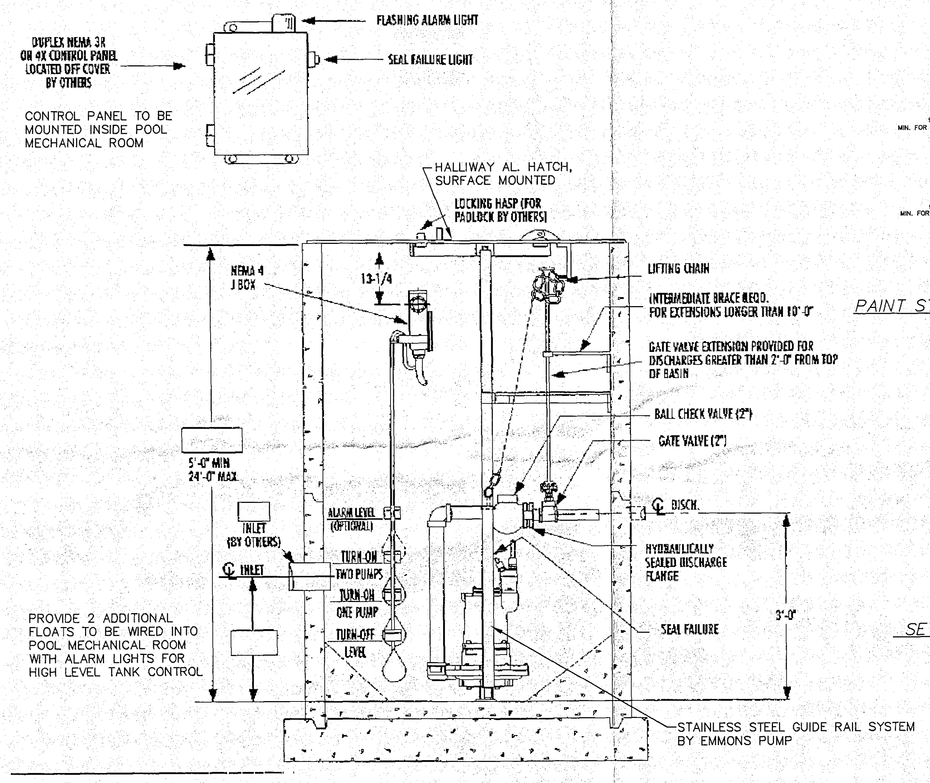


ALL FITTINGS INSIDE TANK TO BE STAINLESS

PUMP STATION DETAIL

NO SCALE

PUMP TO BE INSTALLED IN A 3000 GAL. FORT MILLER HEAVY DUTY SEPTIC TANK

PUMPS TO BE DUPLEX HYDROMATIC SPGH/62HX750 (7.5 HP)

CONTRACTOR TO VERIFY CONDUIT NEEDS WITH PUMP/CONTROL SUPPLIER REGARDING WIRE SIZE BASED ON THE DISTANCE FROM PUMP TO PANEL, NUMBER OF CONDUITS AND ELECTRICAL HOOKUP NEEDS.

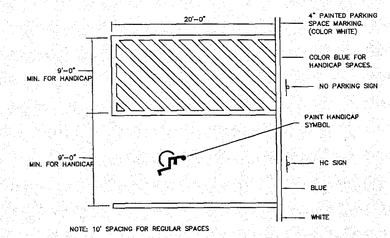
HOUR METER –ALL GRINDER PUMPS TO BE EQUIPPED WITH AN HOUR METER TO RECORD ALL PUMP USAGE.

GRINDER PUMP POWER AND ALARM LEADS –CIRCUIT TO BE RUN IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODES. THE ELECTRICAL CONTRACTOR SHALL INSTALL A NEW 3R (WATERTIGHT ENCLOSURE) EQUIPPED WITH DISCONNECT SWITCH AND LOCK OUT INSIDE BUILDING. A WARNING LIGHT AND BELL SHALL BE PLACED INSIDE THE BUILDING AND WIRED TO A SIGNAL ALARM IN CASE OF PUMP FAILURE OR POWER FAILURE.

PUMP –SEAL FAILURE AND ALARM LIGHT TO BE PROVIDED.

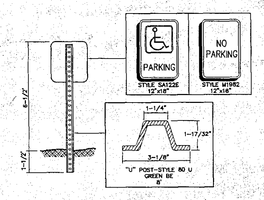
TESTING & INSPECTION –DISCHARGE PIPING TO BE PRESSURE TESTED TO 90 PSI, PER APPLICABLE SECTION AND C600-82 BY THE CONTRACTOR. ALL WORK TO BE CERTIFIED TO THE TOWN BY A PROFESSIONAL ENGINEER.

THE DESIGN ENGINEER SHALL WITNESS THE START UP TEST TO DETERMINE THE SYSTEM INSTALLATION WAS IN CONFORMANCE WITH REQUIREMENTS. THE PUMP OPERATION AND ALARM SYSTEM WILL BE FIELD TESTED.



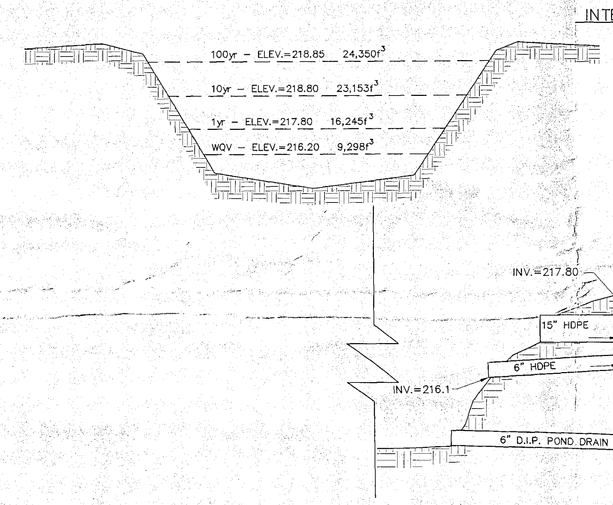
PAINT STRIPING DETAIL & HANDICAP MARKING

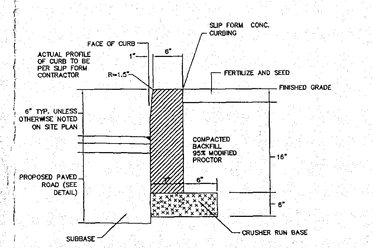
NO SCALE



SETON POST & HANDICAP SIGN DETAIL

NO SCALE

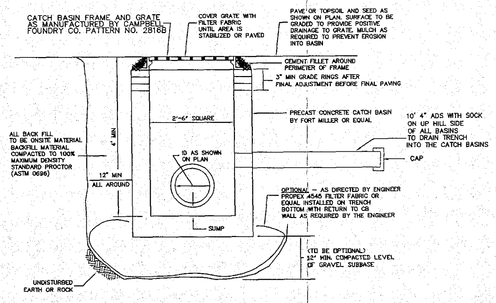




CONCRETE CURB DETAIL

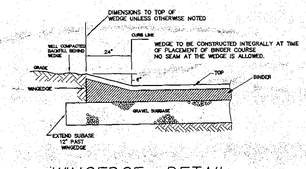
NO SCALE

CAST IN PLACE OR SLIP FORM REQUIRED
PRECAST NOT ALLOWED WITHOUT ENGINEERS APPROVAL



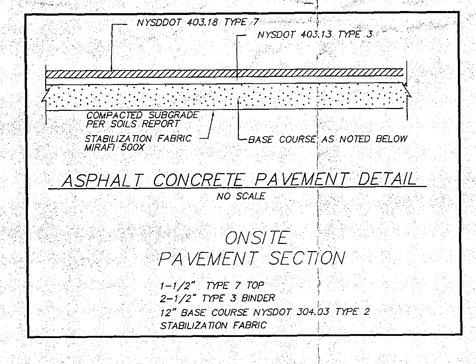
2'-6" SQUARE PRECAST REINFORCED CONCRETE CATCH BASIN

BASINS TO BE KNOCKED OUT TO ACCOMIDATE FUTURE CONNECTIONS
NO SCALE



WINGEDGE DETAIL

NO SCALE

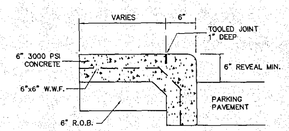


ASPHALT CONCRETE PAVEMENT DETAIL

NO SCALE

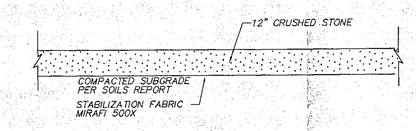
ONSITE PAVEMENT SECTION

1-1/2" TYPE 7 TOP
2-1/2" TYPE 3 BINDER
12" BASE COURSE NYSDOT 304.03 TYPE 2
STABILIZATION FABRIC



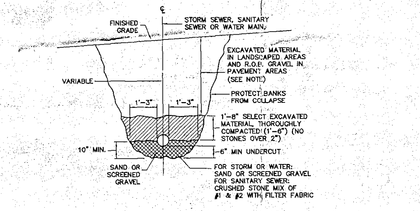
INTEGRAL SIDEWALK & CURB DETAIL

NO SCALE



EMERGENCY DRIVEWAY DETAIL

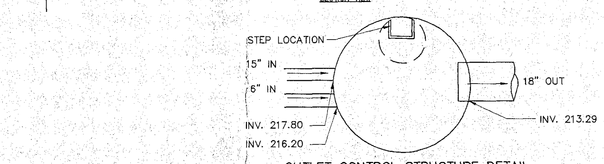
NO SCALE



TYPICAL TRENCH SECTION FOR STORM SEWER & WATER

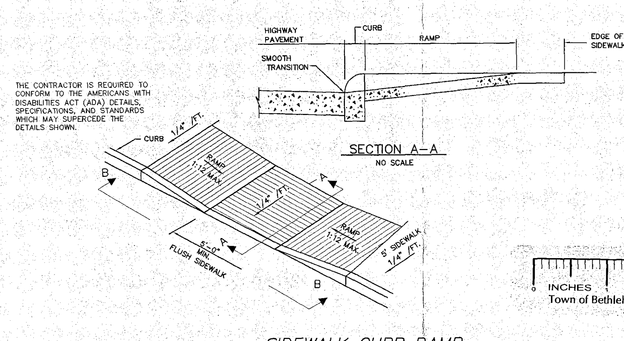
NO SCALE

NOTE:
DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES, ORGANIC MATTER OR OTHER UNSTABLE MATERIALS SHALL NOT BE USED FOR BACKFILL.



OUTLET CONTROL STRUCTURE DETAIL

NO SCALE



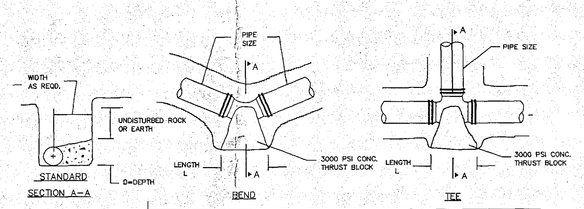
SECTION A–A

NO SCALE

SIDEWALK CURB RAMP

NO SCALE

SEE SIDEWALK DETAIL FOR SITE SPECIFIC SLOPES



REQUIRED BEARING AREAS & DIMENSIONS

FOR CONCRETE THRUST BLOCKS

TEE(See Note 3)	90°(1/4)BEND		45°(1/8)BEND		22-1/2°(1/16)BEND		11-1/4°(1/32)BEND	
Dimen. D x L	AREA Sq.Ft.	Dimen. D x L	AREA Sq.Ft.	Dimen. D x L	AREA Sq.Ft.	Dimen. D x L	AREA Sq.Ft.	Dimen. D x L
1.0 x 1.5	2.0	1.0 x 2.0	1.1	1.0 x 1.5	0.6	0.5 x 1.5	0.3	0.5 x 1.0
1.5 x 2.0	4.5	2.0 x 2.5	2.4	1.5 x 2.0	1.2	1.0 x 1.5	0.6	1.5 x 1.5
2.0 x 3.0	8.0	2.0 x 4.0	4.3	2.0 x 2.5	2.2	1.5 x 1.5		1.0 x 1.5
3.0 x 3.5	18.0	4.0 x 4.5	9.7	2.5 x 4.0	5.0	3.0 x 3.5	2.5	1.5 x 2.0

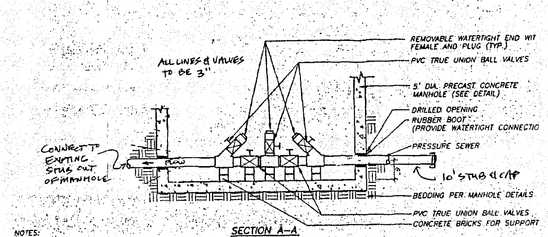
THRUST BLOCK DETAILS

NO SCALE

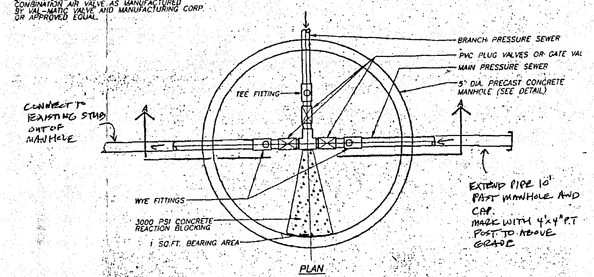
NOTES:
1.) CONCRETE NOT TO OVERLAP ANY JOINT.
2.) CONCRETE TO BE PLACED SO AS NOT TO INTERFERE WITH REMOVING OR INSTALLING ANY OF THE JOINTING HARDWARE.
3.) FOR REDUCERS USE MECHANICAL JOINT FITTINGS WITH RETAINER GLANDS.

SANITARY PRESSURE SEWER TO SERVICE LATERAL CONNECTION

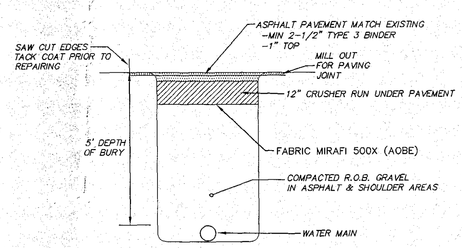
NOT TO SCALE



NOTES:
1. ALL FITTINGS AND VALVES TO MATCH PRESSURE SEWER MAIN SIZE.
2. AIR VALVES SHALL BE VAL-MATIC SERIES CONFIGURATION AIR VALVE AS MANUFACTURED BY VAL-MATIC VALVE AND MANUFACTURING CORP. OR APPROVED EQUAL.

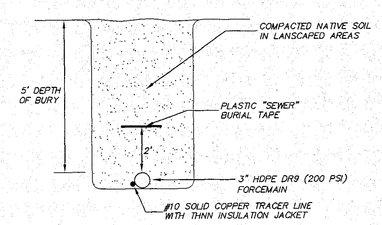


JUNCTION IN-LINE CLEAN-OUT MANHOLE FOR PRESSURE SEWERS



WATER LAYING DETAIL UNDER PAVEMENT

NO SCALE



SEWER LAYING DETAIL OUTSIDE PAVEMENT AREA

NO SCALE

(FORCEMAIN)

INCHES
Town of Bethlehem, NY

GENERAL NOTES:

THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER.

NO SLOPE ON BOUNDARY OF ADJACENT PROPERTY SHALL EXCEED 3 HORIZONTAL TO 1 VERTICAL.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS, AND COORDINATE WORK WITH ALL OTHER CONTRACTOR'S ON THE SITE.

THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.

THE CONTRACTOR SHALL RESTORE LAWNS, DRIVEWAYS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISTURBED AS DETERMINED BY THE ENGINEER. ANY DAMAGED TREES, SHRUBS AND/OR HEDGES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.

CONTRACTOR TO TOPSOIL & SEED ALL DISTURBED AREAS.

THE CONTRACTOR WILL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS AVOIDED BY THE ENGINEER OR OWNER SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.

CONTRACTOR TO GRADE ALL AREAS ON THE SITE TO PROVIDE POSITIVE DRAINAGE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED UP AS-BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND HIS REPRESENTATIVES AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADMISSIONS TO THE SATISFACTION OF THE OWNER AND HIS REPRESENTATIVES BEFORE UTILITIES WILL BE ACCEPTED.

THE CONTRACTOR SHALL PROVIDE TEMPORARY SAFETY FENCING AROUND ALL EXCAVATIONS.

THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL PUSH AND RECEIVING PITS SHALL BE BARRICADED AND PROTECTED IN ACCORDANCE WITH MUTCD. PROTECTION SHALL BE PROVIDED FOR VEHICULAR AND PEDESTRIAN TRAFFIC.

THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA. EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPE LINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE DIFFERENT FROM THAT SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL, OR BLAST, CALL U.F.P.O. 1-800-962-7962 TOLL FREE.

ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF NEW YORK STATE INDUSTRIAL CODE RULE 23 AND OSHA REGULATIONS FOR CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF THE WORK.

MAINTAIN FLOW FOR ALL EXISTING UTILITIES.

ALL NEW MANHOLES AND VALVE BOXES CONSTRUCTED WITHIN PAVED AREAS SHALL HAVE THE TOPS SET FLUSH WITH THE EXISTING PAVEMENT GRADE. IN LANDSCAPED AREAS, ALL FRAMES SHALL BE 0.1' ABOVE GRADE.

BEFORE CONSTRUCTING LINES TO CONNECT TO EXISTING UTILITIES, VERIFY EXISTING UTILITY INVERTS AND NOTIFY ENGINEER IF ANY VARIATION FROM THE PLANS IS REQUIRED.

EXPLORATORY EXCAVATIONS SHALL BE PERFORMED AS NEEDED BY THE CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO WORK IN CONGESTED UTILITY AREAS.

COORDINATE LOCATION OF UTILITY CONNECTIONS WITH THE ARCHITECTURAL PLANS.
THE CONTRACT LIMIT LINE FOR UTILITIES IS 5' OFF THE BUILDING LINE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING EXISTING PUBLIC HIGHWAYS AND ADJACENT LANDS FREE FROM DEBRIS, SOIL, AND OTHER MATTER WHICH MAY ACCUMULATE DUE TO CONSTRUCTION RELATED TO THE SITE.

STORM SEWER

ALL STORM SEWER LINES SHALL BE HDPE N-12 WITH INTEGRAL GASKETED BELL & SPIGOT (SILT TIGHT).

SUMP PUMPS AND/OR FOOTING DRAINS SHALL BE CONNECTED TO PROPOSED CATCH BASINS.

WATER SUPPLY

ALL WATER LINES SHALL BE 5 FEET DEEP FROM FINISHED GRADE TO THE TOP OF THE PIPE AS A MINIMUM. THE CONTRACTOR SHALL CONSTRUCT THE WATER LINE SO THAT ALL CROSSING WITH OTHER UTILITIES HAVE THE REQUIRED CLEARANCES. INVERTS AT THE WATER AND SEWER CROSSINGS ARE NOTED ON THE PLANS.

WATER LINES SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SEWER. WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER.

THE CONTRACTOR IS DIRECTED TO COMPLY WITH BETHLEHEM WATER AUTHORITY STANDARD SPECIFICATIONS, AND REQUIREMENTS OF THE N.Y.S. DEPARTMENT OF HEALTH FOR INSTALLATION OF WATER MAINS. THE BETHLEHEM WATER AUTHORITY AND THE ENGINEER ARE TO BE NOTIFIED AT LEAST 48 HOURS PRIOR TO UNDERTAKING WORK ON WATER FACILITIES.

WATER MAINS ARE TO BE INSPECTED AND DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C601 OR OTHER METHOD ACCEPTABLE TO THE BETHLEHEM WATER AUTHORITY.

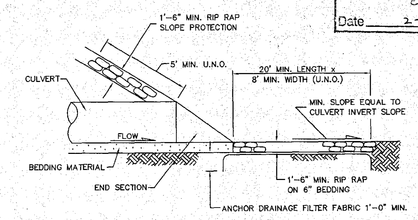
WATER MAINS AND APPURTENANCES ARE TO BE INSPECTED AND DISINFECTED IN ACCORDANCE WITH AWWA STANDARD FOR DISINFECTING WATER MAINS, C-651-92, WITH THE EXCEPTION OF SECTION 5.1, "TABLET METHOD".

PRESSURE TESTING PROCEDURES FOR THE WATERMAINS WILL COMPLY WITH THE TOWN OF BETHLEHEM WATER DISTRICT, AND WITH AWWA STANDARD C-600, LATEST EDITION.

CHLORINATED WATER GENERATED FROM THE WATERMAIN DISINFECTION PROCESS WILL BE DISPOSED OF IN A MANNER ACCEPTABLE TO THE TOWN OF BETHLEHEM WATER DISTRICT AND NYDEC.

WATER TESTING NOTE

THE RELOCATED WATER MAIN SHALL BE TESTED TO 150 P.S.I. INSTALL TEST CORP FOR PRESSURE TEST AND FOR CHLORINATION AT THE VALVE OFF THE MAIN LINE. REMOVE TEST CORP AND PLUG AFTER TESTING IS COMPLETED. THE WATERLINE SHALL BE TESTED AT 150psi FOR PRESSURE AND LEAKAGE. TESTING SHALL BE PERFORMED UTILIZING THE EXISTING VALVE AT THE TEE AT THE EAST END OF THE SITE. BLOW OFF SHALL BE THE EXISTING HYDRANT AT THE WEST END OF THE SITE.



TYPICAL CULVERT OUTFALL RIP RAP DETAIL

NO SCALE

FLANNING BOARD
TOWN OF BETHLEHEM
ALBANY COUNTY, NEW YORK
This Site Plan Approved.
Title Chairman
Date 2-10-06

NO.	REVISION	BY	DATE
10.	TOWN COMMENTS	TCA	1/26/06
9.	TOWN COMMENTS	TCA	1/23/06
8.	LANDSCAPE/SIGN REVISION	TCA	1/19/06
7.	TOWN REVIEW	TCA	1/5/06
6.	TOWN REVIEW	TCA	12/12/05
5.	SITE PLAN	TCA	10/07/05
4.	GENERAL REVISION	TCA	10/07/05
3.	FORCEMAIN/ GENERAL REVISION	TCA	10/6/05
2.	SIDEWALK REVISION	TCA	10/6/05
1.	GENERAL REVISION	TCA	10/5/05

ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER IS ILLEGAL.

STATE OF NEW YORK · THOMAS C. ANDRESS · 61836 · LICENSED PROFESSIONAL ENGINEER

THOMAS C. ANDRESS, P.E.
N.Y.S. LICENSE NO. 61836

CONSTRUCTION DETAILS
900 DELAWARE AVENUE
CAPITAL DISTRICT YMCA
BETHLEHEM BRANCH

TOWN OF BETHLEHEM | COUNTY OF ALBANY
STATE OF NEW YORK

ABD ENGINEERS & SURVEYORS
411 Union Street Schenectady, N.Y. 12305
518-377-0315 Fax.518-377-0379

DATE:	SCALE:	DWG.	SHEET OF
APRIL 2005	AS SHOWN	2184-PHASE1 REGRADE	4 4

Planning Approval
PrintOnFile_SPA106A2_Plans