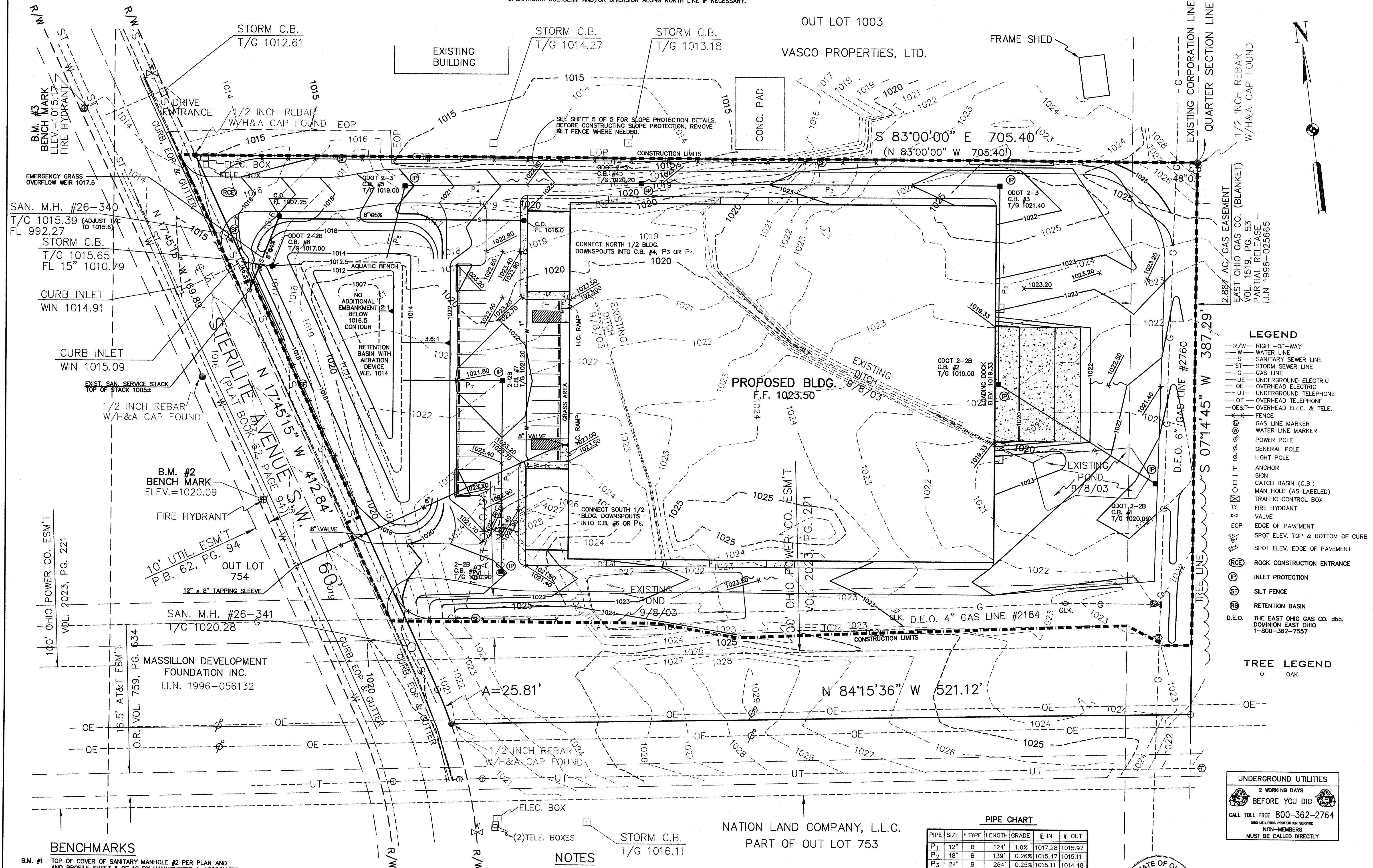






# DIVERSION NOTE

CONTRACTOR TO DIRECT RUNOFF TO SEDIMENT BASIN DURING CONSTRUCTION OPERATIONS. USE BERM AND/OR DIVERSION ALONG NORTH LINE IF NECESSARY.



## LEGEND

- R/W RIGHT-OF-WAY
- W/L WATER LINE
- S/S SANITARY SEWER LINE
- ST STORM SEWER LINE
- G GAS LINE
- UE UNDERGROUND ELECTRIC
- OE OVERHEAD ELECTRIC
- UT UNDERGROUND TELEPHONE
- OT OVERHEAD TELEPHONE
- OE&T OVERHEAD ELEC. & TELE.
- F FENCE
- GLK GAS LINE MARKER
- WLM WATER LINE MARKER
- PP POWER POLE
- GP GENERAL POLE
- LP LIGHT POLE
- ANCHOR
- SN SIGN
- CB CATCH BASIN (C.B.)
- MH MAN HOLE (AS LABELED)
- TCB TRAFFIC CONTROL BOX
- FH FIRE HYDRANT
- V VALVE
- EP EDGE OF PAVEMENT
- SEP SPOT ELEV. TOP & BOTTOM OF CURB
- SEEP SPOT ELEV. EDGE OF PAVEMENT
- RCE ROCK CONSTRUCTION ENTRANCE
- IP INLET PROTECTION
- SF SILT FENCE
- RB RETENTION BASIN
- D.E.O. THE EAST OHIO GAS CO. dba. DOMINION EAST OHIO 1-800-362-7557

## TREE LEGEND

- O OAK

PIPE CHART

PIPE	SIZE	*TYPE	LENGTH	GRADE	E IN	E OUT
P1	12"	B	124'	1.0%	1017.28	1015.97
P2	18"	B	139'	0.26%	1015.47	1015.11
P3	24"	B	264'	0.25%	1015.11	1014.48
P4	24"	B	166'	0.25%	1014.48	1014.07
P5	24"	B	52'	1.60%	1014.07	1013.24
P6	15"	B	134'	1.4%	1017.35	1015.47
P7	15"	B	70'	2.8%	1015.47	1013.51
P8	15"	B	22'	10%	1013.00	1010.79

\* USE R.C.P. (706.02), CORRUGATED POLYETHYLENE SMOOTH LINED PIPE (707.33) OR APPROVED EQUAL.

## NOTES

TOPOGRAPHIC INFORMATION BASED ON SURVEY BY HAMMONTREE & ASSOCIATES, LTD., DATED 9/8/03. CONTOUR INTERVAL = 1 FT.

SANITARY SEWER PERMITS ARE REQUIRED FROM BOTH THE CITY OF MASSILLON AND STARK COUNTY SANITARY ENGINEER FOR THIS SITE.

8" WATER SERVICE LINE UNDER STERILITE AVENUE WILL BE OPEN CUT. A CITY OF MASSILLON STREET OPENING PERMIT IS REQUIRED. CONTACT THE CITY ENGINEERING DEPARTMENT FOR PERMIT AND INSPECTION REQUIREMENTS. SEE OPEN CUT DETAIL ON SHEET 5.

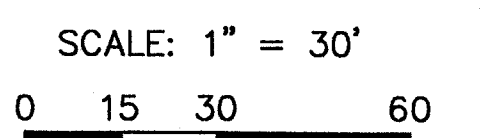
UNDERGROUND UTILITIES

2 WORKING DAYS BEFORE YOU DIG

CALL TOLL FREE 800-362-2764

OHIO UTILITIES PROTECTION SERVICE

NON-MEMBERS MUST BE CALLED DIRECTLY



## BENCHMARKS

- B.M. #1 TOP OF COVER OF SANITARY MANHOLE #2 PER PLAN AND AND PROFILE SHEET 5 OF 12 BY HAMMONTREE & ASSOCIATES, LTD. DATED: 11/25/96. (AS SHOWN ON MAP) ELEVATION = 1015.39
- B.M. #2 "X" CHISELED IN NORTH FLANGE BOLT OF FIRE HYDRANT ON WEST SIDE OF STERILITE AVENUE AND THE EAST SIDE OF OUT LOT 754. (AS SHOWN ON MAP) ELEVATION = 1020.09
- B.M. #3 "X" CHISELED IN NORTH FLANGE BOLT OF FIRE HYDRANT ON WEST SIDE OF STERILITE AVENUE AT THE SOUTHWEST CORNER OF A 6.254 ACRE TRACT. (AS SHOWN ON MAP) ELEVATION = 1015.17

SITE GRADING, EROSION/SEDIMENT CONTROL & UTILITY PLAN

NATION LAND COMPANY

SITUATED IN THE CITY OF MASSILLON, COUNTY OF STARK, STATE OF OHIO AND OUT LOT 976.

HAMMONTREE & ASSOCIATES, LTD.

ENGINEERS, PLANNERS, SURVEYORS

CANTON, OHIO

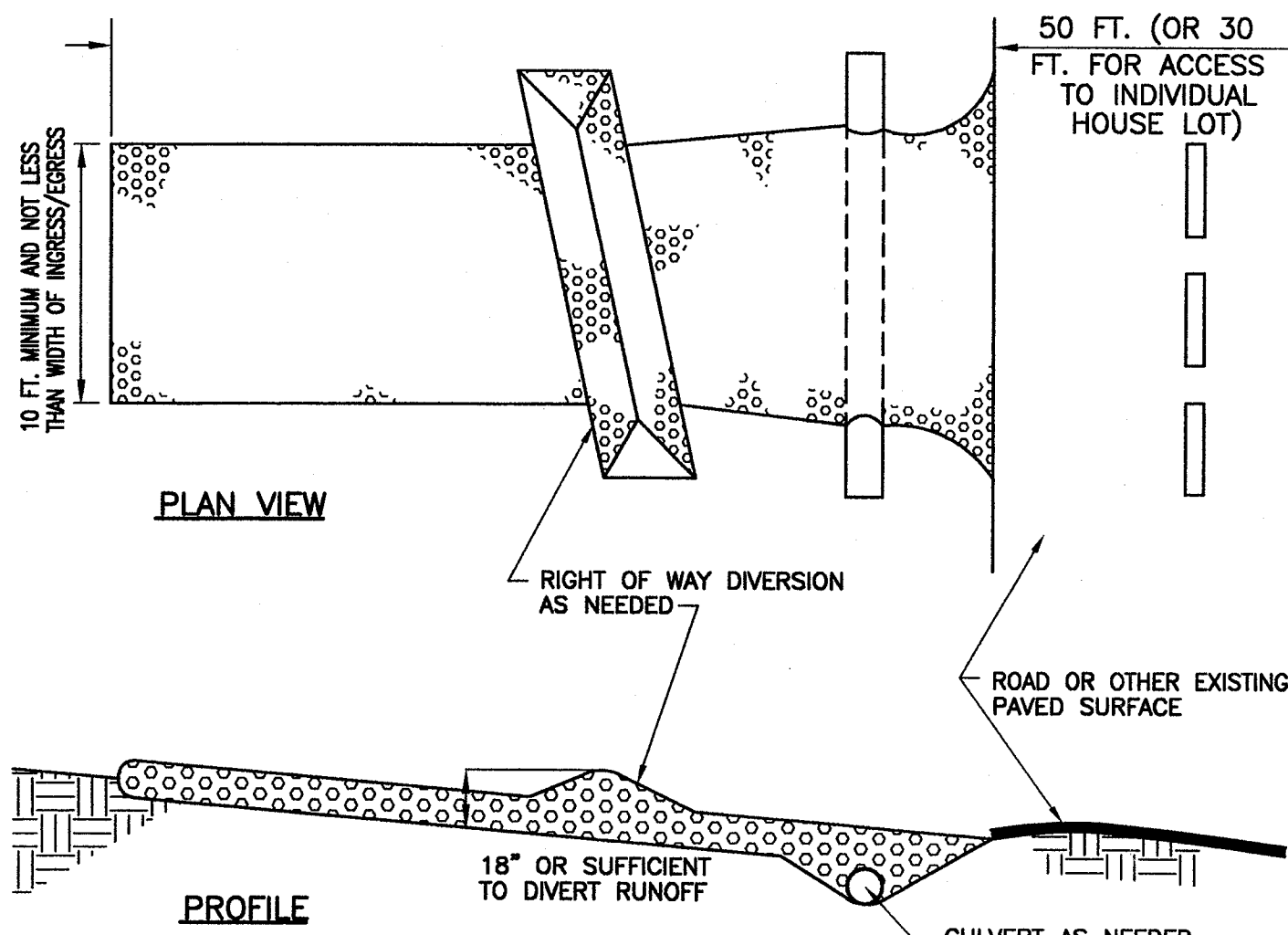
5233 STONEHAM ROAD, NORTH CANTON, OHIO 44720

PHONE: CANTON: (330) 498-8877 FAX: (330) 498-0148

TOLL FREE: 1-800-362-2764

www.hammontree-engineers.com

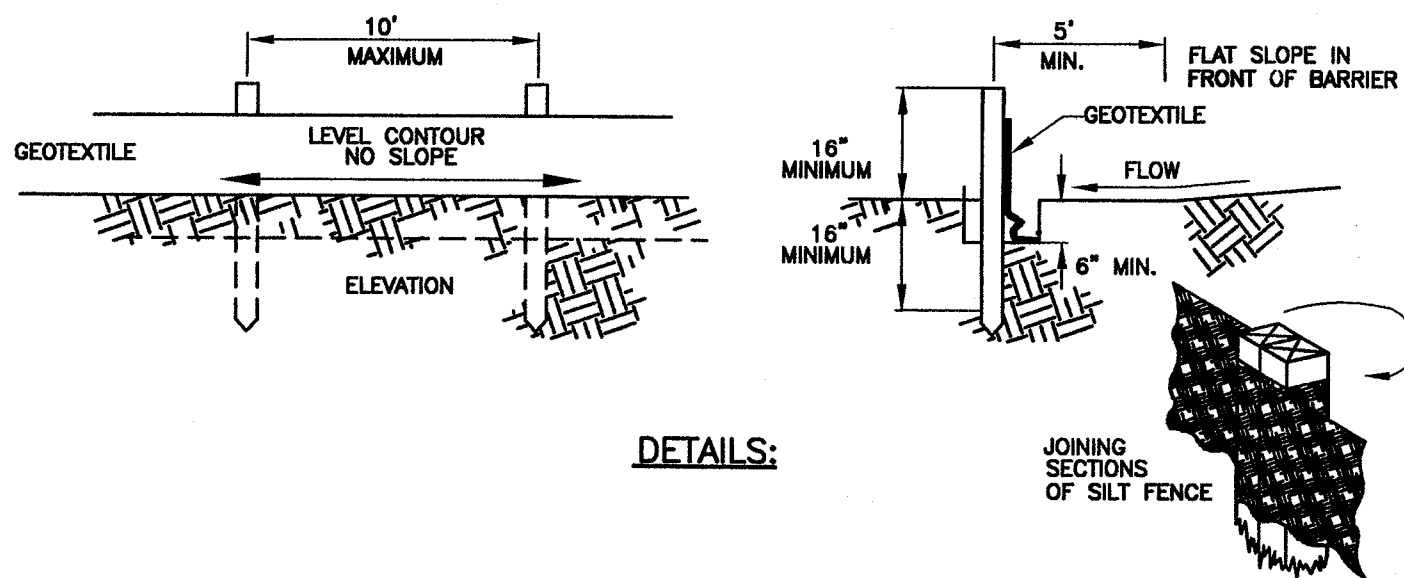




- STONE SIZE - TWO-INCH STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 50 FT. (EXCEPT ON SINGLE RESIDENCE LOT WHERE A 30-FT. MINIMUM LENGTH APPLIES.
- THICKNESS - THE STONE LAYER SHALL BE AT LEAST 6 IN. 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 GRAB TENSILE STRENGTH OF AT LEAST 200 LB. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LB.
- CULVERT - A PIPE OR 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 WALL SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY 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. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.

#### CONSTRUCTION ENTRANCE

N.T.S.



#### DETAILS:

(RCE)

- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
- WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE RE-ESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE FENCE.
- SOIL STOCKPILES OR OTHER SOURCES OF SEDIMENT SHALL HAVE SILT FENCE PROTECTION.
- THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6\"/>

#### SILT FENCE

N.T.S.

(SF)

FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB. MINIMUM	ASTM D 1682
MULLEN BURST STRENGTH	190 P.S.I. MINIMUM	ASTM D 3786
SLURRY FLOW RATE	0.3 GAL./MIN./FT. <sup>2</sup> MAXIMUM	
EQUIVALENT OPENING SIZE	40-80	US STD. SIEVE CW-02215
ULTRAVIOLET RADIATION STABILITY	90% MINIMUM	ASTM-G-26

#### CONTACT PERSON

MASSILLON DEVELOPMENT, LLC  
MICHAEL FARINA  
(330) 830-4655

#### CO-PERMITTEE

ROSEMAN CONSTRUCTION  
SEAN ROSEMAN  
(330) 830-4655

#### SITE INFORMATION

SITE DESCRIPTION - EXISTING - OPEN FIELD  
PROPOSED - COMMERCIAL BUILDING

TOTAL AREA OF SITE - 5.539 AC.  
AREA OF SITE TO UNDERGO EXCAVATION - 4.4 AC.

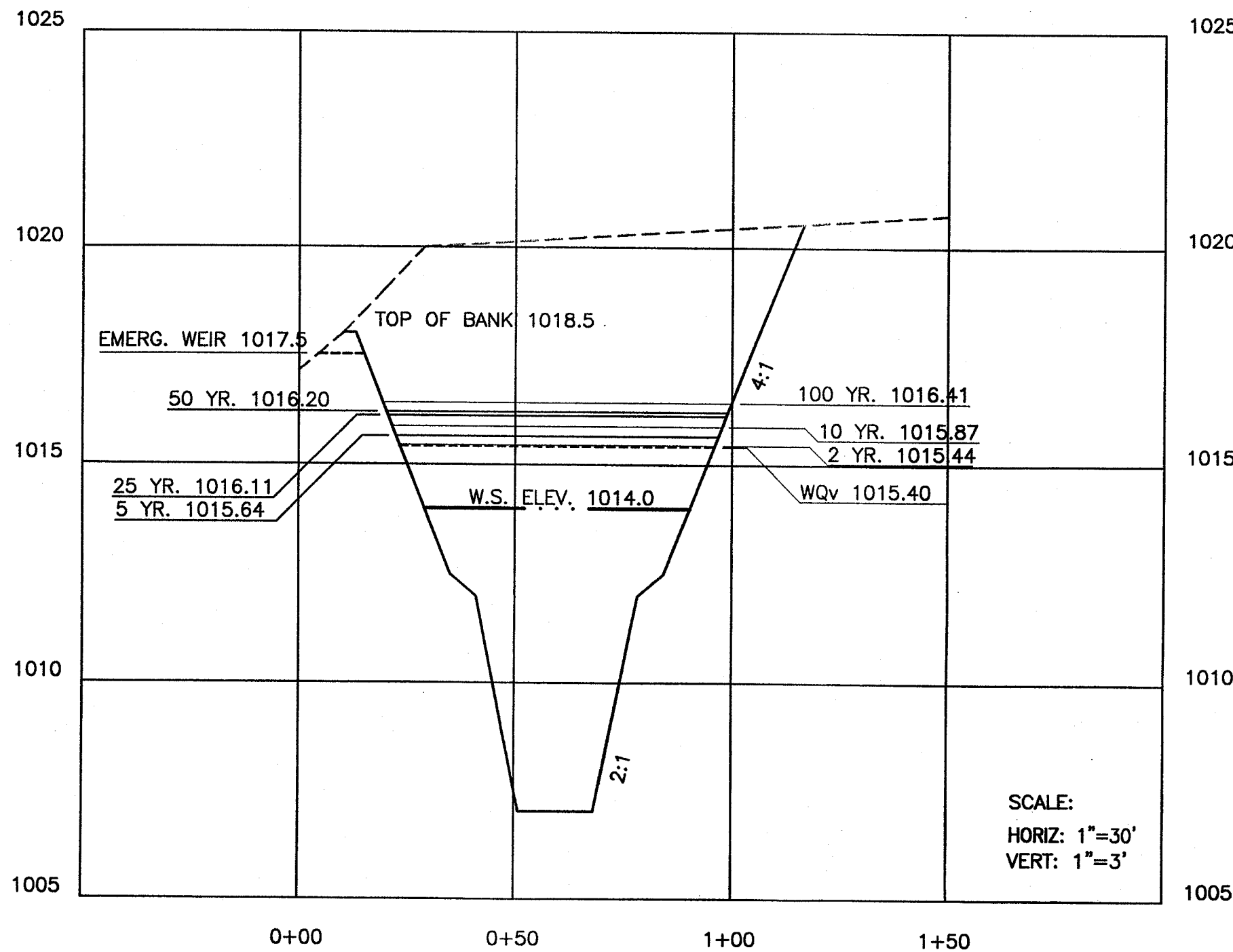
PRE-CONSTRUCTION RUNOFF COEFFICIENT - 0.40  
POST-CONSTRUCTION RUNOFF COEFFICIENT - 0.70

SCHEDULE OF MAJOR CONSTRUCTION  
COMMENCEMENT - FALL 2005  
COMPLETION - SUMMER 2006

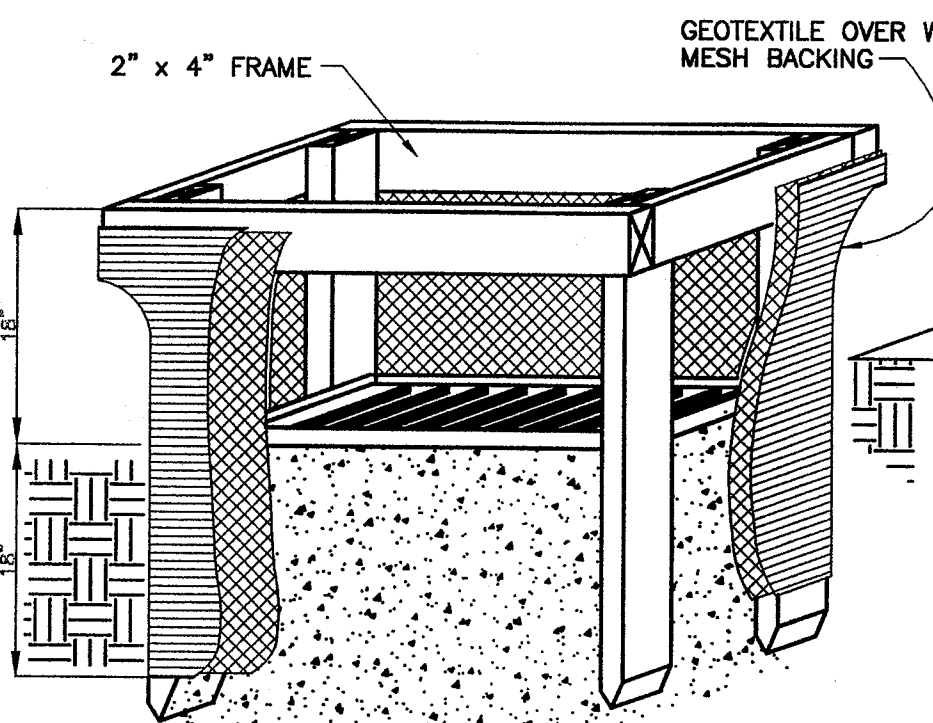
RECEIVING STREAM AND SURFACE WATERS  
CITY OF MASSILLON STORM SEWER TO UNNAMED TRIBUTARY TO TUSCARAWAS RIVER.

EXISTING SOILS ON SITE  
CdB CANFIELD SILT LOAM, 2 TO 6 PERCENT SLOPES  
CdC CANFIELD SILT LOAM, 6 TO 12 PERCENT SLOPES  
Se SEBRING SILT LOAM, TILL SUBSTRATUM  
WuD WOOSTER SILT LOAM, 12 TO 18 PERCENT SLOPES

OHIO EPA STORM WATER FACILITY PERMIT NUMBER: 30C01902\*AG



#### RETENTION BASIN CROSS SECTION



- 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 IN.
- THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2 IN. BY 4 IN. CONSTRUCTION GRADE LUMBER. THE 2 IN. BY 4 IN. POSTS SHALL BE DRIVEN 18 IN. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2 IN. BY 4 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 ON 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 IN. 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 IN. HIGHER THAN THE TOP OF THE FRAME.

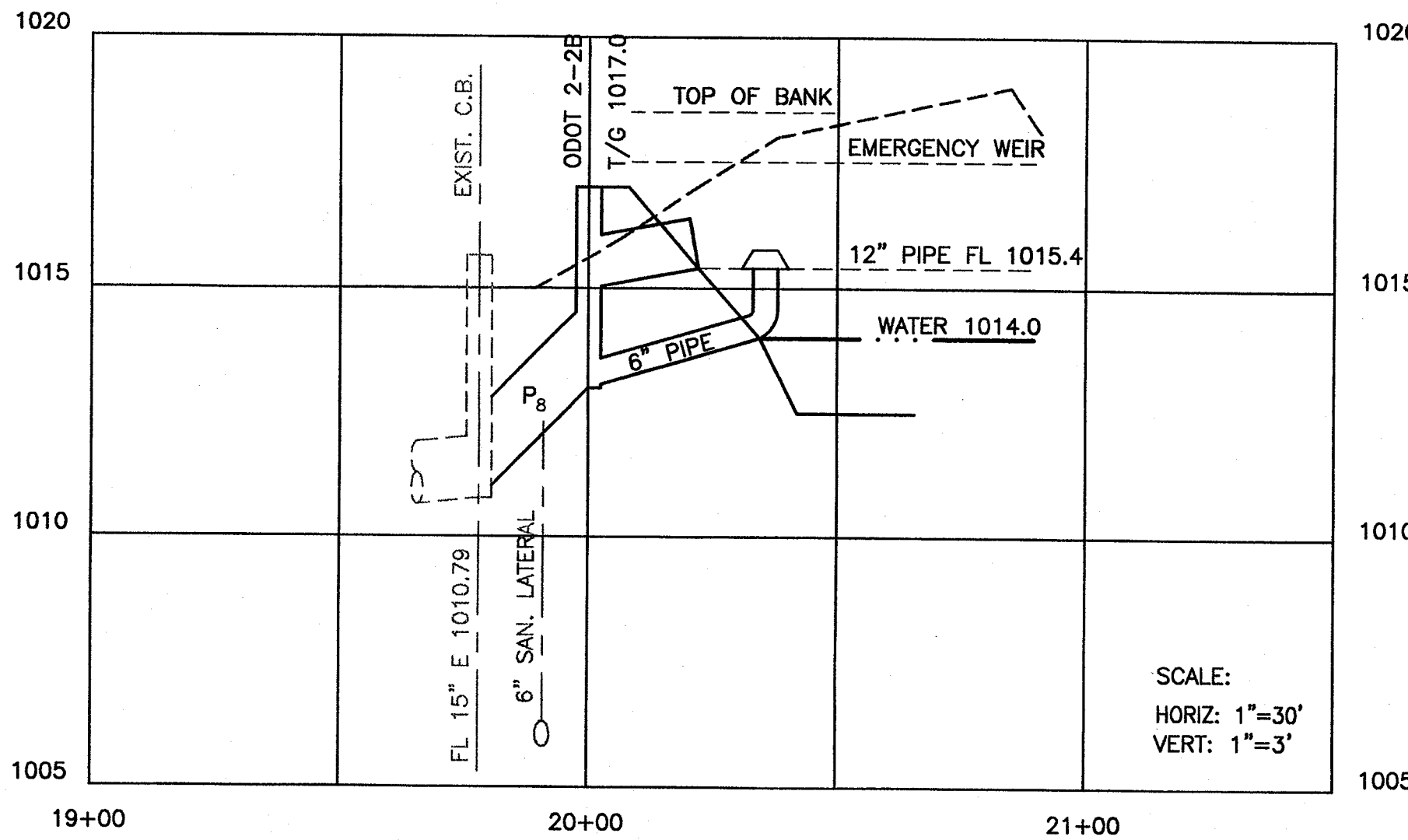
#### INLET PROTECTION IN SWALES, DITCH LINES OR YARD INLETS

N.T.S.

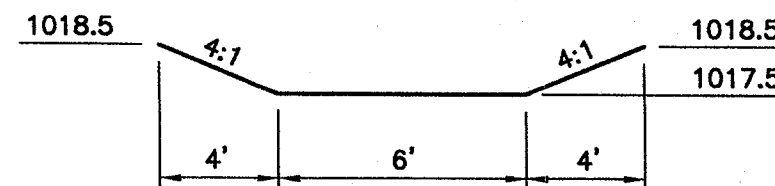
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#### EROSION CONTROL NOTES

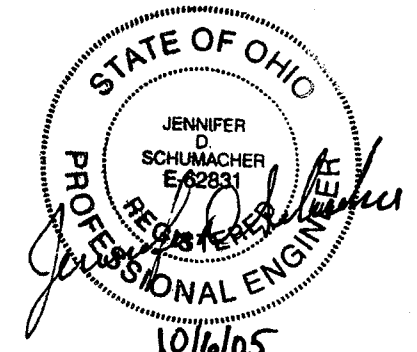
- ALL PROPERTIES ADJACENT TO THE SITE OF SOIL-DISTURBING ACTIVITY SHALL BE PROTECTED TO THE MAXIMUM EXTENT PRACTICABLE, FROM SOIL EROSION AND SEDIMENT RUNOFF AND DRAINAGE, INCLUDING, BUT NOT LIMITED TO PRIVATE PROPERTIES, NATURAL AND ARTIFICIAL WATERWAYS, WETLANDS, STORM SEWERS AND PUBLIC LANDS.
- CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL PRACTICES USED TO SATISFY THIS REQUIREMENT SHALL CONFORM, AS A MINIMUM, TO STATE OF OHIO STANDARDS AS SET FORTH IN THE MOST-CURRENT EDITION OF THE RAINWATER AND LAND DEVELOPMENT MANUAL, DEFINED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF SOIL AND WATER CONSERVATION AND NATURAL RESOURCE CONSERVATION SERVICE AND SHALL CONFORM TO THE MOST CURRENT OHIO ENVIRONMENTAL PROTECTION AGENCY, OHIO REVISED CODE CHAPTER 6111 REQUIREMENTS.
- EROSION AND SEDIMENT CONTROL PLAN APPROVALS ISSUED IN ACCORDANCE WITH THESE RULES DO NOT RELIEVE THE OWNER OF RESPONSIBILITY FOR OBTAINING ALL OTHER NECESSARY PERMITS AND OR APPROVALS FROM FEDERAL STATE, AND/OR COUNTY AGENCIES. IF REQUIREMENTS VARY, THE MOST STRINGENT REQUIREMENTS SHALL BE FOLLOWED.
- EROSION AND SEDIMENT CONTROL PRACTICES AT THE SITE, AND AS IDENTIFIED IN THE ESC PLAN SHALL COMPLY WITH THE FOLLOWING:
  - AN APPROVED EROSION AND SEDIMENT CONTROL PLAN OR APPROVAL LETTER FROM THE STARK SWCD SHALL BE LOCATED ON SITE FOR REVIEW.
  - LIMITS TO CLEARING AND GRADING SHALL BE SHOWN ON ESC PLANS. LIMITS TO CLEARING AND GRADING SHALL BE CLEARLY MARKED ON SITE WITH SIGNAGE, FLAGGING, AND/OR FENCING ETC.
  - INSTALL EROSION AND SEDIMENT PERIMETER CONTROLS AS A FIRST ACTION OF CONSTRUCTION AS SPECIFIED BY CONSTRUCTION SEQUENCE. THIS SHALL INCLUDE AND IS NOT LIMITED TO PROTECTIVE BMP'S FOR STREAM CORRIDORS AND CROSSINGS, WETLANDS, SITE ENTRANCE, SEDIMENT TRAPS & BASINS, BARRIERS, AND DIVERSION DIKES.
  - CONCENTRATED STORM WATER RUNOFF SHALL PASS THROUGH A SEDIMENT CONTROL DEVICE BEFORE EXITING THE SITE BOUNDARIES. CONCENTRATED RUNOFF FROM BARE SOIL AREAS SHALL BE DIVERTED INTO A SETTLING POND OR SEDIMENT CONTROL STRUCTURE, OR OTHER APPROVED SEDIMENT BARRIER BEFORE LEAVING THE SITE.
  - EARTHEN STRUCTURES SUCH AS DAMS, BASINS, STREAM MODIFICATIONS AND WATER DIVERSIONS SHALL BE SEEDED AND MULCHED WITHIN SEVEN (7) DAYS OF THE COMPLETION OF INSTALLATION. DAMS SHALL CONFORM TO THE OHIO DAM LAWS (ORC 1521.06).
  - STABILIZATION OF CRITICAL AREAS WITHIN 50 FEET OF ANY STREAM OR WETLAND SHALL BE TEMPORARILY STABILIZED WITHIN TWO (2) DAYS OF DISTURBANCE IF AREA WILL REMAIN INACTIVE FOR SEVEN (7) DAYS OR LONGER. CONSTRUCTION VEHICLES SHALL AVOID STREAMS AND THE 50 FOOT BUFFER AREAS. IF AN ACTIVE DRAINAGEWAY MUST BE CROSSED BY CONSTRUCTION VEHICLES REPEATEDLY DURING CONSTRUCTION, A TEMPORARY STREAM CROSSING SHALL BE CONSTRUCTED ACCORDING TO THE SPECIFICATIONS IN THE RAINWATER & LAND DEVELOPMENT BOOK. CONSTRUCTION OF BRIDGES, CULVERTS OR SEDIMENT CONTROL STRUCTURES SHALL NOT PLACE SOIL, DEBRIS AND OTHER FINE PARTICULATE MATERIAL INTO OR CLOSE TO THE WATER RESOURCE IN SUCH A MANNER THAT IT MAY SLOUGH, SLIP OR ERODE.
  - STORM SEWER INLETS (AND SANITARY) SHALL BE PROTECTED SO THAT SEDIMENT-LADEN RUNOFF WILL NOT ENTER THE STORM SEWER SYSTEM WITHOUT FIRST BEING FILTERED AND/OR TREATED.
  - RE-VEGETATE SOIL. TEMPORARY SOIL STABILIZATION SHALL OCCUR WITHIN SEVEN (7) DAYS AFTER ROUGH GRADING IF THE AREA WILL REMAIN IDLE LONGER THAN TWENTY-ONE (21) DAYS. PERMANENT SOIL STABILIZATION SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. PERMANENT VEGETATION IS A GROUND COVER DENSE ENOUGH TO COVER 80% OF THE SOIL SURFACE AND MATURE ENOUGH TO SURVIVE WINTER WEATHER CONDITION.
  - SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED TO PREVENT SOIL LOSS. STABILIZATION SHALL BE REQUIRED IF STOCKPILES ARE LOCATED WITHIN CRITICAL AREAS NEAR STREAMS OR WETLANDS, OR IF DETERMINED BY THE STARK SWCD THAT SEDIMENT FROM STOCKPILES WILL LEAVE THE SITE.
  - 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 ESC PLAN, CUT AND FILL SLOPES SHOULD BE DESIGNED TO MINIMIZE EROSION PROBLEMS. ADEQUATE SLOPE DESIGN INCLUDES USE OF ROUGH SOIL SURFACE ALONG THE FACE OF THE SLOPE, WATER DIVERSION ALONG THE TOP OF THE SLOPE AWAY FROM THE FACE; TERRACES TO REDUCE SLOPE LENGTH; DELIVERY OF CONCENTRATED STORM WATER FLOWS TO THE BASE OF THE SLOPE VIA ADEQUATE CHANNEL OR PIPE; AND DRAINAGE FOR WATER SEEPS IN THE SLOPE THAT ENDANGER SLOPE STABILITY.
  - SOIL SHALL BE REMOVED FROM PAVED SURFACES AND/OR PUBLIC ROADS AT THE END OF EACH DAY IN SUCH A MANNER THAT DOES NOT CREATE OFF-SITE SEDIMENTATION IN ORDER TO ENSURE SAFETY AND ABATE OFF-SITE SOIL LOSS. COLLECTED SEDIMENTS SHALL BE PLACED IN A STABLE LOCATION ON SITE OR TAKEN OFF-SITE TO A STABLE LOCATION.
  - STABILIZE DISTURBED OR MODIFIED DRAINAGE WAYS. REDUCE EROSION EFFECTS OF STORM WATER BY USING AND/OR MAINTAINING GRASSED SWALES, INFILTRATION STRUCTURES, OR WATER DIVERSIONS.
  - SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED ONCE EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS OF A 0.5\"/>



#### OUTLET STRUCTURE



#### EMERGENCY GRASS OVERFLOW WEIR DETAIL



ROSEMAN - STERILITE AVENUE

EROSION/SEDIMENT CONTROL NOTES AND DETAILS

NATION LAND COMPANY

SITUATED IN THE CITY OF MASSILLON, COUNTY OF STARK,

STATE OF OHIO AND BEING OUT LOT 976.

© HAMMONTREE & ASSOCIATES, LTD.

ENGINEERS, PLANNERS, SURVEYORS

CANTON PITTSBURGH AKRON

5033 STONEHAM ROAD, NORTH CANTON, OHIO 44720

PHONE: CANTON (330) 499-8817 AKRON (330) 633-7274

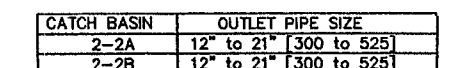
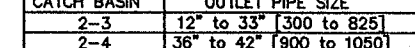
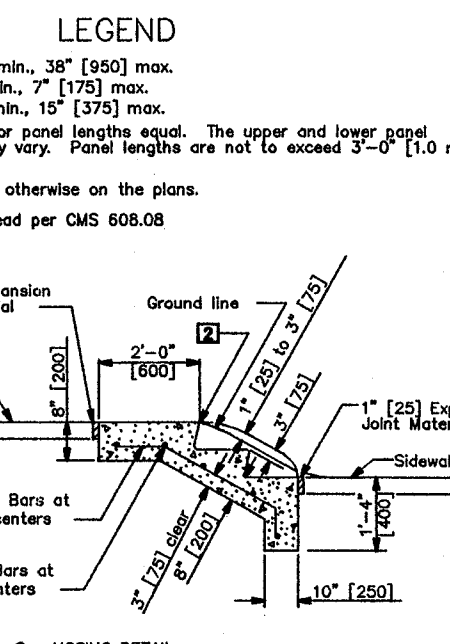
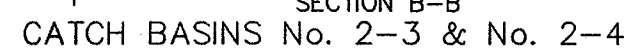
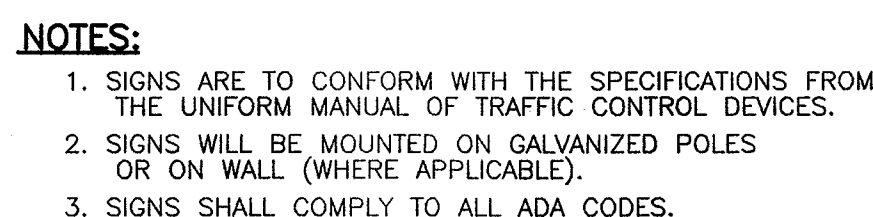
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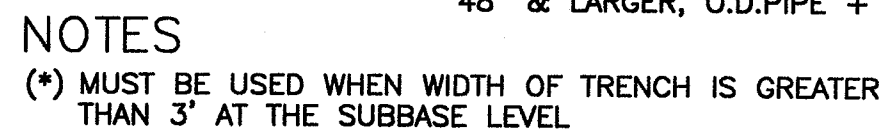
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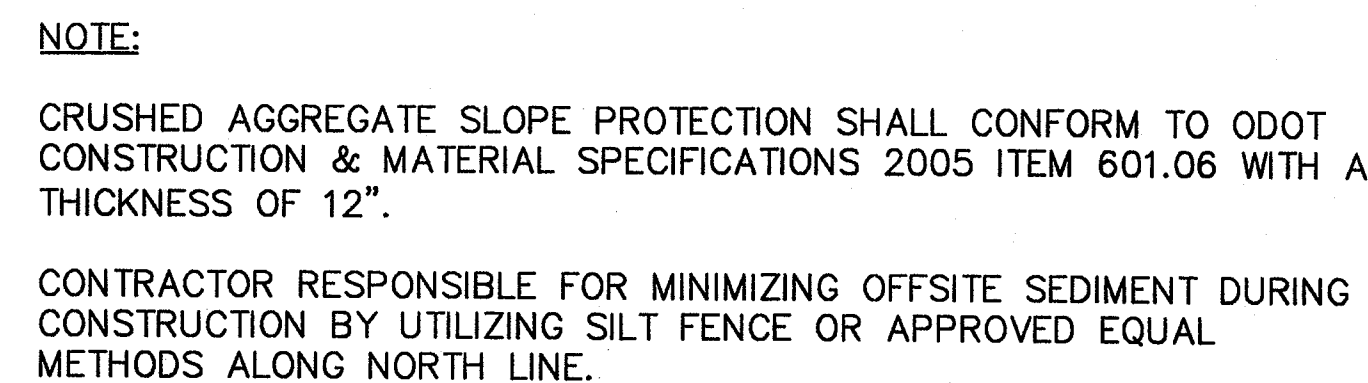
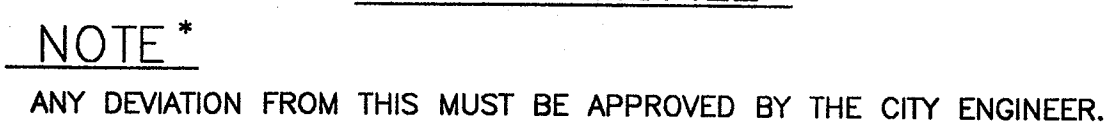








CONCRETE BASE SHALL BE OF 1:2:4, 6 BAG MIX, PORTLAND CEMENT CONCRETE USING HIGH EARLY STRENGTH CEMENT AND IT MUST BE CURED AT LEAST 48 HRS.



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F.B. \_\_\_\_\_ PAGE: \_\_\_\_\_  
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SCALES:  
HORIZ: 1"=20'

SLOPE PROTECTION  
NATION LAND COMPANY  
SITUATED IN THE CITY OF MASSILLON, COUNTY OF STARK,  
STATE OF OHIO AND OUT LOT 976.

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