

# ***CITY OF STAMFORD***

MAYOR  
***DAVID MARTIN***

DIRECTOR OF OPERATIONS  
***MARK McGRATH***  
Email: MMcGrath1@StamfordCT.gov



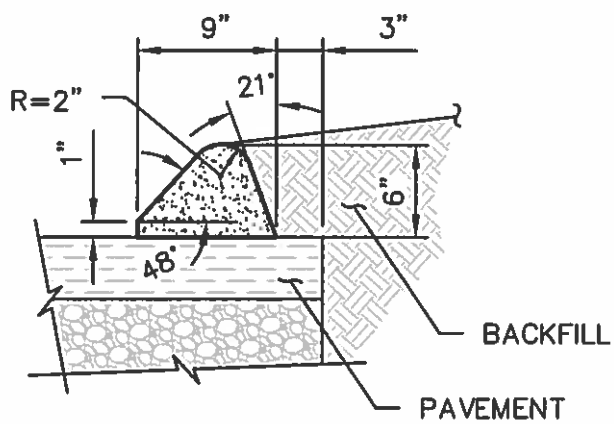
CITY ENGINEER  
***LOUIS CASOLO, JR., P.E.***  
Email: lcasolo@ci.stamford.ct.us

## **OFFICE OF OPERATIONS ENGINEERING BUREAU**

Tel: (203) 977-4180/Fax: (203) 977-4137  
Government Center, 888 Washington Blvd., Stamford, CT 06901

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## BITUMINOUS CONCRETE LIP CURBING

SCALE: 1" = 1'-0"



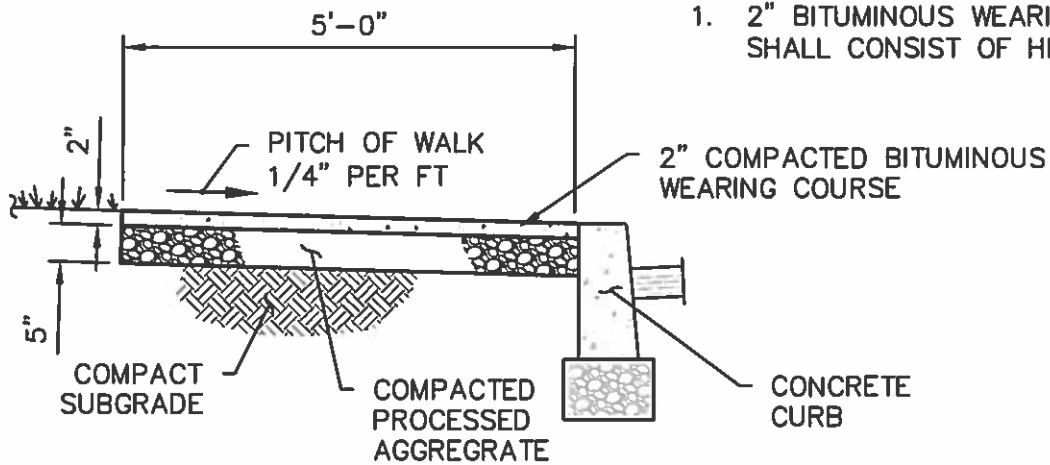
CITY OF STAMFORD  
ENGINEERING BUREAU  
SKETCHES & CALCULATIONS

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 Made by: PG Date: 3/21/14 Rev. \_\_\_\_\_  
 Chk. by: AC Date: 3/21/14

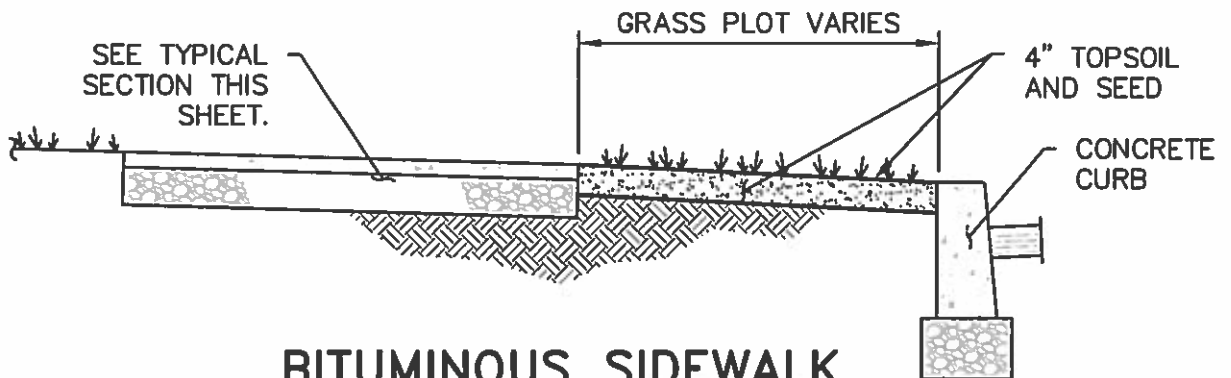
Sheet No. 1 of 1

## NOTES

1. 2" BITUMINOUS WEARING COURSE SHALL CONSIST OF HMA S0.375.



## TYPICAL SECTION



## BITUMINOUS SIDEWALK WITH GRASS PLOT

## TYPICAL BITUMINOUS SIDEWALK DETAILS

SCALE: 1/2" = 1'-0"



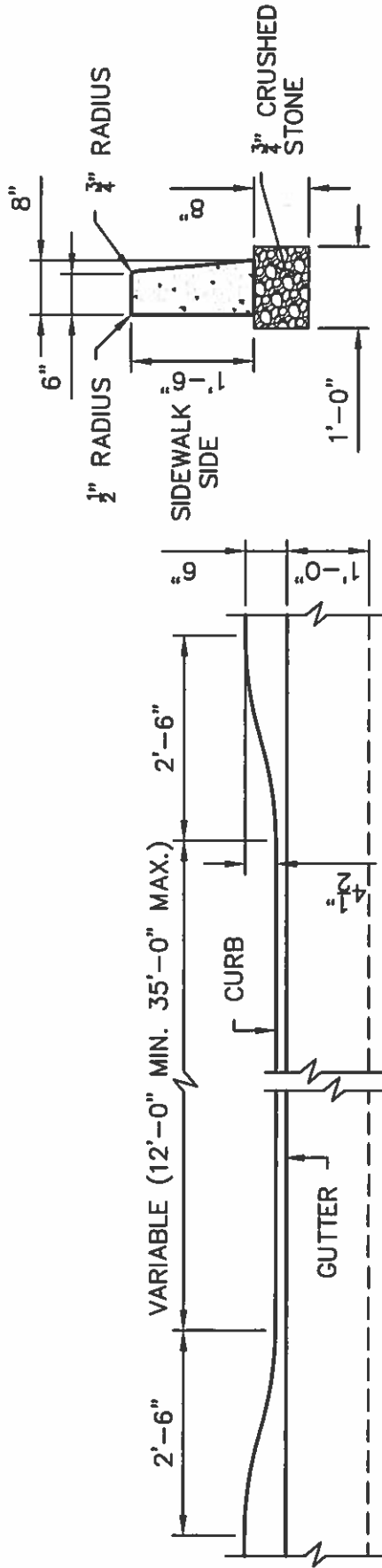
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Subject BITUMINOUS SIDEWALK DETAILS  
Made by: AC Date: 2/17/15 Rev. \_\_\_\_\_  
Chk. by: PG Date: 2/17/15

Sheet No. 1 of 1

## NOTES

1. ALL CURBING TO BE CAST-IN-PLACE.
2. APPROVED 1/2" PREFORMED EXPANSION JOINT FILLER SHALL BE PLACED AT A MAX. SPACING OF 10 FEET COINCIDING WITH EXPANSION JOINTS IN SIDEWALK.

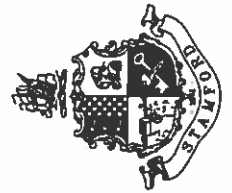


## CURB DROP AT DRIVEWAYS

## TYPICAL SECTION

## CONCRETE CURB DETAILS

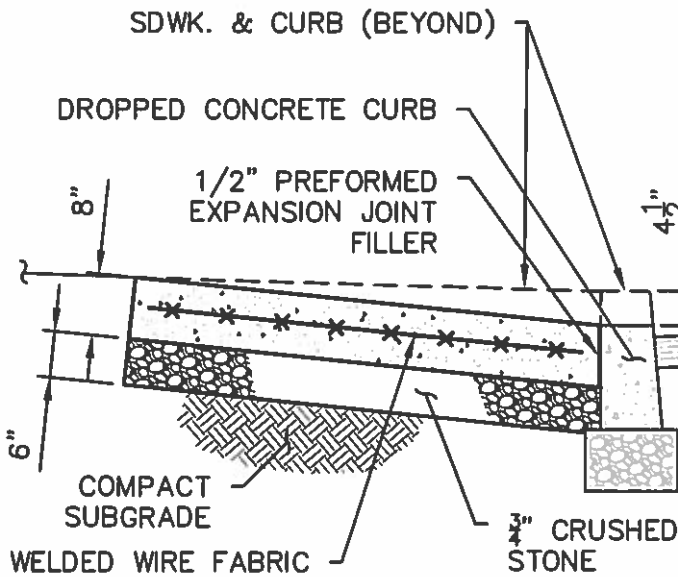
SCALE: 1/2" = 1'-0"



**CITY OF STAMFORD**  
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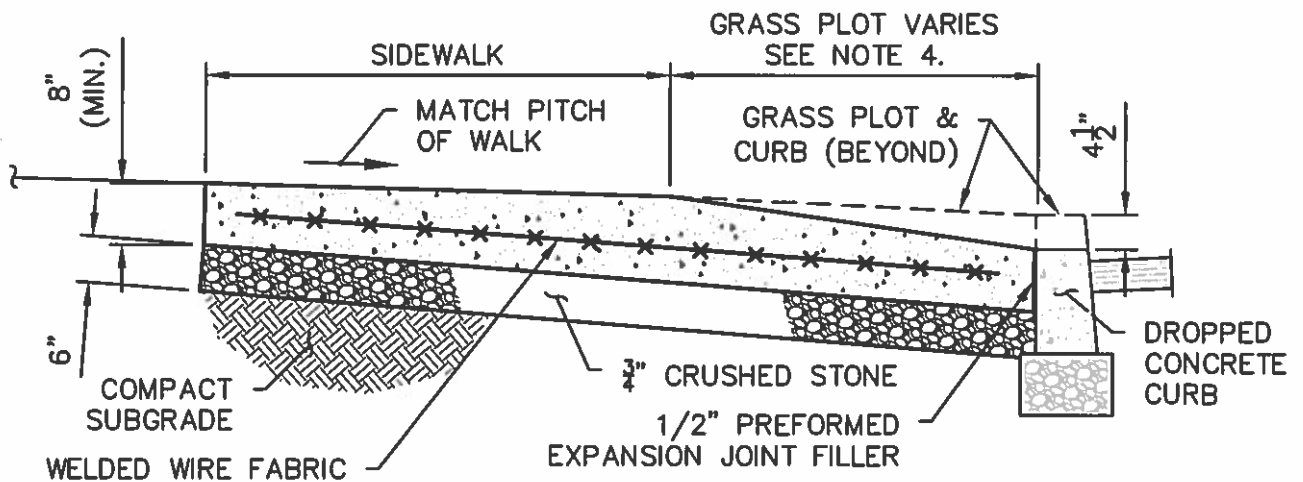
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Subject CONCRETE CURBING DETAILS  
Made by: PG Date: 3/21/14 Rev. \_\_\_\_\_  
Chk. by: AC Date: 3/21/14  
Sheet No. 1 of 1

## NOTES



1. IN AREAS WITH NO SIDEWALKS, DRIVEWAY RAMPS SHALL EXTEND A MINIMUM OF 4'-0" FROM BACK OF CURB.
2. WELDED WIRE FABRIC (WWF): 4x4-W4.0xW4.0 (SHEETS ONLY). DISCONTINUE AT EXPANSION JOINTS.
3. WWF SHALL BE INSTALLED MID DEPTH OF RAMP AND SHALL BE SUPPORTED ON CONCRETE BLOCK OR OTHER APPROVED MATERIAL.
4. WHERE GRASS PLOT IS LESS THAN 4'-0" WIDE, RAMP CONSTRUCTION IS TO BE AS DIRECTED BY THE ENGINEER.

### NO SIDEWALK OR SIDEWALK WITHOUT GRASS PLOT



### SIDEWALK WITH GRASS PLOT

## TYPICAL DRIVEWAY APRON DETAILS

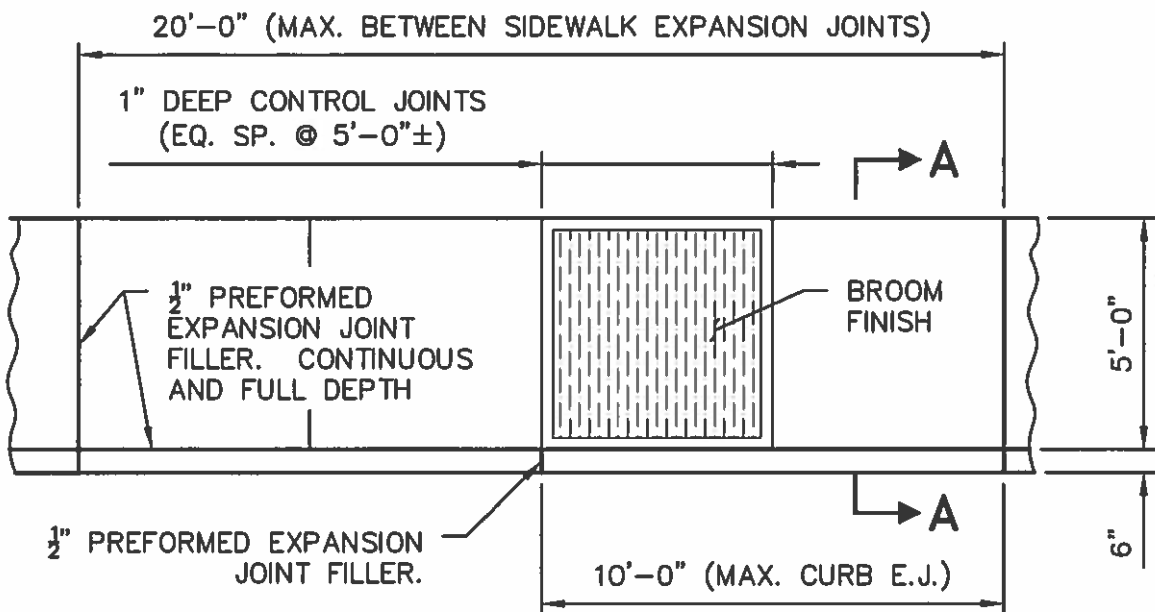
SCALE: 1/2" = 1'-0"



CITY OF STAMFORD  
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Project No. & Name CITY STANDARDS  
Subject DRIVEWAY APRON DETAILS  
Made by: PG Date: 3/21/14 Rev. \_\_\_\_\_  
Chk. by: AC Date: 3/21/14

Sheet No. 1 of 1



## NOTES

1. SIDEWALK CONCRETE SHALL BE Poured TO A UNIFORM DEPTH ON APPROVED BASE.
2. CONCRETE SHALL BE ConnDOT CLASS "C" (3000 PSI MIN.) UTILIZING TYPE II CEMENT, AND SHALL HAVE BETWEEN 6-7% AIR ENTRAINMENT.
3. 1/2" PREFORMED EXPANSION JOINT FILLER SHALL BE PLACED BETWEEN NEW SIDEWALK WORK AND ALL RIGID STRUCTURES SUCH AS SANITARY AND DRAINAGE STRUCTURES AND BUILDINGS AND STONE AND CONCRETE MASONRY WALLS.
4. EDGES SHALL BE ROUNDED TO A RADIUS OF 1/4".
5. ADDITIONAL CONTROL JOINTS SHALL BE PLACED AS REQUIRED TO ELIMINATE ANY CONDITION WHICH WILL CAUSE STRESS CONCENTRATIONS (EXAMPLE AT CORNERS OF STRUCTURES). JOINTS SHALL BE ORIENTED AS DIRECTED BY THE ENGINEER.
6. SURFACE SHALL BE GIVEN A BROOM FINISH ORIENTED PERPENDICULAR TO DIRECTION OF PEDESTRIAN TRAFFIC FLOW.

## PLAN - CONCRETE SIDEWALK

SCALE: 1/4" = 1'-0"



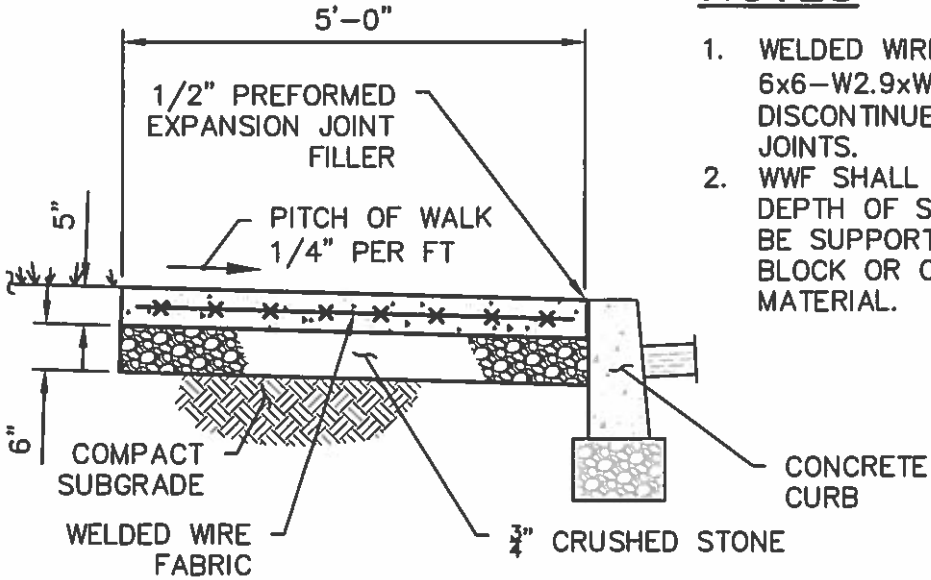
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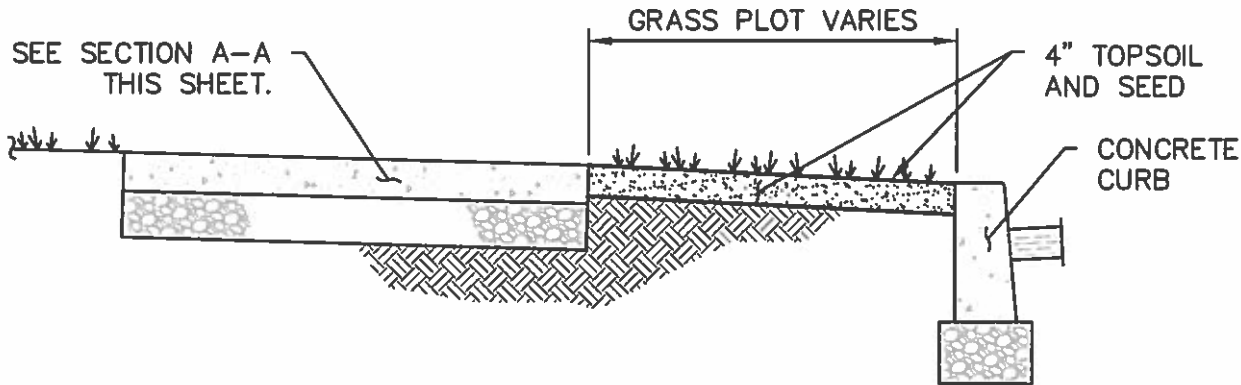
Sheet No. 1 of 2

**NOTES**

1. WELDED WIRE FABRIC (WWF): 6x6-W2.9xW2.9 (SHEETS ONLY). DISCONTINUE AT EXPANSION JOINTS.
2. WWF SHALL BE INSTALLED MID DEPTH OF SIDEWALK AND SHALL BE SUPPORTED ON CONCRETE BLOCK OR OTHER APPROVED MATERIAL.



**SECTION A-A**



**SIDEWALK WITH GRASS PLOT**

**TYPICAL SIDEWALK DETAILS**

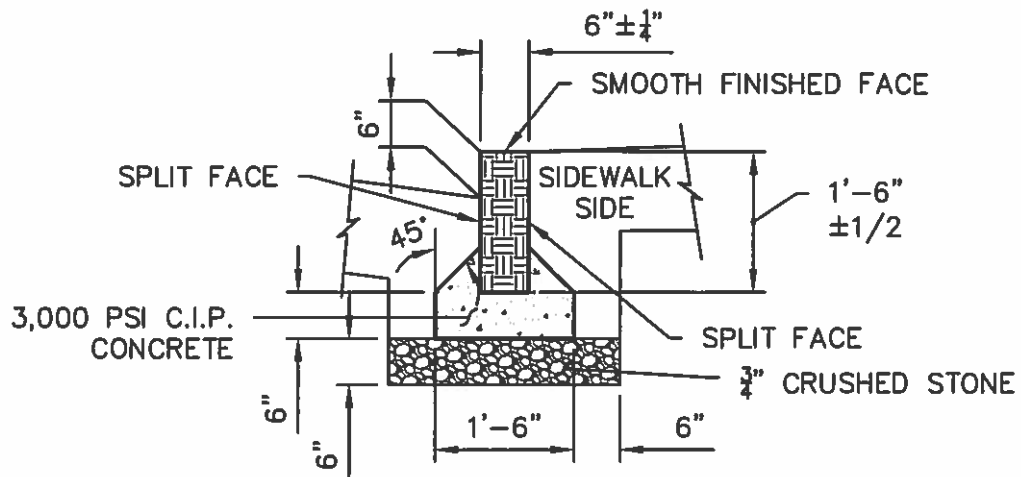
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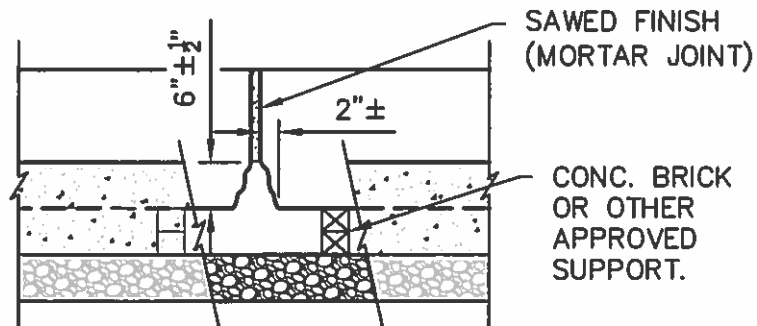
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ENGINEERING BUREAU  
SKETCHES & CALCULATIONS

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 Chk. by: AC Date: 3/21/14

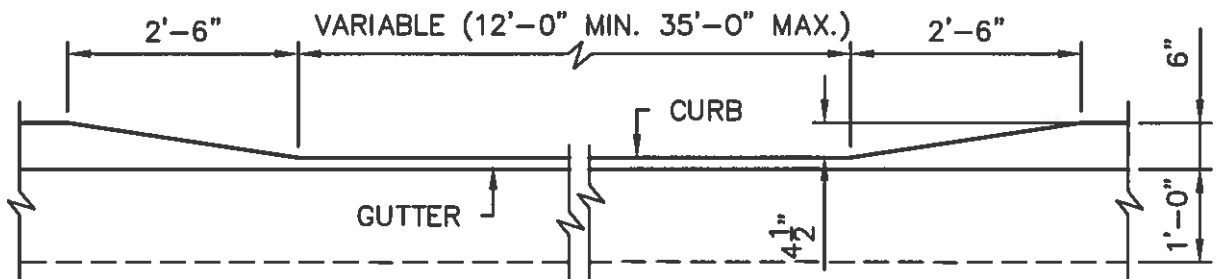
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**TYPICAL SECTION**

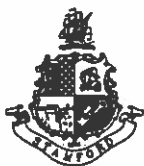


**TYPICAL ELEVATION**



**CURB DROP AT DRIVEWAYS**  
**GRANITE STONE CURB DETAILS**

SCALE: 1/2" = 1'-0"

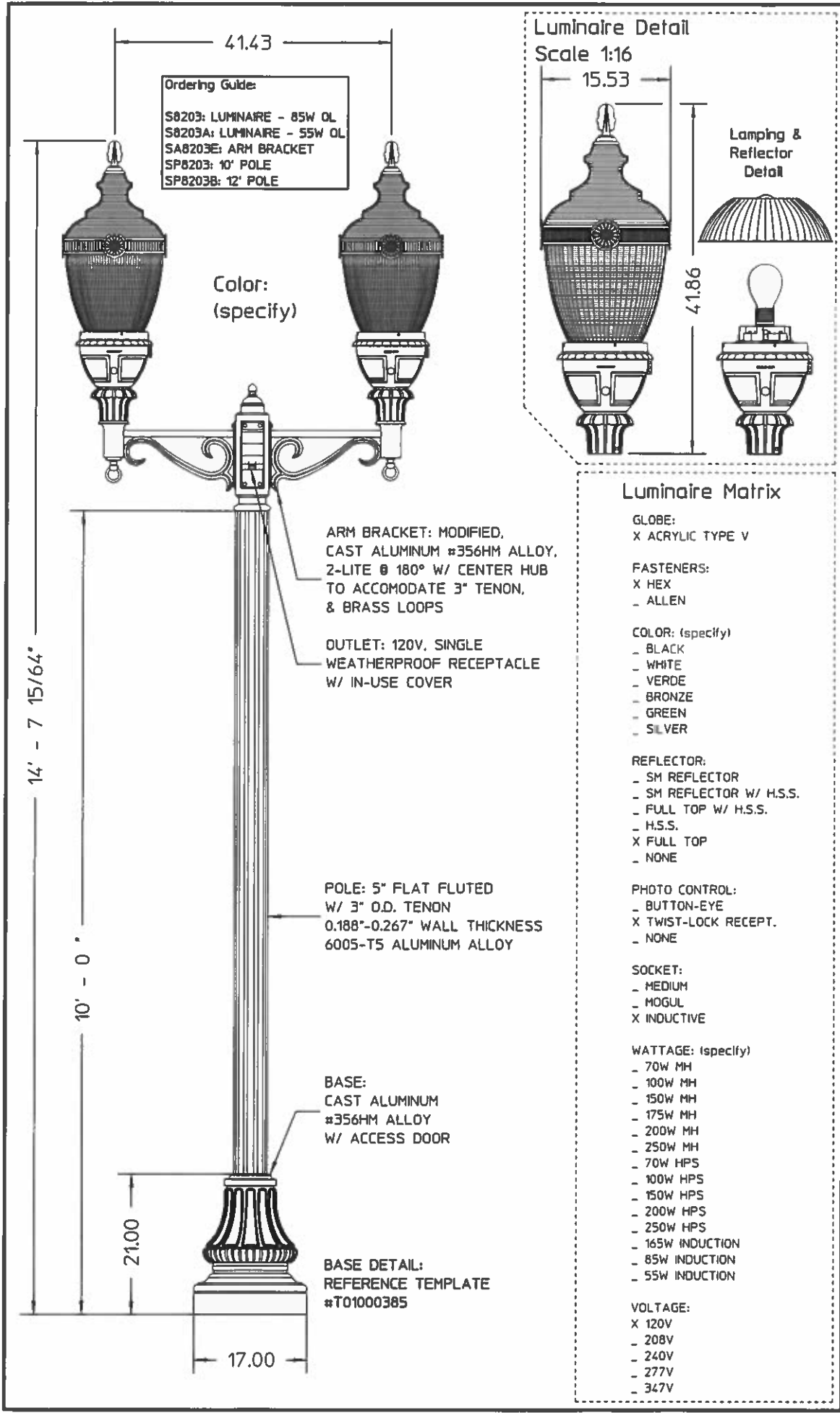


CITY OF STAMFORD  
 ENGINEERING BUREAU  
 SKETCHES & CALCULATIONS

Project No. & Name CITY STANDARDS  
 Subject GRANITE STONE CURBING DETAILS  
 Made by: PG Date: 3/21/14 Rev. \_\_\_\_\_  
 Chk. by: AC Date: 3/21/14

Sheet No. 1 of 1





**Ordering Guide:**  
 S8203: LUMINAIRE - 85W OL  
 S8203A: LUMINAIRE - 55W OL  
 SA8203E: ARM BRACKET  
 SP8203: 10' POLE  
 SP8203B: 12' POLE

Color:  
(specify)

ARM BRACKET: MODIFIED,  
 CAST ALUMINUM #356HM ALLOY,  
 2-LITE @ 180° W/ CENTER HUB  
 TO ACCOMODATE 3" TENON,  
 & BRASS LOOPS

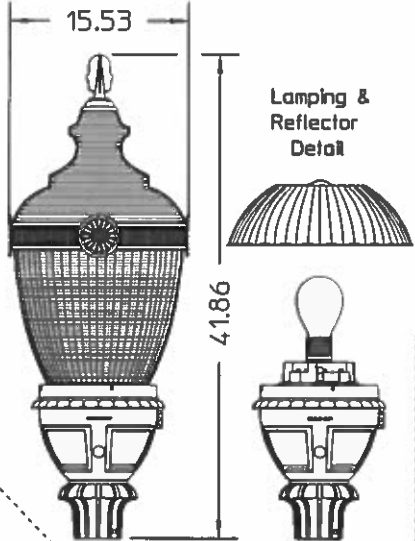
OUTLET: 120V, SINGLE  
 WEATHERPROOF RECEPTACLE  
 W/ IN-USE COVER

POLE: 5" FLAT FLUTED  
 W/ 3" O.D. TENON  
 0.188"-0.267" WALL THICKNESS  
 6005-T5 ALUMINUM ALLOY

BASE:  
 CAST ALUMINUM  
 #356HM ALLOY  
 W/ ACCESS DOOR

BASE DETAIL:  
 REFERENCE TEMPLATE  
 #T01000385

**Luminaire Detail**  
 Scale 1:16



**Luminaire Matrix**

- GLOBE:
  - X ACRYLIC TYPE V
- FASTENERS:
  - X HEX
  - ALLEN
- COLOR: (specify)
  - BLACK
  - WHITE
  - VERDE
  - BRONZE
  - GREEN
  - SILVER
- REFLECTOR:
  - SM REFLECTOR
  - SM REFLECTOR W/ H.S.S.
  - FULL TOP W/ H.S.S.
  - H.S.S.
  - X FULL TOP
  - NONE
- PHOTO CONTROL:
  - BUTTON-EYE
  - X TWIST-LOCK RECEPT.
  - NONE
- SOCKET:
  - MEDIUM
  - MOGUL
  - X INDUCTIVE
- WATTAGE: (specify)
  - 70W MH
  - 100W MH
  - 150W MH
  - 175W MH
  - 200W MH
  - 250W MH
  - 70W HPS
  - 100W HPS
  - 150W HPS
  - 200W HPS
  - 250W HPS
  - 165W INDUCTION
  - 85W INDUCTION
  - 55W INDUCTION
- VOLTAGE:
  - X 120V
  - 208V
  - 240V
  - 277V
  - 347V

**PRODUCT APPROVALS**

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Full  
 Specification  
 (Complete Assembly)  
 Drawing

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 is a Philips group brand

100 Craftway P.O. Box 128  
 Lilliestown, Pennsylvania 17340-0128  
 Phone 717-359-7131  
 Fax 717-359-9515  
 www.hadco.com

JOB NAME:  
**City of Stamford**

REP. TERRITORY: <b>27</b>	DRAWN BY: <b>RSB</b>
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SCALE: <b>1:20</b>	DATE: <b>08/27/03</b>
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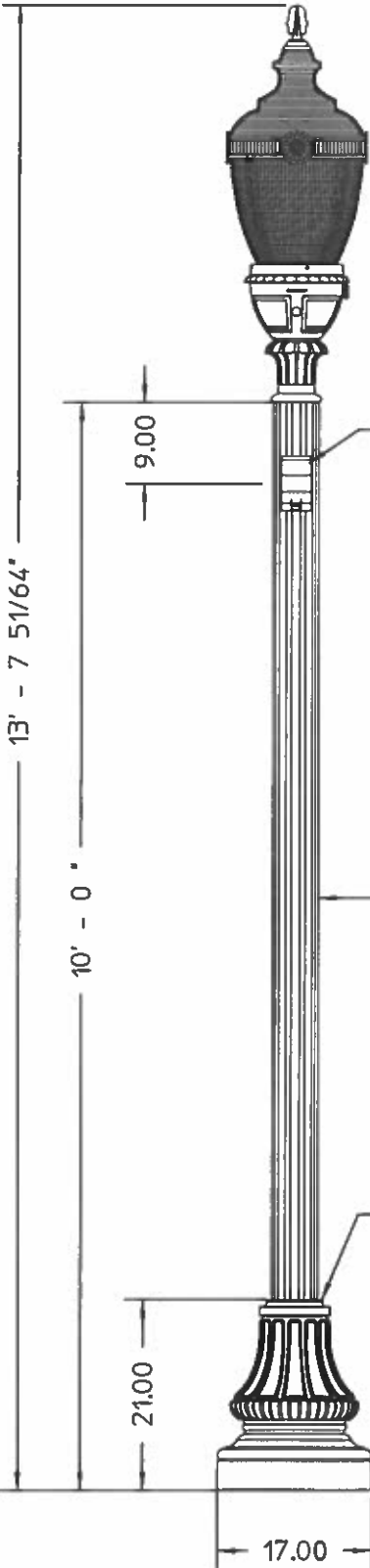
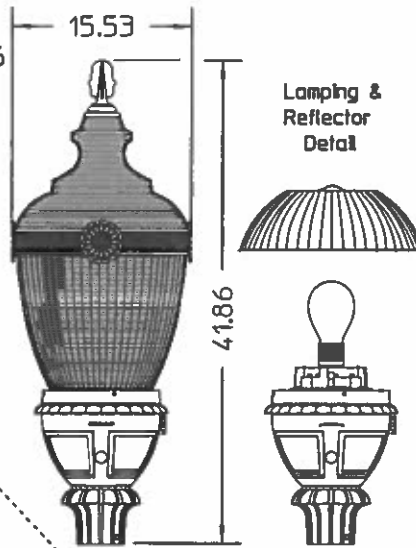
REP:  
**Lightoller-Connecticut**

REV: <b>1</b>	PCN: <b>08-081</b>
BY: <b>TAG</b>	DATE: <b>10/09/08</b>

**Ordering Guide:**

S8203: LUMINAIRE - 85W QL  
 S8203A: LUMINAIRE - 55W QL  
 SP8203J: 10' POLE  
 SP8203K: 12' POLE

**Luminaire Detail**  
 Scale 1:16



OUTLET: DUPLEX  
 120V, WEATHERPROOF  
 RECEPTACLE  
 W/ IN-USE COVER

Color:  
 (specify)

POLE: 5" FLAT FLUTED  
 W/ 3" O.D. TENON  
 0.188"-0.267" WALL THICKNESS  
 6005-T5 ALUMINUM ALLOY

BASE:  
 CAST ALUMINUM  
 #356HM ALLOY  
 W/ ACCESS DOOR

BASE DETAIL:  
 REFERENCE TEMPLATE  
 #T0100385

**Luminaire Matrix**

- GLOBE:
  - X ACRYLIC TYPE V
- FASTENERS:
  - X HEX
  - ALLEN
- COLOR: (specify)
  - BLACK
  - WHITE
  - VERDE
  - BRONZE
  - GREEN
  - SILVER
- REFLECTOR:
  - SM REFLECTOR
  - SM REFLECTOR W/ H.S.S.
  - FULL TOP W/ H.S.S.
  - H.S.S.
  - X FULL TOP
  - NONE
- PHOTO CONTROL:
  - BUTTON-EYE
  - X TWIST-LOCK RECEPT.
  - NONE
- SOCKET:
  - MEDIUM
  - MOGUL
  - X INDUCTIVE
- WATTAGE: (specify)
  - 70W MH
  - 100W MH
  - 150W MH
  - 175W MH
  - 200W MH
  - 250W MH
  - 70W HPS
  - 100W HPS
  - 150W HPS
  - 200W HPS
  - 250W HPS
  - 165W INDUCTION
  - 85W INDUCTION
  - 55W INDUCTION
- VOLTAGE:
  - X 120V
  - 208V
  - 240V
  - 277V
  - 347V

**PRODUCT APPROVALS**

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**JOB NAME:**

**City of Stamford**

**REP. TERRITORY:**

**27**

**DRAWN BY:**

**TAG**

**SCALE: DATE:**

**1:20**

**10.22.02**

**DRAWING NUMBER:**

**S8203B**

**REP:**

**Lightoller-CT**

**REV: H**

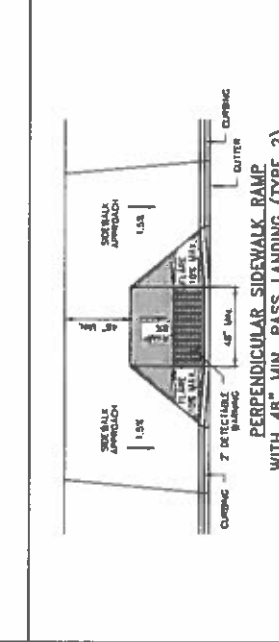
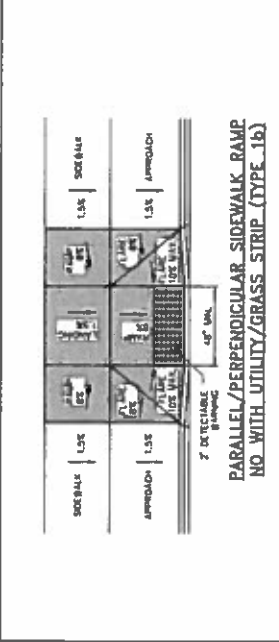
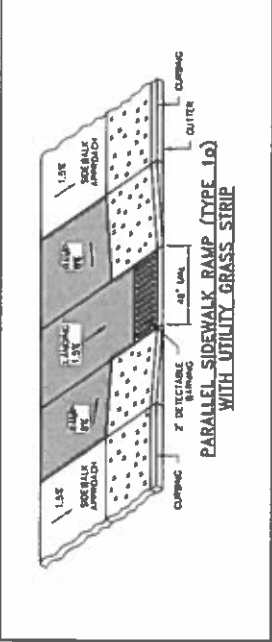
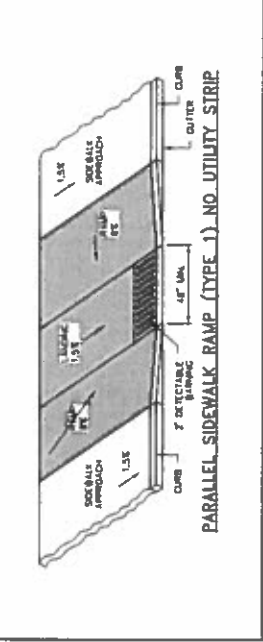
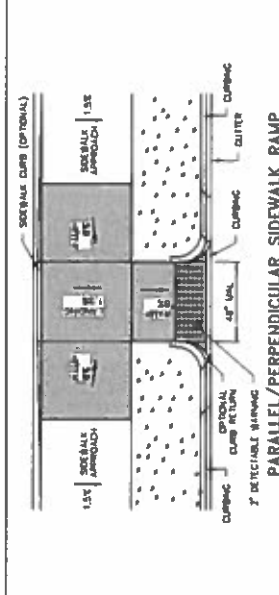
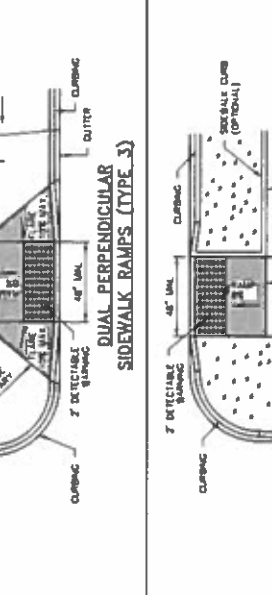
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**BY: JRS**

**DATE: 07.21.08**

**GENERAL NOTES**

1. MINIMUM SLOPE OF ASPHALTIC CURBS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE SIDEWALK SHALL BE 1:50. MINIMUM SLOPE OF CONCRETE CURBS SHALL BE 1:40. MINIMUM SLOPE OF RAMP DRIVE SHALL BE 1:50. MINIMUM SLOPE OF UTILITY GRASS STRIP SHALL BE 1:50. MINIMUM SLOPE OF RAMP DRIVE SHALL BE 1:50. MINIMUM SLOPE OF UTILITY GRASS STRIP SHALL BE 1:50.
2. RAMP DRIVE SHALL BE LAMPON. FREE OF SAGS AND UNIFORM GRADE CHANGES. BURNING SLOPES OF RAMP DRIVE SHALL NOT EXCEED 1:50.
3. ALL RAMP DRIVES SHALL BE CONSTRUCTED OF 15" CONCRETE IN ACCORDANCE WITH CONNECTION SPECIFICATIONS.
4. SIDEWALK RAMP SHALL HAVE A CHAMFER BROAD FLARE TRANSVERSE TO THE SLOPE OF THE RAMP. THE CHAMFER SHALL BE 1/2" MINIMUM. THE CHAMFER SHALL BE REVEALED 1/2" MINIMUM. THE CHAMFER SHALL BE REVEALED 1/2" MINIMUM. THE CHAMFER SHALL BE REVEALED 1/2" MINIMUM.
5. CURBS SHALL BE REVEALED 1/2" MINIMUM. THE CHAMFER SHALL BE REVEALED 1/2" MINIMUM. THE CHAMFER SHALL BE REVEALED 1/2" MINIMUM. THE CHAMFER SHALL BE REVEALED 1/2" MINIMUM.
6. EXPANSION JOINTS IN CONCRETE SHALL MATCH JOINTS EXISTING IN ADJACENT SIDEWALKS BUT IN NO CASE SHALL THE SPACING BETWEEN EXPANSION JOINTS EXCEED 20' IN SIDEWALKS AND 10' IN CURBS.
7. SIDEWALK RAMP SHALL BE PAID FOR UNDER THE CITY "PEDESTRIAN RAMP".
8. REFERRED LOCATION TO DETECTABLE WARNING STRIP SHALL BE 8" FROM THE EDGE OF ROAD.
9. DETECTABLE WARNING STRIP SHALL BE 48" WIDE. THE DETECTABLE WARNING STRIP SHALL BE 48" WIDE. THE DETECTABLE WARNING STRIP SHALL BE 48" WIDE.
10. DETECTABLE WARNING STRIP SHALL BE 48" WIDE. THE DETECTABLE WARNING STRIP SHALL BE 48" WIDE. THE DETECTABLE WARNING STRIP SHALL BE 48" WIDE.
11. DETECTABLE WARNING STRIP SHALL BE 48" WIDE. THE DETECTABLE WARNING STRIP SHALL BE 48" WIDE. THE DETECTABLE WARNING STRIP SHALL BE 48" WIDE.
12. UTILITY POLES, LUMINAIRES, PEDESTALS OR SIGNAL POLES, CHAIRS, ACCESS COVERS, AND OTHER OBSTACLES SHALL BE LOCATED AT LEAST 4' FROM THE DETECTABLE WARNING STRIP.
13. DETECTABLE WARNING STRIP SHALL BE 48" WIDE. THE DETECTABLE WARNING STRIP SHALL BE 48" WIDE. THE DETECTABLE WARNING STRIP SHALL BE 48" WIDE.
14. APPROACH SIDEWALK RAMP, GRASS STRIP OR UTILITY STRIP WIDTHS MAY VARY.
15. APPROACH SIDEWALK RAMP, GRASS STRIP OR UTILITY STRIP WIDTHS MAY VARY.
16. APPROACH SIDEWALK RAMP, GRASS STRIP OR UTILITY STRIP WIDTHS MAY VARY.
17. APPROACH SIDEWALK RAMP, GRASS STRIP OR UTILITY STRIP WIDTHS MAY VARY.
18. APPROACH SIDEWALK RAMP, GRASS STRIP OR UTILITY STRIP WIDTHS MAY VARY.



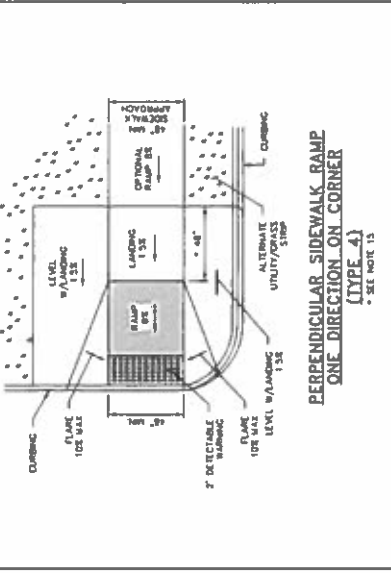
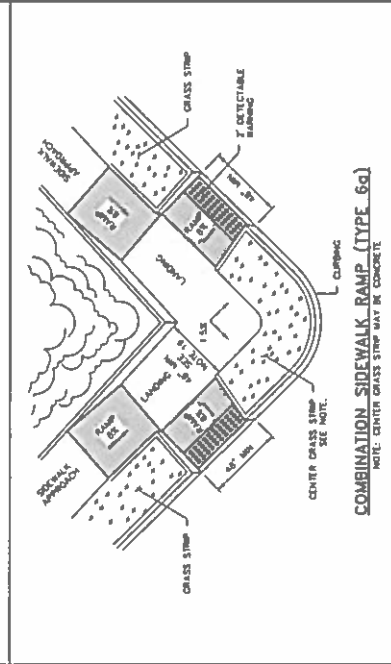
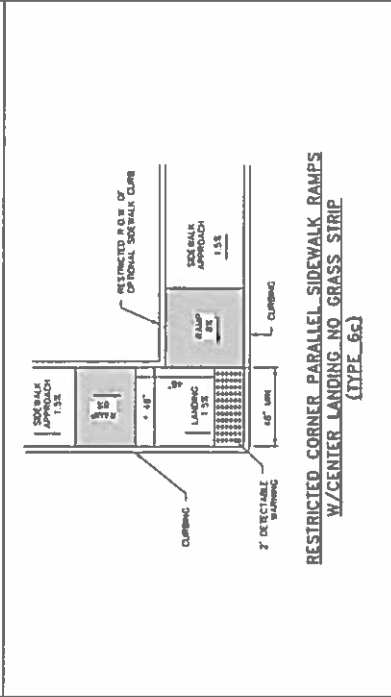
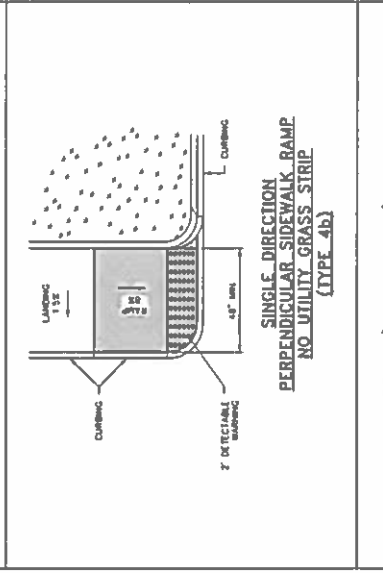
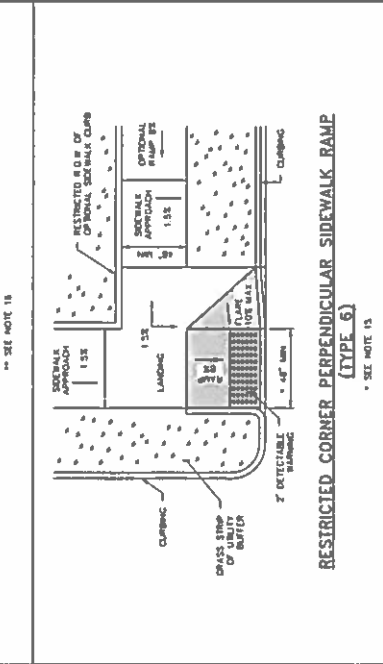
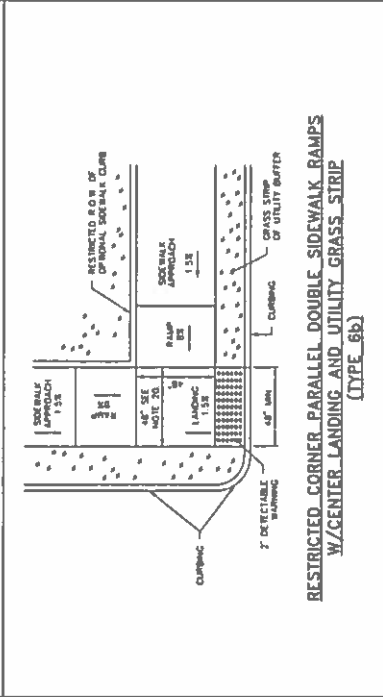
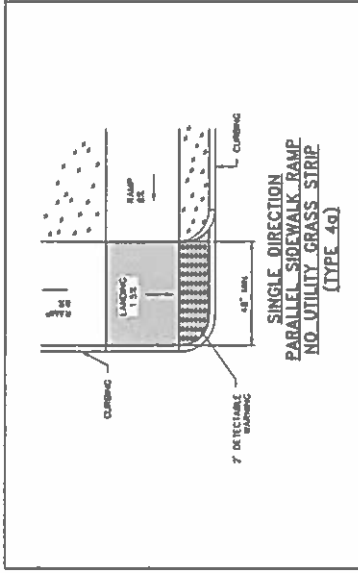
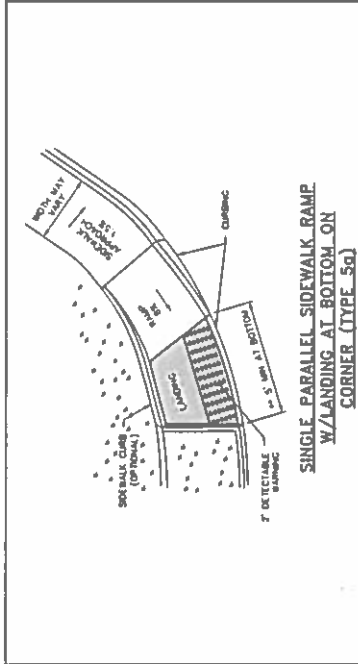
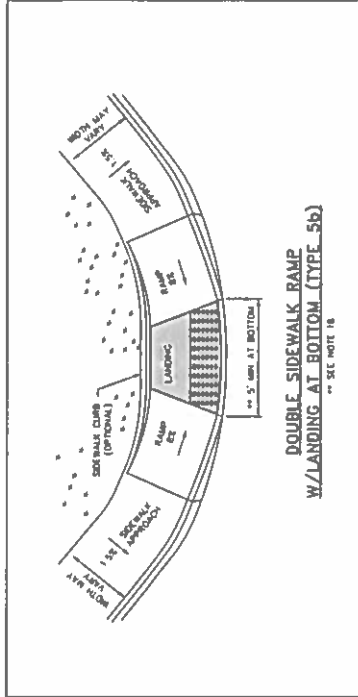
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PEDESTRIAN RAMPS			
SHEET NO. 1			
OF 1			

DATE: 3/24/74	DATE: 3/24/74	DATE: 3/24/74	DATE: 3/24/74
PC	AC	AC	AC
CITY STANDARDS			
PEDESTRIAN RAMPS			
SHEET NO. 1			
OF 1			

DATE: 3/24/74	DATE: 3/24/74	DATE: 3/24/74	DATE: 3/24/74
PC	AC	AC	AC
CITY STANDARDS			
PEDESTRIAN RAMPS			
SHEET NO. 1			
OF 1			

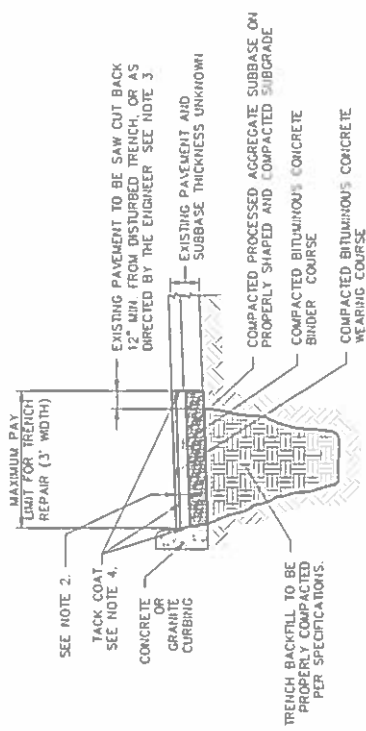
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PC	AC	AC	AC
CITY STANDARDS			
PEDESTRIAN RAMPS			
SHEET NO. 1			
OF 1			

CITY OF STAMFORD  
OFFICE OF OPERATIONS  
ENGINEERING BUREAU

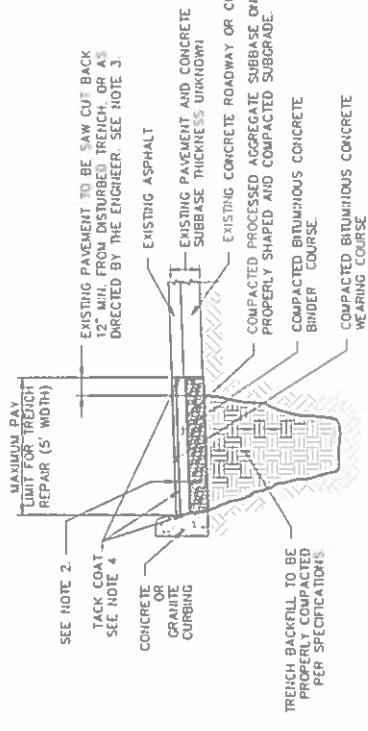


SUPPLIED BY: DATE: DESIGNED BY: DATE: PROJECT TITLE:		CITY STANDARDS		SCALE: NOT TO SCALE
DRAWN BY: PC		CHECKED BY: AC		PROJECT NO. CS 1911
DATE: 3/21/14		DATE: 3/21/14		DRAWING NO. PR-2
SHEET NO. X OF X		SHEET NO. 2 OF 2		DRAWING NO. PR-2
CITY OF STAMFORD OFFICE OF OPERATIONS ENGINEERING BUREAU		PEDESTRIAN RAMPS SHEET 2		SHEET NO. X OF X
SEAL:		CONSULTANT:		NO. DATE DESCRIPTION OR BY
FILE NO.		REPORTS		NO. DATE DESCRIPTION OR BY





**PERMANENT TRENCH REPAIR**  
NOT TO SCALE



**PERMANENT TRENCH REPAIR W/ CONCRETE**  
NOT TO SCALE

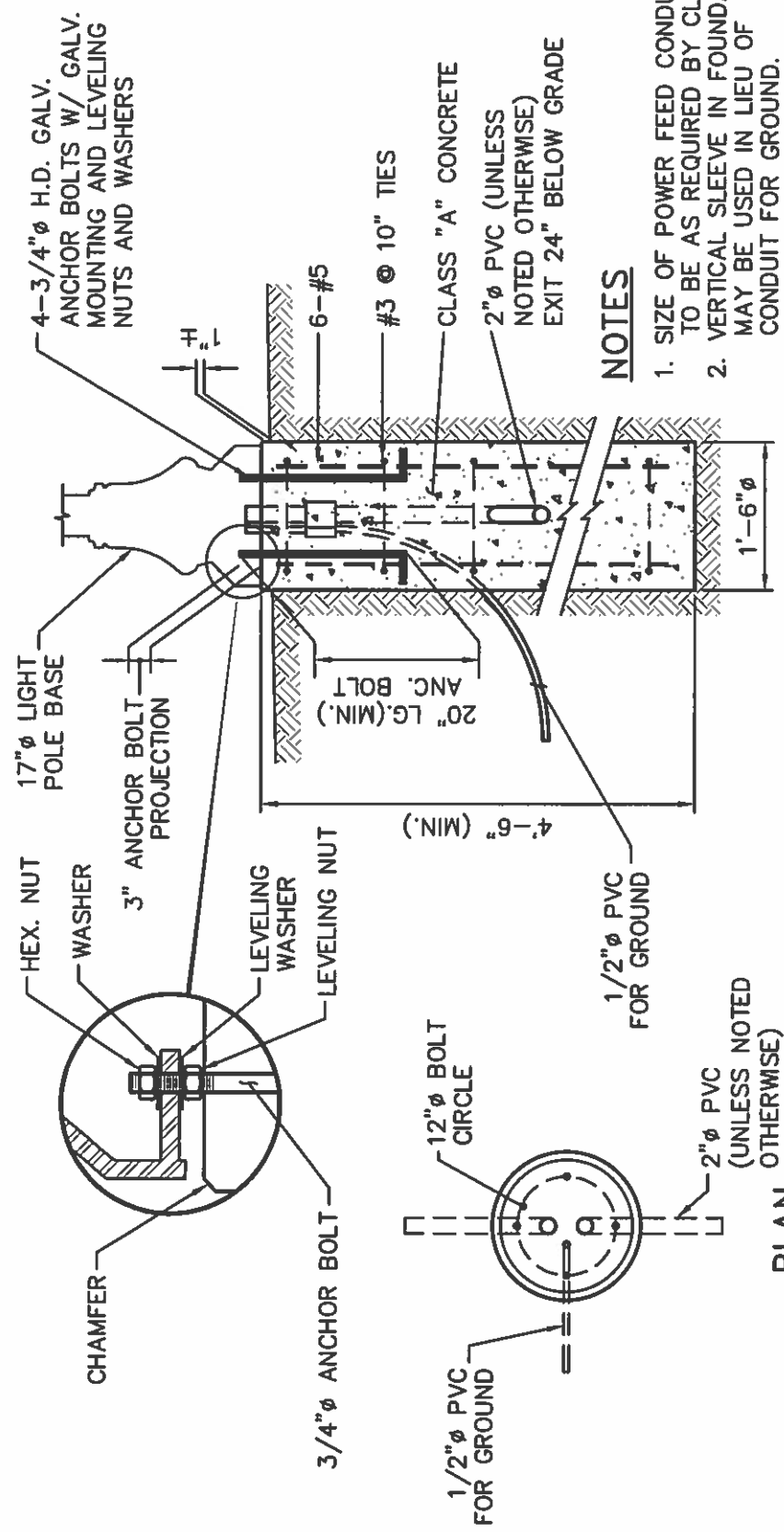
**PERMANENT TRENCH REPAIR NOTES**

1. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, LATEST EDITION OR AS DIRECTED BY THE ENGINEER.
2. SHOULD THE TOTAL THICKNESS OF EXISTING PAVEMENT EXCEED THE THICKNESS OF PROPOSED BINDER PLUS WEARING COURSE, THE THICKNESS OF BINDER COURSE SHALL BE INCREASED SUCH THAT THE TOTAL THICKNESS OF REPAIR BITUMINOUS PAVEMENT MATCHES EXISTING.
3. CUTBACKS SHALL BE MADE IMMEDIATELY PRIOR TO TRENCH REPAIR AND NOT WHEN TRENCH IS EXCAVATED. CUTBACKS SHALL BE STRAIGHT AND EVEN TO ELIMINATE IRREGULAR EDGE.
4. TACK COAT SHALL BE APPLIED TO THE FULL DEPTH OF EXISTING PAVEMENT ALONG THE PERIMETER EDGES OF THE TRENCH AND ALL CONTACT SURFACES SUCH AS CURBING AND STRUCTURES (MANHOLES AND CATCH BASINS). TACK COAT SHALL BE APPLIED BETWEEN LIFTS/COURSES THAT HAVE BEEN IN PLACE LONGER THAN FIVE (5) DAYS.
5. HMA 50/50 BINDER COURSE SHALL NOT BE PLACED IN LIFTS GREATER THAN 2 1/2\" COMPACTED THICKNESS.

PAVEMENT COMPOSITION		COLLECTOR	ARTERIAL
WEARING COURSE	1 1/2\" HMA 50/375	1 1/2\" HMA 50/375	
BINDER COURSE	2 1/2\" HMA 50/50	4 1/2\" HMA 50/50 *	
PROC. AGG. SUBBASE	8\"	8\"	

TABLE NOTES:  
 1. ENGINEER TO DETERMINE ROADWAY CLASSIFICATION.  
 2. THICKNESS INDICATED IS THAT OF COMPACTED MATERIAL.  
 3. \* DENOTES COURSES REQUIRING MULTIPLE LIFTS.

CONSULTANT		SCALE: X	
CITY OF STAMFORD		PROJECT NO.: CP 2270	
OFFICE OF OPERATIONS		DRAWING NO.: PERMANENT TRENCH REPAIR DETAIL	
ENGINEERING BUREAU		SHEET NO.: 1 OF 1	
DATE	DATE	DATE	DATE
DESIGNED BY	CHECKED BY	DATE	DATE
PROJECT FILE	DRAWING FILE		



**NOTES**

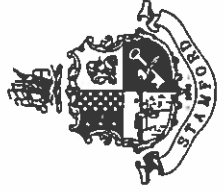
1. SIZE OF POWER FEED CONDUIT TO BE AS REQUIRED BY CL&P.
2. VERTICAL SLEEVE IN FOUNDATION MAY BE USED IN LIEU OF CONDUIT FOR GROUND.
3. GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH THE NEC.
4. VERIFY ANCHOR BOLT LAYOUT SUCH THAT ACCESS DOOR IN BASE OF POLE FACES SIDEWALK.

**SECTION**

**LIGHT POLE FOUNDATION DETAILS**

NOT TO SCALE

**PLAN**

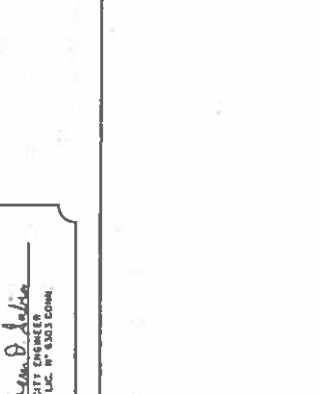
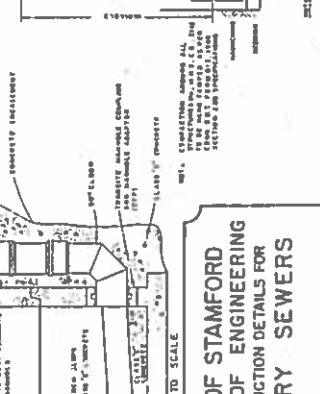
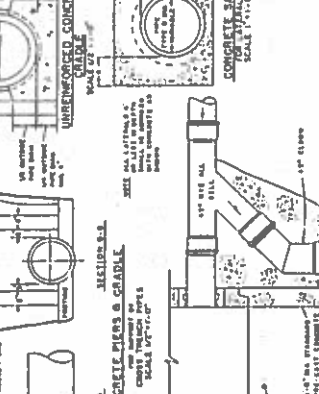
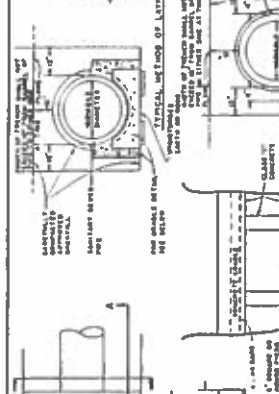
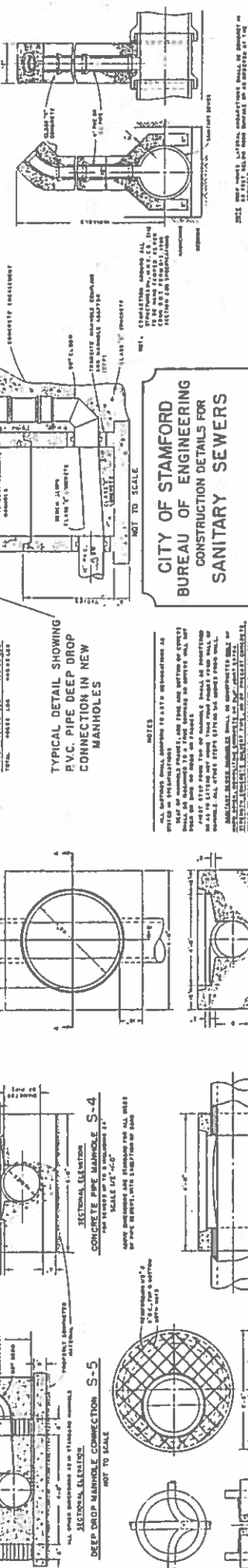
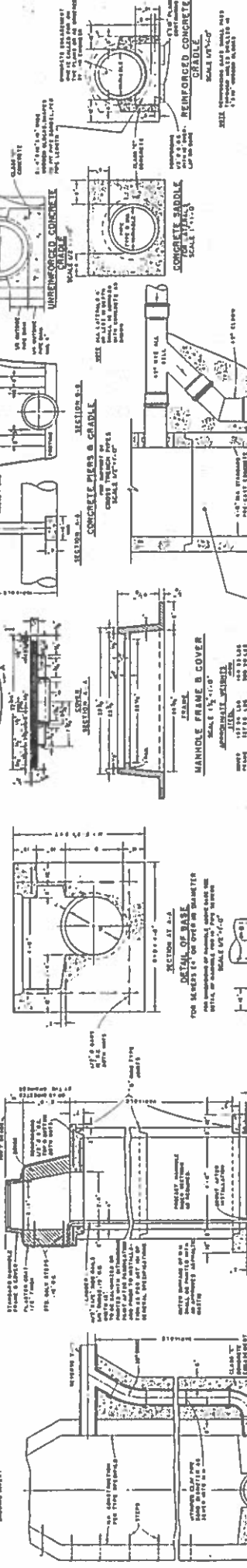
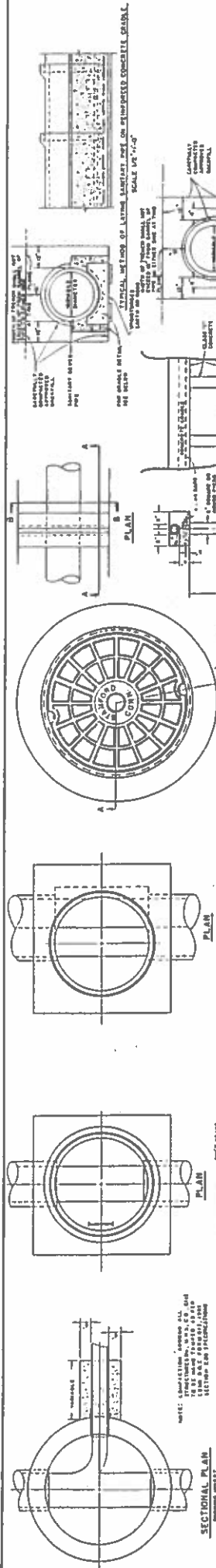


**CITY OF STAMFORD**  
ENGINEERING BUREAU  
SKETCHES & CALCULATIONS

Project No. & Name: COS Ornamantal Streetlight Foundation  
 Subject: \_\_\_\_\_  
 Made by: PDG Date: 4/1/08 REV 3 2/7/11  
 Chk. by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Sheet No. 1 of 1







CITY OF STAMFORD  
BUREAU OF ENGINEERING  
CONSTRUCTION DETAILS FOR  
SANITARY SEWERS

W. D. Anderson  
CITY ENGINEER  
P. E. Lic. No. 6313 Conn.

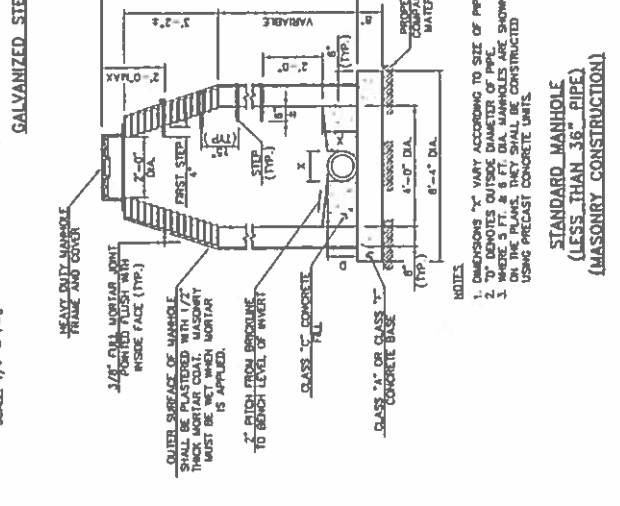
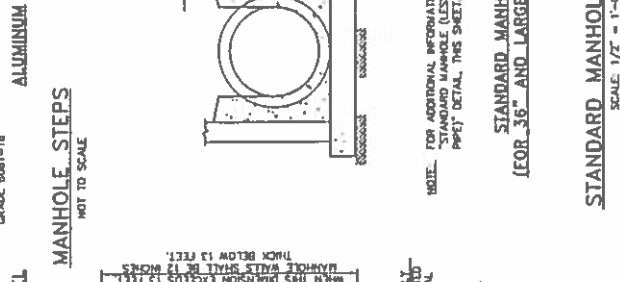
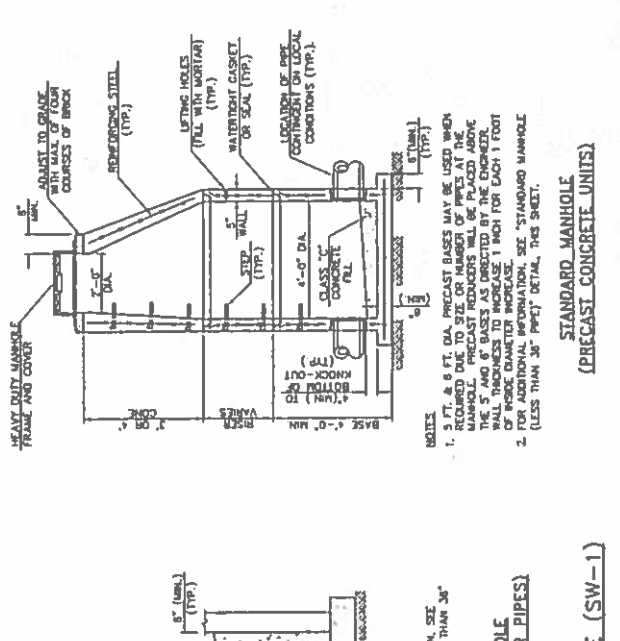
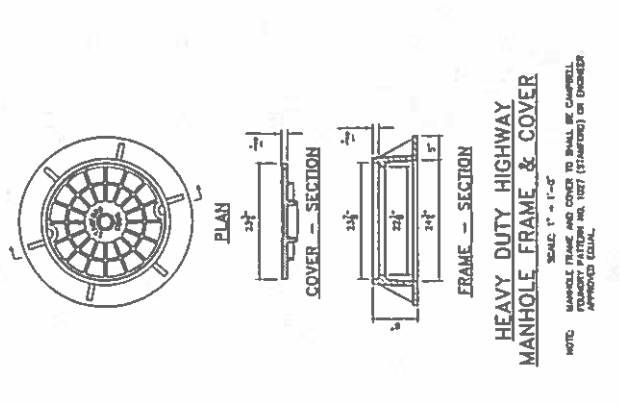
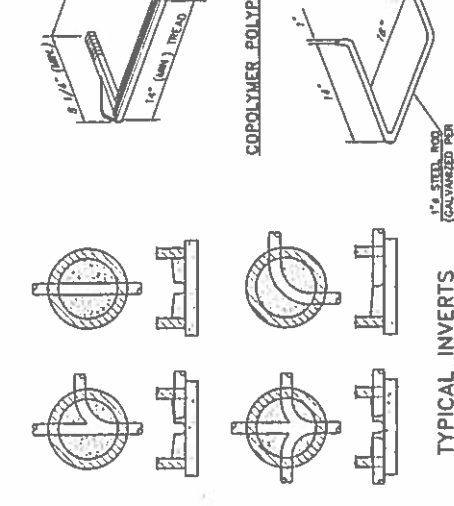
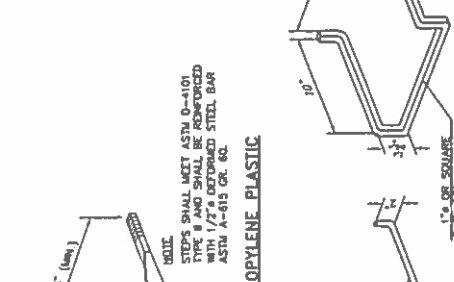
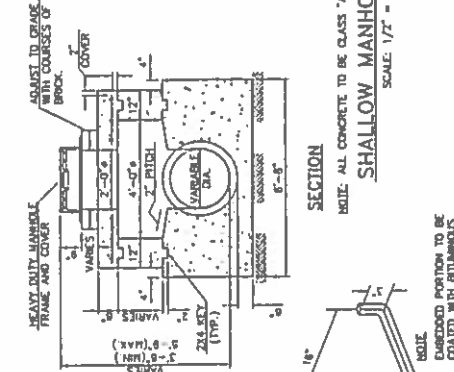
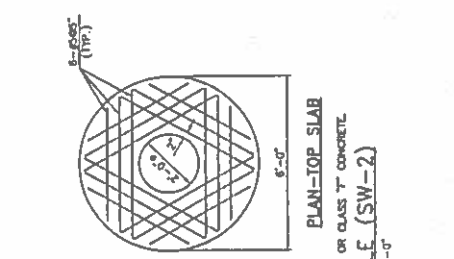
TYPICAL DETAIL SHOWING  
P.V.C. PIPE DEEP DROP  
CONNECTION IN NEW  
MANHOLES

NOTES  
1. ALL MANHOLES SHALL BE CONSTRUCTED TO A 15% SLOPE UNLESS OTHERWISE NOTED ON THE DRAWINGS.  
2. THE TOP OF MANHOLES SHALL BE FINISHED TO THE SAME ELEVATION AS THE TOP OF THE ADJACENT SIDEWALK OR DRIVEWAY.  
3. THE TOP OF THE COVER SHALL BE FINISHED TO THE SAME ELEVATION AS THE TOP OF THE ADJACENT SIDEWALK OR DRIVEWAY.  
4. THE TOP OF THE CURB SHALL BE FINISHED TO THE SAME ELEVATION AS THE TOP OF THE ADJACENT SIDEWALK OR DRIVEWAY.  
5. THE TOP OF THE BASE SHALL BE FINISHED TO THE SAME ELEVATION AS THE TOP OF THE ADJACENT SIDEWALK OR DRIVEWAY.  
6. THE TOP OF THE PIPE SHALL BE FINISHED TO THE SAME ELEVATION AS THE TOP OF THE ADJACENT SIDEWALK OR DRIVEWAY.  
7. THE TOP OF THE CONNECTION SHALL BE FINISHED TO THE SAME ELEVATION AS THE TOP OF THE ADJACENT SIDEWALK OR DRIVEWAY.

DEEP HOUSE LATERAL CONNECTION  
(CONTINUED)  
DWG. NO. SAN. 1



- NOTES**
1. CURTURE DESIGNATED AS "HEAVY DUTY" SHALL SAFELY WITHSTAND A5130 H2SO HEAVY LOADING.
  2. ALL STEEL TO BE STRUCTURAL GRADE CONFORMING TO ASTM A36.
  3. CAST IRON SHALL CONFORM TO ASTM A48 CLASS 20.
  4. SEAT OF MANHOLE FRAMES, EDGES AND BOTTOM OF COVERS SHALL BE TO THE SURFACE SO COVERS WILL NOT BIND OR ROCK ON FRAMES.
  5. FIRST STEP FROM TOP OF MANHOLE SHALL BE SHORTENED SO AS TO EXTEND NOT MORE THAN 2" FROM WALL OF MANHOLE. ALL OTHER STEPS SHALL EXTEND 6" FROM WALL.
  6. APPROVED CONCRETE BLOCK MAY BE USED IN LIEU OF BRICK IN THE CONSTRUCTION OF CATCH BASINS AND STORM MANHOLES.
  7. WHERE SHOWN, STEEL ITEMS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 FOR STEEL SHAPES AND PLATES, OR ASTM A133 FOR HARDWARE.
  8. REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING:  
 BAR REINFORCEMENT - ASTM A615 GRADE 60  
 WELDED WIRE FABRIC - ASTM A184  
 WELDED DEFORMED WIRE FABRIC - ASTM A497
  9. UNREINFORCED PIPES SHALL BE CUT FLUSH WITH INSIDE FACE OF C.B. WALL. REINFORCED PIPES SHALL BE CUT TO PROVIDE 1" RECESS INTO FACE OF C.B. WALL. CUT END SHALL THEN BE PATCHED WITH MORTAR FLUSH WITH WALL.
  10. ALL UNUSED KNOCK-OUTS SHALL BE BROCKED UP WHERE DIRECTED BY THE ENGINEER.



**NOTES**

1. DIMENSIONS TO VARY ACCORDING TO SIZE OF PIPE.
2. "D" DENOTES OUTSIDE DIAMETER OF PIPE.
3. WHERE 5 FT. & 6 FT. DIA. MANHOLES ARE SHOWN ON THE PLANS THEY SHALL BE CONSTRUCTED USING PRECAST CONCRETE UNITS.

**STANDARD MANHOLE (LESS THAN 36" PIPE) (MASONRY CONSTRUCTION)**  
 SCALE: 1/2" = 1'-0"

**NOTES**

1. PRECAST CONCRETE UNITS MAY BE USED WHEN REQUIRED ONE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5" AND 6" BASES AS DIRECTED BY THE ENGINEER. ALL THICKNESS TO INCREASE 1" FOR EACH 1 FOOT OF PIPE DIAMETER IN EXCESS OF 48" (LESS THAN 36" PIPE) DETAIL THIS SHEET.
2. FOR ADDITIONAL INFORMATION, SEE STANDARD MANHOLE (LESS THAN 36" PIPE) DETAIL THIS SHEET.

**STANDARD MANHOLE (PRECAST CONCRETE UNITS)**  
 SCALE: 1/2" = 1'-0"

**NOTES**

1. DIMENSIONS TO VARY ACCORDING TO SIZE OF PIPE.
2. "D" DENOTES OUTSIDE DIAMETER OF PIPE.
3. WHERE 5 FT. & 6 FT. DIA. MANHOLES ARE SHOWN ON THE PLANS THEY SHALL BE CONSTRUCTED USING PRECAST CONCRETE UNITS.

**STANDARD MANHOLE (LESS THAN 36" PIPE) (MASONRY CONSTRUCTION)**  
 SCALE: 1/2" = 1'-0"

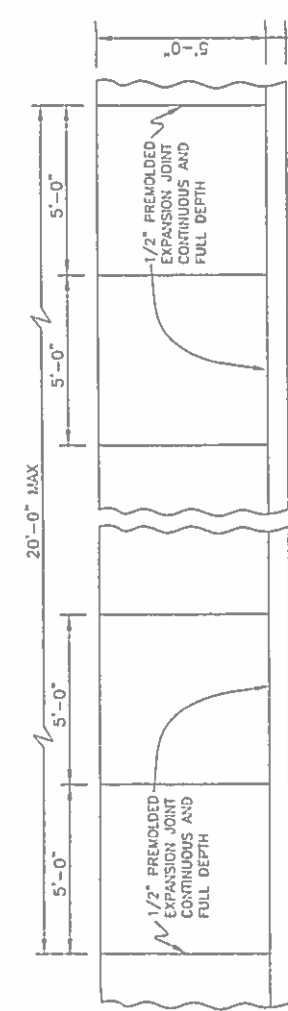
**NOTES**

1. DIMENSIONS TO VARY ACCORDING TO SIZE OF PIPE.
2. "D" DENOTES OUTSIDE DIAMETER OF PIPE.
3. WHERE 5 FT. & 6 FT. DIA. MANHOLES ARE SHOWN ON THE PLANS THEY SHALL BE CONSTRUCTED USING PRECAST CONCRETE UNITS.

**STANDARD MANHOLE (LESS THAN 36" PIPE) (MASONRY CONSTRUCTION)**  
 SCALE: 1/2" = 1'-0"







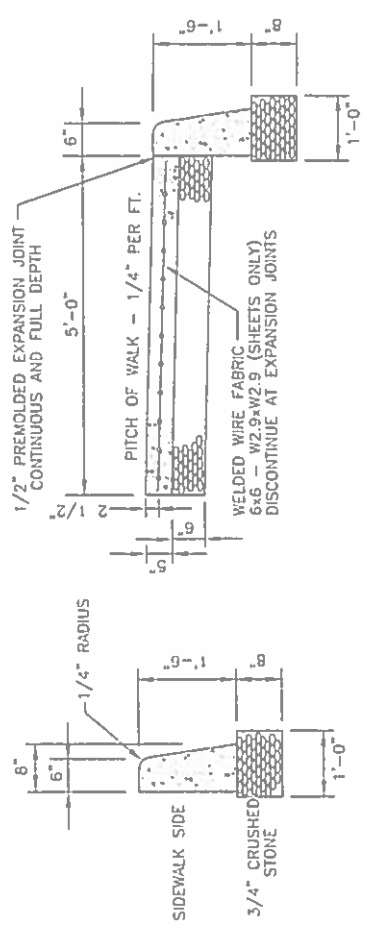
SIDEWALK SHALL BE LAID TO A UNIFORM DEPTH OF FIVE (5) INCHES UPON A SIX (6) INCH 3/4" CRUSHED STONE BASE. THE SURFACE EDGES SHALL BE ROUNDED TO A RADIUS OF 3/32 INCH.

A 1/2" APPROVED BITUMINOUS CURBING AND SIDEWALKS. A CONTROL JOINT SHALL BE MADE AT 5' AND BETWEEN NEW CONCRETE CURBING AND SIDEWALKS. ANY CHANGES REQUIRED BY LOCAL CONDITIONS SHALL BE MADE ONLY BY ORDER OF THE CITY ENGINEER. CONTROL JOINTS SHALL BE A MIN. DEPTH OF 1" OR D/4

**PLAN OF A SECTION OF CONCRETE SIDEWALK**

SCALE: 1/4" = 1'-0"

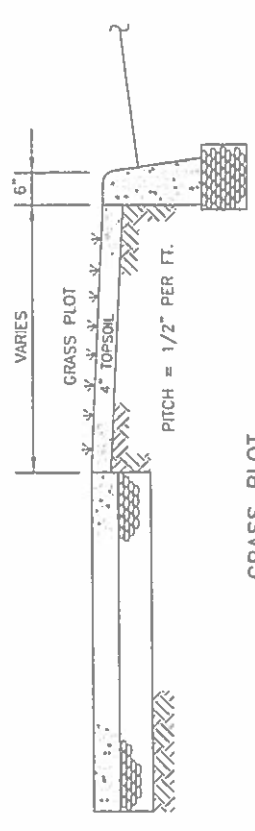
- NOTES:
- 1) A 1/2" PREMOULDED EXPANSION JOINT SHALL BE UTILIZED BETWEEN ALL RIGID STRUCTURES (INCLUDING WALLS) AND NEW SIDEWALK WORK.
  - 2) ADDITIONAL CONTROL JOINTS SHALL BE PLACED AS REQUIRED TO ELIMINATE ANY CONDITION WHICH WILL CAUSE STRESS VERTICES (EXAMPLE AT CORNERS OF STRUCTURES)
  - 3) CONCRETE SHALL BE CLASS "C" CEMENT TYPE II (3000 PSI MIN.)
  - 4) AIR ENTRAINMENT SHALL BE BETWEEN 6-7%



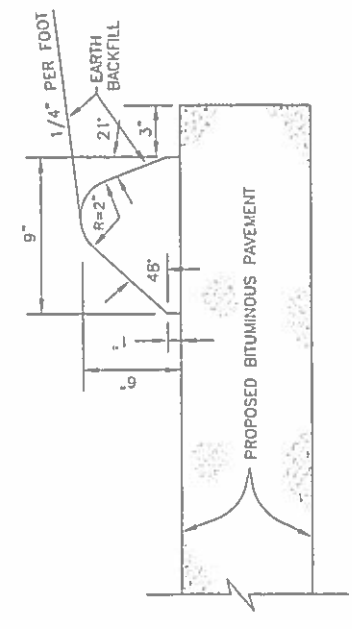
- NOTES:
- 1) ALL CURBING TO BE CAST-IN-PLACE.
  - 2) A 1/8" STEEL DIVISION PLATE SHALL BE PLACED AT EVERY 10 FEET OF CURBING & REMOVED AFTER CONCRETE HAS SET. A 1/2" APPROVED BITUMINOUS JOINT SHALL BE PLACED AT A MAX. OF EVERY 20 FEET CONCIDING WITH EXPANSION JOINT IN SIDEWALK
  - 3) CONTRACTOR TO CONSTRUCT 2" BATTER ON CONCRETE CURBING (STREET SIDE ONLY)

**STANDARD CURB & SIDEWALK**

SCALE: 1/2" = 1'-0"



**GRASS PLOT**



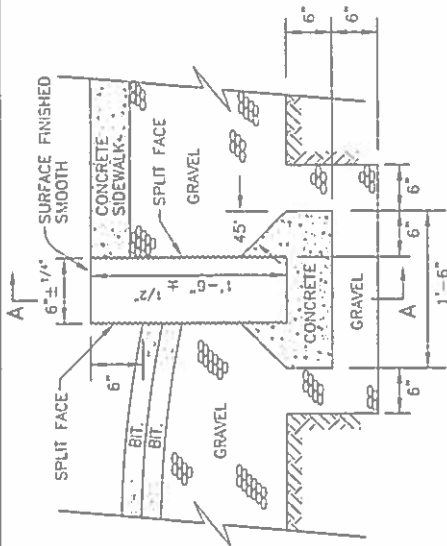
**BITUMINOUS CONCRETE LIP CURBING**

MACHINED FORMED

NO.	DATE	DESCRIPTION	CK.
1	1/11	Rev. Notes C.I.P. Curb	
REVISIONS			
FILE NO.			

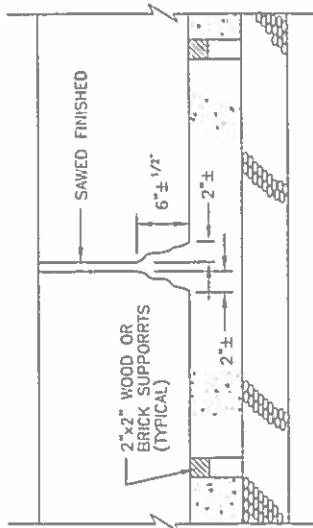
**CITY OF STAMFORD**  
ENGINEERING BUREAU  
SKETCHES & CALCULATIONS

Project No. & Name: STANDARDS  
Subject: SIDEWALKS & CURBING  
Made by: ELG Date: 6/16/99  
Chk. by: AI Date: 6/16/99  
SW-1 Sheet No. 1 of 2

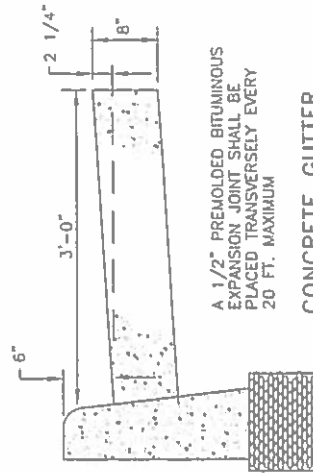


**GRANITE STONE CURB**

SCALE: 3/4" = 1'-0"



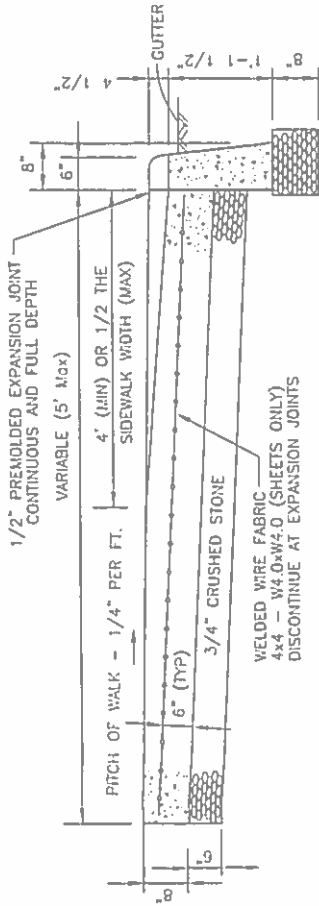
**SECTION A-A**



A 1/2" PREFORMED BITUMINOUS EXPANSION JOINT SHALL BE PLACED TRANSVERSELY EVERY 20 FT. MAXIMUM

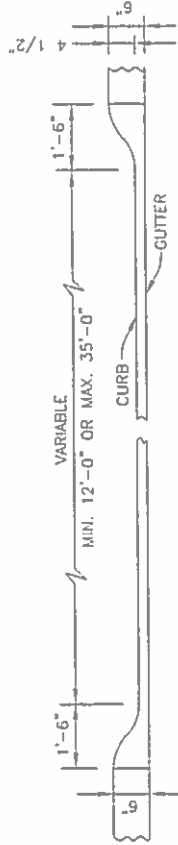
**CONCRETE GUTTER**

SCALE: 3/4" = 1'-0"



**STANDARD DRIVEWAY & HEAVY DUTY DRIVEWAY**

SCALE: 1/2" = 1'-0"



**TYPICAL CONSTRUCTION OF CURB AT DRIVEWAY**

SCALE: 1/2" = 1'-0"

**NOTES:**

1. ALL REINFORCING SHALL BE SUPPORTED ON CHAIRS OR OTHER POSITIVE TYPE SUPPORTS APPROXIMATELY ONE PER 25 SQ. FT.
2. CONCRETE SHALL BE CLASS "C" CEMENT TYPE II, 3000 PSI
3. AIR ENTRAINMENT SHALL BE BETWEEN 6 - 7%.
4. ALL CURBING TO BE CAST-IN-PLACE.

2	1/11	Rev. Notes C.I.P. Curb	CK.
1	8/99	Rev. Driveway X-Sept.	CK.
NO. DATE		DESCRIPTION	REVISIONS
FILE NO.			

Project No. & Name: **STANDARDS**

Subject: **SIDEWALKS & CURBING**

Made by: **ELG** Date: **6/16/99**

Chk. by: **AI** Date: **6/16/99**

Sheet No. **2** of **2**

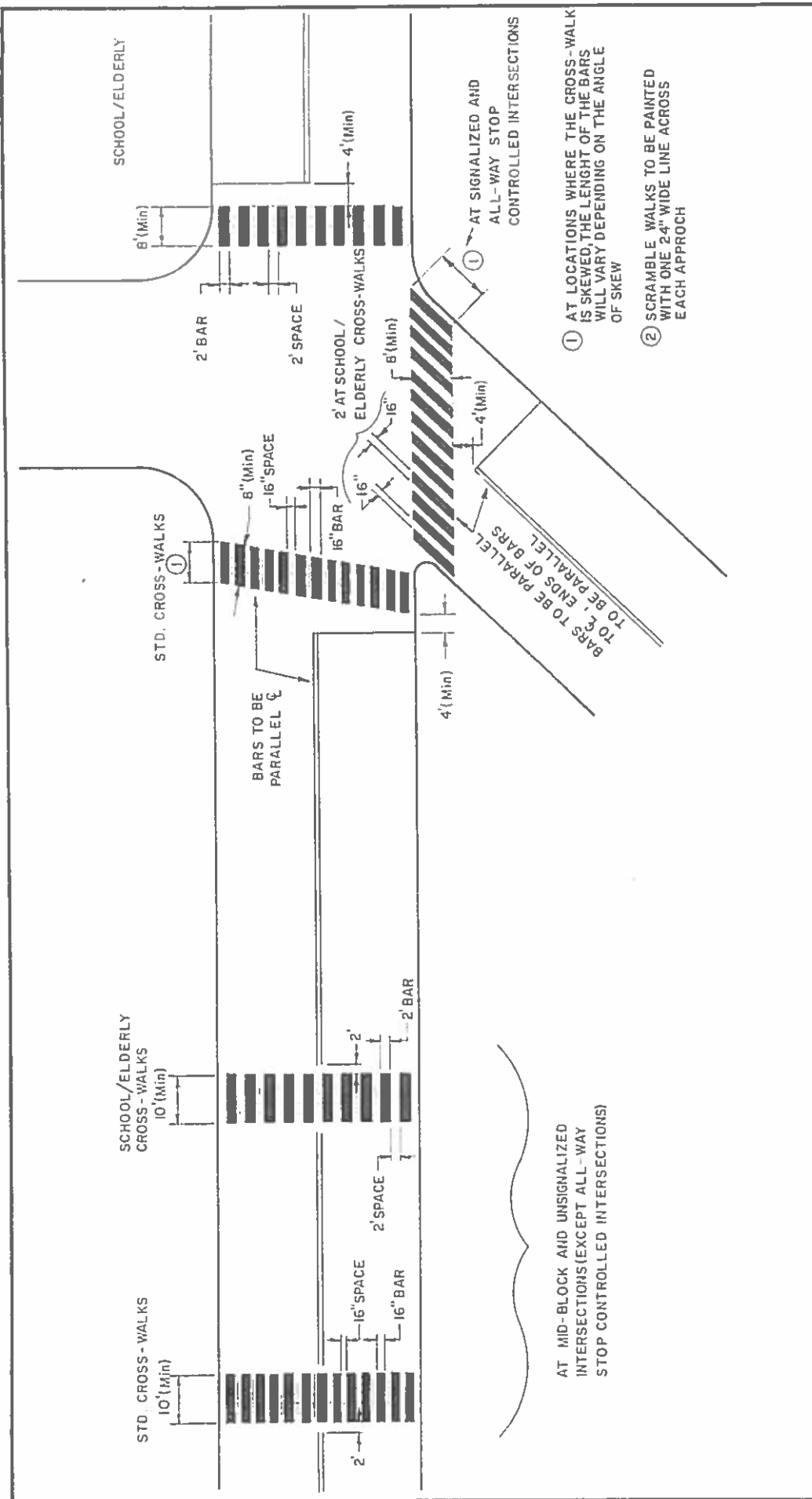
**CITY OF STAMFORD**

**ENGINEERING BUREAU**

**SKETCHES & CALCULATIONS**



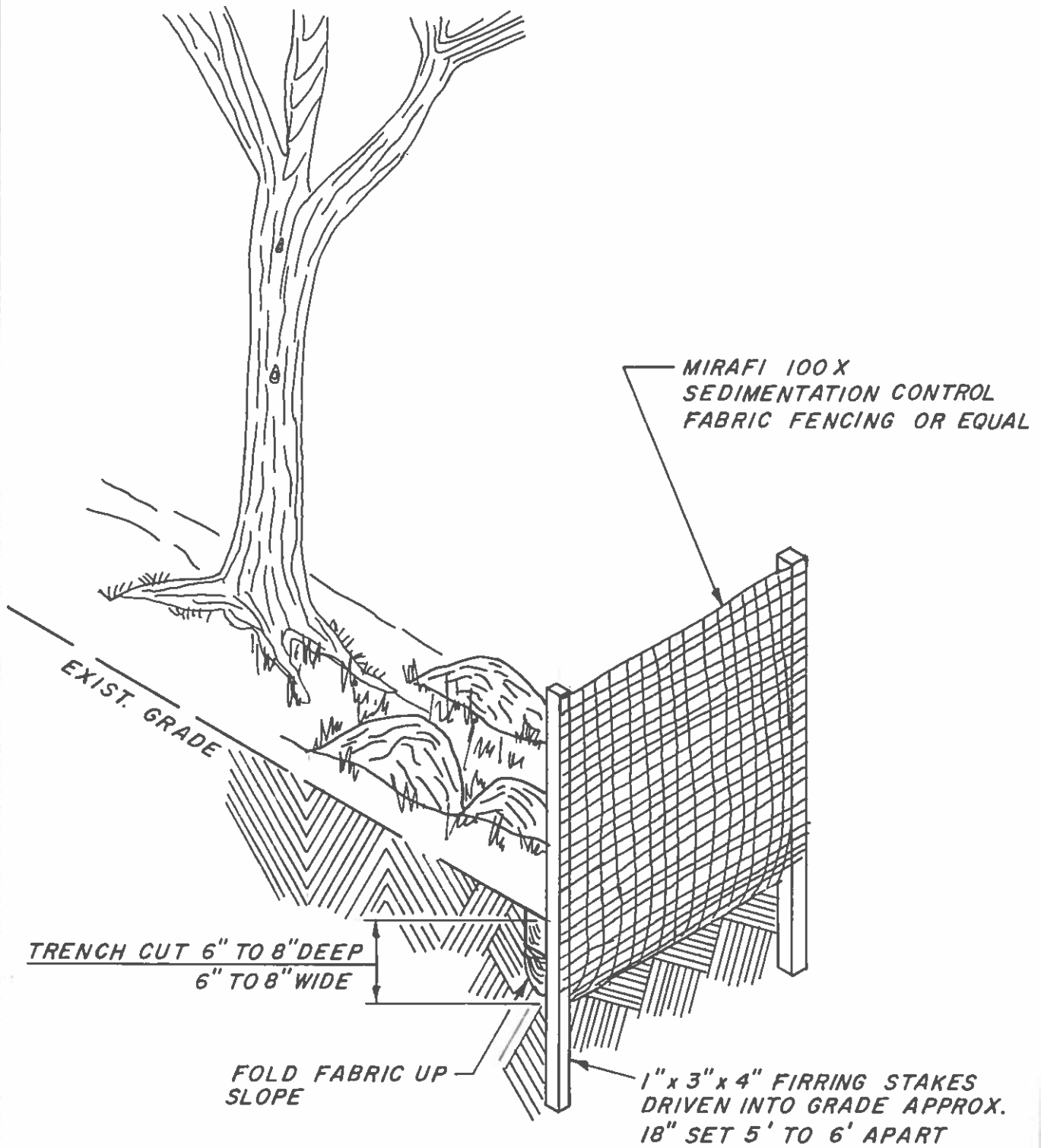




- ① AT LOCATIONS WHERE THE CROSS-WALK IS SKEWED THE LENGTH OF THE BARS WILL VARY DEPENDING ON THE ANGLE OF SKEW
- ② SCRAMBLE WALKS TO BE PAINTED WITH ONE 24" WIDE LINE ACROSS EACH APPROACH

Project No & Name \_\_\_\_\_  
 Subject TYPICAL CROSSWALK DIAGRAM  
 Made by R. TOZZOLI Date 8 / 1 / 95  
 Chk. by \_\_\_\_\_ Date \_\_\_\_\_  
 Sheet No.    of   

**CITY OF STAMFORD**  
**ENGINEERING BUREAU**  
**SKETCHES & CALCULATIONS**

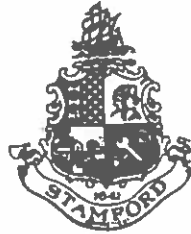


**NOTE:**

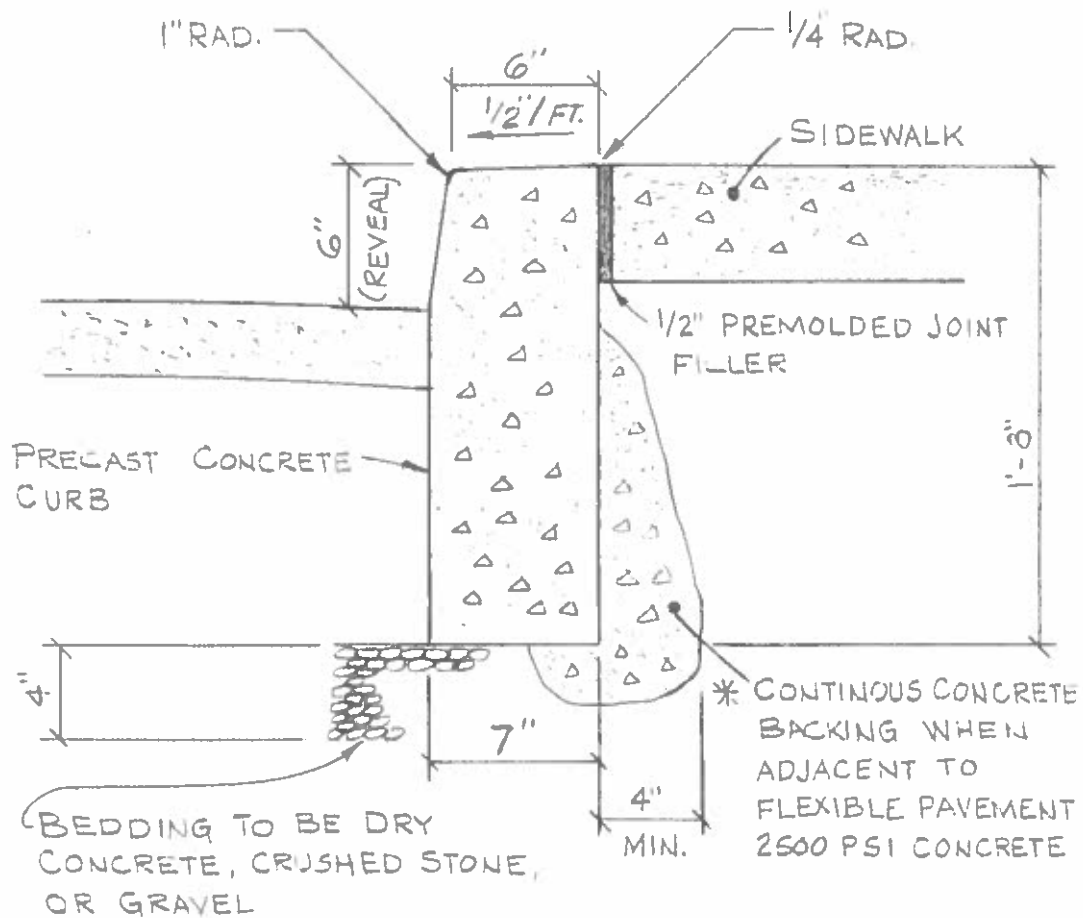
AFTER FOLDING FABRIC EDGE BACKFILL  
TRENCH WITH ORIGINAL SOIL AND BUTTRESS  
THE SPLAY WITH MULCH OF LEAF LITTER

DETAIL  
FILTER FENCE  
N.T.S.

**CITY OF STAMFORD**  
**ENGINEERING BUREAU**  
**SKETCHES & CALCULATIONS**



Project No. & Name :	Made: R.T.	Date 2-3-94	Sht. 1 of 1
Subject: PRE-CAST CONCRETE CURB	Chk.: P.B.	Date 2-4-94	COMMENTS



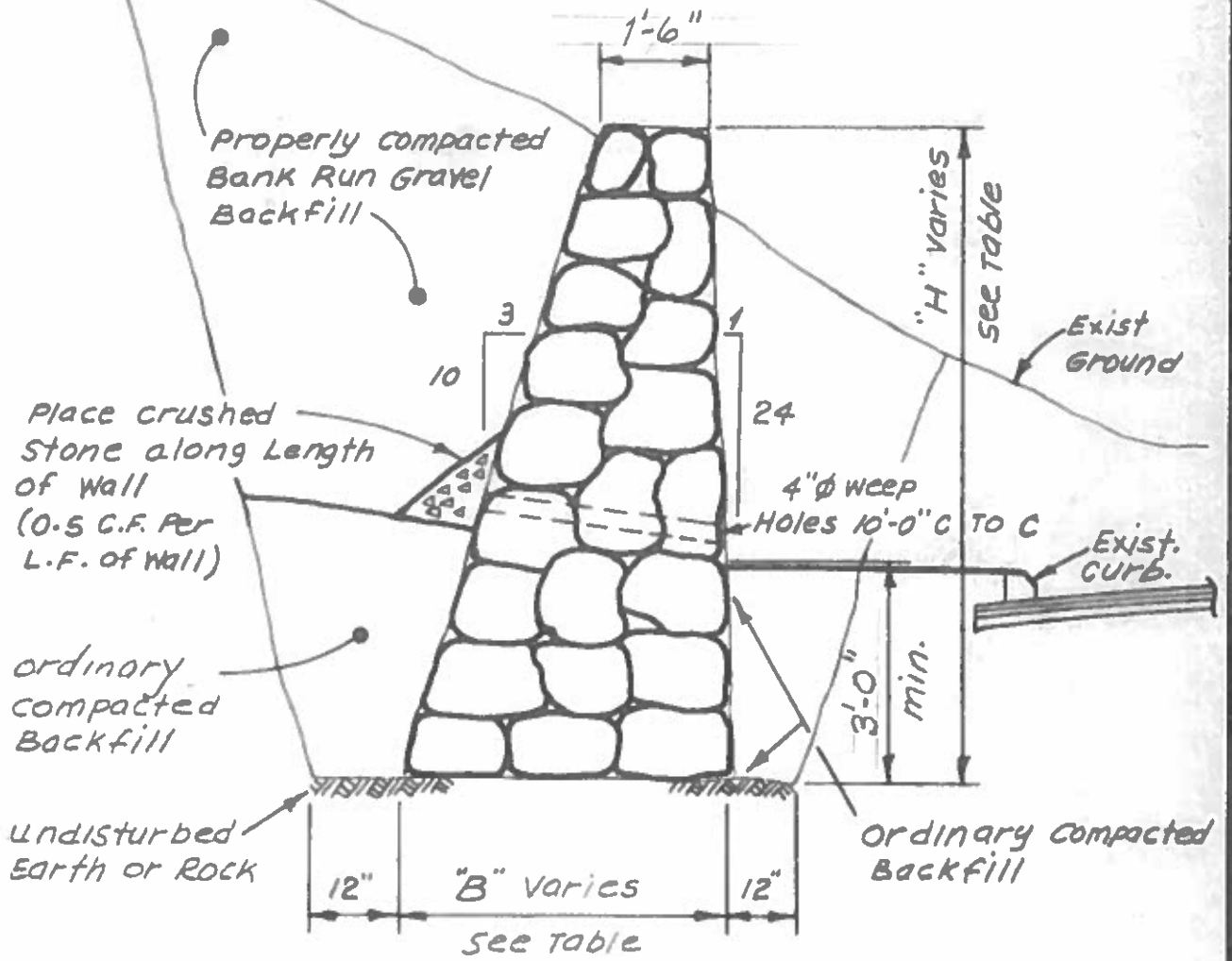
TYPICAL DETAIL PRE-CAST CONCRETE CURB

(N.T.S.)

\* WHEN CURBING IS INSTALLED ADJACENT TO RIDGED PAVEMENT CONCRETE BACKING SHALL BE PLACED BEHIND CURB JOINTS FOR A MIN. OF 12 INCHES EACH SIDE OF JOINT

# TABLE FOR WALL DIMENSIONS

B	H
3'-7"	6'
4'-3"	8'
4'-11"	10'
5'-7"	12'
6'-3"	14'



## TYPICAL DETAIL

# CEMENT RUBBLE MASONRY WALL (N.T.S.)

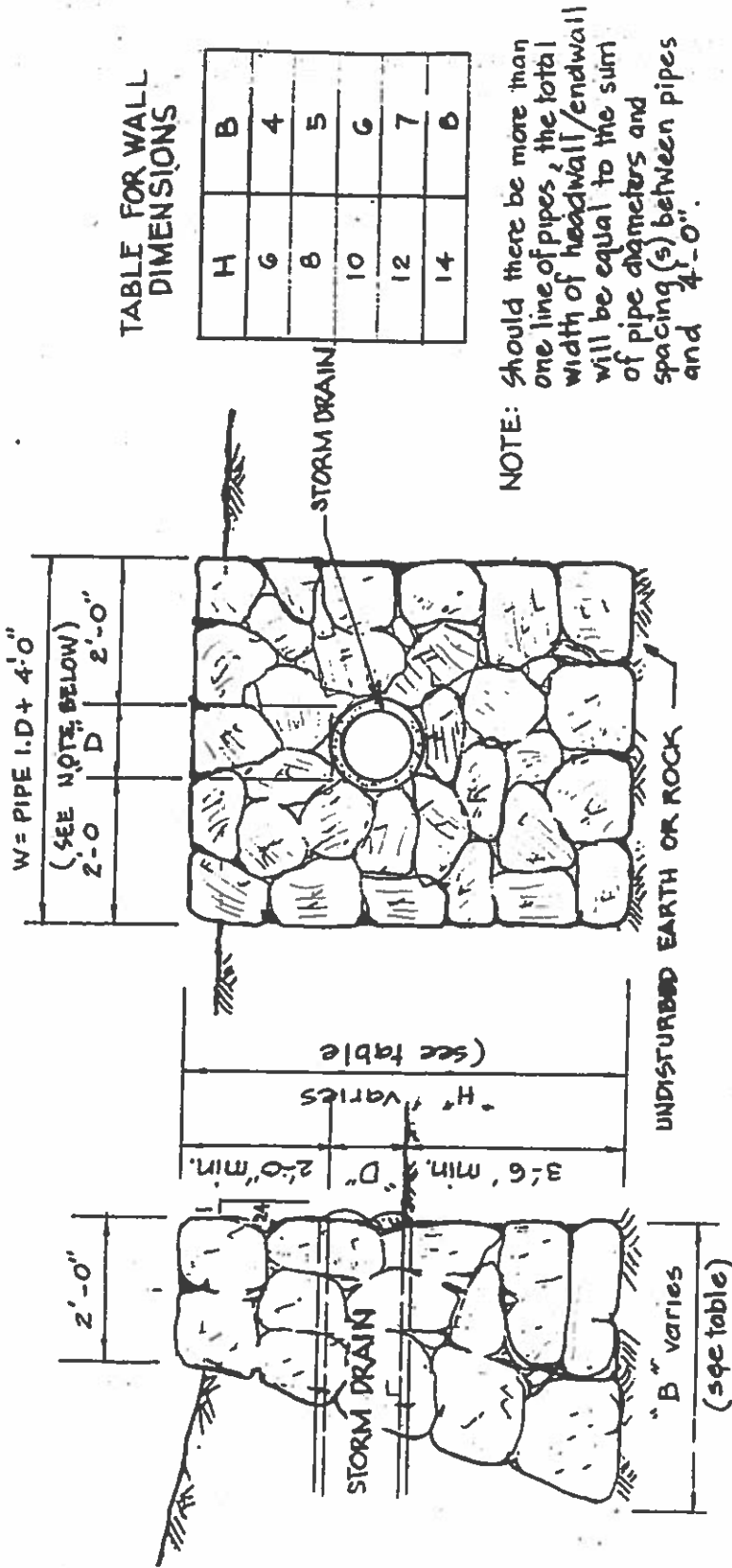


TABLE FOR WALL DIMENSIONS

H	B
6	4
8	5
10	6
12	7
14	8

NOTE: Should there be more than one line of pipes, the total width of headwall/endwall will be equal to the sum of pipe diameters and spacing(s) between pipes and 4'-0".

**CEMENT RUBBLE MASONRY HEADWALL/ENDWALL**

n. t. s.

CITY OF STAMFORD

ENGINEERING BUREAU

SKETCHES & CALCULATIONS

Project No. & Name \_\_\_\_\_  
 Subject \_\_\_\_\_  
 Made by C. B. Cox Date \_\_\_\_\_  
 Chk. by \_\_\_\_\_ Date \_\_\_\_\_