CO-PERMITEE (GONTRACTOR)

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 PERMANENT BEST MANAGEMENT

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.

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 REQUIRE ADDITIONAL OR MODIFIED TEMPORARY OR PERMANENT BMP'S SHALL BE APPROVED BY THE DESIGN ENGINEER AND REFLECTED ON THE REVISED STORM WATER POLLUTION PREVENTION PLAN (SWP3).

SEDIMENT BASINS, 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 BASIN 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, DETAILED DRAWINGS AND ANY ADDENDUMS ARE INTENDED TO SERVE AS BASIC GUIDELINES. ALL EROSION CONTROL PRACTICES SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR) RAINWATER AND LAND DEVELOPMENT MANUAL AND THE NOPES STORM WATER DISCHARGE PERMIT.

ALL CAST IRON CATCH BASINS, GRATES AND INLET COVERS SHALL HAVE THE MESSAGE "DUMP NO WASTE, DRAINS TO WATERWAYS".

# STORMWATER QUALITY MAINTENANCE NOTES

ALL TEMPORARY AND PERMANENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS ALL IEMPOKARY 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 INSPECTION AND MAINTENANCE SCHEDULE INCLUDED WITH 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 BMPS MUST BE MAINTAINED AS PROOF ACKNOWLEDGING THAT THEY REVIEWED AND UNDERSTAND THE CONDITIONS AND RESPONSIBILITIES OF THE SWP3.

PROPERTY OWNER SHALL BE RESPONSIBLE FOR OVERSEEING MAINTENANCE OF ALL EROSION CONTROL AND WATER QUALITY PRACTICES, OWNER SHALL MAINTAIN PROPER OPERATION, IF PROPERTY SHOULD TRANSFER OWNER NEW OWNER WILL ASSUME RESPONSIBILITY FOR ALL INSPECTIONS, ANY REQUIRED MAINTENANCE AND/OR REPAIRS.

SEE "OEPA CONSTRUCTION SITE INSPECTION CHECKLIST" FOR INSPECTIONS OCCURRING DURING THE CONSTRUCTION PROCESS. SEE "OPERATION AND MAINTENANCE INSPECTION REPORT FOR STORMWATER MANAGEMENT PONDS' FOR INSPECTIONS OCCURRING AFTER SITE STABILIZATION. INSEPCTION REPORTS CAN BE OBTAINED BY CONTACTING THE DESIGN ENGINEER.

INSPECTIONS AND REQUIRED MAINTENANCE OCCURRING DURING THE CONSTRUCTION PROCESS ARE THE RESPONSIBILITY OF THE SITE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ATTRIBUTED TO REPAIRS DURING CONSTRUCTION ACTIVITIES.

INSPECTIONS AND REQUIRED MAINTENANCE OCCURRING AFTER THE SITE IS STABILIZED ARE THE RESPONSIBILITY OF THE OWNER OR A QUALIFIED AGENT OF THE OWNER. THE OWNER SHALL BE RESPONSIBLE FOR ANY COSTS ATTRIBUTED TO REPAIRS AFTER SITE STABILIZATION.

SEE "OPERATION AND MAINTENANCE INSPECTION REPORT FOR STORMWATER MANAGEMENT PONDS" FOR TIMING ON INSPECTION FREQUENCY. NOTE THAT ADDITIONAL INSPECTIONS MAY BE REQUIRED IN THE FIRST YEAR TO ENSURE PROPER OPERATION OF STORM WATER MANAGEMENT FACILITIES.

PERPETUAL MAINTENANCE INSPECTION REPORTS ARE TO BE SUBMITTED TO THE COMMUNITY BY MAY 1ST OF EACH AND EVERY YEAR AFTER THE BEST MANAGEMENT PRACTICE (BMP) HAS BEEN

INSPECTION (DURING CONSTRUCTION)
ALL STORMWATER CONTROLS ON THE SITE ARE INSPECTED AT LEAST ONCE EVERY SEVEN CALANDAR DAYS AND 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 WITHIN RECORD DOCUMENTATING THE RESULTS OF THESE INSPECTIONS MUST BE CREATED AND MAINTAINED WITH SWP3. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THE SWP3. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED TO ENSURE THAT THOSE ARE OPERATING CONTROL MEASURES IDENTIFIED IN THE SWP3 SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND 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. 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.
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. NON SEDIMENT SITE POLLUTION CONTROLS

NO SOLID 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, NO EXPOSURE OF STORMWATER TO WASTE MATERIALS IS RECOMMENDED.

WASTE DISPOSAL.
CONTAINERS (E.G., DUMPSTERS, DRUMS) SHALL BE AVAILABLE FOR DISPOSAL OF DEBRIS, TRASH,
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 A 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 SHALL BE IN DESIGNATED AREAS ONLY.

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

ALL CONTAMINATED SOIL MUST BE TREATED AND/OR DISPOSED IN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITIES OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITIES

SPILL PREVENTION CONTROL & COUNTERMEASURES A SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN MUST BE DEVELOPED FOR SITES WITH ONE ABOVE—GROUND STORAGE TANK OF 860 GALLONS OR MORE, TOTAL ABOVE—GROUND STORAGE OF 1,330 GALLONS, OR BELOW—GROUND STORAGE OF 4,200 GALLONS OF FUEL.

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

DUST CONTROLS/SUPRESSANTS 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.

AIR PERMITTING REQUIREMENTS
CERTAIN ACTIVITIES ASSOCIATED WITH CONSTRUCTION WILL REQUIRE AIR PERMITS. ACTIVITIES
INCLUDING BUT NOT LIMITED TO MOBILE CONCRETE BATCH PLANTS, MOBILE ASPHALT PLANTS,
CONCRETE CRUSHERS, LARGE GENERATORS, ETC, WILL REQUIRE SPECIFIC OHIO EPA AIR PERMITS FOR

PROCESS WASTE WATER/LEACHATE MANAGEMENT DISCHARGES INCLUDING BUT NOT LIMITED TO VEHICLE/AND OR EQUIPMENT WASHING, LEACHATE ASSOCIATED WITH OM-SITE WASTE DISPOSAL, CONCRETE WASHOUTS, ETC. ARE A PROCESS WASTEWATER AND ARE NOT AUTHORIZED FOR DISCHARGE UNDER OHCOODOO2. ALL PROCESS WASTE WATER MUST BE COLLECTED AND PROPERLY DISPOSED OF AT AN APPROVED DISPOSAL FACILITY.

SOIL STABILIZATION CONTROLS

CLEARING & GRUBBING LIMITS OF CLEARING AND GRADING SHALL BE CLEARLY MARKED ON THE SITE WITH SIGNAGE, FLAGGING

AND/OR CONSTRUCTION FENCING. T 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.

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 12 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.

PERMANENT AND TEMPORARY STABILIZATION ARE DEFINED IN PART VII OF THE OEPA AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM OHIO EPA PERMIT NO. OHODOOOZ EFFECTIVE DATE 4/21/03 - EXPIRATION DATE 4/20/08 DISTURBED AREAS MUST BE STABILIZED AS SPECIFIED IN THE FOLLÓWING TABLES BELOW:

TEMPORARY SEEDING
SEEDING AREAS SHALL BE INSPECTED AND WHERE THE SEED HAS NOT PRODUCED BO% COVER SHALL
BE RESEEDED AS NECESSARY BY THE CONTRACTOR. AREAS SHALL BE STABILIZED WITH MULCH WHEN

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 AGRE. 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 MULCHED WITHIN 7 DAYS OF COMPLETED CONSTRUCTION.

AREA REQUIRING TEMPORARY STABILIZATION	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 21 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 TON

PER ACRE. TEMPORARY SEEDING SPECIFICATIONS

SEEDING DATES	SPECIES	LB. / 1000SQFT   PER AC		
MARCH 1 TO AUGUST 15	OATS TALL FESCUE JANNUAL RYEGRASS	<b>1</b>	4 BUSHEL 40 LB. 40 LB.	
	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1	40 LB. 40 LB. 40 LB.	
AUGUST 16 TO NOVEMBER 1	RYE TALL FESCUE ANNUAL RYEGRASS		2 BUSHEL 40 LB. 40 LB.	
	WHEAT TALL FESCUE ANNUAL RYEGRASS	1	40 LB. 40 LB. 40 LB.	
	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1	40 LB. 40 LB. 40 LB.	

PERMANENT STABILIZATION

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

PERMANENT SEEDING SPECIFICATIONS LB./AC. LB. / 1000SQFT GENERAL USE STEEP BANKS OR CUT SLOPES DO NOT SEED LATER THAN DO NOT SEED LATER THAN ROAD DITCHES AND SWALES

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

FOR SHADED AREAS.

#### TEMPORARY SEDIMENT CONTROLS

IE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTÉD

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. OHCODOOO2 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).

THE SIZE OF THE DRAINAGE AREA THAT CAN BE TREATED BY SILT FENCE VARIES WITH TOPOGRAPHY. THE FOLLOWING TABLE IS TO BE USED TO DETERMINE THE MAXIMIUM UPSTREAM DISTANCE THAT IS ALLOWABLE TO BE TREATED BY THE SILT FENCE IN ODRER TO FUNCTION PROPERLY:

***	Williaskerry to he tribuths or tree and .	a destant in the control of the cont
b		1.00
	SLOPE	SLOPE LENGTH (FT)
. `	0-2% FLATTER THAN 50:1	250
	2-10% 50:1-10:1	125
	10%-20%	100
*	20%-33% 5:1-3:1	
•	337-50% 3:1-2:1	<u></u>
		75

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.

### TEMPORARY RUN-OFF CONTROLS

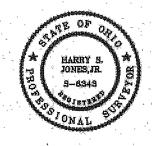
DIVERSION SWALES
STORMWATER DIVERSION PRACTICES SHALL BE USED TO KEEP RUNOFF AWAY FROM DISTURBED AREAS AND STEEP SLOPES WHERE PRACTICAL. DIVERSIONS SHOULD BE USED IN LOCATIONS WHERE THE DRAINAGE AREA EXCEEDS THE CAPACITY OF THE SILT FENCE. IN SUCH CASES, THE RUNOFF SHOULD BE DIVERTED INTO A SEDIMENT BASIN OR SEDIMENT TRAP. DIVERSION SWALES, DIKES OR BERMS, MAY RECEIVE FROM AREAS UP TO 10 ACRES.

### CONSTRUCTION SEQUENCE NARATIVE

- O. PROVIDE SAFE AND SECURE PEDESTRIAN AND VEHICULAR TRAFFIC CIRCULATION THROUGHOUT THE ENTIRETY OF THE CONSTRUCTION SEQUENCE WITH WELL DEFINED CONSTRUCTION BOUNDARIES TO BE ACCESSED BY CONSTRUCTION PERSONNEL ONLY. ALL EROSION CONTROLS ARE TO BE THOROUGHLY INSPECTED BY THE CONTRACTOR UPON THE COMPLETION OF EACH WORK DAY AND MAINTAINED THROUGHOUT THE REQUIRED LIFE OF THE CONTROL AS SPECIFIED BY THE APPROVED SWP3 PLANS AND NARRATIVE. CONTRACTOR MUST REVIEW THE SWP3 AND NARRATIVE.
- CONTRACTOR SHALL COMPLETE AND SUBMIT THE OEPA CO-PERMITEE NOTICE OF INTENT (N.O.I.)
  APPLICATION. ALL OPERATORS AT THE CONSTRUCTION SITE ARE REQUIRED TO BECOME
  CO-PERMITTEES. INSTRUCTIONS AND FROMS CAN BE OBTAINED AT THE OEPA WEBSITE: http://www.epa.state.oh.us/dsw/storm/stormform.html
- 2. INSTALL STONE CONSTRUCTION ENTRANCE FOR ACCESS TO CONSTRUCTION AREAS OF SITE.
- DELIVER CONSTRUCTION TRAILER TO SITE AND ESTABLISH TEMPORARY POWER AND TELEBHONE
- 4. ALL TEMPORARY UTILITY SERVICES SHALL BE THE RESPOSIBILITY OF THE CONTRACTOR.
- 5. STAKEOUT LIMITS OF DISTURBANCE AND INSTALL GRANGE CONSTRUCTION FENCE TO CLEARLY DEMOSTRATE THE BOUNDARY OF THE RIPARIAN SETBACKS AS REQUIRED..
- 6. INSTALL TEMPORARY INLET PROTECTION ON ALL EXISTING CATCH BASINS. INLET PROTECTION
- SHALL BE INSTALLED AS PER PLAN DESIGNATION. 7. INSTALL ALL FILTER FABRIC FENCE WHERE SHOWN ON PLANS. FILTER FABRIC FENCE SHALL BE
- INSTALLED AS PER PLAN DESIGNATION. B. BEGIN CLEARING AND GRUBBING IN THE SEDIMENT BASIN AND TEMPORARY DIVERSION SWALE
- 9. REMOVE TOPSOIL FROM AREAS AS NECESSARY. REMOVE FROM SITE PER OHIO ENVIRONMENTAL PROTECTION AGENCY (OHIO EPA) STANDARDS OR TEMPORARILY STOCKPILE

## CONSTRUCTION SEQUENCE NARRATIVE -CONTINUED-

- 10. BEGIN EARTHWORK OPERATIONS WITHIN THE BASIN LIMITS. THE TEMPORARY SEDIMENT TRAP OUTLET STRUCTURE AND RELATING OUTLET PIPE AND EMERGENCY OVERFLOW SPILLWAY INCLUDING ALL OUTLET PROTECTION SHALL BE INSTALLED ONCE GRADES ARE ESTABLISHED. TEMPORARY BASIN SHALL BE INSTALLED WITHIN SEVEN DAYS FROM THE START OF GRUBBING AND PRIOR TO SITE GRADING.
- 11. INSTALL TEMPORARY DIVERSION SWALES, DIRECTING RUN-OFF TO THE SEDIMENT BASIN. THE BASIN AREA AND TEMPORARY SWALE SHALL BE SEEDED AND MULCHED UPON COMPLETION AS PER THE TEMPORARY SEEDING SPECIFATIONS.
- 12. AT A MINIMUM ALL CONTROLS ARE INSPECTED AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN D.5 INCH PER 24 HOUR PERIOD. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE, WITH THE EXCEPTION OF A SEDIMENT SETTLING POND, IT MUST BE REPAIRED OR MAINTAINED WITHIN 3 DAYS OF THE INSPECTION. SEDIMENT SETTLING PONDS MUST BE REPAIRED WITHIN 10 DAYS OF THE INSPECTION.
- 13. TEMPORARILY STORE MATERIAL EXCAVATED FOR CONSTRUCTION AT DESIGNATED AREAS. MATERIAL TO BE MAINTAINED FOR DUST CONTROL BY USE OF A COVER OR OTHER METHODS APPROVED BY OHIO
- 14. IN THE EVENT OF RAIN, ALLOW STANDING WATER TO SETTLE PRIOR TO PUMPING. UTILIZE THE PUMPING SYSTEMS TO PUMP POLLUTED WATER PER REQUIREMENTS. ALLOW ONLY CLEAN WATER TO BE DISCHARGED TO THE EXISTING DRAINAGE SWALE. REMOVE SILT FROM BASIN AS NECESSARY PRIOR TO CONTINUING EARTHWORK, MATERIAL SHOULD BE MECHANICALLY SPREAD AND DRIED PRIOR TO INCORPORATION INTO THE EARTHWORK PROCEDURES. ADEQUACY OF THE DRIED MATERIAL IS TO BE DETERMINED BY THE ONSITE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE AND ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS. CONSTRUCTION WASTES INCLUDE BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY. MEASURES SHALL BE PLANNED AND IMPLEMENTED FOR HOUSEKEEPING, MATERIALS MANAGEMENT, AND LITTER CONTROL WHEREVER POSSIBLE, RECYCLING OF EXCESS MATERIALS IS PREFERRED, RATHER THAN DISPOSAL IF WASTE MATERIAL IS REMOVED FROM THE PROJECT SITE, THE CONTRACTOR MUST PROVIDE AN EROSION AND SEDIMENTATION CONTROL PLAN TO THE REGULATORY COUNTY CONSERVATION DISTRICT MAINTAINING JURISDICTION OF THE PROJECT SITE AS WELL AS THE COUNTY CONSERVATION DISTRICT MAINTAINING JURISDICTION OF THE DISPOSAL AREA
- 15. BEGIN CLEARING AND CRUBBING WITHIN THE DISTURBANCE LIMITS.
- 16. BEGIN EARTHMOVING AND SITE GRADING OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE COUNTY CONSERVATION DISTRICT OF LOCATION AND EROSION SEDIMENTATION CONTROL MEASURES IMPLEMENTED AT BORROW OR SPOIL SITE OF IMPORT/EXPORT MATERIAL.
- 17. TEMPORARY STABILIZATION PROVIDES EROSION CONTROL ON AREAS IN BETWEEN CONSTRUCTION OPERATIONS, GRASSES WHICH ARE QUICK GROWING ARE SEEDED AND USUALLY STAW MULCHED TO PROVIDE PROMPT, TEMPORARY SOIL STABILIZATION, TEMPORARY STABILIZATION IS REQUIRED BY OHIO EPA'S GENERAL CONSTRUCTION PERMIT TO BE APPLIED ON DISTURBED SOIL AREAS WITHIN 7 DAYS IF THE AREA IS INTENDED TO BE DORMANT FOR GREATER THAN 21 DAYS, OR WITHIN 2 DAYS IF THE AREA IS WITHIN 50 FEET OF JURISDICTIONAL WATER (STREAM OR WETLAND).
- 18. BEGIN STORM SEWER AND OTHER UTILITY INSTALLATION, STABILIZE ALL UTILITY TRENCHES AT THE END OF EACH WORKDAY, INLET PROTECTION SHALL BE INSTALLED ON EACH STORM STRUCTURE UPON
- 19. REPAIR/STABILIZE ALL AREAS DESIGNATED FOR TEMPORARY SEEDING AND MULCHING. INCLUDING AREAS WHERE SLOPE IS 3:1 OR GREATER, WHICH REQUIRE A MULCH NETTING. ANY AREAS AT FINAL GRADE OR THAT WILL LIE DORMANT FOR ONE YEAR OR MORE REQUIRE PERMANENT SEEDING WITHIN ? DAYS OF THE MOST RECENT DISTURBANCE (REFER TO OHIO'S "RAINWATER AND LAND DEVELOPMENT" MANUAL). IN ADDITION, ANY AREAS WITHIN 50 FEET OF A STREAM AND AT FINAL GRADE REQUIRE EROSION CONTROLS WITHIN 2 DAYS OF REACHING FINAL GRADE. NOTE THAT A 80% VEGETATIVE DENSITY IS REQUIRED ON ALL DISTURBED SOIL AREAS FOR STABILIZATION.
- 20. MAINTAIN TEMPORARY CONTROLS UNTIL REMOVAL IS WARRANTED DUE TO PROGRESSION OF WORK.
- 22. THE TEMPORARY DRAINAGE SWALE SHALL BE REMOVED AND BROUGHT TO FINAL GRADE UPON COMPLETION OF STORM SEWER INSTALLATION.
- 22. INSTALL CONCRETE CURBS AND PAVEMENT SUBBASE. BEGIN BITUMINOUS PAVING, REMOVING STONE CONSTRUCTION ENTRANCE ONLY WHEN NECESSARY.
- 23. STABILIZE ALL DISTURBED AREAS WITH PERMANENT SEED AND MULCHING OR CROWNVETCH SEEDING IMMEDIATELY UPON REACHING FINAL GRADE.
- ALL REMAINING TEMPORARY SEDIMENT CONTROL PRACTICES (INLET PROTECT, SILT FENCE, ETC.) SHALL BE REMOVED UPON SITE STABILIZATION. NOTE 70% VEGETATIVE DENSITY IS REQUIRED ON ALL DISTURBED SOIL AREAS FOR STABILIZATION. ORANGE CONSTRUCTION FENCE SHALL REMAIN ALONG THE RIPARIAN SETBACK LIMITS UNTIL THE CONSTRUCTION AND SITE LANDSCAPING ACTIVITIES ARE COMPLETE, THE ORANGE FENCE SHALL BE REMOVED FROM THE SITE WITHOUT USING ANY EARTH
- 25. PRIOR TO CONVERSION, PUMP ALL STANDING WATER FROM WITHIN THE TEMPORARY BASIN TO A FILTERING SYSTEM IN A WELL-VEGETATED AREA OR WITHIN THE CHANNEL OF THE EMERGENCY SPILLWAY. REMOVE AND DISPOSE OF ALL INSUITABLE SEDIMENT MATERIALS ACCUMULATED WITHIN THE BASIN PRIOR TO FINAL GRADING OF THE DETENTION BASIN. IF THE BASIN WILL SERVE AS A DRY. WATER QUALITY AND DETENTION BASIN, A FORBAY AND MICROPOOL SHALL BE RESTABLISHED AND THE BOTTOM OF BASIN SHALL BE REGRADED TO PROVIDE A MEANDERING SWALE BETWEEN THE TWO POOLS. IF THE BASIN WILL SERVE AS A WET WATER QUALITY AND DETENTION BASIN. THE BASIN SHOULD BE EXCAVATED TO THE PROPOSED DEPTH SHOWN ON THE FINAL GRADING PLAN. THE TEMPORARY SEDIMENT BASIN OUTLET STRUCTURE SHOULD BE REMOVED (OR RETROFITTED) AND REPLACED WITH THE PERMANENT OUTLET STRUCTURE.
- 26. PERMANANT SEEDING AND LANDSCAPING SHOULD BE APPLIED WITHIN THE WATER QUALITY AND DETENTION BASIN UPON COMPLETION.
- 27. COMPLETE SITEWORK, PAVEMENT MARKINGS, FINAL LANDSCAPING, SIGN INSTALLATION(S), AND
- 28. RESEED AND REDRESS ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY, NOTE THAT LAWN AREAS WILL NOT BE DEEMED STABLE UNTIL A UNIFORM 70% VEGETATIVE DENSITY IS ACHIEVED.
- IF, FOR ANY REASON, THE PROJECT IS SUSPENDED, THE CONTRACTOR SHALL INSURE THAT ALL INSTALLED EROSION MEASURES ARE FUNCTIONING AND PROPERLY MAINTAINED DURING THIS PERIOD, AND THAT ALL BARED SOILS ARE SEEDED AND MULCHED WITH TEMPORARY SEED MIXTURE.
- 3D. ONCE FINAL STABILIZATION HAS BEEN ACHIEVED THE CONTRACTOR SHALL COMPLETE AND SUBMIT THE OPPA NOTICE OF TERMINATION (N.O.T) APPLICATION, INSTRUCTIONS AND APPLICATIONS ARE ALSO LOCATED ON THE EPA WEBSITE (SEE STEP #1). CONTRACTOR SHOULD VERIFY WITH THE OWNER THAT THE TERMS OF THE CONTRACT HAVE BEEN FINALIZED PRIOR TO SUBMITTING THE N.O.T.
- 30. ALL QUESTIONS REGARDING EROSION CONTROL ARE TO BE DIRECTED TO BABCOCK TO LES AT (440)357 1871 OR TO THE APPROPRIATE COUNTY CONSERVATION DISTRICT FOR REVIEW PRIOR TO THE COMMENCEMENT OF SUCH CHANGES AT THE CONSTRUCTION SITE.



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EROSION CONTROL PLAN



Jones Surveying, LLC

ENGINEERS - SURVEYORS - PLANNERS 1924 MENTOR AVE., PAINESVILLE, OHIO 440-357-1811 440-357-9173 (FAX) Hionessurveying@yahoo.com

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SITE PLAN SMITH - MURCH

10639 WISNER ROAD (P.P.# 20A-33-23) STATE OF OHIO LAKE COUNTY CITY OF KIRTLAND

02-047 SHEET

1"=40'