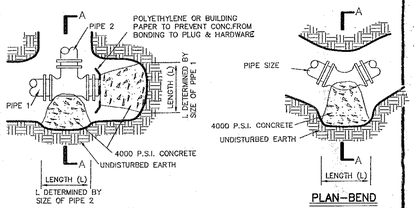
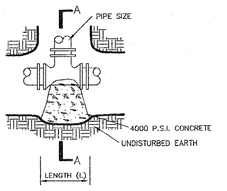
Planning Approval
10-00100001_SPA172

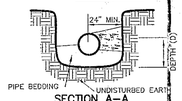


PLAN–PLUG & TEE

PLAN–BEND



PLAN–TEE



SECTION A–A

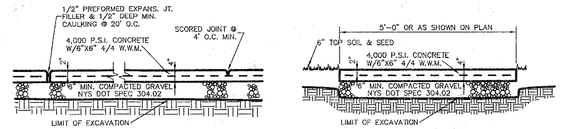
REQUIRED DEPTH & LENGTH OF THRUST BLOCK

PIPE SIZE (INCHES)		6	8
AREA (SQ. FEET) X LENGTH (L)	TEE*	1.5 X 2.5	2.0 X 3.0
	90° BEND	2.0 X 2.5	2.0 X 4.0
	45° BEND	1.5 X 2.0	2.0 X 2.5
	22–1/2° BEND	1.0 X 1.5	1.5 X 1.5
	11–1/4° BEND	0.5 X 1.5	1.0 X 1.5

* VALUES FOR TEE ALSO APPLY TO END PLUGS, CAPS AND TAPPING SLEEVES

NOTE:
PIPE AND APPURTENANCES SHALL BE POLYWRAPPED

THRUST BLOCK DETAILS
NOT TO SCALE

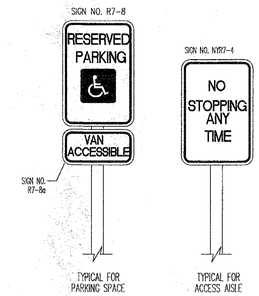


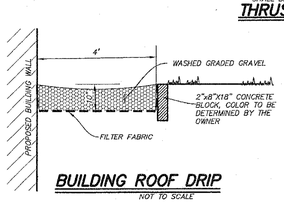
LONGITUDINAL SECTION

SEE GEOTECH. REPORT FOR ADDITIONAL FOR ADDITIONAL INFORMATION REGARDING BASE

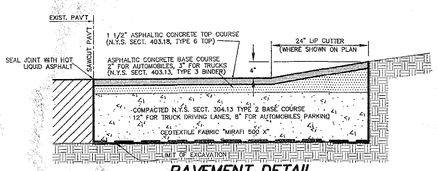
CROSS SECTION

CONCRETE WALK DETAIL
NOT TO SCALE

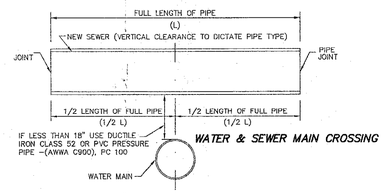




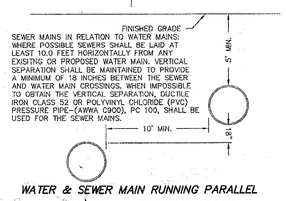
BUILDING ROOF DRIP
NOT TO SCALE



PAVEMENT DETAIL
NOT TO SCALE

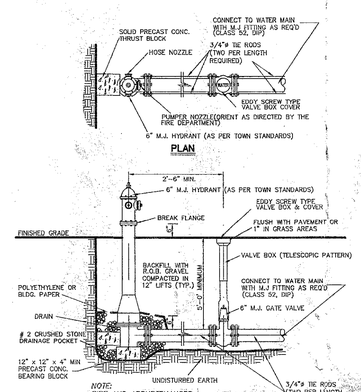


WATER & SEWER MAIN CROSSING



WATER & SEWER MAIN RUNNING PARALLEL

WATER & SEWER MAIN RELATION DETAIL
NOT TO SCALE



NOTE:
PIPE AND APPURTENANCES SHALL BE POLYWRAPPED

TYPICAL HYDRANT DETAIL
NOT TO SCALE

SITE PLAN GENERAL NOTES

1. ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, STANDARDS, ORDINANCES, RULES AND REGULATIONS.

2. EXISTING UTILITY INFORMATION SHOWN HEREON WAS OBTAINED FROM FIELD LOCATION WHERE POSSIBLE AND FROM RECORD DATA. THE LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. ACTUAL LOCATION SHALL BE VERIFIED BY THE CONTRACTOR. CONTACT DIGSAFE (1–800–962–7962) AND MUNICIPAL AGENCIES HAVING JURISDICTION 72 HOURS PRIOR TO ANY EXCAVATING AND/OR CONSTRUCTION TO HAVE UTILITIES MARKED ON SITE.

3. CONSTRUCTION OF STORM SEWERS MUST BEGIN AT ITS POINT OF CONNECTION TO THE EXISTING SEWER OR AT THE LOWEST POINT IN THE SYSTEM. GRATES, INVERTS, CLEARANCES AND LOCATION AT CROSSINGS MUST BE VERIFIED PRIOR TO THE BEGINNING OF CONSTRUCTION. THE ENGINEER MUST BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF ANY INSTALLATION SO THAT HE WILL BE ABLE TO PROVIDE SUPERVISION AS REQUIRED. THE CONTRACTOR MUST KEEP A RECORD OF ALL UNDERGROUND UTILITIES INSTALLED OR ENCOUNTERED SO THE ENGINEER WOULD BE ABLE TO USE THESE RECORDS FOR THE PREPARATION OF RECORD DRAWINGS AS REQUIRED BY THE LOCAL MUNICIPALITY.

4. ALL STORM SEWERS AND APPURTENANCES TO BE CONSTRUCTED IN COMPLIANCE WITH THE LOCAL MUNICIPALITY'S CODES AND REGULATIONS GOVERNING THE INSTALLATION OF SUCH UTILITIES.

5. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO EXAMINE ANY WORK DONE ON THIS PROJECT AT ANY TIME TO DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT, AS INTENDED AND INTERPRETED BY THE ARCHITECT/ENGINEER.

6. MISCELLANEOUS WORK NOT SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS SUCH AS PATCHING, BLOCKING, TRIMMING, ETC. SHALL BE PERFORMED AS REQUIRED TO MAKE THE WORK COMPLETE.

7. ALL DISTURBED AREA TO RECEIVE TOPSOIL AND SEED. EXCEPT AS OTHERWISE NOTED.

8. THE CONTRACTOR SHALL:

A. VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
B. EXAMINE THE SITE AND INCLUDE IN HIS WORK THE EFFECT OF ALL EXISTING CONDITIONS ON THE WORK.
C. PROVIDE AND INSTALL ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH RECOGNIZED GOOD STANDARD PRACTICE.
D. COMMENCE WORK IMMEDIATELY UPON AWARDING OF THE CONTRACT AND PROCEED DILIGENTLY AND CONTINUALLY TO COMPLETION OF ALL WORK.
E. PROVIDE CERTIFICATE OF INSURANCE ACCEPTABLE TO THE OWNER PRIOR TO COMMENCEMENT OF THE WORK.
F. HOLD THE OWNER HARMLESS AGAINST ANY AND ALL CLAIMS ARISING FROM WORK DONE BY THE CONTRACTOR ON THE SITE.

9. ALL BACKFILL USED IN TRENCHES EXCAVATED IN EXISTING ROADWAYS SHALL BE PLACED IN MAXIMUM SIX (6) INCH LIFTS AND COMPACTED BY MEANS OF A MECHANICAL COMPACTOR BETWEEN LIFTS.

10. WHEN BACKFILLING AROUND PROPOSED OR EXISTING STRUCTURES, MATERIAL SHALL BE PLACED IN MAXIMUM SIX (6) INCH LIFTS AND COMPACTED BY MEANS OF A COMPACTOR BETWEEN LIFTS.

11. SEWER MAINS IN RELATION TO WATER MAINS: WHERE POSSIBLE SEWERS SHALL BE LAID AT LEAST 10.0 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. VERTICAL SEPARATION SHALL BE MAINTAINED TO PROVIDE A MINIMUM OF EIGHTEEN (18) INCHES BETWEEN THE SEWER AND WATER MAIN CROSSINGS. WHEN IMPOSSIBLE TO OBTAIN THE VERTICAL SEPARATION, DUCTILE IRON CLASS 52 OR POLYVINYL CHLORIDE (pvc) CI 160, SDR 26 PIPE SHALL BE USED FOR THE SEWER MAINS.

12. PROVIDE EROSION CONTROL MEASURES TO PREVENT EROSION OR DISPLACEMENT OF SOILS AND DISCHARGE OF SOIL BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS. THIS WILL INCLUDE BUT NOT LIMITED TO HAY BALES, SILTATION FENCES AND OTHER ACCEPTABLE METHODS OF EROSION CONTROL. THE INTENT OF THESE MEASURES IS TO INSURE THE PREVENTION OF SILTATION OF WATER COURSES DOWN STREAM FROM THIS PROJECT IN COMPLIANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION "GENERAL PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM CONSTRUCTION ACTIVITIES".

13. ALL VEHICLES HAULING MATERIAL SHALL BE EQUIPPED WITH CANVAS COVERS TO PREVENT DUST AND LOOSE MATERIAL FROM EXISTING THE VEHICLE.

14. THE CONTRACTOR IS RESPONSIBLE FOR THE IMPLEMENTATION AND CONFORMANCE TO THE "NEW YORK GUIDELINES FOR URBAN EROSION & SEDIMENT CONTROL" AS PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE. THE CONTRACTOR IS RESPONSIBLE FOR INFORMING ALL CONSTRUCTION WORKERS INVOLVED IN THE SITE DEVELOPMENT OF THE IMPORTANCE AND ELEMENTS OF THE PLAN.

15. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED PROMPTLY TO MINIMIZE EROSION POTENTIAL.

16. ALL EXISTING DRAINAGE MUST BE MAINTAINED, EXCEPT WHERE IT IS SHOWN TO BE ABANDONED

17. CONTRACTOR SHALL USE DUST CONTROL MEASURES DURING CONSTRUCTION.

18. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL SPOT ELEVATIONS FOR THE ARCHITECTS APPROVAL PRIOR TO THE INSTALLATION OF ALL ITEMS WHICH ARE SENSITIVE TO DRAINAGE AND/OR PEDESTRIAN AND VEHICULAR TRAFFIC. THIS INCLUDES BUT NOT LIMITED TO PAVEMENTS, AND GRASS AREAS.

19. ALL LAYOUT TO BE PERFORMED BASED UPON ASSUMED COORDINATE SYSTEM WHICH IS UNIQUE TO THIS PROJECT.

20. THE CONTRACTOR SHALL VERIFY THAT NO OTHER CONNECTIONS EXIST OTHER THAN SHOWN, CONCERNING SEWER LINES LABELED 'TO BE ABANDONED' OR 'TO BE REMOVED'. MOST EXISTING UTILITIES SHOWN HERE WERE TAKEN FROM OLD AND INCOMPLETE RECORD DRAWINGS. THE ARCHITECT AND THE OWNER ARE NOT RESPONSIBLE FOR THE ACCURACY OF THIS INFORMATION, THE CONTRACTOR MUST VERIFY THESE CONDITION ON HIS OWN, PRIOR TO COMMENCEMENT OF WORK.

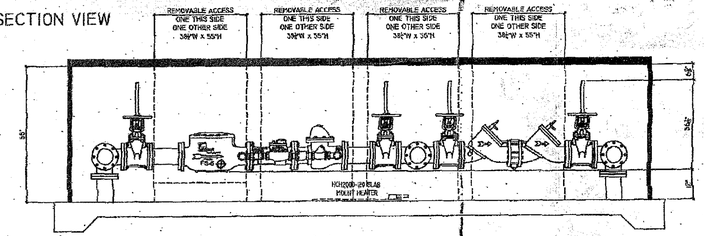
21. WHENEVER A PORTION OF EXISTING PAVEMENT IS TO BE REMOVED IT SHALL FIRST BE SAWCUT TO FULL DEPTH.

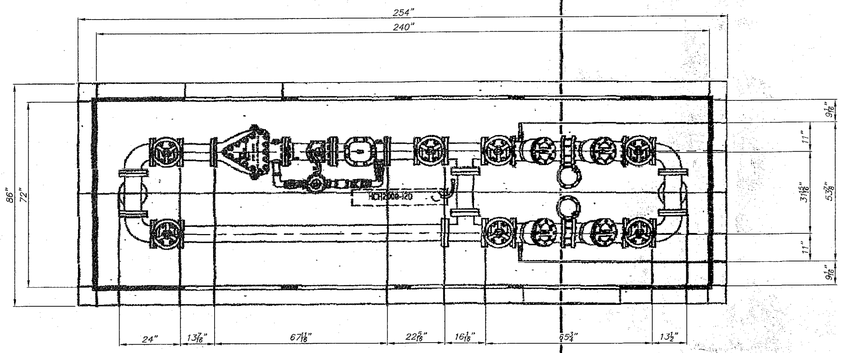
22. NO TREES SHALL BE REMOVED WITHOUT THE ARCHITECT'S/ENGINEER'S CONSENT.

23. SPOT ELEVATIONS AND CONTOURS ARE BASED ON NAVD 88 DATUM.

24. ALL UTILITIES MUST MEET TOWN OF BETHLEHEM STANDARDS AND DETAILS.

SECTION VIEW





GENERAL NOTES

1) OS&Y valves typical
2) Pipe shall be Ductile iron, class 42 double cement lined.
3) Below grade shall be Poly-wrapped.
4) Fittings shall be North American Made.
5) The size of piping, valves, Fireline meter, backflow preventer, enclosure and heater shall vary depending upon specific requirements.

1. DRAWING NOT TO SCALE.
2. BFP DIMENSIONS FURNISHED BY
3. ALL DIMENSIONS ARE IN INCHES.
4. WALL AND INSULATION THICKNESS IS 1-1/2".
5. ROOF AND INSULATION THICKNESS IS 3".
6. MODEL 1000DS-ALC02-3 ENCLOSURE
7. ENCLOSURE INSIDE DIMENSIONS: 72"W X 240"L X 55"H
8. CONCRETE PAD IS 86"W X 254"L.
9. BFP - DUAL 6" WATTS 909 OS&Y W/ 6" SENSUS FIRELINE METER AND STRAINER

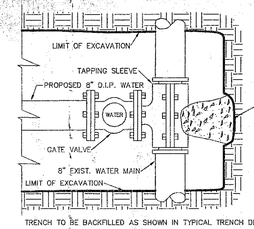
D6WA9090SY-6MTR-SI2.DWG
SHEET 1 OF 1

NOTES:
1) CONTRACTOR SHALL USE 6" SENSUS FIRELINE METER ASSEMBLY WITH STRAINER BRAND ONLY. IT SHALL HAVE A RADIO READ HEAD COMPATIBLE WITH BETHLEHEM WATER DISTRICT SYSTEM.

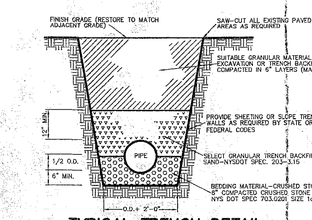
2) CONTRACTOR SHALL FURNISH AND INSTALL ELECTRICAL SERVICE TO ENCLOSURE FOR HEATING AND LIGHT UNITS.

3) CONTRACTOR SHALL SUBMIT A PROPOSED ELECTRICAL PLAN FOR ENCLOSURE HEATERS.

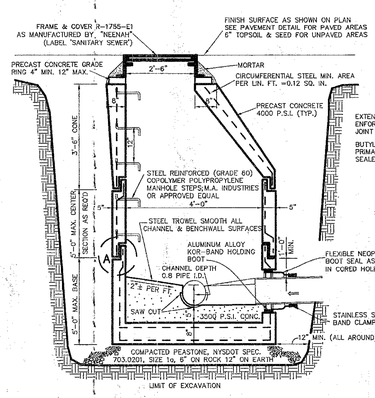
HOT BOX DETAIL
NOT TO SCALE



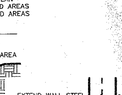
TAPPING VALVE & SLEEVE DETAIL
NOT TO SCALE



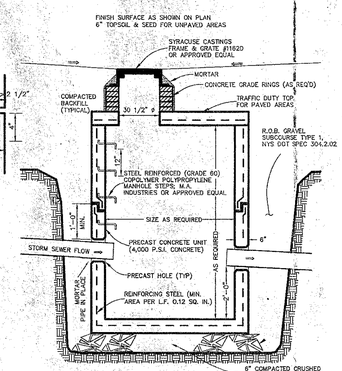
TYPICAL TRENCH DETAIL
NOT TO SCALE



SANITARY SEWER MANHOLE DETAIL
NOT TO SCALE



DETAIL A
NOT TO SCALE



CATCH BASIN DETAIL
NOT TO SCALE

TOWN OF BETHLEHEM, NEW YORK
PLANNING DEPT. ORIGINAL
- SCANNED -
0 1 INCHES 2

TOWN OF BETHLEHEM PLANNING BOARD APPROVAL

PLANNING BOARD
TOWN OF BETHLEHEM
ALBANY COUNTY, NEW YORK
This Site Plan Approved
Title CHAIRMAN
Date 6/3/2011 SPA172

RECEIVED
JUN 01 2011
Town of Bethlehem Planning Board

FILE COPY

HERSHBERG & HERSHBERG
Consulting Engineers and Land Surveyors
18 Locust Street
Albany, New York 12203

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STATE OF NEW YORK · HERSHBERG & HERSHBERG · 044226 · PROFESSIONAL ENGINEER & LAND SURVEYOR

REVISIONS	REMARKS	DATE
1	GENERAL REVISIONS	2/4/11
2	COMMENT LETTER (2/8/11)	3/1/11
3	COMMENT LETTER (3/18/11)	3/28/11
4	GENERAL REVISIONS	4/20/11
5	COMMENTS/FLOOR PLAN	5/11/11
6	FLOOR PLAN	5/12/11

DETAILS
PROPOSED APARTMENT COMPLEX
HAGUE BLVD. & ROUTE 9W
TOWN OF BETHLEHEM
ALBANY COUNTY, NY

FILE: 080233 | SCALE: AS SHOWN | BY: AS | CHK: DRH | DATE: 1/12/2010 | 080233-8

C–8