SITE PLAN LEGEND:

SYMBOL	DESCRIPTION:
	MEDIUM DUTY ASPHALT DRIVEWAY PAVEMENT
	SOD ISLAND
	CHIP SEAL TREATMENT, ITEM 410.01010006
	PAVERS
	BOLLARDS
	NEW UTILITY MH
	NEW CATCH BASIN
HH	NEW HAND HOLE (PRIVATE ELECTRIC)
	NEW HAND HOLE (STREET LIGHTING)
FIBER HH	NEW FIBER HAND HOLE
	CIRCULATION PIPE HAND HOLE
	NEW RG&E STRUCTURE
	NEW SITE LIGHTING
	NEW HYDRANT W/ GUARD VALVE
	NEW VALVE
	NEW CAP OR PLUG
CO	NEW CLEAN OUT
	NEW UTILITY PEDESTAL
	NEW FIRE PEDESTAL
	BOLLARD W/LED LIGHT
	NEW SIGN UPLIGHT
	NEW TREE UPLIGHT
	FLAGPOLE W/ NEW FLUSH - MOUNT UPLIGHT
	BOLLARD W/CABLE RAIL
	GANGWAY GATE
	DECORATIVE TIMBER RAIL

30 0 30 60 90 120

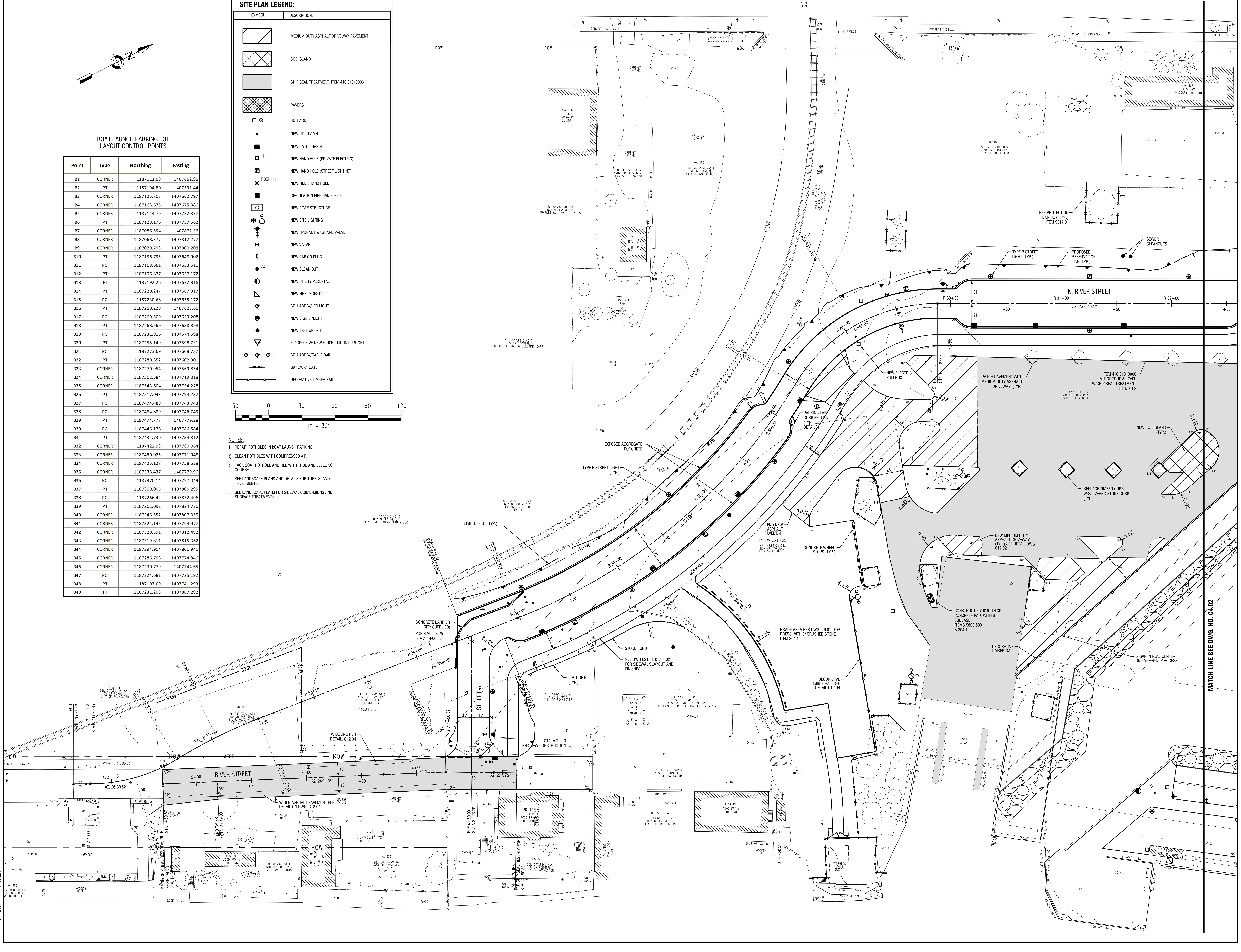
1" = 30'

NOTES:

1. REPAIR POTHOLES IN BOAT LAUNCH PARKING.
a) CLEAN POTHOLES WITH COMPRESSED AIR.
b) TACK COAT POTHOLE AND FILL WITH TRUE AND LEVELING COURSE.
2. SEE LANDSCAPE PLANS AND DETAILS FOR TURF ISLAND TREATMENTS.
3. SEE LANDSCAPE PLANS FOR SIDEWALK DIMENSIONS AND SURFACE TREATMENTS.

BOAT LAUNCH PARKING LOT
LAYOUT CONTROL POINTS

Point	Type	Northing	Easting
B1	CORNER	1187011.09	1407662.95
B2	PT	1187194.80	1407591.44
B3	CORNER	1187125.707	1407662.797
B4	CORNER	1187163.675	1407675.386
B5	CORNER	1187144.79	1407732.337
B6	PT	1187128.176	1407737.562
B7	CORNER	1187086.594	1407871.36
B8	CORNER	1187068.377	1407812.277
B9	CORNER	1187029.793	1407800.208
B10	PT	1187136.735	1407648.902
B11	PC	1187168.661	1407633.511
B12	PT	1187196.877	1407657.172
B13	PI	1187192.26	1407672.316
B14	PT	1187220.247	1407667.817
B15	PC	1187230.68	1407635.172
B16	PT	1187259.229	1407623.66
B17	PC	1187269.509	1407629.208
B18	PT	1187268.569	1407638.398
B19	PC	1187231.916	1407574.598
B20	PT	1187255.149	1407598.731
B21	PC	1187273.69	1407608.737
B22	PT	1187280.852	1407602.901
B23	CORNER	1187270.954	1407569.854
B24	CORNER	1187562.584	1407719.018
B25	CORNER	1187543.604	1407754.228
B26	PT	1187517.043	1407794.287
B27	PC	1187474.489	1407743.743
B28	PC	1187484.889	1407746.743
B29	PT	1187474.777	1407779.28
B30	PC	1187446.178	1407786.584
B31	PT	1187431.739	1407784.812
B32	CORNER	1187422.93	1407780.064
B33	CORNER	1187450.025	1407771.948
B34	CORNER	1187425.128	1407758.528
B35	CORNER	1187338.437	1407779.96
B36	PC	1187370.14	1407797.049
B37	PT	1187369.005	1407806.295
B38	PC	1187266.42	1407832.496
B39	PT	1187261.092	1407824.776
B40	CORNER	1187346.552	1407807.055
B41	CORNER	1187324.145	1407794.977
B42	CORNER	1187329.391	1407812.492
B43	CORNER	1187319.811	1407815.362
B44	CORNER	1187294.914	1407801.941
B45	CORNER	1187286.798	1407774.846
B46	CORNER	1187230.779	1407744.65
B47	PC	1187224.681	1407725.192
B48	PT	1187197.69	1407741.293
B49	PI	1187231.208	1407867.292



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PORT OF ROCHESTER MARINA DEVELOPMENT PROJECT
ROCHESTER, NY

City of Rochester

NO.	DATE	REVISION
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ISSUED FOR

BID

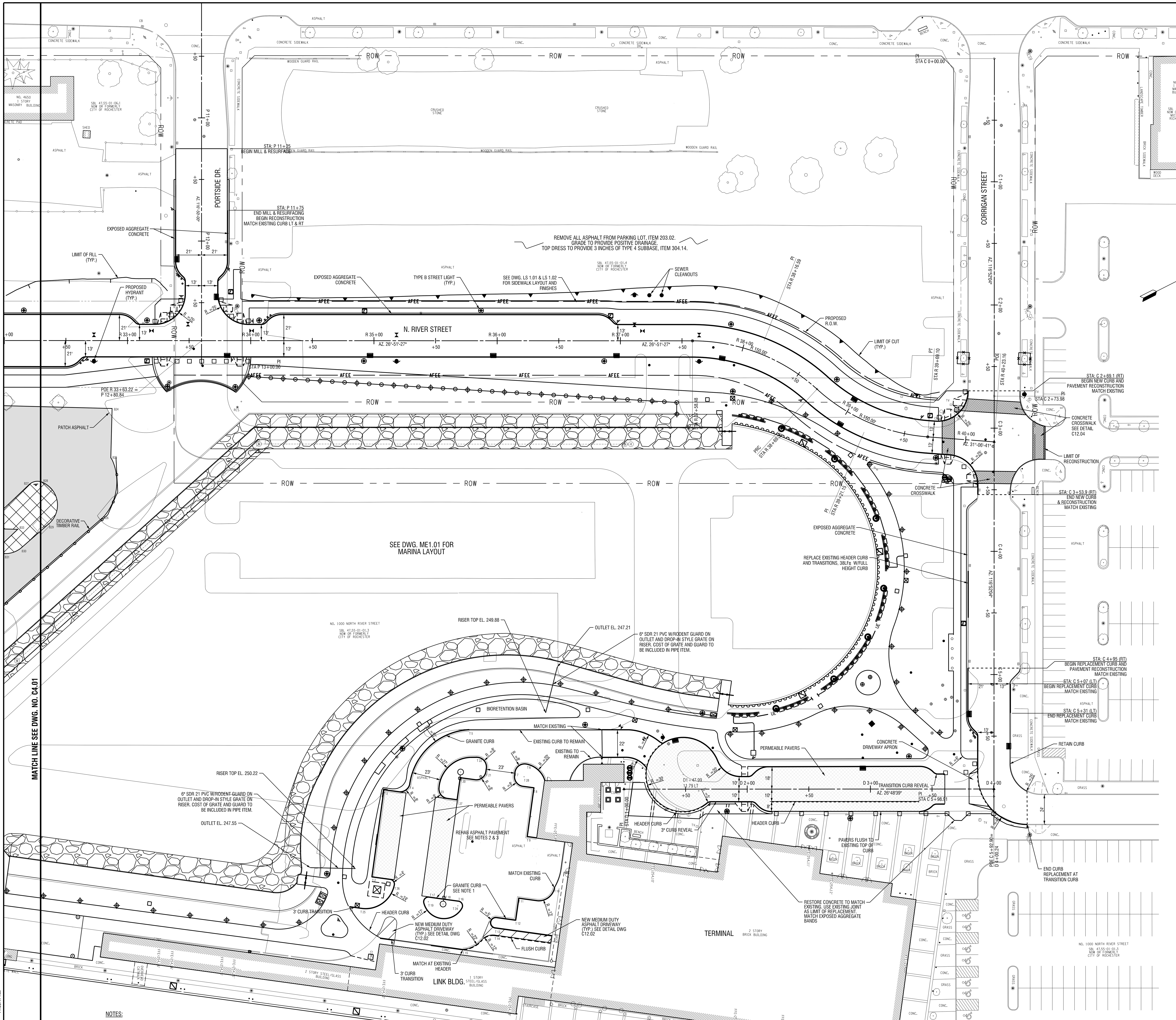
DRAWING TITLE

SITE PLAN

DATE:	JULY 22, 2013
SCALE:	1" = 30'
DESIGNED BY:	CAE
DRAWN BY:	CAE
REVIEWED BY:	RTV
PROJECT NUMBER:	210660

DRAWING NUMBER

C4.01



SITE PLAN LEGEND:

SYMBOL	DESCRIPTION:
	MEDIUM DUTY ASPHALT DRIVEWAY PAVEMENT
	SOD ISLAND
	CHIP SEAL TREATMENT, ITEM 410.01010006
	PAVERS
	BOLLARDS
	NEW UTILITY MH
	NEW CATCH BASIN
HH	NEW HAND HOLE (PRIVATE ELECTRIC)
	NEW HAND HOLE (STREET LIGHTING)
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	NEW RG&E STRUCTURE
	NEW SITE LIGHTING
	NEW HYDRANT W/ GUARD VALVE
	NEW VALVE
	NEW CAP OR PLUG
CO	NEW CLEAN OUT
	NEW UTILITY PEDESTAL
	NEW FIRE PEDESTAL
	BOLLARD W/LED LIGHT
	NEW SIGN UPLIGHT
	NEW TREE UPLIGHT
	FLAGPOLE W/ NEW FLUSH - MOUNT UPLIGHT
	BOLLARD W/CABLE RAIL
	GANGWAY GATE
	DECORATIVE TIMBER RAIL

PARKING LOT LAYOUT CONTROL POINTS

Point	Type	Northing	Easting
T1	CORNER	1187551.872	1408167.068
T2	CORNER	1187579.386	1408153.39
T3	CORNER	1187619.778	1408094.999
T4	PC/PT	1187640.533	1408100.408
T5	PC/PT	1187703.449	1408082.695
T6	PC/PT	1187732.907	1408128.561
T7	PC/PT	1187721.263	1408129.402
T8	CORNER	1187728.759	1408148.355
T9	CORNER	1187706.032	1408181.223
T10	PC/PT	1187707.287	1408228.044
T11	CORNER	1187677.572	1408222.382
T12	CORNER	1187667.253	1408237.131
T13	PC/PT	1187649.467	1408235.775
T14	PC/PT	1187646.684	1408240.622
T15	PC/PT	1187618.382	1408239.252
T16	PC/PT	1187632.993	1408202.614
T17	PC/PT	1187613.117	1408188.864
T18	CENTER	1187623.504	1408195.09
T19	CENTER	1187610.84	1408192.153
T20	CORNER	1187679.428	1408114.243
T21	PC/PT	1187700.428	1408119.041
T22	PC/PT	1187698.994	1408105.112
T23	PC/PT	1187659.883	1408113.774
T24	CENTER	1187630.718	1408205.904
T25	PC/PT	1187559.21	1408172.14
T26	PC/PT	1187592.531	1408167.602
T27	CORNER	1187669.125	1408129.136
T28	CENTER	1187725.952	1408136.686

30 0 30 60 90 120
1" = 30'

NOTES:

1. INSTALL NEW CURB IN EXISTING ASPHALT. REFER TO CURB REPLACEMENT DETAIL DWG. C12.03.
2. REPAIR UTILITY TRENCHES AND REMOVAL CUTS WITH PARKING LOT PAVEMENT SECTION.
3. OVERLAY PARKING LOT WITH 1½" TOP COURSE, ITEM 402.097202

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ROCHESTER, NY

City of Rochester

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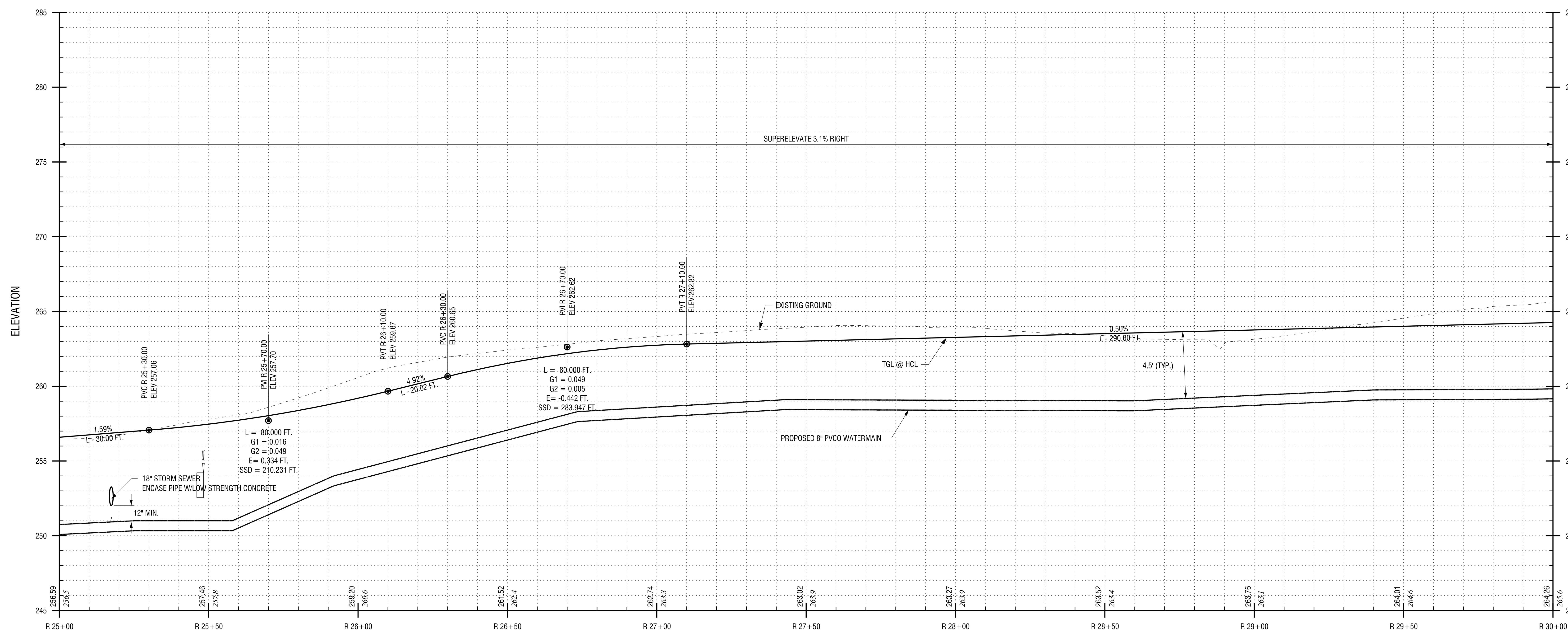
SITE PLAN

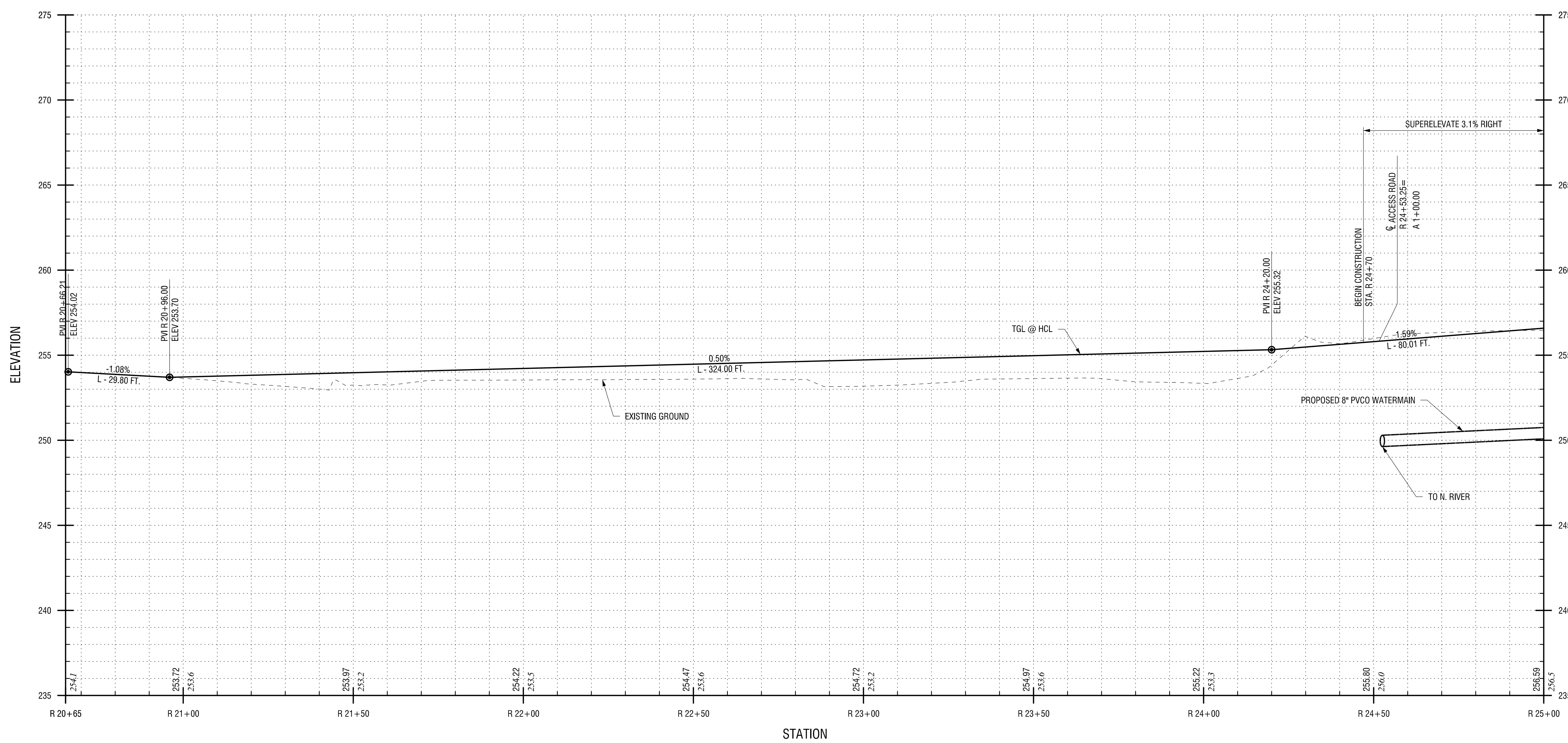
DATE:	JULY 22, 2013
SCALE:	1" = 30'
DESIGNED BY:	CAE
DRAWN BY:	CAE
REVIEWED BY:	RTV
PROJECT NUMBER:	210660

DRAWING NUMBER

C4.02



RIVER STREET PROFILE



RIVER STREET PROFILE

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ISSUED FOR

BID

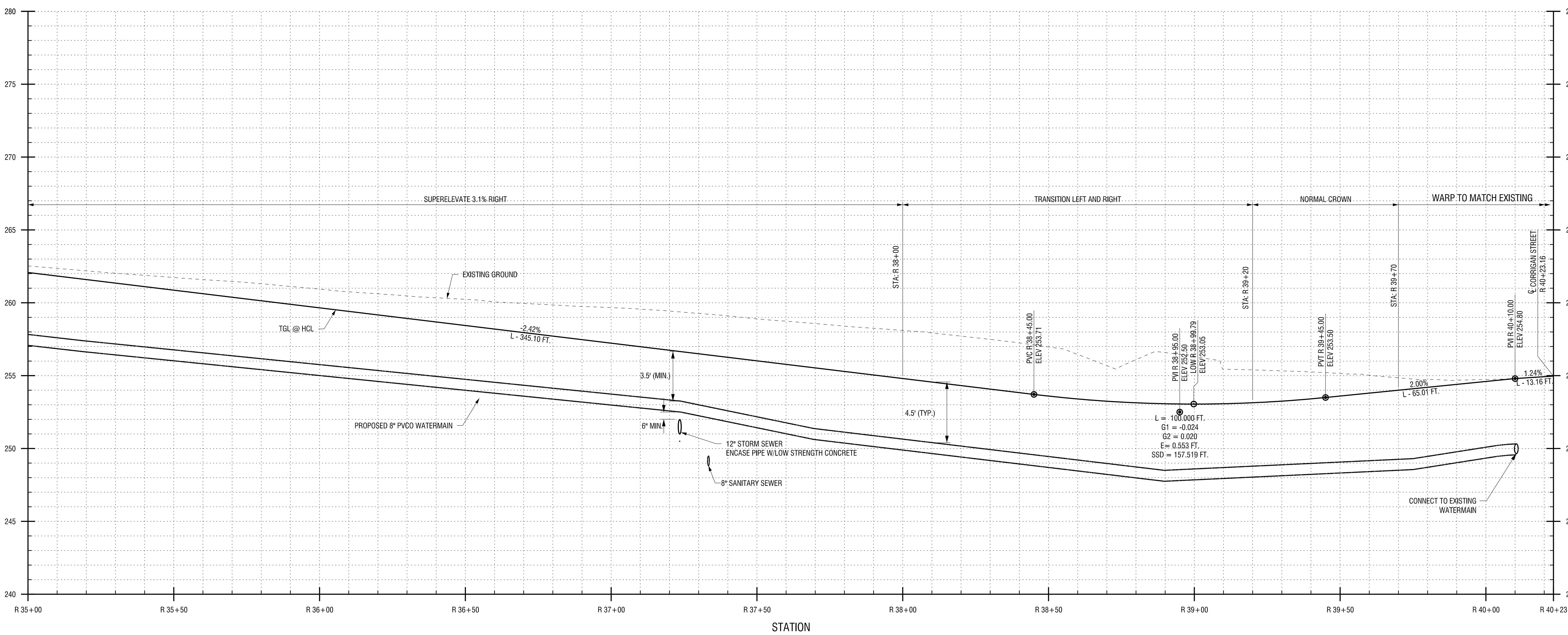
DRAWING TITLE

STREET PROFILES

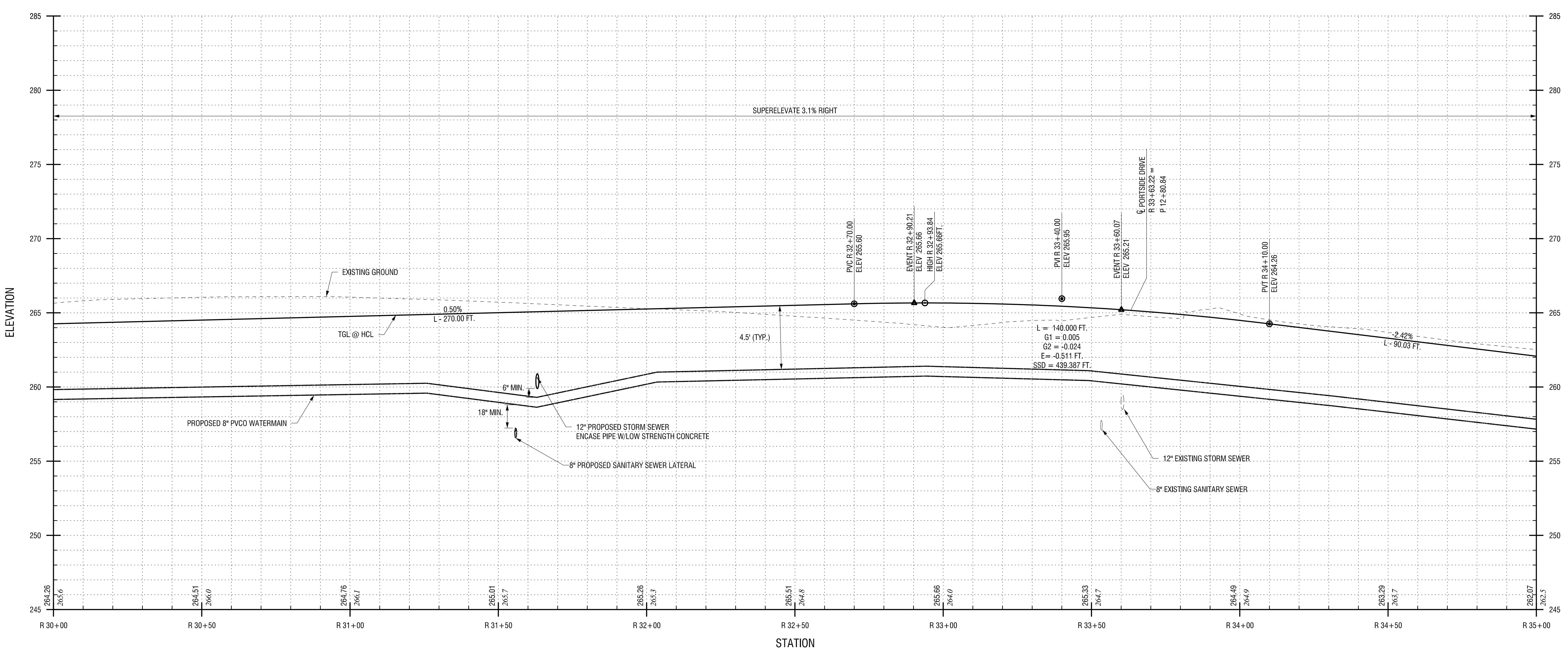
DATE:	JULY 22, 2013
SCALE:	H 1" = 20': V 1"=4'
DESIGNED BY:	CAE
DRAWN BY:	CAE
REVIEWED BY:	RTV
PROJECT NUMBER:	210660

DRAWING NUMBER

C5.01



RIVER STREET PROFILE



RIVER STREET PROFILE

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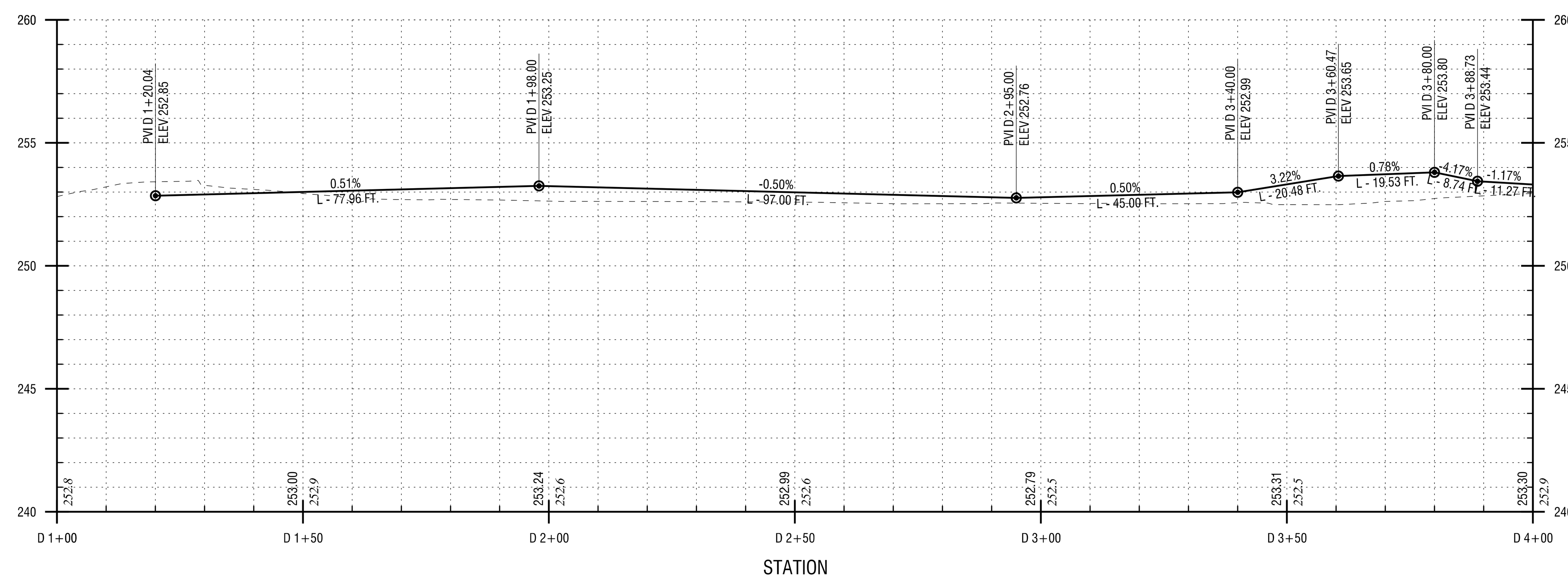
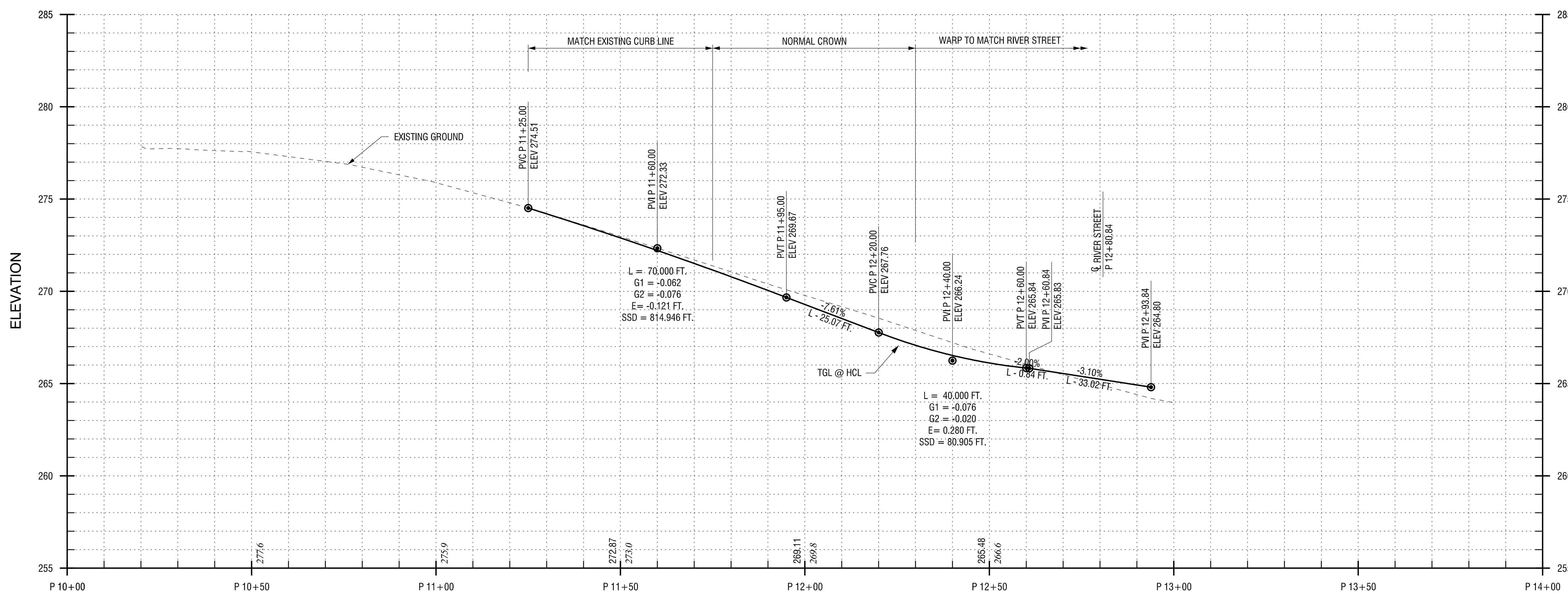
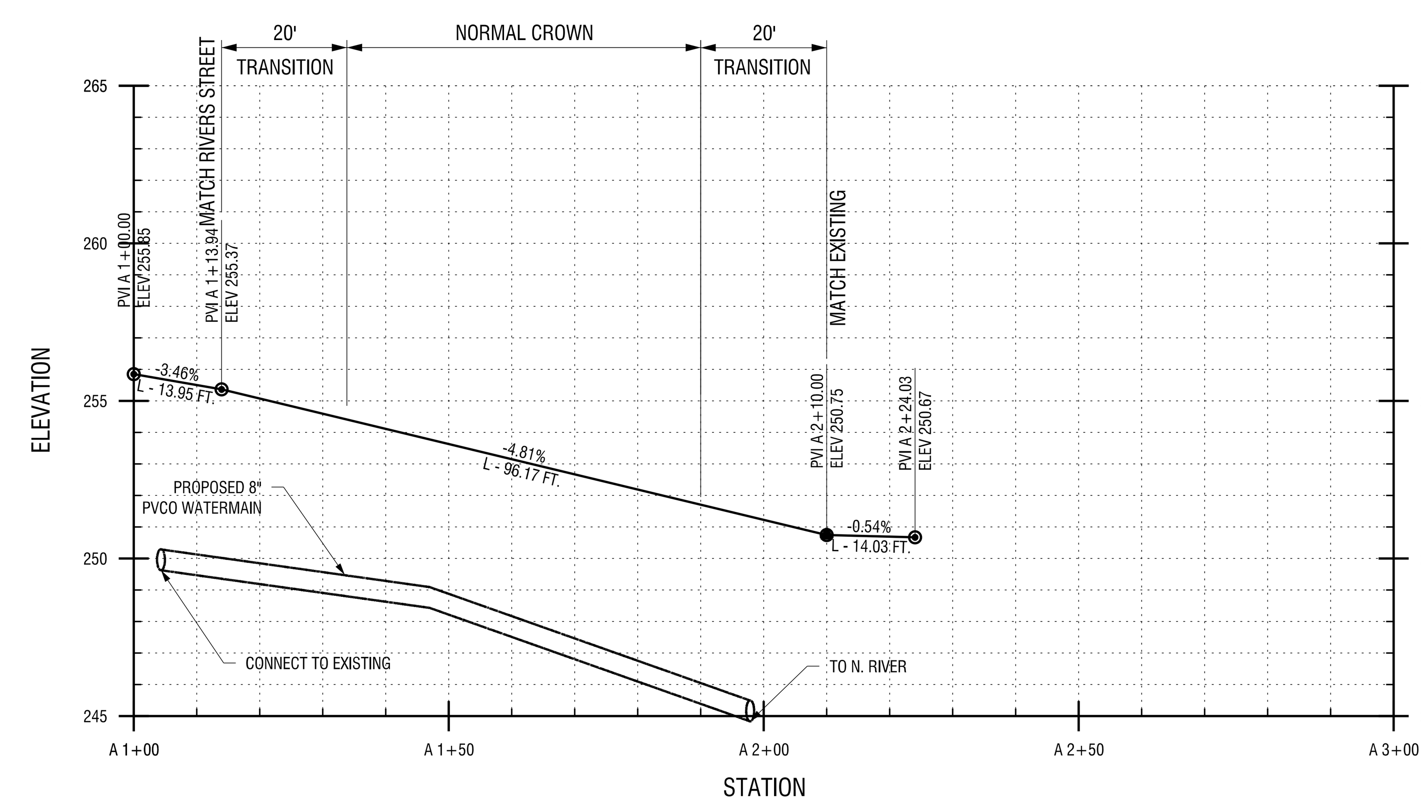


TERMINAL DROP OFF LOOP PROFILE



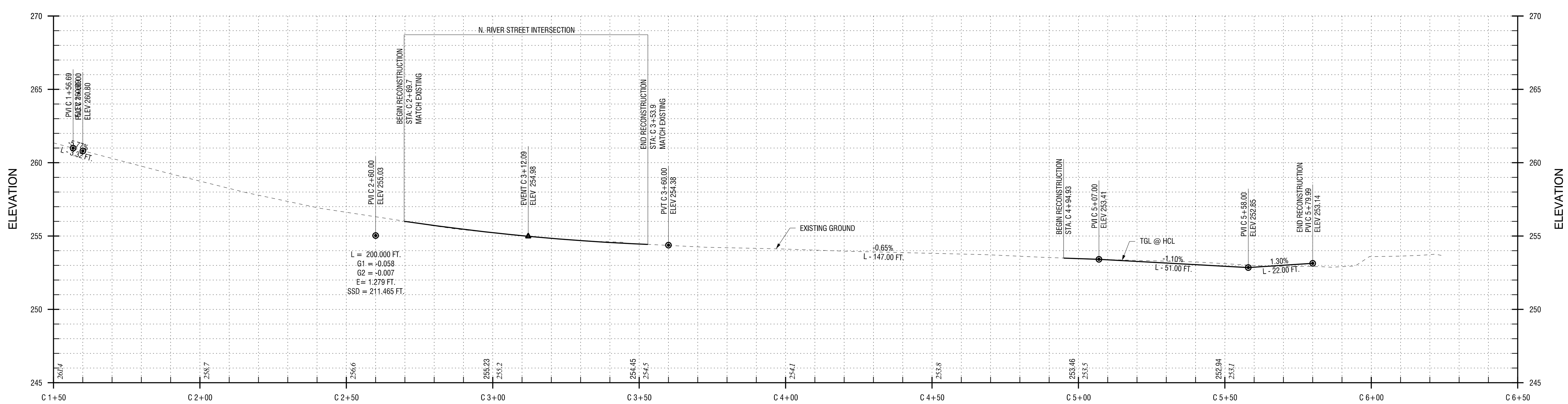
STATION

PORTSIDE DRIVE PROFILE



STATION

STREET A PROFILE



STATION

CORRIGAN STREET PROFILE

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STREET PROFILES

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REVIEWED BY:	RTV
PROJECT NUMBER:	210660

DRAWING NUMBER

C5.03

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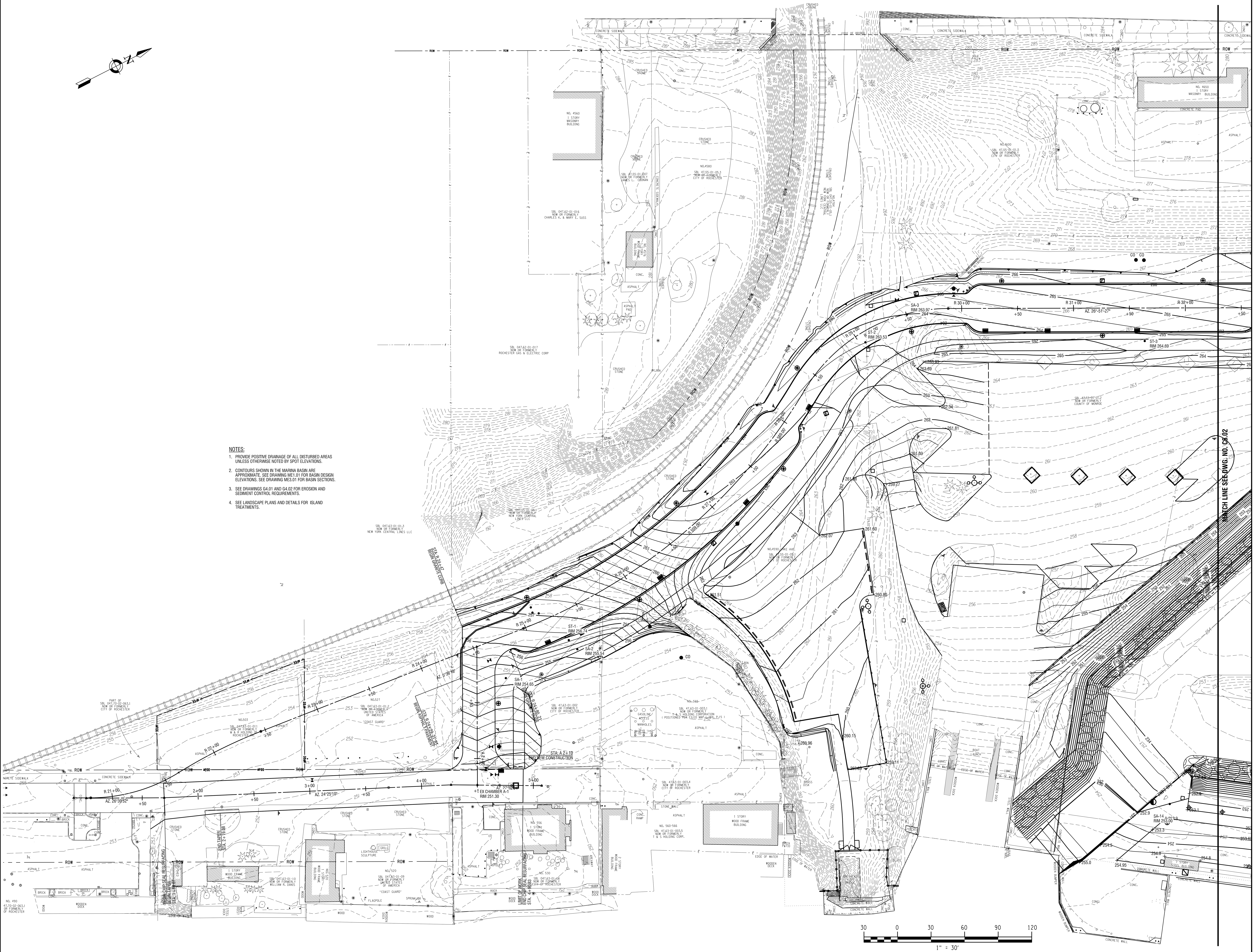

NOTES:

1. PROVIDE POSITIVE DRAINAGE OF ALL DISTURBED AREAS UNLESS OTHERWISE NOTED BY SPOT ELEVATIONS.
2. CONTOURS SHOWN IN THE MARINA BASIN ARE APPROXIMATE. SEE DRAWING ME1.01 FOR BASIN DESIGN ELEVATIONS. SEE DRAWING ME3.01 FOR BASIN SECTIONS.
3. SEE DRAWINGS G4.01 AND G4.02 FOR EROSION AND SEDIMENT CONTROL REQUIREMENTS.
4. SEE LANDSCAPE PLANS AND DETAILS FOR ISLAND TREATMENTS.

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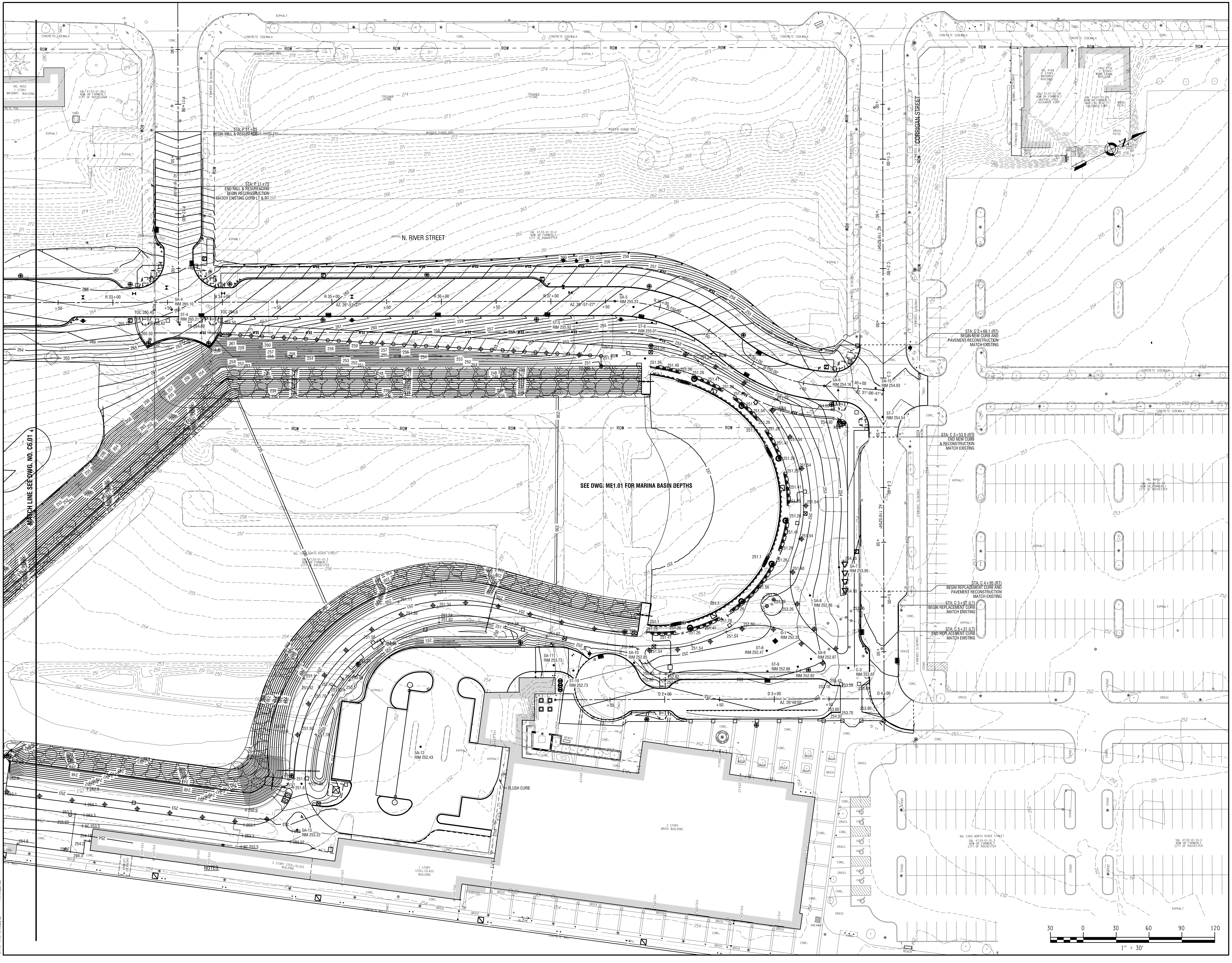
GRADING PLAN

DATE:	JULY 22, 2013
SCALE:	1" = 30'
DESIGNED BY:	CAE
DRAWN BY:	CAE
REVIEWED BY:	RTV
PROJECT NUMBER:	210660

DRAWING NUMBER

C6.01



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DRAWING TITLE

GRADING PLAN

DATE:	JULY 22, 2013
SCALE:	1" = 30'
DESIGNED BY:	CAE
DRAWN BY:	CAE
REVIEWED BY:	RTV
PROJECT NUMBER:	210660

DRAWING NUMBER

C6.02

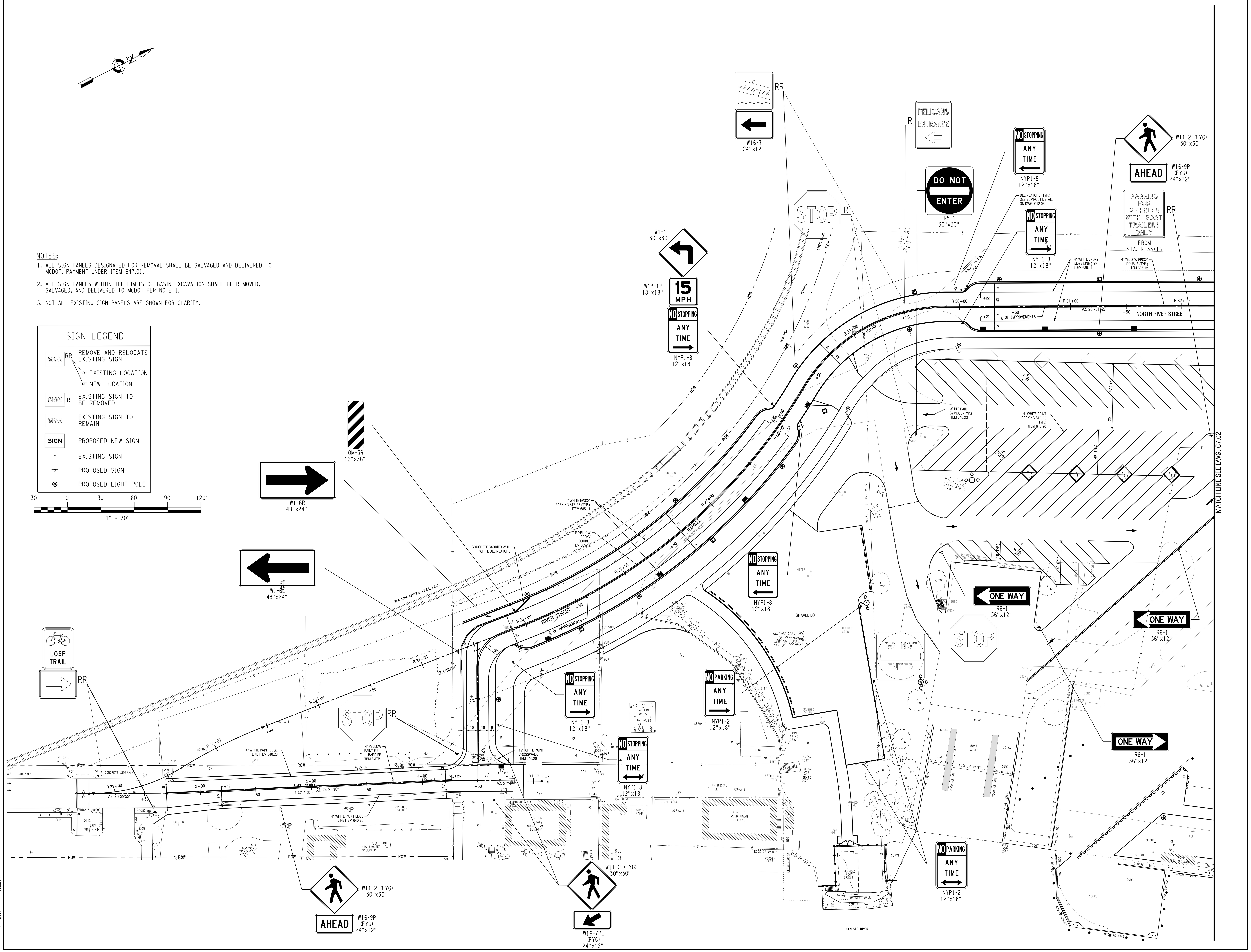
NOTES:

1. ALL SIGN PANELS DESIGNATED FOR REMOVAL SHALL BE SALVAGED AND DELIVERED TO MCDOT. PAYMENT UNDER ITEM 647.01.
2. ALL SIGN PANELS WITHIN THE LIMITS OF BASIN EXCAVATION SHALL BE REMOVED, SALVAGED, AND DELIVERED TO MCDOT PER NOTE 1.
3. NOT ALL EXISTING SIGN PANELS ARE SHOWN FOR CLARITY.

SIGN LEGEND	
SIGN RR	REMOVE AND RELOCATE EXISTING SIGN
	EXISTING LOCATION
	NEW LOCATION
SIGN R	EXISTING SIGN TO BE REMOVED
SIGN	EXISTING SIGN TO REMAIN
SIGN	PROPOSED NEW SIGN
	EXISTING SIGN
	PROPOSED SIGN
	PROPOSED LIGHT POLE

30 0 30 60 90 120'

1" = 30'



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ROCHESTER, NY

City of Rochester

NO.	DATE	REVISION

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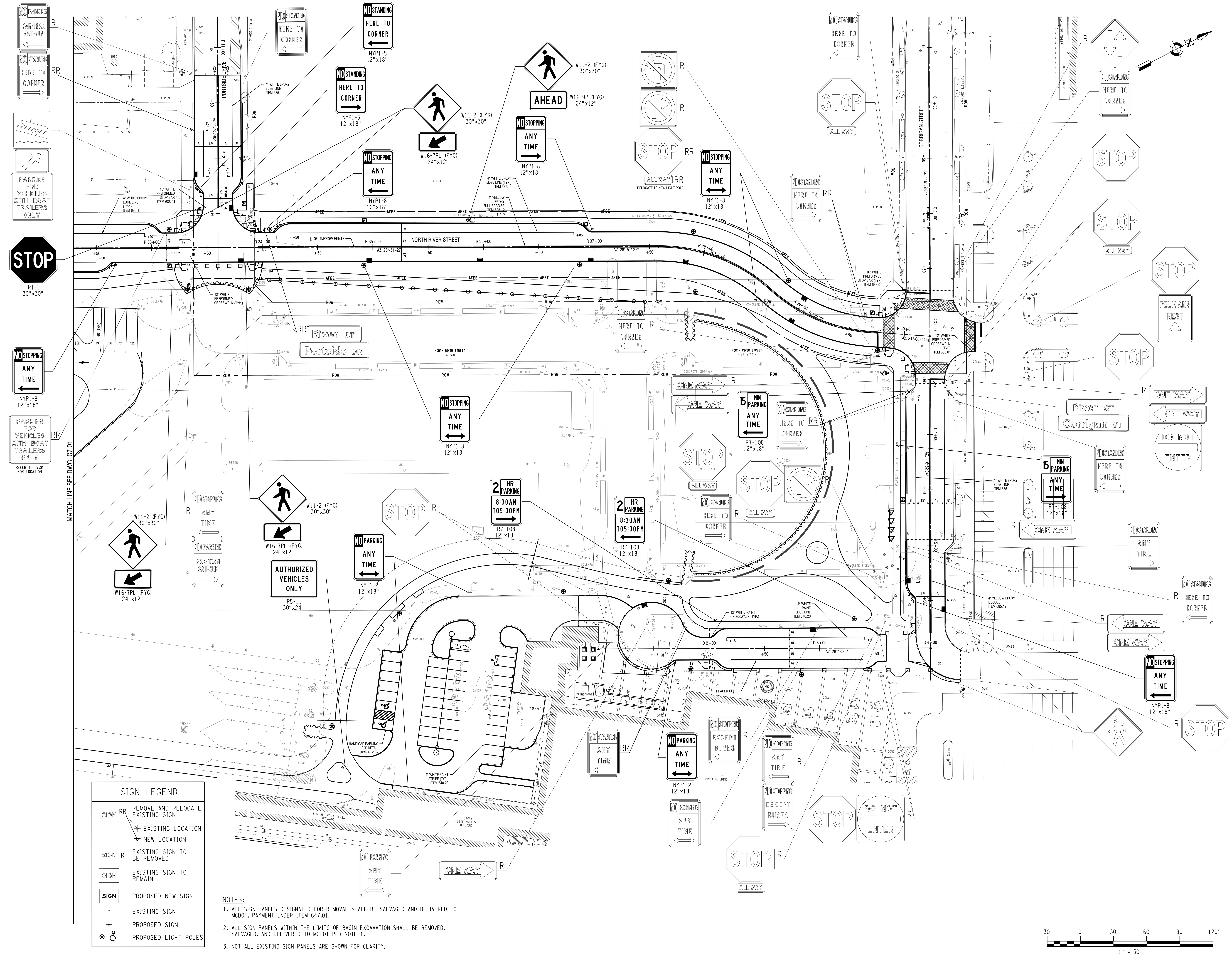
ISSUED FOR
BID

DRAWING TITLE
SIGNS/MARKINGS PLAN

DATE:	JULY 22, 2013
SCALE:	1" = 30'
DESIGNED BY:	CAE
DRAWN BY:	CON
REVIEWED BY:	WDD
PROJECT NUMBER:	210660

DRAWING NUMBER
C7.01



SIGN LEGEND

SIGN RR	REMOVE AND RELOCATE EXISTING SIGN
	EXISTING LOCATION
	NEW LOCATION
SIGN R	EXISTING SIGN TO BE REMOVED
SIGN	EXISTING SIGN TO REMAIN
SIGN	PROPOSED NEW SIGN
	EXISTING SIGN
	PROPOSED SIGN
	PROPOSED LIGHT POLES

NOTES:

1. ALL SIGN PANELS DESIGNATED FOR REMOVAL SHALL BE SALVAGED AND DELIVERED TO MCDOT. PAYMENT UNDER ITEM 647.01.
2. ALL SIGN PANELS WITHIN THE LIMITS OF BASIN EXCAVATION SHALL BE REMOVED, SALVAGED, AND DELIVERED TO MCDOT PER NOTE 1.
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ISSUED FOR

BID

DRAWING TITLE

SIGNS/MARKINGS PLAN

DATE:	JULY 22, 2013
SCALE:	1" = 30'
DESIGNED BY:	CAE
DRAWN BY:	CON
REVIEWED BY:	WDD
PROJECT NUMBER:	210660

DRAWING NUMBER

C7.02

UNDERDRAIN TABLE

ITEM NO.		DESCRIPTION		
S605.140106		6" PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN		
CENTERLINE STATION		CB NO.		SIDE
FROM	TO	FROM	TO	
R 33+21	R 31+60	HI	CB 8	RT
R 31+60	R 30+80	CB 8	CB 7	RT
R 30+80	R 30+24	CB 7	CB 6	RT
R 30+05	R 28+31		CB 5	RT
R 28+31	R 27+30	CB 5	CB 4	RT
R 27+30	R 26+30	CB 4	CB 3	RT
R 26+30	R 25+16	CB 3	CB 2	RT
R 33+21	R 33+84	HI	CB 13	RT
R 33+84	R 35+00	CB 13	CB 14	RT
R 35+00	R 36+00	CB 14	CB 15	RT
R 36+00	R 37+00	CB 15	CB 16	RT
R 37+00	R 37+88	CB 16	CB 17	RT
R 37+88	R 39+00	CB 17	CB 18	RT
R 40+08	R 39+00	HI	CB 18	RT
R 38+40	R 39+00	HI	CB 19	LT
C 02+71	R 39+00	LIMIT	CB 19	LT
P 11+75	P 12+15	LIMIT	CB 11	RT
P 11+75	P 12+45	LIMIT	CB 12	LT
D 01+97	D 01+41	HI	CB 23	LT
D 01+97	D 02+94	HI	CB 22	LT
D 03+70	D 02+94	HI	CB 22	LT

PROPOSED TABLE OF RCS MONUMENTS

POINT NAME	DESCRIPTION	NORTHING	EASTING
RCS1	INSTALL NEW HORIZONTAL CONTROL MONUMENT WITH FRAME AND COVER, ITEM 626.02	1186847.76	1407660.77
RCS2	INSTALL NEW HORIZONTAL CONTROL MONUMENT WITH FRAME AND COVER, ITEM 626.02	1187200.25	1407575.94
RCS3	INSTALL NEW HORIZONTAL CONTROL MONUMENT WITH FRAME AND COVER, ITEM 626.02	1187315.27	1407570.11
RCS4	INSTALL NEW HORIZONTAL CONTROL MONUMENT WITH FRAME AND COVER, ITEM 626.02	1187613.42	1407721.09
RCS5	INSTALL NEW HORIZONTAL CONTROL MONUMENT WITH FRAME AND COVER, ITEM 626.02	1187690.70	1407690.73
RCS6	INSTALL NEW HORIZONTAL CONTROL MONUMENT WITH FRAME AND COVER, ITEM 626.02	1188264.66	1407981.38
RCS9	INSTALL NEW HORIZONTAL CONTROL MONUMENT WITH FRAME AND COVER, ITEM 626.02	1188358.31	1407796.44
RCS10	INSTALL NEW HORIZONTAL CONTROL MONUMENT WITH FRAME AND COVER, ITEM 626.02	1188070.90	1408363.99
RCS11	REMOVE EXISTING MONUMENT	1188175.98	1408028.14

SIGN POST SLEEVE BASE

LOCATION	SIDE	OFFSET
R 24+34.1	RT	0.76
R 24+70.0	LT	19.81
R 24+77.1	RT	27.78
R 24+94.6	LT	15.57
R 28+04.6	RT	17.35
R 28+05.0	LT	16.97
R 29+94.6	LT	16.84
R 30+02.7	RT	14.18
R 32+66.7	RT	15.45
R 33+33.9	LT	22.32
R 33+84.8	RT	15.49
R 34+02.0	LT	15.94
R 34+25.6	LT	23.30
R 36+97.9	LT	16.00
R 38+65.5	RT	15.69
R 39+62.3	LT	15.92
P 11+74.3	RT	23.84
P 12+27.7	RT	19.58
P 12+44.9	RT	16.37
C 5+49.9	LT	16.35
D 1+69.2	RT	12.73
D 2+04.9	LT	25.76
D 3+64.1	LT	14.06

NOTES:
1. SIGN POST SLEEVE BASE SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 645.81.

STREET LIGHT TABLE

POLE NO.	STATION	SIDE	OFFSET	NORTHING	EASTING	COMMENT
LP-C1	C 0+05	LT	-22.7	1188347.54	1407803.92	EXISTING TO REMAIN, NO WORK
LP-C2	C 0+72	RT	24.1	1188275.39	1407842.77	EXISTING TO REMAIN, NO WORK
LP-C3	C 1+48	LT	-24.1	1188283.94	1407932.45	EXISTING TO REMAIN, NO WORK
LP-C4	C 2+62	RT	24.2	1188189.65	1408011.62	EXISTING TO REMAIN, NO WORK
LP-C5	C 3+62	LT	-24.2	1188187.34	1408123.25	EXISTING TO REMAIN, NO WORK
LP-C6	C 4+58	RT	24.6	1188100.61	1408186.45	REMOVE POLE AND FOUNDATION. INSTALL 24"PULLBOX AND CONDUIT STUBS TO REPLACE FOUNDATION, ITEM 670.3001
LP-C8	C 5+12	RT	16.0	1188112.50	1408252.82	EXISTING TO REMAIN, NO WORK
LP-M1				1187286.06	1408032.88	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-M2				1187547.65	1408134.69	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-M3				1187648.24	1408071.75	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-M4				1187789.21	1408121.37	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-M5				1187878.43	1408155.89	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-M6				1188018.36	1407933.98	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-R1	R 24+52	RT	54.2	1186801.59	1407666.45	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-R2	R 25+11	LT	-24.5	1186867.23	1407593.68	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-R3	R 25+99	RT	24.5	1186956.16	1407641.14	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-R4	R 26+78	LT	-24.5	1187024.55	1407579.10	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-R5	R 27+66	RT	24.5	1187123.98	1407595.43	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-R6	R 28+45	LT	-16.5	1187175.78	1407520.57	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-R7	R 29+50	RT	16.5	1187281.59	1407538.05	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-R8	R 30+35	LT	-24.5	1187374.02	1407534.29	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-R9	R 31+25	RT	24.5	1187432.18	1407618.66	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-R10	R 32+15	LT	-24.5	1187534.61	1407615.61	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-R11	R 33+15	RT	-16.5	1187620.20	1407667.92	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-R12	R 34+06	LT	-16.5	1187701.39	1407709.03	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-R13	R 34+91	RT	16.5	1187762.31	1407776.87	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-R14	R 35+86	LT	-24.5	1187865.59	1407783.21	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-R15	R 36+86	RT	16.5	1187936.28	1407864.97	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-R16	R 37+86	LT	-16.5	1188041.68	1407884.68	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-R17	R 38+76	LT	-16.5	1188098.05	1407963.50	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-R18	R 39+76	RT	16.5	1188140.94	1408056.50	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-SP1				1187620.66	1408199.20	INSTALL SALVAGED TYPE E1 POLE ON NEW FOUNDATION, ITEMS S671.5901, AND 670.0105
LP-SP2				1187681.76	1408110.00	INSTALL SALVAGED TYPE E1 POLE ON NEW FOUNDATION, ITEMS S671.5901, AND 670.0105
LP-D1	D 1+83	RT	18.1	1187860.21	1408236.07	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-D2	D 2+83	RT	23.8	1187946.92	1408286.33	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-D3	D 3+31	LT	-26.6	1188012.18	1408262.86	INSTALL TYPE B POLE WITH FOUNDATION, ITEMS 670.0105 AND S671.5003
LP-P1				1187709.01	1407643.09	EXISTING TO REMAIN, NO WORK
LP-P2				1187701.59	1407551.00	EXISTING TO REMAIN, NO WORK
LP-BL1				1187146.95	1407825.07	INSTALL SALVAGED TYPE E3 POLE ON NEW FOUNDATION, ITEMS S671.5903, AND 670.0105
LP-BL2				1187135.78	1407739.44	INSTALL SALVAGED TYPE E3 POLE ON NEW FOUNDATION, ITEMS S671.5903, AND 670.0105
LP-BL3				1187270.44	1407684.19	INSTALL SALVAGED TYPE E3 POLE ON NEW FOUNDATION, ITEMS S671.5903, AND 670.0105

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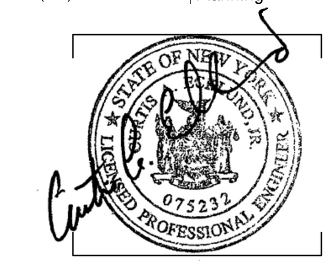

PROJECT/CLIENT

PORT OF ROCHESTER MARINA DEVELOPMENT PROJECT
ROCHESTER, NY

City of Rochester

NO.	DATE	REVISION
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ISSUED FOR
BID

DRAWING TITLE
CONSTRUCTION TABLES

DATE:	JULY 22, 2013
SCALE:	NONE
DESIGNED BY:	CAE
DRAWN BY:	CON
REVIEWED BY:	CAE
PROJECT NUMBER:	210660

DRAWING NUMBER
C8.01

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STORM MH STRUCTURE TABLE

STRUCTURE NUMBER	NORTHING	EASTING	DESCRIPTION
ST - HD1			INSTALL NEW VORTEX HYDRODYNAMIC STRUCTURE. CONNECT TO EXISTING 72" RCP (CORE) WITH NEW 18" SDR-35 PVCP.
ST - 1	N 1,186,883.69	E 1,407,644.07	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO HYDRODYNAMIC STRUCTURE WITH NEW 18" SDR-35 PVCP.
ST - 2	N 1,187,240.45	E 1,407,527.17	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO ST-1 WITH NEW 21" SDR-35 PVCP.
ST - 3	N 1,187,463.04	N 1,407,639.89	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO ST-2 WITH NEW 18" SDR-35 PVCP. CONSTRUCT NEW 12" SDR-21 PVCP LATERAL.
ST - 4	N 1,187,644.37	E 1,407,721.54	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO ST-5 WITH NEW 15" SDR-35 PVCP AND CONNECT TO EXISTING 12" PIPE FROM WEST.
ST - 5	N 1,187,967.17	E 1,407,885.00	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO ST-6 WITH NEW 15" SDR-35 PVCP. CONSTRUCT NEW 12" SDR-21 PVCP LATERAL.
ST - 6	N 1,188,028.32	E 1,407,915.97	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO ST-7 WITH NEW 24" SDR-35 PVCP.
ST - 7	N 1,188,176.04	E 1,408,086.92	INSTALL NEW 6' DIA. MANHOLE. CONNECT TO EXISTING 24" PIPE.
DS 5-18	N 1,188,038.19	E 1,408,253.19	CORE EXISTING MANHOLE. CONNECT TO ST-8 WITH NEW 18" SDR-35 PVCP.
ST - 8	N 1,187,986.83	E 1,408,230.32	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO ST-9 WITH NEW 18" SDR-35 PVCP.
ST - 9	N 1,187,977.91	E 1,408,247.66	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO ST-10 WITH NEW 18" SDR-35 PVCP.
ST - 10	N 1,187,820.41	E 1,408,166.57	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO EXISTING 8" LATERAL FROM SOUTHEAST.
C-1	N 1,187,997.44	E 1,408,226.62	6'x6' ISOLATION STRUCTURE W/ RELOCATED SLUICE GATE. CONNECT TO MARINA BASIN WALL (INLET) WITH NEW 24" SDR-35 PVCP AND STEEL PIPE.
C-2	N 1,188,005.19	E 1,408,255.27	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO C-1 WITH NEW 24" SDR-35 PVCP.
C-3	N 1,188,046.34	E 1,408,276.40	INSTALL NEW 6' DIA. MANHOLE. CONNECT TO C-2 WITH 24" SDR-35 PVCP AND CONNECT TO EXISTING 36" PIPE.

SANITARY MH STRUCTURE TABLE

STRUCTURE NUMBER	NORTHING	EASTING	DESCRIPTION
CHAMBER A-1			CORE EXISTING MH CHAMBER AND CONNECT NEW 24" SDR-35 PVCP.
SA - 1	N 1,186,818.83	E 1,407,649.90	INSTALL NEW 5' DIA. MANHOLE. CONNECT TO EXIST. CHAMBER A-1 WITH NEW 24" SDR-35 PVCP.
SA - 2	N 1,186,885.63	E 1,407,653.96	INSTALL NEW 6' DIA. MANHOLE WITH CAST-IN-PLACE BASE. CONNECT TO SA-1 WITH NEW 24" SDR-35 PVCP.
SA - 3	N 1,187,284.64	E 1,407,523.21	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO SA-2 WITH NEW 24" SDR-35 PVCP.
SA - 4	N 1,187,643.84	E 1,407,705.11	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO SA-3 WITH NEW 24" SDR-35 PVCP.
SA - 5	N 1,188,019.94	E 1,407,895.56	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO SA-4 WITH NEW 24" SDR-35 PVCP.
SA - 6	N 1,188,151.70	E 1,408,048.05	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO SA-5 WITH NEW 24" SDR-35 PVCP.
SA - 7	N 1,188,079.07	E 1,408,191.64	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO SA-6 WITH NEW 24" SDR-35 PVCP.
SA - 8	N 1,188,044.95	E 1,408,203.20	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO SA-7 WITH NEW 24" SDR-35 PVCP.
SA - 9	N 1,188,019.73	E 1,408,254.25	INSTALL NEW 5' DIA. MANHOLE. CONNECT TO SA-8 WITH NEW 24" SDR-35 PVCP AND CONNECT TO EXISTING 21" PIPE.
SA - 10	N 1,187,872.62	E 1,408,185.14	AFTER NEW MAINLINE SEWER IS TESTED AND ACCEPTED (SA-9 TO CHAMBER A-1), TRANSFER FLOW TO NEW SEWER. INSTALL NEW 4' DIA. MANHOLE. CONNECT TO SA-9 WITH NEW 12" SDR-35 PVCP AND CONNECT TO EXISTING 6" LATERAL.
SA - 11	N 1,187,806.73	E 1,408,154.18	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO SA-10 WITH NEW 12" SDR-35 PVCP AND CONNECT TO EXISTING 8" PIPE.
SA - 12	N 1,187,664.20	E 1,408,164.32	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO EXISTING 8" PIPE.
SA - 13	N 1,187,530.24	E 1,408,180.50	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO SA-12 WITH NEW 8" SDR-35 PVCP.
SA - 14	N 1,187,295.95	E 1,408,018.54	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO SA-13 WITH NEW 8" SDR-35 PVCP.
SA - 15	N 1,188,184.00	E 1,408,060.87	INSTALL NEW 4' DIA. MANHOLE. CONNECT TO SA-6 WITH NEW 8" SDR-35 PVCP AND CONNECT TO EXISTING 8" PIPE.

DRAINAGE STRUCTURE TABLE

STRUCTURE NUMBER	LOCATION		T.G. ELEVATION	INVERT	DESCRIPTION
CB 1	A 2+00.2	-21.0	250.62	247.12	INSTALL NEW TYPE 'B' C.B. CONNECT TO EXIST. 58" x 92" ELLIPTICAL RCCP SEWER WITH 8" SDR-21 PVCP. ITEMS C604.076508, C603.992108, S604.31
CB 2	R 25+13.41	20.0	255.95	252.45	INSTALL NEW TYPE 'B' C.B. CONNECT TO NEW 18" PVC SEWER WITH 8" SDR-21 PVCP AND WYE FITTING. ITEMS C603.992108, S604.31
CB 3	R 26+25.28	20.0	259.40	255.90	INSTALL NEW TYPE 'B' C.B. CONNECT TO NEW 21" PVC SEWER WITH 8" SDR-21 PVCP AND WYE FITTING.. ITEMS C603.992108, S604.31
CB 4	R 27+23.94	20.0	261.82	258.32	INSTALL NEW TYPE 'B' C.B. CONNECT TO NEW 21" PVC SEWER WITH 8" SDR-21 PVCP AND WYE FITTING.. ITEMS C603.992108, S604.31
CB 5	R 28+22.67	12.0	262.32	258.82	INSTALL NEW TYPE 'B' C.B. CONNECT TO NEW 21" PVC SEWER WITH 8" SDR-21 PVCP AND WYE FITTING.. ITEMS C603.992108, S604.31
CB 6	R 30+21.16	20.0	263.13	259.63	INSTALL NEW TYPE 'B' C.B. CONNECT TO NEW 18" PVC SEWER WITH 8" SDR-21 PVCP AND WYE FITTING.. ITEMS C603.992108, S604.31
CB 7	R 30+76.82	20.0	263.41	259.91	INSTALL NEW TYPE 'B' C.B. CONNECT TO NEW 18" PVC SEWER WITH 8" SDR-21 PVCP AND WYE FITTING.. ITEMS C603.992108, S604.31
CB 8	R 31+56.82	20.0	263.81	260.31	INSTALL NEW TYPE 'B' C.B. CONNECT TO NEW 18" PVC SEWER WITH 8" SDR-21 PVCP AND WYE FITTING.. ITEMS C603.992108, S604.31
CB 9	P 11+19.72	20.0	274.40	270.90	NO WORK
CB 10	P 12+00.60	-20.0	268.80	265.30	ADJUST FRAME AND GRATE TO PROPOSED GRADE. ITEM S604.50
CB 11	P 12+14.7	20.0	267.53	264.03	INSTALL NEW TYPE 'B' C.B. CONNECT TO EXIST. 12" PVCP SEWER WITH 8" SDR-21 PVCP. ITEMS C604.076508, C603.992108, S604.31
CB 12	P 12+45.31	-12.0	265.69	262.19	INSTALL NEW TYPE 'B' C.B. CONNECT TO EXIST. 12" PVCP SEWER WITH 8" SDR-21 PVCP. ITEMS C604.076508, C603.992108, S604.31
CB 13	R 33+80.85	12.0	264.28	260.78	INSTALL NEW TYPE 'B' C.B. CONNECT TO NEW 15" PVC SEWER WITH 8" SDR-21 PVCP AND WYE FITTING. ITEMS C603.992108, S604.31
CB 14	R 34+96.85	12.0	261.59	258.09	INSTALL NEW TYPE 'B' C.B. CONNECT TO NEW 15" PVC SEWER WITH 8" SDR-21 PVCP AND WYE FITTING. ITEMS C603.992108, S604.31
CB 15	R 35+96.85	12.0	258.97	255.47	INSTALL NEW TYPE 'B' C.B. CONNECT TO NEW 15" PVC SEWER WITH 8" SDR-21 PVCP AND WYE FITTING. ITEMS C603.992108, S604.31
CB 16	R 36+96.84	12.0	256.36	252.86	INSTALL NEW TYPE 'B' C.B. CONNECT TO NEW 15" PVC SEWER WITH 8" SDR-21 PVCP AND WYE FITTING. ITEMS C603.992108, S604.31
CB 17	R 37+84.81	12.0	254.06	250.56	INSTALL NEW TYPE 'B' C.B. CONNECT TO NEW 15" PVC SEWER WITH 8" SDR-21 PVCP AND WYE FITTING. ITEMS C603.992108, S604.31
CB 18	R 38+92.89	12.0	251.92	248.42	INSTALL NEW TYPE 'B' C.B. CONNECT TO NEW 24" PVC SEWER WITH 8" SDR-21 PVCP AND WYE FITTING. ITEMS C603.992108, S604.31
CB 19	R 38+95.34	-12.0	251.92	248.42	INSTALL NEW TYPE 'B' C.B. CONNECT TO NEW 24" PVC SEWER WITH 8" SDR-21 PVCP AND WYE FITTING. ITEMS C603.992108, S604.31
CB 20	C 5+32.00	20.0	253.00	249.50	INSTALL NEW TYPE 'B' C.B. CONNECT TO EXIST. 24" PVCP SEWER WITH 8" SDR-21 PVCP. ITEMS C604.076508, C603.992108, S604.31
CB 21	C 5+58.11	-12.0	252.97	249.47	INSTALL NEW TYPE 'B' C.B. CONNECT TO EXIST. 30" STEEL SEWER WITH 8" SDR-21 PVCP. ITEMS C604.076508, C603.992108, S604.31
CB 22	D 2+93.84	-17.0	252.41	248.91	INSTALL NEW TYPE 'C' C.B. CONNECT TO MANHOLE ST-9 WITH 8" SDR-21 PVCP. ITEMS C603.992108, S604.31
CB 23	D 1+41.65	-39.5	252.13	248.63	INSTALL NEW TYPE 'C' C.B. CONNECT TO NEW 12" PVCP SEWER WITH 8" SDR-21 PVCP. ITEMS C603.992108, S604.31

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PROJECT/CLIENT

PORT OF ROCHESTER MARINA DEVELOPMENT PROJECT
ROCHESTER, NY

City of Rochester

NO.	DATE	REVISION
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DRAWING TITLE

CONSTRUCTION TABLES

DATE:	JULY 22, 2013
SCALE:	NONE
DESIGNED BY:	CAE
DRAWN BY:	CON
REVIEWED BY:	CAE
PROJECT NUMBER:	210660

DRAWING NUMBER

C8.02

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WATER MAIN VALVE TABLE

ITEM NO.	
S902.0303	SALVAGE EXISTING 3" WATER VALVE
S902.0308	SALVAGE EXISTING 8" WATER VALVE
S903.0108	8" RESILIENT SEAT GATE VALVE WITH VALVE BOX - VERTICAL TYPE
S903.0104	4" RESILIENT SEAT GATE VALVE WITH VALVE BOX - VERTICAL TYPE
S904.0308	8" x 8" TAPPING SLEEVE AND VALVE WITH VALVE BOX
S203.02	UNCLASSIFIED EXCAVATION
S909.06	REMOVE EXISTING WATR VALVE BOX (INCLUDING EXCAVATION, BACKFILL AND SURFACE RESTORATION)

ID	STATION	OFFSET (FT)	SIDE	S 902.0303	S 902.0308	S 903.0108	S 903.0104	S 904.0308	S 203.02	S 909.06	REMARKS
WV-1	3W 10+01.32	0.0	-					X			NEW 8" x 8" TS&V WITH VALVE BOX
WV-2	A 2+12.22	7.7	L			X					NEW 8" GATE VALVE WITH VALVE BOX
WV-2.5	3W 11+74.34	0.0	-				X				NEW 4" GATE VALVE WITH VALVE BOX
WV-3	R 24+59.13	15.5	R			X					NEW 8" GATE VALVE WITH VALVE BOX
WV-4	R 29+46.60	14.6	L			X					NEW 8" GATE VALVE WITH VALVE BOX
WV-5	R 33+19.48	8.0	L			X					NEW 8" GATE VALVE WITH VALVE BOX
WV-6	R 33+49.05	10.2	L			X					NEW 8" GATE VALVE WITH VALVE BOX
WV-7	R 34+00	8.0	L			X					NEW 8" GATE VALVE WITH VALVE BOX
WV-8	R 37+17.92	8.0	L			X					NEW 8" GATE VALVE WITH VALVE BOX
WV-9	1W 15+18.21	0.0	-					X			NEW 8" x 8" TS&V WITH VALVE BOX
WV-E1	4+27.63	2.6	L							X	ABANDON VALVE, REMOVE EXISTING WATER VALVE BOX
WV-E2	4+59.12	6.1	L							X	ABANDON VALVE, REMOVE EXISTING WATER VALVE BOX
WV-E3	R 37+11.38	73.9	R		X				X		SALVAGE WATER VALVE, DEMO VALVE BOX
WV-E4	R 37+15.31	76.6	R		X				X		SALVAGE WATER VALVE, DEMO VALVE BOX
WV-E5	R 37+60.25	73.5	R		X				X		SALVAGE WATER VALVE, DEMO VALVE BOX
WV-E6	2S 12+31.33	27.6	L	X					X		SALVAGE WATER VALVE, DEMO VALVE BOX
WV-E7	2S 12+11.90	21.3	L	X					X		SALVAGE WATER VALVE, DEMO VALVE BOX
WV-S1	D 1+31.61	15.2	L			X					NEW 8" GATE VALVE WITH VALVE BOX
WV-S2	1W 14+89.59	0.0	-			X					NEW 8" GATE VALVE WITH VALVE BOX
WV-S3	1W 14+63.60	0.0	-			X					NEW 8" GATE VALVE WITH VALVE BOX
WV-S4	2W 11+42	0.0	-				X				NEW 4" GATE VALVE WITH VALVE BOX
WV-S5	2W 11+00	2.2	R				X				NEW 4" GATE VALVE WITH VALVE BOX
WV-S6	2W 10+39.70	0.0	-				X				NEW 4" GATE VALVE WITH VALVE BOX
WV-S7	2S 12+10.38	7.5	L				X				NEW 4" GATE VALVE WITH VALVE BOX

HYDRANT DISPOSITION TABLE

ITEM NO.	DESCRIPTION
S 901.080206	6" POLYVINYL CHLORIDE PIPE FOR HYDRANT BRANCH
S 901.130206	6" MOLECULARLY ORIENTED POLYVINYL CHLORIDE PIPE FOR HYDRANT BRANCH
S 902.0306	SALVAGE EXISTING 6" WATER VALVE
S 903.0106	6" RESILIENT SEAT GATE VALVE WITH VALVE BOX - VERTICAL TYPE
S 904.0806	8" x 6" TAPPING SLEEVE AND VALVE WITH VALVE BOX
S 917.01	NEW HYDRANT
S 917.05	REMOVE EXISTING HYDRANT

ID	STATION	OFFSET (FT)	SIDE	S 901.080206 (LF)	S 901.130206 (LF)	S 902.0306 (EA)	S 903.0106 (EA)	S 904.0806 (EA)	S 917.01 (EA)	S 917.05 (EA)	REMARKS
HD-1	A 1+89.35	19.0	L		X		X		X		INSTALL 6" PVCO BRANCH PIPE W/SBR GASKETS, 6" GATE VALVE, AND HYDRANT. RESTRAIN ALL JOINTS
HD-2	R 27+06	24.5	R		X		X		X		INSTALL 6" PVCO BRANCH PIPE W/SBR GASKETS, 6" GATE VALVE, AND HYDRANT. RESTRAIN ALL JOINTS
HD-3	R 29+92.72	16.0	L		X		X		X		INSTALL 6" PVCO BRANCH PIPE W/SBR GASKETS, 6" GATE VALVE, AND HYDRANT. RESTRAIN ALL JOINTS
HD-4	R 32+72.75	16.0	R		X		X		X		INSTALL 6" PVCO BRANCH PIPE W/SBR GASKETS, 6" GATE VALVE, AND HYDRANT. RESTRAIN ALL JOINTS
HD-5	R 35+18.32	16.0	R		X		X		X		INSTALL 6" PVCO BRANCH PIPE W/SBR GASKETS, 6" GATE VALVE, AND HYDRANT. RESTRAIN ALL JOINTS
HD-6	R 37+11.48	34.5	L		X		X		X		INSTALL 6" PVCO BRANCH PIPE W/SBR GASKETS, 6" GATE VALVE, AND HYDRANT. RESTRAIN ALL JOINTS
HD-7	R 37+63.9	16.0	R		X		X		X		INSTALL 6" PVCO BRANCH PIPE W/SBR GASKETS, 6" GATE VALVE, AND HYDRANT. RESTRAIN ALL JOINTS
HD-8	C 2+72.32	24.4	L		X			X	X		INSTALL 6" PVCO BRANCH PIPE W/ SBR GASKETS, TS&V 8" x 6", AND HYDRANT. RESTRAIN ALL JOINTS
HD-9	D 1+31.23	42.0	L	X			X		X		INSTALL 6" PVC BRANCH PIPE W/ NITRILE GASKETS, 6" GATE VALVE, AND HYDRANT. RESTRAIN ALL JOINTS
HD-E1	A 2+03.53	2.4	L							X	REMOVE HYDRANT AND BRANCH VALVE BOX, ABANDON BRANCH AND GATE VALVE IN PLACE
HD-E2	R 34+10.56	67.3	R			X				X	REMOVE HYDRANT AND BRANCH VALVE BOX, SALVAGE WATER VALVE
HD-E3	R 36+80	66.8	R			X				X	REMOVE HYDRANT AND BRANCH VALVE BOX, SALVAGE WATER VALVE
HD-E4	R 39+69.78	11.0	L							X	REMOVE HYDRANT AND BRANCH VALVE BOX, ABANDON BRANCH AND GATE VALVE IN PLACE
HD-E5	D 1+46.91	90.5	L			X				X	REMOVE HYDRANT AND BRANCH VALVE BOX, SALVAGE WATER VALVE
HD-E6	2S 12+42.71	27.6	L			X				X	REMOVE HYDRANT AND BRANCH VALVE BOX, SALVAGE WATER VALVE

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PROJECT/CLIENT

PORT OF ROCHESTER MARINA DEVELOPMENT PROJECT
ROCHESTER, NY

City of Rochester

NO.	DATE	REVISION
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ISSUED FOR
BID

DRAWING TITLE
CONSTRUCTION TABLES

DATE:	JULY 22, 2013
SCALE:	NONE
DESIGNED BY:	MHB
DRAWN BY:	MHB
REVIEWED BY:	JWM
PROJECT NUMBER:	210660

DRAWING NUMBER
C8.03

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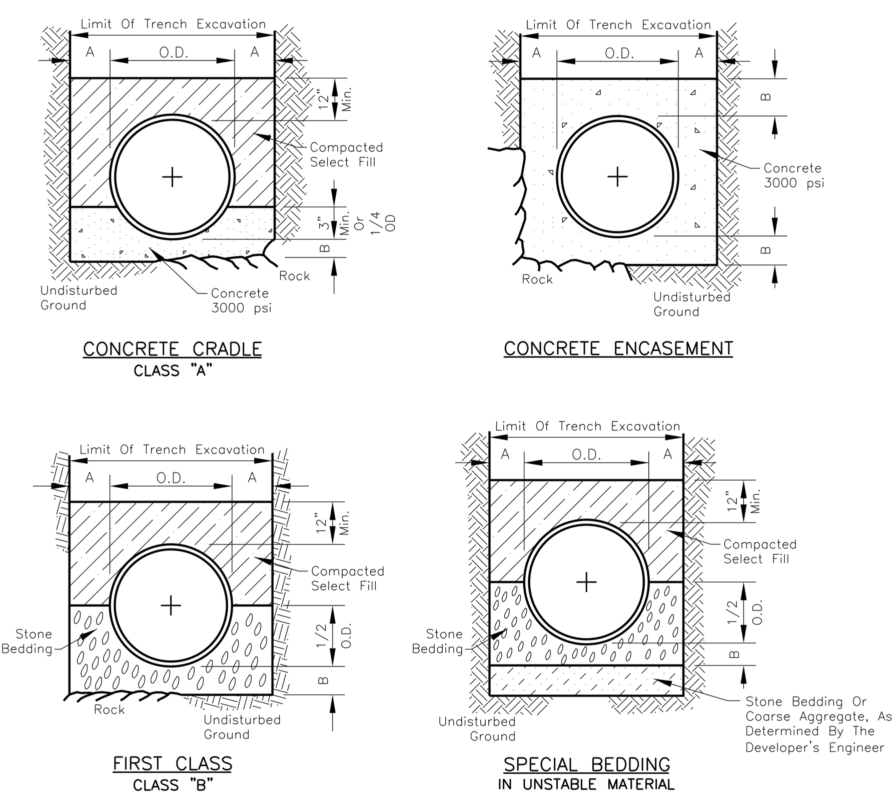


PIPE DIA.	DIM. A	DIM. B
UP TO 18"	1.0'	6"
21" TO 36"	1.5'	9"
OVER 36"	1.5'	12"

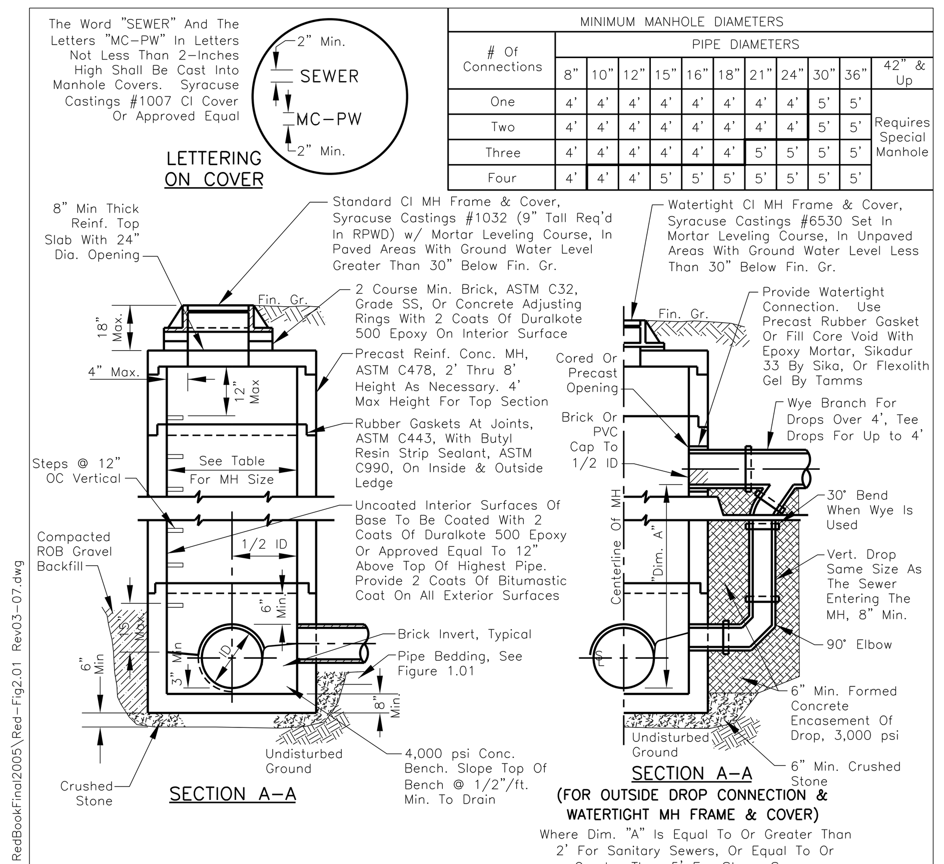
NOTES:

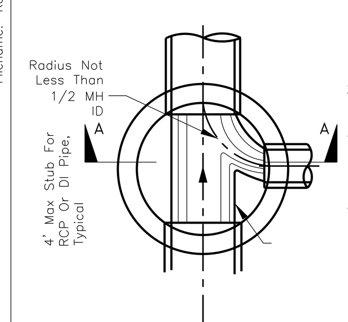
1. Trench backfill shall be as required by the highway owner.
2. Select fill shall be sand, gravel, and similar material which shall be free from clay, loam, organic material, debris, frozen material and shall contain only small amounts of stone, pebbles, or lumps over one inch in greatest dimension, but none over two inches in greatest dimension.
3. Stone bedding shall mean approved imported aggregate meeting the requirements of the New York State Department of Transportation, Standard Specification, "Crushed Stone", primary size 1 or a mixture of primary size 1 and 2, washed.
4. Coarse aggregate shall mean approved imported aggregate meeting the requirements of the New York State Department of Transportation, Standard Specification, "Crushed Stone", primary size 3 or a mixture of primary size 3 and 4.
5. This Figure 1.01 applies to Pure Waters sanitary, storm, and combined mainline sewers and lateral pipe installations, as well as forcemains.

Final 02-15-2005

MONROE COUNTY PURE WATERS

Feb 2005	BEDDING DETAILS	FIGURE 1.01





NOTES:

1. The crown of the influent sewer(s) should be at the same level or above the crown of the outlet sewer.
2. Concrete for structure shall have a minimum 28 day compressive strength of 4,000 psi.
3. Pipe connection to manhole shall be precast opening with flexible boot connector, PSX by Press-Seal Gasket Corp. or approved equal, or field cored opening. Cored openings in manhole riser sections shall be not less than 6-inches from a riser joint.
4. All riser joints shall be rubber ring gaskets conforming to ASTM C443, with butyl resin strip sealant on the inside and outside ledge of joints.

Riser sections & top slabs shall conform with ASTM C478, with HS-20 loading design.

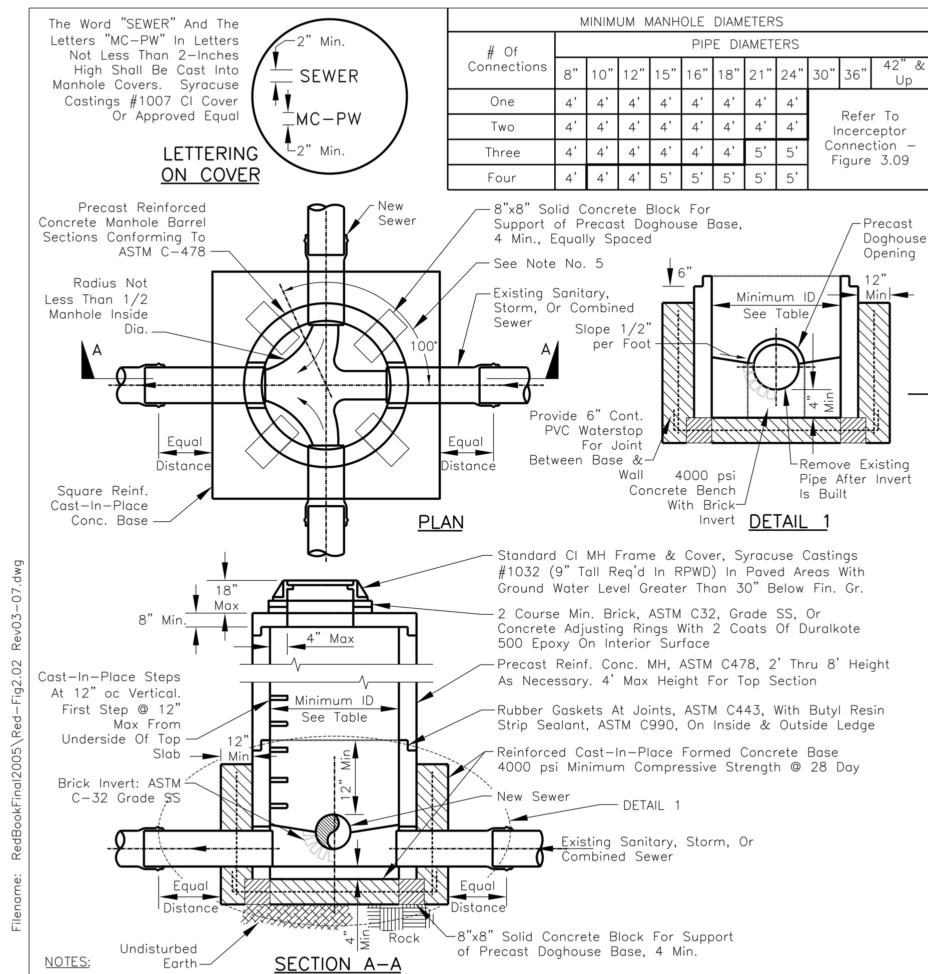
Inverts shall be constructed with brick, ASTM C32, grade SS, soldier course laid in the direction of flow.

This Figure 2.01 applies to Pure Waters sanitary, storm, and combined sewers.

Draft 03-07-2007

MONROE COUNTY PURE WATERS

MARCH 2007	MANHOLE DETAILS WITH PRECAST REINFORCED CONCRETE BASE	FIGURE 2.01



NOTES:

1. Build new manhole equal distance between existing joints on existing Pure Waters sanitary, storm, or combined sewer.
2. Thoroughly clean existing pipe and coat with epoxy bonding agent prior to pouring concrete base.

Provide precast doghouse manhole base as formwork for cast-in-place concrete base. Support precast base with concrete block to prevent base from resting on pipe. Fill void around pipe with concrete.

Reinforcing for cast-in-place concrete shall be determined by design calculations. Use No. 4 bars @ 12" oc each way minimum.

5. Stub at manhole shall not exceed 100 degrees alignment entering against existing sewer main flow.
6. Provide 2 coats of Duralkote 500 epoxy or approved equal for Interior coating of manhole to 12" above crown of highest pipe. Provide 2 coats of bitumastic coat on all exterior surfaces.

Drop manhole shall conform to standard Pure Waters details, refer to Figure 2.01.

Inverts shall be constructed with brick, ASTM C32, grade SS.

Close-circuit televise existing sewer before and after construction of new manholes.

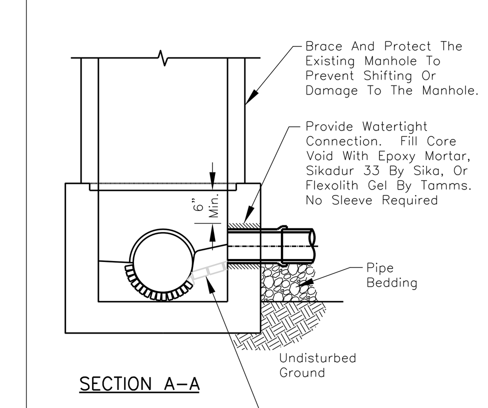
Draft 03-07-2007

MONROE COUNTY PURE WATERS

MARCH 2007	NEW MANHOLE CAST-IN-PLACE BASE OVER EXISTING PURE WATERS DISTRICT SEWER	FIGURE 2.02

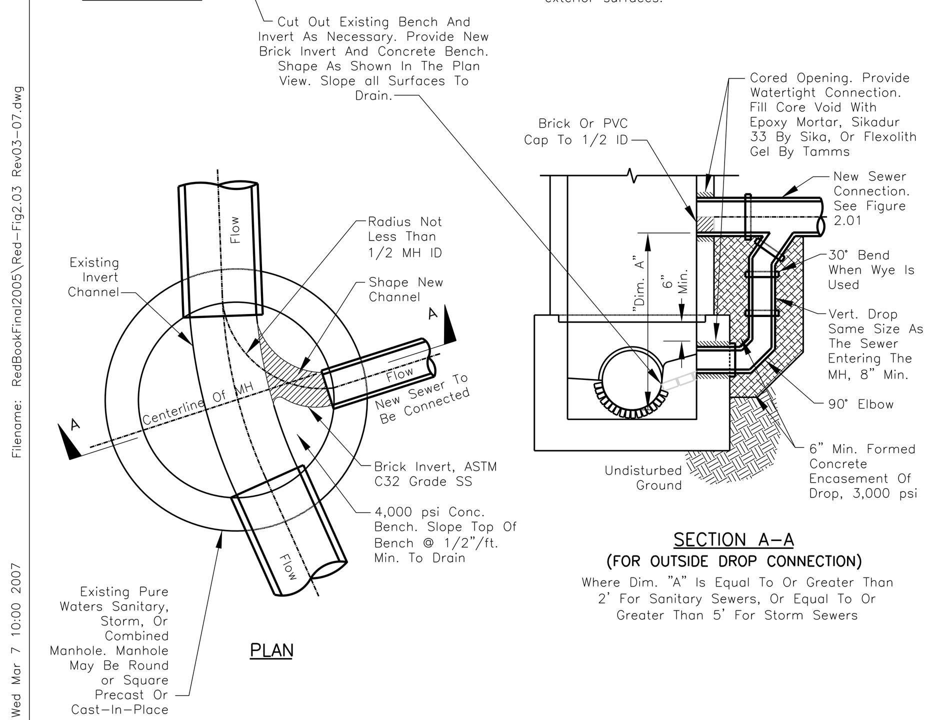
SPECIAL NOTE:

Storm sewers shall not be connected to sanitary sewers, and sanitary sewers shall not be connected to storm sewers.



NOTES:

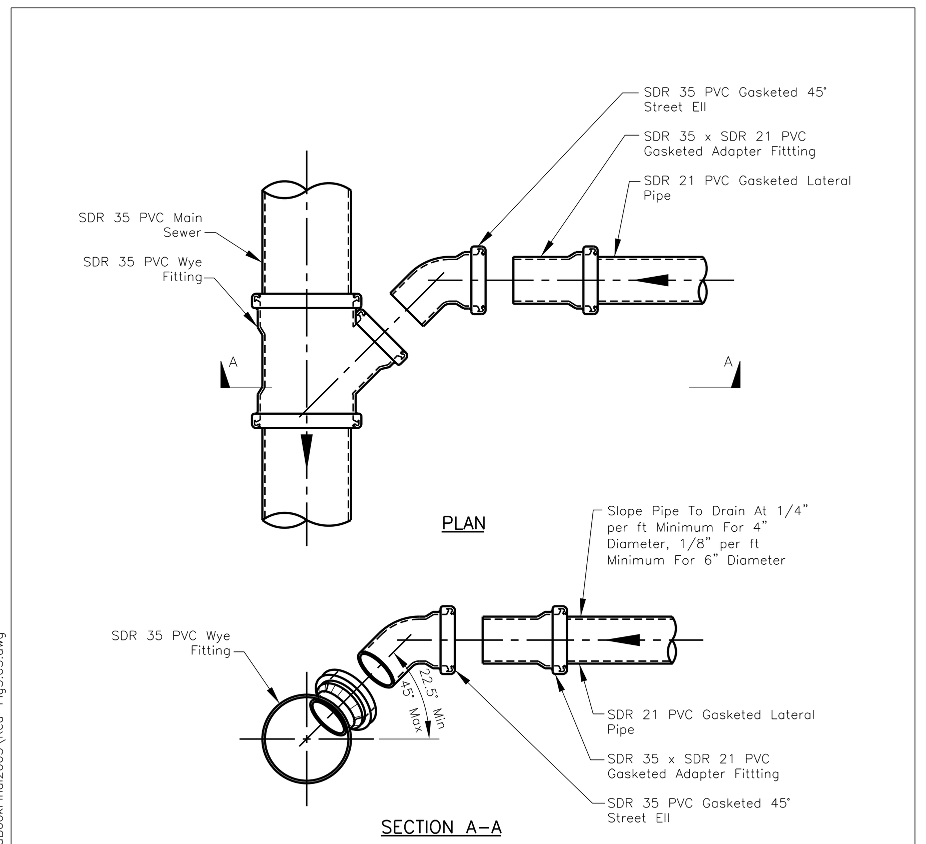
1. Notify Pure Waters a minimum of 48 hours in advance of construction for inspection of connection. Telephone (585) 760-7600, Option 5.
2. New openings for pipe may be cored or drilled. Impact devices are not allowed for creating openings in existing manholes or chambers. Cored openings in manhole riser sections shall be not less than 6-inches from a riser joint.
3. Stub at manhole shall not exceed 100 degrees alignment entering against the existing upstream sewer.
4. Provide a pipe joint within 4-feet maximum of the outside face of manhole for reinforced concrete or ductile iron pipe.
5. Construct the crown of new sewer not lower than the crown of the existing main sewer. Construct the invert of the new sewer 3-inches minimum above the existing main sewer invert.
6. Construct top of new bench to springline of new sewer pipe.
7. Coat all disturbed surfaces of the manhole with 2 coats of Duralkote 500 epoxy or approved equal for interior of base and 2 coats of bitumastic for all exterior surfaces.



Draft 03-07-2007

MONROE COUNTY PURE WATERS

MARCH 2007	SEWER CONNECTIONS TO EXISTING MANHOLE	FIGURE 2.03



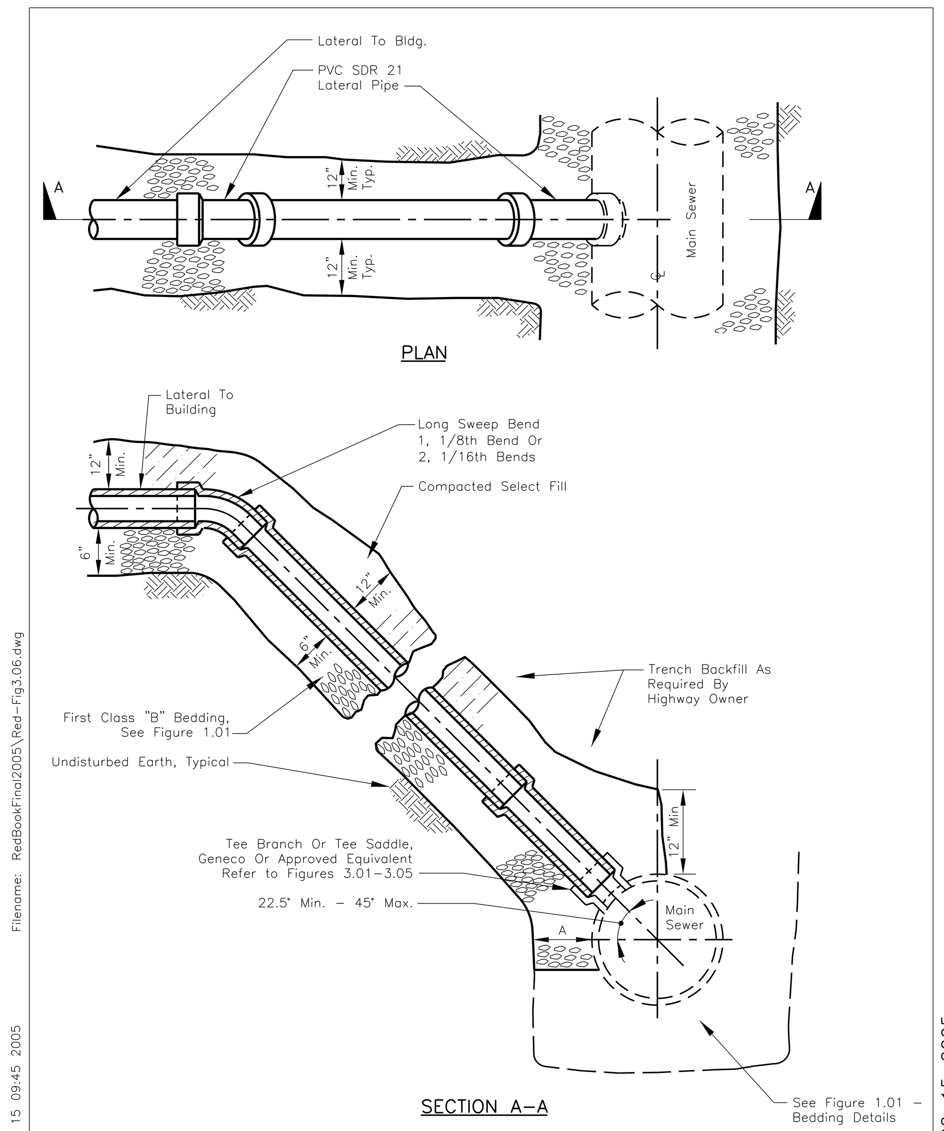
NOTES:

1. Main sewer pipe, lateral pipe, wye and other fittings shall be gasketed type fittings. Solvent weld joints are not allowed, except at cleanouts, see Figures 4.01-4.07.
2. See Figure 1.01 for pipe bedding and backfill.

Final 02-15-2005

MONROE COUNTY PURE WATERS

Feb 2005	NEW LATERAL WYE CONNECTION TO NEW SEWER	FIGURE 3.03



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MONROE COUNTY PURE WATERS

Feb 2005	LATERAL RISER CONNECTION	FIGURE 3.06

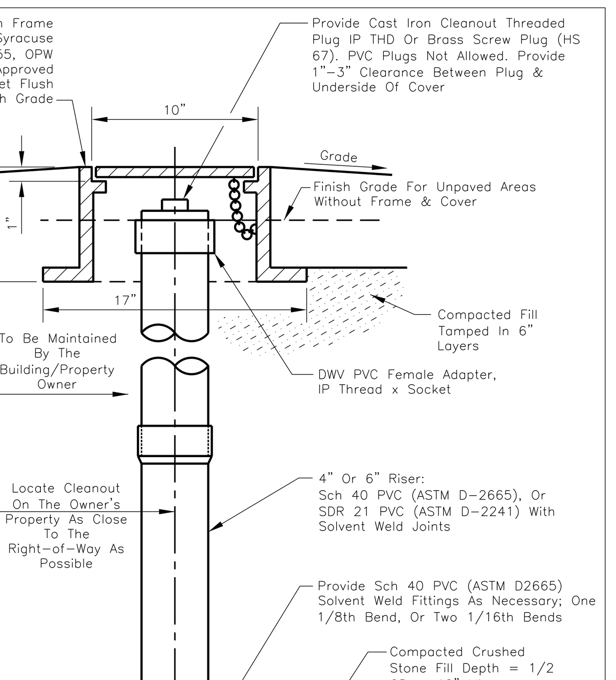
SEWER
C.O.
LETTERING ON COVER

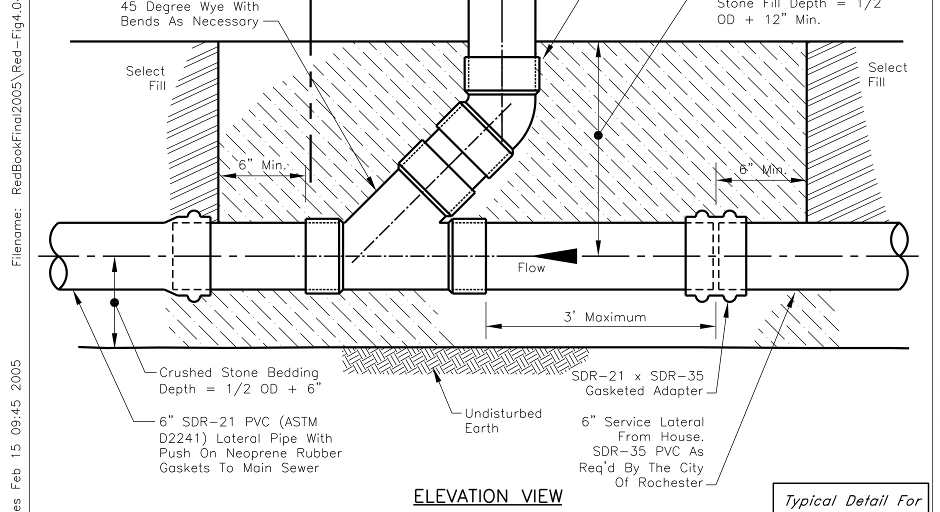
NOTES:

1. Frame and cover to be used only in paved areas.
2. Crushed Stone: No. 1 Washed Stone Or A Mix Of No. 1 and No. 2 Washed Stone.

Recommended Methods for Joining Of Solvent Weld Pipe:
1. Clean dry hubs & spigots
2. Apply primer to parts being connected
3. Apply PVC solvent weld cement directly over primer

** PVC Type I is compatible for solvent welding to SDR-21 or any other PVC Type I pipe made to Steel Pipe outside dimensions





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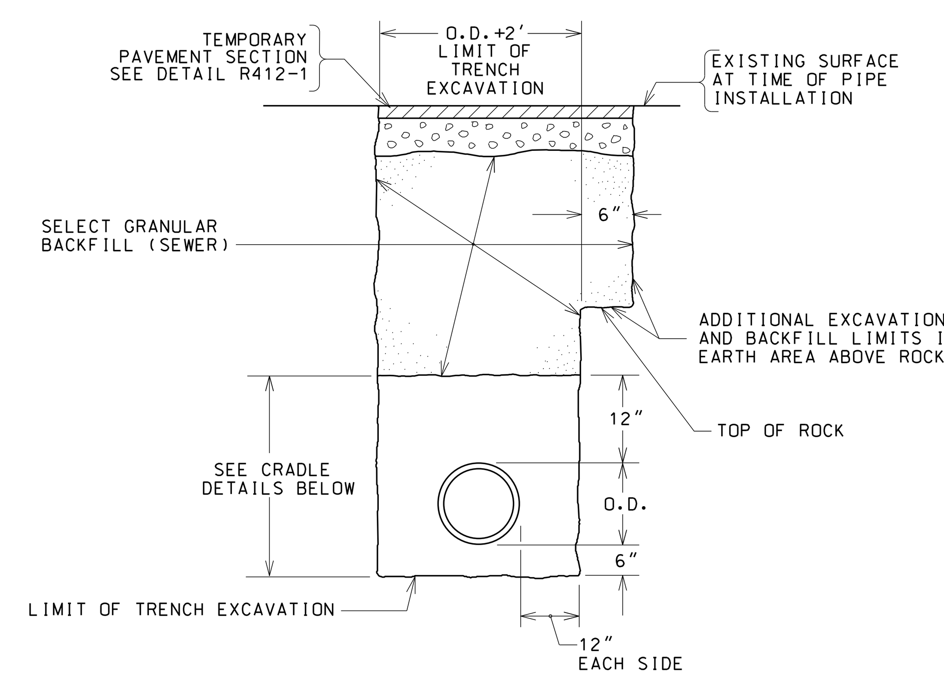
MONROE COUNTY PURE WATERS

Feb 2005	RPWD RECOMMENDED CLEANOUT FOR NEW 6" LATERAL CONNECTION	FIGURE 4.04



NOTES:

1. LIMITS SHOWN ARE MAXIMUM ALLOWED AND MINIMUM REQUIRED FOR EXCAVATION AND BACKFILL.
2. UPPER LIMIT FOR TRENCH EXCAVATION IS TOP OF EXISTING SURFACE. AT TIME OF TRENCH EXCAVATION.
3. TEMPORARY PAVEMENT SHALL BE REQUIRED FOR TRENCHES IN PAVED AREAS OPEN TO TRAFFIC.
4. UPPER LIMIT FOR SELECT GRANULAR BACKFILL (SEWER) IS BOTTOM OF TEMPORARY PAVEMENT (IF USED), OR TOP OF SURFACE - AS NOTED ON THE PLANS.
5. TEMPORARY OR PERMANENT BLOCKS OR ANY OTHER TYPE OF PIPE SUPPORT IS NOT TO BE USED DURING PIPE INSTALLATION.
6. UPPER LIMIT FOR ROCK EXCAVATION IS TOP SURFACE OF ROCK.

SEWER TRENCH DETAIL

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PORT OF ROCHESTER MARINA DEVELOPMENT PROJECT
ROCHESTER, NY

City of Rochester

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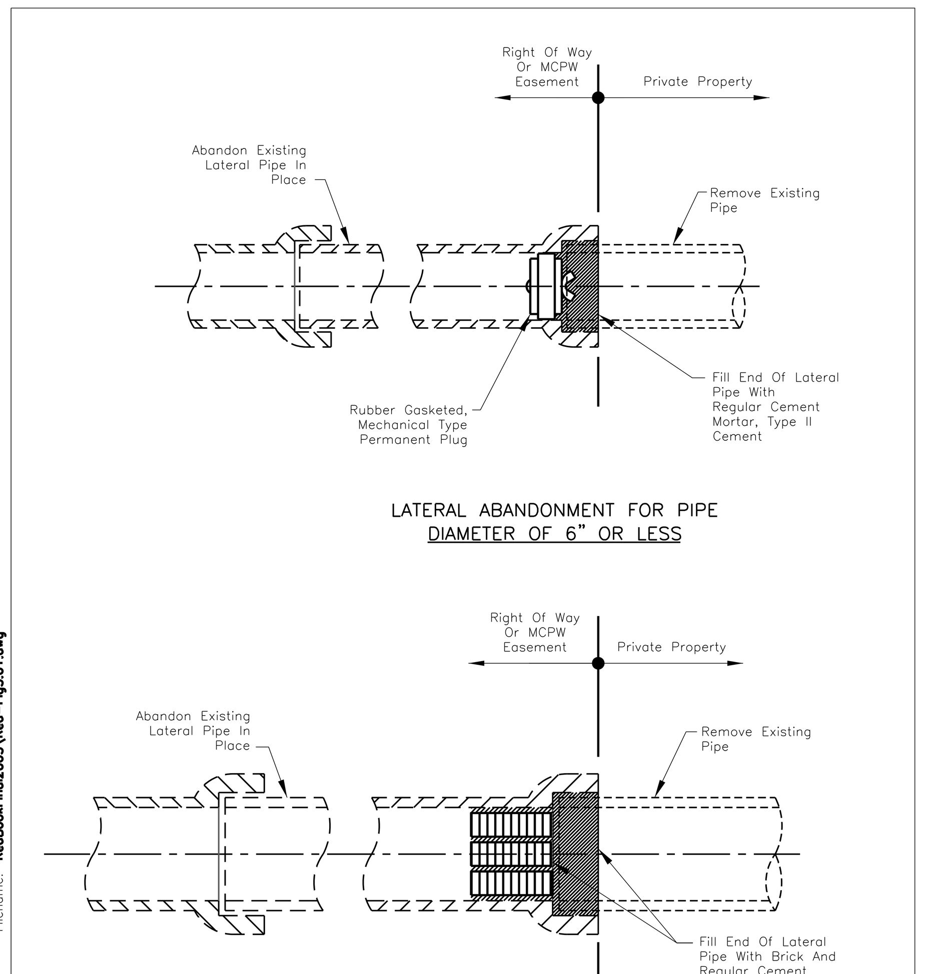
DRAWING TITLE

CONSTRUCTION DETAILS STORM & SANITARY

DATE:	JULY 22, 2013
SCALE:	NTS
DESIGNED BY:	--
DRAWN BY:	MHB / JRE
REVIEWED BY:	JWM
PROJECT NUMBER:	210660

DRAWING NUMBER

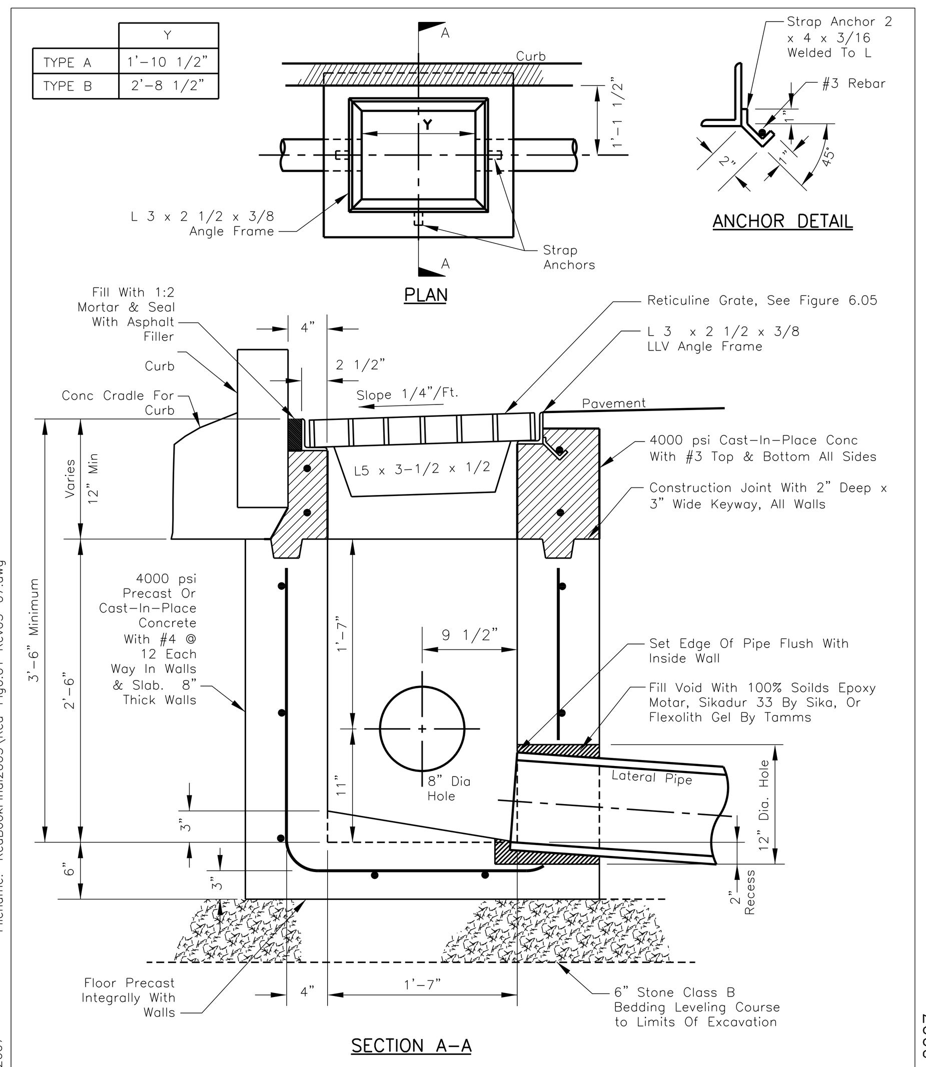
C9.01



NOTES:
1. Lateral Abandonment must be witnessed by a representative of the District. Notify Pure Waters a minimum of 48 hours in advance of construction for inspection of the lateral abandonment. Telephone (585) 760-7600, Option 5.
2. Brick for plug: ASTM C-32, Grade SS.

Final 02-15-2005

MONROE COUNTY PURE WATERS		
Feb 2005	LATERAL ABANDONMENT DETAIL	FIGURE 5.01

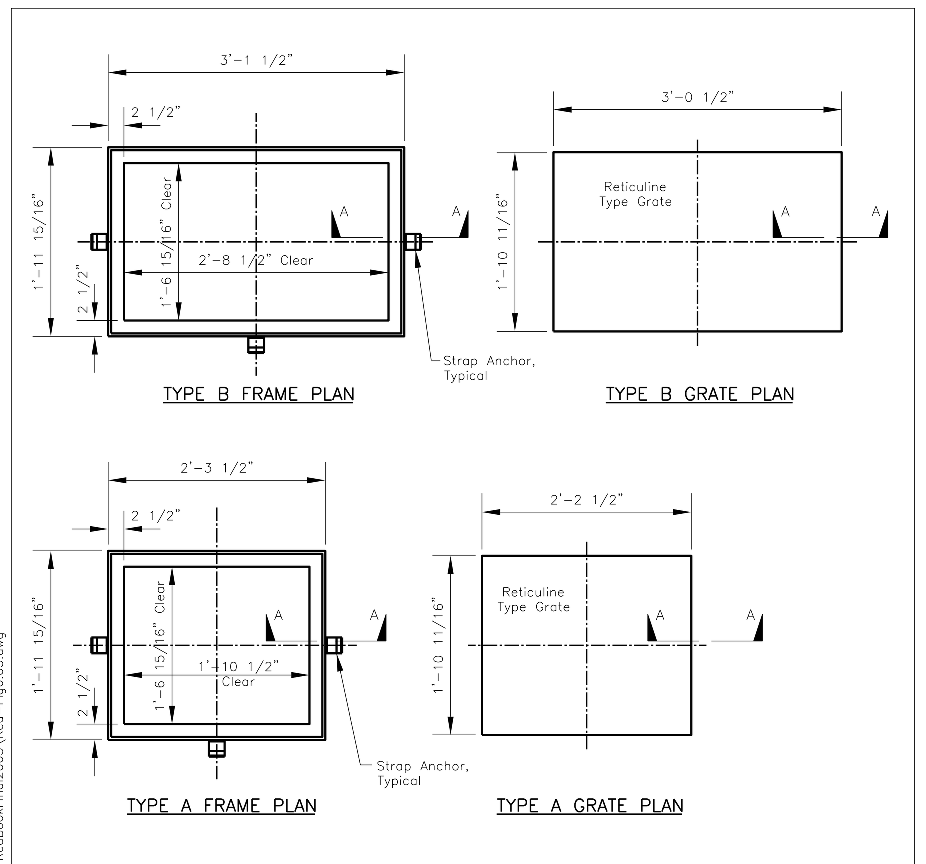


NOTES:
1. Coat interior of catch basin with 2 coats of Duralkote 500 Epoxy or approved equal.
2. Coat exterior of catch basin with 2 coats of bituminous coating.

Typical Detail for City Of Rochester Street Improvement Projects. Other Use Requires RFWD Approval.

Draft 03-07-2007

MONROE COUNTY PURE WATERS		
MARCH 2007	TYPE A & B CATCH BASIN	FIGURE 6.01

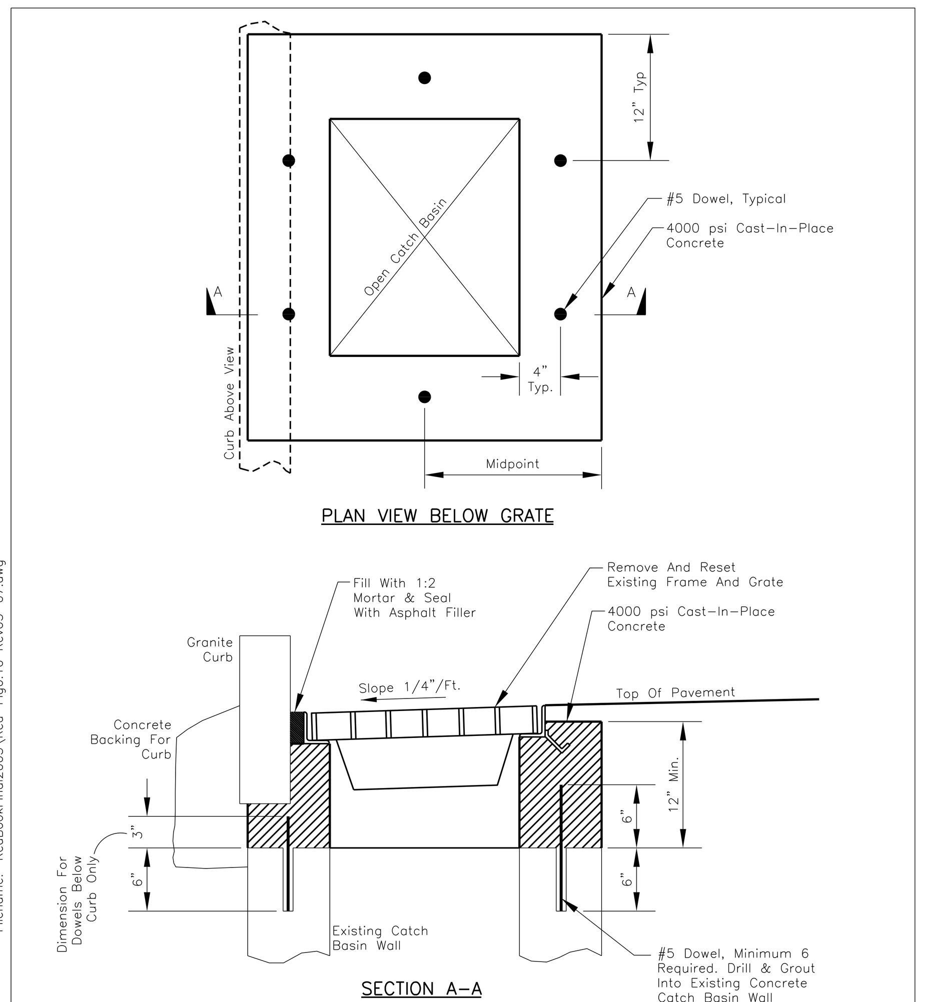


NOTES:
1. Frames and grates shall be galvanized steel reticuline type, Syracuse Castings Model NYSDOT #1 for Type A, and Model NYSDOT #3 for Type B, or approved equal. Units shall be designed for H-20 loading. Complete unit shall be hot dip galvanized after fabrication, ASTM A123.

Typical Detail for City Of Rochester Street Improvement Projects. Other Use Requires RFWD Approval.

Final 02-15-205

MONROE COUNTY PURE WATERS		
Feb 2005	TYPE A & B CATCH BASIN FRAME AND GRATE	FIGURE 6.05

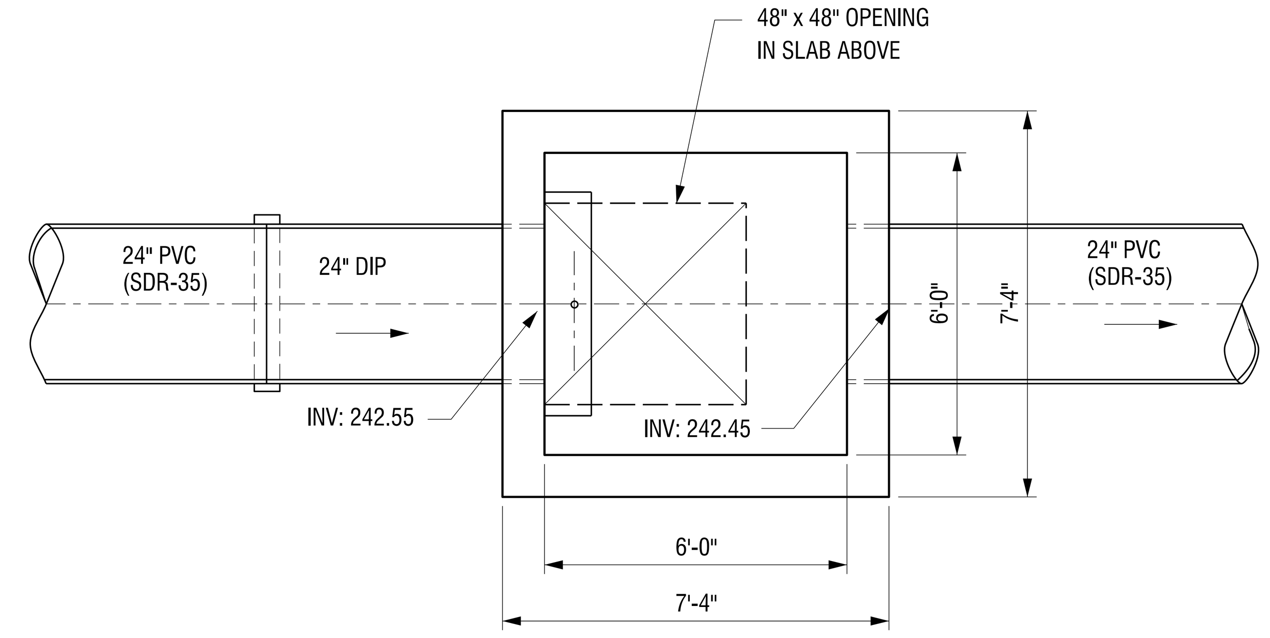


NOTES:
1. Scarify and/or remove top of existing catch basin walls to sufficient depth to accommodate new concrete cap. Coat top surface with epoxy polysulfide grout per NYSDOT Sub-Section 721-03 prior to pouring new cap.
2. Coat interior of new concrete construction with 2 coats of Duralkote 500 Epoxy or approved equal.
3. Coat exposed exterior of new concrete construction with 2 coats of bituminous coating.

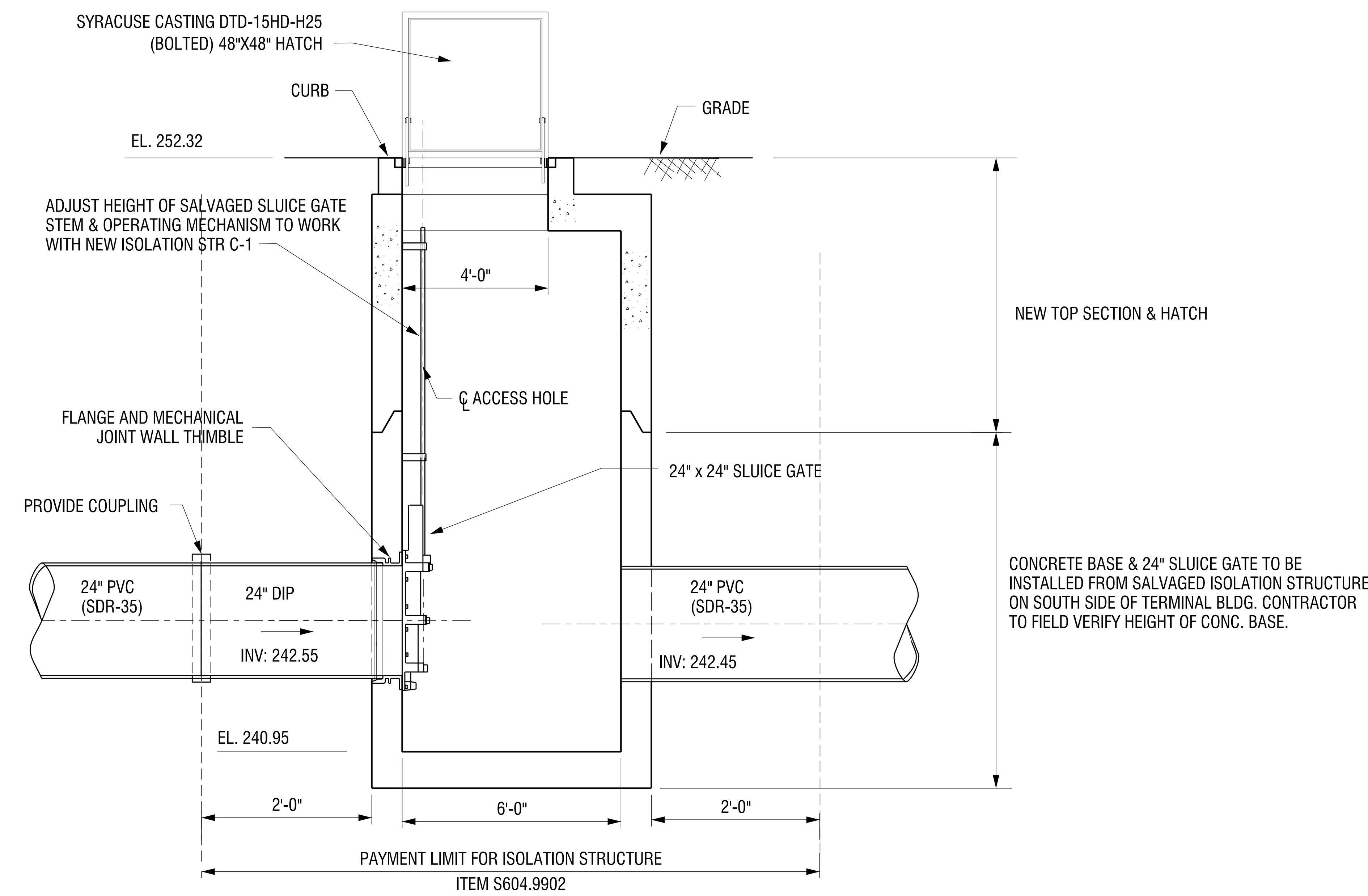
Typical Detail for City Of Rochester Street Improvement Projects. Other Use Requires RFWD Approval.

Draft 03-07-2007

MONROE COUNTY PURE WATERS		
MARCH 2007	CATCH BASIN FRAME AND COVER ADJUSTMENT	FIGURE 6.10

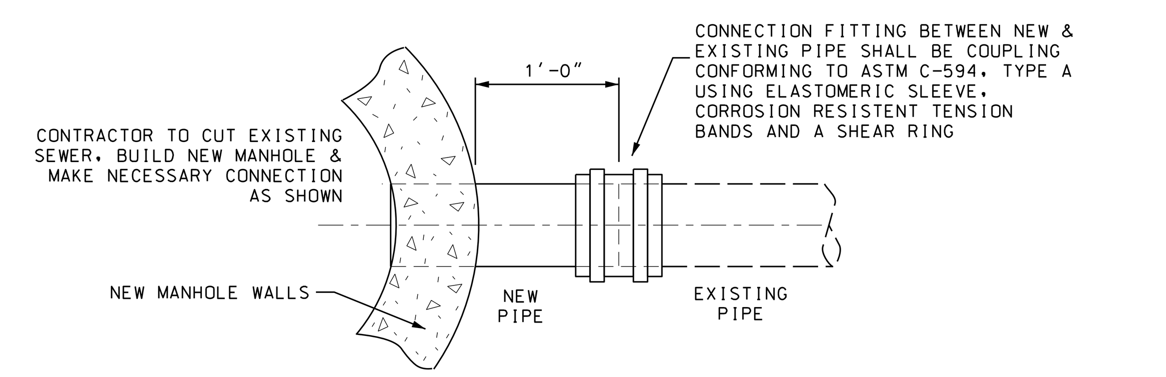


PLAN



SECTION A-A

CIRCULATION PIPE ISOLATION STRUCTURE



CONNECTION OF EXISTING SEWER TO NEW MANHOLE

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DRAWING TITLE
CONSTRUCTION DETAILS STORM & SANITARY

DATE:	JULY 22, 2013
SCALE:	NTS
DESIGNED BY:	--
DRAWN BY:	MHB / JRE
REVIEWED BY:	JWM
PROJECT NUMBER:	210660

DRAWING NUMBER
C9.02

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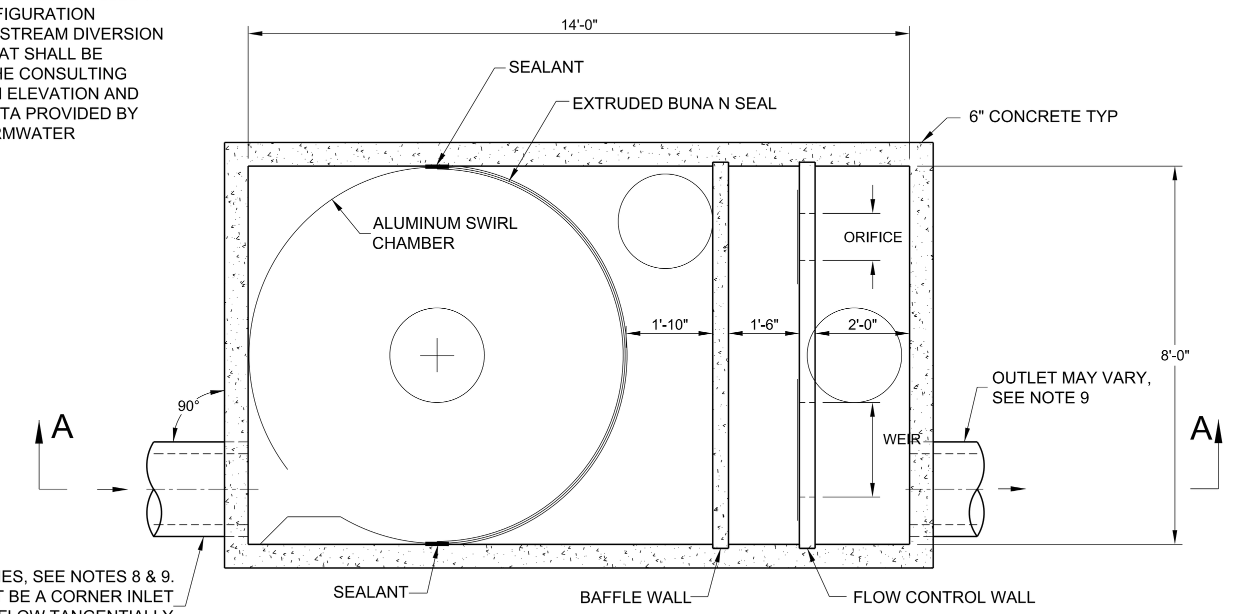
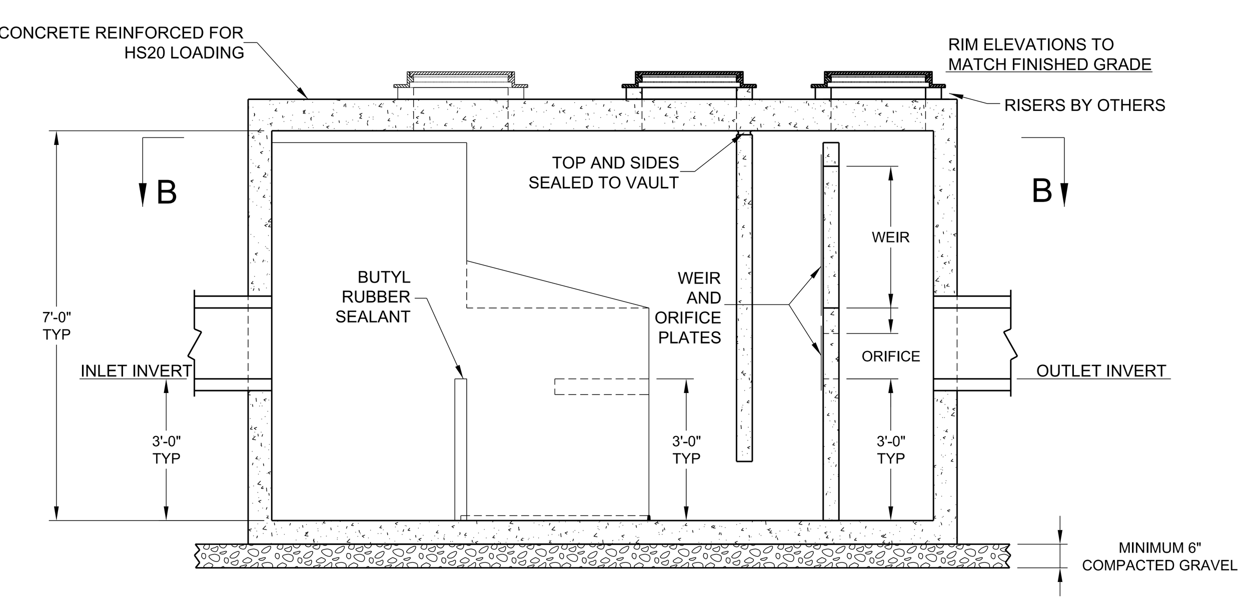
NOTE:
VORTECHS SYSTEMS INSTALLED IN A BYPASS CONFIGURATION REQUIRE AN UPSTREAM DIVERSION STRUCTURE THAT SHALL BE DETAILED BY THE CONSULTING ENGINEER WITH ELEVATION AND WEIR WIDTH DATA PROVIDED BY CONTECH STORMWATER SOLUTIONS.



PLAN VIEW B - B



SECTION A - A

NOTES:
1. STORMWATER TREATMENT SYSTEM (SWTS) SHALL HAVE:
   PEAK TREATMENT CAPACITY: 11 CFS
   SEDIMENT STORAGE: 4 CU YD
   SEDIMENT CHAMBER DIA: 8' MIN
2. SWTS SHALL BE CONTAINED IN ONE RECTANGULAR STRUCTURE
3. SWTS REMOVAL EFFICIENCY SHALL BE DOCUMENTED BASED ON PARTICLE SIZE
4. SWTS SHALL RETAIN FLOATABLES AND TRAPPED SEDIMENT UP TO AND INCLUDING PEAK TREATMENT CAPACITY
5. SWTS INVERTS IN AND OUT ARE TYPICALLY AT THE SAME ELEVATION
6. SWTS SHALL NOT BE COMPROMISED BY EFFECTS OF DOWNSTREAM TAILWATER
7. SWTS SHALL HAVE NO INTERNAL COMPONENTS THAT OBSTRUCT MAINTENANCE ACCESS
8. INLET PIPE MUST BE PERPENDICULAR TO THE STRUCTURE
9. PIPE ORIENTATION MAY VARY; SEE SITE PLAN FOR SIZE AND LOCATION
10. PURCHASER SHALL NOT BE RESPONSIBLE FOR ASSEMBLY OF UNIT
11. MANHOLE FRAMES AND PERFORATED COVERS SUPPLIED WITH SYSTEM, NOT INSTALLED
12. PURCHASER TO PREPARE EXCAVATION AND PROVIDE CRANE FOR OFF-LOADING AND SETTING AT TIME OF DELIVERY
13. VORTECHS SYSTEMS BY CONTECH STORMWATER SOLUTIONS; PORTLAND, OR (800)548-4667; SCARBOROUGH, ME (877) 907-8676; LINTHICUM, MD (866) 740-3318.

PROPRIETARY INFORMATION - NOT TO BE USED FOR CONSTRUCTION PURPOSES

CONTECH® STORMWATER SOLUTIONS INC.
contechstormwater.com

STANDARD DETAIL
STORMWATER TREATMENT SYSTEM
VORTECHS® MODEL 7000

U.S. PATENT No. 5,759,415

DATE: 10/4/06	SCALE: NONE	FILE NAME: STD7k	DRAWN: JBS	CHECKED: NDG

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LICENSED PROFESSIONAL ENGINEER

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ROCHESTER, NY

City of Rochester

NO.	DATE	REVISION
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ISSUED FOR

BID

DRAWING TITLE

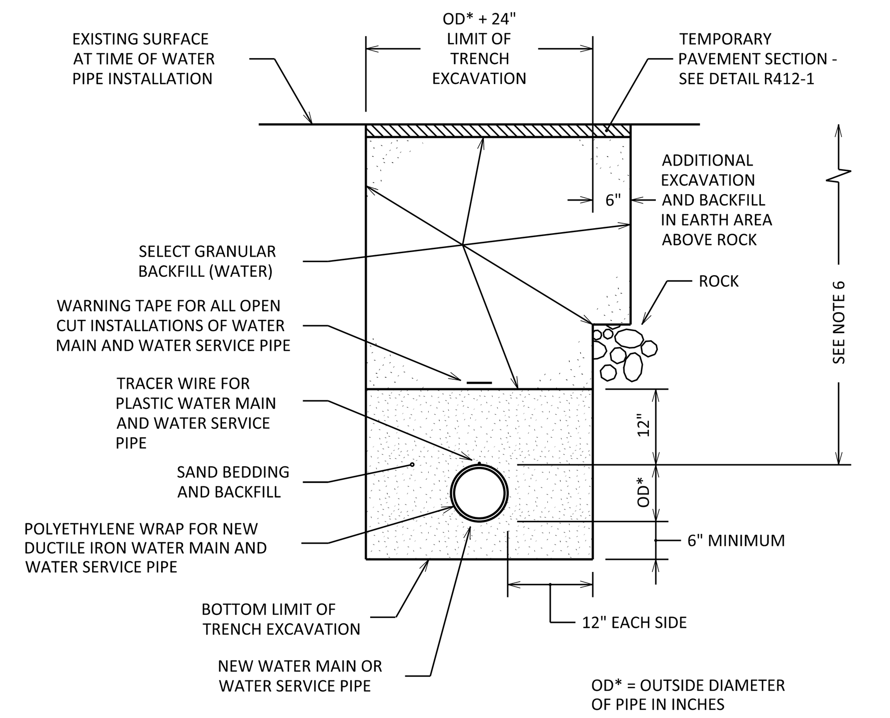
CONSTRUCTION DETAILS STORM & SANITARY

DATE:	JULY 22, 2013
SCALE:	NTS
DESIGNED BY:	--
DRAWN BY:	JRE
REVIEWED BY:	JWM
PROJECT NUMBER:	210660

DRAWING NUMBER

C9.03

PLOTDRVR BW_Full.pltcfg
MODEL C9.03
FILE PATH I:\Edgewater Resources LLP\210660 - Port Marina\Drawings\Civil\Ustation\Contract.dwg\C9.01-9.03 and C10.01-C10.02 Construction Details - 30x42.dgn
DATE TIME 7/11/2013 5:25:28 PM



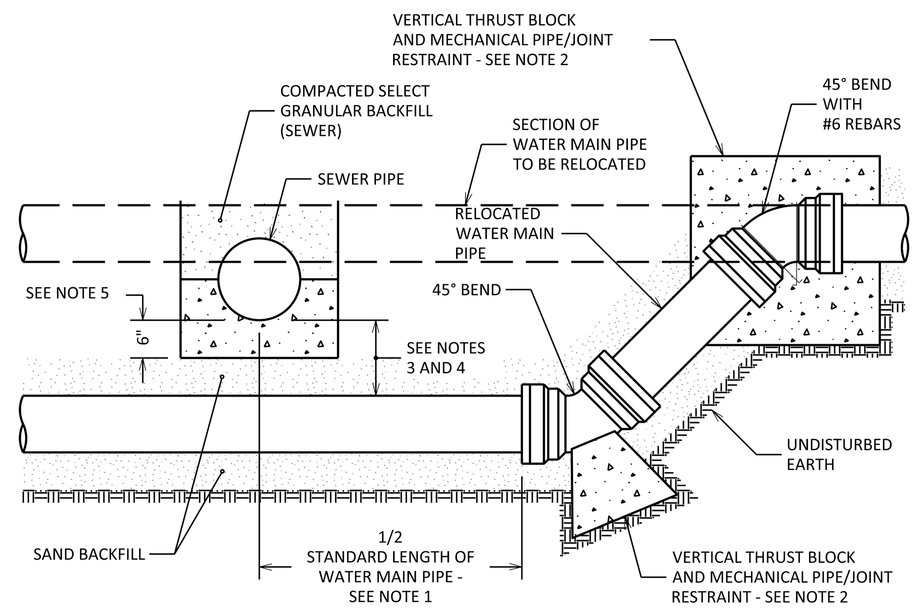
NOTES:

1. LIMITS SHOWN ARE MAXIMUM ALLOWED AND MINIMUM REQUIRED FOR EXCAVATION AND BACKFILL.
2. UPPER LIMIT FOR TRENCH EXCAVATION IS TOP OF EXISTING SURFACE AT TIME OF TRENCH EXCAVATION.
3. UPPER LIMIT FOR ROCK EXCAVATION IS TOP SURFACE OF ROCK.
4. UPPER LIMIT FOR SELECT GRANULAR BACKFILL (WATER) IS BOTTOM OF TEMPORARY PAVEMENT, IF USED, OTHERWISE TOP OF SURFACE.
5. TEMPORARY OR PERMANENT BLOCKS OR ANY OTHER TYPE OF PIPE SUPPORT IS NOT TO BE USED DURING PIPE INSTALLATION.
6. MINIMUM DEPTH OF COVER FOR WATER PIPE FROM TOP OF PROPOSED GRADE IS 4.50 FEET FOR DOMESTIC WATER PIPE, AND 5 FEET FOR HOLLY WATER PIPE, UNLESS OTHERWISE NOTED ON PLANS OR AS DIRECTED BY PROJECT MANAGER.

CITY OF ROCHESTER

WATER TRENCH PAVEMENT RECONSTRUCTION

ISSUED 1-13-06 NON-STANDARD
REVISED 11-22-10 DWG.NO.S900-1



NOTES:

1. ONE STANDARD FULL LENGTH OF WATER MAIN PIPE IS TO BE CENTERED ON SEWER PIPE SO THAT BOTH JOINTS OF WATER MAIN PIPE WILL BE AS FAR FROM SEWER PIPE AS POSSIBLE.
2. THRUST BLOCKS AND PIPE/JOINT RESTRAINTS ARE TO BE PROVIDED AT ALL BENDS, SEE DETAILS S900-5, S900-7, S900-8 AND S900-10.
3. WHERE WATER MAIN PIPE PASSES UNDER SEWER PIPE THERE IS TO BE MINIMUM 18 INCHES OF VERTICAL SEPARATION BETWEEN WATER MAIN PIPE AND SEWER PIPE.
4. WHERE VERTICAL SEPARATION IS LESS THAN 18 INCHES, WATER MAIN PIPE JOINTS LOCATED WITHIN 18 FEET OF BOTH SIDES OF SEWER PIPE MUST BE ENCASED WITHIN CONTROLLED DENSITY FILL MATERIAL, OR SEWER PIPE CONSTRUCTED WITH WATER MAIN STANDARD PIPE AND TESTED TO 150 PSI.
5. WHERE WATER MAIN PIPE PASSES UNDER SEWER PIPE THERE IS TO BE MINIMUM OF 6 INCHES OF CLASS K CONCRETE OR CRUSHED STONE BEDDING MATERIAL FOR SEWER PIPE.

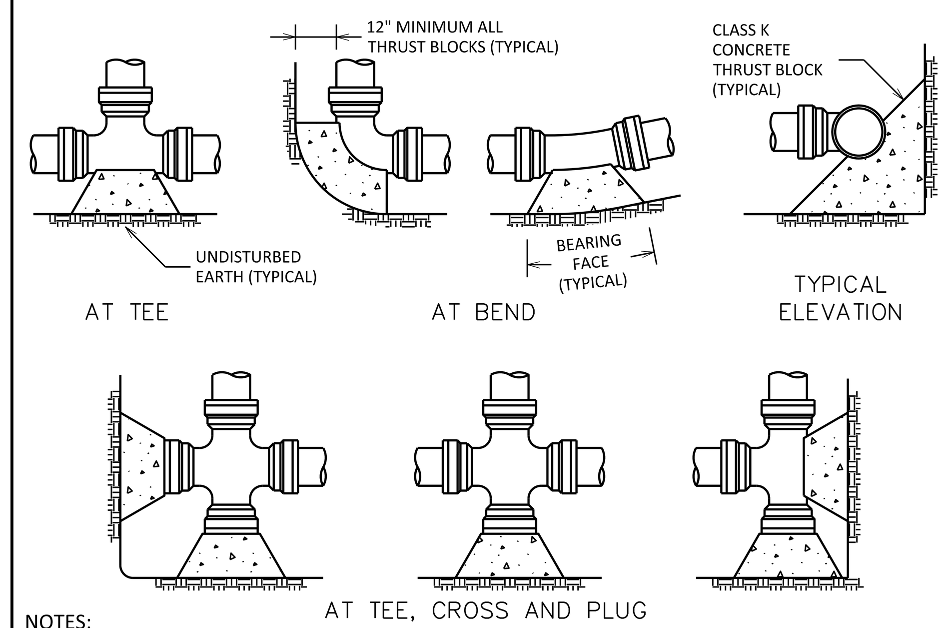
CITY OF ROCHESTER

WATER MAIN CROSSING BELOW SEWER PIPE

ISSUED 1-13-06 NON-STANDARD
REVISED 11-22-10 DWG.NO.S900-3

AREA OF BEARING FACE OF THRUST BLOCK IN SQUARE FEET
(AREA BASED ON INTERNAL PRESSURE OF 150 PSIG
AND SOIL BEARING PRESSURE OF 2000 PSF) (SEE NOTE 1)

PIPE SIZE	BEND 90°	BEND 45°	BEND 22-1/2°	BEND 11-1/4°	TEE PLUG
4" - 6"	4	2.5	1.5	1	3
8"	7	4	2	1	5
12"	14.5	8	4	2	10.5



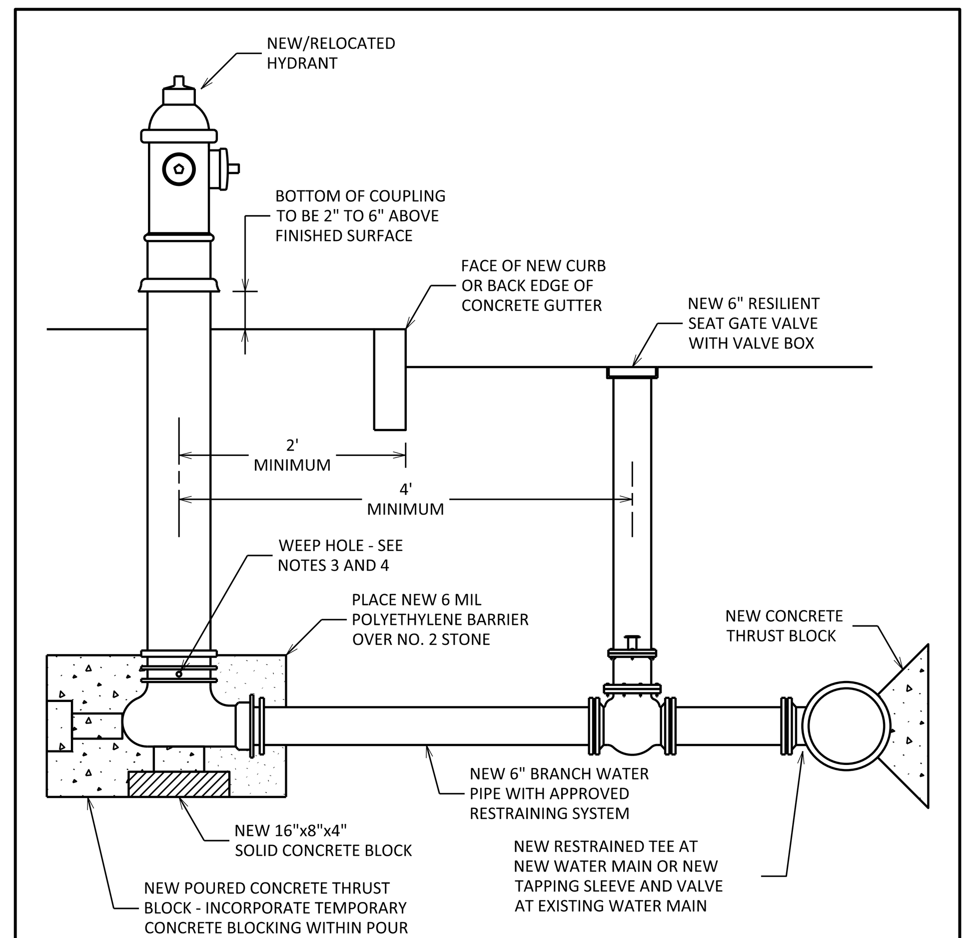
NOTES:

1. SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON DOMESTIC WATER MAIN PIPE LARGER THAN 12 INCHES.
2. THRUST BLOCK IS TO BE POURED AGAINST UNDISTURBED EARTH. WIDTH OF THRUST BLOCK SHOULD BE APPROXIMATELY TWICE HEIGHT.
3. THRUST BLOCK IS TO BE INSTALLED AT ALL BENDS, PLUGS, TEES, AND TAPPING SLEEVE AND VALVE CONNECTIONS.
4. FACTORY CAST OFFSETS ARE TO BE TREATED AS (2) 45 DEGREE BENDS.
5. FOR REDUCERS, THRUST BLOCK IS TO BE KEYED INTO WALLS AND BOTTOM OF TRENCH.
6. MECHANICAL RESTRAINT IS REQUIRED IN ADDITION TO THRUST BLOCK, SEE DETAIL S900-7.
7. WOOD BLOCKING IS NOT PERMITTED.

CITY OF ROCHESTER

HORIZONTAL THRUST BLOCK DOMESTIC SYSTEM

ISSUED 1-13-06 NON-STANDARD
REVISED 11-22-10 DWG.NO.S900-4



NOTES:

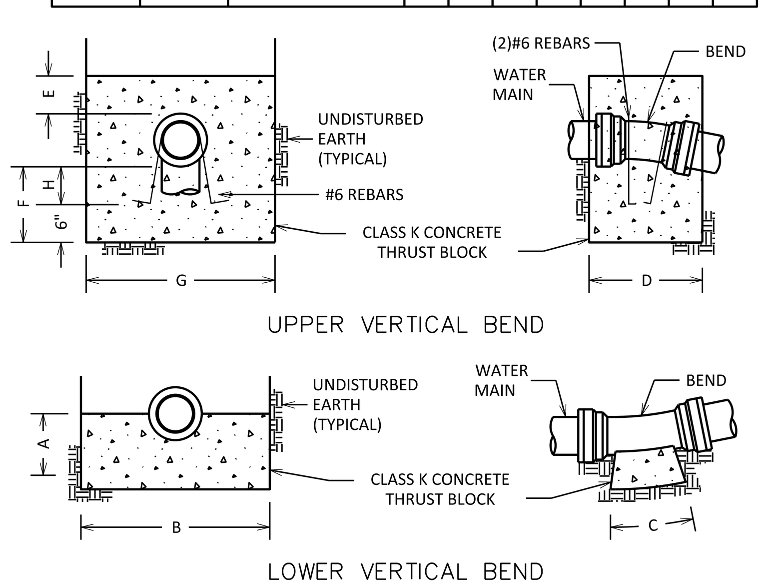
1. PUMPER CONNECTION IS TO FACE PAVEMENT.
2. MECHANICAL JOINT OFFSET OR HYDRANT EXTENSION KIT CAN BE USED TO SET HYDRANT AT PROPER ELEVATION.
3. WHEN GROUND WATER IS ENCOUNTERED IN TRENCH, IF APPROVED OF BY CITY, HYDRANT WEEP HOLES MAY BE PLUGGED AND STONE DRAIN OMITTED.
4. CONTRACTOR IS TO NOTIFY WATER BUREAU IN WRITING WHEN HYDRANT WEEP HOLES HAVE BEEN PLUGGED.

CITY OF ROCHESTER

HYDRANT AND VALVE WITH NEW BRANCH

ISSUED 9-2-91 STD. DWG.
REVISED 5-28-10 NO. R917-1

PIPE SIZE (INCHES)	BEND	TOP SECTION MINIMUM VOLUME CONCRETE	MINIMUM DIMENSIONS (IN FEET) A	B	C	D	E	F	G	H
6"	11-1/4°	0.25 CY	1.0	2.5	1.0	1.5	0.5	1.0	2.5	0.5
	22-1/2°	0.50 CY	1.0	2.5	1.0	1.5	1.0	2.0	2.5	1.5
	45°	0.95 CY	1.0	2.5	1.0	3.0	1.5	2.0	2.5	1.5
	90°	1.30 CY	1.0	2.5	2.0	3.5	1.5	2.0	2.5	1.5
8"	11-1/4°	0.45 CY	1.0	2.7	1.0	1.5	1.0	1.5	2.7	1.0
	22-1/2°	0.90 CY	1.0	2.7	1.0	2.5	1.0	2.0	2.7	1.5
	45°	1.65 CY	1.0	2.7	1.5	3.5	1.5	2.0	3.0	1.5
	90°	2.35 CY	1.5	2.7	3.0	4.0	2.0	3.0	3.0	2.5
12"	11-1/4°	1.05 CY	1.0	3.0	1.5	2.5	1.5	2.0	3.0	1.5
	22-1/2°	2.00 CY	1.0	3.0	1.5	4.0	2.0	2.0	3.0	1.5
	45°	3.70 CY	1.5	3.0	3.0	5.0	2.0	3.0	3.5	2.5
	90°	5.20 CY	1.5	3.0	5.0	5.5	2.5	3.5	4.0	3.0



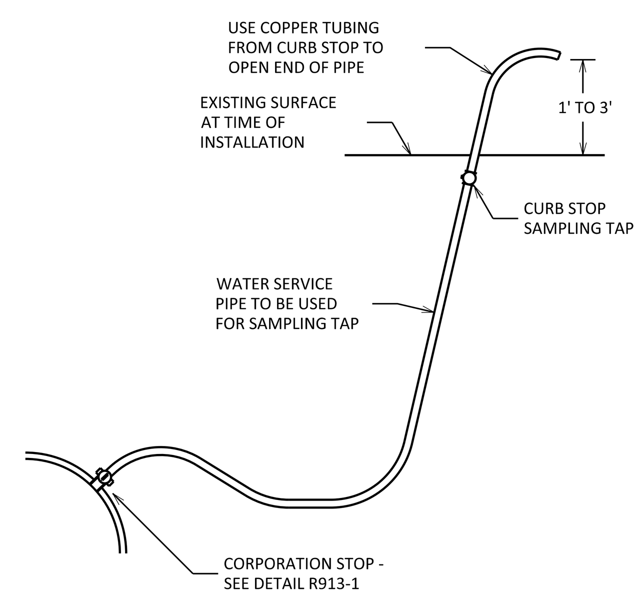
NOTES:

1. SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON DOMESTIC WATER MAIN PIPE LARGER THAN 12 INCHES.
2. MECHANICAL RESTRAINT IS REQUIRED IN ADDITION TO THRUST BLOCK, SEE DETAIL S900-7.

CITY OF ROCHESTER

VERTICAL THRUST BLOCK DOMESTIC SYSTEM

ISSUED 1-13-06 NON-STANDARD
REVISED 6-1-09 DWG.NO.S900-5



NOTES:

1. LOCATION OF SAMPLING TAPS ARE SUBJECT TO PRIOR APPROVAL BY CITY AND MONROE COUNTY DEPERTMENT OF PUBLIC HEALTH.
2. IF SAMPLING TAP IS LOCATED IN PAVED AREA, SAMPLING TAP IS TO BE KEPT BELOW GROUND EXCEPT WHEN IN USE.
3. IF APPROVED BY CITY, SAMPLING TAP MAY BE LOCATED AT SAME LOCATION AS NEW WATER SERVICE.
4. IF SAMPLING TAP IS NOT TO BE USED AS NEW WATER SERVICE, UPON NOTIFICATION OF ACCEPTABLE SAMPLE RESULTS, CORPORATION STOP IS TO BE REMOVED AND REPLACED WITH A BRASS PLUG OR CORPORATION STOP IS TO BE CLOSED, WATER SERVICE PIPE DISCONNECTED FROM CORPORATION AND BRASS CAP INSTALLED ON OUTLET OF CORPORTATION STOP.
5. MAXIMUM DISTANCE BETWEEN SAMPLING TAPS ON NEW WATER MAIN INSTALLATION IS 1,000 FEET.

CITY OF ROCHESTER

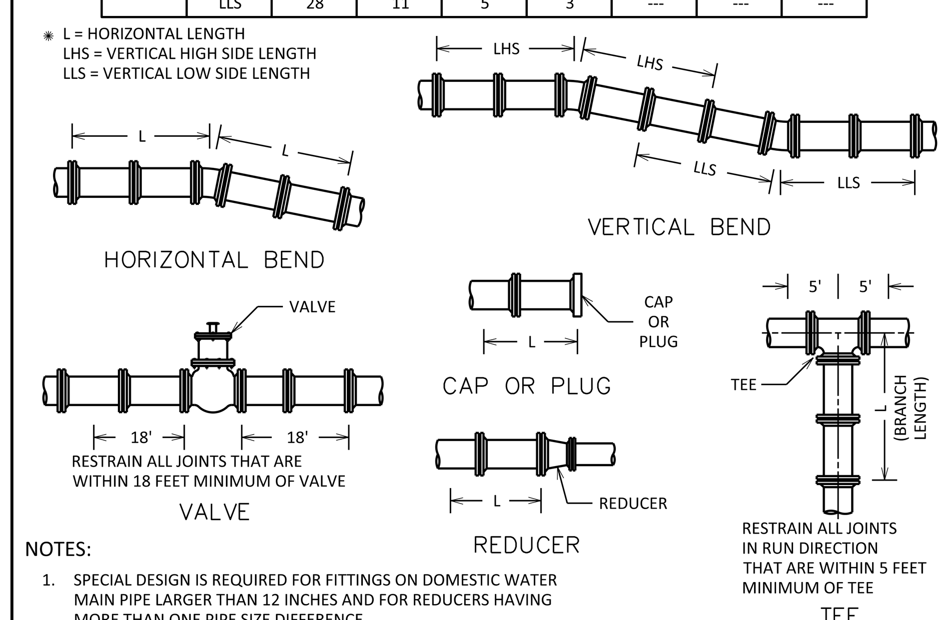
DISINFECTION SAMPLING TAP

ISSUED 1-13-06 NON-STANDARD
REVISED 11-22-10 DWG.NO.S900-6

MINIMUM RESTRAINED LENGTH FOR WATER MAIN PIPE ADJACENT TO FITTINGS
(IN FEET) (BASED ON INTERNAL PRESSURE OF 150 PSI) (SEE NOTE 1)

PIPE SIZE (INCHES)	MINIMUM LENGTH ⁎	90°	45°	22-1/2°	11-1/4°	REDUCER	TEE	CAP PLUG
4" - 6"	L	16	7	3	2	29	16	56
	LHS	49	24	12	6	---	---	---
	LLS	16	6	3	2	---	---	---
8"	L	20	9	4	2	31	33	74
	LHS	64	31	15	8	---	---	---
	LLS	20	8	4	2	---	---	---
12"	L	28	12	6	3	56	64	105
	LHS	91	44	21	11	---	---	---
	LLS	28	11	5	3	---	---	---

⁎ L = HORIZONTAL LENGTH
LHS = VERTICAL HIGH SIDE LENGTH
LLS = VERTICAL LOW SIDE LENGTH



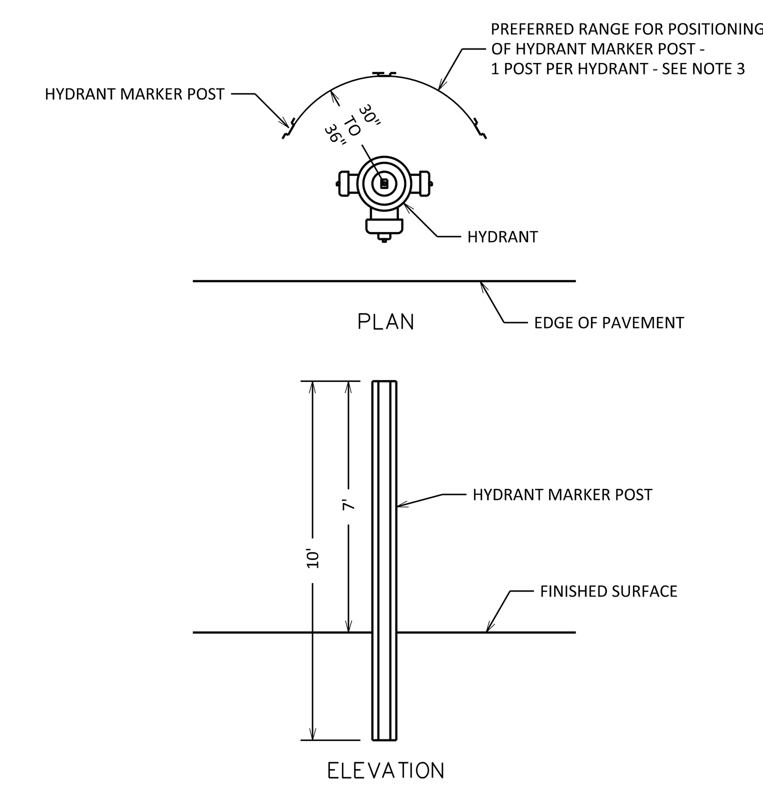
NOTES:

1. SPECIAL DESIGN IS REQUIRED FOR FITTINGS ON DOMESTIC WATER MAIN PIPE LARGER THAN 12 INCHES AND FOR REDUCERS HAVING MORE THAN ONE PIPE SIZE DIFFERENCE.
2. CONCRETE THRUST BLOCK IS TO BE USED IN ADDITION TO MECHANICAL RESTRAINT DEVICES, SEE DETAILS S900-4 AND S900-5.
3. ALL PLASTIC AND POLYETHYLENE WRAPPED DUCTILE IRON DOMESTIC WATER MAIN PIPE AND FITTING JOINTS WITHIN L-LHS-LLS DIMENSIONS MUST BE RESTRAINED USING APPROVED MECHANICAL RESTRAINT DEVICE.
4. ASSUMPTION: SP SOILS, 4.50 FEET COVER, AND TYPE 4 LAYING CONDITION.

CITY OF ROCHESTER

WATER MAIN PIPE RESTRAINT DOMESTIC SYSTEM

ISSUED 5-8-08 NON-STANDARD
REVISED 9-1-09 DWG.NO.S900-7



NOTES:

1. HYDRANT MARKER POST IS TO BE LOCATED SUCH AS TO MINIMIZE INTERFERENCE WITH PEDESTRIAN TRAFFIC AND TO LEAVE MINIMUM 6 FEET CLEAR ZONE FOR SIDEWALK SNOW PLOW OPERATIONS.
2. PREFERRED LOCATION OF HYDRANT MARKER POST IS DIRECTLY BEHIND HYDRANT. IF HYDRANT MARKER POST CANNOT BE SET AT THAT LOCATION IT MAY BE SET AT ONE OF OTHER LOCATIONS AS SHOWN. REGARDLESS OF LOCATION HYDRANT MARKER POST IS NOT TO BLOCK ACCESS TO ANY HYDRANT NOZZLE.
3. HYDRANT MARKER POST IS TO BE SET VERTICALLY PLUMB AND WITH EDGE FLANGES FACING AWAY FROM HYDRANT.
4. IN AREAS OF FULL WIDTH SIDEWALK HYDRANT MARKER POST LOCATION WILL BE AS APPROVED BY CITY.
5. HYDRANT MARKER POST IS NOT TO BE INSTALLED WITHIN GENERAL LIMITS OF CENTRAL BUSINESS DISTRICT.

CITY OF ROCHESTER

HYDRANT MARKER POST

ISSUED 9-2-91 STD. DWG.
REVISED 6-1-09 NO. R917-3

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PROJECT/CLIENT

PORT OF ROCHESTER MARINA DEVELOPMENT PROJECT
ROCHESTER, NY

City of Rochester

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ISSUED FOR

BID

DRAWING TITLE

CONSTRUCTION DETAILS WATER MAIN

DATE:	JULY 22, 2013
SCALE:	NTS
DESIGNED BY:	--
DRAWN BY:	MHB / JRE
REVIEWED BY:	JWM
PROJECT NUMBER:	210660

DRAWING NUMBER

C10.01

PLOTDRVR: BW_Full.pltcfg
MODEL: C10.01
FILE PATH: I:\Edgewater Resources LLP\210660 - Port Marina\Drawings\Civil\Location\Contract.dwg\C9.01-9.03 and C10.01-C10.02 Construction Details - 30x42.dgn
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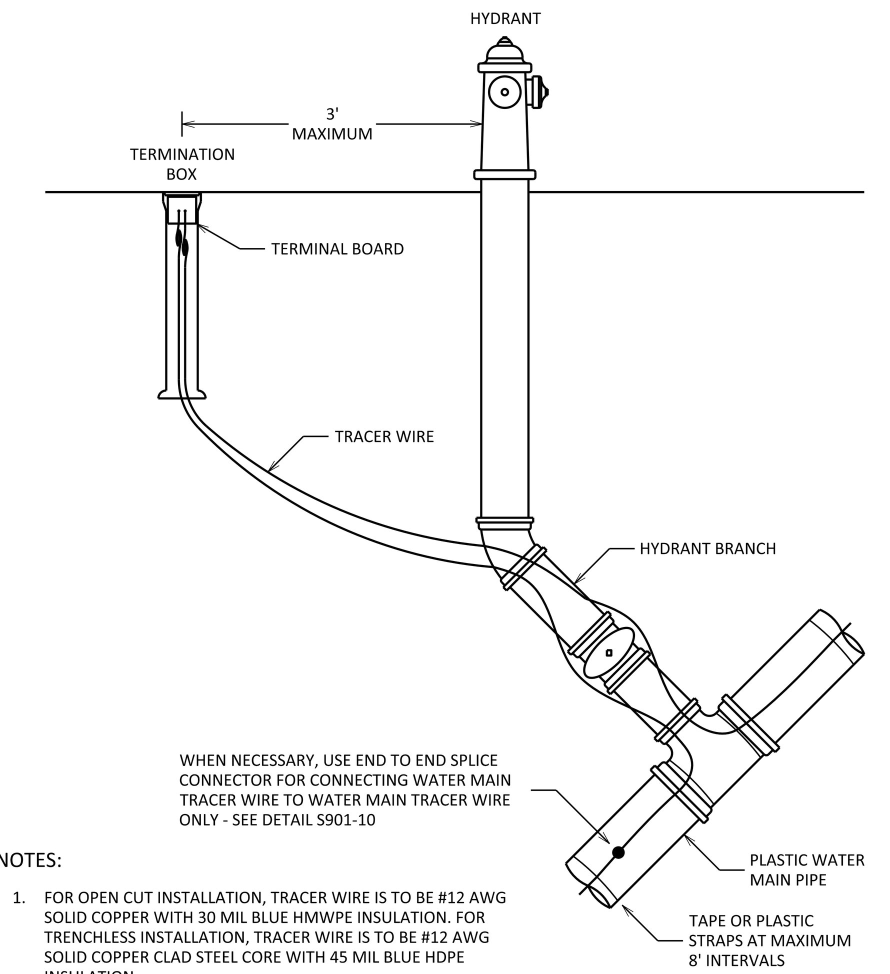


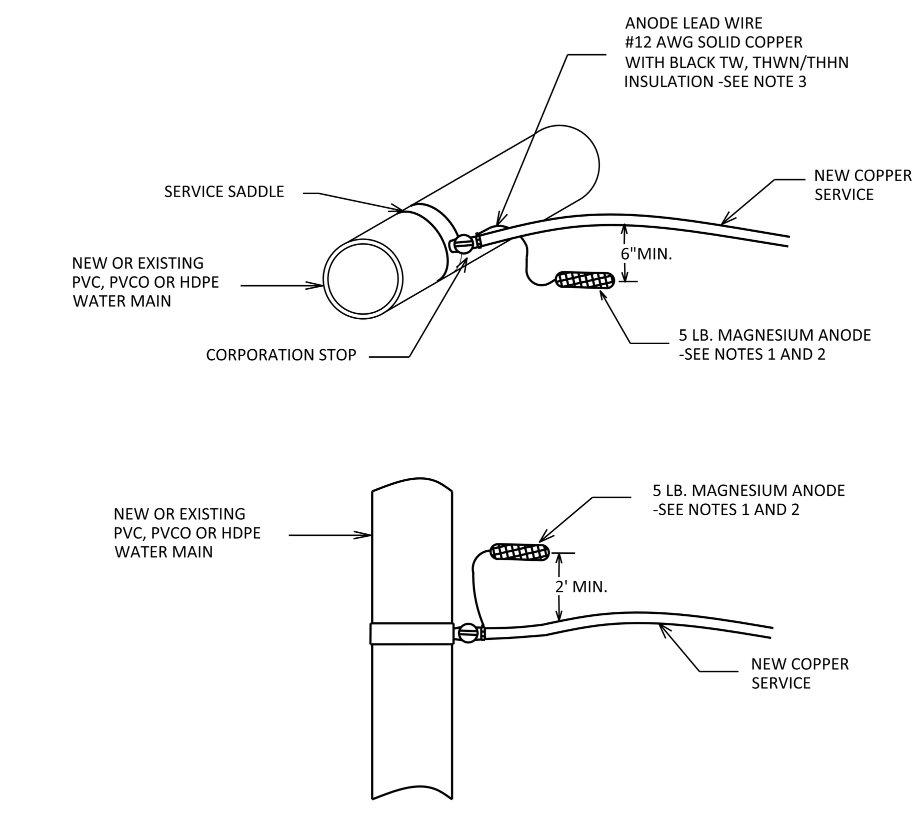
NOTES:

1. FOR OPEN CUT INSTALLATION, TRACER WIRE IS TO BE #12 AWG SOLID COPPER WITH 30 MIL BLUE HMWPE INSULATION. FOR TRENCHLESS INSTALLATION, TRACER WIRE IS TO BE #12 AWG SOLID COPPER CLAD STEEL CORE WITH 45 MIL BLUE HDPE INSULATION.
2. FOR PLASTIC WATER MAIN PIPE, TRACER WIRE IS TO RUN ALONG TOP OF AND BE SECURED TO WATER MAIN PIPE WITH PLASTIC STRAPS OR TAPE PLACED AT MAXIMUM 8 FEET INTERVALS. AT WATER VALVE, TRACER WIRE IS TO RUN ALONG SIDE OF PLASTIC WATER MAIN PIPE.
3. TRACER WIRE IS TO BE CONNECTED TO TERMINATION BOX INSTALLED ADJACENT TO HYDRANT. EXTEND TRACER WIRE UP INSIDE OF TERMINATION BOX LEAVING MINIMUM OF 3 FEET OF TRACER WIRE COILED UP INSIDE TOP OF TERMINATION BOX. CONNECT END OF TRACER WIRE TO TERMINAL BOARD.

CITY OF ROCHESTER

PLASTIC WATER MAIN TRACER WIRE INSTALLATION

ISSUED 1-13-06 NON-STANDARD
REVISED 6-1-09 DWG.NO.S901-8



PLAN

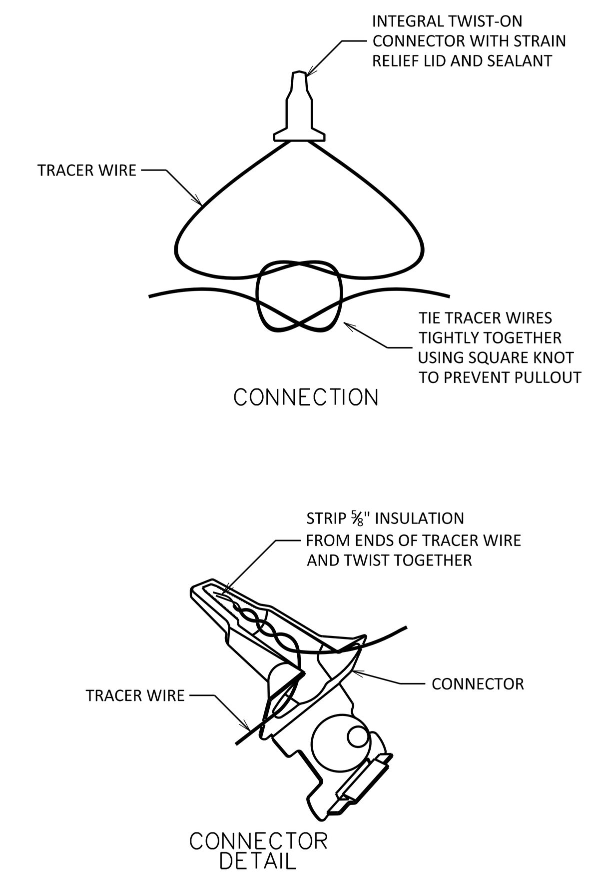
NOTES:

1. USE HIGH POTENTIAL MAGNESIUM ANODE IN PREPACKAGED CLOTH BAG WITH BACKFILL. ANODE WEIGHT IS WEIGHT OF INGOT (EXCLUDING BACKFILL).
2. ANODE IS TO BE PLACED IN TRENCH, WITH ANODE CENTERLINE 6 INCHES MIN. BELOW AND 2 FEET MIN. FROM SIDE OF SERVICE. ANODE TO BE SURROUNDED WITH NATIVE BACKFILL MATERIAL.
3. STRIP INSULATION FROM WITHIN ½ INCH OF END OF ANODE LEAD WIRE. FOR ¾ INCH AND 1INCH COPPER SERVICES, ATTACH END OF ANODE LEAD WIRE TO THAW WIRE TYPE COPPER TUBE NUT AT OUTLET END OF CORPORATION STOP. FOR 1½ INCH AND 2 INCH COPPER SERVICES, ATTACH END OF ANODE LEAD WIRE TO BRONZE GROUND CLAMP THAT IS FIRMLY SECURED TO THE SERVICE.

CITY OF ROCHESTER

ANODE AT NEW COPPER WATER SERVICE ON PLASTIC WATER MAIN

ISSUED 11-26-08 NON-STANDARD
REVISED 12-28-10 DWG.NO.S966-3



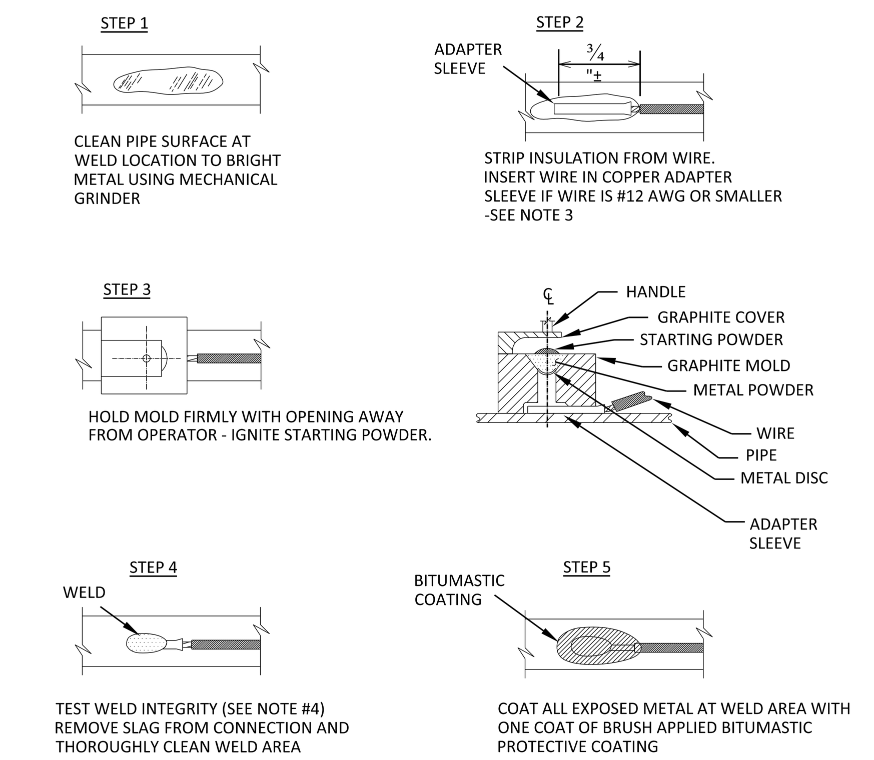
NOTE:

END TO END SPLICE CONNECTION IS TO BE USED ONLY FOR SPLICING TWO ENDS OF WATER MAIN TRACER WIRE TOGETHER WITH CONNECTION BEING MADE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

CITY OF ROCHESTER

PLASTIC WATER MAIN TRACER WIRE END TO END SPLICE CONNECTION

ISSUED 6-1-09 NON-STANDARD
REVISED 11-22-10 DWG.NO.S901-10



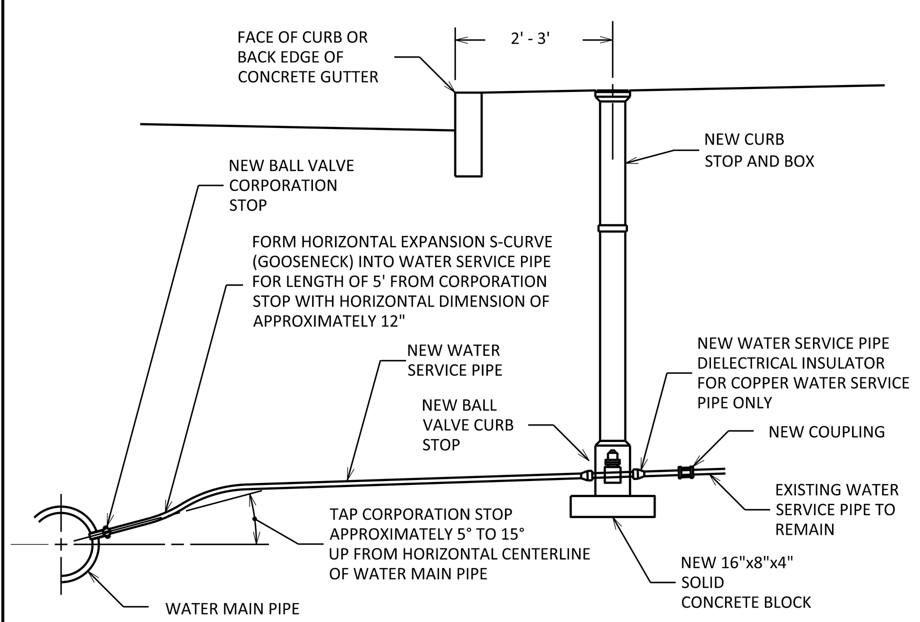
NOTES:

1. FOLLOW MANUFACTURER'S PROCEDURES AND RECOMMENDATIONS WHEN THERMITE WELDING.
2. USE APPROPRIATE WELD MOLDS AND WELD METALS FOR SPECIFIC SIZE AND MATERIAL OF PIPE THAT WIRE IS BEING ATTACHED TO.
3. WHEN THERMITE WELDING #12 AWG WIRES OR SMALLER, INSERT END OF WIRE INTO AN APPROVED COPPER SLEEVE PRIOR TO THERMITE WELDING AND CRIMP SLEEVE ON WIRE.
4. TEST WELD INTEGRITY BY STRIKING WELD WITH A HAMMER AFTER WELD HAS COOLED. AVOID STRIKING WIRE.

CITY OF ROCHESTER

THERMITE WELD DETAILS

ISSUED 10-17-08 NON-STANDARD
REVISED 12-28-10 DWG.NO.S966-2



NOTES:

1. WATER SERVICE PIPE IS TO HAVE MINIMUM COVER DEPTH OF 4.50 FEET FROM FINISHED SURFACE.
2. WATER SERVICE TAP IS TO BE MADE ON CUSTOMER SIDE OF WATER MAIN PIPE. FOR PLASTIC WATER MAIN PIPE USE WIDE STRAP BRASS TAPPING SADDLE. FOR CAST/DUCTILE IRON WATER MAIN PIPE USE DOUBLE STRAP BRASS TAPPING SADDLE, SEE TABLE.
3. WATER SERVICE PIPE IS TO RUN PERPENDICULAR TO WATER MAIN PIPE.
4. FOR WATER SERVICE PIPE 1½ INCHES AND LARGER, ADD CURB BOX ARCH TO CURB BOX.
5. TRACER WIRE MUST BE INSTALLED FOR PLASTIC WATER SERVICE PIPE, SEE DETAILS S901-9 AND S901-11.
6. MAGNESIUM ANODE MUST BE INSTALLED FOR COPPER WATER SERVICE PIPE, SEE DETAIL S966-3.
7. WARNING TAPE MUST BE INSTALLED WITH ALL OPEN CUT TRENCHED WATER SERVICE PIPE INSTALLATIONS.
8. REFER TO WATER BUREAU'S APPROVED PRODUCT LIST FOR LIST OF APPROVED WATER SERVICE PRODUCTS.

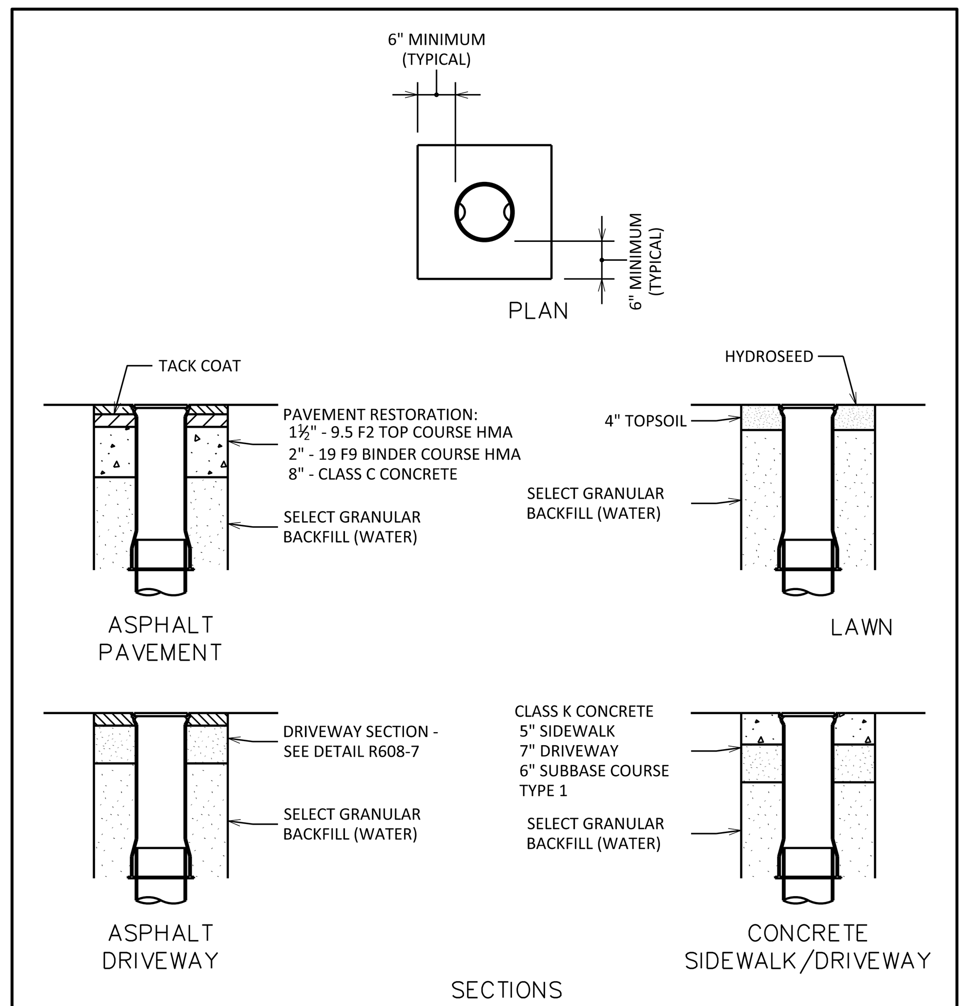
SERVICE SADDLE REQUIREMENTS FOR TAPS ON CAST/DUCTILE IRON WATER MAIN PIPE

WATER MAIN PIPE SIZE (INCHES)	MAXIMUM TAP SIZE ALLOWED w/o SERVICE SADDLE (INCHES)
4" - 6"	ALL TAPS REQUIRE SADDLE
8" - 10"	¾"
12"	1"
16" AND LARGER	1½"

CITY OF ROCHESTER

WATER SERVICE PIPE 2 INCH AND SMALLER

ISSUED 9-2-91 STD. DWG.
REVISED 6-1-09 NO. R913-1



NOTES:

1. ADJUST EXISTING WATER VALVE BOX AND COVER, OR INSTALL NEW WATER VALVE BOX AND COVER. SET TOP TO GRADE.
2. IF ADJUSTING EXISTING WATER VALVE BOX AND COVER, EXISTING FLANGE IS TO REMAIN, DO NOT REMOVE.

CITY OF ROCHESTER

WATER VALVE BOX ADJUSTMENT OR REPLACEMENT

ISSUED 2-10-00 NON-STANDARD
REVISED 6-1-09 DWG.NO.S909-1

CITY OF ROCHESTER
WATER SERVICE INSTALLATION DATA

PROPERTY ADDRESS: ____________
STREET SERVICE TAPPED ON (IF DIFFERENT): ____________
DATE OF INSTALLATION: ________ DOMESTIC OR HOLLY SYSTEM? ________
TAP SIZE: ____ DISTANCE, MAIN TO ROW LINE: ____ SIDE OF ST. TAPPED: ____
CURB STOP/VALVE SIZE: ____ SERVICE LENGTH: ____ SERVICE MATERIAL: ____
CONTRACTOR/PLUMBER: ____________
TAP INSTALLED BY: ________ INSPECTOR: ________
CURB OR OPERATING VALVE LOCATION *: ____________
TAP OR GUARD VALVE LOCATION (IF DIFFERENT): ____________
INSULATOR INSTALLED? ________ IF YES, WHERE: ________
ANODE BAG INSTALLED? ________ IF YES, SIZE: ________
INSIDE SERVICE MATERIAL & SIZE: ____________
* MEASURED FROM ROW OF NEAREST INTERSECTING STREET/NEAREST HYDRANT JUNE 2009

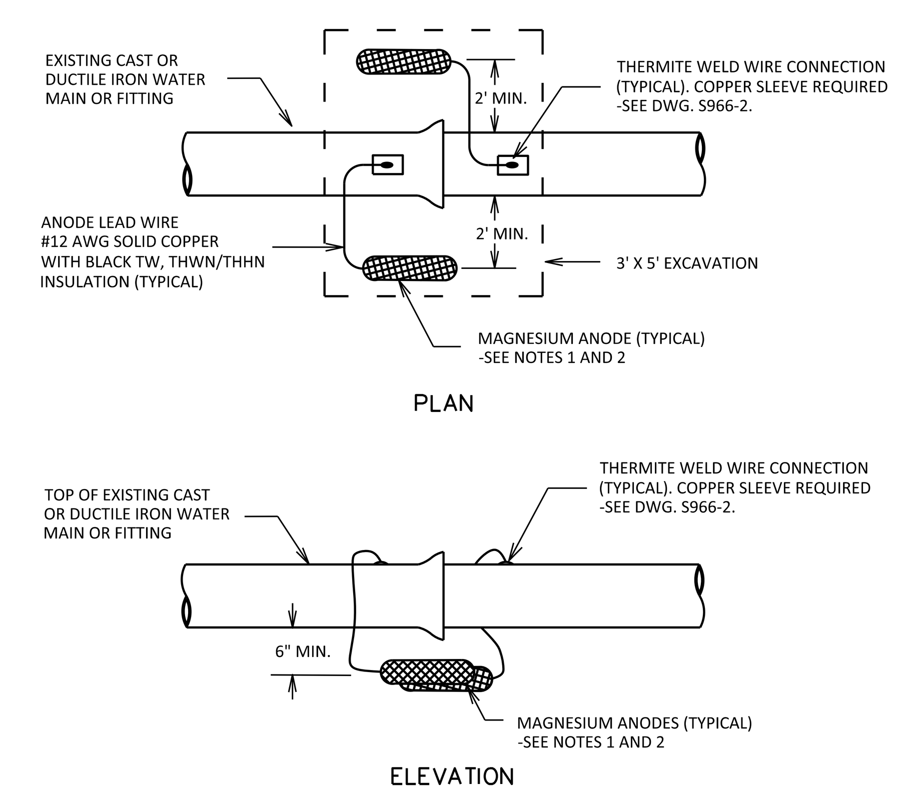
NOTES:

1. WATER SERVICE CARD WILL BE SUPPLIED BY WATER BUREAU. REQUIRED INFORMATION IS TO BE TYPED OR NEATLY PRINTED ON WATER SERVICE CARD.
2. FOR CORNER LOT WHERE WATER SERVICE IS INSTALLED ON SIDE STREET AND NOT IN FRONT OF GIVEN PROPERTY ADDRESS, SEPARATE WATER SERVICE CARDS ARE TO BE MADE FOR EACH STREET.
3. WATER SERVICE CARD FOR WATER SERVICE THAT IS ABANDONED AT TAP IS TO BE MARKED "ABANDONED AT TAP" ACROSS FACE OF WATER SERVICE CARD WITH CONTRACTOR'S NAME AND DATE ABANDONED BEING NOTED.
4. MEASUREMENT FOR LOCATION OF CURB STOP IS TO BE TAKEN FROM RIGHT-OF-WAY EXTENSION OF NEAREST INTERSECTING STREET AS MEASURED PARALLEL TO STREET ON WHICH WATER SERVICE IS INSTALLED, OR FROM NEAREST HYDRANT LOCATED OFF OF SAME WATER MAIN, WHICHEVER IS CLOSEST.

CITY OF ROCHESTER

WATER SERVICE CARD

ISSUED 9-2-91 STD. DWG.
REVISED 7-1-09 NO. R913-3



NOTES:

1. USE HIGH POTENTIAL MAGNESIUM ANODE IN PREPACKAGED CLOTH BAG WITH BACKFILL. BARE WEIGHT OF ANODE INGOT (EXCLUDING BACKFILL) AND NUMBER OF ANODES AS NOTED ON PLANS OR AS DIRECTED BY PROJECT MANAGER.
2. ANODE IS TO BE PLACED IN TRENCH, WITH ANODE CENTERLINE 6 INCHES MINIMUM BELOW BOTTOM OF MAIN AND 2 FEET MINIMUM FROM SIDE WALL OF MAIN. ANODE TO BE SURROUNDED WITH NATIVE BACKFILL.
3. WHEN FOUR ANODES ARE REQUIRED AT EACH JOINT, TWO ANODES SHALL BE INSTALLED ON EACH SIDE OF PIPE WITH 3 FEET SEPARATION BETWEEN ANODES ON EACH SIDE OF PIPE. EXCAVATED AREA SHALL BE EXTENDED ALONG LENGTH OF WATER MAIN, AS NEEDED.

CITY OF ROCHESTER

ANODE AT EXISTING DUCTILE/CAST IRON PIPE JOINT (RECONSTRUCTION)

ISSUED 12-21-09 NON-STANDARD
REVISED 12-28-10 DWG.NO.S966-5

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Planning

PROJECT/CLIENT

PORT OF ROCHESTER MARINA DEVELOPMENT PROJECT
ROCHESTER, NY

City of Rochester

NO.	DATE	REVISION
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ISSUED FOR

BID

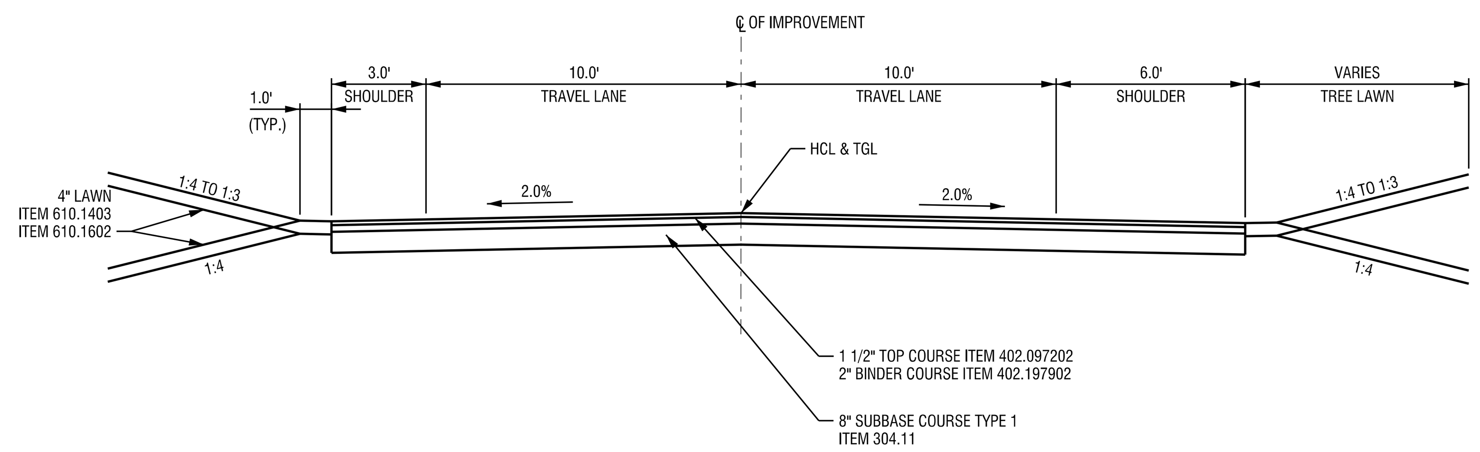
DRAWING TITLE

CONSTRUCTION DETAILS WATER MAIN

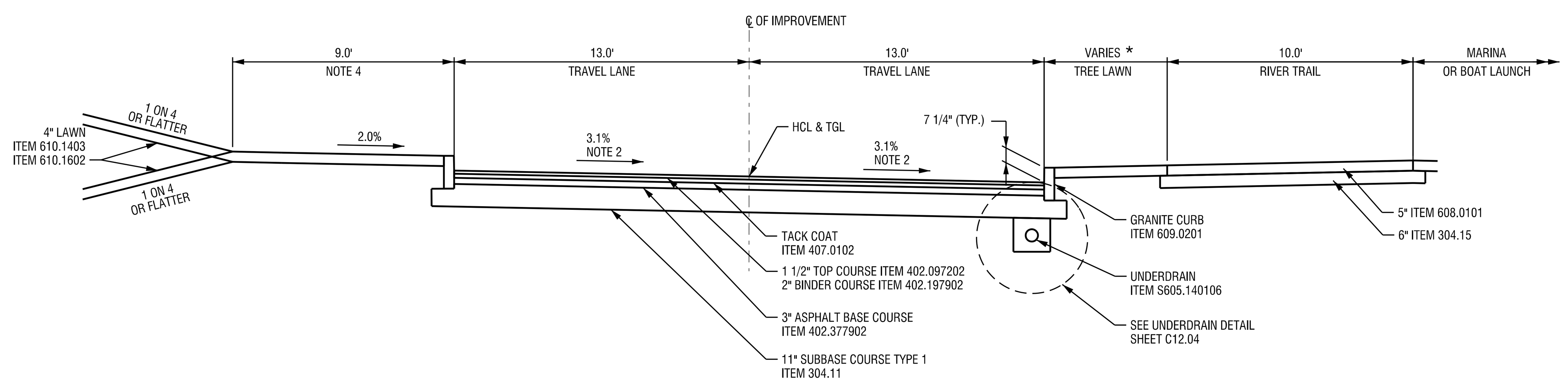
DATE:	JULY 22, 2013
SCALE:	NTS
DESIGNED BY:	JRE
DRAWN BY:	JRE
REVIEWED BY:	JWM
PROJECT NUMBER:	210660

DRAWING NUMBER

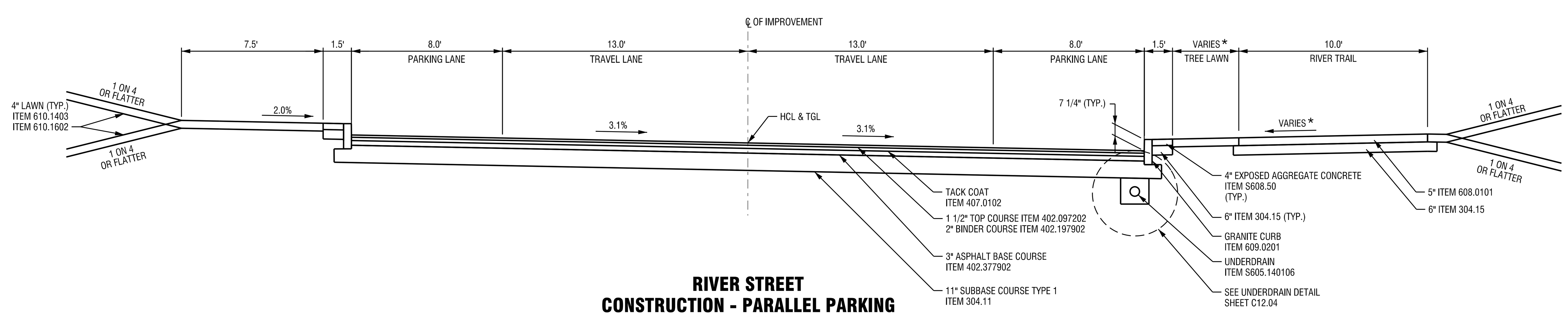
C10.02



STREET A
NEW CONSTRUCTION
A 1+12 TO A 2+00



RIVER STREET
CONSTRUCTION - NO PARKING
STA. R27+90 TO R30+18
STA. R32+50 RT., +94 LT. TO R34+25
STA. R36+81 TO R40+00



RIVER STREET
CONSTRUCTION - PARALLEL PARKING
STA. R 24+47 TO R27+90
STA. R30+18 TO R32+50 RT., +94 LT.
STA. R34+25 TO R36+81 (-PARKING LT.)

TYPICAL SECTION ITEM LIST REFERENCES

ITEM NO.	ITEM DESCRIPTION	UNIT	ITEM NO.	ITEM DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	608.0101	CONCRETE SIDEWALKS AND DRIVEWAYS	CY
203.03	EMBANKMENT IN PLACE	CY	609.0201	STONE CURB, GRANITE, (TYPE A)	LF
304.11	SUBBASE COURSE, TYPE 1	CY	610.1403	TOPSOIL - LAWNS	CY
304.12	SUBBASE COURSE, TYPE 2	CY	610.1602	TURF ESTABLISHMENT - LAWNS	SY
402.097202	9.5 F2 TOP COURSE HMA, 70 SERIES COMPACTION	TON	304.15	SUBBASE COURSE, (TYPE 1 OR TYPE 2)	CY
402.197902	19 F9 BINDER COURSE HMA, 70 SERIES COMPACTION	TON	490.15	PRODUCTION COLD MILL SURFACE PLANING OF BITUMINOUS CONCRETE	SY
402.377902	37.5 F9 BASE COURSE HMA, 70 SERIES COMPACTION	TON	S608.50	EXPOSED AGGREGATE CONCRETE	CY
407.0102	DILUTED TACK COAT	GAL	S608.0305	PRECAST CONCRETE PAVERS	SY
S605.140106	6" DIAMETER CORRUGATED POLYETHYLENE UNDERDRAIN	LF			

NOTES:

1. CONCRETE SIDEWALKS TO BE 5" THICK (7" AT DRIVEWAYS AND CURB RAMPS).
2. SEE PROFILES, DWGS. C5.01 TO C5.03 FOR TRANSITIONS IN CROSS SLOPE.
3. TACK COAT SHALL BE PLACED BETWEEN EACH LIFT OF ASPHALT.
4. REFER TO LANDSCAPE PLANS FOR LOCATIONS AND WIDTHS OF SIDEWALK. DWGS. LS1.01 & LS1.02

* SEE DWG C4.02, LS1.01 AND LS1.02 FOR WIDTHS. SEE DWG. C6.01 & C6.02 GRADING PLANS FOR TRAIL ELEVATIONS AND CROSS SLOPE.

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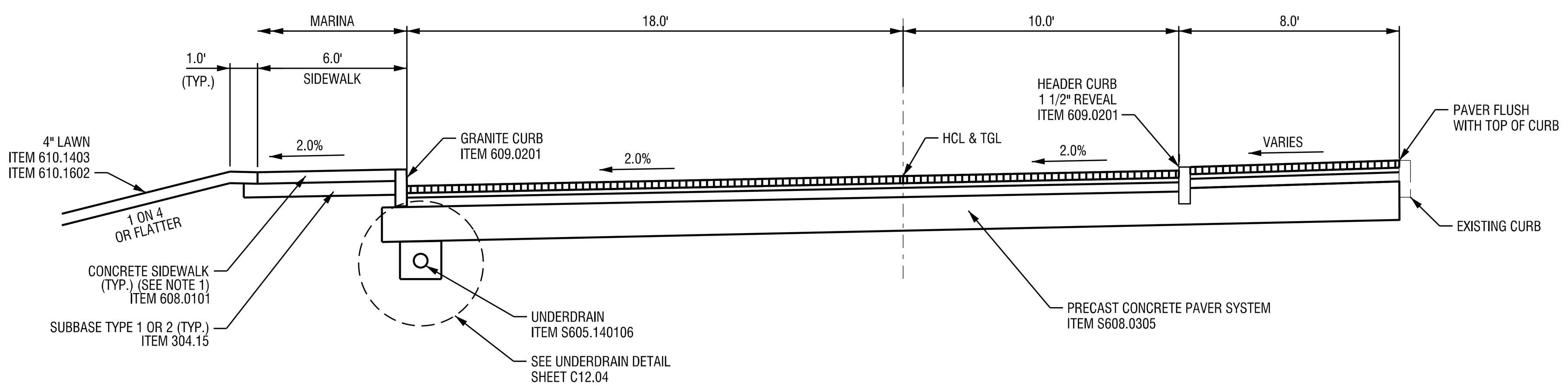
TYPICAL SECTIONS STREETS

DATE:	JULY 22, 2013
SCALE:	1/4" = 1'-0"
DESIGNED BY:	CAE
DRAWN BY:	VLG
REVIEWED BY:	CAE
PROJECT NUMBER:	210660

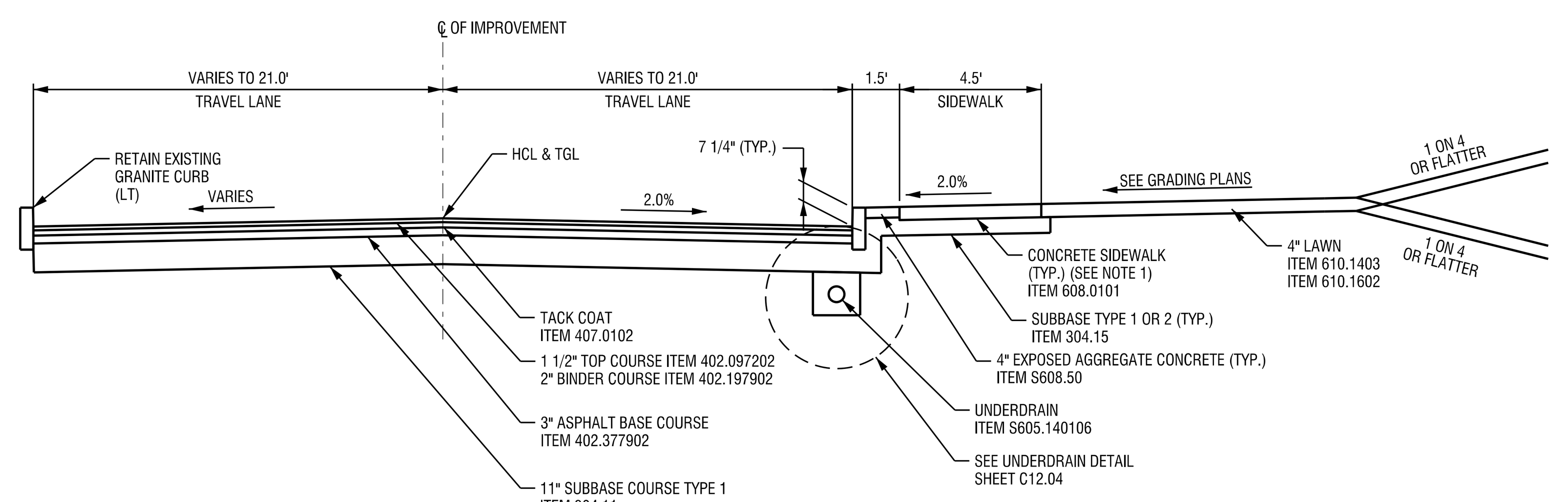
DRAWING NUMBER

C11.01



DROP-OFF LOOP RECONSTRUCTION

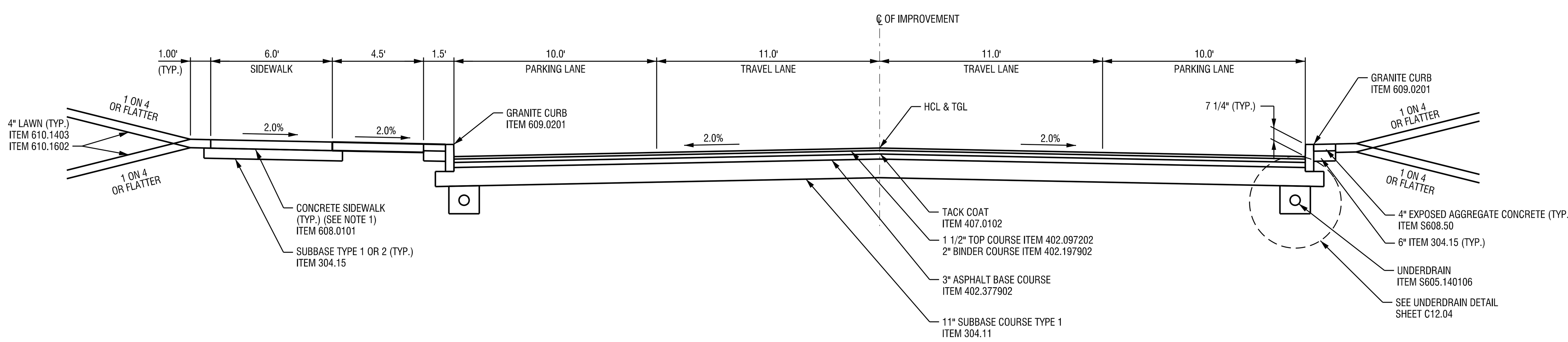
D1+18 TO D3+60



CORRIGAN STREET RECONSTRUCTION NORMAL CROWN

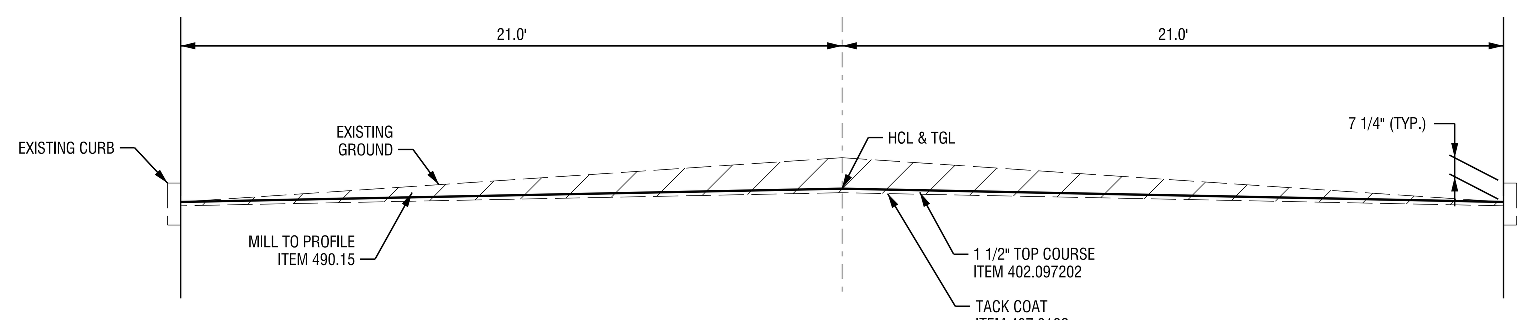
RIVER STREET INTERSECTION

C4+95 TO C5+75



PORTSIDE DRIVE RECONSTRUCTION NORMAL CROWN

STA. P11+75 TO P12+50



PORTSIDE DRIVE MILL & RESURFACE

STA. P11+25 TO P11+75

TYPICAL SECTION ITEM LIST REFERENCES

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203.03	EMBANKMENT IN PLACE	CY	609.0201	STONE CURB, GRANITE, (TYPE A)	LF
304.11	SUBBASE COURSE, TYPE 1	CY	610.1403	TOPSOIL - LAWNS	CY
304.12	SUBBASE COURSE, TYPE 2	CY	610.1602	TURF ESTABLISHMENT - LAWNS	SY
402.097202	9.5 F2 TOP COURSE HMA, 70 SERIES COMPACTION	TON	304.15	SUBBASE COURSE, OPTIONAL TYPE	CY
402.197902	19 F9 BINDER COURSE HMA, 70 SERIES COMPACTION	TON	490.15	PRODUCTION COLD MILL SURFACE PLANING OF BITUMINOUS CONCRETE	SY
402.377902	37.5 F9 BASE COURSE HMA, 70 SERIES COMPACTION	TON	S608.50	EXPOSED AGGREGATE CONCRETE	CY
407.0102	DILUTED TACK COAT	GAL	S608.0305	PRECAST CONCRETE PAVERS	SF
S605.140106	6" DIAMETER CORRUGATED POLYETHYLENE UNDERDRAIN	LF			

NOTES:

1. CONCRETE SIDEWALKS TO BE 5" THICK (7" AT DRIVEWAYS AND CURB RAMPS).
2. SEE PROFILES, DWGS. C5.01 TO C5.03 FOR TRANSITIONS IN CROSS SLOPE.
3. TACK COAT SHALL BE PLACED BETWEEN EACH LIFT OF ASPHALT.
4. REFER TO LANDSCAPE PLANS FOR LOCATIONS AND WIDTHS OF SIDEWALK. DWGS. LS1.01 & LS1.02

* SEE DWG C4.02, LS1.01 AND LS1.02 FOR WIDTHS

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DATE TIME 7/11/2013 4:47:53 PM

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TYPICAL SECTIONS STREETS

DATE:	JULY 22, 2013
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C11.02