

RESOLUTION NO.: 252 - 2016

OF

SEPTEMBER 26, 2016

**A RESOLUTION APPROVING CITY OF NEWBURGH STREETSCAPE  
STANDARDS UNDER SECTION 263-5(C) OF THE CITY CODE OF ORDINANCES**

WHEREAS, Section 263-5 regulates the installation or repair of a sidewalk or curb in the public street and requires that repairs, alterations and resurfacing to existing sidewalks and curbs be made in compliance with the specifications of the City Engineer; and

WHEREAS, the City Engineer, in conjunction with a consulting Landscape Architect, the Conservation Advisory Council, the Planning Board and the Architectural Review Commission, has developed updated sidewalk standards and specifications for the repair, alternation and resurfacing of sidewalks and curbs; and

WHEREAS, the updated sidewalk standards and specifications prepared by the City Engineer must be approved by the City Council under City Code Section 263-5(C); and

WHEREAS, this Council has reviewed the updated sidewalk standards and specifications prepared by the City Engineer and finds that approving said sidewalk standards and specifications is in the best interests of the City of Newburgh and its further development;

NOW, THEREFORE, BE IT RESOLVED, that the Council of the City of Newburgh, New York hereby approves the updated sidewalk standards and specifications prepared by the City Engineer and which may modified from time to time as may be necessary in the professional assessment of the City Engineer.

I, Lorene Vitek, City Clerk of the City of Newburgh,  
hereby certify that I have compared the foregoing with the  
original resolution adopted by the Council of the City of  
Newburgh at a regular meeting held 9/26/16  
and that it is a true and correct copy of such original.

Witness my hand and seal of the City of  
Newburgh this 26 day of Sept 2016

Lorene Vitek  
City Clerk

## City of Newburgh Streetscape Standards

The City of Newburgh has taken the opportunity to update its sidewalk standards in order to implement aspects of Complete Streets and Green Infrastructure in accordance with the Long Term Control Plan. The standards were developed for a specific project; a section of Liberty Street between Broadway and Ann Street. During development of the new streetscape standards, the entire City was considered, and material alternatives were chosen to aesthetically unify the City.

The following narrative shall be used to determine when aspects of the streetscape standards are required dependent upon project type, size and location. The City Engineer shall have discretion to determine when certain aspects of the standards shall be implemented and/or waived.

Projects that affect a substantial portion of a City street, or that involve multiple contiguous properties, shall be required to implement the full spectrum of the City of Newburgh Streetscape Standards. This includes, but is not limited to curb replacement, sidewalk replacement, street trees, and bioswales, (Refer to *R.O.W. Bioswale* details, *R.O.W. Bioswale Sections* detail, and *R.O.W. Bioswale Fence* detail) and separation of storm sewers from the combined sewers where appropriate. A Site Plan inclusive of these streetscape improvements in accordance with §300-87 of the City Code shall be required and reviewed by the City Engineer. Discussions with the City Engineer is required prior to construction in order to evaluate the project and determine the extent of the City of Newburgh Streetscape Standards required for the project.

Small-scale projects that are related to a single property are required to adhere to the City Streetscape Standards, and are generally exempt from the requirements to install bioswales and associated infrastructure. The addition of pervious surfaces are always encouraged. Additionally, utility service work, where excavations exceed a disturbance of eight (8) feet of the sidewalk and/or curb shall require replacement in accordance with the City of Newburgh Streetscape Standards, but may be exempt from the requirement of bioswales and associated CSO mitigation infrastructure, in consultation from the City Engineer.

In the East End Historic District, the following materials are required with the reconstruction of any aspect of the streetscape within the City's right-of-way, and must be constructed in accordance with the details and specifications maintained by the Engineering Department. Approved equivalents may be used upon written approval by the City Engineer.

### Sidewalks:

1. Natural bluestone slabs or cut bluestone; [REQUIRED ADJACENT TO THE DUTCH REFORMED CHURCH & WASHINGTON'S HEADQUARTERS]
2. Concrete, dyed (Uni-Mix Integral Colorant by Butterfield Color, Inc., Product No. U28 and Perma-Cast Antiquing Release by Butterfield Color, Inc., Product No. R28) and stamped (18" x 36" Bluestone by Butterfield Color, Inc., Product No. BST4210). Refer to *Concrete Sidewalk Detail* and *Stamped Bluestone Concrete Pattern*; or

3. Hanover Architectural Products Slateface Prest Pavers, color Bluestone (Product No. M2374). Refer to *Concrete Paver Sidewalk Detail* and *Sidewalk Alternate Concrete Pavers* detail.

Curbs:

1. Granite (mountable on radii of curb extensions). Refer to *Granite Curb @ Sidewalk* detail.

Driveway Aprons:

1. Broom finished concrete, dyed (Uni-Mix Integral Colorant by Butterfield Color, Inc., Product No. U28 and Perma-Cast Antiquing Release by Butterfield Color, Inc., Product No. R28); or
2. Other sympathetic or adjacent materials approved by the City Engineer.
1. Planting Strip, Snow Storage Strip (space between the required bioswales or tree pits) Porous Pavement (Flexi-Pave by K.B. Industries, Inc., color Redwood. Refer to *Porous Flexible Pavement* detail.;
2. Hanover Architectural Products Permeable 4" X 8", color Quarry Red, Refer to *Permeable Pavers* detail; or
3. Turf

Any other materials than those specified above will need to be reviewed and approved by the City's Architectural Review Board with a recommendation from the City Engineer.

In other parts of the City, the following materials are required with the reconstruction of any aspect of the streetscape within the City's right-of-way and must be constructed in accordance with the details and specifications maintained by the Engineering Department. Approved equivalents may be used upon approval by the City Engineer.

Sidewalks:

1. Natural bluestone slabs or cut bluestone;
2. Concrete, dyed (Uni-Mix Integral Colorant by Butterfield Color, Inc., Product No. U28 and Perma-Cast Antiquing Release by Butterfield Color, Inc., Product No. R28) and stamped (18" x 36" Bluestone by Butterfield Color, Inc., Product No. BST4210). Refer to *Concrete Sidewalk Detail* and *Stamped Bluestone Concrete Pattern.*;
3. Hanover Architectural Products Slateface Prest Pavers, color Bluestone (Product No. M2374). Refer to *Concrete Paver Sidewalk Detail* and *Sidewalk Alternate Concrete Pavers* detail.;
4. Broom finished concrete.

Curbs:

1. Granite (mountable on radii of curb extensions). Refer to *Granite Curb @ Sidewalk* detail.;
2. Concrete (mountable on radii of curb extensions).

Driveway Aprons:

---

1. Broom finish concrete.

Planting Strip, Snow Storage Strip

1. Porous Pavement (Flexi-Pave by K.B. Industries, Inc., color Redwood. Refer to Porous Flexible Pavement detail;
2. Hanover Architectural Products Permeable 4" X 8", color Quarry Red. Refer to Permeable Pavers detail; or
3. Turf.

	East End Historic District			
	Residential Area	Commercial Area	Residential Area	Commercial Area
<b>Sidewalks</b>				
Bluestone	✓	✓	✓	✓
Stamped Concrete*	✓	✓	✓	✓
Concrete Pavers*	✓	✓	✓	✓
Concrete			✓	✓
<b>Curbs</b>				
Granite	✓	✓	✓	✓
Concrete			✓	✓
<b>Driveway Aprons</b>				
Concrete	✓	✓	✓	✓
<b>Planting Strip</b>				
Porous Pavement*		✓		✓
Permeable Concrete Pavers*		✓		✓
Turf	✓		✓	

\*Materials shall be consistent with those products listed on the previous pages.

# LIBERTY STREET CDBG SIDEWALKS

BETWEEN ANN STREET AND BROADWAY  
CITY OF NEWBURGH, ORANGE COUNTY,  
NEW YORK

JULY 13, 2016



**DISCLAIMER:**  
The following plan set has been developed as the new City of Newburgh streetscape standards, as of 2016. The specific location of the plan set refers to a section of Liberty Street between Broadway and Ann Street. The detailing provided included information to assist the public to all streets throughout the city and some may not be applicable to all streetscape projects. Therefore, the plan must be adopted in each individual streetscape project location in coordination with the City Engineer and the City Planner.

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8		C-501	04/05/10	SITE DETAILS
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12		C-510	00/24/10	E&SC NOTES AND DETAILS
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14		C-516	00/24/10	WATER DETAILS
15		C-520	00/24/10	LANDSCAPING NOTES AND DETAILS

ZONING DISTRICTS:  
R1 - BROADWAY CORRIDOR

IT IS A VIOLATION OF LAW FOR ANY PERSON, FIRM OR CORPORATION TO REPRODUCE OR TRANSMIT IN ANY MANNER THE CONTENTS OF THIS PLAN SET WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER AND CITY PLANNER. ANY SUCH VIOLATION SHALL BE SUBJECT TO THE PENALTIES PROVIDED IN THE CITY CHARTER AND CITY CODE. THE CITY ENGINEER AND CITY PLANNER SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE OR INJURY TO PERSONS OR PROPERTY CAUSED BY THE USE OF THIS PLAN SET.

DESIGNER				APPROVER			
NO.	NAME	DATE	APP'D	NO.	NAME	DATE	APP'D



**LIBERTY STREET  
CDBG SIDEWALKS**  
BETWEEN ANN STREET AND BROADWAY  
CITY OF NEWBURGH, ORANGE COUNTY,  
NEW YORK

DESIGNED BY:	APPROVED BY:
DRAFTED BY:	DATE:
CHECKED BY:	PROJECT NO.:

SHEET TITLE:  
**COVER SHEET**

SHEET NUMBER:  
**G-101**

**EXISTING CONDITIONS NOTES:**

**GENERAL NOTES:**

1. UNDERGROUND FACILITIES AND STRUCTURES SHOWN HEREON WERE TAKEN FROM DATA OBTAINED FROM PREVIOUS MAPS AND RECORD DRAWINGS, ALL ABOVE GROUND STRUCTURES AND SURFACE FEATURES SHOWN HEREON ARE THE RESULT OF A FIELD SURVEY UNLESS OTHERWISE NOTED. THERE MAY BE OTHER UNDERGROUND UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN OR CERTIFIED BY THE UNDERSIGNED, THE SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES. THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION MUST BE NOTIFIED PRIOR TO CONDUCTION TEST BORINGS, EXCAVATION AND CONSTRUCTION.

**SURVEY REFERENCES:**

1. "TOPOGRAPHIC SURVEY OF A PORTION OF LIBERTY STREET" PREPARED BY AUSFELD & WALDRUFF LAM SURVEYS LLP, DATED DECEMBER 29, 2015.

**MAP REFERENCES:**

1. "LOT LINE CHANGE FOR LANDS OF SAFE HARBORS OF THE HUDSON, INC." PREPARED BY MARGARET HILLINGGILL, DATED MARCH 31, 2004, LAST REVISED JUNE 15, 2004 AND FILED IN THE ORANGE COUNTY CLERK'S OFFICE AS MAP 547-04.



CITY OF NEWBURGH  
 33 BROADWAY  
 NEWBURGH, NY 12550  
 TEL: (845) 899-7300

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 260, SUBSECTION 2 OF THE NEW YORK STATE LAW AND IS A CLASS "A" MISDEMEANOR.

**CONSTRUCTION DOCUMENTS**

DATE: **JULY 13, 2016**

**ADDENDA/REVISIONS**

NO.	NAME	DATE

THIS DRAWING REPLACES ALL CHANGES PREVIOUSLY MADE ON THIS SHEET. VERIFY THAT PREVIOUS CHANGES HAVE BEEN INCORPORATED INTO THE CONTRACT BEFORE PROCEEDING WITH ANY WORK. NOT NECESSARILY REFERENCED BY THIS REVISION.

PROJECT NUMBER:	
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	

PROJECT TITLE:  
**LIBERTY STREET  
 CDBG SIDEWALKS**

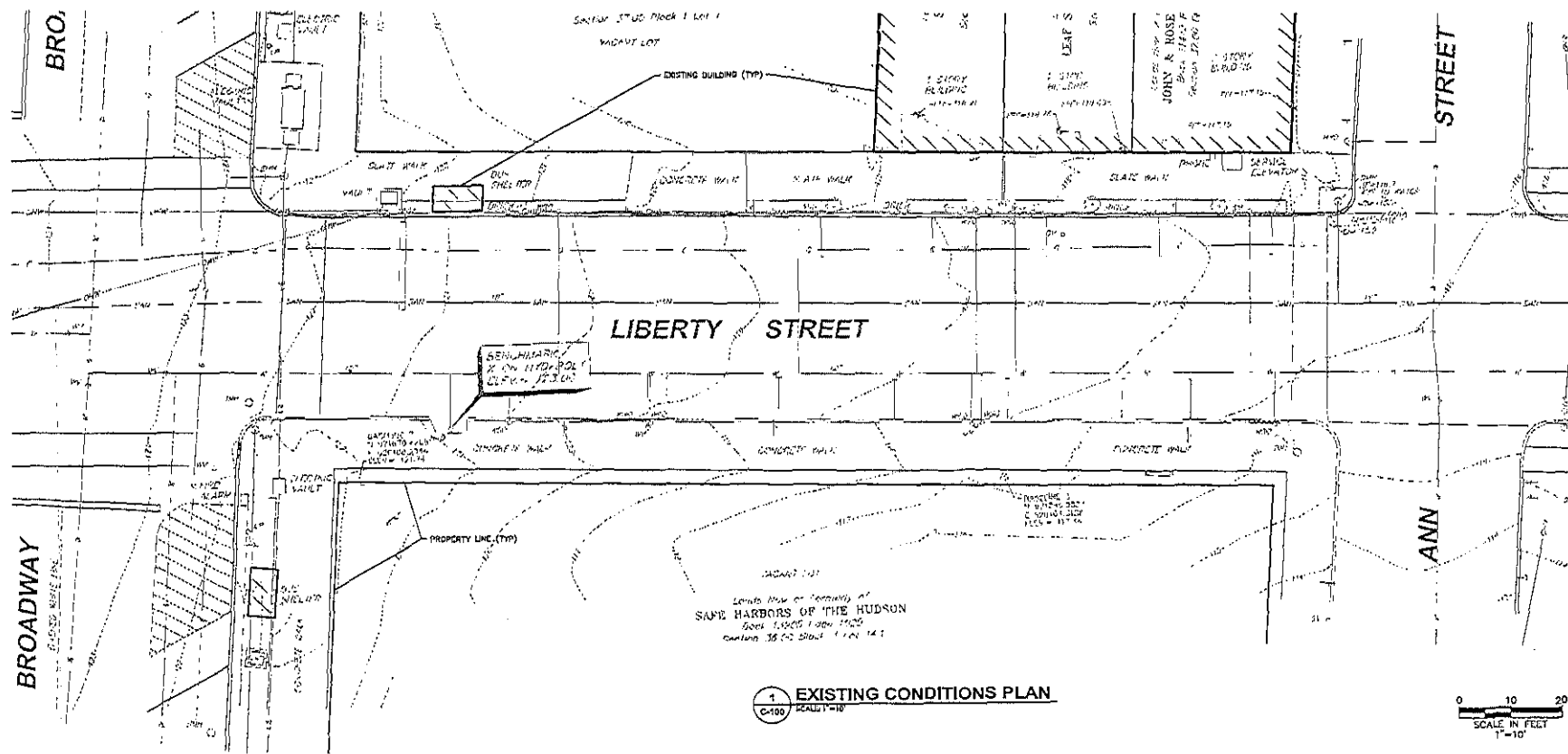
LOCATION:  
 LIBERTY STREET  
 CITY OF NEWBURGH  
 ORANGE COUNTY, NEW YORK

OWNER:  
 CITY OF NEWBURGH

SHEET TITLE:  
**EXISTING  
 CONDITIONS  
 PLAN**

DRAWING NUMBER:  
**C-100**

SHEET **2** OF **15**



**EXISTING CONDITIONS PLAN**  
 SCALE: 1"=10'

DATE PLOTTED: 7/13/16 11:43 AM  
 C:\PROJECTS\1508\1508.dwg  
 24x36 (E) SHEET





**SITE PLAN LEGEND:**

- DISTURBANCE LIMITS
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE CURBING
- ⊙ PROPOSED PARKING COUNT

**GENERAL CONSTRUCTION NOTES:**

1. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED AS ORDERED BY THE ENGINEER OR OWNER SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
2. NOTIFY CITY ENGINEER 48 HOURS PRIOR TO INITIALIZATION OF ANY WORK ON SITE.
3. THE CITY 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 PRIOR REVIEW FROM THE CITY ENGINEER.
4. CONTRACTOR IS RESPONSIBLE FOR EMPLOYING AND MAINTAINING ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING CONSTRUCTION. A DETAILED MAINTENANCE AND PROTECTION OF TRAFFIC PLAN SHALL BE SUBMITTED FOR APPROVAL TO THE CITY OF NEWBURGH BEFORE BEGINNING CONSTRUCTION. COORDINATE WITH CITY POLICE AND FIRE DEPARTMENT FOR ROAD CLOSURES.
5. CONTRACTOR IS RESPONSIBLE FOR PROPERLY & SAFELY MAINTAINING AREA BETWEEN ALL ADJOINING PROPERTIES.
6. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE SITE PROPERTY LINES OR PUBLIC RIGHT-OF-WAY.
7. ALL EXISTING LAWN AREA, CURBING, PAVING, SIDEWALKS, CURBS OR OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED BY TRENCHING OR EXCAVATION OPERATIONS SHALL BE REPLACED OR REPAIRED TO A CONDITION EQUAL TO EXISTING, AS DESCRIBED IN CONTRACT DOCUMENTS OR AS ORDERED BY THE CITY ENGINEER (ASDC). MANHOLES, JUNCTION BOXES, ETC SHALL BE PROTECTED OR REMOVED AND REPLACED EXACTLY AS THEY WERE BEFORE BEING DISTURBED. REMOVE AND REPLACE AFFECTED CURBING AND SIDEWALK TO NEAREST JOINT. REMOVE PAVEMENT AND REPLACE TO SAW CUT LINE, SAW CUT IN STRAIGHT LINE TO POINT NEEDED TO BLEND GRADE, REMOVE LAWN AND REPLACE TO MINIMUM LIMIT OF EXCAVATION.
8. CONTRACTOR SHALL EVALUATE EXISTING CONDITIONS OF ALL STORMWATER CATCH BASINS IDENTIFIED FOR SEDIMENT PROTECTION AND REPORT TO THE CITY ENGINEER BEFORE BEGINNING CONSTRUCTION AND ESTABLISHING SEDIMENT CONTROLS.

**PAVING:**

1. NO VEHICULAR TRAFFIC OF ANY SORT SHALL BE PERMITTED ON THE SURFACE OF SUBBASE COURSE MATERIAL ONCE IT HAS BEEN GRADED, COMPACTED, AND IS READY FOR PAVING. SUBBASE MATERIAL SO PREPARED FOR PAVING SHALL BE PAVED WITHIN THREE DAYS OF PREPARATION.
2. SUBBASE MATERIAL AND THE VARIOUS ASPHALT CONCRETE MATERIALS CALLED FOR IN THESE DRAWINGS SHALL CONFORM WITH THE REFERENCED SECTION OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JANUARY 1, 2016, INCLUDING ALL REVISIONS AND ADDENDUMS. CONSTRUCTION SHALL BE AS FURTHER SET FORTH IN THESE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE DRAWINGS.
3. PLACE ASPHALT CONCRETE MIXTURE ON PREPARED SURFACE, SPREAD AND STRIKE-OFF USING A SELF-PROPELLED PAVING MACHINE, WITH VIBRATING SCREENS. PLACEMENT IN INACCESSIBLE AND SMALL AREAS MAY BE BY HAND.
4. PROVIDE JOINTS BETWEEN OLD AND NEW PAVEMENTS OR BETWEEN SUCCESSIVE DAYS WORK.
5. TACK COAT WHEN SPECIFIED OR CALLED OUT ON THE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATION SHALL CONFORM WITH THE FOLLOWING:
  - A. TACK COAT SHALL MEET THE MATERIAL REQUIREMENTS OF 702-90 ASPHALT EMULSION FOR TACK COAT OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JANUARY 1, 2016. SHALL BE APPLIED IN ACCORDANCE WITH SECTION 407 - TACK COAT SHALL BE IN ACCORDANCE WITH THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE DRAWINGS.
  - B. REMOVE LOOSE AND FOREIGN MATERIAL FROM ASPHALT SURFACE BEFORE PAVING NEXT COURSE. USE POWER WIRE BRUSH, BLOWER OR HAND BRUSH.
  - C. APPLY TACK COAT TO ASPHALT PAVEMENT SURFACES AND SURFACES OF CURBS BELOW PAVEMENT LEVEL, CUTTINGS, MANHOLES, AND OTHER STRUCTURES PROJECTING INTO OR ADJUTING PAVEMENT, DRY TO A "TACKY" CONSISTENCY BEFORE PAVING.
  - D. TACK COAT ENTIRE VERTICAL SURFACE OF ADJUTING EXISTING PAVEMENT.
6. AFTER COMPLETION OF PAVING AND SURFACING OPERATIONS, CLEAN SURFACES OF EXCESS OR SPILLED ASPHALT, GRAVEL OR STONE MATERIALS TO THE SATISFACTION OF THE CITY ENGINEER.

**LAYOUT:**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING 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, DEPTH, VALUE, LENGTH OF LINE AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE CITY ENGINEER AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR AMENDMENT TO THE SATISFACTION OF THE CITY ENGINEER BEFORE UTILITIES WILL BE ACCEPTED.

**STRIPING:**

1. STRIPE PAVEMENT AS INDICATED ON THE PLANS AND/OR IN ACCORDANCE WITH ALL APPLICABLE LOCAL STATE AND FEDERAL REQUIREMENTS.
2. COLOR: DRIVE LANE DIVIDERS - WHITE OR ADOB; NO PARKING ZONE WARNINGS - WHITE OR ADOB; PARKING DIVIDERS - WHITE OR ADOB; WALKING LINES - WHITE OR ADOB; HANDICAP PARKING LINES & SYMBOL - BLUE



CITY OF NEWBURGH  
63 BROADWAY  
NEWBURGH, NY 12550  
TEL: (845) 566-7300

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 236, PARAGRAPH 2 OF THE NEW YORK STATE LAW AND IS A CRIME BY UNDERSTANDING.

**CONTRACT PARTS  
CONSTRUCTION DOCUMENTS**

DATE: **JULY 13, 2016**

**ADDENDA/REVISIONS**

NO.	NAME	DATE

THIS DRAWING REFLECTS ALL CHANGES PREVIOUSLY MADE ON THIS SHEET. VERIFY THAT PREVIOUS CHANGES HAVE BEEN INCORPORATED INTO THE CONTRACT BEFORE PROCEEDING WITH ANY WORK NOT SPECIFICALLY REFERENCED BY THIS SPECIFICATION.

PROJECT NUMBER:	DESIGNED BY:	DRAWN BY:	CHECKED BY:

PROJECT TITLE:  
**LIBERTY STREET  
CDBG SIDEWALKS**

LOCATION:  
LIBERTY STREET  
CITY OF NEWBURGH  
ORANGE COUNTY, NEW YORK

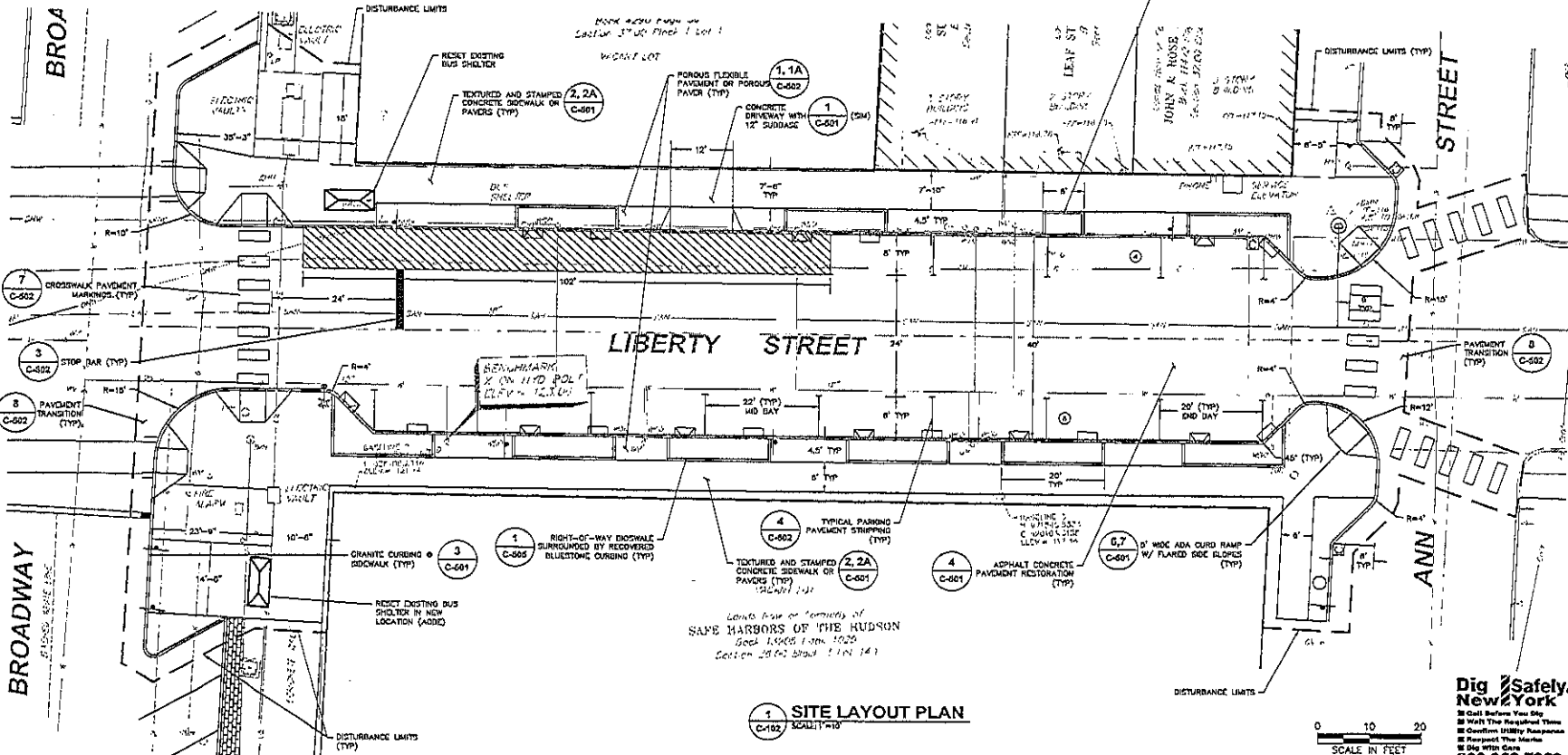
OWNER:  
CITY OF NEWBURGH

**SITE LAYOUT  
PLAN**

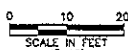
DRAWING NUMBER:

**C-102**

SHEET 4 OF 15



**1 SITE LAYOUT PLAN**  
SCALE: 1"=10'



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24 JUL 2016 1:24 PM  
 EXISTING SIDEWALK STRIPING AND CURBING TO BE MAINTAINED AS SHOWN ON THESE PLANS  
 24 JUL 2016 1:24 PM

**GRADING PLAN LEGEND:**

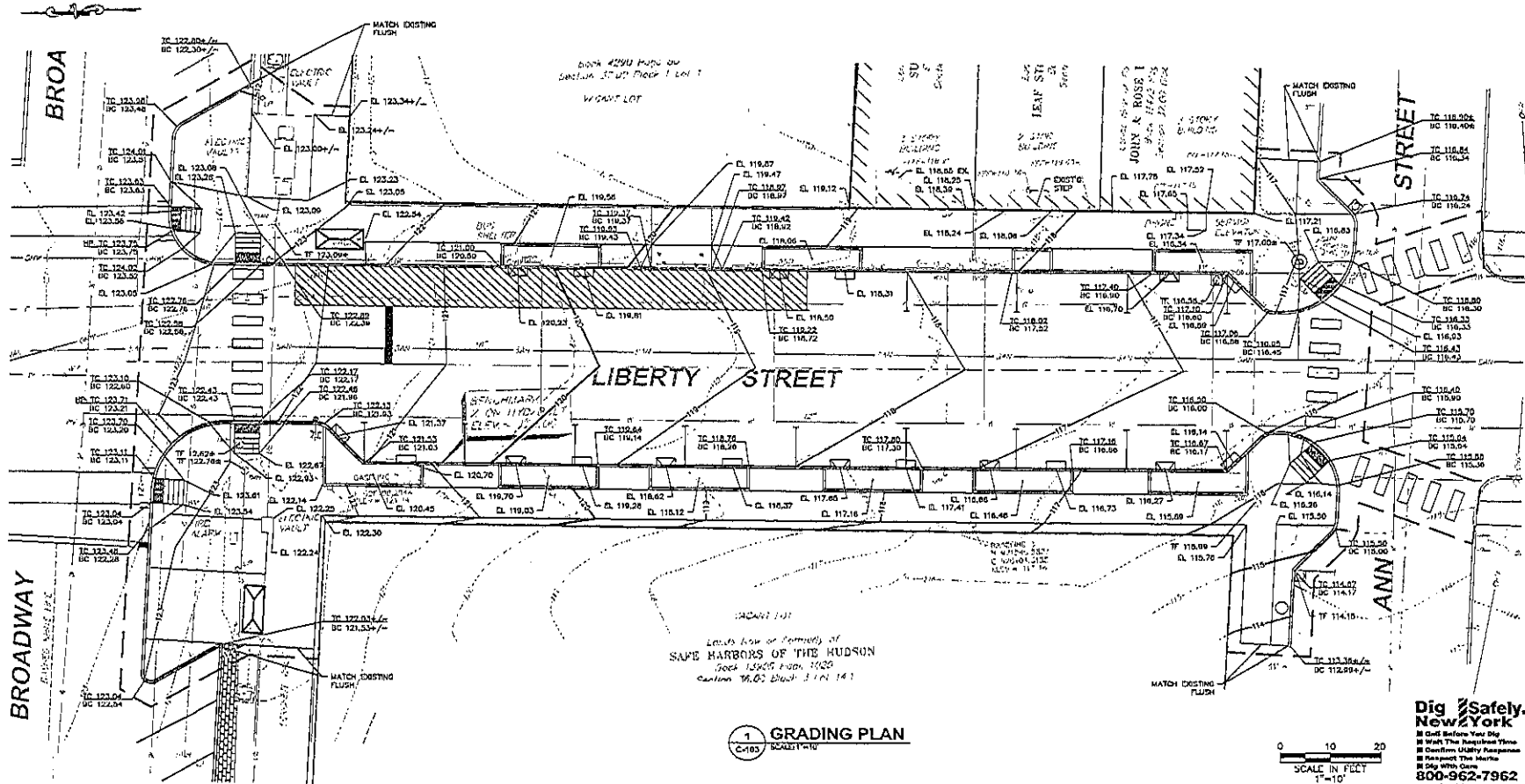
- DISTURBANCE LIMITS
- 112 PROPOSED 1 FT CONTOURS
- 120 PROPOSED 3 FT CONTOURS
- 121.67 PROPOSED SPOT ELEVATION

**GRADING NOTES:**

1. PRIOR TO SITE DISTURBANCE, CONTRACTOR TO INSTALL EROSION & SEDIMENT CONTROL MEASURES.
2. ALL EARTHWORK SHALL BE SMOOTHLY AND EVENLY BLENDED INTO EXISTING CONDITIONS. NO WORK, STORAGE OR TRUCKPAGES SHALL BE PERMITTED BEYOND THE BOUNDARIES OF ANY EASEMENT OR PROPERTY LINE.
3. RAISE ALL EXISTING UTILITY COVERS TO MATCH PROPOSED GRADES FLUSH.

**ABBREVIATIONS:**

- TF TOP OF FRAME
- HP HIGH POINT
- LP LOW POINT
- TC TOP OF CURB
- BC BOTTOM OF CURB
- INVERT
- MATCH EXISTING
- SPOT ELEVATION



**1 GRADING PLAN**  
C-103



CITY OF NEWBURGH  
82 BROADWAY  
NEWBURGH, NY 12550  
TEL: (845) 569-7300

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**CONTRACT PHASE**  
**CONSTRUCTION DOCUMENTS**

DATE: **JULY 13, 2016**

**ADDENDA/REVISIONS**

NO.	NAME	DATE

THIS DRAWING REFLECTS ALL CHANGES PREVIOUSLY MADE ON THIS SHEET. VERIFY THAT PREVIOUS CHANGES HAVE BEEN INCORPORATED INTO THE CONTRACT BEFORE PROCEEDING WITH ANY WORK NOT SPECIFICALLY AUTHORIZED BY THIS REVISION.

PROJECT NUMBER:
DESIGNED BY:
DRAWN BY:
CHECKED BY:

PROJECT TITLE:  
**LIBERTY STREET  
CDBG SIDEWALKS**

LOCATION:  
LIBERTY STREET  
CITY OF NEWBURGH  
ORANGE COUNTY, NEW YORK

OWNER:  
CITY OF NEWBURGH

SHEET TITLE:  
**GRADING  
PLAN**

DRAWING NUMBER:  
**C-103**

SHEET **5** OF **15**

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 ■ Confirm Utility Response  
 ■ Request The Mark  
 ■ Dig With Care  
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[www.dig-safely.com](http://www.dig-safely.com)

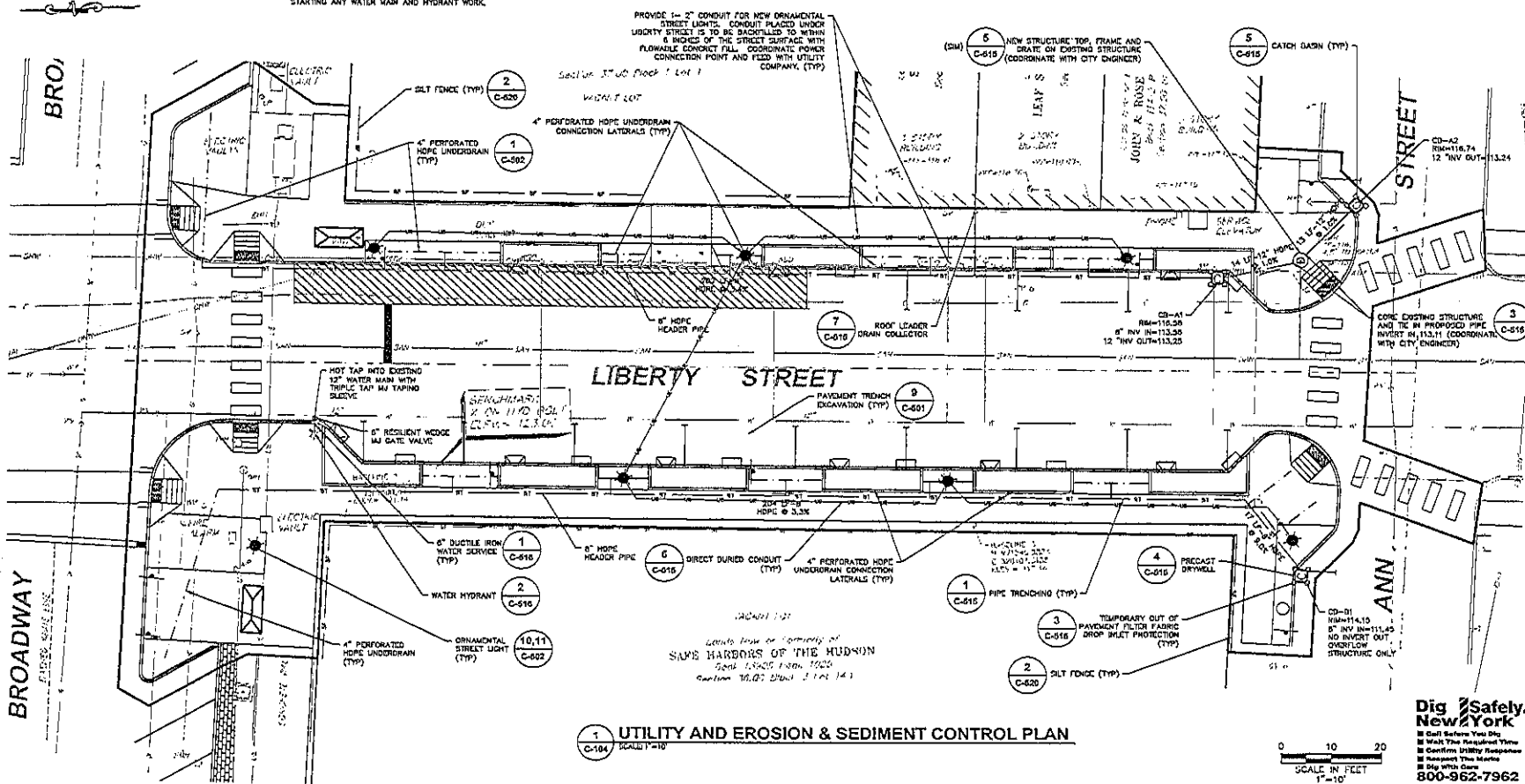
01/12/14 - 01/14  
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 3/14/14 8:47 AM

**UTILITY AND E&S LEGEND:**

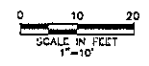
- DISTURBANCE LIMITS
- ST --- PROPOSED STORMWATER PIPE
- PROPOSED UNDERDRAIN
- UC --- PROPOSED UNDERGROUND ELECTRIC
- TEMPORARY SILT FENCE
- ★ PROPOSED ORNAMENTAL STREET LIGHT
- PROPOSED CATCH BASIN
- TEMPORARY OUT OF PAVEMENT FILTER FABRIC DROP INLET PROTECTION

**GENERAL NOTES:**

1. SEE SHEET C-104 FOR EROSION & SEDIMENT CONTROL NOTES AND DETAILS.
- UTILITY NOTES:**
1. ALL UNDERGROUND UTILITIES ARE SHOWN IN THEIR RELATIVE POSITION AND ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO VERIFY THEIR ACTUAL LOCATION IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. ANY CONDITION ENCOUNTERED IN THE FIELD DIFFERING FROM THOSE SHOWN HEREON, SHALL BE REPORTED TO THE CITY ENGINEER BEFORE CONSTRUCTION IS TO PROCEED.
3. ALL STORM SEWER SHALL BE SMOOTH INTERIOR HOPE UNLESS OTHERWISE SPECIFIED.
4. ALL WATER PIPE SHALL BE CLASS 52 DUCTILE IRON PIPE UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR TO VERIFY STATUS OF ALL UTILITY SERVICES PRIOR TO INTERRUPTION.
6. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED BY THE CONTRACTOR AT ALL UTILITY CONNECTION LOCATIONS AND AS NEEDED TO VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK.
7. BEFORE CONSTRUCTION LINES TO CONNECT TO EXISTING UTILITIES, VERIFY EXISTING UTILITY INVERTS AND NOTIFY THE ENGINEER IF ANY VARIATION FROM THE PLAN IS REQUIRED.
8. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE FOR THE DURATION OF THE WORK.
9. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS AND ASSOCIATED CONDITIONS.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR DOWNGRADING UTILITY TRENCHES AND EXCAVATIONS AND FOR THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF THE WORK.
11. CONTRACTOR SHALL COORDINATE AND NOTIFY CITY OF NEWBURGH WATER DEPARTMENT BEFORE STARTING ANY WATER MAIN AND HYDRANT WORK.



**1 UTILITY AND EROSION & SEDIMENT CONTROL PLAN**  
C-104 SCALE: 1"=10'



CITY OF NEWBURGH  
83 BROADWAY  
NEWBURGH, NY 12550  
TEL: (845) 569-7300

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 206, SUBSECTION 2 OF THE NEW YORK STATE LAW AND IS A CLASS "A" MISDEMEANOR.

**CONTRACT MANUAL  
CONSTRUCTION DOCUMENTS**

DATE: JULY 13, 2016

**ADDENDA/REVISIONS**

NO.	NAME	DATE

THIS DRAWING REFLECTS ALL CHANGES PREVIOUSLY MADE ON THIS SHEET. I VERIFY THAT FEDERAL CHANGES HAVE BEEN INCORPORATED INTO THE CONTRACT BEFORE PROCEEDING WITH ANY WORK NOT SPECIFICALLY REFERENCED BY THE DRAWING.

PROJECT NUMBER	
DESIGNED BY	
DRAWN BY	
CHECKED BY	

PROJECT TITLE:  
**LIBERTY STREET  
CDBG SIDEWALKS**

LOCATION:  
LIBERTY STREET  
CITY OF NEWBURGH  
ORANGE COUNTY, NEW YORK

OWNER:  
CITY OF NEWBURGH

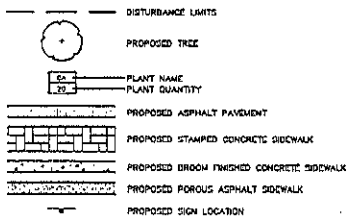
SHEET TITLE:  
**UTILITY AND  
E&S PLAN**

DRAWING NUMBER:  
**C-104**

**Dig Safely.  
New York.**  
■ Call Before You Dig  
■ Mark the Unmarked  
■ Confirm Utility Response  
■ Report the Mark  
■ Dig With Care  
**800-362-7962**  
www.digsafely.com

ALL UTILITIES SHOWN ARE BASED ON RECORD DRAWINGS AND FIELD SURVEY. CONTRACTOR SHALL VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION. SEE SHEET C-104 FOR EROSION & SEDIMENT CONTROL NOTES AND DETAILS.

**LEGEND:**

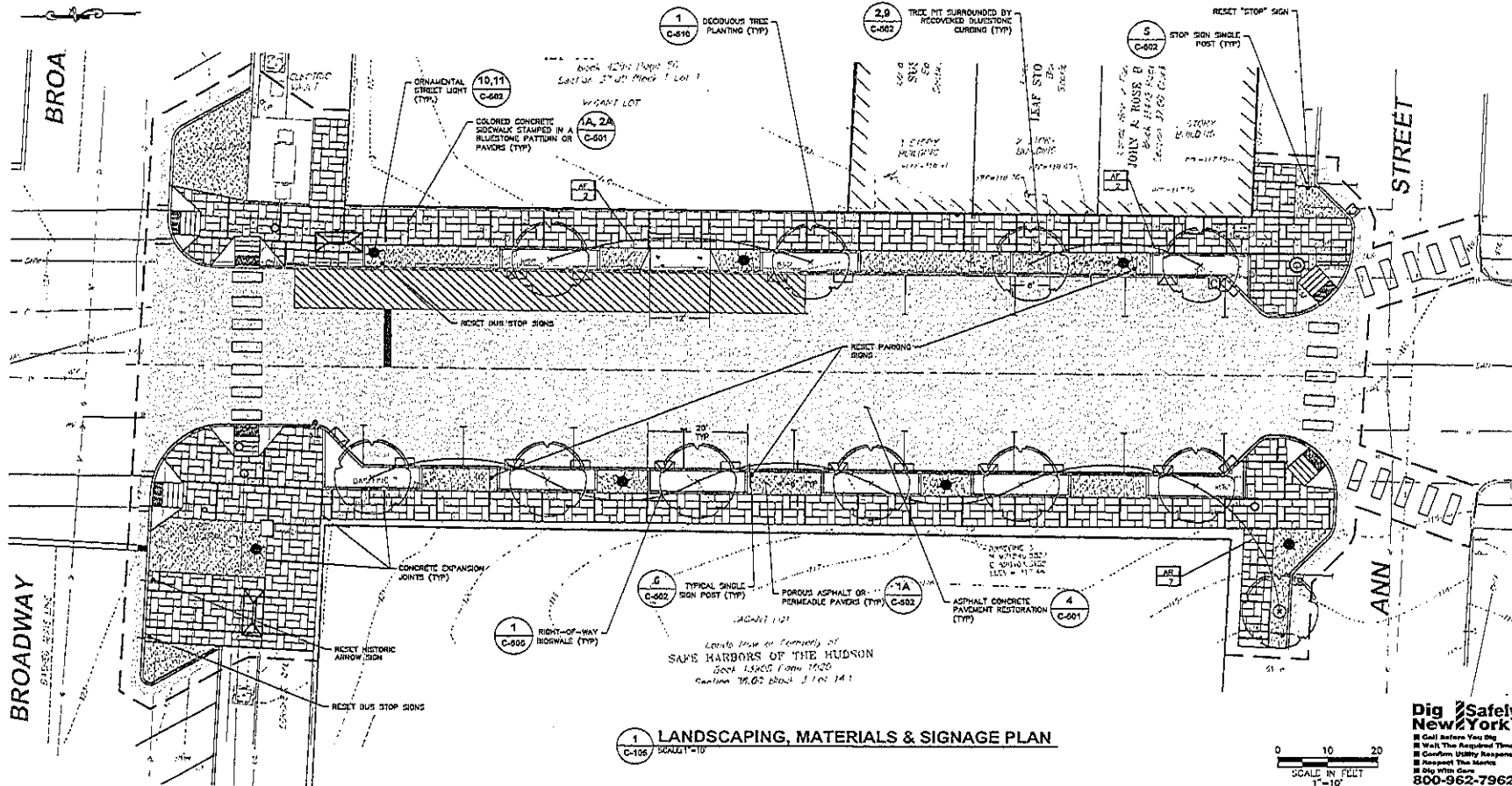


**PLANT LIST**

DETAIL	AMTY	BOTANICAL NAME	COMMON NAME	QTY	SIZE	COND	SPACING	COMMENT
AR	AR	Aspen Treatment "Autumn Blaze"	Autumn Blaze Red Maple	7	3" CAL	B&G	AS SHOWN	SHADE TREE
AZ	AZ	Amelanchier x Autumn Brilliance	Autumn Brilliance Dogwood	4	2-2.75" CAL	R&I	AS SHOWN	ORNAMENTAL TREE (SPM)

**GENERAL NOTES:**

1. SEE SHEET C-510 FOR LANDSCAPING NOTES AND DETAILS.
2. ALL EXISTING SIGNS SHALL BE RESET ON NEW POSTS.



CITY OF NEWBURGH  
 83 BROADWAY  
 NEWBURGH, NY 12550  
 TEL: (845) 569-7300

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**CONTRACT NUMBER**  
**CONSTRUCTION DOCUMENTS**

DATE: **JULY 13, 2016**

**ADDENDA/REVISIONS**

NO.	NAME	DATE

THIS DRAWING REFLECTS ALL CHANGES PREVIOUSLY MADE ON THIS SHEET. VERIFY THAT PREVIOUS CHANGES HAVE BEEN INCORPORATED INTO THE CONTRACT BEFORE PROCEEDING WITH ANY WORK NOT SPECIFICALLY APPROPRIATE BY THIS DRAWING.

PROJECT NUMBER:  
 DESIGNED BY:  
 DRAWN BY:  
 CHECKED BY:

PROJECT TITLE:  
**LIBERTY STREET  
 CDBG SIDEWALKS**

LOCATION:  
 LIBERTY STREET  
 CITY OF NEWBURGH  
 ORANGE COUNTY, NEW YORK

CITY OF NEWBURGH

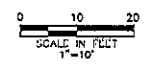
**LANDSCAPING,  
 MATERIALS &  
 SIGNAGE PLAN**

DRAWING NUMBER

**C-105**

SHEET 7 OF 15

**Dig Safely,  
 New York**  
 ■ Call Before You Dig  
 ■ Mark The Required Time  
 ■ Confirm Utility Response  
 ■ Inspect The Marks  
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63 BROADWAY  
NEWBURGH, NY 12550  
TEL: (845) 859-7300

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 1706, SUBSECTION 2 OF THE NEW YORK STATE LAW AND IS A CLASS "A" MISDEMEANOR.

**CONSTRUCTION DOCUMENTS**

DATE: JULY 13, 2016

**ADDENDA/REVISIONS**

NO.	NAME	DATE

THIS DRAWING REFLECTS ALL CHANGES PREVIOUSLY MADE ON THIS SET. VERIFY THAT PREVIOUS CHANGES HAVE BEEN INCORPORATED INTO THE CONTRACT BEFORE PROCEEDING WITH ANY WORK. NOT SPECIFICALLY REFERENCED BY THIS NUMBER.

PROJECT NUMBER	
DRAWN BY	
CHECKED BY	

**LIBERTY STREET CDBG SIDEWALKS**

LOCATION: LIBERTY STREET  
CITY OF NEWBURGH  
ORANGE COUNTY, NEW YORK

CITY OF NEWBURGH

**SITE DETAILS**

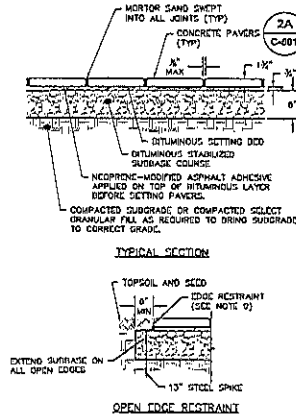
DRAWING NUMBER: **C-501**

SHEET 8 OF 15

**CONCRETE PAVEMENT NOTES:**

- MATERIAL AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JANUARY 1, 2010 AND AS AMENDED THEREAFTER. THE ONLY EXCEPTION BEING THAT THE WORK OF THIS CONTRACT SHALL BE MEASURED IN ENGLISH UNITS.
- ALL WORK SHALL CONFORM WITH SECTION 608-SIDEWALK, DRIVEWAYS, AND BICYCLE PATHS OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
- CONCRETE PAVERS SHALL BE SLATFACE PRACT PAVERS BY HANOVER ARCHITECTURAL PRODUCTS COLORED BLENSTONE (PRODUCT NUM. M2574) OR APPROVED EQUIVALENT.
- MORTAR SAND SHALL BE INSTALLED PER SECTION 608-3.03 OF THE ABOVE REFERENCED NYSDOT STANDARD.
- NEOPRENE-MODIFIED ASPHALT ADHESIVE SHALL CONFORM TO SECTION 608-2.03A OF THE ABOVE REFERENCED NYSDOT STANDARD.
- BITUMINOUS SETTING BED SHALL CONFORM TO SECTION 608-3.03D OF THE ABOVE REFERENCED NYSDOT STANDARD.
- BITUMINOUS STABILIZED SUBBASE MATERIAL SHALL CONFORM WITH SECTION 302 OPTION A OF THE ABOVE REFERENCED NYSDOT STANDARD.
- WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSE OF BRINGING THE SURFACE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 303-EXCAVATION AND CHAMBRAGEMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
- PAVER EDGE RESTRAINT SHALL BE USED ON ALL EDGES THAT ADJUT TURF. EDGE RESTRAINT SHALL BE HANOVER EDGE 100 OR APPROVED EQUAL AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.

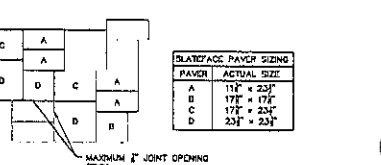
**1A CONCRETE PAVER SIDEWALK DETAIL**  
SCALE: NOT TO SCALE



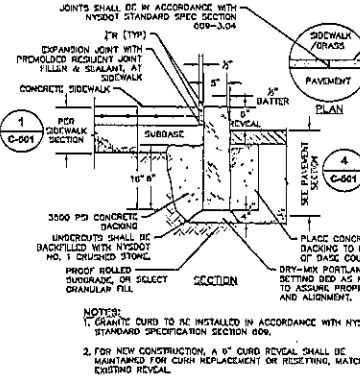
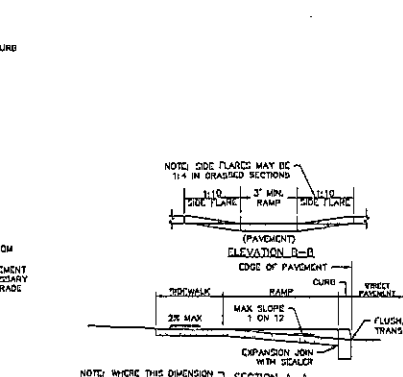
**SIDEWALK NOTES:**

- MATERIAL AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JANUARY 1, 2010 AND AS AMENDED THEREAFTER. THE ONLY EXCEPTION BEING THAT THE WORK OF THIS CONTRACT SHALL BE MEASURED IN ENGLISH UNITS.
- ALL CONCRETE SHALL BE 4000 PSI CLASS A CONCRETE. CONCRETE MATERIALS, PLACEMENT, AND CONSTRUCTION SHALL CONFORM WITH SECTION 500 OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
- REINFORCING STEEL FOR CONCRETE SHALL CONFORM WITH SECTION 556 - REINFORCING STEEL FOR CONCRETE STRUCTURES OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND AS SPECIFICALLY CALLED OUT IN THE DRAWINGS.
- CONCRETE TEXTURE AND STAMP PATTERN SHALL BE 18" X 36" BLENSTONE BY HANOVER ARCHITECTURAL PRODUCTS COLORED BLENSTONE (PRODUCT NUM. M2574) OR APPROVED EQUIVALENT.
- EXPANSION JOINTS SHALL BE LOCATED A MAXIMUM OF 20'-0" ON CENTER, OR AS INDICATED ON PLANS.
- JOINTS SHALL NOT BE SAW CUT.
- SURFACE MATERIAL SHALL CONFORM WITH SECTION 304 OF THE ABOVE REFERENCED NYSDOT STANDARD.
- WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSE OF BRINGING THE SURFACE ELEVATION UP TO A SPECIFIED GRADE, THE FILL MATERIAL PLACED SHALL BE IN CONFORMANCE WITH SECTION 303-EXCAVATION AND CHAMBRAGEMENT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
- ALL WORK SHALL CONFORM WITH SECTION 608-SIDEWALK, DRIVEWAYS, AND BICYCLE PATHS OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.

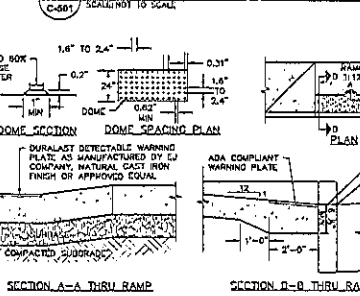
**1 CONCRETE SIDEWALK DETAIL**  
SCALE: NOT TO SCALE



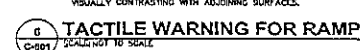
**1A CONCRETE PAVER SIDEWALK DETAIL**  
SCALE: NOT TO SCALE



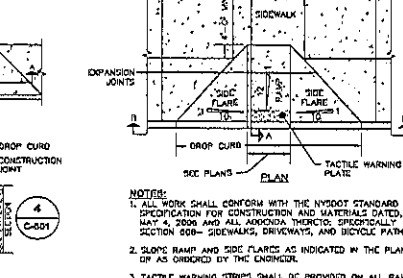
**3 GRANITE CURB @ SIDEWALK**  
SCALE: NOT TO SCALE



**4 TACTILE WARNING FOR RAMPS**  
SCALE: NOT TO SCALE



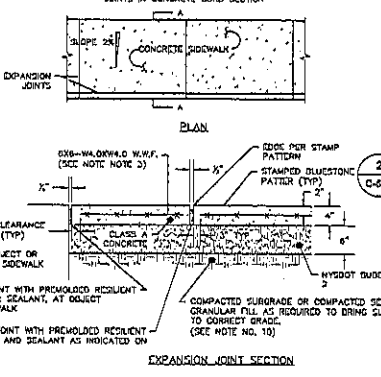
**6 ADA RAMP WITH FLARED SIDE SLOPES**  
SCALE: NOT TO SCALE



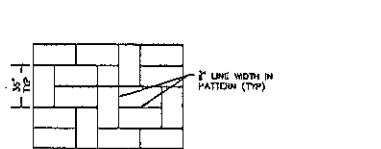
**7 ADA RAMP WITH FLARED SIDE SLOPES**  
SCALE: NOT TO SCALE



**CONCRETE SIDEWALK DETAIL**  
SCALE: NOT TO SCALE

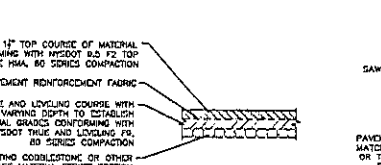


**2 STAMPED BLUESTONE CONCRETE PATTERN**  
SCALE: NOT TO SCALE



NOTES:  
1. CONCRETE TEXTURE AND STAMP PATTERN SHALL BE 18" X 36" BLENSTONE BY HANOVER ARCHITECTURAL PRODUCTS COLORED BLENSTONE (PRODUCT NUM. M2574) OR APPROVED EQUIVALENT.  
2. PATTERN SHOWN IS AN EXAMPLE. PROPOSED PATTERN SHALL BE SUBMITTED DURING SHOP DRAWING REVIEW FOR APPROVAL.

**2 STAMPED BLUESTONE CONCRETE PATTERN**  
SCALE: NOT TO SCALE



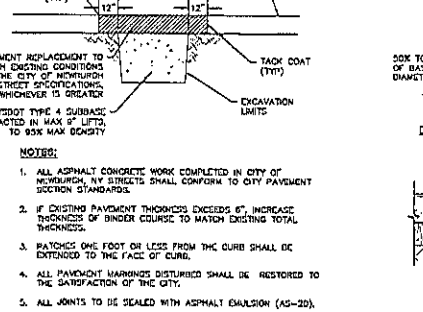
**4 TYPICAL CITY OF NEWBURGH, NY ASPHALT PAVEMENT RESTORATION**  
SCALE: NOT TO SCALE

- MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JANUARY 1, 2010, AND ALL ADDENDA THERETO, THE ONLY EXCEPTION BEING THAT THE WORK OF THIS CONTRACT SHALL BE MEASURED IN ENGLISH UNITS.
- NOT HOT MIX ASPHALT (HMA) PAVEMENT SHALL CONFORM WITH SECTION 402-HOT MIX ASPHALT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS AND THE TYPE CALLED OUT IN THESE DRAWINGS. ALTHOUGH SECTION 400 IN ITS ENTIRETY IS REFERENCED, THE HOT MIX ASPHALT (HMA) PAVEMENT(S) SPECIFIED FOR THIS CONTRACT SHALL BE AS SPECIFIED UNDER SECTION 402-HOT MIX ASPHALT (HMA) PAVEMENTS.
- TACK COAT MATERIAL AND APPLICATION RATE WHEN SPECIFIED OR CALLED OUT IN THESE DRAWINGS OR REQUIRED BY THE REFERENCED SPECIFICATIONS SHALL CONFORM WITH SECTION 407-TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATIONS.
- PAVEMENT REINFORCEMENT FABRIC SHALL BE TENSAR CLASSIC 8501 OR APPROVED EQUIVALENT. FABRIC SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.

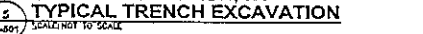
**2A SIDEWALK ALTERNATE CONCRETE PAVERS**  
SCALE: NOT TO SCALE



**3 CITY OF NEWBURGH, NY TYPICAL TRENCH EXCAVATION**  
SCALE: NOT TO SCALE



**5 TYPICAL TRENCH EXCAVATION**  
SCALE: NOT TO SCALE



DATE: 7/13/2016 9:47 AM  
 C:\PROJECTS\LIBERTY STREET CDBG SIDEWALKS\LIBERTY STREET CDBG SIDEWALKS.dwg  
 25-24-AJC-011



CITY OF NEWBURGH  
83 BROADWAY  
NEWBURGH, NY 12550  
TEL: (845) 569-7300

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DIRECTION OF A PROFESSIONAL  
ENGINEER, IS A VIOLATION OF  
SECTION 1203, SUBSECTION 2,  
OF THE NEW YORK STATE LAW AND IS  
A CLASS B MISDEMEANOR.

### CONTRACT PRINCIPAL CONSTRUCTION DOCUMENTS

DATE:  
**JULY 13, 2016**

### ADDENDA/REVISIONS

NO.	NAME	DATE

THIS DRAWING REFLECTS ALL CHANGES  
PREVIOUSLY MADE ON THIS SHEET.  
VERIFY THAT PREVIOUS CHANGES HAVE  
BEEN INCORPORATED INTO THE  
CONTRACT BEFORE PROCEEDING WITH  
ANY WORK NOT SPECIFICALLY  
RESPONSIFIED BY THIS REVISION.

PROJECT NUMBER:  
DESIGNED BY:  
DRAWN BY:  
CHECKED BY:

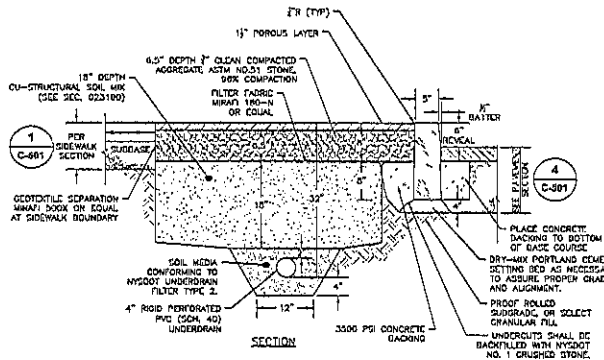
### PROJECT TITLE: LIBERTY STREET CDBG SIDEWALKS

LOCATION:  
LIBERTY STREET  
CITY OF NEWBURGH  
ORANGE COUNTY, NEW YORK

OWNER:  
CITY OF NEWBURGH

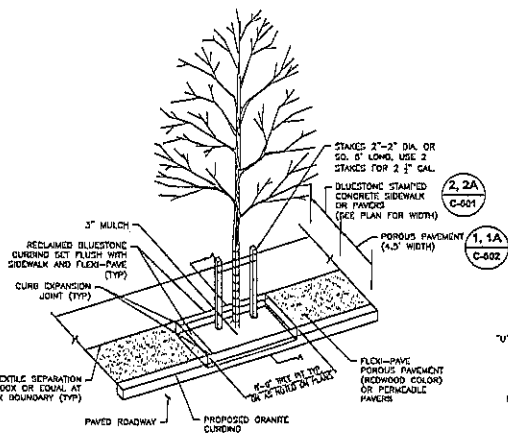
### SHEET TITLE: SITE DETAILS

DRAWING NUMBER:  
**C-502**

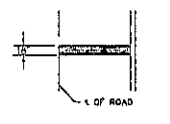


- NOTES:**  
1. POROUS PAVEMENT SHALL BE FLEX-PAVE BY KLEINFELTERS, INC. REDWOOD COLORED OR APPROVED EQUIVALENT.  
2. STRUCTURAL SOIL MIX SHALL CONFORM TO CU-STRUCTURAL SOIL BY CORNELL UNIVERSITY OR APPROVED EQUIVALENT.

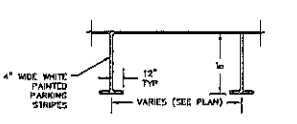
**1 POROUS FLEXIBLE PAVEMENT**  
C-602 SCALE: NOT TO SCALE



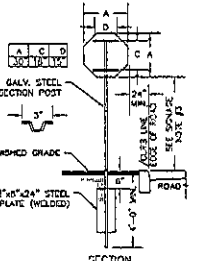
**2 TYPICAL TREE PIT**  
C-602 SCALE: NOT TO SCALE



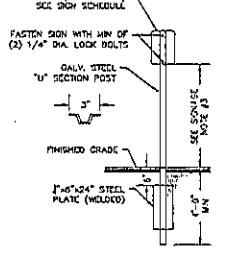
**3 STOP BAR**  
C-602 SCALE: NOT TO SCALE



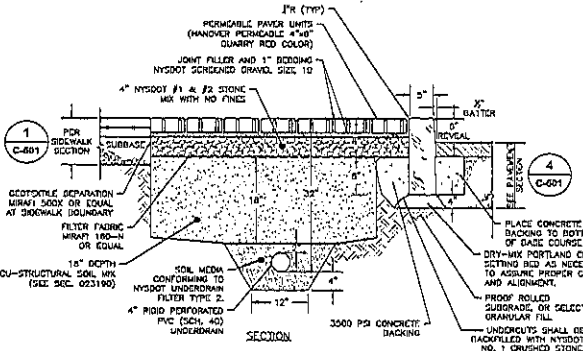
**4 ROADWAY PAVEMENT STRIPING STALLS**  
C-602 SCALE: NOT TO SCALE



**5 SINGLE POST STOP SIGN MOUNTING DETAIL**  
C-602 SCALE: NOT TO SCALE



**6 SINGLE POST SIGN MOUNTING DETAIL**  
C-602 SCALE: NOT TO SCALE

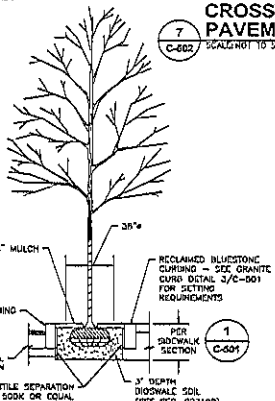


- NOTES:**  
1. PERMEABLE PAVERS SHALL BE HANDOVER PERMEABLE 4"x8" (NOMINAL SIZE), QUARRY RED COLORED LAID IN A RUNNING BOND PATTERN OR APPROVED EQUIVALENT.  
2. STRUCTURAL SOIL MIX SHALL CONFORM TO CU-STRUCTURAL SOIL BY CORNELL UNIVERSITY OR APPROVED EQUIVALENT.

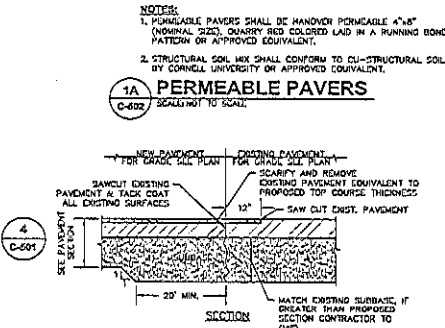
**1A PERMEABLE PAVERS**  
C-602 SCALE: NOT TO SCALE

### 7 CROSSWALK CONTINENTAL PAVEMENT MARKING

C-602 SCALE: NOT TO SCALE



**7 TREE PIT SECTION A-A**  
C-602 SCALE: NOT TO SCALE



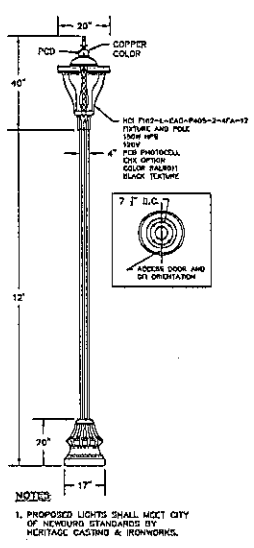
**8 PAVEMENT TRANSITION**  
C-602 SCALE: NOT TO SCALE

LIGHT POLE FOUNDATIONS					
POLE HEIGHT	DIAM.	DEPTH	REIN'	BAR	TIES
45'	18"	5'-0"	(4)#4	(3)#4	(3)#4
35'	24"	5'-0"	(6)#4	(3)#4	(3)#4
30'	24"	5'-0"	(6)#4	(3)#4	(3)#4
25'	24"	6'-0"	(6)#4	(3)#4	(3)#4
20'	24"	6'-0"	(6)#4	(3)#4	(3)#4
15'	24"	7'-0"	(6)#4	(3)#4	(3)#4

- NOTE:**  
1. CONDUITS AND GROUNDING SHALL BE AS SPECIFIED BY MEP ENGINEER.  
2. ALL CONCRETE SHALL BE 3,000 PSI @ 28 DAYS.  
3. DESIGNED FOR 90 MPH WIND WITH FUTURE AREA OF 13 SF.  
4. FOUNDATION DIAMETER AND REINFORCING CIRCLE SHALL BE COORDINATED WITH ANCHOR BOLT LAYOUTS.  
5. FOUNDATIONS SHALL BE CLEAR ON UNDISTURBED NATURAL SOIL OR COMPACTED CRUSHED STONE.  
6. ALL EXCAVATIONS SHALL BE BACKFILLED WITH STRUCTURAL FILL AND COMPACTED TO 95%.  
7. 1/2" MINIMUM MATERIAL THICKNESS.  
8. EXPOSED ANGLE OF CONCRETE AND ONE FOOT MIN BELOW FINISHED GRADE SHALL BE FORMED.

### 10 EXTERIOR MOUNTED LIGHT WITH CONCRETE BASE

C-602 SCALE: NOT TO SCALE

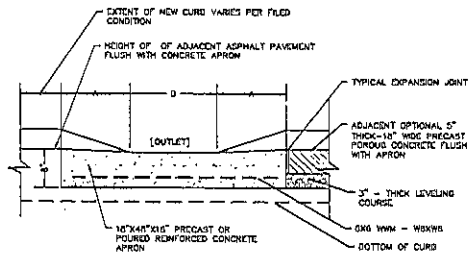


### 11 ORNAMENTAL STREET LIGHT

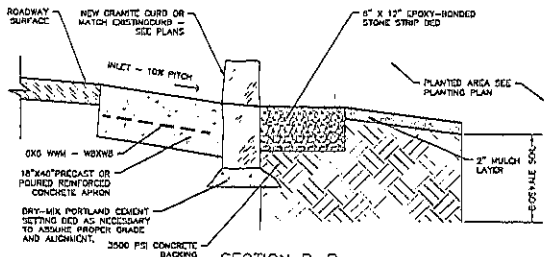
C-602 SCALE: NOT TO SCALE

- NOTE:**  
1. PROPOSED LIGHTS SHALL MEET CITY OF NEWBURGH STANDARDS BY HERITAGE CASTING & IRONWORKS.

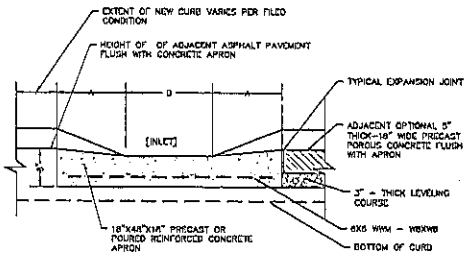
DATE: 7/13/16 2:00 PM  
C:\Users\jg21\OneDrive\Documents\Newburgh\Newburgh\LIBERTY STREET CDBG SIDEWALKS\DWG\C-502.rvt  
SCALE: 1/8"=1'-0" 0:15



SECTION A-A



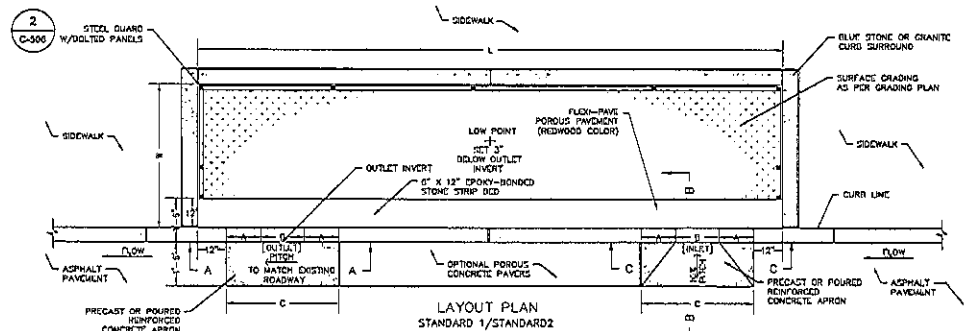
SECTION B-B



SECTION C-C

NOTES:

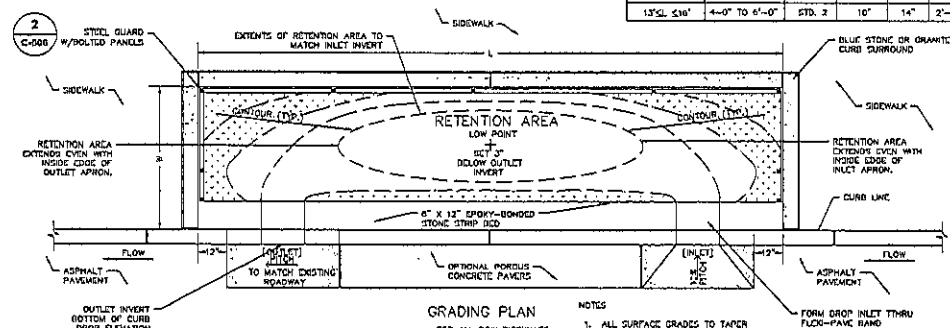
1. SEE SHEET C-506 FOR ADDITIONAL R.O.W. BIOSWALE DETAILS



LAYOUT PLAN  
STANDARD 1/STANDARD2

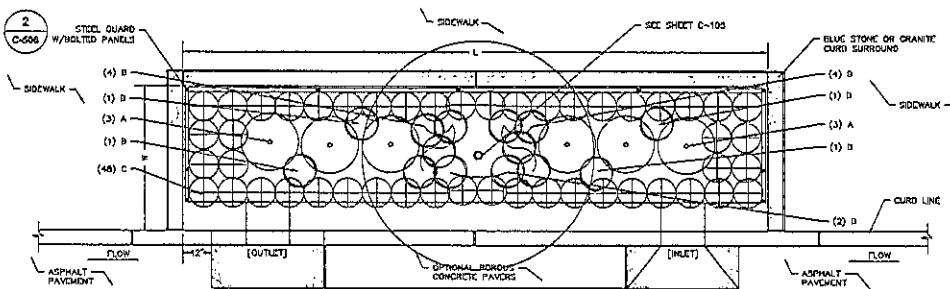
DIMENSION PLAN SCHEDULE

R.O.W. BIOSWALE LENGTH (L) IN FEET	WIDTH (W) OF INBOARDMENT	STANDARD	INLET/OUTLET DIMENSIONS		
			A	D	C
17'-0" - 20'-0"	4'-0" TO 6'-0"	STD. 1	14"	18"	3'-10"
17'-0" - 20'-0"	4'-0" TO 6'-0"	STD. 2	10"	14"	2'-10"



GRADING PLAN  
FOR ALL R.O.W. BIOSWALES  
L = 17' OR GREATER

NOTES:  
1. ALL SURFACE GRADES TO TAPER TOWARD THE LOW POINT  
2. CONTOUR LINES SHOWN ON THIS PLAN ARE SCHEMATIC ONLY AND DEPEND ON THE ACTUAL STREET GRADE ADJACENT TO THE BIOSWALE



PLANTING PLAN  
FOR ALL R.O.W. BIOSWALES  
L = 17' OR GREATER

ID#	PLANT CODE	TYPE	SYMBOL	PLANTAL NAME	COMMON NAME	SIZE	SPACING
8	A	Tree	8250	REDWOOD TREES	REDWOOD	12" O.G.	12' O.G.
12	B	Shrub	8250	REDWOOD TREES	REDWOOD	12" O.G.	12' O.G.
48	C	Grass	8250	REDWOOD TREES	REDWOOD	12" O.G.	12' O.G.

1 R.O.W. BIOSWALE  
SCALE NOT TO SCALE



CITY OF NEWBURGH  
63 BROADWAY  
NEWBURGH, NY 12550  
TELL (845) 669-7300

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 2090, SUBDIVISION 2, OF THE NEW YORK STATE LAW AND IS A CLASS 'M' VIOLATION.

CONTRACT NUMBER  
**CONSTRUCTION DOCUMENTS**

DATE  
**JULY 13, 2016**

ADDENDAS/REVISIONS

NO.	NAME	DATE

THIS DRAWING REFLECTS ALL CHANGES PREVIOUSLY MADE ON THIS SHEET. VERIFY THAT PREVIOUS CHANGES HAVE BEEN INCORPORATED INTO THIS CONTRACT BEFORE PROCEEDING WITH ANY WORK NOT SPECIFICALLY REFERENCED BY THIS REVISION.

PROJECT NUMBER:   
 DESIGNED BY:   
 DRAWN BY:   
 CHECKED BY:

PROJECT TITLE:   
**LIBERTY STREET  
CDBG SIDEWALKS**

LOCATION:   
**LIBERTY STREET  
CITY OF NEWBURGH  
ORANGE COUNTY, NEW YORK**

OWNER:   
**CITY OF NEWBURGH**

SHEET TITLE:

DRAWING NUMBER:

PL 11/15/15, 1:15 P.M.  
CITY ENGINEER: Thomas Deane, Mayor/Chairman of Street, Bioswale & Sidewalks Task Force  
2015 11/15/15





CITY OF NEWBURGH  
 63 BROADWAY  
 NEWBURGH, NY 12550  
 TEL: (845) 500-7300

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7-06, SUBDIVISION 2, OF THE NEW YORK STATE LAW AND IS A CAUSE FOR REVERSAL.

CONSTRUCTION DOCUMENTS

DATE: JULY 13, 2016

ADDENDA/REVISIONS

NO.	NAME	DATE

THIS DRAWING REFLECTS ALL CHANGES PREVIOUSLY MADE ON THIS SHEET, EXCEPT THAT PREVIOUS CHANGES HAVE BEEN INCORPORATED INTO THE CONTRACT WORKS PROCEEDINGS WITH ANY WORK NOT SPECIFICALLY REPRESENTED BY THIS REVISION.

PROJECT NUMBER:  
 DESIGNED BY:  
 DRAWN BY:  
 CHECKED BY:

PROJECT TITLE:  
**LIBERTY STREET  
 CDBG SIDEWALKS**

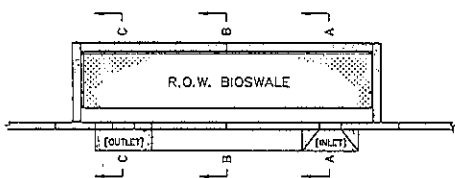
LOCATION:  
 LIBERTY STREET  
 CITY OF NEWBURGH  
 ORANGE COUNTY, NEW YORK

DRAWN BY:  
 CITY OF NEWBURGH

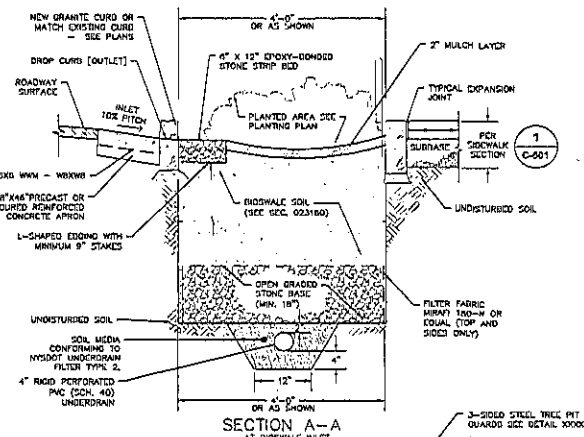
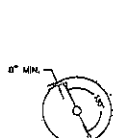
SHEET TITLE:  
**BIOSWALE  
 DETAILS**

DRAWING NUMBER:  
**C-506**

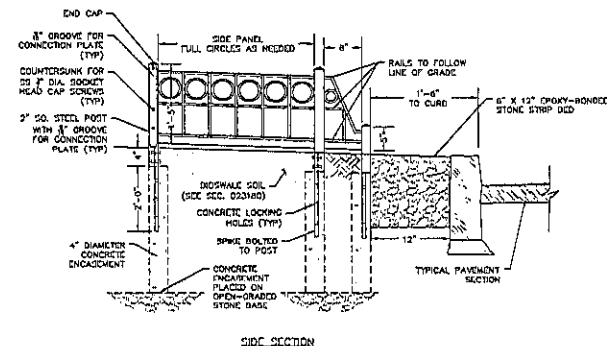
SHEET 11 OF 15



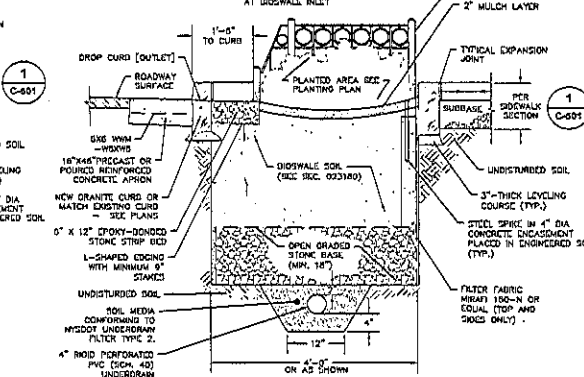
DEPTH SCHEDULE		
R.O.W. BIOSWALE	A	D
Ø TREE LOCATION	30"	24" MIN
REMARKS AREA	24"	18" MIN



SECTION A-A  
 AT BIOSWALE INLET

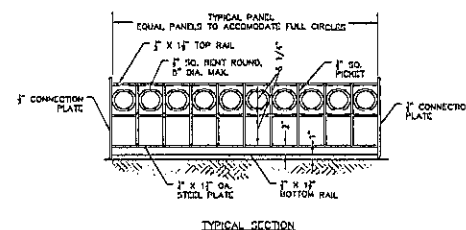


SIDE SECTION



SECTION B-B  
 AT MIDSECTION (LOWEST POINT)

SECTION C-C  
 AT BIOSWALE OUTLET



TYPICAL SECTION

1 R.O.W. BIOSWALE SECTIONS  
 SCALE: NOT TO SCALE

2 R.O.W. BIOSWALE FENCE  
 SCALE: NOT TO SCALE

- NOTES:**
- ALL STEEL SHALL CONFORM TO ASTM-A36 SPECIFICATION.
  - ALL JOINTS TO BE WELDED UNLESS NOTED OTHERWISE.
  - ALL POST AND GROOVE CONNECTIONS TO BE BOLTED.
  - ALL WOOD BOLTS TO BE COUNTERSUNK AND FLASHED WITH THE POSTS.
  - ALL STEEL TO BE PAINTED WITH ONE SHOP COAT OF PRIMER AND ONE SHOP COAT OF INTERMEDIATE AND ONE SHOP COAT (OR ROLLED FIELD COAT) OF FINISH TOP COAT. THE COLOR OF TOP COAT SHALL BE BLACK. ALL COMPONENTS OF PAINT SHALL BE COMPATIBLE AND SUPPLIED BY A SINGLE MANUFACTURER. ALL PAINT SHALL BE APPLIED IN COMPLIANCE WITH MANUFACTURER'S DATA SHEETS. PRIOR TO FIELD PAINTING, THE SURFACES TO BE PAINTED SHALL BE CLEAN, DRY AND LIGHTLY SANDPAPERED.
  - RAILS TO FOLLOW LINE OF GRADE.
  - ALL SPIKES OF TREE FENCING TO BE EMBEDDED IN CONCRETE PER DETAIL.

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 12/13/13 10:28:18  
 12/13/13 10:28:18

**VEGETATIVE COVER SPECIFICATIONS:**

**PERMANENT VEGETATIVE COVER (AFTER CONSTRUCTION):**

1. SITE PREPARATION
    - A. SPRING AREA TO BE SEEDCO TO REQUIRED GRADE. A MINIMUM OF 4" OF TOPSOIL IS REQUIRED.
    - B. PREPARE SEEDBED BY LOOSENING SOIL TO A DEPTH OF 4 INCHES.
    - C. REMOVE ALL STONES OVER 1 INCH IN DIAMETER, STICKS AND FOREIGN MATTER FROM THE SURFACE.
    - D. LIME TO PH 5.5.
    - E. FERTILIZER USE 5-10-5 (NPK) OR EQUIVALENT, APPLY AT RATE OF 4 LBS/1000 SF.
    - F. INCORPORATE LIME AND FERTILIZER IN THE TOP 4 INCHES OF TOPSOIL.
    - G. SMOOTH AND FIRM THE SEEDBED.
  2. SEED MIXTURE FOR USE ON LAWN AREAS:
    - A. PROVIDE FRESH, CLEAN, NEW-CROP SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECIES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARDS.
- | AMOUNT BY WEIGHT | SPECIES OR VARIETY | MINIMUM % | PURITY | GERMINATION |
|------------------|--------------------|-----------|--------|-------------|
| 40%              | PERENNIAL RYE      | 98%       | 90%    |             |
| 25%              | RED FESCUE         | 97%       | 85%    |             |
| 10%              |                    |           |        |             |
3. SEEDING
    - A. APPLY SEED UNIFORMLY BY CYCLOPE SCEDOR CULT-PACKER OR HYDRO-SEEDER AT RATE INDICATED.
    - B. ALL SEEDCO AREAS SHALL BE PROTECTED FROM EROSION BY ONE OF THE FOLLOWING METHODS:
      1. A UNIFORM BLANKET OF STRAW APPLIED AT A RATE OF 2 TONS/ACRE MIN., TO BE APPLIED ONCE SEEDING IS COMPLETE.
      2. WOOD FIBER CELLULOSE APPLIED WITH SEED MIX BY HYDROSEEDER AT RATE OF 2,000 LBS/ACRE.
      3. ALL SEEDCO SLOPES 3:1 OR GREATER SHALL BE PROTECTED FROM EROSION WITH JUTE MESH OR APPROVED EQUAL.
      4. IRRIGATE TO FULLY SATURATE SOIL LAYER, BUT NOT TO DISRUPT PLANTING SOIL.
      5. UNLESS OTHERWISE DIRECTED IN WRITING, SEED FROM MARCH 15TH TO JUNE 15TH, AND FROM AUGUST 15TH TO OCTOBER 15TH.

**TOPSOIL SPECIFICATIONS:**

1. EXISTING EXCESS TOPSOIL SHALL BE REMOVED AND STORED IN TOPSOIL STORAGE SUFFICIENTLY REMOVED FROM OTHER EXCAVATION OR DISTURBANCE TO AVOID MIXING. SALT FENCE SHALL BE INSTALLED AROUND TOPSOIL STORAGE AREAS.

**SOIL PREPARATION:**

1. COMPLETE ROUGH GRADING AND FINAL GRADE, ALLOWING FOR DEPTH OF TOPSOIL TO BE ADDED.
2. SCARIFY ALL CONTACT, SLOPEY PERMEABLE, MEDIUM AND FINE TEXTURED SUBSOIL AREAS, SCARIFY AT APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION IN SOIL AREAS THAT ARE STEEPER THAN 3:1.
3. REMOVE REFUSE, WOODY PLANT PARTS, STONES OVER 3 INCHES IN DIAMETER, AND OTHER LITES.

**TOPSOIL MATERIAL:**

1. NEW TOPSOIL SHALL BE BETTER THAN OR EQUAL TO THE QUALITY OF THE EXISTING ADJACENT TOPSOIL. IT SHALL MEET THE FOLLOWING CRITERIA:
  - A. ORIGINAL LOAM TOPSOIL, WELL DRAINED HOMOGENEOUS TEXTURE AND OF UNIFORM GRADE, WITHOUT THE ADMIXTURE OF SUBSOIL MATERIAL AND FREE OF BENE MATERIAL, HARDPAN, CLAY, STONES, SOIL OR OTHER OBJECTIONABLE MATERIAL.
  - B. CONTAINING NOT LESS THAN 5% NOR MORE THAN 20% ORGANIC MATTER IN THAT PORTION OF A SAMPLE PASSING A 1/4" SIEVE WHEN DETERMINED BY THE WET COMBUSTION METHOD ON A SAMPLE DRIED AT 105°.
  - C. CONTAINING A PH VALUE WITHIN THE RANGE OF 6.5 TO 7.5 ON THAT PORTION OF THE SAMPLE WHICH PASSED A 1/4" SIEVE.
  - D. CONTAINING THE FOLLOWING WASHED GRADATIONS:
 

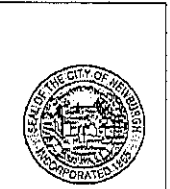
SIEVE DESIGNATION	% PASSING
100	97-100
1/4"	20-60
NO 200	

**APPLICATION AND GRADING:**

1. TOPSOIL SHALL BE DISTRIBUTED TO A UNIFORM DEPTH OF 4" OVER THE AREA. IT SHALL NOT BE PLACED WHEN IT IS PARTLY FROZEN, SLUDGY, OR ON FROZEN SLOPES OR OVER ICE, SNOW, OR STANDING WATER.
2. TOPSOIL PLACED ON SLOPES STEEPER THAN 3:1 SHALL BE PROPERLY FERTILIZED, SEEDCO, MULCHED AND STABILIZED BY "TRACKING" WITH SUITABLE EQUIPMENT.

**GENERAL LANDSCAPING NOTES:**

1. THE LANDSCAPE CONTRACTOR SHALL CAREFULLY COORDINATE CONSTRUCTION ACTIVITIES WITH THAT OF THE EARTHWORK CONTRACTOR AND OTHER SITE DEVELOPMENT.
2. THE CONTRACTOR SHALL VERIFY DRAWING DIMENSIONS WITH ACTUAL FIELD CONDITIONS AND INSPECT RELATED WORK AND ADJACENT SURFACES. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL FINISH GRADES WITHIN THE WORK AREA. THE CONTRACTOR SHALL REPORT TO THE CITY ENGINEER ALL CONDITIONS WHICH PREVENT PROPER EXECUTION OF THIS WORK.
3. THE EXACT LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND UNDERGROUND UTILITIES, WHICH MAY NOT BE INDICATED ON THE DRAWINGS, SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITY SERVICES AND IS RESPONSIBLE FOR THEIR REPLACEMENT IF DAMAGED.
4. THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM RUBBISH AND ALL DEBRIS AT ALL TIMES AND SHALL ARRANGE MATERIAL STORAGE SO AS NOT TO INTERFERE WITH THE OPERATION OF THE PROJECT. ALL UNUSED MATERIALS, RUBBISH AND DEBRIS SHALL BE REMOVED FROM THE SITE.
5. NO TREES OR SHRUBS SHALL BE PLANTED ON EXISTING OR PROPOSED UTILITY LINES.
6. QUALITY ASSURANCE
  - A. NONGERMINATED PLANT NAMES SHALL CONFORM TO THE LATEST EDITION OF "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE.
  - B. SIZE AND GRADING PLANT SIZES AND GRADING SHALL CONFORM TO THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" AS SPONSORED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC (AAN), UNLESS OTHERWISE SPECIFIED.
  - C. NURSERY SOURCED, OBTAIN FRESHLY GUG, HEALTHY, WOODLESS PLANTS NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR A MINIMUM OF 2 YEARS. PLANTS SHALL HAVE BEEN LINED OUT IN ROWS, ANNUALLY CULTIVATED, SPRAYED, PRUNED AND FERTILIZED IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. ALL PLANTS SHALL HAVE BEEN TRANSPORTED OR ROOT PRUNED AT LEAST ONCE IN THE PAST 3 YEARS. BALLED AND UNBALLED PLANTS MUST COME FROM SOIL WHICH WILL HOLD A FIRM ROOT BALL. LITLED IN PLANTS AND PLANTS FROM COLD STORAGE ARE NOT ACCEPTABLE.
  - D. SUBSTITUTIONS DO NOT MAKE SUBSTITUTIONS OF TREES AND/OR SHRUB MATERIALS, IF REQUIRED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY AND PROPOSAL FOR USE OF EQUIVALENT MATERIAL, WHEN AUTHORIZED, ADJUSTMENTS OF CONTRACT AMOUNT (IF ANY) WILL BE MADE BY CHANGE ORDER.
7. SEEDING & PLANTING SEASONS AND TIMING CONDITIONS:
  - A. UNLESS OTHERWISE DIRECTED IN WRITING, SEED LAYING FROM MARCH 15 TO JUNE 15, AND FROM AUGUST 15 TO OCTOBER 15.
  - B. UNLESS OTHERWISE DIRECTED IN WRITING, PLANT TREES AND SHRUBS FROM MARCH 15 TO JUNE 1, AND FROM AUGUST 15 TO OCTOBER 30.
8. AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE LAYING OR PLANTING ARE TO BE ESTABLISHED AND WORK IS COMPLETE, SHALL BE COVERED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE. WORK SHALL BE WITHIN THE SEASONAL LIMITATIONS FOR EACH KIND OF LANDSCAPE WORK REQUIRED. PROVIDE STABILIZATION WITH TEMPORARY VEGETATIVE COVER (TOPSOIL AND TEMPORARY COVER SEED MIX) WITHIN 14 DAYS AFTER WORK IS COMPLETE. FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.
  6. DECORATION:
    - A. LANDSCAPE WORK SHALL BE UNDERTAKEN AS SOON AS SITE AREAS ARE AVAILABLE.
    - B. TOPSOIL SHALL BE SPREAD NO LESS THAN 4" OVER SUB-GRADE MATERIAL. SOIL AMENDMENTS SHALL BE THOROUGHLY MIXED INTO THE TOP 4" OF TOPSOIL, FOLLOWING THE SPECIFICATIONS STATED BELOW.
    - C. PERFORM FINE GRADING TO FINISHED ELEVATION ONLY IMMEDIATELY PRIOR TO PLANTING. PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN SURFACE, FREE OF DEPRESSIONS OR RIDGES WITH A UNIFORM LOOSE, FINE TEXTURE.
    - D. FERTILIZING:
      1. THE SOIL SHALL BE TESTED FOR PH AND LIME ADDED AS NECESSARY. ALL AMENDMENTS SHALL BE CHECKED AND APPROVED BY LANDSCAPE ARCHITECT BEFORE AMENDMENTS ARE MADE.
      2. APPLY FERTILIZER AT RATE OF 4 LBS/1000 SF FOR LAWN AREAS.
  9. LAWN:
    1. LAWN SEED MIX BEED AT THE RATE OF 5 TO 6 LBS PER 1,000 SF.
  7. ALL SEEDCO AREAS SHALL BE PROTECTED FROM EROSION BY ONE OF THE FOLLOWING METHODS:
    1. A UNIFORM BLANKET OF STRAW APPLIED AT A RATE OF 2 TONS/ACRE MIN., TO BE APPLIED ONCE SEEDING IS COMPLETE.
    2. WOOD FIBER CELLULOSE APPLIED WITH SEED MIX BY A HYDROSEEDER AT A RATE OF 2,000 LBS/ACRE.
    3. ALL SEEDCO SLOPES 3:1 OR GREATER SHALL BE PROTECTED FROM EROSION WITH JUTE MESH OR APPROVED EQUAL.
  8. ALL NEWLY PLANTED AREAS SHALL BE KEPT MOIST BY WATERING UNTIL GRASSES AND GROUND COVERS ARE WELL ESTABLISHED. THE LANDSCAPE CONTRACTOR MUST WATER PLANT MATERIAL WHEN NECESSARY FOR 60 DAYS AFTER INSTALLATION.
  9. LAWNS ARE TO BE WARRANTED UNTIL THEY BECOME ESTABLISHED, UNTIL FINAL ACCEPTANCE, AND NOT LESS THAN 60 DAYS AFTER COMPLETION OF ALL WORK. TREES, SHRUBS, BROWN COVERS, AND PERENNIALS SHALL BE WARRANTED AGAINST DEFECTS INCLUDING POOR GROWTH AND DEATH, EXCEPT WHEN RESULTING FROM OWNERS' NEGLECT, INSECTS THAT ARE BEYOND THE CONTROL OF THE LANDSCAPE INSTALLER AND DAMAGE OR ABUSE BY OTHERS, FOR AT LEAST ONE FULL YEAR AFTER PROJECT COMPLETION.



CITY OF NEWBURGH  
 13 BROADWAY  
 NEWBURGH, NY 12560  
 TEL: (845) 560-7300

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 208, SUBSECTION 4 OF THE NEW YORK STATE LAW AND IS A CRIME BY HARBORING.

**CONSTRUCTION DOCUMENTS**

DATE: **JULY 13, 2016**

**ADDENDA/REVISIONS**

NO.	NAME	DATE

THIS DRAWING REFLECTS ALL CHANGES PREVIOUSLY MADE ON THIS SHEET. VERIFY THAT PREVIOUS CHANGES HAVE BEEN INCORPORATED INTO THE CONTRACT BEFORE PROCEEDING WITH ANY WORK NOT SPECIFICALLY REFERENCED BY THIS DRAWING.

PROJECT NUMBER	
DRAWN BY	
CHECKED BY	

**PROJECT TITLE:**  
**LIBERTY STREET**  
**CDBG SIDEWALKS**

**LOCATION:**  
 LIBERTY STREET  
 CITY OF NEWBURGH  
 ORANGE COUNTY, NEW YORK

**OWNER:**  
 CITY OF NEWBURGH

**SHEET TITLE:**  
**LANDSCAPING**  
**NOTES AND**  
**DETAILS**

**DRAWING NUMBER:**  
**C-510**



CITY OF NEWBURGH  
83 BROADWAY  
NEWBURGH, NY 12550  
TEL: (845) 569-7500

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 1209, SUBSECTION 2, OF THE NEW YORK STATE LAW AND IS A CLASS "A" MISDEMEANOR.

CONSTRUCTION DOCUMENTS

DATE: JULY 13, 2016

ADDENDA/REVISIONS

NO.	NAME	DATE

THIS DRAWING REFLECTS ALL CHANGES PREVIOUSLY MADE ON THIS SPECIFICATION THAT PREVIOUS ENGINEERS HAVE BEEN INCORPORATED INTO THIS CONTRACT. REVISIONS PROCESSED WITH ANY WORK NOT SPECIFICALLY RESPONDED TO BY THE INDUSTRY.

PROJECT NUMBER
DRAWN BY
CHECKED BY

PROJECT TITLE:  
**LIBERTY STREET  
CDBG SIDEWALKS**

LOCATION:  
**LIBERTY STREET  
CITY OF NEWBURGH  
ORANGE COUNTY, NEW YORK**

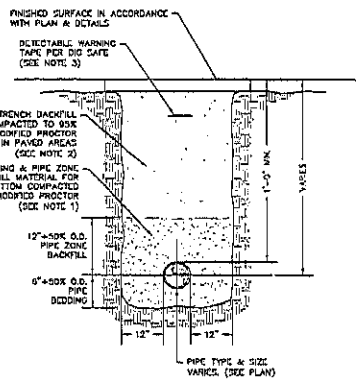
OWNER:  
**CITY OF NEWBURGH**

SHEET TITLE:

**UTILITY  
DETAILS**

DRAWING NUMBER:

**C-515**



**1 PIPE TRENCH DETAIL (TYPICAL)**  
SCALE: NOT TO SCALE

- NOTES:**
- PIPE BEDDING & PIPE ZONE BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) SAND OR A MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. BEDDING GRADATIONS SHALL BE APPROVED BY THE CITY ENGINEER AND/OR PLUMBING INSPECTOR AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:  

SIEVE DESIGNATION	% PASSING
3/4"	100%
NO. 40	0-70%
NO. 200	0-10%
  - TRENCH BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) OR PROCESSED GRAVEL OR ENHANCED MATERIAL FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. TRENCH BACKFILL GRADATIONS SHALL BE APPROVED BY THE CITY ENGINEER AND/OR PLUMBING INSPECTOR AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:  

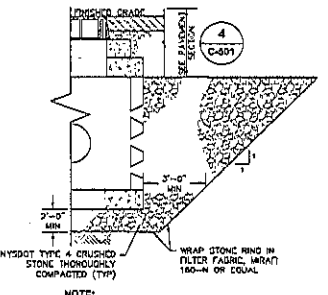
SIEVE DESIGNATION	% PASSING
3/4"	100%
NO. 40	0-70%
NO. 200	0-10%
  - IN UNPAVED AREAS TRENCH BACKFILL MAY BE MATERIALS EXCAVATED FROM THE TRENCH AS APPROVED BY THE ENGINEER.
  - INSTALL CONTINUOUS DETECTABLE MARKING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND PIPING. LOCATE TAPE 12" BELOW FINISHED GRADE, DIRECTLY OVER PIPING, EXCEPT 6" BELOW SUBGRADE UNDER PAVEMENTS & SLAB.
  - TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH OSHA STANDARDS.

**ACCEPTABLE MANHOLE STEPS**

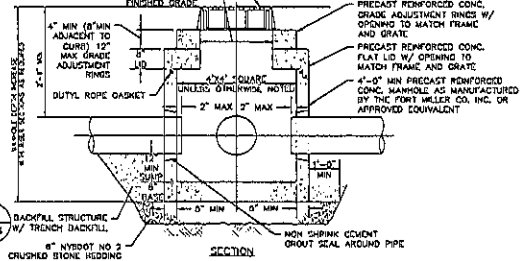
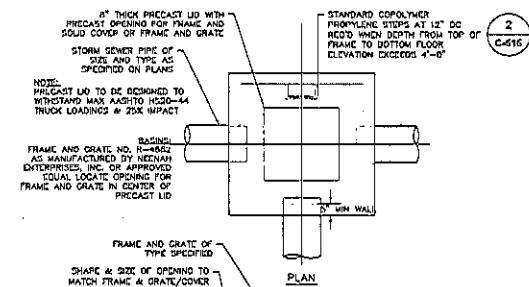
MANUFACTURER	PATTERN NUMBER	STEP WIDTH	STEP HEIGHT	STEP LENGTH	STEP RADIUS	STEP CLEARANCE
M.A. INDUSTRIES INC.	PSS-NY	15 7/16"	9 3/8"	14"	3 3/8"	6"
M.A. INDUSTRIES INC. OR EQUIVALENT	PSS-PSS	15 7/16"	8 1/2"	14"	3 3/8"	5 1/8"

NOTE:  
1. MAX STEP DESIGN AND INSTALLATION SHALL COMPLY WITH ALL OSHA REGULATIONS.  
2. CAST IN PLACE OR PRESS FIT ACCEPTABLE.

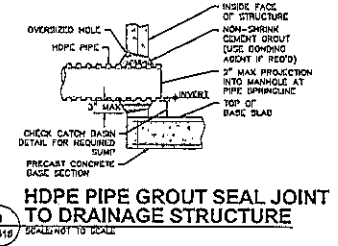
**2 COPOLYMER POLYPROPYLENE MH STEP**  
SCALE: NOT TO SCALE



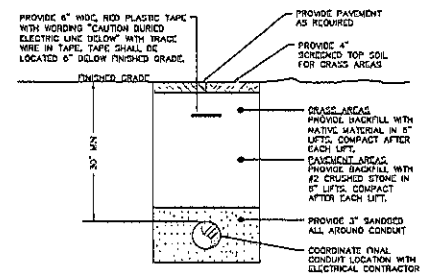
**4 PRECAST DRYWELL**  
SCALE: NOT TO SCALE



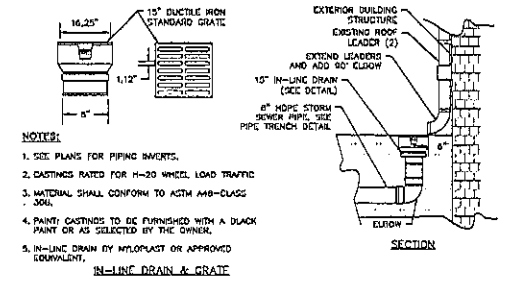
**5 PRECAST CONCRETE BASIN**  
SCALE: NOT TO SCALE



**3 HDPE PIPE GROUT SEAL JOINT TO DRAINAGE STRUCTURE**  
SCALE: NOT TO SCALE



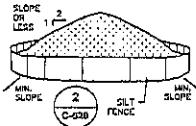
**6 DIRECT BURIED CONDUIT DETAIL**  
SCALE: NOT TO SCALE



**7 ROOF LEADER IN-LINE DRAIN CONNECTION**  
SCALE: NOT TO SCALE

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DRAWN BY: C-515  
CHECKED BY: C-515

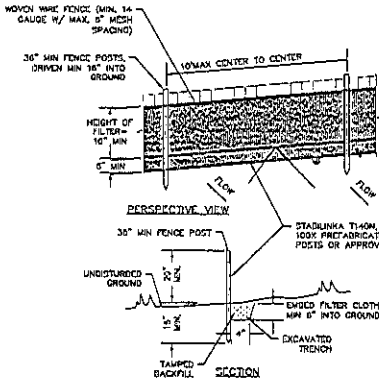




**NOTES:**

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2H.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, WHICH STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.

**1** **TEMPORARY SOIL STOCKPILE**  
C-526 SCALE: NOT TO SCALE



**NOTES:**

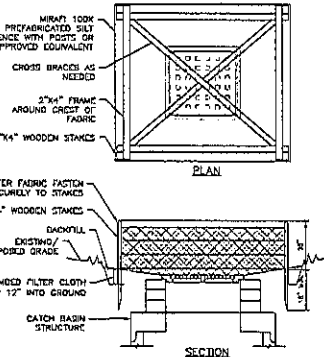
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE NETS OR STAPLES. POSTS SHALL BE STEEL "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 2' AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 5" MAX MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIALS REMOVED WHEN "BUNDLES" DEVELOP IN THE SILT FENCE.
5. MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED 1/4 ACRE PER 100 FEET OF FENCE.
6. SILT FENCE SHALL BE USED WHERE EROSION COULD OCCUR IN THE FORM OF SHEET EROSION.
7. SILT FENCE SHALL NOT BE USED WHEN A CONCENTRATION OF WATER IS FLOWING TO THE BARRIER.
8. MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUN-OFF TO A SILT FENCE ARE:

SLOPE STEEPNESS	MAXIMUM SLOPE LENGTH (FT)
1/1	25
1/2	50
2/1	75
3/1 OR FLATTER	100

**2** **SILT FENCE INSTALLATION**  
C-526 SCALE: NOT TO SCALE

**CONSTRUCTION SEQUENCING NOTES:**

1. PRIOR TO COMMENCING ANY CLEARING, GRADING, EARTHWORK ACTIVITIES, ETC. AT THE SITE, THE CONTRACTOR SHALL FLAG THE WORK LIMITS AND SHALL INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCES, TREE PROTECTION/BARRIER FENCES, STABILIZED CONSTRUCTION ENTRANCES, STORM DRAIN SEDIMENT FILTERS, DRAINAGE DITCH SEDIMENT FILTERS, ETC.) INDICATED ON THE PROJECT DRAWINGS AND AS REQUIRED. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THEIR THREATENED AREAS. SILT FENCE SHALL BE INSTALLED AROUND STAGING AREA.
2. THE CONTRACTOR SHALL COMMENCE SITE CONSTRUCTION ACTIVITIES INCLUDING CLEARING & GRADING OF THE PROPOSED AREA OF DISTURBANCE AS REQUIRED.
3. INSTALL PROTECTIVE MEASURES AT THE LOCATIONS OF ALL GREAT INLETS, CURB INLETS, AND AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES.
4. CONSTRUCT ALL UTILITIES, CURBS AND GUTTERS, GUTTER INLETS, AREA INLETS, AND STORM SEWER MANHOLES, AS SHOWN ON THE PLANS. INLET PROTECTION MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION.
5. FINALIZE PAVEMENT SUB-GRADE PREPARATION.
6. PROVIDE PROTECTIVE MEASURES AROUND INLETS AND MANHOLES NO MORE THAN 24 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
7. INSTALL SUB-BASE MATERIAL AS REQUIRED FOR PAVEMENT.
8. PRIOR TO FINALIZING CONSTRUCTION, ALL CATCH BASINS AND DRAINAGE LINES SHALL BE CLEANING OF ALL SILT AND SEDIMENT.
9. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND IMMEDIATELY ESTABLISH PERMANENT VEGETATION ON THE AREAS DISTURBED DURING THEIR REMOVAL AND STAGING AREA.



**NOTES:**

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-60.
2. CUT FABRIC FROM CONTINUOUS ROLL TO ELIMINATE JOINTS, IF JOINTS ARE NEEDED, OVERLAP TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2"x4" WOOD OR EQUIVALENT, WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE MINIMUM 18" DEEP. SPACES GREATER THAN 3 FEET MAY BE GROGGED WITH THE USE OF WIRE MESH BONDING FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EXCEEDED 1 FOOT MINIMUM BELOW GROUND AND WADGLED, IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2"x4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVERFLOW STABILITY.
7. MAXIMUM DRAINAGE AREA IS 1 ACRE.
8. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL SITE HAS BEEN STABILIZED.

**3** **TEMPORARY OUT OF PAVEMENT FILTER FABRIC DROP INLET PROTECTION**  
C-526 SCALE: NOT TO SCALE

**GENERAL EROSION AND SEDIMENT CONTROL NOTES:**

1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, AUGUST 2005.
2. EXPOSED SOIL TO BE STOCKPILED WITHIN THE LIMITS OF SITE DISTURBANCE IF NOT USED IMMEDIATELY FOR CHANGING PURPOSES. INSTALL SILT FENCE AROUND SOIL STOCKPILES.
3. APPLY SURFACE STABILIZATION AND RESTORATION MEASURES. AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHICH WERE 1) DELAYED, 2) SUSPENDED, OR 3) INCOMPLETE AND WILL NOT BE RESTORED FOR 21 DAYS OR MORE SHALL BE STABILIZED WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED. (SEE SPECIFICATIONS FOR TEMPORARY VEGETATIVE COVER). AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS COMPLETE AND WILL NOT BE RESTORED SHALL BE STABILIZED AND RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE. (SEE SPECIFICATIONS FOR PERMANENT VEGETATIVE COVER). SEEDING FOR PERMANENT VEGETATIVE COVER SHALL BE WITHIN THE SEASONAL LIMITATIONS. PROVIDE STABILIZATION WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.
4. SEEDING AREAS TO BE MULCHED WITH STRAW OR HAY MULCH IN ACCORDANCE WITH VEGETATIVE COVER SPECIFICATIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING SLOTT BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT AND WATER.
7. WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.

**EROSION AND SEDIMENT CONTROL MEASURES:**


- GENERAL MEASURES:**
1. DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGE.
  2. AS MUCH AS IS PRACTICAL, EXISTING VEGETATION SHALL BE PRESERVED. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
  3. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AND DURATION OF SOIL DISRUPTION.
  4. PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES OF CONVICTION" SHALL BE AVOIDED. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL POINTS OF ENTRY ONTO THE PROJECT SITE.
- PARTICULAR MEASURES:**
1. SOIL STOCKPILES: SILT FENCES SHALL BE CONSTRUCTED AROUND ALL STOCKPILES OF FILL, TOPSOIL, AND EXCAVATED OVERBURDEN THAT ARE TO REMAIN EXPOSED FOR PERIODS LESS THAN 21 DAYS. SILT FENCES SHALL BE ANCHORED AND MAINTAINED IN GOOD CONDITION UNTIL SUCH TIME AS SAID STOCKPILES ARE REMOVED AND STOCKPILING AREAS ARE RESTORED TO FINAL GRADE AND PERMANENTLY STABILIZED. TOPSOIL AND FILL THAT IS TO REMAIN STOCKPILED ON-SITE FOR PERIODS GREATER THAN 21 DAYS SHALL BE STABILIZED BY SEEDING PRIOR TO THE SEEDING OPERATION. THE STOCKPILED MATERIAL SHALL BE GRADDED AS NECESSARY AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDING PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. IN NO CASE SHALL CRUSHIBLE MATERIALS BE STOCKPILED WITHIN 25 FEET OF ANY DITCH, STREAM, OR OTHER SURFACE WATER BODY.

**MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES:**

- PERMANENT AND TEMPORARY VEGETATION:**
- INSPECT ALL AREAS THAT HAVE RECEIVED VEGETATION EVERY SEVEN DAYS. ALL AREAS DAMAGED BY EROSION OR WHERE SEED HAS NOT ESTABLISHED SHALL BE REPAIRED AND RESTABILIZED IMMEDIATELY.
- SILT FENCE:**
- INSPECT FOR DAMAGE EVERY SEVEN DAYS. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE FENCE. IF FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF FENCE IMMEDIATELY.
- SOIL STOCKPILE:**
- INSPECT SEDIMENT CONTROL BARRIERS (SILT FENCE OR HAYMULCH) AND VEGETATION FOR DAMAGE EVERY SEVEN DAYS. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE SEDIMENT CONTROL BARRIERS BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE SEDIMENT CONTROL BARRIER. IF SEDIMENT CONTROL BARRIER TEARS, BEGINS TO DECOMPOSE, OR IN ANYWAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY. REVEGETATE DISTURBED AREA TO STABILIZE SOIL STOCK PILE. REMOVE THE SEDIMENT CONTROL BARRIER WHEN THE SOIL STOCKPILE HAS BEEN REMOVED.
- DUST CONTROL:**
- SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORK. APPLY TEMPORARY SOIL STABILIZATION PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING (WATER). STRUCTURAL MEASURES (MULCH, SEEDING) SHALL BE INSTALLED IN DISTURBED AREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOPE. WATER SHALL BE SPRAYED AS REQUIRED, REPEAT AS NEEDED, BUT AVOID EXCESSIVE SPRAYING WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.
- DEWATERING FITS:**
- (IF REQUIRED) - INSPECT DAILY DURING OPERATION FOR CLOGGING OR OVERFLOW. CLEAN INLET AND DISCHARGE PRIOR TO OBSTRUCTIONS. IF A FILTER MATERIAL BECOMES CLOGGED WITH SEDIMENT, FIT SHALL BE DECONTAMINATED AND CONSTRUCT NEW FITS AS NEEDED.
- SNOW AND ICE CONTROL:**
- PARKING LOTS, ROADWAYS, AND DRIVEWAYS ADJACENT TO WATER QUALITY FILTERS SHALL NOT BE SANDED DURING SNOW EVENTS DUE TO HIGH POTENTIAL FOR CLOGGING FROM SAND IN SURFACE WATER RUNOFF. USE SALT ONLY FOR SNOW AND ICE CONTROL.

EROSION & SEDIMENT INSPECTION & MAINTENANCE SCHEDULE	AFTER CONSTRUCTION				AFTER COMPLETION OF CONSTRUCTION	
	DAILY	WEEKLY	MONTHLY	QUARTERLY	FUNCTION	REPAIRS
SILT FENCE BARRIER	INSPECT	INSPECT	INSPECT	INSPECT	CLEAN / REPLACE / REPAIR	REMOVE
DUST CONTROL	INSPECT	INSPECT	INSPECT	INSPECT	MULCHING / SPRAYING WATER	N/A
VEGETATIVE ESTABLISHMENT	INSPECT	INSPECT	INSPECT	INSPECT	WATERING / RE-SEEDING / RE-MULCHING	PERMANENT
INLET PROTECTION	INSPECT	INSPECT	INSPECT	INSPECT	CLEAN / REPAIR / REPLACE	REMOVE

**4** **STABILIZED CONSTRUCTION ENTRANCE**  
C-526 SCALE: NOT TO SCALE



**CITY OF NEWBURGH**  
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THE ALTERATION OF THIS MATERIAL IN ANY WAY UNLESS UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 1700, SUBSECTION 2, OF THE NEW YORK STATE LAW AND IS A CRIME UNDER THE LAW.

CONTRACT NUMBER  
**CONSTRUCTION DOCUMENTS**

DATE  
**JULY 13, 2016**

ADDENDA/REVISIONS

NO.	NAME	DATE

THIS DRAWING REFLECTS ALL CHANGES PREVIOUSLY MADE ON THIS SHEET. REVISIONS THAT PREVIOUS CHANGES HAVE BEEN INCORPORATED INTO THE CONTRACT BEFORE PROCEEDING WITH ANY WORK NOT SPECIFICALLY REFERENCED BY THESE REVISONS.

PROJECT TITLE  
**LIBERTY STREET CDBG SIDEWALKS**

LOCATION  
**LIBERTY STREET  
ORANGE COUNTY, NEW YORK**

OWNER  
**CITY OF NEWBURGH**

SHEET TITLE  
**E&S NOTES AND DETAILS**

DRAWING NUMBER  
**C-520**

SHEET 15 OF 15

DATE: 07-13-16 2:26 PM  
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