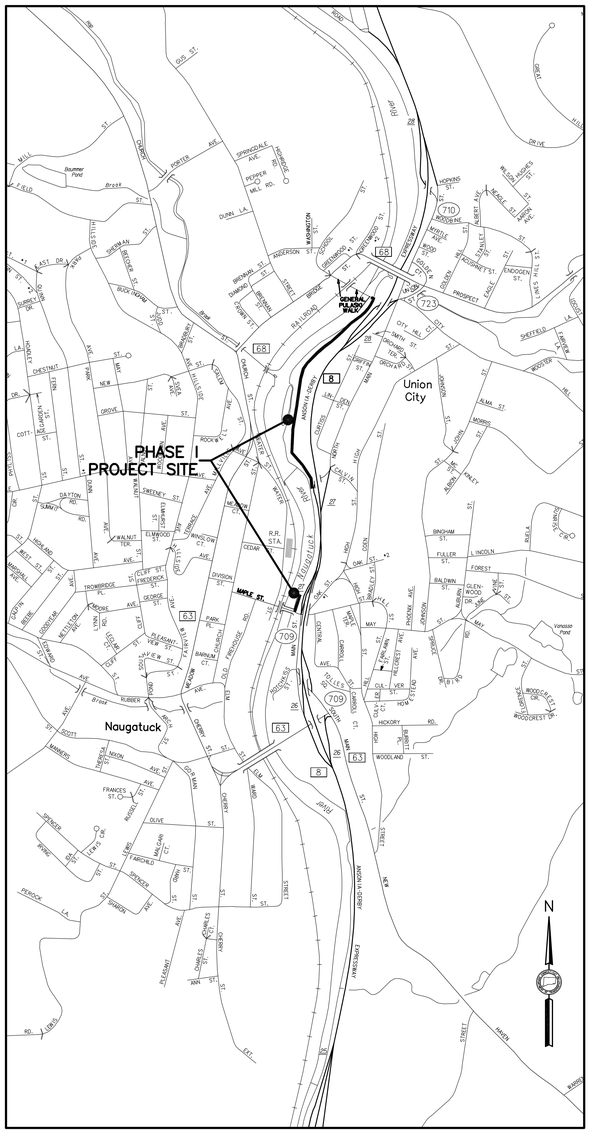


PROJECT VICINITY MAP

1"=1,000'

BOROUGH OF NAUGATUCK
PLAN

FOR

NAUGATUCK PEDESTRIAN GREENWAY
PHASE 1 - NAUGATUCK, CONNECTICUT

MAPLE STREET TO GENERAL PULASKI WALK

FROM STA. 10+00 TO STA. 62+39

LENGTH: 5,239 LF

DESIGN SCALES { **PLAN 1"=20'** / **CROSS SECTIONS 1"=5'**

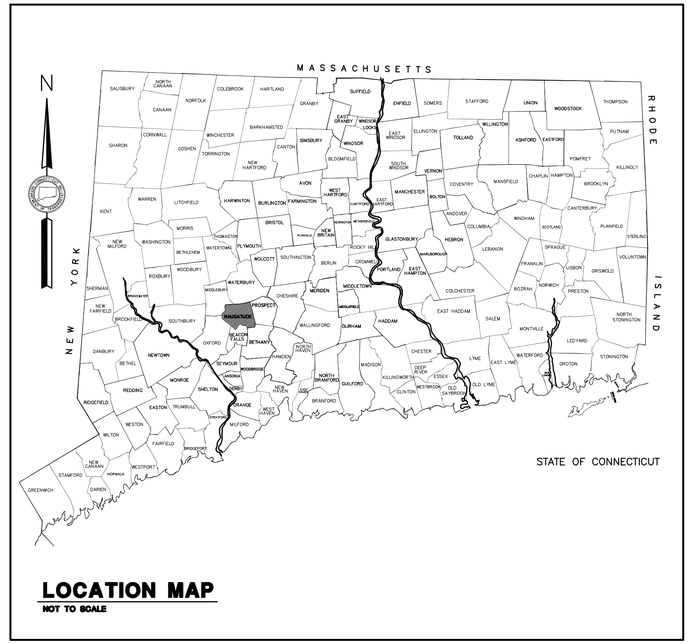
OTHER SCALES AS NOTED

CONSTRUCTION DRAWINGS

TO BE MAINTAINED BY THE BOROUGH OF NAUGATUCK

STATE PROJECT# 87-143

FAP# PEDS(090)



LOCATION MAP

NOT TO SCALE

2004 CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FORM 816, SUPPLEMENTAL SPECIFICATIONS THERETO DATED JULY 2010, AND PROJECT SPECIAL PROVISIONS GOVERN.
HORIZONTAL DATUM IS BASED ON N.A.D. 1983
VERTICAL DATUM IS BASED ON N.G.V.D. 1929

LIST OF DRAWINGS

SHEET IN SET.	SHEET NUMBER	SHEET TITLE
01	–	TITLE SHEET
02	DE	DETAILED ESTIMATE SHEET
03	IN	INDEX SHEET
04	NL	NOTES AND LEGEND
05–12	EX–1 – EX–8	EXISTING CONDITIONS
13–18	LA–1 – LA–6	SITE PLAN – LAYOUT & LANDSCAPING
19–22	GR–1 – GR–4	SITE PLAN – GRADING, UTILITIES, SEDIMENT & EROSION CONTROLS
23–26	EL–1 – EL–4	ELECTRICAL DRAWINGS
27	SD–1	SEDIMENT AND EROSION CONTROL NOTES & DETAILS
28–29	SD–2 – SD–3	SITE DETAILS
30	SPM	SIGNAGE AND PAVEMENT MARKING DETAILS
31–42	S–1 –S–12	STRUCTURAL PLANS
43–46	MPT1 – MPT4	MAINTENANCE AND PROTECTION OF TRAFFIC – PLANS & SECTIONS
47–48	D–1 – D–2	DETOUR PLAN

STANDARD DRAWINGS

DWG. NO.	SHEET TITLE	F.H.W.A APPROVAL DATE
HW–0811_01	CURBING	
HW–0822_01	TEMPORARY PRECAST CONCRETE BARRIER CURB	
HW–0921_01	DRIVEWAY RAMPS AND SIDEWALKS	
HW–0921_02	SIDEWALK RAMPS	
HW–0949_01	PLANTING DETAILS FOR TREES	
HW–0949_02	PLANTING DETAILS FOR SHRUBS	
TR–1001_01	TRENCHING & BACKFILLING, ELECTRICAL CONDUIT	
TR–1010_01	CONCRETE HANDHOLE	
TR–1103_01	SPAN POLE, ALTERNATE FLASHING SIGNALS FOR WARNING SIGNS	
TR–1205_01	DELINEATION, DELINEATORS AND OBJECT MARKER DETAILS	
TR–1208_01	SIGN SUPPORT AND SIGN PLACEMENT DETAILS, GORE EXIT SIGN	
TR–1208_02	METAL SIGN POSTS AND SIGN MOUNTING DETAILS	
TR–1210_02	PAVEMENT MARKINGS (DURABLE MARKINGS) FOR DIVIDED HIGHWAY	
TR–1220_01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS	
TR–1220_02	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES	

SUBMITTED BY:

Milone & MacBroom, Inc. **DATE**

APPROVED BY:

DIRECTOR OF PUBLIC WORKS NAUGATUCK **DATE**

MILONE & MACBROOM®
Engineering, Landscape Architecture and Environmental Science
99 Realty Drive
Cheshire, Connecticut 06410
(203) 271-1773 Fax (203) 272-9733
www.miloneandmacbroom.com

In Association With:

SILVER / PETRUCELLI + ASSOCIATES
Architects and Engineers
3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucelli.com

2129-11
MMI PROJECT NO.

TITLE SHEET

SHEET NO. 01 OF 48

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE TOWN AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OR WORK WHICH WILL BE REQUIRED.

DETAILED ESTIMATE SHEET

F.H.W.A REGION NO.	STATE PROJECT NO.	STATE	TOWN	FED. AID PROJECT NO	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
	87-143	CONN.	NAUGATUCK	PEDS(89) - PE PHASE	2011		2	48

NAUGATUCK PEDESTRIAN GREENWAY - PHASE 1, NAUGATUCK, CONNECTICUT

BASE BID

SHEET NUMBER		0201001A	0202002	0202101	0202447	0202451A	0202512	0202513A	0202529	0202532A	0202540A	0202541A	0203001	0203101	0205001	0205002	0209001	0210100A	0212002	0219001	0219011	0406005A	0406442	0406444	0507215	0507600	0507601	0601101	0601445A	0601446A	0601651A	0601652A	0602001	0603061A	0651001	0651012	0651837	0811001	0815001	0821127	0822017	0821176	0901003A	0906302A	0912519A	0913000	0914015A	0914016A	0914019A	0921001	0921015A	0922001	0922250A
	ITEM DESCRIPTION	Clearing and Grubbing	Earth Excavation	Rock Excavation	Cold Milling Removal of Bituminous Concrete	Test Pit Excavation	Cut Concrete Sidewalk	Removal of Concrete Sidewalk	Cut Bituminous Concrete Pavement	Removal of Bituminous Type Pavement	Partial Removal of Steel Bin Wall	Removal of Debris at Bridge Pier	Structural Excavation - Earth (Complete)	Structural Excavation - Rock (Complete)	Trench Excavation 0'-4' Deep	Rock in Trench Excavation 0'-4' Deep	Formation of Subgrade	Anti-Tracking Pad	Subbase	Sedimentation Control System	Sedimentation Control at Catch Basin	Permanent Pavement Repair	Superpave 0.5" (Entrance Ramp)	Superpave 1.0" (Entrance Ramp)	Special Type C-L Catch Basin	Remove Catch Basin	Manhole (Storm)	Class 'C' Concrete	Embankment Wall (Site No. 1)	Embankment Wall (Site No. 2)	Retaining Wall (Site No. 3)	Retaining Wall (Site No. 4)	Deformed Steel Bars	Structural Steel (Site No. 1)	Bedding Material	15" R.C. Pipe	15" C.C.M. Pipe	Concrete Curb	Bituminous Concrete Lip Curbing	Removal of Precast Concrete Barrier Curb	Temporary Precast Concrete Barrier Curb with Chain Link Fence	Precast Concrete Barrier Curb (27" X 42")	Removable Ornamental Steel Bollard	Three Rail Wood Fence	Remove & Reset Metal Beam Rail	Remove Chain Link Fence	Ornamental Metal Fence (3.5' High)	Ornamental Metal Fence (4.5' High)	Ornamental Metal Fence (6' High)	Concrete Sidewalk	Unit Paver Sidewalk	Bituminous Concrete Sidewalk	Bituminous Concrete Trail
	UNIT	LS	CY	CY	SY	EA	LF	SY	LF	SY	LS	LS	CY	CY	CY	CY	SY	SY	CY	LF	EA	SY	Ton	Ton	Ea	Ea.	Ea.	CY	LS	LS	LS	LS	LB	LS	CY	LF	LF	LF	LF	LF	LF	LF	EA	LF	LF	LF	LF	LF	LF	SF	SY	SY	SY
	BASE	LS	285	15	500	6	30	60	800	1,260	LS	LS	30	10	16	1	900	250	250	1,500	8	15	250	300	1	1	1	20	LS	LS	LS	LS	2,300	LS	6	20	38	85	55	390	40	200	6	145	65	370	24	610	165	775	210	118	1,200

SHEET NUMBER		0939001A	0944002A	0949000A	0949069A	0949085A	0949231A	0949255A	0949298A	0949389A	0949463A	0949710A	0949756A	0949933A	0949950A	0949913A	0950019A	0950029A	0952001	0952051A	0953001	0969050A	0970006A	0971001A	0974000	0975002	0978002	0979003A	0980001	0981100	0992084A	0992085A	0992090A	0992091A	0992092A	0992095A	1001001	1003952A	1003912A	1003916A	1008128	1008215A	1010901A	1010902	1012031	1015001	1015021	1205209
	ITEM DESCRIPTION	Sweeping for Dust Control	Furnish and Place Topsoil	Wood Chip Mulch	Hemerocallis "Stella D'oro" (Stella D'oro Daylily)	Clethra alnifolia 'Hummingbird' (Dwarf Summersweet)	Ilex glabra 'Shamrock' (Shamrock Inkberry)	Juniperus horizontalis 'Mother Lode' (Mother Lode Juniper)	Fothergilla gardenii (Dwarf Fothergilla)	Azalea 'Delaware Valley White' (Delaware Valley White Azalea)	Ulmus americana 'Princeton' (American Elm)	Amelanchier canadensis (Shadblow)	Acer saccharum 'Green Mountain' (Sugar Maple)	Acer rubrum 'Red Sunset' (Red Maple)	Carpinus betulus 'Frans Fontaine' (Frans Fontaine Hornbeam)	Betula nigra 'Heritage' (Heritage River Birch)	Turf Establishment - Lawn	Turf Establishment - New England Mix	Selective Pruning and Thinning	Control & Removal of Invasive Species	Sod	Construction Field Office, Small	Traffic Person (Uniformed Officer)	Maintenance & Protection of Traffic	Removal of Existing Masonry	Mobilization	Traffic Drum	Construction Barricade Type III	Construction Staking	42" Traffic Cone	Information Kiosk	Information Sign	Bench	Trash Receptacle	Bike Rack	Gateway Sign	Trenching and Backfilling	Concrete Foundation (provided by CL&P)	Remove Concrete Light Standard Base	Remove and Relocate Light Standard	2.5" Polyvinyl Chloride Conduit in Trench	2" Rigid Metal Conduit Under Pavement	Remove and Relocate Concrete Handhole	Remove Concrete Handhole	No.2 Single Conductor	No. 8 Bare Copper Grounding Conductor	3/4" x 10' Ground Rod	Type DE-9 Delineator
	UNIT	HR	SY	SY	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	SY	SY	LS	SY	SY	Month	Est.	LS	CF	LS	EA	EA	LS	Ea	EA	EA	EA	EA	EA	LF	EA	EA	EA	LF	LF	EA	EA	LF	LF	EA	Ea
	BASE	50	2,250	250	130	4	11	30	21	6	5	2	5	2	3	4	1,636	615	LS	400	115	6	1	LS	60	LS	8	6	LS	25	1	3	5	4	3	1	425	1	2	2	375	100	1	1	1,125	375	1	1

SHEET NUMBER		1206023A	1208906A	1210101	1210102	1220011A	1208928
	ITEM DESCRIPTION	Removal and Relocation of Existing Signs	Sign Face Sheet Aluminum- Bright (Wide Angle Retroreflective Sheeting	4" White Epoxy Resin Pavement Markings	4" Yellow Epoxy Resin Pavement Markings	Construction Signs - Type III Reflective Sheeting	Sign Face - Sheet Aluminum (Type III Reflective Sheeting)
	UNIT	LS	SF	LF	LF	SF	SF
	BASE	LS	20	455	705	250	35

ADD ALTERNATE #1

SHEET NUMBER		0963512A
	ITEM DESCRIPTION	Add Alternate No.1 (River Access Area Complete)
	UNIT	LS
	BASE	LS

ADD ALTERNATE #2

SHEET NUMBER		0963513A
	ITEM	Add Alternate No.2 (Tree Planting Complete)
	UNIT	LS
	BASE	LS

ADD ALTERNATE #3

SHEET NUMBER		0601019A	0603253A	0603444A	0603563A	0603823A	0914013A	0914050	1002008A	1002101	1003595A	1008012A	1008212A	1015021	1017103A
	ITEM	Chemically Stain Concrete	Disposal of Lead Debris	Lead Health Protection Program (LHPP)	Class I Containment & Collection of Surface Debris (Site No. 1)	Abrasive Blast Cleaning And Field Painting of the Structure (Site No. 1)	Ornamental Metal Fence (2.25' High)	Removal of Existing Bridge Rail	Light Pole and Fixtures (Decorative)	Light Standard Foundation - Type II	Decorative Light Pole and Light Fixture (Bridge)	1" Rigid Metal Conduit - Surface	1" Rigid Metal Conduit Under Pavement	3/4" x 10' Ground Rod	Service Entrance and Cabinet (100A Service)
	UNIT	SF	BBL	LS	LS	LS	LF	LF	EA	EA	EA	LF	LF	EA	LS
	BASE	1,850	10	LS	LS	LS	410	410	2	2	5	8,000	45	2	LS

CONSTRUCTION DRAWINGS

DETAILED ESTIMATE SHEET

NAUGATUCK PEDESTRIAN GREENWAY
PHASE 1
MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
FEDERAL PROJECT NO. PEDS(090)

MTD DESIGNED	MTD DRAWN	MRA CHECKED
SCALE 1"=20'		
DATE JANUARY 5, 2012		

Engineering, Landscape Architecture and Environmental Science
MILONE & MACBROOM®
99 Realty Drive
Cheshire, Connecticut 06410
(203) 271-1773 Fax (203) 272-9733
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2129-11 PROJECT NO.

DE SHEET NO. 02 OF 48

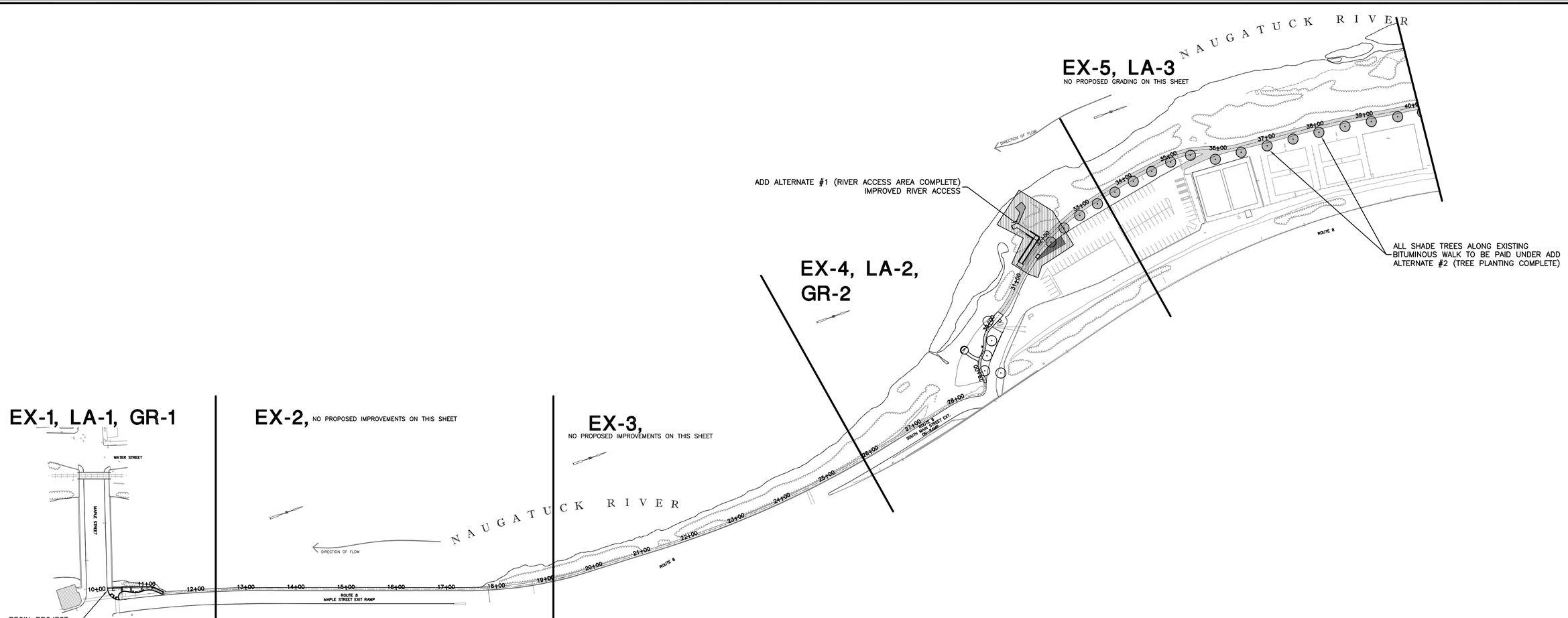
EX-1, LA-1, GR-1

EX-2, NO PROPOSED IMPROVEMENTS ON THIS SHEET

EX-3, NO PROPOSED IMPROVEMENTS ON THIS SHEET

EX-4, LA-2, GR-2

EX-5, LA-3
NO PROPOSED GRADING ON THIS SHEET



BEGIN PROJECT
STA: 10+22

ADD ALTERNATE #1 (RIVER ACCESS AREA COMPLETE)
IMPROVED RIVER ACCESS

ALL SHADE TREES ALONG EXISTING
BITUMINOUS WALK TO BE PAID UNDER ADD
ALTERNATE #2 (TREE PLANTING COMPLETE)

EX-6, LA-4,
NO PROPOSED GRADING ON THIS SHEET

EX-7, LA-5, GR-3

EX-8, LA-6, GR-4

ALL SHADE TREES ALONG EXISTING
BITUMINOUS WALK TO BE PAID UNDER ADD
ALTERNATE #2 (TREE PLANTING COMPLETE)

ADD ALTERNATE #3 GENERAL PULASKI PEDESTRIAN BRIDGE IMPROVEMENTS

END PROJECT
STA: 62+39

0 (1/2") 50' (1") 100' 200' 300'

CONSTRUCTION DRAWINGS

INDEX SHEET

NAUGATUCK PEDESTRIAN GREENWAY
PHASE 1
MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
FEDERAL PROJECT NO. PEDS(090)

MTD DESIGNED	MTD DRAWN	VCM CHECKED
SCALE 1"=100'		
DATE JANUARY 5, 2012		

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2129-11
PROJECT NO.

IN

GENERAL NOTES:

1. UTILITIES WERE PLOTTED FROM UTILITY MAPS PROVIDED BY RESPECTIVE COMPANIES AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR MUST CALL "CALL BEFORE YOU DIG" 72 HOURS PRIOR TO ANY EXCAVATION (1-800-922-4455) AND VERIFY EXISTING UTILITIES.
2. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO CONSTRUCTION.
3. PROPERTY AND STREET R.O.W. LINES AS SHOWN ARE A COMPILATION BASED ON EXISTING MAPPING AS RECORDED ON THE BOROUGH'S LAND RECORDS AND FROM THE STATE OF CONNECTICUT HIGHWAY DEPARTMENT TITLED "TOWN OF NAUGATUCK MAP SHOWING LAND TO BE TRANSFERRED TO THE STATE BOARD OF FISHERIES AND GAME BY THE STATE HIGHWAY DEPARTMENT NAUGATUCK-WATERBURY ROAD" DATED MARCH 1966 AT A SCALE OF 1"=40' SHEETS 1 OF 2 AND 2 OF 2.
4. SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO BOTH THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - REVISED 2002" AND CONNECTICUT DOT'S 816, SECTION 1.10 - ENVIRONMENTAL COMPLIANCE. IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING ROADWAYS AND DRIVEWAYS DURING CONSTRUCTION REFER TO SPECIAL PROVISION ITEM NO. 0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC.
6. BASE MAP INFORMATION, INCLUDING TOPOGRAPHIC INFORMATION, IS BASED UPON AERIAL SURVEY CONDUCTED BY GOLDEN AERIAL SURVEYS, INC. COMBINED WITH SUPPLEMENTAL FIELD SURVEY BY MILONE AND MACBROOM, INC.
7. MILONE AND MACBROOM INC. ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
8. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE BOROUGH OF NAUGATUCK REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 816, 2004 AND ADDENDUMS.
9. COORDINATES ARE BASED UPON THE CONNECTICUT STATE PLANE COORDINATE SYSTEM (NAD 1983).
10. ELEVATIONS ARE BASED UPON NGVD 1929.
11. CONTRACTOR MUST COORDINATE PROPOSED LOCATION(S) OF ANTI-TRACKING PAD(S) WITH BOROUGH ENGINEER PRIOR TO COMMENCING WORK.
12. LOCATE AND PLACE SILT FENCE UNDER DIRECTION OF PROJECT ENGINEER.
13. CONTRACTOR SHALL STAKE THE CENTERLINE OF THE PROPOSED TRAIL AND CONTACT THE PROJECT ENGINEER AT LEAST TWO WEEKS PRIOR TO CLEARING OPERATIONS AND/OR CONSTRUCTION OPERATIONS. AT THAT TIME THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT WILL WALK THE TRAIL WITH THE CONTRACTOR AND IDENTIFY VEGETATION TO BE SAVED. SEE SPECIAL PROVISION FOR 'CLEARING AND GRUBBING IN SPECIFICATIONS.
14. ALL DISTURBED AREAS SHALL RECEIVE A MIN. OF 6" TOPSOIL, AND BE SEEDED FOR TURF ESTABLISHMENT OR SOD, AS SHOWN ON THE PLANS.
15. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.
16. THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE EXECUTION OF WORK. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODES.
17. ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS. ALL MATERIALS ARE TO BE STORED OUTSIDE OF THE 100-YEAR FLOODPLAIN AND FLOODWAY.
18. ALL EXCAVATED MATERIALS WITHIN THE PROJECT LIMITS MUST REMAIN WITHIN THE PROJECT SITE.

GENERAL CONSTRUCTION SEQUENCE

1. PRIOR TO COMMENCEMENT OF WORK A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH DOT PERSONNEL, BOROUGH STAFF, AND REPRESENTATIVES OF THE CONTRACTOR. AT THIS MEETING, THE CONTRACTOR SHALL ASSIGN ONE PERSON THAT WILL BE PLACED IN CHARGE OF SEDIMENT AND EROSION CONTROL FOR THE ENTIRE SITE.
2. CONTRACTOR SHALL SUBMIT A SCHEDULE DETAILING SEQUENCE OF CONSTRUCTION OPERATIONS AND/OR A CONSTRUCTION PHASING PLAN A MIN. OF FOUR WEEKS PRIOR TO THE START OF CONSTRUCTION FOR APPROVAL BY THE ENGINEER.
3. CONTRACTOR TO STAKE OUT LIMIT OF DISTURBANCE AND VEGETATION TO BE RETAINED. NO DISTURBANCE IS TO TAKE PLACE BEYOND THE LIMITS OF WORK SHOWN.
4. CONTRACTOR IS TO STAKE OUT CENTERLINE OF TRAIL WITH PROPOSED FINISH GRADES IN THE FIELD AT 50' INTERVALS, OR AS APPROPRIATE FOR APPROVAL BY THE ENGINEER PRIOR TO ANY CONSTRUCTION.
5. CONTRACTOR TO INSTALL SEDIMENT AND EROSION CONTROLS ALONG THE PERIMETER, AND INSTALL STABILIZED CONSTRUCTION ENTRANCES, AS SHOWN ON THE PLANS PRIOR TO ANY EARTHWORK ACTIVITIES.
6. CLEAR AND GRUB SITE, STRIP AND STOCKPILE TOPSOIL. PLACE SEDIMENT FILTER FENCE AND HAY BALES AROUND STOCKPILES. ALL STRIPPED AND STOCKPILED MATERIAL SHOULD BE SCREENED TO VERIFY NO INVASIVE SPECIES ARE PRESENT PRIOR TO REUSE ON SITE.
7. INITIATE FORMATION OF TRAIL SUB-GRADE AND EARTHWORK OPERATIONS ONLY AFTER ALL SEDIMENTATION & EROSION CONTROLS ARE IN PLACE.
8. SLOPES ARE TO BE ESTABLISHED AS SOON AS PRACTICAL, BEFORE PAVING OCCURS. STABILIZE ALL SLOPES IMMEDIATELY AFTER THEIR ESTABLISHMENT.
9. THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE MODIFIED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER AND DESIGNATED BOROUGH REPRESENTATIVE AS NECESSITATED BY CHANGING WEATHER AND SITE CONDITIONS.
10. THE SITE SHOULD BE KEPT CLEAN OF LOOSE DEBRIS, LITTER, AND BUILDING MATERIALS SUCH THAT NONE OF THE ABOVE ENTERS EXISTING DRAINAGE STRUCTURES, BODIES OF WATER OR WETLANDS.
11. ALL CONSTRUCTION EQUIPMENT, MATERIALS, AND ANY FUEL OIL, GASOLINE, OR OTHER HAZARDOUS MATERIAL BEING TEMPORARILY STORED IN THE WORK AREA WILL BE RELOCATED TO AN EQUIPMENT STAGING AREA LOCATED ABOVE THE ELEVATION OF THE 100-YEAR FLOOD. EVERY EFFORT WILL BE MADE TO RELOCATE ALL EQUIPMENT AND MATERIALS FROM THE FLOODPLAIN. FUEL OIL, GASOLINE, OR OTHER HAZARDOUS MATERIALS ARE NOT TO BE STORED WITHIN THE 100-YEAR FLOODPLAIN OR WITHIN 100 FEET OF A WETLAND OR WATERCOURSE AT ANY TIME, REGARDLESS OF WEATHER CONDITIONS.
12. A COPY OF ALL PLANS AND REVISIONS, THE SEDIMENT AND EROSION CONTROL PLAN, AND A COPY OF THE STORM WATER GENERAL PERMIT (IF REQUIRED), SHALL BE MAINTAINED ON-SITE AT ALL TIMES DURING CONSTRUCTION.

LEGEND

EXISTING		PROPOSED
155	CONTOUR	155
×70	SPOT GRADE	+70.5
	TREE LINE	
	BRUSH LINE	
	TREE	
	STONEWALL	
	RETAINING WALL	
	ORNAMENTAL STEEL FENCE	
	GUIDE RAIL	
-X-X-X-X-X-	CHAIN LINK FENCE	-X-X-X-X-X-
	3 RAIL WOOD FENCE	
	IRON PIPE	
	MONUMENT	
D	DRAINAGE MANHOLE	
S	SANITARY MANHOLE	
M	MANHOLE	
T	TELEPHONE MANHOLE	
	CATCH BASIN	
WV	WATER VALVE	
GV	GAS VALVE	
GP	GATE POST	
	HYDRANT	
	UTILITY POLE	
	HIGHWAY ILLUMINATION	
	PEDESTRIAN LIGHT	
S	SANITARY SEWER LINE	
	STORM DRAIN W/CATCH BASIN	
	TRAFFIC SIGN	
	BOLLARD	
	CURB	
	CONCRETE SIDEWALK	
	BIT. CONC. TRAIL	
	STONEDUST PATH	
	CONCRETE PAVERS (PATTERN AND COLOR AS SPECIFIED)	
	CROSS WALK	
	PROPERTY LINE/R.O.W. LINE	
FEMA1%FLFP	1% ANNUAL CHANCE FLOOD HAZARD	
	0.2% ANNUAL CHANCE FLOOD HAZARD	
FW	FLOODWAY & 1% ANNUAL CHANCE FLOOD HAZARD (ACCORDING TO FEMA DEC. 17, 2010 FIS)	
SCEL	STREAM CHANNEL ENCROACHMENT LINE	
OHW	FEDERAL WETLAND LIMIT ORDINARY HIGH WATER (OHW)	
W-72	STATE WETLAND LINE	
	WATERCOURSE LINE	
	SEDIMENT CONTROL SYSTEM	
	INLET PROTECTION	
	CONSTRUCTION ENTRANCE (anti-tracking pad)	
	TEMP PRECAST CONC. BARRIER	
NB-#	BORING LOCATION	

CONSTRUCTION DRAWINGS

NOTES AND LEGEND

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
FEDERAL PROJECT NO. PEDS(090)

MTD	MTD	VCM
DESIGNED	DRAWN	CHECKED

SCALE NONE

DATE JANUARY 5, 2012

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99 Realty Drive
Cheshire, Connecticut 06410
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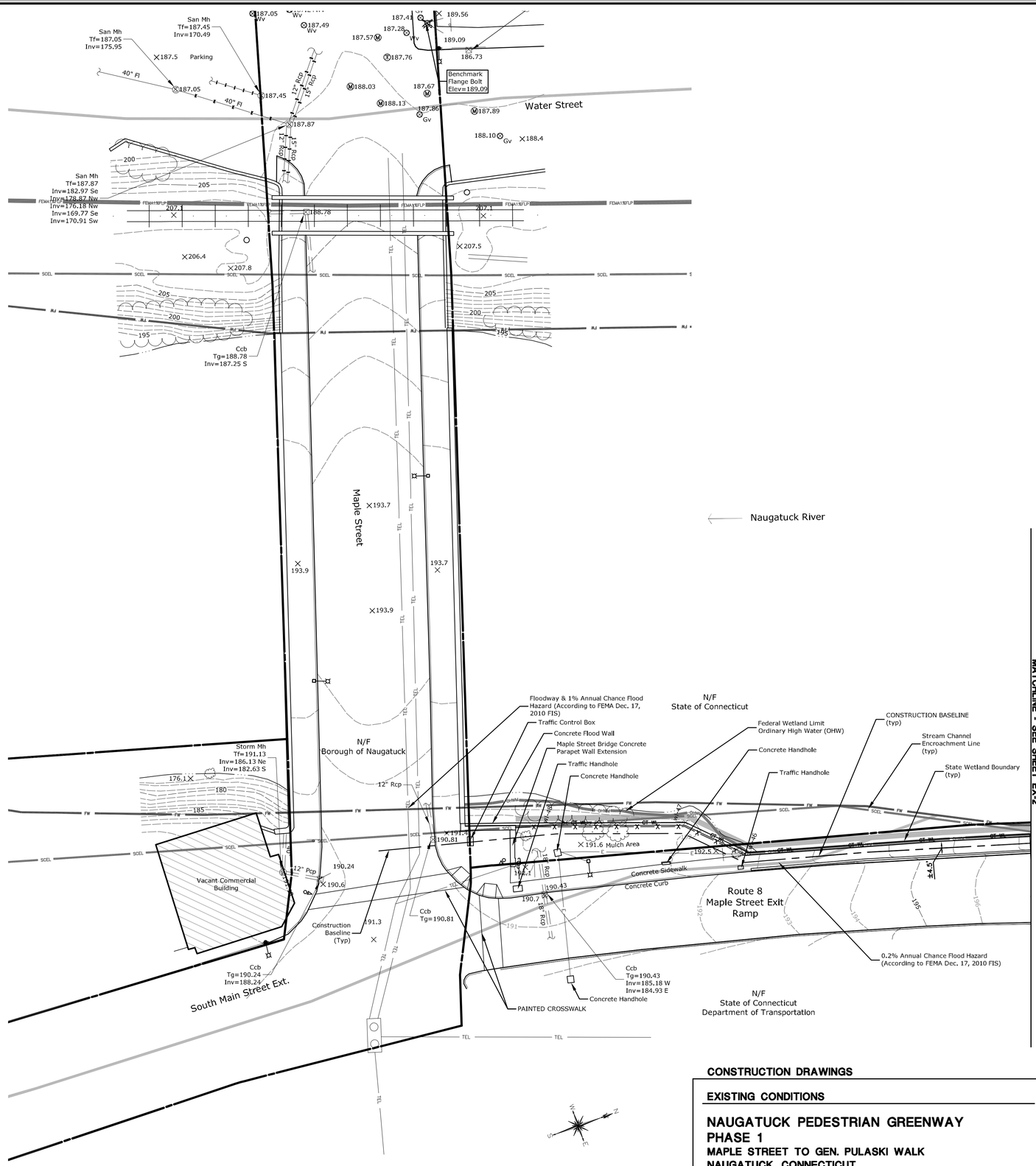
2129-11
PROJECT NO.

NL
SHEET NO. 04 OF 48



CONSTRUCTION DRAWINGS

EXISTING CONDITIONS

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK

NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
FEDERAL PROJECT NO. PEDS(090)

MTD DESIGNED	MTD DRAWN	VCM CHECKED
SCALE 1"=20'		
DATE JANUARY 5, 2012		

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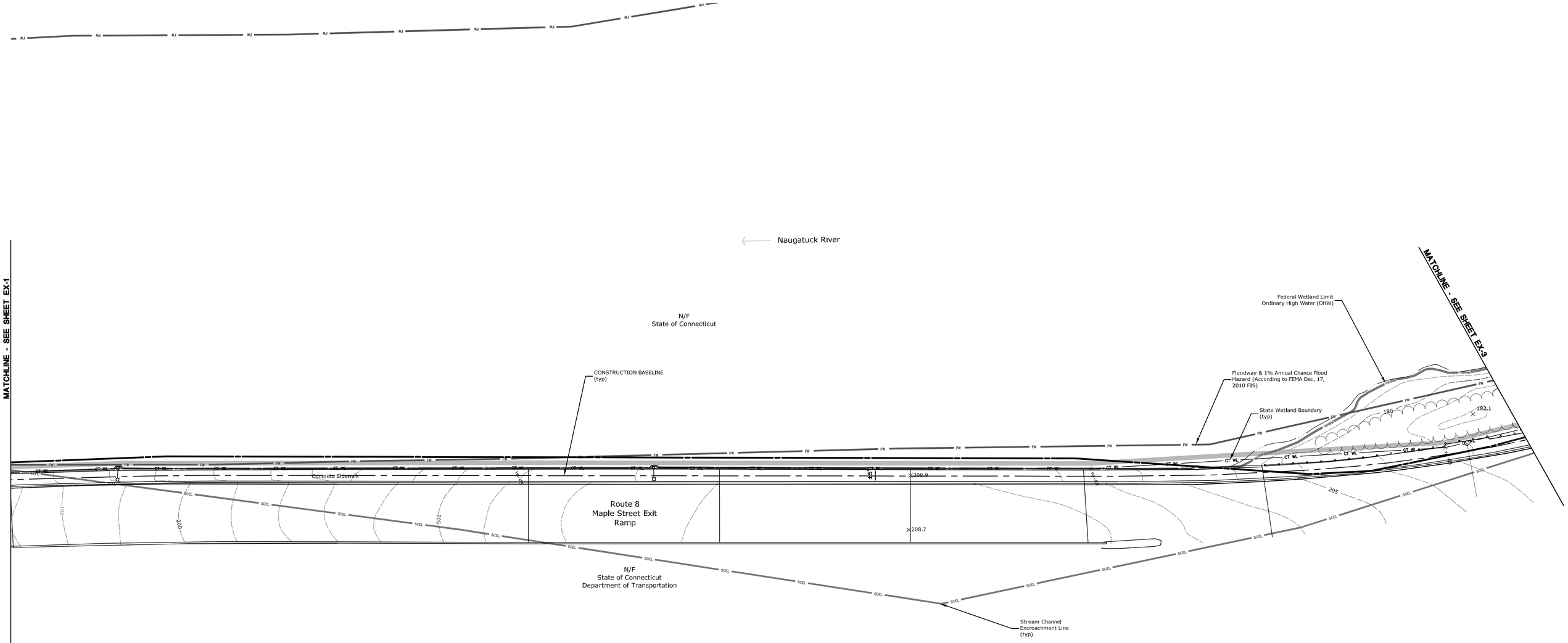
PROJECT NO. 2129-11

SHEET NO. EX-1

05 OF 48



CONSTRUCTION DRAWINGS

EXISTING CONDITIONS

NAUGATUCK PEDESTRIAN GREENWAY
PHASE 1
MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

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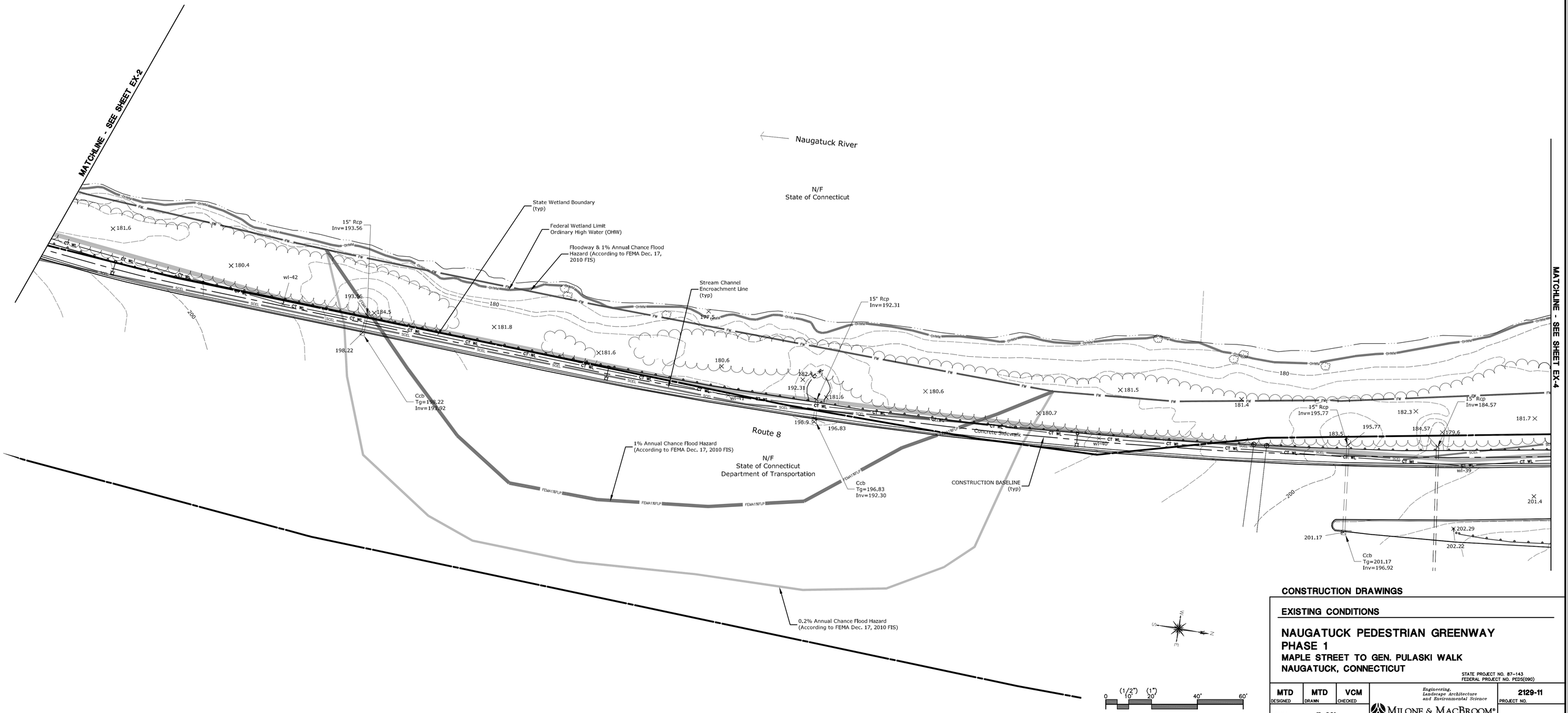
2129-11
PROJECT NO.

EX-2
SHEET NO. 06 OF 48



CONSTRUCTION DRAWINGS

EXISTING CONDITIONS

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK

NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
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2129-11
PROJECT NO.

EX-3
SHEET NO. 07 OF 48

MATCHLINE - SEE SHEET EX-3

MATCHLINE - SEE SHEET EX-5

MATCHLINE - SEE SHEET EX-5

Naugatuck River

Federal Wetland Limit
Ordinary High Water (OHW)

N/F
State of Connecticut

Edge of Pavement (typ)

N/F
Borough of Naugatuck

Bituminous Parking

42" Cmp
Inv=184.82

Floodway & 1% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)

State Wetland Boundary (typ)

Stream Channel Encroachment Line (typ)

Storm Mh
Tf=194.86
Inv=187.96 Se
Inv=185.64 Nw

Concrete Sidewalk

N/F
State of Connecticut
Department of Transportation

Route 8
South Main Street Ext.
On-Ramp

Route 8
Overpass

Ccb
Tg=193.52
Inv=188.58 N,nw

Ccb
Tg=194.28
Inv=188.55 Se
Inv=188.18 Nw

Entrance to Linden Park

0.2% Annual Chance Flood Hazard
(According to FEMA Dec. 17, 2010 FIS)

12" Plastic
Inv=189.40

12" Plastic
Inv=190.66

Concrete Modular
Block Planter

Guy Wire

15" Plastic
Inv=189.03

Bituminous Access Drive

CONSTRUCTION
BASELINE
(typ)

Rock Outcrop

4" Water Service

Bituminous Path (typ)

Educational Signage

N/F
State of Connecticut
Board of Fisheries & Game

Bituminous Parking

Skateboard Area

N/F
State of Connecticut
Department of Transportation

Route 8

CONSTRUCTION DRAWINGS

EXISTING CONDITIONS

NAUGATUCK PEDESTRIAN GREENWAY
PHASE 1
MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

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(1/2") (1") 0 10' 20' 40' 60'

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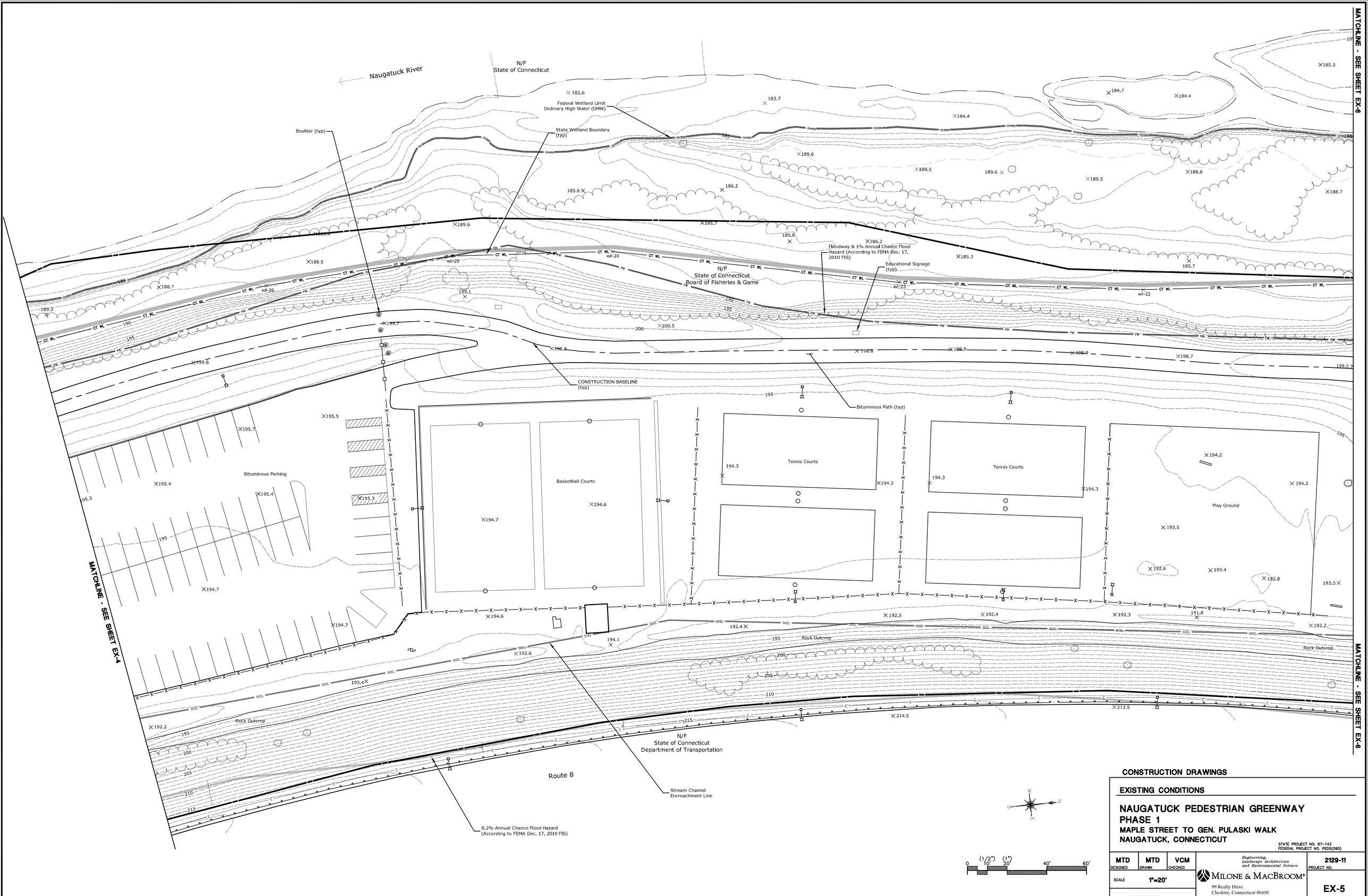
2129-11
PROJECT NO.

EX-4
SHEET NO. 08 OF 48



0 10' 20' 40' 60'
(1/2") (1")

CONSTRUCTION DRAWINGS

EXISTING CONDITIONS

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK

NAUGATUCK, CONNECTICUT

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PROJECT NO. 2129-11

SHEET NO. EX-5 09 OF 48

Naugatuck River

N/F
State of Connecticut

Federal Wetland Limit
Ordinary High Water (OHW)

State Wetland Boundary
(typ)

Floodway & 1% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)

CONSTRUCTION BASELINE
(typ)

N/F
State of Connecticut
Board of Fisheries & Game

Striped Athletic Field
(typ)

Bituminous Path (typ)

Open Lawn

Rock Outcrop

Rock Outcrop

Stream Channel
Encroachment Line

0.2% Annual Chance Flood Hazard
(According to FEMA Dec. 17, 2010 FIS)

N/F
State of Connecticut
Department of Transportation

Route 8

MATCHLINE - SEE SHEET EX-5

MATCHLINE - SEE SHEET EX-7

MATCHLINE - SEE SHEET EX-7

0 (1/2") 10' (1") 20' 40' 60'

CONSTRUCTION DRAWINGS

EXISTING CONDITIONS

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK

NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
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2129-11 PROJECT NO.

EX-6 SHEET NO. 10 OF 48

Federal Wetland Limit
Ordinary High Water (OHW)

Naugatuck River

N/F
State of Connecticut

Floodway & 1% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)

State Wetland Boundary (typ)

CONSTRUCTION BASELINE (typ)

Bituminous Path (typ)

N/F
State of Connecticut
Board of Fisheries & Game

Open Lawn

Bituminous Area

Storage Shed

15" CMP
Inv=195.62

Rock Outcrop

N/F
State of Connecticut
Department of Transportation

Stream Channel Encroachment Line

Ccb
Tg=218.92
Inv=210.92 Nw,se

15" RCP

Route 8

0.2% Annual Chance Flood Hazard
(According to FEMA Dec. 17, 2010 FIS)

MATCHLINE - SEE SHEET EX-6

MATCHLINE - SEE SHEET EX-8

0 (1/2") 10' (1") 20' 40' 60'

CONSTRUCTION DRAWINGS

EXISTING CONDITIONS

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK

NAUGATUCK, CONNECTICUT

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PROJECT NO. 2129-11

EX-7

SHEET NO. 11 OF 48

MATCHLINE - SEE SHEET EX-7

0.2% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)

1% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)

Stream Channel Encroachment Line (typ)

Floodway (According to FEMA Dec. 17, 2010 FIS)

Bituminous Parking

N/F Union City Polish Polish American Club #199 Gen. Pulaski Walk

Granite Monument and Flagpole

Lawn

General Pulaski Walk

Clcb Tg=200.25 Inv=196.67

Storm Mh Tf=200.82 Inv=196.17 Ne Inv=195.87 Sw Inv=193.62 N Inv=192.52 Nw,se

N/F State of Connecticut

N/F Borough of Naugatuck

Refer to Structure Sheets for More Detailed Existing Conditions Information Pertaining to the Pedestrian Bridge

General Pulaski Pedestrian Bridge

Naugatuck River

Federal Wetland Limit Ordinary High Water (OHW)

15" Rcp Inv=196.16

Begin Steel Bin Wall

0.2% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)

CONSTRUCTION BASELINE (typ)

Metal Beam Guardrail (typ)

N: 743184.82 E: 918811.19 ELEV: ±219.41

NB-4

Hand Hole

Rock Outcrop

End Steel Bin Wall Begin Concrete Flood Wall

State Wetland Boundary (typ)

Floodway & 1% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)

N/F State of Connecticut Board of Fisheries & Game

N/F State of Connecticut Department of Transportation

Concrete Barrier Wall (typ)

N: 743305.9 E: 918128.91 ELEV: ±216.20

NB-5

15" Cmp Inv=200.60

Construction Baseline 15" Rcp (Typ) Inv=±200.50

Clcb Tg=±211.5 Inv=±206.7

N: 743410.23 E: 918210.25 ELEV: ±211.30

NB-2

Concrete Barrier Wall (typ)

Route 8 Union City Street On-Ramp

Clcb Tg=204.73 Inv=201.33 Se Inv=±200.3 Nw

N: 743517.96 E: 918306.2 ELEV: ±206.40

NB-1

Concrete Walk (typ)

0.2% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)

18" Clay Inv=196.42

15" Metal Inv=194.54

15" Clay Inv=198.00

Concrete Flood Wall

60" Willow (trip)

Ccb Tg=220.42 Inv=216.25 Nw,e

15" Rcp

Hand Hole

Route 8

CONSTRUCTION DRAWINGS

EXISTING CONDITIONS

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK

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PROJECT NO. 2129-11

SHEET NO. EX-8 12 OF 48

PLANT LIST - BASE BID

SHADE TREES	REV	QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
		2	AR	Acer rubrum 'Red Sunset'	Red Sunset Red Maple	2.5"–3" CAL.	B&B, FULL & DENSE
		5	AS	Acer saccharum 'Green Mountain'	Green Mountain Sugar Maple	2.5"–3" CAL.	B&B, FULL & DENSE
		5	UP	Ulmus americana 'Princeton'	Princeton American Elm	2.5"–3" CAL.	B&B, FULL & DENSE
ORNAMENTAL TREES	**REV**	**QTY**	**KEY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**COMMENTS**
		2	AC	Amelanchier canadensis	Serviceberry	5'–6' HT.	B&B, FULL & DENSE, MULT–STEMMED
		4	BN	Betula nigra 'Heritage'	Heritage River Birch	8'–10' HT.	B&B, FULL & DENSE, MULT–STEMMED
		3	CB	Carpinus betulus 'Frans Fontaine'	Upright European Hornbeam	2"–2.5" CAL.	B&B, FULL & DENSE
SHRUBS	**REV**	**QTY**	**KEY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**COMMENTS**
		6	AD	Azalea 'Delaware Valley White'	Delaware Valley White Azalea	24"–30" HT.	FULL & DENSE
		4	CA	Clethra alnifolia	Summersweet	24"–30" HT.	FULL & DENSE
		21	FG	Fothergilla gardenii	Dwarf fothergilla	24"–30" HT.	FULL & DENSE
		11	IG	Ilex glabra 'Shamrock'	Shamrock Inkberry	24"–30" HT.	FULL & DENSE
		30	JU	Juniperus horizontalis 'Mother Lode'	Mother Lode Juniper	1 GAL.	FULL & DENSE
PERENNIALS/GROUNDCOVERS	**REV**	**QTY**	**KEY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**COMMENTS**
		130	HE	Hemerocallis 'Stella d' Oro'	Stella d' Oro Daylilly	1 GAL.	FULL & DENSE

PLANT LIST - ADD ALTERNATE #2

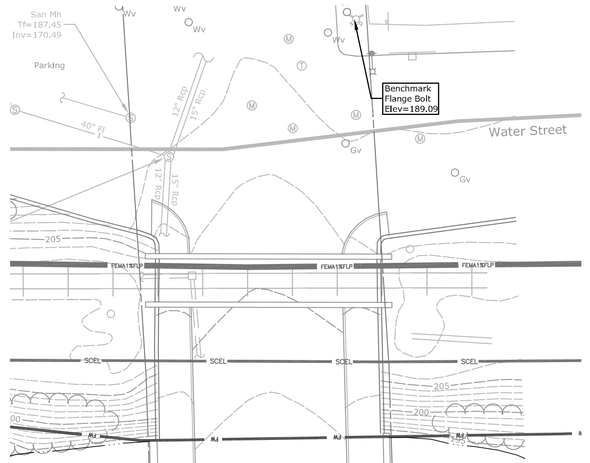
SHADE TREES	REV	QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
		16	AR	Acer rubrum 'Red Sunset'	Red Sunset Red Maple	2.5"–3" CAL.	B&B, FULL & DENSE
		21	UP	Ulmus americana 'Princeton'	Princeton American Elm	2.5"–3" CAL.	B&B, FULL & DENSE

LAYOUT LEGEND

- HIGHWAY ILLUMINATION
- PEDESTRIAN LIGHT
- TRAFFIC SIGN
- BOLLARD
- CURB
- CONCRETE SIDEWALK
- BIT. CONC. TRAIL
- STONEDUST PATH
- CONCRETE PAVERS (PATTERN AND COLOR AS SPECIFIED)
- TURF ESTABLISHMENT – LAWN OR SOD AS SHOWN ON PLANS
- TURF ESTABLISHMENT – NEW ENGLAND MIX
- CROSS WALK

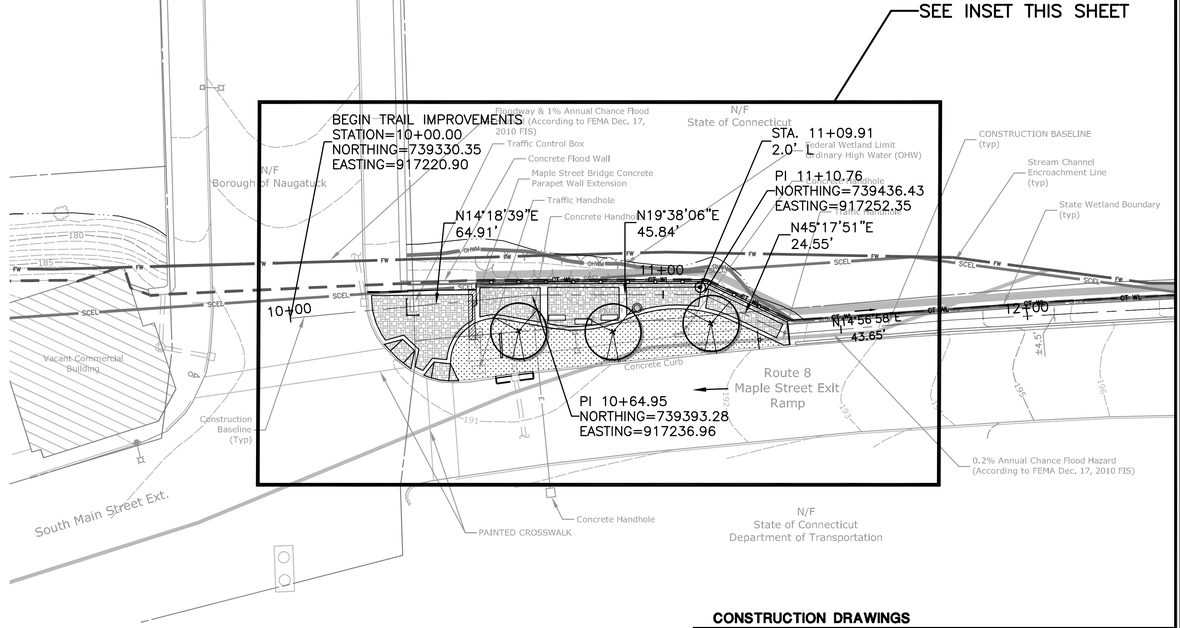
PLANTING NOTES

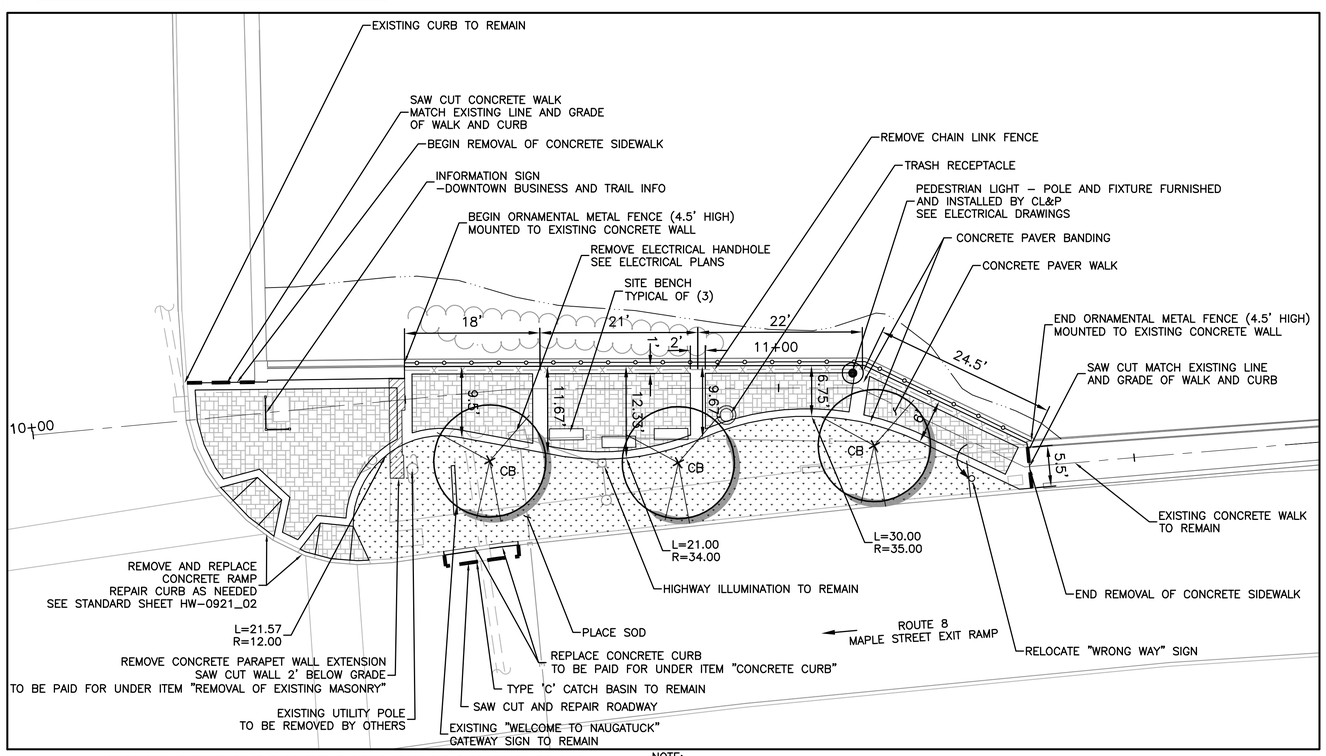
1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATING PLANT PITS.
2. THE CONTRACTOR SHALL PROVIDE A 6" MINIMUM DEPTH OF TOPSOIL FOR ALL LAWN AREAS. TO BE PAID FOR UNDER ITEM "FURNISH AND PLACE TOPSOIL".
3. SEED ALL DISTURBED AREAS TO LAWN.
4. ALL PLANTING BEDS SHALL HAVE 12" MINIMUM DEPTH OF TOPSOIL. TO BE PAID FOR UNDER ITEM "FURNISH AND PLACE TOPSOIL".
5. THE CONTRACTOR SHALL PROVIDE A 4" MIN. DEPTH OF DARK BROWN WOOD CHIP MULCH OVER ALL PLANTING BEDS AND TREE PLANTINGS.
6. ALL PLANT MATERIAL IS SUBJECT TO INSPECTION AND APPROVAL BY THE LANDSCAPE ARCHITECT AND CONNDOT REPRESENTATIVE PRIOR TO AND AFTER PLANTING.
7. PLANT SPECIES MAY BE ADJUSTED BASED ON AVAILABILITY AT TIME OF PLANTING. ALL PLANT MATERIAL SUBSTITUTIONS ARE SUBJECT TO REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND CONNDOT REPRESENTATIVE.
8. ALL PLANT MATERIALS SHALL CARRY A FULL GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE, TO INCLUDE PROMPT TREATMENT OR REMOVAL AND REPLACEMENT OF ANY PLANTS FOUND TO BE IN AN UNHEALTHY CONDITION BY THE LANDSCAPE ARCHITECT. ALL REPLACEMENTS SHALL BE OF THE SAME KIND AND SIZE OF PLANTS SPECIFIED IN THE PLANT LIST.
9. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND SHALL CONTINUE UNTIL ACCEPTANCE BY THE LANDSCAPE ARCHITECT. MAINTENANCE SHALL INCLUDE WATERING, MULCHING, TIGHTENING & REPLACING OF GUYS, REPLACEMENT OF SICK OR DEAD PLANTS, RESETTING PLANTS TO PROPER GRADE OR UPRIGHT (PLUMB) POSITION, RESTORATION OF SAUCERS, AND ALL OTHER CARE NEEDED FOR PROPER GROWTH OF THE PLANTS.
10. WHERE A SIZE RANGE IS SPECIFIED AT LEAST 50% OF PLANTS PROVIDED SHALL BE OF THE LARGER SIZE.
11. CONTRACTOR TO REMOVE TREE STAKES AFTER ONE GROWING SEASON.
12. REFER TO NOTES ON SHEET SD–1



LAYOUT NOTES

1. MILONE AND MACBROOM INC. ACCEPTS NO RESPONSIBILITY FOR MAPS AND DATA THAT HAVE BEEN PREPARED AND SUPPLIED BY OTHERS.
2. CONTRACTOR IS REQUIRED TO PAINT ALL PAVEMENT MARKINGS SHOWN ON PLANS INCLUDING PARKING SPACE LINES, CROSSWALKS, HANDICAPPED SYMBOLS, STOP BARS, AND ALL MARKINGS REQUIRED BY LOCAL BOROUGH OF NAUGATUCK REGULATIONS.
3. PROVIDE 12" WIDE WHITE PAINTED STOP BAR AT ALL STOP SIGN LOCATIONS.
4. PROVIDE EXPANSION JOINTS (E.J.) AT INTERVALS OF 20' MAX ALONG CONCRETE WALKS. PROVIDE CONSTRUCTION JOINTS (CJ) AT INTERVALS OF 5' TYP. OR AS SHOWN ON PLANS.
5. IN ALL CASES IN WHICH PROPOSED ROADS, CURBING, WALKS, GUIDERAILS AND HANDRAILS WILL BE TIED INTO EXISTING THE CONTRACTOR SHALL MATCH THE LINE AND GRADE OF THE EXISTING SITE AMENITIES.
6. ALL PARKING SPACES SHALL BE 9' X 18' TYPICAL.
7. SITE LIGHTING IS DEPICTED ON LAYOUT PLANS FOR PROPER PLACEMENT IN THE FIELD, SEE DETAILED ELECTRICAL PLAN FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING LIGHT FIXTURE AND FOUNDATION. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER, BOROUGH, AND STATE OF CONNECTICUT DOT ON FINAL LOCATION AND FOUNDATION DETAIL.
8. SITE LIGHTS DEPICTED WITH IN LAWN/LANDSCAPE AREAS SHALL MAINTAIN A 4" MIN. – 6" MAX. FOUNDATION REVEAL.
9. SEE SHEET SPM FOR ALL SIGNAGE AND PAVEMENT MARKING NOTES AND LEGEND.





MAPLE STREET POCKET PARK ENLARGEMENT PLAN
SCALE: 1"=10'

NOTE:
CONTRACTOR TO CONTACT CTDOT DISTRICT 4 ELECTRICAL OFFICE PRIOR TO ANY WORK IN THE AREA OF THE TRAFFIC SIGNAL CONTROLLER CABINET AT THE INTERSECTION OF MAPLE STREET AND THE ROUTE 8 SOUTHBOUND OFF–RAMP.

0 (1/2") (1") 10' 20' 40' 60'

CONSTRUCTION DRAWINGS

SITE PLAN - LAYOUT & LANDSCAPING

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87–143
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PROJECT NO. 2129-11

SHEET NO. LA-1


MATCHLINE - SEE SHEET LA-3
STONEDUST PATH AND FISHING ACCESS AREA
ITEMS INCLUDED WITHIN THESE LIMITS (EXCLUDING SHADE TREES ALONG THE EXISTING BITUMINOUS WALK) SHALL BE PAID FOR UNDER ADD ALTERNATE #1 (RIVER ACCESS COMPLETE)
GRANITE STEP
REMOVE AND REPLACE BITUMINOUS CONCRETE WALK SEE STANDARD SHEET HW-0921_01
BITUMINOUS CONCRETE SIDEWALK SEE STANDARD SHEET HW-0921_01
EXISTING BITUMINOUS CONCRETE WALK (TYP)
SAWCUT, MATCH LINE AND GRADE OF EXISTING WALK
END BIT. CONC. WALK STATION=30+29.14 NORTHING=741214.45 EASTING=917309.00
PI 30+21.29 NORTHING=741207.49 EASTING=917312.62
INFORMATION KIOSK ON CONCRETE BASE
N33°24'51"W 19.81'
Δ=032°56'31" R=45.00' L=25.87' CB=N52°16'34"W CH=25.52'
TRASH RECEPTACLE ON CONCRETE BASE
APPROXIMATE CLEARING LIMITS FOR VIEWING PLATFORM
END EMBANKMENT WALL (SITE NO. 1)
SITE BENCH
ORNAMENTAL METAL FENCE (3.5' HIGH)
CONCRETE UNIT PAVER VIEWING PLATFORM
BEGIN EMBANKMENT WALL (SITE NO. 1) SEE STRUCTURAL PLANS
Δ=029°03'23" R=53.00' L=26.88'
CONCRETE SIDEWALK SEE STANDARD SHEET HW-0921_01
STA. 29+25.26 2.5' L
REMOVE BITUMINOUS CONCRETE PARKING AREA TO BE PAID FOR UNDER ITEM "REMOVAL OF BITUMINOUS TYPE PAVEMENT"
TURF ESTABLISHMENT - LAWN (TYP.)
Naugatuck River
Federal Wetland Limit Ordinary High Water (OHW)
State Wetland Boundary (typ)
Stream Channel Encroachment Line (typ)
Floodway & 1% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)
Edge of Pavement (typ)
BITUMINOUS CONCRETE WALK
EMBANKMENT WALL (SITE NO. 5) SEE SHEET S-10
THREE RAIL WOOD FENCE
STA. 32+07.03 18.5' L
STA. 31+97.06 12.7' L
STA. 31+10.52 9.0' L
ALL SHADE TREES ALONG EXISTING BITUMINOUS WALK TO BE PAID UNDER ADD ALTERNATE #2 (TREE PLANTING COMPLETE)
EDUCATIONAL SIGN TO REMAIN
4" WIDE WHITE STRIPED PAVEMENT MARKING (NO PARKING AREA)
BITUMINOUS CONCRETE WALK SEE STANDARD SHEET HW-0921_01
STA. 31+37.74 7.7' L
REMOVE SECTION OF BITUMINOUS CURB
STA. 31+32.52 5.7' L
EXISTING BITUMINOUS CONCRETE WALK TO REMAIN
STA. 30+44.83 9.0' R
END REMOVAL OF BITUMINOUS CURB
STA. 30+16.92 6.2' R
REMOVE MODULAR BLOCK PLANTER TO BE PAID FOR UNDER ITEM "CLEARING AND GRUBBING"
BITUMINOUS CONCRETE SIDEWALK SEE STANDARD SHEET HW-0921_01
BEGIN REMOVAL OF BITUMINOUS CURB
SHADE TREE (TYP)
N68°44'50"W 7.87'
SAW CUT BITUMINOUS PARKING AREA INSTALL BITUMINOUS CONCRETE CURB
STA. 29+52.61 2.5' L
Δ=051°53'08" R=35.00' L=31.70' CB=N67°17'15"W CH=30.62'
Δ=027°24'08" R=50.00' L=23.91' CB=N55°02'45"W CH=23.69'
S86°46'10"W 16.22'
SAWCUT AND REMOVE PORTION OF WALK
Δ=024°12'17" R=25.00' L=10.56' CB=N81°07'41"W CH=10.48'
MATCH LINE AND GRADE OF EXISTING WALK AND CURB
N69°01'33"W 8.36'
WHITE PAINTED STOP BAR
BEGIN BIT. CONC. WALK STATION=28+77.14 NORTHING=741138.45 EASTING=917429.10
STOP SIGN TO REMAIN
LINDEN PARK ENTRANCE SIGN STYLE AND MATERIALS TO MATCH EXISTING "WELCOME TO NAUGATUCK" GATEWAY SIGNS
ROUTE 8 DIRECTIONAL SIGNAGE TO REMAIN
Route 8 South Main Street Ext. On-Ramp
Route 8
Skateboard Area
Bituminous Parking
N11°49'21"W 39.28'
26+00
27+00
28+00
29+00
30+00
31+00
32+00
33+00
0.2% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)

LAYOUT NOTE

1. SEE SHEET SPM FOR ALL SIGNAGE AND PAVEMENT MARKING NOTES AND LEGEND.
2. REFER TO LANDSCAPE NOTES ON LA-1 AND NOTES ON SD-1

CONSTRUCTION DRAWINGS

SITE PLAN - LAYOUT & LANDSCAPING

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1
MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
FEDERAL PROJECT NO. PEDS(090)

MTD	MTD	VCM
DESIGNED	DRAWN	CHECKED

SCALE 1"=20'
DATE JANUARY 5, 2012

MILONE & MACBROOM®
Engineering, Landscape Architecture and Environmental Science
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Cheshire, Connecticut 06410
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PROJECT NO. 2129-11

LA-2

MATCHLINE - SEE SHEET LA-4

MATCHLINE - SEE SHEET LA-2

Naugatuck River

N/F
State of Connecticut

Federal Wetland Limit
Ordinary High Water (OHW)

State Wetland Boundary (typ)

Boulder (typ)

BEGIN 4" SOLID
YELLOW CENTER LINE
STA: 39+17

Floodway & 1% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)

Educational Signage (typ)

N/F
State of Connecticut
Board of Fisheries & Game

34+00 35+00 36+00 37+00 38+00 39+00 40+00

AR UP

CONSTRUCTION BARRIER (typ)

6' TYP.

50' TYP.

Bituminous Path (typ)

EXISTING BITUMINOUS CONCRETE WALK (TYP)

STA. 39+17.80
9.0' R

ALL SHADE TREES ALONG EXISTING BITUMINOUS WALK TO BE PAID UNDER ADD ALTERNATE #2 (TREE PLANTING COMPLETE)

REMOVE AND RELOCATE BOULDERS (2) PER DIRECTION OF PROJECT ENGINEER
PAID FOR UNDER ITEM "CLEARING AND GRUBBING"

Bituminous Parking

Basketball Courts

Tennis Courts

Tennis Courts

Play Ground

Rock Outcrop

Rock Outcrop

Rock Outcrop

N/F
State of Connecticut
Department of Transportation

Route 8

Stream Channel Encroachment Line

0.2% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)

LAYOUT NOTE

1. SEE SHEET SPM FOR ALL SIGNAGE AND PAVEMENT MARKING NOTES AND LEGEND.
2. REFER TO LANDSCAPE NOTES ON LA–1 AND NOTES ON SD–1

0 (1/2") (1") 20' 40' 60'

CONSTRUCTION DRAWINGS

SITE PLAN - LAYOUT & LANDSCAPING

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK

NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87–143
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2129-11 PROJECT NO.

LA-3

SHEET NO. 15 OF 48

Naugatuck River

N/F
State of Connecticut

Federal Wetland Limit
Ordinary High Water (OHW)

State Wetland Boundary
(typ)

Floodway & 1% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)

STA. 41+51.43
9.0' L

END 4" SOLID YELLOW CENTERLINE
STA: 41+51

STA. 40+54.42
9.0' R

SIGN MOUNTED ON WOOD POST
SEE NOTE 1 THIS SHEET

ALL SHADE TREES ALONG EXISTING BITUMINOUS WALK TO BE PAID UNDER ADD ALTERNATE #2
(TREE PLANTING COMPLETE)

50' TYP.

Bituminous Path (typ)

CONSTRUCTION BASELINE
(typ)

Striped Athletic Field
(typ)

Open Lawn

N/F
State of Connecticut
Board of Fisheries & Game

Rock Outcrop

N/F
State of Connecticut
Department of Transportation

Route 8

Stream Channel Encroachment Line

0.2% Annual Chance Flood Hazard
(According to FEMA Dec. 17, 2010 FIS)

MATCHLINE - SEE SHEET LA-3

MATCHLINE - SEE SHEET LA-5

LAYOUT NOTE

1. SEE SHEET SPM FOR ALL SIGNAGE AND PAVEMENT MARKING NOTES AND LEGEND.
2. REFER TO LANDSCAPE NOTES ON LA-1 AND NOTES ON SD-1

0 (1/2") (1") 10' 20' 40' 60'

CONSTRUCTION DRAWINGS

SITE PLAN - LAYOUT & LANDSCAPING

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK

NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
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PROJECT NO. 2129-11

SHEET NO. LA-4

REMOVE INVASIVE AND UNDESIRABLE VEGETATION AND SELECTIVELY PRUNE VEGETATION TO REMAIN PER DIRECTION OF PROJECT ENGINEER FROM STA. 46+60 TO 52+20 – REFER TO SPECIFICATIONS

EXISTING BITUMINOUS CONCRETE WALK (TYP)

Federal Wetland Limit
Ordinary High Water (OHW)

Naugatuck River

N/F
State of Connecticut

Floodway & 1% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)

BEGIN BITUMINOUS CONCRETE TRAIL

State Wetland Boundary (typ)

BEGIN BIT. CONC. TRAIL
STATION=50+52.70
NORTHING=743005.34
EASTING=917633.98

TRASH RECEPTACLE ON CONCRETE BASE

PI 51+74.14
NORTHING=743063.54
EASTING=917740.56

TURF ESTABLISHMENT – NEW ENGLAND MIX

STA. 51+45.39
6.2' R

END 4" SOLID YELLOW CENTERLINE
STA: 52+00

BEGIN EMBANKMENT WALL (SITE NO. 2)
SEE STRUCTURAL PLANS

BEGIN THREE RAIL WOOD FENCE

STA. 52+00.08
9.0' L

N67°20'11"E
41.02'

Δ=010°44'43"
R=56.00'
L=10.50'
CB=N72°42'32"E
CH=10.49'

N78°04'54"E
21.58'

47+00
48+00
49+00
50+00
51+00
52+00
53+00

ALL SHADE TREES ALONG EXISTING BITUMINOUS WALK TO BE PAID UNDER ADD ALTERNATE #2 (TREE PLANTING COMPLETE)

CONSTRUCTION BASELINE (typ)

Bituminous Path (typ)

BEGIN 4" SOLID YELLOW CENTERLINE
STA: 49+52

STA. 49+53.41
9.0' R

N/F
State of Connecticut
Board of Fisheries & Game

SAWCUT AND REMOVE BITUMINOUS CONCRETE PAVEMENT

STA. 50+80.15
26.6' R

R15'

N61°21'51"E
143.92'

Open Lawn

Bituminous Area

15'

27'

11.5'

Storage Shed

11.5'

19'

STA. 52+84.76
15.5' L

N59°16'39"E
151.44'

EXISTING BITUMINOUS CONCRETE WALK (TYP)

Rock Outcrop

Stream Channel Encroachment Line

N/F
State of Connecticut
Department of Transportation

Route 8

0.2% Annual Chance Flood Hazard
(According to FEMA Dec. 17, 2010 FIS)

Δ=019°10'57"
R=50.00'
L=16.74'
CB=N68°29'25"E
CH=16.66'

STA. 53+04.69
7.0' L

REMOVE 83 L.F. OF CHAIN LINK FENCE

TURF ESTABLISHMENT – LAWN (TYP.)

SAWCUT AND REMOVE EXISTING BITUMINOUS CONCRETE TO BE PAID FOR UNDER ITEM "REMOVAL OF BITUMINOUS TYPE PAVEMENT"

EXISTING BITUMINOUS PAVEMENT TO REMAIN

MATCHLINE - SEE SHEET LA-4

MATCHLINE - SEE SHEET LA-6

LAYOUT NOTE

1. SEE SHEET SPM FOR ALL SIGNAGE AND PAVEMENT MARKING NOTES AND LEGEND.
2. REFER TO LANDSCAPE NOTES ON LA-1 AND NOTES ON SD-1

0 (1/2") 10' (1") 20' 40' 60'

CONSTRUCTION DRAWINGS

SITE PLAN - LAYOUT & LANDSCAPING

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
FEDERAL PROJECT NO. PEDS(090)

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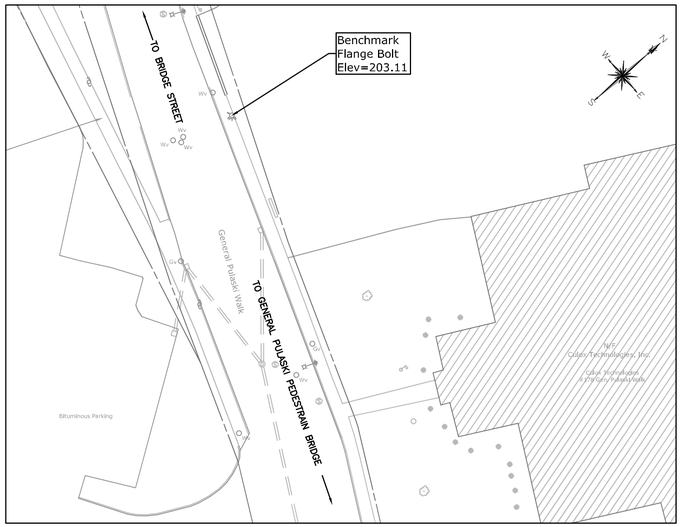
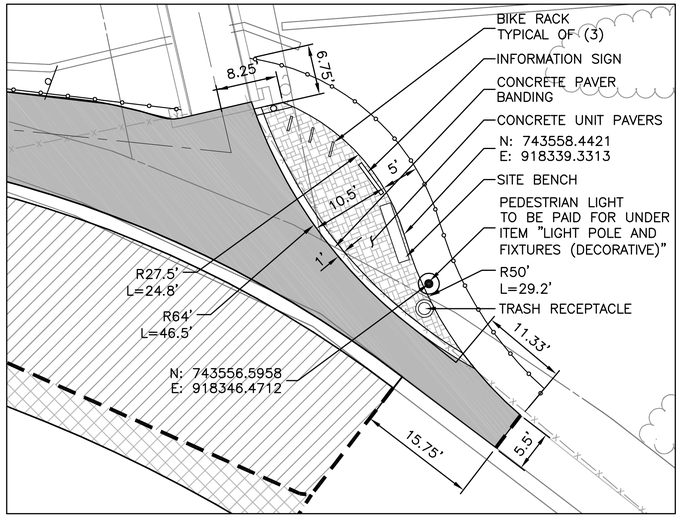
2129-11 PROJECT NO.

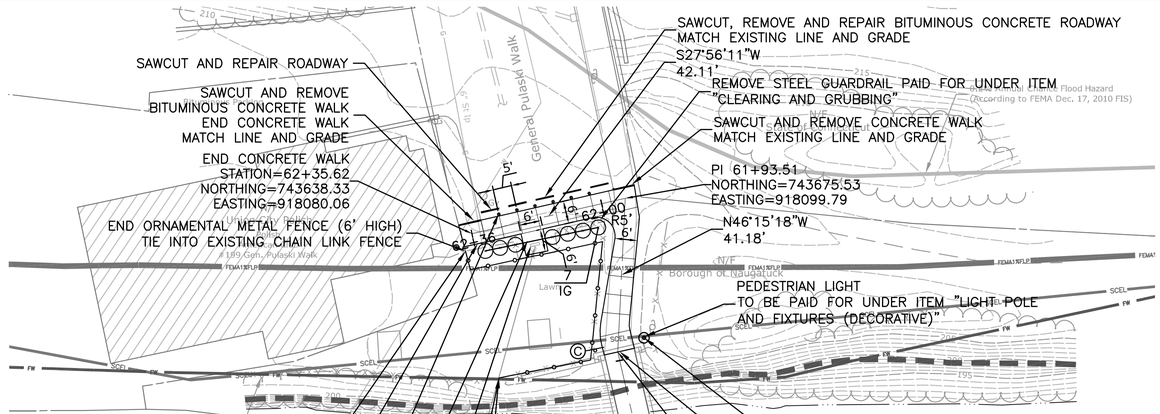
LA-5 SHEET NO. 17 OF 48



INSET-A
SCALE: 1"=30'



INSET-B
1"=10'



LAYOUT NOTE

1. SEE SHEET SPM FOR ALL SIGNAGE AND PAVEMENT MARKING NOTES AND LEGEND.
2. REFER TO LANDSCAPE NOTES ON LA–1 AND NOTES ON SD–1

0 (1/2") (1") 20' 40' 60'

CONSTRUCTION DRAWINGS

SITE PLAN - LAYOUT & LANDSCAPING

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87–143
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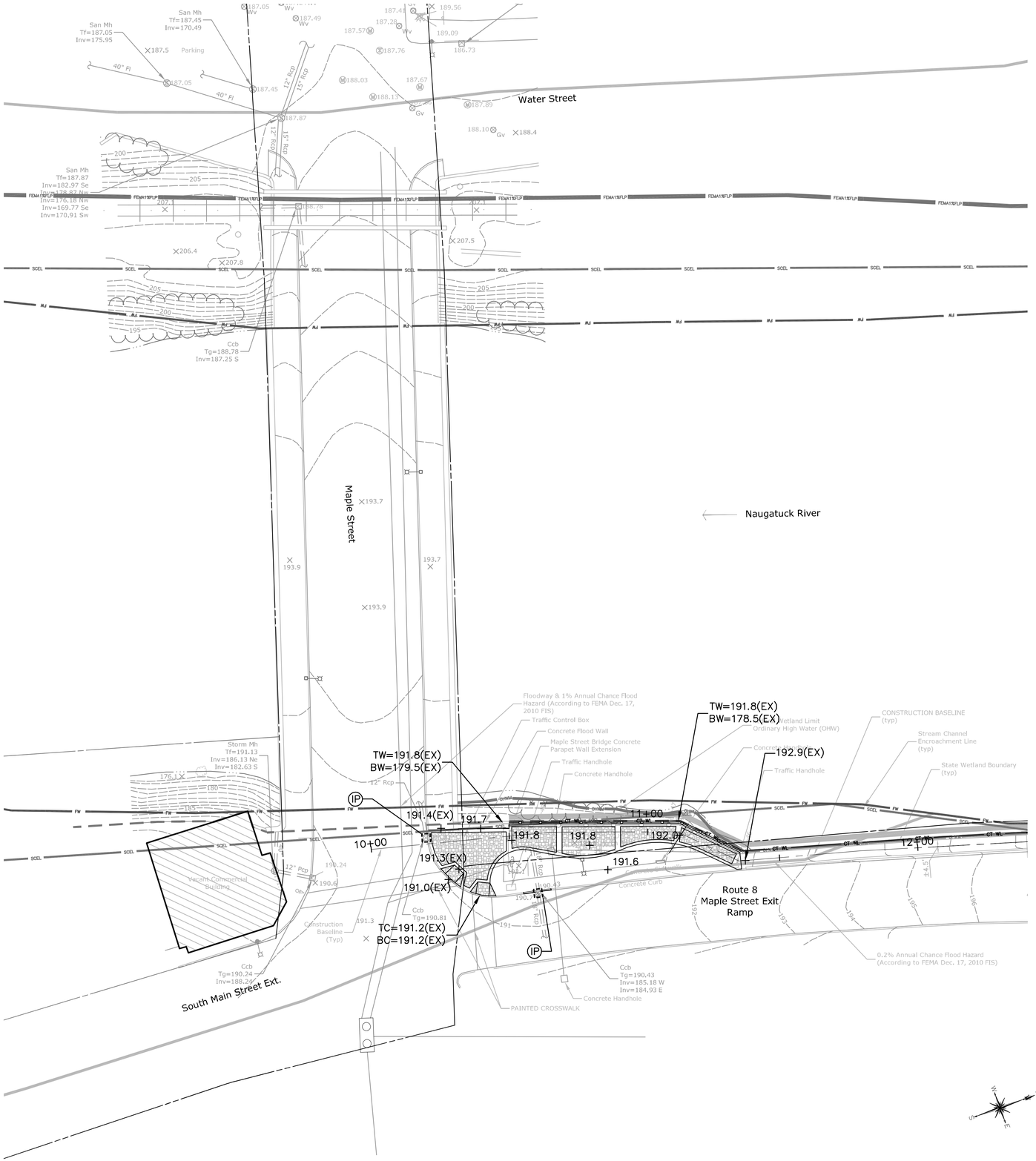
2129-11 PROJECT NO.

LA-6

SHEET NO. 18 OF 48

SEDIMENT & EROSION CONTROL LEGEND

- SCS — SEDIMENTATION CONTROL SYSTEM
- CL — CLEARING/DISTURBANCE LIMITS
- IP — INLET PROTECTION (AT CATCH BASINS AS SHOWN)
- CE — CONSTRUCTION ENTRANCE (ANTI-TRAKING PAD)



CONSTRUCTION DRAWINGS

SITE PLAN - GRADING, UTILITIES, SEDIMENT & EROSION CONTROLS

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK

NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
FEDERAL PROJECT NO. PEDS(090)

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SCALE 1"=20'

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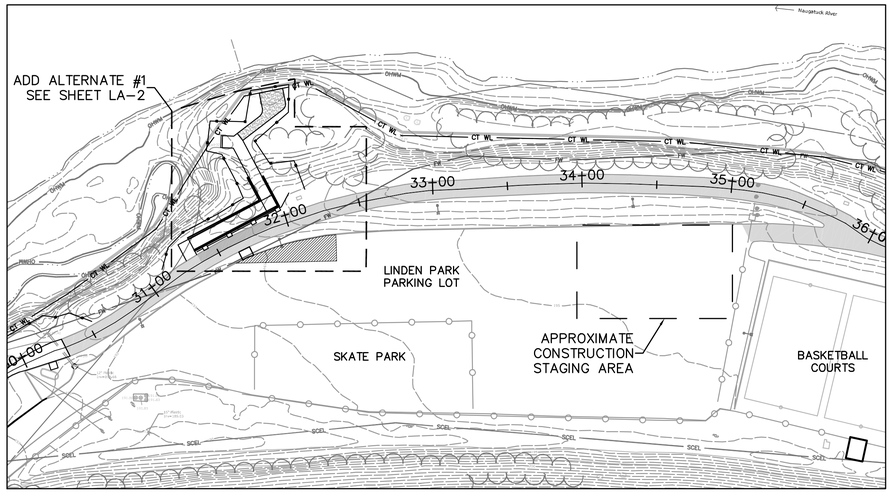
PROJECT NO. 2129-11

SHEET NO. GR-1 19 OF 48

0 (1/2") 10' (1") 20' 40' 60'



INSET - CONSTRUCTION STAGING AREA
SCALE: 1"=50'

NOTES:
1. CONTRACTOR TO COORDINATE AREA AND CONFIGURATION NEEDED FOR STAGING WITH THE BOROUGH TO MINIMIZE IMPACTS TO PARKING AREA.
2. CONTRACTOR WILL BE RESPONSIBLE FOR ANY REPAIRS TO STAGING AREA PER SATISFACTION OF BOROUGH ENGINEER AT NO ADDITIONAL COST TO THE BOROUGH.

SEDIMENT & EROSION CONTROL LEGEND

- SCS — SEDIMENTATION CONTROL SYSTEM
- CL — CLEARING/DISTURBANCE LIMITS
- IP — INLET PROTECTION (AT CATCH BASINS AS SHOWN)
- CE — CONSTRUCTION ENTRANCE (ANTI-TRAKING PAD)

ITEMS INCLUDED WITHIN THESE LIMITS (EXCLUDING SHADE TREES ALONG THE EXISTING BITUMINOUS WALK) SHALL BE PAID FOR UNDER ADD ALTERNATE #1 (RIVER ACCESS COMPLETE)

1-6" RISER
TS=189.5
BS=189.0

TW=191.5
BW=191.0

191.0

TW=191.3
BW=190.8

CL

TW=194.2
BW=191.7

192.0

TW=194.5
BW=193.0

SCS

193.0

191.7

194.0

194.4

194.4

194.4

TW=195.5
BW=193.0

TW=195.7
BW=191.7

194.2

TW=194.9
BW=194.4

Naugatuck River

Federal Wetland Limit
Ordinary High Water (OHW)

Edge of Pavement (typ)

TW=193.0
BW=192.0

192.3

12" Plastic
Inv=189.40

30+00

192.6

193.0

12" Plastic
Inv=190.66

193.2

42" Cmp
Inv=184.82

Floodway & 1% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)

Bituminous Parking

TW=193.2
BW=193.0

194.0

Concrete Modular Block Planter

15" Plastic
Inv=189.03

Storm Mh
TF=194.86
Inv=187.90 Se
Inv=185.64 Nw

Bituminous Access Drive

TC=192.5
BC=192.0

SCS

29+00

TC=193.8
BC=193.3

194.7

Rock Outcrop

Stream Channel Encroachment Line (typ)

State Wetland Boundary (typ)

Concrete Sidewalk

26+00

27+00

28+00

Route 8
South Main Street Ext.
On-Ramp

15" Rcp

Ccb
Tg=193.52
Inv=188.58 N,mw

Ccb
Tg=194.28
Inv=188.55 Se
Inv=188.18 Nw

Route 8
Overpass

Entrance to Linden Park

0.2% Annual Chance Flood Hazard
(According to FEMA Dec. 17, 2010 FIS)

Bituminous Path (typ)

Bituminous Parking

Skateboard Area

Directional Signage

Route 8

0 (1/2") (1") 20' 40' 60'

CONSTRUCTION DRAWINGS

SITE PLAN - GRADING, UTILITIES, SEDIMENT & EROSION CONTROLS

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
FEDERAL PROJECT NO. PEDS(090)

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2129-11
PROJECT NO.

GR-2
SHEET NO. 20 OF 48

SEDIMENT & EROSION CONTROL LEGEND

- SCS — SEDIMENTATION CONTROL SYSTEM
- CL — CLEARING/DISTURBANCE LIMITS
- IP — INLET PROTECTION (AT CATCH BASINS AS SHOWN)
- CE — CONSTRUCTION ENTRANCE (ANTI-TRAKING PAD)

Federal Wetland Limit
Ordinary High Water (OHW)

Naugatuck River

Floodway & 1% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)

State Wetland Boundary (typ)

CONSTRUCTION BASELINE (typ)

Bituminous Path (typ)

47+00
48+00
49+00
50+00
51+00
52+00
53+00

SCS

CE

CL

200.5

200.0(EX)

TW=200.9
BW=200.0

198.8

198.5

Bituminous Area

Storage Shed

Open Lawn

Rock Outcrop

Stream Channel
Encroachment Line

Route 8

0.2% Annual Chance Flood Hazard
(According to FEMA Dec. 17, 2010 FIS)

CONSTRUCTION
STAGING AREA

15" CMP
Inv=195.62
Tg=196.5

Ccb
Tg=218.92
Inv=210.92 Nw,se

15" RCP

MATCHLINE - SEE SHEET GR-4

0 (1/2") 10' (1") 20' 40' 60'

CONSTRUCTION DRAWINGS

SITE PLAN - GRADING, UTILITIES, SEDIMENT & EROSION CONTROLS

NAUGATUCK PEDESTRIAN GREENWAY
PHASE 1
MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

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PROJECT NO. 2129-11

SHEET NO. GR-3

MATCHLINE - SEE SHEET GR-3

0.2% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)

1% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)

Stream Channel Encroachment Line (typ)

Floodway (According to FEMA Dec. 17, 2010 FIS)

Bituminous Parking

Polish American Club 189 Esplin (Pulaski) Walk

Lawn

Granite Monument and Flagpole

General Pulaski Walk

General Pulaski Pedestrian Bridge

Refer to Structure Sheets for More Detailed Existing Conditions Information Pertaining to the Pedestrian Bridge

Stone Hill Tf=200.82 Inv=196.17 Ne Inv=193.62 N Inv=193.52 Nw,se

Clcb Tg=200.25 Inv=196.67

201.83

204.0(EX)

205.0(EX)

62+36

62+00

63+00

54+00

55+00

56+00

57+00

58+00

59+00

207.6 + 207.8

203.0(EX)

207.5

208.2

204.4

204.6

TW=203.2 BW=200.5

TW=203.7 BW=203.0

TW=204.9 BW=204.2

REMOVE AND REPLACE ±18 LF 15" RCP PIPE

TW=208.2 BW=200.0

Federal Wetland Limit
Ordinary High Water (OHW)

TW=208.0 BW=198.5

TW=207.6(EX) BW=203.0(EX)

TW=206.7(EX) BW=206.5

TW=205.2(EX) BW=205.0

12 LF 15" CCM THROUGH WALL (S=0.52)

Naugatuck River

TW=204.2(EX) BW=204.1

MATCH EX. INV.
4 LF 15" CCM THROUGH WALL (S=0.005)

MANHOLE (STORM)
T.G.=204.2
INV.=200.6
TW=204.2(EX) BW=204.1
TW=211.0 BW=204.4

REMOVE AND REPLACE ±18 LF 15" CCM PIPE

TW=204.5(EX) BW=204.4

TW=202.4(EX) BW=202.3

TW=202.7(EX) BW=202.6

End Steel Bin Wall
Begin Concrete Flood Wall

State Wetland Boundary (typ)

Floodway & 1% Annual Chance Flood Hazard (According to FEMA Dec. 17, 2010 FIS)

Construction Baseline 15" Rcp Inv=±200.50

Concrete Flood Wall

Route 8 Union City Street On-Ramp

Concrete Barrier Wall (typ)

Metal Beam Guardrail (typ)

CONSTRUCTION BASELINE (typ)

Begin Steel Bin Wall

EXISTING STEEL BIN WALL

N: 743184.82
E: 918011.19
ELEV: ±219.41

N: 743310.9
E: 918128.91
ELEV: ±216.20

N: 743310.22
E: 918210.75
ELEV: ±21.30

N: 743517.96
E: 918306.2
ELEV: ±206.40

NB-4

NB-3

NB-2

NB-1

TW=212.0 BW=205.0

TW=211.0 BW=207.0

TW=213.0 BW=206.4

TW=211.0 BW=205.0

TW=210.0 BW=208.0

TW=213.0 BW=208.0

SPECIAL TYPE "C-L" CB INV.=±206.7

EOP=211.3

TW=214.7 BW=204.5

TW=213.5 BW=204.8

EOP=210.0

TW=211.7 BW=203.8

EOP=208.0

EOP=206.0

TW=209.5 BW=205.1

EOP=205.3

TW=MATCH EX. (±208.1) BW=205.3

205.5(EX)

205.1

Ccb Tg=220.42 Inv=216.25 Nw,e

Clcb Tg=211.5 Inv=±206.7

Clcb Tg=204.73 Inv=201.33 S Inv=±200.3 NW

NB=1206.62

SCS Sedimentation Control System

CL Clearing/Disturbance Limits

IP Inlet Protection (at catch basins as shown)

CE Construction Entrance (anti-traking pad)

Route 8

SEDIMENT & EROSION CONTROL LEGEND

- SCS SEDIMENTATION CONTROL SYSTEM
- CL CLEARING/DISTURBANCE LIMITS
- IP INLET PROTECTION (AT CATCH BASINS AS SHOWN)
- CE CONSTRUCTION ENTRANCE (ANTI-TRAKING PAD)

NOTES:

1. BOTTOM OF WALL (BW) ALONG THE FLOODWALL IS TO DESIGNATE ELEVATION OF EDGE AT TRAIL IN RELATION TO THE TOP OF THE EXISTING WALL. REFER TO SHEETS LAYOUT SHEETS LA-5 AND LA-6 AND STRUCTURAL SHEETS S-3 TO S-8 FOR MORE DETAILED INFORMATION.
2. CONSTRUCTION ACCESS FOR TRAIL WORK IN THIS AREA WILL BE FROM ROUTE 8 UNION CITY STREET ON-RAMP. REFER TO STRUCTURAL AND MP&T PLANS FOR MORE DETAIL.
3. CONSTRUCTION ACCESS FOR WORK ON THE PEDESTRIAN BRIDGE WILL BE FROM ROUTE 8 ON-RAMP AND GENERAL PULASKI WALK.

0 (1/2") 10' (1") 20' 40' 60'

CONSTRUCTION DRAWINGS

SITE PLAN - GRADING, UTILITIES, SEDIMENT & EROSION CONTROLS

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
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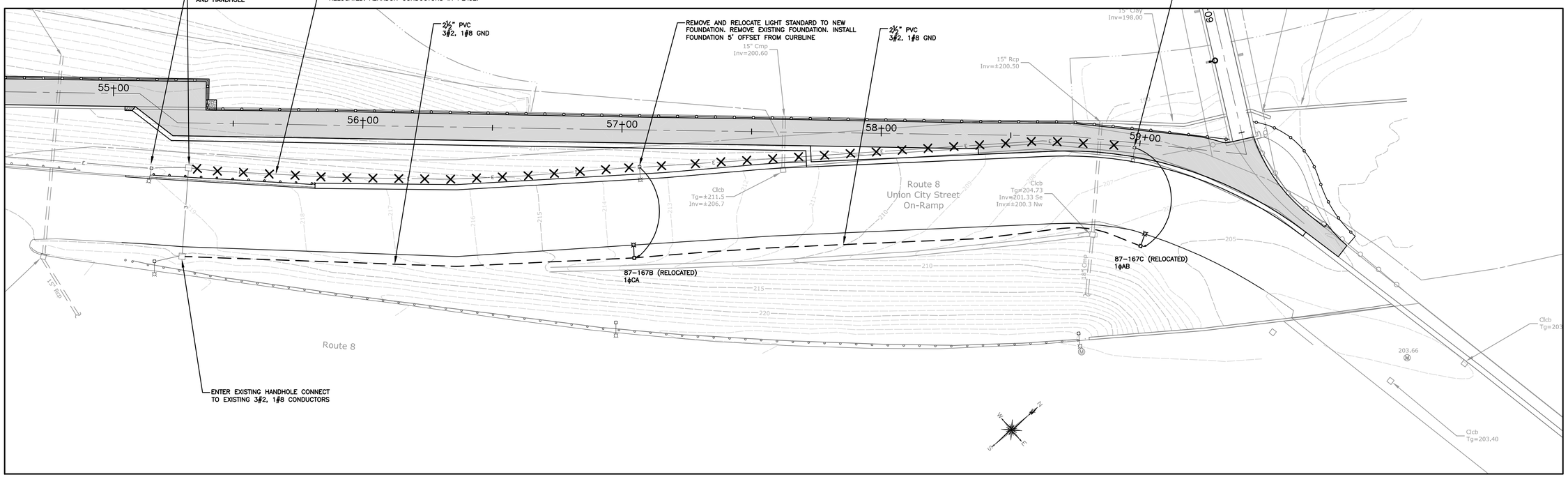
PROJECT NO. 2129-11

SHEET NO. GR-4

22 OF 48



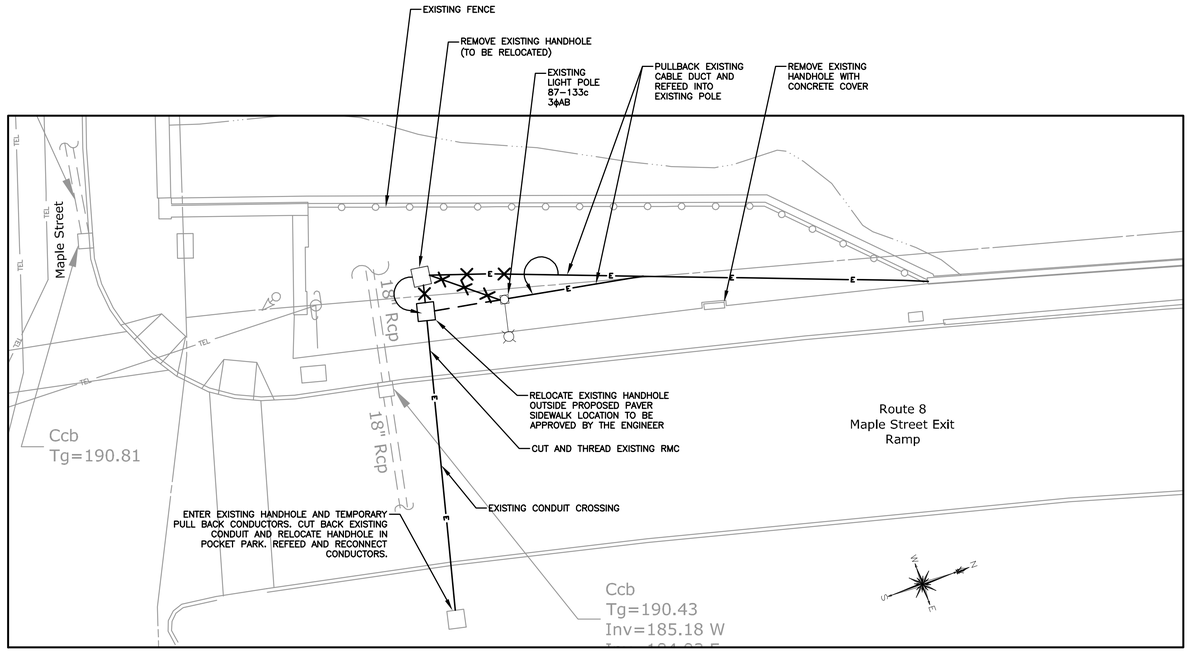
ROUTE 8 ON-RAMP - UNION CITY

SCALE: 1"=20'-0"

(1/2") (1") 0 10' 20'

ILLUMINATION NOTES

1. THE CONTRACTOR SHALL INSTALL NEW CONDUIT, FOUNDATIONS AND CIRCUITRY PRIOR TO THE RELOCATION/REMOVAL OF THE EXISTING FACILITIES. THE ILLUMINATION/ELECTRICAL WORK SHALL BE CARRIED OUT IN SUCH A MANNER THAT THERE IS NO DIRUPTION IN NIGHTTIME ILLUMINATION ON ROUTE 8 AND ASSOCIATED RAMPS. SEE SECTION 10.00 FOR SPECIFIC REQUIREMENTS. ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, CONNECTICUT STANDARD SPECIFICATIONS, AND WHERE APPLICABLE, UTILITY COMPANY REGULATIONS.
2. REFER TO DRAWING EL-2 FOR DOT ELECTRICAL LIGHTING DETAILS.
3. THE CONTRACTOR SHALL ABIDE BY CONNDOT LOCKOUT/TAGOUT PROCEDURES WHEN ACCESS TO A LIGHTING CIRCUIT IS REQUIRED. THE CONTRACTOR SHALL CONTACT MR. DAVE MORIARTY AT (203) 264-6788 FOR ACCESS TO THE EXISTING LIGHTING CABINET.
4. LIGHTING CIRCUITRY IS 480V/3 PHASE/3 WIRE. CONDUCTORS SHALL BE COPPER, INSULATION TYPE THHW AND RATED FOR 600 VOLTS. CONDUCTORS SHALL BE FACTORY COLOR CODED USING THE SAME CODE THROUGHOUT EACH LIGHTING CIRCUIT. COLOR CODE SHALL BE: BLACK, RED, WHITE.
5. INSTALL ONE NUMBER 8 BARE COPPER GROUNDING CONDUCTOR THROUGHOUT ALL LIGHTING CIRCUITS.
6. TAPE ALL UNUSED CONDUCTORS.
7. IN AREAS WHERE EXISTING LIGHT STANDARDS ARE TO BE REMOVED AND EXISTING CIRCUITS NO LONGER USED, THE ASSOCIATED CONDUITS AND CABLES SHALL BE DISCONNECTED AND ABANDONED IN PLACE (EXCEPT WHERE NOTED).8) PRIOR TO TRENCHING THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AND HAVE ALL EXISTING UNDERGROUND ELECTRICAL FACILITIES PROPERLY MARKED OUT INCLUDING BUT NOT LIMITED TO: TRAFFIC SIGNAL AND INTERCONNECT CABLES, DUCT BANK SYSTEMS AND FIBER OPTIC CABLES, AND EXISTING ILLUMINATION CIRCUITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL EXISTING FACILITIES DAMAGED BY HIS TRENCHING OPERATION.
8. COORDINATE ROUTING OF UNDERGROUND CONDUIT WITH LANDSCAPING.
9. THE CONTRACTOR SHALL HAND DIG TRENCHES IN AREAS WHERE REQUIRED TO AVOID EXISTING UNDERGROUND UTILITIES, SUCH AS IN AREAS WHERE EXISTING CIRCUITS INTERSECT.
10. INSTALL INSULATED BONDING BUSHINGS (WITH GROUND LUG) ON ALL RMC TERMINATIONS, IN HANDHOLES, LIGHT POLE FOUNDATIONS, AND LIGHTING CABINETS.
11. INSTALL DUCT SEAL IN ALL CONDUIT TERMINATIONS.
12. CONNDOT LIGHTING CABINET LOCATED ON SOUTH MAIN STREET (AT RTE. 8 SOUTHBOUND ON RAMP) IN NAUGATUCK.



MAPLE STREET POCKET PARK

SCALE: 1"=10'-0"

(1/2") (1") 0 5' 10'

KEY

- 2½" PVC 3#2, 1#8 GND
- E — EXISTING CABLE IN DUCT 3#2, 1#8 GND
- DISCONNECT AND ABANDON EXISTING UNDERGROUND CIRCUITRY (EXCEPT WHERE NOTED)
- EXISTING LIGHT STANDARD AND FOUNDATION
- 87-XXXX — POLE NO.
- 2#AB — CIRCUIT PHASE
- CIRCUIT NO.

CONSTRUCTION DRAWINGS

SITE PLAN - ELECTRICAL - CONNDOT HIGHWAY ILLUMINATION

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK

NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
FEDERAL PROJECT NO. PEDS(090)

DESIGNED	DRAWN	CHECKED
MTD	MTD	MRA

SCALE: AS NOTED

DATE: JANUARY 5, 2012

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MILONE & MACBROOM
99 Realty Drive
Cheshire, Connecticut 06410
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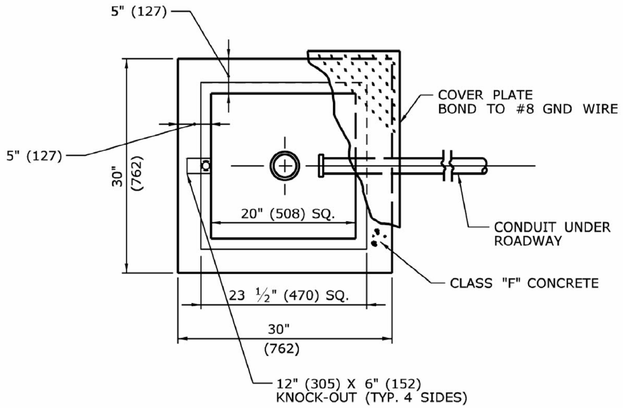
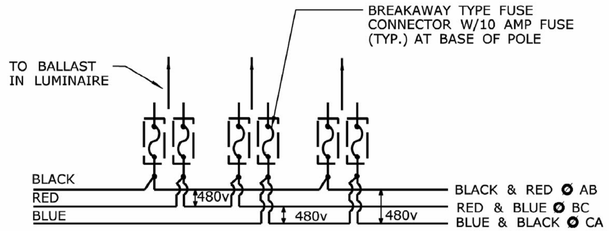
PROJECT NO. 2129-11

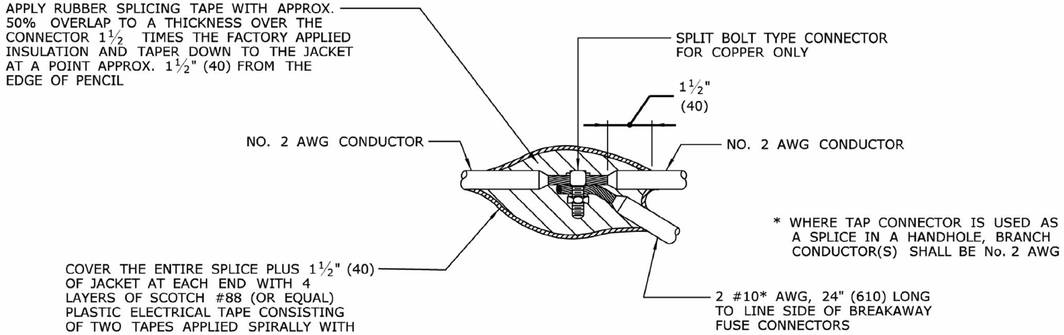
SHEET NO. EL-1

SHEET NO. 23 OF 48



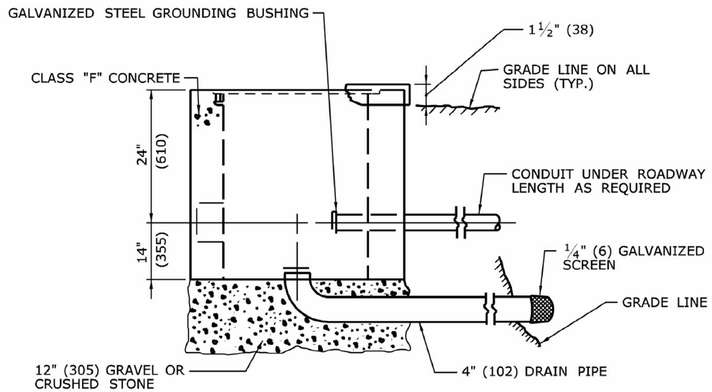


3 PHASE 3 WIRE SYSTEM

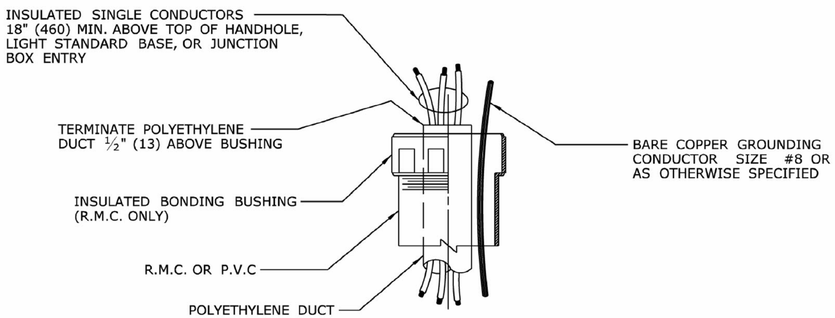


TAP CONNECTOR

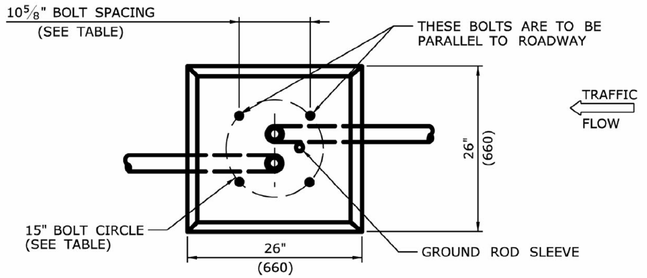
TO BE USED IN HANDHOLES AND
W/TWIN LUMINAIRE LIGHT STANDARDS

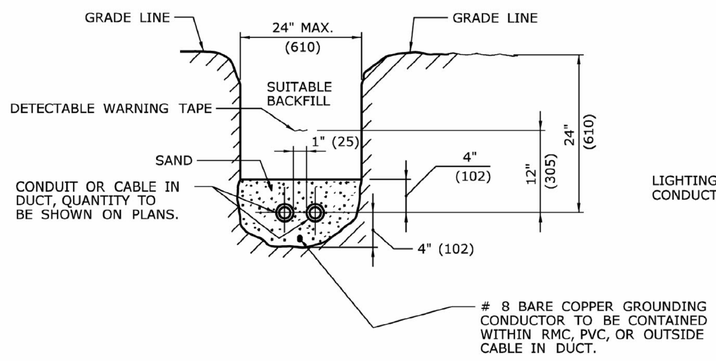


CONCRETE HANDHOLE - TYPE I

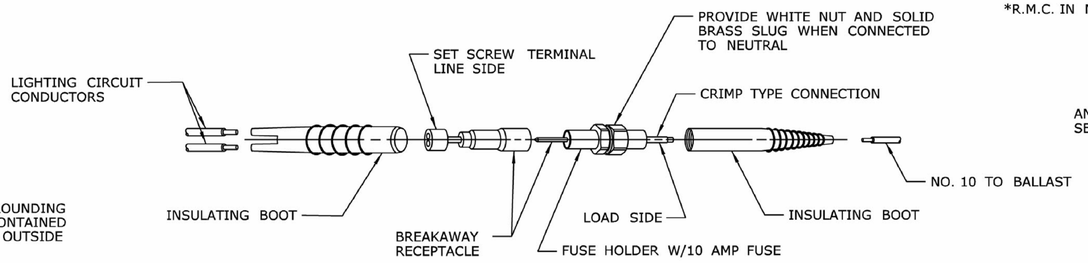


CABLE IN DUCT TERMINATION AT LIGHT STANDARD BASE, HANDHOLE AND CAST IRON JUNCTION BOX

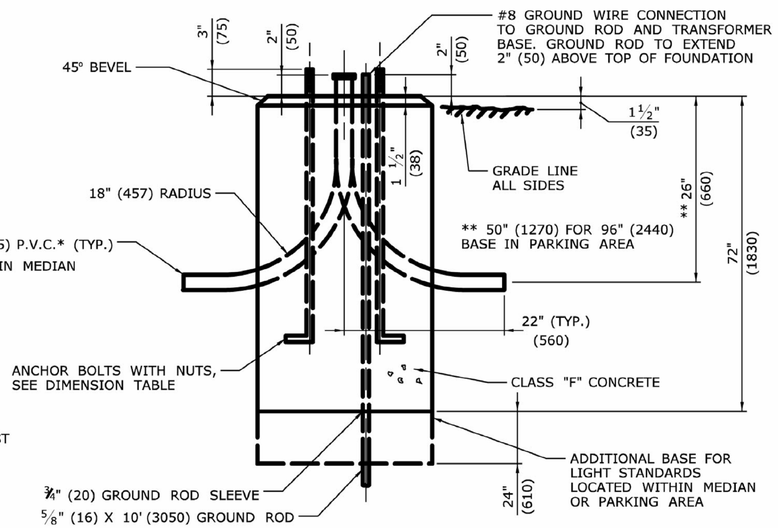




BURIED CONDUIT OR CABLE IN DUCT



BREAKAWAY TYPE FUSE CONNECTOR



LIGHT STANDARD FOUNDATION (TYPE I)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 6/14/2011

DESIGNER/DRAFTER: FC
CHECKED BY: MSB
NO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: \DOT_ELECTRICAL_DETAILS.dgn

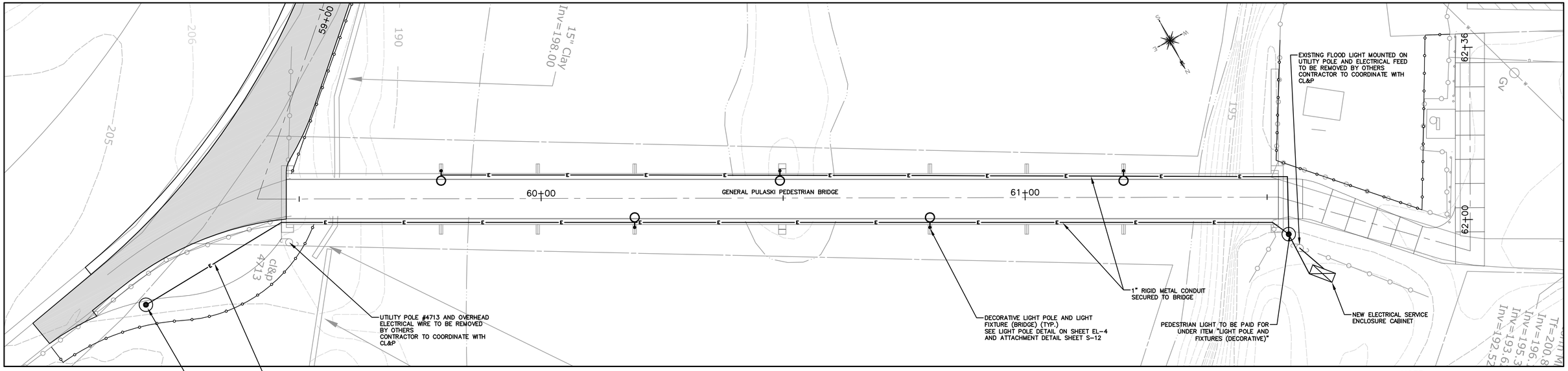
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE: NAUGATUCK PEDESTRIAN GREENWAY - PHASE 1 MAPLE ST - GEN PULASKI WALK

TOWN: NAUGATUCK

DRAWING TITLE: DOT ELECTRICAL DETAILS

PROJECT NO. 87-143
DRAWING NO. EL-2
SHEET NO. 24 OF 48



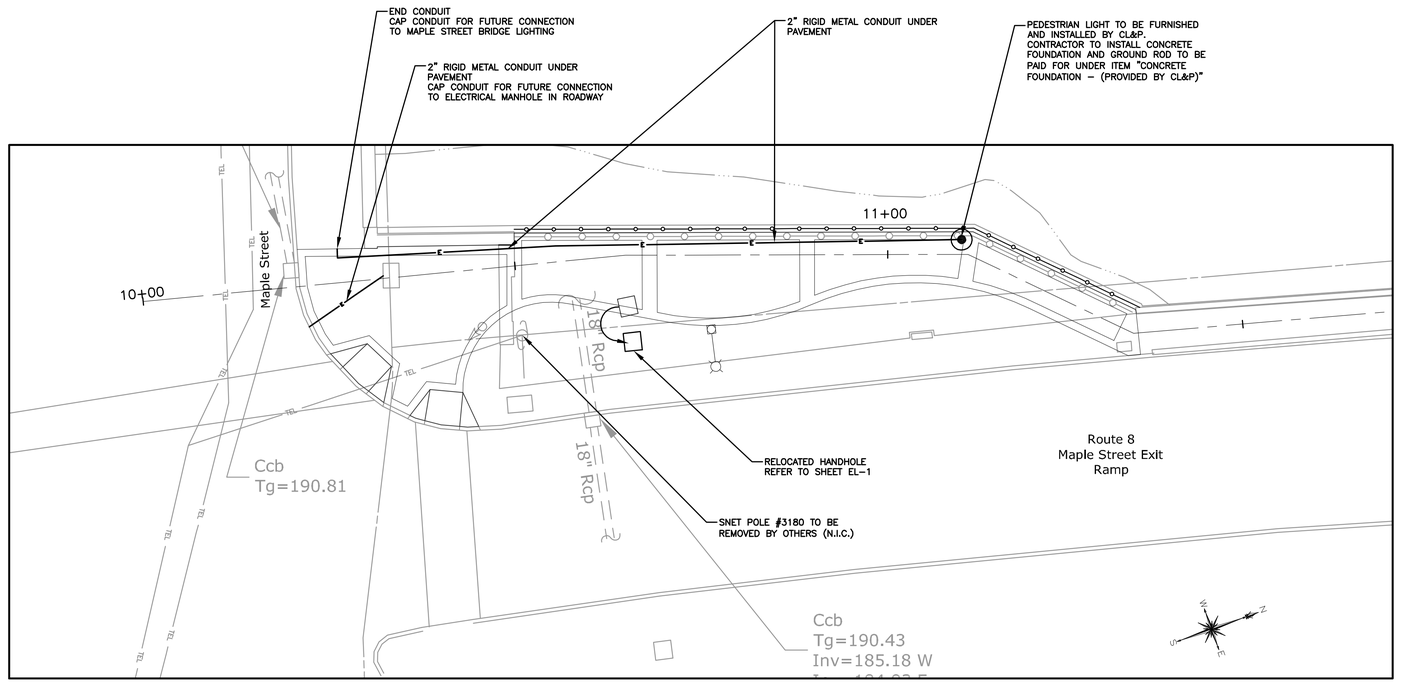
ADD ALTERNATE #3 - GENERAL PULASKI PEDESTRIAN BRIDGE

SCALE: 1"=10'-0"

GENERAL NOTES: ADD ALTERNATE #3

1. THE BOROUGH OF NAUGATUCK WILL OWN, MAINTAIN AND PAY FOR ALL ENERGY COSTS FOR THE DECORATIVE LIGHTS INSTALLED AT THE GENERAL PULASKI PEDESTRIAN BRIDGE.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR FURNISHING AND INSTALLING THE LIGHT POLES, LUMINAIRES, CONDUIT AND WIRING FOR ALL PROPOSED LIGHTS AT THE GENERAL PULASKI BRIDGE. REFER TO LIGHTING NOTES AND DETAILS FOR GENERAL PULASKI PEDESTRIAN BRIDGE ON SHEET EL-4.
3. THE CONTRACTOR WILL BE RESPOSIBLE FOR MAKING THE FINAL ELECTRICAL CONNECTIONS AT ALL THE LIGHTS FOR THE GENERAL PULASKI PEDESTRIAN BRIDGE.

NOTE:
PROVIDE CONDUIT EXPANSION FITTINGS AT BOTH ABUTMENTS (COST TO BE INCLUDED IN THE ITEM "2" RIGID METAL CONDUIT – SURFACE")



MAPLE STREET POCKET PARK

SCALE: 1"=10'-0"

GENERAL NOTES: MAPLE STREET POCKET PARK

1. CL&P WILL OWN AND MAINTAIN THE LIGHTS AT THE MAPLE STREET POCKET PARK. THE BOROUGH OF NAUGATUCK WILL PAY FOR ALL ENERGY COSTS AND MAINTENANCE FEES INCURRED.
2. CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING CONDUIT, LIGHT POLE FOUNDATION AND GROUND WIRE FOR PEDESTRIAN LIGHT AT MAPLE STREET POCKET PARK. REFER TO LIGHTING NOTES ON SHEET EL-4.
3. CL&P TO FURNISH AND INSTALL LIGHT POLES, LUMINAIRES, CONDUCTORS, AND WIRES FOR PEDESTRIAN LIGHTS AT MAPLE STREET.
4. CL&P WILL MAKE ALL FINAL ELECTRICAL CONNECTIONS FOR THE LIGHT AT MAPLE STREET.
5. CONNECTICUT LIGHT & POWER (CL&P) CONTACT:
   MR. VINCENT TATA,
   ELECTRICAL SERVICE DESIGNER
   ENGINEERING/NEW SERVICE
   250 FREIGHT ST.
   WATERBURY, CT 06702
   PHONE: 203-597-4423
   EMAIL: tatavj@nu.co

CONSTRUCTION DRAWINGS

SITE PLAN - ELECTRICAL - CL&P AND BOROUGH LIGHTING

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
FEDERAL PROJECT NO. PEDS(090)

MTD DESIGNED	MTD DRAWN	MRA CHECKED
SCALE: AS NOTED		
DATE: JANUARY 5, 2012		

SILVER / PETRUCELLI + ASSOCIATES
Architects and Engineers
3150 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucelli.com

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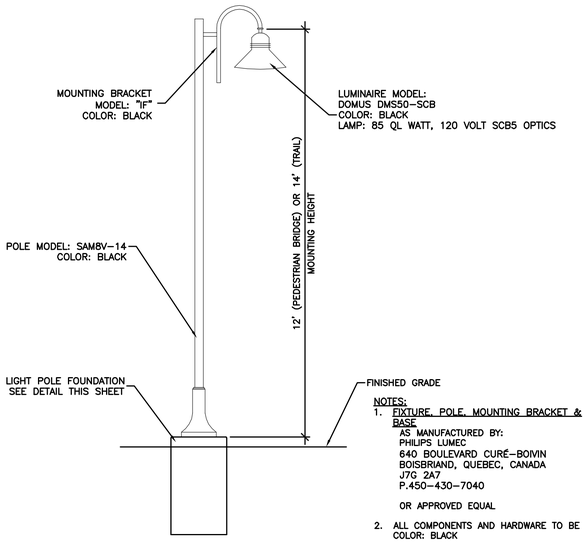
PROJECT NO. 2129-11

SHEET NO. EL-3 25 OF 48

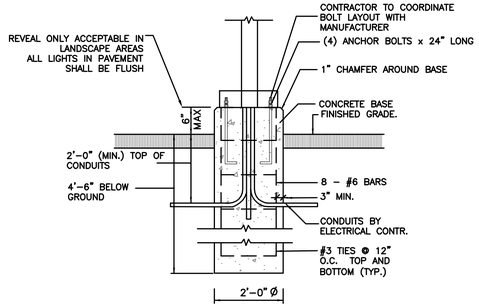
BASE BID DETAILS



NOTES:
1. FIXTURE, POLE, MOUNTING BRACKET & BASE
   AS MANUFACTURED BY:
   PHILIPS LUMEC
   640 BOULEVARD CURÉ-BOIVIN
   BOISBRIAND, QUEBEC, CANADA
   J7G 2A7
   P.450-430-7040

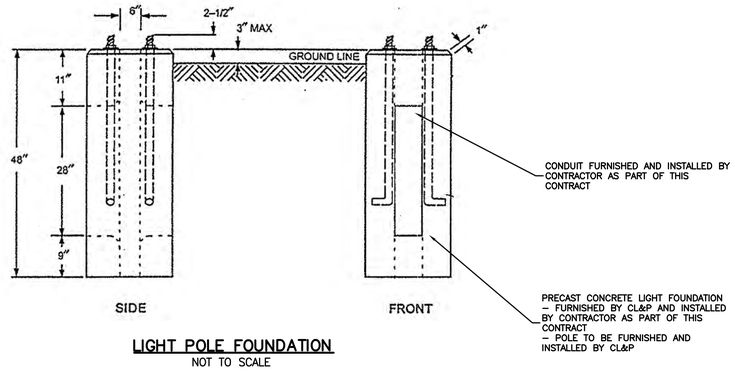
   OR APPROVED EQUAL
2. ALL COMPONENTS AND HARDWARE TO BE COLOR: BLACK
3. PROVIDE SHOP DRAWINGS FOR APPROVAL
4. FOR MOUNTING DETAILS FOR PEDESTRIAN BRIDGE SEE STRUCTURAL PLANS.

LIGHT POLE AND FIXTURES (DECORATIVE)
NOT TO SCALE



FOUNDATION DETAIL
NOT TO SCALE

NOTE:
1. COST FOR LIGHT FOUNDATION TO BE INCLUDED UNDER ITEM "LIGHT POLE AND FIXTURES (DECORATIVE).



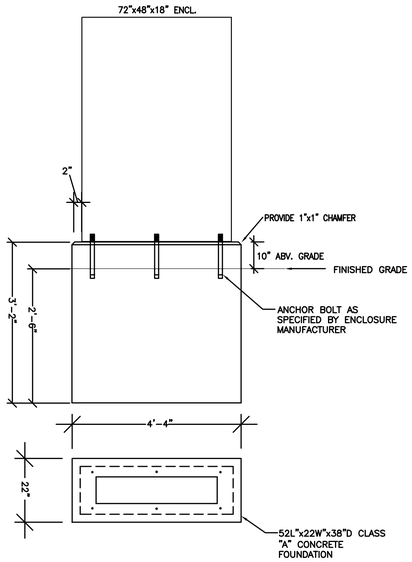
LIGHT POLE FOUNDATION
NOT TO SCALE

LIGHTING NOTES:

1. CL&P WILL FURNISH AND INSTALL DECORATIVE LIGHT POLES & LUMINAIRE.
2. CL&P WILL PROVIDE CONCRETE LIGHT POLE BASES FOR CONTRACTOR TO INSTALL.
3. THE CONTRACTOR SHALL INSTALL CL&P FURNISHED CONCRETE BASES AND COORDINATE AVAILABILITY OF BASES WITH CL&P.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT FOR LIGHTING.
5. CONTRACTOR TO FURNISH AND INSTALL PHOTO SENSORS COMPATIBLE WITH THE TWIST LOCK RECEPTACLE FOR ALL LUMINAIRES.
6. CL&P WILL FURNISH AND INSTALL WIRE FOR LIGHTING.
7. INSTALL GROUND ROD AT TIME OF BASE INSTALLATION. GROUND ROD AND CONNECTOR SHALL BE BELOW GRADE WITH #6 COPPER GROUND WIRE RUN UP THROUGH THE CENTER OF THE BASE.
8. CONTRACTOR TO INSTALL ALL CONCRETE LIGHT POLE FOUNDATIONS; PLUMB AND LEVEL AS FURNISHED BY CL&P; CONTRACTOR TO FURNISH AND INSTALL GROUND RODS AND CONDUIT PER PLAN AND DETAILS. CL&P TO FURNISH AND INSTALL LIGHT POLES AND PULL WIRE FOR CONNECTIONS.
9. CONTRACTOR SHALL VERIFY LOCATIONS OF EX. UTILITIES PRIOR TO INSTALLING LIGHT BASES. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR RESOLUTION.
10. CL&P TO MAKE ALL FINAL ELECTRICAL CONNECTIONS.

CL&P LIGHTING DETAILS AND NOTES – MAPLE STREET POCKET PARK

ADD ALTERNATE #3 – DETAILS



SERVICE ENCLOSURE FOUNDATION DETAIL
NOT TO SCALE

FOUNDATION NOTES:

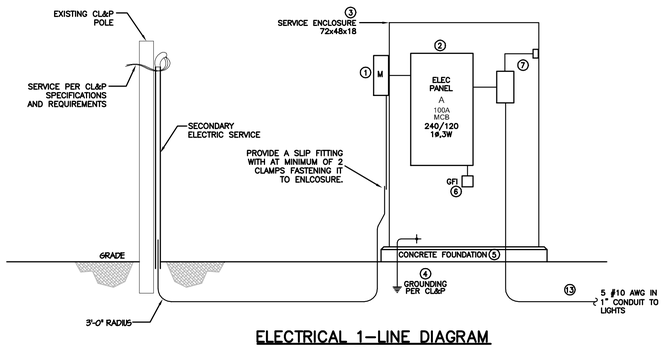
1. INSTALL FOUNDATION ON 6" 3/4" CRUSHED STONE OR PROCESSED GRAVEL
2. LEVEL FOUNDATION WITH A PROJECTION OF 10" ABOVE FINISHED GRADE.
3. PLACE 3/4" CRUSHED STONE OR PROCESSED GRAVEL IN THE CENTER OPENINGS AFTER THE CONDUITS AND GROUND ROD HAVE BEEN INSTALLED. THE OPENINGS SHALL BE CAPPED WITH A 2" GROUT LEVEL WITH THE TOP OF THE FOUNDATION AND NEATLY FINISHED. THE GROUT SHALL CONFORM WITH THE REQUIREMENTS OF DOT ARTICLE M.3.01-12.
4. CONCRETE SHALL BE CLASS "A" CONFORMING TO ARTICLE M. 03.01.

LIGHTING NOTES – GENERAL PULASKI PEDESTRIAN BRIDGE

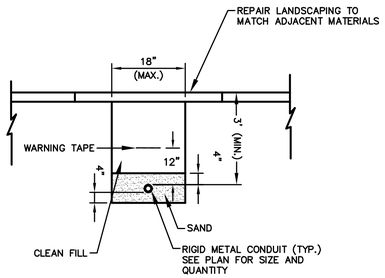
1. THE INTENT OF THESE CONTRACT DOCUMENTS ARE FOR THE CONTRACTOR TO FURNISH AND INSTALL A COMPLETE ELECTRICAL SYSTEM. SYSTEM SHALL BE COMPLETE IN ALL RESPECTS, OPERATING, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
2. THE CONTRACTOR SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS, INCLUDING PROJECT MANUALS, PLANS AND SPECIFICATIONS OF ALL TRADES BEFORE SUBMITTING THE BID. CONTRACTOR SHALL WALK THROUGH SITE PRIOR TO SUBMITTING BID.
3. CONTRACT DOCUMENTS AND SPECIFICATIONS ARE COMPLIMENTARY TO FORM A COMPLETE DESIGN PACKAGE. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER TO DETERMINE WHICH TRADE CONTRACTOR IS RESPONSIBLE FOR VARIOUS PORTIONS OF THE WORK.
4. ALL WORK AND ACTION DEPICTED AND DESCRIBED SHALL BE PERFORMED BY THE CONTRACTOR AND SHALL CARRY IN THEIR BASE BID UNLESS SPECIFICALLY NOTED OTHERWISE. COORDINATE WITH BID ALTERNATES.
5. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
6. ALL EQUIPMENT, MATERIALS AND RELATED SYSTEMS COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.
7. CONTRACTOR SHALL REPAIR AND/OR REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.
8. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT WITH ALL TRADES BEFORE STARTING CONSTRUCTION.
9. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE APPLICABLE CODES IN THE ORDINANCES AND THE REGULATORY AGENCIES HAVING JURISDICTION.
10. WHEN CONFLICTS OCCUR BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR SHALL CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
11. ALL BRANCH CIRCUIT WIRING SHOWN IS DIAGRAMMATIC. EXACT ROUTING SHALL BE FIELD COORDINATED TO CLEAR THE WORK OF OTHER TRADES.

1-LINE DIAGRAM NOTES:

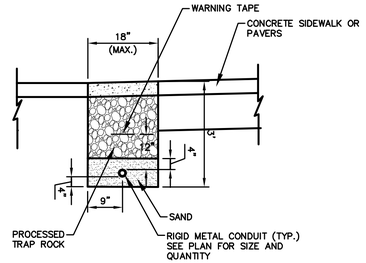
1. CONTRACTOR TO FURNISH AND INSTALL UTILITY APPROVED 100A, 1Ø, 240V IN-LINE METER SOCKET. MOUNT TO EXTERIOR OF ENCLOSURE. CL&P WILL FURNISH AND INSTALL THE METER.
2. PROVIDE 100A, 1Ø, 240V, 3WIRE, 20 CIRCUIT PANELBOARD WITH 100A MAIN BREAKER PLUS THREE 20/1 BREAKERS FOR SITE LIGHTING CIRCUIT, TIME CLOCK AND RECEPTACLE. PROVIDE FOUR 20/1 SPARE BREAKERS.
3. FURNISH & INSTALL NEW OUTDOOR RATED, FREE STANDING ENCLOSURE FOR INSTALLATION OF UTILITY METER AND ELECTRICAL SERVICE & CONTROL COMPONENTS. ENCLOSURE SHALL BE A MINIMUM 72"Hx48"Wx18"D.
4. PROVIDE SERVICE GROUND WITH 3/4", 10' GROUND ROD PER NEC ARTICLE 250.
5. PROVIDE CONCRETE FOUNDATION FOR ELECTRICAL CABINET. COORDINATE SIZE AND OPENING WITH CABINET. REFER TO FOUNDATION DETAIL ON THIS SHEET FOR ADDITIONAL INFORMATION.
6. PROVIDE GFI SERVICE RECEPTACLE TO BE INSTALLED WITHIN ENCLOSURE AND IS TO BE EASILY ACCESSIBLE WHEN ENCLOSURE IS OPEN.
7. PROVIDE TIMECLOCK, ELECTRONIC 7-DAY TYPE. PROGRAM SCHEDULE AS COORDINATED WITH OWNER. PROVIDE BUTTON TYPE PHOTOCONTROL IN ENCLOSURE AND CONNECTION TO TIMECLOCK.
8. PROVIDE PULL STRINGS AND CONDUIT END COVERS FOR ALL SPARE OR EMPTY CONDUITS.
9. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY REQUIREMENTS AND STANDARDS.
10. PROVIDE WHITE PAINTED ALUMINUM BACKPLATE FOR EQUIPMENT MOUNTING.
11. SEAL ALL CONDUITS AS REQUIRED BY CODE.
12. ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC EXCEPT WHERE NOTED ON THE PLANS.
13. RUN TWO 120V, 20A BRANCH CIRCUITS TO LIGHTS. CONNECT 4 LIGHTS TO ONE CIRCUIT AND 3 LIGHTS TO THE OTHER, ALTERNATING ALONG THE RUN.
14. CONTRACTOR TO MAKE ALL FINAL ELECTRICAL CONNECTIONS.



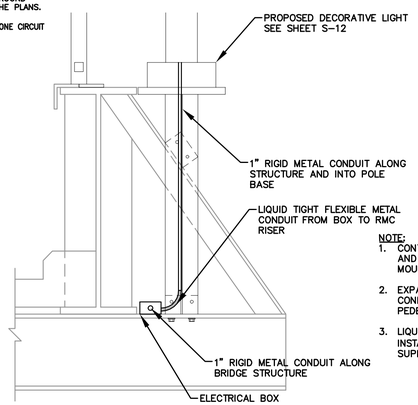
ELECTRICAL 1-LINE DIAGRAM
NOT TO SCALE



RIGID METAL CONDUIT IN TRENCH
NOT TO SCALE



RIGID METAL CONDUIT UNDER PAVEMENT
NOT TO SCALE



RIGID METAL CONDUIT – SURFACE
NOT TO SCALE

NOTE:
1. CONTRACTOR TO COORDINATE ALL FASTENERS AND SUPPORT METHODS FOR ALL SURFACE MOUNTED CONDUIT WITH CL&P.
2. EXPANSION FITTINGS SHALL BE INSTALLED IN THE CONDUIT MOUNTED TO THE SURFACE OF THE PEDESTRIAN BRIDGE AT ALL EXPANSION JOINTS.
3. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHOULD BE INSTALLED AT ALL ABUTMENT/PIER TO SUPERSTRUCTURE TRANSITION POINTS

SILVER / PETRUCELLI + ASSOCIATES
Architects and Engineers
3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucelli.com

CONSTRUCTION DRAWINGS

ELECTRICAL DETAILS

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1
MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
FEDERAL PROJECT NO. PED5(090)

MTD DESIGNED	MTD DRAWN	MRA CHECKED	2129-11 PROJECT NO.
SCALE AS SHOWN			EL-4
DATE JANUARY 5, 2012			SHEET NO. 26 OF 48

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MILONE & MACBROOM®
99 Realty Drive
Cheshire, Connecticut 06410
(203) 271-1773 Fax (203) 272-9733
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SEDIMENT & EROSION CONTROL SPECIFICATIONS

GENERAL:

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION, AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.

IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATERBODIES, AND TO PREVENT, INSOFAR AS POSSIBLE, EROSION ON THE SITE.

LAND GRADING

GENERAL:

1. THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:

   a. THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).

   b. THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).

   c. THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).

   d. PROVISION SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.

   e. EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTLING, OR CRACKING.

   f. NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSES, OR WATERBODIES.

   g. PRIOR TO ANY REGRADING, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.

TOPSOILING

GENERAL:

1. TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH, AND MAINTENANCE OF VEGETATION.
2. UPON ATTAINING FINAL SUBGRADES, SCARIFY SURFACE TO PROVIDE A GOOD BOND WITH TOPSOIL. SCARIFY ALL TREE AND SHRUB PLANTING AREAS COMPACTED BY CONSTRUCTION ACTIVITIES TO A DEPTH OF 8 INCHES MINIMUM. THERE SHALL BE NO SEPARATE PAYMENT FOR SCARIFICATION.
3. REMOVE ALL STONES LARGER THAN 3/4 INCHES IN DIAMETER, TREE LIMBS, ROOTS AND CONSTRUCTION DEBRIS.
4. APPLY LIME ACCORDING TO SOIL TEST OR AT THE RATE OF TWO (2) TONS PER ACRE.

MATERIAL:

1. TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.
2. TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.
3. TOPSOIL SHOULD BE RELATIVELY FREE OF SUBSOIL MATERIAL AND MUST BE FREE OF LARGE STONES , LUMPS OF SOIL, ROOTS, TREE LIMBS, TRASH, OR CONSTRUCTION DEBRIS. IT SHOULD BE FREE OF ROOTS OR RHIZOMES SUCH AS THISTLE, NUTGRASS, AND QUACKGRASS.
4. AN ORGANIC MATTER CONTENT OF SIX PERCENT (6%) MIN. AND TWENTY PERCENT 20%) MAX. IS REQUIRED. AVOID LIGHT COLORED SUBSOIL MATERIAL.
5. SOLUBLE SALT CONTENT OF OVER 500 PARTS PER MILLION (PPM) IS UNSUITABLE. AVOID TIDAL MARSH SOILS BECAUSE OF HIGH SALT CONTENT AND SULFUR ACIDITY.
6. THE pH SHOULD BE NOT LESS THEN 5.5 AND NO MORE THAN 7.0.. IF LESS, ADD LIME TO INCREASE pH TO AN ACCEPTABLE LEVEL.

APPLICATION:

1. AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
2. SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST SIX INCHES (6"), OR TO THE DEPTH SHOWN ON THE LANDSCAPING PLANS.

TURF ESTABLISHMENT – TEMPORARY VEGETATIVE COVER

GENERAL:

1. TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL UNPROTECTED AREAS THAT PRODUCE SEDIMENT, AREAS WHERE FINAL GRADING HAS BEEN COMPLETED, AND AREAS WHERE THE ESTIMATED PERIOD OF BARE SOIL EXPOSURE IS LESS THAN 12 MONTHS. TEMPORARY VEGETATIVE COVER SHALL BE APPLIED IF AREAS WILL NOT BE PERMANENTLY SEEDED BY SEPTEMBER 1.

SITE PREPARATION:

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. APPLY LIME ACCORDING TO SOIL TEST OR AT A RATE OF ONE (1) TON OF GROUND DOLOMITIC LIMESTONE PER ACRE (5 LBS. PER 100 SQ. FT.).
4. APPLY FERTILIZER ACCORDING TO SOIL TEST OR AT THE RATE OF 300 LBS. OF 10–10–10 PER ACRE (7 LBS. PER 1,000 SQ. FT.) AND SECOND APPLICATION OF 200 LBS. OF 10–10–10– (5 LBS. PER 1,000 SQ. FT.) WHEN GRASS IS FOUR INCHES (4") TO SIX INCHES (6") HIGH. APPLY ONLY WHEN GRASS IS DRY.
5. UNLESS HYDROSEEDED, WORK IN LIME AND FERTILIZER TO A DEPTH OF FOUR (4") INCHES USING A DISK OR ANY SUITABLE EQUIPMENT.
6. TILLAGE SHOULD ACHIEVE A REASONABLY UNIFORM LOOSE SEEDBED. WORK ON CONTOUR IF SITE IS SLOPING.

ESTABLISHMENT:

1. SELECT APPROPRIATE SPECIES FOR THE SITUATION. NOTE RATES AND SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
2. APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
3. UNLESS HYDROSEEDED, COVER RYEGRASS SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL USING SUITABLE EQUIPMENT.
4. MULCH IMMEDIATELY AFTER SEEDING IF REQUIRED. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW.) APPLY STRAW OR HAY MULCH AND ANCHOR TO SLOPES GREATER THAN 3% OR WHERE NEEDED.

TURF ESTABLISHMENT – PERMANENT VEGETATIVE COVER

GENERAL:

1. PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL, REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF, AND TO ENHANCE THE AESTHETIC NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED.

SITE PREPARATION:

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
4. APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.
5. APPLY FERTILIZER ACCORDING TO SOIL TEST OR:
   - SPRING SEEDING: WORK DEEPLY IN SOIL, BEFORE SEEDING, 300 LBS. OF 10–10–10 FERTILIZER PER ACRE (7 LBS. PER 1,000 SQ. FT.); THEN SIX (6) TO EIGHT (8) WEEKS LATER, APPLY ON THE SURFACE AN ADDITIONAL 300 LBS. OF 10–10–10 FERTILIZER PER ACRE. AFTER MAY 1, PERMANENT VEGETATIVE COVER SHALL BE APPLIED.
   - FALL SEEDING: WORK DEEPLY IN SOIL, BEFORE SEEDING, 600 LBS. OF 10–10–10 FERTILIZER PER ACRE (14 LBS. PER 1,000 SQ. FT.).
6. IN ADDITION TO THE ABOVE ITEMS THE CONTRACTOR SHALL ALSO PERFORM THE FOLLOWING TASKS WHEN TRANSITIONING FROM TEMPORARY SEEDING AREAS TO PERMANENT SEEDING AREAS:
   - ONE WEEK PRIOR TO TRANSITION SPRAY ALL WEEDS WITH APPROVED HERBICIDE.
   - THE FOLLOWING WEEK MOW ANY REMAINING TEMPORARY VEGETATIVE COVER TO 1 INCH HIGH MAXIMUM.
   - SCARIFY THE SEEDING AREA TO A DEPTH OF 3 INCHES
   - ADD SPECIFIED TOPSOIL TO ACHIEVE FINISHED GRADE.
   - APPLY SEED PER TURF ESTABLISHMENT SPECIFICATIONS.

VEGETATIVE COVER SELECTION & MULCHING

TEMPORARY VEGETATIVE COVER:

PERENNIAL RYEGRASS 5 LBS./1,000 SQ.FT.
(LOLIUM PERENNE)

* PERMANENT VEGETATIVE COVER:

25%	ABBEY KENTUCKY BLUEGRASS	POA PRATENSIS
15%	ENVICTA KENTUCKY BLUEGRASS	POA PRATENSIS
25%	PENNLAWN RED FESCUE	FESTUCA RUBRA
15%	AMBROSE CHEWING FESCUE	FESTUCA RUBRA
20%	MANHATTAN RYEGRASS	LOLIUM PERENNE

OR APPROVED EQUAL.

SPRING SEEDING: 3/15 to 6/15

FALL SEEDING: 8/15 to 10/15

TEMPORARY MULCHING:

STRAY OR HAY 70–90 LBS./1,000 SQ.FT.
(TEMPORARY VEGETATIVE AREAS)

WOOD FIBER IN HYDROMULCH SLURRY 25–50 LBS./1,000 SQ. FT.

ESTABLISHMENT:

1. SMOOTH AND FIRM SEEDBED WITH CULTIPACKER OR OTHER SIMILAR EQUIPMENT PRIOR TO SEEDING (EXCEPT WHEN HYDROSEEDING).
2. SELECT ADAPTED SEED MIXTURE FOR THE SPECIFIC SITUATION. NOTE RATES AND THE SEEDING DATES.
3. APPLY SEED UNIFORMLY ACCORDING TO RATE INDICATED, BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
4. COVER GRASS AND LEGUME SEED WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).
5. MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO TEMPORARY MULCHING SPECIFICATIONS. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION).
6. USE PROPER INOCULANT ON ALL LEGUME SEEDINGS, USE FOUR (4) TIMES NORMAL RATES WHEN HYDROSEEDING.
7. USE SOD WHERE THERE IS A HEAVY CONCENTRATION OF WATER AND IN CRITICAL AREAS WHERE IT IS IMPORTANT TO GET A QUICK VEGETATIVE COVER TO PREVENT EROSION.

MAINTENANCE:

1. TEST FOR SOIL ACIDITY EVERY THREE (3) YEARS AND LIME AS REQUIRED.
2. ON SITES WHERE GRASSES PREDOMINATE, BROADCAST ANNUALLY 500 POUNDS OF 10–10–10 FERTILIZER PER ACRE (12 LBS. PER 1,000 SQ. FT.) OR AS NEEDED ACCORDING TO ANNUAL SOIL TESTS.
3. ON SITES WHERE LEGUMES PREDOMINATE, BROADCAST EVERY THREE (3) YEARS OR AS INDICATED BY SOIL TEST 300 POUNDS OF 0–20–20 OR EQUIVALENT PER ACRE (8 LBS PER 1,000 SQ. FT.).

EROSION CHECKS

GENERAL:

1. TEMPORARY PERVIOUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND OR GEOTEXTILE FABRIC FASTENED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

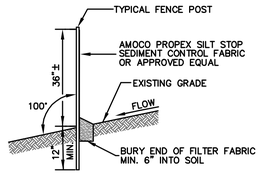
CONSTRUCTION:

1. BALES SHOULD BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR (4") INCHES.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES OR REINFORCEMENT BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
4. GEOTEXTILE FABRIC SHALL BE SECURELY ANCHORED AT THE TOP OF A THREE FOOT (3') HIGH FENCE AND BURIED A MINIMUM OF FOUR INCHES (4") TO THE SOIL. SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF TWO FEET (2').

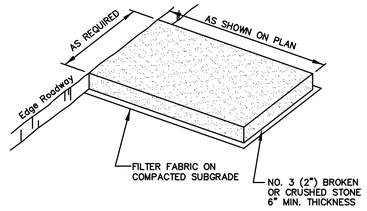
INSTALLATION AND MAINTENANCE:

1. BALED HAY EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
2. BALED HAY EROSION BARRIERS AND GEOTEXTILE FENCE SHALL BE INSTALLED AT THE LOCATION INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DEEMED APPROPRIATE DURING CONSTRUCTION.
3. ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
4. INSPECTION SHALL BE FREQUENT (AT MINIMUM MONTHLY AND BEFORE AND AFTER HEAVY RAIN) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.

NOTE:
REFER TO SHEET LA–1 FOR ADDITIONAL LANDSCAPING NOTES.

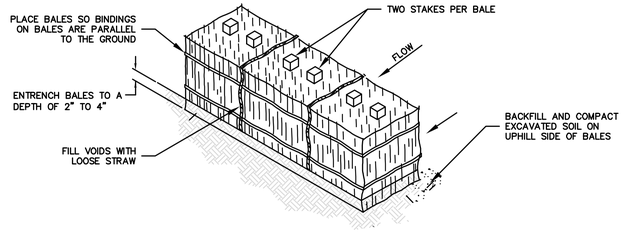


SEDIMENT FILTER FENCE (GSF)
NOT TO SCALE



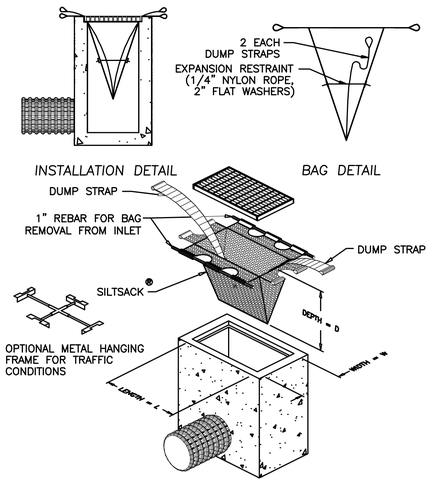
NOTE: CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AND MAINTAINED DURING OPERATIONS WHICH PROMOTE VEHICULAR TRACKING OF MUD

CONSTRUCTION ENTRANCE (ANTI–TRACKING PAD) (CE)
NOT TO SCALE

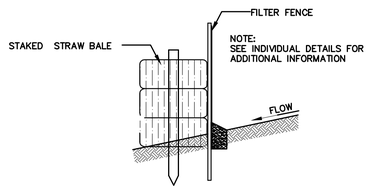


1. IDEALLY, BALES SHOULD BE ENTRENCHED 2 TO 4 INCHES AND TIGHTLY BUTTED TOGETHER. BALES CAN BE SUCCESSFULLY PLACED WITHOUT A TRENCH IF GOOD GROUND CONTACT IS MADE. REMOVE HEAVY BRUSH AND FILL ALL VOIDS WITH LOOSE STRAW.
2. BALES SHALL BE ONLY USED AS A TEMPORARY BARRIER AND FOR NO LONGER THAN 60 DAYS.
3. WHEN SEDIMENTATION DEPOSITS REACH WITHIN 3" OF THE TOP OF BALES, REMOVE SEDIMENTATION OR ADD ADDITIONAL BALES ON SEDIMENTATION DIRECTLY BEHIND FIRST ROW OF BALES AS DIRECTED BY THE ENGINEER.
4. UPON ESTABLISHMENT OF GROUND COVER ON DISTURBED AREAS AND WHEN DIRECTED BY THE ENGINEER, HAY BALES WILL BE REMOVED AND USED AS MULCH. ANY SEDIMENTATION WILL BE THINLY SPREAD UPON ESTABLISHED GROUND COVER.

HAYBALE BARRIER PROTECTION (HB)
NOT TO SCALE



INLET PROTECTION DETAIL – SILTSACK (IP)
NOT TO SCALE



SEDIMENT FILTER FENCE AND HAYBALE
NOT TO SCALE

CONSTRUCTION DRAWINGS

SEDIMENT AND EROSION CONTROL NOTES & DETAILS

NAUGATUCK PEDESTRIAN GREENWAY
PHASE 1
MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87–143
FEDERAL PROJECT NO. PEDS(090)

MTD	MTD	VCM
DESIGNED	DRAWN	CHECKED

SCALE AS SHOWN

DATE JANUARY 5, 2012

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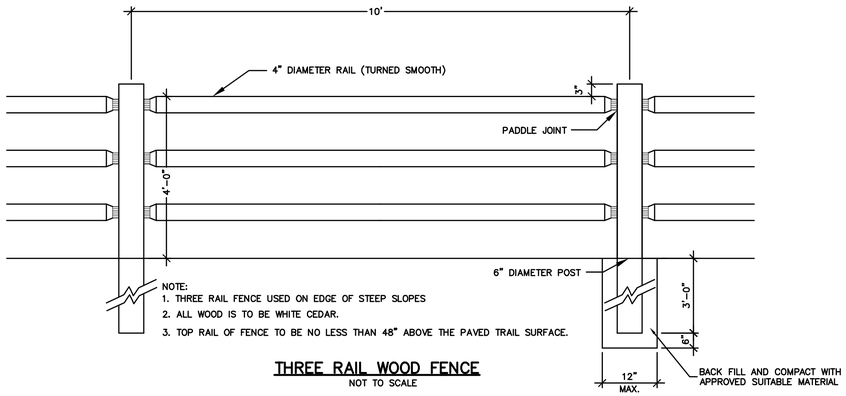
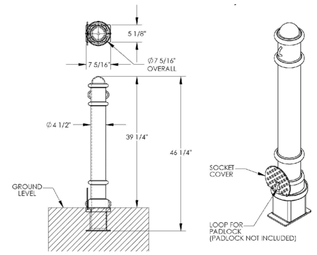
2129-11
PROJECT NO.

SD-1
SHEET NO. 27 OF 48



NOTE:
1. THREE RAIL FENCE USED ON EDGE OF STEEP SLOPES
2. ALL WOOD IS TO BE WHITE CEDAR.
3. TOP RAIL OF FENCE TO BE NO LESS THAN 48" ABOVE THE PAVED TRAIL SURFACE.

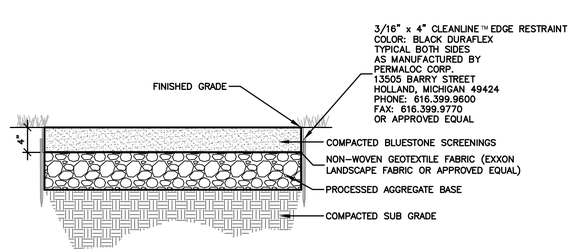
THREE RAIL WOOD FENCE
NOT TO SCALE



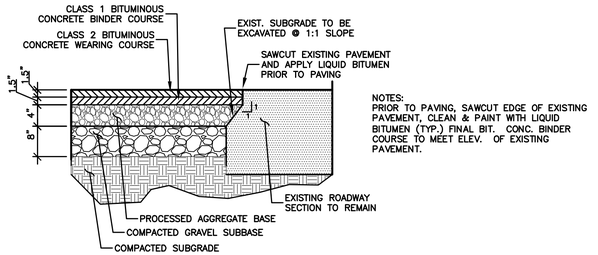
NOTES:
INSTALL PER MANUFACTURER SPECIFICATIONS
MODEL NUMBER: BOL-OR-40-BK
BOLLARD DIAMETER: 4-1/2"
COLOR: BLACK
SOCKET COLOR: GALVANIZED
AS MANUFACTURED BY:
VESTIL MANUFACTURING CORP.
2999 NORTH WAYNE STREET
P.O. BOX 507
ANGOLA, IN 46703
PHONE: 260-665-7586
TOLL FREE: 800-348-0868
FAX: 260-665-1339

OR APPROVED EQUAL

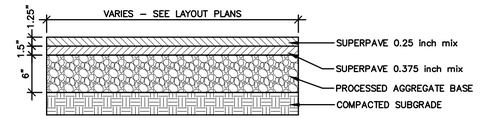
REMOVABLE ORNAMENTAL STEEL BOLLARD
NOT TO SCALE



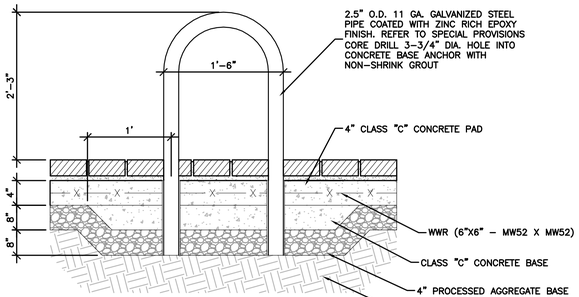
STONEDUST WALK – ADD ALTERNATE NO.1
NOT TO SCALE



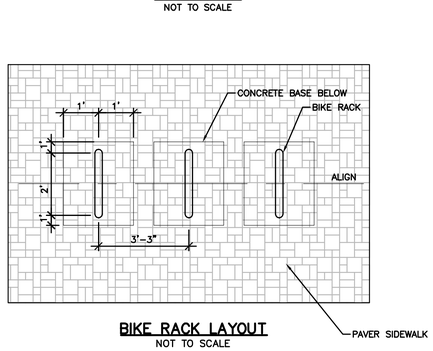
PERMANENT PAVEMENT REPAIR – LOCAL ROADS
NOT TO SCALE



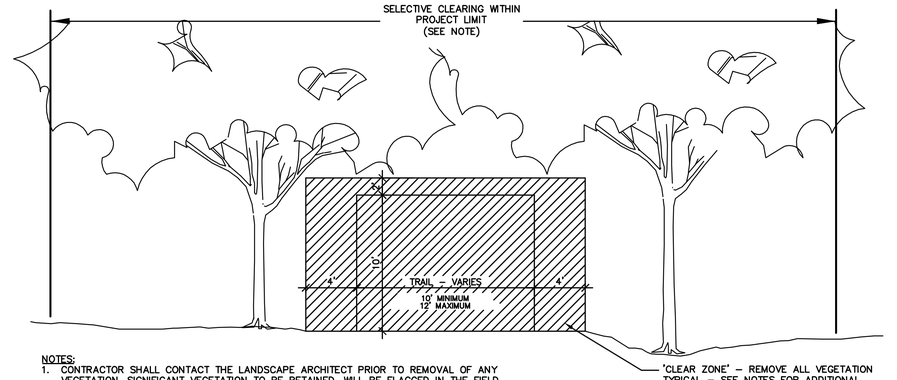
BITUMINOUS CONCRETE TRAIL
NOT TO SCALE



BIKE RACK
NOT TO SCALE

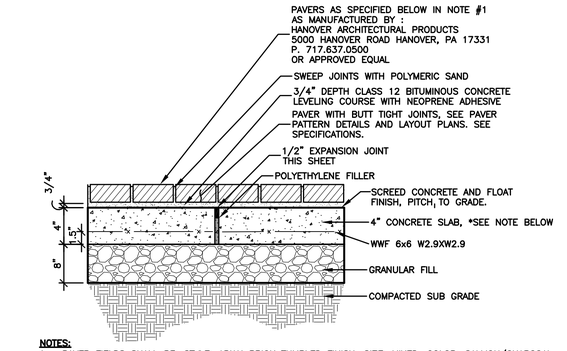


BIKE RACK LAYOUT
NOT TO SCALE



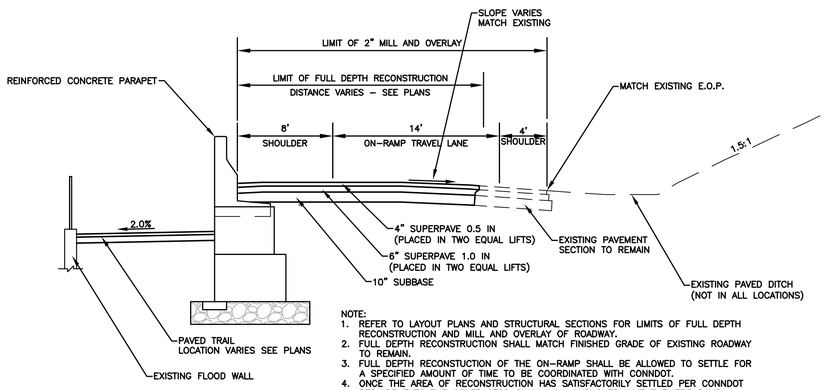
NOTES:
1. CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT PRIOR TO REMOVAL OF ANY VEGETATION. SIGNIFICANT VEGETATION TO BE RETAINED, WILL BE FLAGGED IN THE FIELD UNDER THE DIRECTION OF THE LANDSCAPE ARCHITECT.
2. NO NEW PLANTINGS ARE TO OCCUR WITHIN THE ESTABLISHED 'CLEAR ZONE' – SEE LANDSCAPE PLAN FOR MORE INFORMATION.
3. CONTRACTOR IS RESPONSIBLE FOR LIMBING UP OVERHANGING VEGETATION TO THE HEIGHT INDICATED ON THE DETAIL

CLEARING LIMITS DETAIL
NOT TO SCALE



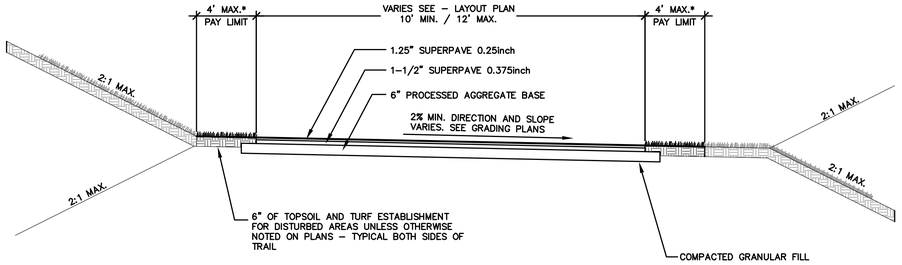
NOTES:
1. PAVER FIELDS SHALL BE: STYLE: APIAN BRICK TUMBLED FINISH, SIZE: MIXED, COLOR: SALMON/CHARCOAL BLEND, PATTERN: RANDOM.
   PAVER BANDING TO BE: STYLE: HALIFAX FLAGSTONE, SIZE: 12"x12" & 8"x12", COLOR: SOUTH MOUNTAIN SAND, PATTERN: SOLDIER COURSE
2. EXP. JOINTS 20'± O.C. MAX. SEE CONSTRUCTION LAYOUT PLANS. CONCRETE BASE SHALL BE SCREEDED WITH A FLOAT FINISH AND PITCHED TO GRADE
3. 3/4" CLASS 12 BIT. SETTING BED SHALL BE SCREEDED TO PROPER ELEVATIONS
4. CONTRACTOR SHALL CONSTRUCT A 5'X5' PAVER SAMPLE PATTERN FOR APPROVAL BY THE LANDSCAPE ARCHITECT AND BOROUGH OF NAUGATUCK ENGINEER.

UNIT PAVER SIDEWALK
NOT TO SCALE



NOTE:
1. REFER TO LAYOUT PLANS AND STRUCTURAL SECTIONS FOR LIMITS OF FULL DEPTH RECONSTRUCTION AND MILL AND OVERLAY OF ROADWAY.
2. FULL DEPTH RECONSTRUCTION SHALL MATCH FINISHED GRADE OF EXISTING ROADWAY TO REMAIN.
3. FULL DEPTH RECONSTUCTION OF THE ON-RAMP SHALL BE ALLOWED TO SETTLE FOR A SPECIFIED AMOUNT OF TIME TO BE COORDINATED WITH CONNDOT.
4. ONCE THE AREA OF RECONSTRUCTION HAS SATISFACTORILY SETTLED PER CONNDOT REQUIREMENTS THE CONTRACTOR SHALL MILL AND OVERLAY THE ENITRE RAMP SECTION TO A DEPTH OF 2 INCHES AS SHOWN ON THE PLANS.

TYPICAL ROADWAY SECTION – ROUTE 8 ON-RAMP
NOT TO SCALE



NOTES:
1. *THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF ALL DISTURBED AREAS INCLUDING THE NEED FOR TURF ESTABLISHMENT, WHICH MAY BE OUTSIDE THE HORIZONTAL PAY LIMITS SHOWN, AT NO ADDITIONAL COST TO THE BOROUGH OR STATE.
2. DIRECTION OF CROSS SLOPE FOR THE TRAIL VARIES.
3. ON SIDE HILL SLOPES, THE DOWNHILL EDGE OF THE PATH SHALL BE APPROXIMATELY AT GRADE.
4. PROFILE OF PATH SHALL NOT HAVE ANY ABRUPT CHANGES IN GRADE.
5. GRADING SHALL BE DONE SO AS TO NOT POCKET WATER ON THE UPHILL SIDE OF THE PATH UNLESS SPECIFICALLY SHOWN ON PLANS. IF NECESSARY, FILL SHALL BE PLACED SO AS TO PROVIDE POSITIVE DRAINAGE ACROSS PATH.
6. THE CONTRACTOR SHALL REFRAIN FROM PLACING HEAVY EQUIPMENT ON THE SURFACE COURSE OF PAVEMENT ONCE INSTALLED. COORDINATE CONSTRUCTION OPERATIONS ACCORDINGLY.

TYPICAL TRAIL CROSS SECTION
NOT TO SCALE

CONSTRUCTION DRAWINGS

SITE DETAILS

NAUGATUCK PEDESTRIAN GREENWAY
PHASE 1
MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
FEDERAL PROJECT NO. PEDS(090)

MTD DESIGNED	MTD DRAWN	VCM CHECKED
SCALE AS SHOWN		
DATE JANUARY 5, 2012		

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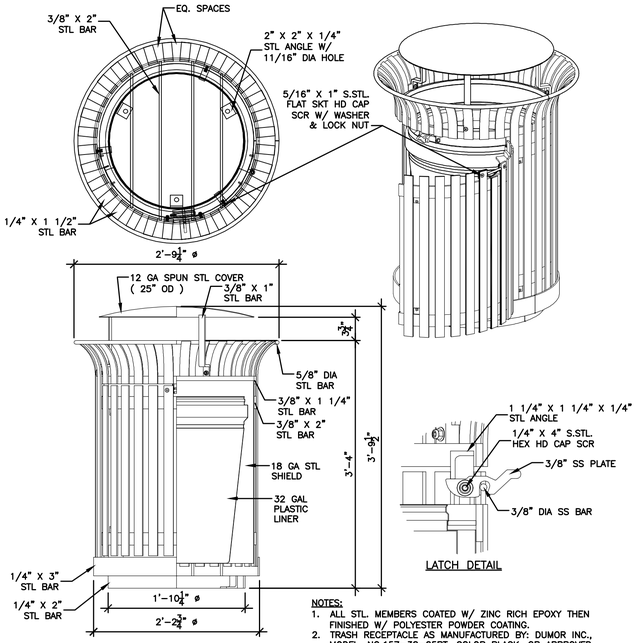
PROJECT NO. 2129-11

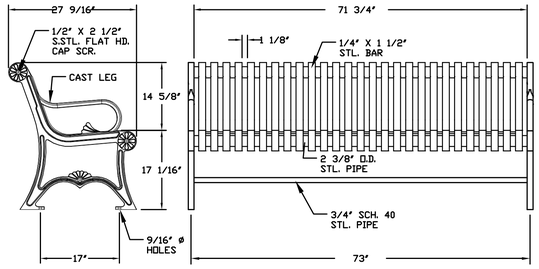
SD-2

SHEET NO. 28 OF 48

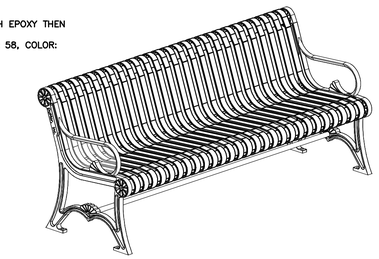


NOTES:
1. ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2. TRASH RECEPTACLE AS MANUFACTURED BY: DUMOR INC., MODEL: NO.157-32-25BT, COLOR BLACK, OR APPROVED EQUAL.
3. CONTRACTOR TO SUBMIT SHOP DRAWINGS

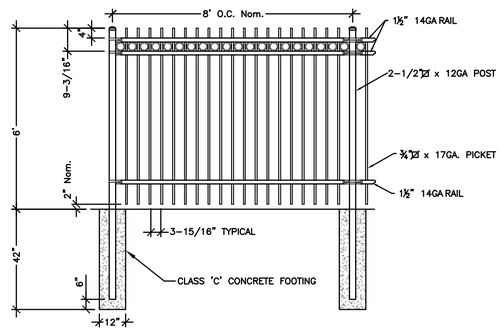
TRASH RECEPTACLE
NOT TO SCALE



NOTES:
1. 1. ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2. AS MANUFACTURED BY: DUMOR INC., MODEL: 58, COLOR: BLACK, OR APPROVED EQUAL.
3. CONTRACTOR TO SUBMIT SHOP DRAWINGS

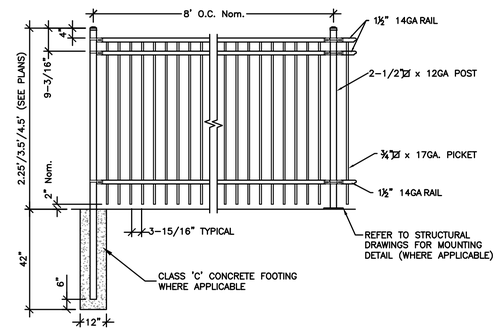


SITE BENCH
NOT TO SCALE



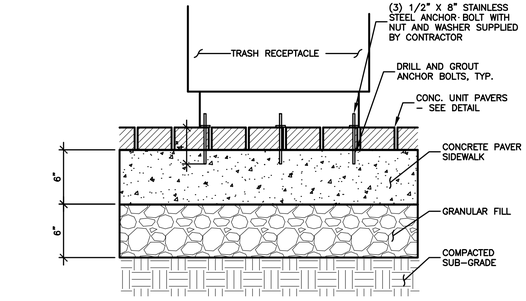
ORNAMENTAL METAL FENCE – (6' HIGH)
NOT TO SCALE

NOTES:
1. FOOTING TO BE PAID FOR UNDER ITEM "ORNAMENTAL METAL FENCE (6' HIGH)", NO SEPARATE PAYMENT.
2. COMMERCIAL GRADE ORNAMENTAL STEEL FENCE
   STYLE: 3 RAIL WITH DECORATIVE RINGS
   HEIGHT: 6'-0"
   COLOR: BLACK
3. CONTRACTOR TO SUBMIT DETAILED SHOP DRAWINGS.

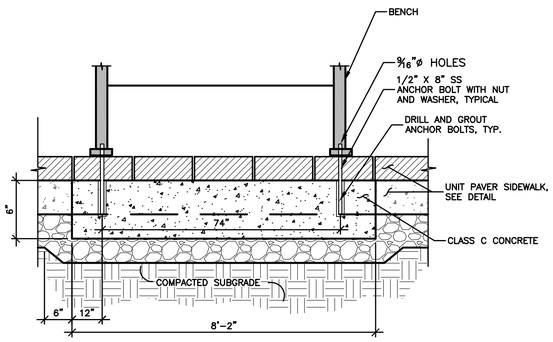


ORNAMENTAL METAL FENCE – (2.25', 3.5', 4.5' HIGH)
NOT TO SCALE

NOTES:
1. ORNAMENTAL METAL FENCE TO BE SURFACE MOUNTED TO TOP OF PROPOSED AND EXISTING WALLS (UNLESS SHOWN OTHERWISE). WHERE APPLICABLE, CONCRETE FOOTINGS SHALL BE PAID FOR UNDER THE APPROPRIATE FENCE TYPE (ORNAMENTAL METAL FENCE (x' HIGH)), NO SEPARATE PAYMENT. REFER TO LAYOUT AND STRUCTURAL PLANS FOR MORE INFORMATION.
2. WHERE ORNAMENTAL METAL FENCE (2.25' HIGH) IS SPECIFIED FOR THE EXISTING PEDESTRIAN BRIDGE, ALL DIMENSIONS SHALL BE AS NOTED ABOVE, EXCEPT THE HEIGHT, WHICH SHALL BE 2.25', PER ASSOCIATED PEDESTRIAN BRIDGE DETAILS.
3. COMMERCIAL GRADE ORNAMENTAL STEEL FENCE
   STYLE: 3 RAIL
   HEIGHT: VARIES SEE LAYOUT PLANS
   COLOR: BLACK
4. CONTRACTOR TO SUBMIT DETAILED SHOP DRAWINGS.

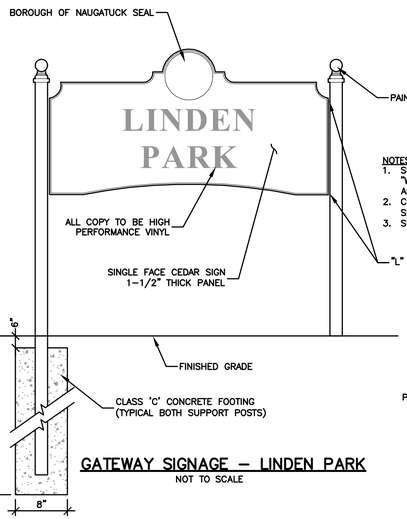


TRASH RECEPTACLE MOUNTING ON PAVERS
NOT TO SCALE



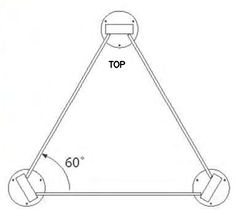
NOTE:
1. ½" x 8" STAINLESS STEEL ANCHOR BOLTS & NUTS PROVIDED BY CONTRACTOR.

SITE BENCH MOUNTING ON PAVERS
NOT TO SCALE

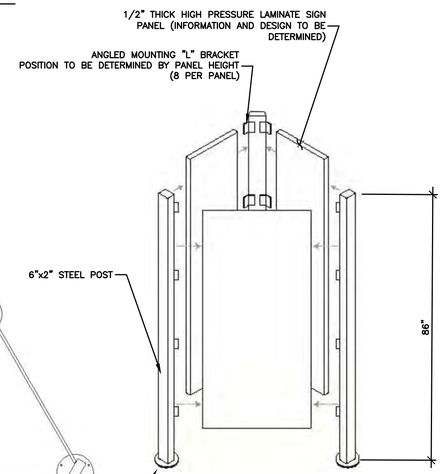


NOTES:
1. SIGN TO MATCH EXISTING TYPE, SIZE, COLOR AND STYLE OF "WELCOME TO NAUGATUCK" SIGN AT CORNER OF MAPLE STREET AND ROUTE 8 OFF-RAMP.
2. CONCRETE FOOTING TO BE PAID FOR UNDER ITEM "GATEWAY SIGN", NO SEPARATE PAYMENT.
3. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL

GATEWAY SIGNAGE – LINDEN PARK
NOT TO SCALE

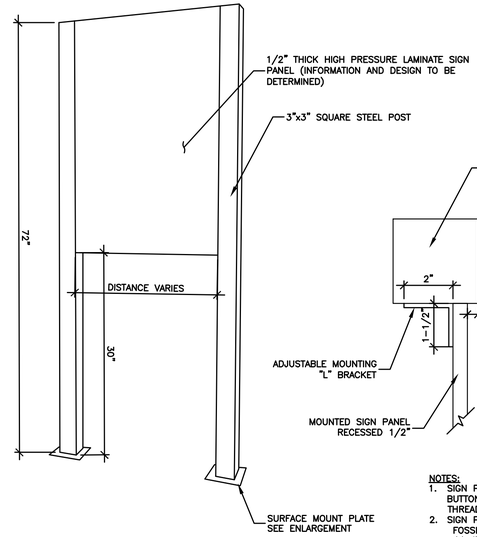


INFORMATION KIOSK
NOT TO SCALE



NOTES:
1. SIGN PANELS TO BE MOUNTED WITH STAINLESS STEEL BUTTON-HEAD ANTI-VANDAL SCREWS, 1/2"(L)x1/4"- 20 THREAD
2. SIGN PANEL AND POSTS AS MANUFACTURED/SUPPLIED BY:
   FOSSIL INDUSTRIES INC.
   44 JEFRYN BOULEVARD
   DEER PARK, NY 11729
   p: 631.254.9200
   f: 631.254.4172

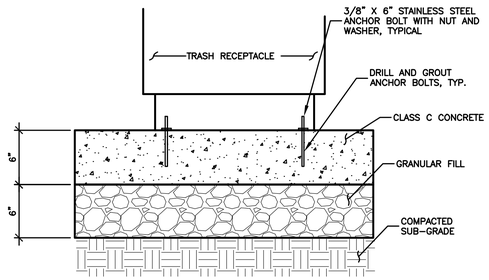
   OR APPROVED EQUAL
3. KIOSK TO BE SET ON CONCRETE PAD. SIZE WILL BE DEPENDANT ON SIGN PANEL DESIGN. COST OF CONCRETE PAD TO BE PAID FOR UNDER ITEM "INFORMATION KIOSK", NO SEPARATE PAYMENT.
4. PANEL SIZE AND DESIGN TO BE DETERMINED.
5. ALL SUPPORT POST MOUNTING PLATES TO HAVE BASE COVER TO HIDE MOUNTING HARDWARE.
6. ALL SUPPORTS AND HARDWARE TO BE COLOR: BLACK
7. CONCRETE FOUNDATION IN ACCORDANCE WITH SIGN MANUFACTURERS RECOMMENDATIONS. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL.



NOTES:
1. SIGN PANEL TO BE MOUNTED WITH STAINLESS STEEL BUTTON-HEAD ANTI-VANDAL SCREWS, 1/2"(L)x1/4"- 20 THREAD
2. SIGN PANEL AND POSTS AS MANUFACTURED/SUPPLIED BY:
   FOSSIL INDUSTRIES INC.
   44 JEFRYN BOULEVARD
   DEER PARK, NY 11729
   p: 631.254.9200
   f: 631.254.4172

   OR APPROVED EQUAL
3. ALL SUPPORT POST MOUNTING PLATES TO HAVE BASE COVER TO HIDE MOUNTING HARDWARE.
3. ALL SUPPORTS AND HARDWARE TO BE COLOR: BLACK
7. CONCRETE FOUNDATION IN ACCORDANCE WITH SIGN MANUFACTURERS RECOMMENDATIONS. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL.

INFORMATION SIGN
NOT TO SCALE



NOTE:
1. 3/8" x 6" STAINLESS STEEL ANCHOR BOLTS & NUTS PROVIDED BY CONTRACTOR.

TRASH RECEPTACLE ON CONCRETE BASE
NOT TO SCALE

CONSTRUCTION DRAWINGS

SITE DETAILS

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1
MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
FEDERAL PROJECT NO. PEDS(090)

MTD DESIGNED	MTD DRAWN	VCM CHECKED	2129-11 PROJECT NO.
SCALE AS SHOWN			SD-3
DATE JANUARY 5, 2012			SHEET NO. 29 OF 48

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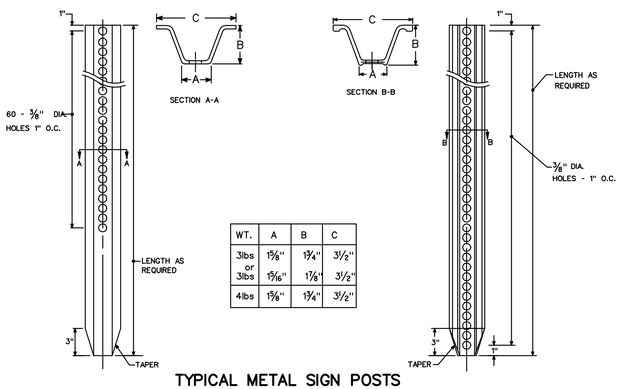
		Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ-R	Ⓔ-L	Ⓕ	Ⓖ	Ⓗ
SIGN NUMBER		31-0532 R1-1	R1-2	R9-6	51-1354 D11-1	41-4111R W1-4	41-4111L W1-4	M7-2	M4-11	M4-12
LEGEND		STOP	YIELD	YIELD TO PEDS	BIKE ROUTE				BEGIN	END
COLOR	BACKGROUND	RED	WHITE	WHITE	GREEN	YELLOW	YELLOW	GREEN	GREEN	GREEN
	COPY	WHITE	RED	BLACK	WHITE	BLACK	BLACK	WHITE	WHITE	WHITE
SIGN DIMENSION	WIDTH, IN	18"*	18"	12"	24"	18"	18"	12"	12"	12"
	HEIGHT, IN	18"*	18"	18"	18"	18"	18"	9"	4"	4"
MOUNTING		STEEL OR WOOD POST	WOOD POST	WOOD POST	WOOD POST	WOOD POST	WOOD POST	BELOW D11-1	BELOW D11-1	BELOW D11-1

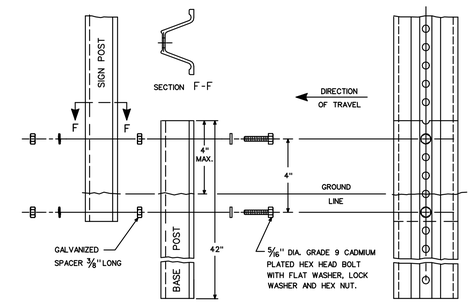
SIGNAGE AND PAVEMENT MARKING NOTES:

1. *-ALL STOP SIGNS TO BE 18"x18" UNLESS OTHERWISE NOTED ON SITE PLAN – LAYOUT AND LANDSCAPING PLAN.
2. PRIOR TO COMMENCING CONSTRUCTION THE CONTRACTOR SHALL INSTALL AND MAINTAIN SIGN Ⓐ AT THE INTERSECTION OF THE TRAIL AND ALL PUBLIC ROADS.
3. CONTRACTOR SHALL SUBMIT FOR REVIEW, A SCHEDULE OF SIGNS BY LOCATION (INTERSECTION) SHOWING SIGN TYPE, SIZE AND MOUNTING.
4. ALL SIGNS SHOWN TO BE PLACED WITHIN THE R.O.W. OF CITY STREETS SHALL BE PLACED UNDER THE DIRECTION OF THE ENGINEER AND THE DESIGNATED REPRESENTATIVE OF THE BOROUGH DEPT. OF TRAFFIC & PARKING. THESE SIGNS SHALL BE MOUNTED ON 2.4" DIA. GALVANIZED STEEL POST ('V-LOCK' SYSTEM) OR APPROVED EQUAL. 'V-LOCK' STYLE SIGN POSTS TO BE PAID FOR UNDER 'SIGN' ITEM.
5. BACKGROUND SHEETING SHALL BE TYPE III REFLECTIVE SHEETING EXCEPT STOP AND YIELD SIGNS WHICH SHALL BE BRIGHT WIDE ANGLE RETROREFLECTIVE SHEETING.
6. ALL SIGNS SHOWN TO BE PLACED ALONG TRAIL SHALL BE MOUNTED ON 4x4 PRESSURE TREATED WOOD POST, COST INCLUDED IN S.F. PRICE OF SIGN.
7. EXACT LOCATIONS OF SIGNS TO BE VERIFIED BY THE ENGINEER.
8. SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD SHEET 1208_01 "SIGN SUPPORT AND SIGN PLACEMENT DETAILS GORE EXIT SIGN" AND 1208_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS.
9. FINAL PAVEMENT MARKINGS TO BE EPOXY RESIN.
10. PAVEMENT MARKINGS SHALL BE INSTALLED THROUGHOUT THE PROJECT TO THE LIMITS OF PAVEMENT MARKINGS. MATCH TO EXISTING MARKINGS AT THE LIMITS OF PAVEMENT MARKINGS OR AS DIRECTED BY THE ENGINEER. PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD SHEET TR-1210_03 "SPECIAL DETAILS AND TYPICAL MARKINGS FOR TWO-WAY HIGHWAYS" UNLESS OTHERWISE NOTED ON THE PLANS.
11. ALL PROPOSED CROSSWALKS ACROSS TOWN ROADS WILL BE MAINTAINED BY THE BOROUGH OF NAUGATUCK.

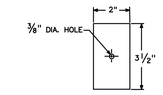


WT.	A	B	C
3lbs or 3lbs	1 5/16"	1 3/4"	3 1/2"
	1 5/16"	1 7/8"	3 1/2"
4lbs	1 5/16"	1 3/4"	3 1/2"

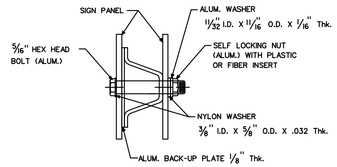
TYPICAL METAL SIGN POSTS



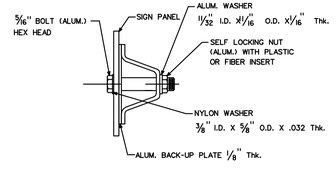
BREAKAWAY TYPE II INSTALLATION FOR 3 & 4LB POSTS



TYPICAL BACK-UP PLATE



TYPICAL BACK-TO-BACK SIGN PANEL ATTACHMENT



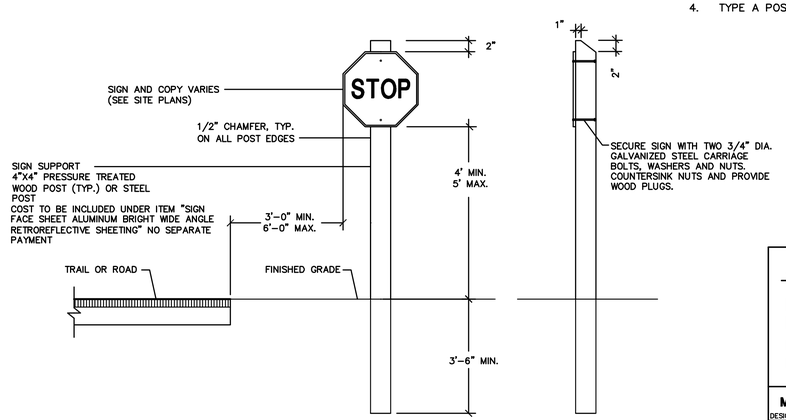
TYPICAL SIGN PANEL ATTACHMENT

STEEL SIGN POST DETAILS

NOT TO SCALE

STEEL SIGN POST NOTES:

1. STEEL FOR POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499-81 GRADE 60 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1-76 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT OF 91 LBS. OR GREATER PER LINEAR YARD. STEEL FOR DELINEATOR POSTS SHALL BE ASTM A36 STEEL.
2. AFTER FABRICATION, ALL STEEL POSTS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A 123.
3. ALL SIGN POSTS SHALL HAVE "BREAKAWAY" FEATURES THAT MEET AASHTO REQUIREMENTS CONTAINED IN "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS-1985." THE "BREAKAWAY" FEATURES SHALL BE STRUCTURALLY ADEQUATE TO CARRY THE SIGNS SHOWN IN THE PLANS AT 60 MPH WIND LOADINGS. INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
4. TYPE A POSTS – 3 LB/FT TYPE B POSTS – 4 LB/FT.



ELEVATION SIDE ELEVATION

TRAIL SIGN

NOT TO SCALE

SIGNAGE AND PAVEMENT MARKING DETAILS

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK

NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
FEDERAL PROJECT NO. PEDS(090)

MTD DESIGNED	MTD DRAWN	MRA CHECKED
SCALE AS SHOWN		
DATE JANUARY 5, 2012		

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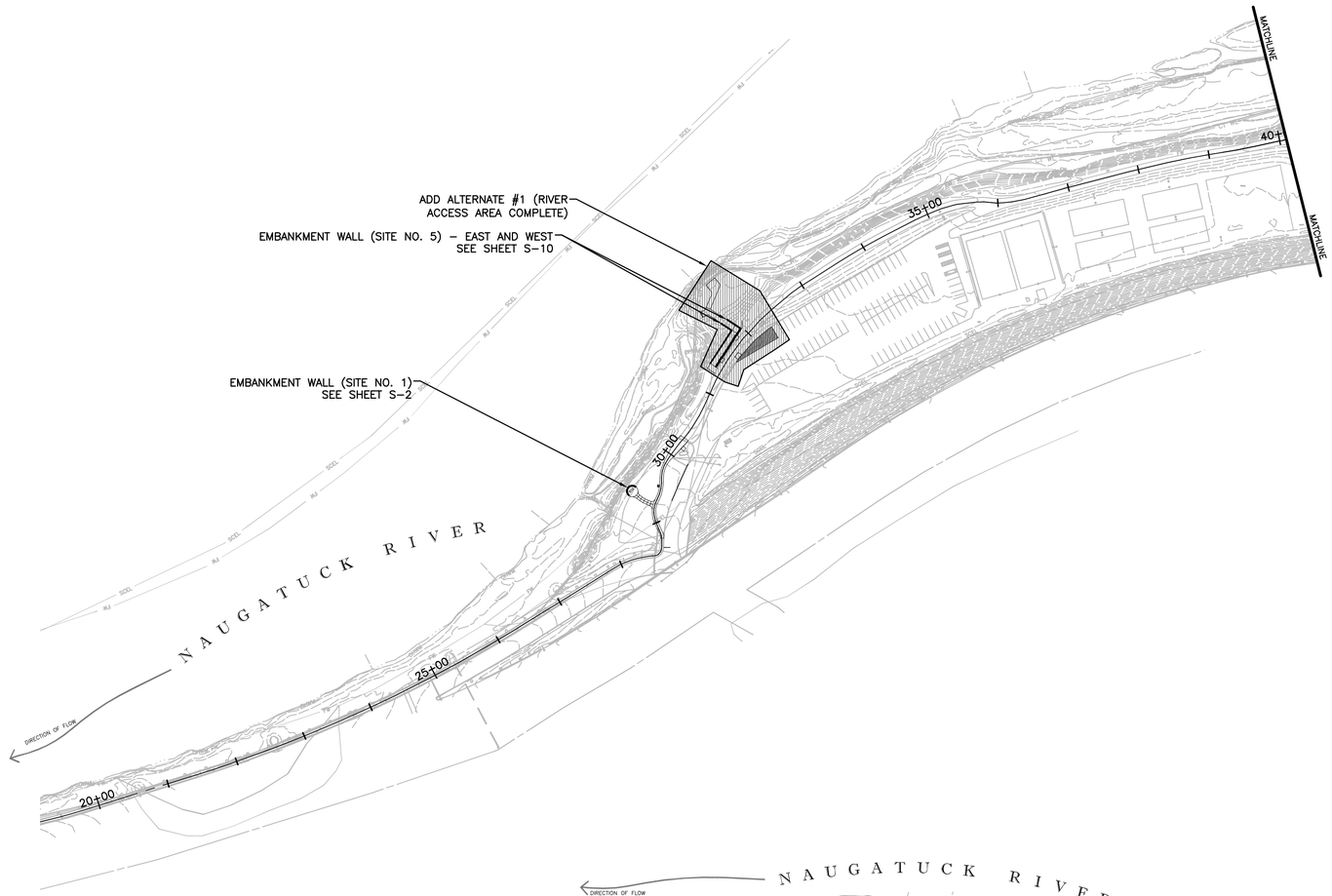
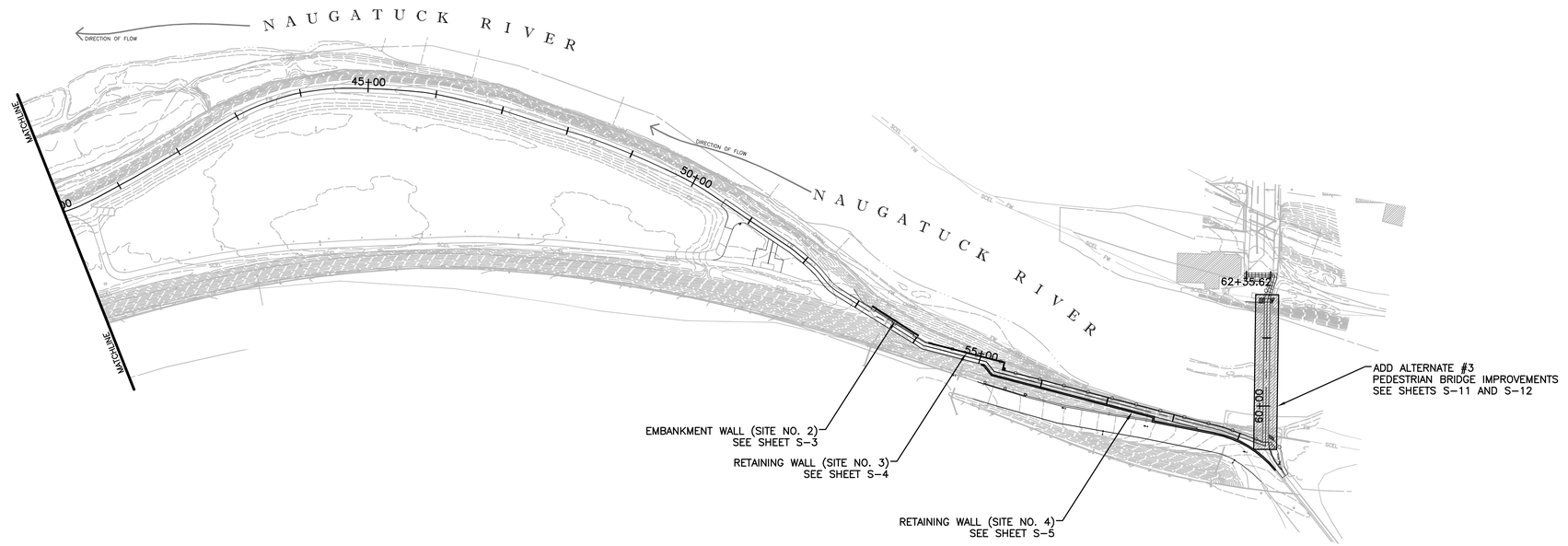
2129-11
MMI PROJECT NO.

SPM

SHEET NO. 30 OF 48





0 (1/2") 50' (1") 100' 200' 300'

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REVISIONS

STRUCTURAL INDEX PLAN

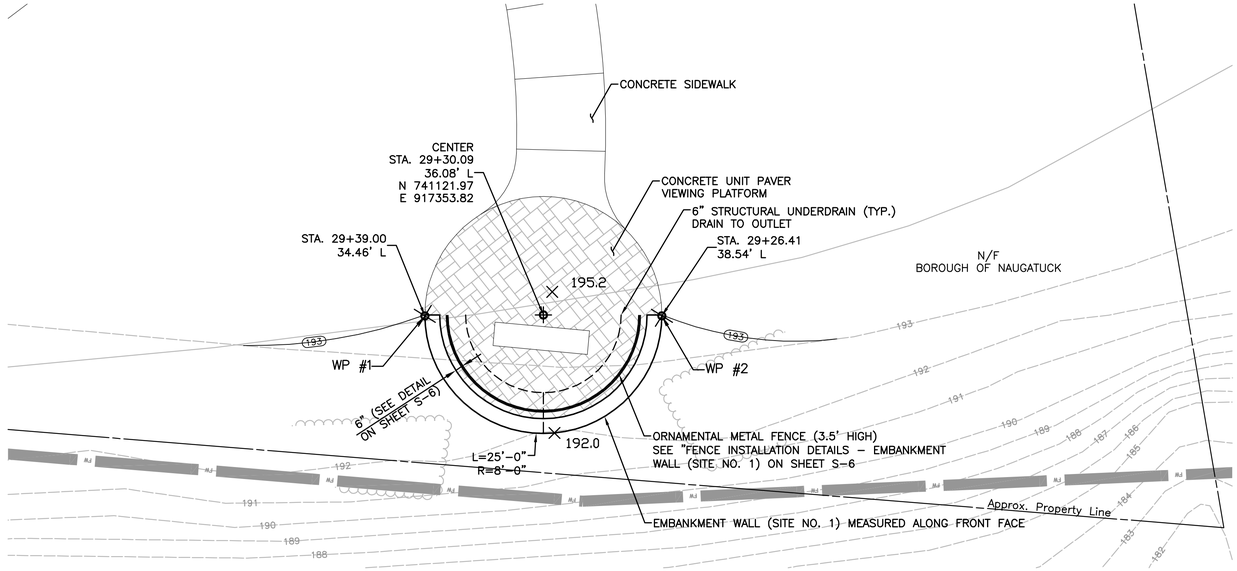
NAUGATUCK RIVER TRAIL
PHASE 1

MAPLE STREET TO BRIDGE STREET
NAUGATUCK, CONNECTICUT

FWW DESIGNED	FWW DRAWN	GDJ CHECKED
SCALE	1"=100'	
DATE	JANUARY 5, 2012	
PROJECT NO.	2129-11	
SHEET NO.	31 OF 48	

S-1

SHEET NO.



EMBANKMENT WALL (SITE NO. 1) – PLAN

SCALE: 1" = 5'-0"

TABLE OF COORDINATES		
WP#	N-COORDINATE	E-COORDINATE
1	741128.73	917349.54
2	741115.14	917357.99

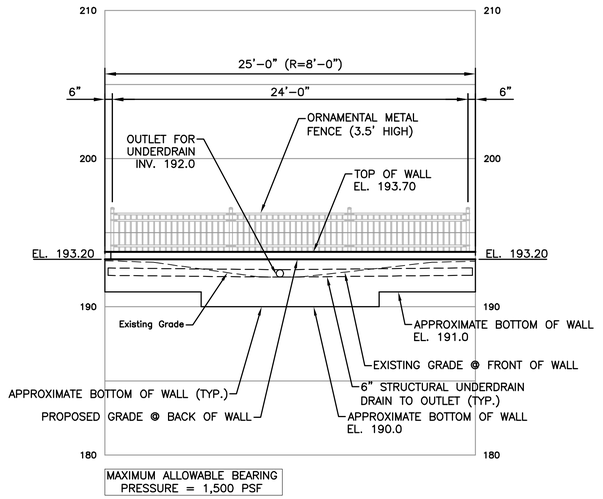
EMBANKMENT WALL (SITE NO. 1) QUANTITIES		
DESCRIPTION	UNITS	QUANTITY
EMBANKMENT WALL (SITE NO. 1)	L.S.	1
ORNAMENTAL METAL FENCE (3.5' HIGH)	L.F.	24

LEGEND

+ WP #1	WORKING POINT
192.0	PROPOSED ELEVATION

CONCRETE DISTRIBUTION		
Description	Unit	Quantity
Superstructure	C.Y.	–
Substructure	C.Y.	–
Footings	C.Y.	–
Total	C.Y.	0

INSPECTION OF FIELD WELDS		
METHOD	UNIT	QUANTITY
Ultrasonic	IN	0
Magnetic Particle	LF	0



EMBANKMENT WALL (SITE NO. 1) – ELEVATION

SCALE: 1" = 5'-0"

NOTES:

1. THE EMBANKMENT WALL SHALL BE DESIGNED, DETAILED AND CONSTRUCTED IN ACCORDANCE WITH THE SPECIAL PROVISION "EMBANKMENT WALL (SITE NO. 1)".
2. THE CONTRACTOR SHALL SELECT, DESIGN (FOR PROPRIETARY WALLS ONLY) AND CONSTRUCT ONE OF THE WALL OPTIONS AS LISTED IN THE SPECIAL PROVISION "EMBANKMENT WALL (SITE NO. 1)". ALL EMBANKMENT WALLS SHALL BE FROM THE SAME MANUFACTURER.
3. TEMPORARY EARTH RETAINING SYSTEM BELOW PAY LIMITS AND ANY TIEBACKS AND BRACING SHALL BE INCLUDED IN THE LUMP SUM COST OF THE WALL. DUE TO SOIL CONDITIONS, THE GEOTECHNICAL ENGINEER RECOMMENDS SOLDIER PILES AND LAGGING.
4. DETAILS SHOWN ARE NOT SPECIFIC. THE CONTRACTOR'S DESIGNER SHOULD MODIFY THE SECTION FOR EACH SPECIFIC SITE.
5. THE COLOR OF THE DRY CAST BLOCK SHALL BE COORDINATED AND APPROVED BY THE BOROUGH OF NAUGATUCK.
6. ANY ADDITIONAL PERVIOUS STRUCTURE BACKFILL REQUIRED OUTSIDE THIS LIMIT SHALL ALSO BE INCLUDED IN THE LUMP SUM PRICE.
7. FOR TYPICAL EMBANKMENT WALL SECTION, SEE SHEET S-6.
8. THE FOLLOWING IS A LIST OF THE PROPRIETARY EMBANKMENT RETAINING WALLS FOR THIS PROJECT:

VERSA-LOK RETAINING WALL
VERSA-LOK OF NEW ENGLAND
P.O. BOX 6002
NASHUA, NH 03063
(603) 883-3042

KEYSYSTEM I RETAINING WALL
KEYSTONE RETAINING WALL SYSTEMS
13453 COUNTY ROAD 1
FAIRHOPE, AL 36532
(251) 990-57612.

MESA RETAINING WALL SYSTEM
TENSAR EARTH TECHNOLOGY, INC.
227 RITTER ROAD
SEWICKLEY, PA 15143
(412) 749-9190

PYRAMID MODULAR BLOCKWALL
THE REINFORCED EARTH COMPANY
133 PARK STREET
NORTH READING, MA 01864
(978) 664-2830

REDI-ROCK RETAINING WALL-
COBBLESTONE FACE MOLD
REDI-ROCK WALLS-CT DIVISION
68A SOUTH CANAL STREET
PLAINVILLE, CT 06062
(860) 793-6805

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REVISIONS

STRUCTURAL PLANS - EMBANKMENT WALL (SITE NO. 1)
NAUGATUCK RIVER TRAIL
PHASE 1
MAPLE STREET TO BRIDGE STREET
NAUGATUCK, CONNECTICUT

FWW DESIGNED	FWW DRAWN	GDJ CHECKED

SCALE AS NOTED

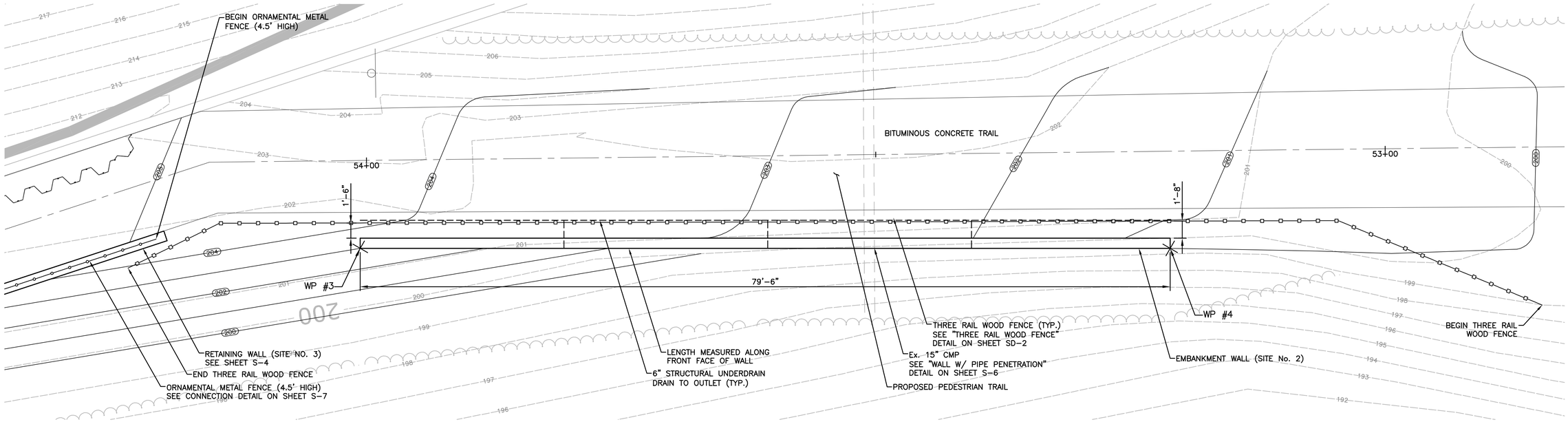
DATE JANUARY 5, 2012

PROJECT NO. 2129-11

SHEET NO. 32 OF 48

S-2

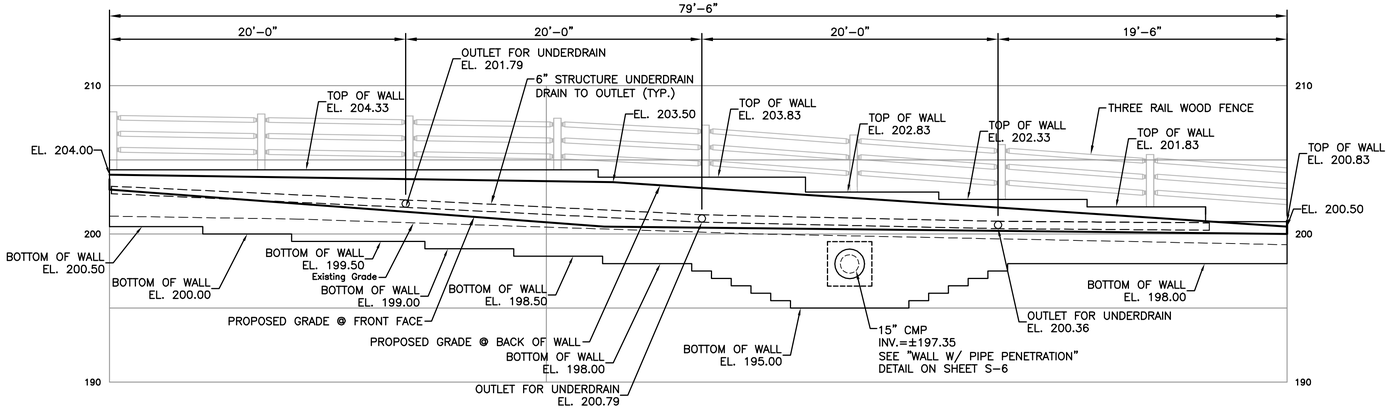
SHEET NO.



EMBANKMENT WALL (SITE NO. 2) – PLAN

SCALE: 1" = 5'-0"

TABLE OF COORDINATES		
WP#	N-COORDINATE	E-COORDINATE
3	743170.29	917938.17
4	743130.45	917869.37



MAXIMUM ALLOWABLE BEARING PRESSURE = 1,500 PSF

EMBANKMENT WALL (SITE NO. 2) – ELEVATION

SCALE: 1" = 5'-0"

EMBANKMENT WALL (SITE NO. 2) QUANTITIES		
DESCRIPTION	UNITS	QUANTITY
EMBANKMENT WALL (SITE NO. 2)	L.S.	1

LEGEND	
+ WP #1	WORKING POINT

CONCRETE DISTRIBUTION		
Description	Unit	Quantity
Superstructure	C.Y.	–
Substructure	C.Y.	–
Footings	C.Y.	–
Total	C.Y.	0

INSPECTION OF FIELD WELDS		
METHOD	UNIT	QUANTITY
Ultrasonic	IN	0
Magnetic Particle	LF	0

NOTES:

1. THE EMBANKMENT WALL SHALL BE DESIGNED, DETAILED AND CONSTRUCTED IN ACCORDANCE WITH THE SPECIAL PROVISION "EMBANKMENT WALL (SITE NO. 2)".
2. THE CONTRACTOR SHALL SELECT, DESIGN (FOR PROPRIETARY WALLS ONLY) AND CONSTRUCT ONE OF THE WALL OPTIONS AS LISTED IN THE SPECIAL PROVISION "EMBANKMENT WALL (SITE NO. 2)". ALL EMBANKMENT WALLS SHALL BE FROM THE SAME MANUFACTURER.
3. TEMPORARY EARTH RETAINING SYSTEM BELOW PAY LIMITS AND ANY TIEBACKS AND BRACING SHALL BE INCLUDED IN THE LUMP SUM COST OF THE WALL. DUE TO SOIL CONDITIONS, THE GEOTECHNICAL ENGINEER RECOMMENDS SOLDIER PILES AND LAGGING.
4. DETAILS SHOWN ARE NOT SPECIFIC. THE CONTRACTOR'S DESIGNER SHOULD MODIFY THE SECTION FOR EACH SPECIFIC SITE.
5. THE COLOR OF THE DRY CAST BLOCK SHALL BE COORDINATED AND APPROVED BY THE BOROUGH OF NAUGATUCK.
6. ANY ADDITIONAL PERVIOUS STRUCTURE BACKFILL REQUIRED OUTSIDE THIS LIMIT SHALL ALSO BE INCLUDED IN THE LUMP SUM PRICE.
7. FOR TYPICAL EMBANKMENT WALL SECTION, SEE SHEET S-6.
8. THE FOLLOWING IS A LIST OF THE PROPRIETARY EMBANKMENT RETAINING WALLS FOR THIS PROJECT:

VERSA-LOK RETAINING WALL
VERSA-LOK OF NEW ENGLAND
P.O. BOX 6002
NASHUA, NH 03063
(603) 883-3042

KEYSYSTEM I RETAINING WALL
KEYSTONE RETAINING WALL SYSTEMS
13453 COUNTY ROAD 1
FAIRHOPE, AL 36532
(251) 990-57612.

MESA RETAINING WALL SYSTEM
TENSAR EARTH TECHNOLOGY, INC.
227 RITTER ROAD
SEWICKLEY, PA 15143
(412) 749-9190

PYRAMID MODULAR BLOCKWALL
THE REINFORCED EARTH COMPANY
133 PARK STREET
NORTH READING, MA 01864
(978) 664-2830

REDI-ROCK RETAINING WALL-COBBLESTONE FACE MOLD
REDI-ROCK WALLS-CT DIVISION
68A SOUTH CANAL STREET
PLAINVILLE, CT 06062
(860) 793-6805

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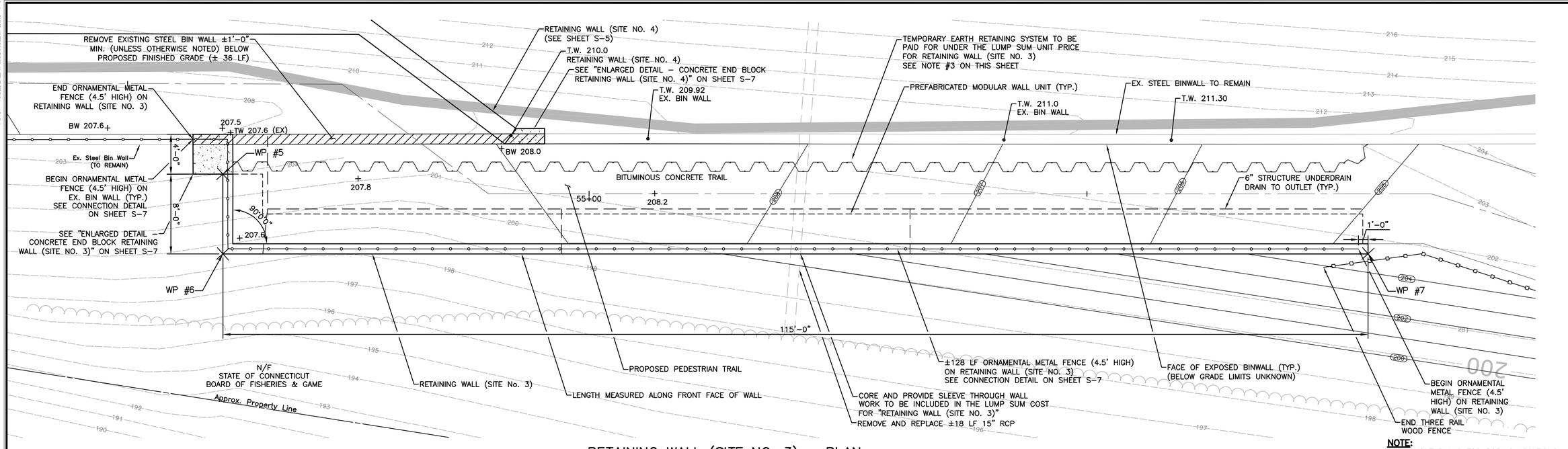
REVISIONS

STRUCTURAL PLANS - EMBANKMENT WALL (SITE NO. 2)
NAUGATUCK RIVER TRAIL PHASE 1
MAPLE STREET TO BRIDGE STREET
NAUGATUCK, CONNECTICUT

FWW DESIGNED	FWW DRAWN	GDJ CHECKED
SCALE	AS NOTED	
DATE	JANUARY 5, 2012	
PROJECT NO.	2129-11	
SHEET NO.	33 OF 48	

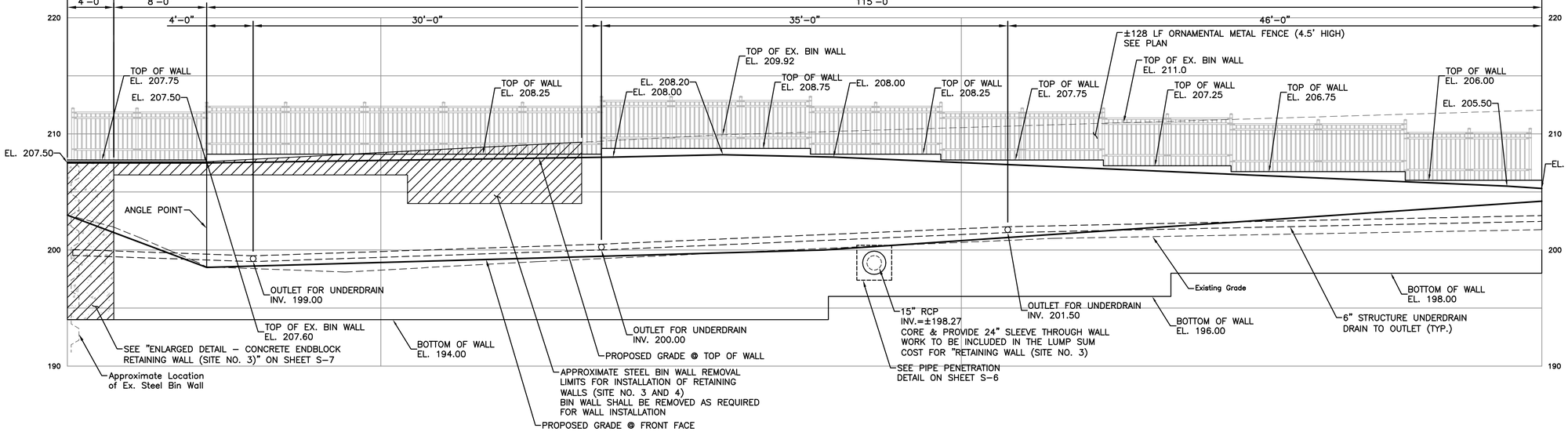
S-3
SHEET NO.



RETAINING WALL (SITE NO. 3) – PLAN

SCALE: 1" = 5'-0"

NOTE:
SEE LAYOUT PLANS FOR BORING LOCATIONS



RETAINING WALL (SITE NO. 3) – ELEVATION

SCALE: 1" = 5'-0"

TABLE OF COORDINATES		
WP#	N-COORDINATE	E-COORDINATE
5	743259.62	918037.50
6	743264.94	918031.53
7	743179.14	917954.96

LEGEND

+ WP #1 WORKING POINT

RETAINING WALL (SITE NO. 3) QUANTITIES

DESCRIPTION	UNITS	QUANTITY
RETAINING WALL (SITE NO. 3)	L.S.	1
PARTIAL REMOVAL OF STEEL BIN WALL	L.S.	1
ORNAMENTAL METAL FENCE (4.5' HIGH)	L.F.	128
CLASS "C" CONCRETE	C.Y.	9
DEFORMED STEEL BARS	L.B.	820

CONCRETE DISTRIBUTION

Description	Unit	Quantity
Superstructure	C.Y.	–
Substructure	C.Y.	9
Footings	C.Y.	–
Total	C.Y.	9

INSPECTION OF FIELD WELDS

METHOD	UNIT	QUANTITY
Ultrasonic	IN	0
Magnetic Particle	LF	0

NOTES:

1. THE PROPRIETARY WALL SHALL BE DESIGNED, DETAILED AND CONSTRUCTED IN ACCORDANCE WITH THE SPECIAL PROVISION "RETAINING WALL (SITE NO. 3)". THE FOLLOWING IS A LIST OF PROPRIETARY PREFABRICATED MODULAR RETAINING WALLS FOR THIS PROJECT:

   DOUBLEWAL – STANDARD MODULE
   DOUBLEWAL
   173 CHURCH STREET
   YALESVILLE, CT 06497

   T-WALL RETAINING WALL SYSTEM
   THE NEEL COMPANY
   8328-D TRAFORD LANE
   SPRINGFIELD, VA 22152

2. THE MAXIMUM ALLOWABLE BEARING PRESSURE = 8000 PSF
3. TEMPORARY EARTH RETAINING SYSTEM BELOW PAY LIMITS AND ANY TIEBACKS AND BRACING SHALL BE INCLUDED IN THE LUMP SUM COST OF THE WALL. DUE TO SOIL CONDITIONS, THE GEOTECHNICAL ENGINEER RECOMMENDS SOLDIER PILES AND LAGGING.
4. THE DETAILS SHOWN ARE NOT SPECIFIC. THE CONTRACTOR'S DESIGNER SHALL MODIFY EACH SECTION FOR EACH SPECIFIC SITE.
5. LIGHT STANDARD ANCHORAGES, JUNCTION BOXES, AND RIGID METAL CONDUIT SHALL BE INCLUDED IN THE LUMP SUM PAY ITEM "RETAINING WALL (SITE No. 3)".
6. THE DETAILING AND REINFORCEMENT OF THE PARAPET SECTION ABOVE THE GUTTER LINE SHALL BE AS SHOWN FOR THE CAST-IN-PLACE REINFORCED CONCRETE WALL SECTION OR AS DETAILED ELSEWHERE ON THE PLANS.
7. REINFORCING TO HAVE 2" COVER EXCEPT WHERE SHOWN OTHERWISE.
8. ALL DIMENSIONS ARE SPECIFIED WITH THE APPLICABLE UNITS OF MEASUREMENT.
9. THE COLOR OF THE DRY CAST BLOCK SHALL BE COORDINATED AND APPROVED BY THE BOROUGH OF NAUGATUCK.
10. ANY ADDITIONAL PERVIOUS STRUCTURE BACKFILL REQUIRED OUTSIDE THIS LIMIT SHALL ALSO BE INCLUDED IN THE LUMP SUM PRICE.
11. FOR TYPICAL RETAINING WALL SECTION, SEE SHEET S-6.

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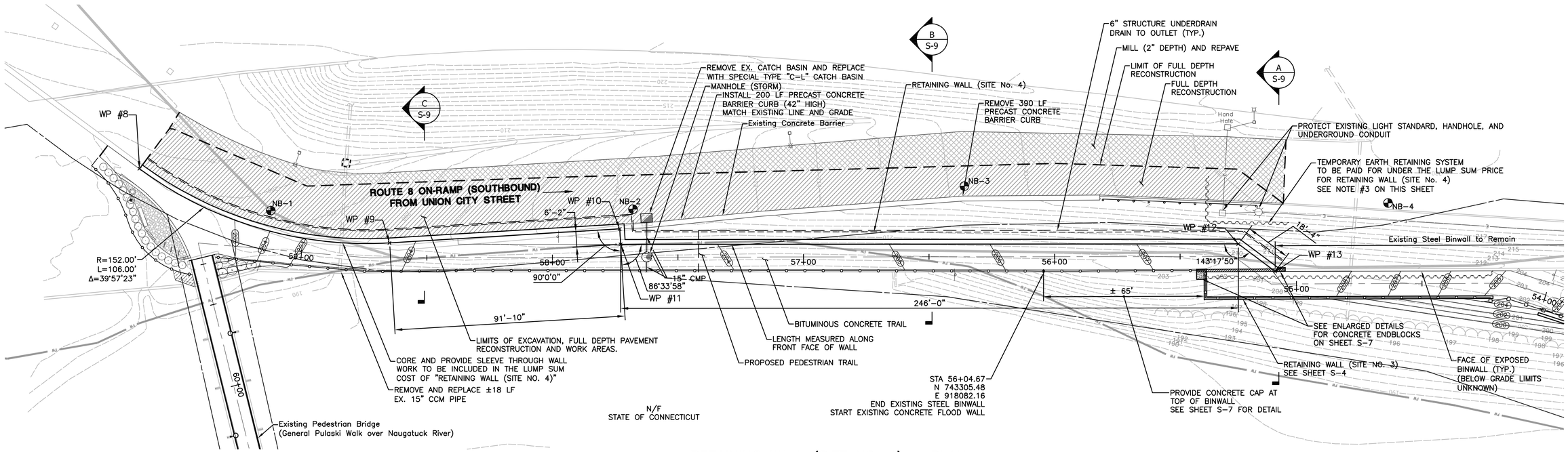
REVISIONS

STRUCTURAL PLANS - RETAINING WALL (SITE NO. 3)
NAUGATUCK RIVER TRAIL PHASE 1
MAPLE STREET TO BRIDGE STREET
NAUGATUCK, CONNECTICUT

FWW DESIGNED	FWW DRAWN	GDJ CHECKED

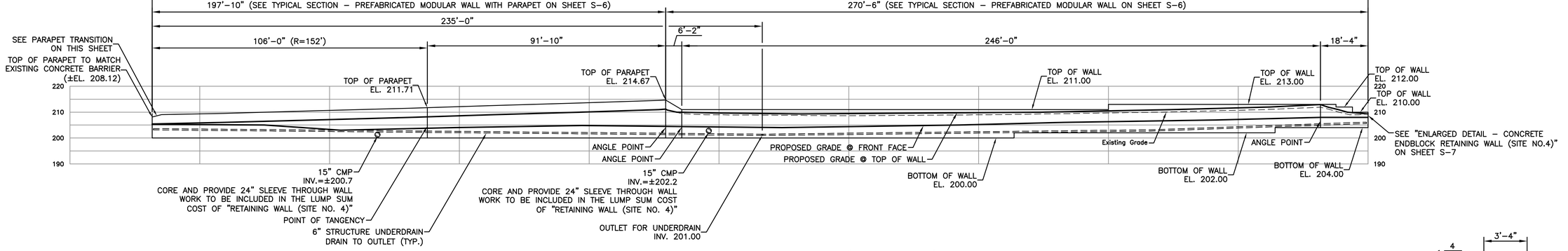
SCALE AS NOTED
DATE JANUARY 5, 2012
PROJECT NO. 2129-11
SHEET NO. 34 OF 48

S-4
SHEET NO.



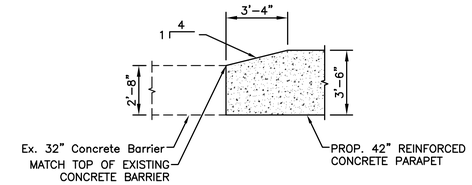
RETAINING WALL (SITE NO. 4) – PLAN

SCALE: 1" = 20'-0"



RETAINING WALL (SITE NO. 4) – ELEVATION

SCALE: 1" = 20'-0"



PARAPET TRANSITION DETAIL

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

LEGEND

+ WP #1	WORKING POINT
NB-#	BORING LOCATION

RETAINING WALL (SITE NO. 4) QUANTITIES

DESCRIPTION	UNITS	QUANTITY
RETAINING WALL (SITE NO. 4)	L.S.	1
CLASS 'C' CONCRETE	C.Y.	1
DEFORMED STEEL BARS	LB.	300

CONCRETE DISTRIBUTION

Description	Unit	Quantity
Superstructure	C.Y.	–
Substructure	C.Y.	1
Footings	C.Y.	–
Total	C.Y.	1

INSPECTION OF FIELD WELDS

METHOD	UNIT	QUANTITY
Ultrasonic	IN	0
Magnetic Particle	LF	0

NOTES:

1. THE PROPRIETARY WALL SHALL BE DESIGNED, DETAILED AND CONSTRUCTED IN ACCORDANCE WITH THE SPECIAL PROVISION "RETAINING WALL (SITE NO. 4)". THE FOLLOWING IS A LIST OF PROPRIETARY PREFABRICATED MODULAR RETAINING WALLS FOR THIS PROJECT:

   DOUBLEWAL – STANDARD MODULE
   DOUBLEWAL
   173 CHURCH STREET
   YALESVILLE, CT 06497

   T-WALL RETAINING WALL SYSTEM
   THE NEEL COMPANY
   8328-D TRAFORD LANE
   SPRINGFIELD, VA 22152

2. THE MAXIMUM ALLOWABLE BEARING PRESSURE = 8000 PSF
3. TEMPORARY EARTH RETAINING SYSTEM BELOW PAY LIMITS AND ANY TIEBACKS AND BRACING SHALL BE INCLUDED IN THE LUMP SUM COST OF THE WALL. DUE TO SOIL CONDITIONS, THE GEOTECHNICAL ENGINEER RECOMMENDS SOLDIER PILES AND LAGGING.
4. THE DETAILS SHOWN ARE NOT SPECIFIC. THE CONTRACTOR'S DESIGNER SHALL MODIFY EACH SECTION FOR EACH SPECIFIC SITE.
5. LIGHT STANDARD ANCHORAGES, JUNCTION BOXES, AND RIGID METAL CONDUIT SHALL BE INCLUDED IN THE LUMP SUM PAY ITEM "RETAINING WALL (SITE No. 4)".
6. THE DETAILING AND REINFORCEMENT OF THE PARAPET SECTION ABOVE THE GUTTER LINE SHALL BE AS SHOWN FOR THE CAST-IN-PLACE REINFORCED CONCRETE WALL SECTION, PER SPECIAL PROVISION, OR AS DETAILED ELSEWHERE ON THE PLANS.
7. REINFORCING TO HAVE 2" COVER EXCEPT WHERE SHOWN OTHERWISE.
8. ALL DIMENSIONS ARE SPECIFIED WITH THE APPLICABLE UNITS OF MEASUREMENT.
9. THE COLOR OF THE DRY CAST BLOCK SHALL BE COORDINATED AND APPROVED BY THE BOROUGH OF NAUGATUCK.
10. ANY ADDITIONAL PERVIOUS STRUCTURE BACKFILL REQUIRED OUTSIDE THIS LIMIT SHALL ALSO BE INCLUDED IN THE LUMP SUM PRICE.
11. FOR TYPICAL RETAINING WALL SECTION, SEE SHEET S-6.

TABLE OF COORDINATES

WP#	N-COORDINATE	E-COORDINATE
8	743545.74	918353.52
9	743491.35	918265.04
10	743419.43	918207.94
11	743423.27	918203.10
12	743240.10	918038.89
13	743236.48	918020.92

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REVISIONS

STRUCTURAL PLANS - RETAINING WALL (SITE NO. 4)
NAUGATUCK RIVER TRAIL
PHASE 1
MAPLE STREET TO BRIDGE STREET
NAUGATUCK, CONNECTICUT

FWW	SMB	GDJ
DESIGNED	DRAWN	CHECKED

SCALE AS NOTED

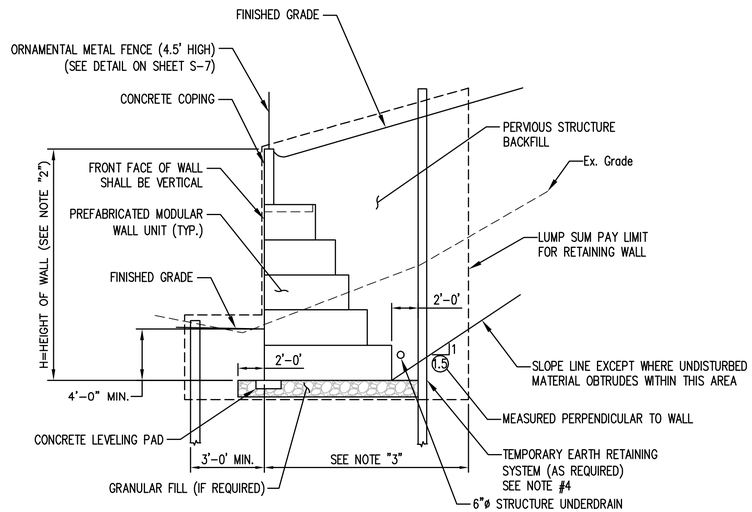
DATE JANUARY 5, 2012

PROJECT NO. 2129-11

SHEET NO. 35 OF 48

S-5

SHEET NO.

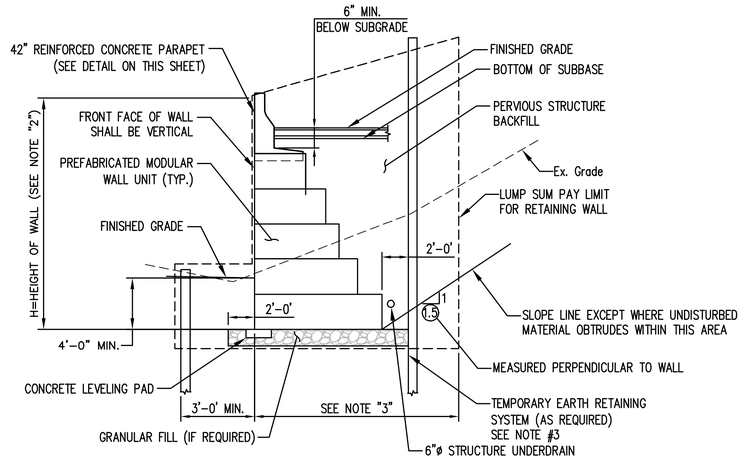


TYPICAL SECTION – PREFABRICATED MODULAR WALL
RETAINING WALL (SITE NO. 3)
RETAINING WALL (SITE NO. 4)

SCALE: NONE

NOTE:

1. ONE OF THE FOLLOWING PREFABRICATED MODULAR WALLS SHALL BE USED FOR RETAINING WALLS (SITE NO. 3 AND 4):
   DOUBLEWAL – STANDARD MODULE
   T-WALL RETAINING WALL SYSTEM
2. MAX. RETAINING WALL HEIGHT (H):
   RETAINING WALL (SITE NO. 3) MAX. H=15'-0"
   RETAINING WALL (SITE NO. 4) MAX. H=14'-0"
3. DIMENSION:
   RETAINING WALL (SITE NO. 3) = 14'-0"
   RETAINING WALL (SITE NO. 4) = 13'-0"
4. TEMPORARY EARTH RETAINING SYSTEM BELOW PAY LIMITS AND ANY TIEBACKS AND BRACING SHALL BE INCLUDED IN THE LUMP SUM COST OF THE WALL. DUE TO SOIL CONDITIONS, THE GEOTECHNICAL ENGINEER RECOMMENDS SOLDIER PILES AND LAGGING.

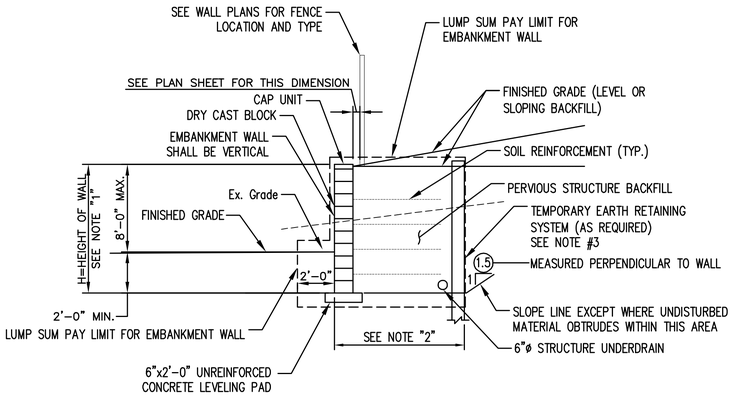


TYPICAL SECTION – PREFABRICATED MODULAR WALL WITH PARAPET
RETAINING WALL (SITE NO. 4)

SCALE: NONE

NOTE:

1. ONE OF THE FOLLOWING PREFABRICATED MODULAR WALLS SHALL BE USED FOR RETAINING WALL (SITE NO. 4):
   DOUBLEWAL – STANDARD MODULE
   T-WALL RETAINING WALL SYSTEM
2. MAX. RETAINING WALL H=14'-0".
3. DIMENSION = 13'-0".
4. TEMPORARY EARTH RETAINING SYSTEM BELOW PAY LIMITS AND ANY TIEBACKS AND BRACING SHALL BE INCLUDED IN THE LUMP SUM COST OF THE WALL. DUE TO SOIL CONDITIONS, THE GEOTECHNICAL ENGINEER RECOMMENDS SOLDIER PILES AND LAGGING.

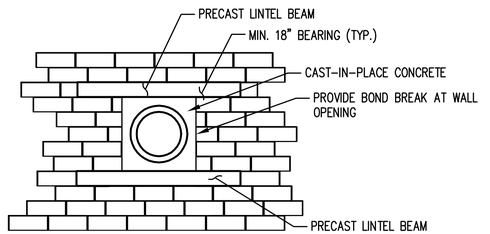


TYPICAL EMBANKMENT WALL SECTION
EMBANKMENT WALL (SITE NO. 1)
EMBANKMENT WALL (SITE NO. 2)
EMBANKMENT WALL (SITE NO. 5)

SCALE: NONE

NOTE:

1. MAX. RETAINING WALL HEIGHT (H):
   EMBANKMENT WALL (SITE NO. 1) MAX. H=4'-0"
   EMBANKMENT WALL (SITE NO. 2) MAX. H=9'-0"
   EMBANKMENT WALL (SITE NO. 5) MAX. H=7'-0"
2. DIMENSION:
   EMBANKMENT WALL (SITE NO. 1) = 5'-3"
   EMBANKMENT WALL (SITE NO. 2) = 9'-3"
   EMBANKMENT WALL (SITE NO. 5) = 7'-9"
3. TEMPORARY EARTH RETAINING SYSTEM BELOW PAY LIMITS AND ANY TIEBACKS AND BRACING SHALL BE INCLUDED IN THE LUMP SUM COST OF THE WALL. DUE TO SOIL CONDITIONS, THE GEOTECHNICAL ENGINEER RECOMMENDS SOLDIER PILES AND LAGGING.

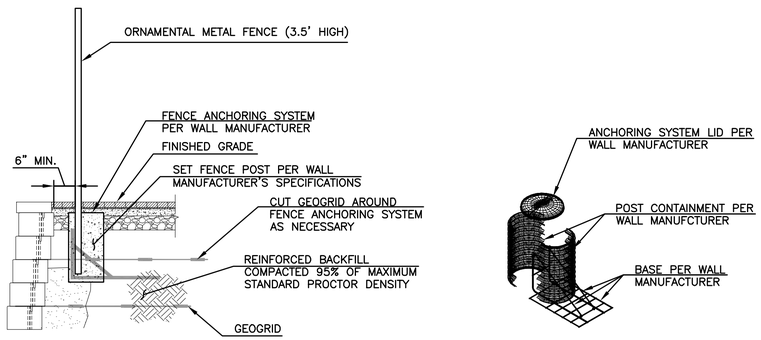


LINTEL NOTES:

1. FINAL BEAM SIZE, REINFORCEMENT, AND CONFIGURATION TO BE DESIGNED BY WALL DESIGN ENGINEER
2. LINTEL BEAMS SHALL BE PRECAST WITH MINIMUM 7 DAYS CURE
3. HEIGHT OF BEAM SHALL CORRESPOND TO HEIGHT OF MODULAR UNITS
4. PLACEMENT OF LINTEL BEAMS SHALL BE CONSISTENT WITH THE PLACEMENT OF OUTFALL PIPE
5. INSTALL OUTFALL PIPE PRIOR TO CONSTRUCTION OF WALL ABOVE
6. GEOTEXTILE FABRIC SHALL BE INSTALLED AROUND PIPE OPENING
7. LINTEL TO EXTEND MINIMUM 18" EITHER SIDE OF PIPE
8. COST OF WALL PENETRATION TO BE INCLUDED IN LUMP SUM PRICE OF THE RETAINING WALL IN WHICH IT IS LOCATED.

WALL W/ PIPE PENETRATION

SCALE: NONE



FENCE POST DETAIL W/ ANCHORING SYSTEM

NOT TO SCALE

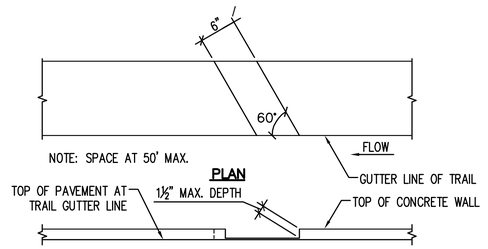
FENCE POST ANCHORING SYSTEM

NOT TO SCALE

NOTE:
CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF FENCE POST ANCHORING SYSTEM FOR APPROVAL

FENCE INSTALLATION DETAILS
EMBANKMENT WALL (SITE NO. 1)

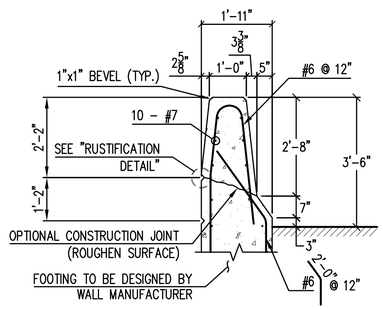
NOT TO SCALE



ELEVATION

DRAINAGE LEAK-OFF

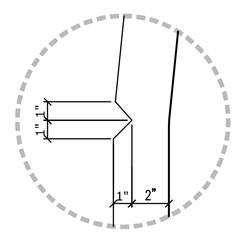
SCALE: 1" = 1'-0"



42" REINFORCED CONCRETE PARAPET

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

NOTE:
THE COST OF CONCRETE AND DEFORMED STEEL BARS IN PARAPET AND FOOTING TO BE INCLUDED IN THE LUMP SUM PRICE FOR RETAINING WALL (SITE NO. 4)



RUSTICATION DETAIL

SCALE: 3"=1'-0"

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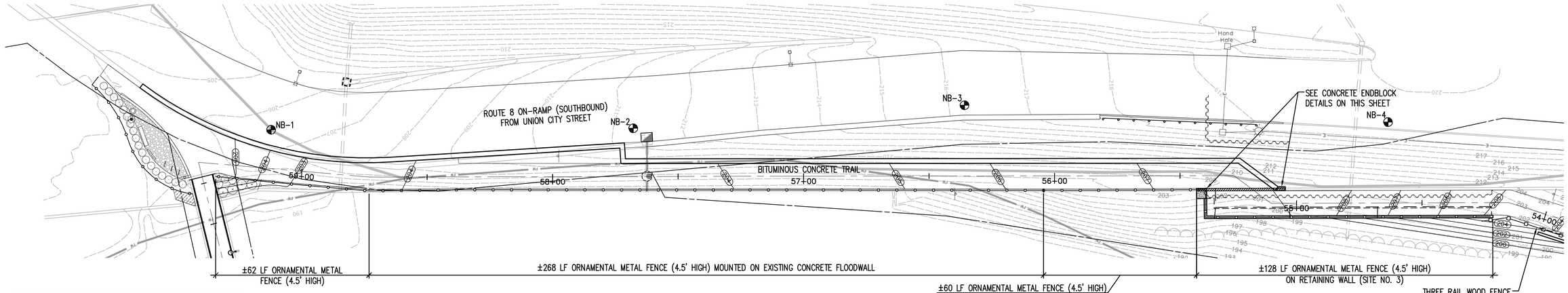
REVISIONS

STRUCTURAL PLANS - RETAINING WALL DETAILS
NAUGATUCK RIVER TRAIL
PHASE 1
MAPLE STREET TO BRIDGE STREET
NAUGATUCK, CONNECTICUT

FWW DESIGNED	FWW DRAWN	GDJ CHECKED
SCALE AS NOTED		
DATE JANUARY 5, 2012		
PROJECT NO. 2129-11		
SHEET NO. 36 OF 48		

S-6

SHEET NO.

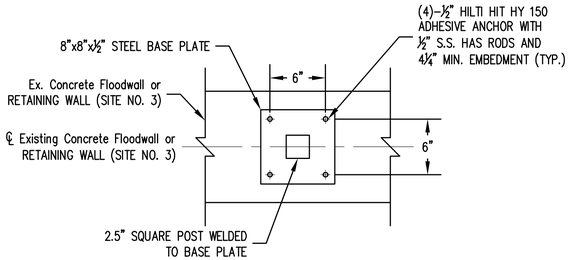


LEGEND

NB–# BORING LOCATION

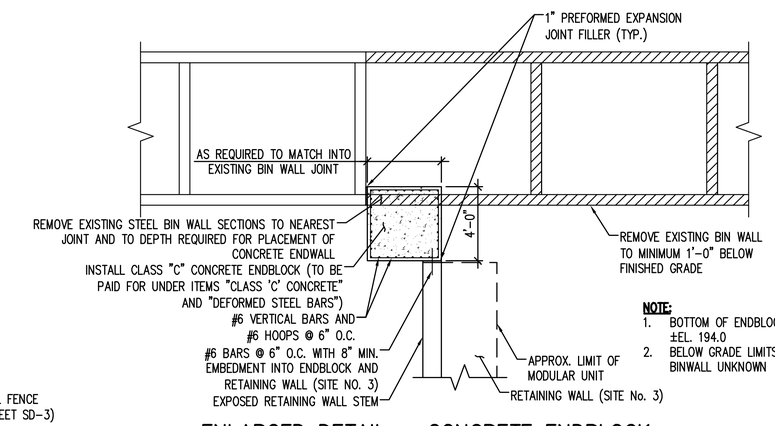
ORNAMENTAL METAL FENCE (4.5' HIGH) INSTALLATION LIMITS

SCALE: 1" = 20'–0"



ORNAMENTAL METAL FENCE CONNECTION (4.5' HIGH) PLAN

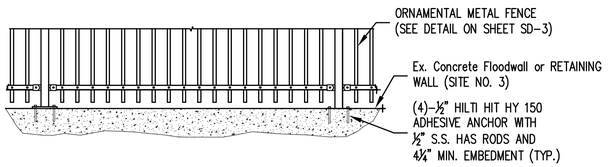
SCALE: 1 1/2" = 1'–0"



NOTE:
1. BOTTOM OF ENDBLOCK AT ±EL. 194.0
2. BELOW GRADE LIMITS OF BINWALL UNKNOWN

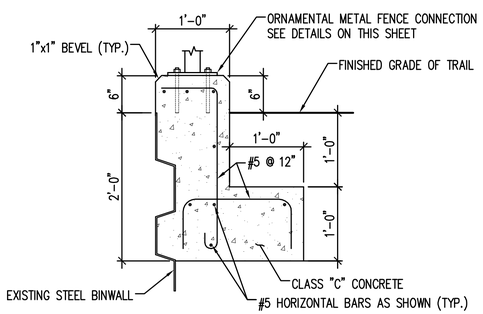
ENLARGED DETAIL – CONCRETE ENDBLOCK RETAINING WALL (SITE NO. 3)

SCALE: 1/4" = 1'–0"



ORNAMENTAL METAL FENCE (4.5' HIGH) CONNECTION ELEVATION

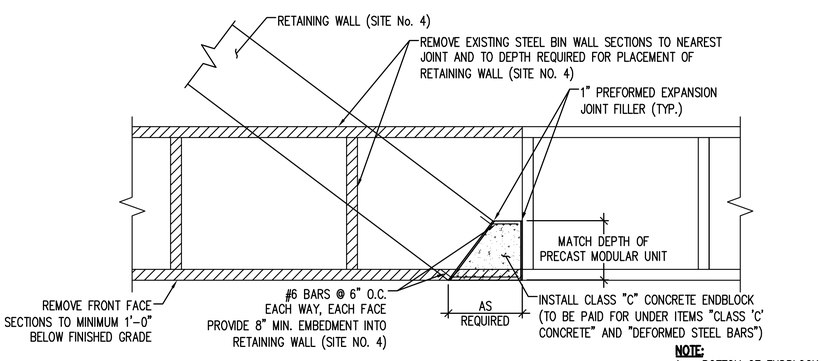
SCALE: 1/2" = 1'–0"



CONCRETE CAP ON EXISTING BIN WALL

SCALE: 1" = 1'–0"

NOTE:
CONCRETE CAP TO BE PAID FOR UNDER "CLASS 'C' CONCRETE" AND "DEFORMED STEEL BARS"



NOTE:
1. BOTTOM OF ENDBLOCK AT ±EL. 204.0
2. BELOW GRADE LIMITS OF BINWALL UNKNOWN

ENLARGED DETAIL – CONCRETE ENDBLOCK RETAINING WALL (SITE NO. 4)

SCALE: 1/4" = 1'–0"

DRILLER: Trent Roe | INSPECTOR: R. Benivel | BORING RIG & MAKE: Mobile B53 | Surface Elevation: 208.4 | Date Started: 12/16/2008 | Date Finished: 12/16/2008 | Groundwater Observations: AT 14.25 ft AFTER 0 HRS; AT AFTER HRS

APPLIED EARTH TECHNOLOGIES, 571 BEE STREET, MERIDEN CT 06450
SOIL TEST BORING REPORT
TOWN: Naugatuck | PROJECT NAME: Naugatuck Greenway | PROJECT NUMBER: 91208 | LOCATION: Route 8 Exit 28 South Onramp

SHEET 1 OF 1 | BORING CONTRACTOR: New England Boring Contractors | SOIL ENGINEER: Applied Earth Technologies, Inc. | DESIGN ENGINEER: Milone & MacBroom, Inc.

Type: S. Auger (Hollow) | Casing: | Sampler: SS | Core Bar: | Hole No. NB-1 | Line & Station STA. 59+14.00 | Offset 15.4'R | N Coordinate 743517.86 | E. Coordinate 918306.20 | Size I. D. 3 1/4.0 in | Hammer Fall | 300 lbs 140 lb | 24 in 30 in | 1 3/8 in

DEPTH IN FEET FROM – TO	NO.	PEN. INCH	REC. INCH	TYPE	BLOWS PER 6 INCHES ON SAMPLER 0 - 6 | 6 - 12 | 12-18 | 18-24	STRATA CHANGE: DEPTH/ ELEV.	IDENTIFICATION OF SOIL, REMARKS (INCL. COLOR, LOSS OF WASH WATER, ETC.)
0.8-2.8	1	24	16	D	39 | 27 | 21 | 42	1.3	8" Asphalt concrete over 6" crushed stone and gravel.
						205.1	Brown fine coarse SAND, some fine coarse gravel, little silt, occasional cobbles and boulders.
5.0-7.0	2	24	0	D	18 | 30 | 26 | 29	7.0	
						199.4	Brown fine SAND, some fine, little fine gravel, occasional cobbles and boulders.
10.0-12.0	3	24	12	D	19 | 18 | 18 | 29	10.0	
						198.4	Brown fine coarse SAND and fine coarse gravel, little silt, occasional cobbles and boulders.
15.0-18.5	4	18	16	D	39 | 40 | 100	16.8	Auger refusal at 16.8 ft.
						189.6	End of Boring at 16.8 ft.

From Ground Surface to 16.8 ft, 4.0 in hallow stem auger was used
Footage in Earth 16.8 | Footage in Rock 0.0 | No. of Samples 4 | Hole No. NB-1
SAMPLE TYPE CODING: D = DRIVEN, C = CORE, A = AUGER, UP = UNDISTURBED PISTON
PROPORTIONS USED: TRACE = 1-10%, LITTLE = 10-20%, SOME = 20-35%, AND = 35-50%

BORING REPORT NB–1

DRILLER: Trent Roe | INSPECTOR: R. Benivel | BORING RIG & MAKE: Mobile B53 | Surface Elevation: 211.3 | Date Started: 12/16/2008 | Date Finished: 12/16/2008 | Groundwater Observations: AT 20.0 ft AFTER 0 HRS; AT AFTER HRS

APPLIED EARTH TECHNOLOGIES, 571 BEE STREET, MERIDEN CT 06450
SOIL TEST BORING REPORT
TOWN: Naugatuck | PROJECT NAME: Naugatuck Greenway | PROJECT NUMBER: 91208 | LOCATION: Route 8 Exit 28 South Onramp

SHEET 1 OF 1 | BORING CONTRACTOR: New England Boring Contractors | SOIL ENGINEER: Applied Earth Technologies, Inc. | DESIGN ENGINEER: Milone & MacBroom, Inc.

Type: S. Auger (Hollow) | Casing: | Sampler: SS | Core Bar: | Hole No. NB-2 | Line & Station STA. 57+67.07 | Offset 19.0'R | N Coordinate 743410.23 | E. Coordinate 918210.28 | Size I. D. 4.0 in | Hammer Fall | 140 lb 30 in | 1 3/8 in

DEPTH IN FEET FROM – TO	NO.	PEN. INCH	REC. INCH	TYPE	BLOWS PER 6 INCHES ON SAMPLER 0 - 6 | 6 - 12 | 12-18 | 18-24	STRATA CHANGE: DEPTH/ ELEV.	IDENTIFICATION OF SOIL, REMARKS (INCL. COLOR, LOSS OF WASH WATER, ETC.)
0.8-2.8	1	24	18	D	59 | 38 | 30 | 42	1.3	9" Asphalt concrete over 6" crushed stone and gravel.
						210.0	Brown fine coarse SAND and fine coarse gravel, little silt.
5.0-7.0	2	24	3	D	18 | 7 | 4 | 6	3.0	
						208.3	Gray brown fine SAND, some silt, little fine gravel.
10.0-12.0	3	24	18	D	38 | 50 | 77 | 62	13.0	
						201.3	Brown fine coarse SAND and fine coarse gravel, little silt, occasional cobbles and boulders.
15.0-17.0	4	24	16	D	23 | 20 | 33 | 34	19.0	
						192.3	Gray brown fine SAND, some silt, trace organic, ashes, slag.
20.0-22.0	5	24	18	D	7 | 8 | 13 | 16	26.5	Hallow stem auger refusal 26.5 feet.
25.0-26.3	6	24	4	D	14 | 29 | 100/4	184.8	End of Boring at 26.5 ft.

From Ground Surface to 26.5 ft, 4.0 in solid auger was used
Footage in Earth 26.5 | Footage in Rock 0.0 | No. of Samples 6 | Hole No. NB-2
SAMPLE TYPE CODING: D = DRIVEN, C = CORE, A = AUGER, UP = UNDISTURBED PISTON
PROPORTIONS USED: TRACE = 1-10%, LITTLE = 10-20%, SOME = 20-35%, AND = 35-50%

BORING REPORT NB–2

DRILLER: Trent Roe | INSPECTOR: R. Benivel | BORING RIG & MAKE: Mobile B53 | Surface Elevation: 216.2 | Date Started: 12/17/2008 | Date Finished: 12/17/2008 | Groundwater Observations: AT 14.25 ft AFTER 0 HRS; AT AFTER HRS

APPLIED EARTH TECHNOLOGIES, 571 BEE STREET, MERIDEN CT 06450
SOIL TEST BORING REPORT
TOWN: Naugatuck | PROJECT NAME: Naugatuck Greenway | PROJECT NUMBER: 91208 | LOCATION: Route 8 Exit 28 South Onramp

SHEET 1 OF 1 | BORING CONTRACTOR: New England Boring Contractors | SOIL ENGINEER: Applied Earth Technologies, Inc. | DESIGN ENGINEER: Milone & MacBroom, Inc.

Type: S. Auger (Hollow) | Casing: | Sampler: SS | Core Bar: | Hole No. NB-3 | Line & Station STA. 56+35.00 | Offset 28.3'R | N Coordinate 743305.90 | E. Coordinate 918128.91 | Size I. D. 4 in | Hammer 300 lbs | 24 in | 1 3/8 in | 140 lb | 30 in

DEPTH IN FEET FROM – TO	NO.	PEN. INCH	REC. INCH	TYPE	BLOWS PER 6 INCHES ON SAMPLER 0 - 6 | 6 - 12 | 12-18 | 18-24	STRATA CHANGE: DEPTH/ ELEV.	IDENTIFICATION OF SOIL, REMARKS (INCL. COLOR, LOSS OF WASH WATER, ETC.)
0.8-2.8	1	24	12	D	46 | 45 | 37 | 26	1.3	9" Asphalt concrete over 6" crushed stone and gravel.
						214.9	Brown fine coarse SAND and fine coarse gravel, little silt, occasional boulders.
5.0-7.0	2	24	22	D	25 | 26 | 75 | 62		
10.0-12.0	3	24	18	D	30 | 38 | 38 | 44		
4 min 12.5-14.5	C1	24	10	C		12.5	Hallow stem auger refusal 12.5 feet.
7 min						203.7	Brown fine coarse GRAVEL and fine coarse sand, cobbles and boulders.
15.0-17.0	4	24	14	D	34 | 28 | 27 | 37		
7 min 19.5-24.5	C2	60	36	C			
6 min							
3 min							
6 min							
3 min 24.5-29.5	C3	60	22	C			
3 min							
2 min							
1 min 29.5-34.5	C4	60	12	C			
2 min							
3 min							
2 min							
2 min						34.5	
						181.7	End of Boring at 34.5 ft. Water at 15 ft.

From Ground Surface to 26.5 ft, 4.0 in solid auger was used
Footage in Earth 26.5 | Footage in Rock 0.0 | No. of Samples 6 | Hole No. NB-3
SAMPLE TYPE CODING: D = DRIVEN, C = CORE, A = AUGER, UP = UNDISTURBED PISTON
PROPORTIONS USED: TRACE = 1-10%, LITTLE = 10-20%, SOME = 20-35%, AND = 35-50%

BORING REPORT NB–3

DRILLER: Trent Roe | INSPECTOR: R. Benivel | BORING RIG & MAKE: Mobile B53 | Surface Elevation: 219.41 | Date Started: 12/16/2008 | Date Finished: 12/16/2008 | Groundwater Observations: AT AFTER HRS; AT AFTER HRS

APPLIED EARTH TECHNOLOGIES, 571 BEE STREET, MERIDEN CT 06450
SOIL TEST BORING REPORT
TOWN: Naugatuck | PROJECT NAME: Naugatuck Greenway | PROJECT NUMBER: 91208 | LOCATION: Route 8 Exit 28 South Onramp

SHEET 1 OF 1 | BORING CONTRACTOR: New England Boring Contractors | SOIL ENGINEER: Applied Earth Technologies, Inc. | DESIGN ENGINEER: Milone & MacBroom, Inc.

Type: S. Auger (Hollow) | Casing: | Sampler: SS | Core Bar: | Hole No. NB-4 | Line & Station STA. 54+63.00 | Offset 32.2'R | N Coordinate 743184.82 | E. Coordinate 918011.19 | Size I. D. 3 1/4 in | Hammer | Fall | 140 lb 30 in | 1 3/8 in

DEPTH IN FEET FROM – TO	NO.	PEN. INCH	REC. INCH	TYPE	BLOWS PER 6 INCHES ON SAMPLER 0 - 6 | 6 - 12 | 12-18 | 18-24	STRATA CHANGE: DEPTH/ ELEV.	IDENTIFICATION OF SOIL, REMARKS (INCL. COLOR, LOSS OF WASH WATER, ETC.)
0.9-2.9	1	24	18	D	32 | 23 | 35 | 39	1.3	8" Asphalt concrete over 6" crushed stone and gravel.
						218.1	Brown fine coarse SAND, some fine coarse gravel, little silt, occasional cobbles and boulders.
5.0-7.0	2	24	16	D	24 | 20 | 14 | 14	6.0	
						213.4	Gray brown fine SAND, some silt, little fine coarse gravel, occasional cobbles and boulders.
10.0-12.0	3	24	20	D	17 | 13 | 29 | 53	13.0	Lead Auger broke at 13 ft.
						206.4	End of Boring at 16.8 ft.

From Ground Surface to 13 ft, 3 1/4.0 in solid auger was used
Footage in Earth 13 | Footage in Rock 0.0 | No. of Samples 3 | Hole No. NB-4
SAMPLE TYPE CODING: D = DRIVEN, C = CORE, A = AUGER, UP = UNDISTURBED PISTON
PROPORTIONS USED: TRACE = 1-10%, LITTLE = 10-20%, SOME = 20-35%, AND = 35-50%

BORING REPORT NB–4

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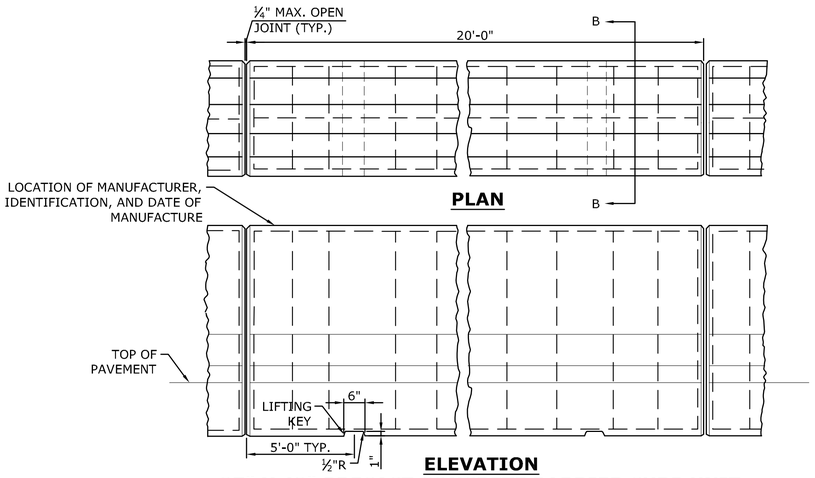
REVISIONS

STRUCTURAL PLANS - MISCELLANEOUS DETAILS
NAUGATUCK RIVER TRAIL
PHASE 1
MAPLE STREET TO BRIDGE STREET
NAUGATUCK, CONNECTICUT

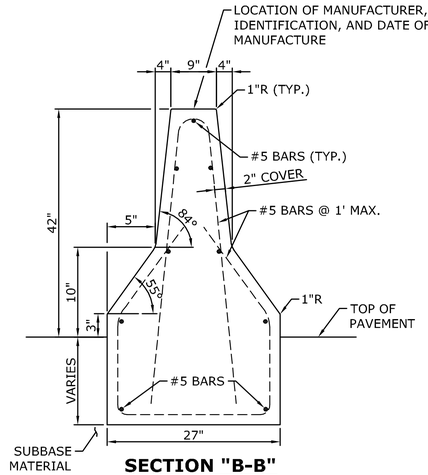
FWW DESIGNED	FWW DRAWN	GDJ CHECKED

SCALE AS NOTED
DATE JANUARY 5, 2012
PROJECT NO. 2129-11
SHEET NO. 37 OF 48

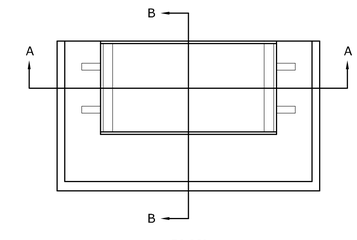
S-7
SHEET NO.



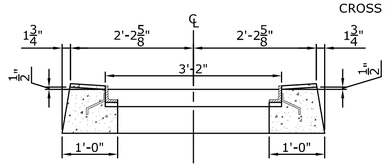
ELEVATION
27" X 42" PRECAST CONCRETE BARRIER CURB UNIT



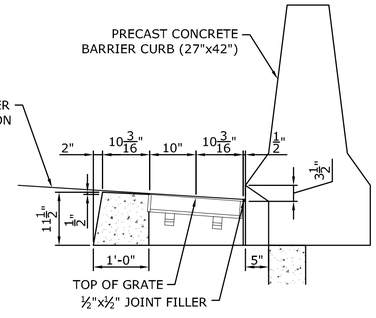
SECTION "B-B"
27" X 42" UNIT



PLAN



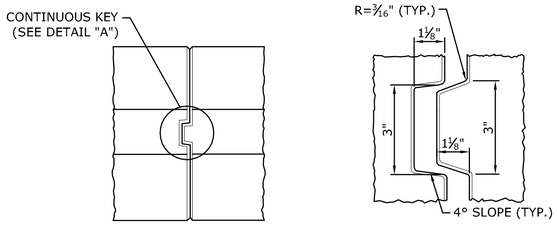
SECTION A-A



SECTION B-B

SPECIAL TYPE "C-L" CATCH BASIN
NOT TO SCALE

SPECIAL TYPE "C-L" CATCH BASIN
CROSS SECTION
NOT TO SCALE

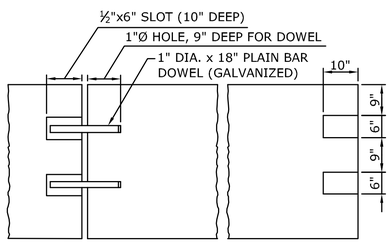


PLAN VIEW 30" X 45" UNIT
ALTERNATE CONNECTION AT ENDS

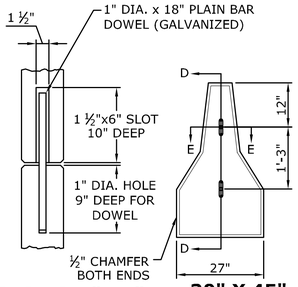
DETAIL "A"

GENERAL NOTES:

1. ALTERNATIVE DESIGNS FOR THE FOLLOWING MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL:
   A. UNIT END CONNECTIONS SIMILAR TO THE DESIGNS SHOWN
   B. LIFTING KEYS OR OTHER HANDLING DEVICES
2. TERMINAL END TREATMENTS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.



SECTION "D-D"
DOWEL DETAIL AT ENDS



SECTION "E-E"

30" X 45"
END VIEW

MISCELLANEOUS CONNECTICUT DETAIL
PRECAST CONCRETE BARRIER CURB (F - SHAPE)
NOT TO SCALE

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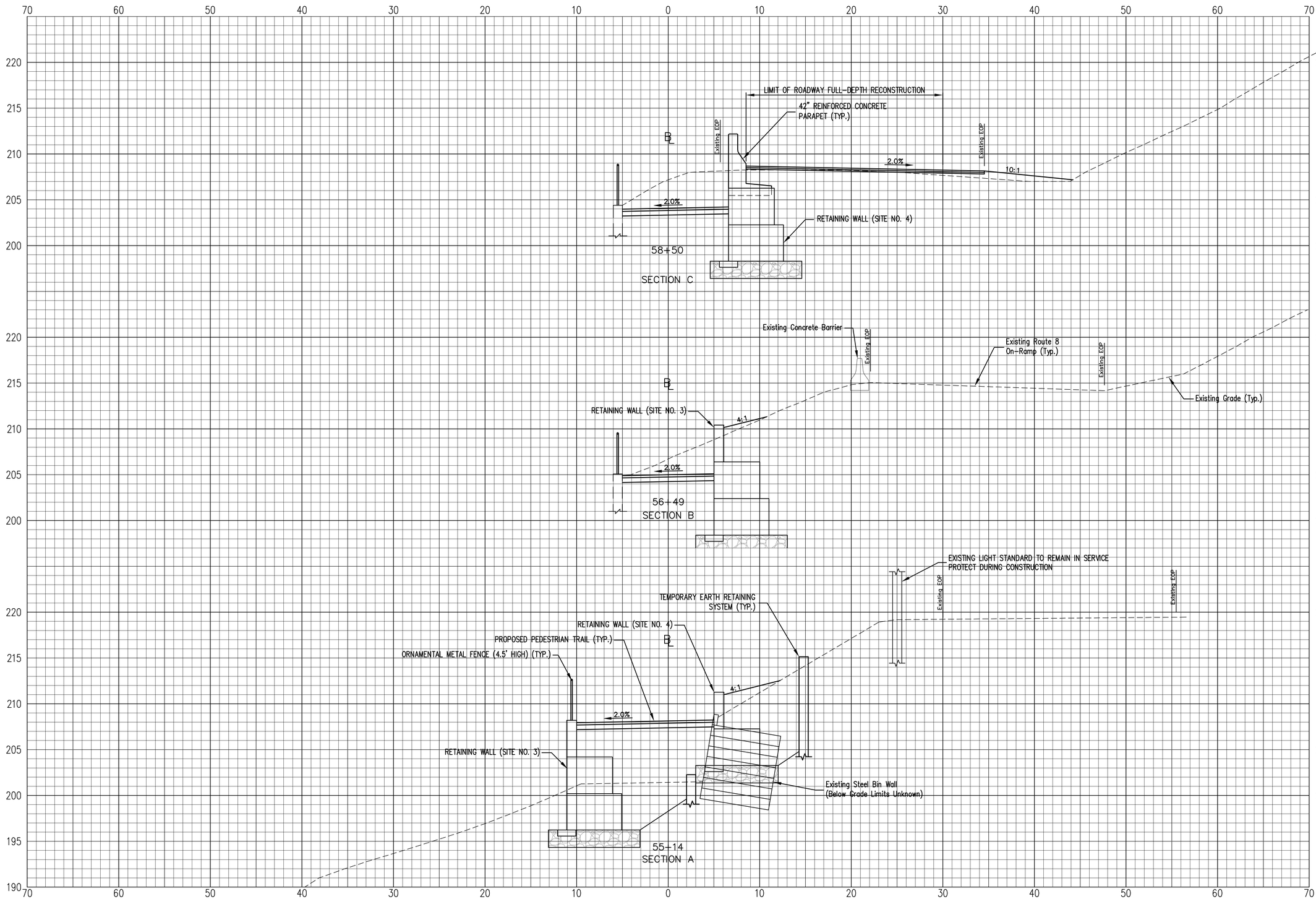
REVISIONS

STRUCTURAL PLANS - MISCELLANEOUS DETAILS
NAUGATUCK RIVER TRAIL
PHASE 1
MAPLE STREET TO BRIDGE STREET
NAUGATUCK, CONNECTICUT

FWW DESIGNED	FWW DRAWN	GDJ CHECKED
SCALE AS NOTED		
DATE JANUARY 5, 2012		
PROJECT NO. 2129-11		
SHEET NO. 38 OF 48		

S-8
SHEET NO.



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REVISIONS

STRUCTURAL PLANS - CRITICAL SECTIONS

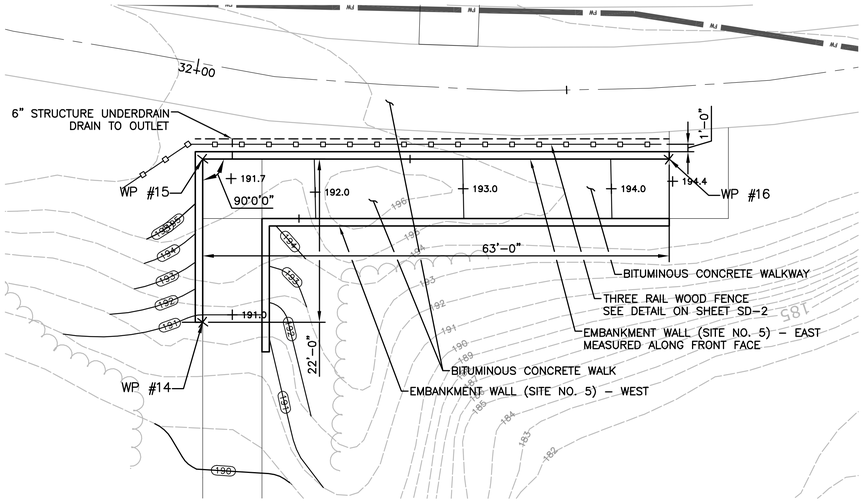
NAUGATUCK RIVER TRAIL
PHASE 1

MAPLE STREET TO BRIDGE STREET
NAUGATUCK, CONNECTICUT

FWW DESIGNED	FWW DRAWN	GDJ CHECKED
SCALE	1" = 5'-0"	
DATE	JANUARY 5, 2012	
PROJECT NO.	2129-11	
SHEET NO.	39 OF 48	

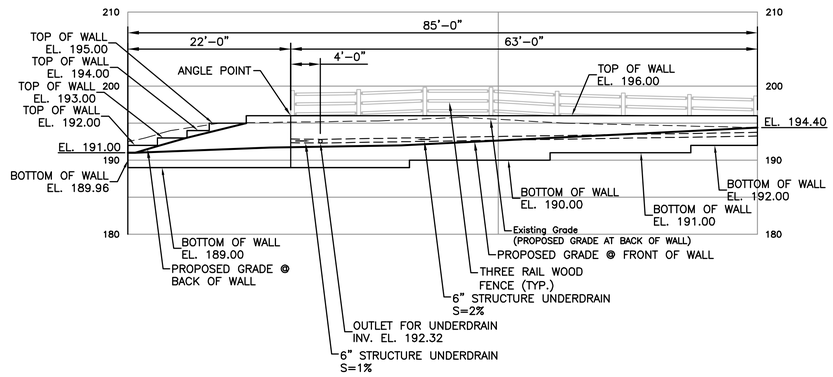
S-9

SHEET NO.



EMBANKMENT WALL (SITE NO. 5) – EAST PLAN

SCALE: 1" = 10'

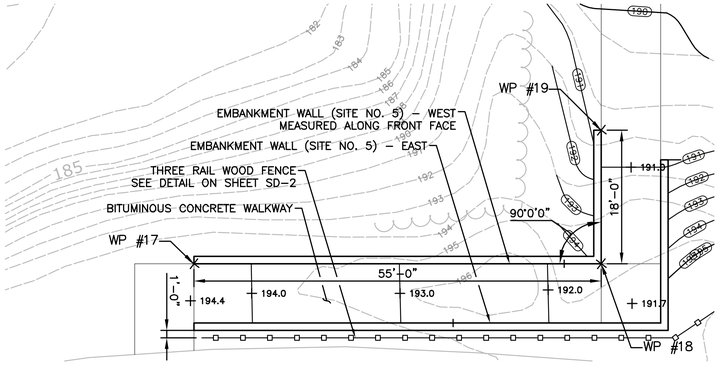


EMBANKMENT WALL (SITE NO. 5) – EAST ELEVATION

SCALE: 1" = 10'

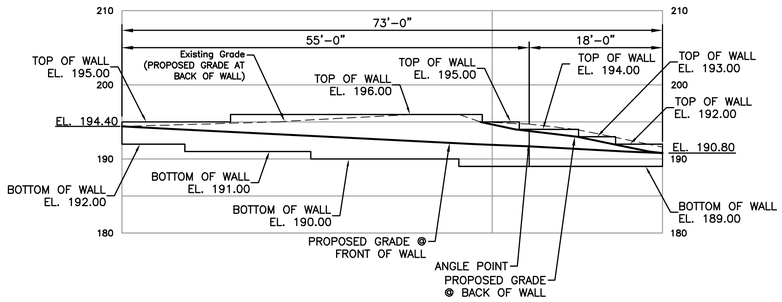
TABLE OF COORDINATES		
WP#	N-COORDINATE	E-COORDINATE
14	741325.34	917175.02
15	741338.67	917192.52
16	741288.55	917230.69

ADD ALTERNATE #1



EMBANKMENT WALL (SITE NO. 5) – WEST PLAN

SCALE: 1" = 10'



EMBANKMENT WALL (SITE NO. 5) – WEST ELEVATION

SCALE: 1" = 10'

TABLE OF COORDINATES		
WP#	N-COORDINATE	E-COORDINATE
17	741283.70	917224.33
18	741327.46	917191.00
19	741316.55	917176.68

EMBANKMENT WALL (SITE NO. 5) NOTES:

1. EMBANKMENT WALL (SITE NO. 5) AND THREE RAIL WOOD FENCE TO BE PAID FOR UNDER ITEM "ADD ALTERNATE #1 (RIVER ACCESS AREA COMPLETE)".
2. THE EMBANKMENT WALL SHALL BE DESIGNED, DETAILED AND CONSTRUCTED IN ACCORDANCE WITH THE SPECIAL PROVISION "EMBANKMENT WALL (SITE NO. 5)".
3. THE CONTRACTOR SHALL SELECT, DESIGN (FOR PROPRIETARY WALLS ONLY) AND CONSTRUCT ONE OF THE WALL OPTIONS AS LISTED IN THE SPECIAL PROVISION "EMBANKMENT WALL (SITE NO. 5)". ALL EMBANKMENT WALLS SHALL BE FROM THE SAME MANUFACTURER.
3. THE MAXIMUM ALLOWABLE BEARING PRESSURE = 1500 PSF
4. TEMPORARY EARTH RETAINING SYSTEM BELOW PAY LIMITS AND ANY TIEBACKS AND BRACING SHALL BE INCLUDED IN THE LUMP SUM COST OF THE WALL. DUE TO SOIL CONDITIONS, THE GEOTECHNICAL ENGINEER RECOMMENDS THE USE OF SOLDIER PILES AND LAGGING.
2. FOR TYPICAL EMBANKMENT WALL SECTION, SEE SHEET S-6
3. DETAILS SHOWN ARE NOT SPECIFIC. THE CONTRACTOR'S DESIGNER SHOULD MODIFY THE SECTION FOR EACH SPECIFIC SITE.
4. THE COLOR OF THE DRY CAST BLOCK SHALL BE COORDINATED AND APPROVED BY THE BOROUGH OF NAUGATUCK.
5. ANY ADDITIONAL PERVIOUS STRUCTURE BACKFILL REQUIRED OUTSIDE THIS LIMIT SHALL ALSO BE INCLUDED IN THE LUMP SUM PRICE.
6. FOR TYPICAL EMBANKMENT WALL SECTION, SEE SHEET S-6.
8. THE FOLLOWING IS A LIST OF THE PROPRIETARY EMBANKMENT RETAINING WALLS FOR THIS PROJECT:

VERSA-LOK RETAINING WALL
VERSA-LOK OF NEW ENGLAND
P.O. BOX 6002
NASHUA, NH 03063
(603) 883-3042

KEYSYSTEM I RETAINING WALL
KEYSTONE RETAINING WALL SYSTEMS
13453 COUNTY ROAD 1
FAIRHOPE, AL 36532
(251) 990-57612.

MESA RETAINING WALL SYSTEM
TENSAR EARTH TECHNOLOGY, INC.
227 RITTER ROAD
SEWICKLEY, PA 15143
(412) 749-9190

PYRAMID MODULAR BLOCKWALL
THE REINFORCED EARTH COMPANY
133 PARK STREET
NORTH READING, MA 01864
(978) 664-2830

REDI-ROCK RETAINING WALL-
COBBLESTONE FACE MOLD
REDI-ROCK WALLS-CT DIVISION
68A SOUTH CANAL STREET
PLAINVILLE, CT 06062
(860) 793-6805

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REVISIONS

STRUCTURAL PLANS - WALLS - ADD ALTERNATE #1

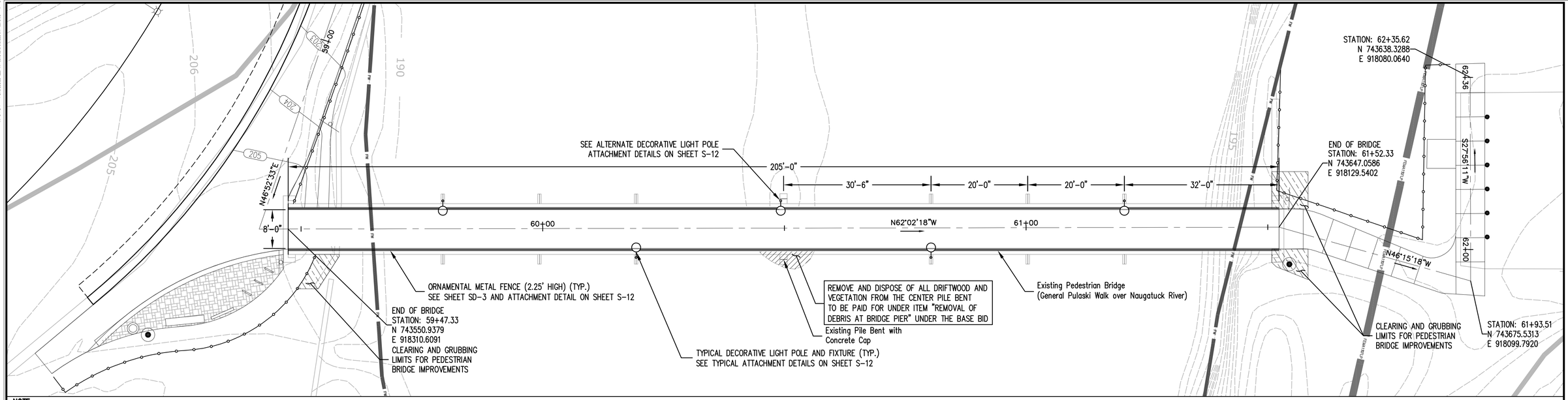
NAUGATUCK RIVER TRAIL
PHASE 1

MAPLE STREET TO BRIDGE STREET
NAUGATUCK, CONNECTICUT

FWW DESIGNED	FWW DRAWN	GDJ CHECKED
SCALE AS NOTED		
DATE JANUARY 5, 2012		
PROJECT NO. 2129-11		
SHEET NO. 40 OF 48		

S-10

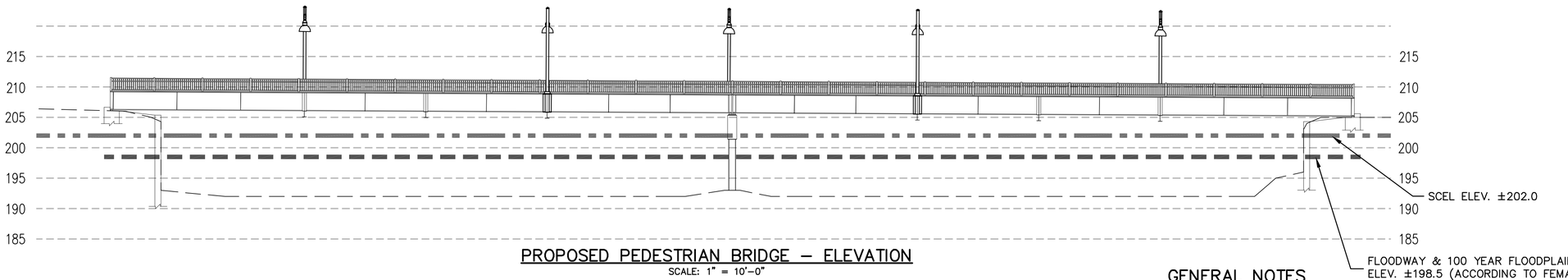
SHEET NO.



NOTE:
PROVIDE CONDUIT EXPANSION FITTINGS AT BOTH ABUTMENTS (COST TO BE INCLUDED IN THE ITEM "2" RIGID METAL CONDUIT – SURFACE)

PROPOSED PEDESTRIAN BRIDGE – LAYOUT

SCALE: 1" = 10'–0"



PROPOSED PEDESTRIAN BRIDGE – ELEVATION

SCALE: 1" = 10'–0"

QUANTITIES		
DESCRIPTION	UNIT	QUANTITY
ORNAMENTAL METAL FENCE (2.25' HIGH)	LF	410
REMOVE EXISTING BRIDGE RAIL	LF	410
DISPOSAL OF OF LEAD DEBRIS	BBL	10
STRUCTURAL STEEL (SITE NO. 1)	LS	1
LEAD HEALTH PROTECTION PROGRAM (LHPP)	LS	1
CLASS I CONTAINMENT AND COLLECTION OF SURFACE DEBRIS (SITE No. 1)	LS	1
ABRASIVE BLAST CLEANING AND FIELD PAINTING OF STRUCTURE (SITE No. 1)	LS	1
CHEMICALLY STAINED CONCRETE	SF	1850
DECORATIVE LIGHT POLE AND LIGHT FIXTURE (BRIDGE)	EA	5

NOTICE TO BRIDGE INSPECTORS	
The ConnDOT's Bridge Safety procedures require this bridge to be inspected for, but not limited to, all appropriate components indicated in the governing manuals for bridge inspection. Attention must be given to inspecting the following special components and details. (The listing for components for specific attention shall not be construed to reduce the importance of inspection of any other component of the structure.) The frequency of inspection of this structure shall be in accordance with the governing manuals for bridge inspection, unless otherwise directed by the Manager of Bridge Safety and Evaluation.	
Component or Detail	Bridge Sheet Reference
NONE	

CONSTRUCTION SEQUENCE

1. REMOVE AND DISPOSE OF ALL DRIFTWOOD AND VEGETATION FROM THE CENTER PILE BENT (TO BE PAID FOR UNDER "REMOVAL OF DEBRIS AT BRIDGE PIER").
2. REMOVE EXISTING BRIDGE RAIL.
3. CLEAN EXISTING STRUCTURE BRIDGE DECK AND SCUPPERS (TO BE PAID UNDER "CHEMICALLY STAIN CONCRETE).
4. INSTALL ALL STRUCTURAL STEEL FOR LIGHT POLE ATTACHMENTS AND ORNAMENTAL FENCE SHIM PLATE. PERFORM LOCALIZED PAINT REMOVAL ON EXISTING STEEL AS REQUIRED.
5. ERECT TEMPORARY CONTAINMENT STRUCTURE.
6. REMOVE EXISTING PAINT FROM ALL PAINTED SURFACES.
7. FIELD PAINT STEEL.
8. DISMANTLE AND REMOVE TEMPORARY CONTAINMENT STRUCTURE.
9. REGROUT ALL STEEL–TO–CONCRETE INTERFACES ALONG THE BRIDGE DECK.
10. STAIN EXISTING BRIDGE DECK.
11. INSTALL ALL DECORATIVE LIGHT POLES ON THE LIGHT POLE ATTACHMENTS.
12. INSTALL ORNAMENTAL METAL FENCE (2.25' HIGH)

HYDRAULIC DATA	
Drainage Area	216 mi^2
Design Frequency	100 Yr Storm
Design Discharge	23200 cfs
Avg. Daily Flow El. (Estimated)	189.9 ft
Design Water Surface El.	198.5 ft

CONCRETE DISTRIBUTION		
Description	Unit	Quantity
Superstructure	C.Y.	–
Substructure	C.Y.	–
Footings	C.Y.	–
Total	C.Y.	–

INSPECTION OF FIELD WELDS		
METHOD	UNIT	QUANTITY
Ultrasonic	IN	0
Magnetic Particle	LF	0

ADD ALTERNATE #3

GENERAL NOTES

SPECIFICATIONS

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816 (2004), SUPPLEMENTAL SPECIFICATIONS DATED 07/10 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (AASHTO–2008), WITH INTERIM SPECIFICATIONS UP TO AND INCLUDING 2010, AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003).

EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

STEEL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270 (ASTM A709), GRADE 50.
2. WELDING DETAILS, PROCEDURES, AND TESTING METHODS SHALL CONFORM TO THE ANSI/AASHTO/AWS D1.5–(2002) – BRIDGE WELDING CODE, UNLESS OTHERWISE NOTED ON THE PLANS.
3. MULTIPLE PASS WELDS INSPECTED BY THE MAGNETIC PARTICLE METHOD SHALL HAVE EACH PASS OR LAYER INSPECTED AND ACCEPTED BEFORE PROCEEDING TO THE NEXT PASS OR LAYER, AS DETERMINED BY THE ENGINEER.
4. STEEL SURFACES SHALL BE CLEANED AND PRIOR TO INSTALLING NEW HARDWARE.
5. PAINT SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIAL PROVISION "ABRASIVE BLAST CLEANING AND FIELD PAINTING OF STRUCTURE (SITE NO. 1)." THE COLOR OF THE TOPCOAT MATERIAL ON THE STRUCTURAL STEEL SHALL CONFORM TO FEDERAL STANDARD COLOR NO. 26329.

HIGH STRENGTH BOLTS:

1. UNLESS NOTED OTHERWISE, ALL FASTENERS SHALL BE ASTM A325 HIGH–STRENGTH BOLTS (GALVANIZED). THE NUTS SHALL BE ASTM A563 AND WASHERS SHALL BE ASTM F436.
2. ALL BOLT HOLES SHALL BE STANDARD–SIZED UNLESS OTHERWISE NOTED.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE ENGINEER AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

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REVISIONS

STRUCTURAL PLANS
PEDESTRIAN BRIDGE IMPROVEMENTS - ADD ALTERNATE #3
NAUGATUCK RIVER TRAIL
PHASE 1
MAPLE STREET TO BRIDGE STREET
NAUGATUCK, CONNECTICUT

FWW DESIGNED	FWW DRAWN	GDJ CHECKED

SCALE AS NOTED

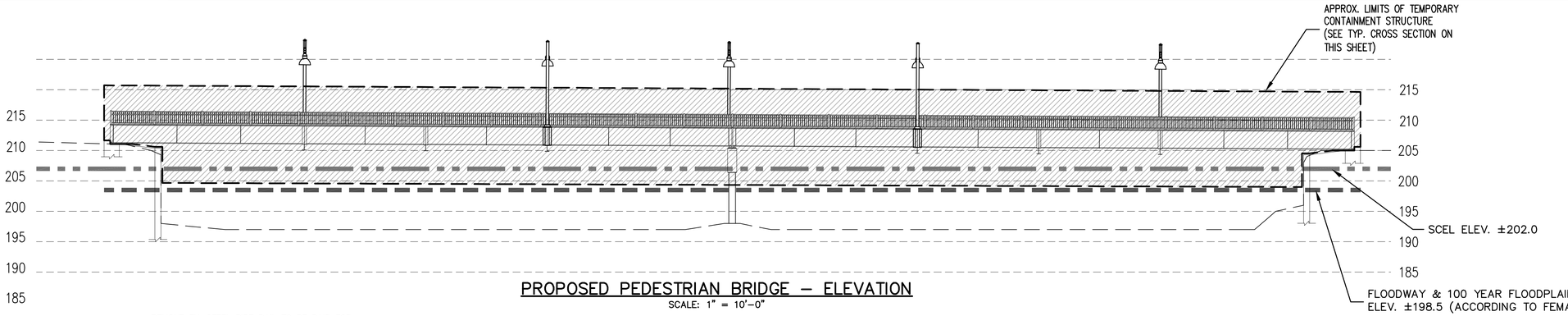
DATE JANUARY 5, 2012

PROJECT NO. 2129-11

SHEET NO. 41 OF 48

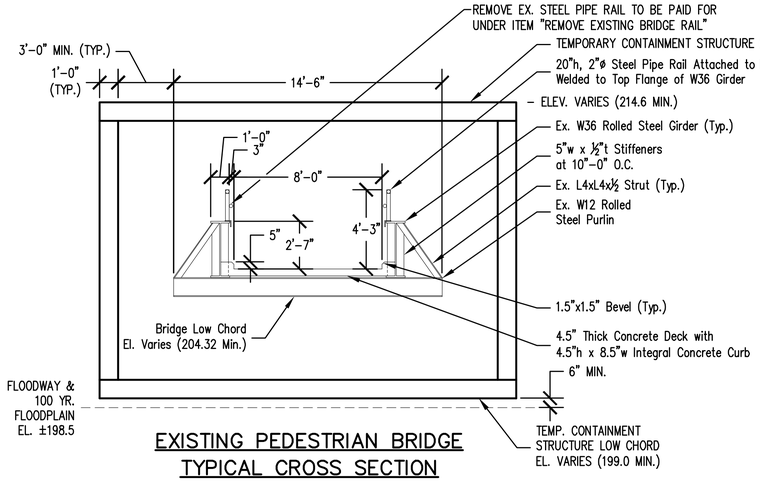
S-11

SHEET NO.



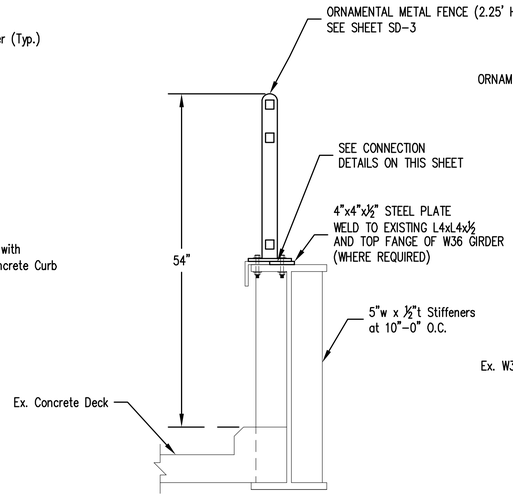
PROPOSED PEDESTRIAN BRIDGE – ELEVATION

SCALE: 1" = 10'-0"



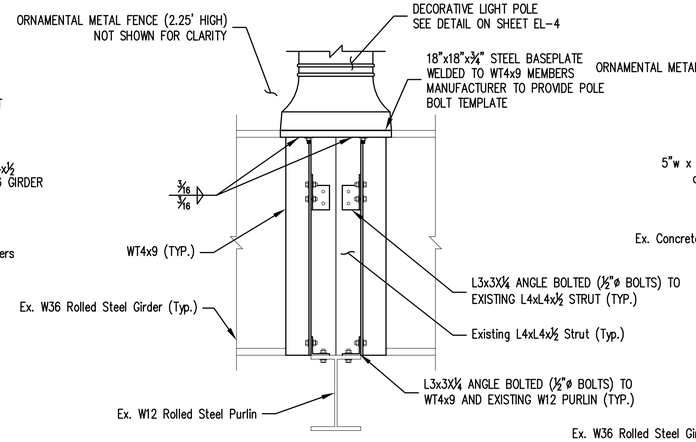
EXISTING PEDESTRIAN BRIDGE TYPICAL CROSS SECTION

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



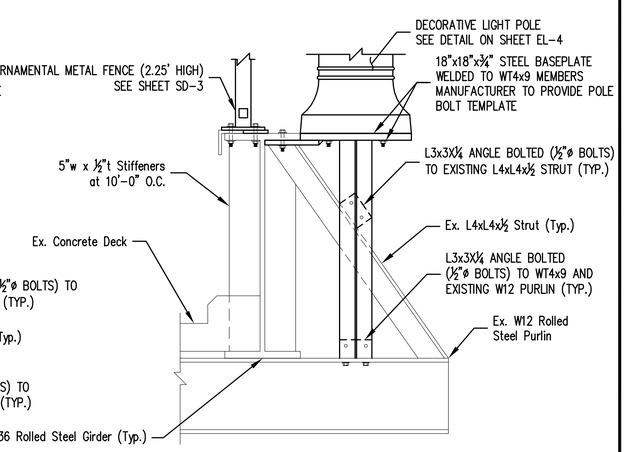
ORNAMENTAL METAL FENCE (2.25' HIGH) ATTACHMENT TYPICAL CROSS SECTION

SCALE: 1" = 1'-0"



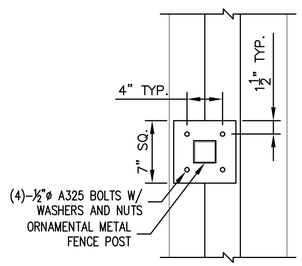
TYP. DECORATIVE LIGHT POLE ATTACHMENT ELEVATION

SCALE: 1" = 1'-0"



TYP. DECORATIVE LIGHT POLE ATTACHMENT ELEVATION

SCALE: 1" = 1'-0"



ORNAMENTAL METAL FENCE (2.25' HIGH) ATTACHMENT DETAIL

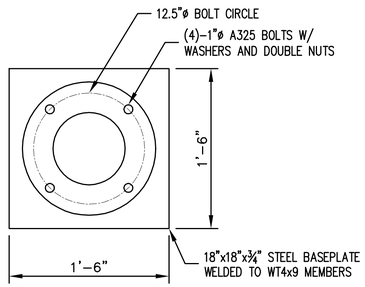
SCALE: 1 1/2" = 1'-0"

ORNAMENTAL METAL FENCE BASEPLATE

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

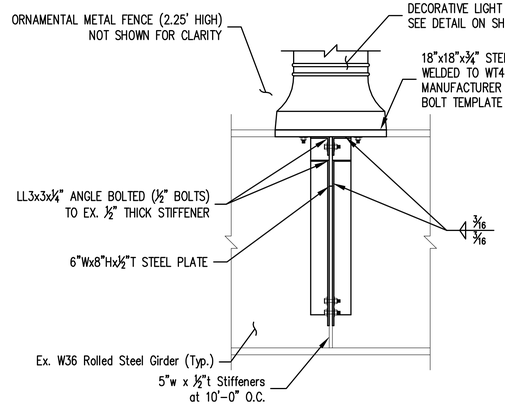
NOTES:

1. ALL EXISTING STRUCTURAL STEEL SHALL BE PREPARED AND REPAINTED TO BE PAID FOR UNDER "ABRASIVE BLAST CLEANING AND FIELD PAINTING OF STRUCTURE (SITE NO. 1)"
2. ALL PROPOSED STRUCTURAL STEEL SHALL BE ASTM A36
3. THE EXISTING CONCRETE BRIDGE DECK SHALL BE CLEANED AND STAINED
4. ALL STEEL TO CONCRETE INTERFACES ON THE BRIDGE DECK ARE TO BE REGROUTED
5. ANY SEDIMENT AND DEBRIS SHALL BE REMOVED FROM THE BRIDGE DECK DRAINAGE SCUPPERS
6. REMOVE SEDIMENT AND DEBRIS FROM ALL BEARINGS
7. REMOVE DRIFTWOOD AND VEGETATION FROM THE CENTER PILE BENT TO BE PAID FOR UNDER THE ITEM "REMOVAL OF DEBRIS AT BRIDGE PIER" OF THE BASE BID



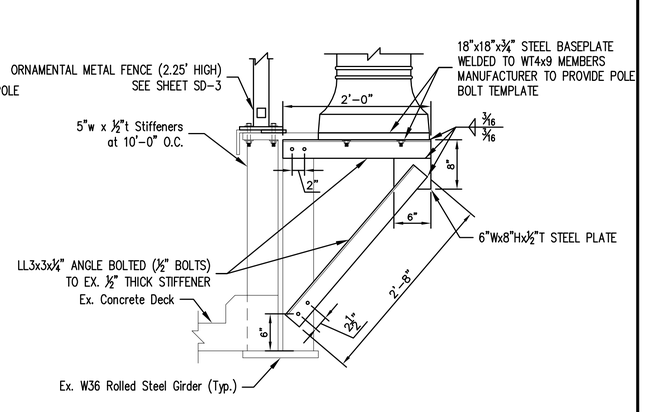
LIGHT POLE BOLT TEMPLATE

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



ALTERNATE DECORATIVE LIGHT POLE ATTACHMENT ELEVATION

SCALE: 1" = 1'-0"



ALTERNATE DECORATIVE LIGHT POLE ATTACHMENT ELEVATION

SCALE: 1" = 1'-0"

ADD ALTERNATE #3

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REVISIONS

STRUCTURAL DETAILS
PEDESTRIAN BRIDGE IMPROVEMENTS - ADD ALTERNATE #3
NAUGATUCK RIVER TRAIL
PHASE 1
MAPLE STREET TO BRIDGE STREET
NAUGATUCK, CONNECTICUT

FWW DESIGNED	FWW DRAWN	GDJ CHECKED
SCALE	AS NOTED	
DATE	JANUARY 5, 2012	
PROJECT NO.	2129-11	
SHEET NO.	42 OF 48	

S-12

SHEET NO.

GENERAL STAGE CONSTRUCTION NOTES:

1. MAINTAIN TRAFFIC OPERATIONS AT ALL TIMES IN ACCORDANCE WITH CONTRACT SPECIAL PROVISIONS SECTION 1.08 - PROSECUTION AND PROGRESS AND ITEM NO. 0971001A - MAINTENANCE AND PROTECTION OF TRAFFIC.

2. THE MAXIMUM PERMISSIBLE PAVEMENT EDGE DROP-OFF IS THREE INCHES. ALL EDGE DROP-OFFS GREATER THAN THREE INCHES SHALL BE GRADED AWAY FROM THE PAVEMENT EDGE AT A MAXIMUM PERMISSIBLE SIDE SLOPE (TRANSVERSE TO THE DIRECTION OF TRAVEL) OF ONE (VERTICAL): FOUR (HORIZONTAL), OR PROTECTED WITH AN APPROVED BARRIER SYSTEM.

3. ALL TEMPORARY PRECAST BARRIER CURB SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWING.

4. INSTALL THE APPROPRIATE TYPE DE-7 DELINEATORS ON TEMPORARY PRECAST CONCRETE BARRIER CURB AND TYPE DE-9 DELINEATOR ON FRONT BARREL OF TEMPORARY IMPACT ATTENUATOR SYSTEM IN ACCORDANCE WITH TRAFFIC STANDARD SHEET, "DELINEATION, DELINEATOR AND OBJECT MARKER DETAILS".

5. EXISTING SIGNS ARE TO BE RELOCATED AS NEEDED AND AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION SO THAT THEY ARE IN THE APPROPRIATE LOCATION AND VISIBLE TO MOTORISTS. SOME SIGNS MAY HAVE TO BE TEMPORARILY LOCATED WITHIN THE WORK AREA. THIS WORK WILL BE PAID FOR UNDER ITEM#0971001A MAINTENANCE AND PROTECTION OF TRAFFIC.

6. EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED WITHIN THE PROJECT LIMITS. BLACK LINE MASK PAVEMENT MARKING TAPE SHALL BE USED TO COVER EXISTING CONFLICTING PAVEMENT MARKINGS OUTSIDE OF THE LIMITS. CONFLICTING MARKINGS TO BE COVERED OR REMOVED INCLUDES THOSE OUTSIDE THE TRAVELWAY.

7. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE HOT-APPLIED PAINTED PAVEMENT MARKINGS WITHIN THE PROJECT LIMITS. ANY MARKINGS OUTSIDE OF THE LIMITS SHALL BE TEMPORARY PLASTIC PAVEMENT MARKING TAPE. ANY PAVEMENT MARKINGS TO EXTEND THROUGH THE WINTER SHALL BE EPOXY RESIN.

8. SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.

9. REFER TO THE APPLICABLE CONSTRUCTION TRAFFIC CONTROL PLANS CONTAINED IN THE SPECIAL PROVISION FOR MAINTENANCE AND PROTECTION OF TRAFFIC FOR ADDITIONAL NOTES.

10. EXISTING SIGNS THAT CONFLICT WITH TEMPORARY STAGE CONSTRUCTION SIGNS SHALL BE REMOVED OR COVERED AS DIRECTED BY THE ENGINEER.

11. SERIES 16 SIGNS SHALL BE INSTALLED IN ADVANCE OF THE TRAFFIC CONTROL PATTERNS. THE EXACT LOCATION OF THE SIGNS SHALL BE VERIFIED BY THE ENGINEER.

12. BARRICADE WARNING LIGHTS - HIGH INTENSITY SHALL BE INSTALLED ON ALL POST-MOUNTED, DIAMOND SHAPED CONSTRUCTION SIGNS.

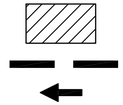
13. THE LOCATIONS OF TEMPORARY SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET FIELD CONDITIONS.

14. THE LOCATIONS OF TRAFFIC DRUMS AND TYPE III CONSTRUCTION BARRICADES SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET FIELD CONDITIONS AND TO CLEARLY DEFINE ACCESS TO AND EGRESS FROM ALL ROADWAYS AND DRIVEWAYS.

15. ANY INCOMPLETE DRAINAGE RUNS THAT OCCUR AS A RESULT OF STAGE CONSTRUCTION SHALL BE TEMPORARILY CAPPED AND PROTECTED FROM DAMAGE UNTIL THE DRAINAGE RUN IS COMPLETED IN FUTURE STAGES, THERE WILL BE NO SEPARATE PAYMENT FOR THIS WORK.

16. CONTRACTOR SHALL NOTIFY STATE, TOWN AND EMERGENCY SERVICES AT LEAST 14 DAYS IN ADVANCE OF ROAD CLOSURE/DETOUR.

LEGEND



UNDER CONSTRUCTION

TEMPORARY PRECAST CONCRETE BARRIER CURB

DIRECTION OF TRAVEL

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REVISIONS

MAINTENANCE & PROTECTION OF TRAFFIC PLAN

NAUGATUCK RIVER TRAIL
PHASE 1

MAPLE STREET TO BRIDGE STREET
NAUGATUCK, CONNECTICUT

GJ	SMB	--
DESIGNED	DRAWN	CHECKED

SCALE NONE

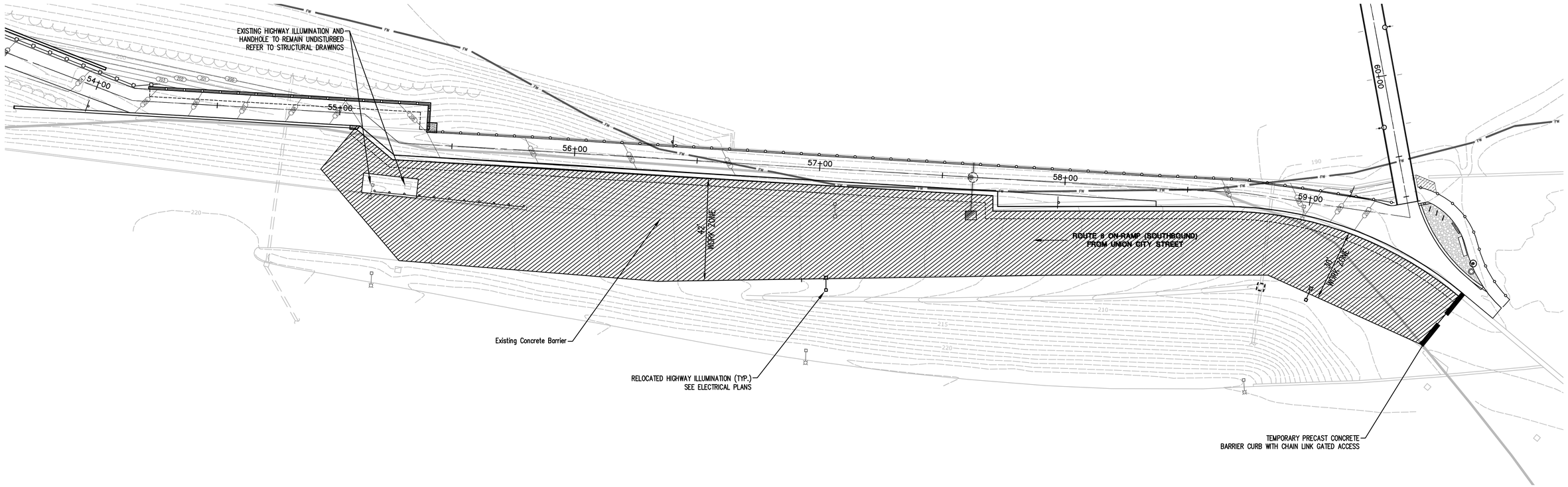
DATE JANUARY 5, 2012

PROJECT NO. 2129-11

SHEET NO. 43 OF 48

MPT1

SHEET NO.



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REVISIONS

MAINTENANCE & PROTECTION OF TRAFFIC PLAN

NAUGATUCK RIVER TRAIL
PHASE 1

MAPLE STREET TO BRIDGE STREET
NAUGATUCK, CONNECTICUT

GJ	SMB	--
DESIGNED	DRAWN	CHECKED

SCALE 1"=20'

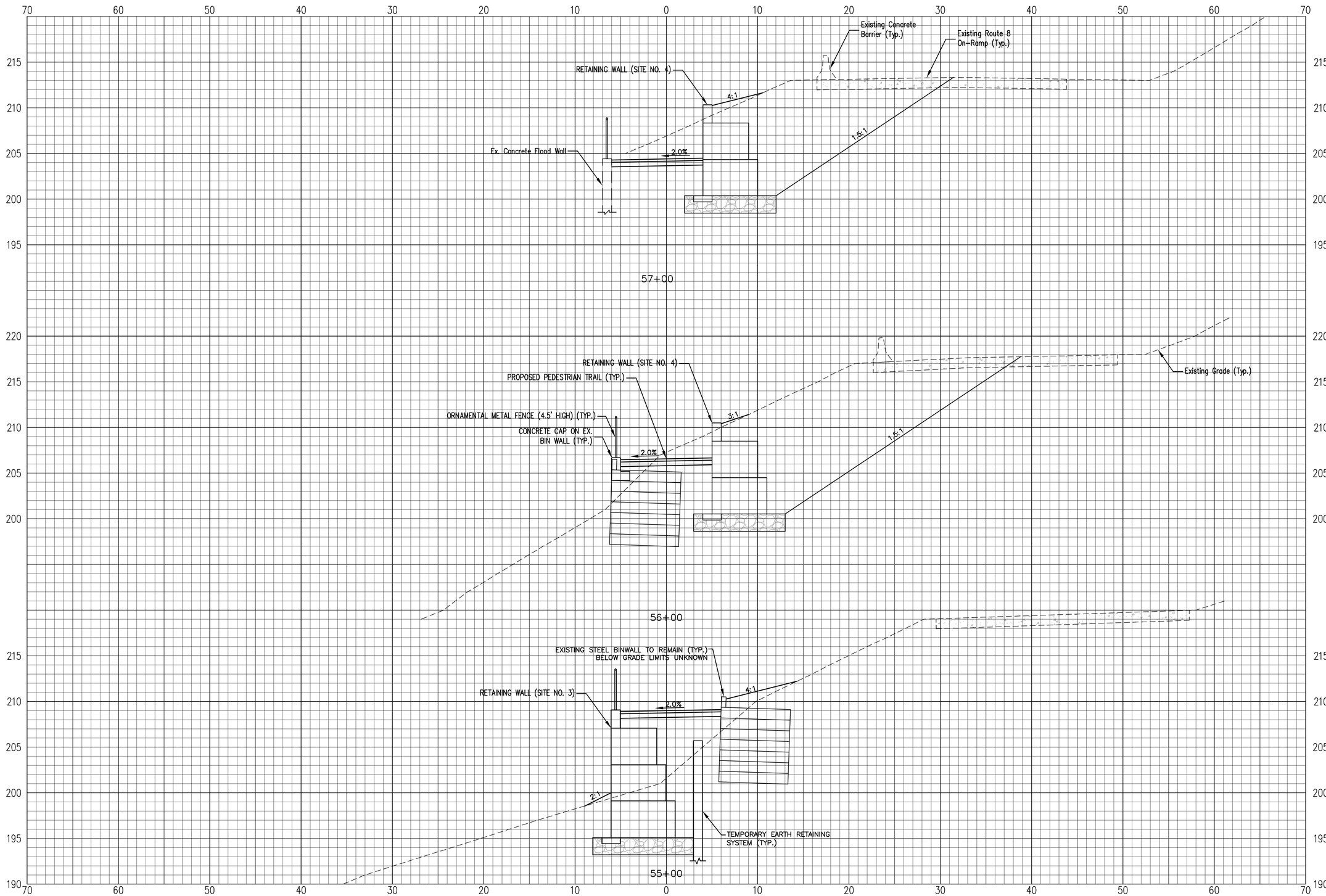
DATE JANUARY 5, 2012

PROJECT NO. 2129-11

SHEET NO. 44 OF 48

MPT2

SHEET NO.



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REVISIONS

MAINTENANCE & PROTECTION OF TRAFFIC SECTIONS

NAUGATUCK RIVER TRAIL
PHASE 1

MAPLE STREET TO BRIDGE STREET
NAUGATUCK, CONNECTICUT

GJ	SMB	--
DESIGNED	DRAWN	CHECKED

SCALE 1" = 5'-0"

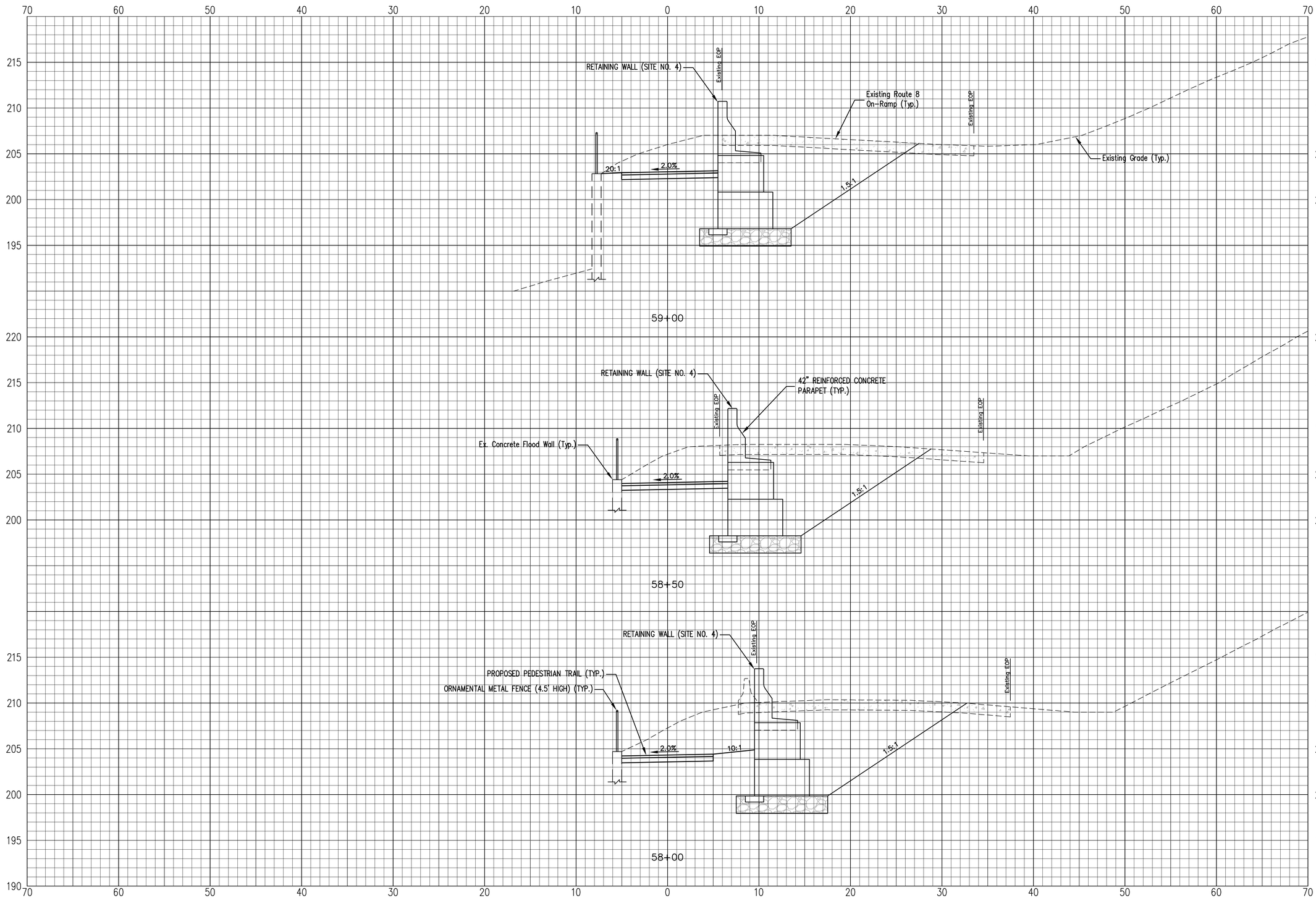
DATE JANUARY 5, 2012

PROJECT NO. 2129-11

SHEET NO. 45 OF 48

MPT3

SHEET NO.



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REVISIONS

MAINTENANCE & PROTECTION OF TRAFFIC SECTIONS

NAUGATUCK RIVER TRAIL
PHASE 1

MAPLE STREET TO BRIDGE STREET
NAUGATUCK, CONNECTICUT

GJ	SMB	--
DESIGNED	DRAWN	CHECKED

SCALE 1" = 5'-0"

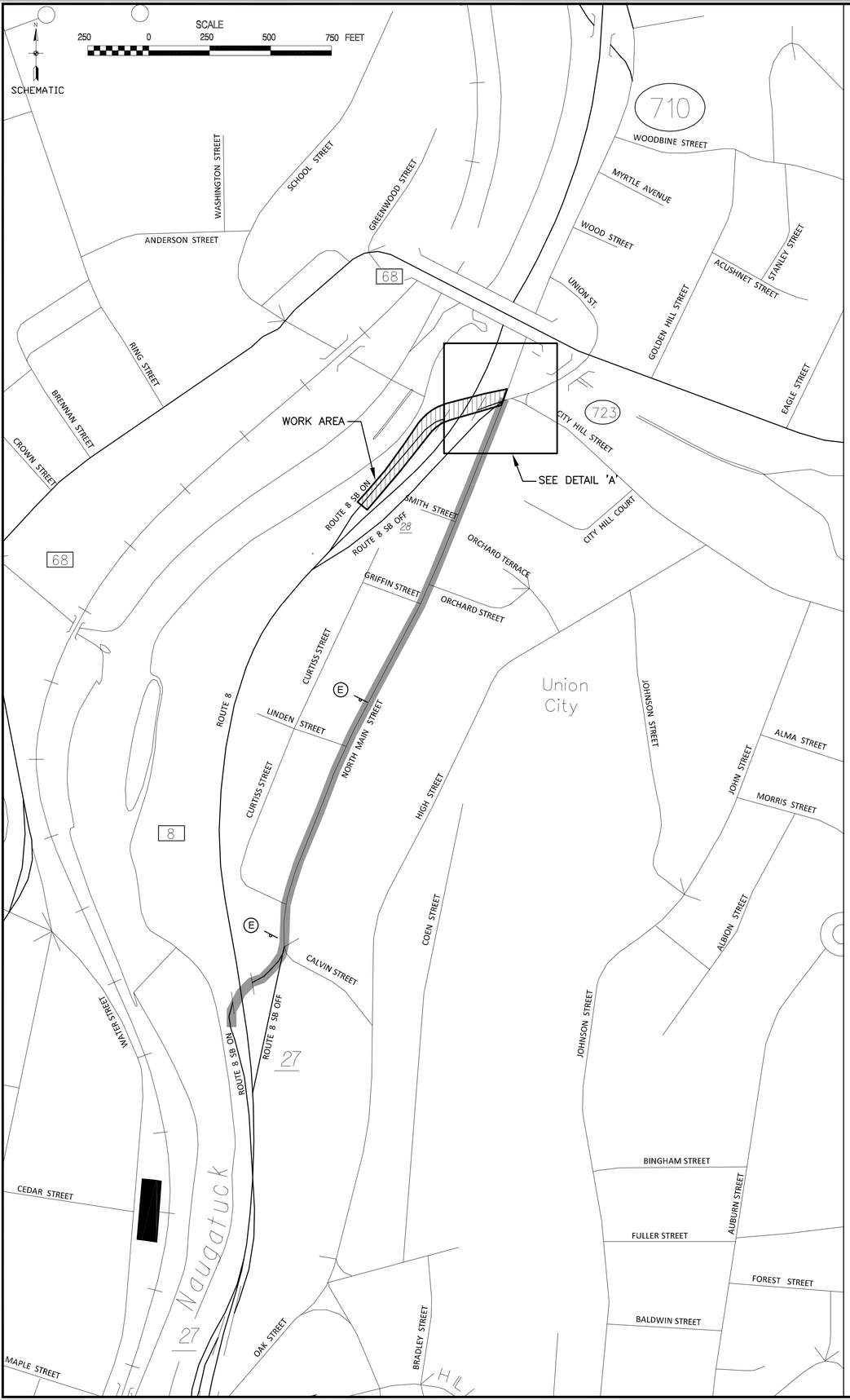
DATE JANUARY 5, 2012

PROJECT NO. 2129-11

SHEET NO. 46 OF 48

MPT4

SHEET NO.



LEGEND

(A) 80–9603 (B) 31–0557 (C) 80–9701R (D) 80–9702L

(E) 80–9710 (F) 80–9080 (G) XX–XXXX

DETOUR ROUTE

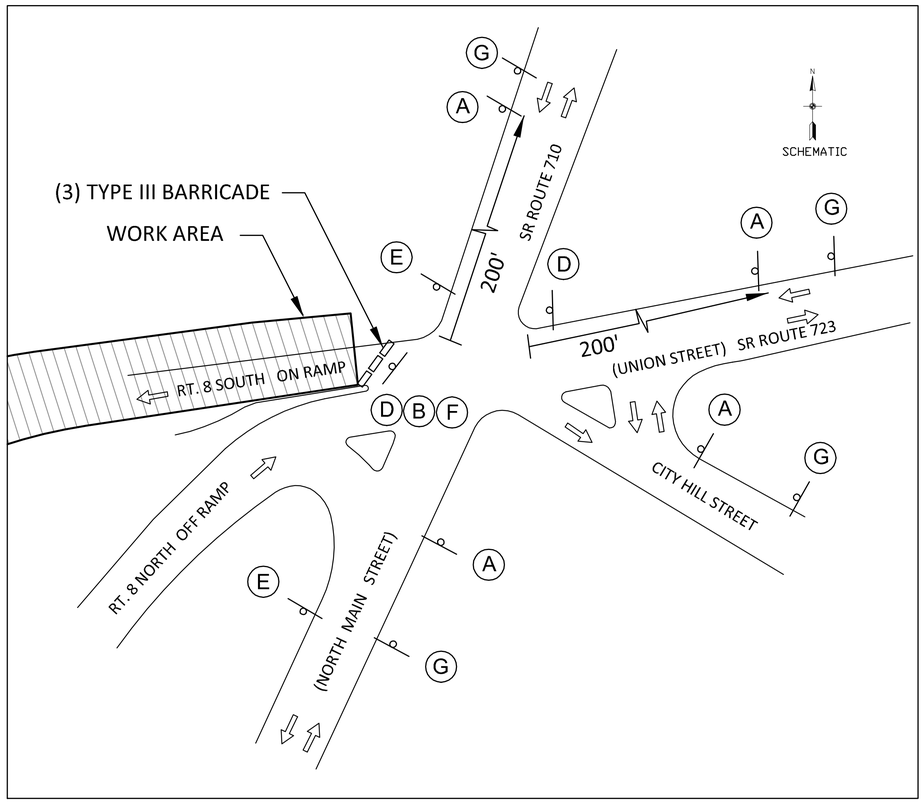
TYPE III BARRICADE

DRUM/CONE

TEMP. SIGN

NOTES:

INSTALL SIGNS AS SHOWN



DETAIL 'A'
NOT TO SCALE

CONSTRUCTION DRAWINGS

DETOUR PLAN

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87–143
FEDERAL PROJECT NO. PEDS(090)

MTD DESIGNED	MTD DRAWN	MRA CHECKED
SCALE AS SHOWN		
DATE JANUARY 5, 2012		

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PROJECT NO. 2129-11

D-1

SHEET NO. 47 OF 48

LEGEND

Ⓐ 80-9703
VARIABLE ARROW

Ⓑ 80-9706

Ⓒ 80-9076

Ⓓ 80-9829A

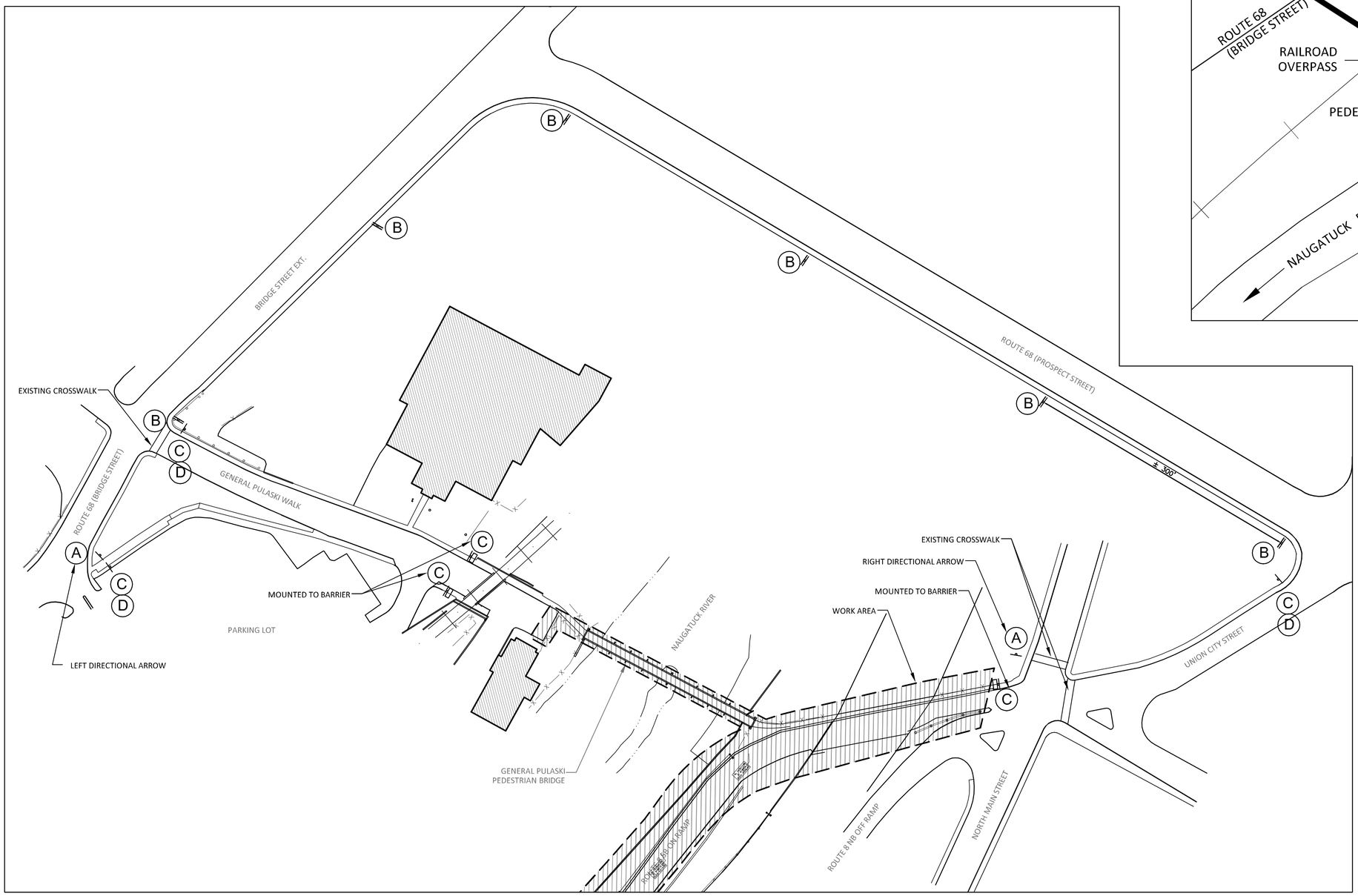
DETOUR ROUTE

TYPE III BARRICADE

TEMP. SIGN

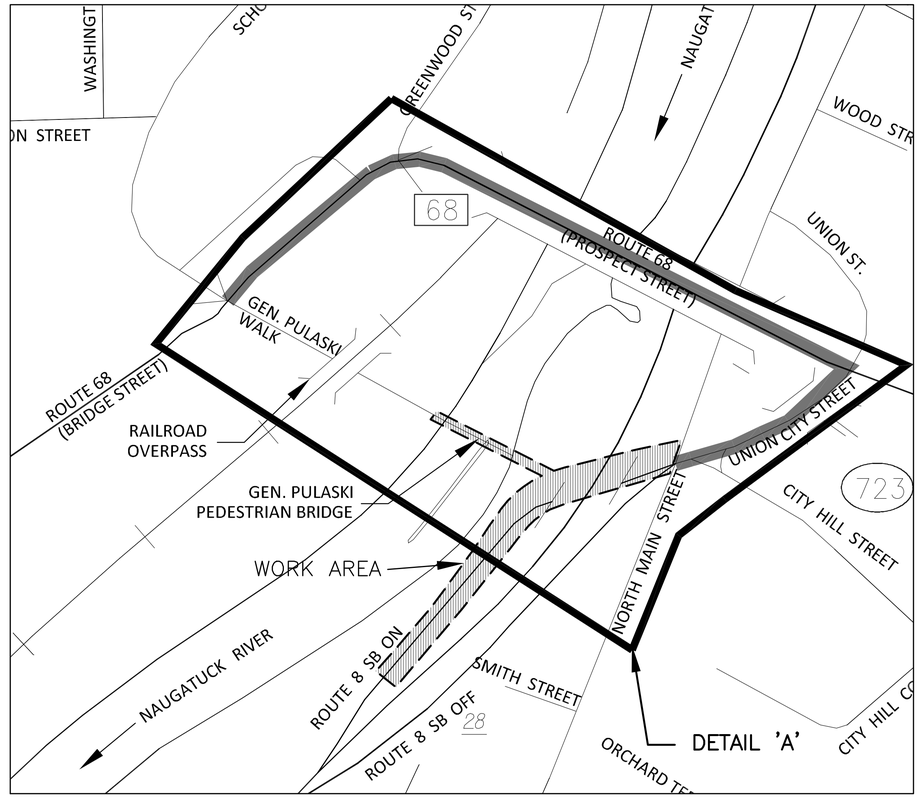
NOTES:

1. ***INSTALL SIGNS AS SHOWN***
2. ***WHERE PEDESTRIAN DETOUR SIGN "B" IS SHOWN MOUNT TWO SIGNS FRONT TO BACK ON EACH POLE AS SHOWN.***



PEDESTRIAN DETOUR DETAIL 'A'
SCALE: 1"=60'

SCALE
60 0 60 120 180 FEET



PEDESTRIAN DETOUR ROUTE
SCALE: 1"=150'

SCALE
150 0 150 300 450 FEET

CONSTRUCTION DRAWINGS

DETOUR PLAN - PEDESTRIAN

NAUGATUCK PEDESTRIAN GREENWAY PHASE 1

MAPLE STREET TO GEN. PULASKI WALK
NAUGATUCK, CONNECTICUT

STATE PROJECT NO. 87-143
FEDERAL PROJECT NO. PEDS(090)

MTD DESIGNED	MTD DRAWN	MRA CHECKED
SCALE AS SHOWN		
DATE JANUARY 5, 2012		

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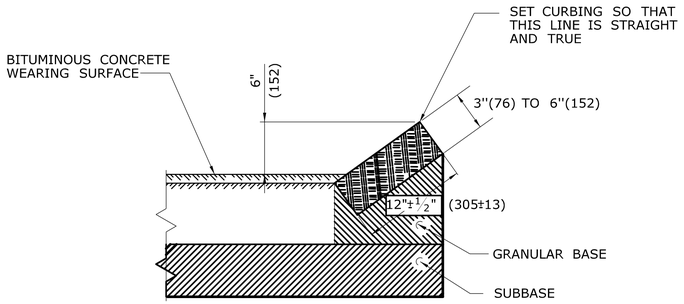
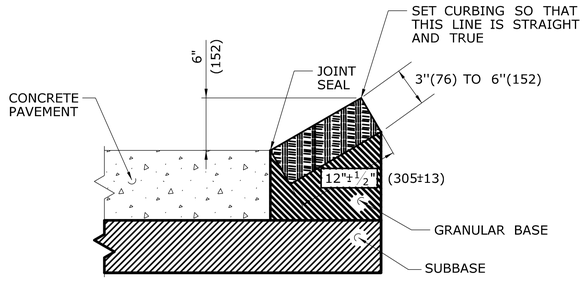
2129-11 PROJECT NO.

D-2 SHEET NO. 48 OF 48



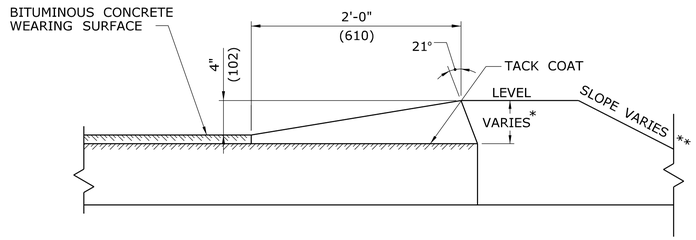
TYPICAL SECTION SHOWING SLOPE CURBING SET ADJACENT TO BITUMINOUS CONCRETE SURFACES



TYPICAL SECTION SHOWING SLOPE CURBING SET ADJACENT TO CONCRETE SURFACES

NOTE:

1. ALL CONSTRUCTION DIMENSIONS ARE NOMINAL.



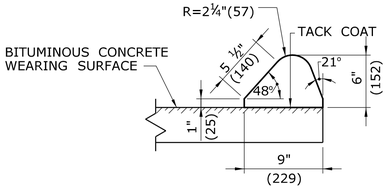
* THIS DIMENSION VARIES WITH THE THICKNESS OF THE TOP COURSE AND SLOPE OF SHOULDER.

** SEE TYPICAL SECTIONS FOR PROJECT. IN FILL AREAS 2'(610) LEVEL BEHIND THE CURB IS REQUIRED.

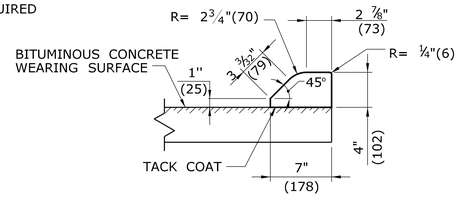
BITUMINOUS CONCRETE BERM

GRANITE SLOPE CURBING

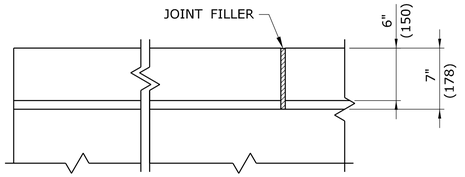
½"(13) MORTAR JOINT REQUIRED



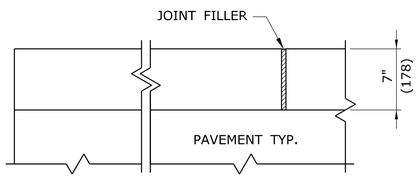
6"(150) BITUMINOUS CONCRETE LIP CURBING



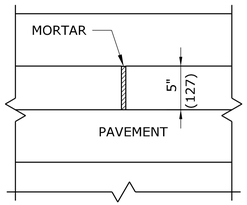
4"(100) BITUMINOUS CONCRETE PARK CURBING



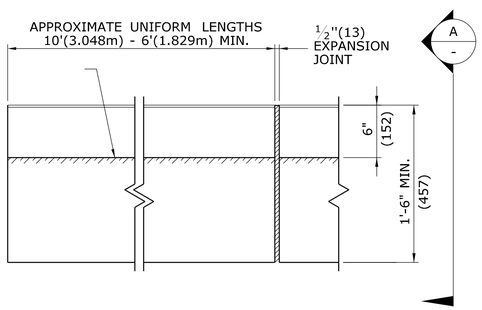
PLAN



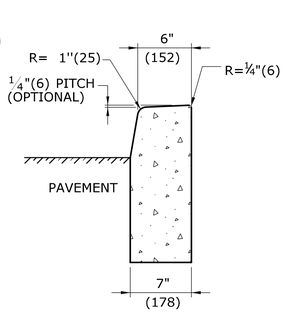
PLAN



PLAN

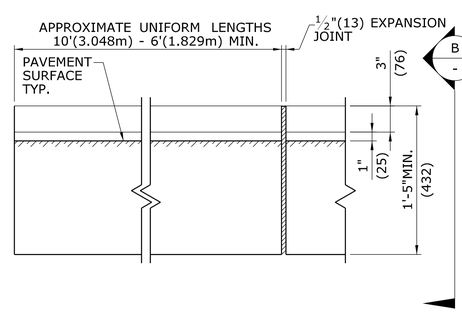


ELEVATION

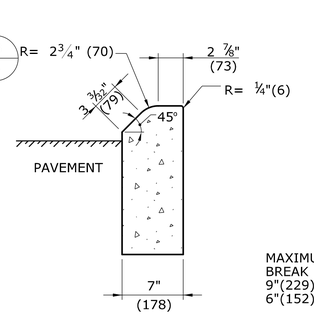


SECTION A -

6" (150) CONCRETE CURBING

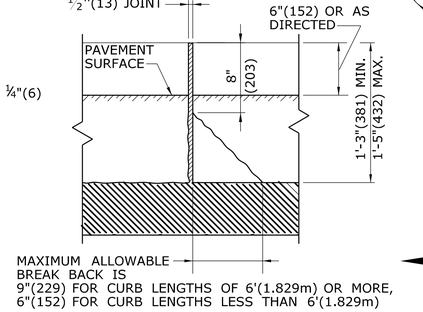


ELEVATION

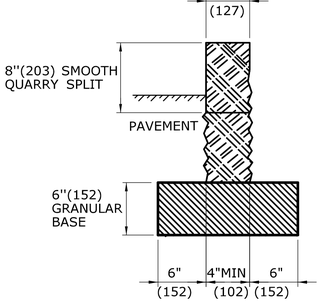


SECTION B -

4"(100) CONCRETE PARK CURBING



ELEVATION



SECTION C -

STONE CURBING

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

REV.	DATE	REVISION DESCRIPTION
-	-	-
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1	6/01/10	REVISED TItLE FOR 6" CONC. CURB

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 5/21/2010

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD.dgn Model: HW-811_01

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

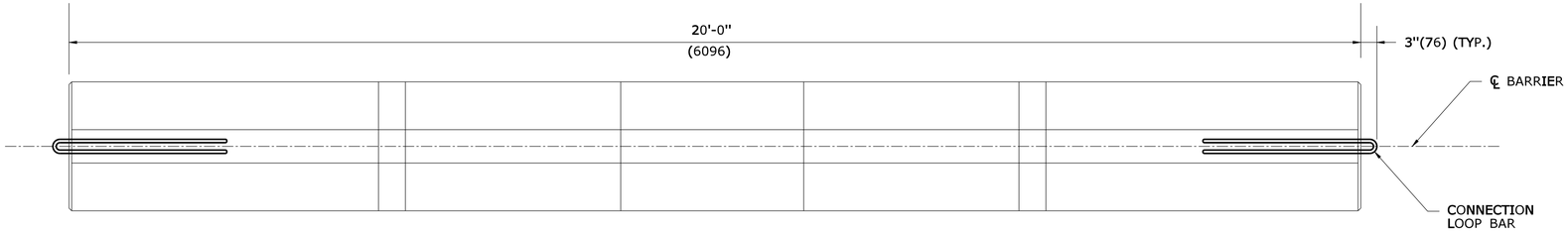
OFFICE OF ENGINEERING

STANDARD SHEET TITLE: **CURBING**

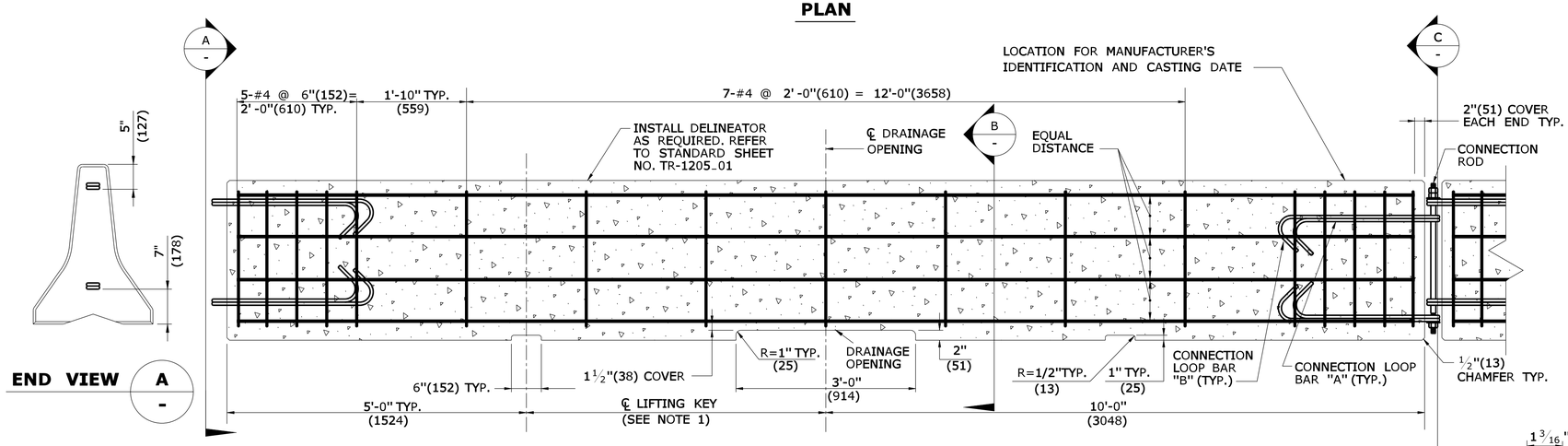
STANDARD SHEET NO.: **HW-811_01**

GENERAL NOTES:

1. ALTERNATE DESIGNS FOR LIFTING KEYS, HOLES OR OTHER HANDLING DEVICES MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. MATERIALS SHALL CONFORM TO THE DEPARTMENT'S STANDARD SPECIFICATIONS AND SUPPLEMENTALS.

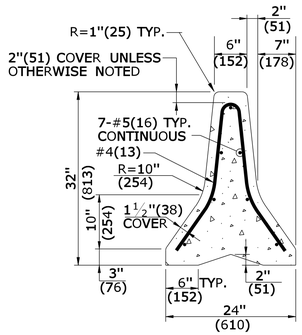


PLAN

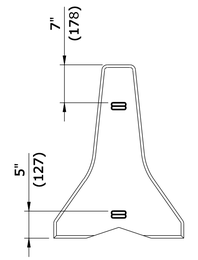


END VIEW A -

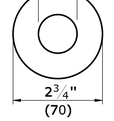
ELEVATION



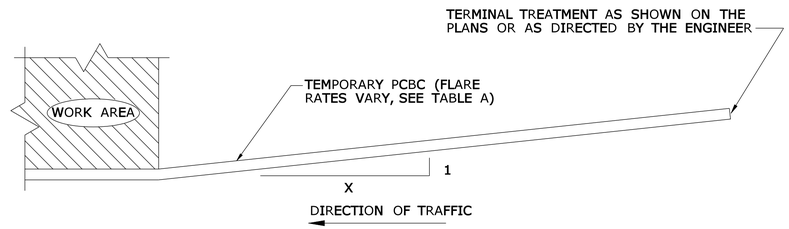
SECTION B -



END VIEW C -



WASHER DETAIL



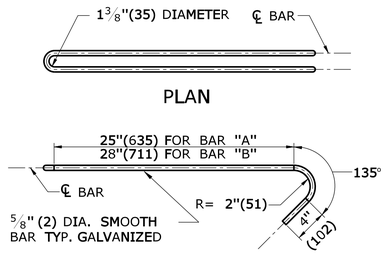
PLAN - TYPICAL INSTALLATION

TABLE A

FLARE RATES

* SPEED	FLARE RATE (X : 1)
≤ 30MPH(48KPH)	4 : 1
> 30MPH(48KPH) <45MPH(72KPH)	6 : 1
≥ 45MPH(72KPH) NON-LIMITED ACCESS HIGHWAYS	8 : 1
ALL LIMITED ACCESS HIGHWAYS	10 : 1

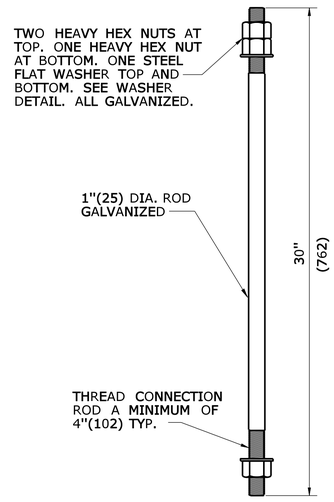
* DESIGN SPEED THROUGH THE WORK AREA.



ELEVATION

BAR "A" = 6'-0"(1829) TOTAL
BAR "B" = 6'-6"(1981) TOTAL

CONNECTION LOOP BAR



CONNECTION ROD

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

REV.	DATE	REVISION DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
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Plotted Date: 9/11/2009

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD.dgn Model: HW-822_01

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

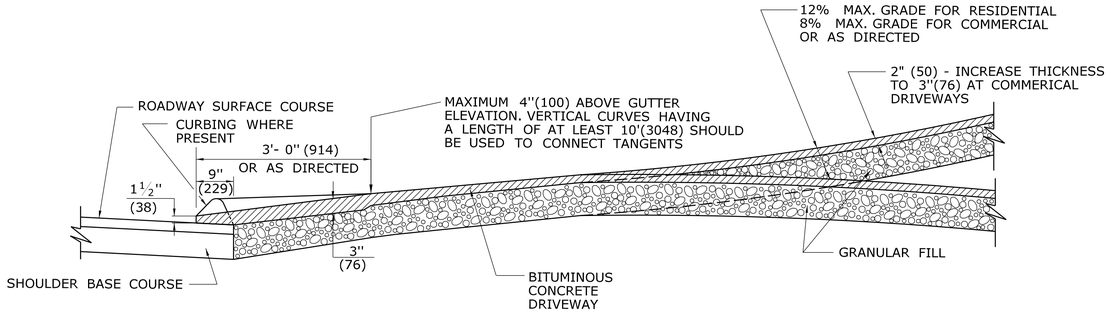
TEMPORARY PRECAST CONCRETE BARRIER CURB

STANDARD SHEET NO.:

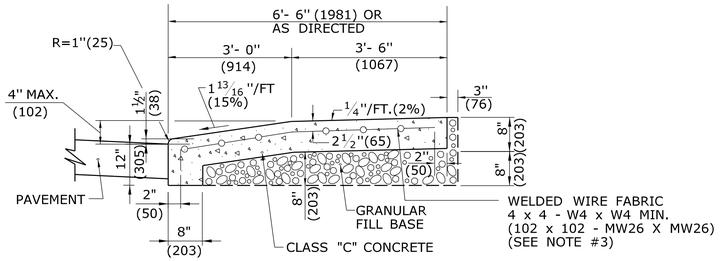
HW-822_01

GENERAL NOTES:

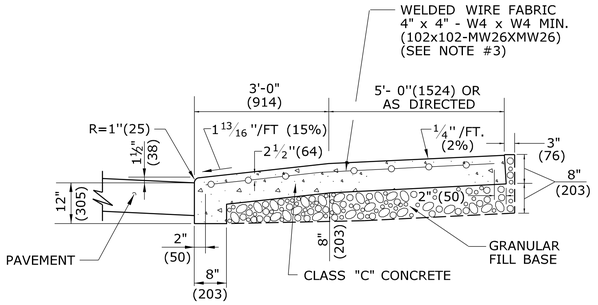
1. DRIVEWAY ENTRANCE SHALL BE A MINIMUM OF 12' (3658) WIDE, EXCLUDING CURBING WHEN PRESENT.
2. SIDEWALK RAMPS SHALL BE A MINIMUM OF 36" (914) TO 40" (1016) MAXIMUM, WITH A MAXIMUM SLOPE OF 12:1. THERE SHALL BE NO LIP AT THE DRIVEWAY SIDEWALK INTERFACE.
3. WELDED WIRE FABRIC MATS WITH REINFORCING AT CLOSER SPACING MAY BE USED.



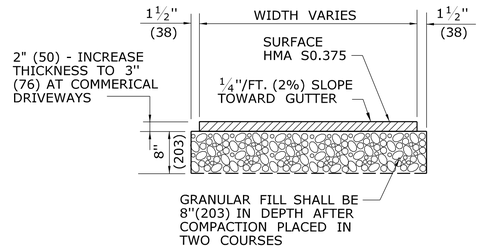
SECTION A



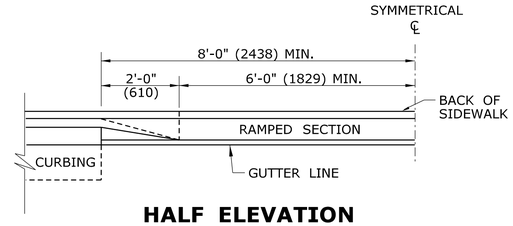
SECTION B



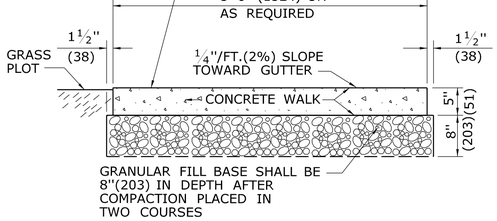
SECTION C



TYPICAL SECTION BITUMINOUS CONCRETE SIDEWALK AND DRIVE

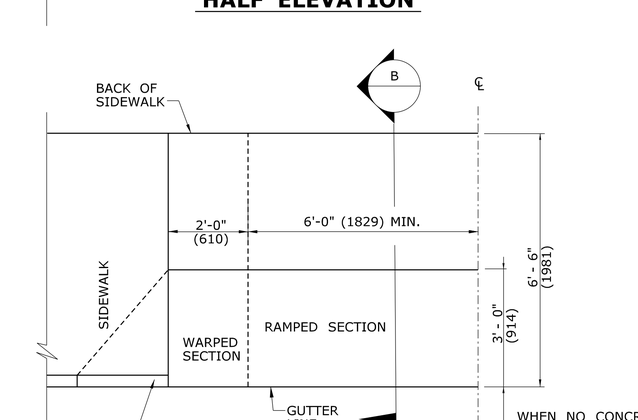


HALF ELEVATION

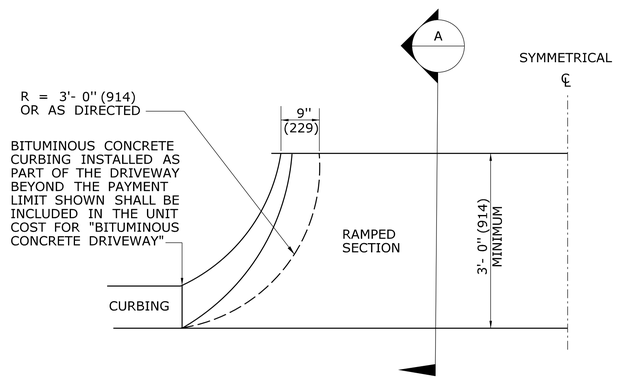


SECTION D

5' (1524) WIDE CONCRETE SIDEWALK WITH GRASS PLOT

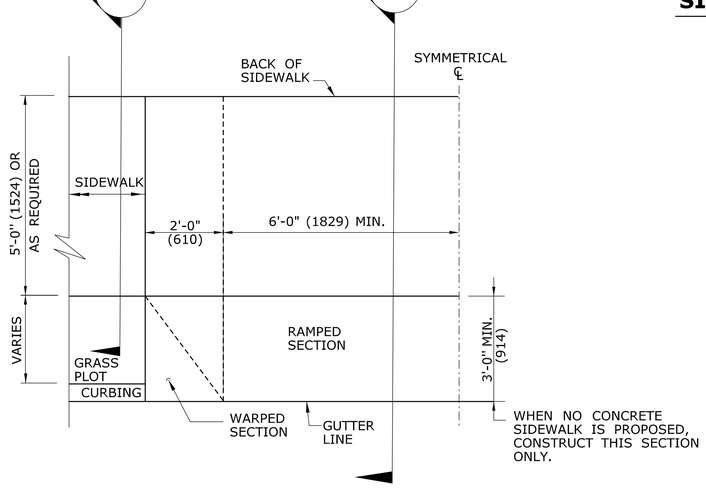


HALF ELEVATION



HALF BITUMINOUS CONCRETE DRIVEWAY PLAN

HALF PLAN OF CONCRETE DRIVEWAY RAMP WHERE SIDEWALK ADJOINS CURBING



HALF PLAN OF CONCRETE DRIVEWAY RAMP WHERE CURB IS SEPARATED FROM SIDEWALK BY GRASS PLOT

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

REV.	DATE	REVISION DESCRIPTION
1	6/01/10	REVISED BORDER TITLE
2	6/01/10	REVISED HALF ELEVATION DETAILS
-	-	-
-	-	-
-	-	-
-	-	-

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Plotted Date: 5/21/2010

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD.dgn Model: HW-921_01

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

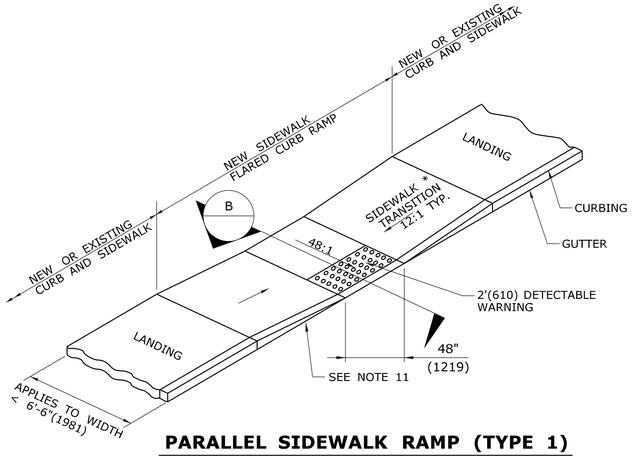
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

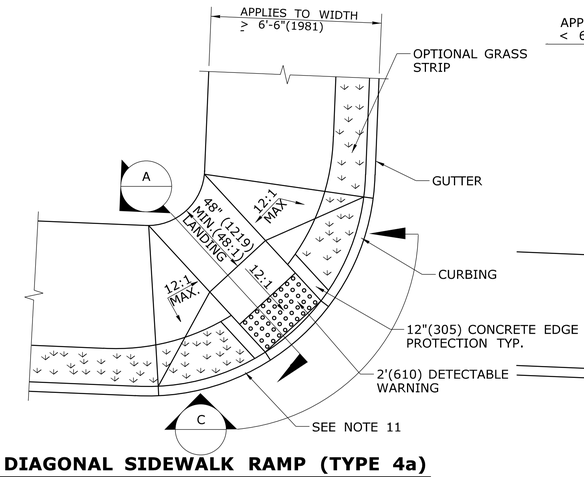
DRIVEWAY RAMPS AND SIDEWALKS

STANDARD SHEET NO.:

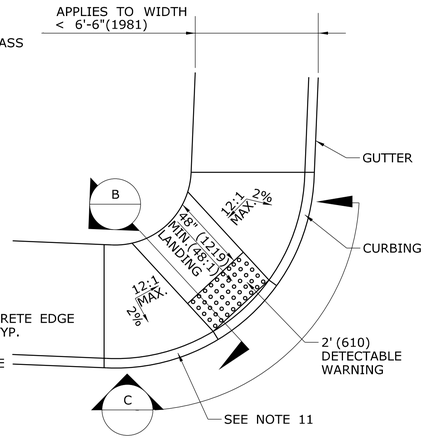
HW-921_01



PARALLEL SIDEWALK RAMP (TYPE 1)



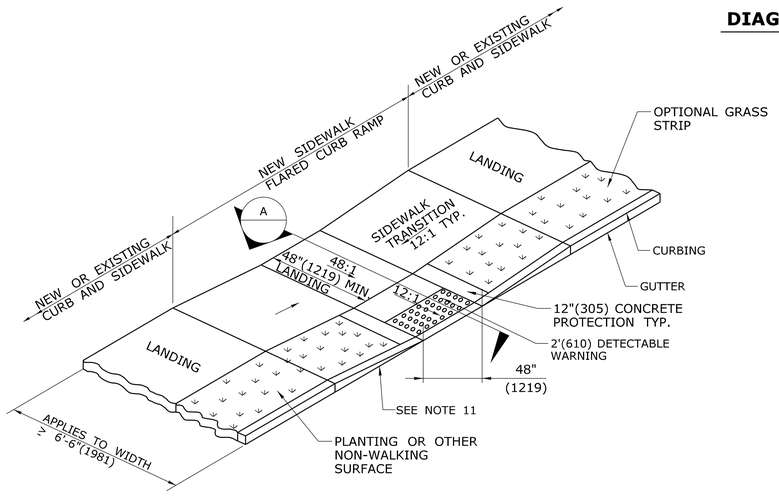
DIAGONAL SIDEWALK RAMP (TYPE 4a)



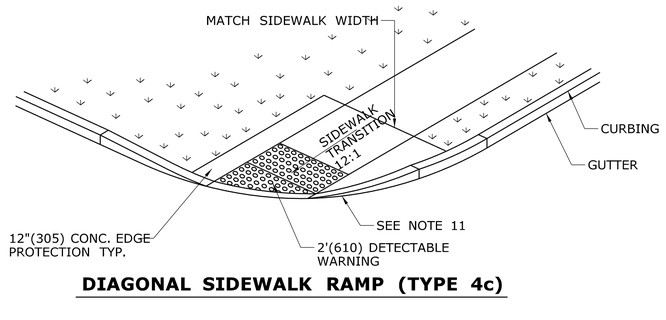
DIAGONAL/PARALLEL SIDEWALK RAMP (TYPE 4b)

GENERAL NOTES:

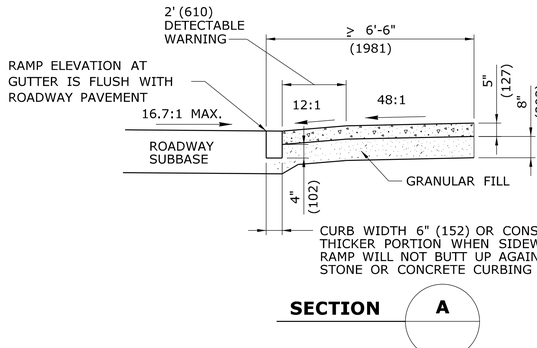
1. MAXIMUM SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE SIDEWALK RAMP OR ACCESSIBLE ROUTE SHOULD NOT EXCEED 20:1.
2. CARE SHALL BE TAKEN TO ASSURE UNIFORM GRADE ON THE RAMP, FREE OF SAGS AND ABRUPT GRADE CHANGES.
3. ALL RAMPS SHALL BE CONSTRUCTED OF CLASS "C" CONCRETE IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS ARTICLE M.03.01.
4. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
5. DIAGONAL SIDEWALK RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.
6. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION / CONTRACTION JOINT OR DUMMY JOINT. 12:1 MAY NOT BE ACHIEVABLE DUE TO SIDEWALK GRADE. IN RECOGNITION OF THIS, A MINIMUM LIMIT OF 15' (4.57m) FOR A PARALLEL RAMP SHALL BE USED. REMOVAL SHALL NOT BE FURTHER THAN 2' (610) FROM THE PROPOSED RAMP UNLESS DIRECTED BY THE ENGINEER. SAW CUT REQUIRED FOR DUMMY JOINTS SHALL BE INCLUDED IN THE COST OF "CONCRETE SIDEWALK".
7. EXPANSION JOINTS IN CONCRETE SHALL MATCH THOSE IN ADJACENT SIDEWALKS BUT IN NO CASE SHALL THE SPACING BETWEEN EXPANSION JOINTS EXCEED 12' (3.66m) UNLESS OTHERWISE NOTED.
8. RAISED MEDIAN ISLANDS IN MARKED CROSSINGS SHALL HAVE SIDEWALK RAMPS AT BOTH SIDES AND A LEVEL AREA AT LEAST 4' (1219) LONG BETWEEN THE RAMPS. IF THIS CAN NOT BE ACHIEVED, THE RAISED ISLAND SHALL BE CUT THROUGH LEVEL WITH THE ROADWAY AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
9. SIDEWALK RAMPS, WHEN CONSTRUCTED IN CONJUNCTION WITH SIDEWALK, SHALL BE PAID FOR UNDER THE ITEM "CONCRETE SIDEWALK", INCLUDING CURBING WITHIN THE LIMITS OF THE NEW SIDEWALK RAMP AND DETECTABLE WARNING STRIPS.WHEN JUST A SIDEWALK RAMP IS CONSTRUCTED, IT SHALL BE PAID FOR UNDER THE ITEM "SIDEWALK RAMP" INCLUDING CURBING WITHIN THE LIMITS OF THE NEW SIDEWALK AND DETECTABLE WARNING STRIP.
10. CURBING WITHIN THE LIMITS OF THE NEW SIDEWALK RAMP SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS OF FORM 816 SECTIONS 8.11 AND 8.13.
11. TRANSITION TO FULL HEIGHT CURB. INSTALL STONE CURBING IF ADJACENT CURBING IS STONE. INSTALL CONCRETE CURBING IF ADJACENT CURBING IS CONCRETE OR BITUMINOUS.
12. INSTALL THE EDGE OF THE DETECTABLE WARNING STRIP 6" (152) FROM THE EDGE OF ROAD.
13. TO PERMIT WHEELCHAIR WHEELS TO ROLL BETWEEN DOMES, ALIGN DOMES ON A SQUARE GRID IN THE DIRECTION OF PEDESTRIAN TRAVEL.



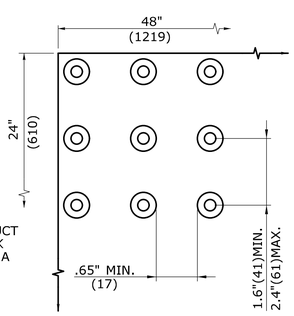
PERPENDICULAR SIDEWALK RAMP (TYPE 2)



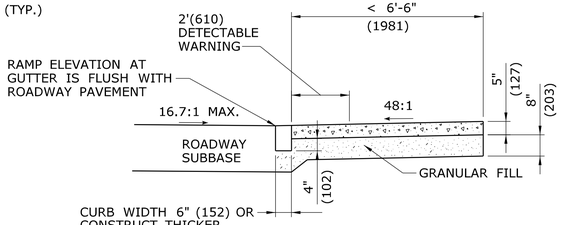
DIAGONAL SIDEWALK RAMP (TYPE 4c)



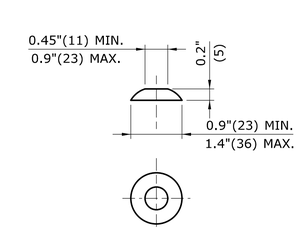
SECTION A



DOME SPACING

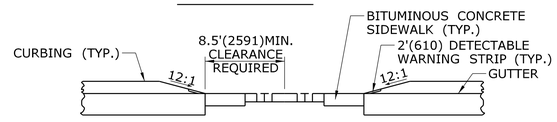


SECTION B



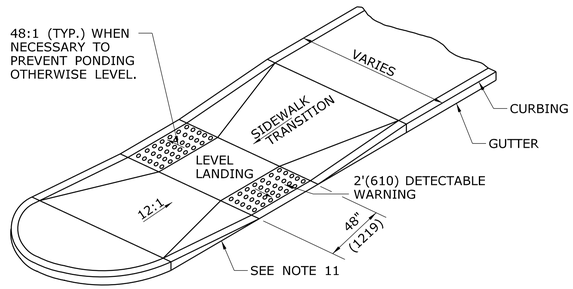
DOME SECTION

PLAN VIEW



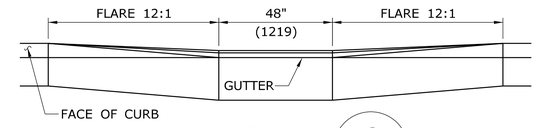
ELEVATION VIEW

DETECTABLE WARNINGS AT RAILROAD CROSSING



DETECTABLE WARNINGS AT MEDIAN ISLAND

SEE NOTE 8



SECTION C

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

REV.	DATE	REVISION DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
1	10/10	Revised Note 4 and removed note 11

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Plotted Date: 10/8/2010

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD.dgn Model: 68 - HW-921_02

SUBMITTED BY: NAME/DATE/TIME:

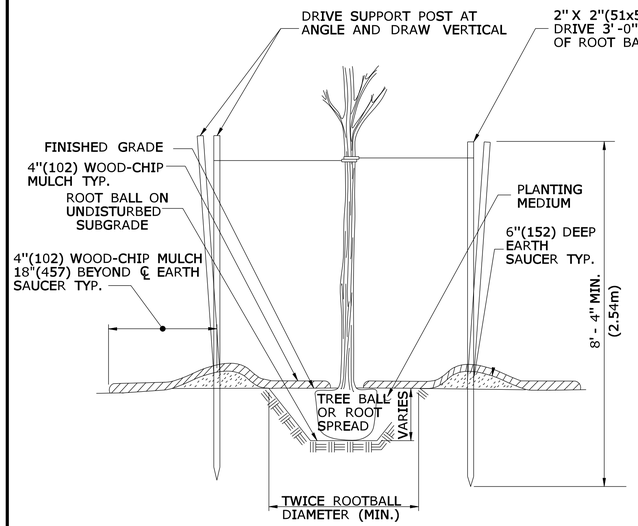
APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

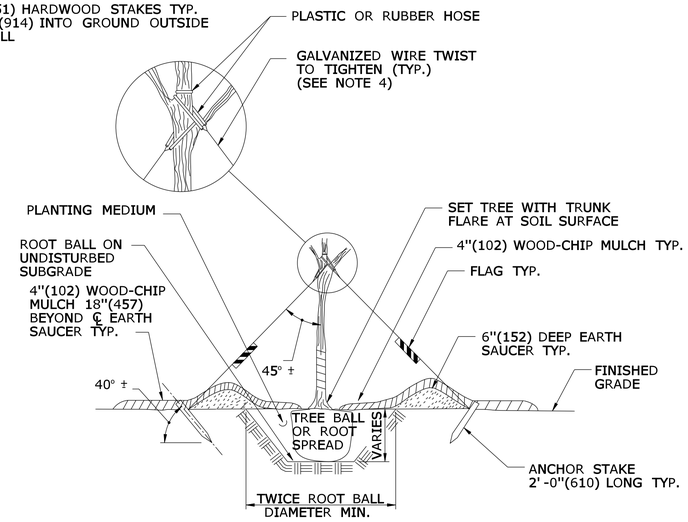
OFFICE OF ENGINEERING

STANDARD SHEET TITLE: SIDEWALK RAMPS

STANDARD SHEET NO.: HW-921_02



SECTION A
-



SECTION B
-

NOTE:
USE 3 POSTS FOR STAKING DECIDUOUS TREES 3"(76) CALIPER OR GREATER AND EVERGREEN TREES 8' (2.4m) HIGH OR GREATER. USE 2 POSTS FOR STAKING DECIDUOUS TREES LESS THAN 3"(76) CALIPER AND EVERGREEN TREES LESS THAN 8' (2.4m) HIGH.

GUYING PLAN

EXAMPLES OF MINIMUM SIZE OF ROOT BALL FOR NURSERY GROWN PLANTS.

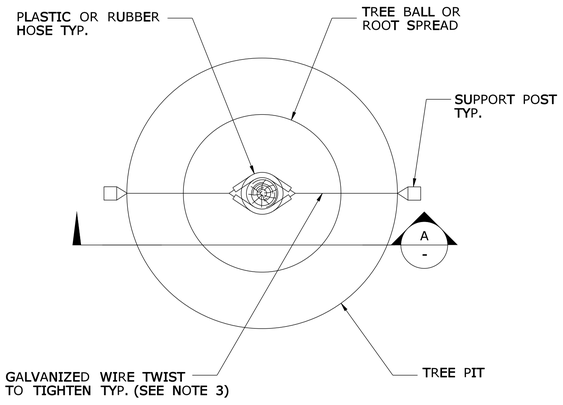
CALIPER* INCHES(mm)	BALL DIAMETER INCHES(mm)	PLANTING PIT SIZE INCHES(mm)
-	8(203)	16(406)
-	10(254)	20(508)
1/2(12.5)	12(304)	24(610)
3/4(19)	14(356)	28(711)
1(25)	16(406)	32(813)
1 1/2(38)	20(508)	40(1016)
2(50)	24(610)	48(1219)
2 1/2(65)	28(711)	56(1422)
3(75)	32(813)	64(1626)
3 1/2(90)	38(965)	76(1930)
4(100)	42(1166)	84(2134)
5(125)	54(1372)	108(2743)
6(150)**	-	-

* THE CALIPER OF THE TRUNK IS MEASURED 6"(152) ABOVE THE GROUND UP TO AND INCLUDING 4"(102) SIZES AND 12"(305) ABOVE THE GROUND FOR LARGER SIZES OR AS SPECIFIED IN THE MOST RECENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

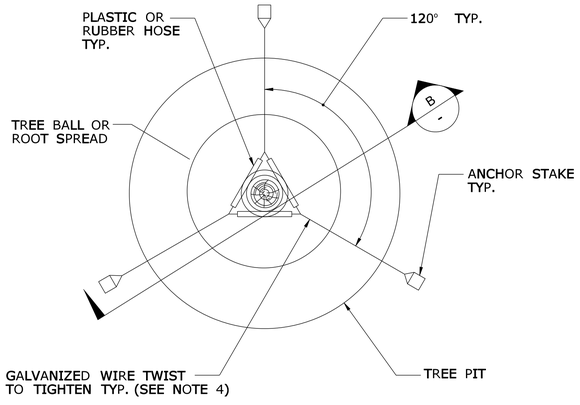
** TREES GREATER THAN OR EQUAL TO 6"(152) CALIPER SHALL HAVE A ROOT BALL DIAMETER EQUAL TO 10"(254) PER INCH(25mm) OF TRUNK CALIPER (A 7"(178) CALIPER TREE SHOULD HAVE A ROOT BALL DIAMETER EQUAL TO 70"(1778)).

GENERAL NOTES:

1. THE PLANTING PIT SIZE SHALL BE TWICE THE DIAMETER OF THE ROOT BALL IN WIDTH AND 2"(51) LESS THAN THE HEIGHT OF THE ROOT BALL.
2. ALL EXTERIOR PACKAGING MATERIAL APPLIED TO PLANTS SHALL BE REMOVED AFTER THE PLANT IS LOCATED IN THE PLANTING PIT. CUT AND REMOVE TWINE, BURLAP OR WIRE BASKETS FROM THE TOP 2/3RDS OF THE ROOT BALL.
3. USE DOUBLE STRAND NO. 12 WIRE FOR DECIDUOUS TREES GREATER THAN OR EQUAL TO 3"(76) CALIPER AND USE DOUBLE STRAND NO. 10 WIRE FOR EVERGREEN TREES GREATER THAN OR EQUAL TO 8"(203) CALIPER.
4. TREE TRUNK WRAPPING MATERIAL SHALL BE USED AS DIRECTED BY THE ENGINEER.
5. PLANTING PITS FOR INDIVIDUAL SHRUBS ON SLOPES SHALL BE THREE TIMES THE DIAMETER OF THE ROOT BALL IN WIDTH.

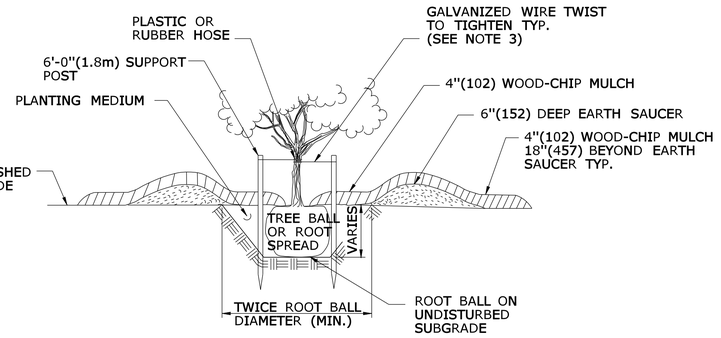


PLAN

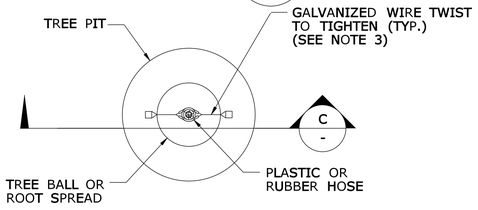


PLAN

STAKING PLAN

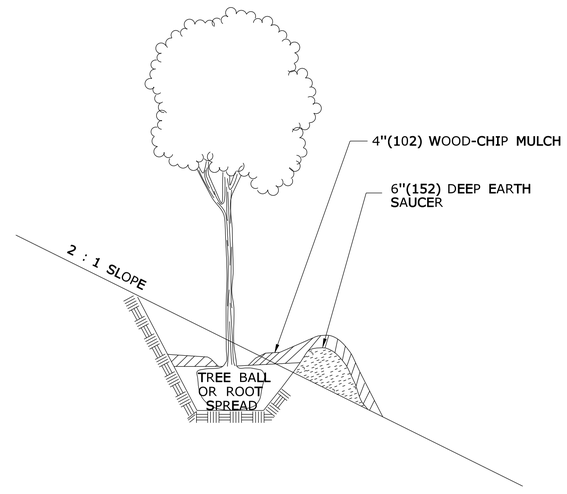


SECTION C
-



PLAN

STAKING PLAN FOR LOW BRANCHING DECIDUOUS AND EVERGREEN TREES FROM 5'(1.5m) TO 8'(2.4m) HIGH.



GRADING PLAN FOR TREES ON SLOPES

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

REV.	DATE	REVISION DESCRIPTION
-	-	-
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/11/2009

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD.dgn Model: HW-949_01

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

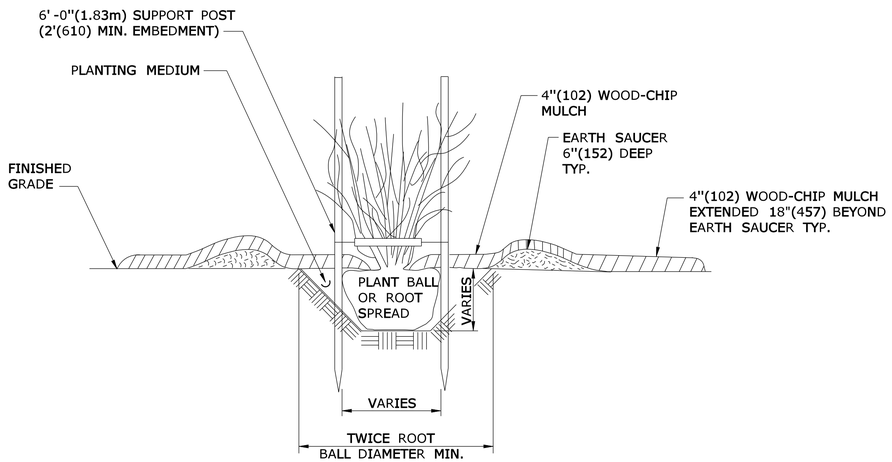
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

PLANTING DETAILS FOR TREES

STANDARD SHEET NO.:

HW-949_01



SECTION A-

EXAMPLES OF MINIMUM CONTAINER SIZES FOR NURSERY GROWN PLANTS

CALIPER* INCHES(mm)	HEIGHT** FEET(mm)	CONTAINER SIZE GALLONS(LITERS)
-	1(305)	0.7-1.1(2.6-4.2)
-	2(610)	0.7-1.1(2.6-4.2)
-	3(914)	0.7-1.1(2.6-4.2)
-	4(1219)	1.4-2.0(5.3-7.6)
-	5(1524)	3.4-4.2(12.9-15.9)
-	6(1829)	4.7-5.4(17.8-20.4)
1(25)	7(2134)	5.8-7.8(21.9-29.5)
-	8(2438)	9.0-11.5*34.1-43.5)
$1\frac{1}{2}$(38)	-	12.0-16.0(45.4-60.6)
2(51)	-	25.0-29.7(94.6-112.4)
$2\frac{1}{2}$(64)	-	25.0-29.7(94.6-112.4)

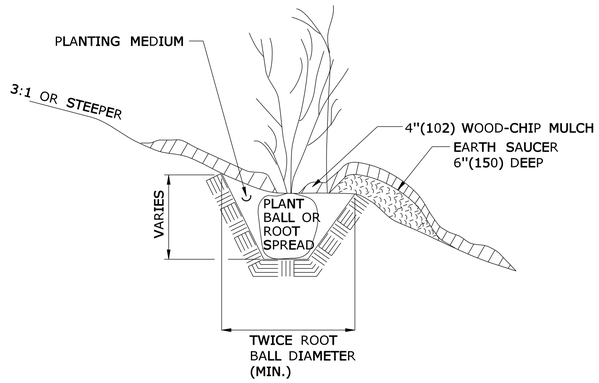
* THE CALIPER IS MEASURED 4"(102) ABOVE GROUND LEVEL.

** ONLY DECIDUOUS SHRUBS ARE INCLUDED IN THIS TABLE. EVERGREEN SHRUBS ARE MEASURED BY HEIGHT BUT, CONTAINER SIZE DEPENDS ON BOTH SIZE AND SHAPE AND ARE GENERALLY 1 TO 2 SIZES LARGER THAN DECIDUOUS PLANTS.

TABLE FOR SHRUBS

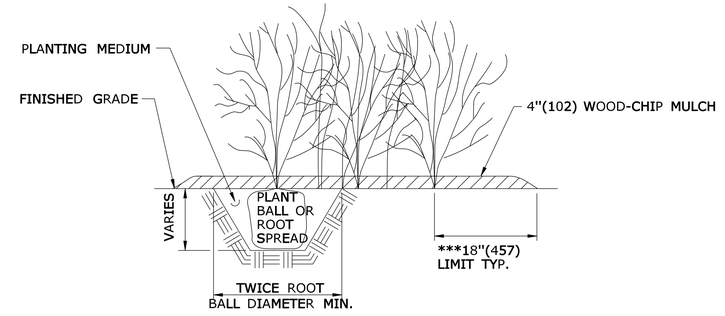
GENERAL NOTES:

1. THE PLANTING PIT SIZE SHALL BE TWICE THE DIAMETER OF THE ROOT BALL IN WIDTH AND 2"(51) LESS THAN THE HEIGHT OF THE ROOT BALL.
2. ALL EXTERIOR PACKAGING MATERIAL APPLIED TO PLANTS SHALL BE REMOVED AFTER THE PLANT IS LOCATED IN THE PLANTING PIT. CUT AND REMOVE TWINE, BURLAP OR WIRE BASKETS FROM THE TOP 2/3RDS (17) OF THE ROOT BALL.
3. USE DOUBLE STRAND NO. 12 WIRE FOR DECIDUOUS TREES GREATER THAN OR EQUAL TO 3"(76) CALIPER AND USE DOUBLE STRAND NO. 10 WIRE FOR EVERGREEN TREES GREATER THAN OR EQUAL TO 8"(203) CALIPER.
4. TREE TRUNK WRAPPING MATERIAL SHALL BE USED AS DIRECTED BY THE ENGINEER.
5. PLANTING PITS FOR INDIVIDUAL SHRUBS ON SLOPES SHALL BE THREE TIMES THE DIAMETER OF THE ROOT BALL IN WIDTH.



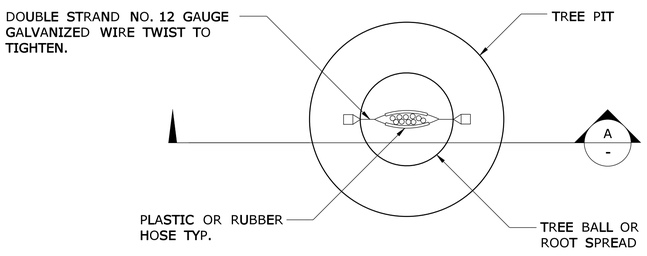
SECTION

PLANTING FOR SHRUBS IN INDIVIDUAL PITS ON SLOPES



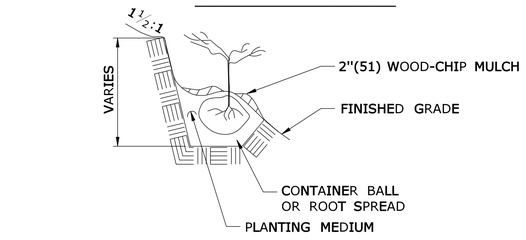
*** UNLESS OTHERWISE DIRECTED, WOOD-CHIP MULCH SHALL BE PLACED TO A LIMIT OF 18"(457) BEYOND THE CENTER OF THE OUTERMOST SHRUBS IN SHRUB BED.

PLANTING FOR SHRUBS IN BEDS



PLAN

STAKING FOR MULTI-STEMMED DECIDUOUS TREES FROM 5'(1.5m) TO 10'(3.0m) HIGH



NOTE: PLACE PLANTS AT THE SAME DEPTH THAT THE SEEDLING WAS GROWN IN THE NURSERY.

PLANTING FOR SEEDLINGS, VINES AND GROUND COVER PLANTS IN PITS ON SLOPES

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

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Plotted Date: 9/11/2009

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD.dgn Model: HW-949_02

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT
STANDARD SHEET

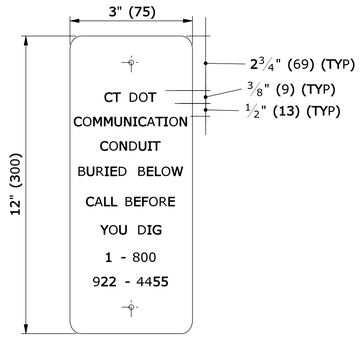
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

PLANTING DETAILS FOR SHRUBS

STANDARD SHEET NO.:

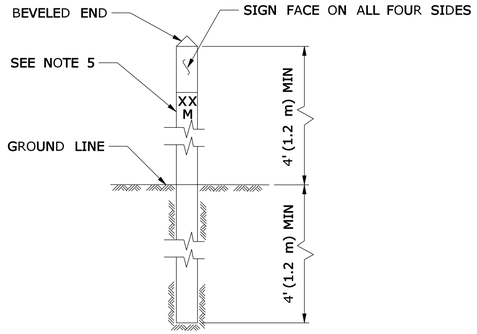
HW-949_02



SIGN FACE DETAIL

NOTES:

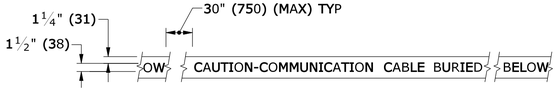
1. SIGN COLORS: BACKGROUND - ORANGE (REFLECTORIZED) LETTERING - BLACK (OPAQUE).



INTERCONNECT CONDUIT IDENTIFICATION POST DETAIL

NOTES:

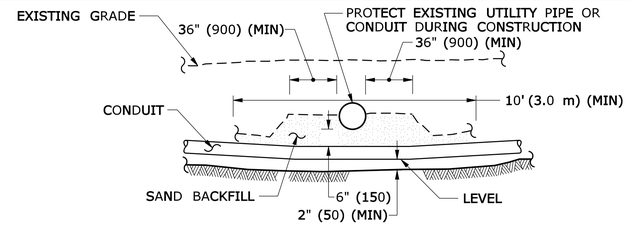
1. 4" x 4" (100 x 100) NOMINAL, PRESSURE TREATED WOOD POST.
2. ATTACH SIGN (41-4669) TO POST WITH ¼" x 1¼" (6 x 31) STAINLESS STEEL LAG SCREW WITH NYLON WASHER ON FACE OF SIGN.
3. INSTALL POST APPROX 24" (600) FROM RMC IN VICINITY OF EACH PULL BOX.
4. INSTALL POSTS BETWEEN PULL BOXES, APPROX 10' (3.0 m) OFF CURB. SPACE POSTS 1500'± (460 m±) APART.
5. PERMANENTLY ATTACH STAINLESS STEEL NUMBERS INDICATING DISTANCE TO TRENCH IN FEET (METERS) CONTAINING COMMUNICATION CABLE. ATTACH NUMBERS TO SIDE OF POST FACING CONDUIT. INCLUDE "M" SUFFIX IF METERS.



INTERCONNECT CONDUIT UNDERGROUND DETECTABLE WARNING TAPE

NOTES:

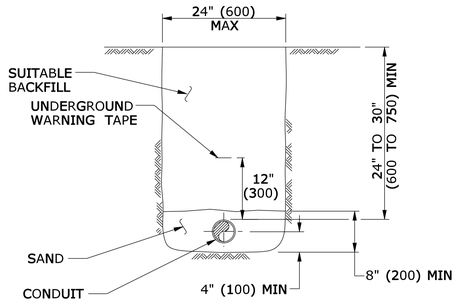
1. TAPE COLORS: BACKGROUND - ORANGE; LETTERS - BLACK.
2. PLACE WARNING TAPE IN TRENCH OVER CONDUIT AS SHOWN ON THE TRENCH DETAILS.



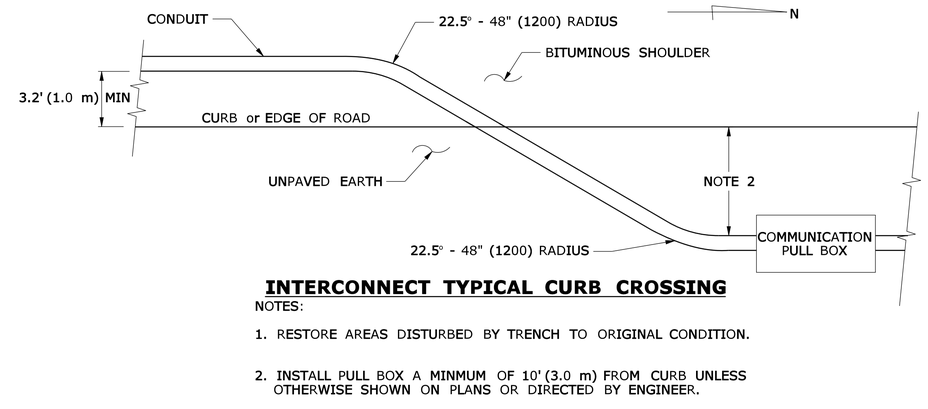
INTERCONNECT CONDUIT CROSSING UNDER EXISTING UTILITY

NOTE:

1. INSTALL CONDUIT UNDER EXISTING UTILITY CONDUIT ENCOUNTERED AT APPROXIMATELY SAME DEPTH.



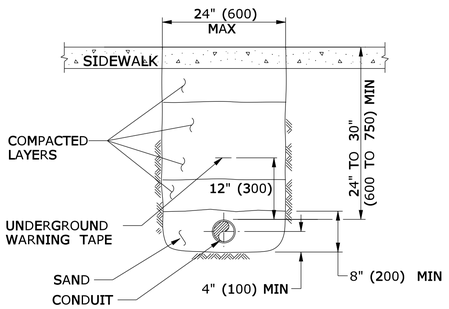
CONDUIT IN EARTH



INTERCONNECT TYPICAL CURB CROSSING

NOTES:

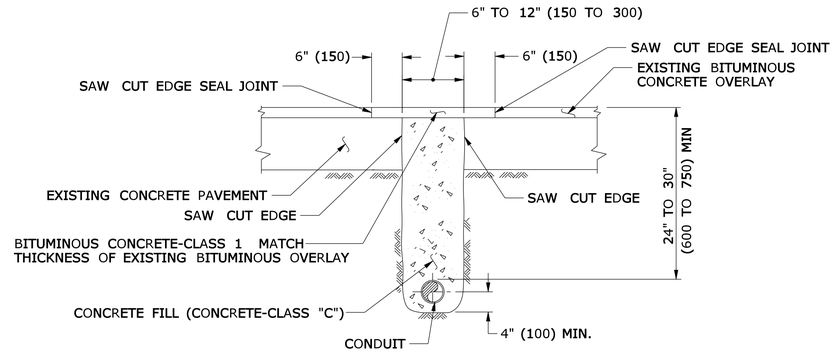
1. RESTORE AREAS DISTURBED BY TRENCH TO ORIGINAL CONDITION.
2. INSTALL PULL BOX A MINMUM OF 10' (3.0 m) FROM CURB UNLESS OTHERWISE SHOWN ON PLANS OR DIRECTED BY ENGINEER.



CONDUIT UNDER SIDEWALK

NOTE:

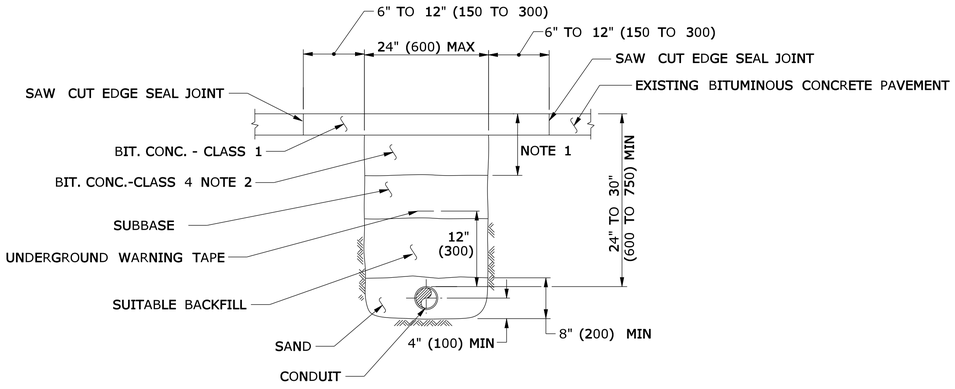
1. COMPACT BACKFILL IN 6"± (150±) LAYERS, IN ACCORDANCE WITH SECTION 9.21.03.



CONDUIT UNDER BITUMINOUS CONCRETE OVERLAYED CONCRETE PAVEMENT

GENERAL NOTES:

1. WHERE AN EXISTING CONCRETE SIDEWALK SLAB IS DAMAGED OR CUT DURING CONDUIT INSTALLATION, THE ENTIRE SECTION SHALL BE REPLACED. ALL CONCRETE SIDEWALK REPLACED DUE TO CONDUIT INSTALLATION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "CONCRETE SIDEWALK".
2. TOP OF CONDUIT TO BE A MINIMUM OF 24" (600) BELOW SURFACE.



CONDUIT UNDER BITUMINOUS CONCRETE PAVEMENT

NOTES

1. MATCH EXISTING BASE COURSE AND TOP COURSE DEPTH.
2. BITUMINOUS CONCRETE CLASS 1 MAY BE SUBSTITUTED FOR BITUMINOUS CONCRETE CLASS 4.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:

-- RMC (RIGID METAL CONDUIT)

REV.	DATE	REVISION DESCRIPTION
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Plotted Date: 10/16/2009

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1001_01

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

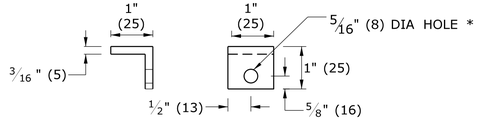
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

TRENCHING & BACKFILLING, ELECTRICAL CONDUIT

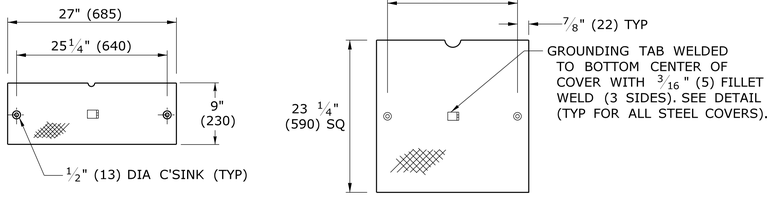
STANDARD SHEET NO.:

TR-1001_01

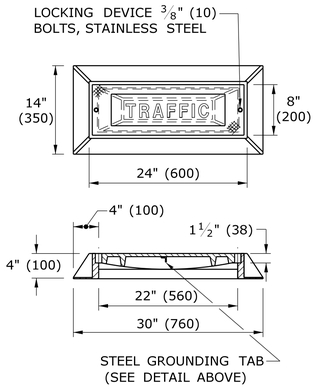


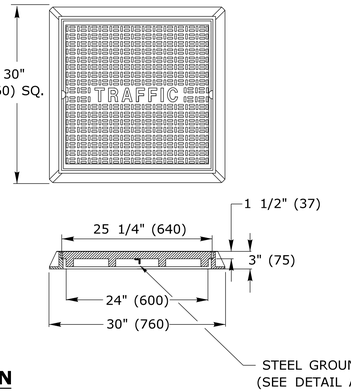
* ATTACH 6' (2 m) LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH ONE HOLE LUG, 1/4"-20 x 3/4" (M6 x 20) LG SST HEX HEAD BOLT, AND SST FLAT WASHER. ATTACH FREE END OF GROUND WIRE TO CONDUIT BONDING BUSHING IN HANDHOLE.

STEEL GROUNDING TAB

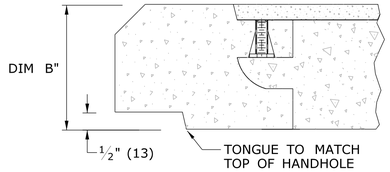


NON SKID FLOOR PLATE GALVANIZED STEEL, 3/8" (10)





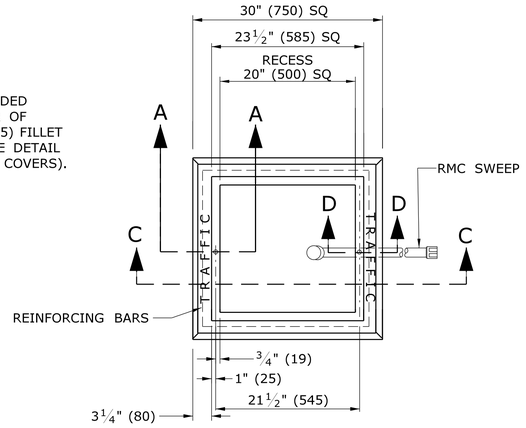
CAST IRON HANDHOLE COVERS



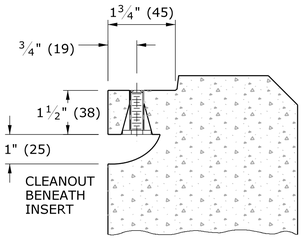
DIM. "B" CHART	
ENGLISH HEIGHT	METRIC HEIGHT
2"	50
4" SHOWN	100
6"	150
12"	300

SECTION A-A HANDHOLE EXTENSIONS

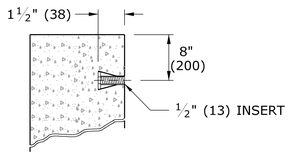
12 - #8 REINFORCING BARS REQ'D



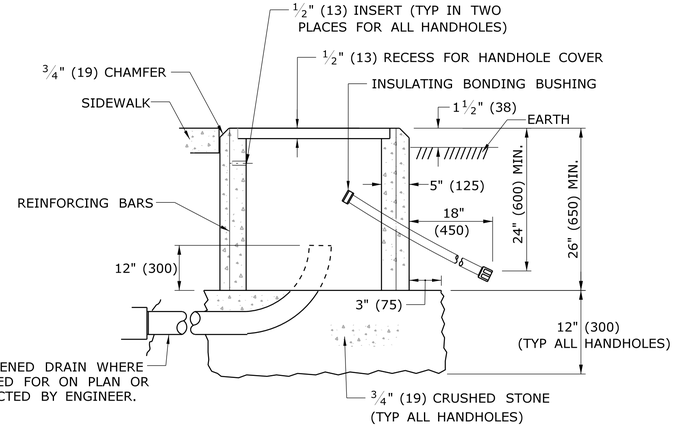
PLAN VIEW



SECTION D-D

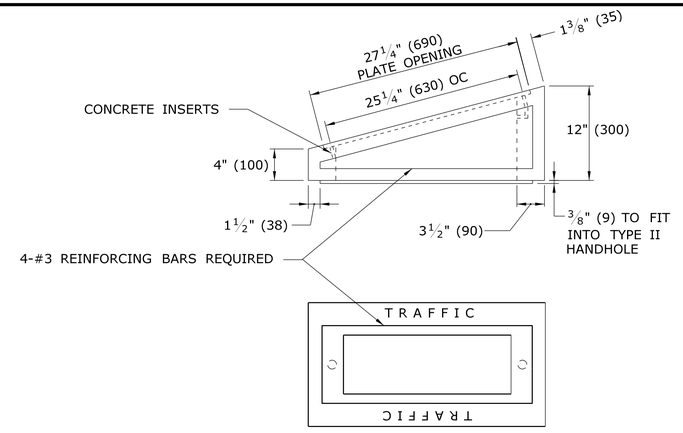


INSERT DETAIL



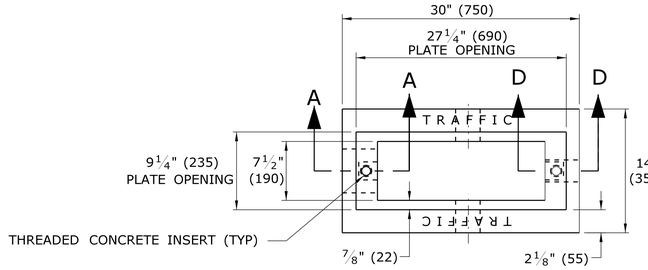
SECTION C-C

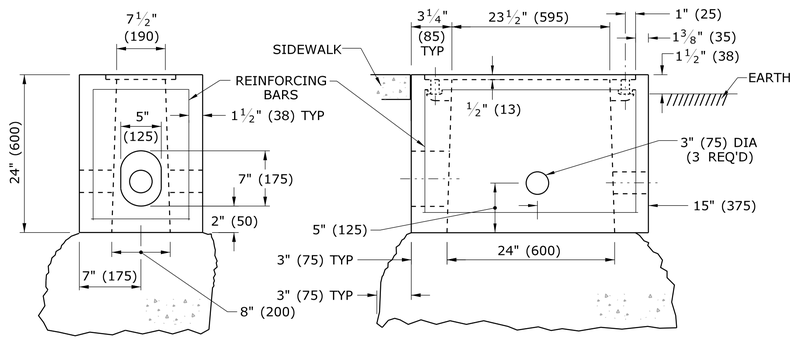
CONCRETE HANDHOLE CLASS "A" CONCRETE



TOP VIEW DIMENSIONS AND SECTION VIEWS SAME AS CONCERETE HANDHOLE.

CONCRETE HANDHOLE TYPE II BANK ADAPTER





CONCRETE HANDHOLE TYPE II CLASS "C" CONCRETE

NOTES:

1. BLOCK UNUSED OPENINGS OF HANDHOLE ON THE OUTSIDE WITH PRESSURE TREATED PLYWOOD.
2. GROUT AROUND ALL CONDUITS.
3. USE 1 1/2" x 3/8" (38 x 10) CONCRETE INSERT. STANDARD THREAD, STAINLESS STEEL, FLAT HEAD BOLT, RECESSED IN PLATE COVER. INSERTS TO HAVE CLEANOUTS.
4. TYPE II HANDHOLE 30" (760) SIDE INSTALLED PARALLEL TO ROAD UNLESS OTHERWISE NOTED.
5. CAST THE WORD "TRAFFIC" INTO TOP EDGE OF HANDHOLE, 1 1/2" (38) LETTERS.
6. WHERE AN EXISTING CONCRETE SIDEWALK SLAB ABUTTING A HANDHOLE IS DAMAGED OR CUT DURING INSTALLATION, THE ENTIRE SECTION SHALL BE REPLACED.
7. 12-#3 REINFORCING BARS REQUIRED FOR ALL HANDHOLES. (8 HORIZONTAL, 4 VERTICAL)

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
- PROPOSED HANDHOLE
- EXISTING HANDHOLE

REV.	DATE	REVISION DESCRIPTION
-		

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Plotted Date: 9/11/2009

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1010_01

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

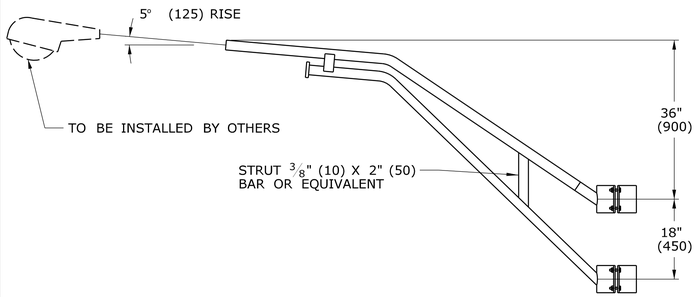
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

CONCRETE HANDHOLE

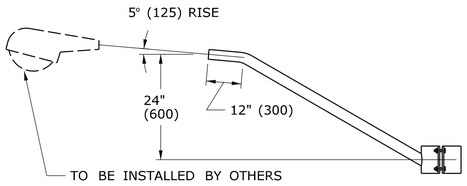
STANDARD SHEET NO.:

TR-1010_01



TYPICAL TRUSS LUMINAIRE ARM

12' to 16' (3600 to 5000) 2" (50) SCH 40
20' to 30' (6000 to 9000) 2½" (63) SCH 40



TYPICAL SINGLE LUMINAIRE ARM

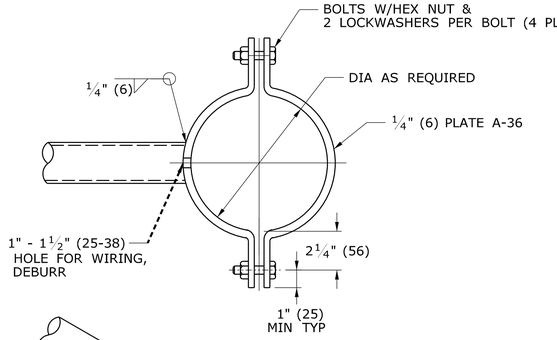
4' to 10' (1200 to 3000) 2" (50) SCH 40

ARM CLAMP DETAIL MATERIAL SPEC'S

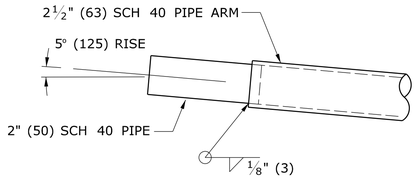
CLAMP PLATE	ASTM A36
BOLTS & NUTS	ASTM A325
PIPE	ASTM A501
BAR	ASTM A501

SHAFT SIZE				
LENGTH	LOAD * AT YIELD	STRINGING TENSION	MAXIMUM DEFLECTION AT STRINGING TENSION	BOLT CIRCLE
26'	6100 lbs.	2440 lbs.	9.0"	20"
28'	6100 lbs.	2440 lbs.	9.0"	20"
30'	7800 lbs.	3120 lbs.	9.6"	20"
32'	10,000 lbs.	4000 lbs.	10.3"	22"
34'	11,200 lbs.	4480 lbs.	10.9"	22"
* 18" FROM TOP OF POLE				

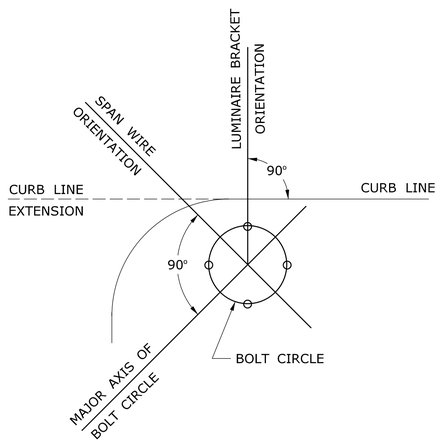
SHAFT SIZE				
LENGTH	LOAD * AT YIELD	STRINGING TENSION	MAXIMUM DEFLECTION AT STRINGING TENSION	BOLT CIRCLE
8.0 m	27 150 N	10 860 N	230	510
8.5 m	27 150 N	10 860 N	230	510
9.0 m	34 710 N	13 890 N	240	510
9.5 m	44 500 N	17 800 N	260	560
10.0 m	46 700 N	18 670 N	260	560
10.5 m	49 840 N	19 940 N	280	560
* 460 FROM TOP OF POLE				



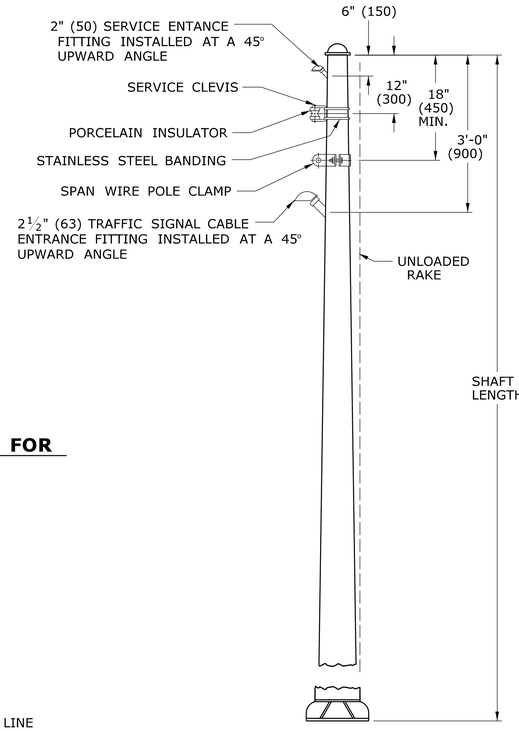
ARM CLAMP DETAIL



REDUCING TENON EXTENSION FOR FOR 2½" (64) ARMS

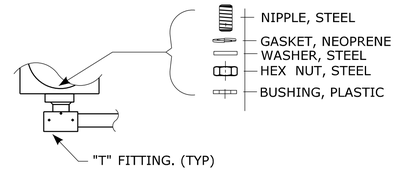


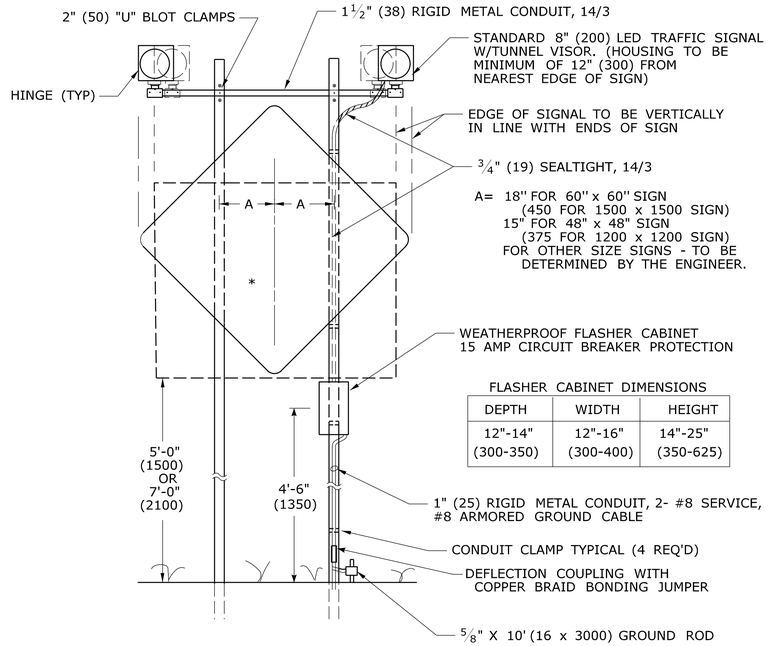
STEEL SPAN POLE ORIENTATION DETAIL



TYPICAL STEEL SPAN POLE

- RAKE UNLOADED SPAN POLE IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 11.03.03 - CONSTRUCTION METHODS.
- WHEN THERE IS MORE THAN ONE SPAN ATTACHMENT, THE RESULTANT VECTOR MUST BE SQUARE TO THE BOLTS.
- TWO BOLTS IN COMPRESSION, TWO BOLTS IN TENSION.
- FOUNDATIONS INSTALLED WITH GREATER THAN 9° ERROR ON BOLT CIRCLE AXIS FROM SPAN WIRE ORIENTATION, WILL NOT BE ACCEPTED.
- EACH SPAN ATTACHMENT SHALL USE A SEPARATE SPAN CLAMP.



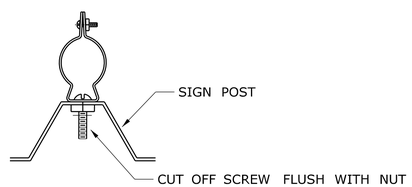


FLASHER CABINET DIMENSIONS

DEPTH	WIDTH	HEIGHT
12"-14" (300-350)	12"-16" (300-400)	14"-25" (350-625)

TYPICAL ALTERNATE FLASHING SIGNALS FOR WARNING SIGNS

* TYPICAL WARNING SIGN
A CLEAR PATH NOT LESS THAN 3' (900) SHALL BE PROVIDED IN SIDEWALK AREAS FOR HANDICAP ACCESS.



CONDUIT CLAMP ENLARGEMENT

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
- PROPOSED STEEL SPAN POLE
- EXISTING STEEL SPAN POLE
- WARNING SIGN WITH FLASHERS & CABINET

REV.	DATE	REVISION DESCRIPTION
-		

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 10/30/2009

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1103_01

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

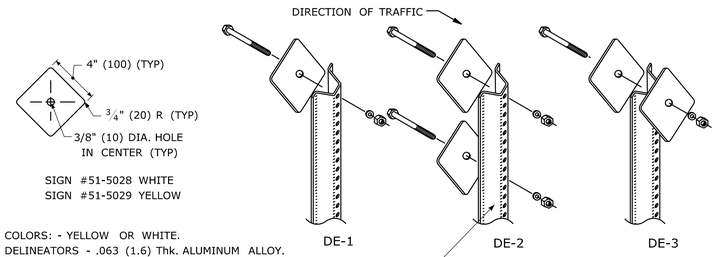
SPAN POLE, ALTERNATE FLASHING SIGNALS FOR WARNING SIGNS

STANDARD SHEET NO.:

TR-1103_01

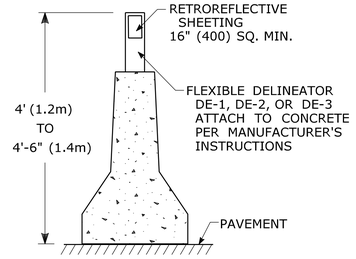
DELINEATORS DE-1, DE-2, DE-3

INSTALLATION ON DELINEATOR POSTS



COLORS: - YELLOW OR WHITE.
DELINEATORS - .063 (1.6) Thk. ALUMINUM ALLOY.
FACE SHALL BE PRESSURE SENSITIVE, SELF ADHERING, TYPE IV OR BRIGHT WIDE ANGLE RETROREFLECTIVE SHEETING.
DELINEATORS SHALL BE FASTENED WITH 5/16" (8) STAINLESS STEEL ASTM A-193 CLASS 1, GRADE B8 (TYPE 304) OR BETTER HEX HEAD BOLT (LENGTH AS REQUIRED), WASHER AND FIBER INSERT SELF LOCKING NUT, ON STANDARD METAL DELINEATOR POST.

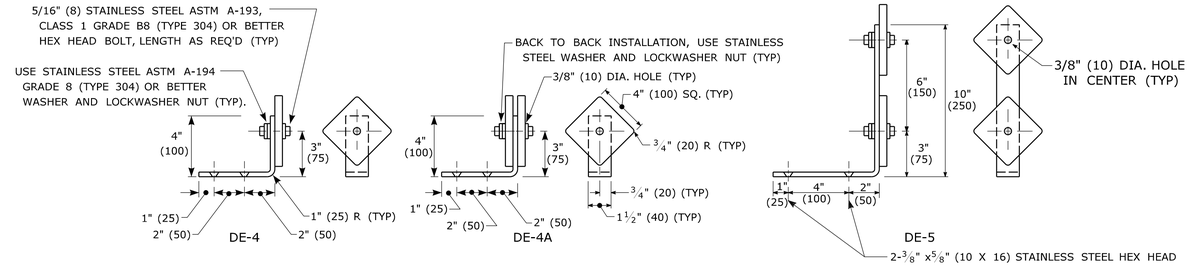
INSTALLATION ON PERMANENT CONCRETE BARRIER, BRIDGE PARAPETS & RETAINING WALLS



DELINEATORS DE-1, DE-2, DE-3 TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

DELINEATORS DE-4, DE-4A, DE-5

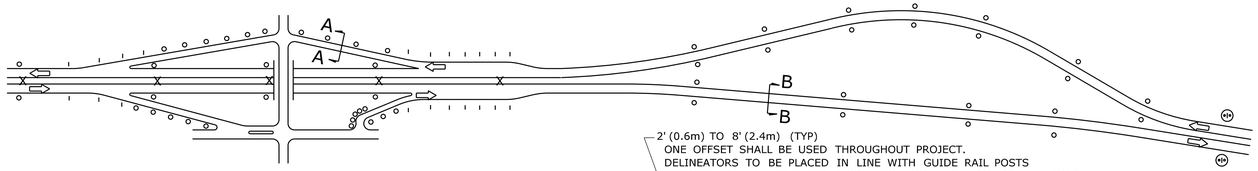
FOR INSTALLATION ON METAL BRIDGE RAIL



COLORS: - YELLOW OR WHITE.
DELINEATORS - .063 (1.6) Thk. ALUMINUM ALLOY.
BRACKET - .125 (3.2) Thk. ALUMINUM ALLOY, AND SHALL CONFORM TO SPECIFICATION M.18.07-03 BRIDGE RAIL MOUNTING BRACKETS.
FACE SHALL BE PRESSURE SENSITIVE, SELF ADHERING, TYPE IV OR BRIGHT WIDE ANGLE RETROREFLECTIVE SHEETING.
USE STAINLESS STEEL WASHERS ON FACE OF DELINEATORS, 5/8 " (16) O.D. X 3/8 " (10) I.D. X .032 (0.8) Thk. (TYPICAL).

DELINEATORS TYPE DE-4, DE-4A, AND DE-5 TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

TYPICAL MAINLINE & INTERCHANGE DELINEATION



DELINEATOR SPACING NOTES:

1) AT LOCATIONS WHERE THE MEDIAN WIDTH (BETWEEN SHOULDERS) IS 12' (3.6m) OR LESS, AND MEDIAN BEAM RAIL IS PRESENT, TYPE DE-3 DELINEATORS SHALL BE MOUNTED WITHIN THE MEDIAN BEAM RAIL..
2) SPACING ON MAINLINE EXPRESSWAY TANGENTS SHALL BE 400' (120m).
3) SPACING ON MAINLINE EXPRESSWAY CURVES SHALL BE AS SPECIFIED IN TABLE 3D-1 OF THE MUTCD.
4) ON ACCELERATION AND DECELERATION LANES AND ON-RAMP TANGENT SECTIONS, DELINEATOR SPACING SHALL BE 100' (30m).
5) ON CURVED PORTIONS OF RAMPS, DELINEATOR SPACING SHALL BE IN ACCORDANCE WITH TABLE 3D-1 OF THE MUTCD, BUT NOT TO EXCEED 100' (30m).

LEGEND:

- o DE-1 DELINEATORS OR DE-4 DELINEATOR ASSEMBLY
- I DE-2 DELINEATORS OR DE-5 DELINEATOR ASSEMBLY
- X DE-3 DELINEATORS ASSEMBLY OR DE-4A DELINEATOR
- (10) D10-1, 2, OR 3 ASSEMBLY TO BE INSTALLED WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

COLOR APPLICATION, FOR DE-1 THRU DE-5

LEFT SIDE OF ALL ROADWAYS AND RAMPS - YELLOW
RIGHT SIDE OF ALL ROADWAYS AND RAMPS - WHITE

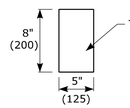
MUTCD TABLE 3D-1
APPROXIMATE SPACING FOR DELINEATORS ON HORIZONTAL CURVES

RADIUS (R) OF CURVE (feet)	APPROXIMATE SPACING (S) ON CURVE (feet)	RADIUS (R) OF CURVE (m)	APPROXIMATE SPACING (S) ON CURVE (m)
50	20	15	6
115	25	35	8
180	35	55	11
250	40	75	13
300	50	95	15
400	55	125	18
500	65	155	20
600	70	185	22
700	75	215	24
800	80	245	26
900	85	275	27
1,000	90	305	29

DISTANCE IN FEET (m) WERE ROUNDED TO THE NEAREST 5 FEET (1.5m) SPACING FOR SPECIFIC RADII MAY BE INTERPOLATED FROM TABLE. THE MINIMUM SPACING SHOULD BE 20 FT (6.1m) THE SPACING ON CURVES SHOULD NOT EXCEED 300 FT (90 m). IN ADVANCE OF OR BEYOND A CURVE AND PROCEEDING AWAY FROM THE END OF THE CURVE, THE SPACING OF THE FIRST DELINEATOR IS 2S. THE SECOND IS 3S, AND THE THIRD 6S BUT NOT TO EXCEED 300 FT (90m)
S REFERS TO THE DELINEATOR SPACING FOR SPECIFIC RADII COMPUTED FROM THE FORMULA: $S=3\sqrt{R-50}$ ($S=1.7\sqrt{R-15}$).

DELINEATORS DE-7, DE-7A, DE-7B, DE-7C

FOR INSTALLATION ON TEMPORARY PRECAST CONCRETE BARRIER CURB AND TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE)



DE-7 ONE WAY WHITE
DE-7A ONE WAY YELLOW
DE-7B TWO WAY YELLOW
DE-7C WHITE/YELLOW BACK TO BACK
TEMPORARY PRECAST CONCRETE BARRIER DELINEATORS ARE TO BE FABRICATED OF ALUMINUM, STEEL, PLASTIC, OR OF A MATERIAL APPROVED BY THE ENGINEER AND MOUNTED IN THE CENTER OF EACH SECTION OF TEMPORARY BARRIER AS REQUIRED AND PER MANUFACTURER'S INSTRUCTIONS.

SPACING FOR TEMPORARY BARRIER CURB DELINEATORS:

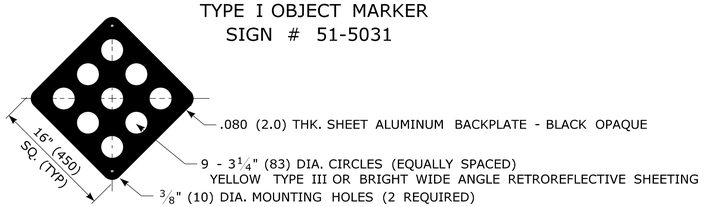
ON THE LEADING TAPERED SECTION - EVERY 20' (6.2m),
ON THE FIRST 100' (30m) OF THE PARALLEL SECTION - EVERY 20' (6.2m),
ON THE REMAINING LENGTH - EVERY 100' (30m), MINIMUM OF 2 IF LESS THAN 100' (30m),
ALTERNATING ONE WAY TRAFFIC - EVERY 20' (6.2m),
ALL OTHER ROADWAYS SHALL BE DELINEATED IN ACCORDANCE WITH MUTCD.

DELINEATORS DE-7, DE-7A, DE-7B, DE-7C TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

DELINEATOR DE-9

TYPE I OBJECT MARKER

SIGN # 51-5031

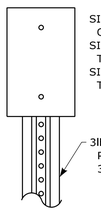


WHEN ERECTED AS A SEPARATE INSTALLATION A 3lb. (4.5kg/m) METAL SIGN POST SHALL BE USED. THE BOTTOM OF THE DE-9 SHALL BE 4' (1.2m) ABOVE THE ADJACENT PAVEMENT AND THE PENETRATION OF THE POST SHALL BE 38" (950 mm) MINIMUM BELOW THE FINISHED GRADE.

DELINEATORS DE-9 TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

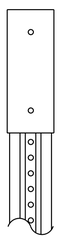
DELINEATORS D10-1, D10-2, D10-3

MILE POST MARKER ASSEMBLY

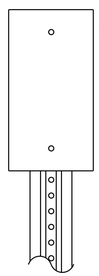


SIGN # 51-5291 MILE MARKER, ONE DIGIT
SIGN # 51-5292 MILE MARKER, TWO DIGITS
SIGN # 51-5293 MILE MARKER, THREE DIGITS

3lb. (4.5 kg/m) METAL SIGN POST(TYP)
PENETRATION OF POST SHALL BE 38" (950) MINIMUM BELOW FINISHED GRADE



SIGN # 51-5300 MILE MARKER, ONE DIGIT WITH DECIMAL
SIGN # 51-5301 MILE MARKER, TWO DIGITS WITH DECIMAL
SIGN # 51-5302 MILE MARKER, THREE DIGITS WITH DECIMAL

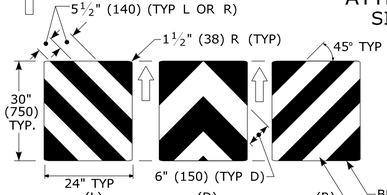


SIGN # 51-5307 MILE MARKER, VARIABLE CARDINAL DIRECTION, VARIABLE SHIELD, VARIABLE NUMERALS

MILE POST MARKER ASSEMBLY TO BE PAID FOR UNDER SECTION 12.08 SIGN FACE SHEET ALUMINUM

ATTENUATOR REFLECTOR

SIGN # 50-5032

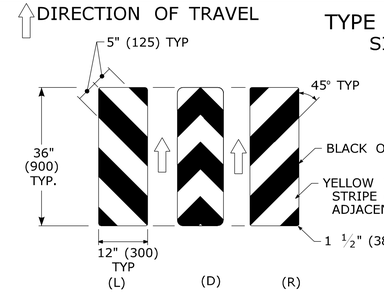


THIS SHEETING TO BE INSTALLED ON THE NOSE OF THE IMPACT ATTENUATOR WITH ADHESIVE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
THE SHEETING SHALL COVER THE NOSE OF THE IMPACT ATTENUATOR.
ON A CURVED NOSE, THE WIDTH OF THE SHEETING SHALL EXTEND 1" (25) BEYOND THE POINT OF CURVATURE ON EACH SIDE OF THE NOSE.
THE HEIGHT AND WIDTH OF THE SHEETING VARIES DEPENDING ON THE SIZE OF THE NOSE OF THE IMPACT ATTENUATOR.

ATTENUATOR REFLECTOR TO BE PAID FOR UNDER SECTION 18.0 IMPACT ATTENUATOR

TYPE 3 OBJECT MARKERS

SIGN # 51-5023



SIGN #51-5023 MARKER MOUNTED ON 3lb. (4.5kg/m) METAL SIGN POST
BOTTOM OF SIGN #51-5023 TO BE 4' (1.2m) ABOVE ADJACENT EDGE OF PAVEMENT
FINAL LOCATIONS OF SIGN #51-5023 MARKERS WILL BE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

TYPE 3 OBJECT MARKER TO BE PAID FOR UNDER SECTION 12.08 SIGN FACE SHEET ALUMINUM

REV.	DATE	REVISION DESCRIPTION
2	2-2011	MINOR REVISIONS.
1	1-2010	INCLUDED DETAILS IN D10-1, D10-2, D10-3 DELINEATORS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/22/2011

DIMENSIONS ARE IN ENGLISH (".") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED:
- OVER 1" TO NEAREST 5 mm
- UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1205_01

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

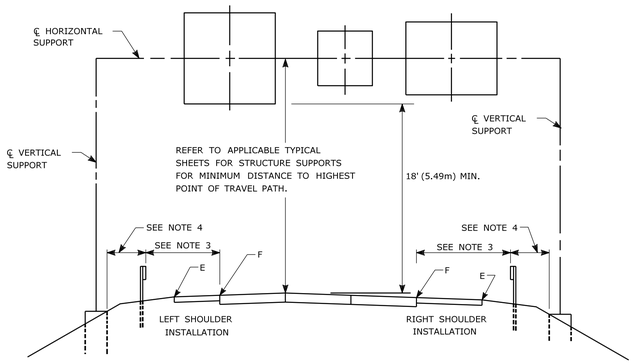
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

DELINEATION, DELINEATORS AND OBJECT MARKER DETAILS

STANDARD SHEET NO.:

TR-1205_01



GUIDE RAIL PLACEMENT FOR SIGN SUPPORTS

NOTES:

1) FOR PLACEMENT OF CANTILEVER SIGN SUPPORT USE APPLICABLE PORTION OF ABOVE DETAIL.
2) BARRIER SYSTEM IS REQUIRED FOR BOTH SIDES OF MEDIAN SUPPORTS IN NARROW MEDIANS.
3) AT LOCATIONS WHERE IMPACT PROTECTION IS NOT REQUIRED FOR ROADSIDE ELEMENTS, FACE OF GUIDE RAIL SHALL BE PLACED 30' (9.1m) FROM EDGE OF TRAVELWAY.
4) OFFSETS OF FOUNDATIONS FROM BARRIER SYSTEMS SHALL BE AS SHOWN ELSEWHERE ON THE CONTRACT PLANS.
5) ALL SIGNS ARE TO BE HORIZONTAL, REGARDLESS OF CAMBER IN SUPPORT.

FOR MAXIMUM EFFECTIVENESS AND TO ELIMINATE OR MINIMIZE GLARE, POSITION SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS AS FOLLOWS:

ON A TANGENT SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 93° WITH THE TRAFFIC LANE WHICH THE SIGN SERVES:

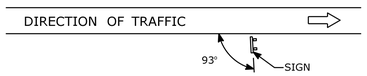


DIAGRAM "A"

ON A HORIZONTAL CURVE SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH A STRAIGHT LINE BETWEEN THE SIGN AND THE POINT AT WHICH THE SIGN SHALL BE READ.

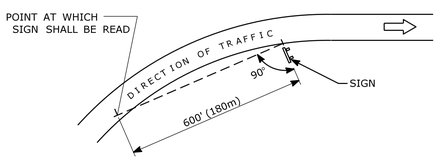
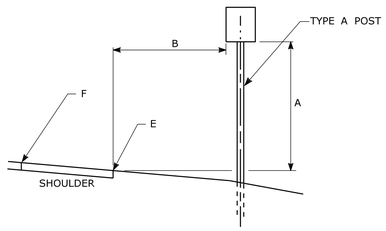
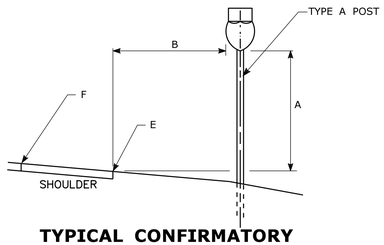


DIAGRAM "B"

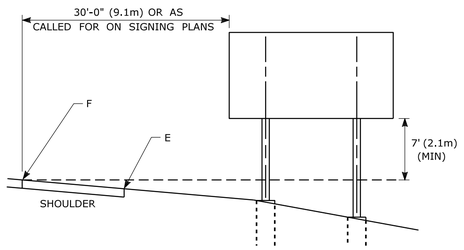
SIGN ORIENTATION DETAILS



TYPICAL REGULATORY & WARNING SIGN PLACEMENT



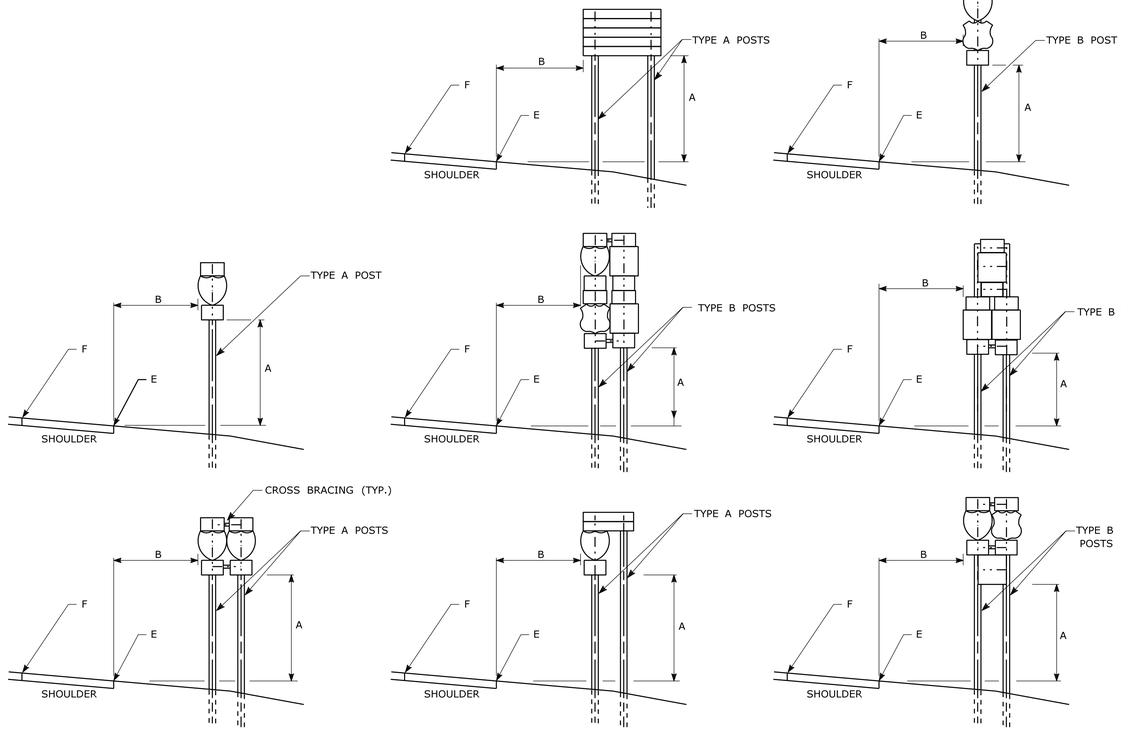
TYPICAL CONFIRMATORY ROUTE MARKER PLACEMENT



TYPICAL PLACEMENT OF SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS

NOTES:

1) MIN. VERTICAL CLEARANCE ABOVE SIDEWALKS SHALL BE 8'-6" (2.6m).
2) WHERE GUIDE RAIL IS USED, THE OFFSET TO THE NEAR EDGE OF SIGN FACE SHALL BE AS SHOWN ELSEWHERE IN THE CONTRACT PLANS.
3) ON INTERSECTING ROADS AT RAMP TERMINI, THE OFFSET TO THE NEAR EDGE OF OF SIGN FACE SHALL BE 6' (1.8m) MIN. FROM POINT "E".
4) IF 30'-0" (9.1m) MIN. CANNOT BE MET, PLEASE CONTACT THE ENGINEER.



TYPICAL SIGN PLACEMENT AND POST SELECTION

NOTES:

ALL SIGNS AND SHIELDS ON DIRECTIONAL ASSEMBLIES SHALL ABUT VERTICALLY

2 POST ASSEMBLIES SHALL BE PROVIDED WITH 3" X ¼" (75 X 6) GALVANIZED STEEL BAR CROSS BRACING.

REFER TO TRAFFIC TYPICAL SHEET "TYPICAL METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR SIGN POSTS.

DIM."A"	DIM."B" △1	ASSEMBLY LOCATION
7' (2.1m)	6' (1.8m) 12' (3.6m) △2	RURAL DISTRICTS & EXPRESSWAYS
7' (2.1m)	2' (0.6m)	BUSINESS & RESIDENTIAL DISTRICTS WHERE PARKING OR OTHER OBSTRUCTIONS LIMIT VISIBILITY
8'-6" (2.6m)	1' (0.3m)	SIDEWALKS △3

△1 OR AS DIRECTED BY THE ENGINEER

△2 6' FROM EDGE OF SHOULDER, WHEN SHOULDER IS OVER 6' WIDE
12' FROM EDGE OF TRAVELWAY, WHEN SHOULDER IS LESS THAN 6' WIDE.

△3 A CLEAR PATH OF NOT LESS THAN 3 FT (0.9m) SHALL BE PROVIDED IN SIDEWALK AREAS.

"E" DENOTES EDGE OF SHOULDER OR FACE OF CURB

"F" DENOTES EDGE OF TRAVELWAY

REV.	DATE	REVISION DESCRIPTION
-		

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/11/2009

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1208_01

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

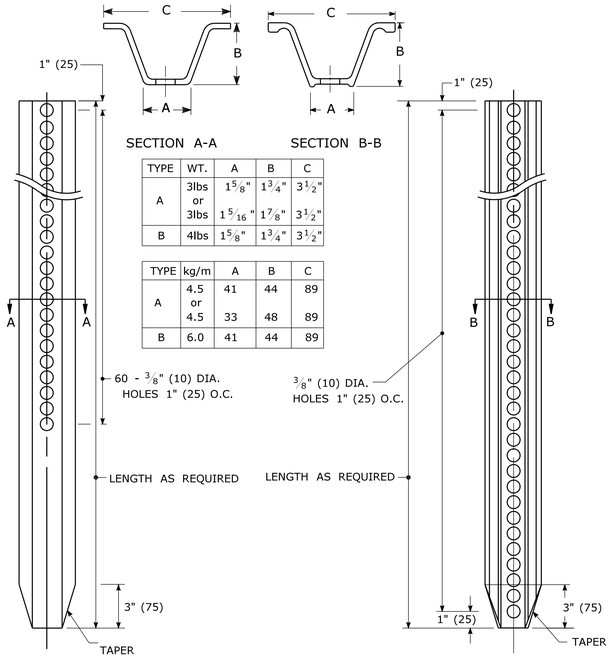
STANDARD SHEET TITLE:

SIGN SUPPORT AND SIGN PLACEMENT DETAILS, GORE EXIT SIGN

STANDARD SHEET NO.:

TR-1208_01

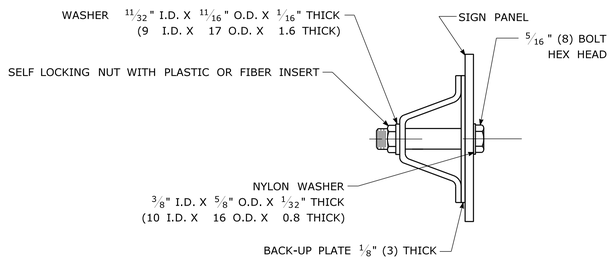
TYPICAL METAL SIGN POSTS



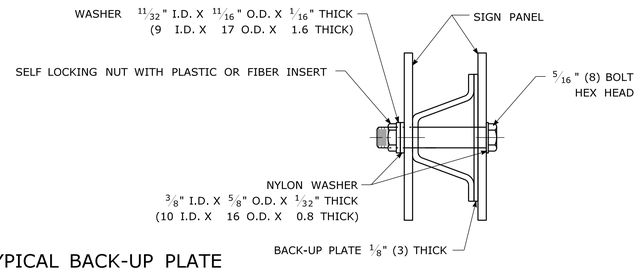
TYPE	WT.	A	B	C
A	3lbs or 3lbs	1 5/8"	1 3/4"	3 1/2"
		1 5/16"	1 7/8"	3 1/2"
B	4lbs	1 5/8"	1 3/4"	3 1/2"

TYPE	kg/m	A	B	C
A	4.5 or 4.5	41	44	89
		33	48	89
B	6.0	41	44	89

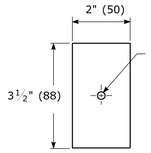
TYPICAL SIGN PANEL ATTACHMENT



TYPICAL BACK TO BACK SIGN PANEL ATTACHMENT



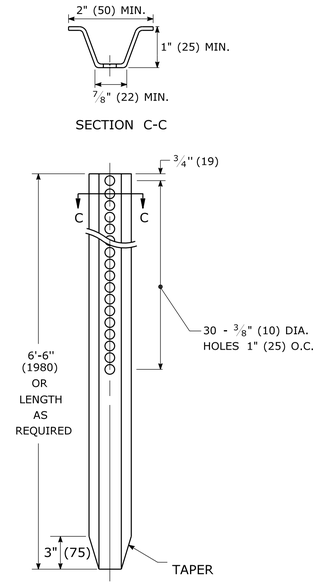
TYPICAL BACK-UP PLATE



BOLTS - STAINLESS STEEL CONFORMING TO ASTM F593, ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).
SELF LOCKING NUTS - STAINLESS STEEL CONFORMING TO ASTM F594, ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).
WASHERS - STAINLESS STEEL CONFORMING TO ASTM A240, (ALLOY TYPES 304 OR 316).

METAL DELINEATOR POST

WT./FT. = 1.12 LBS. MIN.
(MASS/m = 1.67 kg/m MIN.)



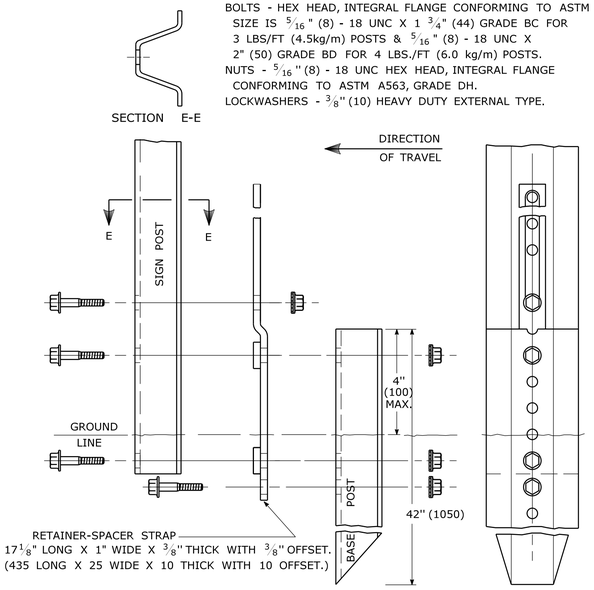
GENERAL NOTES:

1. STEEL FOR DELINEATOR POSTS SHALL BE ASTM A36/A36(m) STEEL. STEEL FOR ALL OTHER POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499 GRADE 60 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT (MASS) OF 91lbs. (45 kg.) OR GREATER PER LINEAR YARD (METER).
2. AFTER FABRICATION, ALL STEEL POSTS, STRAPS AND PLATES SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A123/A123(m).
3. WASHERS FOR BREAKAWAY INSTALLATIONS SHALL MEET ASTM F436, TYPE 1.
4. ALL BOLTS, NUTS, AND WASHERS FOR BREAKAWAY INSTALLATIONS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A153/A153(m).
5. ALL SIGN POSTS SHALL HAVE BREAKAWAY FEATURES THAT MEET AASHTO REQUIREMENTS CONTAINED IN THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS." THE BREAKAWAY FEATURES SHALL BE STRUCTURALLY ADEQUATE TO CARRY THE SIGNS SHOWN IN THE PLANS AT 60 mph (97 km/h) WIND LOADINGS. INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
6. TYPE A POSTS - 3 lbs/ft (4.5 kg/m) TYPE B POSTS - 4 lbs/ft (6 kg/m).

BREAKAWAY TYPE I INSTALLATION

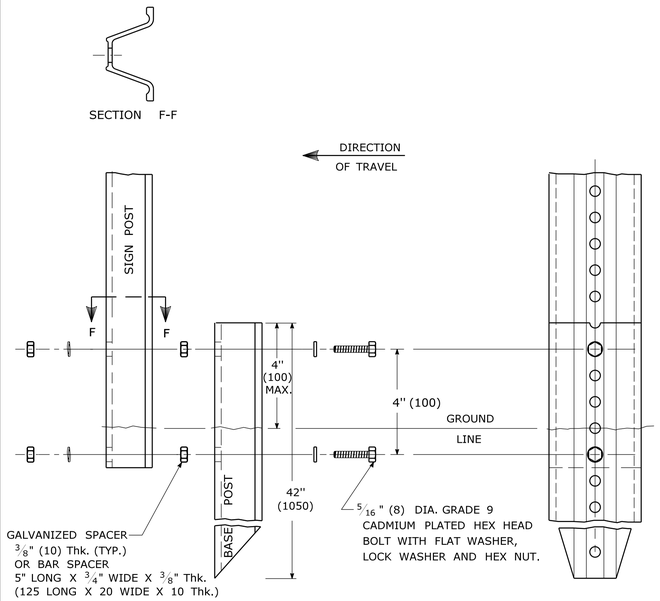
FOR 3 & 4 LB. POSTS
(FOR 4.5 & 6.0 kg/m POSTS)

BOLTS - HEX HEAD, INTEGRAL FLANGE CONFORMING TO ASTM A354, SIZE IS 5/16" (8) - 18 UNC X 1 3/4" (44) GRADE BC FOR 3 LBS/FT (4.5kg/m) POSTS & 5/16" (8) - 18 UNC X 2" (50) GRADE BD FOR 4 LBS./FT (6.0 kg/m) POSTS.
NUTS - 5/16" (8) - 18 UNC HEX HEAD, INTEGRAL FLANGE CONFORMING TO ASTM A563, GRADE DH.
LOCKWASHERS - 3/8" (10) HEAVY DUTY EXTERNAL TYPE.

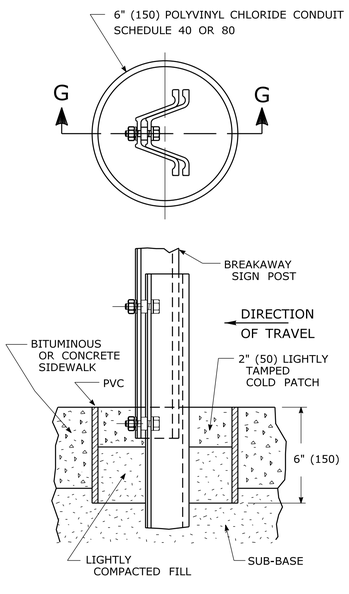


BREAKAWAY TYPE II INSTALLATION

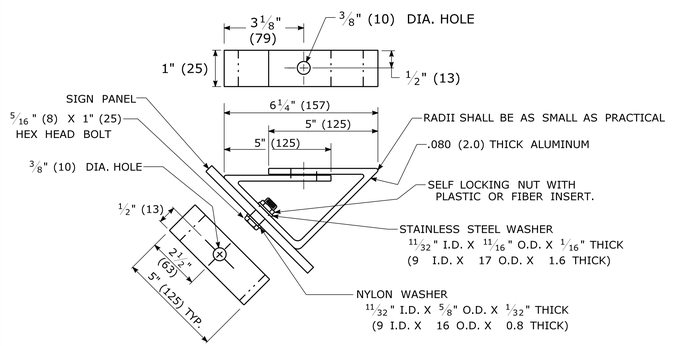
FOR 3 & 4 LB. POSTS
(FOR 4.5 & 6.0 kg/m POSTS)



TYPICAL SLEEVE FOR PAVED AREAS



45° SUBMOUNTING BRACKET



REV.	DATE	REVISION DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/11/2009

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1208_02

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

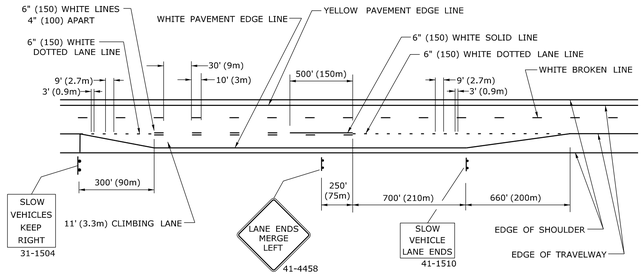
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

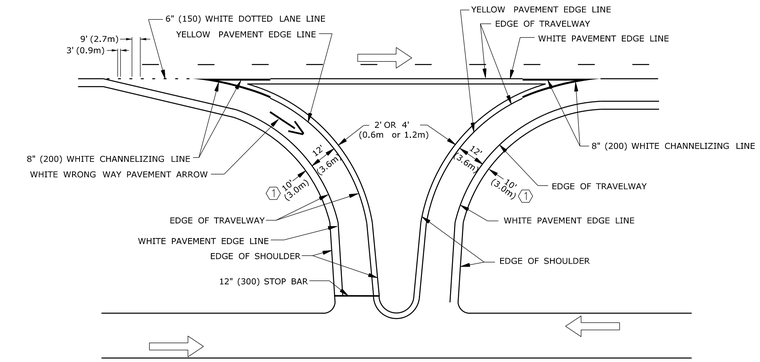
METAL SIGN POSTS AND SIGN MOUNTING DETAILS

STANDARD SHEET NO.:

TR-1208_02

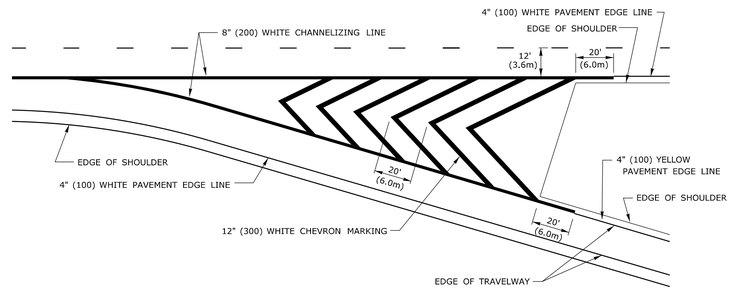


L TYPICAL CLIMBING LANE



O TYPICAL RAMP TREATMENT

1 IF WIDTH IS LESS THAN DIMENSION SHOWN, CONTACT THE ENGINEER.

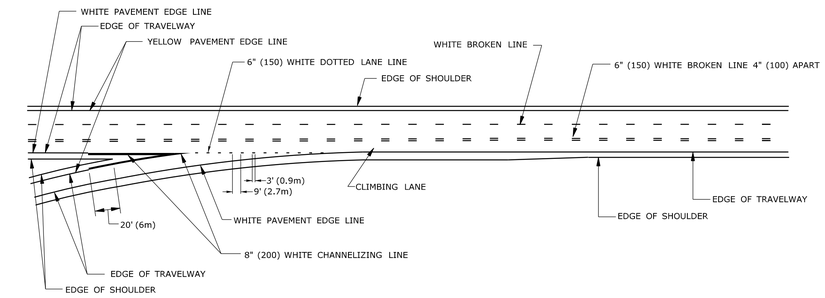


Q TYPICAL CHEVRON MARKINGS
AT GORE AREAS OF BITUMINOUS PAVEMENT

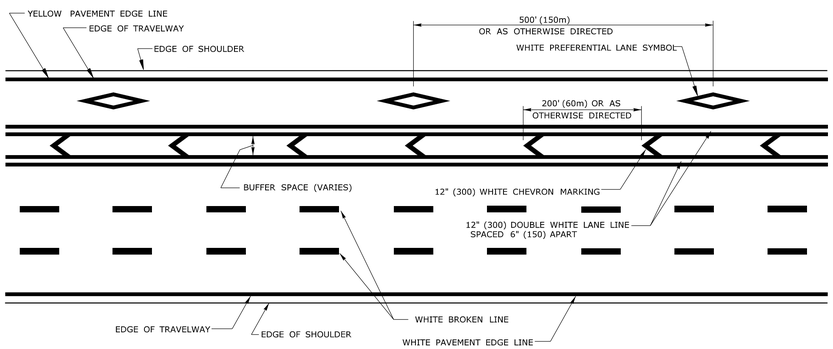
NOTES:

1. DO NOT INSTALL PREFORMED PLASTIC PAVEMENT MARKINGS ON METAL SURFACES SUCH AS EXPANSION JOINTS, MANHOLE COVERS AND UTILITY GRATE COVERS.
2. BROKEN LINES AND CLIMBING LANE BROKEN LINES - 10' (3m) LINE, 30' (9m) SPACE
3. SEE DETAILS (J) AND (K) ON STANDARD SHEET "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS" (SHEET # TR-1210_01) FOR RELATIONSHIP OF DIRECTIONAL LINES AND PAVEMENT EDGE LINE TO EDGE OF TRAVELWAY.
4. WHITE WRONG WAY PAVEMENT ARROW SHALL BE BETWEEN THE GORE AND THE FIRST SET OF WRONG WAY SIGNS.
5. WHITE WRONG WAY PAVEMENT ARROW TO BE OMITTED IF LANE USE CONTROLS ARE USED.
6. PREFORMED PLASTIC PAVEMENT MARKINGS SHALL BE INSTALLED FOR ALL 6" (150) BROKEN LANE LINES, 6" (150) CLIMBING LANE BROKEN LINE MARKINGS, 6" (150) WHITE DOTTED LANE LINES, AND 12" (300) WHITE LANE DROP MARKINGS WHEN NEW BITUMINOUS CONCRETE PAVEMENT IS INSTALLED.
7. REFER TO STANDARD SHEET "SPECIAL DETAILS AND PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS" (SHEET # TR-1210_03) FOR DETAILS OF DOUBLE YELLOW LINE AND STOP BARS.

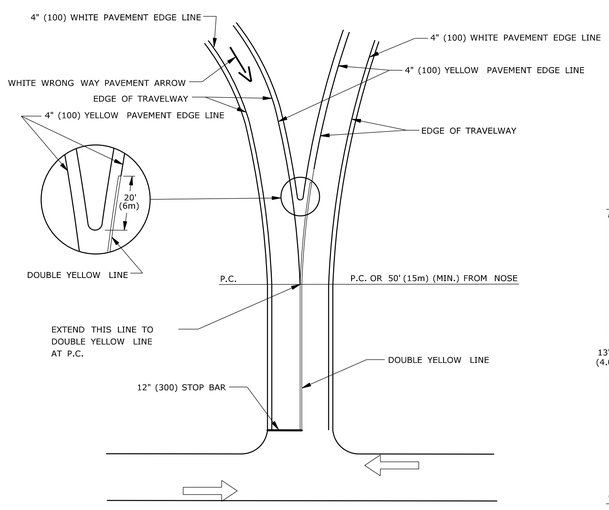
DENOTES DIRECTION OF TRAVEL



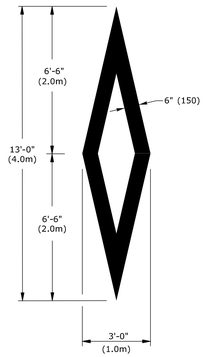
M TREATMENT OF CLIMBING LANE - THROUGH ACCELERATION LANE



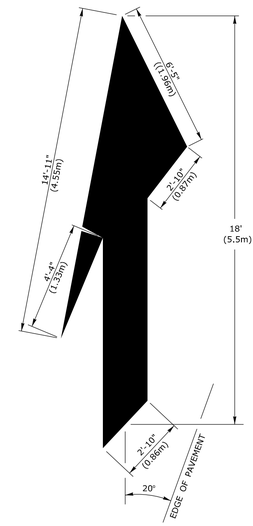
N TYPICAL HIGH OCCUPANCY
VEHICLE (HOV) LANE



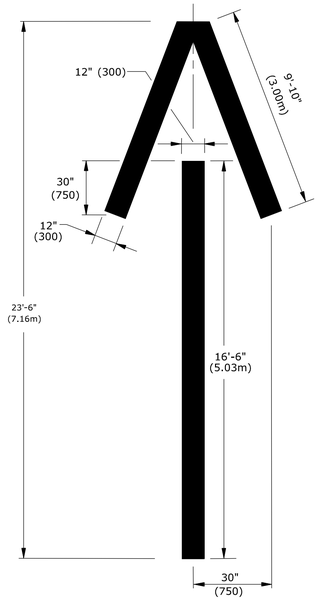
P TYPICAL CENTERLINE MARKING
ON ABUTTING RAMPS
AT INTERSECTING ROADWAYS



WHITE PREFERENTIAL
LANE SYMBOL



WHITE LANE
REDUCTION ARROW



WHITE WRONG WAY
PAVEMENT ARROW

REV.	DATE	REVISION DESCRIPTION
1	7-2010	REVISED MARKINGS TO MEET 2009 MUTCD.

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Plotted Date: 8/3/2010

DIMENSIONS ARE IN ENGLISH (.") & METRIC UNITS (mm).
METRIC DIMENSIONS ARE ROUNDED:
- OVER 1" TO NEAREST 5 mm
- UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1210_02

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

PAVEMENT MARKINGS (DURABLE MARKINGS) FOR DIVIDED HIGHWAYS

STANDARD SHEET NO.:

TR-1210_02

E5 - SERIES

E5-1

EXIT

COPY & BORDER - WHITE
BACKGROUND - GREEN

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	51-6147	2

16 - SERIES

CONSTRUCTION AHEAD
ROAD USE RESTRICTED
STATE LIABILITY LIMITED
GENERAL STATUTES SEC 13a-115, 13a-145
COMMISSIONER OF TRANSPORTATION

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16-M	5.0	30X24	80-1613	1
16-H	17.5	60X42	80-1608	2
16-E	35.0	84X60	80-1605	2

CONSTRUCTION AHEAD
SIDEWALK USE RESTRICTED
STATE LIABILITY LIMITED
GENERAL STATUTES SEC 13a-115, 13a-145
COMMISSIONER OF TRANSPORTATION

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
16-S	10.0	48X30	80-1619	2

G20 - SERIES

G20-2a

END
ROAD WORK

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	8.0	48X24	80-9612	2

ROAD WORK
NEXT 0 MILE(S)
BE PREPARED
TO STOP

VARIABLE MILEAGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	90.0	120X108	80-9728	

WORK AREA
BE PREPARED
TO STOP

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9711	1
	16.0	48	80-9712	2

NEXT 0 MILES

VARIABLE MILEAGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	7.0	72X14	80-9720	

BUSINESS ACCESS

VARIABLE ARROW
COPY & BORDER - WHITE
BACKGROUND - BLUE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	50-5934	1

There are better roads ahead
Call (860) 594-2468
with your questions/comments
A message from Governor M. Jodi Rell and The Department of Transportation

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	15.0	60X36	50-5935	1
	40.0	96X60	50-5925	2

M4 - SERIES

M4-8

DETOUR

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	2.0	24X12	80-9707	1

M4-9b

DETOUR

VARIABLE ARROW

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	5.0	30X24	80-9703	1

M4-8a

END DETOUR

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	3.0	24X18	80-9708	1

M4-9b

DETOUR

VARIABLE ARROW

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	6.25	30X30	80-9706	1

M4-10

(R) DETOUR
(L) DETOUR

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	6.0	48X18	80-9701R	2
	6.0	48X18	80-9702L	2

DETOUR

VARIABLE ARROW

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	5.0	30X24	80-9710	2

R1 - SERIES

R1-1

STOP

*
COPY & BORDER - WHITE
BACKGROUND - RED

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	5.19	30	31-0552	1
	13.30	48	31-0557	2

R1-2

YIELD

*
COPY & BORDER - RED
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	3.90	36	31-0523	1
	10.83	60	31-0528	2

R4 - SERIES

R4-7

COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	5.0	24X30	31-1526	1

R9 & R11 - SERIES

R9-9

SIDEWALK CLOSED

COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	3.75	30X18	80-9076	1

R11-3a

ROAD CLOSED
00 MILES AHEAD
LOCAL TRAFFIC ONLY

VARIABLE MILEAGE
COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	12.5	60X30	80-9077	2

R9-11

SIDEWALK CLOSED AHEAD
CROSS HERE

VARIABLE ARROW
COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	2.0	24X12	80-9074	1

R11-3b

BRIDGE CLOSED
00 MILES AHEAD
LOCAL TRAFFIC ONLY

VARIABLE MILEAGE
COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	12.5	60X30	80-9078	2

R9-11a

SIDEWALK CLOSED
CROSS HERE

VARIABLE ARROW
COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	2.0	24X12	80-9075	1

R11-3b

ROAD CLOSED TO THRU TRAFFIC

COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	12.5	60X30	80-9081	2

R11-2

ROAD CLOSED

COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	10.0	48X30	80-9080	2

ROAD WORK AHEAD
FINES DOUBLED

COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	14.0	48X42	31-1906	2
	22.5	60X54	31-1907	2
	30.0	72X60	31-1908	2

W1 - SERIES

W1-4

(L) (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9432L	1
	9.0	36	80-9431R	1
	16.0	48	80-9452L	2
	16.0	48	80-9451R	2

W1-6

(L or R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	4.5	36X18	80-9422	1
	8.0	48X24	80-9424	2

W1-8

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	1.5	12X18	80-9402	1
	5.0	24X30	80-9403	1
	7.5	30X36	80-9404	1

BOTH LANES SHIFT LEFT AHEAD (L) BOTH LANES SHIFT RIGHT AHEAD (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9433L	2
	16.0	48	80-9435R	2

AHEAD (L) AHEAD (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	25.0	60	80-9483L	2
	25.0	60	80-9485R	2

BOTH LANES SHIFT LEFT (L) BOTH LANES SHIFT RIGHT (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9434L	2
	16.0	48	80-9436R	2

AHEAD (L) AHEAD (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	25.0	60	80-9443L	2
	25.0	60	80-9445R	2

(L) (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	25.0	60	80-9444L	2
	25.0	60	80-9446R	2

(L) (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	25.0	60	80-9484L	2
	25.0	60	80-9486R	2

W3 - SERIES

W3-1

STOP AHEAD

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9808	1

W3-1a

OCTAGON - RED W/ WHITE BORDER
ARROW & BORDER - BLACK
BACKGROUND - ORANGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9050	1
	16.0	48	80-9051	2

W3-2a

TRIANGLE - RED W/ WHITE BORDER
ARROW & BORDER - BLACK
BACKGROUND - ORANGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9054	1
	16.0	48	80-9055	2

W3-3

TOP CIRCLE - RED
MIDDLE CIRCLE - YELLOW
BOTTOM CIRCLE - GREEN
COPY & BORDER - BLACK
BACKGROUND - ORANGE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9052	1
	16.0	48	80-9053	2

W4-W6 - SERIES

W4-2

(L) (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9918L	2
	16.0	48	80-9917R	2

W6-3

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9945	2

W8-W9 - SERIES

W8-1

BUMP

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9901	1
	16.0	48	80-9902	2

BUMP AHEAD

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9801	1
	16.0	48	80-9802	2

W9-2

LANE ENDS MERGE LEFT (L) LANE ENDS MERGE RIGHT (R)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9910L	2
	16.0	48	80-9911R	2

W13 - SERIES

W13-1

00 M.P.H.

SUBPLATE
VARIABLE SPEED

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	2.25	18	80-9568	1
	4.0	24	80-9569	1

REDUCE SPEED TO 00 MPH

VARIABLE SPEED

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9506	1
	16.0	48	80-9508	2

SPEED LIMIT AHEAD
00 MPH

VARIABLE SPEED

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	12.0	72X24	80-9519	2

W20 - SERIES

W20-1

ROAD WORK AHEAD

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	6.25	30	80-9602	1
	9.0	36	80-9603	1
	16.0	48	80-9604	2

LEFT LANES CLOSED (L) RIGHT LANES CLOSED (R)

		AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)		16.0	48	80-9836	2
(R)		16.0	48	80-9839	2

W20-7a

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9803	1
	16.0	48	80-9804	2

W20-1

ROAD WORK 0000 FT

VARIABLE DISTANCE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9614	1
	16.0	48	80-9615	2

LEFT TWO LANES CLOSED AHEAD (L) RIGHT TWO LANES CLOSED AHEAD (R)

		AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)		16.0	48	80-9837	2
(R)		16.0	48	80-9838	2

SLOW MOVING TRUCKS AHEAD

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	32.0	96X48	80-9815	

W20-2

DETOUR 1000 FT

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9805	1
	16.0	48	80-9806	2

LEFT LANE CLOSED AHEAD (L) RIGHT LANE CLOSED AHEAD (R)

		AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)		16.0	48	80-9847	2
(R)		16.0	48	80-9848	2

(A) AHEAD
(B) 1/2 MILE
(C) 1 MILE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	1.66	30X8	80-9829	

W20-4

ONE LANE ROAD AHEAD

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9834	1
	16.0	48	80-9835	2

LEFT LANE CLOSED (L) RIGHT LANE CLOSED (R)

		AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(L)		16.0	48	80-9846	2
(R)		16.0	48	80-9849	2

W21 - SERIES

W21-6

SURVEY CREW

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9607	1

PEDESTRIAN DETOUR

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	2.0	24X12	80-9912	1

W22 - SERIES

W22-1

BLASTING ZONE 1000 FT

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9620	1
	16.0	48	80-9625	2

W22-2

TURN OFF 2-WAY RADIO AND CELL PHONE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	10.5	42X36	80-9623	2

W22-3

END BLASTING ZONE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	7.5	36X30	80-9622	1
	10.5	42X36	80-9621	2

(VARIABLE LEGEND)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	4.17	60X10	80-9913	2
	12.0	96X18	80-9914	2
	3.33	48X10	80-9916	2

BLANK OR VARIABLE LEGEND

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	80-9933	1
	16.0	48	80-9934	2

(VARIABLE LEGEND)

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	12.5	60X30	80-9928	2
	24.0	72X48	80-9929	2

WHITE
ORANGE
NEW SIGNAL IN OPERATION

COPY & BORDER - BLACK
BACKGROUND - WHITE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	9.0	36	41-0820	

STAY IN LINE

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9951	2

USE SHOULDER

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	16.0	48	80-9956	2

SHOULDER CLOSED AHEAD (1) SHOULDER CLOSED (2)

		AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
(1)		16.0	48	80-9957	2
(2)		9.0	36	80-9958	1
(2)		16.0	48	80-9959	2

STOP-SLOW PADDLE

SIDE A * STOP
SIDE B * SLOW

SIDE A
BACKGROUND - RED
COPY & BORDER - WHITE
SIDE B
BACKGROUND - ORANGE
COPY & BORDER - BLACK PLAIN

	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS
	2.51	19	80-9950	PADDLE

METRIC CONVERSION CHART
(1'' = 25mm)

ENGLISH	METRIC	ENGLISH	METRIC
12''	300	60''	1500
18''	450	66''	1650
24''	600	72''	1800
30''	750	78''	1950
36''	900	84''	2100
42''	1050	90''	2250
48''	1200	96''	2400
54''	1350		

NOTES:

FOR METRIC SEE CONVERSION CHART.
1. R1-SERIES SIGN THE LEGEND "S.T.C." SHALL APPEAR.
2. POSTS - SEE TYPICAL SHEET (SHT #9) - "TYPICAL METAL SIGN POSTS AND SIGN MOUNTING DETAILS".
3. POSTS - TYPE A (EXCEPT WHERE NOTED WITH A "B" FOR TYPE B)
4. ALL POSTS NOTED ARE FOR LONG TERM INSTALLATION. SEE TYPICAL SHEET (SHT #9)
5. FOR TEMPORARY SUPPORTS SEE TYPICAL SHEET (SHT #23A) - "TYPICAL CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES".
6. FOR SPECIFIC SIGN DESIGN, CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
7. ALL CONSTRUCTION SIGNS TO BE PAID FOR UNDER THE CONSTRUCTION SIGNS ITEM IN THE CONTRACT.
8. MATERIALS & COLORS SHALL CONFORM TO STATE SPECIFICATIONS

MATERIALS:
SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3). ALUMINUM THICKNESS FOR POST MOUNTED SIGNS SHALL BE .100 EXCEPT SIGN #s. 80-9815, 80-9728, 80-9519, & 51-6147 (L OR R) WHICH SHALL BE .125, PLYWOOD THICKNESS FOR POST MOUNTED SIGNS SHALL BE 1/2 " EXTERIOR GRADE A-C OR BETTER. SIGN BLANKS SHALL HAVE ONE COAT OF PRIMER PAINT PRIOR TO APPLICATION OF RETROREFLECTIVE SHEETING & COPY.

ALL COLORS SHALL BE RETROREFLECTIVE WITH THE EXCEPTION OF BLACK WHICH SHALL BE OPAQUE.
COLORS: (UNLESS OTHERWISE SPECIFIED)
LEGEND - BLACK PLAIN
BACKGROUND - ORANGE RETROREFLECTIVE
* SIGNS TO BE "BRIGHT WIDE ANGLE RETROREFLECTIVE SHEETING.

REV.	DATE	REVISION DESCRIPTION
-		

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/11/2009

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1220_01

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

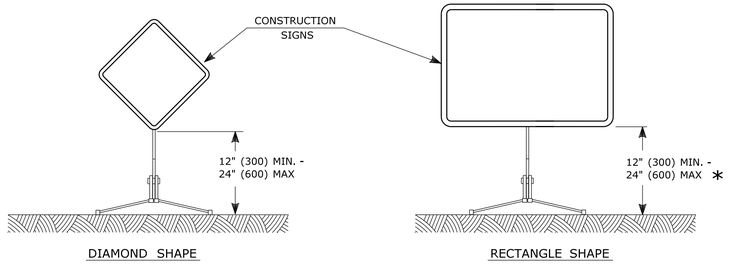
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS

STANDARD SHEET NO.:

TR-1220_01

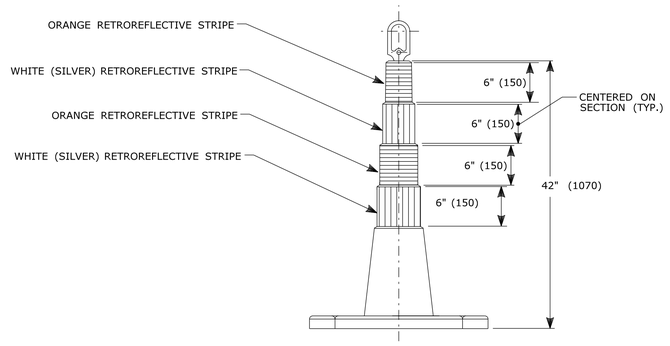


CONSTRUCTION SIGNS

NOTES FOR PORTABLE SIGN SUPPORTS:

1. SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
2. MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" (300) AND A MAXIMUM OF 24" (600). SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
3. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
4. PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3).

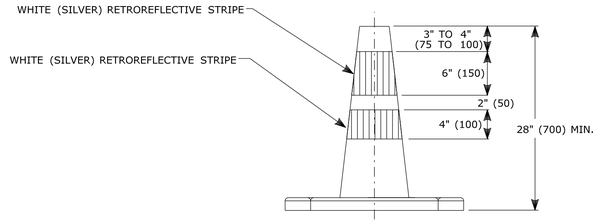
* FOR EXIT SIGNS, USE MIN. 72" (1800).



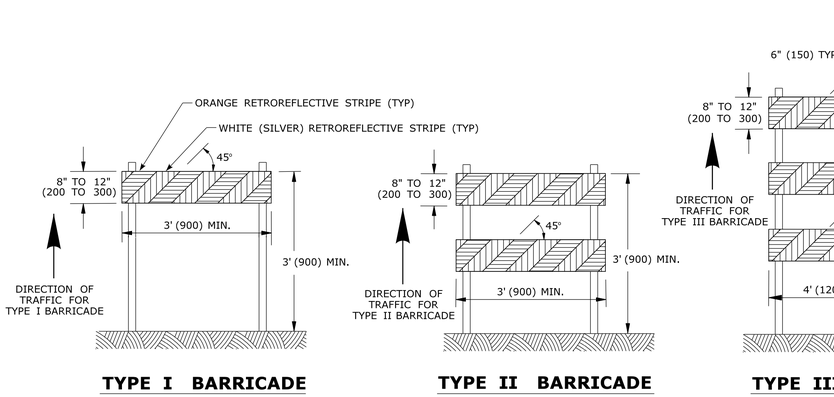
42" (1m) TRAFFIC CONE

NOTES:

1. TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
2. IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
3. IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.



TRAFFIC CONE



TYPE I BARRICADE

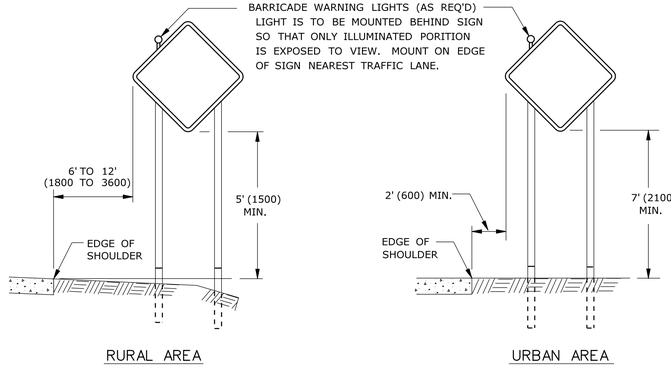
TYPE II BARRICADE

TYPE III BARRICADE

CONSTRUCTION BARRICADES

NOTES:

1. CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
2. MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" (150) WIDE STRIPES SHALL BE USED.
3. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. RAILS FOR TYPE I AND TYPE II BARRICADES SHALL BE RETROREFLECTIVE ON BOTH SIDES. WHERE TRAFFIC PASSES ONLY IN ONE DIRECTION OF TRAVEL, ONLY THE SIDE FACING TRAFFIC SHALL BE RETROREFLECTIVE.
4. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
5. CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
6. SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.



RURAL AREA

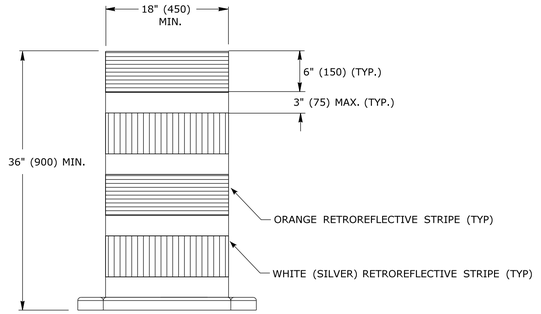
URBAN AREA

PLACEMENT OF CONSTRUCTION SIGNS TYPICAL LONG TERM INSTALLATION

NOTES:

SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES.

SEE TYPICAL SHEETS:
"TYPICAL SIGN SUPPORT AND SIGN PLACEMENT DETAILS-GORE EXIT SIGN"
"TYPICAL METAL SIGN POSTS AND SIGN MOUNTING DETAILS"



TRAFFIC DRUM FRONT VIEW

NOTES:

1. TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
2. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
3. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
4. THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

REV.	DATE	REVISION DESCRIPTION
-		

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Plotted Date: 9/11/2009

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1220_02

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

CONSTRUCTION SIGN SUPPORTS & CHANNELIZING DEVICES

STANDARD SHEET NO.:

TR-1220_02