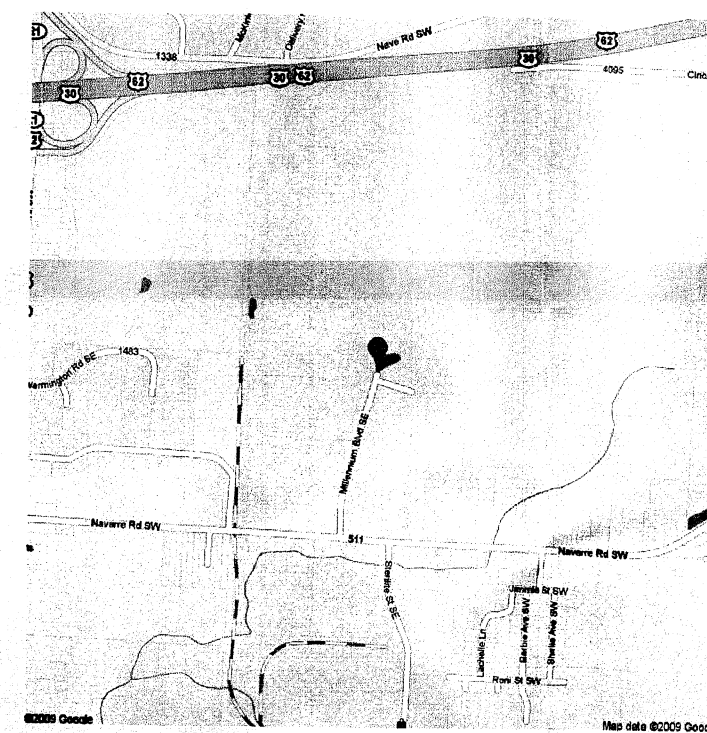


SHEARER'S FOODS INC.

WASTEWATER PRETREATMENT PLANT

4100 MILLENNIUM DR.

MASSILLON OHIO



LOCATION MAP
NOT TO SCALE

INDEX OF DRAWINGS

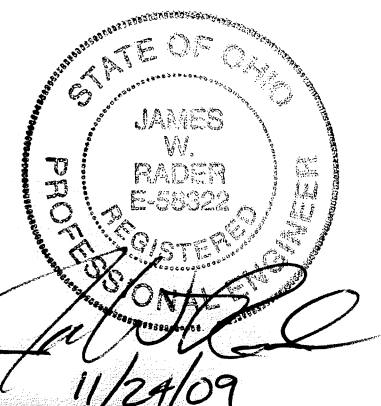
TITLE SHEET.....	1
PLAN VIEW OVERALL.....	2
PLAN VIEW DETAIL	3
PROCESS SANITARY PROFILE.....	4
SANITARY PROFILE.....	5
PROCESS FLOW DIAGRAM.....	6

BUILDING DRAWINGS

PLUMBING FIRST FLOOR.....	P1
PLUMBING SECOND FLOOR.....	P2
PLUMBING ISOMETRIC.....	P3
UTILITY PLAN.....	C3
SITE DETAILS.....	C7
SITE DETAILS.....	C8



PTI 727973



RADER
ENGINEERING, INC.

11204 FAIRWAY DR.
COLUMBIA STATION, OH 44028
PHONE (440) 236-8915
FAX (440) 236-8916



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

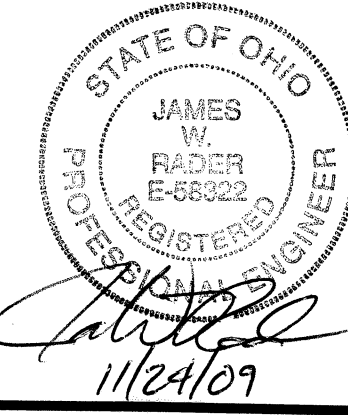
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Date
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1 OF 6



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ENGINEERING, INC.

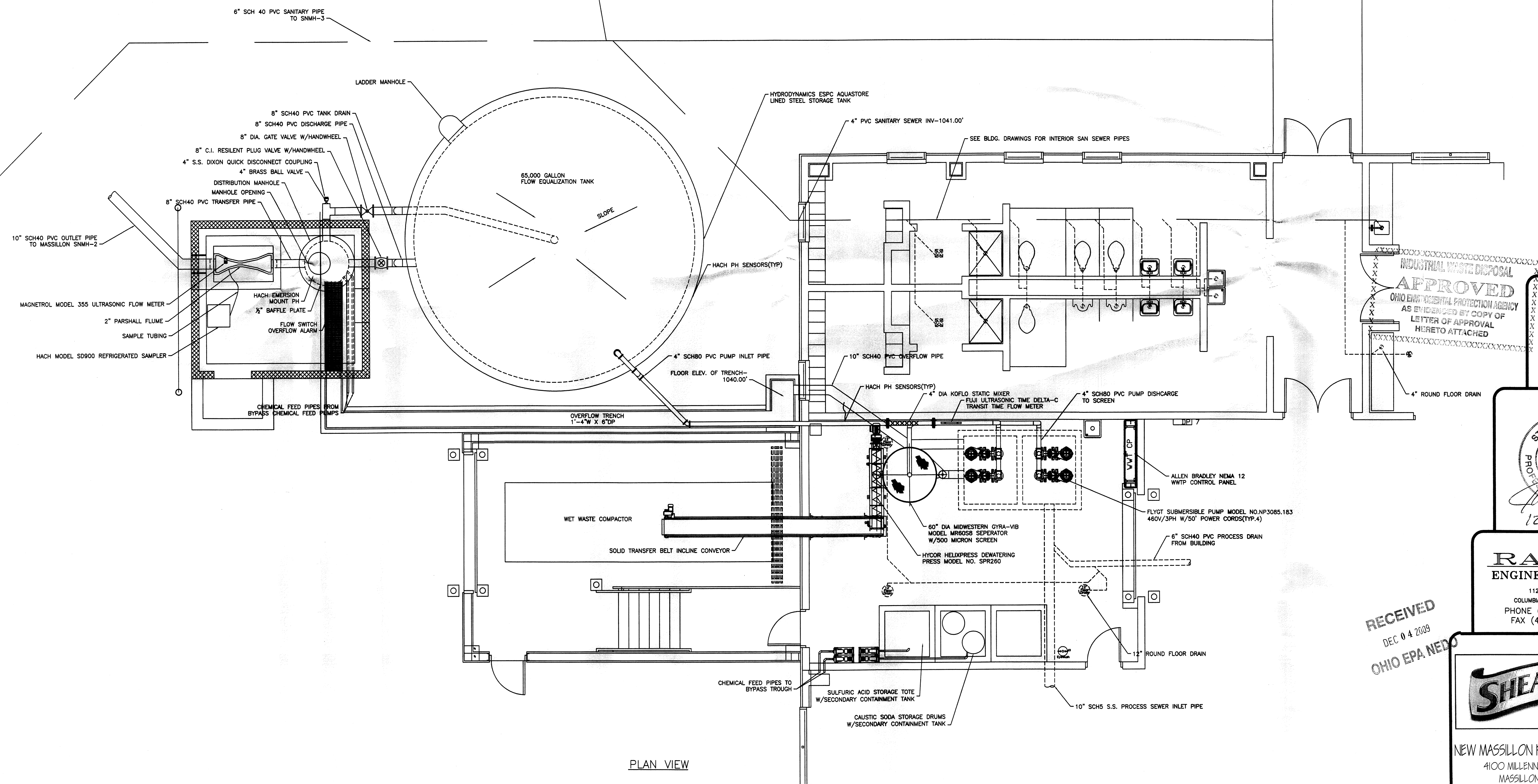
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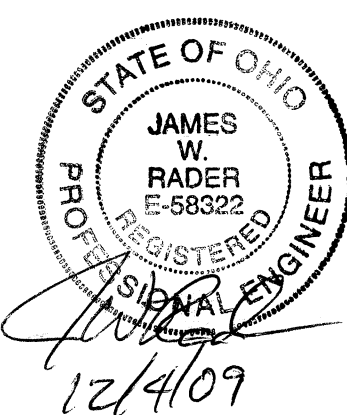
$$|'' = 30'$$

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Date 09-12-08	
Scale 1" = 30'	



PLAN VIEW

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OHIO EPA NEEDS

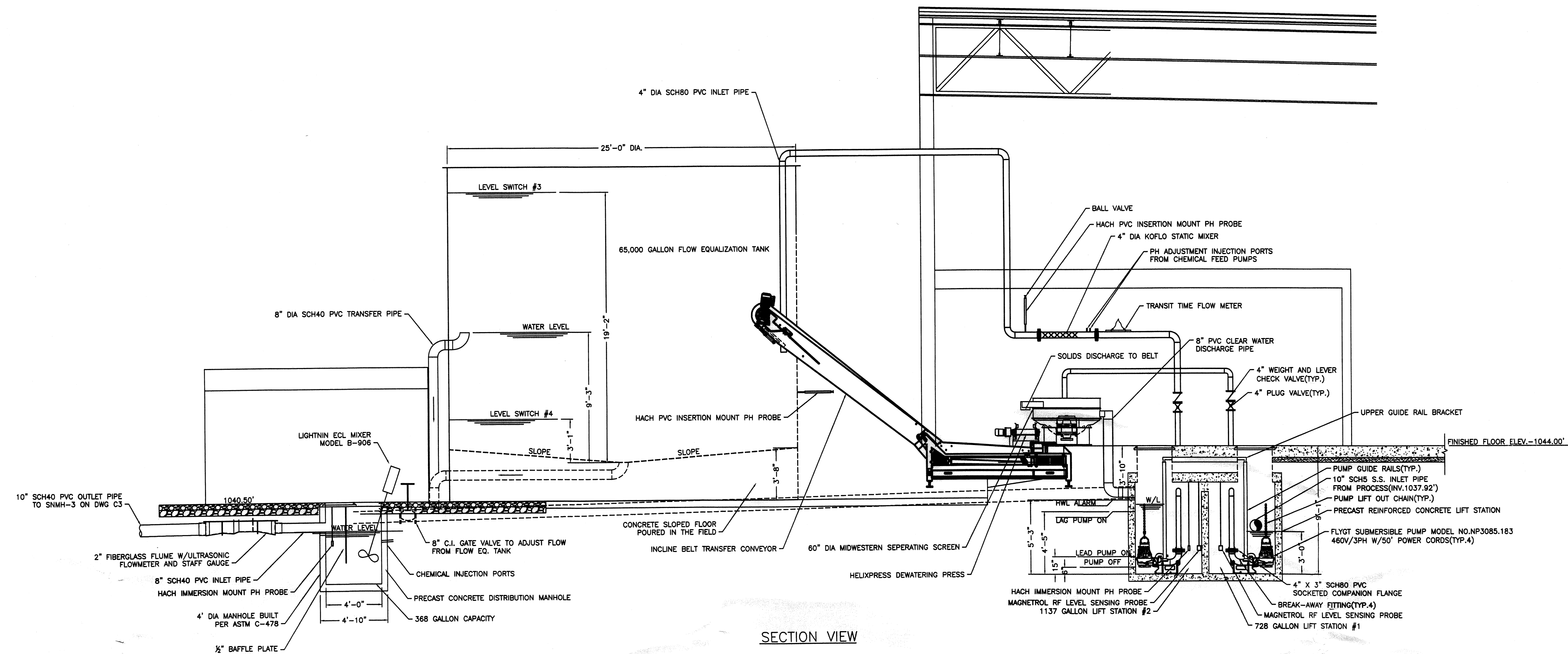


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11204 FAIRWAY DR.
COLUMBIA STATION, OH 44028
PHONE (440) 236-8915
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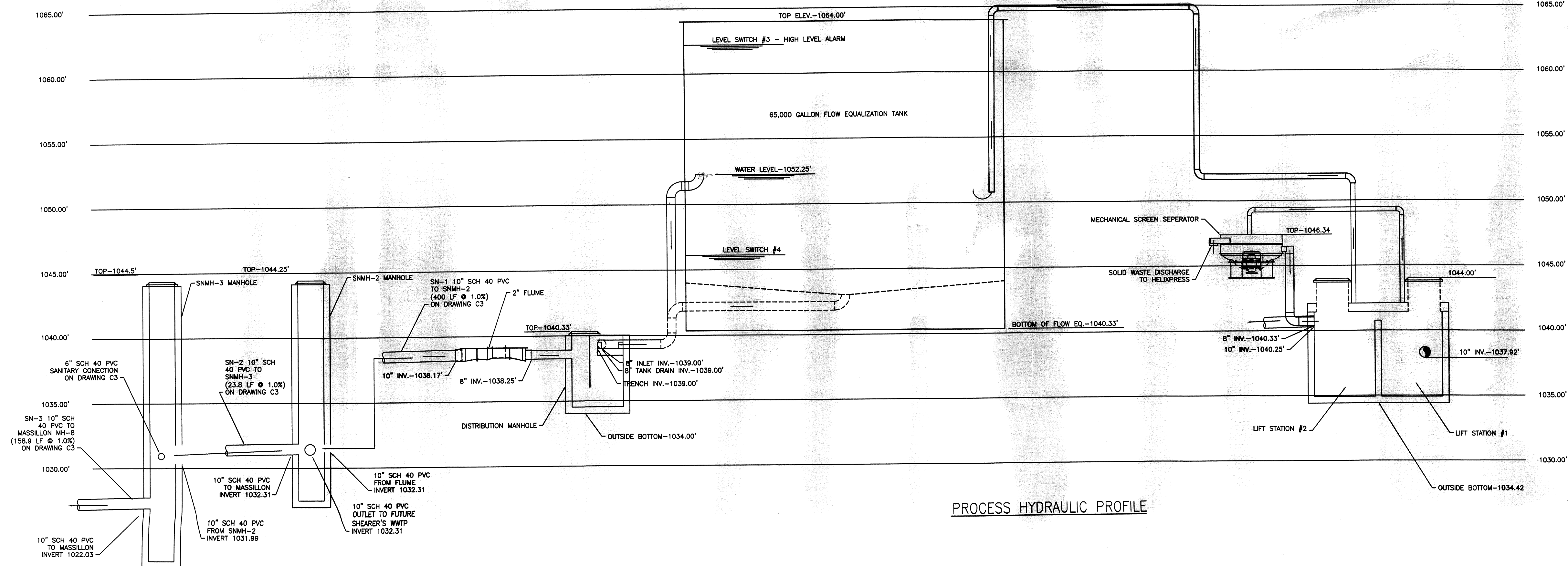


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MASSILLON, OHIO 44646

Project Number SH M - 2	Sheet
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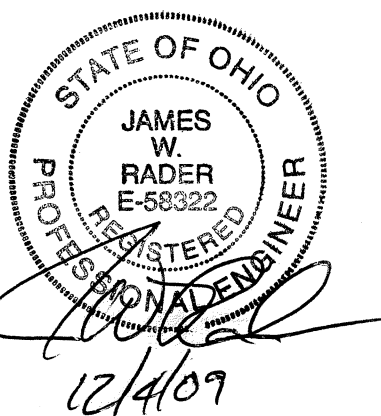


SECTION VIEW



PROCESS HYDRAULIC PROFILE

XXXXXXXXXXXXXXXXXXXXXXXXXXXX
 X INDUSTRIAL WASTE DISPOSAL X
 X APPROVED X
 X OHIO ENVIRONMENTAL PROTECTION AGENCY X
 X AS EVIDENCED BY COPY OF X
 X LETTER OF APPROVAL X
 X HERETO ATTACHED X
 XXXXXXXXXXXXXXXXXXXXXXXXXXXX



RADER
 ENGINEERING, INC.
 11204 FAIRWAY DR.
 COLUMBIA STATION, OH 44028
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NEW MASSILLON PRODUCTION FACILITY
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Project Number SH M - 2	Sheet 4 OF 6
Date 09-12-08	
Scale AS SHOWN	

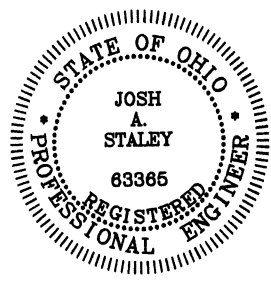


11204 FAIRWAY DR.
COLUMBIA STATION, OH 44028
PHONE (440) 236-8915
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Project Number SH M - 2	Sheet 5 OF 6
Date 09-12-08	
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Sheet
5 OF 6



① SEE ARCHITECTURAL DETAILS FOR EXACT LOCATIONS AND DIMENSIONS OF EQUIPMENT, FIXTURES, OPENINGS AND OUTLETS. COMMUNICATE WITH ARCHITECT ANY DISCREPANCIES.

- ② THIS CONTRACTOR IS TO COORDINATE ALL FINAL LOCATIONS OF PROCESS DRAINS AND PROCESS RELATED PLUMBING FIXTURES WITH OWNER PRIOR TO INSTALLATION.

- ① 1" DCW DOWN WITH 1" DCW TO EACH WATER CLOSET SHOCK ARRESTOR (SA-1).
- ② 3/4" DCW AND DHW DOWN WITH 1/2" DCW AND DHW TO EACH LAVATORY. 1/2" DCW WITH BALL VALVE TO TRAP PRIMER VALVE BELOW. EXTEND 1/2" LINES TO FLOOR DRAINS TRAP PRIMER CONNECTIONS. PROVIDE LOCKABLE ACCESS PANEL IN MENS RESTROOM.

- ③ 1/2" DCW AND DHW DOWN TO SINK.
- ④ 3/4" DCW WITH BALL VALVE DOWN TO HOSE BIB.
- ⑤ 3/4" DCW DOWN TO ELECTRIC WATER COOLER.
- ⑥ 1" DCW DOWN TO WATER CLOSET WITH SHOCK ARRESTOR (SA-1).

- 7 3/4" DCW AND DHW DOWN WITH 1/2" DCW AND 1/2" DHW WITH BALL VALVES TO EACH SHOWER.
- 8 6" WATER SERVICE WITH WATER METER, PRESSURE REDUCING VALVE AND REDUCED PRESSURE BACKFLOW PREVENTER INSTALLED PFR WATER COMPANY REQUIREMENTS.

- 9 6" SANITARY SEWER. REFER TO SITE PLAN FOR CONTINUATION.

- 10 NATURAL GAS SERVICE FROM GAS MAIN BY THIS CONTRACTOR INCLUDING GAS METER, MANIFOLD, RISER KIT AND PRESSURE REGULATOR PER GAS COMPANY REQUIREMENTS. CONTRACTOR TO COORDINATE GAS LOAD WITH OWNER.

- 11 10" PROCESS SEWER. REFER TO SITE PLAN FOR CONTINUATION.

- 12 3/4" DCW AND DHW DOWN WITH 1/2" DCW
AND DHW TO EACH LAVATORY.

- 13 10" PROCESS SANITARY TO TIE INTO
PROCESS PIT. PROCESS PIT BY OTHERS.
PROCESS PIT TO PUMP PROCESS SANITARY
TO WET WASTE COMPACTOR. CONTRACTOR TO
COORDINATE TIE IN WITH OWNER.

- 14) WET WASTE COMPACTOR TO INDIRECTLY DRAIN TO NEAREST FLOOR DRAIN. SOLID WASTE COMPACTOR TO BE PROVIDED BY OTHERS. CONTRACTOR TO COORDINATE FINAL LOCATION OF FLOOR DRAIN WITH OWNERS EQUIPMENT.

- 15 1/2" DCW WITH BALL VALVE TO TRAP PRIMER VALVE BELOW. EXTEND 1/2" LINES TO FLOOR DRAINS TRAP PRIMER CONNECTIONS.

- 16 6" MEDIUM PRESSURE NATURAL GAS LINE
TO LEVEL ABOVE.

- 17 6" DCW TO EXTEND TO LEVEL ABOVE.

- 18 UNDER GROUND PROCESS SANITARY PIPING
FROM P-TRAPS TO BE SCHEDULE 5
STAINLESS STEEL. REFER TO SPECIFICATION
21-05 FOR FURTHER INFORMATION.

- PROCESS SANITARY PIPING TO BE SCH 40
PVC BELOW GRADE AND NO-HUB DWV CAST
IRON ABOVE GRADE. REFER TO
SPECIFICATIONS ON P3 FOR FURTHER

- CONTRACTOR TO PROVIDE CONVERSION COUPLING AT PVC AND OR CAST IRON TO STAINLESS STEEL CONNECTION. REFER TO SPECIFICATIONS ON P3 FOR FURTHER INFORMATION.

- 2) 1/2" DCW AND DHW DOWN TO SINK. 1/2" DCW WITH BALL VALVE TO TRAP PRIMER VALVE BELOW. EXTEND 1/2" LINES TO FLOOR DRAINS TRAP PRIMER CONNECTIONS

- 22 CONTRACTOR TO SECURE PROCESS SINK
PROCESS EQUIPMENT WITH UNI-STRUT
SUPPORT. CONTRACTOR TO COORDINATE
FINAL PLACEMENT OF SINK AND WATER

- 23 1/2" DCW AND DHW LOCATED IN FLOOR.
CONTRACTOR TO EXTEND PIPING FROM

- 24 3" DCW WITH BACK FLOW PREVENTER (BFP) AND SHUT OFF VALVE TO HVAC EQUIPMENT. CONTRACTOR TO COORDINATE

- 3/4" DCW DOWN WITH BALL VALVE, (WF- AND (BP-5) TO OWNER PROVIDED VENDING EQUIPMENT. CONTRACTOR TO COORDINATE

- EQUIPMENT WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
- (26) 3/4" TEPID WATER FROM MIXING VALVE (MV-1) DOWN WITH 1/2" TEPID WATER T

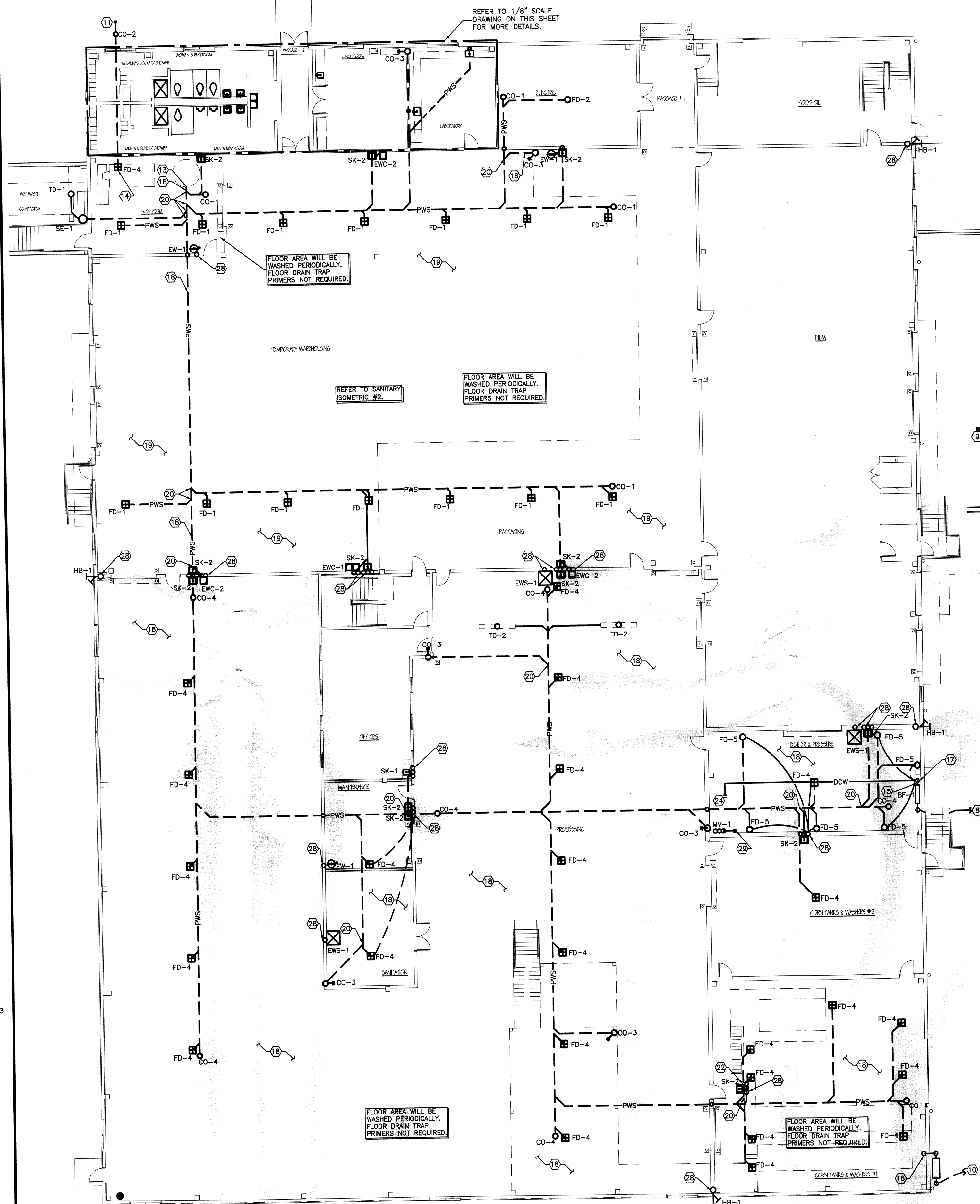
- 27 1/2" TEPID WATER TO EYE-WASH (EW-2)
ON SINK (SK-3) LOCATED IN FLOOR.
CONTRACTOR TO EXTEND PIPING FROM

- FLOOR TO SINK.
- 28 PIPING TO PLUMBING FIXTURE FROM LEVEL

- 2" HOT WATER TO MIXING VALVE FROM
CLEAN IN PLACE (CIP) HOT WATER SYSTEM

- CONTRACTOR TO COORDINATE FINAL
CONNECTION WITH OWNER'S EQUIPMENT.
- 30 3/4" TEPID WATER FROM ABOVE.
CONTRACTOR TO COORDINATE FLOOR

- PENETRATION IN FIELD.



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NOTE

- THIS CONTRACTOR IS TO COORDINATE INSTALLATION OF ALL PLUMBING FIXTURES, PIPING AND VENTS LOCATED IN MASONARY WALL WITH GENERAL CONTRACTOR PRIOR TO MASON STARTING WORK.

- THIS CONTRACTOR IS 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 TRADES FOR SUCH COORDINATION.

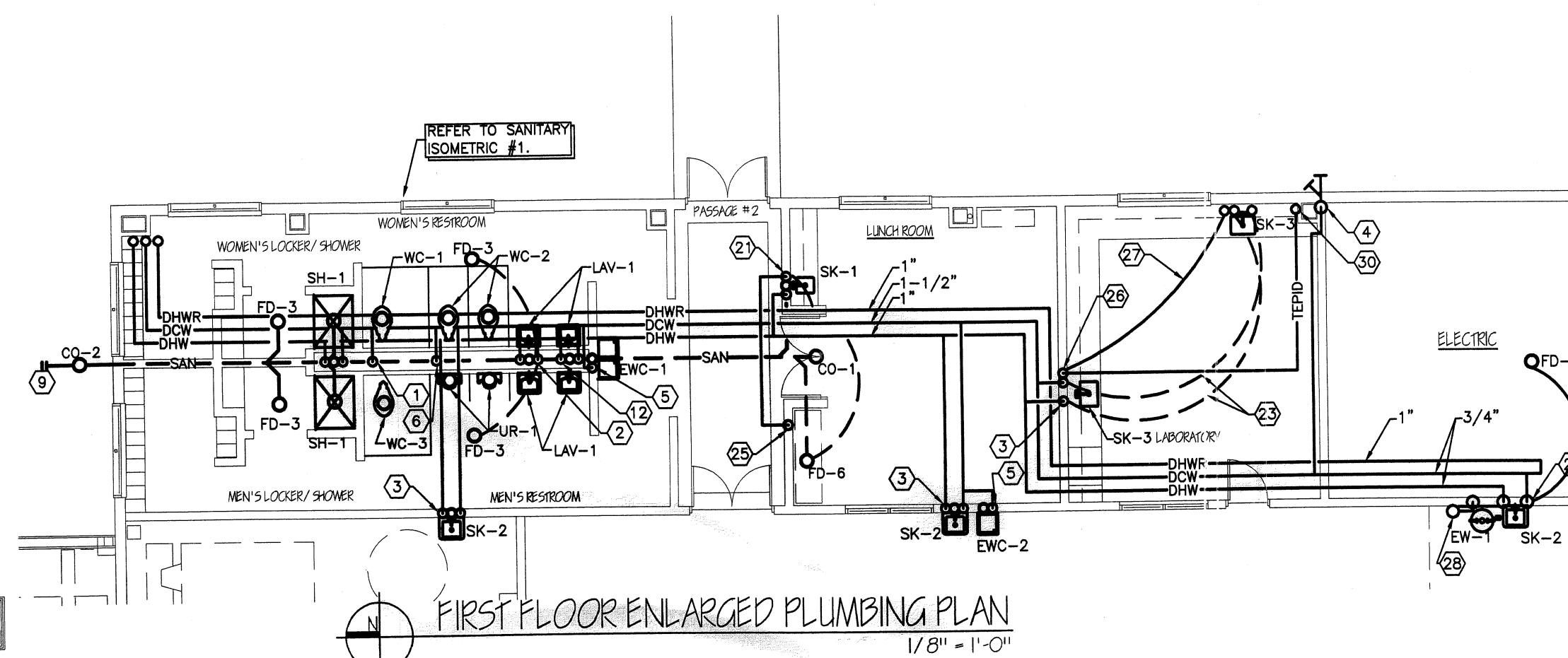


ALL REVISIONS MADE TO THIS
DRAWING AFTER 05/29/09
BE DATED AND DESCRIBED BELOW
THIS DRAWING WAS LAST REVISED
ON 06/11/09

NO	DATE	REVISION DESCRIPTION
①	06/17/09	OWNER REVISIONS

SEE THE FOLLOWING WEBSITE FOR LATEST DRAWINGS ISSUED FOR THIS PROJECT.
www.schumacherconstruction.com/drawings

- PRODUCT DATA FOR CREDIT EQ 4.1: FOR SOLVENT CEMENTS AND ADHESIVE PRIMERS, DOCUMENTATION INCLUDING PRINTED STATEMENT OF VOC CONTENT.
- PRODUCT DATA FOR CREDIT WE 3.1, AND 3.2: DOCUMENTATION INDICATING FLOW AND WATER CONSUMPTION REQUIREMENTS FOR LAVATORIES, WATER CLOSETS, SHOWERS, AND URINALS.
- CONTRACTOR TO REFER TO ARCHITECTURAL PLANS FOR FURTHER LEED INFORMATION.



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INDUSTRIAL WASTE DISPOSAL
APPROVED
OHIO ENVIRONMENTAL PROTECTION AGENCY
AS EVIDENCED BY COPY OF
LETTER OF APPROVAL
HERE TO ATTACHED
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX



PHONE (330) 833-8387
FAX (330) 833-3740

JOHN PATRICK PICARD
ARCHITECT
INCORPORATED

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



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

Project Number
09010

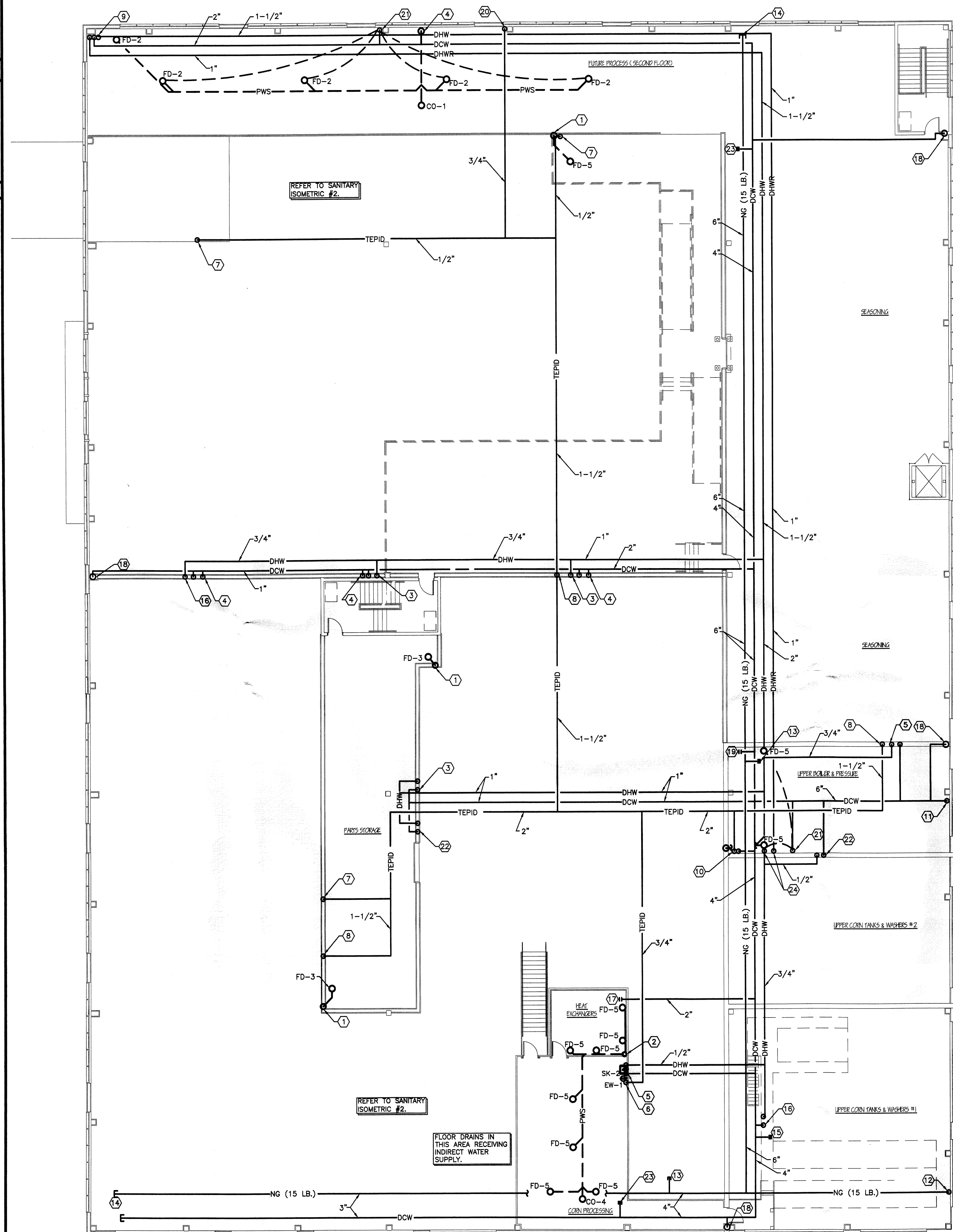
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05-29-09

Scale
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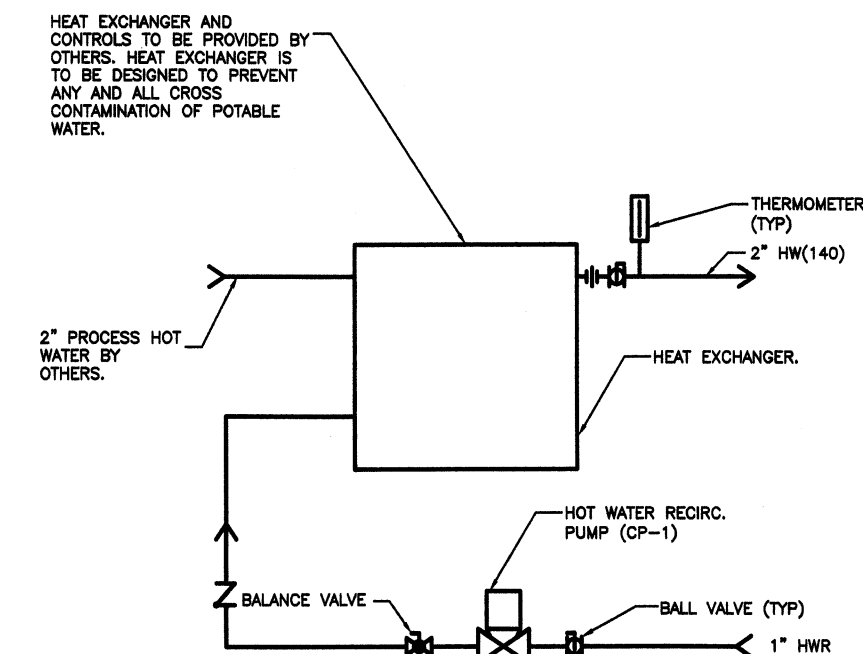
Sheet
P-1

- ① SEE ARCHITECTURAL DETAILS FOR EXACT LOCATIONS AND DIMENSIONS OF EQUIPMENT, FIXTURES, OPENINGS AND OUTLETS. COMMUNICATE WITH ARCHITECT ANY DISCREPANCIES.
- ② THIS CONTRACTOR IS TO COORDINATE ALL FINAL LOCATIONS OF PROCESS DRAINS AND PROCESS RELATED PLUMBING FIXTURES WITH OWNER PRIOR TO INSTALLATION.

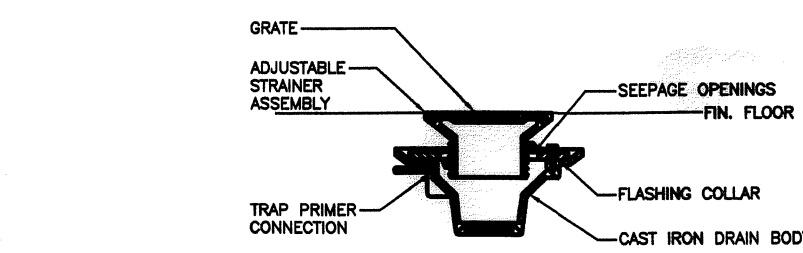
- 1 4" PROCESS WASTE DOWN TO FLOOR BELOW. REFER TO DRAWING P1 FOR MORE INFORMATION.
- 2 6" PROCESS WASTE DOWN TO FLOOR BELOW. REFER TO DRAWING P1 FOR MORE INFORMATION.
- 3 1/2" DCW AND DHW(110) DOWN TO SINK ON FIRST FLOOR. REFER TO DRAWING P1 FOR EXACT SINK LOCATION.
- 4 3/4" DCW DOWN TO ELECTRIC WATER COOLER ON FIRST FLOOR. REFER TO DRAWING P1 FOR EXACT SINK LOCATION.
- 5 1/2" DCW AND DHW DOWN TO SINK.
- 6 1/2" TEPID WATER FROM MIXING VALVE (MV-1) DOWN TO EYE-WASH STATION.
- 7 1/2" TEPID WATER FROM MIXING VALVE (MV-1) DOWN TO EYE-WASH STATION ON FIRST FLOOR. REFER TO DRAWING P1 FOR EXACT LOCATION.
- 8 1-1/2" TEPID WATER FROM MIXING VALVE (MV-1) DOWN TO COMBINATION EMERGENCY SHOWER-EYE-WASH STATION ON FIRST FLOOR. REFER TO DRAWING P1 FOR EXACT LOCATION.
- 9 2" DCW, 1-1/2" DHW AND 1" DHW/DN DOWN TO FIRST FLOOR. CONTRACTOR TO COORDINATE FLOOR PENETRATION IN FIELD.
- 10 2" DCW DOWN TO MIXING VALVE (MV-1) ON FIRST FLOOR. REFER TO DRAWING P1 FOR EXACT LOCATION.
- 11 6" DCW FROM BACK FLOW PREVENTER (BP-2) ON FIRST FLOOR.
- 12 6" MEDIUM PRESSURE NATURAL GAS RISER FROM FIRST FLOOR. CONTRACTOR TO COORDINATE FINAL LOCATION OF NATURAL GAS WITH OWNER.
- 13 CONTRACTOR TO PROVIDE CAPPED NATURAL GAS TAP FOR FUTURE PROCESS CONNECTION BY OTHERS. CONTRACTOR TO COORDINATE FINAL TAP SIZE WITH OWNER.
- 14 NATURAL GAS LINE TO BE CAPPED FOR FUTURE PROCESS CONNECTIONS BY OTHERS.
- 15 CONTRACTOR TO PROVIDE CAPPED 3" DOW TAP FOR FUTURE PROCESS CONNECTION BY OTHERS. CONTRACTOR TO COORDINATE FINAL TAP SIZE WITH OWNER.
- 16 3/4" DCW AND DHW DOWN WITH 1/2" DCW AND DHW TO EACH SINK. 1/2" DCW DOWN. REFER TO DRAWING P1 FOR EXACT SINK LOCATION.
- 17 2" DCW WITH BACK FLOW PREVENTER (BP-2) AND SHUT OFF VALVE TO HVAC EQUIPMENT. CONTRACTOR TO COORDINATE FINAL CONNECTION WITH HVAC CONTRACTOR.
- 18 3/4" DCW WITH BALL VALVE DOWN TO HOSBID ON FIRST FLOOR. REFER TO DRAWING P1 FOR FURTHER INFORMATION.
- 19 1-1/2" DCW WITH BACK FLOW PREVENTER (BP-4) AND SHUT OFF VALVE TO HVAC EQUIPMENT. CONTRACTOR TO COORDINATE FINAL CONNECTION WITH HVAC CONTRACTOR.
- 20 3/4" TEPID WATER DOWN THRU FLOOR TO SPACE BELOW. CONTRACTOR TO COORDINATE FLOOR PENETRATION IN FIELD.
- 21 1/2" DCW WITH BALL VALVE TO TRAP PRIMER VALVE BELOW FLOOR. EXTEND 1/2" LINES TO FLOOR DRAINS TRAP PRIMER CONNECTIONS.
- 22 3/4" DCW AND DHW DOWN WITH 1/2" DCW AND DHW TO EACH SINK. 1/2" DCW WITH BALL VALVE TO TRAP PRIMER VALVE BELOW. EXTEND 1/2" LINES TO FLOOR DRAINS TRAP PRIMER CONNECTIONS.
- 23 CONTRACTOR TO PROVIDE CAPPED 2" DOW TAP FOR FUTURE PROCESS CONNECTION BY OTHERS. CONTRACTOR TO COORDINATE FINAL TAP SIZE WITH OWNER.
- 24 2" DHW AND 3/4" DHW/DN FROM FIRST FLOOR BOILER ROOM. 3/4" DHW/DN TO BE EXTENDED TO CIRCULATING PUMP (CP-1). 2" DHW/DN TO EXTEND DOWN TO CONDENSER. REFER TO HOT WATER SCHEMATIC ON THIS PAGE. CONTRACTOR TO COORDINATE FINAL LOCATION OF CIRCULATING PUMP AND HEAT EXCHANGER WITH OWNER.



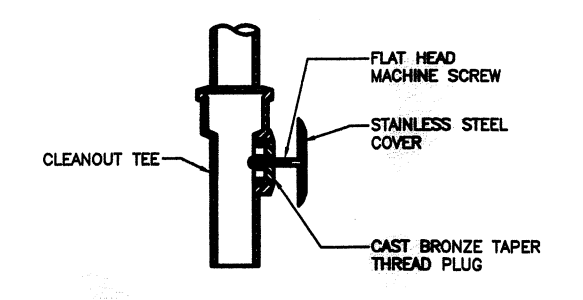
SECOND FLOOR PLUMBING PLAN



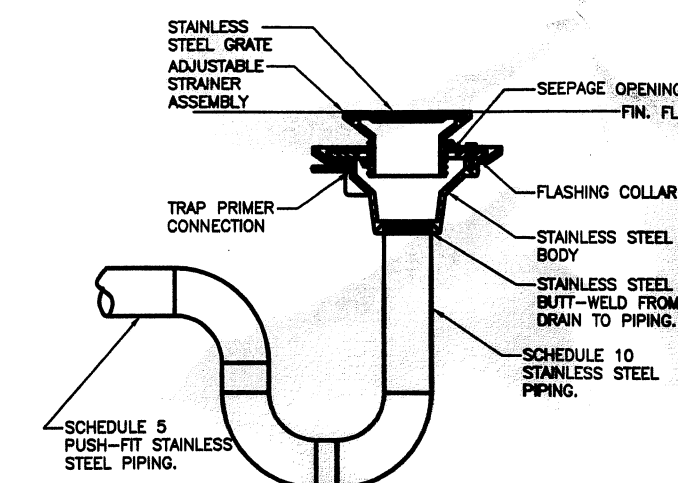
DOMESTIC HOT WATER HEATER SCHEMATIC



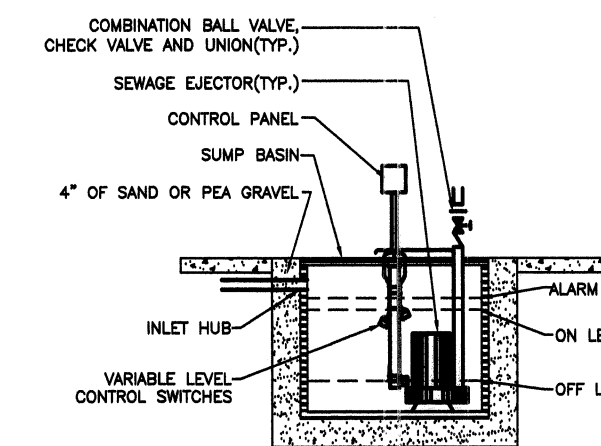
FLOOR DRAIN DETAIL FD-(1-3)



WALL CLEANOUT DETAIL CO-3



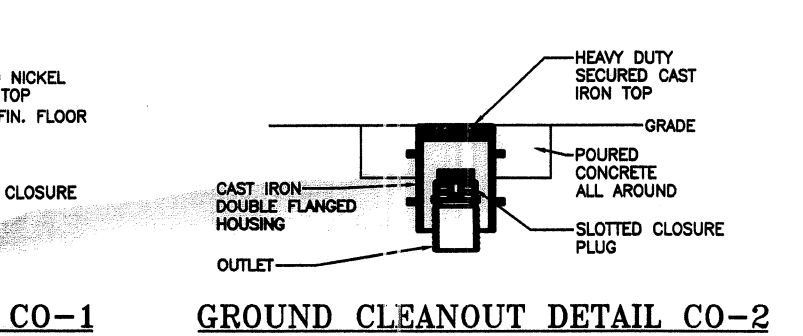
FLOOR DRAIN DETAIL FD-(4,5)



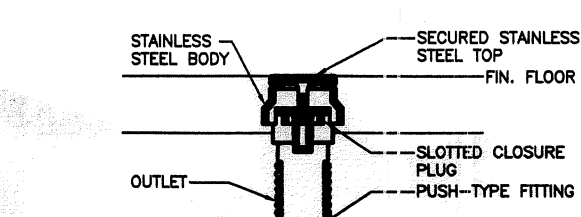
MIXING VALVE DETAIL (MV-1)



SIMPLEX SEWAGE EJECTOR DETAIL (SE-1)



GROUND CLEANOUT DETAIL CO-2



FLOOR CLEANOUT DETAIL CO-4

X
X
X
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X
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X

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
INDUSTRIAL WASTE DISPOSAL
APPROVED
OHIO ENVIRONMENTAL PROTECTION AGENCY
AS EVIDENCED BY COPY OF
LETTER OF APPROVAL
HERETO ATTACHED

PLUMBING SYMBOL LEGEND		
ABBREVIATION	SYMBOL	DESCRIPTION
		SANITARY
		PROCESS SANITARY
DCW		DOMESTIC COLD WATER
DHW		DOMESTIC HOT WATER
TEPID		TEPID WATER
NG		NATURAL GAS MEDIUM PRESSURE
WC		WATER CLOSET
LAV		LAVATORY
SK		SINK
SH		SHOWER
EWS		EMERGENCY WASH STATION
MB		MOP BASIN
EW		ELEC. WATER COOLER
WH		WATER HEATER
HB		HOSE BIB
ET		EXPANSION TANK
CO		CLEANOUT
FD		FLOOR DRAIN
MV		MIXING VALVE
BF		BACK FLOW PREVENTER
EW		EYE WASH STATION
SE		SEWAGE EJECTOR
WF		WATER FILTER
SA		SHOCK ARRESTOR



SCHUMACHER CONSTRUCTION CO.
MASSILLON, OHIO

PHONE (330) 833-8387
FAX (330) 833-3740

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
Date	05-29-09
Scale	AS SHOWN

Sheet
P-2



GRAPHIC SCALE

1 inch = 60 ft.

UTILITY NOTES:

- ALL STORM SEWER, SANITARY AND WATER LINES UNDER AREAS TO BE PAVED ARE TO BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL TO PAVEMENT SUBGRADE.
- STORM SEWER CONDUITS SHALL BE:
STORM SEWER PIPES 8" AND GREATER SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) - SMOOTH INTERIOR ADVANCED DRAINAGE SYSTEMS (SADS) N-12, HANCOCK INC. H-10, OR APPROVED EQUAL, SHALL CONFORM TO DODT CODE ITEM 603 TYPE B, PIPE CULVERTS, SEWERS, DRAINS AND CONDUIT. SHALL ALSO CONFORM TO DODT SUPPLEMENTAL SPECIFICATION 944.
6" - PVC PIPE ASTM D-3034, TYPE PSM, SDR 35, AND SHALL CONFORM TO DODT SPECIFICATION 707.19.
6" ROOFDRAIN - PVC CORRUGATED DRAINAGE PIPE CONFORMING TO DODT SPECIFICATION 707.19.
- SITE CONTRACTOR SHALL BRING ALL PROPOSED UTILITIES TO WITHIN 5 FEET OF BUILDING FACE.
- 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.
- CONTRACTOR SHALL VERIFY PENETRATION POINTS OF ALL UTILITIES INTO BLDG. WITH ARCH. PLANS PRIOR TO CONSTRUCTION.
- PLUMBING CONTRACTOR TO PROVIDE AND INSTALL GAS METER, GAS MANIFOLD, RISER KIT AND GAS PRESSURE REGULATOR. SEE DRAWING P-1.1.
- PLUMBING CONTRACTOR TO PROVIDE AND INSTALL WATER METER AND BACKFLOW PREVENTER. SEE DRAWING P1.1.



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

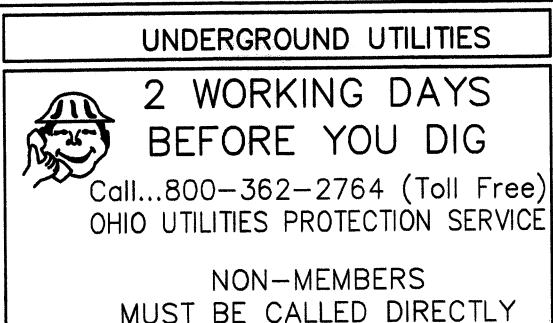
SEE THE FOLLOWING WEBSITE FOR LATEST DRAWINGS
ISSUED FOR THIS PROJECT:
www.schumacherconstruction.com/drawings

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 LID CAP OR A SET
- P.K. (MASSONRY) NAIL SET
- POWER POLE
- LIGHT POLE
- TELEPHONE POLE
- HYDRANT
- CATCH BASIN
- WATER METER
- WATER VALVE
- FENCE
- GAS VALVE
- POST
- HANDICAP SPACE
- SIGN
- RIGHT-OF-WAY
- GAS LINE MARKER
- MANHOLE
- SANITARY MANHOLE
- ELECTRIC BOX
- CENTERLINE
- RECORD BEARING
- DISTANCE
- CONCRETE CURBING
- PROPOSED WATER
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER

BENCHMARK

EX. STMH12
RM = 1017.59'
N = 14926.19'
E = 14811.66'



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SANITARY DATA PHASE 1

SNMH-1 (DODT 2-2-B)	T/C = 1043.83
N 10" INV. = 1036.31	
SN-1, 400 L.F. 10" PVC @ 1.00%	
SNMH-2 (DODT STD MANHOLE)	T/C = 1044.23
E 8" INV. = 1032.31	
S 10" INV. = 1032.31	
NW 10" INV. = 1032.31	
SN-2, 23.8 L.F. 10" PVC @ 1.00%	
T/C = 1044.50	
S 8" INV. = 1031.99 (OUTSIDE DROP CONN.)	
SE 10" INV. = 1031.99 (OUTSIDE DROP CONN.)	
NE 10" INV. = 1022.03	
SN-3, 58.23 L.F. 10" PVC @ 1.00%	
EXISTING SAN MH #6	
EXIST. T/C = 1029.68 (RETAIN EX. ELEV.)	
SW 10" INV. = 1029.68 (OUTSIDE DROP CONN.)	
EXIST. 8" W-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

I-1 (DODT 2-2-B)	T/C = 1038.85
W 12" INV. = 1035.35	
ST-1, 122 L.F. 15" HDPE @ 0.57%	
SNMH-2 (DODT STD MANHOLE)	T/C = 1038.44
E 15" INV. = 1034.66	
W 18" INV. = 1034.16	
ST-2, 122.83 L.F. 18" HDPE @ 0.65%	
SNMH-1 (DODT STD MANHOLE)	T/C = 1042.59
E 18" INV. = 1033.36	
N 24" INV. = 1033.36	
W 30" INV. = 1032.07	
S 15" INV. = 1033.99	
ST-3, 58.23 L.F. 30" HDPE @ 0.49%	
SNMH-2 (DODT STD MANHOLE)	T/C = 1041.92
E 30" INV. = 1032.07	
SW 30" INV. = 1032.07	
S 15" INV. = 1033.99	
ST-4, 148.12 L.F. 30" HDPE @ 2.19%	
I-3 (DODT 2-2-B)	T/C = 1033.83
E 30" INV. = 1028.83	
NW 36" INV. = 1028.33	
I-4 (DODT 5' DIA MH W/ GRATE TOP)	T/C = 1032.43
SE 36" INV. = 1028.83	
NE 12" INV. = 1028.83	
NW 36" INV. = 1028.33	
ST-5, 58.23 L.F. 36" HDPE @ 2.46%	
I-5 (DODT 2-2-B)	T/C = 1040.96
SW 15" INV. = 1037.46	
ST-6, 115 L.F. 15" HDPE @ 0.50%	
SNMH-4 (DODT STD MANHOLE)	T/C = 1043.18
NE 15" INV. = 1036.88	
W 24" INV. = 1035.88	
ST-7, 163.55 L.F. 24" HDPE @ 0.50%	
SNMH-3 (DODT STD MANHOLE)	T/C = 1043.59
E 24" INV. = 1034.19	
S 24" INV. = 1034.19	
ST-8, 338.38 L.F. 24" HDPE @ 0.50%	
I-6 (DODT 2-2-B)	T/C = 1041.35
N 12" INV. = 1037.85	
ST-9, 115 L.F. 12" HDPE @ 1.00%	
I-7 (DODT 2-2-B)	T/C = 1040.20
S&N 12" INV. = 1036.70	
ST-11, 133.1 L.F. 12" HDPE @ 2.46%	
I-8 (DODT 2-2-B)	T/C = 1036.88
S 12" INV. = 1033.36	
NE 12" INV. = 1028.85	
ST-12, 63.5 L.F. 12" HDPE @ 0.48%	
H-2 (DODT HW-2.1)	T/C = 1026.00
I-12 (CB 2-2-B)	T/C = 1016.50
E&S 12" INV. = 1013.00	
ST-17, 130.1 L.F. 12" HDPE @ 0.28%	
SNMH-5 (DODT 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%	
SNMH-6 (DODT 5' DIA. MANHOLE)	T/C = 1025.44
N 24" INV. = 1011.21	
E 18" INV. = 1020.00	
S 36" INV. = 1010.21	
ST-19, 311.44 L.F. 36" HDPE @ 0.30%	
SNMH-7 (DODT 5' DIA. MANHOLE)	T/C = 1020.90
M&S 36" INV. = 1009.27	
ST-20, 162.49 L.F. 36" HDPE @ 0.30%	
SNMH-8 (DODT 5' DIA. MANHOLE)	T/C = 1015.50
N&SE 36" INV. = 1008.79	
ST-21, 52.69 L.F. 36" HDPE @ 1.50%	
H-6 (DODT HW-2.1)	T/C = 1008.00
I-25 (DODT 2-2-B)	T/C = 1030.29
E 12" INV. = 1027.70	
ST-36, 44.6 L.F. 12" HDPE @ 1.57%	
OS-1 (DODT MODIFIED 2-2-B)	T/C = 1012.50
E 12" WIDE WER INV. = 1009.50	
E 3" INV. = 1008.00	
W 24" INV. = 1008.00	

STORM DATA PHASE 2

I-20 (DODT 2-2-B)	T/C = 1040.50
W 12" INV. = 1037.00	
ST-31, 101.85 L.F. 12" HDPE @ 0.50%	
I-21 (DODT 2-2-B)	T/C = 1040.15
N 12" INV. = 1034.49	
N 15" INV. = 1034.49	
ST-32, 100.32 L.F. 15" HDPE @ 0.50%	
I-22 (DODT 2-2-B)	T/C = 1039.95
W 12" INV. = 1036.45	
ST-33, 122.00 L.F. 12" HDPE @ 6.16%	
I-24 (DODT 2-2-B)	T/C = 1041.55
SW 12" INV. = 1008.56	
ST-35, 80.52 L.F. 12" HDPE @ 0.65%	
H-3 (DODT HW-2.1)	T/C = 1038.00
I-23 (DODT MH W/ GRATE TOP)	T/C = 1031.01
SW 12" INV. = 1030.02	
ST-34, 101.91 L.F. 12" HDPE @ 1.00%	
I-25 (DODT HW-2.1)	T/C = 1039.90
W 18" INV. = 1035.90	
ST-29, 326.71 L.F. 18" HDPE @ 0.30%	
SNMH-13 (DODT STD MANHOLE)	T/C = 1039.90
N&E 18" INV. = 1034.92	
ST-27, 101.05 L.F. 18" HDPE @ 1.25%	
I-26 (DODT 2-2-B)	T/C = 1037.95
W 12" INV. = 1034.45	
ST-28, 225.77 L.F. 12" HDPE @ 0.50%	
I-27 (CB 2-2-B)	T/C = 1037.66
E 12" INV. = 1033.69	
N 12" INV. = 1033.69	
W 24" INV. = 1032.69	
ST-26, 204.85 L.F. 24" HDPE @ 1.38%	
I-9 (DODT 2-2-B)	T/C = 1039.17
N 12" INV. = 1035.50	
ST-25, 169.57 L.F. 12" HDPE @ 3.46%	
I-14 (DODT 2-3)	T/C = 1033.14
E 24" INV. = 1028.64	
W 24" INV. = 1028.14	
S 12" INV. = 1028.64	
ST-24, 83.65 L.F. 24" HDPE @ 9.73%	
I-15 (DODT 2-2-B)	T/C = 1023.43
W 18" INV. = 1019.43	
ST-23, 82.61 L.F. 18" HDPE @ 2.89%	
I-19 (DODT 2-2-B)	T/C = 1027.49
W 12" INV. = 1023.99	
ST-30, 199.96 L.F. 12" HDPE @ 2.82%	
I-16 (DODT 2-2-B)	T/C = 1021.85
E&W 12" INV. = 1018.35	
ST-22, 93.9 L.F. 12" HDPE @ 5.70%	
H-3 (DODT HW-2.1)	T/C = 1028.00
ST-13, 98 L.F. 18" HDPE @ 1.02%	
H-4 (DODT HW-2.1)	T/C = 1027.00
I-11 (DODT 2-2-B)	T/C = 1033.50
E 12" INV. = 1030.00	
ST-16, 81.9 L.F. 12" HDPE @ 0.50%	
I-10 (DODT 2-2-B)	T/C = 1033.50
W&E 12" INV. = 1029.69	
ST-15, 80 L.F. 12" HDPE @ 0.50%	
I-9 (DODT 2-2-B)	T/C = 1033.50
W&E 12" INV. = 1029.29	
ST-14, 35 L.F. 12" HDPE @ 9.38%	
H-5 (DODT HW-2.1)	T/C = 1026.00



JOHN PATRICK PICARD
ARCHITECT
INCORPORATED

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

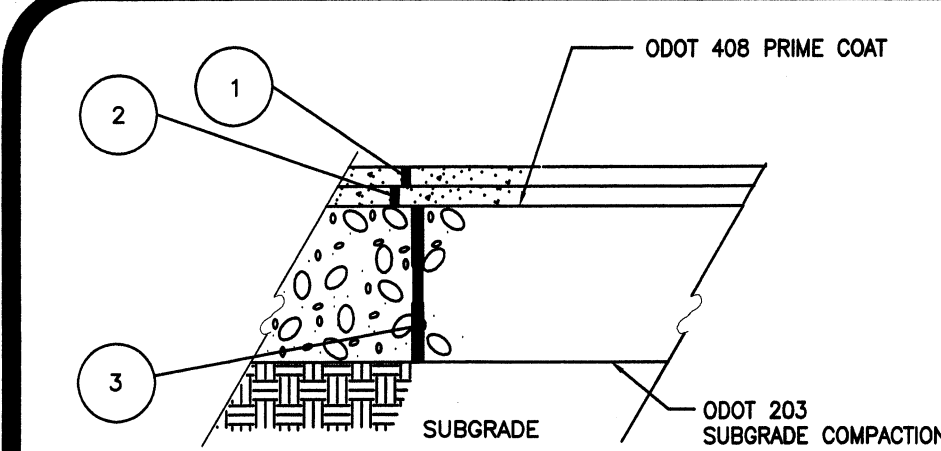


NEW MASSILLON PRODUCTION FACILITY
4100 MILLENNIUM BOULEVARD SE
MASSILLON, OHIO 44846

Project Number
09010
Date
05-29-09
Scale
AS SHOWN

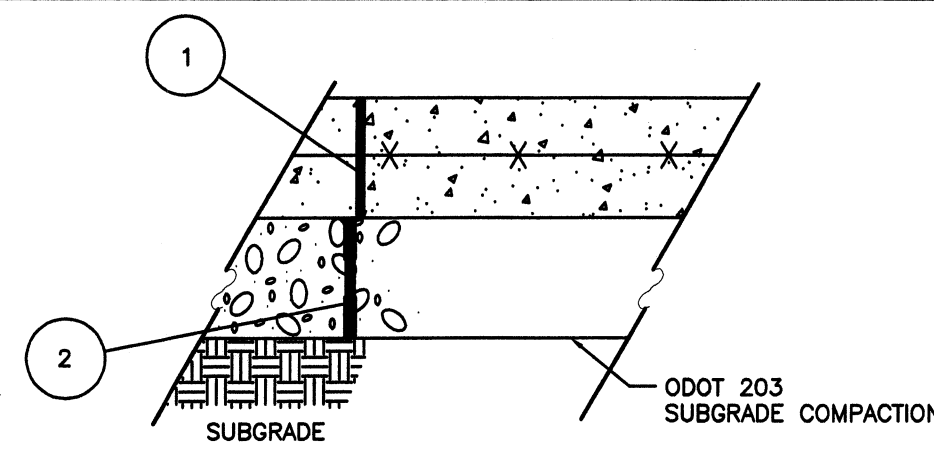
Sheet
C3

UTILITY PLAN



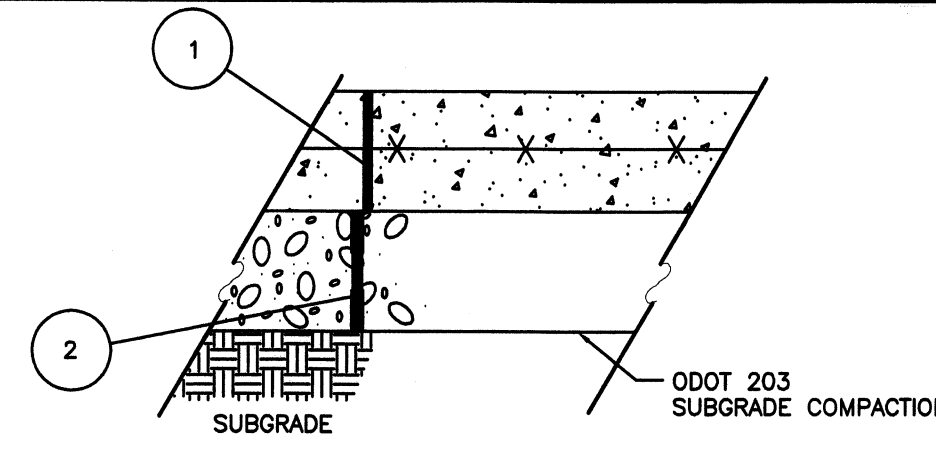
ASPHALT PAVING DETAIL (REGULAR DUTY)
(PHASE 2)
NOT TO SCALE

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



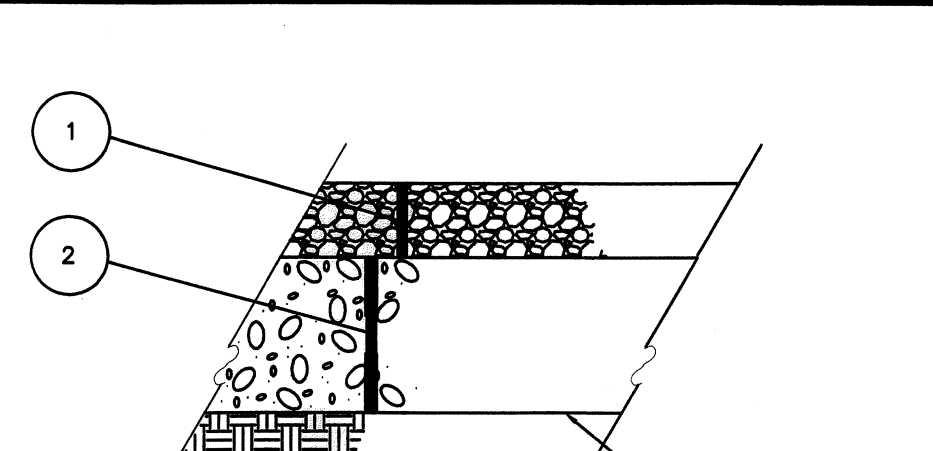
HEAVY DUTY
CONCRETE PAVEMENT DETAIL
N.T.S.

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"



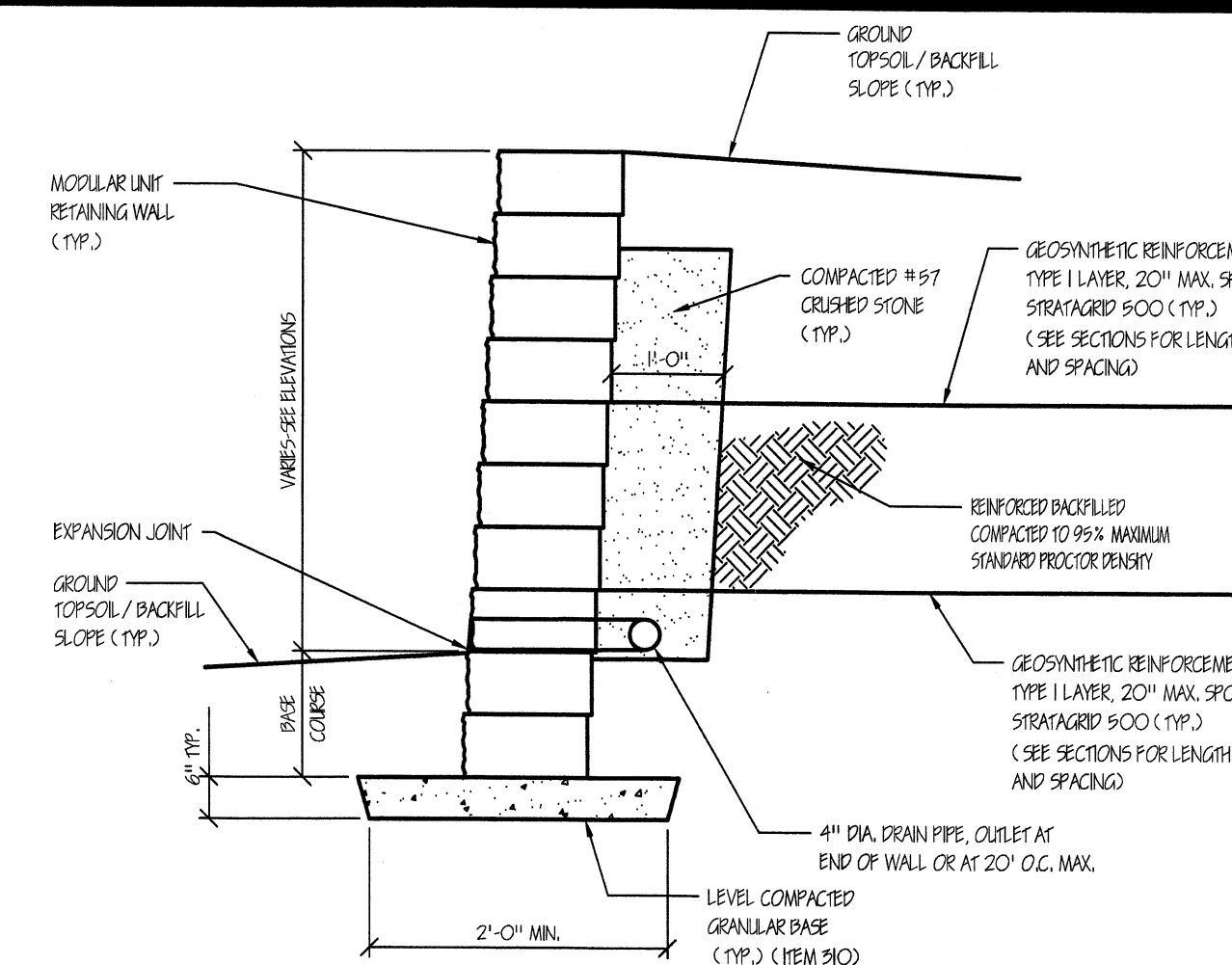
REGULAR DUTY
CONCRETE PAVEMENT DETAIL
N.T.S.

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"



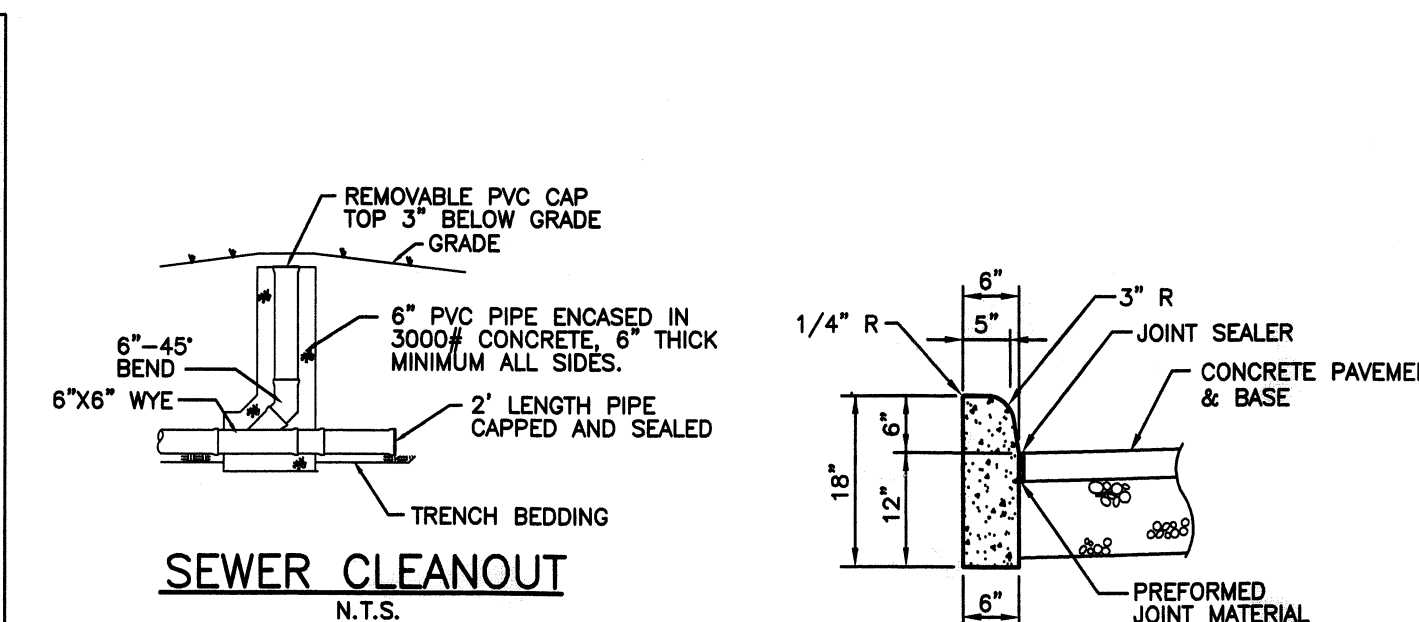
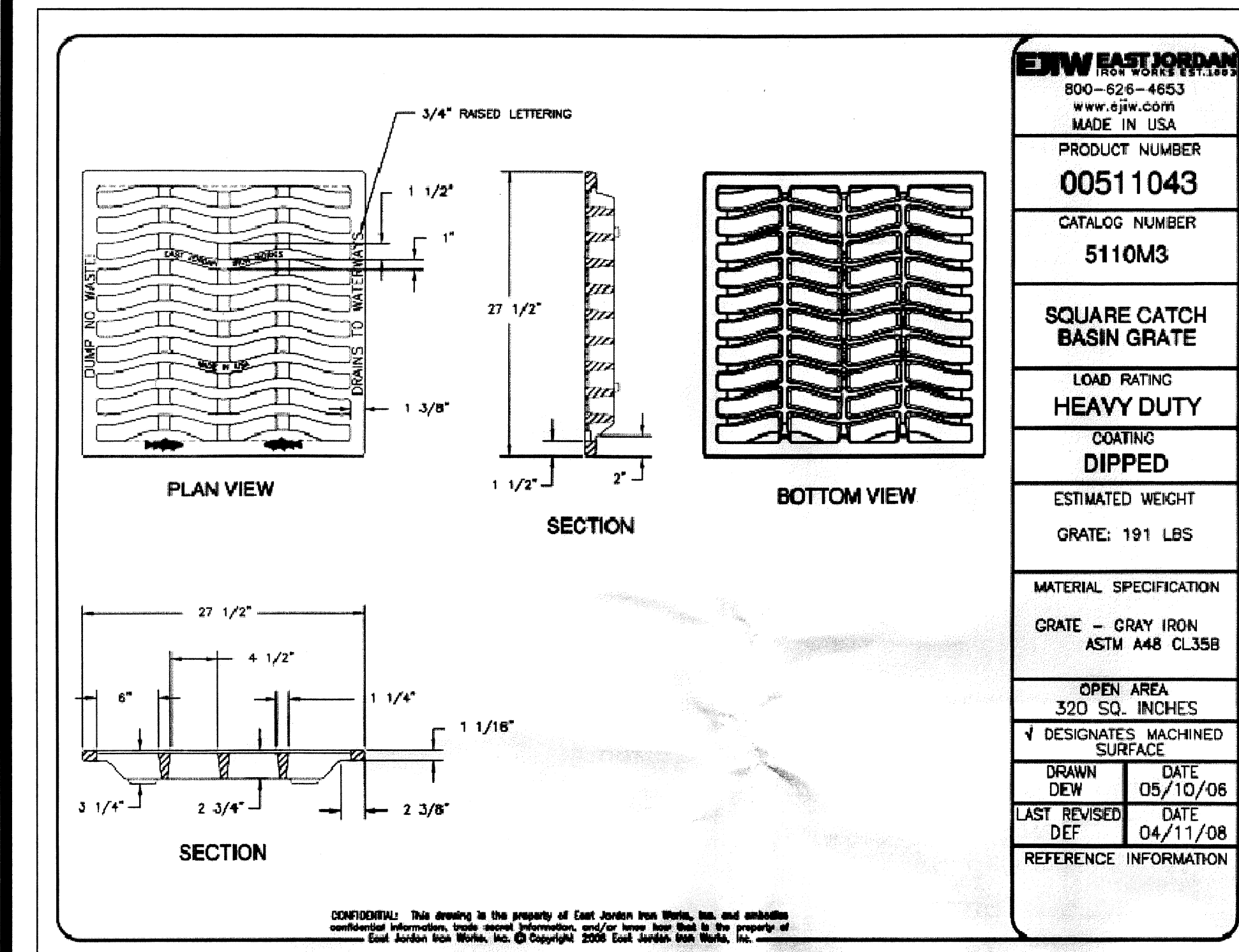
GRAVEL PAVING DETAIL
NOT TO SCALE

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



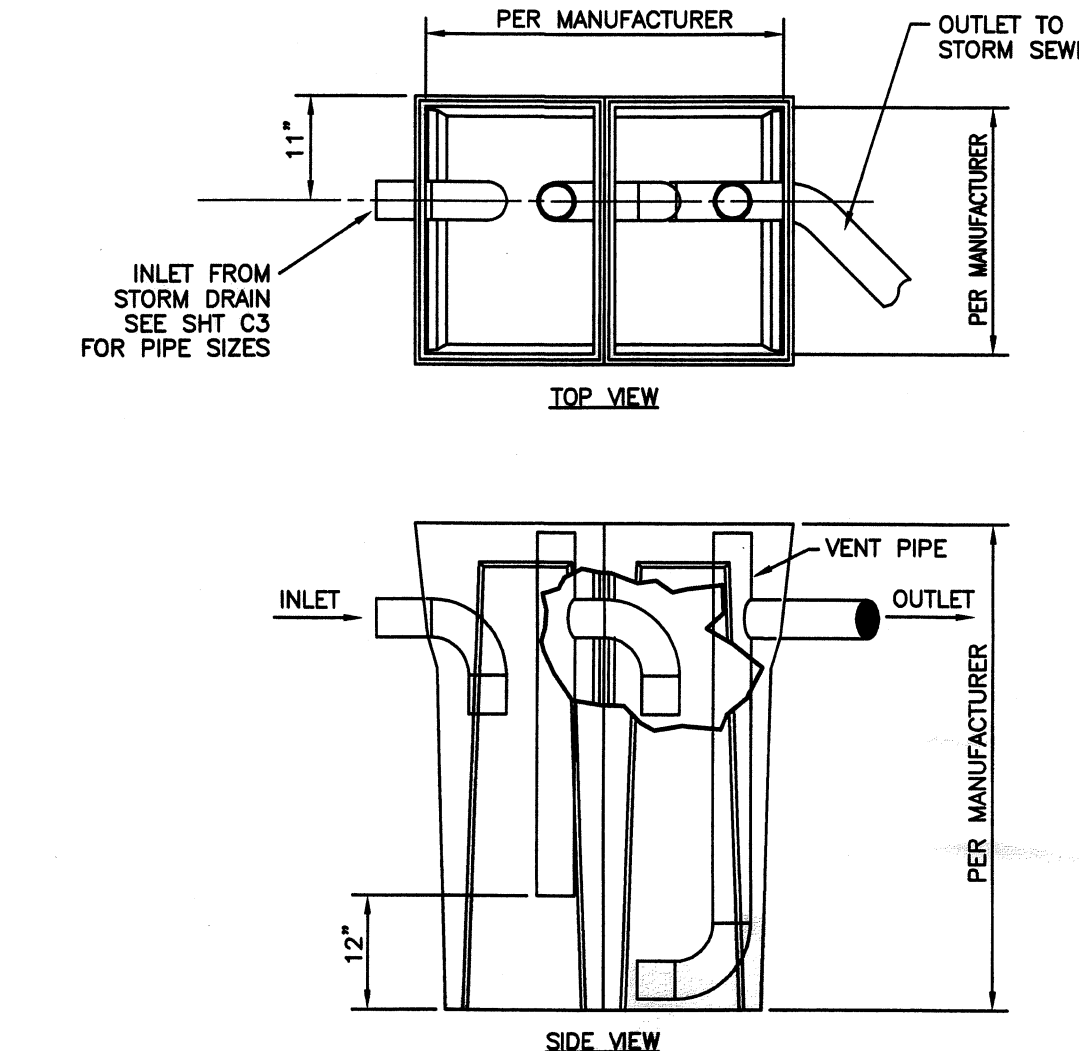
TYPICAL MODULAR UNIT WALL SECTION (PHASE 2)
SCALE: N.T.S.

- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- NOTE:
1. WALL TO BE PER 8" RETAINING WALL SYSTEM BY L.H.L. 800-864-9629 OR 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 SEISMIC 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 IMMEDIATE GEOTECHNICAL GROUP DATED AUGUST 28, 2008).
5. CONTRACTOR SHALL SUBMIT CALCULATIONS AND DRAWINGS, STAMPED BY AN OHO PROFESSIONAL ENGINEER, TO BE APPROVED BY THE OWNER'S ENGINEER.

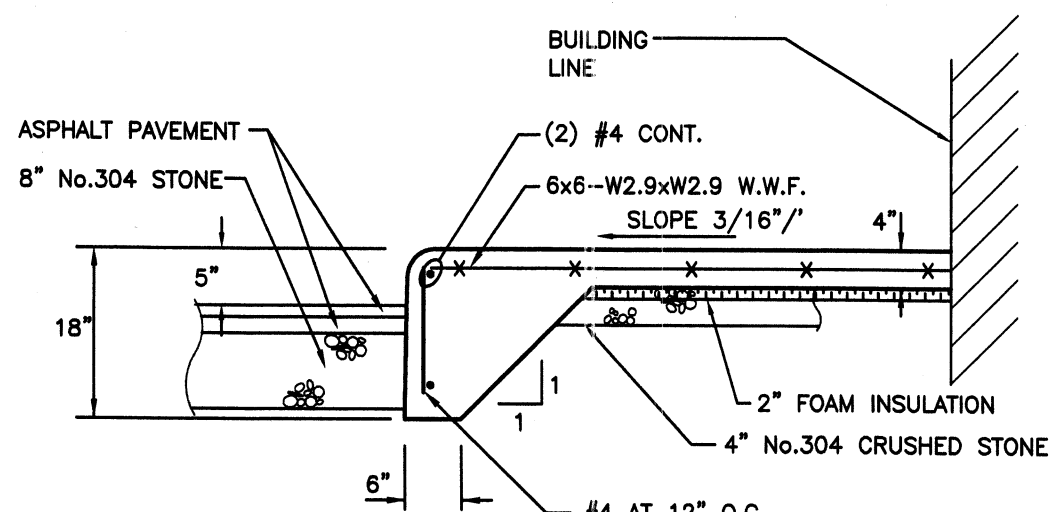


SEWER CLEANOUT
N.T.S.

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



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



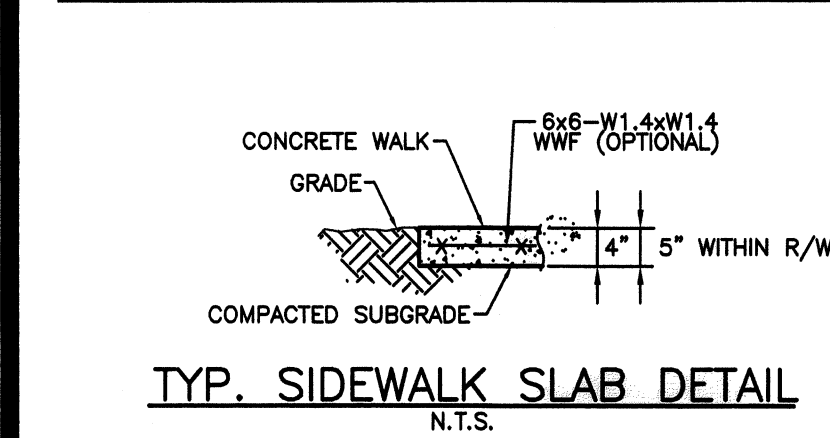
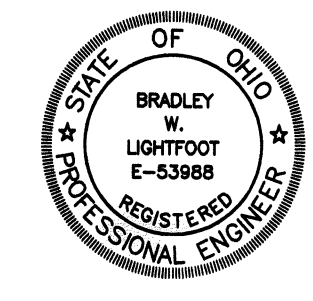
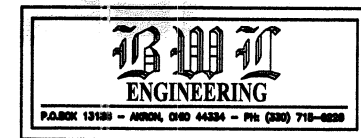
INTEGRAL CURB & WALK DETAIL (PHASE 2)
N.T.S.



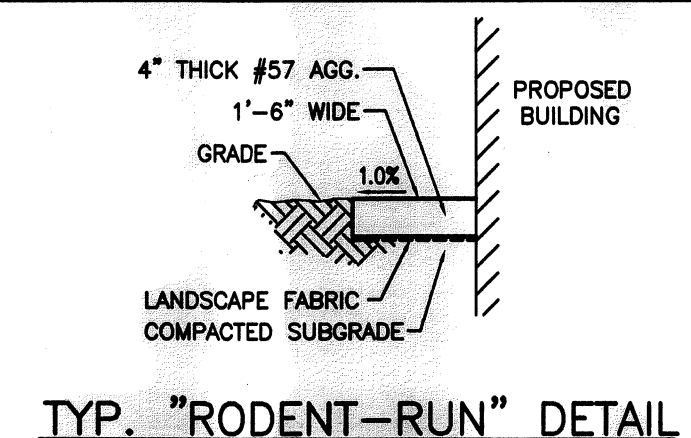
ALL REVISIONS MADE TO THIS
DRAWING AFTER 06/27/09, SHALL
BE DATED AND DESCRIBED BELOW.
THIS DRAWING WAS LAST REVISED
ON 06/27/09.

NO	DATE	REVISION DESCRIPTION
1	06/27/09	A - ISSUED FOR BID
2	09/29/09	B - APPENDIX I
3	00/00/00	AAAAA
4	00/00/00	AAAAA
5	00/00/00	AAAAA
6	00/00/00	AAAAA

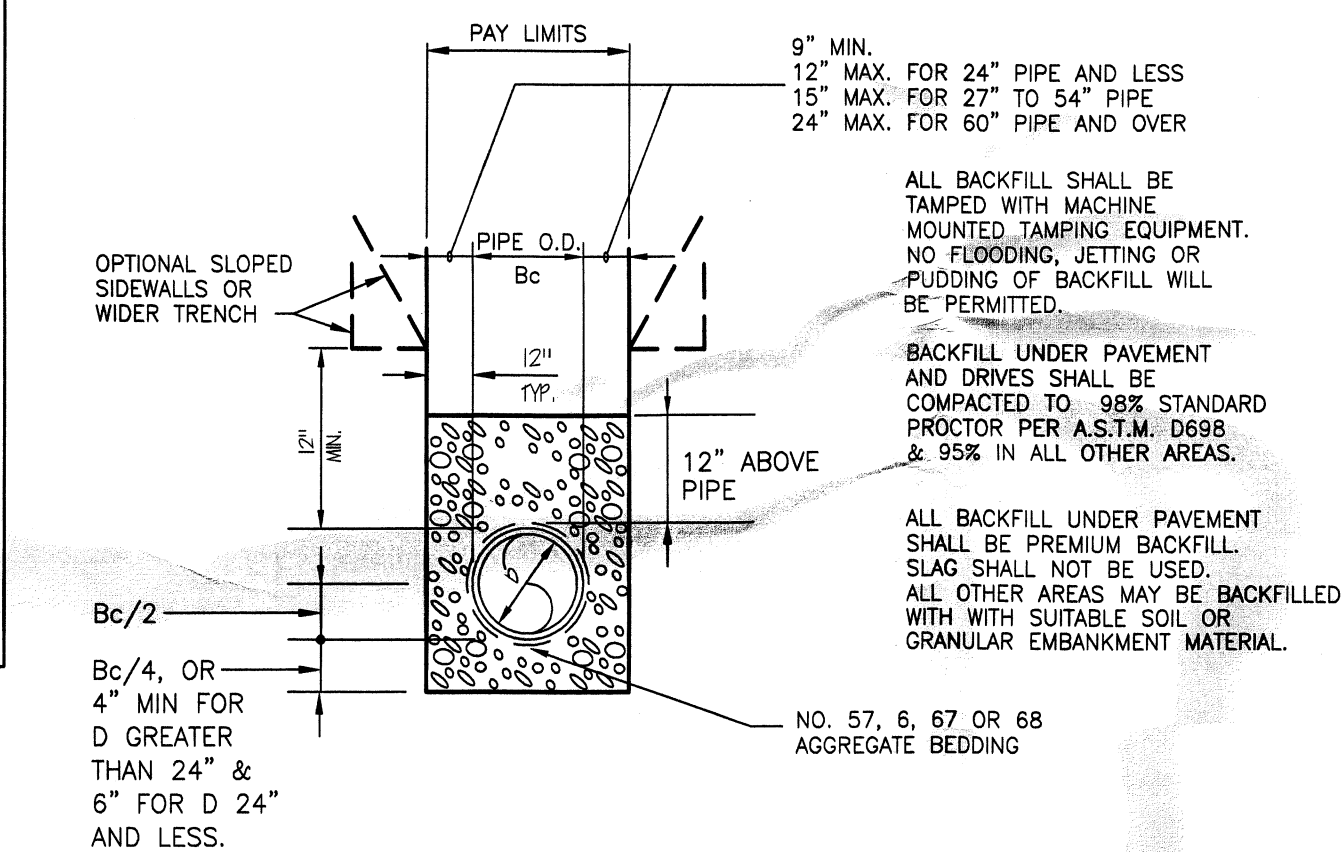
SEE THE FOLLOWING WEBSITE FOR LATEST DRAWINGS
ISSUED FOR THIS PROJECT.
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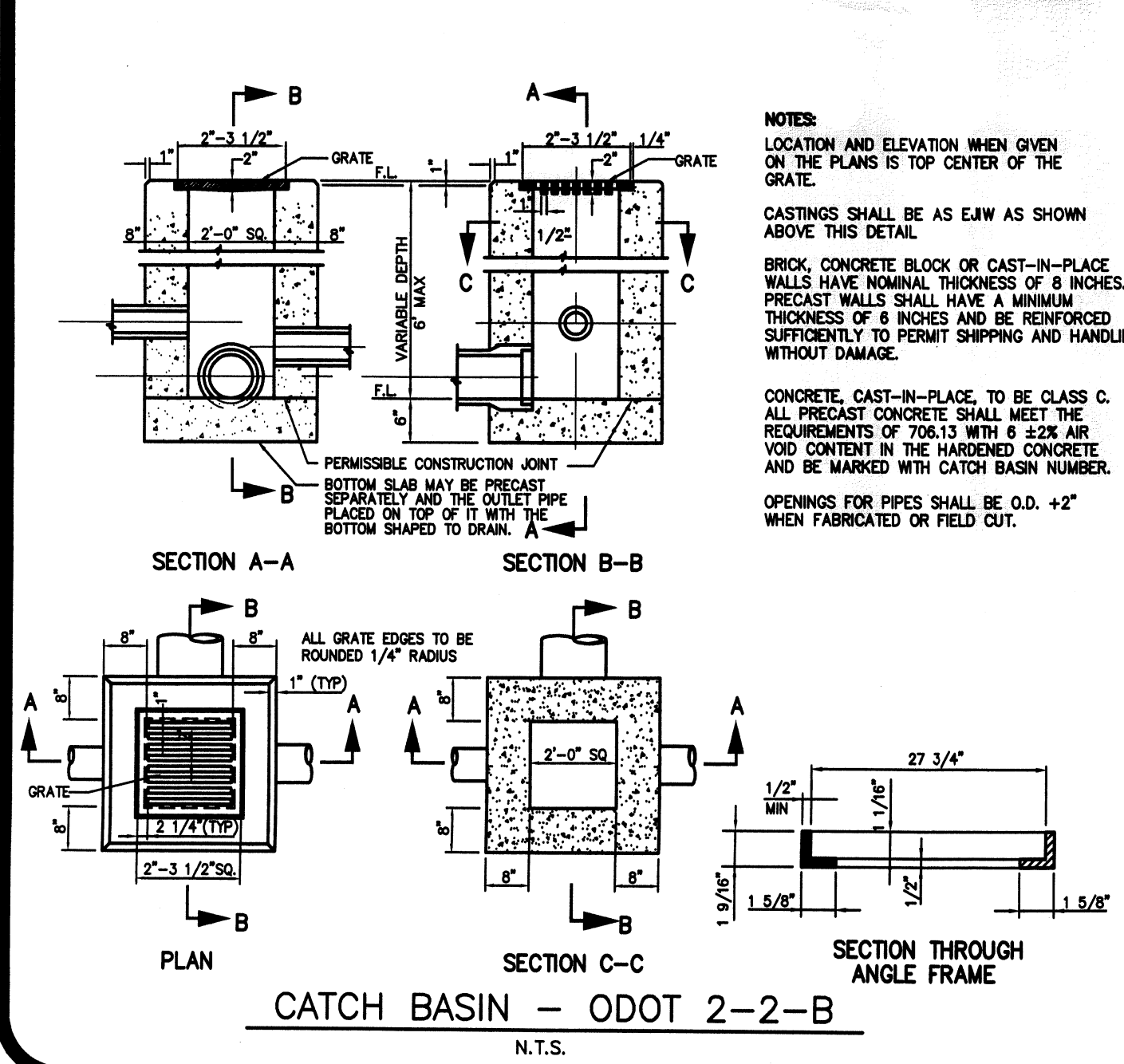
TYP. SIDEWALK SLAB DETAIL
N.T.S.



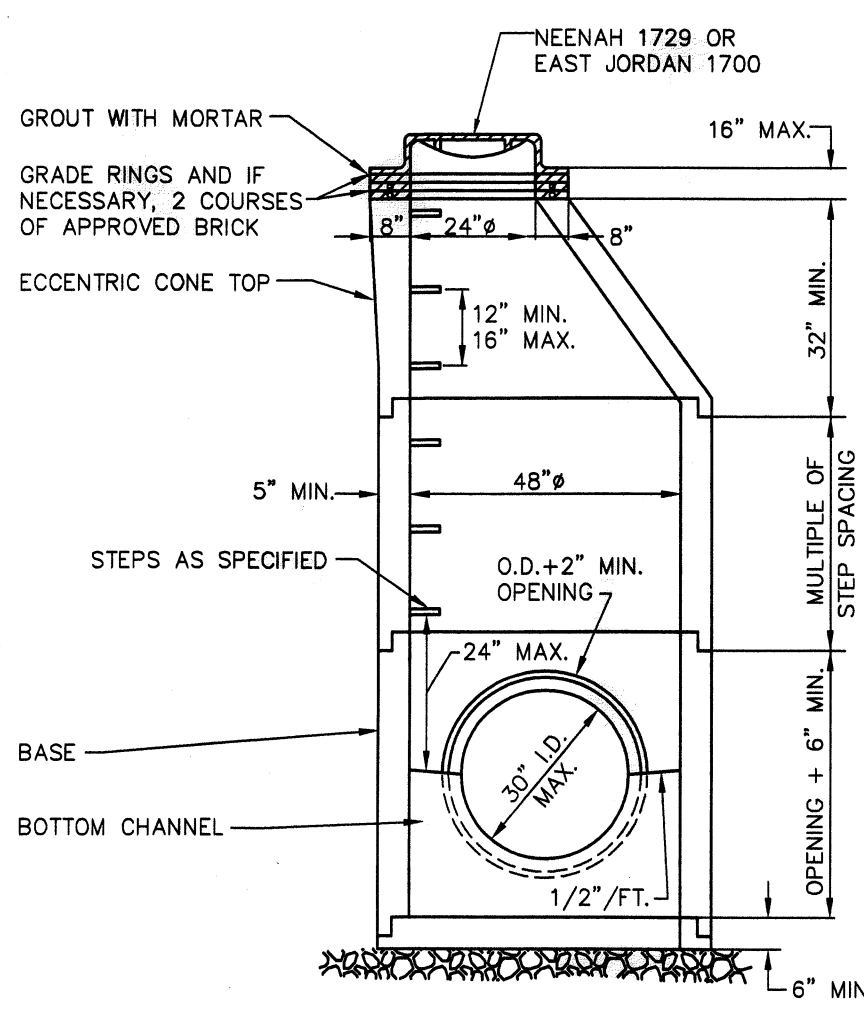
TYP. "RODENT-RUN" DETAIL
N.T.S.



TYPICAL FLEXIBLE PIPE TRENCH DETAIL
N.T.S.



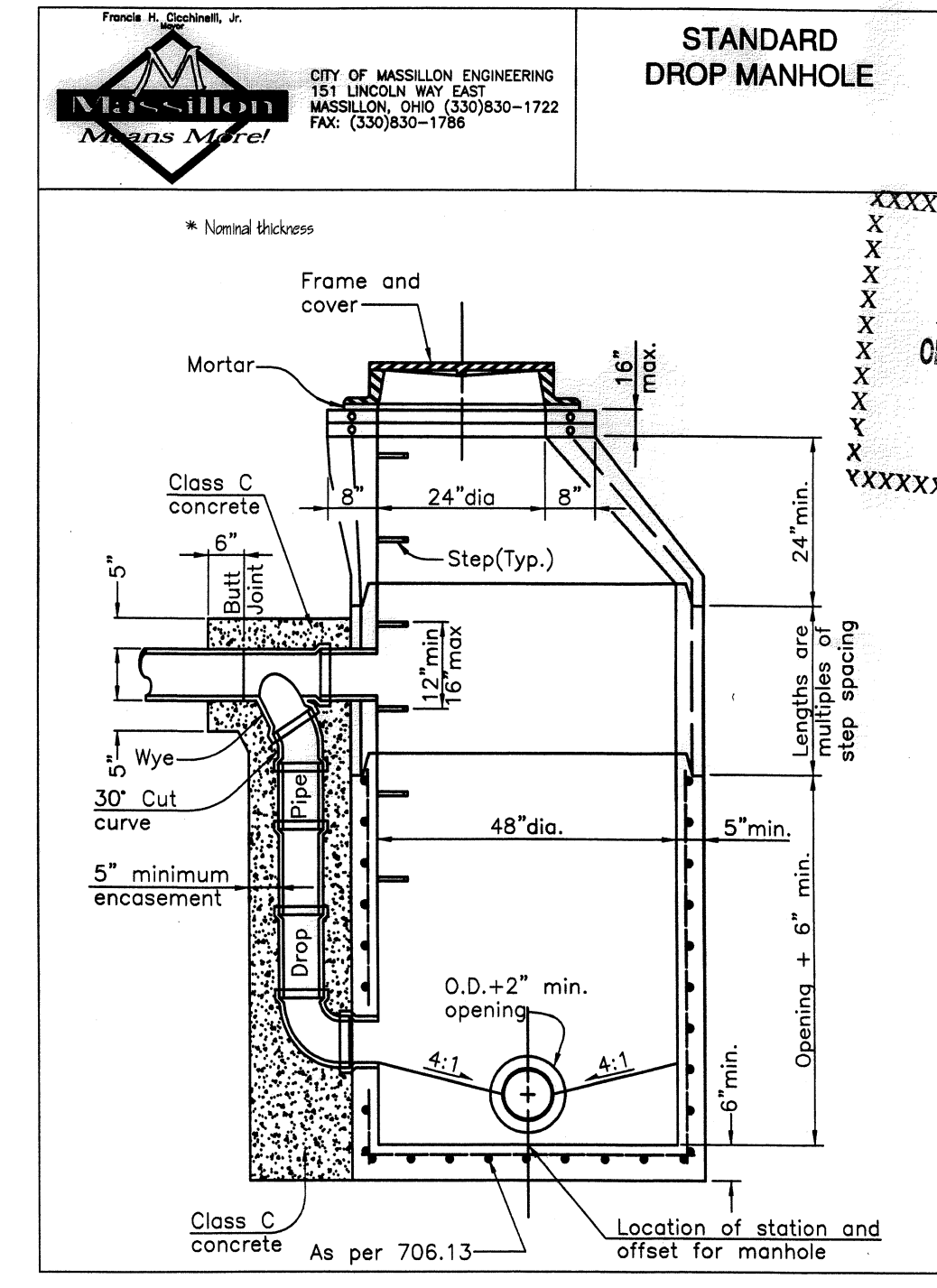
CATCH BASIN - ODOT 2-2-B
N.T.S.



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. #041.

SITE DETAILS

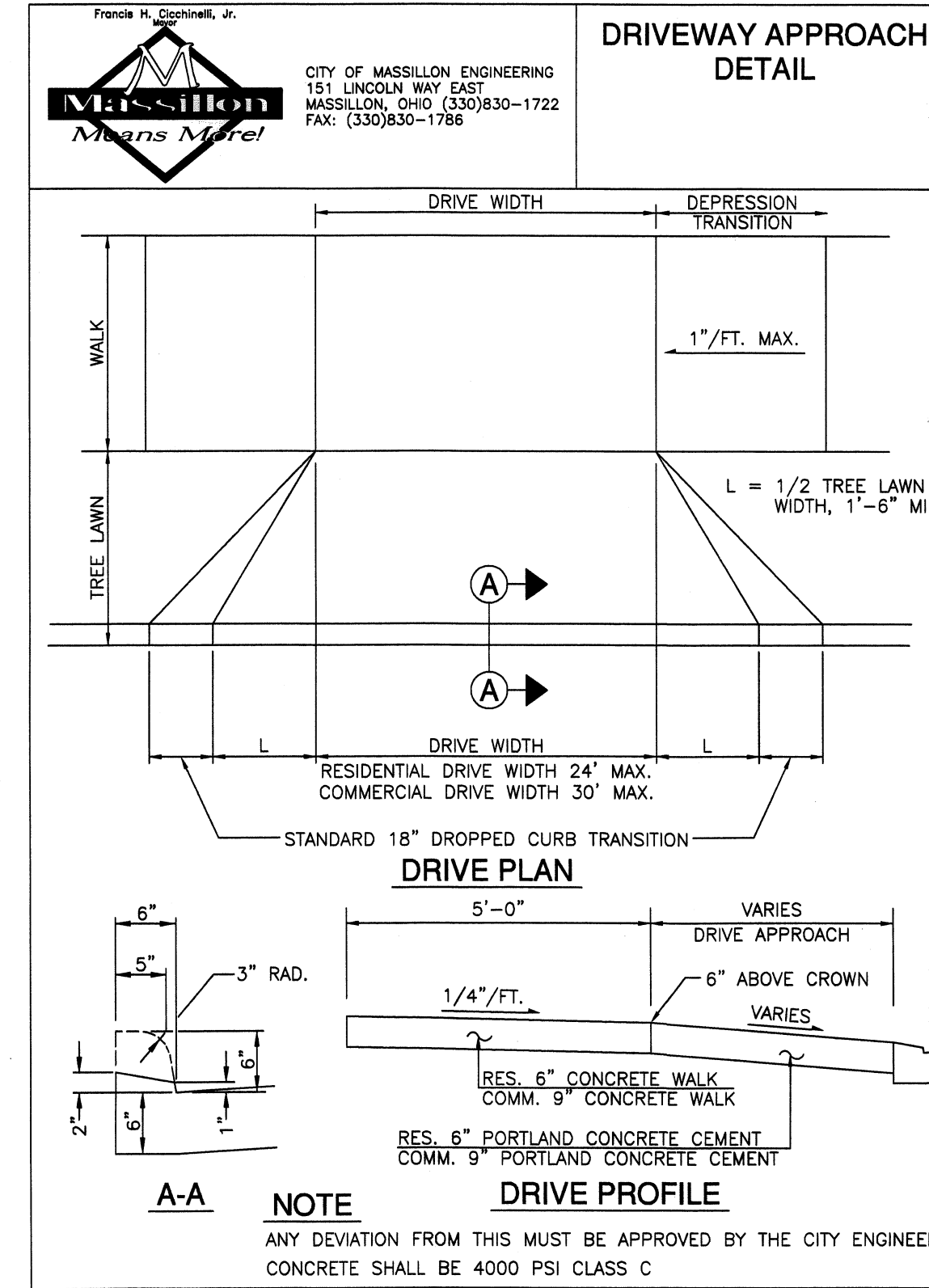
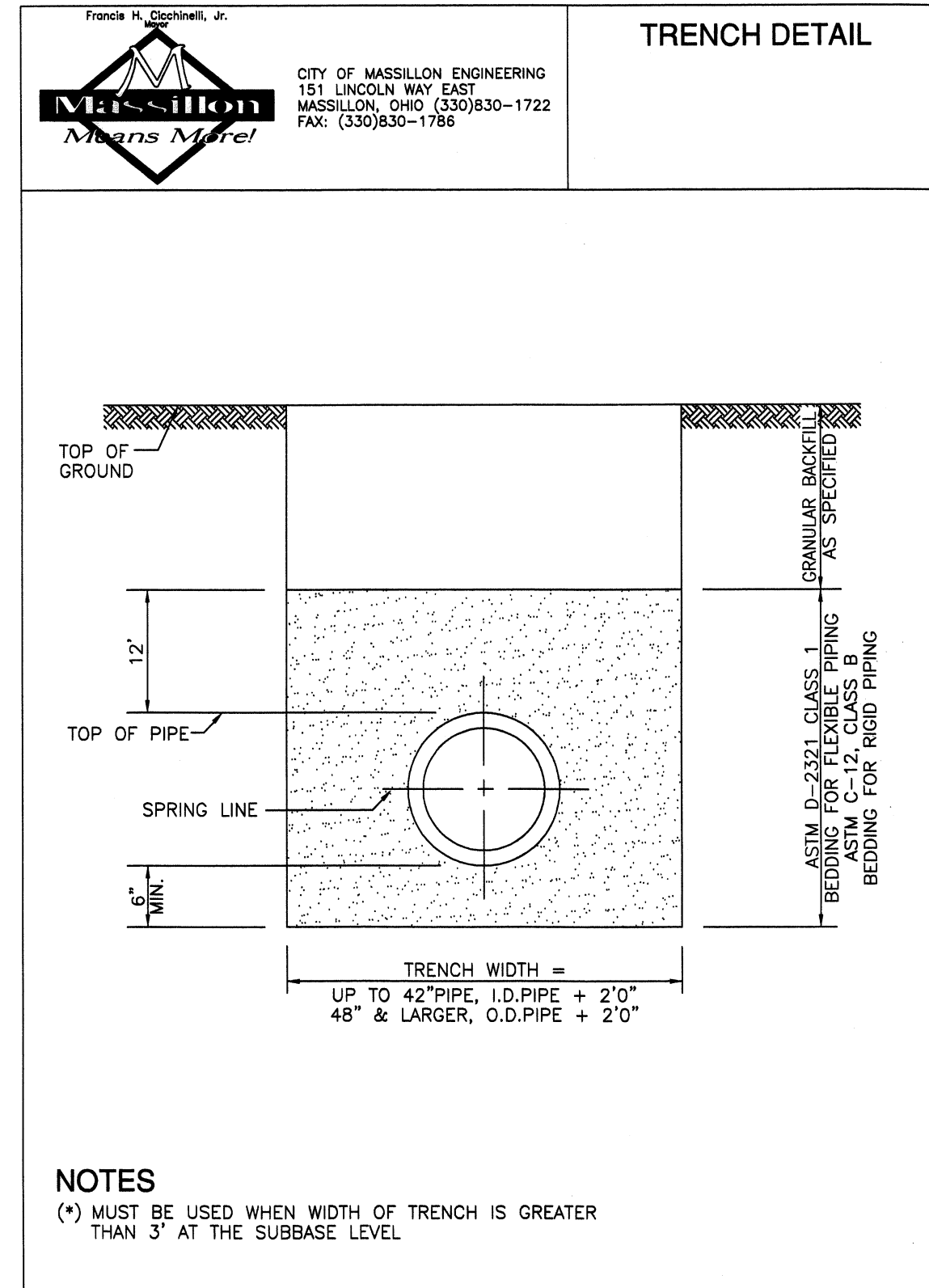
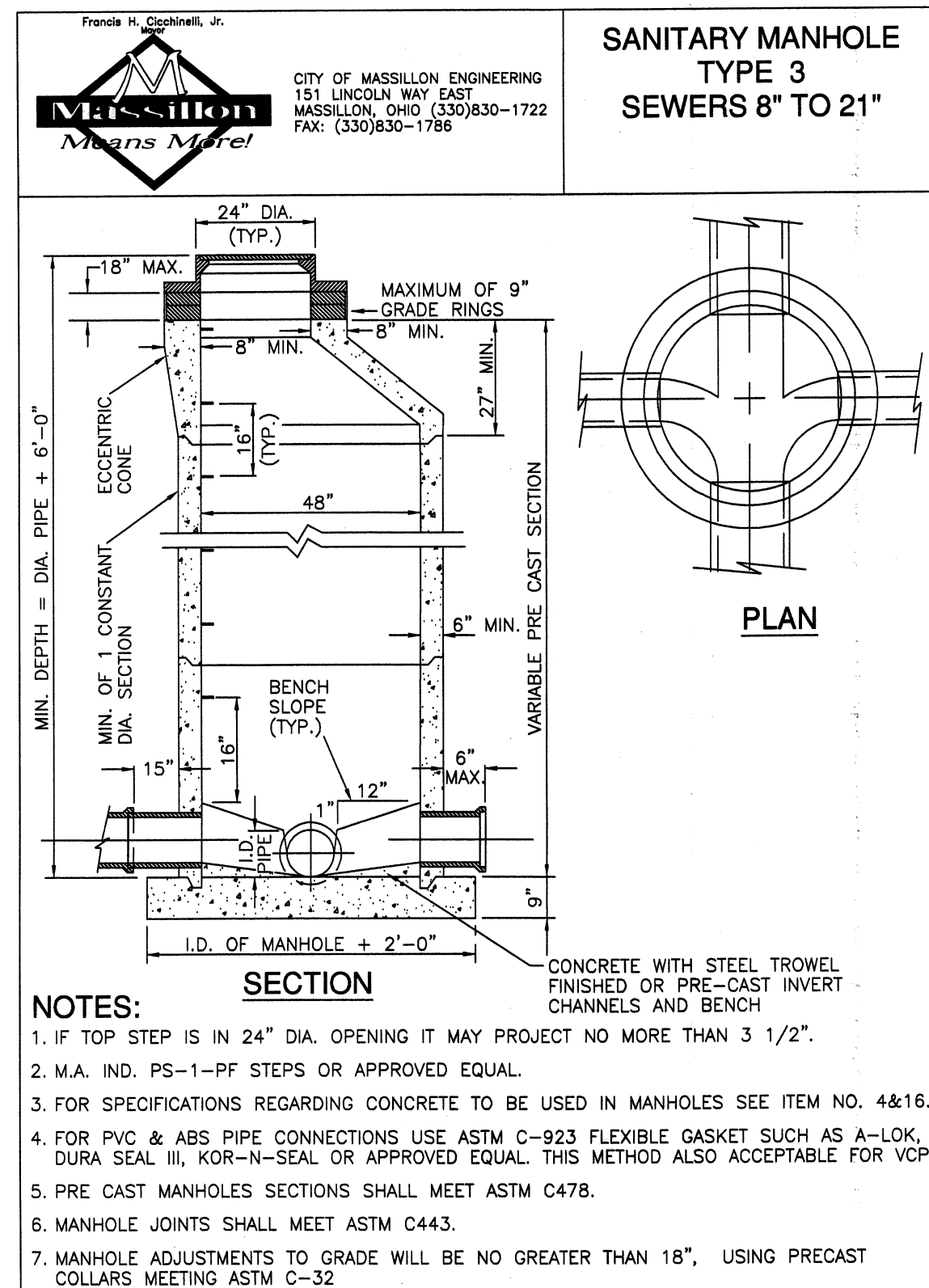


PRECAST DROP MANHOLE
N.T.S.

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Project Number C9010	Sheet C7
Date 05-29-09	
Scale AS SHOWN	



STOP

**ALL REVISIONS MADE TO THIS
DRAWING AFTER 03/27/09 SHALL
BE DATED AND DESCRIBED BELOW.
THIS DRAWING WAS LAST REVISED
ON 03/27/09.**

NO	DATE	REVISION DESCRIPTION
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3	00/00/00	AAAAA
4	00/00/00	AAAAA
5	00/00/00	AAAAA
6	00/00/00	AAAAA

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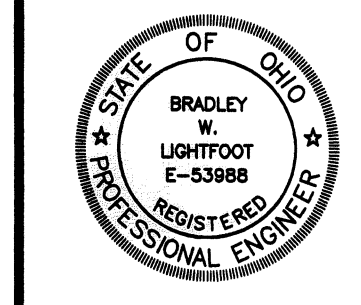
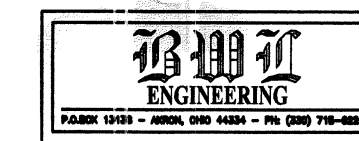
SANITARY SEWER NOTES

- SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO CITY OF MASSILLON ENGINEERING DEPARTMENT SPECIFICATIONS AND DETAILS IN EFFECT AT TIME OF CONSTRUCTION.
- ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
- THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS ALONG THE ROUTE OF THE SANITARY SEWER AT LEAST THREE (3) DAYS PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL ALERT THE UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION.
- 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.
- 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.
- BULKHEADS SHALL BE ERRECTED 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.
- MINIMUM VERTICAL CLEARANCE BETWEEN SANITARY SEWER AND WATERLINE SHALL BE 18 INCHES. MINIMUM HORIZONTAL SEPARATION SHALL BE 10 FT.
- SANITARY SEWER SERVICE LATERALS SHALL BE 6-INCH DIAMETER AND BE LAID AT NO LESS THAN 1.0% GRADE.
- 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.
- 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.

- MINIMUM COVER OVER SANITARY SEWER SHALL BE 4 FT.
- 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
DCP (GLASS 92)	AWWA C-151	AWWA C-110/C-111	AWWA C-151
ABS COMPOSITE	ASTM D-2680	ASTM D-2235	ASTM D-2680
PVC COMPOSITE	ASTM D-2680	ASTM D-2584	ASTM D-2680

- 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 PROCEDURE SHALL BE IN ACCORDANCE WITH CITY OF MASSILLON ENGINEERING DEPARTMENT SPECIFICATIONS.
- 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.
- 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.
- 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.
- CONNECTIONS TO EXISTING MANHOLES SHALL BE CORE DRILLED, WITH BENCHES AND CHANNELS FORMED AND REPAIRED AS NECESSARY.
- ANY MANHOLE DROP ATTACHMENTS SHALL BE "OUTSIDE" TYPE.
- 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.
- 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.
- SANITARY PERMITS ARE REQUIRED, CONTACT THE CITY OF MASSILLON ENGINEERING DEPARTMENT FOR LICENSE AND PERMIT REQUIREMENTS.



PHONE (330) 833-8387
FAX (330) 833-3740

**JOHN PATRICK PICARD
ARCHITECT
INCORPORATED**

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



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

Project Number
09010
Date
05-29-09
Scale
AS SHOWN

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