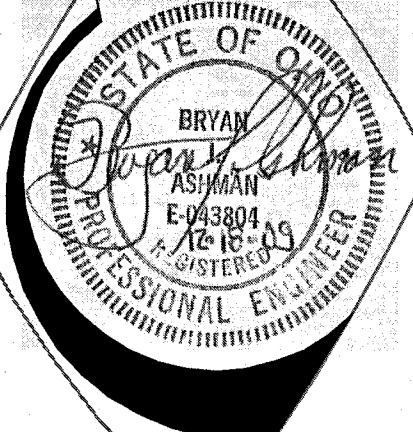


1359 MARKET  
AVENUE NORTH  
CANTON, OHIO  
44714

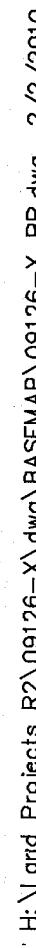


1888 Southway Street SE Massillon OH 44646

A circular professional engineer seal for the State of Ohio. The outer ring contains the text "STATE OF OHIO" at the top and "PROFESSIONAL ENGINEER" at the bottom. Inside the ring, the name "BRYAN ASMAHAN" is printed. Below the name is the license number "E-493804" and the expiration date "12-16-19". The seal is partially obscured by a large, stylized signature "Bryan Asmahan" written in blue ink across it.

C-101

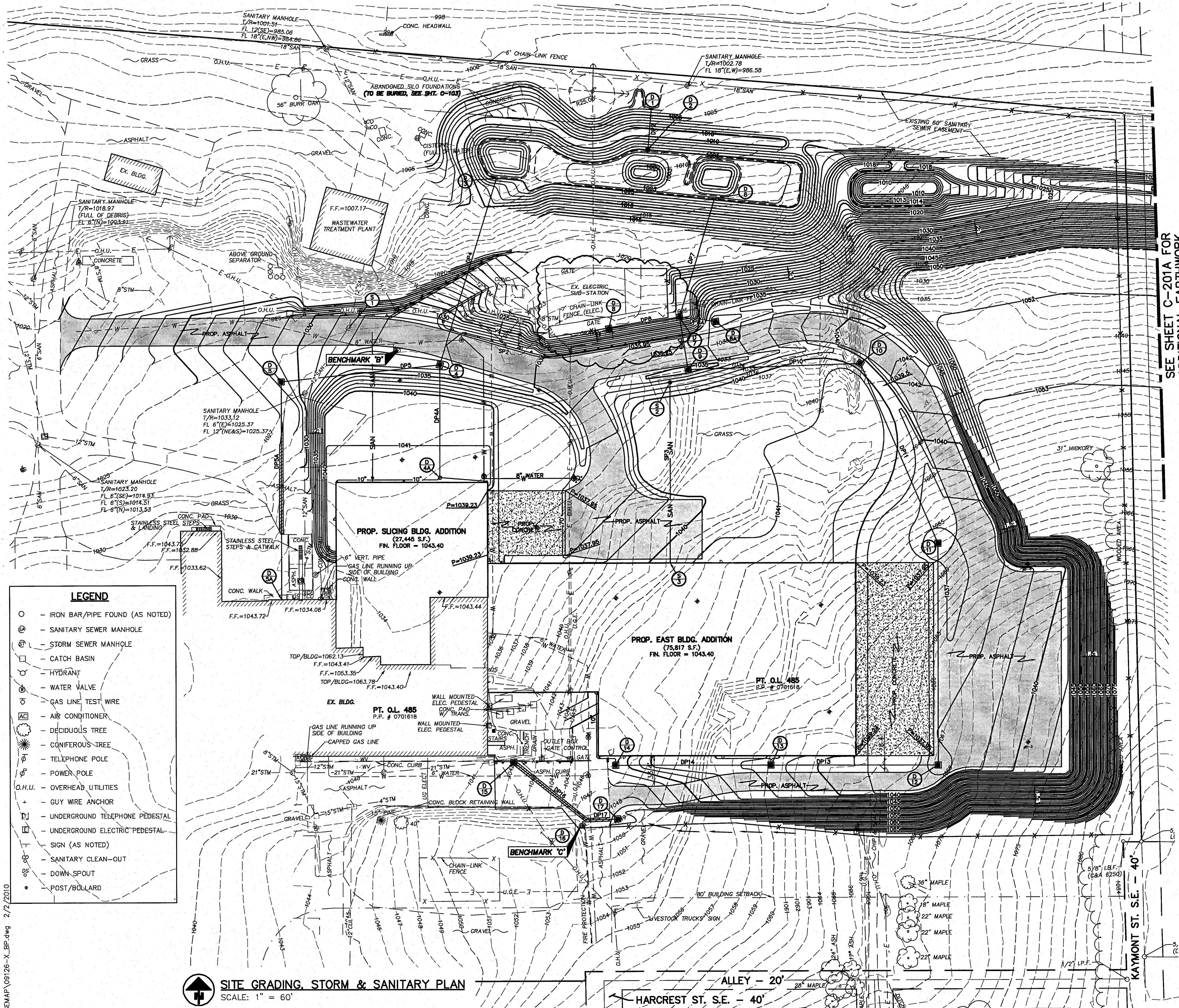




**BENCHMARK 'C':**  
TOP OPERATING NUT OF  
HYDRANT LOCATED APPROX.  
130' S.E. OF THE EX. S.E.  
BUILDING CORNER  
**ELEV. = 1051.58**

C-101A





**BENCHMARK 'B':**  
TOP OPERATING NUT OF  
HYDRANT LOCATED APPROX.  
160' N. OF THE PROP.  
SLICING BUILDING ADDITION  
**ELEV. = 1029.15**

**BENCHMARK 'C':**  
TOP OPERATING NUT OF  
HYDRANT LOCATED APPROX.  
130' S.E. OF THE EX. S.E.  
BUILDING CORNER  
**ELEV. = 1051.58**

**PROPOSED SANITARY DATA**

S1: EX. MANHOLE  
T/RIM=1031.63  
PROP. F/L 8"(E)=1024.38  
F/L 12"(N,S)=1023.88

SP2: 357 L.F. 8" SAN SEWER R=1.85%

S2: ODOT M.H. No. 3  
T/RIM=1037.00  
F/L 8"(W,S)=1031.00

SP3: 208 L.F. 8" SAN SEWER R=2.40%

S3: CLEAN-OUT  
(SEE ARCHITECTURAL PLANS)  
T/RIM=1041.25  
F/L 8"(N,S)=1036.00

2 WORKING DAYS  
BEFORE YOU DIG  
CALL TOLL FREE 800-362-2764  
OHIO UTILITIES PROTECTION SERVICE

NOTE: GENERAL REVISION 12/03/09 CREATED  
2 SITE PLAN SHEETS ISOLATING DEMOLITION &  
GEOMETRIC ITEMS FROM GRADING, STORM &  
SANITARY ITEMS FOR BETTER CLARITY.

**EARTHWORK SUMMARY**

NOTE: THE FOLLOWING EARTHWORK SUMMARY WAS GENERATED  
BY COMPARING THE EXISTING CONTOURS TO THE PROPOSED  
CONTOURS REPRESENTED ON THIS PLAN. THE BUILDINGS  
SUBGRADE ELEVATION (FINISHED FLOOR - 8") WAS USED FOR  
THE BUILDING ELEVATION. THE FILL VOLUME INCLUDES AN  
ASSUMED 10% COMPACTION FACTOR.

CUT = 122,000 C.Y.  
FILL = 110,500 C.Y. x 1.1 = 122,000 C.Y. \*  
NET = BALANCED SITE

\* FILL OPERATIONS SHALL BE PERFORMED UNDER THE  
SUPERVISION AND DIRECTION OF THE OWNER'S  
GEOTECHNICAL ENGINEER.

**PROPOSED STORM DATA**

D1: HEADWALL  
(ODOT HW-2.1 OR HW-2.2)  
F/L 24"(S)=1001.50

DP2: 43 L.F. 24" STM SEWER R=2.33%

D2: ODOT C.B. 2-3  
(CONTROL STRUCTURE)  
T/GRATE=1008.00  
F/L 6" WINDOW (S)=1007.08  
F/L 15" CRITIC(S)=1005.50  
F/L 2.5"(ORIFICE)(S)=1003.00  
F/L 4"(S)=1003.00  
F/L 24"(N)=1002.50

D3: HEADWALL  
(ODOT HW-2.1 OR HW-2.2)  
F/L 15"(S)=1004.50

DP4: 213 L.F. 15" STM SEWER R=7.86%

D4: ODOT M.H. No. 3  
(WITH OPEN GRATE)  
T/GRATE=1032.00  
F/L 10"(S)=1029.50  
F/L 15"(W,N)=1021.25

DP4A: 123 L.F. 10" STM SEWER R=5.69%

D4A: NYLOPLAST 18" DRAIN BASIN  
BY HANCOR (W/ STANDARD GRATE)  
T/GRATE=1041.25  
F/L 8"(E)=1036.67  
F/L 10"(W,N)=1036.50

DP5: 175 L.F. 15" STM SEWER R=1.00%

D5: ODOT C.B. 2-2B  
T/GRATE=1028.00  
F/L 12"(S)=1023.25  
F/L 15"(E)=1023.00

DP5A: 236 L.F. 12" STM SEWER R=2.86%

D5A: CLEAN-OUT  
(SEE ARCHITECTURAL PLANS)  
T/RIM=1033.65  
F/L 12"(S,N)=1030.00

D6: HEADWALL  
(ODOT HW-2.1 OR HW-2.2)  
F/L 24"(W,N)=1005.44

DP7: 134 L.F. 24" STM SEWER R=11.59%

D7: ODOT C.B. 2-3  
T/GRATE=1024.50  
F/L 8"(W)=1022.00  
F/L 12"(E)=1021.50  
F/L 24"(S,N,E)=1021.00

DP8: 78 L.F. 8" STM SEWER R=1.28%

D8: ODOT C.B. 2-2B  
T/GRATE=1025.00  
F/L 8"(E)=1023.00

DP8A: 40 L.F. 12" STM SEWER R=21.25%

D8A: ODOT C.B. 2-2A  
T/GRATE=1035.00  
WINDOW (E)=1034.50  
F/L 12"(W)=1030.00

DP9: 58 L.F. 24" STM SEWER R=8.62%

D9: ODOT M.H. No. 3  
(WITH OPEN GRATE)  
T/GRATE=1034.00  
F/L 8"(S)=1028.04  
(INTERCEPT EXIST. DRAIN)  
F/L 24"(N,E)=1026.00

DP10: 188 L.F. 24" STM SEWER R=1.84%

D10: ODOT M.H. No. 3  
(WITH OPEN GRATE)  
T/GRATE=1039.00  
F/L 24"(W,S,E)=1029.45

DP11: 213 L.F. 24" STM SEWER R=1.20%

D11: ODOT C.B. 2-3  
T/GRATE=1036.00  
F/L 24"(NW,S)=1032.01

DP12: 240 L.F. 24" STM SEWER R=0.50%

D12: ODOT C.B. 2-3  
T/GRATE=1037.50  
F/L 15"(W)=1033.98  
F/L 24"(N)=1033.21

DP13: 183 L.F. 15" STM SEWER R=1.66%

D13: ODOT C.B. 2-2B  
T/GRATE=1041.50  
F/L 10"(N)=1037.42  
F/L 15"(E,W)=1037.00

DP14: 170 L.F. 15" STM SEWER R=1.47%

D14: ODOT C.B. 2-2B  
T/GRATE=1045.00  
F/L 10"(N)=1039.50  
F/L 15"(E)=1039.50

D15: ODOT 2-2B  
T/GRATE=1042.00  
F/L 12"(SE)=1038.00  
EX. F/L 15"(E,W)=1037.07

DP16: 102 L.F. 12" STM SEWER R=6.70%

D16: EX. CATCH BASIN  
T/GRATE=1048.33  
PROP. F/L 12"(E)=1045.00  
F/L 12"(NW)=1044.83

DP17: 34 L.F. 12" STM SEWER R=1.47%

D17: ODOT C.B. 2-2B  
T/GRATE=1048.00  
F/L 12"(W)=1045.50

**PLANS PREPARED BY:**  
**COOPER & ASSOCIATES, LLP**  
ENGINEERS AND SURVEYORS

BRYAN J. ASHMAN JEROLD E. GEIB

PHONE (330) 452-5731  
FAX No.(330) 452-9110

**STRUCTURA**

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Akron, OH 44303

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changes.

8/4/2009

No.	Date
2	12-03-09
3	12-10-09
4	12-17-09
5	02-02-10

Project Name

**Fresh Mark**

**Raw Bacon Addition**

1888 Southway Street SE, Massillon, OH 44646

description

**SITE GRADING, STORM  
& SANITARY PLAN**

File Number

09126 Raw Bacon Addition

STATE OF OHIO  
BRYAN J. ASHMAN  
REGISTERED PROFESSIONAL ENGINEER  
No. 12410

C-101B



ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE CODES AND ORDINANCES OF THE CITY OF MASSILLON.

2. SITE WORK SPECIFICATIONS ALL ITEM NUMBERS REFER TO THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, 2008 EDITION, ALL EQUIPMENT, MATERIAL AND WORKMANSHIP SHALL BE PERFORMED ACCORDING TO THE STANDARD SPECIFICATIONS AND ANY OHIO DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION DRAWINGS (SCD) REFERENCED ON THE PLANS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THIS PROJECT.

4. THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.694 ORC, LISTED BELOW ARE THE UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

ELECTRIC: FIRST ENERGY 1910 W. MARKET, BLDG. 1 AKRON, OHIO 44314 ATT: KEN DOWNS PH: (330) 384-4839	TELEPHONE: SBC 560 W. BOWERY STREET, 6TH FLOOR AKRON, OHIO 44308 ATT: JIM SIEGMUND PH: (330) 384-3947
CABLE TELEVISION: MASSILLON CABLE TV 814 CABLE CT. NW MASSILLON, OHIO 44648 ATT: JEFF CAMPBELL PH: (330) 833-4134	WATER: AQUA OHIO INC. 870 3RD STREET N.W. MASSILLON, OHIO 44647 ATT: DON SNYDER PH: (330) 332-7664 EXT. 205
GAS: DOMINION EAST OHIO 7015 FREEDWAY AVE. N.W. NORTH NORTON, OHIO 44720 ATT: HARVEY YERGIN PH: (330) 286-2049	SANITARY SEWER: CITY OF MASSILLON ENGINEERS MUNICIPAL GOVT. ANNEX 1001 LINCOLN WAY EAST MASSILLON, OHIO 44646 ATT: KEITH A. DYLEWSKI, PE PH: (330) 330-1722

5. EXISTING FIELD CONDITIONS SHALL BE FIELD CHECKED AND VERIFIED BY THE CONTRACTOR PRIOR TO BIDDING. SHOULD THERE BE ANY DISCREPANCY BETWEEN THE PLANS AND EXISTING FIELD CONDITIONS; THE CONTRACTOR SHALL SEEK WRITTEN CLARIFICATION FROM THE OWNER'S REPRESENTATIVE PRIOR TO THE BID SUBMISSION.

6. SHOULD THE CONTRACTOR ENCOUNTER CONFLICT BETWEEN THESE PLANS AND SPECIFICATIONS, EITHER AMONG THE SPECIFICATIONS OR WITH THE REQUIREMENTS OF ANY AND ALL REGULATING AND PERMIT-ISSUING AGENCIES, THE CONTRACTOR SHALL SEEK CLARIFICATION IN WRITING FROM THE OWNER'S REPRESENTATIVE PRIOR TO BID SUBMISSION.

7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO USE CONSTRUCTION MEANS AND METHODS THAT WILL PROTECT PROPERTY AND PREVENT BODILY INJURY AND/OR DEATH. THE CONTRACTOR SHALL COMPLY WITH THE SAFETY REQUIREMENTS OF CITY, STATE, AND FEDERAL GOVERNMENTS.

8. CONSTRUCTION SHALL BE PERFORMED, AND EQUIPMENT STORED, IN A MANNER WHICH PERMITS EXISTING FACILITIES TO OPERATE WITHOUT INTERRUPTION.

9. THE CONTRACTOR SHALL PERFORM WORK SO AS TO NOT DISTURB, DAMAGE OR DESTROY ANY MAILBOX, PAPER BOX, TELEPHONE OR POWER POLES, SIGNS, AND LANDSCAPING ITEMS, ETC. ANY ITEM DISTURBED OR IN CONFLICT WITH THE WORK TO BE PERFORMED SHALL BE REMOVED AND RESET AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE NOTED ON THE PLANS.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING AND GRUBBING, WHICH SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ANY AND ALL REGULATING AND PERMIT-ISSUING AGENCIES. GRUBBING, SCALPING, REMOVAL OF TREES AND STUMPS, AND REMOVING AND DISPOSING OF ALL VEGETATION AND DEBRIS WITHIN THE LIMITS DESIGNATED ON THE PLANS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF STRUCTURES AND OBSTRUCTIONS. THIS WORK SHALL CONSIST OF THE REMOVAL, WHOLLY OR IN PART, AND SATISFACTORY DISPOSAL OF ALL BUILDINGS, FENCES, GARAGES, AND STRUCTURES, OLD PAVED PIPE LINES, STORAGE TANKS, PRYMA VAULTS, AND ANY OTHER OBSTRUCTIONS WHICH ARE NOT DESIGNATED OR PERMITTED TO REMAIN, EXCEPT FOR THE OBSTRUCTIONS TO BE REMOVED UNDER OTHER ITEMS IN THE DESIGN PLANS.

12. THE CONTRACTOR SHALL PERFORM EXCAVATION AND EMBANKMENT ACTIVITIES IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 203. THIS WORK SHALL CONSIST OF PREPARATION OF AREAS UPON WHICH EXCAVATIONS ARE TO BE PLACED, EXCAVATION AS REPRESENTED ON THE PLANS, INCLUDING THE REMOVAL OF ALL MATERIAL ENCOUNTERED NOT BEING REMOVED UNDER ANOTHER ITEM; CONSTRUCTING EMBANKMENTS WITH THE EXCAVATED MATERIAL AND MATERIAL FROM OTHER SOURCES NECESSARY TO COMPLETE THE PLANNED EMBANKMENTS; FURNISHING AN IN-PLACE, UNDISTURBED, WORKING SUBGRADE; PREPARING THE SUBGRADE; TESTING THE STABILITY AND UNIFORMITY OF COMPACTION OF THE SUBGRADE FOR AREAS SPECIFICALLY CALLED FOR ON THE PLANS; ALL IN CLOSE CONFORMITY WITH THE LINES, GRADES, AND THICKNESSES SHOWN ON THE PLANS.

13. THE CONTRACTOR MUST MEET THE FOLLOWING COMPACTION REQUIREMENTS:

A.) RELATIVE COMPACTION UNDER BUILDINGS (TO WITHIN 5 FT. OF BUILDING LIMITS) AND UNDER PAVEMENT AREAS SHALL MEET 100% OF THE "STANDARD" PROCTOR MAXIMUM DRY DENSITY WITH A WATER CONTENT WITHIN  $\pm 2\%$  OF THE LABORATORY "OPTIMUM WATER CONTENT".

B.) RELATIVE COMPACTION WITHIN UTILITY TRENCHES SHALL MEET 95% OF THE "STANDARD" PROCTOR MAXIMUM DRY DENSITY WITH A WATER CONTENT WITHIN  $\pm 2\%$  OF THE LABORATORY "OPTIMUM WATER CONTENT".

C.) RELATIVE COMPACTION WITHIN YARD AREAS SHALL MEET 90% OF THE "STANDARD" PROCTOR MAXIMUM DRY DENSITY WITH A WATER CONTENT WITHIN  $\pm 3\%$  OF THE LABORATORY "OPTIMUM WATER CONTENT".

14. WHEREVER UNSTABLE SOIL SUBGRADE CONDITIONS ARE ENCOUNTERED THAT ARE UNSUITABLE PER ODOT 204 SPECIFICATIONS, ADDITIONAL EXCAVATION AND SUBSEQUENT BACKFILLING SHALL BE DONE BY THE CONTRACTOR UNTIL SUCH CONDITIONS ARE CORRECTED. THIS WORK SHALL BE LISTED IN THE BID AS A CONTINGENCY ITEM, WITH A UNIT PRICE PER CUBIC YARD.

15. SUBGRADE TESTING OR PROOF ROLLING MUST BE WITNESSED AND APPROVED BY THE OWNER OR A QUALIFIED INDIVIDUAL DESIGNATED BY THE OWNER.

16. STORM SEWERS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 603. BEDDING AND BACKFILL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT STANDARD CONSTRUCTION DRAWING (SCD) DM-1.4 -- CONDUIT INSTALLATION.

17. UNLESS OTHERWISE NOTED, ALL STORM SEWER INSTALLATIONS ARE TO BE INSTALLED USING TYPE B CONDUITS WITH CLASS B BEDDING IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 603. THE FOLLOWING PIPE A.) REINFORCED CONCRETE PIPE (RCP) IN ACCORDANCE WITH ODOT ITEM 706.02 B.) HIGH-DENSITY CORRUGATED POLYETHYLENE (HDPE) SMOOTH LINED PIPE IN ACCORDANCE WITH ODOT ITEM 706.03 C.) POLYVINYL CHLORIDE SOLL WALL PIPE (PVC) IN ACCORDANCE WITH ODOT ITEM 707.45, 8" DIAMETER AND SMALLER ONLY.

18. DOWNSPOUT LEADERS ARE TO BE CONSTRUCTED AT A MINIMUM RATE OF 1.00X.

19. CONSTRUCT ALL MANHOLES, CATCH BASINS, AND INLETS REPRESENTED ON THE PLANS IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 604. THIS SHALL INCLUDE ALL APPURTENANCES NECESSARY TO PROVIDE A COMPLETE FINISHED STRUCTURE, SUCH AS CAST FRAMES, GRATES, COVERS, STEPS AND OTHER SPECIFIED MATERIALS.

20. ALL CATCH BASINS LOCATED IN PAVED AREAS SHALL BE EQUIPPED WITH BICYCLE SAFE GRATES.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MATERIALS AND INSTALLATION OF THE PROPOSED SANITARY SERVICE SEWER. MATERIAL AND INSTALLATION SPECIFICATIONS SHALL BE IN ACCORDANCE WITH THE CITY OF MASSILLON. THE SIZE OF LOCAL MATERIALS AND INSTALLATION SPECIFICATIONS SHALL BE 6 IN. DIAMETER PVC IN ACCORDANCE WITH ASTM D-3034, WITH JOINTS IN ACCORDANCE ASTM D-3212, AND BEDDING IN ACCORDANCE WITH ASTM D-2321, AND SHALL BE LAID AT A RATE NO LESS THAN ONE PERCENT (1.00%).

22. A SANITARY SEWER CONNECTION PERMIT IS REQUIRED, CONTACT THE CITY OF MASSILLON ENGINEERING DEPARTMENT FOR LICENSE AND PERMIT REQUIREMENTS.

23. FOR DETAILS AND SPECIFICATIONS REGARDING THE TELEPHONE AND ELECTRICAL SERVICES, REFER TO THE ELECTRICAL PLANS.

24. THE SITE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR MATERIALS AND INSTALLATION FOR THE PROPOSED WATER GAS AND SANITARY SEWER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION, PROCEDURES AND MATERIAL SPECIFICATIONS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF THESE UTILITIES WITH THE RESPECTIVE UTILITY OWNERS. REFER TO THE PLUMBING AND MECHANICAL PLANS FOR CONTINUATION OF UTILITIES INTO THE BUILDING.

25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRIPPING AND STOCKPILING TOPSOIL IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 651. THIS WORK SHALL CONSIST OF STRIPPING TOPSOIL FROM DESIGNATED AREAS WITHIN THE WORK LIMITS, TRANSPORTING AND STORING IN PILES AT LOCATIONS DESIGNATED BY THE OWNER.

26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING STOCKPILED TOPSOIL IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 652. THIS WORK SHALL CONSIST OF HAULING AND SPREADING TOPSOIL FROM STOCKPILES, AND PREPARING THE SUBGRADE.

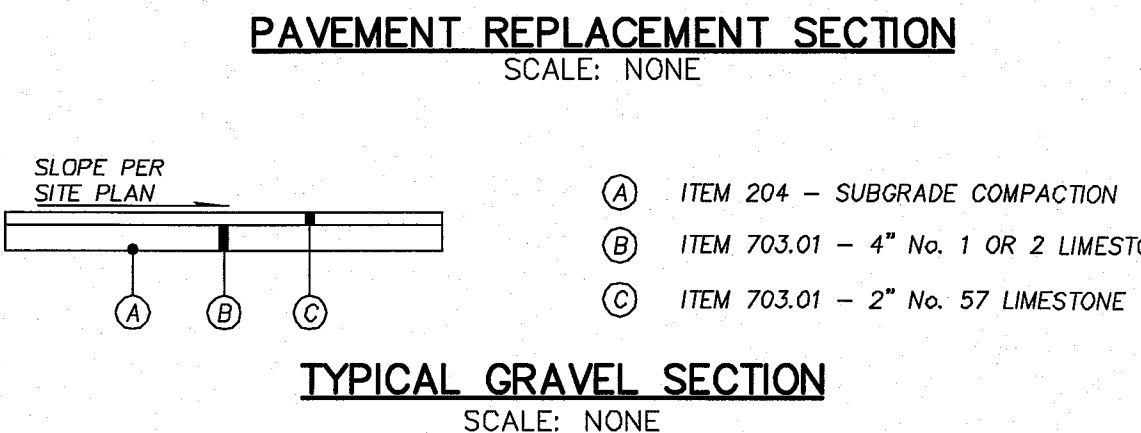
27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING AND MULCHING ALL DISTURBED AND PROPOSED YARD AREAS IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 659. THIS WORK SHALL CONSIST OF FURNISHING ALL SEED, FERTILIZER, MULCH, AND OTHER MATERIALS, COMMERCIAL FERTILIZER, MULCHING MATERIAL, AND WATER, AND PLACING AND INCORPORATING WHERE NECESSARY.

28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 614. THIS WORK SHALL CONSIST OF MAINTAINING AND PROTECTING VEHICULAR AND PEDESTRIAN TRAFFIC AS NECESSARY.

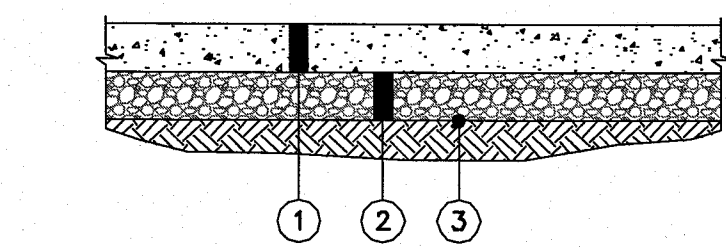
29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL IN ACCORDANCE WITH THE REQUIREMENTS OF ODOT ITEM 616. THIS WORK SHALL CONSIST OF APPLYING, WHEN ORDERED, WATER OR DUST PALLIATIVE FOR THE ALLEVATION OR PREVENTION OF DUST NUISANCE ORIGINATING FROM THE PROJECT SITE.

30. SEE THE STORM WATER POLLUTION PREVENTION PLAN (SWPP) (SHEET C-201), FOR EROSION CONTROL

1. ALL SANITARY SEWER AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO MASSILLON CITY ENGINEERING DEPARTMENT SPECIFICATIONS IN EFFECT AT THE TIME OF CONSTRUCTION.
2. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
3. MINIMUM COVER OVER ALL SANITARY SEWERS MUST BE 4.0 FEET.
4. ALL SANITARY SEWERS 8" DIAMETER AND LARGER, MUST PASS INTERNAL TELEVISION INSPECTION. THE CONTRACTOR SHALL PROVIDE COMPLETE INTERNAL INSPECTION VIDEO TAPE TO THE SANITARY ENGINEERING DEPARTMENT. THE VIDEO TAPING PROCEDURE MUST BE IN ACCORDANCE WITH CITY OF MASSILLON SANITARY ENGINEERING DEPARTMENT SPECIFICATIONS.
5. PRIOR OR THE START OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE CITY OF MASSILLON ENGINEERING DEPT., (330-830-1722) TO SCHEDULE A PRE-CONSTRUCTION MEETING. A MINIMUM OF 3 DAYS NOTICE IS REQUIRED TO SCHEDULE THIS MEETING.
6. SANITARY SEWER MAY BE ANY OF THE FOLLOWING MATERIALS, HOWEVER THE COMPLETE SYSTEM MUST BE UNIFORM IN PIPE MATERIAL.
  - A. VCP EXTRA STRENGTH A.S.T.M. C-700 WITH COMPRESSION TYPE JOINTS IN CONFORMANCE WITH A.S.T.M. C-425.
  - B. A.B.S. COMPOSITE PIPE A.S.T.M. D-2680 WITH CHEMICALLY WELDED PREMIUM JOINTS IN CONFORMANCE WITH A.S.T.M. D-2235, BEDDING PER A.S.T.M. D-2680.
  - C. P.V.C. PIPE A.S.T.M. D-3034, S.D.R. 35 MAXIMUM WITH GASKETED PREMIUM JOINTS A.S.T.M. D-3212. BEDDING PER A.S.T.M.-2321.
7. THE CONTRACTOR SHALL CORE DRILL THE EXISTING SANITARY MANHOLE (S1) AT THE LOCATION DESIGNATED ON THESE PLANS, INSTALL A FLEXIBLE BUTYLENE RESIN CONNECTOR THAT CONFORMS TO ASTM G923, SEAL THE CONNECTION WITH A 2" CORE DRILL MORTAR. CONSTRUCT A FORMED INVERT TO PROMOTE FLOW TO THE NORTH THROUGH THE MANHOLE AND INSTALL A BULKHEAD ON THE PROPOSED SEWER UNTIL SUCH TIME THE PROPOSED SANITARY SEWER HAS BEEN TESTED AND APPROVED BY THE MASSILLON CITY ENGINEER, AT WHICH TIME THE BULKHEAD SHALL BE REMOVED. ALL ITEMS DESCRIBED ABOVE SHALL BE COVERED IN THE CONTRACTORS BID PRICE TO CONNECT INTO THE EXISTING SEWER.
8. MANHOLE AND TRENCHES SHALL BE PER MASSILLON DETAILS DRAWINGS.
9. CONTRACTOR MUST CONSTRUCT ALL WATER LINES AS NECESSARY TO MAINTAIN A MINIMUM OF 18" VERTICAL CLEARANCE AND 10' HORIZONTAL CLEARANCE WITH THE SANITARY SEWER AND A MINIMUM OF 12" VERTICAL CLEARANCE WITH THE STORM SEWER.
10. 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 THE CITY OF MASSILLON SANITARY ENGINEERING DEPARTMENT SPECIFICATIONS. THE ALLOWABLE DEFLECTION RATE SHALL NOT EXCEED FIVE (5%) PERCENT. TESTING SHALL BE IN ACCORDANCE WITH A.S.T.M. D-3034.
11. ALL SANITARY SEWERS MUST PASS A LOW PRESSURE AIR TEST, WHICH SHALL BE CONDUCTED IN ACCORDANCE WITH CITY OF MASSILLON SANITARY ENGINEERING DEPARTMENT SPECIFICATIONS. THE MAXIMUM ALLOWABLE TEST LEAKAGE SHALL BE 100 GAL./INCH. OF DIAMETER/MILE/DAY.
12. MANHOLE CONSTRUCTION SHALL MEET THE REQUIREMENTS OF A.S.T.M. C-478 AND C-443. ALL MANHOLES SHALL BE AIR/VACUUM TESTED IN ACCORDANCE WITH AND MEET ALL THE REQUIREMENTS OF A.S.T.M. C1244.



LOT OWNERSHIP TABLE				
LOT No.	OWNER	PARCEL No.	ZONED	
PT 13999	GENSHAFAT LEONA TRUSTEE ETAL	0900249	NONE	
PT OL 481	FRESH MARK INC.	0701291	I-1	
PT OL 984	RUSSELL L. BOUGHMAN	0701544	I-1	
OL 484	SCOTT A. & ANGELA C. BUSH	0701733	I-1	
12837	FRESH MARK INC.	0700107	R-1	
12842	FRESH MARK INC.	0700106	R-1	
12846	FRESH MARK INC.	0700112	R-1	
12845	EUGENE B. & BONITA L. YEAGER	0700120	B-1	
12824	FRESH MARK INC.	0700090	R-1	
0.17 AC. TRACT	FRESH MARK INC.	4319412	NONE	
17188	LEANNE INC	0701616	A-1	
12756	CHAD M. HARTMAN	0713716	RT	
OL 494	LEANNE CORP	0700145	B-3	
12817	EAST OHIO GAS COMPANY	0700519	B-3	
OL 493	LEANNE CORPORATION	0700101	B-3	
PT OL 487	LEANN INC	0701534	I-1	
OL 447	NORFOLK SOUTHERN RAILWAY COMPANY	0799003	NONE	
OL 457	FRESH MARK INC.	0700140	I-1	



- ① ITEM 452 - 6" NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
- ② ITEM 304 - 6" AGGREGATE BASE
- ③ ITEM 204 - SUBGRADE COMPACTION

- 1.) MAXIMUM TRANSVERSE JOINT SPACING = 15'
- 2.) MAXIMUM LONGITUDINAL JOINT SPACING = 18'
- 3.) LONGITUDINAL AND TRANSVERSE JOINTS SHALL BE PER ODOT'S STAND. CONSTRUCTION DRAWINGS BP-2.1 & BP-2.2 RESPECTIVELY.

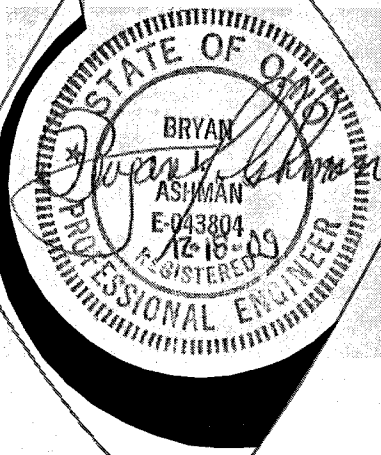
SCALE: NONE

**PLANS PREPARED BY:**  
**COOPER & ASSOCIATES, LLP**  
**ENGINEERS AND SURVEYORS**

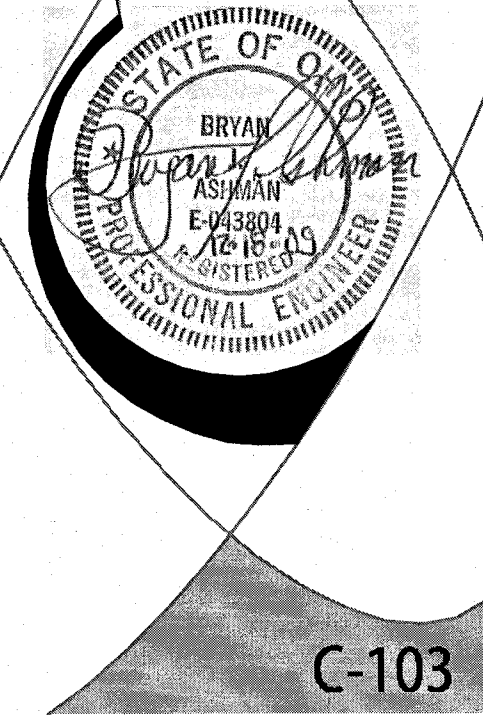
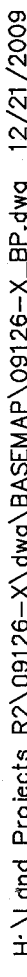
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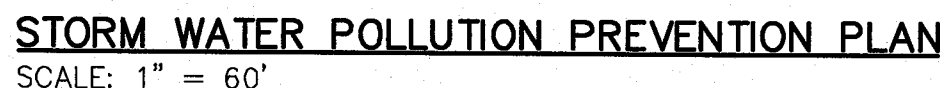
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