

PROJECT NAME:	SHEAHER'S FOODS, INC. NEW MASSILLON PRODUCTION FACILITY	DESIGN LOADS:	ROOMS																
PROJECT ADDRESS:	4100 MILLENNIUM BLVD. SE. MASSILLON, OHIO 44646	FLOOR LIVE LOAD:	CORRIDORS																
PROJECT DESCRIPTION:	SINGLE PROJECT CONSISTING OF THREE NEW BUILDINGS HOUSING: BLDG #1 - CORPORATE OFFICE, MANUFACTURING OF POTATO CHIPS AND OTHER SNACK FOODS, WAREHOUSING AND SHIPPING OF PRODUCT BLDG #2 - WATER TREATMENT FACILITY BLDG #3 - SECURITY OFFICE	ROOF LIVE LOAD:	ASSEMBLY AREAS STAIRS & EXITS																
NEW USE GROUPS INCLUDED:	BLDG #1 - MIXED USE-NON-SEPARATED B=BUSINESS, F-1= FACTORY (MODERATE HAZARD), S-1 = STORAGE (MODERATE HAZARD), A-2 = ASSEMBLY AND A-3 = ASSEMBLY BLDG #2 - F-1= FACTORY (MODERATE HAZARD) BLDG #3 - B = BUSINESS	ROOF SNOW LOAD:	(NON-REDUCIBLE) $L_r =$ GROUND SNOW LOAD $P_g =$ FLAT ROOF SNOW LOAD $P_f =$ SNOW DRIFT LOAD ADJACENT TO HIGH WALLS = SNOW EXPOSURE FACTOR $C_e =$ SNOW LOAD IMPORTANCE FACTOR $I_s =$ THERMAL FACTOR $C_t =$																
NEW BUILDING CONSTRUCTION TYPE AND SPRINKLER INFO:	BLDG #1 = II-B / FULLY SPRINKLERED BLDG #2 = II-B / NON-SPRINKLERED BLDG #3 = II-B / NON-SPRINKLERED	WIND LOAD:	BASIC WIND SPEED (3 SECOND GUST) = WIND IMPORTANCE FACTOR $I_w =$ WIND EXPOSURE = INTERNAL PRESSURE COEFFICIENT $C_{pi} =$ WIND PRESSURE: 0 - 50 FT = 40 - 45 FT = 50 - 55 FT = 45 - 50 FT = 55 - 60 FT = 50 - 55 FT =																
ALLOWABLE SQUARE FOOTAGE AND ALLOWABLE MAXIMUM HEIGHT PER CBC TABLE 503	B = 25,000 SQ. FT. (4 STORY) F-1 = 15,500 SQ. FT. (2 STORY) S-1 = 17,500 SQ. FT. (3 STORY) A-2 = 9,500 SQ. FT. (2 STORY)	WIND LOAD PRESSURE COEFF:	WINDWARD WALLS: LEEWARD WALLS: ROOF: SIDEWALLS: INTERNAL PRESSURE:																
NEW BUILDING AREA & HEIGHT LIMITATIONS:	BLDG #1 - UNLIMITED AREA BUILDING - TWO STORY - PER CBC 507.4 (60' CLEAR SPACE ALL AROUND) BLDG #2 - NO INCREASE REQUIRED FOR AREA OR SPRINKLER (1 STORY) BLDG #3 - NO INCREASE REQUIRED FOR AREA OR SPRINKLER (1 STORY)	SEISMIC LIVE DATA:	SEISMIC USE GROUP: SEISMIC RESPONSE COEFFICIENT $C_s =$ SITE CLASS = STIFF SOIL PROFILE BASIC SEISMIC FORCE RESISTING SYSTEM:																
BUILDING USE GROUP, AREA AND OCCUPANT LOAD INFORMATION:	<table> <tr> <td>BLDG #1 PRODUCTION, WAREHOUSE AND OFFICES</td> <td>USE F-1, S-1 B, A-2</td> <td>AREA 167,215 SF</td> <td>OCCUP ACTUAL 293</td> </tr> <tr> <td>BLDG #2 WATER TREATMENT</td> <td>USE F-1</td> <td>AREA 2,000 SF</td> <td>OCCUP ACTUAL 3</td> </tr> <tr> <td>BLDG #3 SECURITY OFFICE</td> <td>USE B</td> <td>AREA 240 SF</td> <td>OCCUP ACTUAL 2</td> </tr> <tr> <td>GRAND TOTALS</td> <td></td> <td>169,455 SF</td> <td>298</td> </tr> </table>	BLDG #1 PRODUCTION, WAREHOUSE AND OFFICES	USE F-1, S-1 B, A-2	AREA 167,215 SF	OCCUP ACTUAL 293	BLDG #2 WATER TREATMENT	USE F-1	AREA 2,000 SF	OCCUP ACTUAL 3	BLDG #3 SECURITY OFFICE	USE B	AREA 240 SF	OCCUP ACTUAL 2	GRAND TOTALS		169,455 SF	298		
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BUILDINGS ADAPTA ACCESSIBLE:	BLDG #1 - YES BLDG #2 - YES BLDG #3 - YES																		



4100 MILLENNIUM BLVD. S.E.  
MASSILLON, OHIO 44646

**ALL REVISIONS MADE TO THIS  
DRAWING AFTER 05/22/09 SHALL  
BE DATED AND DESCRIBED BELOW.  
THIS DRAWING WAS LAST REVISED  
ON 05/29/09 .**

NO	DATE	REVISION DESCRIPTION
①	05/22/09	A - ISSUED FOR BID
②	05/29/09	B - ADDENDUM I
③	06/22/09	C - ISSUED FOR CONSTRUCTION
④	00/00/00	AAAAA
⑤	00/00/00	AAAAA
⑥	00/00/00	AAAAA

**SEE THE FOLLOWING WEBSITE FOR LATEST DRAWINGS  
ISSUED FOR THIS PROJECT.**  
**[www.schumacherconstruction.com/drawings](http://www.schumacherconstruction.com/drawings)**

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APPROVED BY THE MASSILLON CITY ENGINEER THIS 22<sup>ND</sup>  
DAY OF JUNE, 2009  
KEITH A. DYLEWSKI, PE  
KEITH A. DYLEWSKI, PE

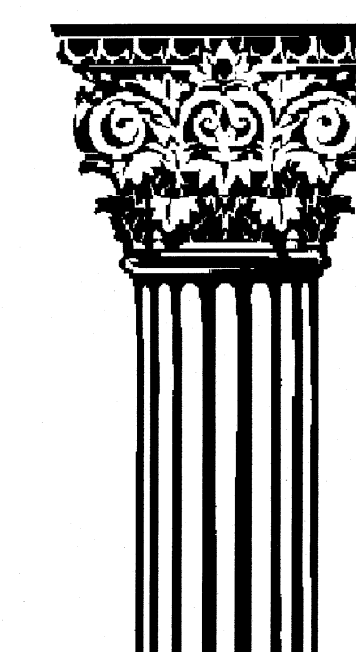
ONLY APPROVED SIGNED PLANS BY CITY ENGINEER ARE TO BE USED FOR CONSTRUCTION.

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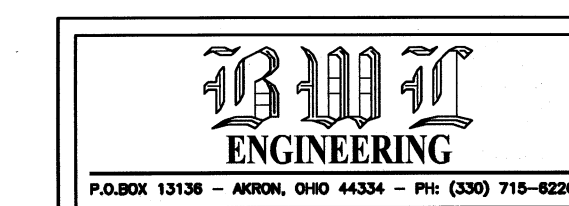
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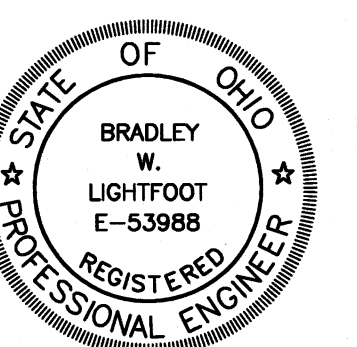
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PLANS PREPARED BY:



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NEW MASSILLON PRODUCTION FACILITY  
4100 MILLENNIUM BOULEVARD SE  
MASSILLON, OHIO 44646

Project Number 09010	Sheet  <b>T1</b>
Date 06-22-09	
Scale AS SHOWN	

# T1



GENERAL

THE PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE COUNTY OF STARK AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION REQUIREMENTS, STANDARDS, AND SPECIFICATIONS.

ALL KNOWN UTILITIES HAVE BEEN SHOWN ON THE PLANS. THE CONTRACTOR SHALL FIELD-VERIFY THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

VERIFY EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE STARTING CONSTRUCTION. INFORM OWNER OF ANY DISCREPANCIES.

THE CONTRACTOR SHALL ALERT THE OHIO UTILITIES PROTECTION SERVICE AT 800-362-2764 AND OTHER APPROPRIATE UTILITIES AS NECESSARY AT LEAST FORTY- EIGHT (48) HOURS BEFORE ANY EXCAVATION OR CONSTRUCTION IS INITIATED TO ARRANGE FOR UTILITY VERIFICATION AND CONSTRUCTION INSPECTION SERVICES, RESPECTIVELY. INFORM OWNER OF ANY DISCREPANCIES.

THE EXISTING CONTOURS AND PROFILES WERE COMPUTER GENERATED THROUGH TOTAL STATION FIELD TOPOGRAPHY SURVEY DATA COLLECTION AND AERIAL GIS. THE CONTOURS ARE IN ONE (1) FOOT INCREMENTS ± 1'. PROPOSED ELEVATIONS SHALL NOT BE CHANGED WITHOUT THE APPROVAL OF THE OWNER.

HORIZONTAL AND VERTICAL CONTROL MONUMENTS AFFECTED BY THE PROJECT SHALL BE REMOVED AND REPLACED TO THEIR ORIGINAL REFERENCE LOCATIONS AND ELEVATIONS BY THIS CONTRACTOR.

ALL ROAD SURFACES, UTILITIES, BUILDINGS, STRUCTURES, SITE CONDITIONS, OR RIGHT OF WAYS DISTURBED BY CONSTRUCTION OF ANY PART OF THIS IMPROVEMENT ARE TO BE RESTORED COMPLETELY TO THE BEFORE CONSTRUCTION CONDITION OR BETTER WHEN ORDERED BY THE OWNER AND/OR THE STARK COUNTY ENGINEER.

ALL EXISTING SITE PARKING AND ACCESS DRIVE PAVEMENT MATERIAL SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. RECYCLING OF PAVEMENT MATERIAL MAY BE APPROVED AS FILL OR BASE MATERIAL IF IT MEETS PROPER SPECIFICATIONS PER OHIO DOT.

ALL DISTURBED SIGNS, GUARDRAIL, MAIL AND/OR PAPER BOXES, DRIVES AND DRIVE CULVERTS SHALL BE REPAIRED AND/OR REPLACED AS DIRECTED BY THE OWNER.

ALL DISTURBED AND/OR DAMAGED STORM SEWER PIPES, STORM SEWER APPURTENANCES, PAVEMENTS, BERMS AND DITCHES SHALL BE REPAIRED AND/OR REPLACED AS DIRECTED BY THE OWNER.

ANY DEFECTS IN THE CONSTRUCTION INCLUDING MATERIALS OR WORKMANSHIP SHALL BE REPLACED OR CORRECTED BY REMOVAL AND REPLACEMENT OR OTHER APPROVED METHOD PRIOR TO ACCEPTANCE BY THE OWNER.

THE CONSTRUCTION OF THIS PROJECT SHALL BE GOVERNED BY THE STATE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (LATEST EDITION) SUPPLEMENTED WHERE APPLICABLE BY THE LOCAL SPECIFICATIONS.

CONTRACTOR SHALL NOTIFY THE OWNER TWENTY-FOUR (24) HOURS PRIOR TO STARTING CONSTRUCTION.

BEFORE ACCEPTANCE OF THE SUB-GRADE BY THE PROJECT ENGINEER, PROOF-ROLLING SHALL BE REQUIRED ON ALL AREAS TO BE PAVED PER APPLICABLE SECTIONS OF THE STATE OF OHIO D.O.T. CONSTRUCTION AND MATERIAL SPECIFICATIONS (LATEST EDITION). IN ADDITION, FOR ANY FILL IN EXCESS OF TWO (2) FEET, NUCLEAR COMPACTION TESTS SHALL BE PERFORMED BY AN APPROVED COMPANY AS PER OHIO D.O.T. CONSTRUCTION AND MATERIAL SPECIFICATIONS (LATEST EDITION). THESE TESTS SHALL BE APPROVED BY THE PROJECT ENGINEER BEFORE ANY PAVEMENT CONSTRUCTION.

FOR ALL PAVING MATERIALS, THE CONTRACTOR SHALL PROVIDE THE COUNTY ENGINEER WITH A JOB MIX FORMULA FOR REVIEW AND APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING. ALL MATERIALS USED MUST BE OBTAINED FROM A SOURCE APPROVED BY OHIO D.O.T. THE CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC AT ALL TIMES.

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.

NO PART OF ANY DRIVEWAY OR DRIVEWAY APPROACH WITHIN THE STREET EASEMENT SHALL BE INSTALLED CLOSER THAN FIVE (5) FEET TO ANY INLET, UTILITY POLE, OR GUY WIRE ANCHOR AND FIVE (5) FEET FROM ANY FIRE HYDRANT.

ALL CONTRACTORS TO INCLUDE IN THEIR BID, THE TIME REQUIRED TO GENERATE/COORDINATE A FULL SET OF COORDINATION DRAWINGS FOR THEIR RESPECTIVE WORK AS WELL AS THE TIME REQUIRED TO MEET WITH ALL OTHER DISCIPLINES FOR SUCH COORDINATION.

CONSTRUCTION MATERIALS

ALL MATERIALS SHALL BE LOCALLY SUPPLIED FROM WITHIN A 500 MILE RADIUS OF THE PROJECT SITE. FORMAL DOCUMENTATION SHALL BE REQUIRED IN ACCORDANCE WITH LEED REQUIREMENTS.

UTILITIES

ALL WATER LINES, STORM SEWERS SEWERS AND THEIR APPURTENANCES SHALL BE CONSTRUCTED, TESTED AND INSPECTED UNDER THE SUPERVISION OF THE LOCAL GOVERNING AUTHORITY.

EXCAVATIONS SHALL BE SHORED OR SLOPED AS NECESSARY TO PROVIDE SAFE WORKING CONDITIONS DURING CONSTRUCTION. IN DEEP TRENCHES OR WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, A TRENCH BOX OR OTHER METHOD OF EMBANKMENT STABILIZATION WILL BE REQUIRED.

MAXIMUM ALLOWABLE UNDERGROUND UTILITY TRENCH WIDTH FOR SERVICES SHALL BE 3 FEET, UNLESS NOTED OTHERWISE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DOCUMENTATION OF ALL SANITARY & STORM SEWER LATERALS, AND WATER SERVICES AS THEY ARE ENCOUNTERED DURING EXCAVATION ON THE PROJECT.

THESE REQUIREMENTS ARE TO BE FOLLOWED REGARDLESS OF THE MATERIAL USED TO BACKFILL OR FILL. THESE REQUIREMENTS PERTAIN TO INSTALLATION OF ALL UTILITIES, NOT JUST THE STORM SEWER.

ALL UTILITY TRENCHES OUTSIDE THE 45° INFLUENCE LINE SHALL BE BEDDED AND BACKFILLED WITH #57 LIMESTONE A MINIMUM OF 6" ABOVE THE PIPE CROWN.

THE OWNER, HIS AGENT OR CONTRACTOR, MUST USE ONLY APPROVED OHIO D.O.T. MATERIAL FOR BACKFILLING OPERATIONS UNDER PROPOSED PAVEMENT OR WITHIN THE 45° INFLUENCE LINE.

REGARDLESS OF THE TYPE OF BACKFILL USED ON THIS PROJECT, THE OWNER OR HIS AGENT MUST PROVIDE THE TESTING SERVICES NECESSARY TO DETERMINE THE DENSITY OF THE MATERIALS PLACED IN TRENCHES OR FILL AREAS AS DIRECTED BY THE PROJECT ENGINEER. THE OWNER WILL BE RESPONSIBLE FOR PAYMENT FOR THE TESTING SERVICES.

ANY MATERIALS THAT ARE NOT ABLE TO BE COMPACTED TO THE REQUIRED COMPACTION WILL NEED TO BE REMOVED AND REPLACED WITH MATERIALS THAT CAN ACHIEVE THE REQUIRED COMPACTION.

ANY TRENCH BACKFILLING OUTSIDE THE PAVED AREAS SHALL HAVE A COMPACTION OF A MINIMUM OF 80% OF THE MAXIMUM LABORATORY DRY DENSITY. THE PROJECT ENGINEER MAY SPOT TEST THESE AREAS FOR COMPLIANCE WITH THE REQUIREMENTS.

EMBANKMENT CONSTRUCTION AT DETENTION PONDS SHALL MEET OHIO D.O.T. SPECIFICATIONS.

THE LINE AND GRADE OF WATER MAINS SHALL BE CONTROLLED DURING THE MAIN LINE CONSTRUCTION BY USE OF AN APPROVED LASER DEVICE. THE LINE AND GRADE OF THE LASER SHALL BE CHECKED FROM LINE AND GRADE STAKES AT A MAXIMUM OF FIFTY FOOT INTERVALS.

ALL WATER LINE CONSTRUCTION CONDUIT BEDDING, PIPE COVER AND BACKFILL SHALL BE AS NOTED ON THE TYPICAL TRENCH DETAIL.

WHEREVER UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED THAT ARE NOT INDICATED ON THE PLANS, THE WORK SHALL BE DISCONTINUED UNTIL THE PROJECT ENGINEER AND THE COUNTY APPROVE THE METHOD AND MATERIALS TO BE INCORPORATED INTO THE WORK, AS ALL CONDUITS SHALL BE INSTALLED ON A FIRM BED FOR ITS FULL LENGTH IN ACCORDANCE WITH APPLICABLE OHIO D.O.T. REQUIREMENTS UNLESS OTHERWISE SPECIFIED.

AT ALL LOCATIONS, THE CONTRACTOR SHALL AVOID DISTURBANCE OF EXISTING ROADWAY PAVEMENTS. ONLY AREAS AS INDICATED ON THE PLANS SHALL BE DISTURBED. AT LOCATIONS WHERE DISTURBANCE IS EMINENT, THE CONTRACTOR SHALL CONTACT THE CITY FOR APPROVAL. ALL REPLACEMENT WILL BE AS SHOWN ON THE PLANS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING WATER AND SEWERAGE SYSTEMS.

A WITNESS STAKE SHALL BE PROVIDED AT THE END OF EACH LATERAL AND WATER SERVICE. THE STAKE SHALL EXTEND A MINIMUM OF THREE (3) FEET ABOVE GRADE AND SHALL BE COLOR CODED AS FOLLOWS:

ELECTRIC & LIGHTING  
STORM & SANITARY SEWER  
WATER & IRRIGATION  
GAS, OIL, STEAM OR PETROLEUM  
COMMUNICATION, ALARM OR SIGNAL  
SURVEY MARKINGS  
EXCAVATION

RED  
GREEN  
BLUE  
YELLOW  
ORANGE  
PINK  
WHITE

ALL MANHOLE CONNECTIONS SHALL CONFORM TO THE OHIO D.O.T. STANDARD CONSTRUCTION SPECIFICATIONS AND REQUIREMENTS.

ALL STORM SEWERS SHALL UNDERGO VCR TELEVISION INSPECTION AND TESTING. SERVICES SHALL BE PERFORMED BY AN EXPERIENCED AND QUALIFIED FIRM ENGAGED IN THIS TYPE OF WORK, AS APPROVED BY THE PROJECT ENGINEER. WRITTEN REPORTS OF ALL INSPECTION AND TESTING SHALL BE SUBMITTED TO THE OWNER AND THE PROJECT ENGINEER FOR APPROVAL. ALL STORM SEWERS MUST BE FLUSHED AND HAVE A VCR TELEVISION INSPECTION IN ACCORDANCE WITH THE PROJECT ENGINEER SPECIFICATION AFTER THE COMPLETION OF PAVEMENT CONSTRUCTION. IF THE INSTALLATION FAILS TO MEET THE REQUIREMENTS OF THESE TESTS AND INSPECTIONS, THE CONTRACTOR SHALL REPAIR OR REPLACE ALL DEFECTS AND RETEST THE INSTALLATION.

ALL SEWER AND SURFACE DRAINAGE CONSTRUCTION AND MATERIAL SHALL BE IN ACCORDANCE WITH THE STATE OF OHIO CONSTRUCTION AND MATERIALS SPECS.

THE LOCATION OF PROPOSED INLETS TO CONFORM TO GRADE DETAILS AND DRIVEWAY LOCATIONS.

GEOTECHNICAL ENGINEERING SERVICES ARE REQUIRED AS A PART OF THIS PLAN AND A FOUNDATION CONSULTANT IS TO BE OBTAINED BY THE OWNER/DEVELOPER TO REVIEW THE PLANS PRIOR TO FINALIZING DESIGN AND THE COMMENCEMENT OF CONSTRUCTION. THE GEOTECHNICAL ENGINEER IS TO PROVIDE WHATEVER EXPLORATIONS AND SERVICES ARE DEEMED NECESSARY TO MONITOR THE EARTHWORK AT THE VARIOUS STAGES OF DEVELOPMENT TO PROVIDE CONSTRUCTION REVIEW SERVICES, TO PERFORM ON-SITE DEVELOPMENT, TO PERFORM ON-SITE INSPECTION AND TESTING TO ASSURE THAT THIS WORK UNDER HIS JURISDICTION IS PERFORMED IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AND CONFORMS TO THE REGULATIONS OF GOVERNMENTAL AGENCIES.

THE TOPOGRAPHIC AND UTILITY INFORMATION SHOWN IS BASED ON A TOPOGRAPHIC SURVEY PREPARED BY BWL ENGINEERING AND SUPPLEMENTED BY AERIAL GIS, ORTHOPHOTOS AND SUBDIVISION DRAWINGS.

ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO INSTALLATION OF PAVEMENT.

SITE GRADING

ALL ELEVATIONS ARE BASED ON A TEMPORARY BENCHMARK - RIM OF STORM MANHOLE #12 LOCATED AT THE INTERSECTION OF PROSPECT DR. S.E. AND MILLENNIUM BLVD. S.E. WITH AN ASSUMED ELEVATION OF 1017.59 SEE DRAWING C4.

ALL FILL SHALL BE COMPACTED TO 95% DRY DENSITY, MODIFIED PROCTOR. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STATE AND CITY PERMITS, INCLUDING, BUT NOT LIMITED TO BUILDING, DEMOLITION, EROSION CONTROL, AND ENCROACHMENT PERMITS. NO WORK IS TO BE INITIATED UNTIL PERMITS ARE RECEIVED.

CONTRACTOR TO SLOPE ALL SITE WORK FOR POSITIVE DRAINAGE. CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONSTRUCTION DOCUMENTS AND SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD ANY DISCREPANCIES, OMISSIONS, OR INCONSISTENCIES BE DISCOVERED THAT WOULD PRECLUDE POSITIVE DRAINAGE PRIOR TO COMMENCING ANY CONSTRUCTION.

CONTRACTOR SHALL TAKE FIELD MEASUREMENTS TO VERIFY THAT LOCATIONS ARE CORRECT PRIOR TO COMMENCING CONSTRUCTION.

CONTRACTOR SHALL VERIFY THE LOCATION AND INVERT ELEVATIONS OF ALL UNDERGROUND UTILITIES AND VERIFY PROPERTY CORNERS AND TOPO BEFORE ANY CONSTRUCTION HAS BEGUN. CALL UTILITY COMPANIES BEFORE ANY EXCAVATION TO LOCATE ALL BURIED AND UNDERGROUND UTILITIES.

THE GRADING CONTRACTOR SHALL PROOF-ROLL THE CONSTRUCTION AREA WITH HEAVY-PNEUMATIC EQUIPMENT. ALL SOFT SPOTS SHALL BE UNDERCUT AND RECOMPACTED WITH SUITABLE MATERIAL TO PRESCRIBED GRADES.

TOP SOIL SHALL BE STRIPPED TO A DEPTH AS REQUIRED AND USED AS FILL MATERIAL IN LANDSCAPING AREAS.

ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE TESTING COMPANY AND SHALL BE FREE OF ROOTS, ORGANICS AND BOULDERS. FILL SHALL BE PLACED IN 6" LIFTS AND COMPACTED AS SPECIFIED.

THE GRADING CONTRACTOR SHALL CONFORM TO ELEVATIONS AND DIMENSIONS SHOWN WITHIN A TOLERANCE OF PLUS OR MINUS 0.10 FEET.

ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III, UNLESS NOTED OTHERWISE ON DRAWINGS AND SHALL CONFORM TO STATE SPECIFICATIONS. JOINTS SHALL BE TONGUE AND GROOVE WITH MASTIC JOINT MATERIAL.

ALL UTILITY TRENCHES ARE TO BE THOROUGHLY COMPACTED TO PREVENT SETTLEMENT AND DAMAGE TO FURTHER CONCRETE/ASPHALTIC PAVEMENT AND STRUCTURES.

TOPSOIL SHALL BE STRIPPED OVER THE AREAS AFFECTED BY GRADING AND STOCKPILED AS APPROVED BY THE OWNER PRIOR TO INITIATION OF EARTHWORK ACTIVITIES.

DRIVEWAY AND ROADWAY SUBGRADES SHALL BE COMPACTED TO 98% MAXIMUM DRY DENSITY PER ASTM D698.

ALL DRIVEWAY AND ROADWAY FILL SHALL BE PLACED IN LOOSE-LIFT THICKNESSES OF NO MORE THAN 8 INCHES AND COMPACTED PER THE APPLICABLE SPECIFICATIONS.

COMPACTION TESTING OF FILL MATERIAL UNDER PROPOSED ROADWAY AND DRIVEWAY PAVEMENT AREAS SHALL BE PERFORMED AS DIRECTED BY THE PROJECT ENGINEER. FILL WHICH FAILS TO MEET THE APPLICABLE COMPACTION REQUIREMENTS SHALL BE CORRECTED TO THE SATISFACTION OF THE PROJECT ENGINEER BEFORE PAVING WILL BE PERMITTED.

COMPACTED FILLS ARE TO BE MADE A MINIMUM OF THREE (3) FEET ABOVE THE CROWN OF ANY PROPOSED SEWER PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID SEWERS. ALL FILLS SHALL BE CONTROLLED, COMPACTED AND INSPECTED BY AN APPROVED TESTING LABORATORY OR AN INSPECTOR FROM THE APPROPRIATE GOVERNMENTAL AGENCY. A COPY OF THESE TESTING REPORTS SHALL BE SUBMITTED TO THE ENGINEER.

AFTER COMPLETION OF GRADING, BEFORE PLACEMENT OF LIMESTONE SURFACE, THE CONSTRUCTION ROAD AREA SHALL BE SPRAYED WITH HERBICIDE.

ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION, AND ARE TO FINAL GRADE AND TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL, IN ACCORDANCE WITH APPLICABLE STATE OF OHIO SPECIFICATIONS.

EXCESS EXCAVATION IS TO BE REMOVED AND HAULED TO A SITE WITH AN EXISTING FILL PERMIT OR TO A SITE APPROVED BY THE LOCAL AUTHORITIES HAVING JURISDICTION.

E.P.A. CLEARANCES AND GUIDELINES

A 12' VERTICAL CLEARANCE MUST BE MAINTAINED FROM THE EDGE OF ALL WATERMAINS TO THE EDGE OF ALL PROPOSED STORM SEWERS AND/OR INLET LEAD PIPE WHERE THEY CROSS.

A 40' MINIMUM HORIZONTAL CLEARANCE MUST BE MAINTAINED FROM THE EDGE OF THE WATERMAIN PIPE TO THE EDGE OF THE STORM SEWER PIPE AND STORM SEWER MANHOLES.

A 100' MINIMUM HORIZONTAL CLEARANCE MUST BE MAINTAINED FROM THE EDGE OF THE WATERMAIN PIPE TO THE EDGE OF THE SANITARY SEWER AND/OR FORCE MAIN PIPE.

AN 18" MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED FROM THE EDGE OF ALL WATER MAINS &/OR SERVICES TO THE OUTSIDE EDGE OF ALL SANITARY SEWER PIPES WHERE THEY CROSS.

GEOMETRY NOTES

THE BENCHMARK FOR THE PROJECT IS AS INDICATED ON THE SITE DRAWING C4.

UTILITY POINTS ARE LOCATED AT THE CENTER OF CATCH BASIN INLETS, MANHOLES OR PIPING.

ALL MONUMENT BOXES SHALL CONFORM TO OHIO D.O.T. REQUIREMENTS.

THE COORDINATE CONTROL POINTS FOR THE PROJECT ARE INDICATED ON DRAWING C2.

WATER LINE NOTES

THE CONTRACTOR MUST MAINTAIN A 12-INCH MINIMUM VERTICAL CLEARANCE FROM THE EDGE OF ALL DIRECT BURIAL CONDUITS, CONCRETE ENCASED ELECTRICAL CONDUITS, LIGHT POLE BASES, AND HAND HOLE PULL BOXES.

THE CONTRACTOR MUST MAINTAIN A 36-INCH MINIMUM HORIZONTAL CLEARANCE FROM THE EDGE OF ALL WATER MAINS TO THE EDGE OF ALL DIRECT BURIAL CONDUITS, CONCRETE ENCASED ELECTRICAL CONDUITS, LIGHT POLE BASES, AND HAND HOLE PULL BOXES.

GATE VALVES, 4-INCH THROUGH 12-INCH DOUBLE-DISK VALVES WITH JOINTS, PUSH-ON JOINTS WITH RESILIENT GASKETS, OR MECHANICAL JOINTS WITH MEGALUGS OR ANCHOR PIPE, OR RESILIENT SEAT WEDGE (RSW) VALVES WITH PUSH-ON JOINTS WITH RESTRAINING GASKETS OR MECHANICAL JOINTS WITH MEGALUGS.

MECHANICAL JOINT T-HEAD BOLTS, ALL MECHANICAL JOINTS SHALL BE MADE WITH CONSTRUCTION GRADE DUCTILE IRON, COR-10EN STEEL, OR PASSIVATED STAINLESS STEEL 316 BOLTS STAMPED 'B&M'.

RESTRAINED JOINTS SHALL BE INSTALLED FOR A LENGTH OF 30 FEET ON EACH SIDE OF A VALVE OR FITTING.

BEFORE ACCEPTANCE, THE WATER MAIN SHALL BE PRESSURE TESTED ACCORDING TO AWWA C-600, LATEST EDITION, AND DISINFECTED ACCORDING TO AWWA C-651, LATEST EDITION.

THE CONTRACTOR SHALL SUPPLY A TEMPORARY SAFE WATER SERVICE TO ALL BUILDINGS THAT WILL HAVE THEIR WATER SERVICE INTERRUPTED BY THIS CONSTRUCTION.

NO WATER SERVICES SHALL BE MADE UNTIL AFTER THE WATER LINE HAS BEEN PRESSURE TESTED AND STERILIZED.

USE EXTREME CAUTION WHEN EXCAVATING IN THE AREA OF EXISTING WATER MAIN PIPES, VALVES, HYDRANTS, AND THRUST BLOCKS.

ALL EXISTING WATER LINES, HYDRANTS, VALVES, VALVE BOXES, METER VAULTS, SERVICE LINES, OR CURB BOXES DAMAGED OR MUST BE ADJUSTED AND/OR MOVED MUST BE REPAIRED, ADJUSTED, MOVED, AND/OR REPLACED AT CONTRACTOR'S EXPENSE.

WHERE WATER LINES CROSS SEWER TRENCHES, THE TRENCH IS TO BE BACKFILLED WITH APPROVED GRANULAR MATERIAL.

THE GROUND OVER THE WATER LINE SHALL REMAIN FREE OF TRASH CONTAINERS, TREES, SHRUBS AND OTHER VEGETATION (EXCLUDING GRASS). THERE SHALL BE NO MOUNDED EARTH OVER THE WATER LINE.

ALL MATERIALS & WORK SHALL MEET THE REQUIREMENTS SET FORTH IN THE APPLICABLE OHIO D.O.T. STANDARD CONSTRUCTION DRAWINGS AND SPECIFICATIONS.

STORM SEWERS

ALL CATCH BASINS AND INLETS SHALL BE AS APPROVED BY OHIO D.O.T. WITH POURED INVERTS.

ALL STORM SEWERS ARE TO BE REINFORCED CONCRETE PIPE, CLASS 3 MIN. AS SPECIFIED IN THE OHIO D.O.T. CONSTRUCTION AND MATERIAL SPECIFICATIONS (LATEST EDITION) UNLESS OTHERWISE NOTED ON PLANS. IF NOTED OTHERWISE, STORM SEWERS NOT WITHIN A DEDICATED RIGHT-OF-WAY, MATERIAL MAY BE PVC OR SMOOTH-LINED CORRUGATED POLYETHYLENE PIPE PER APPLICABLE OHIO D.O.T. SPECIFICATIONS.

PIPE BEDDING SHALL CONFORM TO ALL APPLICABLE OHIO D.O.T. SPECIFICATIONS FOR ALL STORM LINES.

STORM LATERALS SHALL BE PVC, TYPE ASTM D 3034, SDR 35, WITH RUBBER GASKET JOINTS, AND SHALL HAVE A MINIMUM 1% SLOPE.

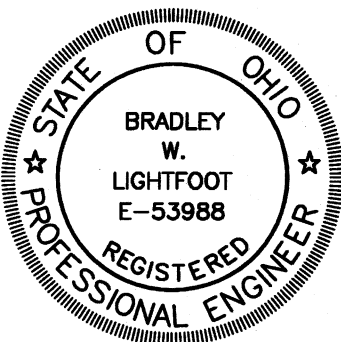
ALL STORM LATERAL CONNECTIONS TO THE LINE SHALL BE MADE WITH WYES, SADDLES, OR OTHER METHODS ACCEPTABLE TO THE PROJECT ENGINEER.



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①	06/22/09	A - ISSUED FOR BID
②	06/22/09	B - ISSUED FOR CONSTRUCTION
③	00/00/00	AAAAA
④	00/00/00	AAAAA
⑤	00/00/00	AAAAA
⑥	00/00/00	AAAAA

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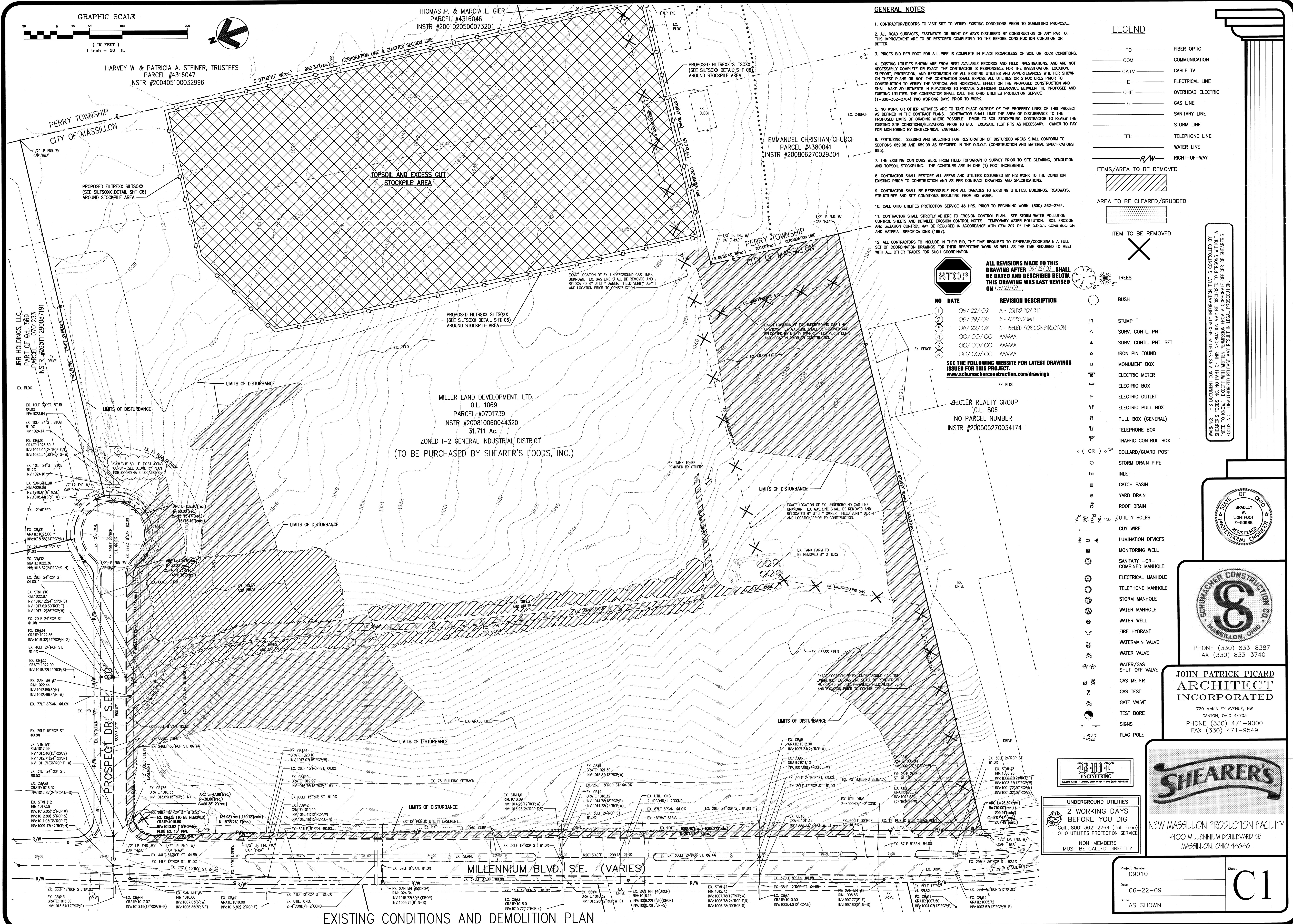
NEW MASSILLON PRODUCTION FACILITY  
4100 MILLENNIUM BOULEVARD SE  
MASSILLON, OHIO 44646

Project Number	09010
Date	06-22-09
Scale	AS SHOWN

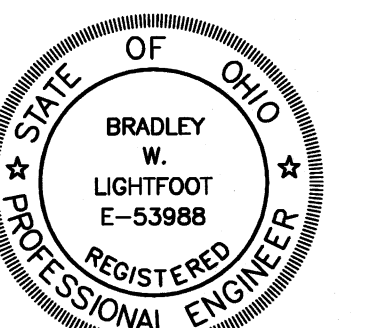
Sheet  
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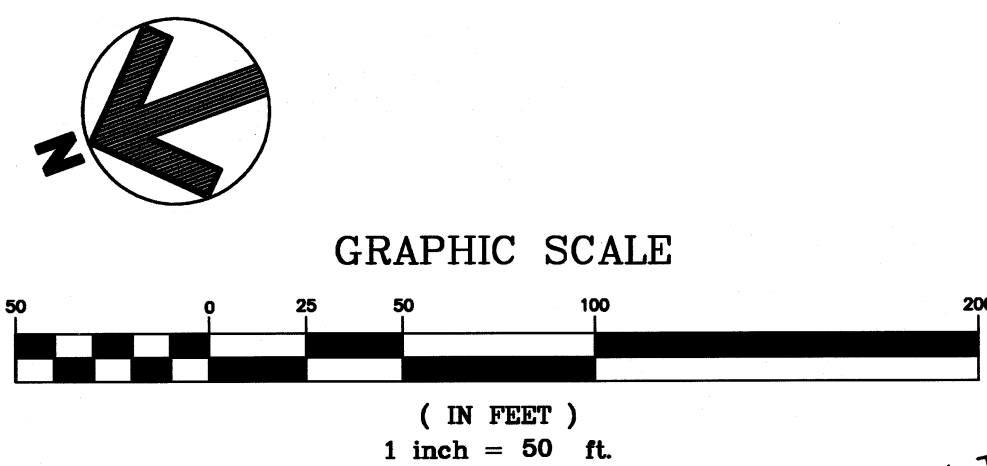
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NEW MASSILLON PRODUCTION FACILITY  
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Project Number 09010	Sheet <b>C1</b>
Date 06-22-09	
Scale AS SHOWN	





PERRY TOWNSHIP  
CITY OF MASSILLON

- LEGEND
- REC. - RECORD DISTANCE OR ANGLE  
CAL. - CALCULATED DISTANCE OR ANGLE  
OBS. - OBSERVED DISTANCE OR ANGLE  
T.P.O.B. - TRUE PLACE OF BEGINNING  
P.O.B. - PLACE OF BEGINNING  
MONUMENT BOX  
MONUMENT FOUND, SIZE & TYPE AS INDICATED  
5/8" REBAR, 30 INCHES IN LENGTH, WITH I.D. CAP & A SET  
P.K.(MASONRY) NAIL SET  
POWER POLE  
LIGHT POLE  
TELEPHONE POLE  
HYDRANT
- - CATCH BASIN  
⊕ - WATER METER  
⊕ - WATER VALVE  
X - FENCE  
○ - GAS VALVE  
○ - POST  
○ - HANDICAP SPACE  
○ - SIGN  
○ - RIGHT-OF-WAY  
○ - GAS LINE MARKER  
○ - MANHOLE  
○ - SANITARY MANHOLE  
○ - ELECTRIC BOX  
○ - CENTERLINE  
(XXXXXX) - RECORD BEARING & DISTANCE
- CONCRETE CURBING - SEE DETAILS ON SHT C6  
AGGREGATE "RODENT-RUN" ALONG ANY BLDG FACE NOT IN PAVED AREA SEE DETAIL SHT C6  
REGULAR DUTY CONCRETE PAVING OR  
HEAVY DUTY CONCRETE PAVEMENT SEE DETAIL SHT C6  
CONCRETE SIDEWALK OR CONC. PAD SEE DETAIL SHT C6  
STONE DRIVE / PAD, SEE DETAIL SHT. C6

### GEOMETRY NOTES

- POINTS SHOWN ON PLAN HAVE BEEN SET AT ALL FACE OF CURB PG, PT, CURVE MIDPOINT AND INTERSECTION LOCATIONS. POINTS SHOWN ON UTILITY STRUCTURES ARE THE CENTER OF THE STRUCTURE.
- ELEVATIONS SHOWN ARE FINISHED GRADE. BENCHMARK SHALL BE AS NOTED ON THE DRAWING.
- PAVEMENT MARKING SHALL BE INSTALLED PER ODOT 640. THE PARKING STALL LINES SHALL BE WHITE AND FOUR (4) INCHES WIDE. THE NON-PARKING AREAS ADJACENT TO THE ADA STALLS SHALL BE FOUR (4) INCH WIDE LINES ALIGNED 45 DEGREES DIAGONAL TO ADJACENT PARKING STALL LINES. ADA SYMBOL SHALL BE ODOT STANDARD PER ODOT 641.0
- COORDINATE FINAL LOCATIONS OF ALL UTILITY CONNECTIONS INTO BUILDING WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
- CONTRACTOR IS TO FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- SEE GRADING PLAN FOR SPOT ELEVATIONS.

### PARKING CALCULATIONS

REQUIREMENT: 1 SPACE PER 1 1/2 EMPLOYEES +5  
298 EMPLOYEES / 1 1/2 + 5 = 204 SPACES REQUIRED  
SPACES PROVIDED = 264

### SIGNAGE

- ALL SITE SIGNAGE WILL BE DEVELOPED AND SUBMITTED AT A LATER DATE FOR REVIEW AND APPROVAL. THE FOLLOWING IS A LIST OF SIGNAGE THAT WILL BE DEVELOPED:
- MONUMENT SIGN "SHEARER'S FOOD INC." (WITH STREET ADDRESS) AT FUTURE MAIN ENTRY ON MILLENNIUM BLVD.
  - "RAW MATERIAL SHIPPING AND RECEIVING/WASTEWATER TREATMENT ENTRY/EXIT" AT NORTH/EAST ENTRY OFF OF C PROSPECT DRIVE.
  - "SHIPPING AND RECEIVING ENTRY/EXIT" OFF C PROSPECT DRIVE.
  - ACCESSIBLE PARKING SIGNS AS REQUIRED
  - RESERVED PARKING SIGNS AS REQUIRED
  - STOP SIGNS AS REQUIRED

### BENCHMARK

EX. STIM#12  
RIM = 1017.59'  
N = 14926.19  
E = 14811.66

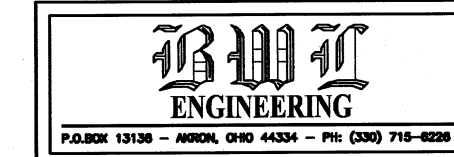
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101	14597.32	151	13791.78
102	14595.97	152	13784.06
103	14638.30	153	13843.94
104	14613.67	154	13892.97
105	14586.29	155	13904.32
106	14584.00	156	13894.97
107	14536.11	157	13824.95
108	14545.85	158	13786.08
109	14456.53	159	14042.02
110	14466.28	160	14018.22
111	14353.33	161	14020.75
112	14356.38	162	14080.99
113	14170.19	163	14517.54
114	14128.93	164	14532.41
115	14131.97	165	14564.69
116	14180.43	166	14584.24
117	14228.89	167	14596.33
118	14235.44	168	14628.67
119	14096.57	169	14628.51
120	14087.07	170	14501.35
121	14120.42	171	14575.23
122	14132.85	172	14544.14
123	14131.23	173	14534.15
124	14110.98	174	14537.68
125	14107.89	175	14525.80
126	14087.30	176	14002.05
127	14091.62	177	14008.21
128	14088.20	178	13929.80
129	14088.18	179	13870.37
130	14102.57	180	13811.13
131	14104.09	181	13762.21
132	14037.64	182	13733.90
133	14038.91	183	13732.13
134	13957.50	184	13746.89
135	13958.78	185	13761.36
136	13932.49	186	13811.34
137	13931.48	187	13859.39
138	13929.58	188	13901.60
139	13920.02	189	13925.43
140	13916.85	190	13943.92
141	13925.14	191	13866.68
142	13923.24	192	13769.65
143	14083.93		
144	14085.83		
145	14091.43		
146	14103.45		
147	14098.49		
148	14042.56		
149	13829.85		



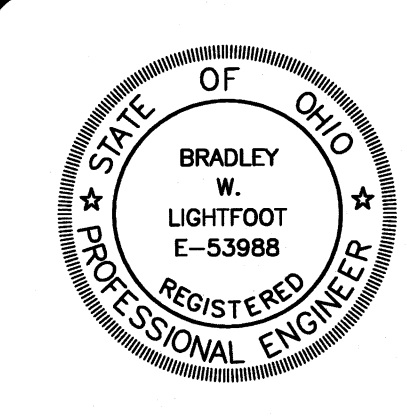
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NO	DATE	REVISION DESCRIPTION
1	05/22/09	A - ISSUED FOR BID
2	06/29/09	B - APPENDIX I
3	06/22/09	C - ISSUED FOR CONSTRUCTION
4	00/00/00	AAAA
5	00/00/00	AAAA
6	00/00/00	AAAA

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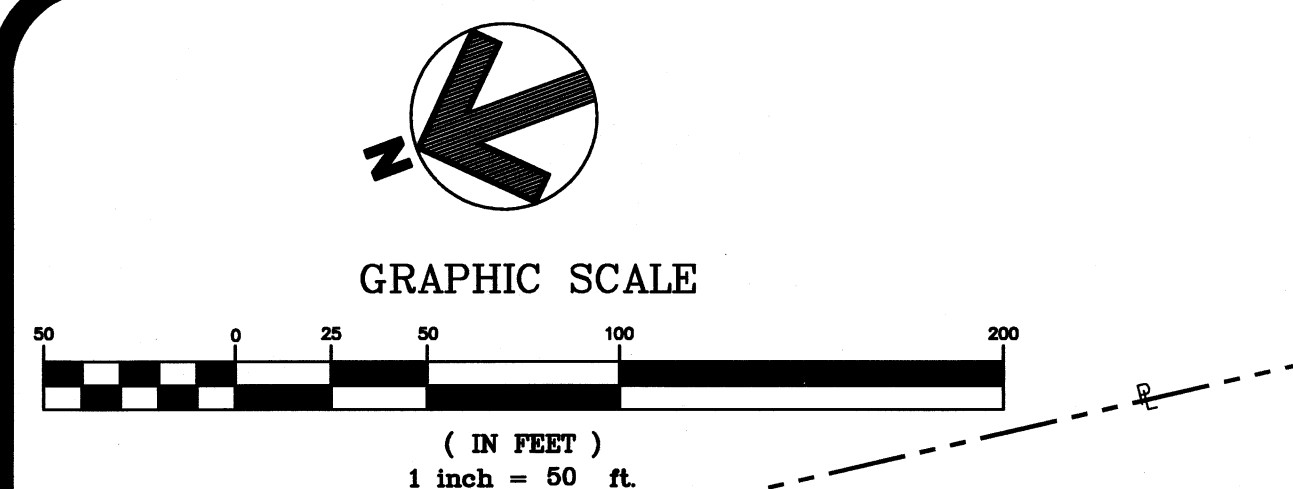
NEW MASSILLON PRODUCTION FACILITY  
4100 MILLENNIUM BOULEVARD SE  
MASSILLON, OHIO 44646

Project Number 09010	Sheet C2
Date 06-22-09	
Scale AS SHOWN	

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### GEOMETRY PLAN





UTILITY NOTES:

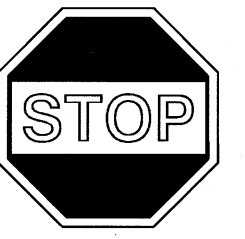
1. ALL STORM SEWER, SANITARY AND WATER LINES UNDER AREAS TO BE PAVED ARE TO BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL TO PAVEMENT SURFACE.
2. STORM SEWER CONDUITS SHALL BE:  
STORM SEWER PIPES 8" AND GREATER SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) - SMOOTH INTERIOR ADVANCED DRAINAGE SYSTEMS N-12, HANCOR INC. H-10, OR APPROVED EQUAL. SHALL CONFORM TO ODOT CDS ITEM 603 TYPE B, PIPE CULVERTS, SEWERS, DRAINS AND CONDUIT. SHALL ALSO CONFORM TO ODOT SUPPLEMENTAL SPECIFICATION 944.  
6" - PVC PIPE ASTM D-3034, TYPE PSM, SDR 35, AND SHALL CONFORM TO ODOT SPECIFICATION 707.19.  
6" ROOFDRAIN - PVC CORRUGATED DRAINAGE PIPE CONFORMING TO ODOT SPECIFICATION 707.19.
3. SITE CONTRACTOR SHALL BRING ALL PROPOSED UTILITIES TO WITHIN 5 FEET OF BUILDING FACE.
4. SEWER CONTRACTOR TO OBTAIN LICENSE AND SEWER TAP PERMITS FOR ALL CONNECTIONS PRIOR TO THE START OF WORK. SITE MAY REQUIRE PERMITS FROM BOTH CITY OF MASSILLON AND STARK COUNTY SEWER DISTRICT. CONTACT THE CITY OF MASSILLON ENGINEERING DEPARTMENT FOR PERMIT AND INSPECTION REQUIREMENTS.
5. CONTRACTOR SHALL VERIFY PENETRATION POINTS OF ALL UTILITIES INTO BLDG. WITH ARCH. PLANS PRIOR TO CONSTRUCTION.
6. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL GAS METER, GAS MANIFOLD, RISER KIT AND GAS PRESSURE REGULATOR. SEE DRAWING P-1.1.
7. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL WATER METER AND BACKFLOW PREVENTER. SEE DRAWING P1.1.

**LEGEND**

REC. - RECORD DISTANCE OR ANGLE	○ - CATCH BASIN	— - CONCRETE CURBING
CAL. - CALCULATED DISTANCE OR ANGLE	⊕ - WATER METER	— - PROPOSED WATER
OBS. - OBSERVED DISTANCE OR ANGLE	⊕ - GAS VALVE	— - PROPOSED STORM SEWER
T.P.O.B. - TRUE PLACE OF BEGINNING	⊕ - POST	— - PROPOSED SANITARY SEWER
P.O.B. - PLACE OF BEGINNING	⊕ - HANDICAP SPACE	
■ - MONUMENT BOX	⊕ - SIGN	
● - MONUMENT FOUND, SIZE & TYPE AS INDICATED	R/W - RIGHT-OF-WAY	
○ - 5/8" REBAR, 30 INCHES IN LENGTH, WITH 1/2" CAP & CA SET	⊕ - GAS LINE MARKER	
△ - P.K.(MASONRY) NAIL SET	⊕ - MANHOLE	
⊕ - POWER POLE	⊕ - SANITARY MANHOLE	
⊕ - LIGHT POLE	⊕ - ELECTRIC BOX	
⊕ - TELEPHONE POLE	⊕ - CENTERLINE	
⊕ - HYDRANT	⊕ - RECORD BEARING & DISTANCE	

**BENCHMARK**

EX. STMH#12  
N = 1017.59'  
E = 14811.66



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NO	DATE	REVISION DESCRIPTION
1	09/22/09	A - ISSUED FOR BID
2	09/29/09	B - APPENDUM 1
3	06/22/09	C - ISSUED FOR CONSTRUCTION
4	06/26/09	D - APPENDUM 2
5	00/00/00	AAAAA
6	00/00/00	AAAAA

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**SANITARY DATA**  
**PHASE 1**

STMH-1 (900T-2-B)	T/C = 1044.33
N 10" INV. = 1036.31	
SN-1, 400 L.F. 10" PVC @ 1.00%	
T/C = 1044.75	
E 8" INV. = 1032.31	
SN-2, 23.8 L.F. 10" PVC @ 1.00%	
T/C = 1045.00	
SE 10" INV. = 1031.99 (OUTSIDE DROP CONN.)	
NE 10" INV. = 1022.03	
SN-3, 158.9 L.F. 10" PVC @ 1.00%	
EXISTING SAN MH #8	
EXIST. T/C = 1029.68 (RETAIN EX. ELEV.)	
SW 10" INV. = 1020.44 (OUTSIDE DROP CONN.)	
EXIST. 6" N.E. INV. = 1018.61	
EXIST. 8" W-E INV. = 1018.44	
SN-4, 375.30 L.F. 8" PVC @ 1.15%	
SN-5, 16 L.F. 10" PVC @ 1.00%	

**STORM DATA**  
**PHASE 1**

ST-1 (900T-2-B)	T/C = 1039.07
W 15" INV. = 1039.35	
ST-1, 122 L.F. 15" HDPE @ 0.57%	
T/C = 1038.98	
E 15" INV. = 1034.66	
W 18" INV. = 1034.16	
ST-2, 122.63 L.F. 18" HDPE @ 0.65%	
T/C = 1039.30	
STMH-2 (900T-STD MANHOLE)	
T/C = 1039.30	
E 18" INV. = 1033.36	
N 24" INV. = 1033.38	
W 30" INV. = 1032.36	
ST-3, 59.23 L.F. 30" HDPE @ 0.49%	
T/C = 1038.00	
STMH-2 (900T-STD MANHOLE)	
T/C = 1038.00	
E 30" INV. = 1032.07	
SW 12" INV. = 1032.07	
ST-4, 148.12 L.F. 30" HDPE @ 2.19%	
T/C = 1033.83	
E 30" INV. = 1028.83	
NW 38" INV. = 1028.33	
ST-5, 56.87 L.F. 36" HDPE @ 2.46%	
T/C = 1032.43	
SE 36" INV. = 1026.93	
NE 12" INV. = 1028.93	
NW 36" INV. = 1008.33	
ST-6, 65.78 L.F. 36" HDPE @ 2.02%	
T/C = 1032.43	
H-1 (900T HW-2.1)	
36" INV. = 1008.00	
I-5 (900T-2-B)	
T/C = 1041.46	
SW 45" INV. = 1037.46	
ST-8, 115 L.F. 15" HDPE @ 0.50%	
T/C = 1043.68	
NE 15" INV. = 1036.88	
N 24" INV. = 1035.88	
ST-9, 338.38 L.F. 24" HDPE @ 0.50%	
T/C = 1042.80	
E 24" INV. = 1034.19	
S 24" INV. = 1034.19	
ST-7, 163.55 L.F. 24" HDPE @ 0.50%	
T/C = 1041.85	
N 12" INV. = 1037.85	
ST-10, 115 L.F. 12" HDPE @ 1.00%	
T/C = 1040.70	
E 12" INV. = 1034.19	
S 12" INV. = 1034.19	
ST-12, 63.5 L.F. 12" HDPE @ 0.49%	
T/C = 1037.95	
E 12" INV. = 1033.69	
S 15" INV. = 1033.69	
W 24" INV. = 1032.69	
ST-17, 130.1 L.F. 12" HDPE @ 0.28%	
T/C = 1037.95	
E 12" INV. = 1033.69	
S 15" INV. = 1033.69	
W 24" INV. = 1032.69	
STMH-5 (900T STD MANHOLE)	
T/C = 1021.04	
E 12" INV. = 1012.64	
N 18" INV. = 1017.04	
S 24" INV. = 1011.64	
ST-18, 143.87 L.F. 24" HDPE @ 0.30%	
T/C = 1025.44	
N 24" INV. = 1025.44	
E 18" INV. = 1020.00	
S 36" INV. = 1010.21	
ST-19, 311.44 L.F. 36" HDPE @ 0.30%	
T/C = 1023.43	
N 36" INV. = 1009.27	
ST-20, 162.49 L.F. 36" HDPE @ 0.30%	
T/C = 1023.43	
N 36" INV. = 1008.79	
ST-21, 52.69 L.F. 36" HDPE @ 1.50%	
T/C = 1027.70	
E 36" INV. = 1027.70	
I-25 (900T 2-B)	
T/C = 1030.29	
E 12" INV. = 1027.70	
ST-36, 44.8 L.F. 12" HDPE @ 1.57%	
T/C = 1033.50	
E 12" INV. = 1027.00	
OS-1 (900T MODIFIED 2-B)	
T/C = 1033.50	
E 12" WIDE WEIR INV. = 1009.50	
E 3" INV. = 1008.00	
W 24" INV. = 1008.00	

**STORM DATA**  
**PHASE 1**

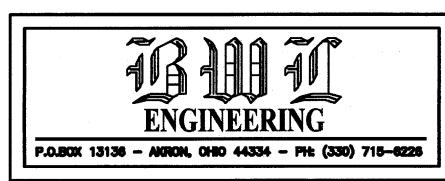
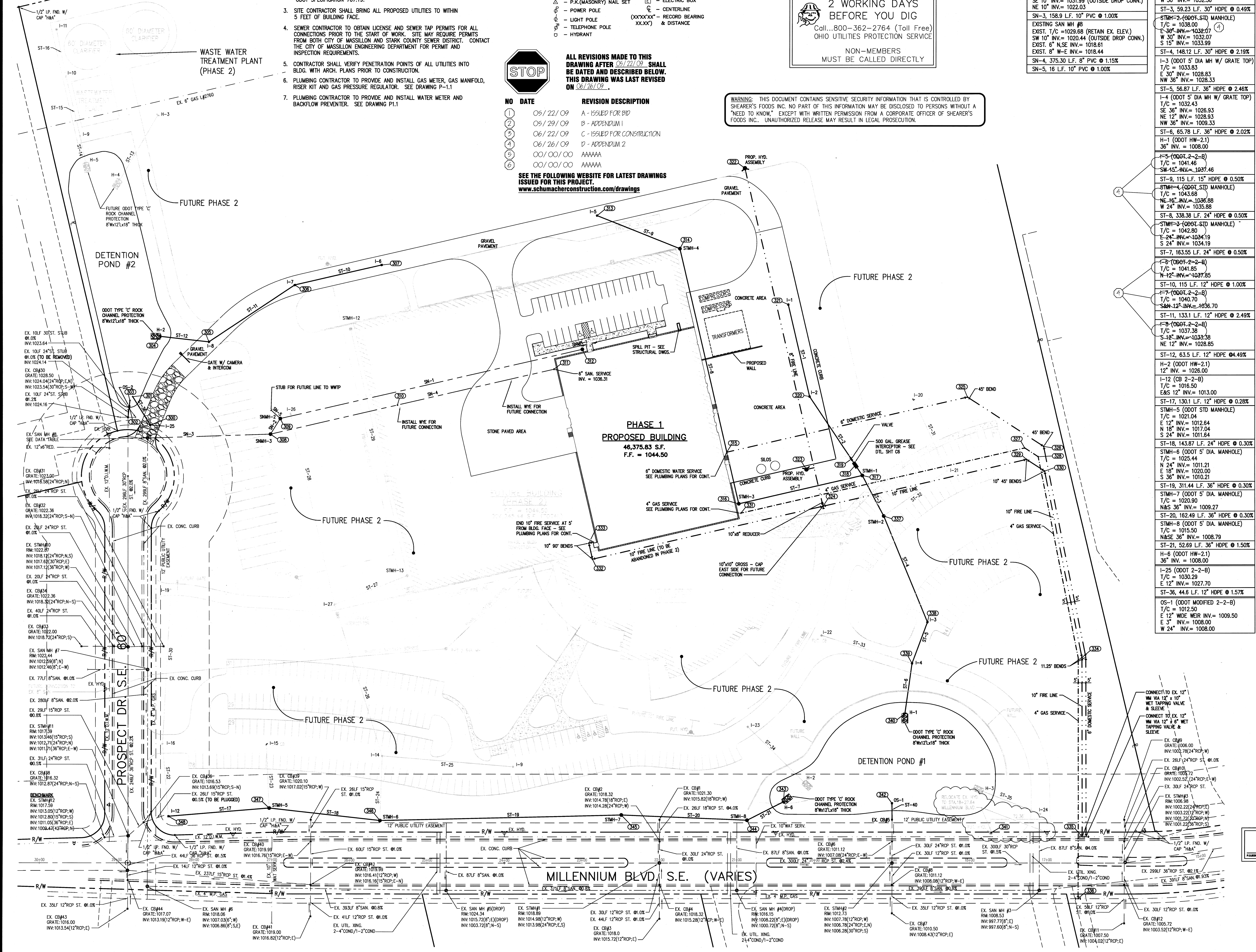
ST-40, 20.47 L.F. 24" HDPE @ 3.22%	
EX. CB #5	
EX. W 24" INV. = 1007.34	
PROF. E 24" INV. = 1007.34	
(CORE DRILL PROP. 24" E)	
OS-2 (900T MODIFIED 2-B)	
T/C = 1012.50	
E 12" WIDE WEIR INV. = 1009.50	
E 3" INV. = 1008.00	
W 24" INV. = 1008.00	
ST-41, 20.47 L.F. 24" HDPE @ 3.22%	
EX. CB #30	
EX. N.E. 24" INV. = 1024.04	
EX. S.W. 30" INV. = 1023.54	
PROP. E 24" INV. = 1024.00	
(CORE DRILL PROP. 24" E)	

**STORM DATA**  
**PHASE 2**

I-20 (900T 2-B)	
T/C = 1040.50	
W 12" INV. = 1037.00	
ST-31, 101.85 L.F. 12" HDPE @ 0.50%	
T/C = 1040.50	
E 12" INV. = 1036.49	
N 15" INV. = 1034.49	
ST-32, 100.32 L.F. 15" HDPE @ 0.50%	
T/C = 1040.45	
E 15" INV. = 1036.49	
W 12" INV. = 1037.00	
I-21 (900T 2-B)	
T/C = 1040.50	
E 12" INV. = 1036.49	
N 15" INV. = 1034.49	
ST-33, 122.00 L.F. 12" HDPE @ 6.16%	
T/C = 1040.50	
E 12" INV. = 1036.49	
W 12" INV. = 1037.00	
I-23 (900T MH W/ GRATE TOP)	
T/C = 1031.01	
SW 12" INV. = 1031.01	
ST-34, 101.91 L.F. 12" HDPE @ 1.00%	
T/C = 1031.01	
E 12" INV. = 1031.01	
W 12" INV. = 1031.01	
STMH-12 (900T STD MANHOLE)	
T/C = 1039.90	
E 12" INV. = 1039.90	
W 18" INV. = 1035.90	
ST-29, 326.71 L.F. 18" HDPE @ 0.30%	
T/C = 1039.90	
E 18" INV. = 1034.92	
N 24" INV. = 1034.92	
ST-27, 101.05 L.F. 18" HDPE @ 1.25%	
T/C = 1039.90	
E 18" INV. = 1034.92	
W 18" INV. = 1035.90	
ST-25, 169.57 L.F. 12" HDPE @ 3.46%	
T/C = 1039.90	
E 12" INV. = 1034.92	
W 12" INV. = 1035.90	
I-9 (900T 2-B)	
T/C = 1039.90	
E 12" INV. = 1034.92	
W 12" INV. = 1035.90	
ST-30, 199.96 L.F. 12" HDPE @ 2.82%	
T/C = 1039.90	
E 12" INV. = 1034.92	
W 12" INV. = 1035.90	
I-16 (900T 2-B)	
T/C = 1033.50	
E 12" INV. = 1027.00	
W 12" INV. = 1027.00	
ST-22, 93.9 L.F. 12" HDPE @ 5.70%	
T/C = 1033.50	
E 12" INV. = 1027.00	
W 12" INV. = 1027.00	
H-3 (900T HW-2.1)	
T/C = 1033.50	
E 12" INV. = 1027.00	
W 12" INV. = 1027.00	
I-9 (900T 2-B)	
T/C = 1033.50	
E 12" INV. = 1027.00	
W 12" INV. = 1027.00	
ST-14, 35 L.F. 12" HDPE @ 0.93%	
T/C = 1033.50	
E 12" INV. = 1027.00	
W 12" INV. = 1027.00	

Point Table

Point	Nothing	Existing
300	14601.44	15416.66
301	14601.04	15456.94
302	14618.49	15446.74
303	14615.05	15453.59
304	14549.72	15517.76
305	14492.97	15489.31
306	14363.46	15520.04
307	14249.39	15505.46
308	14459.72	15349.91
309	14440.89	15364.48
310	14292.95	15328.60
311	14087.45	15302.34
312	14044.11	15313.77
313	13966.29	15469.28
314	13880.73	15392.19
315	13914.96	15174.35
316	13923.62	15056.54
317	13761.39	15035.80
318	13765.24	15051.40
319	13767.37	15060.66
320	13790.06	15155.03
321	13774.59	15276.05
322	13766.03	15460.83
323	13826.39	15067.93
324	13822.87	15016.05
325	13599.32	15084.01
326	13528.84	14989.95
327	13552.59	14996.63
328	13540.06	14979.91
329	13555.41	14981.87
330	13538.70	14959.58
331	13925.19	15044.25
332	14125.64	15054.75
333	14122.95	15075.85
334	13577.02	14717.04
335	13657.11	14499.66
336	13689.53	14426.38
337	13753.69	14077.08
338	13748.53	14829.05
339	13785.59	14785.91
340	13816.90	14728.08
341	13765.90	14545.11
342	13872.46	14625.26
343	14031.15	14675.30
344	14055.40	14669.21
345	14205.44	14731.80
346	14500.01	14832.61
347	14528.69	14897.18
348	14754.03	14931.97



**STATE OF OHIO**  
**BRADLEY**  
**REGISTERED PROFESSIONAL ENGINEER**

**JOHN PATRICK PICARD**  
**ARCHITECT**  
**INCORPORATED**

720 McKinley Avenue, NW  
Canton, Ohio 44703  
PHONE (330) 471-9000  
FAX (330) 471-9549

**SHEARER'S**

NEW MASSILLON PRODUCTION FACILITY  
4100 MILLENNIUM BOULEVARD SE  
MASSILLON, OHIO 44646

Project Number	09010	Sheet	C3
Date	06-26-09		
Scale	AS SHOWN		

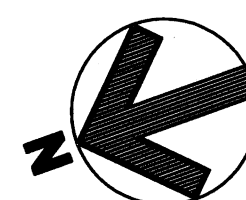


THE CONTRACTOR SHALL PREVENT AND/OR REDUCE AND CONTROL SOIL EROSION RESULTING FROM THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL STABILIZE, REVEGETATE, SEEDING, SOIL CHEMICALS, PROTECTION AROUND THE CATCH BASINS, SEDIMENT CONTROL CONSTRUCTION ENTRANCE(S), ETC. WILL BE REQUIRED. SEDIMENT CONTROL STRUCTURES/DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL "RAINWATER AND LAND DEVELOPMENT" OHIO'S STANDARDS FOR STORMWATER MANAGEMENT (LAND DEVELOPMENT AND URBAN STREAM PROTECTION). SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUED INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS SET FORTH ON THE APPROVED STORMWATER POLLUTION PREVENTION PLAN IF APPLICABLE, OR AS DETAILED ON THE CONSTRUCTION PLANS AS SPECIFIED BY THE CITY OF MASSILLON.



ION A A

MATCHLINE - SEE SHEET C5



SEE SHEET C1 FOR TOPSOIL  
STOCKPILE AND SPOIL MOUND AREA  
LOCATION

**UNDERGROUND UTILITIES**

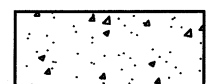




**2 WORKING DAYS  
BEFORE YOU DIG**

Call...800-362-2764 (Toll Free)  
OHIO UTILITIES PROTECTION SERVICE

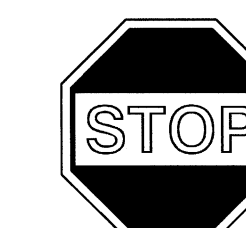
**NON-MEMBERS  
MUST BE CALLED DIRECTLY**

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP, EFFECTIVE DATE MARCH 2, 1979 THE SUBJECT PROPERTY IS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD PLAIN, MINIMAL FLOODING.

EX. STMH#12  
RIM.=1017.59'  
N = 14926.19  
E = 14811.66

- # LEGEND
- |  |   |   |
|--|---|---|
| REC. - RECORD DISTANCE OR ANGLE                        | R/W - RIGHT-OF-WAY  | — SIGN  |
| CAL. - CALCULATED DISTANCE OR ANGLE                    | — GAS LINE MARKER   | — RIGHT-OF-WAY  |
| OBS. - OBSERVED DISTANCE OR ANGLE                      | ○ - MANHOLE   | ○ - SANITARY MANHOLE  |
| T.P.O.B. - TRUE PLACE OF BEGINNING                     | [E] - ELECTRIC BOX  | — CENTERLINE  |
| P.O.B. - PLACE OF BEGINNING                            | C - RECORD BEARING & DISTANCE   | (XXX)°(XX'XX")  |
| ■ - MONUMENT BOX                                       |  | = CONCRETE SIDEWALK SEE DETAIL SHT 6  |
| ● - MONUMENT FOUND, SIZE & TYPE AS INDICATED.          | — 700 —   | = EXISTING CONTOURS   |
| ○ - 5/8" REBAR, 30 INCHES IN LENGTH, WITH I.D. CAP SET |  | = PROPOSED CONTOURS   |
| △ - P.K.(MASONRY) NAIL SET                             | — 700 —   | = DRAINAGE FLOW   |
| ⊕ - POWER POLE   |  | = SILT SOXX - SEE DETAIL SHT C6   |
| ⊙ - LIGHT POLE   |  | = PROPOSED INLET PROTECTION   |
| ☎ - TELEPHONE POLE                                     | —   | = PROPOSED ROCK CHECK DAM   |
| ⊖ - HYDRANT  |  | = PROP. CEMENT TRUCK WASHOUT, DUMPSTER & VEHICLE FUELING AREA. DUGOUT SHALL BE 6" DEEP, LINED WITH PLASTIC LINER AND HAVE A 3" THICK STONE LAYER. LINER AND STONE SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION. AREA SHALL REMAIN CLEARED AND MAINTAINED DURING CONSTRUCTION. |
| ⊙ - CATCH BASIN  |   |   |
| ⊖ - WATER METER  |   |   |
| ⊖ - WATER VALVE  |   |   |
| — - - - - FENCE  |   |   |
| GV -   |   |   |
| — - - - - GAS VALVE                                    |   |   |
| ⊙ - POST   |   |   |
| ⊙ - HANDICAP SPACE                                     |   |   |

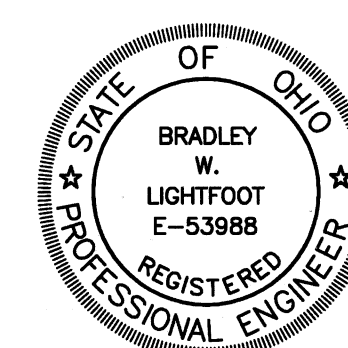
1. THE BOLD PROPOSED CONTOURS AND SHOWN ARE FINISHED GRADE IN PAVED AREAS AND IN LAWN AREAS. CONTOURS ARE IN ONE (1) FOOT INCREMENTS.
2. LIGHT, DASHED CONTOURS ARE EXISTING GRADE AND ARE IN ONE (1) FOOT INCREMENTS.
3. GRADES SHALL BE STRAIGHT LINE BETWEEN ELEVATIONS AND CONTOURS SHOWN.
4. ALL EXISTING UNDERGROUND PAVEMENTS AND STRUCTURES SHALL BE COMPACTED WITH SELECT SITE MATERIAL PER DOT SPEC. 203.
5. ALL AREAS AFFECTED BY SITE WORK, EXCLUDING PAVED AND STRUCTURE AREAS, SHALL BE SEEDED AND MULCHED PER DOT SPEC. 659.
6. CONTRACTOR SHALL STRIP ANY TOPSOIL AND STOCKPILE PRIOR TO SITE GRADING OPERATION. CONTRACTOR SHALL PLACE STOCKPILED TOPSOIL TO A THICKNESS OF SIX (6) INCHES PER DOT SPEC. 653 IN ALL NON-PAVED AND BUILDING AREAS.
7. ALL SLOPES GREATER THAN 3:1 SHALL BE SEEDING AND MULCHED PER DOT ITEM 667 SEEDING AND JUTE MATTING.
8. HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
9. SEE STRUCTURAL DWGS FOR SPEC'S AND DETAILS FOR WALLS.



**ALL REVISIONS MADE TO THIS  
DRAWING AFTER 06/22/09 SHALL  
BE DATED AND DESCRIBED BELOW.  
THIS DRAWING WAS LAST REVISED  
ON 06/26/09.**

NO	DATE	REVISION DESCRIPTION
①	05/22/09	A - ISSUED FOR BID
②	05/29/09	B - ADDENDUM 1
③	06/22/09	C - ISSUED FOR CONSTRUCTION
④	06/26/09	D - ADDENDUM 2
⑤	00/00/00	AAAAAA
⑥	00/00/00	AAAAAA

SEE THE FOLLOWING WEBSITE FOR LATEST DRAWINGS  
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NEW MASSILLON PRODUCTION FACILITY  
4100 MILLENNIUM BOULEVARD SE  
MASSILLON, OHIO 44646

Project Number  
09010

Date  
06-26-09

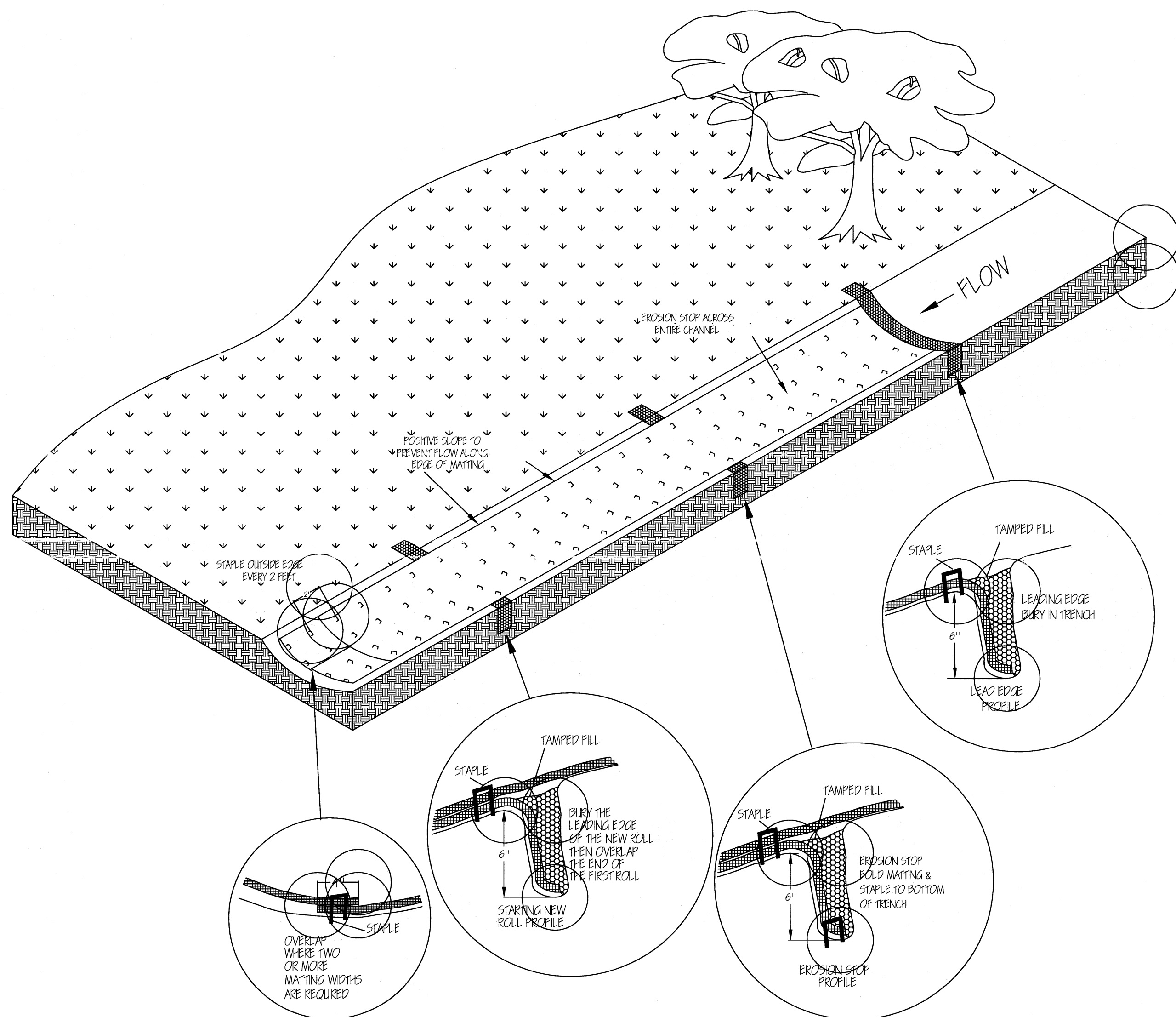
Scale  
AS SHOWN

Sheet  
C4

PHASE 1 GRADING AND SWP3 PLAN

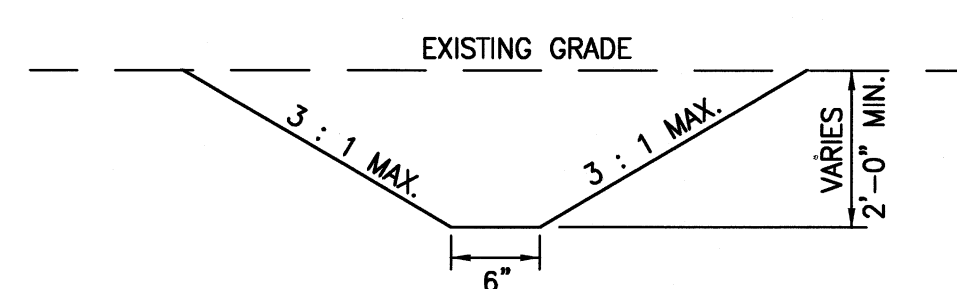
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SWALE MATTING DETAIL

N.T.S.



SWALE TYPICAL SECTION

N.T.S.

NOTE:

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FLOOD ZONE

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP, EFFECTIVE DATE MARCH 2, 1979 THE SUBJECT PROPERTY IS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD PLAIN, MINIMAL FLOODING.

BENCHMARK

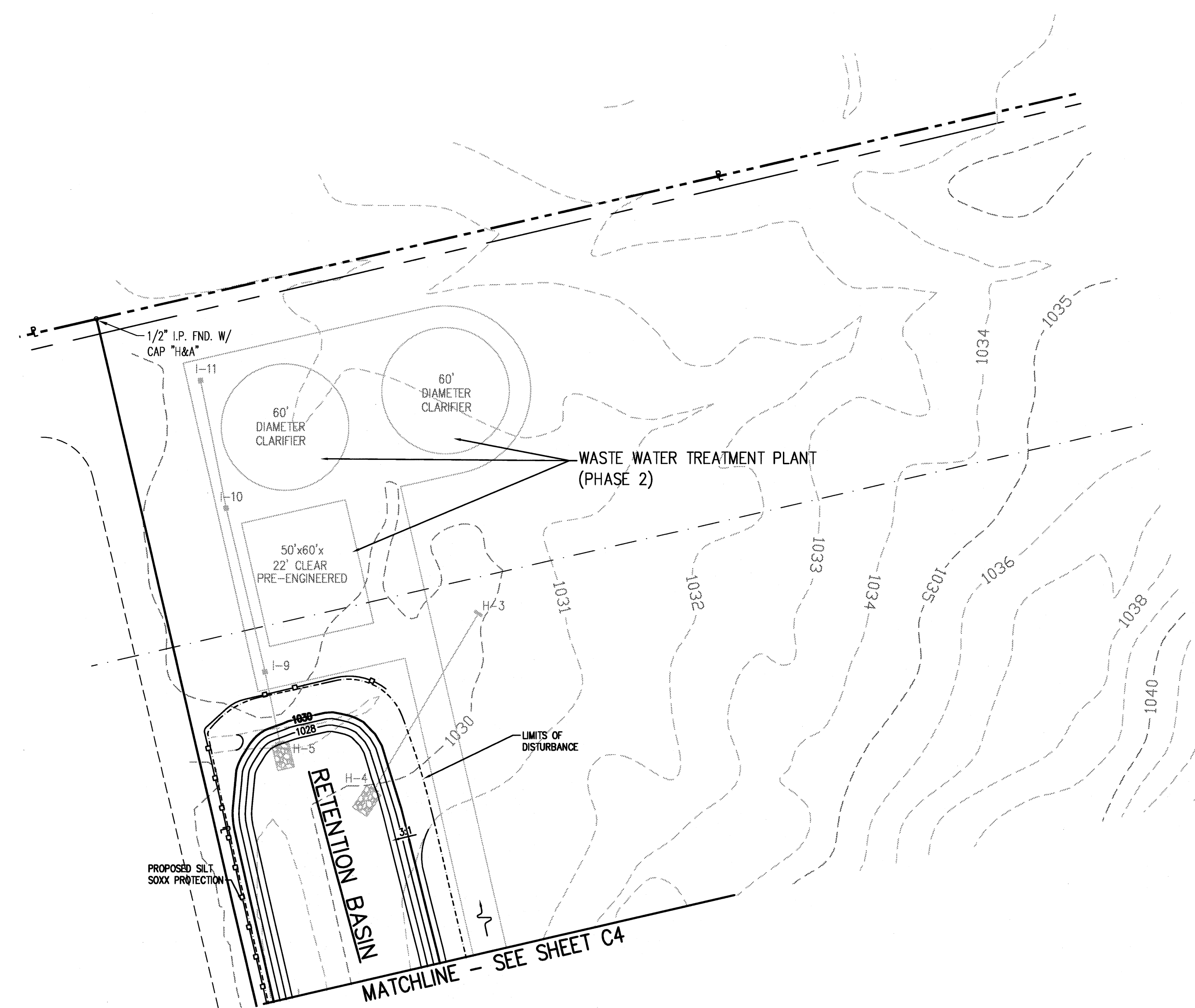
EX. STM#12  
RIM=1017.59'  
N = 14926.19  
E = 14811.66

LEGEND

REC. - RECORD DISTANCE OR ANGLE	⊙ - CATCH BASIN	--- 700 ---	= EXISTING CONTOURS
CAL. - CALCULATED DISTANCE OR ANGLE	⊙ - WATER METER	--- 700 ---	= PROPOSED CONTOURS
OBS. - OBSERVED DISTANCE OR ANGLE	⊙ - WATER VALVE	---	= DRAINAGE FLOW
T.P.O.B. - TRUE PLACE OF BEGINNING	⊙ - GAS VALVE	---	= SILT SOCK - SEE DETAIL SHT C6
P.O.B. - PLACE OF BEGINNING	⊙ - POST	---	= PROPOSED INLET PROTECTION
■ - MONUMENT BOX	⊙ - HANDICAP SPACE		
● - MONUMENT FOUND, SIZE & TYPE AS INDICATED	⊙ - SIGN		
○ - 5/8" REBAR, 30 INCHES IN LENGTH, WITH I.D. CAP OR A SET	⊙ - RIGHT-OF-WAY		
△ - P.K.(MASONRY) NAIL SET	⊙ - GAS LINE MARKER		
⊙ - POWER POLE	⊙ - MANHOLE		
⊙ - LIGHT POLE	⊙ - SANITARY MANHOLE		
⊙ - TELEPHONE POLE	⊙ - ELECTRIC BOX		
⊙ - HYDRANT	⊙ - CENTERLINE		
	(XXXX'XXX' - RECORD BEARING & DISTANCE		

GRADING NOTES

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- HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
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# FLOOD ZONE

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# BENCHMARK

EX. STMH#12  
RM = 1017.59'  
N = 14926.19  
E = 14811.66

# UNDERGROUND UTILITIES

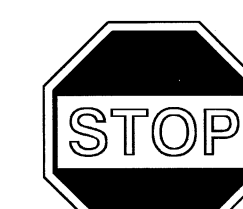
2 WORKING DAYS  
BEFORE YOU DIG  
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OHIO UTILITIES PROTECTION SERVICE  
NON-MEMBERS  
MUST BE CALLED DIRECTLY

# LEGEND

- |  |   |   |
|--|---|---|
| REC. - RECORD DISTANCE OR ANGLE                            | ○ - CATCH BASIN                         | - CONCRETE CURBING  |
| CAL. - CALCULATED DISTANCE OR ANGLE                        | ○ - WATER METER                         | - CONCRETE SIDEWALK SEE DETAIL SHT C6   |
| OBS. - OBSERVED DISTANCE OR ANGLE                          | ○ - WATER VALVE                         | - EXISTING CONTOURS   |
| T.P.O.B. - TRUE PLACE OF BEGINNING                         | ○ - GAS VALVE                           | - PROPOSED CONTOURS   |
| P.O.B. - PLACE OF BEGINNING                                | ○ - POST                                | - DRAINAGE FLOW   |
| ■ - MONUMENT BOX   | ○ - HANDICAP SPACE                      | - SILT SOXX - SEE DETAIL SHT C6   |
| ● - MONUMENT FOUND, SIZE & TYPE AS INDICATED               | ○ - GAS LINE MARKER                     | - PROPOSED INLET PROTECTION   |
| ○ - 3/8" REBAR, 30 INCHES IN LENGTH, WITH I.D. CAP & A SET | ○ - MANHOLE                             | - PROP. CEMENT TRUCK WASHOUT, DUMPSTER & VEHICLE FUELING AREA. DUGOUT SHALL BE 8" DEEP, LINED WITH PLASTIC LINER AND HAVE A 3" THICK STONE LAYER. LINER AND STONE SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION. AREA SHALL REMAIN CLEANED AND MAINTAINED DURING CONSTRUCTION. |
| △ - P.K.(MASONRY) NAIL SET                                 | ○ - SANITARY MANHOLE                    |   |
| ○ - POWER POLE   | ○ - ELECTRIC BOX                        |   |
| ○ - LIGHT POLE   | ○ - CENTERLINE                          |   |
| ○ - TELEPHONE POLE   | (XXX'XX'XX' - RECORD BEARING & DISTANCE |   |
| ○ - HYDRANT  |   |   |

# GRADING NOTES

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- SEE STRUCTURAL DWGS FOR SPEC'S AND DETAILS FOR WALLS.

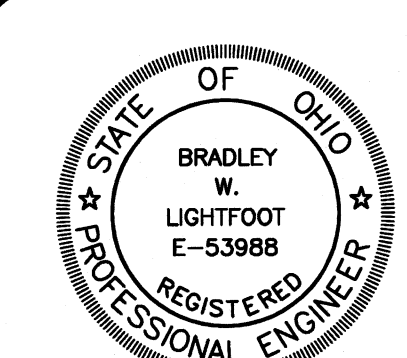


ALL REVISIONS MADE TO THIS DRAWING AFTER 05/22/09 SHALL BE DATED AND DESCRIBED BELOW. THIS DRAWING WAS LAST REVISED ON 05/29/09.

NO	DATE	REVISION DESCRIPTION
1	05/22/09	A - ISSUED FOR BID
2	05/29/09	B - ADDENDUM I
3	06/22/09	C - ISSUED FOR CONSTRUCTION
4	00/00/00	AAAAA
5	00/00/00	AAAAA
6	00/00/00	AAAAA

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[www.schumacherconstruction.com/drawings](http://www.schumacherconstruction.com/drawings)

DRAWING FOR REFERENCE ONLY



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FAX (330) 833-3740

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ARCHITECT  
INCORPORATED

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CANTON, OHIO 44703  
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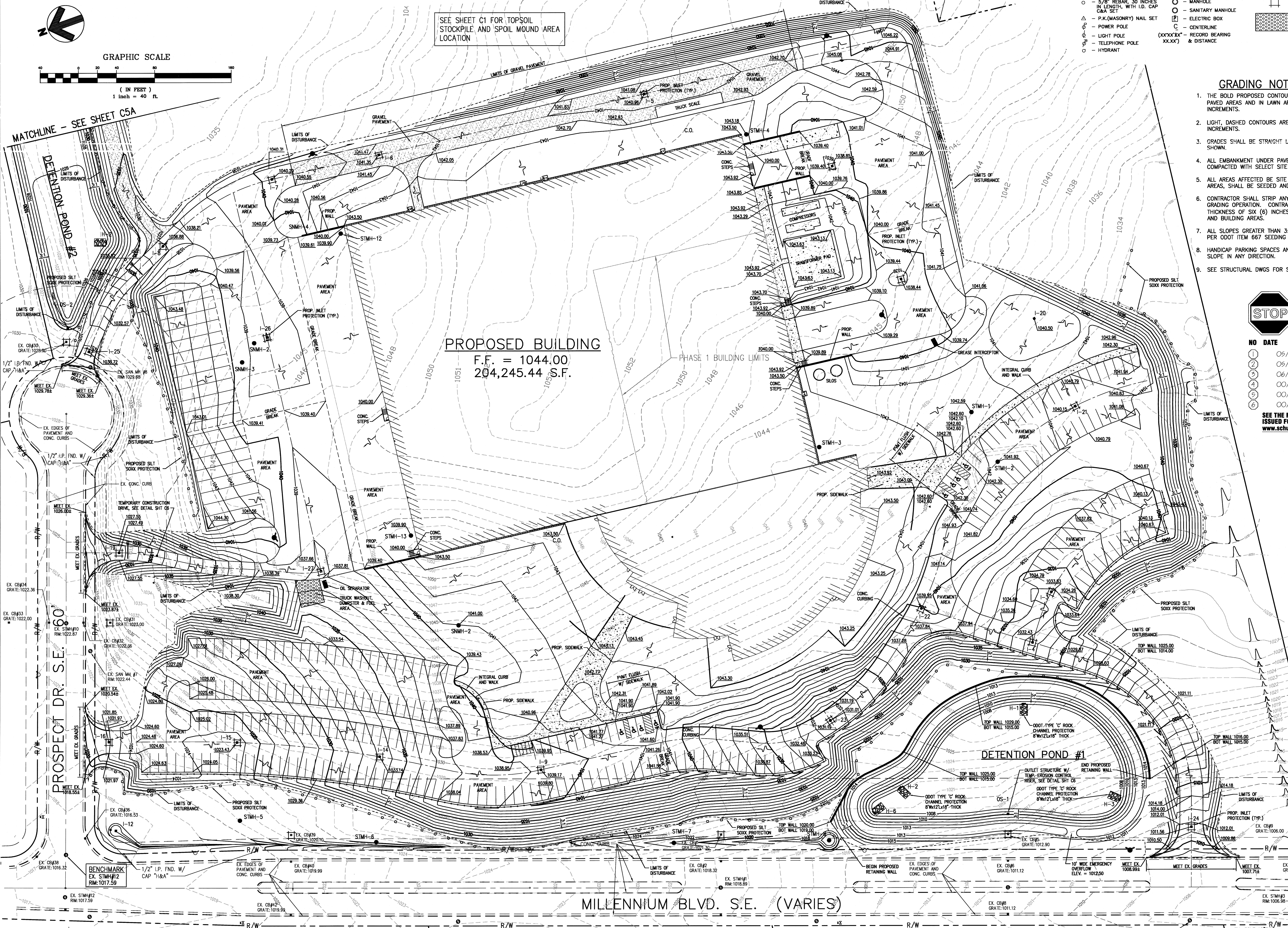


NEW MASSILLON PRODUCTION FACILITY  
4100 MILLENNIUM BOULEVARD SE  
MASSILLON, OHIO 44646

Project Number: 09010  
Date: 06-22-09  
Scale: AS SHOWN  
Sheet: C4A

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# PHASE 2 GRADING AND SWP3 PLAN





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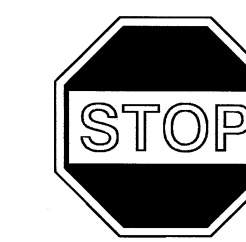
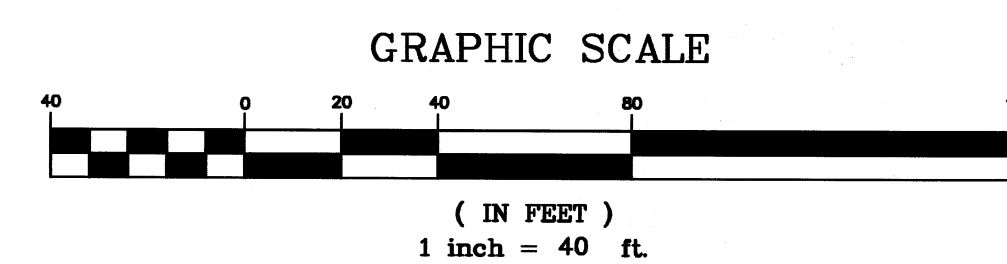
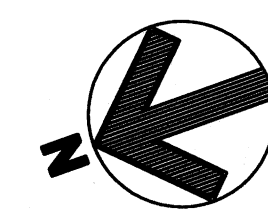
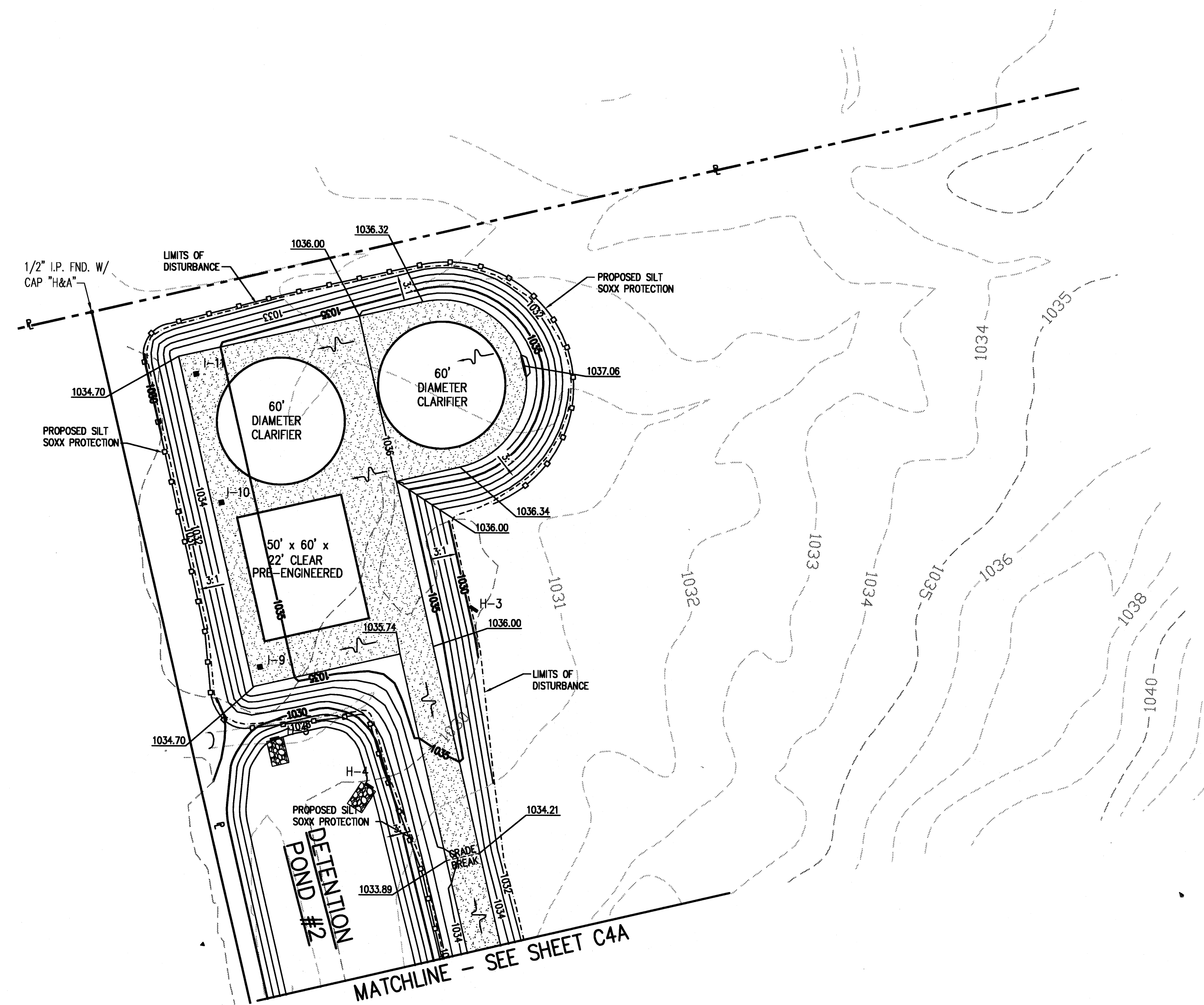
## BENCHMARK

EX. STM#12  
RIM=1017.59'  
N = 14926.19  
E = 14811.66

LEGEND			
REC. - RECORD DISTANCE OR ANGLE	III - CATCH BASIN	700 - EXISTING CONTOURS	
CAL. - CALCULATED DISTANCE OR ANGLE	W - WATER METER	700 - PROPOSED CONTOURS	
OBS. - OBSERVED DISTANCE OR ANGLE	X - FENCE	- - - DRAINAGE FLOW	
T.P.O.B. - TRUE PLACE OF BEGINNING	W - GAS VALVE	□ - SILT SOXX - SEE DETAIL SHT C6	
P.O.B. - PLACE OF BEGINNING	I - POST	- - - PROPOSED INLET PROTECTION	
■ - MONUMENT BOX	W - HANDICAP SPACE		
■ - MONUMENT FOUND, SIZE & TYPE AS INDICATED.	W - SIGN		
○ - 5/8" REBAR, 30 INCHES IN LENGTH, WITH I.D. CAP & A SET	R/W - RIGHT-OF-WAY		
△ - P.K.(MASONRY) NAIL SET	W - GAS LINE MARKER		
⊕ - POWER POLE	○ - MANHOLE		
⊕ - LIGHT POLE	○ - SANITARY MANHOLE		
⊕ - TELEPHONE POLE	⊕ - ELECTRIC BOX		
○ - HYDRANT	C - CENTERLINE		
	XXX'XXX' - RECORD BEARING & DISTANCE		

## GRADING NOTES

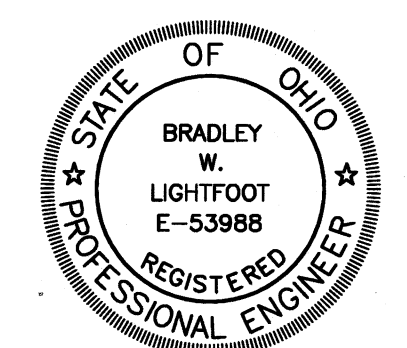
- THE BOLD PROPOSED CONTOURS AND SHOWN ARE FINISHED GRADE IN PAVED AREAS AND IN LAWN AREAS. CONTOURS ARE IN ONE (1) FOOT INCREMENTS.
- LIGHT, DASHED CONTOURS ARE EXISTING GRADE AND ARE IN ONE (1) FOOT INCREMENTS.
- GRADES SHALL BE STRAIGHT LINE BETWEEN ELEVATIONS AND CONTOURS SHOWN.
- ALL EMBANKMENT UNDER PAVEMENTS AND STRUCTURES SHALL BE COMPACTED WITH SELECT SITE MATERIAL PER ODOT SPEC. 203.
- ALL AREAS AFFECTED BY SITE WORK, EXCLUDING PAVED AND STRUCTURE AREAS, SHALL BE SEEDED AND MULCHED PER ODOT SPEC. 659.
- CONTRACTOR SHALL STRIP ANY TOPSOIL AND STOCKPILE PRIOR TO SITE GRADING OPERATION. CONTRACTOR SHALL PLACE STOCKPILED TOPSOIL TO A THICKNESS OF SIX (6) INCHES PER ODOT SPEC. 653 IN ALL NON-PAVING AND BUILDING AREAS.
- ALL SLOPES GREATER THAN 3:1 SHALL BE SEEDED AND MULCHED PER ODOT ITEM 667 SEEDING AND JUTE MATTING.
- HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
- SEE STRUCTURAL DWGS FOR SPEC'S AND DETAILS FOR WALLS.



ALL REVISIONS MADE TO THIS DRAWING AFTER 06/22/09 SHALL BE DATED AND DESCRIBED BELOW. THIS DRAWING WAS LAST REVISED ON 07/19/09.

NO	DATE	REVISION DESCRIPTION
1	05/22/09	A - ISSUED FOR BID
2	05/29/09	B - ADDENDUM I
3	06/22/09	C - ISSUED FOR CONSTRUCTION
4	00/00/00	AAAAA
5	00/00/00	AAAAA
6	00/00/00	AAAAA

SEE THE FOLLOWING WEBSITE FOR LATEST DRAWINGS ISSUED FOR THIS PROJECT.  
[www.schumacherconstruction.com/drawings](http://www.schumacherconstruction.com/drawings)



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ARCHITECT  
INCORPORATED

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FAX (330) 471-9549



NEW MASSILLON PRODUCTION FACILITY  
4100 MILLENNIUM BOULEVARD SE  
MASSILLON, OHIO 44646

Project Number 09010	Sheet C5A
Date 06-22-09	
Scale AS SHOWN	

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NON-MEMBERS MUST BE CALLED DIRECTLY

## PHASE 2 GRADING AND SWP3 PLAN

DRAWING FOR REFERENCE ONLY



## STORM WATER POLLUTION PREVENTION NOTES

ALL WORK SPECIFIED AS AN O.D.O.T. ITEM SHALL BE GOVERNED BY THE CURRENT STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATION HANDBOOK. ALL OTHER ITEMS SHALL CONFORM TO SPECIFICATIONS CONTAINED IN THE O.D.N.R. MANUAL - RAINWATER AND LAND DEVELOPMENT.

THIS CONTRACT DRAWING SHALL BE MADE AVAILABLE ON SITE AT ALL TIMES AND PRESENTED UPON REQUEST. IF UNFORESEEN EROSION IS ENCOUNTERED, ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE REQUESTED BY THE OWNER, CITY ENGINEER, PROJECT ENGINEER OR SOIL CONSERVATION SERVICE REPRESENTATIVE AT ANYTIME. SUCH REQUESTS SHALL BE IMPLEMENTED IMMEDIATELY AT CONTRACTOR'S EXPENSE.

ALL EROSION AND SEDIMENTATION CONTROL ITEMS SHALL BE INSTALLED AS SHOWN ON THE STORM WATER POLLUTION PREVENTION DETAIL SHEET.

PLAN ODOT ITEM 207 TEMPORARY SEEDING AND MULCHING IN ALL AREAS THAT SHALL BE INACTIVE FOR 21 DAYS OR MORE WITHIN 7 DAYS OF LAST DISTURBANCE. ALL DISTURBED AND ERODED EARTH SHALL BE REGRADED AND SEEDING WITHIN 21 DAYS WITH SEEDING AS DEFINED ABOVE AND AS SHOWN ON THE TABLE BELOW. TO ESTABLISH STABILITY AND PROGRADE SEDIMENT CONTROL. WHERE POSSIBLE, TEMPORARY SEEDING GROWTH SHALL NOT BE MOWED UNTIL IT HAS GONE TO SEED FOR 1 YEAR.

### TEMPORARY SEEDING SPECIFICATIONS:

SEEDING DATES	SEED TYPE	APPLICATION RATE PER 1,000 SF
MARCH 1 - AUGUST 15	OATS PERENNIAL RYE GRASS OR TALL FESCUE	3# 1#
AUGUST 16 - NOVEMBER 1	RYE, WHEAT OR PERENNIAL RYE GRASS TALL FESCUE	3# 1#
AFTER NOVEMBER 1	STRAW OR HAY MULCH	2-3 BALES
SEED BED PREPARATION	LIME 10-10-10 OR 12-12-12 FERTILIZER	100# 12-15#

SILT FENCE SEDIMENT BARRIERS AND SEDIMENT PITS SHALL BE INSTALLED AROUND ALL EXISTING OR NEW STORM INLETS, CATCH BASINS, YARD DRAINS, STRAW BALES SHALL BE STACKED TWO (2) HIGH, INSTALL ROCK CHECK DAMS FOR HEADWALL INLETS TO CONTROL SOIL EROSION.

EROSION CONTROL MEASURES SHALL BE INSTALLED AROUND ALL DIRT OR TOPSOIL STOCKPILES AND OTHER TEMPORARILY DISTURBED AREAS AS SHOWN ON THESE PLANS AND AS DIRECTED BY THE ENGINEER.

TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES MUST BE INSPECTED AND LOGGED BY THE CONTRACTOR FOR 21 DAYS WITH SEEDING. LOGGING SHALL BE WEEKLY AND AFTER RAIN STORMS.

UTILITY COMPANIES MUST COMPLY WITH ALL STORM WATER POLLUTION PREVENTION MEASURES AS DEFINED ON THE STORM WATER POLLUTION PREVENTION PLANS, DETAILS AND NOTES.

THE TOTAL APPROXIMATE AREA OF DISTURBANCE FOR THIS PROJECT IS: 817,596 SQ.FT. (18.8 AC).

ALL EXISTING WATER COURSES WITHIN THE PROJECT LIMITS SHALL BE TEMPORARILY PROTECTED DURING LAND CLEARING AND GRADING OPERATIONS. SOILS WITHIN 50 FEET OF SAID WATER COURSES SHALL BE STABILIZED WITHIN 2 DAYS OR THE INITIAL CLEARING/ GRADING OPERATION AS SHOWN ON PLANS.

ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 7 DAYS OF FINAL GRADING.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SEDIMENTATION AND EROSION CONTROL ITEMS AT ALL TIMES.

ALL SWPPP PRACTICES WILL BE INSTALLED FIRST BEFORE ANY OTHER EARTH MOVING OCCURS.

THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES WILL BE USED ON THIS SITE:  
- SILT SOXX, STORM DRAIN INLET & PROTECTION

### CONSTRUCTION SEQUENCE

#### GENERAL CONSTRUCTION ACTIVITIES

##### NEW SHEARS OFFICE AND PROCESSING FACILITY

#### GENERAL CONSTRUCTION SEQUENCE

THE PROJECT SITE SHALL BE CLEARED AND GRUBBED WITHIN THE GRADING LIMITS AS SHOWN ON THE PLANS.

TEMPORARY SEDIMENTATION AND EROSION CONTROL ITEMS SHALL BE INSTALLED.

SITE GRADING OPERATION TO BEGIN.

AT COMPLETION OF GRADING OPERATION, TEMPORARY OR PERMANENT SEEDING AND MULCHING SHALL BE INSTALLED AS DESIGNATED ON THIS SHEET.

AT COMPLETION OF PERMANENT STORM WATER CONTROL STRUCTURES AND SITE IS SUFFICIENTLY STABLE, THE TEMPORARY SEDIMENTATION AND EROSION CONTROL ITEMS SHALL BE REMOVED.

#### DROP INLET SEDIMENT BARRIERS

##### SILT FENCE SEDIMENT BARRIER

SUPPORT POSTS FOR A SILT FENCE SHALL BE STEEL FENCE POSTS OR 2 BY 4 INCH WOOD, LENGTH 3' MINIMUM, SPACING 3' MAXIMUM, WITH A TOP FRAME SUPPORT RECOMMENDED. EXCAVATE A TRENCH 4 INCHES WIDE AND 6 INCHES DEEP AND BURY THE BOTTOM OF THE WIRE MESH BACKING AND THE SILT FENCE IN THE TRENCH. BACKFILL THE TRENCH WITH GRAVEL OR SOIL. COMPACT BACKFILL WELL THE HEIGHT OF THE SILT FENCE SHALL BE A MAXIMUM OF 1.5' MEASURED FROM THE TOP OF THE INLET.

##### INSPECTION AND MAINTENANCE

INSPECT THE BARRIER AFTER EACH RAIN AND PROMPTLY MAKE REPAIRS AS NEEDED. SEDIMENT SHALL BE REMOVED AFTER EACH SIGNIFICANT STORM (1" IN 24 HOURS) TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. THE REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED. FOR GRAVEL FILTERS: IF THE GRAVEL BECOMES CLOGGED WITH SEDIMENT IT MUST BE CAREFULLY REMOVED FROM THE INLET AND EITHER CLEANED OR REPLACED.

##### CONTACT PERSON

RANDY WHISLER - SHEARER'S FOODS PROJECT MANAGER - 330-767-7145

##### CO-PERMITTEE INFORMATION

TIM SCHUMACHER - SHEARER'S CONSTRUCTION CONTRACTOR - 330-833-8387

##### SOILS INFORMATION

REFER TO SUB-SURFACE INFORMATION REPORT DATED 8-28-08 BY TIMMERMAN GEOTECHNICAL GROUP.

##### SURFACE WATER LOCATIONS

THERE ARE NO WATER BODIES WITHIN 1000 FEET OF THE PROJECT SITE. FOR DRAINAGE WATERSHED DRAWING, REFER TO STORM WATER MANAGEMENT REPORT.



### SWPPP Cut Sheet

Last Updated: 7-1-07

#### Section 1: Erosion and Sediment Control - Construction Activities

##### 1.1 Filtrex SiltSoxx™ Sediment & Perimeter Control Technology

##### PURPOSE & DESCRIPTION

Filtrex SiltSoxx™ are a three-dimensional tubular sediment control and storm water runoff filtration device typically used for perimeter control of sediment and other soluble pollutants (such as phosphorus and petroleum hydrocarbons), on and around construction activities.

##### APPLICATION

Filtrex SiltSoxx™ are to be installed down slope of any disturbed area requiring erosion and sediment control and filtration of soluble pollutants from runoff. SiltSoxx™ are effective when installed perpendicular to sheet or low concentrated flow. Acceptable applications include:

- Site perimeters
- Above and below disturbed areas subject to sheet runoff, interrill and rill erosion
- Above and below exposed and erodible slopes
- Around new drains or inlets located in a "runoff"
- On compacted soils where trenching of silt fence is difficult or impossible
- Around sensitive trees where trenching of silt fence is not beneficial for tree survival or may unnecessarily disturb established vegetation.
- On frozen ground where trenching of silt fence is impossible
- On paved surfaces where trenching of silt fence is impossible

##### INSTALLATION

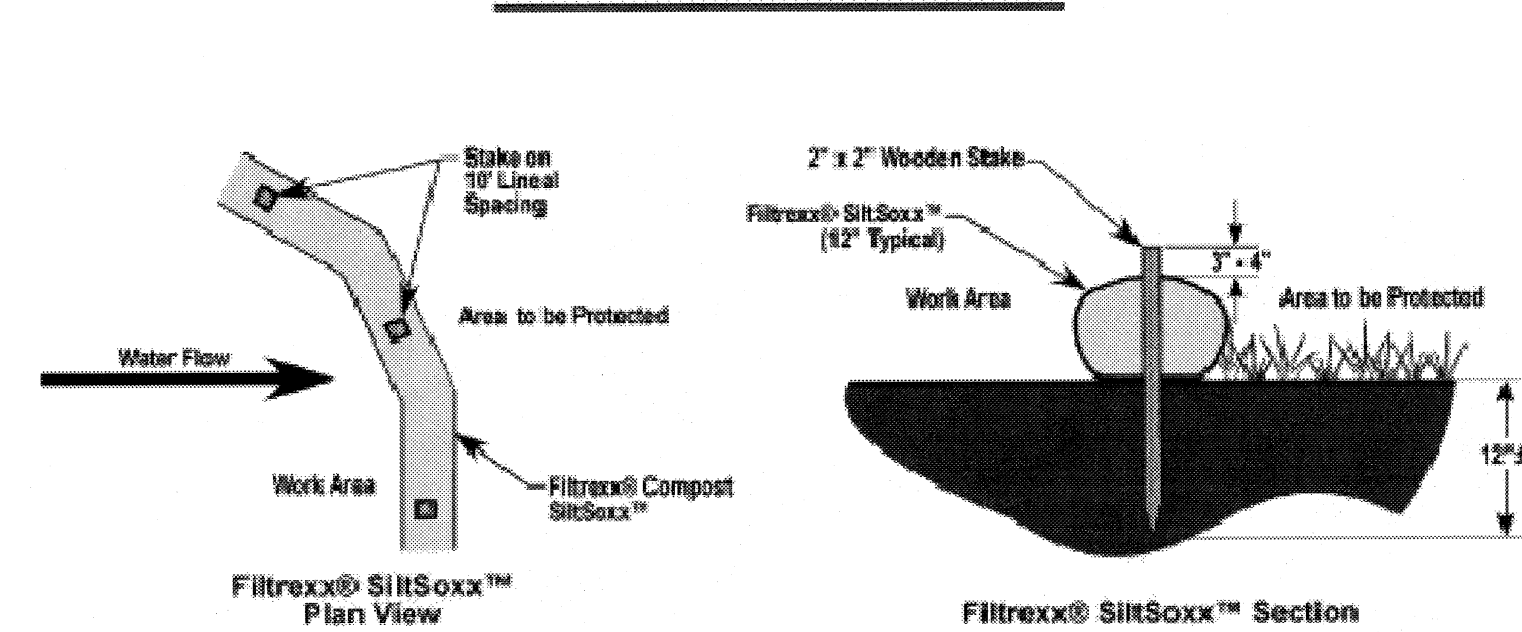
1. SiltSoxx™ used for perimeter control of sediment and soluble pollutants in storm runoff shall meet Filtrex Soxx™ Material Specifications and use Certified Filtrex Media™.
2. Contractor is required to be Filtrex Certified™ as determined by Filtrex International, LLC (440-926-2607 or visit website at www.filtrex.com). Certification shall be considered current if appropriate identification is shown during time of bid or at time of application (current listing can be found at www.filtrex.com). Look for the Filtrex Certified™ Seal.
3. SiltSoxx™ will be placed at locations indicated on plans or directed by the Engineer.
4. SiltSoxx™ should be installed parallel to the base of the slope or other disturbed area. In extreme conditions (i.e., 2:1 slopes), a second SiltSoxx™ shall be constructed at the top of the slope.
5. Stakes shall be installed through the middle of the SiltSoxx™ on 10 ft (3m) centers, using 2 in (50mm) by 2 in (50mm) by 3 ft (1m) wooden stakes. In the event staking is not possible, i.e., when SiltSoxx™ are used on pavement, heavy concrete blocks shall be used behind the SiltSoxx™ to help stabilize during rainfall/runoff events.
6. Staking depth for sand and silt loam soils shall be 12 in (300mm), and 8 in (200mm) for clay soils.
7. Loose compost may be backfilled along the upslope side of the SiltSoxx™, filling the seam between the soil surface and the device, improving filtration and sediment retention.
8. If the SiltSoxx™ is to be left as a permanent filter or part of the natural landscape, it may be seeded at time of installation for establishment of permanent vegetation. The Engineer will specify seed requirements.
9. Filtrex SiltSoxx™ are not to be used in perennial, ephemeral, or intermittent streams.
9. See design drawing schematic for correct Filtrex SiltSoxx™ installation (Figure 1.1).

##### INSPECTION AND MAINTENANCE

Routine inspection should be conducted within 24 hrs of a runoff event or as designated by the regulating authority. SiltSoxx™ should be regularly inspected to make sure they maintain their shape and are producing adequate hydraulic flow-through. If ponding becomes excessive, additional SiltSoxx™ may be required to reduce effective slope length or sediment removal may be necessary. SiltSoxx™ shall be inspected until area above has been permanently stabilized and construction activity has ceased.

1. The Contractor shall maintain the SiltSoxx™ in a functional condition at all times and it shall be routinely inspected.
2. If the SiltSoxx™ has been damaged, it shall be repaired, or replaced if beyond repair.
3. The Contractor shall remove sediment at the base of the upslope side of the SiltSoxx™ when accumulation has reached 1/2 of the effective height of the SiltSoxx™, or as directed by the Engineer. Alternatively, a new SiltSoxx™ can be placed on top of and slightly behind the original one creating more sediment storage capacity without soil disturbance.
4. SiltSoxx™ shall be maintained until disturbed area above the device has been permanently stabilized and construction activity has ceased.
5. The FiltrexMedia™ will be dispensed on site once disturbed area has been permanently stabilized, construction activity has ceased, or as determined by the Engineer.
6. For long-term sediment and pollution control applications, SiltSoxx™ can be seeded at the time of installation to create a vegetative filtering system for prolonged and increased filtration of sediment and soluble pollutants (contained vegetative filter strip). The appropriate seed mix shall be determined by the Engineer.

#### Filtrex® SiltSoxx™ Details



##### Notes:

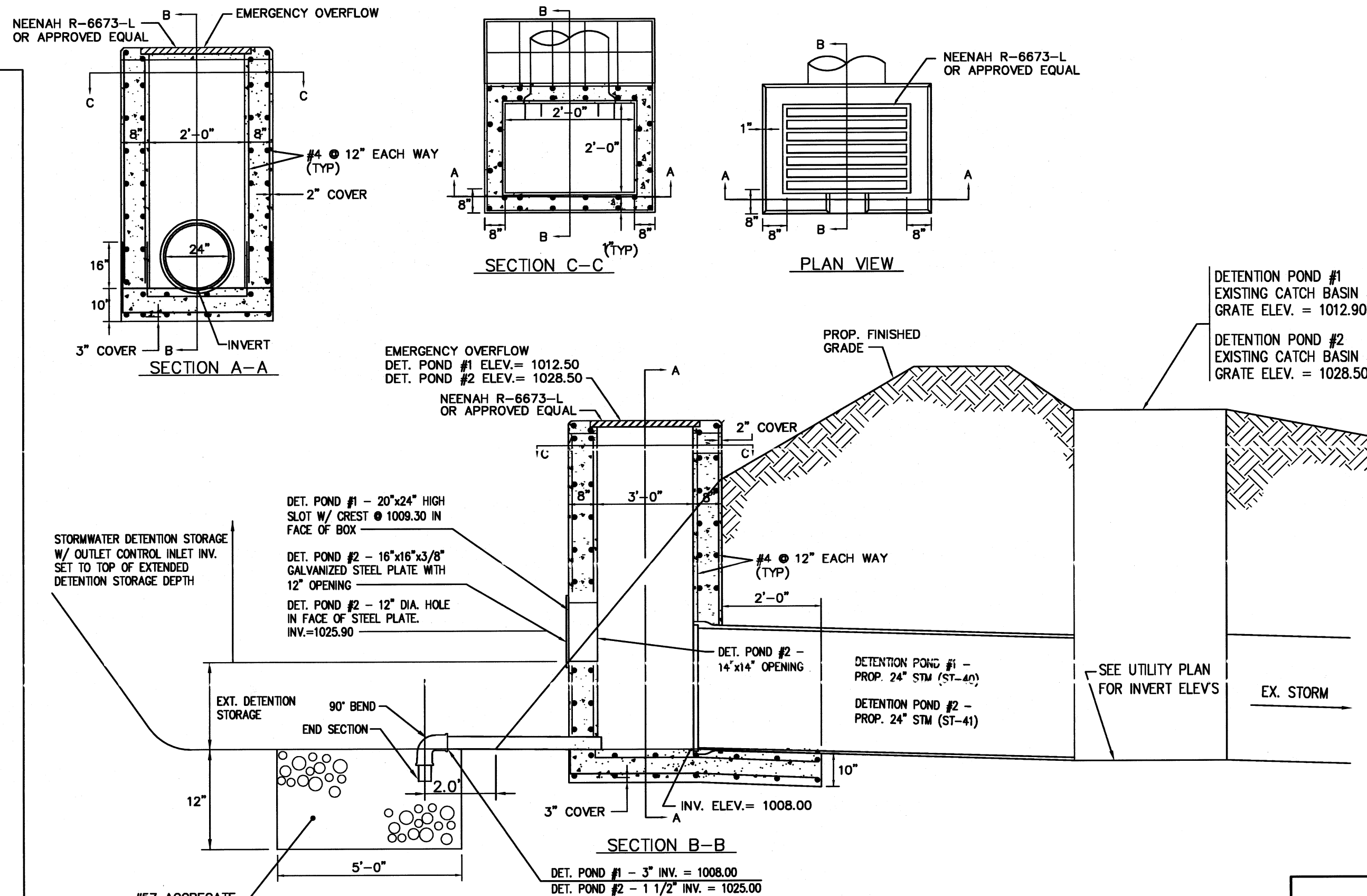
1. All material to meet Filtrex® specifications.
2. SiltSoxx™ composite soil/rock/seed fill to meet application requirements.
3. SiltSoxx™ designed for minimum slopes. Greater slopes may require larger rocks per the Engineer.
4. Compost material to be dispensed on site, as determined by Engineer.

Slope Percent	Maximum Slope Length Above SiltSoxx™ in Feet (meters)*				
	8 in (200 mm) SiltSoxx™	12 in (300 mm) SiltSoxx™	18 in (450 mm) SiltSoxx™	24 in (600 mm) SiltSoxx™	32 in (800 mm) SiltSoxx™
2 (or less)	400 (120)	750 (225)	1000 (300)	1300 (400)	1650 (500)
5	400 (120)	500 (150)	550 (165)	650 (200)	750 (225)
10	200 (60)	250 (75)	300 (90)	400 (120)	500 (150)
15	140 (40)	170 (50)	200 (60)	325 (100)	450 (140)
20	100 (30)	125 (38)	140 (42)	260 (80)	400 (120)
25	80 (24)	100 (30)	110 (33)	200 (60)	275 (85)
30	60 (18)	75 (23)	90 (27)	130 (40)	200 (60)
35	60 (18)	75 (23)	80 (24)	115 (35)	150 (45)
40	60 (18)	75 (23)	80 (24)	100 (30)	125 (38)
45	40 (12)	50 (15)	60 (18)	80 (24)	100 (30)
50	40 (12)	50 (15)	55 (17)	65 (20)	75 (23)

\*Based on a failure point of 36 in (9.1 m) super silt fence (wire reinforced) at 1000 ft (303 m) of slope, watershed width equivalent to receiving length of sediment control device, 1 in/ 24 hr (25 mm/24 hr) rain event. \*\*Effective height of Silt Soxx™ after installation and with constant head from runoff as determined by Ohio State University.

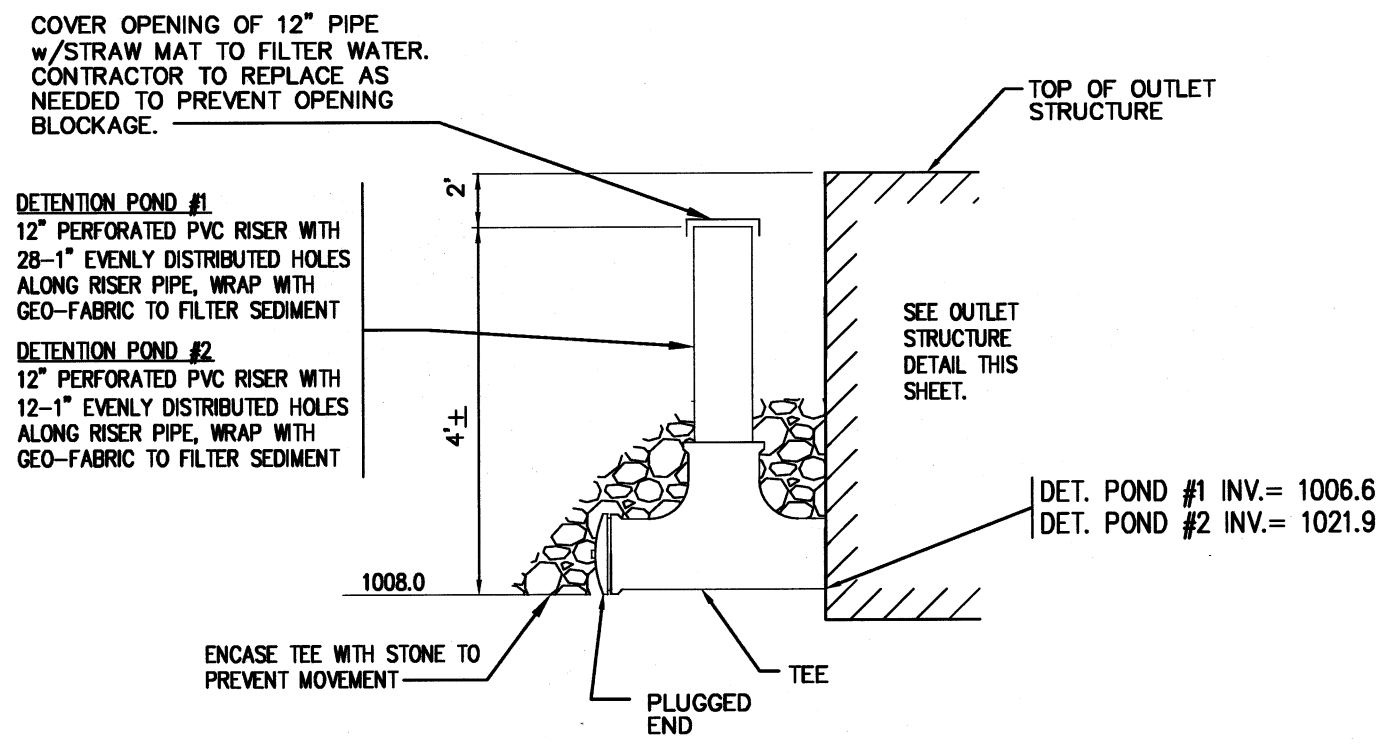
#### SILT SOXX

N.T.S.



#### OUTLET STRUCTURE W/ WATER QUALITY FEATURE

N.T.S.



#### TEMPORARY BASIN OUTLET SECTION

N.T.S.

#### OPERATION, MAINTENANCE AND INSPECTION NOTES

The Shearer's Food's Co. will be responsible for operation, maintenance and inspection of the pocket-well-outlet detention basin. Shearer's will perform quarterly inspections and basin remediation required as defined below. The City of Massillon retains the right to enforce O.M. & I requirements as defined below as well as the right to perform the O.M. & I items if Shearer's fails to do so.

Contact person: RANDY WHISLER - SHEARER'S FOODS PROJECT MANAGER - 330-767-7145

#### OPERATION AND MAINTENANCE

##### Vegetation

Vegetation of the embankment will consist of only wetland specie growth. Mowing is prohibited; natural growth is to be encouraged. All trees, shrubs, bushes are to be removed or cut down when they are discovered. Re-seed all bare spots along the embankment during the spring or fall grass growing season. All eroded areas are to be re-graded and seeded during the spring or fall seeding period. Re-seed using specified seeding mixture as defined in the construction documents.

##### Rodent Damage

The basin embankment will be inspected for rodent burrows quarterly. To backfill, place a tube (aluminum, plastic, etc.) into the burrow hole to a depth of two (2) feet and a cement slurry poured into the hole to within six (6) inches of surface. Remove the tube and tamp into place dry soil to cover the burrow. Re-establish vegetative growth at next growth period.

##### Principal Outlet Structure

The outlet structure is rectangular box structure with inlet and outlet piping. The top of the structure is covered with a grate casting and is to be inspected quarterly for debris buildup. Any debris at openings and within box structure is to be removed. The outlet structure is to be visually inspected for unusual cracks and leaking.

##### Emergency Spillway

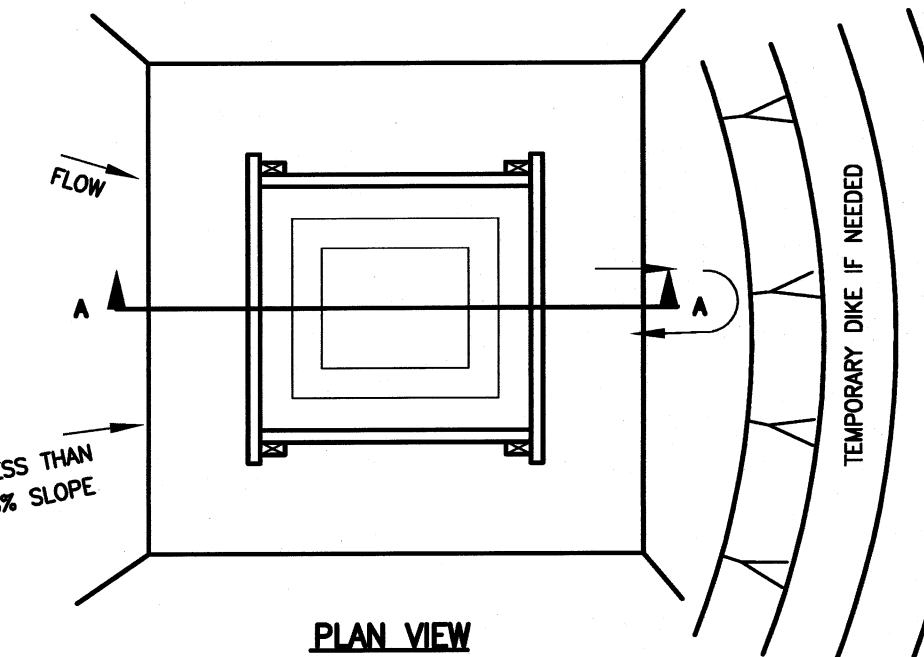
The spillway control section and downstream spillway is to be kept free from debris and is to be maintained as defined in the "Vegetation" section above.

##### INSPECTION

Quarterly inspections are to be performed on the detention / pocket-well-outlet.

The designated inspector is to examine the following on a quarterly basis:

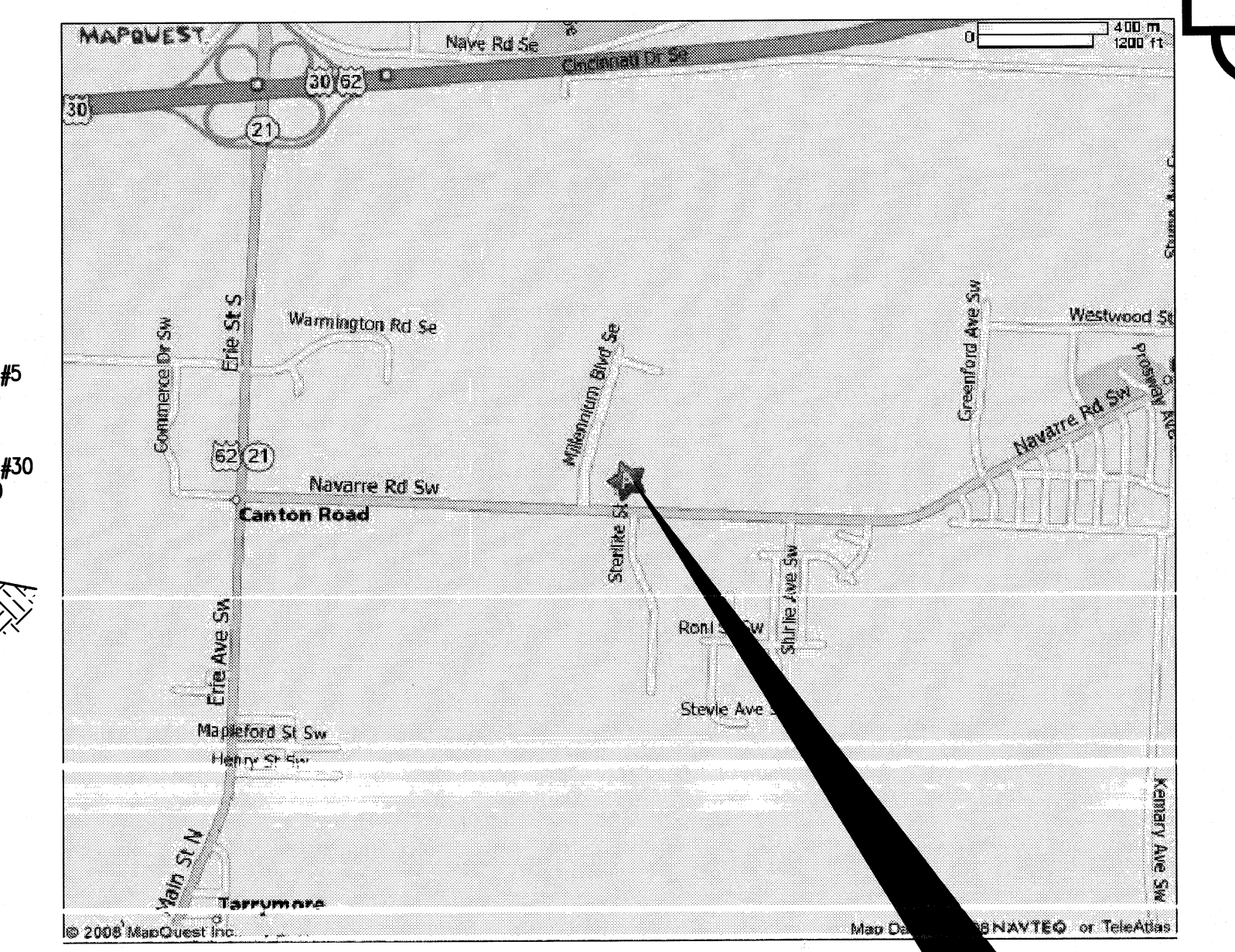
- Condition of vegetation along embankment and spillway.
- Condition of Outlet structure - note debris buildup, concrete spalls, seepage, structural integrity (cracks, deformations, failures, etc.)
- Condition of downstream embankment - note erosion, grade failures, seepage.
- Condition of embankment and spillways - note erosion, grade settlements, grade failures and seepage.
- Report rodent activity.
- Report vandalism.
- Prepare quarterly inspection report.



##### PLAN VIEW

1. THIS TYPE OF INLET PROTECTION TO BE USED UPON CURB INLET BOX INSTALLATION AND PRIOR TO FRAME AND COVER INSTALLATION.
2. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
3. USE 2X4 WOOD OR EQUIVALENT METAL STAKES. (3 FT MIN. LENGTH)
4. INSTALL 2X4 WOOD TOP FRAME TO INSURE STABILITY.
5. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY-PASSING THE INLET. A TEMPORARY DIRT MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

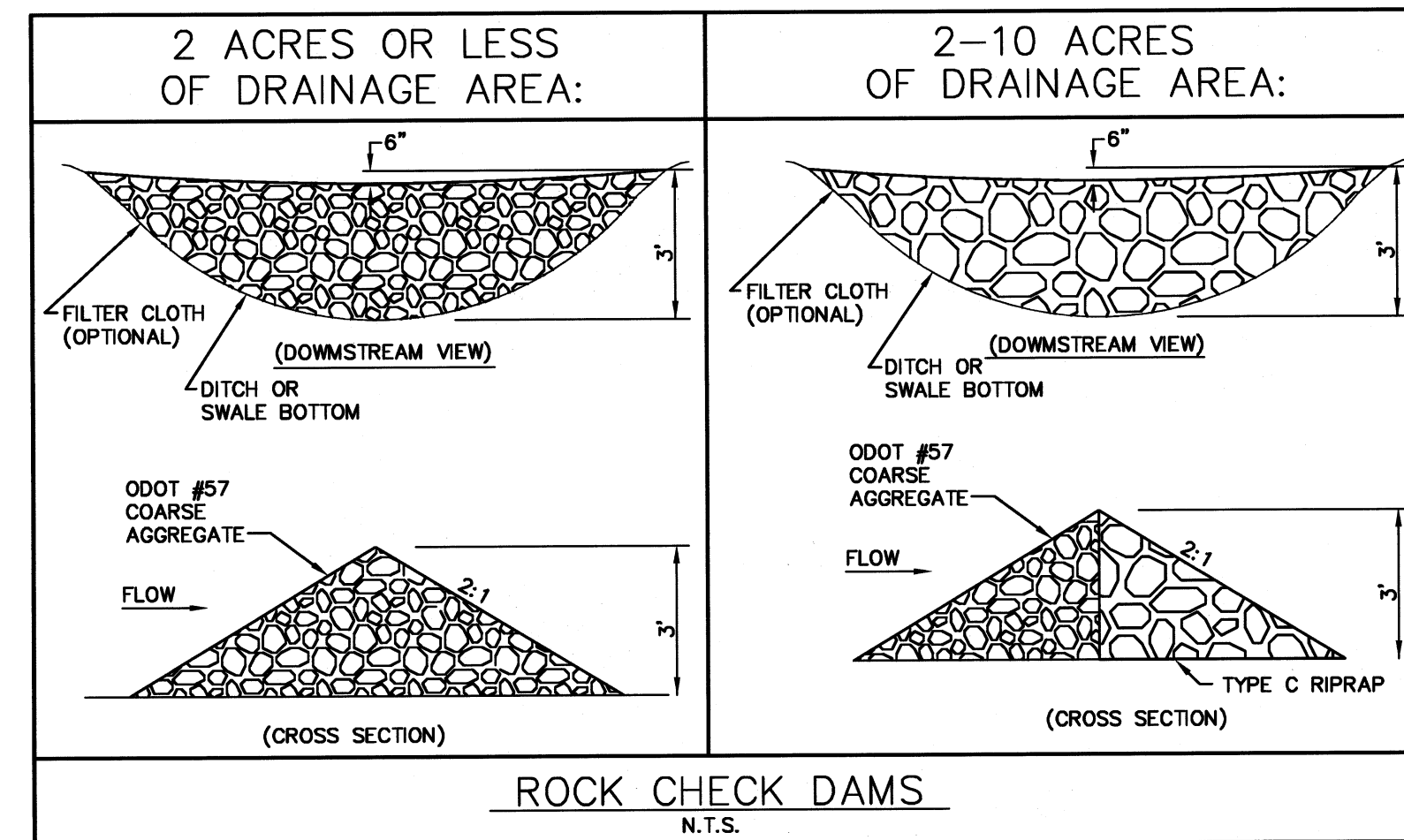
#### SILT FENCE DROP INLET SEDIMENT BARRIER



LOCATION MAP  
N.T.S.

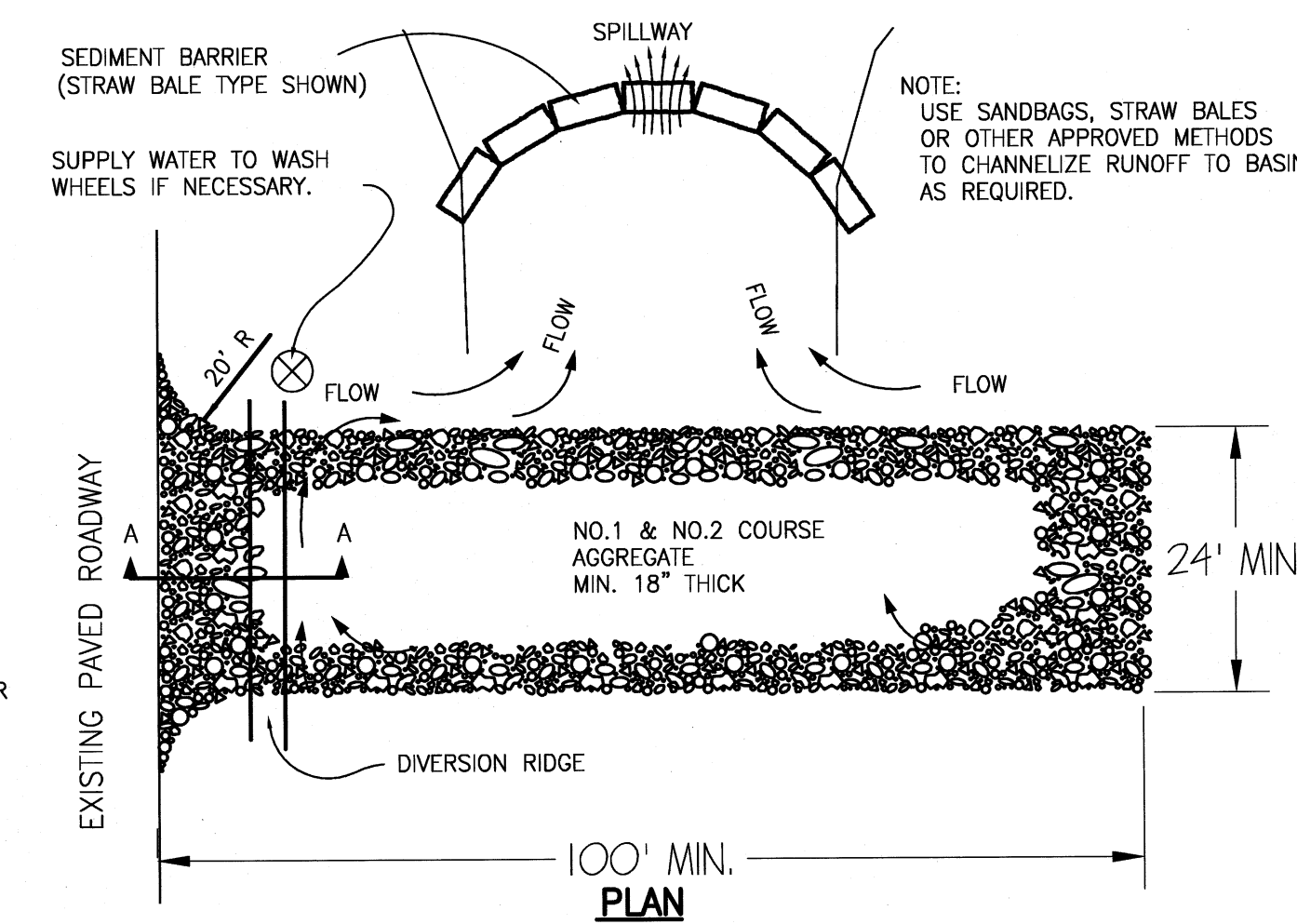


SITE



#### ROCK CHECK DAMS

N.T.S.



#### TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT

N.T.S.



ALL REVISIONS MADE TO THIS DRAWING AFTER 06/22/09 SHALL BE DATED AND DESCRIBED BELOW. THIS DRAWING WAS LAST REVISED ON 07/27/09.

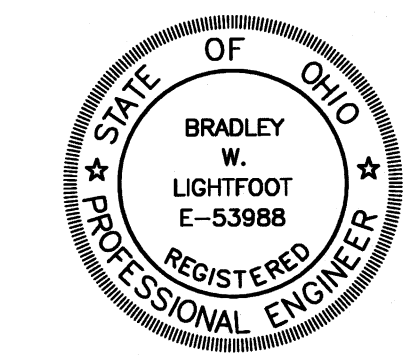
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6	00/00/00	AAAAA

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#### JOHN PATRICK PICARD ARCHITECT INCORPORATED

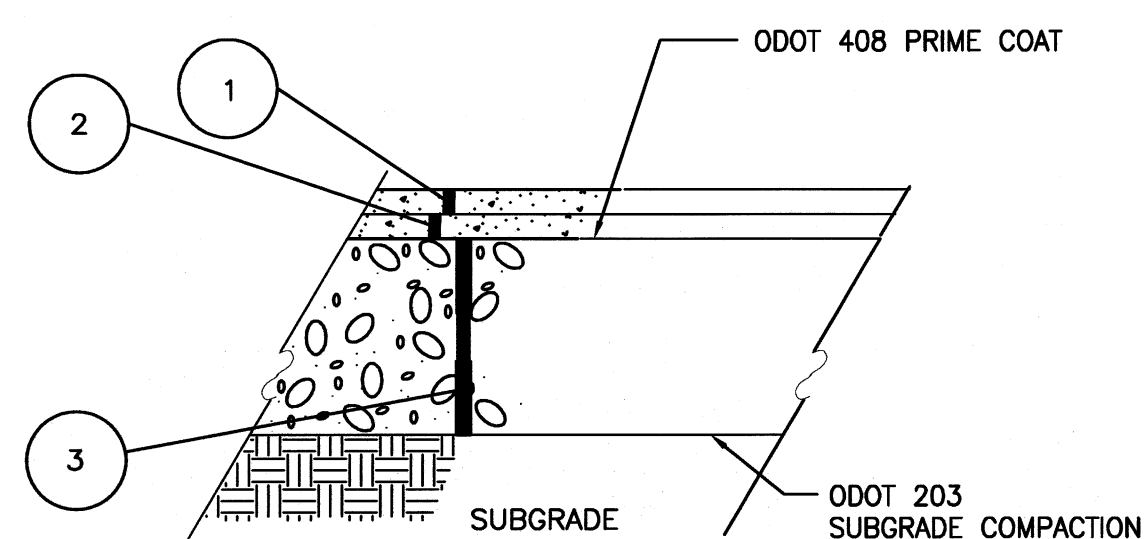
720 MCKINLEY AVENUE, NW  
CANTON, OHIO 44703  
PHONE (330) 471-9000  
FAX (330) 471-9549



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4100 MILLENNIUM BOULEVARD SE  
MASSILLON, OHIO 44646

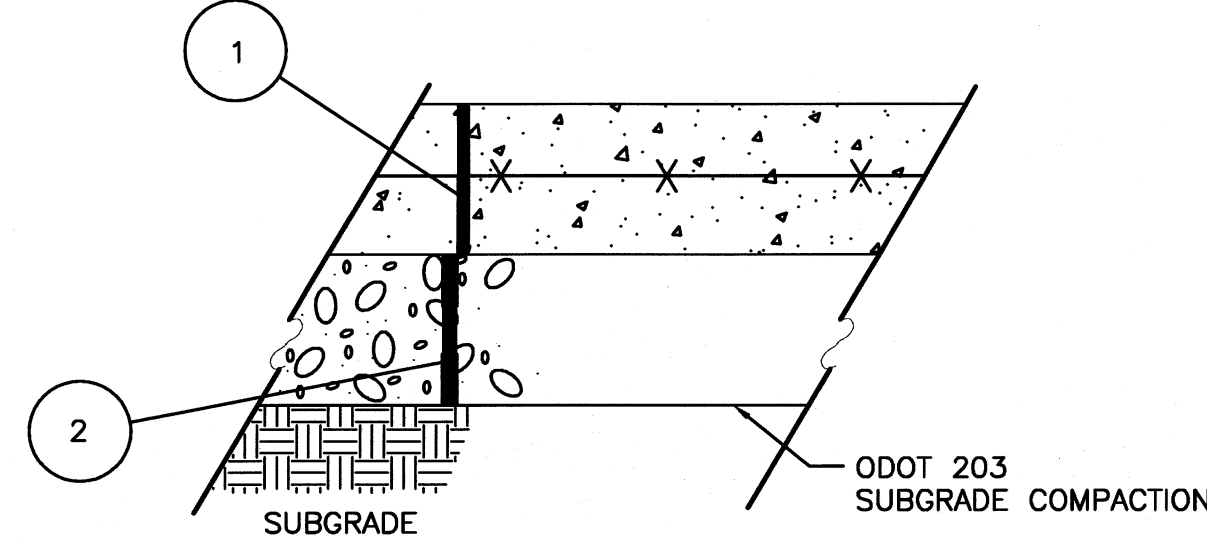
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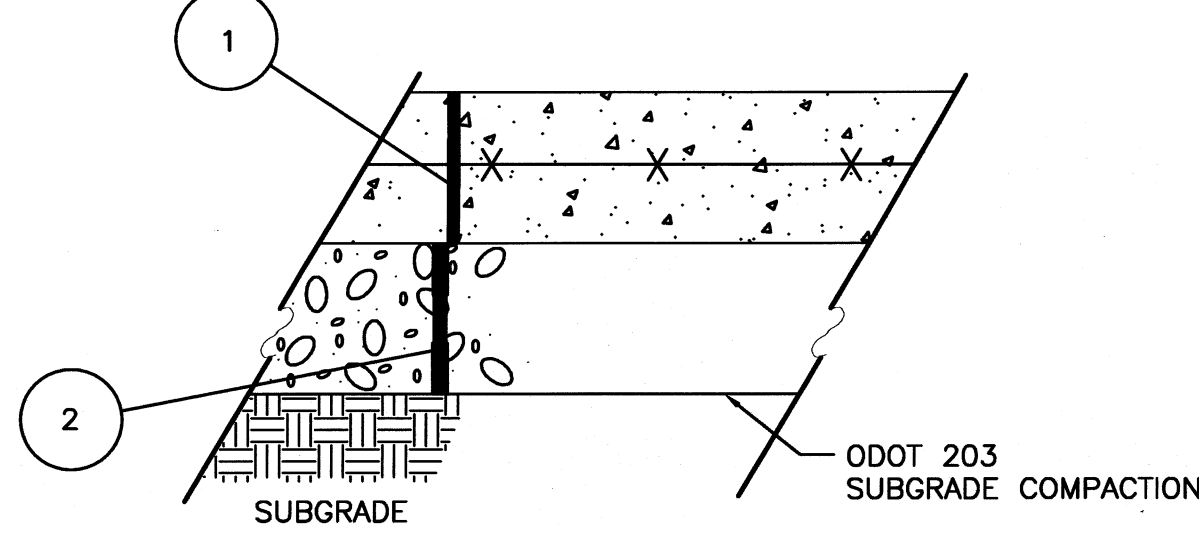
ASPHALT PAVING DETAIL (REGULAR DUTY)  
(PHASE 2)  
NOT TO SCALE

ROAD SURFACE MATERIALS		
TYPE	DESCRIPTION	THICKNESS
1	ODOT 448 ASPHALT (ASHTO-M226)	1.5"
2	ODOT 301 BITUMINOUS AGG. BASE (ASHTO-M226)	2"
3	ODOT 304 AGGREGATE	8"



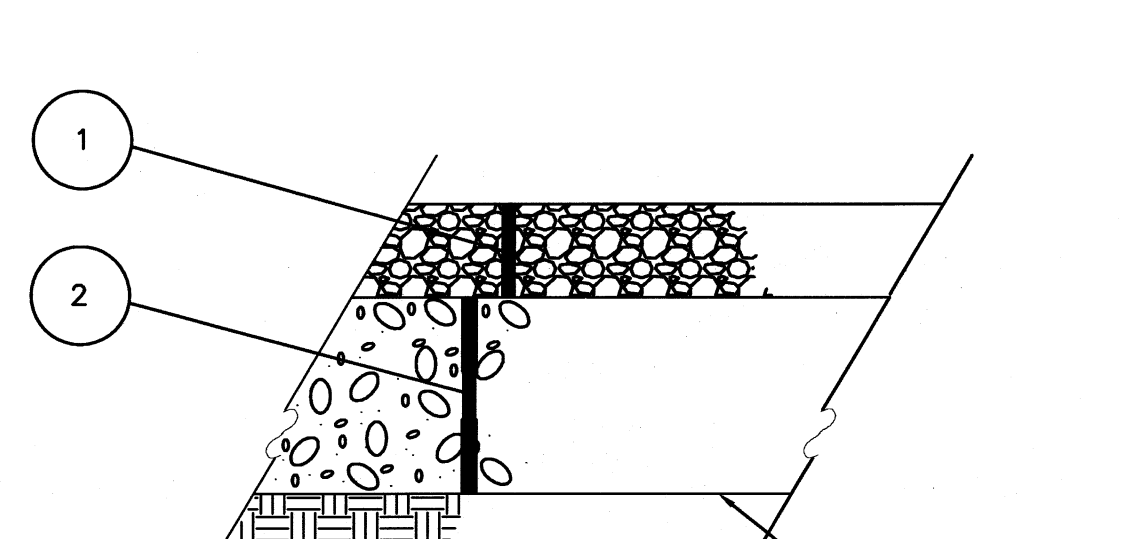
HEAVY DUTY  
CONCRETE PAVEMENT DETAIL  
N.T.S.

ROAD SURFACE MATERIALS		
TYPE	DESCRIPTION	THICKNESS
1	ODOT 451 REINFORCED CONCRETE W/ 1 LAYER 6x6-W2.9xW2.9 CLASS 'S' CONC.	8"
2	ODOT 304 AGGREGATE	6"



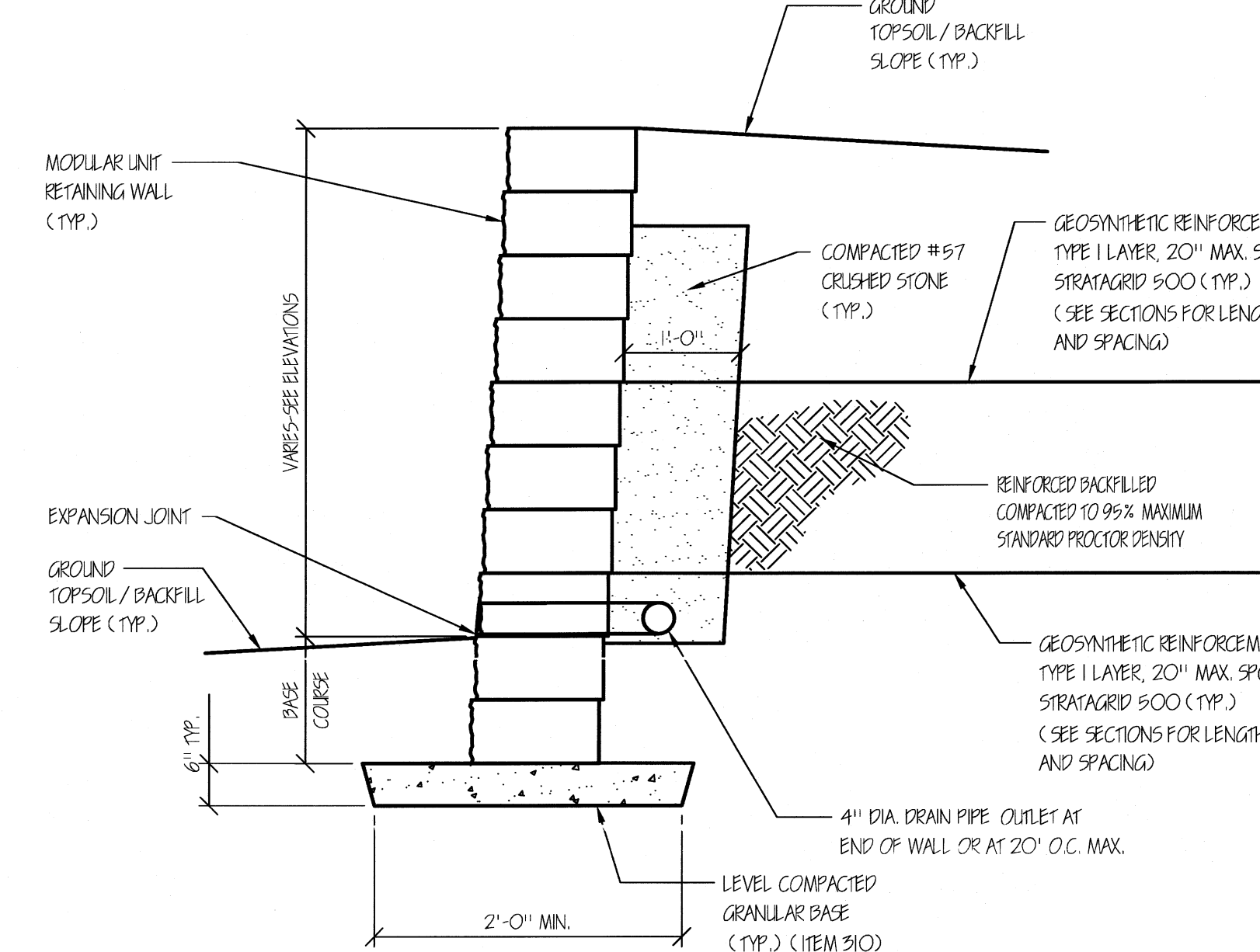
REGULAR DUTY  
CONCRETE PAVEMENT DETAIL  
N.T.S.

ROAD SURFACE MATERIALS		
TYPE	DESCRIPTION	THICKNESS
1	ODOT 451 REINFORCED CONCRETE W/ 1 LAYER 6x6-W2.9xW2.9 CLASS 'S' CONC.	6"
2	ODOT 304 AGGREGATE	4"



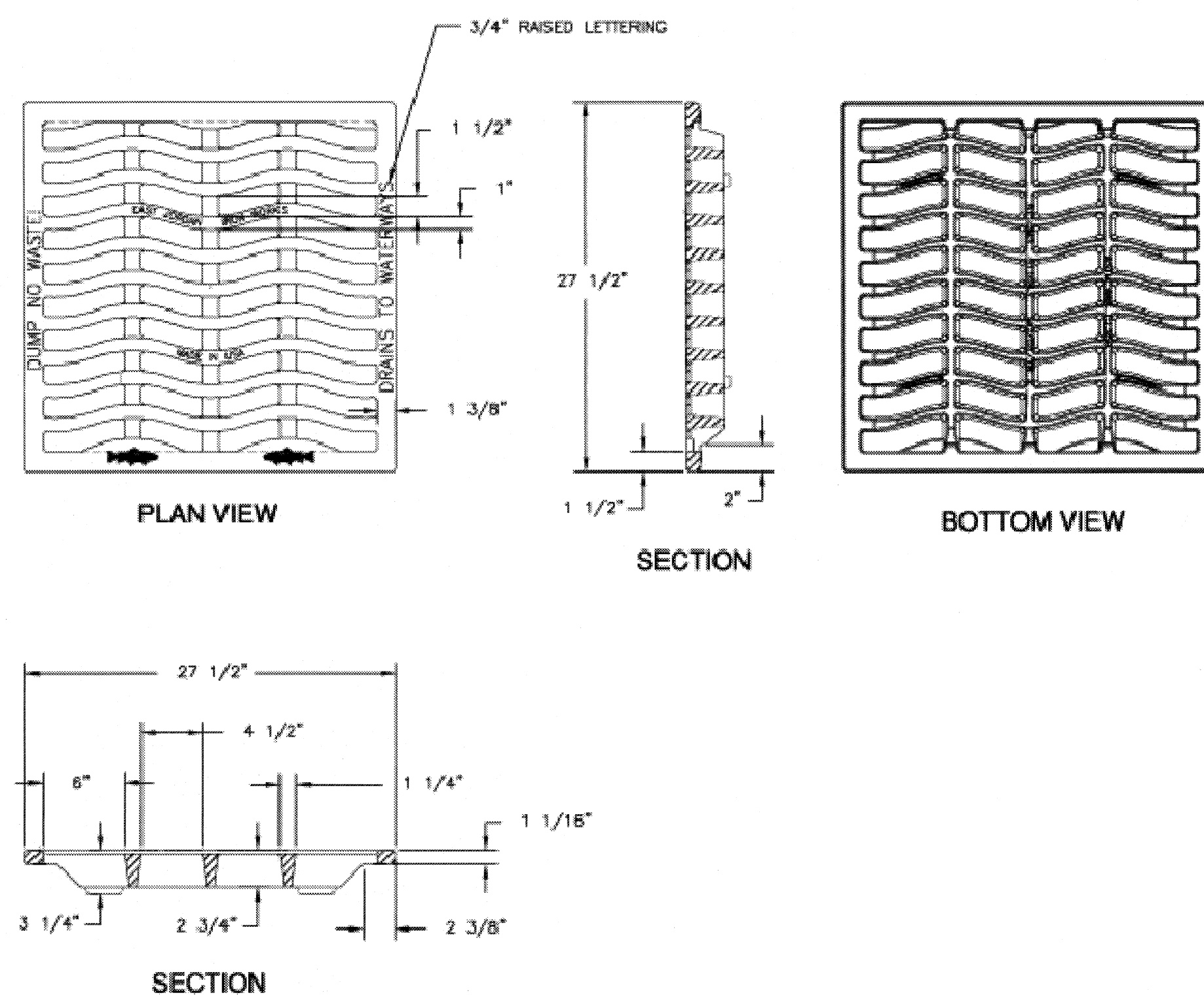
GRAVEL PAVING DETAIL  
NOT TO SCALE

ROAD SURFACE MATERIALS		
TYPE	DESCRIPTION	THICKNESS
1	#57 LIMESTONE AGGREGATE	6"
2	#1'S AGGREGATE	8"

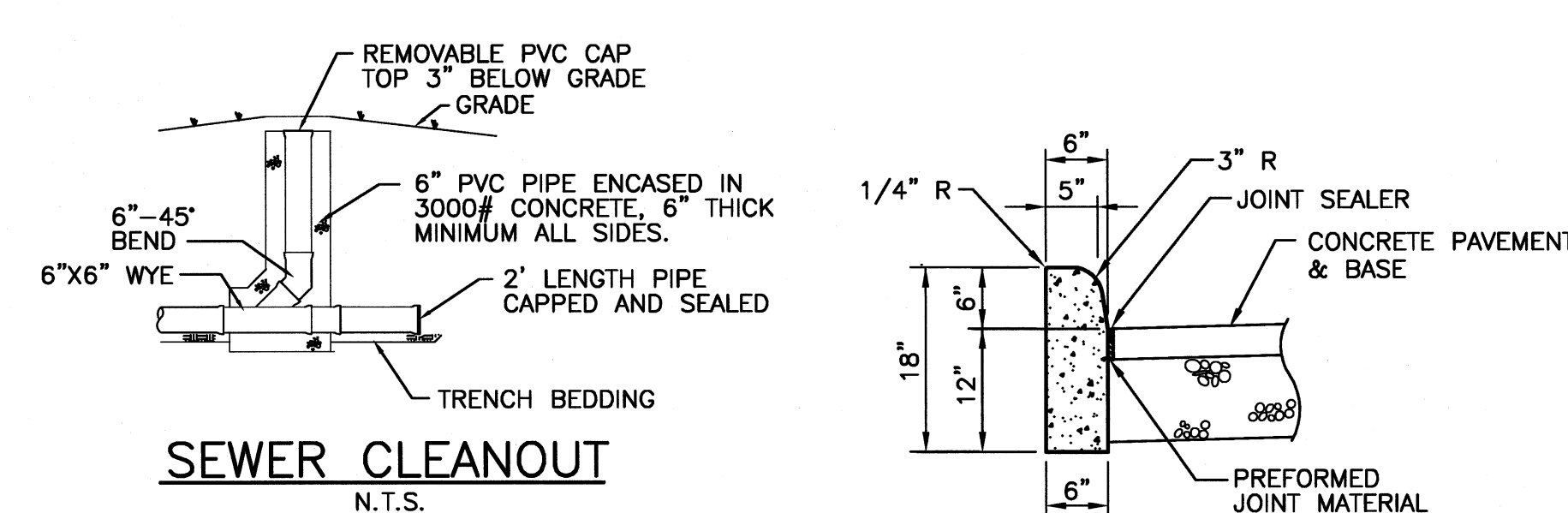


TYPICAL MODULAR UNIT WALL SECTION (PHASE 2)  
SCALE: N.T.S.

- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- NOTE:  
1. WALL TO BE PISA II RETAINING WALL SYSTEM BY Uni-Lock. 800-564-5625 Fax 950-927-4100  
2. CONTRACTOR TO COORDINATE WALL COLORS WITH ARCHITECT.  
3. SEE MANUFACTURER DESIGN AND INSTALLATION GUIDELINES FOR FURTHER RESTRICTIONS AND INSTALLATION DETAILS.  
4. THE SITE SOILS ARE CLASSIFIED AS BASIC CLASS D AND WALL BASES HAVE BEEN DESIGNED A MAXIMUM BEARING PRESSURE OF 1,500 PSF. (INFORMATION AS PROVIDED IN THE SOILS REPORT PERFORMED BY TANNERMAN GEOTECHNICAL GROUP DATED AUGUST 28, 2008.)  
5. CONTRACTOR SHALL SUBMIT CALCULATIONS AND DRAWINGS, STAMPED BY AN OHIO PROFESSIONAL ENGINEER, TO BE APPROVED BY THE OWNER'S ENGINEER.

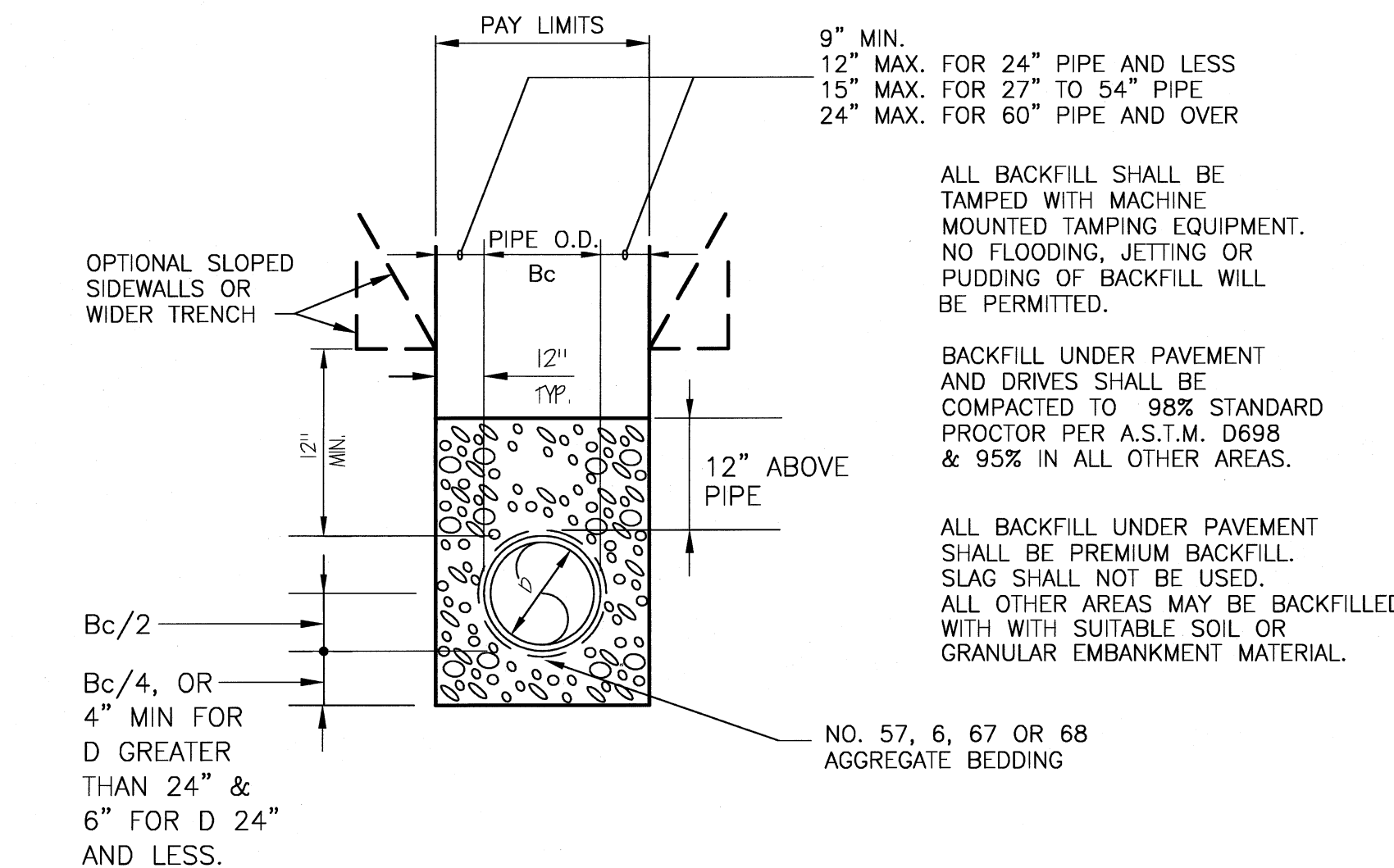


<b>EJW EAST JORDAN</b> 800-626-4653 www.ejw.com MADE IN USA	
PRODUCT NUMBER	00511043
CATALOG NUMBER	5110M3
<b>SQUARE CATCH BASIN GRATE</b>	
LOAD RATING	HEAVY DUTY
COATING	DIPPED
ESTIMATED WEIGHT	GRATE: 191 LBS
MATERIAL SPECIFICATION	
GRATE - GRAY IRON ASTM A48 CL35B	
OPEN AREA 320 SQ. INCHES	
✓ DESIGNATES MACHINED SURFACE	
DRAWN DEW	DATE 05/10/06
LAST REVISED DEF	DATE 04/11/08
REFERENCE INFORMATION	

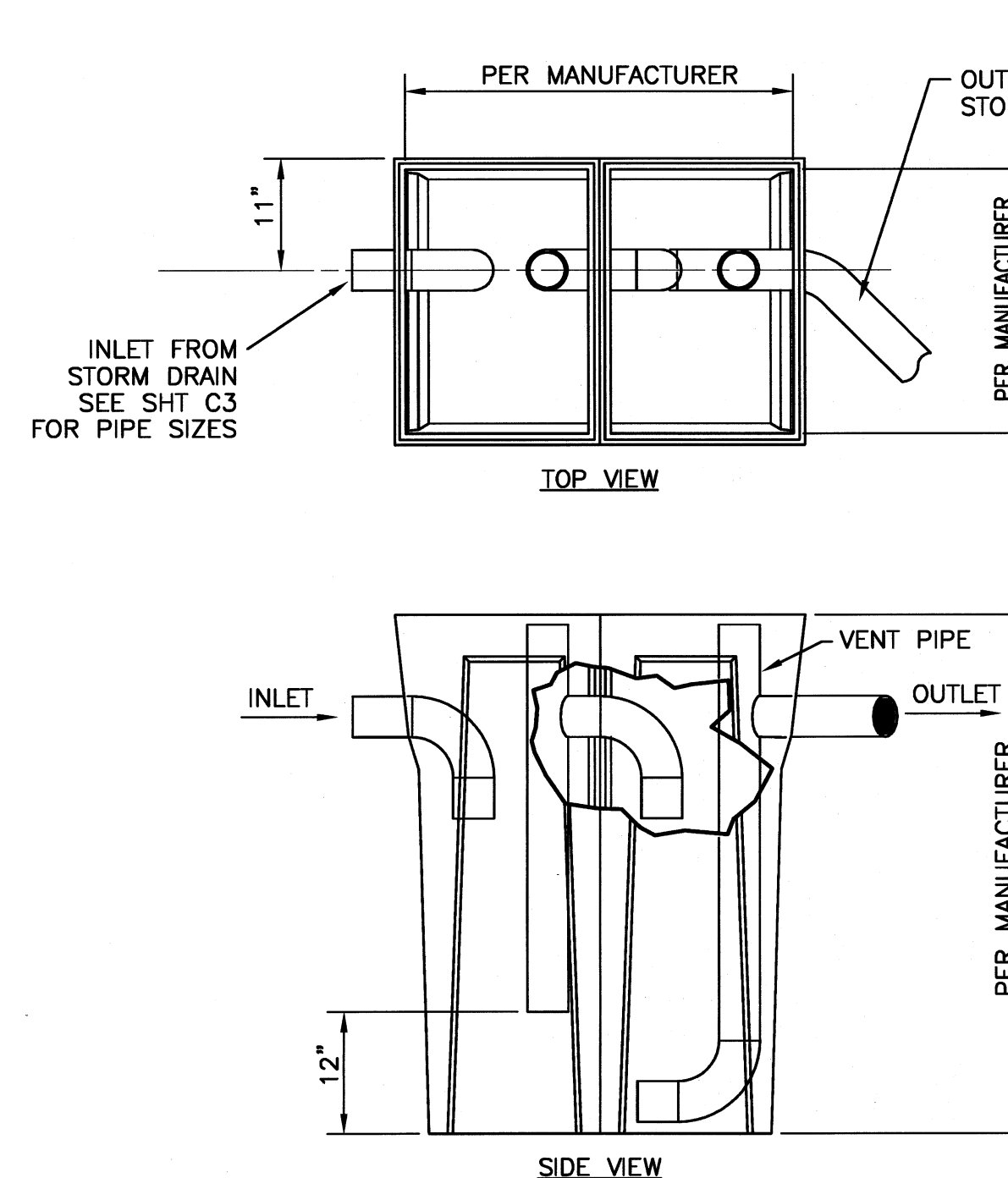


SEWER CLEANOUT  
N.T.S.

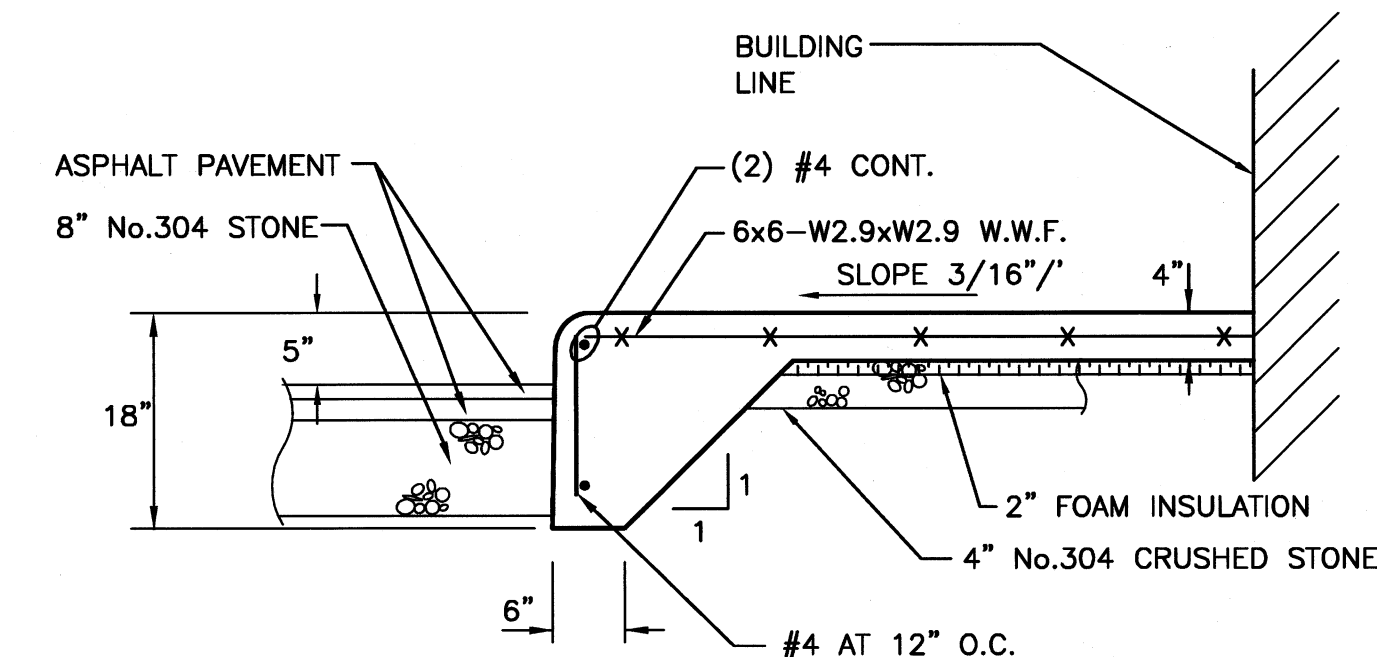
6"x18" CONCRETE  
CURB DETAIL  
SCALE: 3/4"=1'-0"



TYPICAL FLEXIBLE PIPE TRENCH DETAIL  
N.T.S.



ACO 500 GAL. TWIN BASIN OR EQUIV.  
SEPARATOR DETAIL  
(FOR PARKING LOT DRAINS)  
N.T.S.



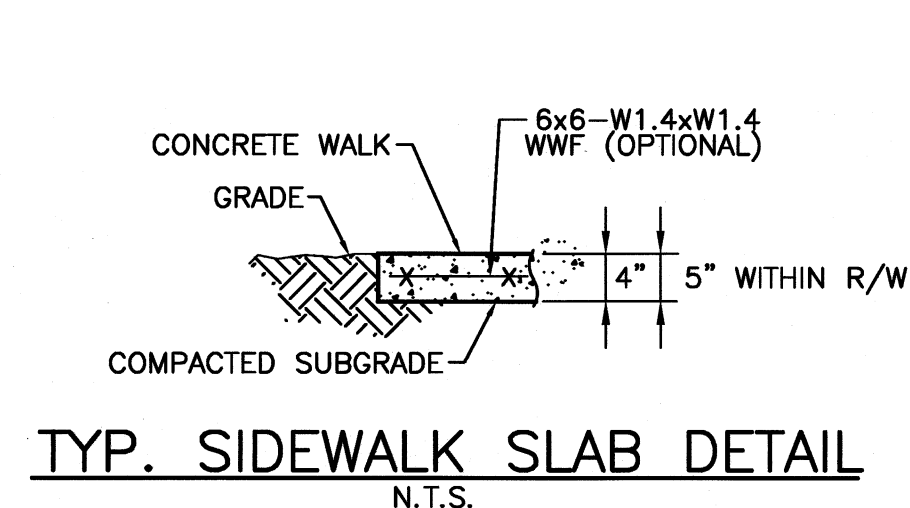
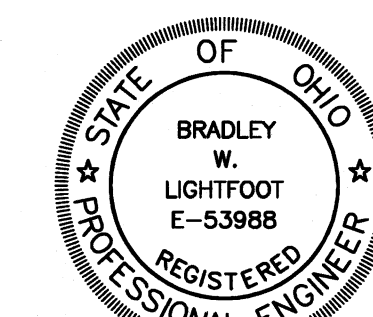
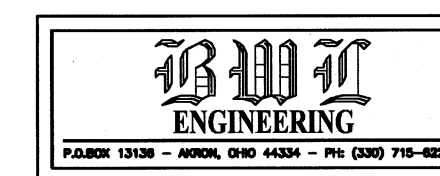
INTEGRAL CURB & WALK DETAIL (PHASE 2)  
N.T.S.



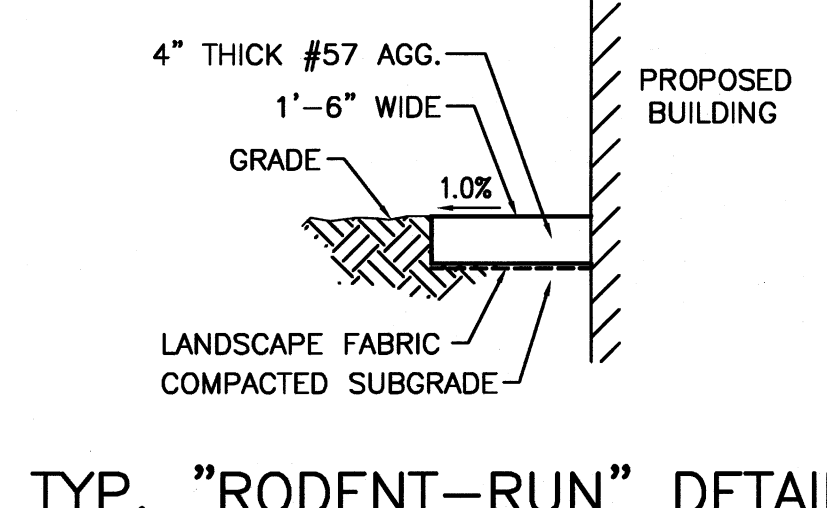
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1	05/22/09	A - ISSUED FOR BID
2	05/29/09	B - APPENDUM I
3	06/22/09	C - ISSUED FOR CONSTRUCTION
4	00/00/00	AAAAA
5	00/00/00	AAAAA
6	00/00/00	AAAAA

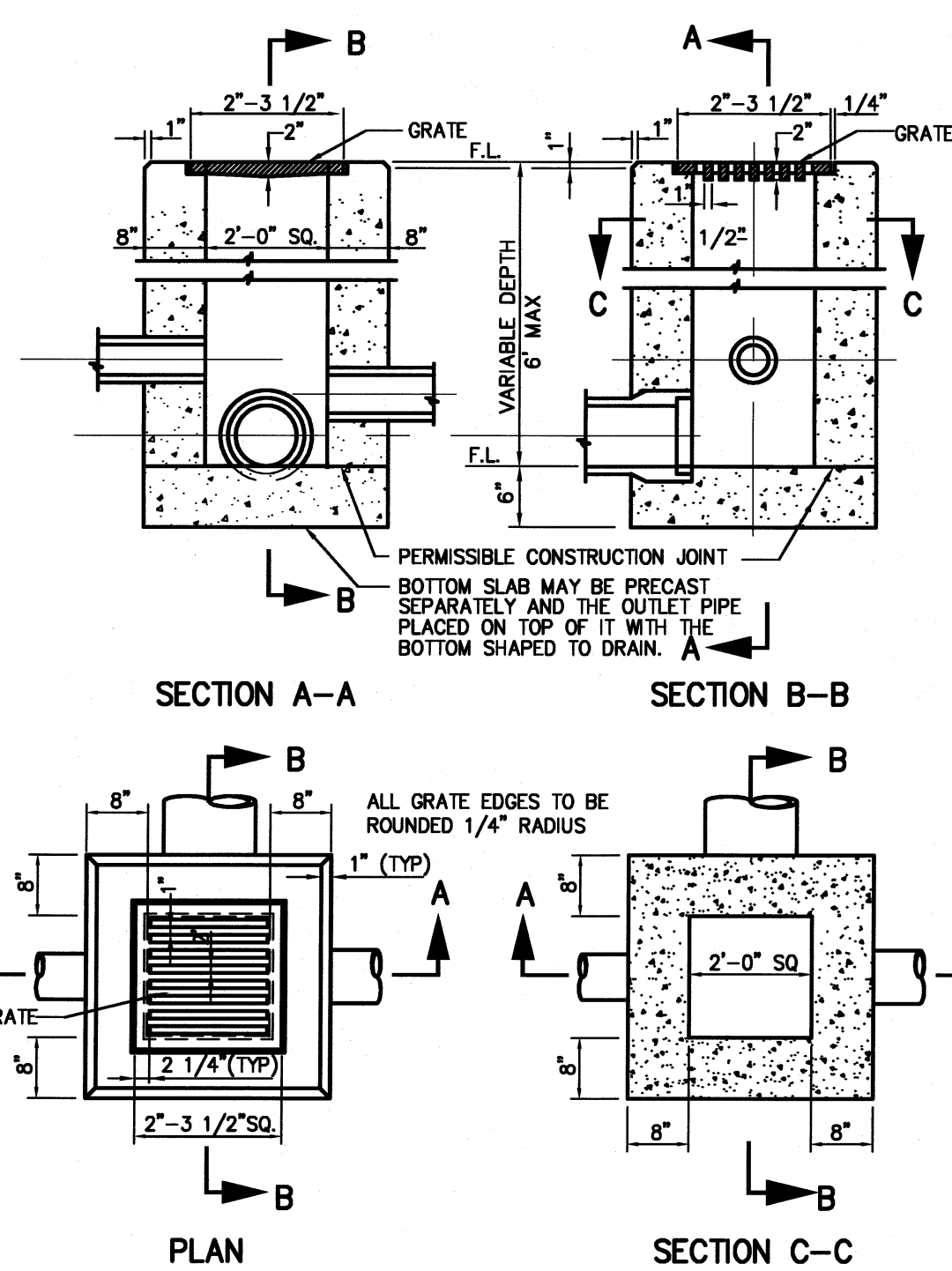
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TYP. SIDEWALK SLAB DETAIL  
N.T.S.

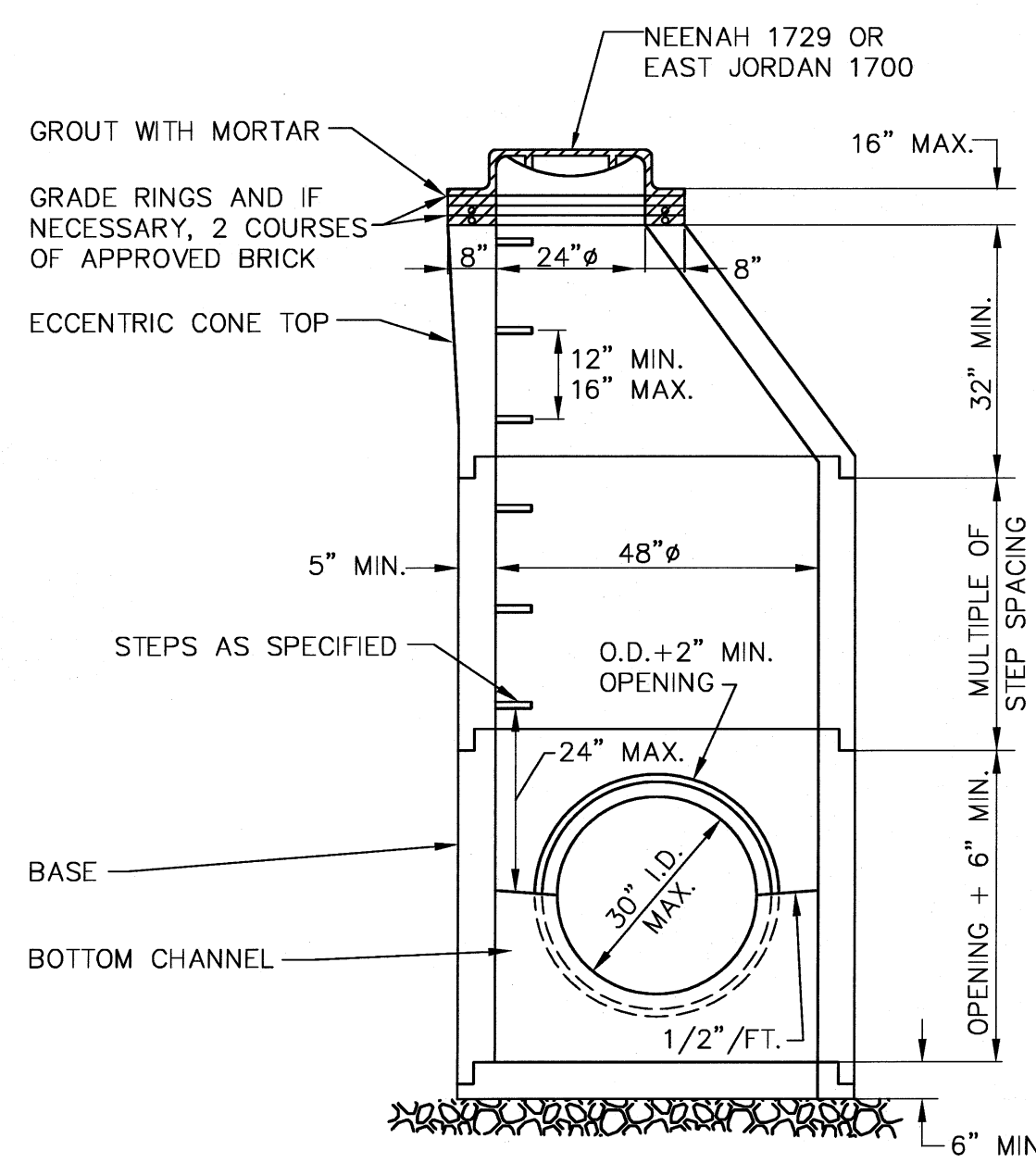


TYP. "RODENT-RUN" DETAIL  
N.T.S.



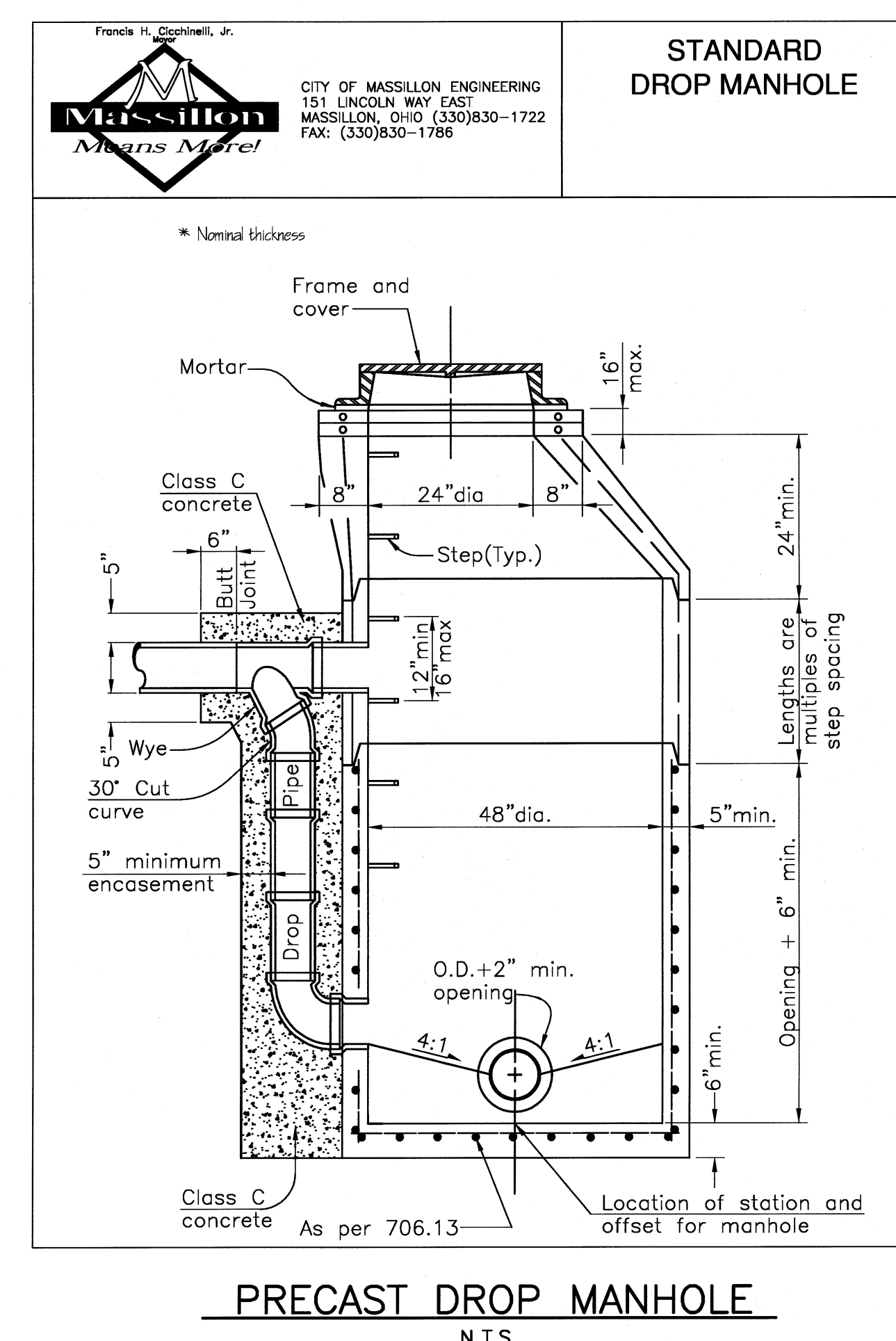
CATCH BASIN - ODOT 2-2-B  
N.T.S.

NOTES:  
LOCATION AND ELEVATION WHEN GIVEN ON THE PLANS IS TOP CENTER OF THE GRATE.  
CASTINGS SHALL BE AS EJW AS SHOWN ABOVE THIS DETAIL.  
BRICK, CONCRETE BLOCK OR CAST-IN-PLACE WALLS HAVE NOMINAL THICKNESS OF 8 INCHES. PRECAST WALLS SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES AND BE REINFORCED SUFFICIENTLY TO PERMIT SHIPPING AND HANDLING WITHOUT DAMAGE.  
CONCRETE, CAST-IN-PLACE, TO BE CLASS C. ALL PRECAST CONCRETE SHALL MEET THE REQUIREMENTS OF 706.13 WITH 6 ±2% AIR VOID CONTENT IN THE HARDENED CONCRETE, AND BE MARKED WITH CATCH BASIN NUMBER.  
OPENINGS FOR PIPES SHALL BE O.D. +2" WHEN FABRICATED OR FIELD CUT.



PRECAST CONCRETE STORM/SANITARY MANHOLE  
N.T.S.

- NOTES
- SECTIONS OF THE PRECAST MANHOLE SHALL BE CAST AND ASSEMBLED WITH EITHER ALL TONGUE OR ALL GROOVE ENDS UP. LIFT HOLES MAY BE PROVIDED IN EACH SECTION FOR HANDLING.
  - TOP AND TRANSITION (OR REDUCER) SECTIONS MAY BE EITHER ECCENTRIC CONE, CONCRETE CONE OR FLAT SLAB.
  - BASES FOR MANHOLES ARE SHOWN WITH MONOLITHIC FLOOR AND RISERS WHICH MAY BE CAST IN ONE OR TWO OPERATIONS. A PERMISSIBLE ALTERNATE IS TO CAST AND SHIP THE FLOOR AND BARREL SEPARATELY. OPENINGS FOR INLET AND OUTLET PIPES SHALL BE PROVIDED, EITHER WHEN THE UNIT IS CAST OR LATER, TO MEET PROJECT REQUIREMENTS. BOTTOM CHANNELS MAY BE FORMED OF CONCRETE PRECAST IN THE BASE OR BY FIELD CONSTRUCTION. BASES MAY ALSO BE POURED IN PLACE.
  - OPENINGS IN RISER SECTIONS FOR 18" AND SMALLER INLET PIPES SHALL BE PREFABRICATED. FLEXIBLE CONNECTIONS SHALL BE PROVIDED FOR SANITARY AND COMBINED SEWERS.
  - BRICK SHALL CONFORM TO ASTM C-32.
  - JOINT SEAL BETWEEN PRECAST MANHOLE SECTIONS ON SEWERS SHALL BE RESILIENT AND FLEXIBLE GASKET JOINTS PER ASTM C-443 OR LATEST EDITION.
  - MATERIALS FOR BASES AND OTHER PRECAST SECTIONS, INCLUDING REINFORCEMENT NOT SPECIFIED HEREON, SHALL COMPLY WITH THE SPECIFICATIONS.
  - PRECAST MANHOLE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-478.
  - SEAL LIFT HOLES WITH APPROVED CONCRETE PLUGS AND BIT.
  - MANHOLE STEPS - PLASTIC MEETING THE REQUIREMENTS OF ASTM 2146-68 TYPE II GRADE 49108 AND ODOT S.S. #941.



STANDARD DROP MANHOLE  
N.T.S.

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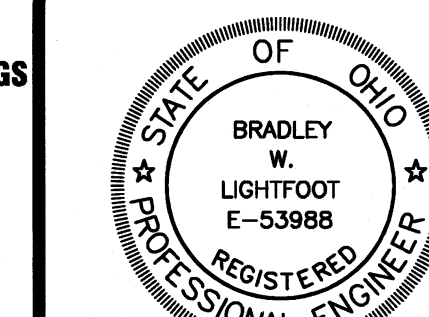
Project Number 09010	Sheet C7
Date 06-22-09	
Scale AS SHOWN	

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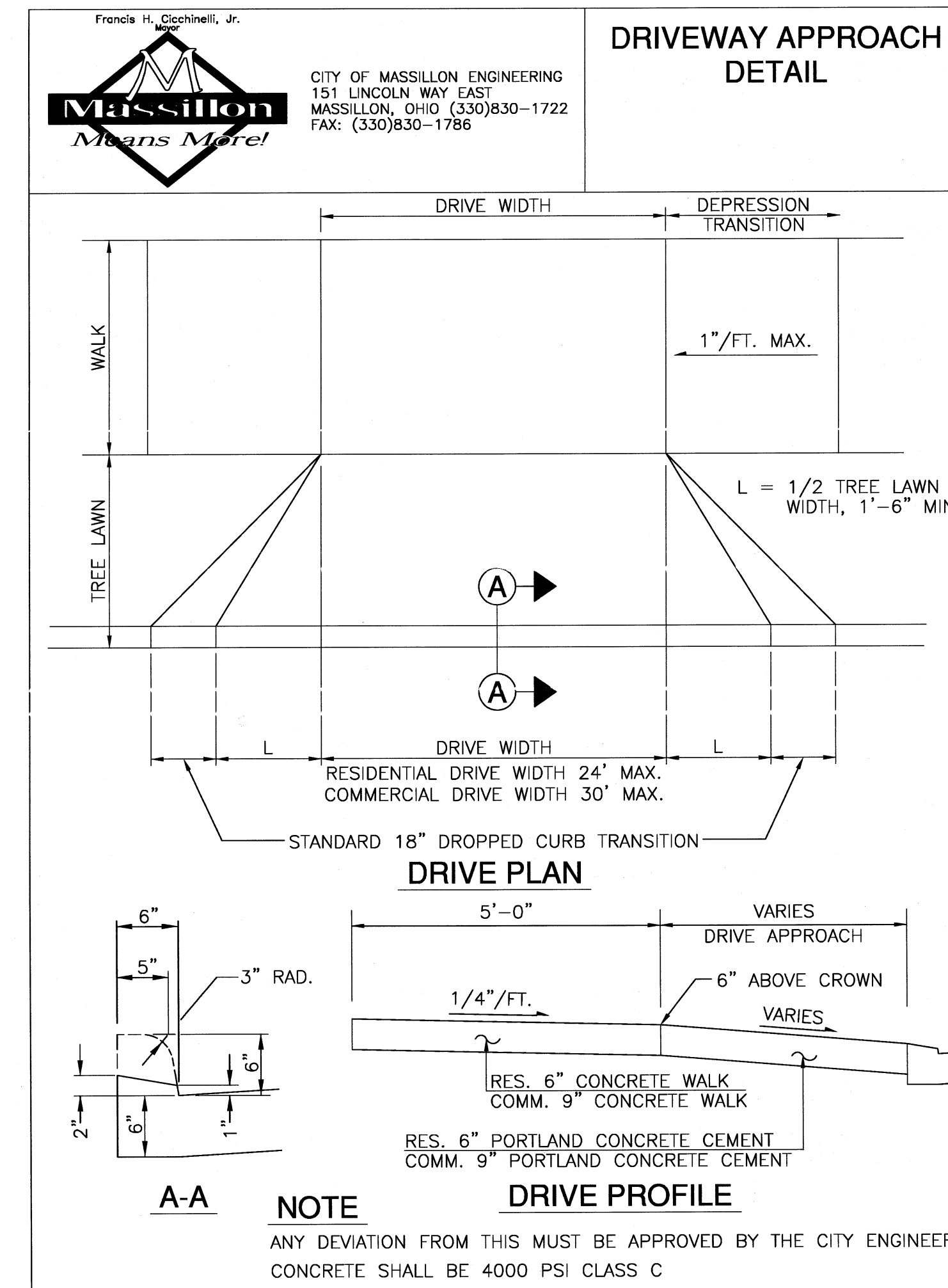
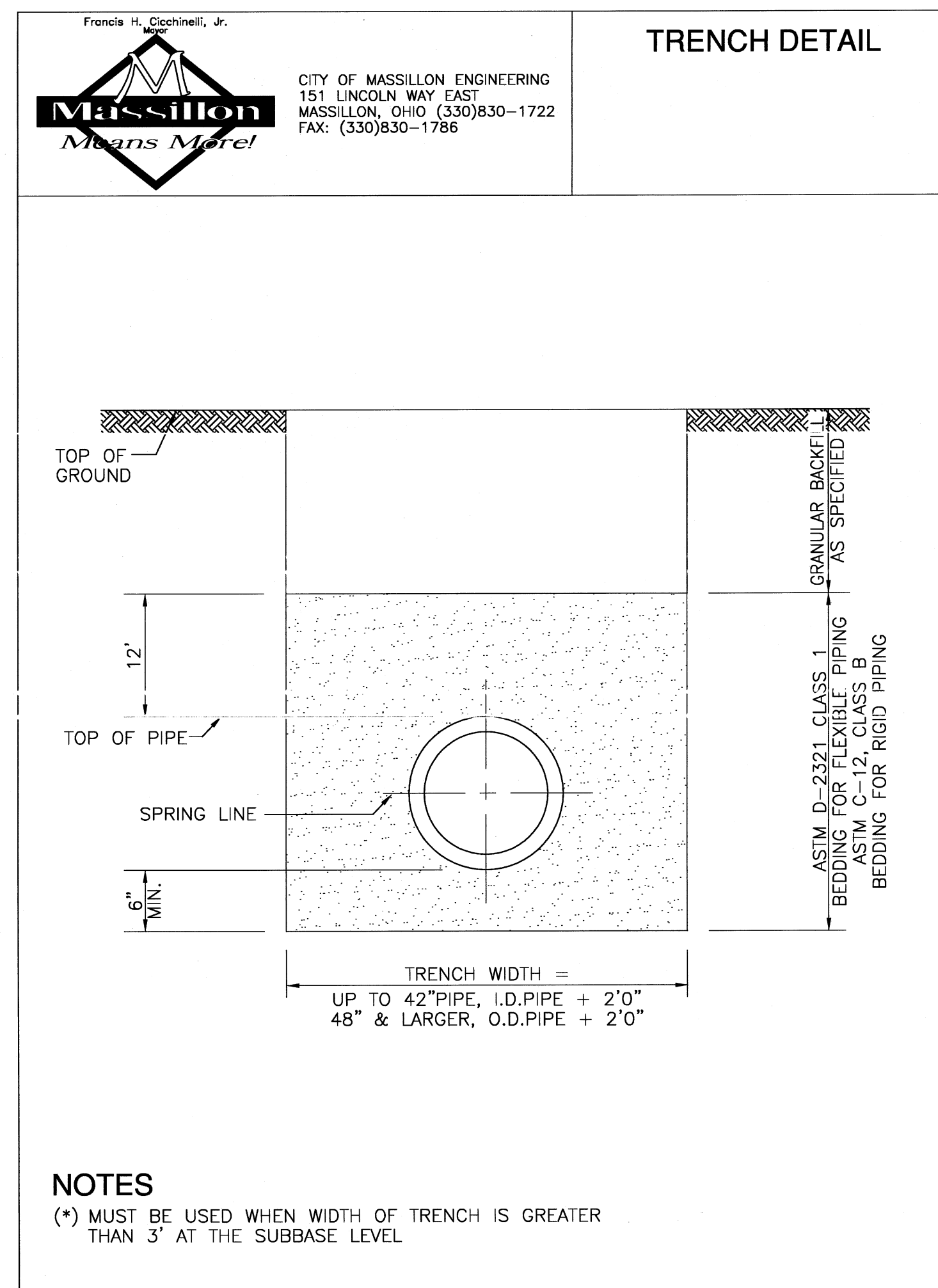
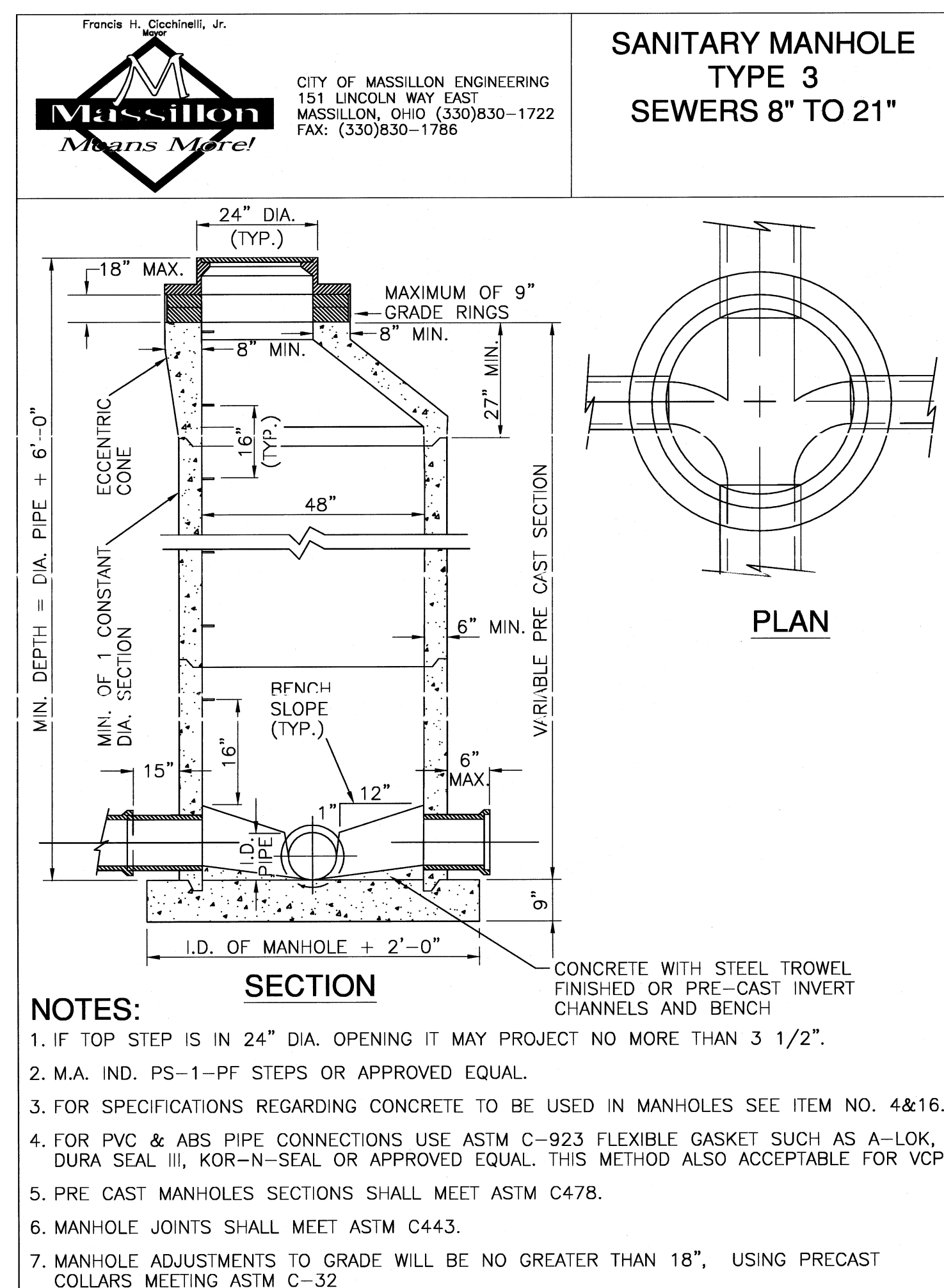


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4	00/00/00	AAAA
5	00/00/00	AAAA
6	00/00/00	AAAA

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#### SANITARY SEWER NOTES

1. SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO CITY OF MASSILLON ENGINEERING DEPARTMENT SPECIFICATIONS AND DETAILS IN EFFECT AT TIME OF CONSTRUCTION.
2. ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
3. THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS ALONG THE ROUTE OF THE SANITARY SEWER AT LEAST THREE (3) DAYS PRIOR TO START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL ALERT THE UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY MAINTAINING EXISTING SANITARY FLOW DURING THE CONSTRUCTION AND TESTING OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR'S METHODS FOR MAINTAINING FLOW MUST BE APPROVED BY THE CITY OF MASSILLON ENGINEERING DEPARTMENT AT THE PRE-CONSTRUCTION MEETING.
6. ALL ROUGH GRADING TO WITHIN SIX (6) INCHES OF FINISHED GRADE SHALL BE COMPLETED WITHIN THE RIGHT-OF-WAY AND EASEMENTS PRIOR TO SANITARY SEWER CONSTRUCTION.
7. BULKHEADS SHALL BE ERECTED IN EXISTING MANHOLES WHERE TAPS FOR NEW MAINLINE SEWERS ARE MADE AND SHALL REMAIN IN PLACE UNTIL THE NEW SEWERS ARE COMPLETE, TESTED AND APPROVED. IN CASES WHERE A BULKHEAD WOULD INTERRUPT THE FLOW FROM EXISTING SERVICE CONNECTIONS, THE BULKHEAD SHALL BE PLACED IN THE FIRST NEW MANHOLE UPSTREAM OF THE EXISTING MANHOLE.
8. MINIMUM VERTICAL CLEARANCE BETWEEN SANITARY SEWER AND WATERLINE SHALL BE 18 INCHES. MINIMUM HORIZONTAL SEPARATION SHALL BE 10 FT.
9. SANITARY SEWER SERVICE LATERALS SHALL BE 6-INCH DIAMETER AND BE LAID AT NO LESS THAN 1.0% GRADE.
10. FOR NEW SUBDIVISION CONSTRUCTION, SEWER SERVICE LATERALS SHALL EXTEND 12" INTO THE LOTS OR BEYOND FURTHEST UTILITY, WHICHEVER IS GREATER, WHEN THE MAIN SEWER IS IN A STREET RIGHT-OF-WAY, AND SHALL TERMINATE AT THE EASEMENT LINE WHEN THE MAIN SEWER IS IN AN EASEMENT. FOR OTHER SEWER EXTENSIONS, SEWER SERVICE LATERALS SHALL TERMINATE AT THE RIGHT-OF-WAY LINE OR THE EASEMENT LINE, WHICHEVER IS APPLICABLE.
11. SERVICE STACKS SHALL BE DUCTILE IRON PIPE REGARDLESS OF MAIN SEWER MATERIAL. A CAST IRON TEE SHALL BE INSTALLED IN THE MAIN SEWER. CONCRETE ENCASEMENT WILL NOT BE REQUIRED.

12. MINIMUM COVER OVER SANITARY SEWER SHALL BE 4 FT.

13. ACCEPTABLE SANITARY SEWER PIPE MATERIALS ARE AS FOLLOWS:

MATERIAL DESCRIPTION	SPECIFICATIONS		
	PIPE	JOINT	INSTALLATION
PVC SMOOTH EXTERIOR	ASTM D-3034	ASTM D-3212	ASTM D-2321
VCP EXTRA STRENGTH	ASTM C-700	ASTM C-425	ASTM C-12
DCIP (CLASS 52)	AWWA C-151	AWWA C-110/C-151	AWWA C-151
ABS COMPOSITE	ASTM D-2680	ASTM D-2235	ASTM D-2680
PVC COMPOSITE	ASTM D-2680	ASTM D-2564	ASTM D-2680

14. ALL SANITARY SEWERS, 8-INCH DIAMETER AND LARGER, MUST PASS AN INTERNAL TELEVISION INSPECTION. THE CONTRACTOR SHALL PROVIDE COMPLETE INTERNAL INSPECTION VIDEOTAPE TO THE CITY OF MASSILLON ENGINEERING DEPARTMENT. THE VIDEOTAPE INSPECTION SHALL BE IN ACCORDANCE WITH CITY OF MASSILLON ENGINEERING DEPARTMENT SPECIFICATIONS.

15. A DEFLECTION TEST SHALL BE REQUIRED FOR ALL FLEXIBLE PIPE OF 8-INCH DIAMETER AND LARGER. THE TEST SHALL BE CONDUCTED AT LEAST 30 DAYS AFTER COMPLETION OF BACKFILL AND SHALL BE IN ACCORDANCE WITH CITY OF MASSILLON ENGINEERING DEPARTMENT SPECIFICATIONS. THE ALLOWABLE DEFLECTION RATE SHALL NOT EXCEED FIVE (5%) PERCENT. TESTING SHALL BE IN ACCORDANCE WITH ASTM D-3034.

16. ALL SANITARY SEWERS MUST PASS A LOW PRESSURE AIR TEST, WHICH SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM F-1417 (PLASTIC PIPE) OR ASTM C-828 (CLAY PIPE). THE MAXIMUM ALLOWABLE TEST LEAKAGE SHALL BE 100 GAL/INCH OF DIAMETER/MILE/DAY.

17. MANHOLE CONSTRUCTION SHALL MEET THE REQUIREMENTS OF ASTM C-478 AND C-443. ALL MANHOLES SHALL BE AIR/VACUUM TESTED IN ACCORDANCE WITH AND MEET ALL THE REQUIREMENTS OF ASTM C-1244.

18. CONNECTIONS TO EXISTING MANHOLES SHALL BE CORE DRILLED, WITH BENCHES AND CHANNELS FORMED AND REPAIRED AS NECESSARY.

19. ANY MANHOLE DROP ATTACHMENTS SHALL BE "OUTSIDE" TYPE.

20. MANHOLE TOP OF CASTING ELEVATIONS MAY REQUIRE ADJUSTMENT DURING SITE GRADING. MANHOLE COVERS MAY NOT BE BURIED. UPON COMPLETION OF CONSTRUCTION AND RESTORATION, ALL MANHOLES, PROPOSED AND EXISTING, SHALL BE IN CONFORMANCE IN ALL RESPECTS WITH CITY OF MASSILLON ENGINEERING DEPARTMENT SPECIFICATIONS AND DETAILS.

21. PRE-CONSTRUCTION MEETING IS REQUIRED, CONTACT CITY OF MASSILLON ENGINEERING DEPARTMENT AT 330-830-1722 AND STARK SOIL AND WATER DISTRICT AT 330-830-7700.

22. SANITARY PERMITS ARE REQUIRED, CONTACT THE CITY OF MASSILLON ENGINEERING DEPARTMENT FOR LICENSE AND PERMIT REQUIREMENTS.

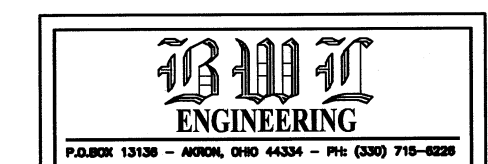
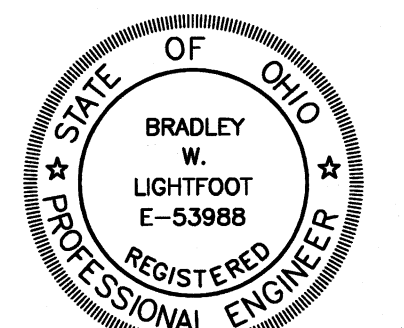
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