER MOST LAYER PLACED LAST. GEOTEXTILE SHALL BE KEYED IN AT LEAST 6" ON THE UPSLOPE SIDE OF THE OUTLET.
- WARNING SIGNS AND SAFETY FENCE SHALL BE PLACED AROUND THE TRAPS AND MAINTAINED OVER THE LIFE OF THE PRACTICE.
- AFTER ALL SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, THE STRUCTURE AND ALL ASSOCIATED SEDIMENT SHALL BE REMOVED. STABLE EARTH MATERIALS SHALL BE PLACED IN THE SEDIMENT TRAP AREA AND COMPACTED. THE AREA SHALL BE GRADED TO BLEND IN WITH ADJOINING LAND SURFACES AND HAVE POSITIVE DRAINAGE. THE AREA SHALL BE IMMEDIATELY SEEDING.

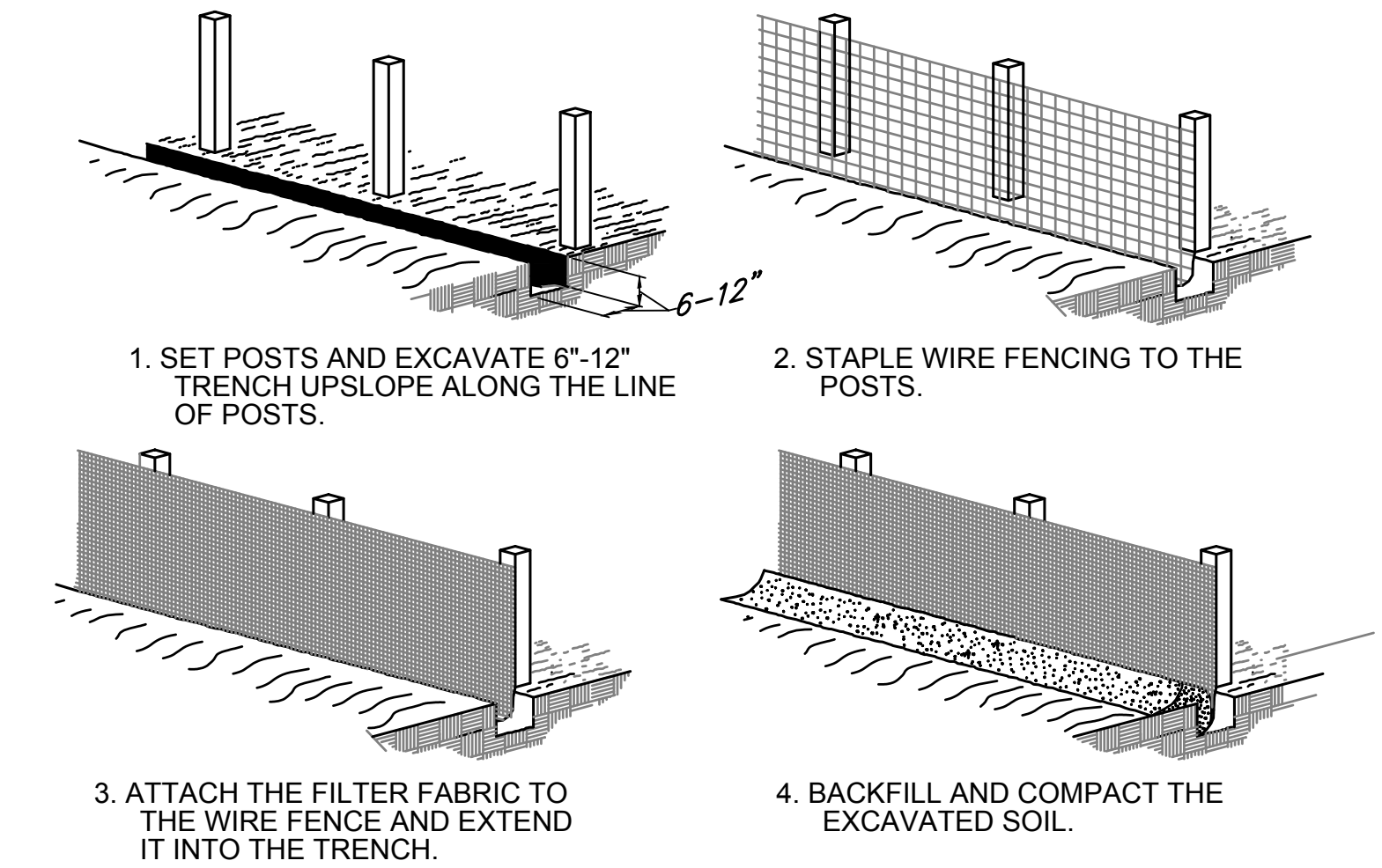


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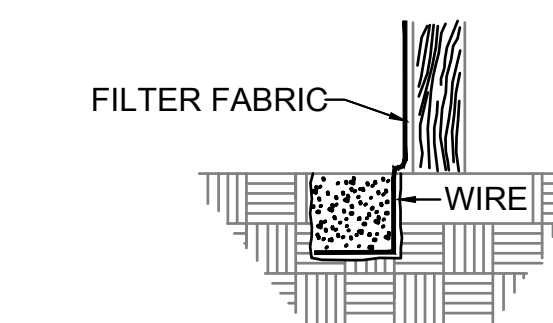
- STONE SIZE -- 2-INCH STONE SHALL BE USED, RECYCLED CONCRETE WILL NOT BE PERMITTED.
- LENGTH -- THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 50-FT.
- THICKNESS -- THE STONE LAYER SHALL BE AT LEAST 6-INCHES THICK.
- WIDTH -- THE ENTRANCE SHALL BE AT LEAST 10-FT. WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- BEDDING -- A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL HAVE A TENSILE STRENGTH OF AT LEAST 200 LB. AND MULLEN BURST STRENGTH OF AT LEAST 190 LB.
- CULVERT -- A PIPE OF CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- WATER BAR -- A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- MAINTENANCE -- TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING.

CONSTRUCTION ENTRANCE DETAIL AND NOTES

SCALE: NONE

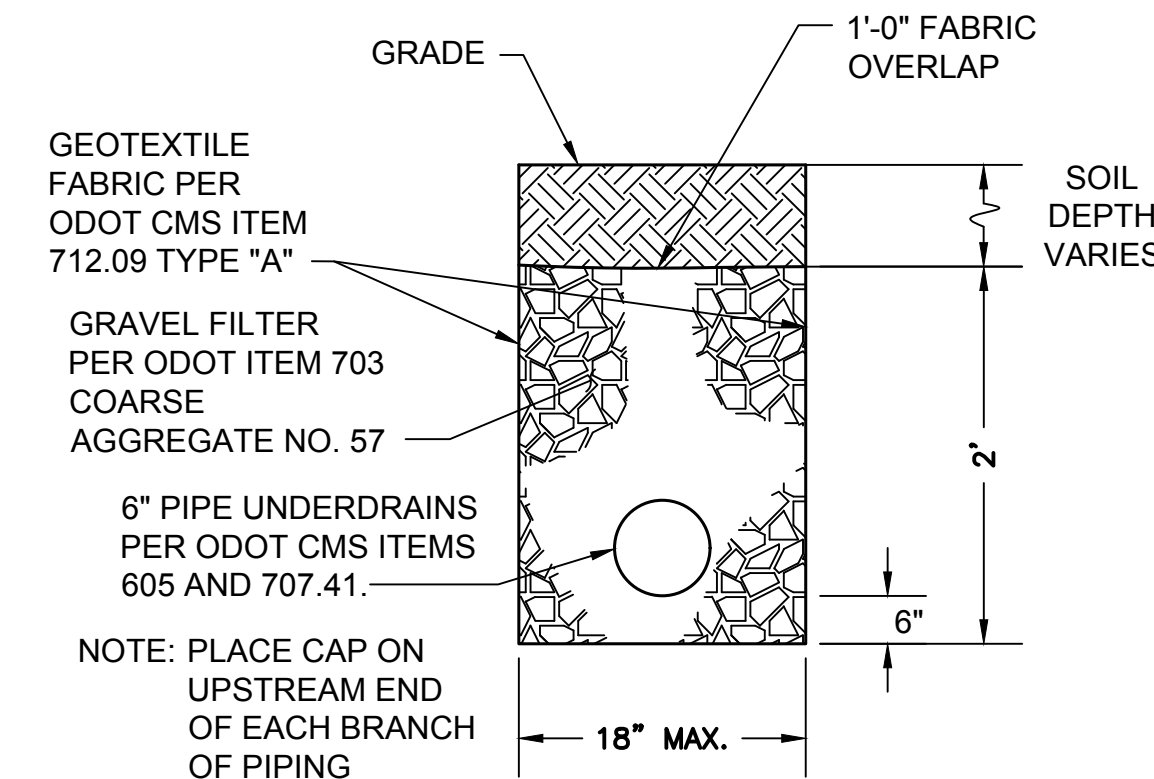


EXTENSION OF FABRIC AND WIRE INTO THE TRENCH



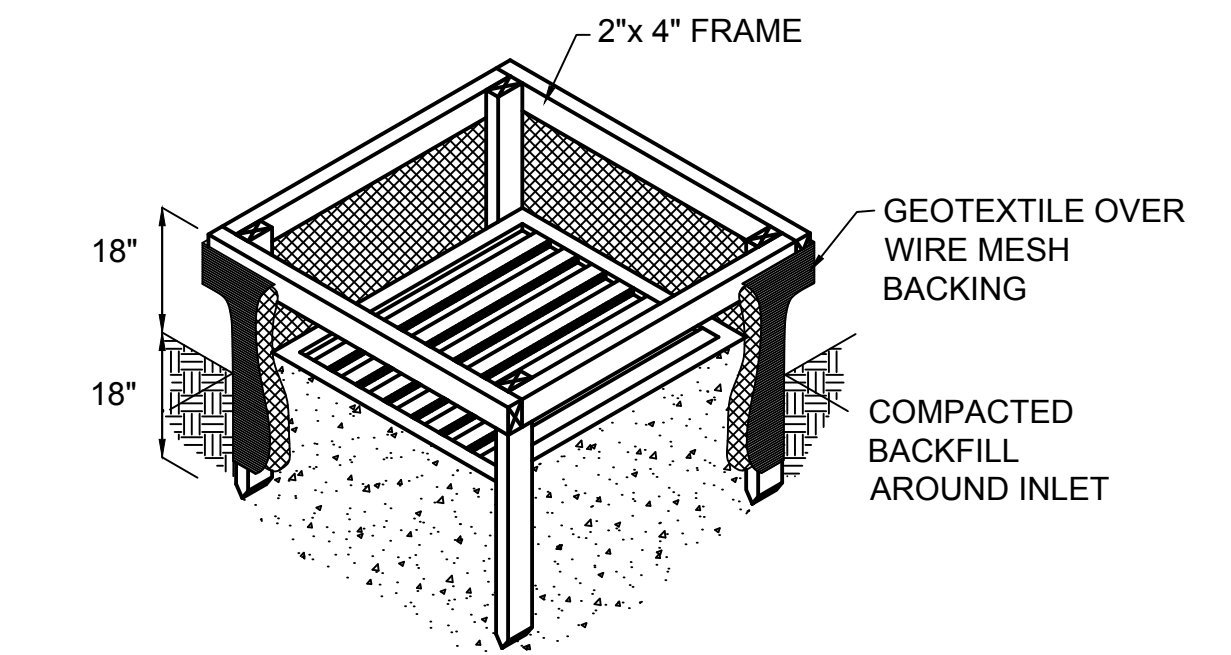
TYPICAL FILTER FABRIC FENCE

SCALE: NONE



DRAIN PIPE TRENCH DETAIL

SCALE: NONE



TYPICAL STORM INLET PROTECTION WITH FILTER FABRIC OUTSIDE PAVEMENT

SCALE: NONE

STORM INLET PROTECTION NOTES

- INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERATIONAL.
- THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH OF AT LEAST 18-INCHES.
- THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2x4-IN. CONSTRUCTION-GRADE LUMBER. THE 2x4-IN. POSTS SHALL BE DRIVEN 1-FT. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2x4-IN. FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6-IN. BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
- WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
- GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18-IN. BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
- BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6-INCH LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
- A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6-INCHES HIGHER THAN THE TOP OF THE FRAME.

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