



Worcester County Administration Office
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Snow Hill, MD 21863
Ph. 410-632-1194 Fax 410-632-3131
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**Addendum # 1 Mystic Harbour Water Treatment Plant
Backwash Pond Cleaning**
Date of Addendum: 1/25/24

NOTICE TO ALL BIDDERS AND PLANHOLDERS
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The Bid Documents for the above-referenced Project are modified as set forth in this Addendum. The original Bid Documents and any previously issued addenda remain in full force and effect, except as modified by this Addendum, which is hereby made part of the Bid Documents. Vendors will take this Addendum into consideration when preparing and submitting a bid, and shall acknowledge receipt of this Addendum in the space provided in the Bid Documents.
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BID SUBMITTAL DEADLINE

The bid submittal time has not been changed.
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1.0 – ATTACHMENTS

Item	Description
1.1	Mystic Harbour Water Treatment Plant Upgrades Backwash Basin Relocation – As-Build Drawings

END OF ADDENDUM

MYSTIC HARBOUR WATER TREATMENT PLANT UPGRADES

BACKWASH BASIN RELOCATION

WORCESTER COUNTY DEPT. OF PUBLIC WORKS

TENTH TAX DISTRICT, BERLIN, WORCESTER COUNTY, MARYLAND

GENERAL NOTES :

1. ALL WORK REQUIRED BY THESE DOCUMENTS (DRAWINGS AND SPECIFICATIONS) SHALL BE NEW. WHEREVER THE WORD "PROPOSED" IS USED IT IS CONSIDERED INTERCHANGEABLE WITH THE WORD "NEW" AND IS INCLUDED IN THE REQUIRED WORK.

2. ALL ELEVATIONS, TOPOGRAPHY AND ALIGNMENTS SHOWN ARE BASED UPON THE EXISTING CONDITIONS AND TOPOGRAPHIC SURVEY AND PRELIMINARY PLAT PREPARED BY FRANK LYNCH AND ASSOCIATES, DATED NOV. 2001 AND THE GRADING PLAN PREPARED BY R.D. HAND AND ASSOC., INC., DATED 10/31/01. THE ENGINEER DOES NOT WARRANT THAT THIS INFORMATION IS ENTIRELY CORRECT. AS-BUILT INFORMATION SHOWN BY JWSE, HAS BEEN PROVIDED BY THE OWNER'S CONTRACTOR. JWSE DOES NOT WARRANT THAT AS-BUILT INFORMATION PROVIDED BY OTHERS IS ENTIRELY CORRECT.

3. UNLESS OTHERWISE NOTED, ALL ELEVATIONS FOR GRAVITY, STORM AND SANITARY SEWER PIPES ARE INVERTS AND ALL ELEVATIONS FOR PRESSURE WATER OR FORCE MAINS ARE TOP OF PIPE ELEVATIONS.

4. THESE DRAWINGS SHOW INFORMATION REGARDING UNDERGROUND UTILITIES WHICH EXIST ALONG THE LINES OF WORK. THE LOCATION OF UTILITIES SHOWN HAS BEEN PROVIDED FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS SATISFACTION PRIOR TO CONSTRUCTION. THE OWNER SHALL BE GIVEN NOTIFICATION BY THE CONTRACTOR PRIOR TO TEST PITTING. THE OWNER AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF SAID INFORMATION. IF THE CONTRACTOR RELIES ON SAID INFORMATION HE DOES SO AT HIS OWN RISK. THE GIVING OF THE INFORMATION ON THESE DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATIONS TO SUPPORT AND PROTECT ALL EXISTING UTILITIES AND APPURTENANCES. SHOULD ANY EXISTING UTILITIES BE DAMAGED BY THE CONTRACTOR, THE CONTRACTOR SHALL REPAIR THE DAMAGE CAUSED, TO THE UTILITY OWNER'S SATISFACTION, AT THE CONTRACTOR'S EXPENSE.

5. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THESE DRAWINGS AND SPECIFICATIONS, AND TO ALL APPLICABLE REQUIREMENTS OF WORCESTER COUNTY, WORCESTER COUNTY DEVELOPMENT REVIEW, WORCESTER COUNTY WATER AND WASTEWATER SERVICES, WORCESTER COUNTY ROADS, MARYLAND STATE HIGHWAY ADMINISTRATION, MARYLAND DEPARTMENT OF THE ENVIRONMENT, MARYLAND DEPARTMENT OF NATURAL RESOURCES, THE ARMY CORP. OF ENGINEERS AND THE FEDERAL ENVIRONMENTAL PROTECTION AGENCY, ALONG WITH ANY OTHER REGULATORY BODY THAT HAS JURISDICTION.

6. ALL DISTURBED AREAS SHALL BE SMOOTHLY GRADED TO PROVIDE POSITIVE DRAINAGE, AWAY FROM PROPOSED STRUCTURES, AND SHALL BE STABILIZED WITH TOPSOIL, SEED AND MULCH, EXCEPT IN AREAS CALLING FOR PAVING. IF SETTLEMENT OCCURS, THE AREA OF SETTLEMENT SHALL BE RESTORED TO GRADE, RESEEDED AND REMULCHED TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL PROVIDE SEED TYPE AS SPECIFIED.

7. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY DEVIATIONS FROM THESE DRAWINGS AND SPECIFICATIONS.

8. THE CONTRACTOR SHALL PROVIDE NECESSARY STAKE OUT OF LINE AND GRADE FOR CONSTRUCTION.

9. THE OWNER RESERVES THE RIGHT TO AWARD OTHER CONTRACTS OR PERFORM OTHER WORK IN THE VICINITY OF WORK DESIGNATED ON THESE DRAWINGS. THE CONTRACTOR SHALL COOPERATE WITH AND COORDINATE HIS OPERATIONS WITH OTHER CONTRACTORS OR WORKMEN EMPLOYED BY THE OWNER.

10. NO INFORMATION REGARDING DEPTH TO ANY TEMPORARY OR PERMANENT GROUND WATER TABLE IS PROVIDED ON THESE DRAWINGS. THE CONTRACTOR SHALL INVESTIGATE TO HIS SATISFACTION THE SITE CONDITIONS REGARDING THE DEPTH TO GROUND WATER. GENERALLY, PIPING, TRENCH AND STRUCTURE CONSTRUCTION SHALL BE PROSECUTED IN A DEWATERED STATE, CONSISTENT WITH GOOD CONSTRUCTION PRACTICES. ALL EXCAVATIONS FOR MANHOLES AND OTHER CHAMBERS SHALL BE CONTINUALLY DEWATERED UNTIL THE BACKFILL OPERATION HAS BEEN COMPLETED. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR TEST PITTING.

11. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.

12. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING, TWO (2) DAYS PRIOR TO BEGINNING ANY WORK SHOWN ON THESE DRAWINGS.

A) WORCESTER COUNTY DEPT. OF PUBLIC WORKS (410) 641.5251
 B) MISS UTILITY (800) 441-8355
 C) J. W. SALM ENGINEERING, INC. (302) 436-7570
 D) M.H. UTILITIES CORP. (410) 213-1900

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS RESULTING FROM ANY EARTH MOVING AND/OR TEMPORARY STOCKPILING OF EARTH OR OTHER MATERIALS ON SITE. STOCKPILE SITES ARE DESIGNATED BY THE ENGINEER ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVISING THE SOIL EROSION AND SEDIMENT CONTROL PLAN, SHOULD THE CONTRACTOR DEVIATE FROM THESE DRAWINGS.

14. THESE DRAWINGS, THE DESIGN AND CONSTRUCTION FEATURES DISCLOSED ARE PROPRIETARY TO J. W. SALM ENGINEERING, INC. AND SHALL NOT BE ALTERED OR REUSED WITHOUT WRITTEN PERMISSION. COPYRIGHT, LATEST DATE HEREON. ANY DRAWING, REPRODUCTION, PLOT, ETC., WITHOUT A WET INK SIGNATURE AND SEAL IS NOT CERTIFIED BY J.W. SALM ENGINEERING AS TO ACCURACY AND AUTHENTICITY.

15. TRENCH COMPACTION FOR ALL UTILITIES SHALL BE AS FOLLOWS:

- A. FOR AREAS WITHIN THE ROAD RIGHT-OF-WAY: 95% OF MODIFIED PROCTOR DENSITY AT +/- 2% OF OPTIMUM MOISTURE CONTENT.
- B. FOR NON-RIGHT-OF-WAY AREAS: 90% OF MODIFIED PROCTOR DENSITY AT +/- 3% OF OPTIMUM MOISTURE CONTENT.

16. THE CONTRACTOR SHALL PRESSURE TEST AND CHLORINATE AND TEST ALL WATER MAINS IN THE PRESENCE OF WORCESTER COUNTY, IN ACCORDANCE WITH WORCESTER COUNTY STANDARDS. COPIES OF ALL TEST REPORTS, INCLUDING BACTERIOLOGICAL TESTING, SHALL BE PROVIDED TO WORCESTER COUNTY. SAMPLES SHALL BE COLLECTED AND SENT FOR TESTING BY WORCESTER COUNTY.

17. THE CONTRACTOR SHALL PROVIDE CUT SHEETS FOR ALL WATER, SEWER & STORM DRAIN CONSTRUCTION. CUT SHEETS SHALL BE PREPARED BY A LICENSED SURVEYOR & PROVIDED TO THE ENGINEER FOR REVIEW, PRIOR TO INSTALLING PIPE OR STRUCTURES.

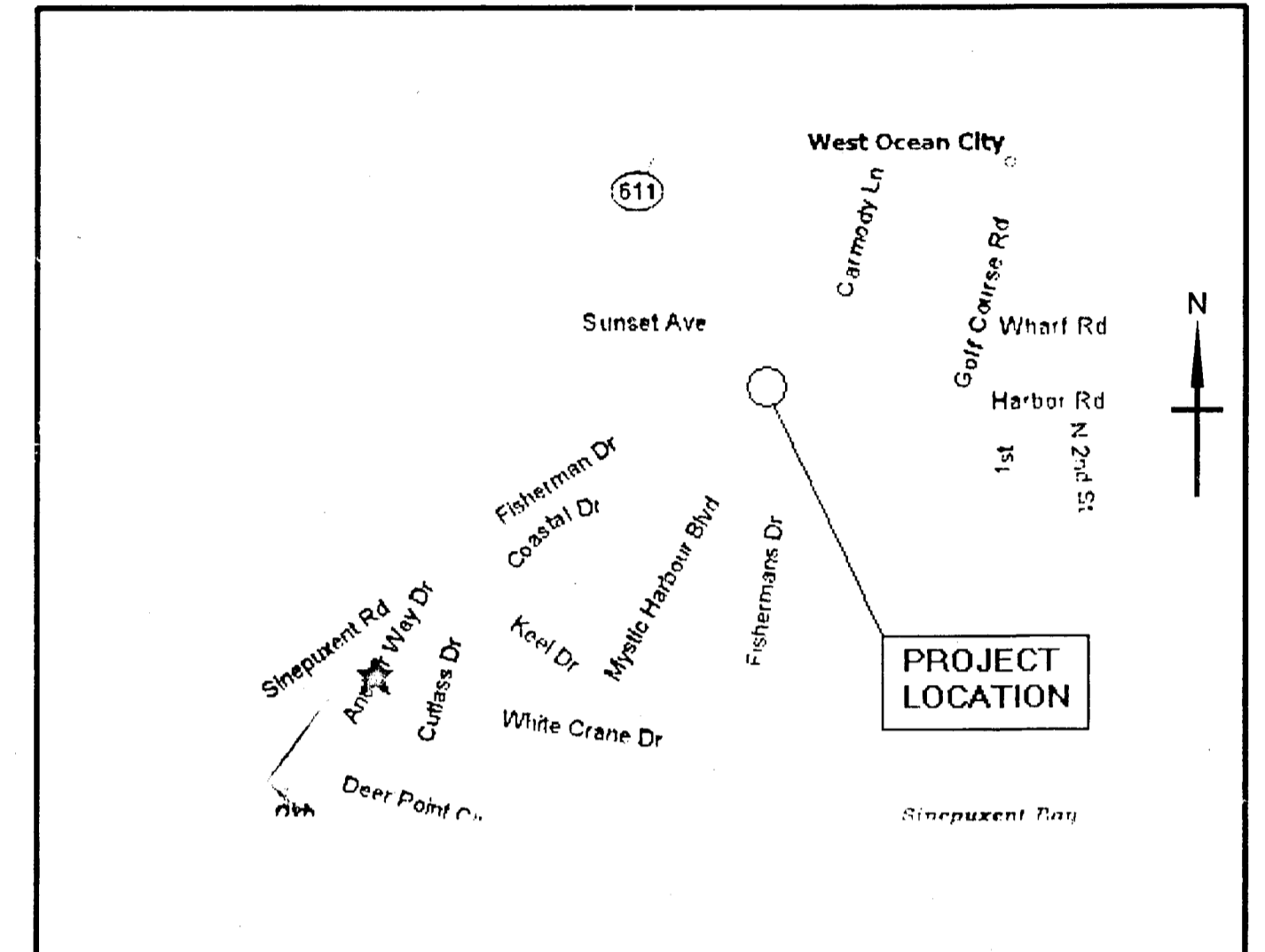
LEGEND :

EXISTING FEATURES

WATER MAIN, VALVE	EX. 16" W	
GRAVITY SEWER, MANHOLE	EX. 8" S	
STORM DRAIN, MANHOLE	EX. 12" SD	
RETURN WATER LINE	EX. 12" R.W.	
BACKWASH LINE	EX. 10" BW	
LOT LINE		
CONTOUR		
EDGE OF PAVEMENT		
UTILITIES	E	
FORCE MAIN	4" DFP F.M.	
FENCE		

PROPOSED FEATURES

BACKWASH LINE	P. 8" B.W. (PVC)	
STORM DRAIN LINE	P. 4" SD (PVC)	
CONTOUR		



VICINITY MAP
SCALE : 1" = 1,261 FT.

INDEX OF DRAWINGS:

DRAWING No.:	SHEET No.:	TITLE
109-01-101	1 of 5	COVER SHEET, NOTES, LEGEND, INDEX, AND VICINITY MAP
109-01-102	2 of 5	OVERALL PLAN
109-01-103	3 of 5	WTP PARTIAL SITE PLAN
109-01-104	4 of 5	DETAILS, SUBMITTAL NOTES AND SCHEDULE
109-01-105	5 of 5	LINER PANEL LAYOUT AND DETAILS

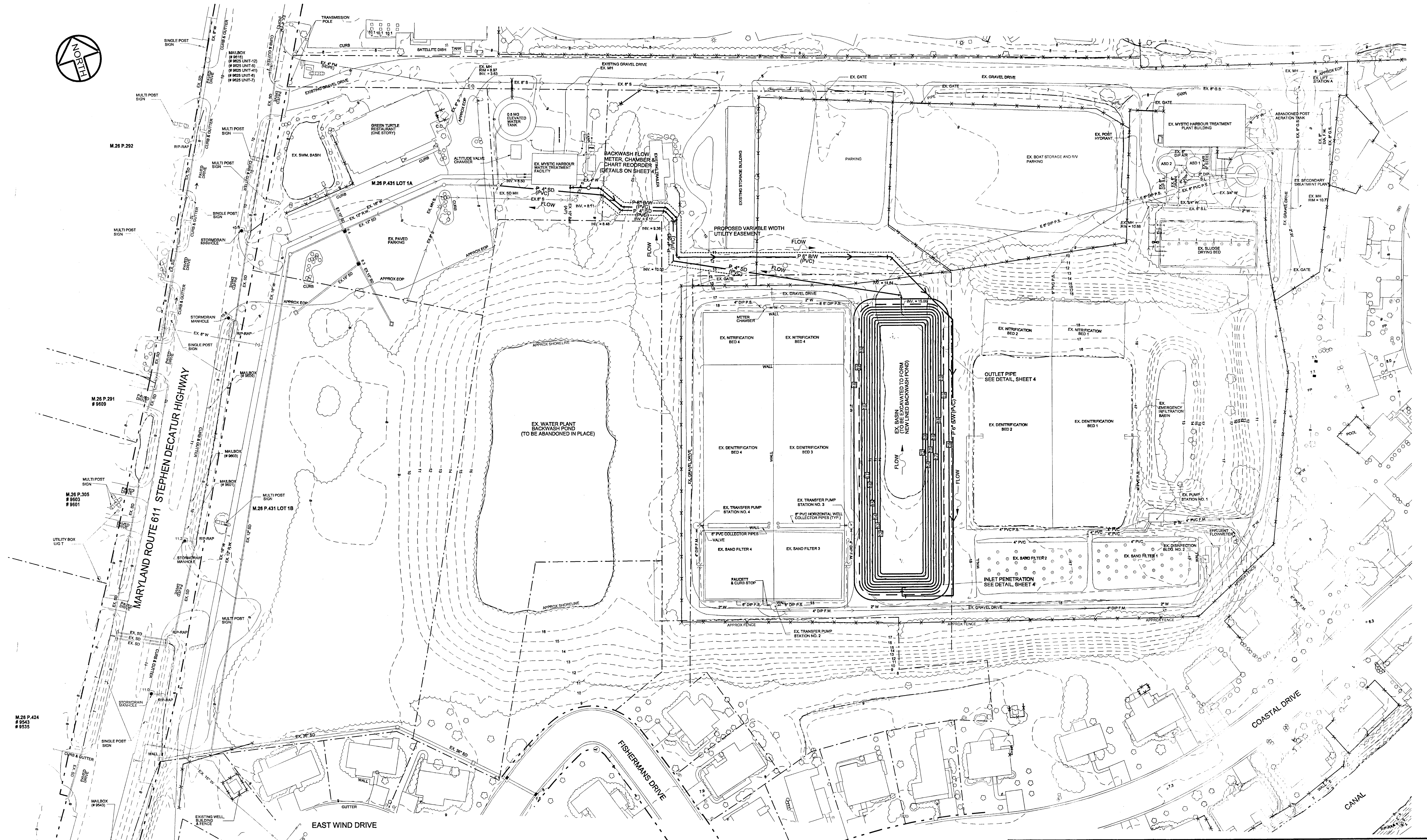
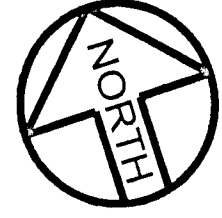
AS-BUILT

OWNER:
WORCESTER COUNTY DEPT. OF PUBLIC WORKS
 1000 SHORE LANE
 BERLIN, MD 21811
 PHONE : 410.641.5251

APPLICANT:
M.H. UTILITIES CORP.
 9428 STEPHEN DECATUR HWY.
 BERLIN, MD 21811
 PHONE : 410.213.1900

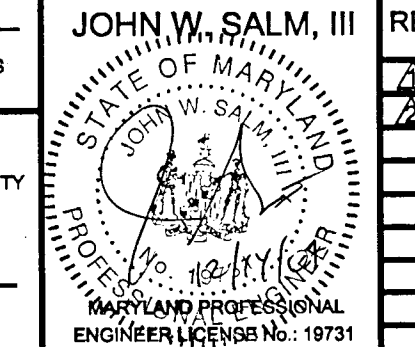
ENGINEER:
J. W. SALM ENGINEERING, INC.
 P.O. BOX 129
 65 NORTH DUPONT HIGHWAY
 SELBYVILLE, MD 19975
 PHONE : 302.436.7570

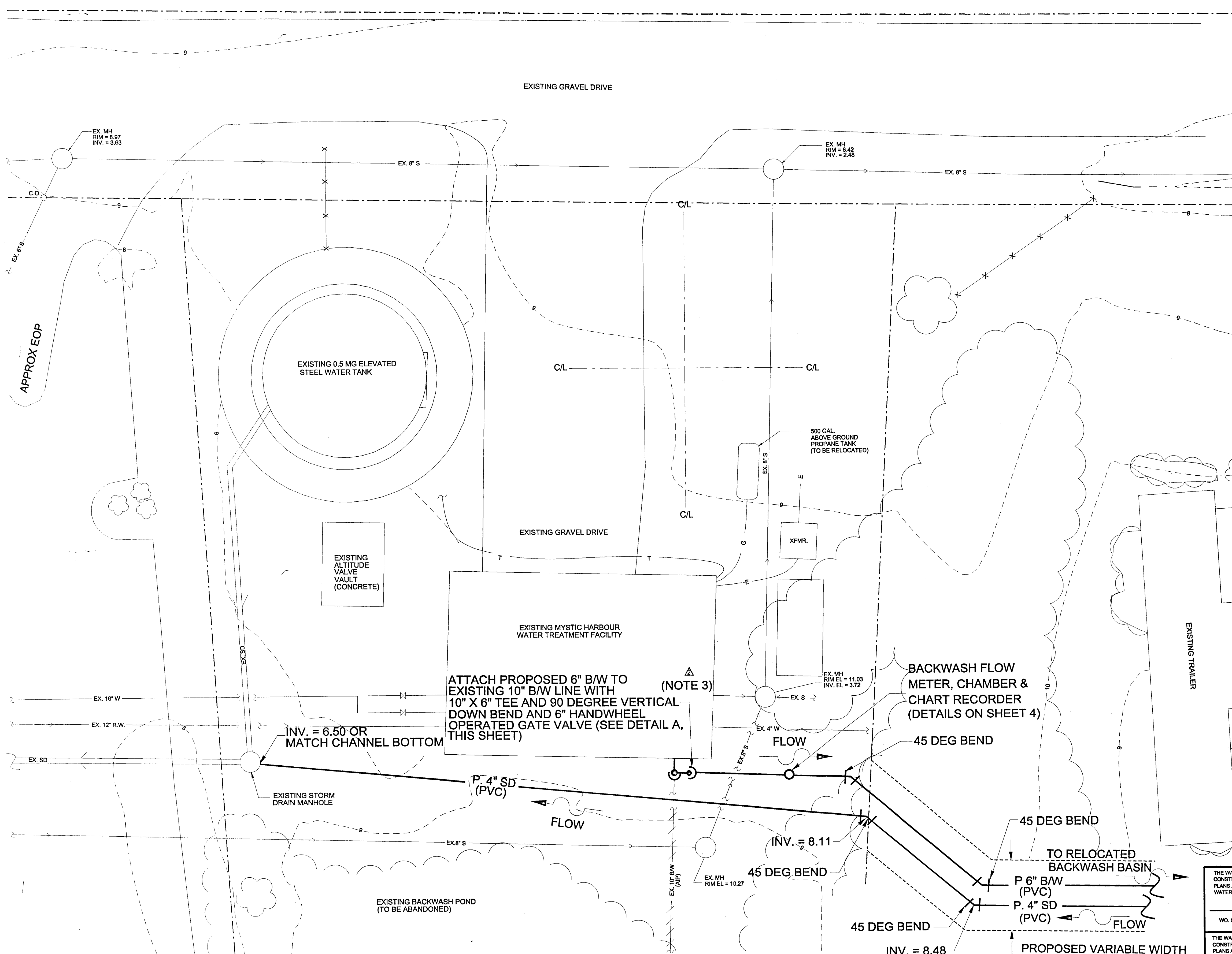
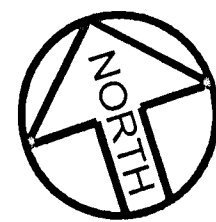
THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY WATER AND WASTEWATER SERVICES	DESIGNED BY: SK	DRAWN BY: MG	CHECKED BY: JWS3	COVER SHEET, NOTES, LEGEND, INDEX AND VICINITY MAP
DIRECTOR WO. CO., WATER & WASTEWATER SERVICES	REVISIONS			
THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS.				MYSTIC HARBOUR WATER TREATMENT PLANT UPGRADES BACKWASH BASIN RELOCATION WORCESTER COUNTY DEPT. OF PUBLIC WORKS TENTH ELECTION DISTRICT BERLIN WORCESTER COUNTY MARYLAND J. W. SALM ENGINEERING, INC. P.O. BOX 129, 62 NORTH DUPONT HIGHWAY SELBYVILLE, DE 19975
DIRECTOR WO. CO., DEPARTMENT OF PUBLIC WORKS	SCALE: AS SHOWN	DATE: MAR. 2007	DRAWING No.: 109-01-101	SHEET No.: 1 of 5



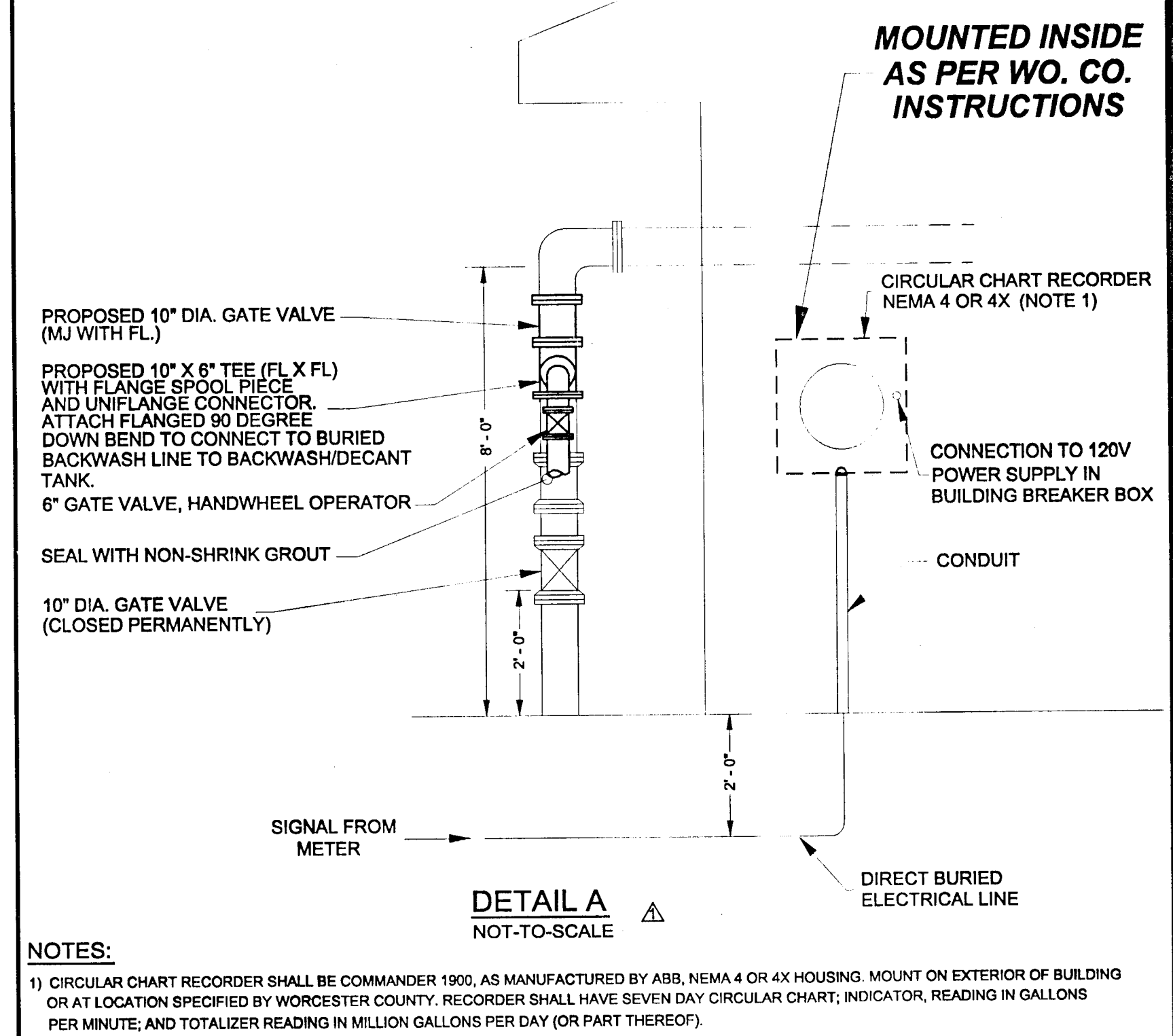
AS-BUILT

NOTES:
1) 6" BW PIPE SHALL BE SDR-21 PVC PUSH-ON-JOINT PIPE. FITTINGS SHALL BE DUCTILE IRON, MECHANICAL JOINT WITH RETAINER GLAND. PROVIDE THRUST BLOCKS.
2) 4" SD PIPE SHALL BE SDR-35 PVC PUSH-ON-JOINT PIPE. FITTINGS SHALL BE SCH-40 SOLVENT WELDED.
3) DRAINING AND DECANTING OF BACKWASH POND, IF EVER REQUIRED, WILL BE VIA PORTABLE PUMP TO SAND FILTER 1, SAND FILTER 2, OR SLUDGE DRYING BED.

THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY WATER AND WASTEWATER SERVICES				DESIGNED BY:	DRAWN BY:	CHECKED BY:	OVERALL PLAN	
WD. CO., WATER & WASTEWATER SERVICES				SK	MG	JWS3	MYSTIC HARBOUR WASTEWATER TREATMENT PLANT UPGRADES	
THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS.							BACKWASH BASIN RELOCATION WORCESTER COUNTY DEPT. OF PUBLIC WORKS TENTH ELECTION DISTRICT BERLIN WORCESTER COUNTY MARYLAND	
				REVISIONS 04/10/07 08/08/07			I. W. SALM ENGINEERING, INC. P.O. BOX 129, 62 NORTH DUPONT HIGHWAY SELBYVILLE, DE 19975	
				SCALE:	DATE:	DRAWING No.:	SHEET No.:	
				1" = 50'	MAR. 2007	109-01-102	2 of 5	



PLAN
SCALE: 1" = 10'



NOTES:
1) CIRCULAR CHART RECORDER SHALL BE COMMANDER 1000, AS MANUFACTURED BY ABB, NEMA 4 OR 4X HOUSING. MOUNT ON EXTERIOR OF BUILDING OR AT LOCATION SPECIFIED BY WORCESTER COUNTY. RECORDER SHALL HAVE SEVEN DAY CIRCULAR CHART; INDICATOR, READING IN GALLONS PER MINUTE; AND TOTALIZER READING IN MILLION GALLONS PER DAY (OR PART THEREOF).

DIAMETER (Ø) OF PIPE		6" NOMINAL
HOR. ANGLE: FROM 10° TO 45°	A:	2.0 FT
HOR. ANGLE: FROM 46° TO 90°	A:	4.0 FT
TEE CONNECTION:	A:	3.0 FT
LATERAL CROSS CONNECTION:	A:	3.0 FT
	B:	6.0 FT
VERTICAL BEND #5 BAR:	A:	AS SHOWN

THRUST BLOCK DETAIL
(REF. AWWA C600)
NOT TO SCALE

- 1) ALL HORIZONTAL BENDS SHALL HAVE CONCRETE THRUST BLOCKS WITH MINIMUM BEARING AREAS AGAINST UNDISTURBED SOIL AS SHOWN IN THIS DRAWING.
- 2) BEARING AREAS ARE BASED UPON UNDISTURBED SOIL WITH A MINIMUM BEARING CAPACITY OF 0.5 TONS PER SQUARE FOOT. FOR LESSER SOIL CAPACITY, THESE AREAS SHALL BE INCREASED ACCORDINGLY.
- 3) THRUST BLOCKS SHALL BE POURED DIRECTLY AGAINST TRENCH WALLS.
- 4) NO JOINT SHALL BE COVERED WITH CONCRETE.
- 5) CONCRETE SHALL BE OF A MINIMUM OF 2500 P.S.I. STRENGTH.

- NOTES:
- 1) 6" B/W PIPE SHALL BE SDR-21 PVC PUSH-ON-JOINT PIPE. FITTINGS SHALL BE DUCTILE IRON, MECHANICAL JOINT WITH RETAINER GLAND. PROVIDE THRUST BLOCKS.
 - 2) 4" SD PIPE SHALL BE SDR-35 PVC PUSH-ON-JOINT PIPE. FITTINGS SHALL BE SCH-40 SOLVENT WELDED.
 - 3) EXISTING BYPASS VALVE INSIDE BUILDING, NORMALLY CLOSED.

AS-BUILT

THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY WATER AND WASTEWATER SERVICES		DESIGNED BY: SK	DRAWN BY: MG	CHECKED BY: JWS3	WTP PARTIAL SITE PLAN MYSTIC HARBOUR WATER TREATMENT PLANT UPGRADES BACKWASH BASIN RELOCATION WORCESTER COUNTY DEPT. OF PUBLIC WORKS TENTH ELECTION DISTRICT BERLIN WORCESTER COUNTY MARYLAND
DIRECTOR WO. CO., WATER & WASTEWATER SERVICES		JOHN W. SALM, III REVISIONS 04/10/07 06/08/07			
THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS					J. W. SALM ENGINEERING, INC. P.O. BOX 129, 62 NORTH DUPONT HIGHWAY SELBYVILLE, DE 19975
DIRECTOR WO. CO., DEPARTMENT OF PUBLIC WORKS		SCALE: AS SHOWN	DATE: MAR. 2007	DRAWING No.: 109-01-103	

SUBMITTALS

1) SHOP DRAWINGS (SUBMIT SEVEN [7] COPIES)

- A) SHOP DRAWINGS SHALL BE ORIGINAL DRAWINGS, PREPARED BY THE CONTRACTOR, SUBCONTRACTOR, SUPPLIER OR DISTRIBUTOR, WHICH ILLUSTRATE SOME PORTION OF THE WORK, SHOWING, FABRICATION, LAYOUT, SETTING OR ERECTION DETAILS.
- B) PRESENT SHOP DRAWINGS IN A CLEAR AND THOROUGH MANNER. DETAILS SHALL BE IDENTIFIED BY REFERENCE TO SHEET AND DETAIL OR SCHEDULE SHOWN ON THESE DRAWINGS.
- C) REPRODUCTIONS OF MARKED CONTRACT DRAWINGS WILL NOT BE ACCEPTABLE.
- D) THE CONTRACTOR SHALL SUBMIT THE SPECIFIED NUMBER OF COPIES OF SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. AT THE TIME OF SUBMISSION, THE CONTRACTOR SHALL CALL TO THE ENGINEER'S ATTENTION, IN WRITING, ANY DEVIATIONS THAT THE SHOP DRAWINGS MAY HAVE FROM THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. ALL SHOP DRAWINGS SHALL BE SUBMITTED WITH AN INDEX AND A COVER LETTER MARKED EITHER "SUBMITTED AS SPECIFIED" OR "SUBMITTED AS EQUAL TO SPECIFIED".
- E) EACH COPY OF THE SHOP DRAWINGS SHALL BE MARKED TO IDENTIFY ALL OPTIONS OR FEATURES THE EQUIPMENT WILL CONTAIN.
- F) ALL SHOP DRAWINGS, REGARDLESS IF "SUBMITTED AS SPECIFIED" OR "SUBMITTED AS EQUAL TO SPECIFIED", SHALL BE FURNISHED WITH COMPLETE, SPECIFIC DETAILED INFORMATION FROM THE MANUFACTURER OR SUPPLIER OF THE MATERIAL OR EQUIPMENT THE CONTRACTOR PROPOSES TO FURNISH, IN WHICH THE REQUIREMENTS OF THE SPECIFICATIONS ARE CLEARLY SHOWN TO BE MET. THIS SHALL INCLUDE A POINT BY POINT COMPARISON WITH THE DETAIL REQUIREMENTS OF THE SPECIFICATIONS.
- G) WHERE ANY ARTICLE IS SPECIFIED BY TRADE NAME OR NAME OF MANUFACTURER, WITH OR WITHOUT THE CLAUSE "OR EQUAL", IT IS INTENDED TO ESTABLISH THE QUALITY OF THE ARTICLE. THE CONTRACTOR MAY PROPOSE TO USE MATERIAL OR EQUIPMENT OF ANY OTHER MANUFACTURER AS AN "OR EQUAL" TO MATERIALS OR EQUIPMENT SPECIFIED.
- H) SUBSTITUTION OF EQUIPMENT OR MATERIALS OTHER THAN THOSE SPECIFIED WILL BE CONSIDERED, PROVIDING, IN THE OPINION OF THE ENGINEER, SUCH EQUIPMENT OR MATERIAL IS EQUAL TO OR BETTER THAN THAT SPECIFIED. THE DECISION OF THE ENGINEER WITH RESPECT TO APPROVAL OR DISAPPROVAL OF ANY MATERIAL OR EQUIPMENT PROPOSED TO BE SUBSTITUTED AS AN "OR EQUAL" IS FINAL. THE CONTRACTOR SHALL HAVE NO CLAIM OF ANY SORT BY REASON OF SUCH DECISION.
- I) IF THE CONTRACTOR PROPOSES TO SUBSTITUTE MATERIALS OR EQUIPMENT AS AN "OR EQUAL" TO THOSE SPECIFIED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH, IN ADDITION TO THE REQUIRED INFORMATION LISTED ABOVE, A POINT BY POINT COMPARISON OF THE MATERIAL OR EQUIPMENT SPECIFIED ON THESE DRAWINGS WITH THAT PROPOSED TO BE SUBSTITUTED. THE BURDEN OF RESPONSIBILITY IN FURNISHING THIS INFORMATION IS WITH THE CONTRACTOR.

2) PRODUCT DATA (SUBMIT SEVEN [7] COPIES)

- A) CLEARLY MARK EACH COPY TO IDENTIFY PERTINENT PRODUCTS OR MODELS. DELETE BY CLEARLY MARKING ALL NON-APPLICABLE INFORMATION. SHOW PERFORMANCE CHARACTERISTICS AND CAPACITIES. SHOW DIMENSIONS AND CLEARANCES REQUIRED. SHOW WIRING AND PIPING DIAGRAMS AND CONTROLS.
- B) MANUFACTURER'S STANDARD SCHEMATIC DRAWINGS AND DIAGRAMS SHALL BE MODIFIED TO DELETE INFORMATION NOT APPLICABLE TO THE WORK AND BE SUPPLEMENTED TO PROVIDE INFORMATION SPECIFICALLY APPLICABLE TO THE WORK.
- C) MANUFACTURER'S CATALOG SHEETS, BROCHURES, DIAGRAMS, ILLUSTRATIONS AND OTHER STANDARD DESCRIPTIVE DATA SHALL BE CLEARLY MARKED TO IDENTIFY PERTINENT MATERIALS, PRODUCTS OR MODELS AND SHOW DIMENSIONS AND CLEARANCES REQUIRED.

3) CERTIFICATIONS (CERTIFICATES OF COMPLIANCE) (SUBMIT SEVEN [7] COPIES)

- A) THE ENGINEER MAY PERMIT USE, BEFORE SAMPLING, AND TESTING OF CERTAIN MATERIALS OR ASSEMBLIES ACCOMPANIED BY CERTIFICATES OF COMPLIANCE STATING THAT SUCH MATERIALS OR ASSEMBLIES FULLY COMPLY WITH THESE DRAWINGS. THE CERTIFICATE SHALL BE SIGNED BY THE MANUFACTURER. EACH LOT OF MATERIALS OR ASSEMBLIES DELIVERED MUST BE ACCOMPANIED BY A CERTIFICATE OF COMPLIANCE IN WHICH THE LOT IS CLEARLY IDENTIFIED.
- B) MATERIALS OR ASSEMBLIES USED ON THE BASIS OF CERTIFICATES OF COMPLIANCE MAY BE SAMPLED AND TESTED AT ANY TIME. IF FOUND NOT IN CONFORMITY WITH THESE DRAWINGS, THEY WILL BE SUBJECT TO REJECTION WHETHER IN PLACE OR NOT.
- C) THE FORM AND DISTRIBUTION OF CERTIFICATES OF COMPLIANCE SHALL BE AS APPROVED BY THE ENGINEER.
- D) THE ENGINEER RESERVES THE RIGHT TO REFUSE PERMISSION FOR USE OF MATERIALS OR ASSEMBLIES ON THE BASIS OF CERTIFICATES OF COMPLIANCE.

- E) ALL MATERIALS USED WILL BE INSPECTED, SAMPLED AND TESTED IN ACCORDANCE WITH THESE REQUIREMENTS AND OTHERS AS SET FORTH ELSEWHERE IN THESE DRAWINGS, IN WHICH PARTICULAR REFERENCE IS MADE TO A SPECIFIC MATERIAL. UNLESS OTHERWISE DESIGNATED, TESTS WILL BE MADE IN ACCORDANCE WITH THE MOST RECENTLY PUBLISHED, CITED STANDARD, TENTATIVE OR INTERIM, METHODS OF AASHTO, ASTM, AWWA, WORCESTER COUNTY, OR OTHERS WHICH ARE CURRENT AS OF THE DATE OF ADVERTISEMENT FOR BIDS. THESE TESTS WILL BE MADE AT THE EXPENSE OF THE OWNER, UNLESS OTHERWISE SPECIFIED.

- F) ACCEPTANCE TESTING BY THE OWNER AS DESCRIBED HERE AND ELSEWHERE IS NOT CONSIDERED AS A REPLACEMENT FOR CONTROL TESTING CONDUCTED BY THE CONTRACTOR OR MANUFACTURER PRODUCING MATERIALS FOR THE CONTRACTOR OR MANUFACTURER IS NOT PROVIDING ADEQUATE CONTROL TESTING FACILITIES ON HIS OWN BEHALF. THE ENGINEER MAY REFUSE TO CARRY OUT RESAMPLING AND TESTING OF MATERIALS WHICH HAVE BEEN SHOWN TO BE DEFECTIVE BY NORMAL SAMPLING AND TESTING ROUTINES. THE ENGINEER MAY ALSO REFUSE TO RESAMPLE AND TEST DEFECTIVE MATERIALS UNTIL AND UNLESS CORRECTIVE ACTION HAS BEEN TAKEN BY THE CONTRACTOR OR THE MANUFACTURER.

- G) ACCEPTANCE TESTING BY THE OWNER AS DESCRIBED HERE AND ELSEWHERE IS NOT CONSIDERED AS A REPLACEMENT FOR CONTROL TESTING CONDUCTED BY THE CONTRACTOR OR MANUFACTURER PRODUCING MATERIALS FOR THE CONTRACTOR OR MANUFACTURER IS NOT PROVIDING ADEQUATE CONTROL TESTING FACILITIES ON HIS OWN BEHALF. THE ENGINEER MAY REFUSE TO CARRY OUT RESAMPLING AND TESTING OF MATERIALS WHICH HAVE BEEN SHOWN TO BE DEFECTIVE BY NORMAL SAMPLING AND TESTING ROUTINES. THE ENGINEER MAY ALSO REFUSE TO RESAMPLE AND TEST DEFECTIVE MATERIALS UNTIL AND UNLESS CORRECTIVE ACTION HAS BEEN TAKEN BY THE CONTRACTOR OR THE MANUFACTURER.

4) CONTRACTOR'S RESPONSIBILITIES

- A) REVIEW ALL SUBMITTALS PRIOR TO SUBMISSION.
- B) DETERMINE AND VERIFY: FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, CATALOG NUMBERS AND SIMILAR DATA AND CONFORMANCE WITH DRAWINGS.
- C) COORDINATE EACH SUBMITTAL WITH REQUIREMENTS OF THE WORK AND OF THE DRAWINGS.
- D) CONTRACTOR'S RESPONSIBILITY FOR ERRORS AND OMISSIONS IN SUBMITTALS IS NOT RELIEVED BY ENGINEER'S REVIEW OF SUBMITTALS.
- E) CONTRACTOR'S RESPONSIBILITY FOR DEVIATIONS IN SUBMITTALS FROM REQUIREMENTS OF THE DRAWINGS IS NOT RELIEVED BY ENGINEER'S REVIEW OF SUBMITTALS, UNLESS ENGINEER GIVES WRITTEN ACCEPTANCE OF SPECIFIC DEVIATIONS.
- F) CONTRACTOR SHALL NOTIFY ENGINEER, IN WRITING AT TIME OF SUBMISSION, OF DEVIATIONS IN SUBMITTALS FROM REQUIREMENTS OF THESE DRAWINGS AND SPECIFICATIONS.
- G) CONTRACTOR SHALL BEGIN NO FABRICATION OR WORK WHICH REQUIRES SUBMITTALS UNTIL RETURN OF SUBMITTALS WITH ENGINEER'S STAMP AND INITIALS OR SIGNATURE INDICATING REVIEW AND APPROVAL.
- H) CONTRACTOR SHALL LEAVE AN 8" X 3" BLANK SPACE ON PAPER SUBMITTALS FOR THE ENGINEER'S STAMP.

5) RESUBMISSION REQUIREMENTS

- A) MAKE ANY CORRECTIONS OR CHANGES IN THE SUBMITTALS REQUIRED BY THE ENGINEER AND RESUBMIT UNTIL APPROVED.
- B) REVISIONS TO SHOP DRAWINGS AND PRODUCT DATA SHALL CONSIST OF REVISED, CLEAN COPIES, AS SPECIFIED FOR THE INITIAL SUBMITTAL. INDICATE ANY CHANGES MADE OTHER THAN THOSE REQUESTED BY THE ENGINEER.

6) ENGINEER'S DUTIES

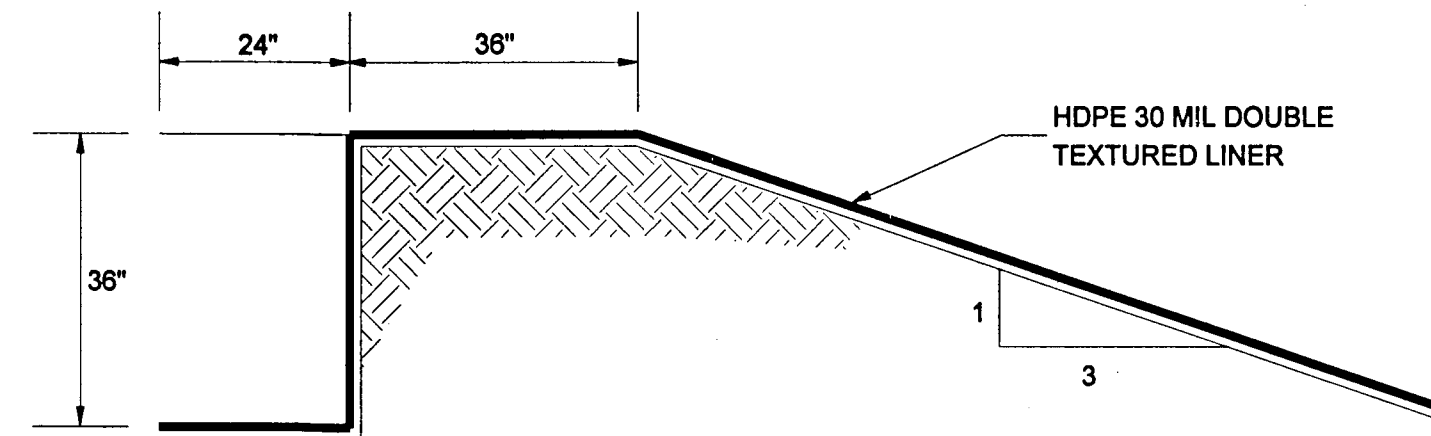
- A) REVIEW SUBMITTALS WITH REASONABLE PROMPTNESS AS DETERMINED BY THE PROJECT SCHEDULE AND RETURN TO THE CONTRACTOR WITHIN 14 DAYS OF RECEIPT AT THE ENGINEER'S OFFICE.
- B) ENGINEER WILL REVIEW FOR THE DESIGN CONCEPT OF THE PROJECT AND THE INFORMATION GIVEN ON THE DRAWINGS.
- C) REVIEW OF SEPARATE ITEM DOES NOT CONSTITUTE REVIEW OF AN ASSEMBLY IN WHICH ITEM FUNCTIONS.
- D) AFFIX STAMP AND INITIALS OR SIGNATURE CERTIFYING REVIEW OF SUBMITTAL.
- E) RETURN SUBMITTALS TO CONTRACTOR FOR DISTRIBUTION OR RESUBMITTAL.
- F) SHOP DRAWINGS REQUIRING RESUBMITTAL SHALL BE RETURNED TO THE CONTRACTOR WITHIN 14 DAYS OF RECEIPT OF RESUBMITTAL AT THE ENGINEER'S OFFICE. NO EXTENSION OF TIME OR ADJUSTMENT OF COST SHALL BE ALLOWED DUE TO REJECTION OF DEFICIENT OR INCORRECT SHOP DRAWINGS.
- G) THE ENGINEER WILL REVIEW AND STAMP THE SHOP DRAWINGS IN ONE OF THE FOLLOWING WAYS:

- 1) ACCEPTED AS SPECIFIED
- 2) ACCEPTED AS EQUAL TO SPECIFIED
- 3) ACCEPTED AS NOTED
- 4) REVISE AND RESUBMIT
- 5) REJECTED
- 6) INFORMATIONAL PURPOSES ONLY

- H) CORRECTIONS OR COMMENTS ON THE SHOP DRAWINGS DURING THE ENGINEER'S REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITHIN THE REQUIREMENTS OF THE DRAWINGS. THE OWNER OR ENGINEER WILL NOT BE RESPONSIBLE FOR ERRORS OR OMISSIONS ON ANY DRAWINGS OR INFORMATION FURNISHED BY THE CONTRACTOR, EVEN THOUGH DRAWINGS CONTAINING SUCH ERRORS ARE INADVERTENTLY APPROVED. THE ENGINEER'S REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN ON THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; AND IN PERFORMING THIS WORK IN A SAFE MANNER. IF THE SUBMITTAL DRAWINGS OR OTHER INFORMATION DEVIATE FROM THESE DRAWINGS, THE CONTRACTOR SHALL ADVISE THE ENGINEER OF THE DEVIATIONS, IN WRITING ACCOMPANYING THE SHOP DRAWINGS, INCLUDING THE REASONS FOR THE DEVIATIONS, AND SHALL REQUEST A DEVIATION FROM THESE DRAWINGS.

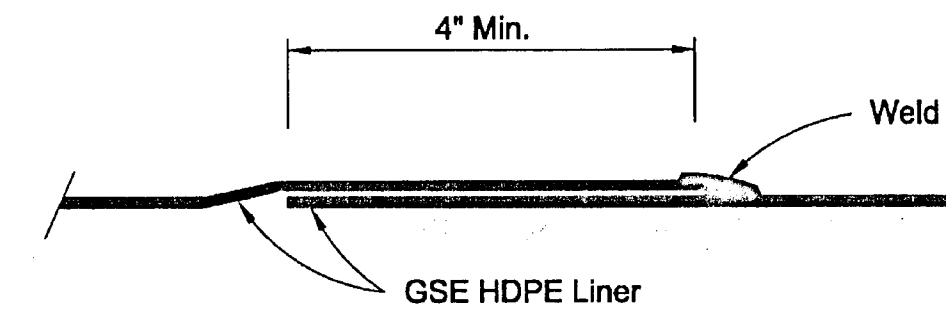
7) CUT SHEETS

- A) CUT SHEETS SHALL BE PREPARED BY THE CONTRACTOR'S LICENSED SURVEYOR.
- B) CUT SHEETS SHALL BE CHECKED BY THE CONTRACTOR FOR ACCURACY.
- C) CUT SHEETS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- D) NO CONSTRUCTION SHALL BE PERFORMED PRIOR TO THE ENGINEER'S REVIEW.



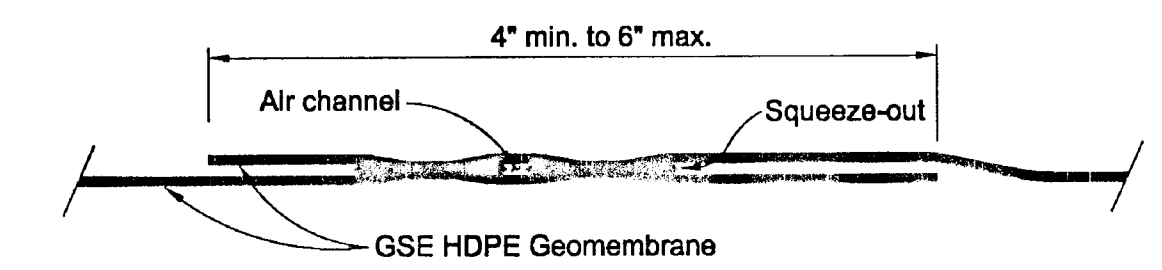
TYPICAL ANCHOR TRENCH (3:1 SLOPE)

Not to Scale



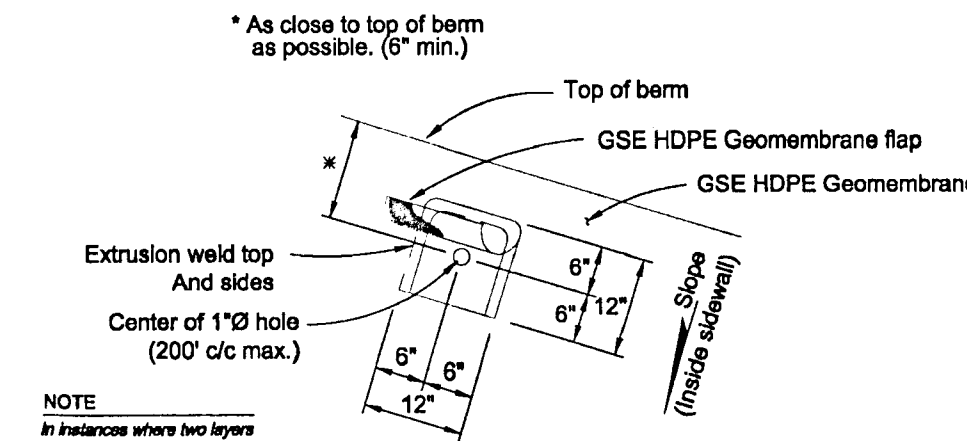
Typical Fillet Extrusion Weld

Not to scale



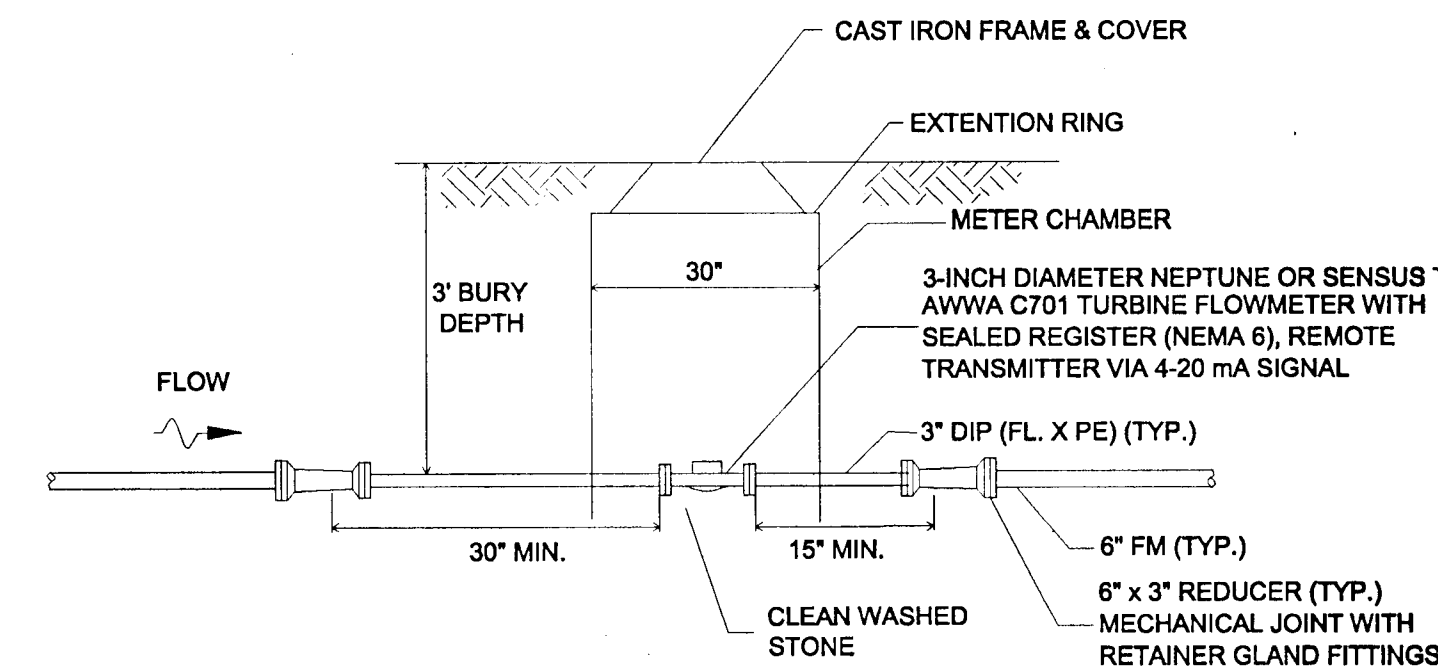
Typical Hot Wedge Double Track Fusion Weld

Not to scale



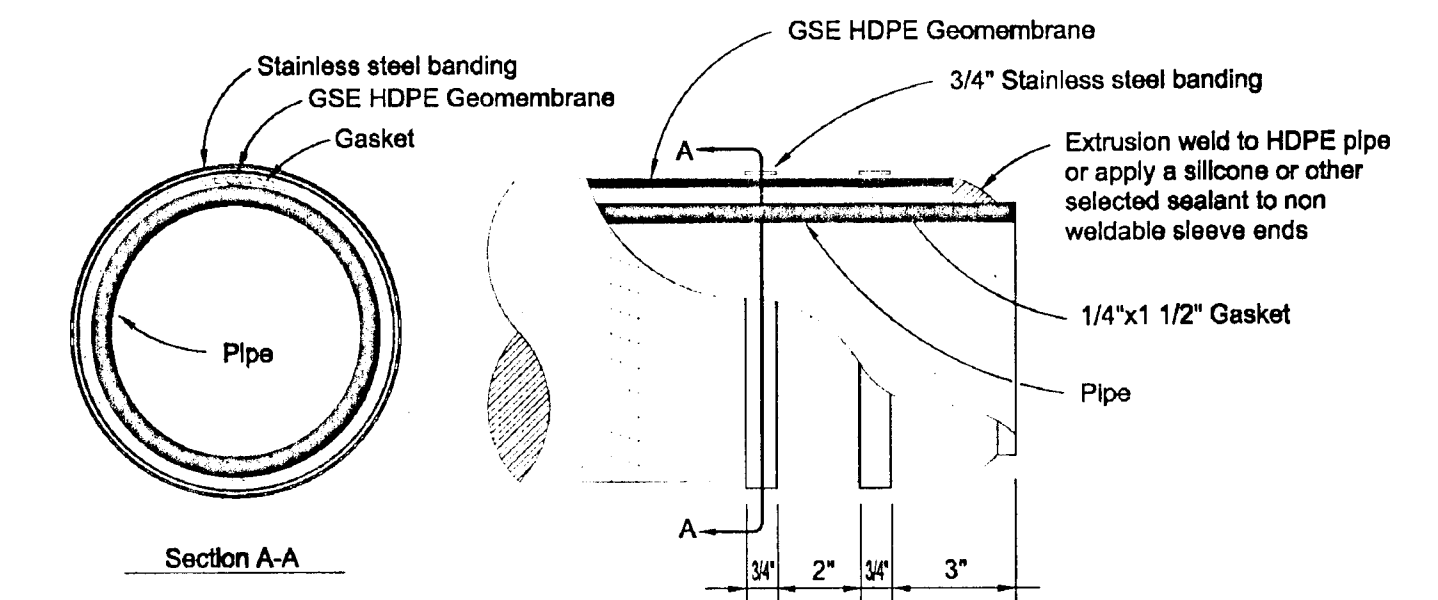
Vent Pocket Detail

Not to scale



METER CHAMBER DETAIL

NOT TO SCALE



Pipe Penetration Seal

(Vertical or horizontal) Not to scale

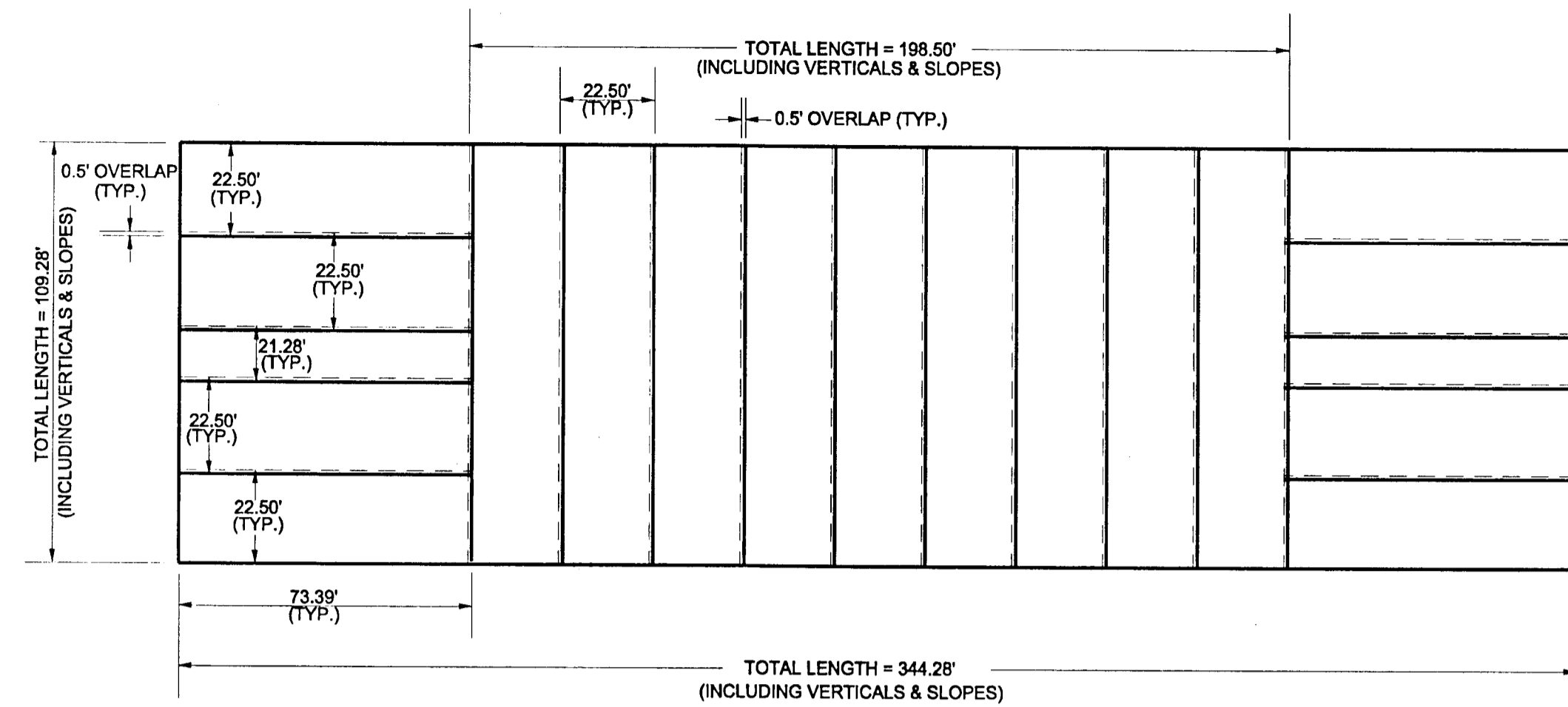
SUBMITTALS SCHEDULE:

SUBMIT TO THE ENGINEER, SHOP DRAWINGS, PRODUCT DATA AND CERTIFICATIONS FOR ITEMS LISTED IN THE FOLLOWING TABLE:

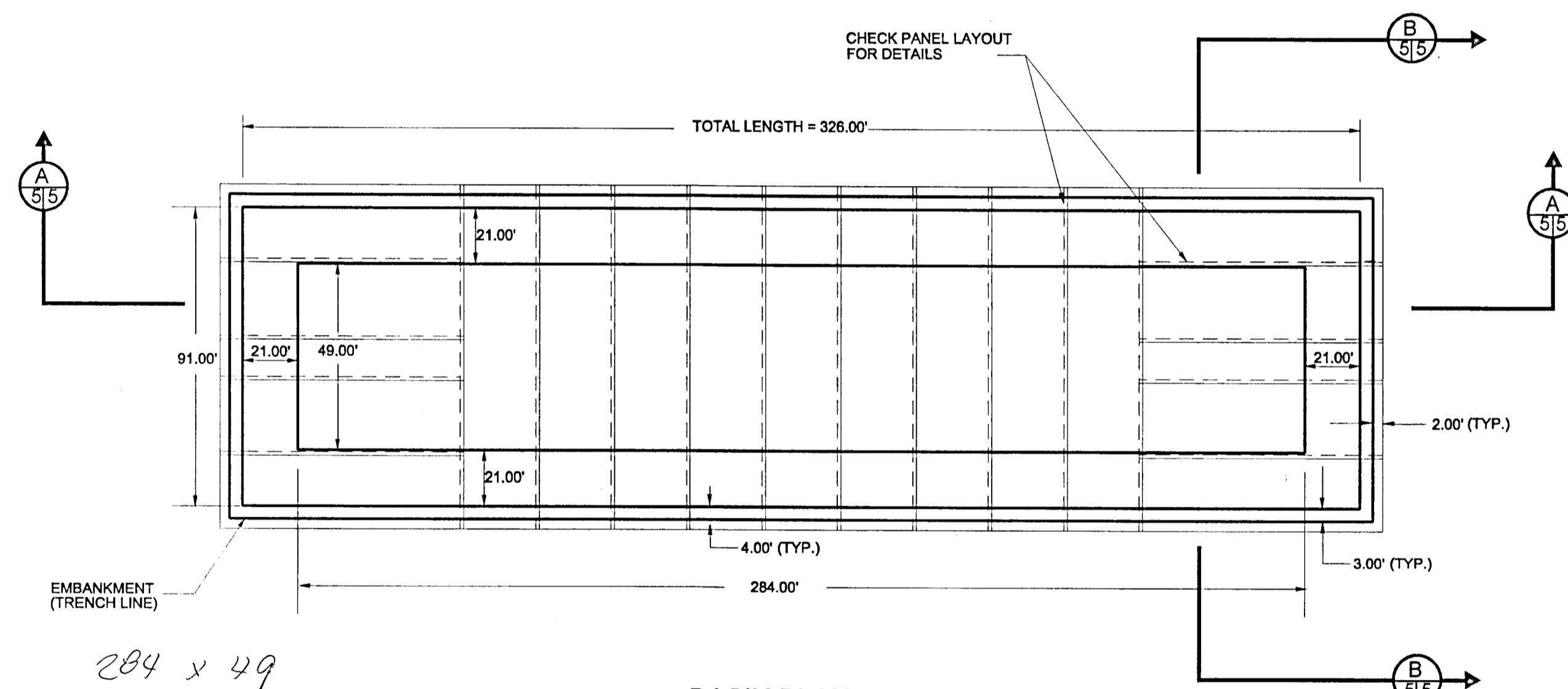
	SHOP DRAWINGS	CERTIFICATIONS	PRODUCT DATA
HDPE 30 MIL DOUBLE TEXTURED LINER	X	X	X
PVC SEWER PIPE & FITTINGS		X	X
HAND-HEEL OPERATED GATE VALVE	X	X	X
THRUST BLOCK	X	X	

AS-BUILT

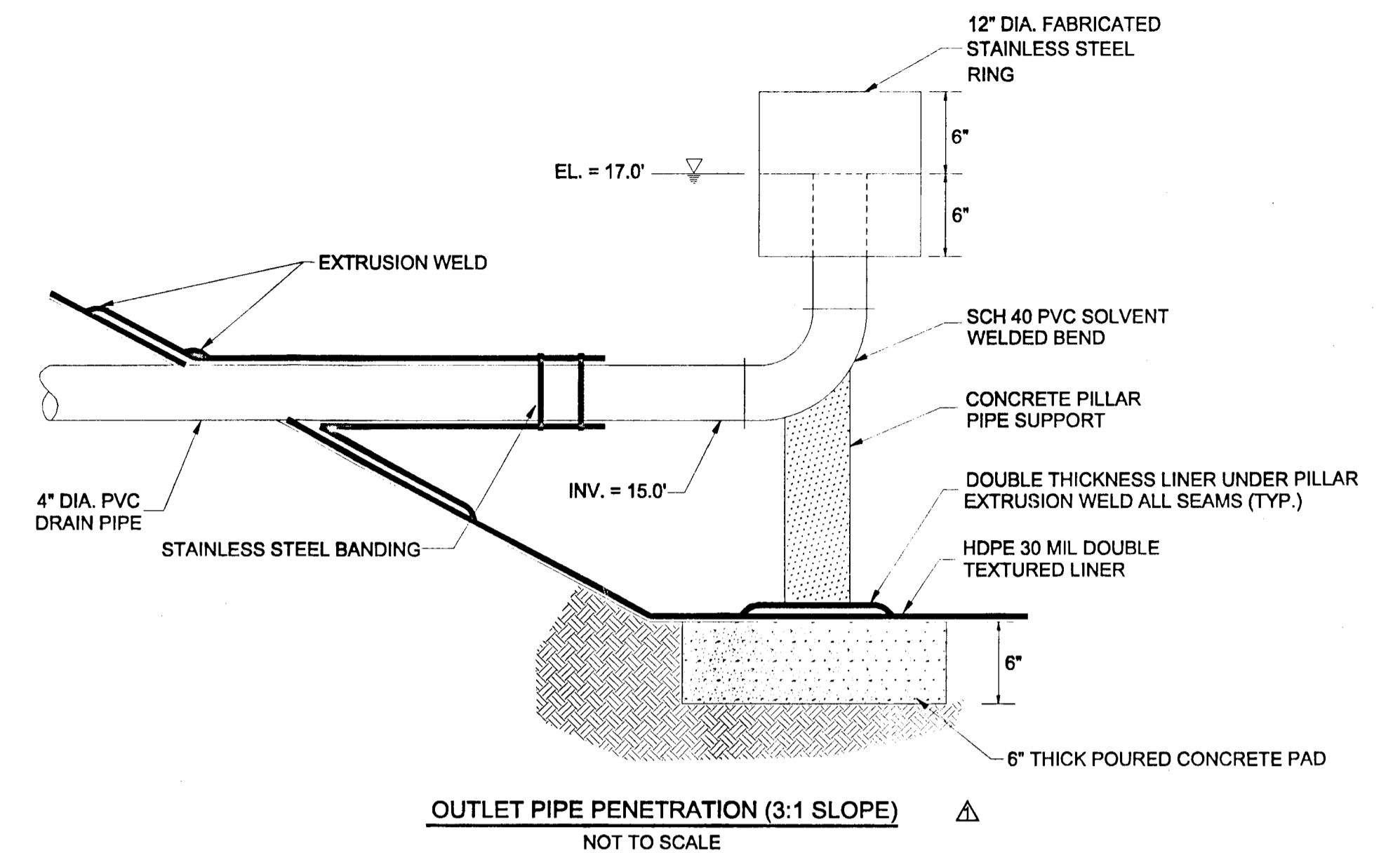
THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY WATER AND WASTEWATER SERVICES		DESIGNED BY: SK	DRAWN BY: MG	CHECKED BY: JWS3	DETAILS, SUBMITTAL NOTES AND SCHEDULE	
DIRECTOR WD. CO., WATER & WASTEWATER SERVICES		REVISIONS 1 04/10/07				MYSTIC HARBOUR WATER TREATMENT PLANT UPGRADES BACKWASH BASIN RELOCATION WORCESTER COUNTY DEPT. OF PUBLIC WORKS TENTH ELECTION DISTRICT BERLIN WORCESTER COUNTY MARYLAND J. W. SALM ENGINEERING, INC. P.O. BOX 129, 62 NORTH DUPONT HIGHWAY SELBYVILLE, DE 19975
THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS.		JOHN W. SALM, III STATE OF MARYLAND MARYLAND PROFESSIONAL ENGINEER LICENSE No. 19731			SCALE: AS SHOWN	
DIRECTOR WD. CO., DEPARTMENT OF PUBLIC WORKS		DATE: MAR. 2007			DRAWING No.: 109-01-104	SHEET No.: 4 of 5



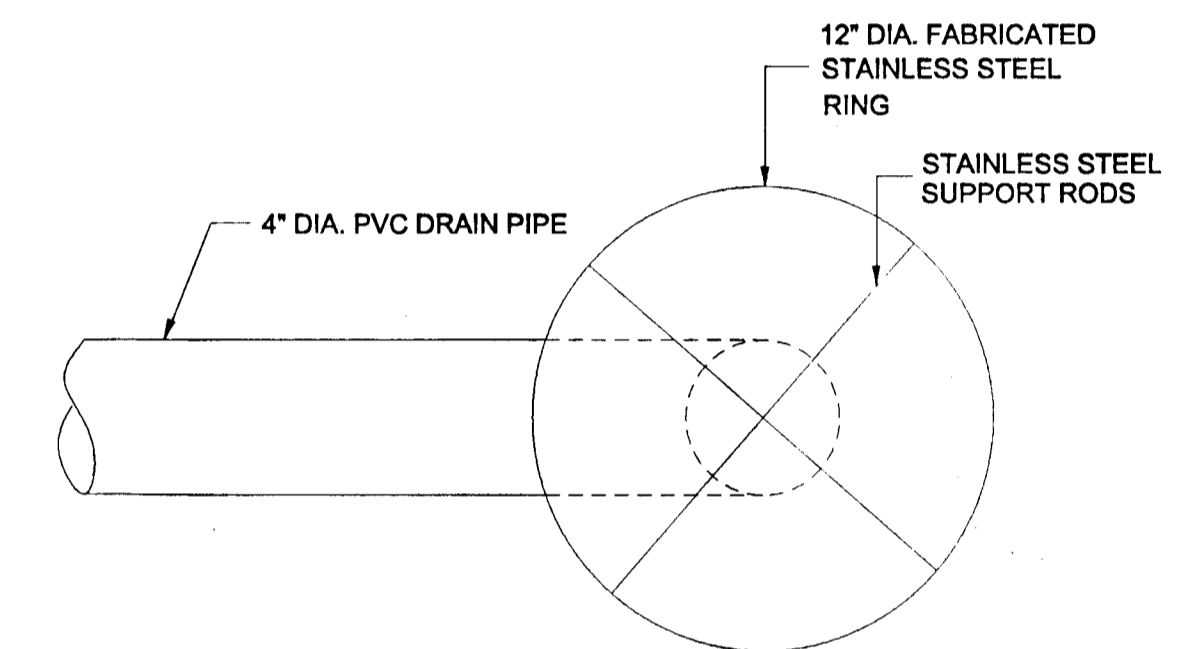
5' **PANEL LAYOUT**
NOT TO SCALE



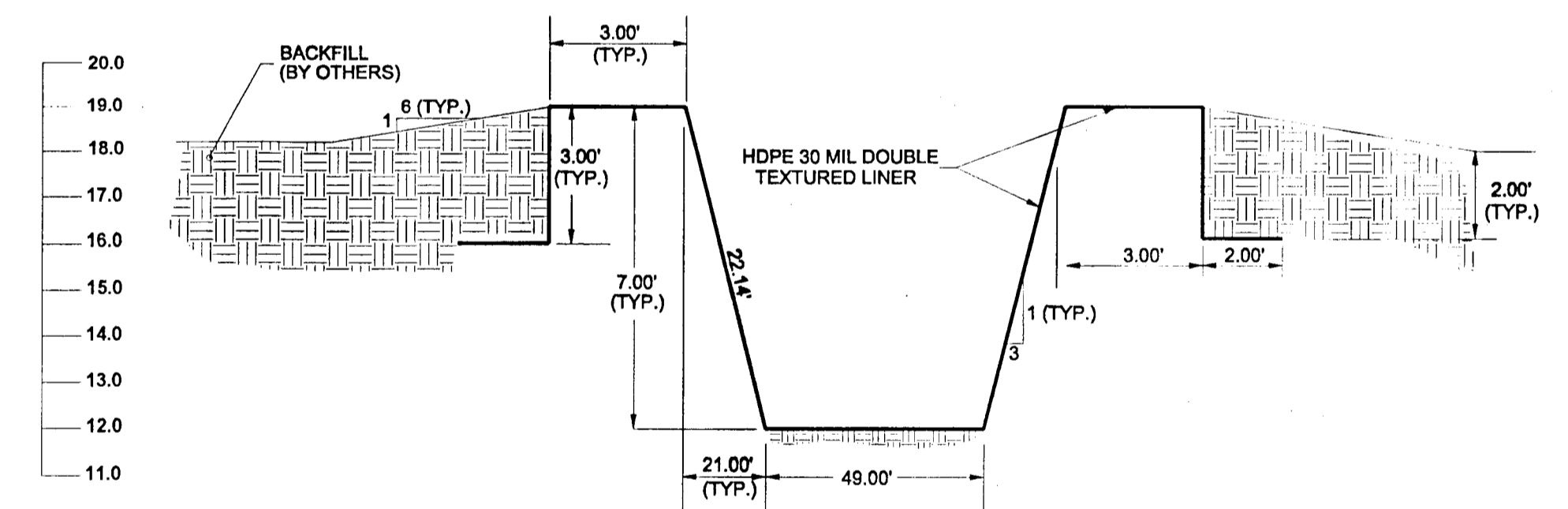
BASIN PLAN
NOT TO SCALE



OUTLET PIPE PENETRATION (3:1 SLOPE)
NOT TO SCALE



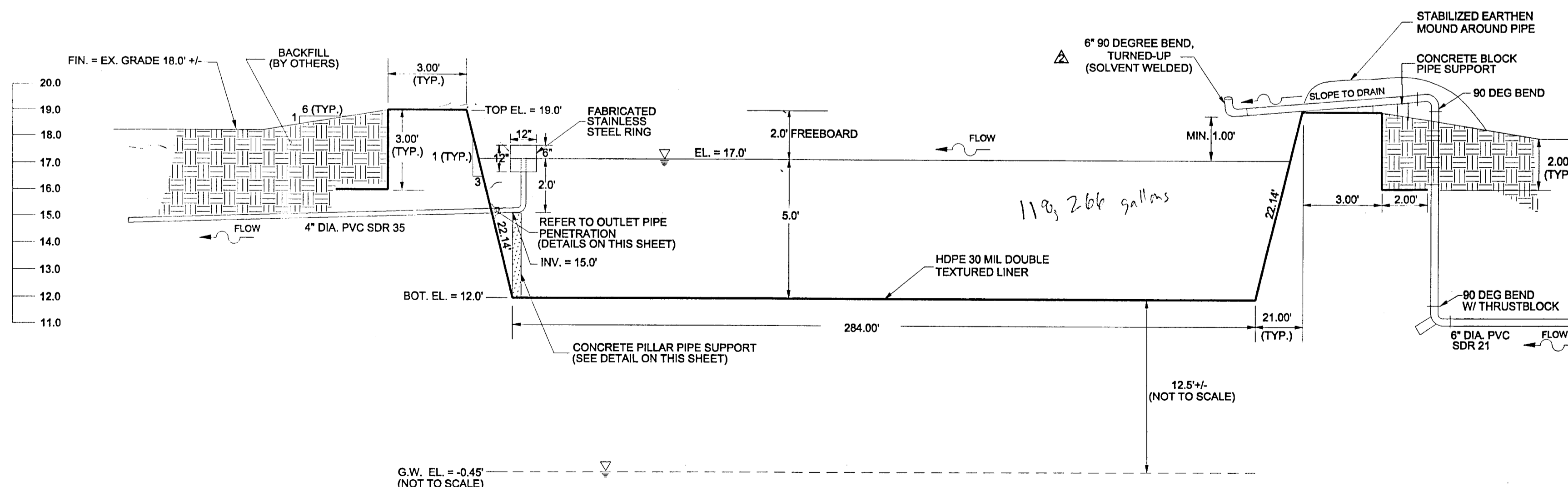
DEBRIS SHIELD DETAIL



SECTION B-B
NOT TO SCALE

NOTES:

- 1) LINER, FABRICATOR AND CONTRACTOR SHOULD VERIFY ALL THE DIMENSIONS IN THE FIELD.
- 2) LINER, FABRICATOR AND CONTRACTOR SHOULD VERIFY THAT SUFFICIENT OVERLAP IS PROVIDED BETWEEN THE PANELS.



SECTION A-A
NOT TO SCALE

AS-BUILT

THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY WATER AND WASTEWATER SERVICES		DESIGNED BY: SK	DRAWN BY: MG	CHECKED BY: JWS3	LINER PANEL LAYOUT AND DETAILS	
DIRECTOR WO. CO., WATER & WASTEWATER SERVICES		JOHN W. SALM, III			REVISIONS	MYSTIC HARBOUR WATER TREATMENT PLANT UPGRADES BACKWASH BASIN RELOCATION WORCESTER COUNTY DEPT. OF PUBLIC WORKS
THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS.		STATE OF MARYLAND PROFESSIONAL ENGINEER LICENSE No.: 19731			04/10/07 06/06/07	TENTH ELECTION DISTRICT BERLIN WORCESTER COUNTY MARYLAND
DIRECTOR WO. CO., DEPARTMENT OF PUBLIC WORKS		SCALE: AS SHOWN			DATE: MAR. 2007	DRAWING No.: 109-01-105 SHEET No.: 5 of 5