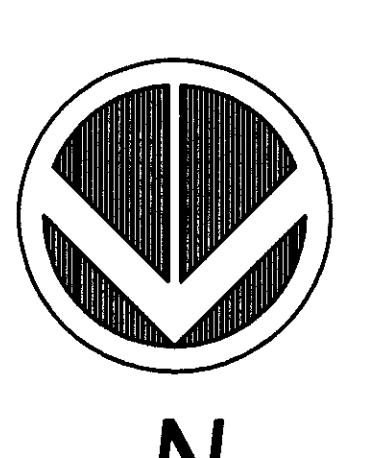
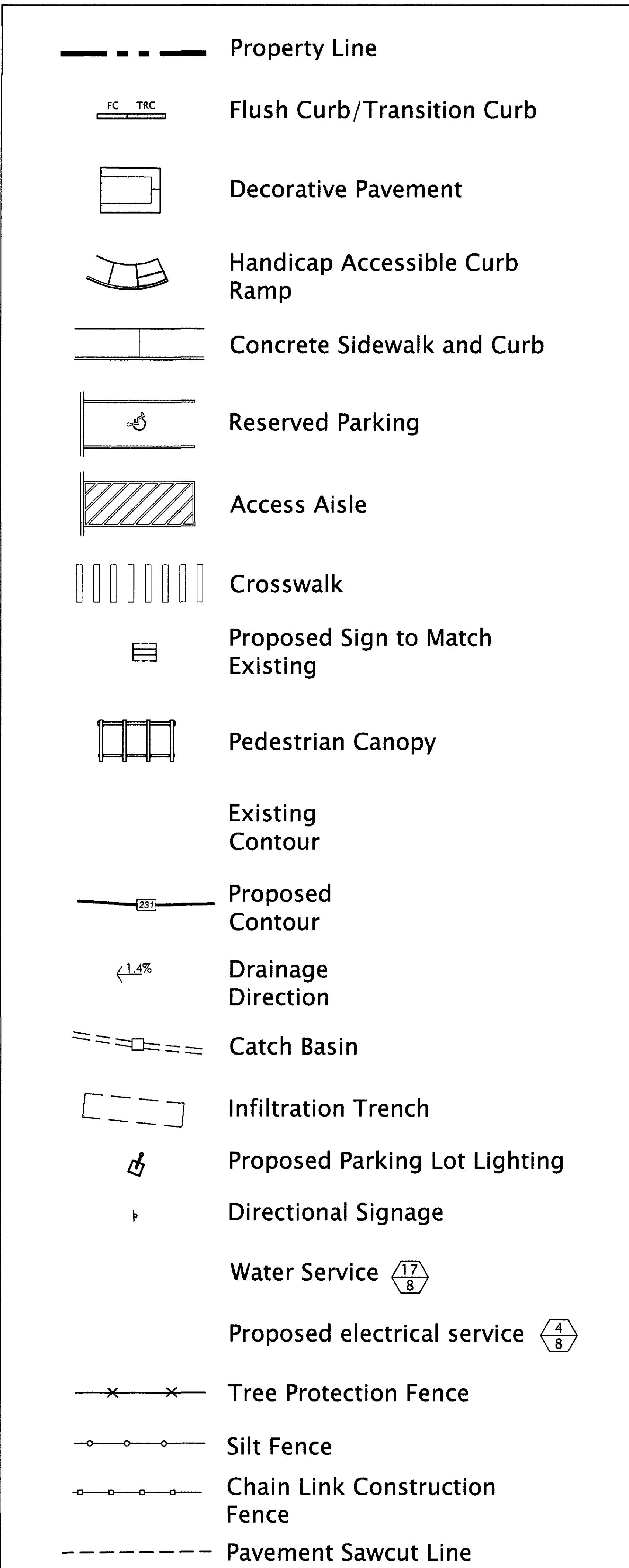


Grading & Drainage Notes

1. All points of construction ingress or egress shall be maintained to prevent tracking or flowing of sediment or debris onto a public road. Contractor to provide a Stabilized Construction Entrance, see detail 11-8.
2. During grading operations, drainage of the site and adjacent areas shall be maintained continuously to prevent erosion or other damage. When it is necessary to interrupt drainage or other existing utilities, provide temporary facilities until permanent work is completed.
3. Accessible Sidewalk Ramps not to exceed 8% longitudinal slope and not to exceed 2% cross slope as per drawings, specifications and regulations. All other sidewalks and crosswalks shall also not exceed 2% cross slope.
4. All stormwater structures within the property limits will be maintained by the Bethlehem Town Library.
5. Excavation required within 3 feet of existing utility lines and trees to be saved shall be done by hand; do not excavate soil with machinery. Contractor shall repair any damage to existing utility lines or structures incurred during construction operations at no additional cost to Owner.
6. Grade areas adjacent to building lines to drain away from structure and prevent ponding. Finish surfaces shall be free from irregular surface changes.
7. Should anything be omitted from the plans which is necessary for a complete understanding of the work, or should any error appear in the various instruments furnished or in the work by other Contractors affecting the work covered hereby, the Contractor shall and will promptly notify the Owner's Representative, and in the event of the Contractor's failure to do so, he shall and will make good any damage or defect in his work caused thereby.
8. Existing pavement drainage conditions may necessitate modification of proposed grades as shown. All proposed field adjustments must be reviewed and approved by Landscape Architect.
9. Sidewalks to have maximum 2% cross slope.
10. Accessible areas (reserved parking spaces and access aisles) to have maximum 2% slope in any direction.
11. Transitions from all new pavements to existing pavements shall be smooth and flush.
12. Refer to plan for specific grades and elevations.
13. After all disturbed areas have been stabilized and the final inspection has been performed by the owner's representative, remove all remaining temporary erosion and sediment control devices.
14. See CLA-8 for more grading plan details.
15. Contractor to avoid operating heavy machinery on Infiltration Trench locations prior to installation. Install construction fencing around areas to protect areas.

Legend



GRAPHIC SCALE

0 5

STORMTECH INFILTRATION TRENCH DETAIL

CROSS SECTION

N.T.S.

STORMTECH INFILTRATION TRENCH DETAIL

CROSS SECTION

N.T.S.

This technical diagram illustrates the cross-section of a Stormtech infiltration trench. The trench is a rectangular excavation with a depth of 10.0 feet. The bottom of the trench is labeled 'UNDISTURBED SUBGRADE'. A '2 FT MIN. SUMP' is indicated at the bottom left. The trench is filled with '1-2 INCH WASHED, CRUSHED ANGULAR STONE' and 'WOVEN GEOTEXTILE THAT MEETS AASHTO M288 CLASS 1 REQUIREMENTS, BETWEEN STONE BASE AND CHAMBERS SC-310 - 4' WIDE STRIP, ISOLATOR CHAMBER ONLY'. The top of the trench is covered with 'GRANULATED WELL GRADED SOIL/AGGREGATE MIXTURE <35% FINES'. An '12" ID CLEANOUT PIPE' is shown entering the trench from the left. An 'INSPECTION PORT, ISOLATOR CHAMBER ONLY SEE DETAIL 3-4' is located on the left side. A 'STORMTECH CHAMBER' is shown on the right side. The top of the trench is labeled 'PAVEMENT SURFACE' and 'STORMTECH ENDCAP'. A '1' foot dimension is shown on the left side, and a '1' foot dimension is shown on the right side. A 'SEASONAL HIGH WATER TABLE NOT ENCOUNTERED AT 10.0'' is indicated on the right side. An arrow labeled 'INFLOW FROM CATCH BASINS' points into the trench. A label 'VARIES, SEE PLANS' is located at the bottom center. A label 'AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE AROUND ENTIRE TRENCH, ADS 601 OR EQUAL' is located on the right side. A label 'COVER ENTIRE ROW WITH AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE SC-310 - 5' WIDE STRIP, ISOLATOR CHAMBER ONLY, ADS 601 OR EQUAL' is located at the top right. A label 'CATCH BASIN, SEE DETAIL 3-8 HEAVY DUTY FRAME, SOLID GRATE NEENAH R-1500 OR APPROVED EQUAL' is located at the top left.

Stormtech General Notes

1. STORMTECH LLC ("STORMTECH") REQUIRES INSTALLING CONTRACTORS TO USE AND UNDERSTAND STORMTECH'S LATEST INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION.
2. OUR TECHNICAL SERVICES DEPARTMENT OFFERS INSTALLATION CONSULTATIONS TO INSTALLING CONTRACTORS. CONTACT OUR TECHNICAL SERVICES REPRESENTATIVE AT LEAST 30 DAYS PRIOR TO SYSTEM INSTALLATION TO ARRANGE A PRE-INSTALLATION CONSULTATION. OUR REPRESENTATIVES CAN THEN ANSWER QUESTIONS OR ADDRESS COMMENTS ON THE STORMTECH CHAMBER SYSTEM AND INFORM THE INSTALLING CONTRACTOR OF THE MINIMUM INSTALLATION REQUIREMENTS BEFORE BEGINNING THE SYSTEM'S CONSTRUCTION. CALL **1-888-892-2694** TO SPEAK TO A TECHNICAL SERVICE REPRESENTATIVE OR VISIT **WWW.STORMTECH.COM** TO RECEIVE A COPY OF OUR INSTALLATION INSTRUCTIONS.
3. STORMTECH'S REQUIREMENTS FOR SYSTEMS WITH PAVEMENT DESIGN (ASPHALT, CONCRETE PAVERS, ETC.): MINIMUM COVER IS 18 INCHES NOT INCLUDING PAVEMENT; MAXIMUM COVER IS 96 INCHES INCLUDING PAVEMENT. FOR INSTALLATIONS THAT DO NOT INCLUDE PAVEMENT, WHERE RUTTING FROM VEHICLES MAY OCCUR, MINIMUM REQUIRED COVER IS 24 INCHES, MAXIMUM COVER IS 96 INCHES.
4. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE DESIGN ENGINEER.
5. AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE (FILTER FABRIC), OR APPROVED EQUAL, MUST BE USED AS INDICATED IN THE PROJECT PLANS.
6. STONE PLACEMENT BETWEEN CHAMBERS ROWS AND AROUND PERIMETER MUST FOLLOW INSTRUCTIONS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
7. BACKFILLING OVER THE CHAMBERS MUST FOLLOW REQUIREMENTS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
8. THE CONTRACTOR MUST REFER TO STORMTECH'S INSTALLATION INSTRUCTIONS FOR A TABLE OF ACCEPTABLE VEHICLE LOADS AT VARIOUS DEPTHS OF COVER. THIS INFORMATION IS ALSO AVAILABLE AT STORMTECH'S WEBSITE: **WWW.STORMTECH.COM**. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING VEHICLES THAT EXCEED STORMTECH'S REQUIREMENTS FROM TRAVELING ACROSS OR PARKING OVER THE STORMWATER SYSTEM. TEMPORARY FENCING, WARNING TAPE AND APPROPRIATELY LOCATED SIGNS ARE COMMONLY USED TO PREVENT UNAUTHORIZED VEHICLES FROM ENTERING SENSITIVE CONSTRUCTION AREAS.
9. THE CONTRACTOR MUST APPLY EROSION AND SEDIMENT CONTROL MEASURES TO PROTECT THE STORMWATER SYSTEM DURING ALL PHASES OF SITE CONSTRUCTION PER LOCAL CODES AND DESIGN ENGINEER'S SPECIFICATIONS.
10. STORMTECH PRODUCT WARRANTY IS LIMITED. SEE CURRENT PRODUCT WARRANTY FOR DETAILS. TO ACQUIRE A COPY CALL STORMTECH AT **1-888-892-2694** OR VISIT **WWW.STORMTECH.COM**.

REVISION DESCRIPTION		Drawn By	Checked By	Date
REVISION NUMBER	Comments	SEM	PAL	
1	Revisions per NYSSED Comments	SEM	PAL	8-28-0
2	Revisions per Bethlehem Library	SEM	PAL	4-29-0
3	Revisions per Bethlehem Library	SEM	PAL	5-29-0
4	Change Order #1 Borthwick Sidewalk Addition	SEM	PAL	7-14-0

BETHLEHEM PUBLIC LIBRARY
WORKING AND CIRCULATION IMPROVEMENT
451 DELAWARE AVENUE
DELMAR, NEW YORK

卷之三



Sheet No. 4 of 8

Drawing No. 100

CLIA-4

CEA

GEOTEXTILE
OR EQUAL

3 STORMTECH INFILTRATION TRENCH DETAIL
4 CROSS SECTION **N.T.S.**

A hand-drawn scale bar and identification label. The scale bar is a horizontal line with vertical tick marks. The word "INCHES" is written below the zero mark. The number "0" is at the left end, "1" is at the first tick mark, and "2" is at the right end. To the right of the scale bar, the identifier "A-07" is written, and below it, "TOWN OF BETHLEHEM" is written. The drawing is done in black ink on a white background.

CLA-4