

CITY OF WORCESTER

DEPARTMENT OF TRANSPORTATION AND MOBILITY

PLAN OF

COMPLETE STREETS IMPROVEMENTS - PHASE 1

IN THE CITY OF

WORCESTER, MA

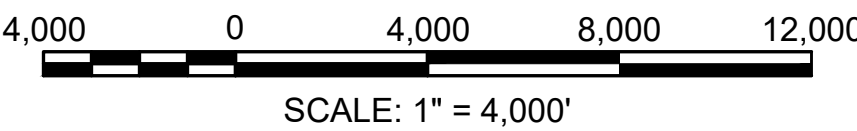
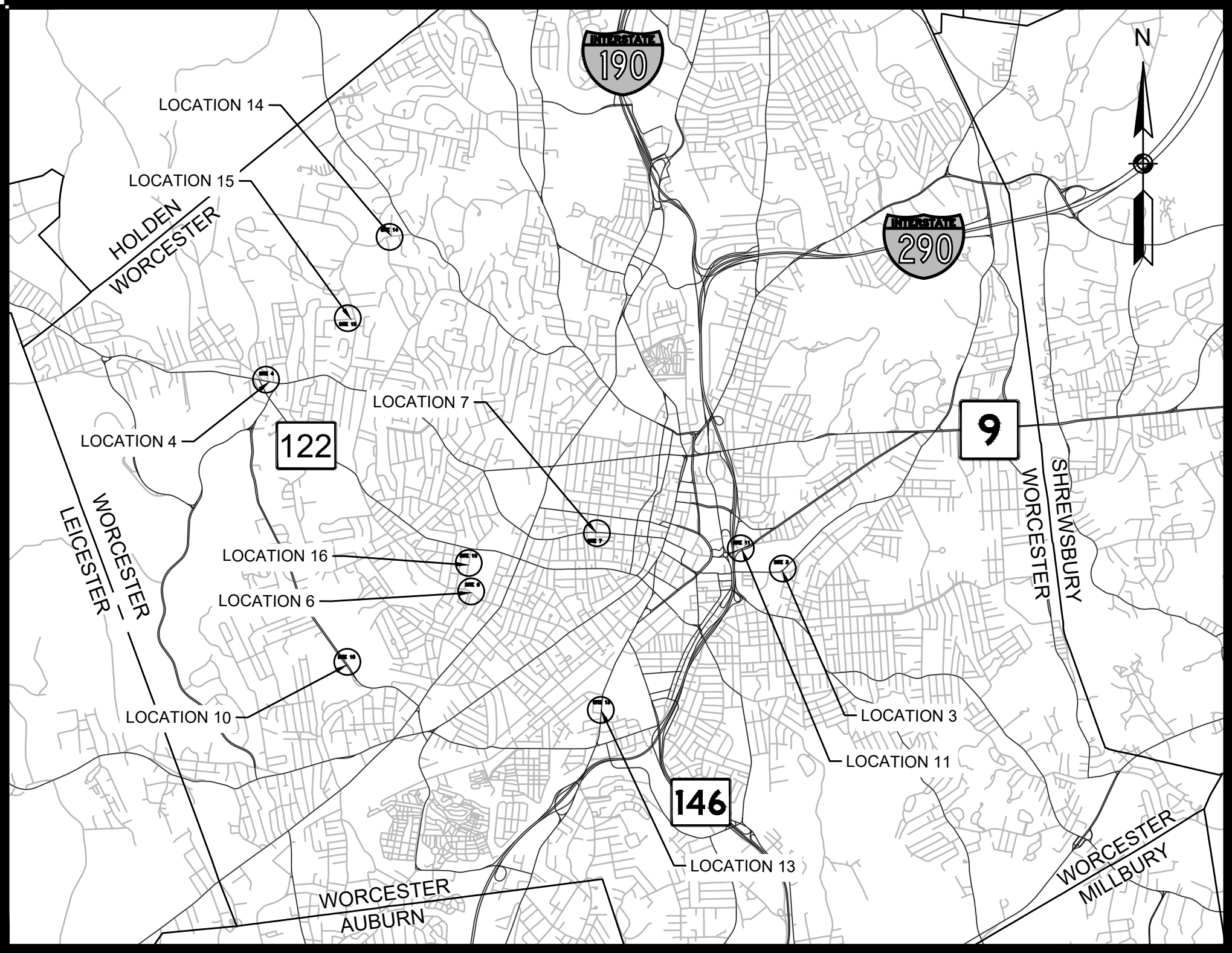
WORCESTER COUNTY

WORCESTER
COMPLETE STREETS IMPROVEMENTS
TITLE SHEET & INDEX
SHEET 1 OF 40

THESE PLANS ARE SUPPLEMENTED BY THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

FINAL DESIGN

SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX
2	LEGEND & ABBREVIATIONS
4	KEY PLAN
5-12	CONSTRUCTION PLANS
13-20	GRADING PLANS
21-29	TRAFFIC SIGN & PAVEMENT MARKING PLANS
30	TRAFFIC SIGN SUMMARY SHEET
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32-33	TEMPORARY TRAFFIC CONTROL PLANS
34-40	CONSTRUCTION DETAILS



7/30/2026	FINAL DESIGN	2
2/27/2026	PRELIMINARY DESIGN	1
10/9/2025	PRELIMINARY DESIGN	0
DATE	DESCRIPTION	REV #

7/31/2026

TEC, Inc.

282 Merrimack Street
2nd Floor
Lawrence, MA 01843
978-794-1792

311 Main Street
2nd Floor
Worcester, MA 01608
508-868-5104

169 Ocean Blvd, Unit 3
PO Box 249
Hampton, NH 03842
603-601-8154

www.TheEngineeringCorp.com

APPROVED BY: JMD	DESIGNED BY: JSB/JM/KC	DATE: SEPTEMBER 12, 2025
CHECKED BY: JDD/JSB	DRAWN BY: JSB/JM/KC	TEC PROJECT NO: T1659

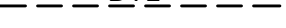
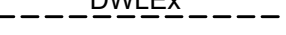
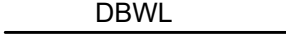
GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		JERSEY BARRIER
		CATCH BASIN
		CATCH BASIN CURB INLET
		FLAG POLE
		GAS PUMP
		MAIL BOX
		POST SQUARE
		POST CIRCULAR
		WELL
		ELECTRIC HANDHOLE
		FENCE GATE POST
		GAS GATE
		BORING HOLE
		MONITORING WELL
		TEST PIT
		HYDRANT
		LIGHT POLE
		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		MASSACHUSETTS HIGHWAY BOUND
		MONUMENT
		STONE BOUND
		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
		TROLLEY POLE OR GUY POLE
		TRANSMISSION POLE
		UTILITY POLE W/ FIREBOX
		UTILITY POLE WITH DOUBLE LIGHT
		UTILITY POLE W / 1 LIGHT
		UTILITY POLE
		BUSH
		TREE
		STUMP
		SWAMP / MARSH
		WATER GATE
		PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
		CONTOURS (ON-THE-GROUND SURVEY DATA)
		CONTOURS (PHOTOGRAMMETRIC DATA)
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		GUARD RAIL - DOUBLE FACE - STEEL POSTS
		GUARD RAIL - DOUBLE FACE - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		HAY BALES/SILT FENCE
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		VIDEO DETECTION CAMERA
		MICROWAVE DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
		RAILROAD SIGNAL
		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
		MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
		MAST ARM WITH LUMINAIRE
		OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL AND METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE
		STOP LINE
		CROSSWALK
		SOLID WHITE LINE
		SOLID YELLOW LINE
		BROKEN WHITE LINE
		BROKEN YELLOW LINE
		DOTTED WHITE LINE
		DOTTED YELLOW LINE
		DOTTED WHITE LINE EXTENSION
		DOTTED YELLOW LINE EXTENSION
		DOUBLE WHITE LINE
		DOUBLE YELLOW LINE

ABBREVIATIONS

GENERAL		WORCESTER	
ADDT	ANNUAL AVERAGE DAILY TRAFFIC	COMPLETE STREETS IMPROVEMENTS	
ABAN	ABANDON	LEGEND & ABBREVIATIONS	
ADJ	ADJUST	SHEET 2 OF 40	
APPROX.	APPROXIMATE		
A.C.	ASPHALT CONCRETE		
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE		
BIT.	BITUMINOUS		
BC	BOTTOM OF CURB		
BD.	BOUND		
BL	BASELINE		
BLDG	BUILDING	ABBREVIATIONS (cont.)	
BM	BENCHMARK		
BO	BY OTHERS	GENERAL	
BOS	BOTTOM OF SLOPE	R	RADIUS OF CURVATURE
BR.	BRIDGE	R&D	REMOVE AND DISPOSE
CB	CATCH BASIN	RCP	REINFORCED CONCRETE PIPE
CBCI	CATCH BASIN WITH CURB INLET	RD	ROAD
CC	CEMENT CONCRETE	RDWY	ROADWAY
CCM	CEMENT CONCRETE MASONRY	REM	REMOVE
CEM	CEMENT	RET	RETAIN
CI	CURB INLET	RET WALL	RETAINING WALL
CIP	CAST IRON PIPE	ROW	RIGHT OF WAY
CLF	CHAIN LINK FENCE	RR	RAILROAD
CL	CENTERLINE	R&R	REMOVE AND RESET
CMP	CORRUGATED METAL PIPE	R&S	REMOVE AND STACK
CSP	CORRUGATED STEEL PIPE	RT	RIGHT
CO.	COUNTY	SB	STONE BOUND
CONC	CONCRETE	SHLD	SHOULDER
CONT	CONTINUOUS	SMH	SEWER MANHOLE
CONST	CONSTRUCTION	ST	STREET
CR GR	CROWN GRADE	STA	STATION
DHV	DESIGN HOURLY VOLUME	SSD	STOPPING SIGHT DISTANCE
DI	DROP INLET	SHLO	STATE HIGHWAY LAYOUT LINE
DIA	DIAMETER	SW	SIDEWALK
DIP	DUCTILE IRON PIPE	T	TANGENT DISTANCE OF CURVE/TRUCK %
DW	STEADY DON'T WALK - PORTLAND ORANGE	TAN	TANGENT
DWY	DRIVEWAY	TEMP	TEMPORARY
ELEV (or EL.)	ELEVATION	TC	TOP OF CURB
EMB	EMBANKMENT	TOS	TOP OF SLOPE
EOP (or EP)	EDGE OF PAVEMENT	TYP	TYPICAL
EXIST (or EX)	EXISTING	UP	UTILITY POLE
EXC	EXCAVATION	VAR	VARIES
F&C	FRAME AND COVER	VERT	VERTICAL
F&G	FRAME AND GRATE	VC	VERTICAL CURVE
FDN.	FOUNDATION	WCR	WHEEL CHAIR RAMP
FLDSTN	FIELDSTONE	WG	WATER GATE
GAR	GARAGE	WIP	WROUGHT IRON PIPE
GD	GROUND	WM	WATER METER/WATER MAIN
GG	GAS GATE	X-SECT	CROSS SECTION
GI	GUTTER INLET		
GIP	GALVANIZED IRON PIPE		
GRAN	GRANITE		
GRAV	GRAVEL		
GRD	GUARD	TRAFFIC SIGNAL ABBREVIATIONS	
HDW	HEADWALL	CAB	CABINET
HMA	HOT MIX ASPHALT	CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
HOR	HORIZONTAL	DW	STEADY UPRAISED HAND
HYD	HYDRANT	FDW	FLASHING UPRAISED HAND
INV	INVERT	FR	FLASHING CIRCULAR RED
JCT	JUNCTION	FRL	FLASHING RED LEFT ARROW
L	LENGTH OF CURVE	FRR	FLASHING RED RIGHT ARROW
LB	LEACH BASIN	FY	FLASHING CIRCULAR YELLOW
LP	LIGHT POLE	FYL	FLASHING YELLOW LEFT ARROW
LT	LEFT	FYR	FLASHING YELLOW RIGHT ARROW
MAX	MAXIMUM	G	STEADY CIRCULAR GREEN
MB	MAILBOX	GL	STEADY GREEN LEFT ARROW
MH	MANHOLE	GR	STEADY GREEN RIGHT ARROW
MHB	MASSACHUSETTS HIGHWAY BOUND	GSL	STEADY GREEN SLASH LEFT ARROW
MIN	MINIMUM	GSR	STEADY GREEN SLASH RIGHT ARROW
NIC	NOT IN CONTRACT	GV	STEADY GREEN VERTICAL ARROW
NO.	NUMBER	OL	OVERLAP
PC	POINT OF CURVATURE	PED	PEDESTRIAN
PCC	POINT OF COMPOUND CURVATURE	PTZ	PAN, TILT, ZOOM
P.G.L.	PROFILE GRADE LINE	R	STEADY CIRCULAR RED
PI	POINT OF INTERSECTION	RL	STEADY RED LEFT ARROW
POC	POINT ON CURVE	RR	STEADY RED RIGHT ARROW
POT	POINT ON TANGENT	TR SIG	TRAFFIC SIGNAL
PRC	POINT OF REVERSE CURVATURE	TSC	TRAFFIC SIGNAL CONDUIT
PROJ	PROJECT	W	STEADY WALKING PERSON
PROP	PROPOSED	Y	STEADY CIRCULAR YELLOW
PSB	PLANTABLE SOIL BORROW	YL	STEADY YELLOW LEFT ARROW
PT	POINT OF TANGENCY		
PVC	POINT OF VERTICAL CURVATURE		
PVI	POINT OF VERTICAL INTERSECTION		
PVT	POINT OF VERTICAL TANGENCY		
PVMT	PAVEMENT		
PWW	PAVED WATER WAY		

GENERAL NOTES:

1. THE LOCATIONS EXISTING UNDERGROUND UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR ITS REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATION, SIZE, AND ELEVATION OF EXISTING UTILITIES.
2. THE CONTRACTOR MUST FIELD VERIFY THE PROPOSED INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES BY USING TEST PITS TO CONFIRM EXACT DEPTH, PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT. FAILURE TO PROVIDE OR PERFORM THE ABOVE PRIOR TO PERFORMING ANY WORK SHALL NOT BE GROUNDS FOR EXTRA PAYMENTS TO THE CONTRACTOR.
4. AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT, CURBS, AND EARTHWORK SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES, AND JOINTS.
5. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED.
6. UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE PAVEMENT FINISH GRADE UNLESS OTHERWISE NOTED.
7. INSTALL ALL UTILITIES (INCLUDING CONCRETE PADS) PER UTILITY COMPANY, DPW, AND STATE STANDARDS.
8. ALL FILL, COMPACTION, AND BACKFILL MATERIALS MUST COMPLY WITH APPLICABLE REQUIREMENTS AND SPECIFICATIONS. THE PROFESSIONAL OF RECORD AND TEC ARE NOT RESPONSIBLE FOR DESIGN OF TRENCH BACKFILL OR FOR COMPACTION REQUIREMENTS.
9. DURING THE INSTALLATION OF SANITARY, STORM, AND ALL UTILITIES, THE CONTRACTOR MUST MAINTAIN A CONTEMPORANEOUS AND THOROUGH RECORD OF CONSTRUCTION TO IDENTIFY THE AS-INSTALLED LOCATIONS OF ALL UNDERGROUND INFRASTRUCTURE. THE CONTRACTOR MUST CAREFULLY NOTE ANY INSTALLATIONS THAT DEVIATE, IN ANY RESPECT, FROM THE INFORMATION CONTAINED IN THESE PLANS. THIS RECORD MUST BE KEPT ON A CLEAN COPY OF THE APPROPRIATE PLAN(S), WHICH THE CONTRACTOR MUST PROMPTLY PROVIDE TO THE OWNER IMMEDIATELY UPON THE COMPLETION OF WORK.
10. THE CONTRACTOR MUST ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS INCLUDING SANITARY, WATER AND STORM SYSTEMS, ARE REPAIRED IN ACCORDANCE WITH REFERENCED MUNICIPAL, COUNTY AND OR STATE DOT DETAILS AS APPLICABLE. THE CONTRACTOR MUST COORDINATE INSPECTION AND APPROVAL OF COMPLETED WORK WITH THE AUTHORIZED REPRESENTATIVE.
11. ALL WORK ASSOCIATED WITH LIGHT POLES OR APPURTENANCES SHALL BE COORDINATED BY THE GENERAL CONTRACTOR WITH THE LOCAL UTILITY COMPANIES PRIOR TO THE ORDERING OF ANY MATERIALS. THIS MAY INCLUDE BUT IS NOT LIMITED TO THE REMOVAL, INSTALLATION, RELOCATION OR PROTECTION AS IT MAY BE REQUIRED TO ACCOMMODATE THE PROJECT.
12. CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO ORIGINAL CONDITION (AT NO ADDITIONAL COST TO THE OWNER) BY THE CONTRACTOR.
13. STORM AND SANITARY PIPE LENGTHS INDICATED ARE NOMINAL AND ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS INDICATED ON THE PLANS OTHERWISE.
14. EXCAVATION REQUIRED IN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
15. THE CONTRACTOR SHALL SCHEDULE THEIR WORK TO ALLOW THE FINISHED SUBGRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PUDDLING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO APPLICATION OF THE FINISH SUBGRADE AND/OR SURFACE PAVING.

SURVEY NOTES:

1. THE HORIZONTAL DATUM FOR THIS SURVEY IS THE MASSACHUSETTS COORDINATE SYSTEM, NAD 1983, MAINLAND ZONE. THE VERTICAL DATUM FOR THIS SURVEY IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV D88). SAID DATUMS WERE ESTABLISHED VIA GPS OBSERVATIONS UTILIZING REALIZATION NAD83(2011) AND GEOID 12A.
2. THE LIMIT OF BORDERING VEGETATED WETLANDS SHOWN HEREON WAS DELINEATED BY OTHERS AND LOCATED VIA FIELD SURVEY BY HANCOCK ASSOCIATES.
3. THIS PLAN IS THE RESULT OF AN ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY HANCOCK ASSOCIATES.
4. ABUTTING PROPERTY LINES HAVE BEEN COMPILED FROM RECORD INFORMATION.
5. UNDERGROUND UTILITIES SHOWN HEREON ARE COMPILED FROM FIELD LOCATIONS OF STRUCTURES AND FROM LOCATIONS OF UNDERGROUND UTILITIES PROVIDED BY THE CITY OF WORCESTER. OTHER UNDERGROUND UTILITIES MAY EXIST. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION, SIZE & ELEVATION OF ALL UTILITIES WITHIN THE AREA OF PROPOSED WORK AND TO CONTACT "DIG-SAFE" AT 811 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION, DEMOLITION OR CONSTRUCTION.

PAVEMENT NOTES

PROPOSED FULL DEPTH PAVEMENT OVER MILL

- SURFACE: 1 ½" SUPERPAVE SURFACE COURSE 9.5MM LEVEL 2 OVER
2" SUPERPAVE INTERMEDIATE COURSE 12.5MM LEVEL 2 OVER
- BASE: VARIES (MAX 4") SUPERPAVE BASE COURSE 19MM LEVEL 2 OVER
- MILL: 1-1/2" GRINDING AND MILLING

PROPOSED FULL DEPTH PAVEMENT GREATER THAN 4' WIDE

- SURFACE: 1 ½" SUPERPAVE SURFACE COURSE 9.5MM LEVEL 2 OVER
2" SUPERPAVE INTERMEDIATE COURSE 12.5MM LEVEL 2 OVER
- BASE: 4" SUPERPAVE BASE COURSE 19MM LEVEL 2 OVER
- SUBBASE: 4" DENSE GRADED CRUSHED STONE
8" GRAVEL BORROW, TYPE b

PROPOSED FULL DEPTH PAVEMENT LESS THAN 4' WIDE

- SURFACE: 1 ½" SUPERPAVE SURFACE COURSE 9.5MM LEVEL 2 OVER
2" SUPERPAVE INTERMEDIATE COURSE 12.5MM LEVEL 2 OVER
- BASE: 6" CLASS B CONCRETE (3500 PSI, 1 ½", 520) OVER
- SUBBASE: 8" GRAVEL BORROW, TYPE b

PROPOSED CEMENT CONCRETE SIDEWALK

- SURFACE: 4" CEMENT CONCRETE (AIR ENTRAINED, 4000 PSI, ¾", 610) OVER
- BASE: 8" GRAVEL BORROW, TYPE b

PROPOSED STAMPED CEMENT CONCRETE SIDEWALK

- SURFACE: 4" STAMPED CEMENT CONCRETE (AIR ENTRAINED, 4000 PSI, ¾", 610) OVER
- BASE: 8" GRAVEL BORROW, TYPE b

PROPOSED PEDESTRIAN CURB RAMPS/ CEM CONC SIDEWALK AT DRIVEWAY

- SURFACE: 6" CEMENT CONCRETE (AIR ENTRAINED, 4000 PSI, ¾", 610) OVER
- BASE: 8" GRAVEL BORROW, TYPE b

PROPOSED HMA SIDEWALK/WALK

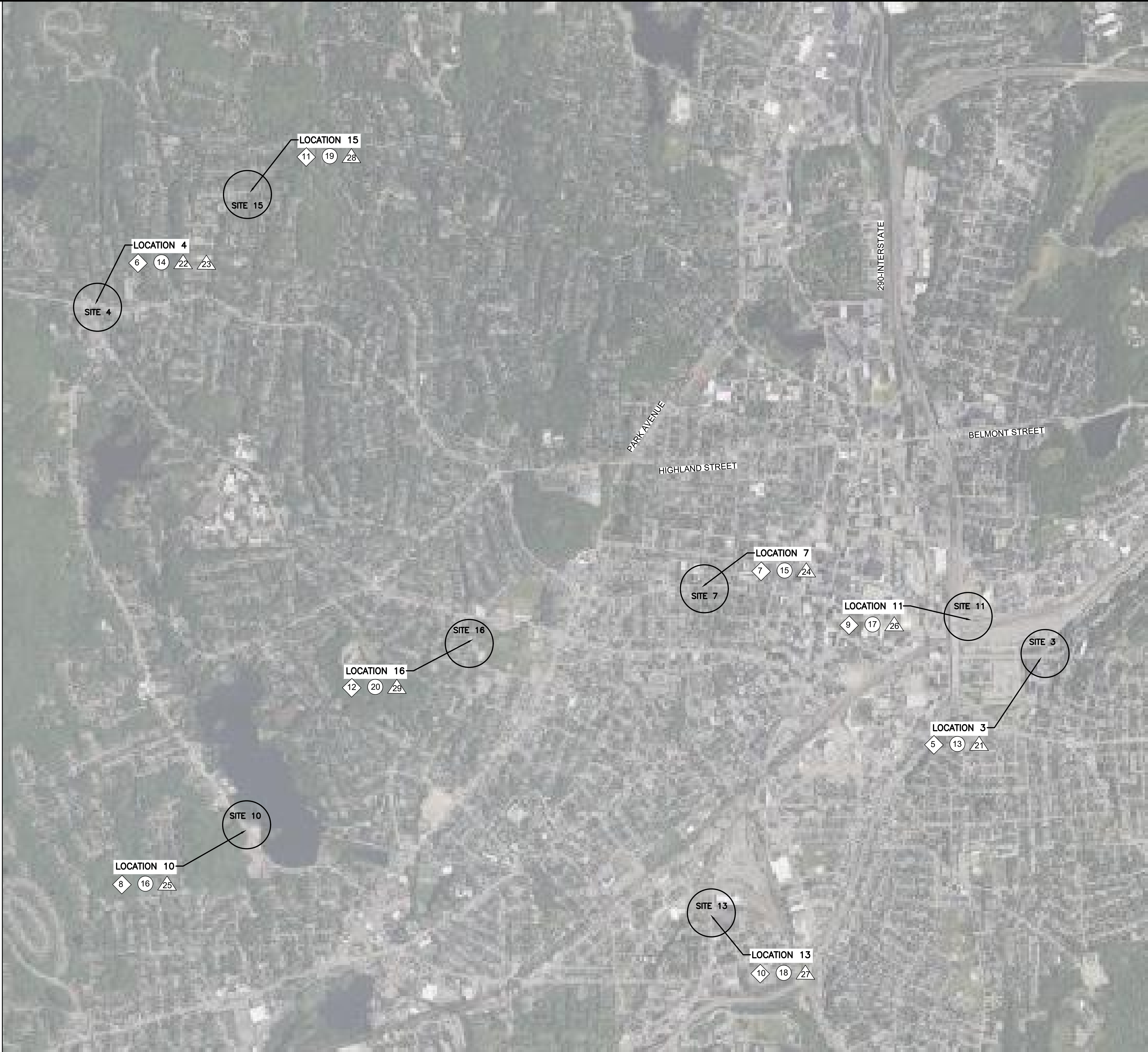
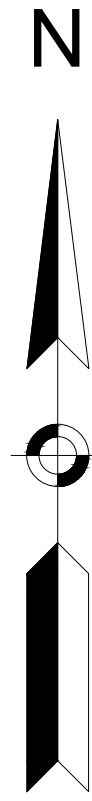
- SURFACE: 1" SUPERPAVE SURFACE COURSE 9.5MM LEVEL 2 OVER
1" SUPERPAVE INTERMEDIATE COURSE 12.5MM LEVEL 2 OVER
- BASE: 8" GRAVEL BORROW, TYPE b

PROPOSED PERMANENT PAVEMENT TRENCH PATCH

- SURFACE: 1 ½" SUPERPAVE TOP COURSE 9.5MM LEVEL 2 OVER
2" SUPERPAVE INTERMEDIATE COURSE 12.5MM LEVEL 2 OVER
VARIABLE DEPTH SUPERPAVE 12.5MM INTERMEDIATE COURSE
(COMPACTED IN 2" (MAX) LIFTS) TO MATCH EXISTING PAVEMENT THICKNESS
- BASE: 8" GRAVEL BORROW, TYPE b

PROPOSED HMA BIKE PATH / PROPOSED HMA DRIVEWAY

- SURFACE: 1½ " SUPERPAVE SURFACE COURSE 9.5 - (SSC - 9.5) OVER
2½" SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5) OVER
- BASE: 8" GRAVEL BORROW, TYPE b



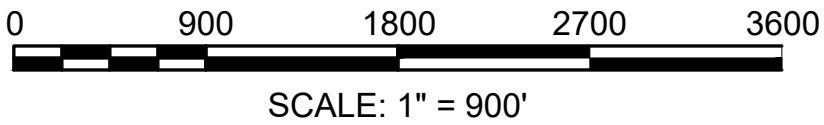
WORCESTER
COMPLETE STREETS IMPROVEMENTS
KEY PLAN
SHEET 4 OF 40

LEGEND

-  CONSTRUCTION PLANS
-  CURB TIES & GRADING PLANS
-  TRAFFIC SIGN & PAVEMENT MARKING PLANS

COMPLETE STREETS IMPROVEMENTS

LOCATION #	LOCATION NAME
3	FRANKLIN STREET / NORFOLK STREET / SUFFOLK STREET
4	PLEASANT STREET / TIVERTON PARKWAY / MILL STREET
7	PLEASANT STREET / FRUIT STREET / NEWBURY STREET
10	200 MILL STREET
11	SHREWSBURY STREET / MOUNT CARMEL WAY
13	539 SOUTHBRIDGE STREET
15	90 CAMELOT DRIVE
16	22 MANN STREET





FRANKLIN STREET

NORFOLK STREET

SUFFOLK
STREET

DAVID CLARK COMPANY
INCORPORATED
BK. 12321 PG. 215
PL. BK. 256 PG. 106
354 FRANKLIN STREET
PARCEL ID: 04-014-01-01

D.C.C., INC.
BK. 5694 PG. 1
PL. BK. 244 PG. 124
PL. BK. 230 PG. 43
PL. BK. 231 PG. 19
PL. BK. 306 PG. 66
358 FRANKLIN STREET
PARCEL ID: 04-012-0H+H1

D.C.C., INC.
BK. 5694 PG. 1
PL. BK. 244 PG. 124
PL. BK. 230 PG. 43
PL. BK. 231 PG. 19
PL. BK. 306 PG. 66
360 FRANKLIN STREET
PARCEL ID: 04-012-0000A

DAVID CLARK COMPANY
INCORPORATED
BK. 53408 PG. 223
PL. BK. 909 PG. 64
00 SUFFOLK STREET
PARCEL ID: 04-012-0026B

ROBERT M. LICOSKI, JR.
BK. 24286 PG. 170
375 FRANKLIN STREET
PARCEL ID: 04-002-26+27

FF=494.39'
BLDG
#375

JOHN E. JOZJORIAN
CHRISTINE L. JOZJORIAN
BK. 50549 PG. 339
PL. BK. 469 PG. 40
363 FRANKLIN STREET
PARCEL ID: 04-002-00028

D.C.C., INC.
BK. 5694 PG. 1
PL. BK. 244 PG. 124
PL. BK. 230 PG. 43
PL. BK. 231 PG. 19
PL. BK. 306 PG. 66
9 NORFOLK STREET
PARCEL ID: 04-002-0021B

RICHARD J. MAGDIS
BK. 44710 PG. 38
PL. BK. 306 PG. 66
11 NORFOLK STREET
PARCEL ID: 04-002-0021A

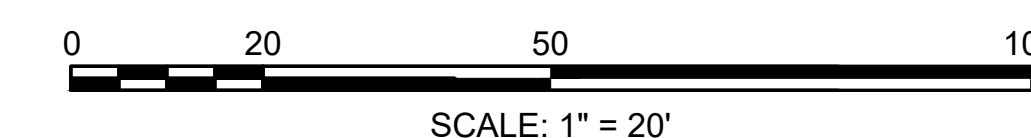
ICC PROPERTIES, LLC
BK. 50823 PG. 36
PL. BK. 306 PG. 66
13 NORFOLK STREET
PARCEL ID: 04-002-00021

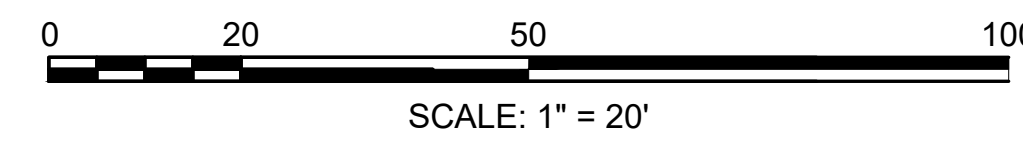
MARTIN ROMAN
VANESSA ROMAN
BK. 55985 PG. 319
8 NORFOLK STREET
PARCEL ID: 04-012-00015

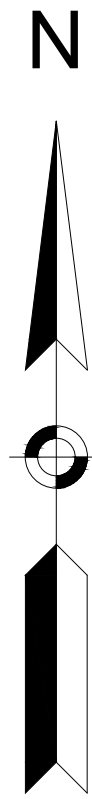
BRATE I, LLC
BK. 70866 PG. 319
1 SUFFOLK STREET
PARCEL ID: 04-012-00012

CONTE GROUP, LLC
BK. 69757 PG. 177
11 SUFFOLK STREET
PARCEL ID: 04-012-13+14

VILSON CASTELO-BRANCO
ROMULO M. SOUSA
BK. 68740 PG. 22
6 NORFOLK STREET
PARCEL ID: 04-012-00055







HAWLEY STREET

FRUIT STREET

NEWBURY STREET

CONGRESS STREET

PLEASANT STREET

286 BOSTON LLC
BK. 63535 PG. 252
286 PLEASANT STREET
PARCEL ID: 06-006-006+7

HILLTOP GROUP
HOLDINGS, LLC
BK. 60049 PG. 73
270 PLEASANT
STREET
PARCEL ID:
06-006-00038

OCTAVIO RODRIGUEZ
LEANDRO ORTEGA
BK. 52209 PG. 318
260 PLEASANT STREET
PARCEL ID: 06-006-00008

WORCESTER HOUSING AUTHORITY
BK. 4949 PG. 315
PL. BK. 327 PG. 14
275 PLEASANT STREET
PARCEL ID: 06-005-00037

MOHAMMAD BSHARAT
HANAN NAJI BSHARAT
BK. 61691 PG. 70
PL. BK. 840 BK. 118-119
257 PLEASANT STREET
PARCEL ID: 03-027-25711

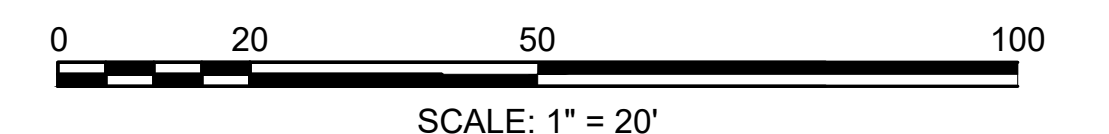
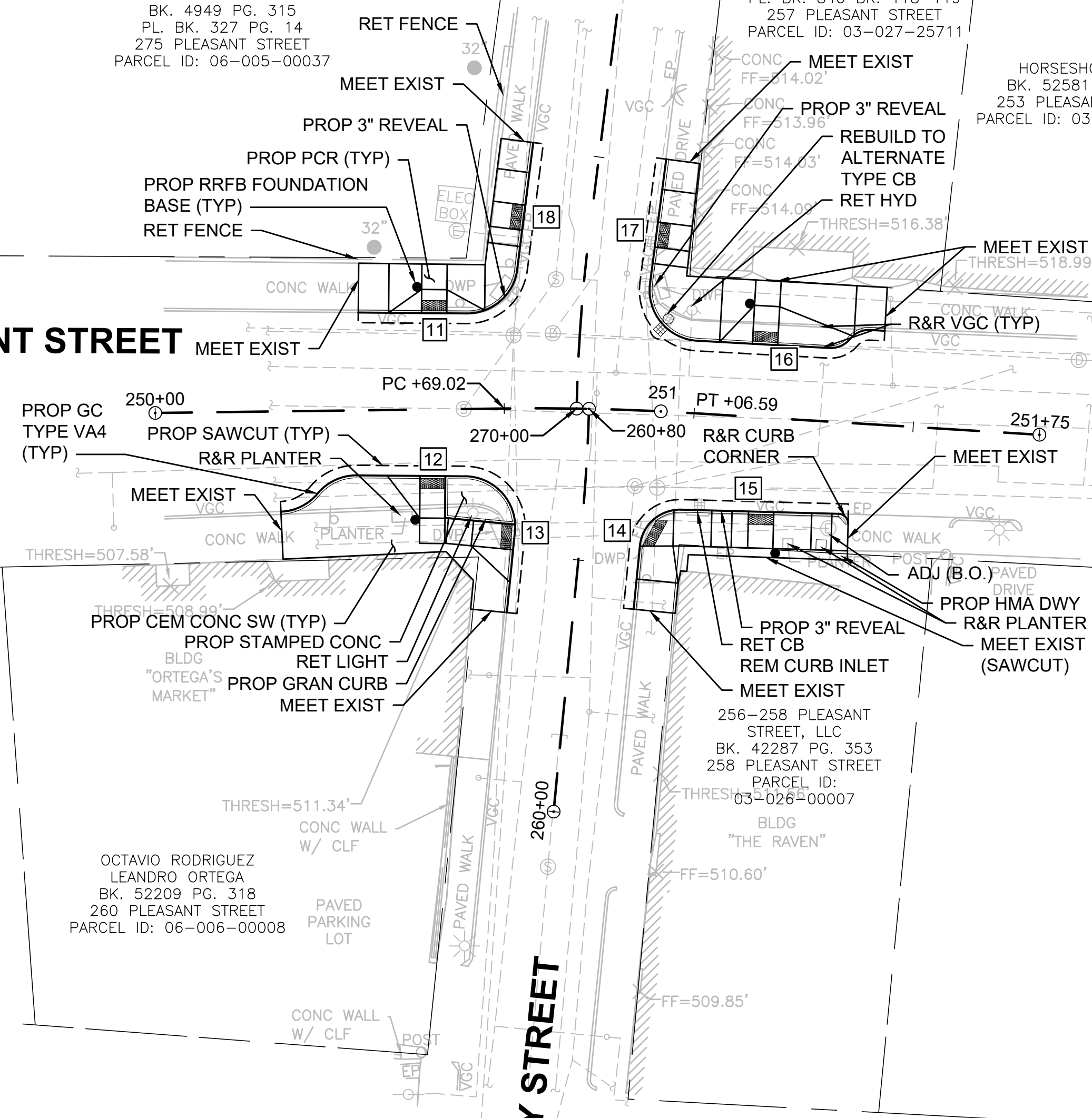
HORSESHOE, LLC
BK. 52581 PG. 181
253 PLEASANT STREET
PARCEL ID: 03-027-00029

EMIL ANGJELI
VALENTINA ANGJELI
BK. 35960 PG. 171
PL. BK. 277 PG. 58
245 PLEASANT STREET
PARCEL ID:
03-027-0028A

PLEASANT WALL, LLC
BK. 70552 PG. 128
244 PLEASANT STREET
PARCEL ID: 03-026-08+15

256-258 PLEASANT
STREET, LLC
BK. 42287 PG. 353
258 PLEASANT STREET
PARCEL ID:
03-026-00007

BLDG
"THE RAVEN"

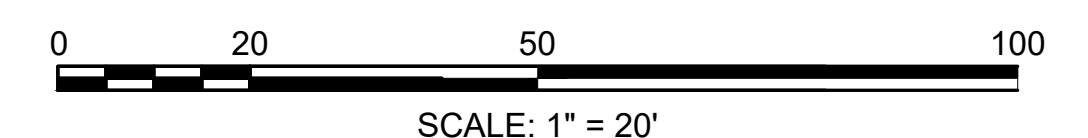
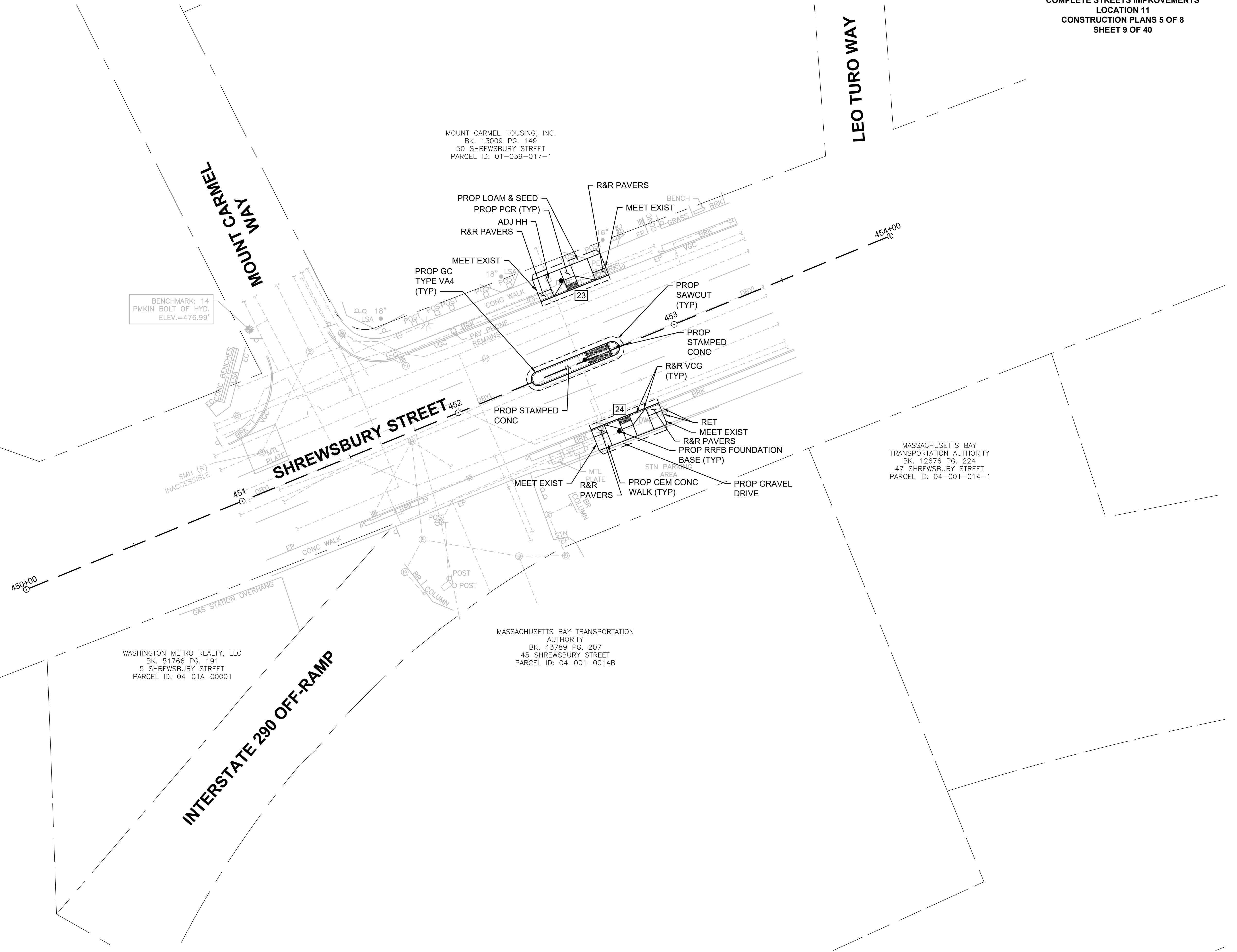
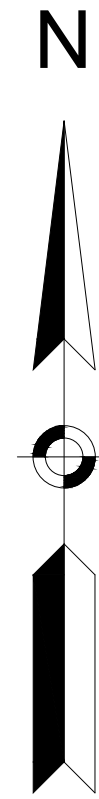


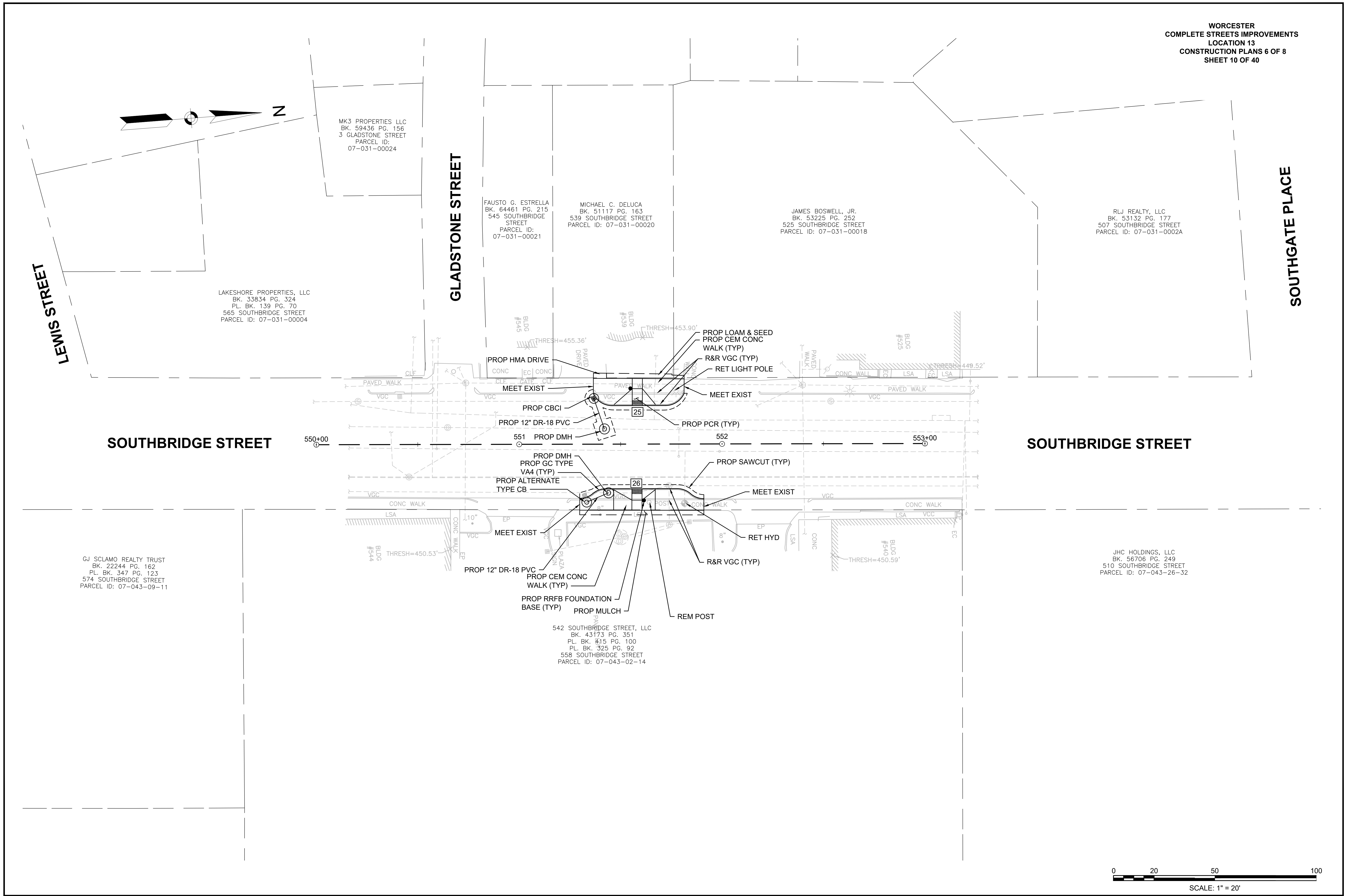


MIRANDA XHELADINI
BK. 54361 PG. 154
215 MILL STREET
PARCEL ID: 42-031-00121

WORCESTER MILL LLC
BK. 37440 PG. 70
195 MILL STREET
PARCEL ID: 42-032-01+3A









WORCESTER
COMPLETE STREETS IMPROVEMENTS
LOCATION 15
CONSTRUCTION PLANS 7 OF 8
SHEET 11 OF 40

MORELAND HILL CONDOMINIUM
MASTER DEED
BK. 8557 PG. 63
PL. BK. 530 PG. 48
9 MODRED COURT
PARCEL ID: 25-054-001-2

CITY OF WORCESTER
BK. 8246 PG. 199
0 CAMELOT DRIVE
PARCEL ID: 25-041-0009A

IVELESSE COLON
BK. 39243 PG. 351
101 MORELAND STREET
PARCEL ID: 25-041-00006

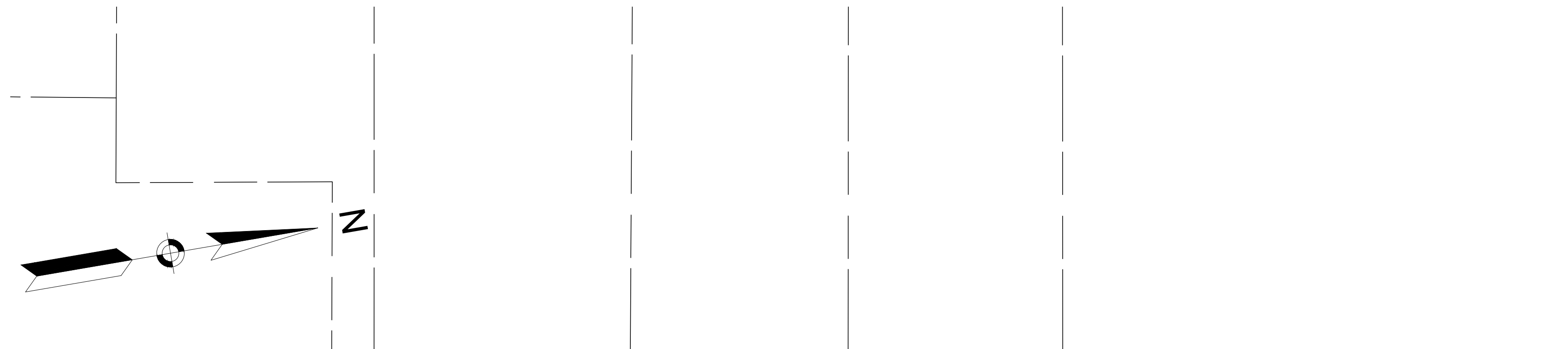
FRANCIS K. GRANGER
MARY E. GRANGER
BK. 7613 PG. 102
95 MORELAND STREET
PARCEL ID: 25-041-00005

KUZMIN FAMILY TRUST
BK. 52823 PG. 125
PL. BK. 530 PG. 48
PL. BK. 550 PG. 27
41 CAMELOT DRIVE
PARCEL ID: 25-054-42-59

CAMELOT DRIVE

MORELAND STREET

0 20 50 100
SCALE: 1" = 20'

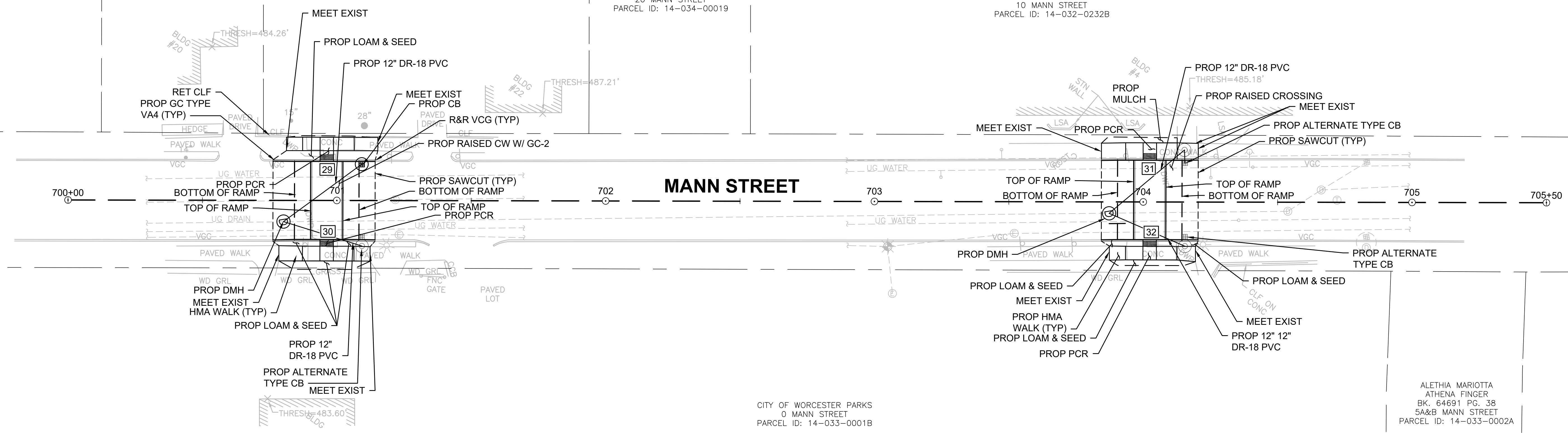


NESTOR A. TORO, JR.
ISABEL ORTIZ
BK. 43430 PG. 359
26 MANN STREET
PARCEL ID: 14-034-00017

THANH DUONGD
TRINH BUI
BK. 14289 PG. 230
PL. BK. 8 PG. 25
22 MANN STREET
PARCEL ID: 14-034-18+22

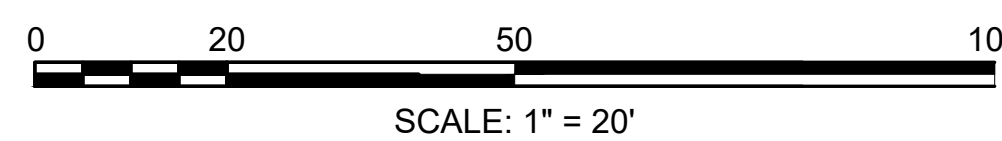
BRADFORD N. RHEAULT
BK. 42761 PG. 149
PL. BK. 8 PG. 25
20 MANN STREET
PARCEL ID: 14-034-00019

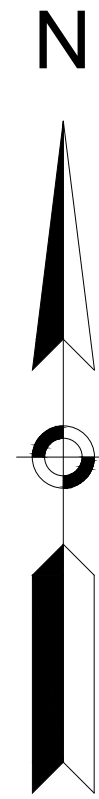
THE BRIDGE OF CENTRAL
MASSACHUSETTS CORPORATION
BK. 41574 PG. 386
PL. BK. 859 PG. 65
10 MANN STREET
PARCEL ID: 14-032-0232B



CITY OF WORCESTER PARKS
0 MANN STREET
PARCEL ID: 14-033-0001B

ALETHIA MARIOTTA
ATHENA FINGER
BK. 64691 PG. 38
5A&B MANN STREET
PARCEL ID: 14-033-0002A





LOC_03_ALIGN CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	50+00.00	2920029.094	578187.120		S89°16'22"E 340.00'	53+40.00	2920024.780	578527.091

LOC_03_ALIGN_FRANKLIN CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C5	60+00.00	2920026.703	578375.529	R=100.00' Δ=40°09'08" L=70.08' T=36.55'		60+70.08	2920085.904	578410.294
C8	60+70.08	2920085.904	578410.294	R=2095.62' Δ=2°11'07" L=79.92' T=39.97'		61+50.00	2920138.099	578470.814

Curve Table			
Curve #	Delta	Radius	Length
C9	17°56'54"	115.00	36.02
C10	57°41'35"	60.00	60.42
C11	76°51'52"	30.00	40.25
C12	121°43'56"	8.00	17.00
C13	114°24'52"	9.00	17.97
C14	37°07'02"	305.00	197.58
C33	55°38'13"	50.00	48.55

NEW YORK CENTRAL LINES LLC
BK. 21992 PG. 370
271 FRANKLIN STREET
PARCEL ID: 04-001-00014

FRANKLIN STREET

DAVID CLARK COMPANY
INCORPORATED
BK. 12321 PG. 215
PL. BK. 662 PG. 88
PL. BK. 256 PG. 106
354 FRANKLIN STREET
PARCEL ID: 04-014-01-01

D.C.C., INC.
BK. 5694 PG. 1
PL. BK. 244 PG. 124
PL. BK. 230 PG. 43
PL. BK. 231 PG. 19
PL. BK. 306 PG. 66
358 FRANKLIN STREET
PARCEL ID: 04-012-0H+H1

D.C.C., INC.
BK. 5694 PG. 1
PL. BK. 244 PG. 124
PL. BK. 230 PG. 43
PL. BK. 231 PG. 19
PL. BK. 306 PG. 66
360 FRANKLIN STREET
PARCEL ID: 04-012-0000A

LOC_03_ALIGN_SUFFOLK CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L3	70+00.00	2919885.298	578434.573		N23°19'07"W 86.70'	70+86.70	2919964.920	578400.252
C1	70+86.70	2919964.920	578400.252	R=150.00' Δ=24°10'38" L=63.30' T=32.13'		71+50.00	2920026.545	578388.017

ROBERT M. LICOSKI, JR.
BK. 24286 PG. 170
375 FRANKLIN STREET
PARCEL ID: 04-002-26+27

JOHN E. JORJORIAN
CHRISTINE L. JOJORIAN
BK. 50549 PG. 339
PL. BK. 469 PG. 40
363 FRANKLIN STREET
PARCEL ID: 04-002-00028

BLDG
#375

D.C.C., INC.
BK. 5694 PG. 1
PL. BK. 244 PG. 124
PL. BK. 230 PG. 43
PL. BK. 231 PG. 19
PL. BK. 306 PG. 66
9 NORFOLK STREET
PARCEL ID: 04-002-0021B

RICHARD J. MAGDIS
BK. 44710 PG. 38
PL. BK. 306 PG. 66
11 NORFOLK STREET
PARCEL ID: 04-002-0021A

ICC PROPERTIES, LLC
BK. 50823 PG. 36
PL. BK. 306 PG. 66
13 NORFOLK STREET
PARCEL ID: 04-002-00021

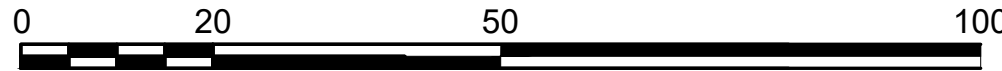
NORFOLK STREET

SUFFOLK STREET

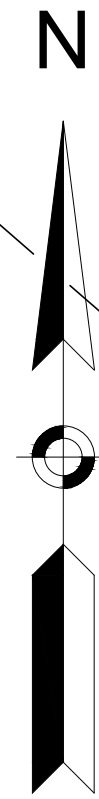
BRATE I, LLC
BK. 70866 PG. 319
1 SUFFOLK STREET
PARCEL ID: 04-012-00012

CONTE GROUP, LLC
BK. 69757 PG. 177
11 SUFFOLK STREET
PARCEL ID: 04-012-13+14

DAVID CLARK COMPANY
INCORPORATED
BK. 53408 PG. 223
PL. BK. 909 PG. 64
00 SUFFOLK STREET
PARCEL ID: 04-012-0026B



SCALE: 1" = 20'



MOWER STREET

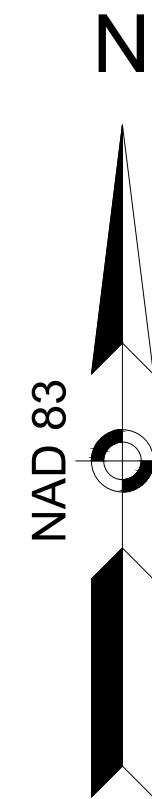
CHANDLER STREET

LOC_04_ALIGN_TIVERTON CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L7	110+00.00	2926607.211	560664.499		N4°59'14"W 85.00'	110+85.00	2926691.889	560657.109

TIVERTON PARKWAY

POMONA ROAD

PLEASANT STREET



WORCESTER
COMPLETE STREETS IMPROVEMENTS
LOCATION 4
GRADING PLANS 2 OF 8
SHEET 14 OF 40

1097 Pleasant St Ste E, Worcester, MA 01602

MARSHALL COMMERCIAL
PROPERTIES LLC
BK. 62535 PG. 323
1124 PLEASANT STREET
PARCEL ID: 30-001-00001

1122 LAKE HOUSE, LLC
BK. 63155 PG. 180
1122 PLEASANT STREET
PARCEL ID: 30-001-1A+2A

THRESH-
MTL=593.56'
THRESH-
MTL=593.60'
DMH
RIM=593.41'
INV. IN (a)=583.71'
INV. IN (b)=583.71'
INV. OUT (c)=583.71'

SGS REALTY MANAGEMENT, LLC
BK. 43253 PG. 53
1114 PLEASANT STREET
PARCEL ID: 30-001-00008

ALLYN H. JONES
BK. 11233 PG. 112
PL. BK. 33 PG. 43
1108 PLEASANT STREET
PARCEL ID: 30-001-00009

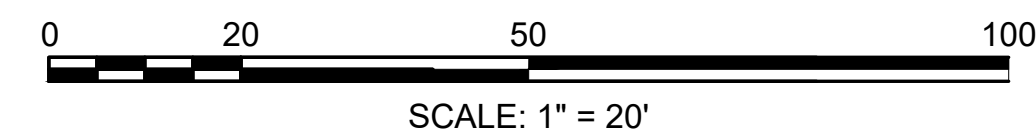
RICHARD J. WALSH
BK. 8602 PG. 69
1106 PLEASANT STREET
PARCEL ID: 30-001-00010

LEEMILT'S PETROLEUM, INC.
BK. 30031 PG. 235
1107 PLEASANT STREET
PARCEL ID: 25-013-00012

ARBER ISAAK
BK. 50115 PG. 136
1105 PLEASANT STREET
PARCEL ID: 25-013-00013

LOC_04_ALIGN CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L6	100+00.00	2926633.562	560521.093		S79°35'16"E 513.70'	105+13.70	2926540.723	561026.332

Curve Table			
Curve #	Delta	Radius	Length
C15	67°05'33"	10.00	11.71
C16	66°34'05"	10.00	11.62
C17	105°24'12"	10.00	18.40
C18	46°23'24"	10.00	8.10
C19	46°22'48"	10.00	8.09
C20	85°28'11"	15.00	22.38
C21	54°08'24"	10.00	9.45

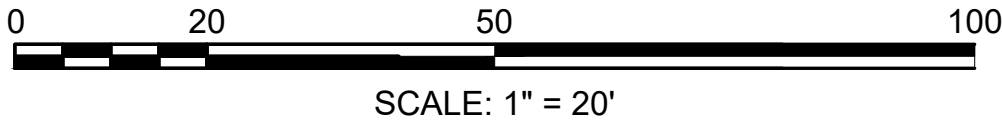


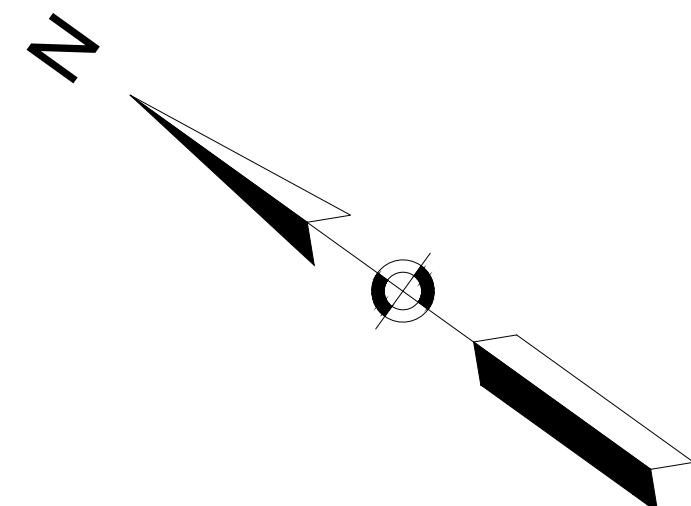
LOC_07_ALIGN CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L8	250+00.00	2921401.263	571888.837		N89°16'05"E 69.02'	250+69.02	2921402.145	571957.847
C22	250+69.02	2921402.145	571957.847	R=500.00' Δ=4°18'21" L=37.57' T=18.80'		251+06.59	2921401.213	571995.401
L9	251+06.59	2921401.213	571995.401		S86°25'35"E 68.41'	251+75.00	2921396.949	572063.681

Curve Table			
Curve #	Delta	Radius	Length
C25	47°47'33"	10.00	8.34
C26	50°38'28"	10.00	8.84
C27	83°16'40"	10.00	14.53
C28	86°57'31"	10.00	15.18
C29	94°19'08"	10.00	16.46
C30	85°53'16"	8.00	11.99
C31	53°07'48"	5.00	4.64
C32	53°07'48"	5.00	4.64

LOC_07_ALIGN_FRUIT CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C24	270+00.00	2921402.123	571972.171	R=335.00' Δ=6°02'13" L=35.30' T=17.66'		270+35.30	2921437.309	571974.748
L13	270+35.30	2921437.309	571974.748		N7°12'31"E 54.71'	270+90.00	2921491.584	571981.613

LOC_07_ALIGN_NEWBURY CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L10	260+00.00	2921322.400	571967.617		N5°37'30"E 56.23'	260+56.23	2921378.362	571973.129
C23	260+56.23	2921378.362	571973.129	R=335.00' Δ=4°03'54" L=23.77' T=11.89'		260+80.00	2921402.078	571974.618

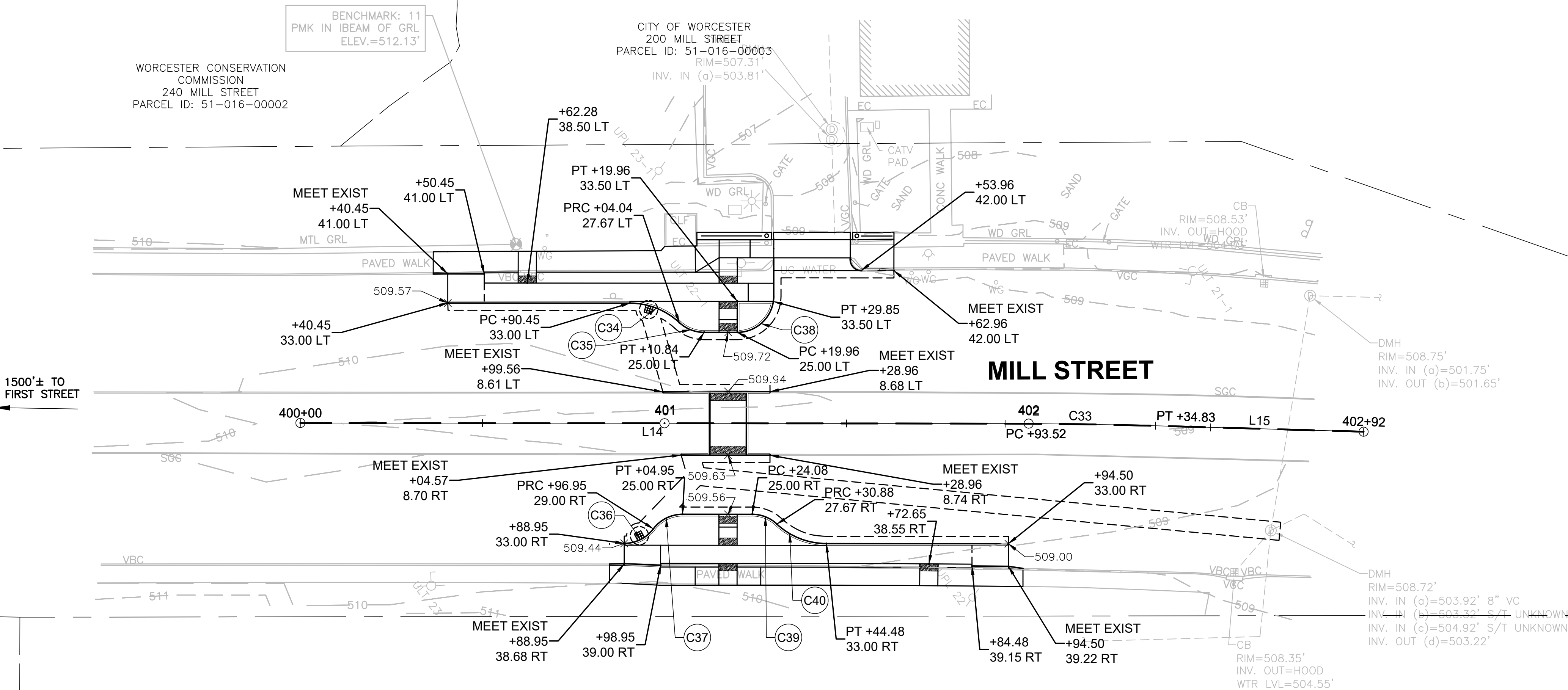




Curve Table			
Curve #	Delta	Radius	Length
C34	42°50'00"	20.00	14.95
C35	42°50'00"	10.00	7.48
C36	53°07'48"	10.00	9.27
C37	53°07'48"	10.00	9.27
C38	81°22'23"	10.00	14.20
C39	42°50'00"	10.00	7.48
C40	42°50'00"	20.00	14.95

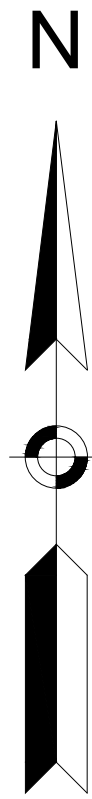
LOC_10_ALIGN CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L14	400+00.00	2916925.366	563320.072		S35°39'43"E 193.52'	401+93.52	2916768.134	563432.897
C33	401+93.52	2916768.134	563432.897	R=1500.00' Δ=1°34'40" L=41.31' T=20.65'		402+34.83	2916734.247	563456.513
L15	402+34.83	2916734.247	563456.513		S34°05'03"E 57.17'	402+92.00	2916686.896	563488.553

COES RESERVOIR



MIRANDA XHELADINI
BK. 54361 PG. 154
215 MILL STREET
PARCEL ID: 42-031-00121

WORCESTER MILL LLC
BK. 37440 PG. 70
195 MILL STREET
PARCEL ID: 42-032-01+3A



WORCESTER
COMPLETE STREETS IMPROVEMENTS
LOCATION 11
GRADING PLANS 5 OF 8
SHEET 17 OF 40

MOUNT CARMEL
WAY

LEO TURO WAY

MOUNT CARMEL HOUSING, INC.
BK. 13009 PG. 149
50 SHREWSBURY STREET
PARCEL ID: 01-039-017-1

BENCHMARK: 14
PMKIN BOLT OF HYD.
ELEV.=476.99'

SHREWSBURY STREET

INTERSTATE 290 OFF-RAMP

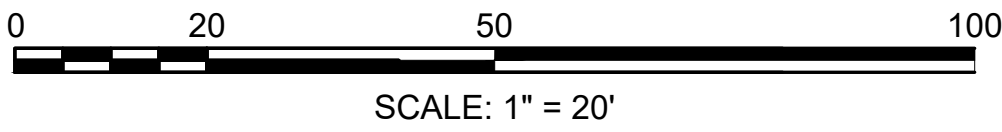
WASHINGTON METRO REALTY, LLC
BK. 51766 PG. 191
5 SHREWSBURY STREET
PARCEL ID: 04-01A-00001

MASSACHUSETTS BAY TRANSPORTATION
AUTHORITY
BK. 43789 PG. 207
45 SHREWSBURY STREET
PARCEL ID: 04-001-0014B

MASSACHUSETTS BAY
TRANSPORTATION AUTHORITY
BK. 12676 PG. 224
47 SHREWSBURY STREET
PARCEL ID: 04-001-014-1

Curve Table			
Curve #	Delta	Radius	Length
C41	180°00'00"	3.00	9.42
C42	180°00'00"	3.00	9.42

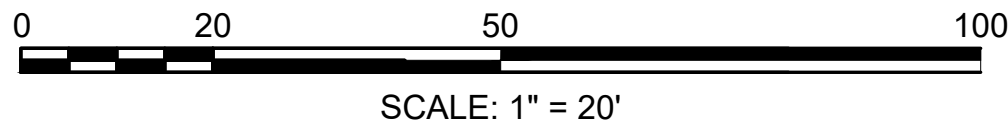
LOC_11_ALIGN CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L16	450+00.00	2920734.809	576751.123		N67°44'41"E 400.00'	454+00.00	2920886.302	577121.325



SOUTHGATE PLACE

GLADSTONE STREET

SOUTHBRIDGE STREET



Curve Table			
Curve #	Delta	Radius	Length
C43	40°05'49"	10.00	7.00
C44	40°28'49"	10.00	7.07
C45	66°25'19"	10.00	11.59
C46	66°25'19"	10.00	11.59
C47	41°25'52"	10.00	7.23
C48	41°07'44"	10.00	7.18

LOC_13_ALIGN CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L17	550+00.00	2915103.515	572152.772		N4°22'15"E 300.00'	553+00.00	2915402.643	572175.636

JAMES BOSWELL
BK. 58217 PG. 36
PL. BK. 382 PG. 85
0 SOUTHGATE PLACE
PARCEL ID: 07-031-00002

RLJ REALTY, LLC
BK. 53132 PG. 177
507 SOUTHBRIDGE STREET
PARCEL ID: 07-031-0002A

JHC HOLDINGS, LLC
BK. 56706 PG. 249
510 SOUTHBRIDGE STREET
PARCEL ID: 07-043-26-32

JAMES BOSWELL, JR.
BK. 53225 PG. 252
525 SOUTHBRIDGE STREET
PARCEL ID: 07-031-00018

MICHAEL C. DELUCA
BK. 51117 PG. 163
539 SOUTHBRIDGE STREET
PARCEL ID: 07-031-00020

FAUSTO G. ESTRELLA
BK. 64461 PG. 215
545 SOUTHBRIDGE STREET
PARCEL ID: 07-031-00021

LAKE SHORE PROPERTIES, LLC
BK. 33834 PG. 324
PL. BK. 139 PG. 70
565 SOUTHBRIDGE STREET
PARCEL ID: 07-031-00004

MK3 PROPERTIES LLC
BK. 59436 PG. 156
3 GLADSTONE STREET
PARCEL ID: 07-031-00024

HOA LEGACY TRUST
BK. 56611 PG. 207
4 LEWIS STREET
PARCEL ID: 07-031-00005

GJ SCLAMO REALTY TRUST
BK. 22244 PG. 162
PL. BK. 347 PG. 123
574 SOUTHBRIDGE STREET
PARCEL ID: 07-043-09-11

542 SOUTHBRIDGE STREET, LLC
BK. 43173 PG. 351
PL. BK. 415 PG. 100
PL. BK. 325 PG. 92
558 SOUTHBRIDGE STREET
PARCEL ID: 07-043-02-14

N

MORELAND HILL CONDOMINIUM
MASTER DEED
BK. 8557 PG. 63
PL. BK. 530 PG. 48
9 MODRED COURT
PARCEL ID: 25-054-001-2

CITY OF WORCESTER
BK. 8246 PG. 199
0 CAMELOT DRIVE
PARCEL ID: 25-041-0009A

IVELESSE COLON
BK. 39243 PG. 351
101 MORELAND STREET
PARCEL ID: 25-041-00006

CAMELOT DRIVE

MORELAND STREET

KUZMIN FAMILY TRUST
BK. 52823 PG. 125
PL. BK. 530 PG. 48
PL. BK. 550 PG. 27
41 CAMELOT DRIVE
PARCEL ID: 25-054-42-59

LOC_15_WORKING CONSTRUCTION BASELINE DATA

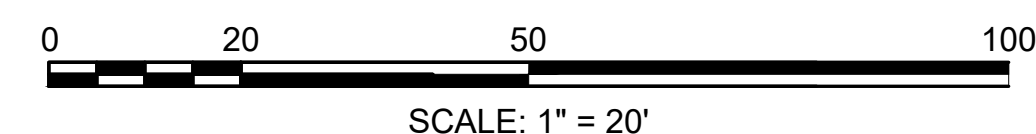
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L18	650+00.00	2928726.643	563221.409		N85°26'12"E 300.00'	653+00.00	2928750.512	563520.458

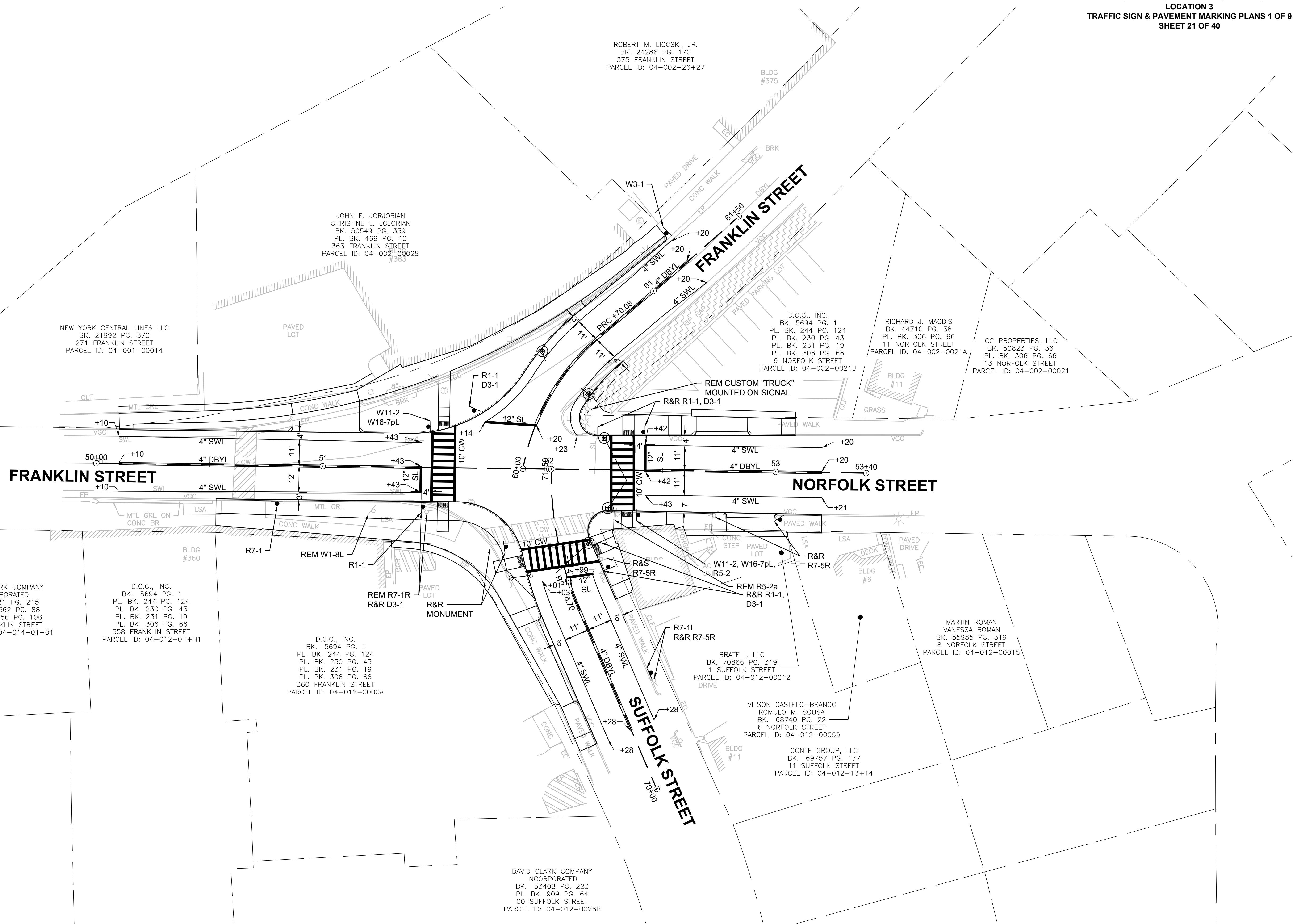


SCALE: 1" = 20'

T1659 HD/GRADING 10-17) DWG Plotted on 31-Jul-2026 6:54 AM

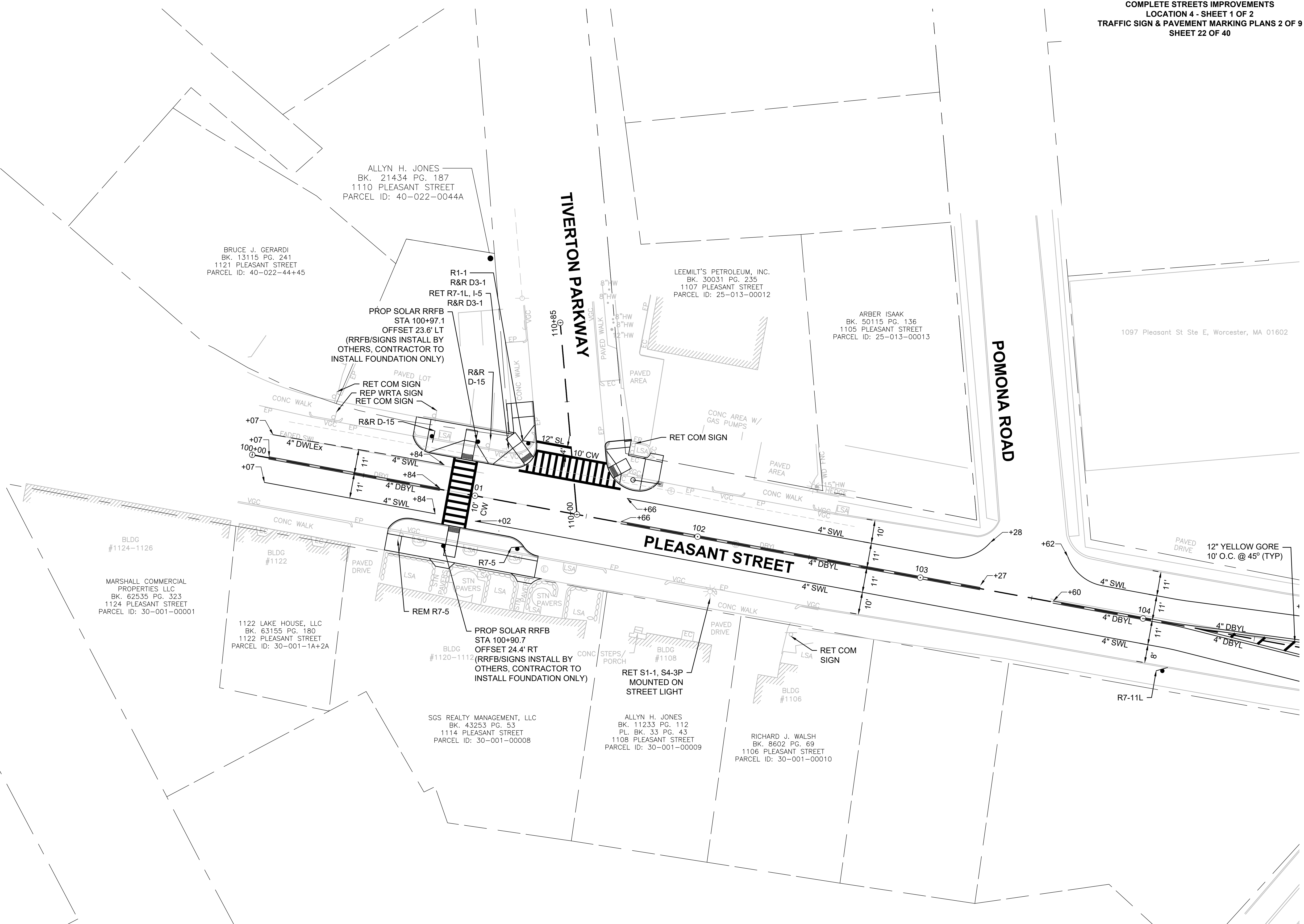
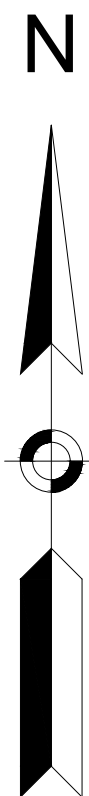
LOC_16_ALIGN CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L19	700+00.00	2920043.383	567546.593		N9°49'33"E 550.00'	705+50.00	2920585.315	567640.4



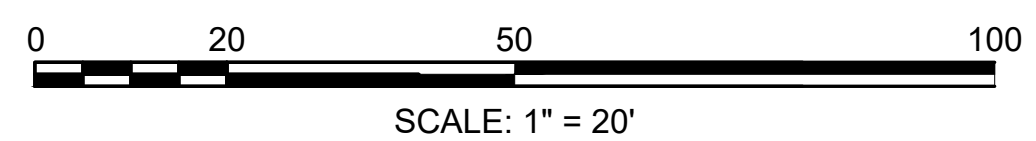


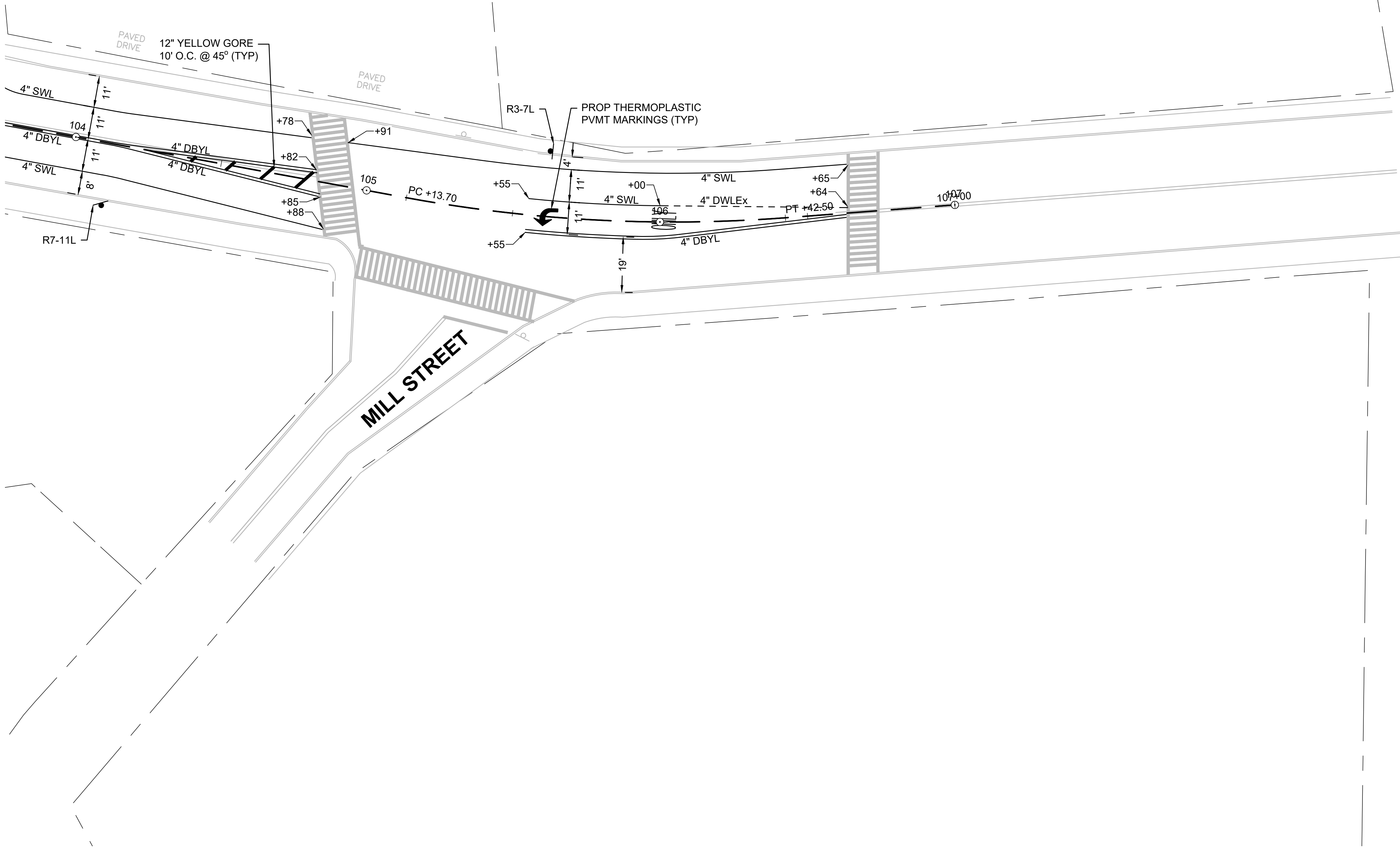
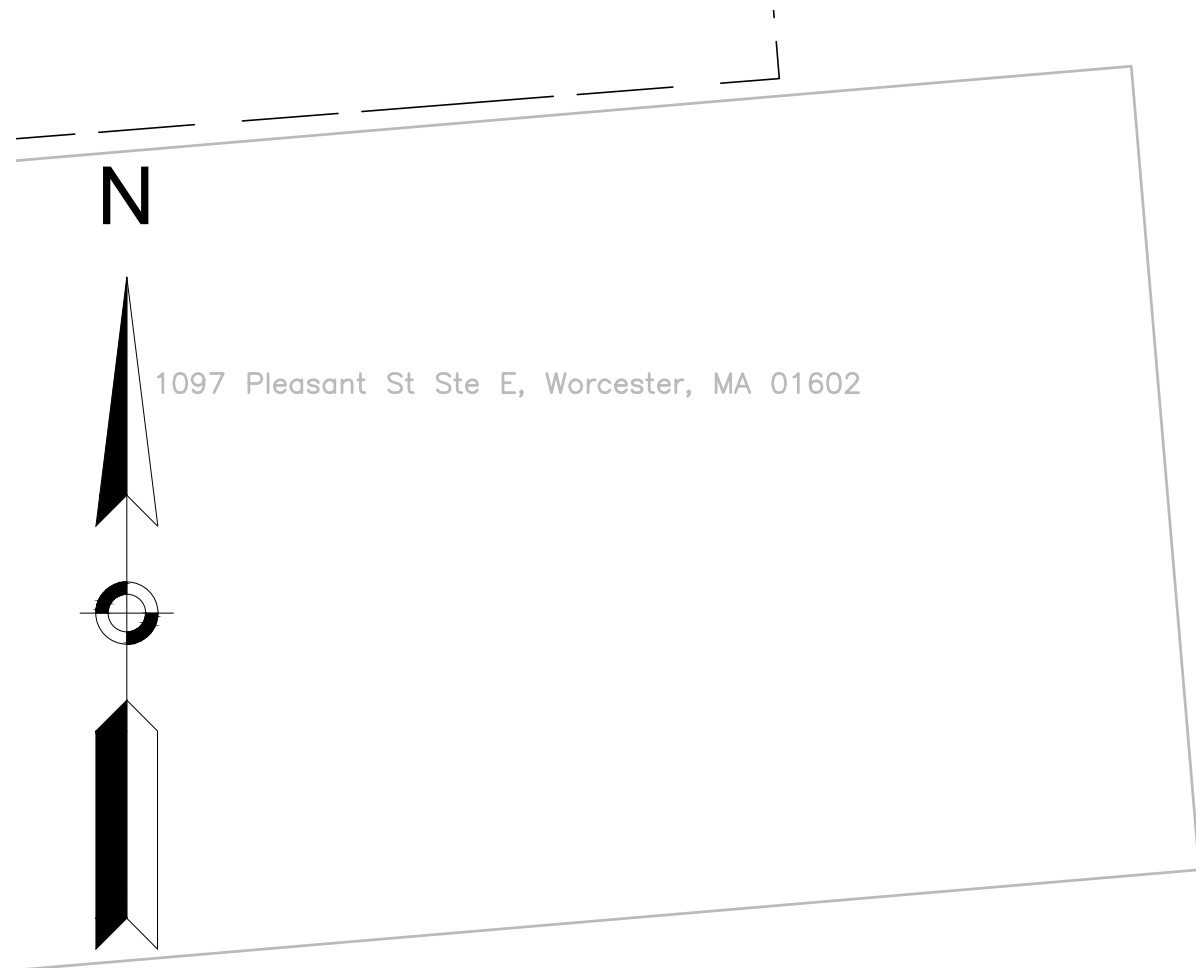
0 20 50 100

SCALE: 1" = 20'

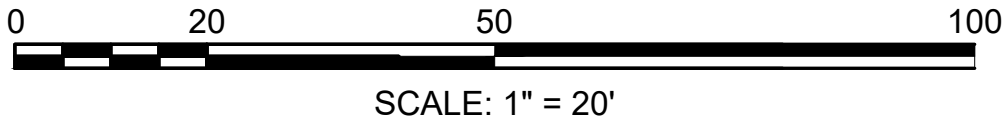


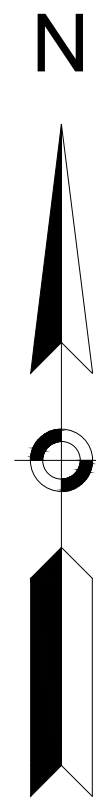
GENERAL NOTES
1. REFER TO STANDARD DETAILS AND WORCESTER DPW
STANDARD SPECIFICATIONS.





GENERAL NOTES
1. REFER TO STANDARD DETAILS AND WORCESTER DPW
STANDARD SPECIFICATIONS.





WORCESTER HOUSING AUTHORITY
BK. 4949 PG. 315
PL. BK. 327 PG. 14
275 PLEASANT STREET
PARCEL ID: 06-005-00037

PROP SOLAR RRFB
STA 250+52.1
OFFSET 24.3' LT
(RRFB/SIGNS INSTALL BY
OTHERS, CONTRACTOR TO
INSTALL FOUNDATION ONLY)

"PERMIT
PARKING ONLY"
R&R D3-1
REM "PERMIT PARKING ONLY"
R6-1L, R6-1R
R&R D3-1

REM R7-1
"PASSENGER ZONE"

MOHAMMAD BSHARAT
HANAN NAJI BSHARAT
BK. 61691 PG. 70
PL. BK. 840 BK. 118-119
257 PLEASANT STREET
PARCEL ID: 03-027-25711

PROP SOLAR RRFB
STA 251+16.1
OFFSET 22.3' LT
(RRFB/SIGNS INSTALL BY
OTHERS, CONTRACTOR TO
INSTALL FOUNDATION ONLY)

HORSESHOE, LLC
BK. 52581 PG. 181
253 PLEASANT STREET
PARCEL ID: 03-027-00029

EMIL ANGJELI
VALENTINA ANGJELI
BK. 35960 PG. 171
PL. BK. 277 PG. 58
245 PLEASANT STREET
PARCEL ID:
03-027-0028A

PLEASANT STREET

PLEASANT STREET

286 BOSTON LLC
BK. 63535 PG. 252
286 PLEASANT STREET
PARCEL ID: 06-006-006+7

HILLTOP GROUP
HOLDINGS, LLC
BK. 60049 PG. 73
270 PLEASANT
STREET
PARCEL ID:
06-006-00038

PROP SOLAR RRFB
STA 250+51.2
OFFSET 21.8' RT
(RRFB/SIGNS INSTALL BY
OTHERS, CONTRACTOR TO
INSTALL FOUNDATION ONLY)

OCTAVIO RODRIGUEZ
LEANDRO ORTEGA
BK. 52209 PG. 318
260 PLEASANT STREET
PARCEL ID: 06-006-00008

PAVED
PARKING
LOT

NEWBURY STREET

R&S R1-1
R&R D3-1
R1-1
R&R D3-1
R7-1L

PROP SOLAR RRFB
STA 251+24.5
OFFSET 27.1' RT
(RRFB/SIGNS INSTALL BY
OTHERS, CONTRACTOR TO
INSTALL FOUNDATION ONLY)

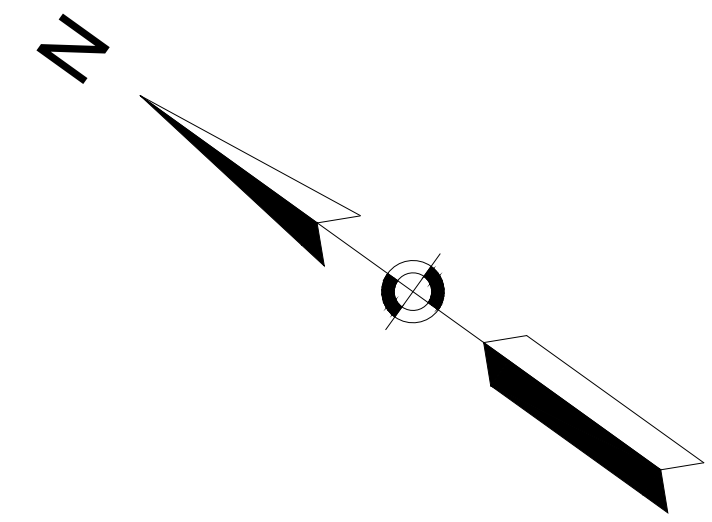
PLEASANT WALL, LLC
BK. 70552 PG. 128
244 PLEASANT STREET
PARCEL ID: 03-026-08+15

BLDG
"THE RAVEN"
256-258 PLEASANT
STREET, LLC
BK. 42287 PG. 353
258 PLEASANT STREET
PARCEL ID:
03-026-00007

CONGRESS STREET

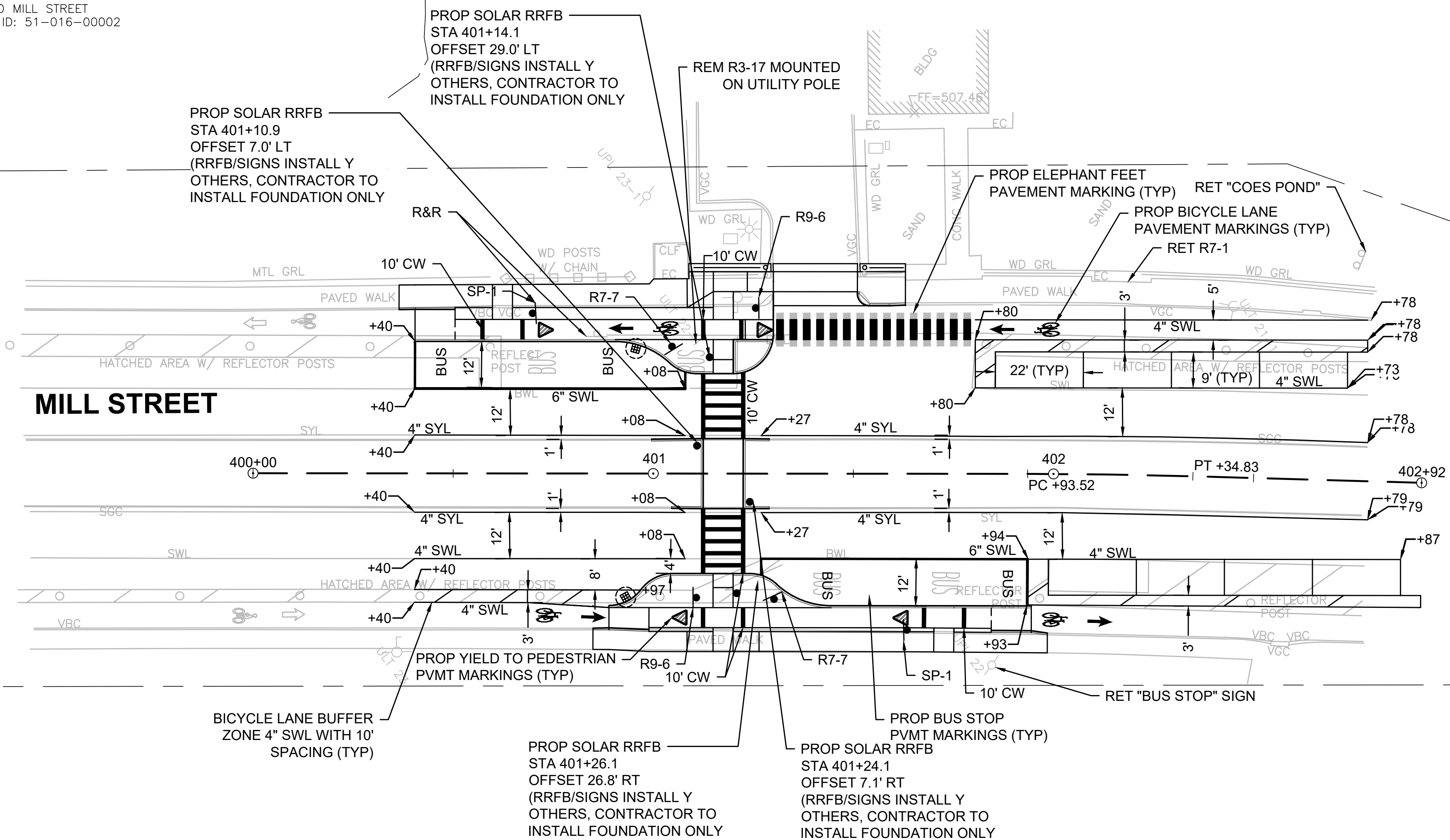
GENERAL NOTES
1. REFER TO STANDARD DETAILS AND WORCESTER DPW
STANDARD SPECIFICATIONS.

0 20 50 100
SCALE: 1" = 20'



WORCESTER CONSERVATION
COMMISSION
240 MILL STREET
PARCEL ID: 51-016-00002

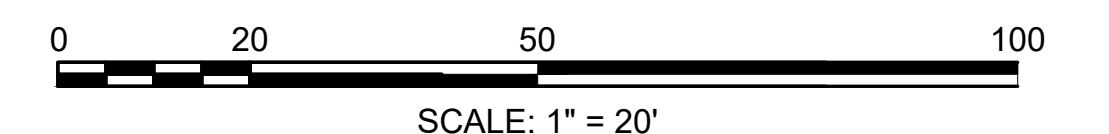
CITY OF WORCESTER
200 MILL STREET
PARCEL ID: 51-016-00003



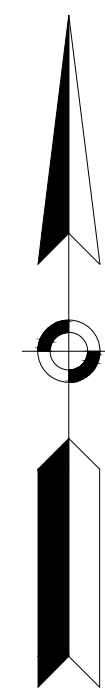
MIRANDA XHEHADINI
BK. 54361 PG. 154
215 MILL STREET
PARCEL ID: 42-031-00121

WORCESTER MILL LLC
BK. 37440 PG. 70
195 MILL STREET
PARCEL ID: 42-032-01+3A

GENERAL NOTES
1. REFER TO STANDARD DETAILS AND WORCESTER DPW
STANDARD SPECIFICATIONS.



N



MOUNT CARMEL HOUSING, INC.
BK. 13009 PG. 149
50 SHREWSBURY STREET
PARCEL ID: 01-039-017-1

PROP SOLAR RRFB
STA 452+58.9
OFFSET 0.5' LT
(RRFB/SIGNS INSTALL BY
OTHERS, CONTRACTOR TO
INSTALL FOUNDATION ONLY)

PROP SOLAR RRFB
STA 452+62.2
OFFSET 35.8' LT
(RRFB/SIGNS INSTALL BY
OTHERS, CONTRACTOR TO
INSTALL FOUNDATION ONLY)

PROP SOLAR RRFB
STA 452+60.9
OFFSET 33.5 RT
(RRFB/SIGNS INSTALL BY
OTHERS, CONTRACTOR TO
INSTALL FOUNDATION ONLY)

MASSACHUSETTS BAY
TRANSPORTATION AUTHORITY
BK. 12676 PG. 224
47 SHREWSBURY STREET
PARCEL ID: 04-001-014-1

MASSACHUSETTS BAY TRANSPORTATION
AUTHORITY
BK. 43789 PG. 207
45 SHREWSBURY STREET
PARCEL ID: 04-001-0014B

WASHINGTON METRO REALTY, LLC
BK. 51766 PG. 191
5 SHREWSBURY STREET
PARCEL ID: 04-01A-00001

SHREWSBURY STREET

MOUNT CARMEL WAY

RET D3-1,
R12-5, R7-1

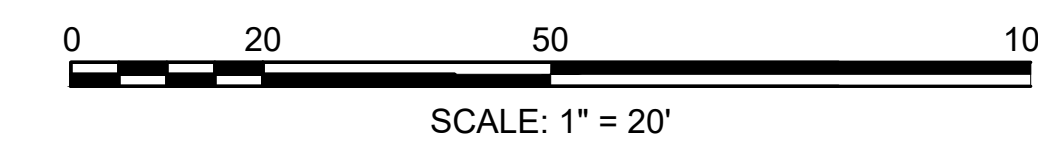
RET W2-6
W13-1P (20 MPH)

YIELD LINE
PAVEMENT
MARKING (TYP)

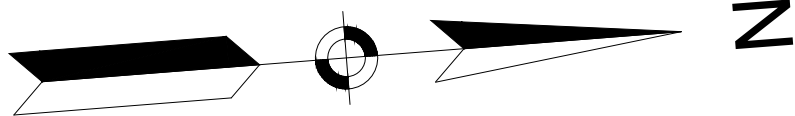
RET "BUS STOP"

12" YELLOW GORE
10' O.C. @ 45° (TYP)

GENERAL NOTES
1. REFER TO STANDARD DETAILS AND WORCESTER DPW
STANDARD SPECIFICATIONS.



WORCESTER
COMPLETE STREETS IMPROVEMENTS
LOCATION 13
TRAFFIC SIGN & PAVEMENT MARKING PLANS 7 OF 9
SHEET 27 OF 40



FOOK Y. LEONG
BK. 51704 PG. 351
6 LEWIS STREET
PARCEL ID: 07-031-00006

THOMAS W. DUMONT, JR.
BK. 58784 PG. 320
5 GLADSTONE STREET
PARCEL ID: 07-031-00023

MK3 PROPERTIES LLC
BK. 59436 PG. 156
3 GLADSTONE STREET
PARCEL ID: 07-031-00024

JAMES W. BOSWELL
BK. 39852 PG. 314
6 GLADSTONE STREET
PARCEL ID: 07-031-00016

JAMES BOSWELL
BK. 58217 PG. 36
PL. BK. 382 PG. 85
0 SOUTHGATE PLACE
PARCEL ID: 07-031-00002

HOA LEGACY TRUST
BK. 56611 PG. 207
4 LEWIS STREET
PARCEL ID: 07-031-00005

LAKE SHORE PROPERTIES, LLC
BK. 33834 PG. 324
PL. BK. 139 PG. 70
565 SOUTHBRIDGE STREET
PARCEL ID: 07-031-00004

FAUSTO G. ESTRELLA
BK. 64461 PG. 215
545 SOUTHBRIDGE STREET
PARCEL ID: 07-031-00021

MICHAEL C. DELUCA
BK. 51117 PG. 163
539 SOUTHBRIDGE STREET
PARCEL ID: 07-031-00020

JAMES BOSWELL, JR.
BK. 53225 PG. 252
525 SOUTHBRIDGE STREET
PARCEL ID: 07-031-00018

RLJ REALTY, LLC
BK. 53132 PG. 177
507 SOUTHBRIDGE STREET
PARCEL ID: 07-031-0002A

GJ SCLAMO REALTY TRUST
BK. 22244 PG. 162
PL. BK. 347 PG. 123
574 SOUTHBRIDGE STREET
PARCEL ID: 07-043-09-11

542 SOUTHBRIDGE STREET, LLC
BK. 43173 PG. 351
PL. BK. 415 PG. 100
PL. BK. 325 PG. 92
558 SOUTHBRIDGE STREET
PARCEL ID: 07-043-02-14

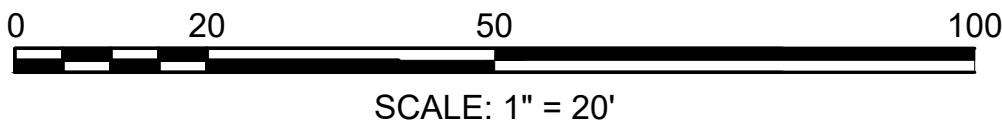
JHC HOLDINGS, LLC
BK. 56706 PG. 249
510 SOUTHBRIDGE STREET
PARCEL ID: 07-043-26-32

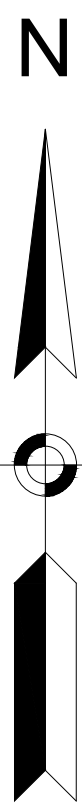
PROP SOLAR RRFB
STA 251+54.7
OFFSET 27.1' LT
(RRFB/SIGNS INSTALL BY
OTHERS, CONTRACTOR TO
INSTALL FOUNDATION ONLY)
PROP YIELD TO PEDESTRIAN
PVMT MARKINGS (TYP)

PROP SOLAR RRFB
STA 251+61.5
OFFSET 28.9' RT
(RRFB/SIGNS INSTALL BY
OTHERS, CONTRACTOR TO
INSTALL FOUNDATION ONLY)

SOUTHBRIDGE STREET

GENERAL NOTES
1. REFER TO STANDARD DETAILS AND WORCESTER DPW
STANDARD SPECIFICATIONS.





MORELAND HILL CONDOMINIUM
MASTER DEED
BK. 8557 PG. 63
PL. BK. 530 PG. 48
9 MODRED COURT
PARCEL ID: 25-054-001-2

BLDG
#87

FARBER FIELD
PARKING LOT

CITY OF WORCESTER
BK. 8246 PG. 199
0 CAMELOT DRIVE
PARCEL ID: 25-041-0009A

IVELESSE COLON
BK. 39243 PG. 351
101 MORELAND STREET
PARCEL ID: 25-041-00006

FRANCIS K. GRANGER
MARY E. GRANGER
BK. 7613 PG. 102
95 MORELAND STREET
PARCEL ID: 25-041-00005

CITY OF WORCESTER
BK. 8246 PG. 199
90 CAMELOT DRIVE
PARCEL ID: 25-041-00009

KUZMIN FAMILY TRUST
BK. 52823 PG. 125
PL. BK. 530 PG. 48
PL. BK. 550 PG. 27
41 CAMELOT DRIVE
PARCEL ID: 25-054-42-59

CAMELOT
DRIVE

W17-1a
W13-1P (15 MPH)

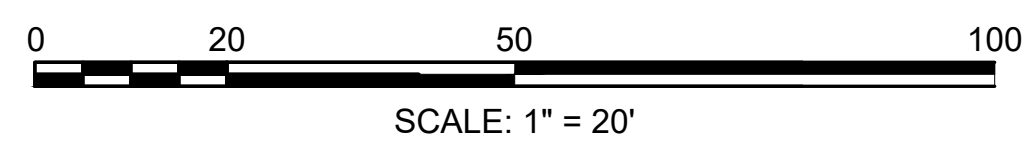
ASTRO TURF
W11-2
W17-1a

10' RAISED
CROSSWALK

ADVANCE WARNING
PAVEMENT MARKINGS
FOR SPEED TABLE (TYP)
R&S MA-W13-4

W17-1a
W13-1P (15 MPH)

GENERAL NOTES
1. REFER TO STANDARD DETAILS AND WORCESTER DPW
STANDARD SPECIFICATIONS.



T1659 HD/TSPM 10.17\ DWG Plotted on 31-Jul-2026 6:56 AM

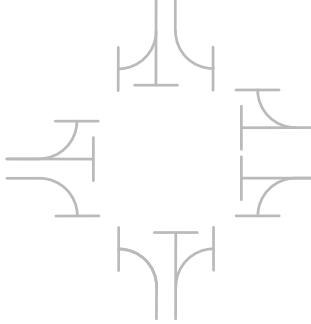
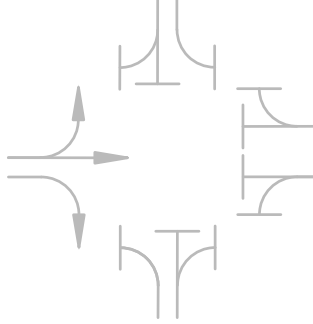
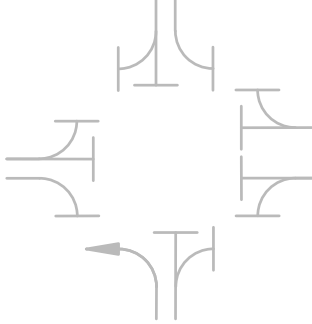
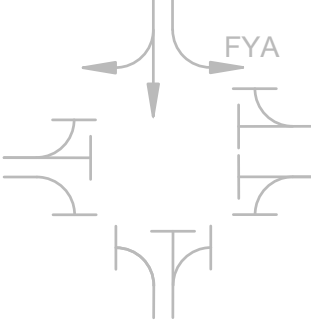
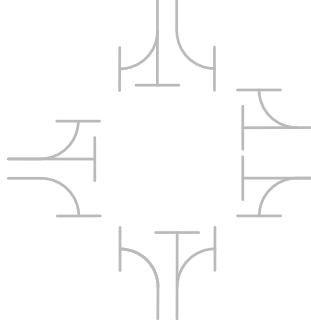
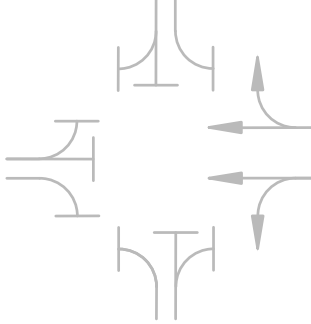
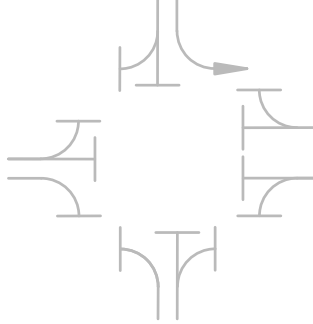
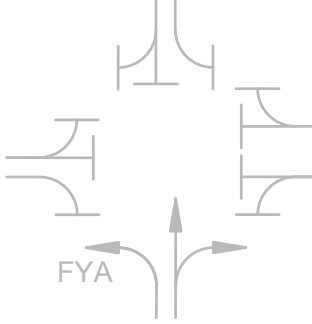
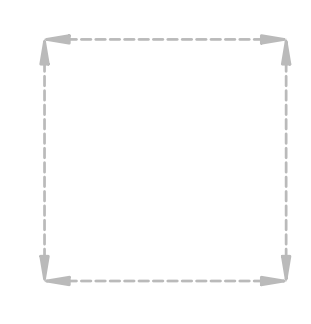
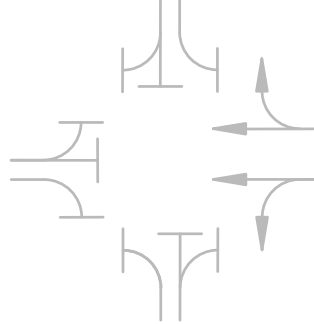
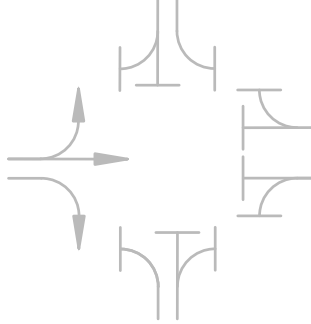
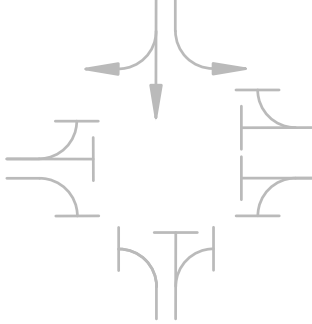
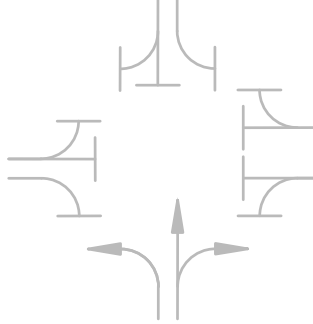


TRAFFIC SIGN SUMMARY													
IDENTIFICATION NUMBER	SIZE OF SIGN (in)		LEGEND	TEXT DIMENSIONS (in)			NUMBER OF SIGNS REQUIRED	COLOR			SIZE AND NUMBER OF POSTS REQUIRED	UNIT AREA (SF)	TOTAL AREA (SF)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR		BACK- GROUND	LEGEND	BORDER			
R1-1	30	30					4	RED	WHITE	WHITE	P5 (4)	6.25	25.00
R3-7L	30	30					1	WHITE	BLACK	BLACK	P5 (1)	6.25	6.25
R4-7	24	30					2	WHITE	BLACK	BLACK	P5 (2)	5.00	10.00
R5-2	24	24					1	WHITE/RED	WHITE	WHITE	P5 (1)	4.00	4.00
R6-1L	36	12					2	BLACK	WHITE	BLACK	MOUNTED WITH R6-1R (2)	3.00	6.00
R6-1R	36	12					2	BLACK	WHITE	BLACK	MOUNTED WITH R6-1L (2) P5 (2)	3.00	6.00
R7-1	12	18					7	WHITE	RED	BLACK	P5 (7)	1.50	10.50
R7-1L	12	18					2	WHITE	RED	BLACK	P5 (2)	1.50	3.00
R7-1R	12	18					1	WHITE	RED	BLACK	P5 (1)	1.50	1.50
R7-5	12	18					1	WHITE	GREEN	BLACK	P5 (1)	1.50	1.50
R7-7	12	18					2	WHITE	RED	BLACK	P5 (2)	1.50	3.00
R7-11L	12	18					1	WHITE	RED	BLACK	P5 (2)	1.50	1.50
R9-6	12	18					2	WHITE	BLACK	BLACK	P5 ()	1.50	3.00
R10-25	9	12					4	WHITE	BLACK	BLACK	MOUNTED WITH RRFB (4)	PAID FOR UNDER ITEM 824.22	

TRAFFIC SIGN SUMMARY													
IDENTIFICATION NUMBER	SIZE OF SIGN (in)		LEGEND	TEXT DIMENSIONS (in)			NUMBER OF SIGNS REQUIRED	COLOR			SIZE AND NUMBER OF POSTS REQUIRED	UNIT AREA (SF)	TOTAL AREA (SF)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR		BACK- GROUND	LEGEND	BORDER			
SP-1	12	18		1.75 C	1	6-7 4.5 X 7.875	2	WHITE	BLACK	BLACK	P5 (2)	1.50	3.00
W3-1	36	36		SEE MUTCD 11TH EDITION			1	FLUORESCENT YELLOW-GREEN	RED	BLACK	P5 (1)	9.00	9.00
W11-2	30	30					8	FLUORESCENT YELLOW-GREEN	BLACK	BLACK	MOUNTED WITH RRFB (8)	PAID FOR UNDER ITEM 824.22	
W11-2	30	30					8	FLUORESCENT YELLOW-GREEN	BLACK	BLACK	P5 (8)	6.25	50.00
W13-1P	18	18					6	FLUORESCENT YELLOW-GREEN	BLACK	BLACK	MOUNTED WITH W17-1a (6)	2.25	13.50
W16-7pL	24	12					8	FLUORESCENT YELLOW-GREEN	BLACK	BLACK	MOUNTED WITH RRFB (8)	PAID FOR UNDER ITEM 824.22	
W16-7pL	24	12					2	FLUORESCENT YELLOW-GREEN	BLACK	BLACK	MOUNTED WITH W11-2 (6)	2.00	4.00
W16-7pR	24	12					8	FLUORESCENT YELLOW-GREEN	BLACK	BLACK	MOUNTED WITH RRFB (8)	PAID FOR UNDER ITEM 824.22	
W17-1a	30	30					12	FLUORESCENT YELLOW-GREEN	BLACK	BLACK	P5 (12)	6.25	75.00

NOTES:

- SEE THE 11TH EDITION (2023) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS FOR TEXT AND LEGEND DIMENSIONS.
- SEE MASSDOT STANDARD SIGN BOOK FOR TEXT AND LEGEND DIMENSIONS.
- THE MINIMUM MOUNTING HEIGHT OF POST-MOUNTED SIGNS, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE TOP OF CURB OR SIDEWALK, OR THE ELEVATION OF THE NEAR EDGE OF TRAVEL WAY, SHALL BE 7 FEET UNLESS OTHERWISE SPECIFIED.
- A MINIMUM OF 4'-0" PATH OF TRAVEL CLEARANCE, EXCLUDING CURB, IS REQUIRED WHEN PLACING SIGNS.

SEQUENCE AND TIMING CHART FOR FULLY-ACTUATED TRAFFIC SIGNAL CONTROL																												PRE-EMPTION PHASING AND PRIORITY																		
PLEASANT STREET (ROUTE 122) AT CHANDLER STREET AND MOWER STREET (WORCESTER, MASSACHUSETTS)			Ø1			Ø2			Ø3			Ø4			Ø5			Ø6			Ø7			Ø8			Ø9			FLASHING OPERATION	PREEMPT ØA - D1				PREEMPT ØB - D2				PREEMPT ØC - D3				PREEMPT ØD - D4			
																																														
APPROACH	DIRECTION	HOUSING	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	FLASHING OPERATION	28	29	30	31	32	33	34	35	36	37	38	39				
PLEASANT STREET	EB - LT	EXISTING	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FY	R	R	R	R	R	R	R	R	G	Y	R					
PLEASANT STREET	EB - R	EXISTING	- R -	- R -	- R -	- G -	- Y -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	FY	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- G -	- Y -	- R -				
PLEASANT STREET	WB - LT	EXISTING	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	FY	R	R	R	R	R	R	G	Y	R	R	R	R				
PLEASANT STREET	WB - TR	EXISTING	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	FY	R	R	R	R	R	R	G	Y	R	R	R	R				
CHANDLER STREET	NB - L	EXISTING	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- G -	- Y -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	FR	- G -	- Y -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -			
CHANDLER STREET	NB - TR	EXISTING	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	FR	G	Y	R	R	R	R	R	R	R	R	R	R	R			
MOWER STREET	SB - L	EXISTING	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	FR	- R -	- R -	- R -	- G -	- Y -	- R -	- R -	- R -	- R -	- R -	- R -	- R -	- R -			
MOWER STREET	SB - TR	EXISTING	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FR	R	R	R	G	Y	R	R	R	R	R	R	R	R			
PEDESTRIAN	ALL	EXISTING	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW				
MINIMUM INTERVAL						6			6			6						6			6			6						EMERGENCY ONLY	*				*				*				*			
VEHICLE EXTENSION						3			3			3						3			3			3																						
MAXIMUM 1						35			11			11						35			11			11																						
MAXIMUM 2						23			13			11						23			11			13																						
YELLOW CLEARANCE							3.0			3.0			3.0						3.0			3.0			3.0																					
RED CLEARANCE								2.0			2.0			2.0						2.0			2.0			2.0																				
WALK																											7.0																			
PEDESTRIAN CLEARANCE																												10.0	4.0																	
RECALL			OFF			MIN			OFF			OFF			OFF			MIN			OFF			OFF			OFF																			
DETECTOR			NON-LOCK			NON-LOCK			NON-LOCK			NON-LOCK			NON-LOCK			NON-LOCK			NON-LOCK			NON-LOCK			LOCK																			

NOTES:

- ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
- ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
- TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
- CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.
- THE FIRST FIVE PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE A LIGHTS.
- THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
- DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
- MINIMUM LANE WIDTH IS TO BE 11 FEET (3.3m) UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
- ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.

LEGEND:

- REFLECTORIZED PLASTIC DRUM OR 36" CONE

P/F POLICE/FLAGGER DETAIL

TYPE III BARRICADE

CHANGEABLE MESSAGE SIGN

ARROW BOARD

WORK ZONE

DIRECTION OF TRAFFIC

IMPACT ATTENUATOR

MEDIAN BARRIER

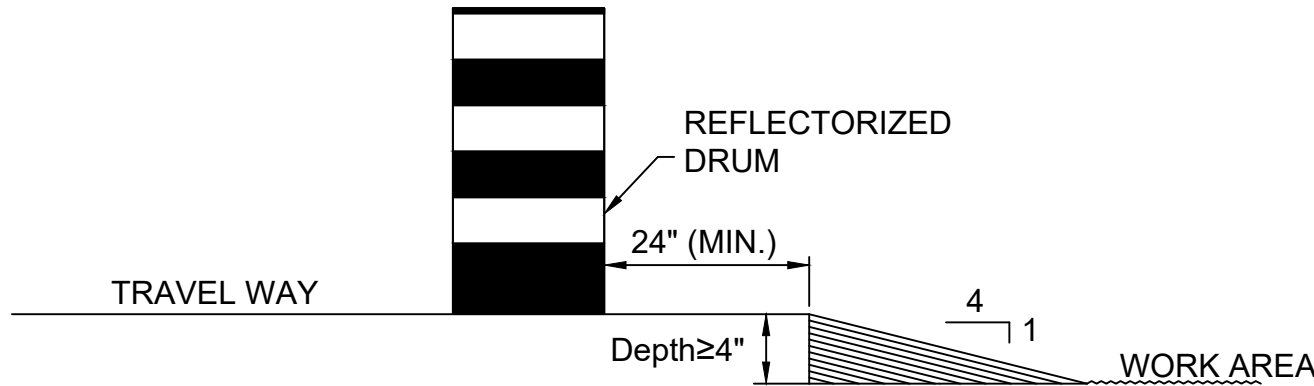
MEDIAN BARRIER WITH WARNING LIGHTS

WORK VEHICLE

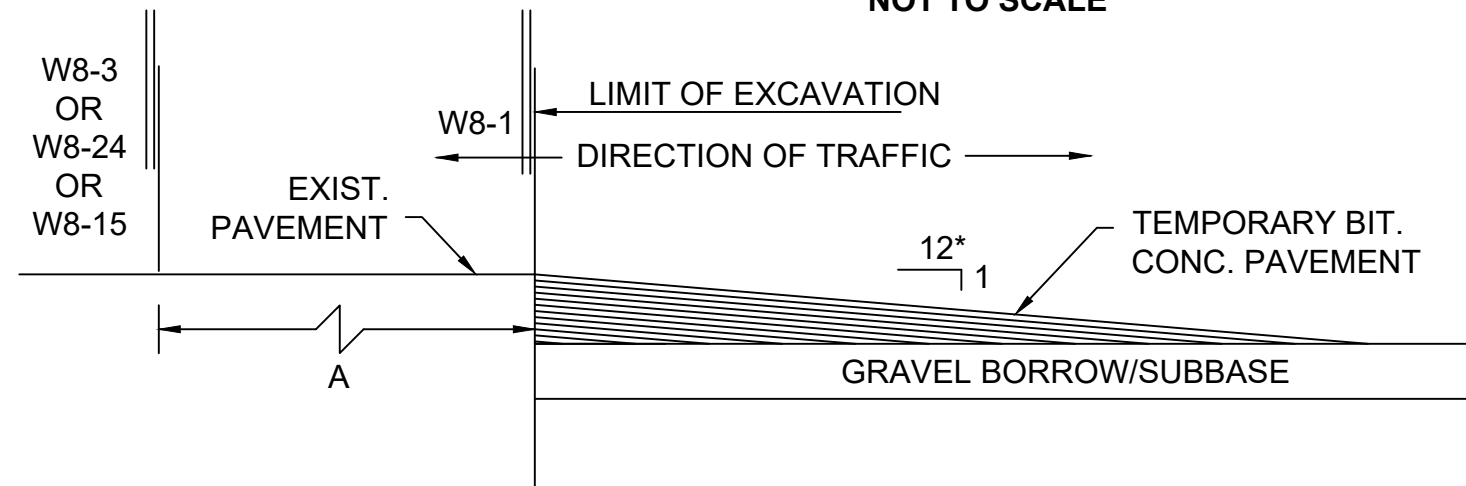
TRUCK MOUNTED ATTENUATOR

TRAFFIC OR PEDESTRIAN SIGNAL

SIGN



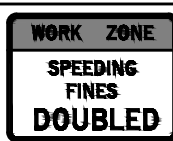
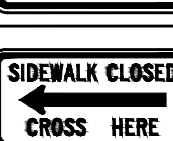
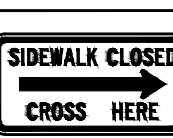
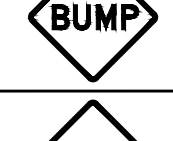
LATERAL DROP-OFF DETAIL
NOT TO SCALE

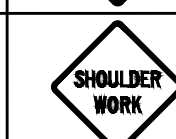


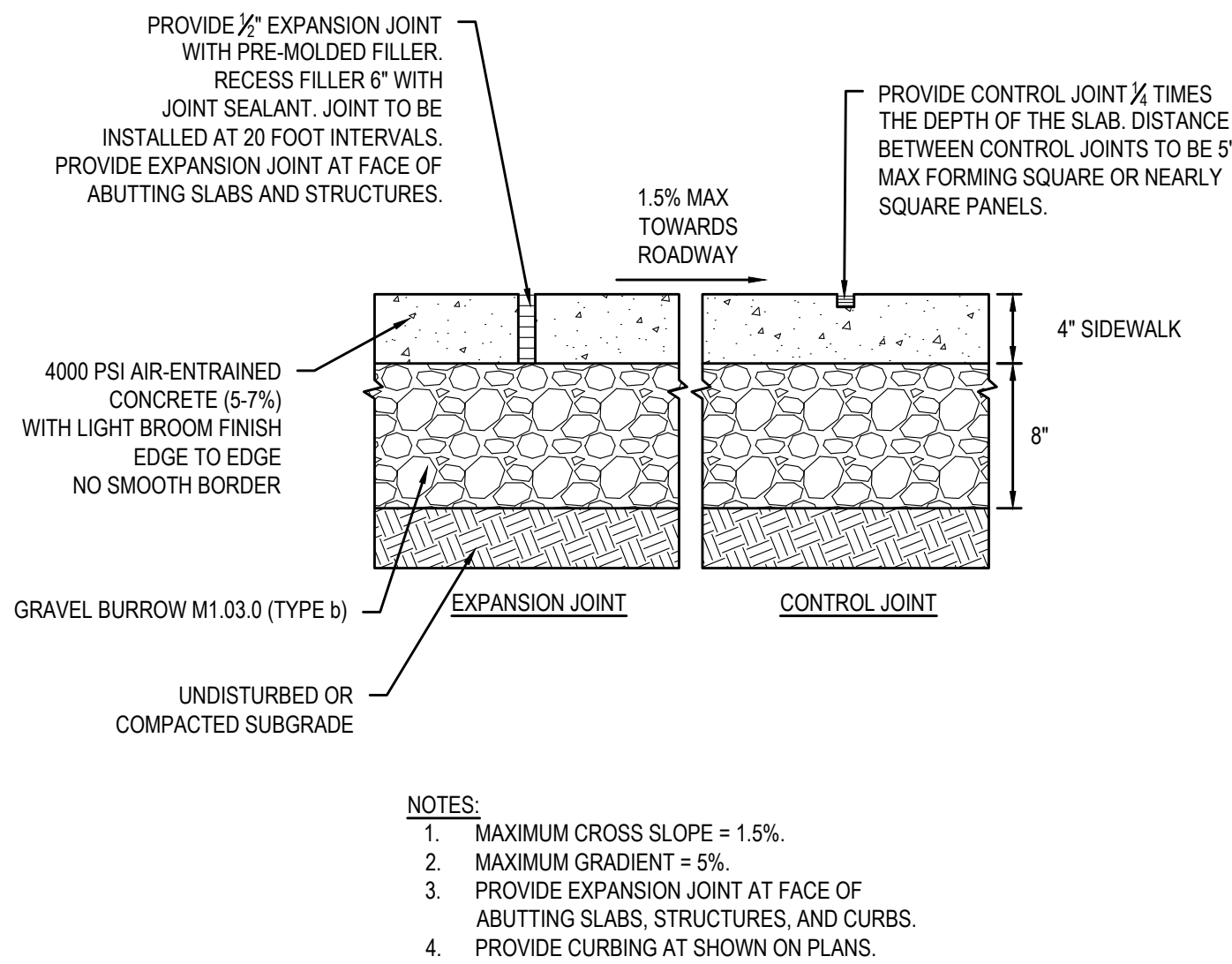
* - INCREASE SLOPE RATIO
FOR HIGHER SPEEDS

LONGITUDINAL DROP-OFF DETAIL
NOT TO SCALE

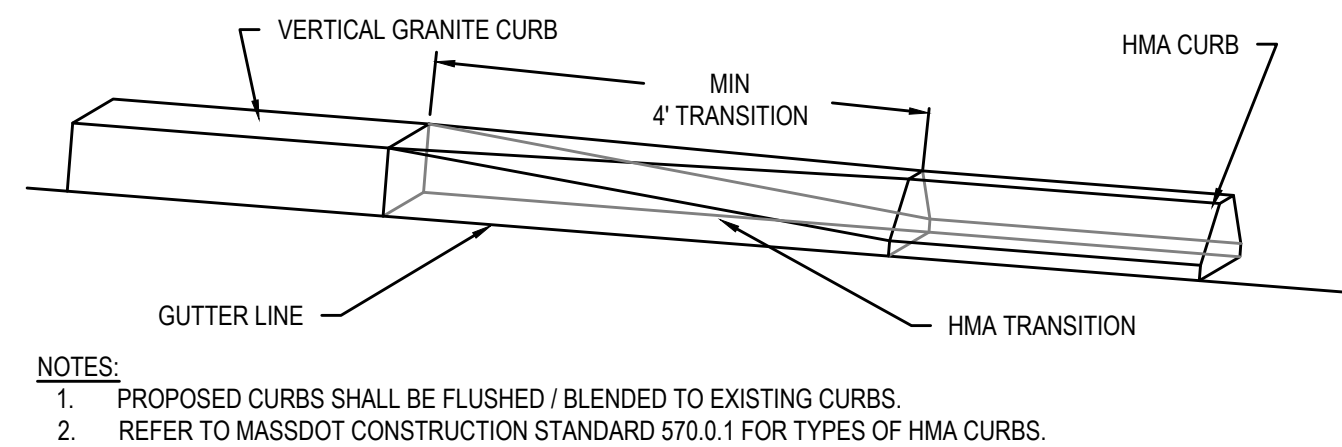
TTC CONSTRUCTION STANDARD DETAILS		
DRAWING NUMBER	TITLE	VERSION
850.1.1	TEMPORARY CURB RAMP (1 OF 2)	JAN 2025
850.1.2	TEMPORARY CURB RAMP (2 OF 2)	JAN 2025
851.2.1	TYPE III BARRICADE	JAN 2025
851.2.2	TYPE III BARRICADE WITH SIGN	JAN 2025
851.3.1	PEDESTRIAN CHANNELIZING DEVICE	JAN 2025
852.1.1	SIDEWALK DETOUR	JAN 2025
852.1.2	SIDEWALK DIVERSION	JAN 2025
852.1.3	PEDESTRIAN DETOUR FOR CROSSWALK CLOSURE	JAN 2025
852.3.1	BICYCLE LANE CLOSURE	JAN 2025
852.3.2	BICYCLE LANE CLOSURE WITH ON-ROAD DETOUR	JAN 2025
852.4.1	ALTERNATING ONE-WAY (FLAGGER CONTROL)	JAN 2025
852.4.4	ALTERNATING ONE-WAY (TRAFFIC OFFICER)	JAN 2025
852.5.1	TWO LANE ROAD CENTER OF ROAD CLOSURE	JAN 2025
852.5.3	TWO LANE ROAD SHOULDER CLOSURE	JAN 2025
852.5.4	TWO LANE ROAD HALF ROAD CLOSURE	JAN 2025
852.6.1	MULTI-LANE ROAD RIGHT LANE CLOSURE	JAN 2025
852.6.3	MULTI-LANE ROAD LEFT LANE CLOSURE	JAN 2025
852.6.5	MULTI-LANE ROAD INTERIOR LANES CLOSURE	JAN 2025
852.10.1	INTERSECTION CENTER CLOSURE	JAN 2025
852.10.2	INTERSECTION QUADRANT CLOSURE	JAN 2025

TEMPORARY TRAFFIC CONTROL SIGN SUMMARY												
IDENTIFICATION NUMBER	SIZE OF SIGN (in)		LEGEND	TEXT DIMENSIONS (in)			COLOR			NUMBER OF SIGNS REQUIRED	UNIT AREA (SF)	TOTAL AREA (SF)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR	BACK-GROUND	LEGEND	BORDER			
MA-R2-10a	48	36		MASSDOT STANDARD SIGN			FL. ORANGE WHITE	BLACK	BLACK	4	12.00	48.00
MA-R2-10e	36	48					FL. ORANGE WHITE	BLACK	BLACK	4	12.00	48.00
M4-9c	30	24					SEE MUTCD 11TH EDITION			FL. ORANGE	BLACK	BLACK
M4-9cL	30	24					FL. ORANGE	BLACK	BLACK	2	5.00	10.00
M4-9cR	30	24					FL. ORANGE	BLACK	BLACK	2	5.00	10.00
R3-17	30	24					WHITE	BLACK	BLACK	1	5.00	5.00
R3-17aP	30	12					WHITE	BLACK	BLACK	1	2.50	2.50
R4-7	24	30					WHITE	BLACK	BLACK	2	5.00	10.00
R4-11	30	30					WHITE	BLACK	BLACK	1	6.25	6.25
R9-9	36	16					WHITE	BLACK	BLACK	2	4.00	8.00
R9-11aL	24	12					WHITE	BLACK	BLACK	2	2.00	4.00
R9-11aR	24	12					WHITE	BLACK	BLACK	2	2.00	4.00
R11-2e	48	30					WHITE	BLACK	BLACK	2	10.00	20.00
W1-4L	36	36					FL. ORANGE	BLACK	BLACK	2	9.00	18.00
W1-4R	36	36					FL. ORANGE	BLACK	BLACK	2	9.00	18.00
W5-1	36	36					FL. ORANGE	BLACK	BLACK	2	9.00	18.00
W8-1	36	36					FL. ORANGE	BLACK	BLACK	2	9.00	18.00
W8-3	36	36					FL. ORANGE	BLACK	BLACK	2	9.00	18.00
W8-15	36	36					FL. ORANGE	BLACK	BLACK	2	9.00	18.00
W8-24	36	36					FL. ORANGE	BLACK	BLACK	2	9.00	18.00
W11-1	36	36					FL. ORANGE	BLACK	BLACK	3	9.00	27.00
W11-2	30	30					FL. ORANGE	BLACK	BLACK	4	6.25	25.00
W16-8p	VARIES	8					FL. ORANGE	BLACK	BLACK	6	VARIES	VARIES

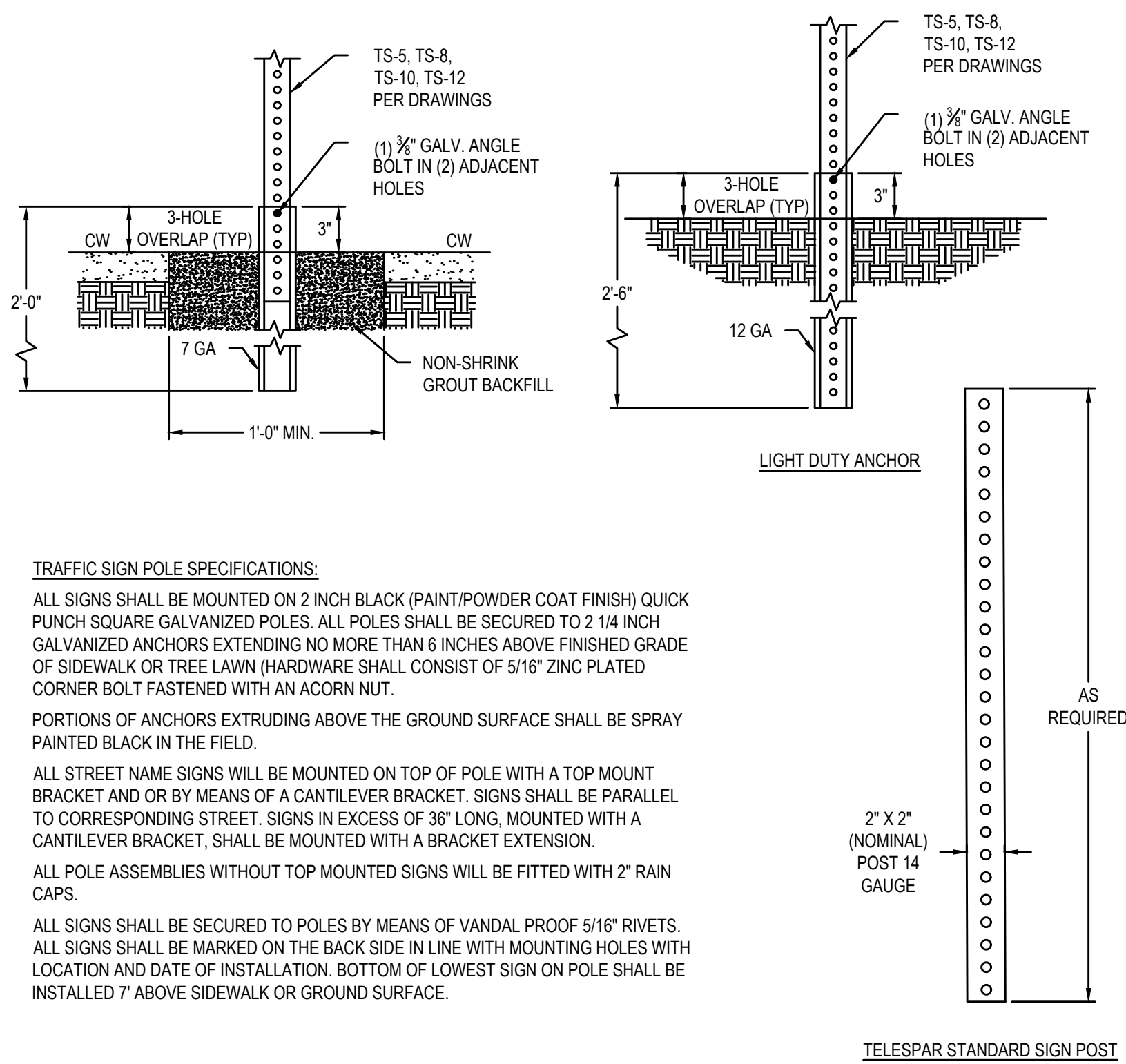
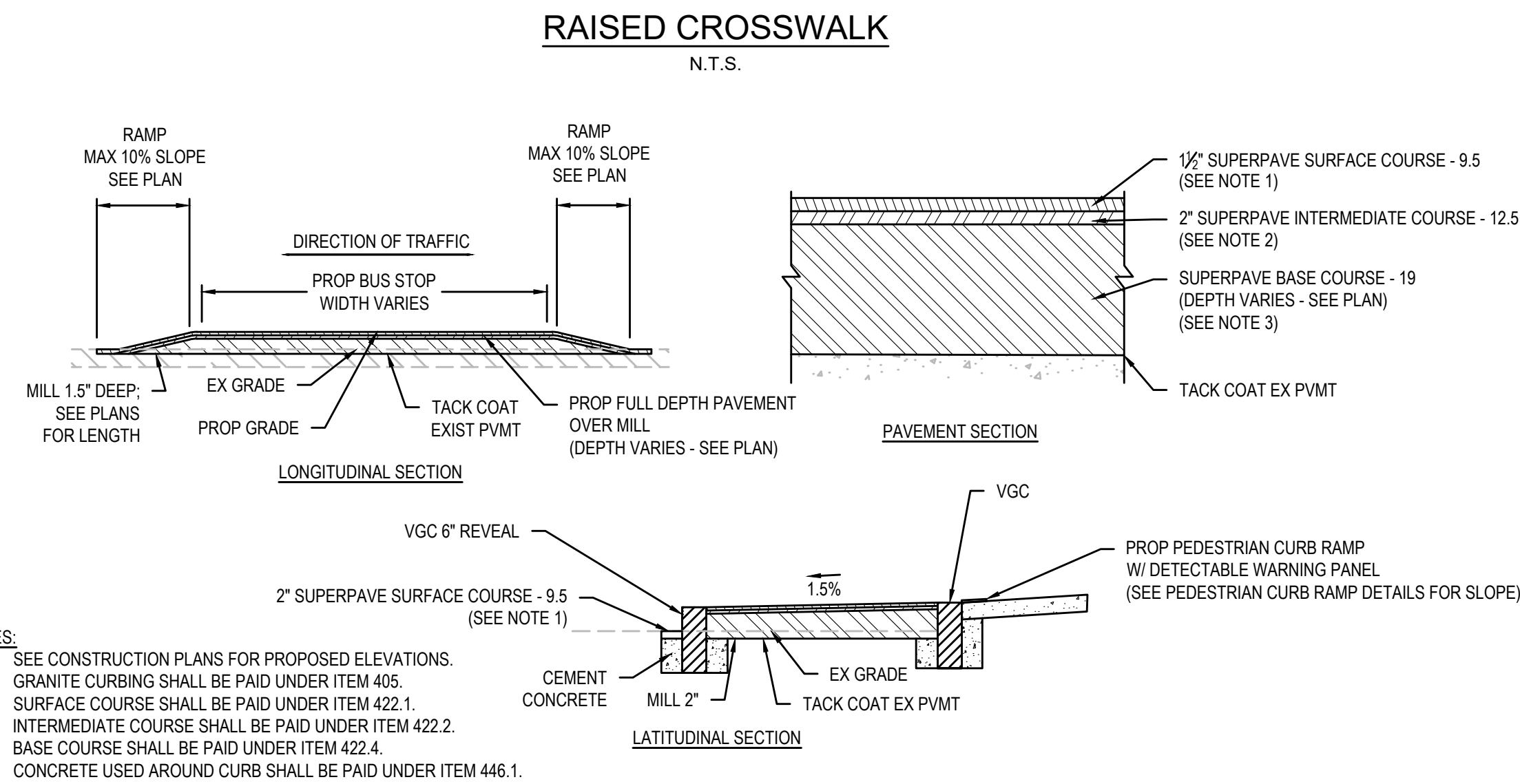
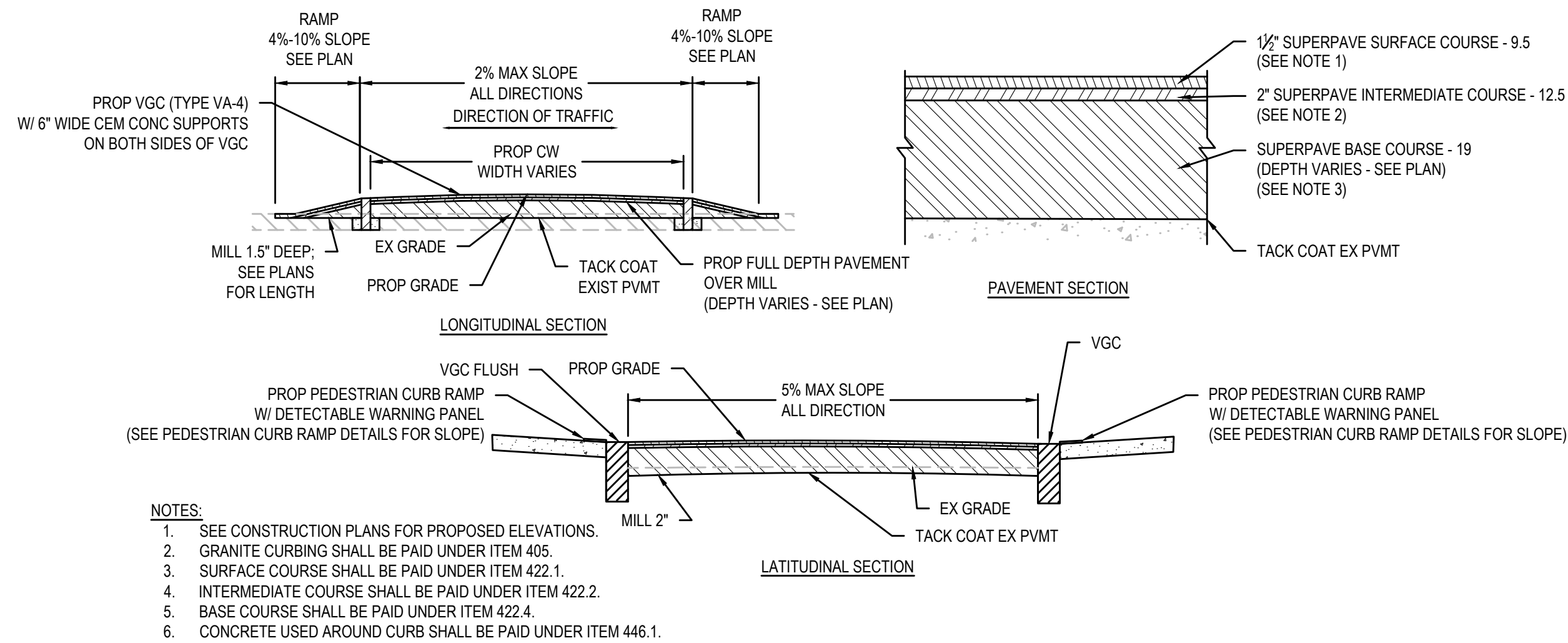
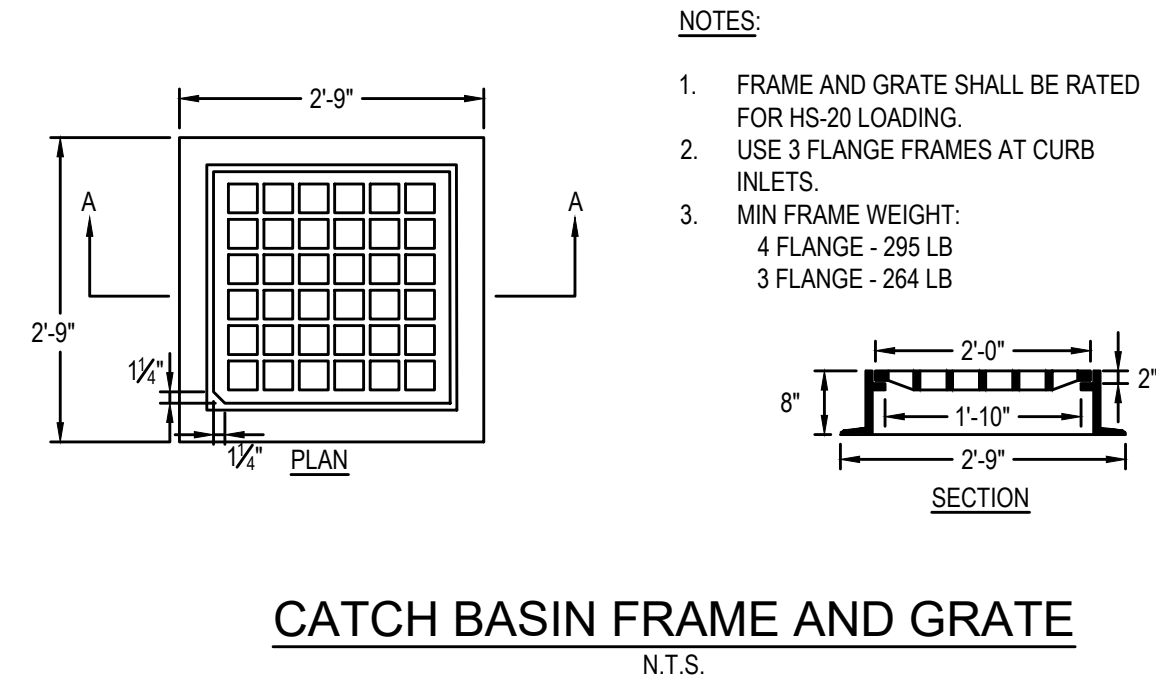
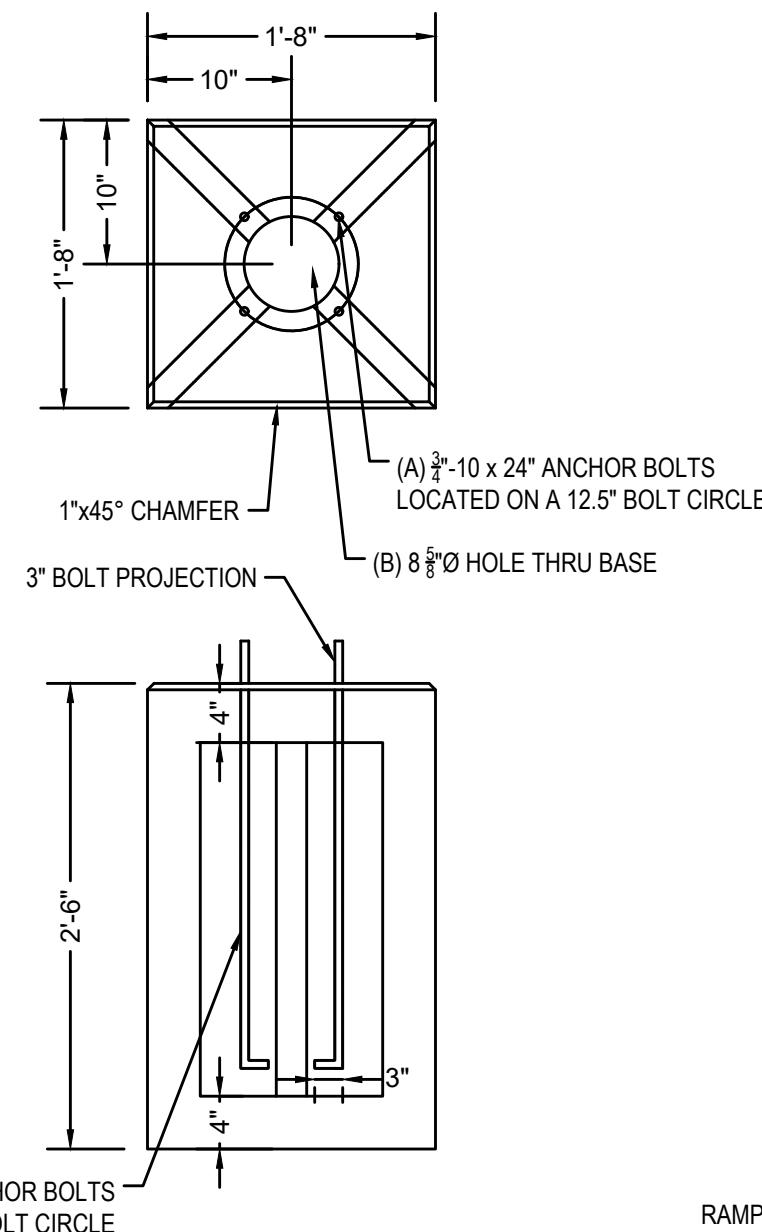
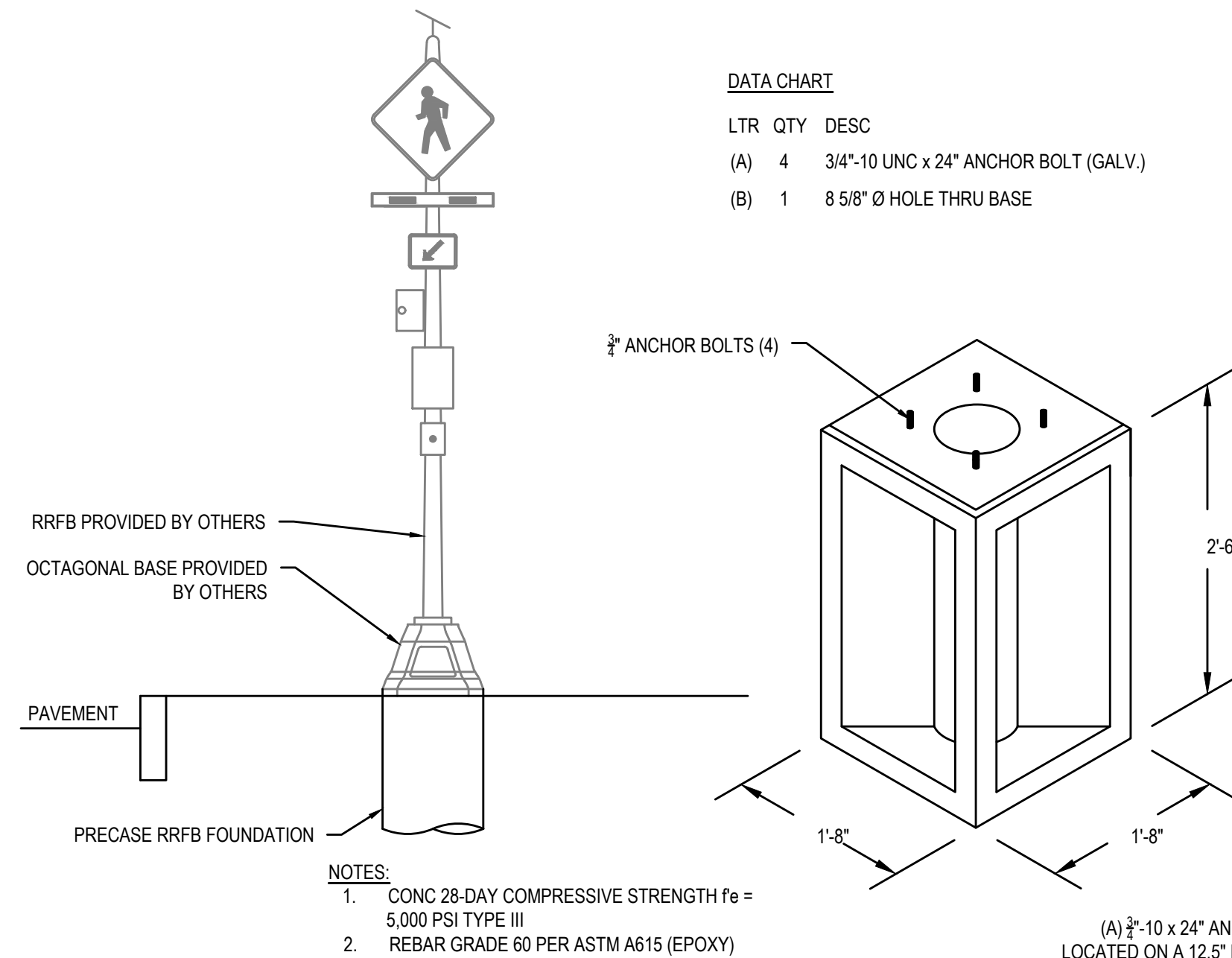
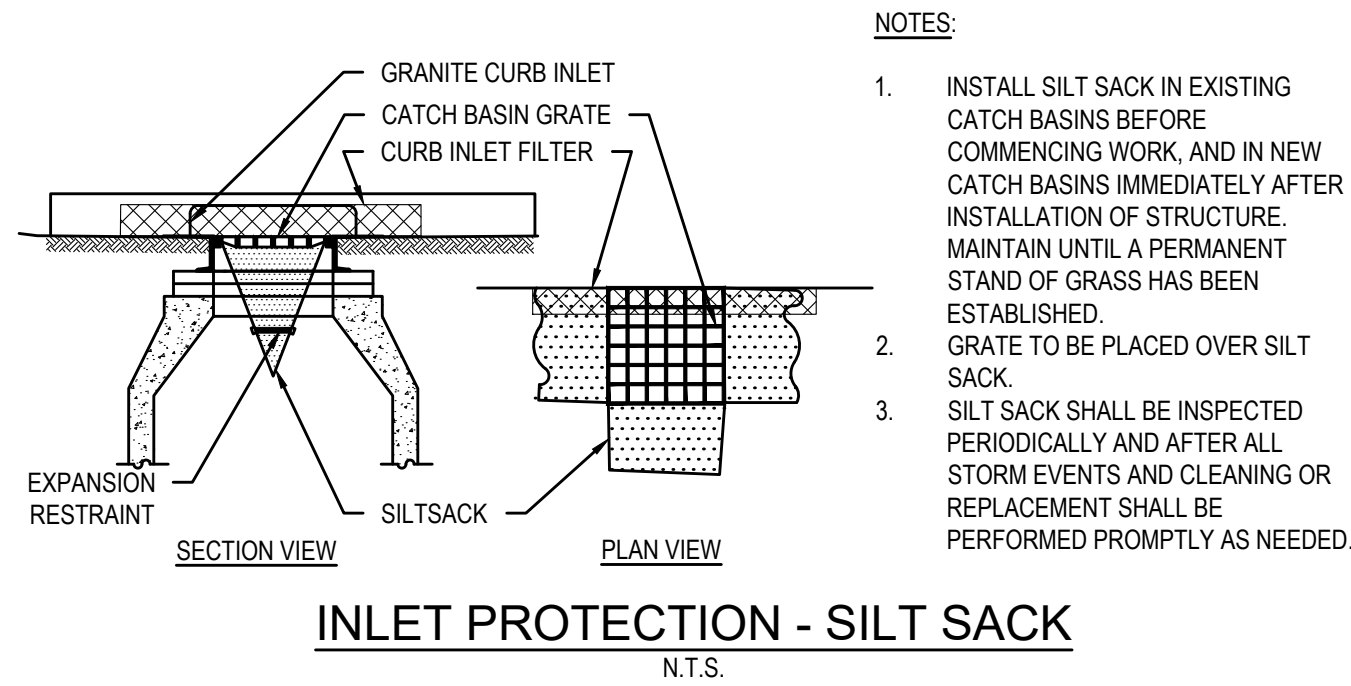
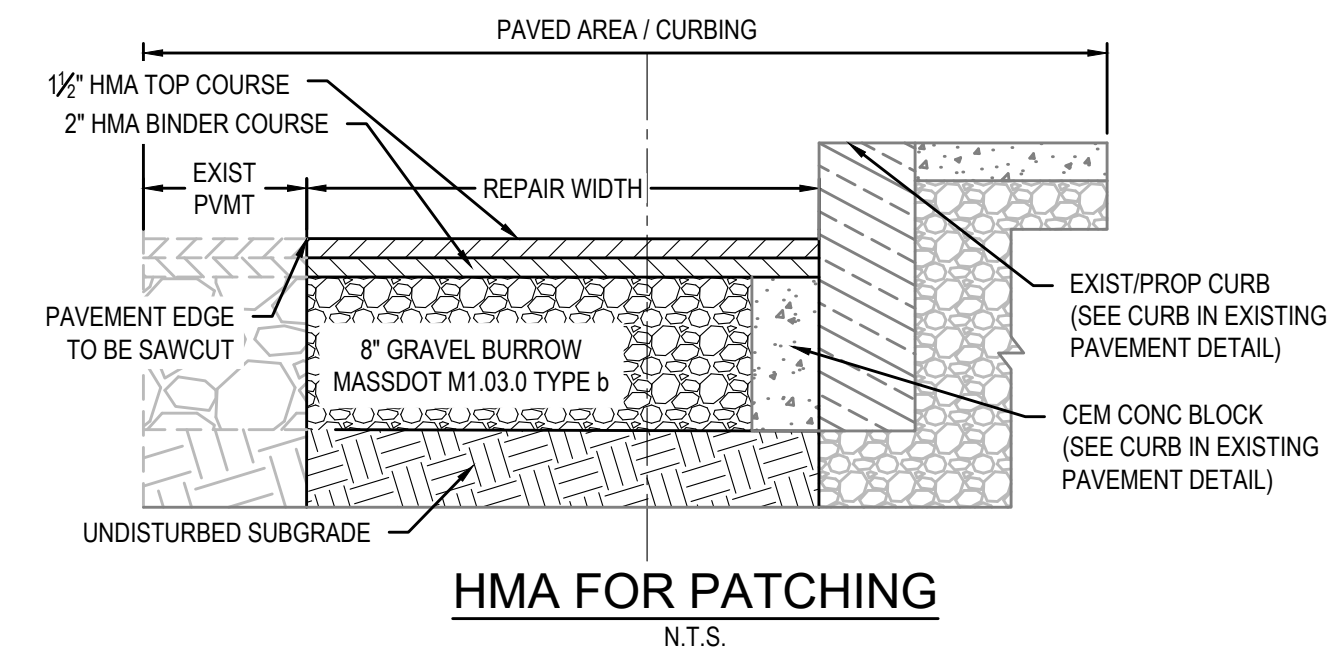
IDENTIFICATION NUMBER	SIZE OF SIGN (in)		LEGEND	TEXT DIMENSIONS (in)			COLOR			NUMBER OF SIGNS REQUIRED	UNIT AREA (SF)	TOTAL AREA (SF)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR	BACK-GROUND	LEGEND	BORDER			
W16-7pL	24	12		SEE MUTCD 11TH EDITION			FL. ORANGE	BLACK	BLACK	2	2.00	4.00
W16-9p	24	8					FL. ORANGE	BLACK	BLACK	2	1.33	2.67
MA-W16-19P	30	24					FL. ORANGE	BLACK	BLACK	3	5.00	15.00
W20-1	36	36		SEE MUTCD 11TH EDITION			FL. ORANGE	BLACK	BLACK	4	9.00	36.00
W20-2 (MOD)	36	36					FL. ORANGE	BLACK	BLACK	1	9.00	9.00
W20-4	36	36					FL. ORANGE	BLACK	BLACK	1	9.00	9.00
MA-W20-7b	36	36					FL. ORANGE	BLACK	BLACK	4	9.00	36.00
W21-5	36	36		SEE MUTCD 11TH EDITION			FL. ORANGE	BLACK	BLACK	1	9.00	9.00
MA-W21-5c	36	36		MASSDOT STANDARD SIGN			FL. ORANGE	BLACK	BLACK	1	9.00	9.00
MA-W30-8R	36	36					FL. ORANGE	BLACK	BLACK	2	9.00	18.00

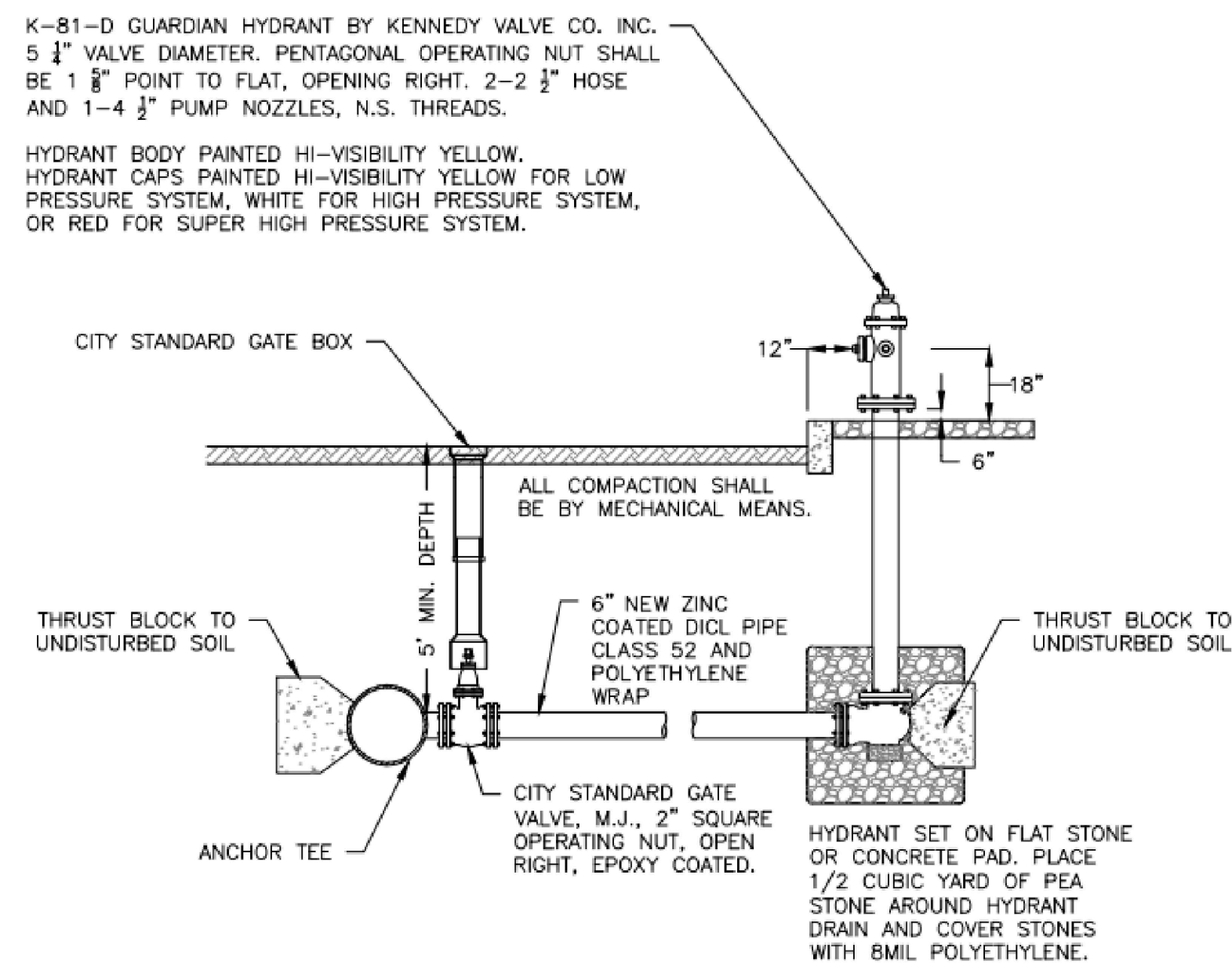
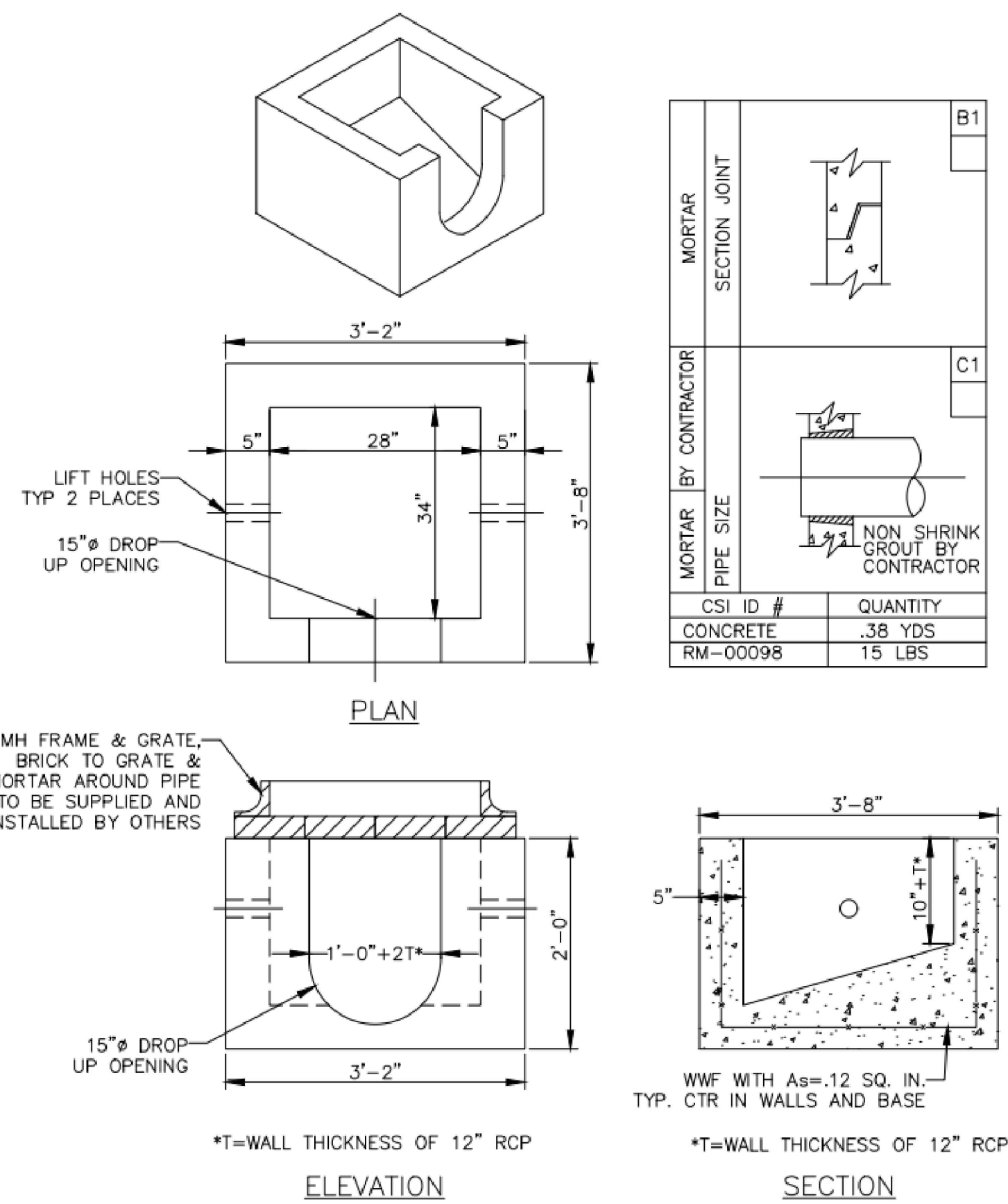
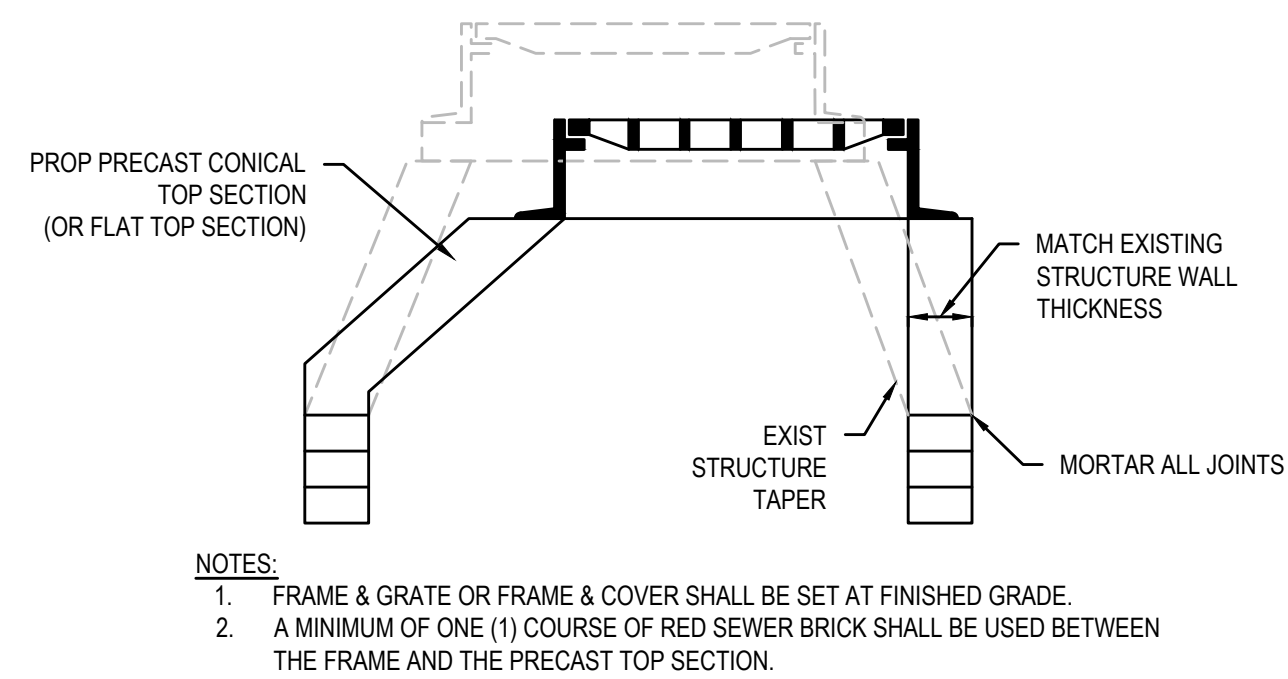
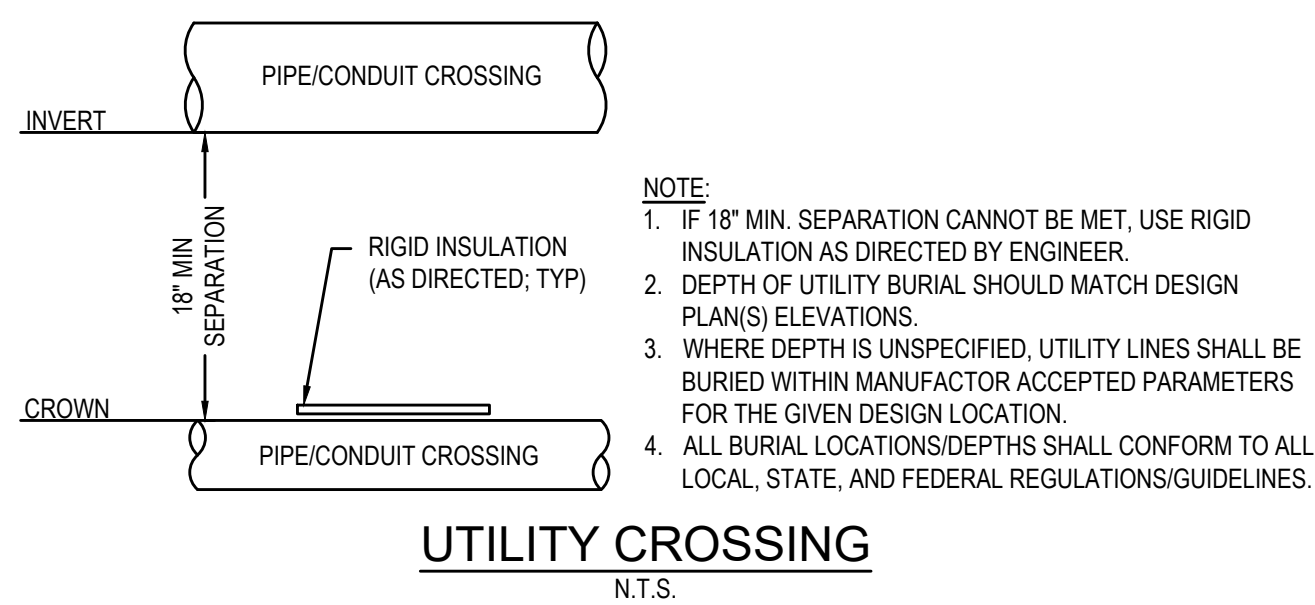


CEMENT CONCRETE SIDEWALK
N.T.S.



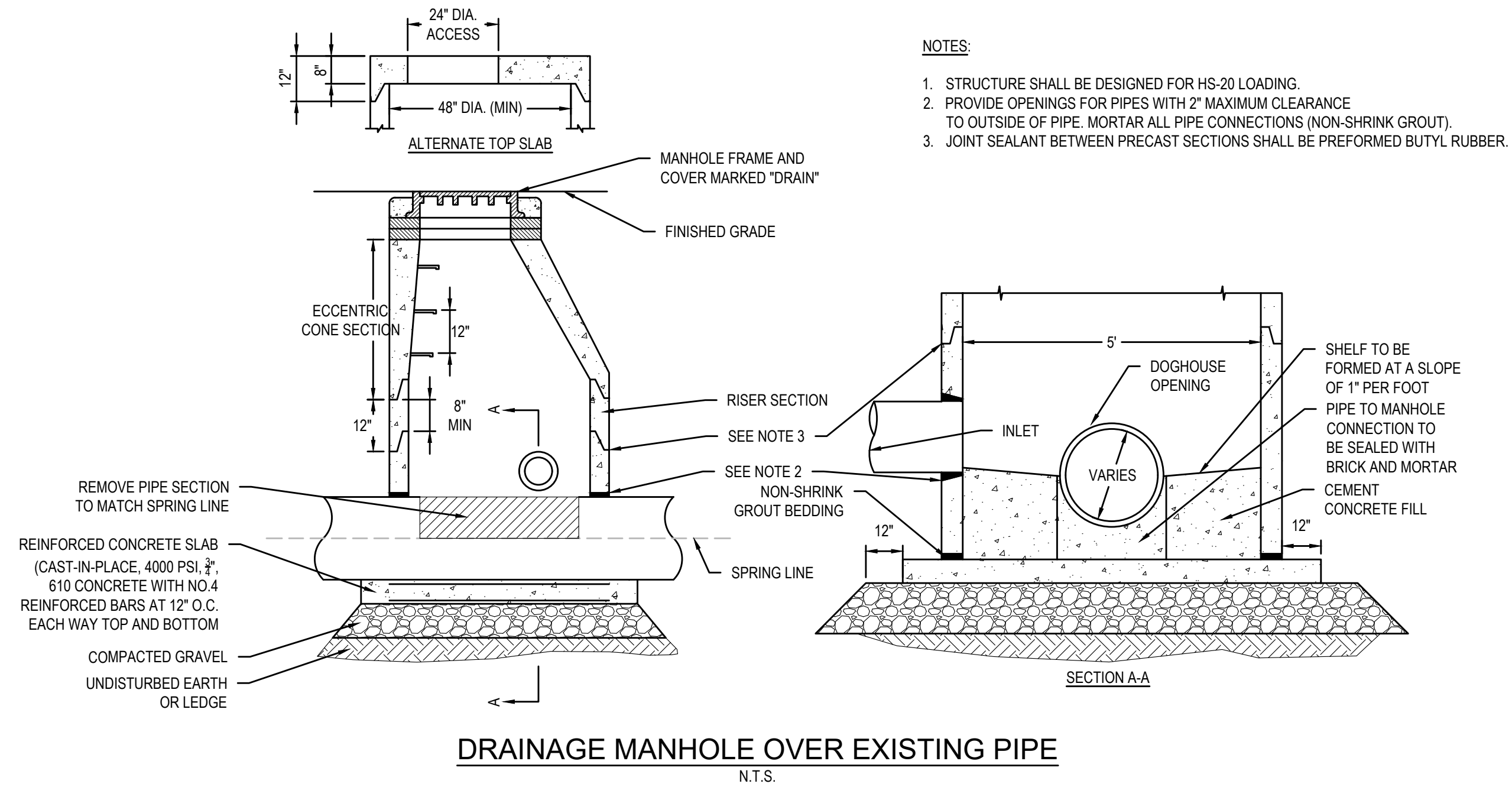
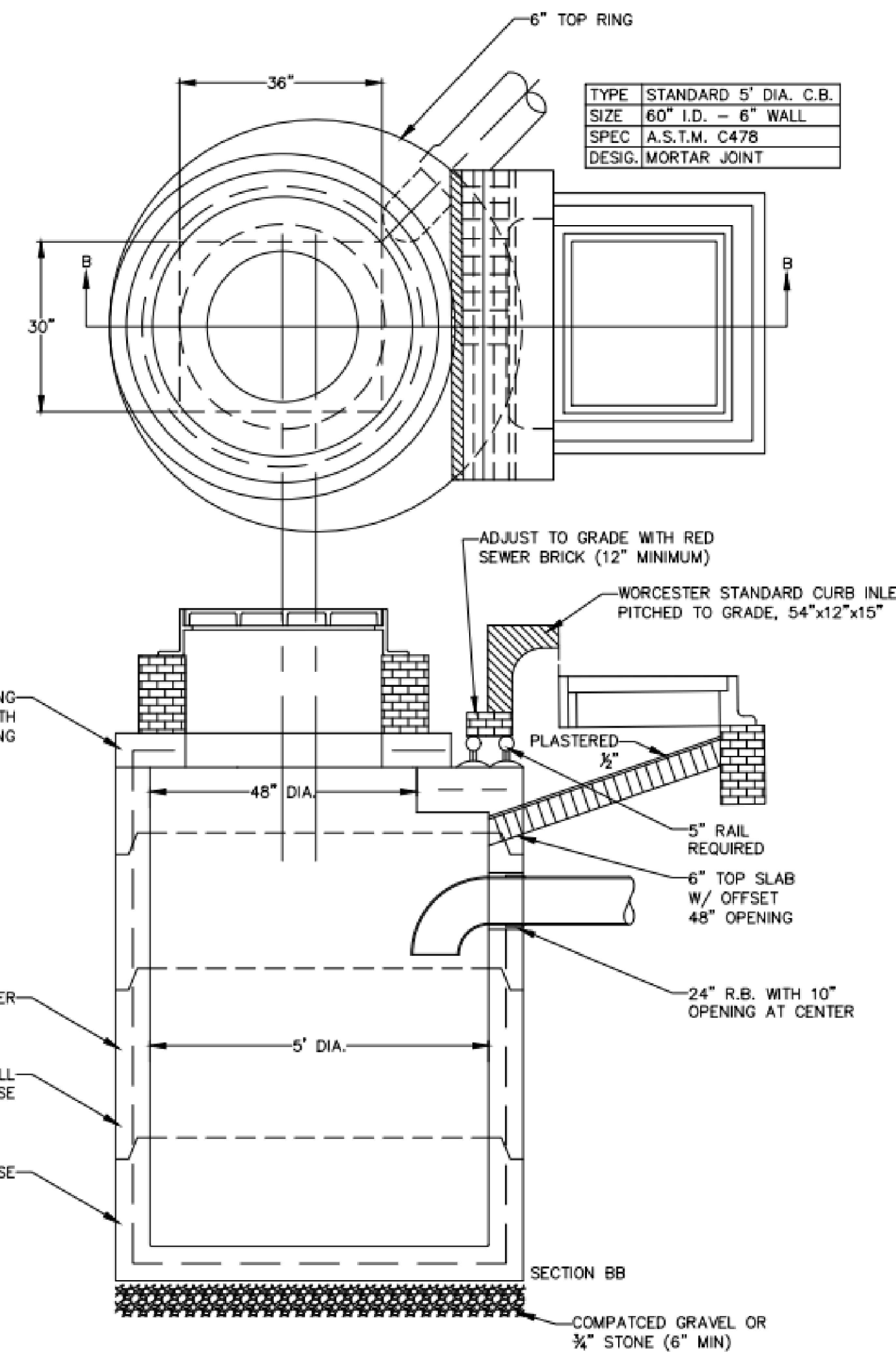
VGC TRANSITION TO HMA CURB
N.T.S.

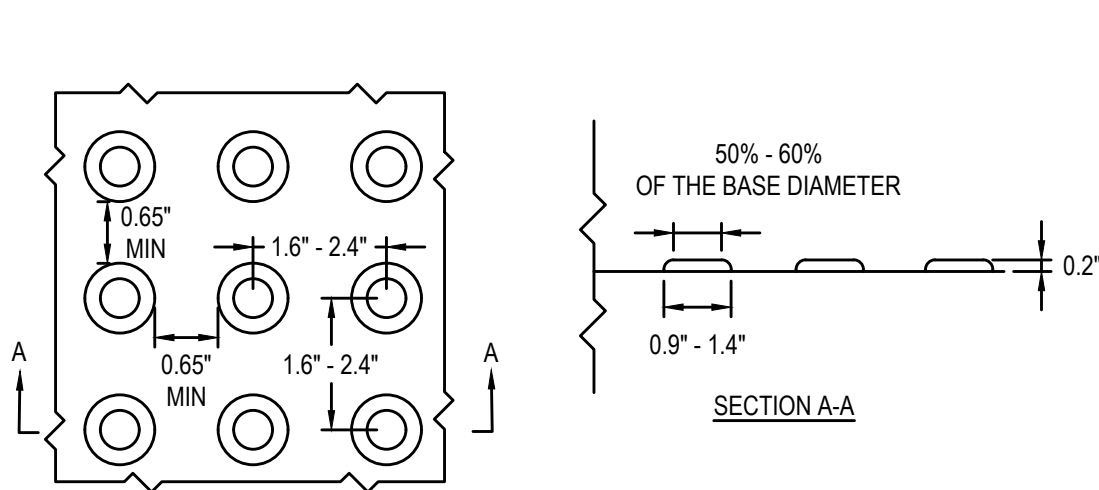




HYDRANT INSTALLATION

N.T.S.



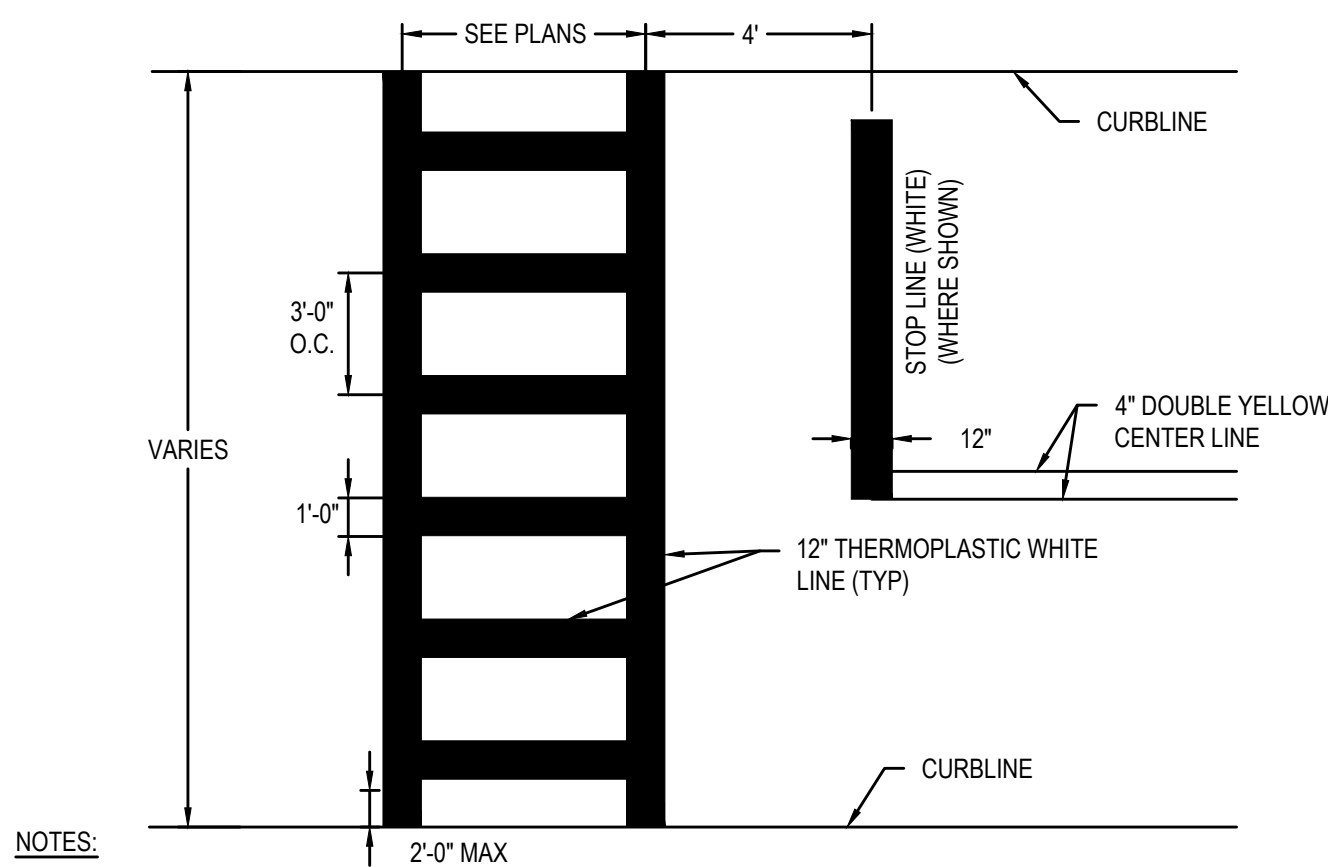


NOTES:

PANELS SHALL BE A HOMOGENOUS GLASS AND CARBON REINFORCED COMPOSITE WHICH IS COLORFAST AND UV STABLE. TRUNCATED DOMES SHALL BE FIBERGLASS REINFORCED FOR ENHANCED DURABILITY. YELLOW COLOR OF THE TWS PANEL SHALL BE UNIFORM THROUGHOUT AND SHALL NOT RELY ON ANY TYPE OF PAINT COATING TO ACHIEVE COLOR STABILITY.

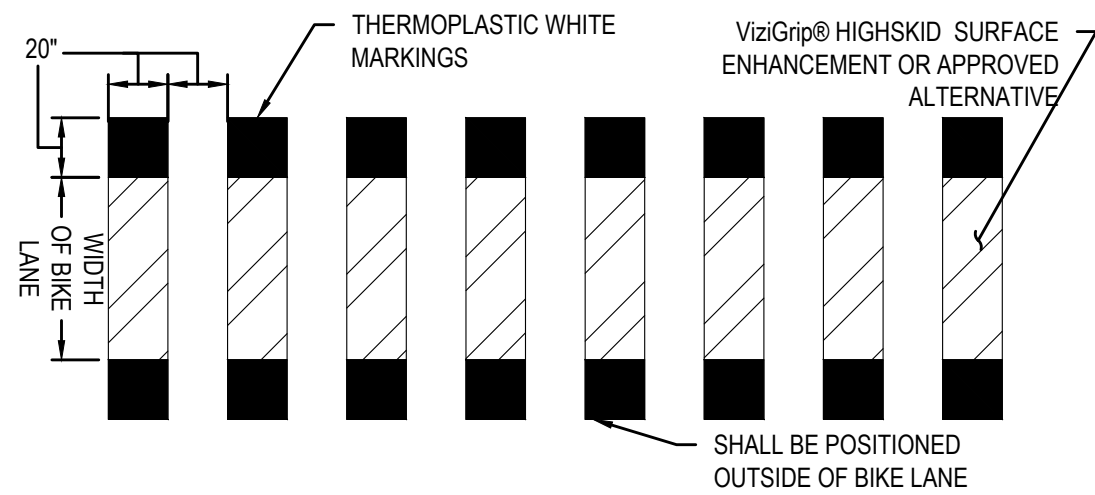
PANELS SHALL BE EQUIPPED WITH ½" x 1½" HEAVY DUTY STEEL BOLTS (FASTENERS) PROTRUDING ½" FROM PANEL BODY. THE BOLTS (FASTENERS) ARE SECURED INTO CORROSION RESISTANT CONCRETE INSERTS TO ENSURE THAT THE BOLTS (FASTENERS) ARE SECURELY EMBEDDED 2" INTO THE CONCRETE. BOLTS (FASTENERS) SHALL BE COVERED WITH A STRUCTURAL WATER TIGHT CAP. THE TWS UNIT SHALL BE FIRMLY PRESSED INTO PLACE IN THE FRESHLY POURED CONCRETE. THE TWS UNITS SHALL BE ABLE TO BE REPLACED BY REMOVING THE BOLTS AND INSERTING A NEW INTERCHANGEABLE TWS UNIT IN THE EXISTING RECESS.

DETECTABLE WARNING PANEL
N.T.S.



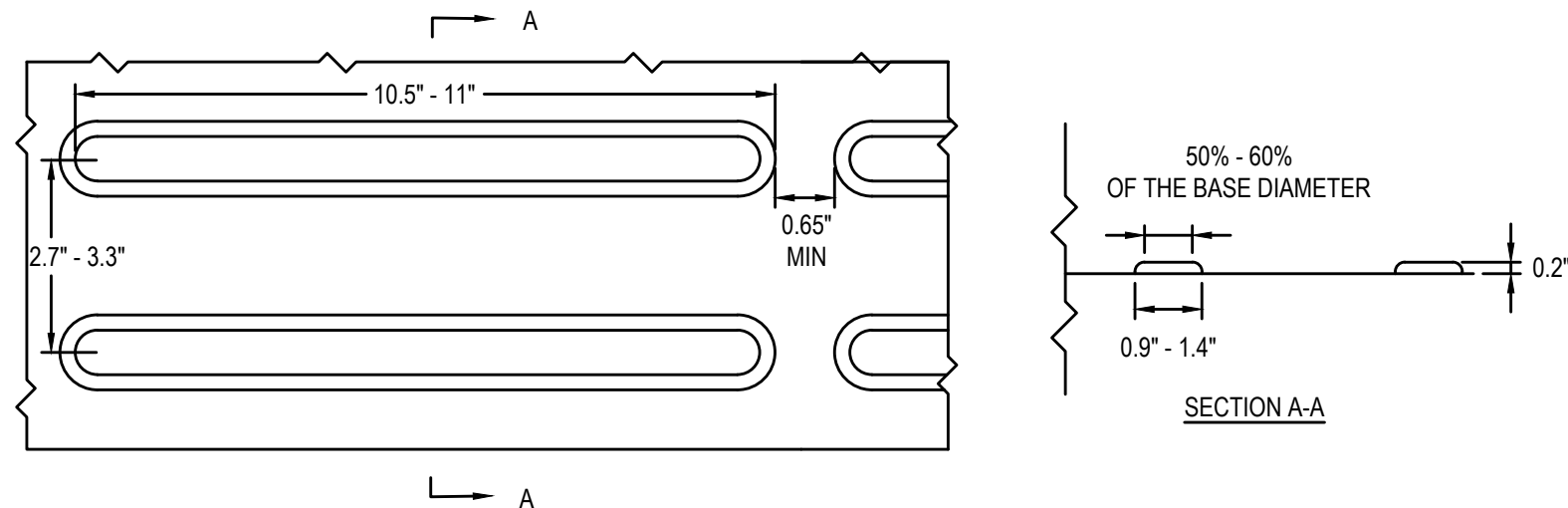
- NOTES:**
- ALL 12" LINES SHALL BE APPLIED IN ONE APPLICATION. NO COMBINATION OF LINES (TWO - 6" LINES) WILL BE ACCEPTED. ALL 24" LINES MAY BE EITHER ONE 24" LINE OR A COMBINATION OF TWO - 12" LINES.
 - PAINTING SHALL BE DONE ONLY IN SEASONABLE WATHER CONDITIONS IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
 - BEADS MUST BE APPLIED IN ALLOWANCE WITH PRESENT STANDARDS OF THE COMMONWEALTH OF MASSACHUSETTS.
 - LAYOUT OF CROSSWALKS SHALL BE APPROVED BY THE ENGINEER PRIOR TO APPLICATION.
 - CROSSWALK BARS SHALL BE PLACED OUTSIDE THE VEHICULAR WHEEL PATH AND AVOID ANY STRUCTURES WHEREVER POSSIBLE.
 - REFER WORCESTER STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS FOR CROSSWALK MARKINGS

CROSSWALK PAVEMENT MARKING
N.T.S.



- NOTES:**
- REFER TO WORCESTER STANDARD CONSTRUCTION SPECIFICATIONS AND DETAILS FOR ONE LANE.

ELEPHANT FEET PAVEMENT MARKING
N.T.S.

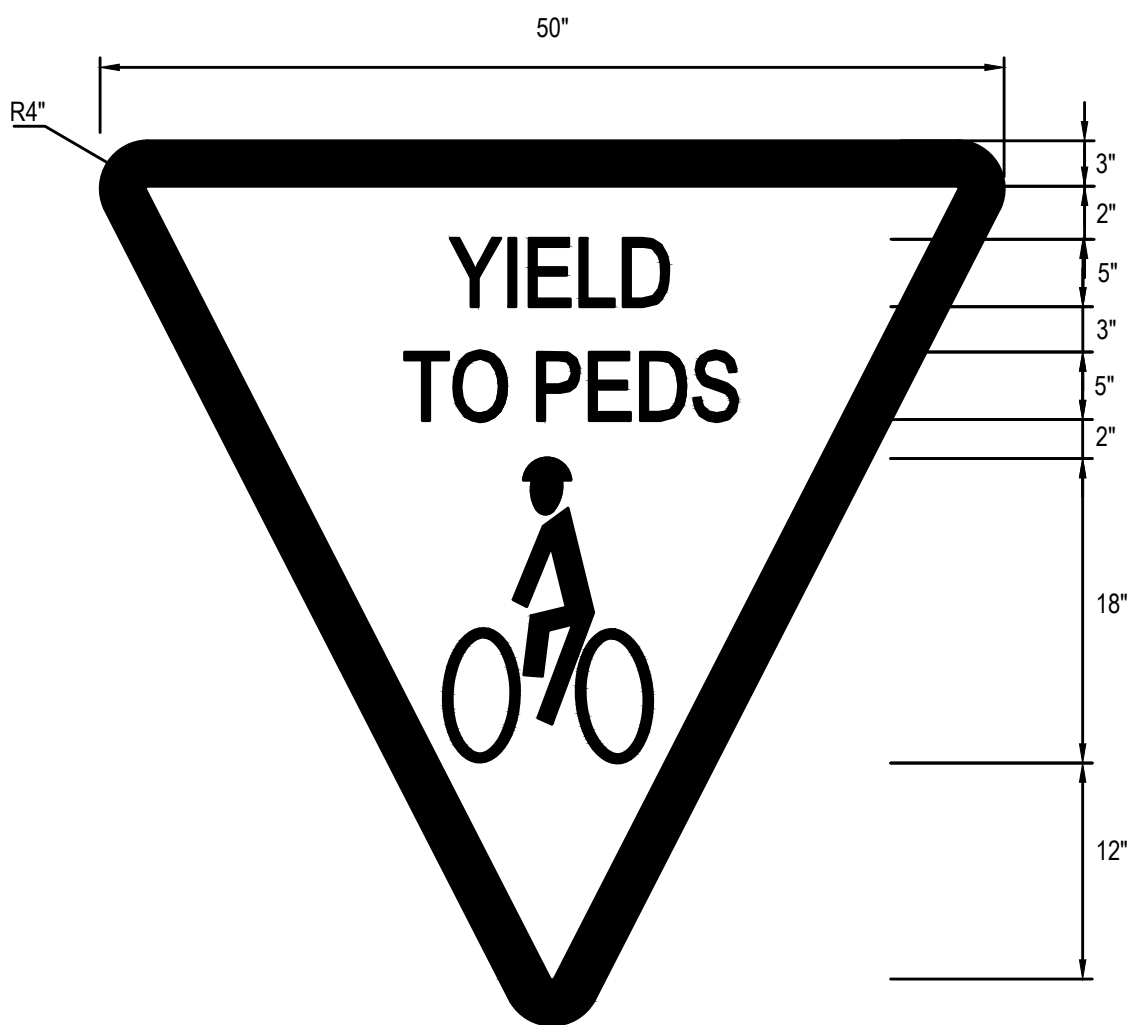


NOTES:

PANELS SHALL BE A HOMOGENOUS GLASS AND CARBON REINFORCED COMPOSITE WHICH IS COLORFAST AND UV STABLE. RAISED BARS SHALL BE FIBERGLASS REINFORCED FOR ENHANCED DURABILITY. YELLOW COLOR OF THE TWS PANEL SHALL BE UNIFORM THROUGHOUT AND SHALL NOT RELY ON ANY TYPE OF PAINT COATING TO ACHIEVE COLOR STABILITY.

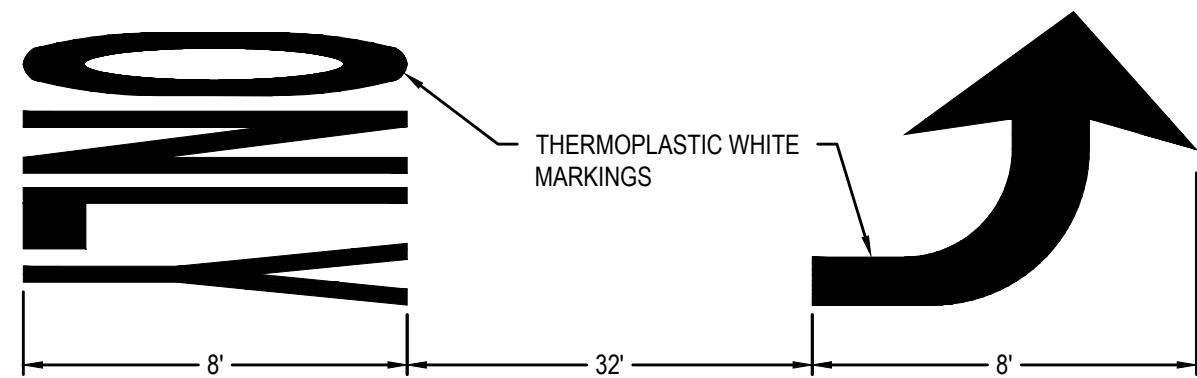
PANELS SHALL BE EQUIPPED WITH ½" x 1½" HEAVY DUTY STEEL BOLTS (FASTENERS) PROTRUDING ½" FROM PANEL BODY. THE BOLTS (FASTENERS) ARE SECURED INTO CORROSION RESISTANT CONCRETE INSERTS TO ENSURE THAT THE BOLTS (FASTENERS) ARE SECURELY EMBEDDED 2" INTO THE CONCRETE. BOLTS (FASTENERS) SHALL BE COVERED WITH A STRUCTURAL WATER TIGHT CAP. THE TDI UNIT SHALL BE FIRMLY PRESSED INTO PLACE IN THE FRESHLY POURED CONCRETE. THE TDI UNITS SHALL BE ABLE TO BE REPLACED BY REMOVING THE BOLTS AND INSERTING A NEW INTERCHANGEABLE TDI UNIT IN THE EXISTING RECESS.

TACTILE DIRECTIONAL INDICATOR
N.T.S.



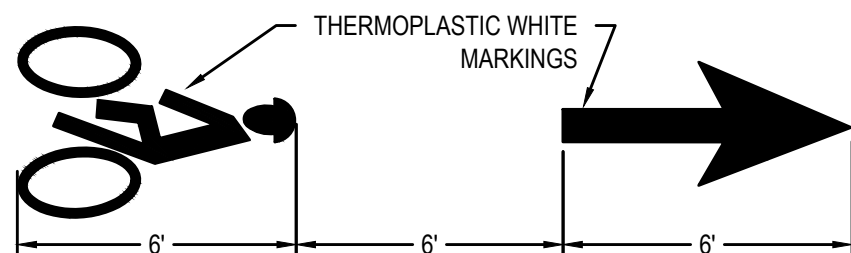
- NOTE:**
- PAVEMENT MARKING SYMBOLS SHALL BE CONSISTED OF PREFORMED THERMOPLASTIC.
 - THE BACKGROUND SHALL BE RED, THE LEGEND AND BORDER SHALL BE WHITE.

YIELD TO PEDESTRIAN MARKING
N.T.S.

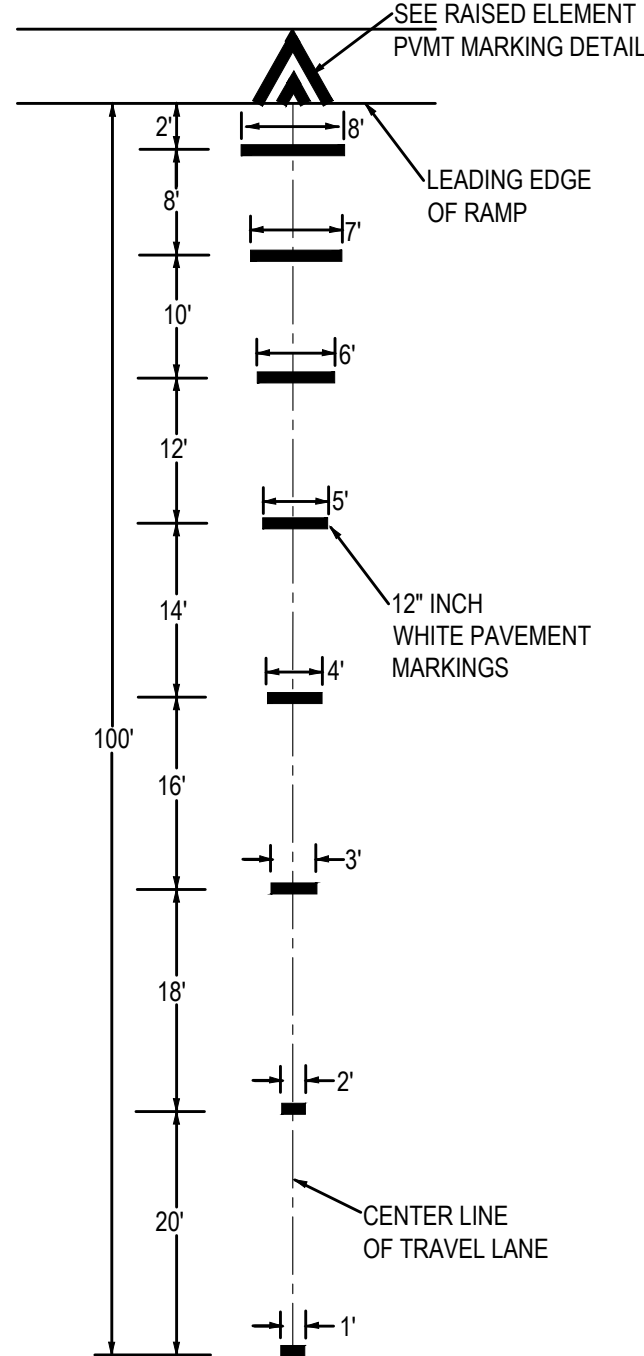


- NOTE:** SPACING SHALL BE SAME FOR ANY TURN LANE AND THRU ONLY PAVEMENT MARKING (REFER TO MUTCD STANDARDS)

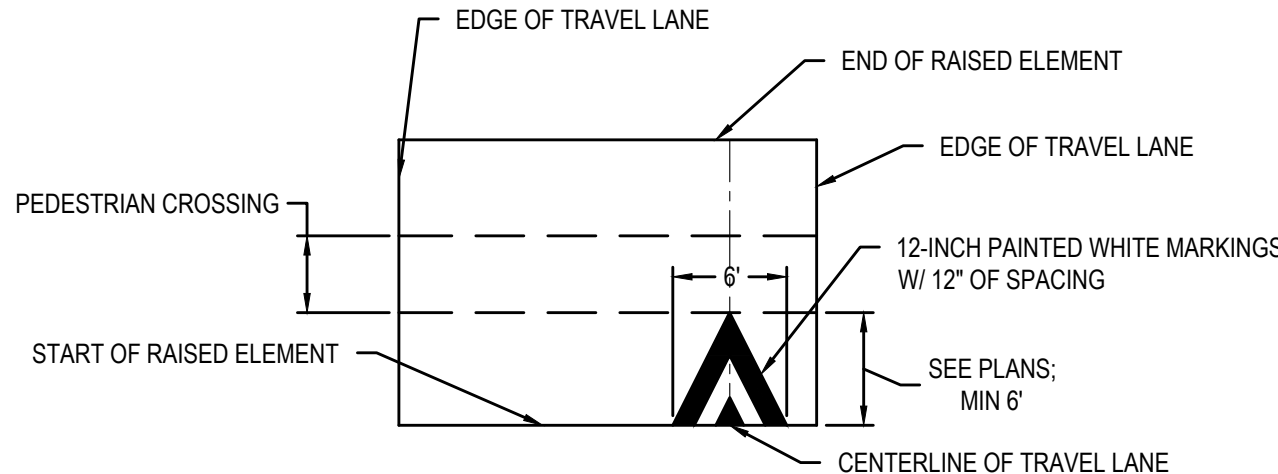
TURN LANE PAVEMENT MARKING
N.T.S.



HELMETED BICYCLIST LANE PAVEMENT MARKING
N.T.S.



ADVANCE WARNING MARKINGS FOR RAISED ELEMENTS
N.T.S.



- NOTE**
- REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SECTION 3B.

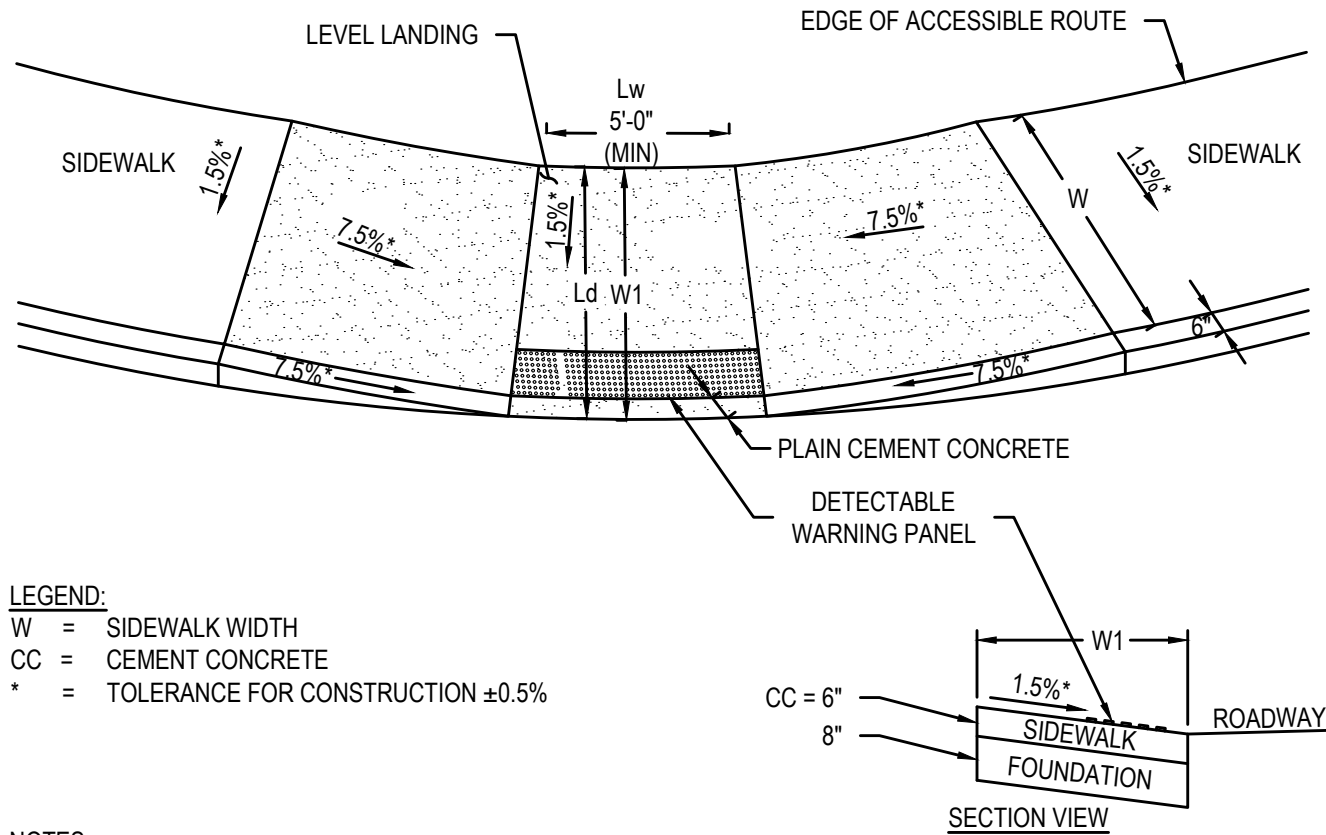
RAISED ELEMENT PAVEMENT MARKING
N.T.S.

PEDESTRIAN CURB RAMP NOTES:

1. MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE DESIGNED TO 4.5% $\pm$ 0.5% (7.5% $\pm$ 0.5% FOR CURB RAMPS)
2. A MINIMUM OF 4'-0" CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
3. CURBING SHALL BE GRANITE CURBING TYPE VA-4.
4. RAMP, CURB AND ADJACENT PAVEMENTS SHALL BE GRADED TO PREVENT PONDING.
5. WHERE ACCESSIBLE ROUTES ARE LESS THAN 5' IN WIDTH (EXCLUDING CURBING) A 5x5' PASSING AREA SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 200 FT.
6. ELIMINATE CURBING AT RAMP WHERE IT ABUTS ROADWAY, UNLESS AT THE RAISED CROSSWALK.
7. DETECTABLE WARNING PANELS ARE REQUIRED ON ALL OF THE PROPOSED PEDESTRIAN CURB RAMPS/MEDIAN CUT THROUGH AND ARE TO BE INSTALLED IN ACCORDANCE WITH MASSDOT CONSTRUCTION STANDARD. CONTRACTOR SHALL PROVIDE A MINIMUM OF 6" BETWEEN DETECTABLE WARNING PANEL AND EDGE OF CONCRETE WHERE IT ABUTS THE ROADWAY.
8. PEDESTRIAN CURB RAMP SLOPES AND CROSS SLOPES SHALL HAVE A CONSTRUCTION TOLERANCE OF $\pm$ 0.5%.
9. DETECTABLE WARNING PANELS SHALL BE YELLOW IN COLOR AS APPROVED BY THE LOCAL DPW.

PEDESTRIAN CURB RAMP NOTES

N.T.S.



LEGEND:

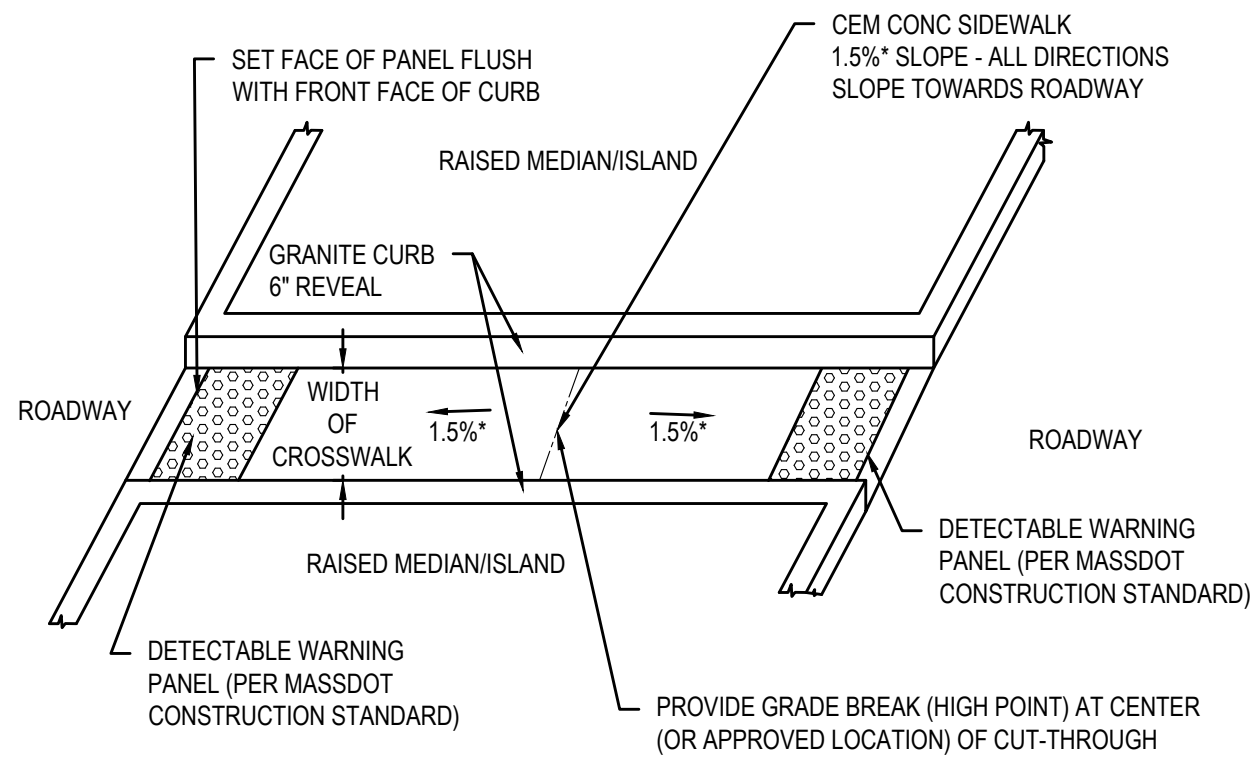
W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
* = TOLERANCE FOR CONSTRUCTION $\pm$ 0.5%

NOTES:

1. USABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'-0".
2. ROADWAY GUTTER SLOPE MEASURED IN UPSTATION DIRECTION.
3. SEE MASSDOT CONSTRUCTION FOR DETECTABLE WARNING PANEL DETAILS.

PEDESTRIAN CURB RAMP - TYPE 1

N.T.S.

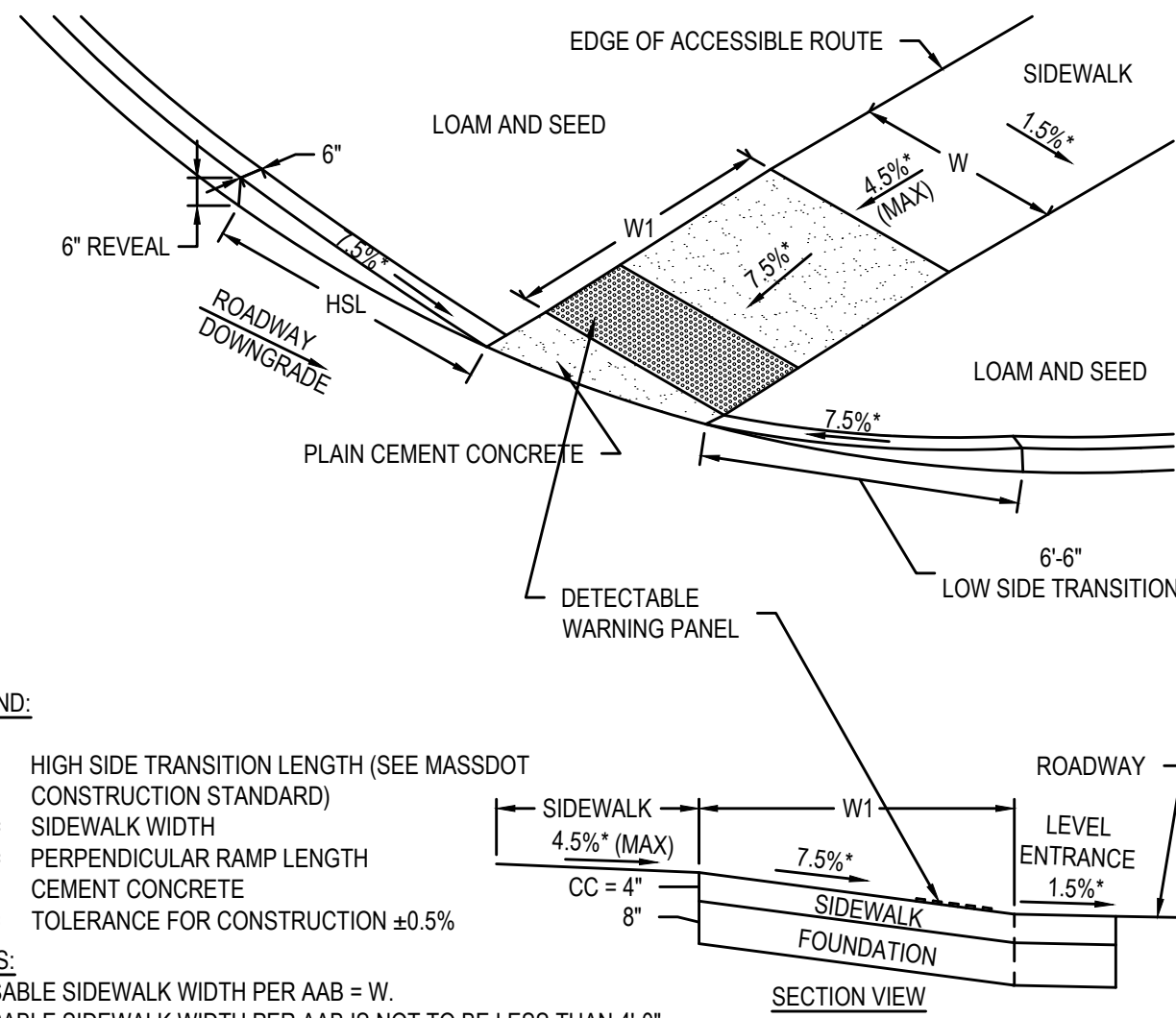


NOTES:

1. ALL SLOPES ARE MAXIMUMS. TOLERANCE FOR CONSTRUCTION $\pm$ 0.5%.
2. DETECTABLE WARNING PANELS TO BE PLACED WHEN MEDIAN OPENING IS 6' OR GREATER IN WIDTH.**

MEDIAN CUT-THROUGH

N.T.S.



LEGEND:

HSL = HIGH SIDE TRANSITION LENGTH (SEE MASSDOT CONSTRUCTION STANDARD)
W = SIDEWALK WIDTH
W1 = PERPENDICULAR RAMP LENGTH
CC = CEMENT CONCRETE
* = TOLERANCE FOR CONSTRUCTION $\pm$ 0.5%

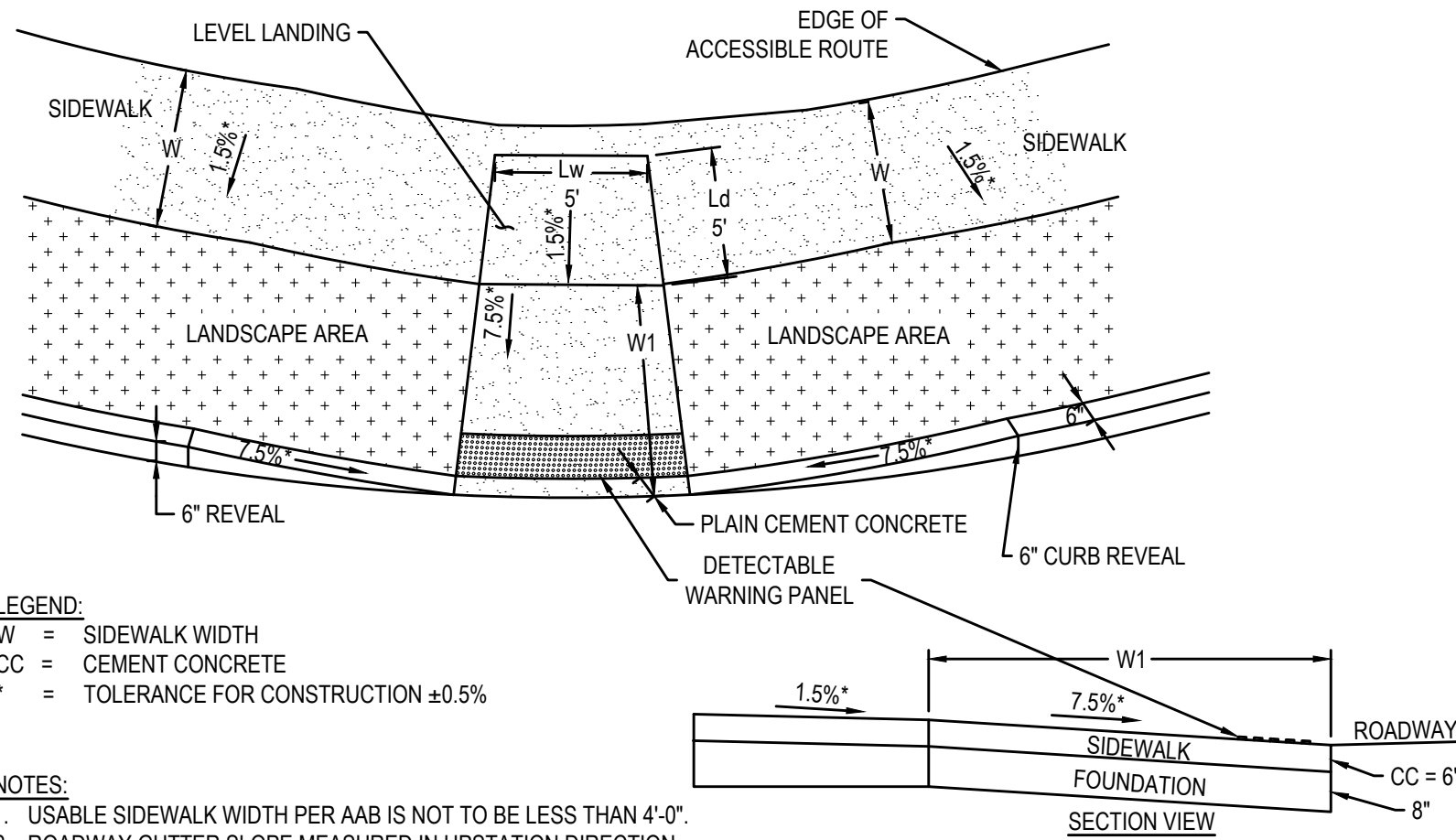
NOTES:

1. USABLE SIDEWALK WIDTH PER AAB = W.
2. USABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'-0".
3. ROADWAY GUTTER SLOPE MEASURED IN UPSTATION DIRECTION.
4. SEE MASSDOT CONSTRUCTION FOR DETECTABLE WARNING PANEL DETAILS.

PEDESTRIAN CURB RAMP - TYPE 2

N.T.S.

PEDESTRIAN CURB RAMP DATA - TYPE 2												
RAMP #	STATION	OFFSET (FT)	LEVEL LANDING (FT)		W1 (FT)	ROADWAY GUTTER SLOPE	LEFT SIDE			RIGHT SIDE		
			WIDTH (Lw)	DEPTH (Ld)			TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)	TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)
LOCATION 3: FRANKLIN ST CONSTRUCTION BASELINE												
2	51+53.32'	17.00' LT	5'-0"	5'-0"	8'-4"	7.02%	-	6"	-	-	6"	-



LEGEND:

W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
* = TOLERANCE FOR CONSTRUCTION $\pm$ 0.5%

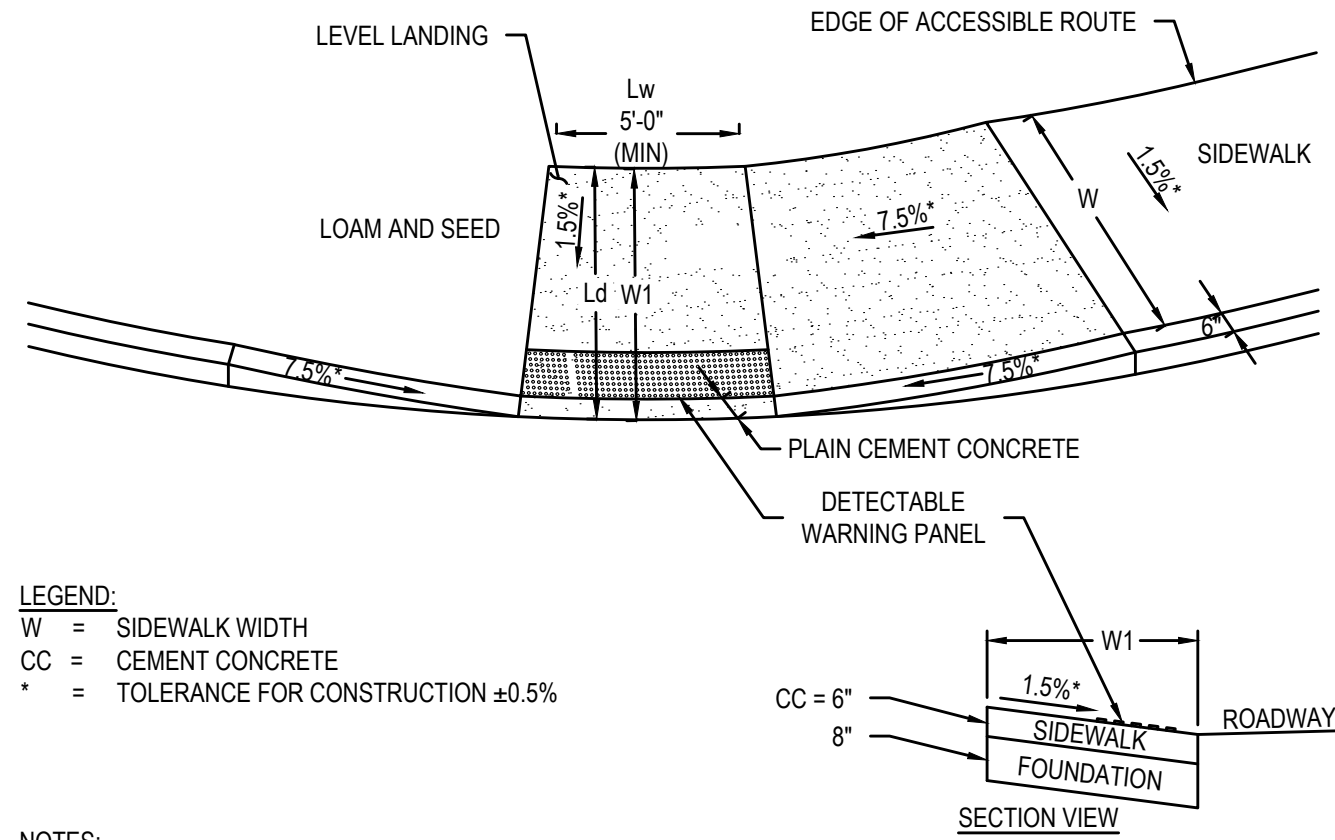
NOTES:

1. USABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'-0".
2. ROADWAY GUTTER SLOPE MEASURED IN UPSTATION DIRECTION.
3. SEE MASSDOT CONSTRUCTION STANDARD FOR DETECTABLE WARNING PANEL DETAILS.

PEDESTRIAN CURB RAMP - TYPE 3

N.T.S.

PEDESTRIAN CURB RAMP DATA - TYPE 3												
RAMP #	STATION	OFFSET (FT)	LEVEL LANDING (FT)		W1 (FT)	ROADWAY GUTTER SLOPE	LEFT SIDE			RIGHT SIDE		
			WIDTH (Lw)	DEPTH (Ld)			TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)	TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)
LOCATION 3: FRANKLIN ST CONSTRUCTION BASELINE												
1	51+53.31'	15.00' RT	5'-0"	5'-0"	8'-4"	-8.28%	-	6"	13'-9.6"	-	6"	11'-9.6"
LOCATION 4: PLEASANT ST CONSTRUCTION BASELINE												
8	100+93.88'	15.00' RT	5'-0"	5'-0"	10'-7"	-3.71%	-	6"	7'-4"	-	6"	7'-4"
LOCATION 15: CAMELOT DR CONSTRUCTION BASELINE												
27	651+20.26'	14.50' LT	5'-0"	5'-0"	5'-9"	-4.38%	-	6"	4'-7.6"	-	6"	4'-8.4"

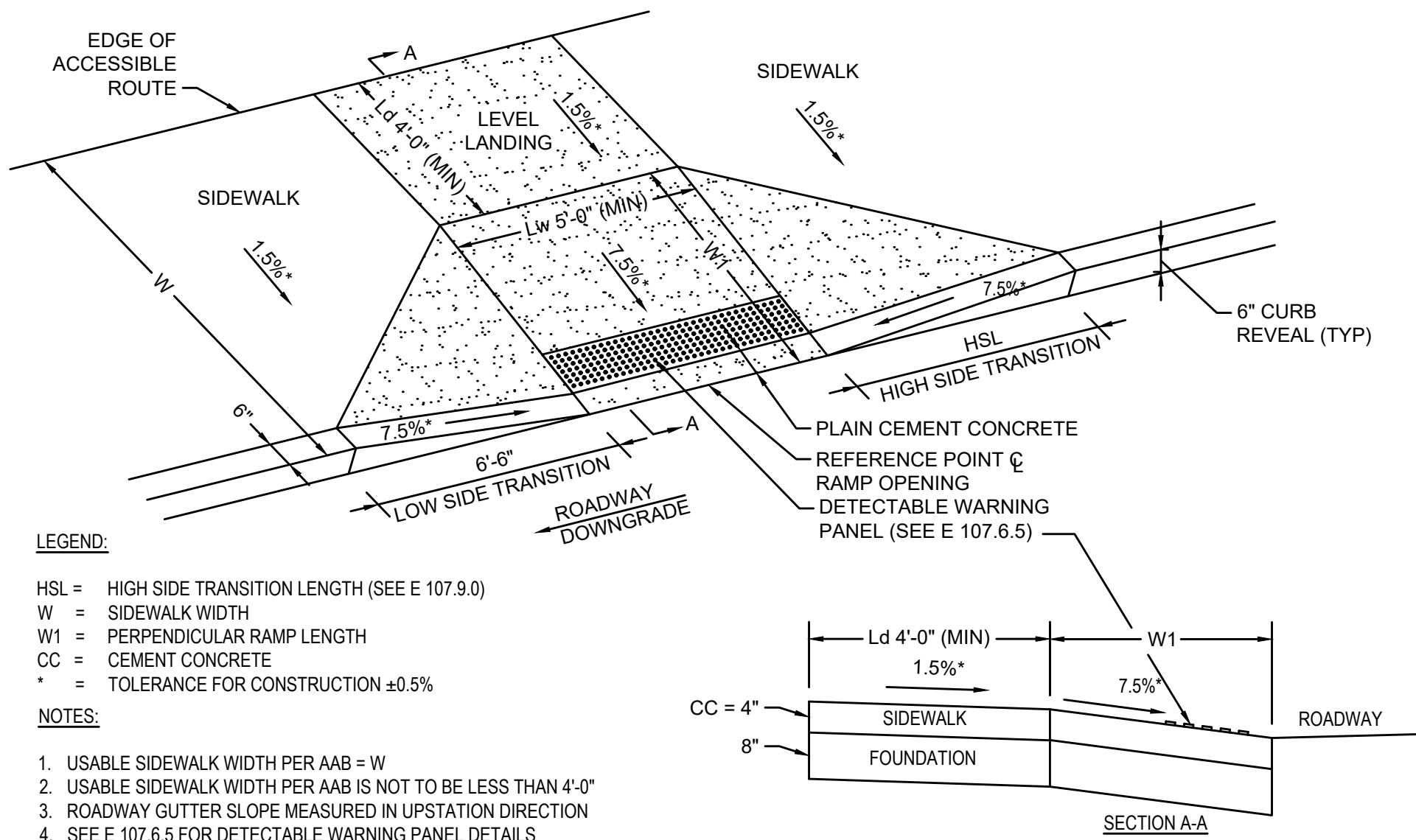


LEGEND:
W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
* = TOLERANCE FOR CONSTRUCTION ±0.5%

NOTES:
1. USABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'-0".
2. ROADWAY GUTTER SLOPE MEASURED IN UPSTATION DIRECTION.
3. SEE MASSDOT CONSTRUCTION FOR DETECTABLE WARNING PANEL DETAILS.

PEDESTRIAN CURB RAMP - TYPE 4
N.T.S.

PEDESTRIAN CURB RAMP DATA - TYPE 4												
RAMP #	STATION	OFFSET (FT)	LEVEL LANDING (FT)		W1 (FT)	ROADWAY GUTTER SLOPE	LEFT SIDE			RIGHT SIDE		
			WIDTH (Lw)	DEPTH (Ld)			TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)	TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)
LOCATION 3: NORFOLK ST CONSTRUCTION BASELINE												
6	52+34.85'	15.00' LT	5'-0"	6'-9"	6'-9"	-10.77%	-	6"	-	15'-0"	6"	8'-10"



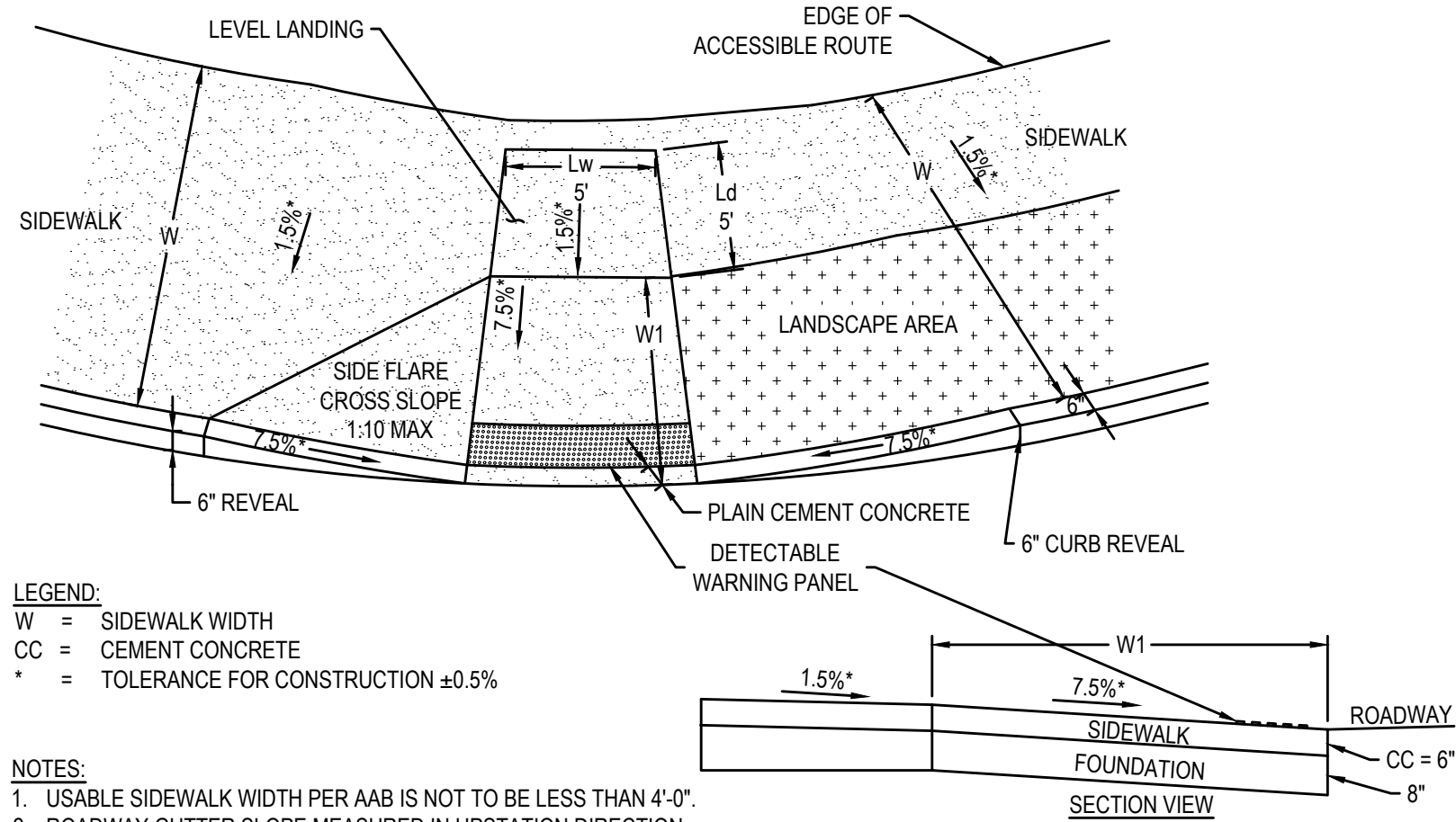
LEGEND:

HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.9.0)
W = SIDEWALK WIDTH
W1 = PERPENDICULAR RAMP LENGTH
CC = CEMENT CONCRETE
* = TOLERANCE FOR CONSTRUCTION ±0.5%

NOTES:
1. USABLE SIDEWALK WIDTH PER AAB = W
2. USABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'-0".
3. ROADWAY GUTTER SLOPE MEASURED IN UPSTATION DIRECTION
4. SEE E 107.6.5 FOR DETECTABLE WARNING PANEL DETAILS

WHEELCHAIR RAMP TYPE 7
N.T.S.

PEDESTRIAN CURB RAMP DATA - TYPE 7												
RAMP #	STATION	OFFSET (FT)	LEVEL LANDING (FT)		W1 (FT)	ROADWAY GUTTER SLOPE	LEFT SIDE			RIGHT SIDE		
			WIDTH (Lw)	DEPTH (Ld)			TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)	TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)
LOCATION 4: PLEASANT ST CONSTRUCTION BASELINE												
7	100+94.00'	15.00' LT	5'-0"	5'-0"	8'-4"	3.26%	6'-6"	6"	16'-2.2"	7'-0"	3"	16'-2.2"
LOCATION 4: TIVERTON PKWY CONSTRUCTION BASELINE												
9	110+24.86'	18.94' LT	5'-0"	5'-0"	8'-4"	3.88%	14'-0"	6"	16'-2.2"	14'-0"	6"	9'-7.8"
10	110+16.85'	16.85' RT	5'-0"	5'-0"	4'-2"	-4.81%	7'-5"	3"	12'-8"	3'-3"	3"	12'-4.8"
LOCATION 13: SOUTHBRIDGE ST CONSTRUCTION BASELINE												
25	551+58.17'	19.00' LT	5'-0"	5'-0"	8'-4"	-0.67%	9'-0"	6"	12'-10"	6'-6"	6"	12'-10"

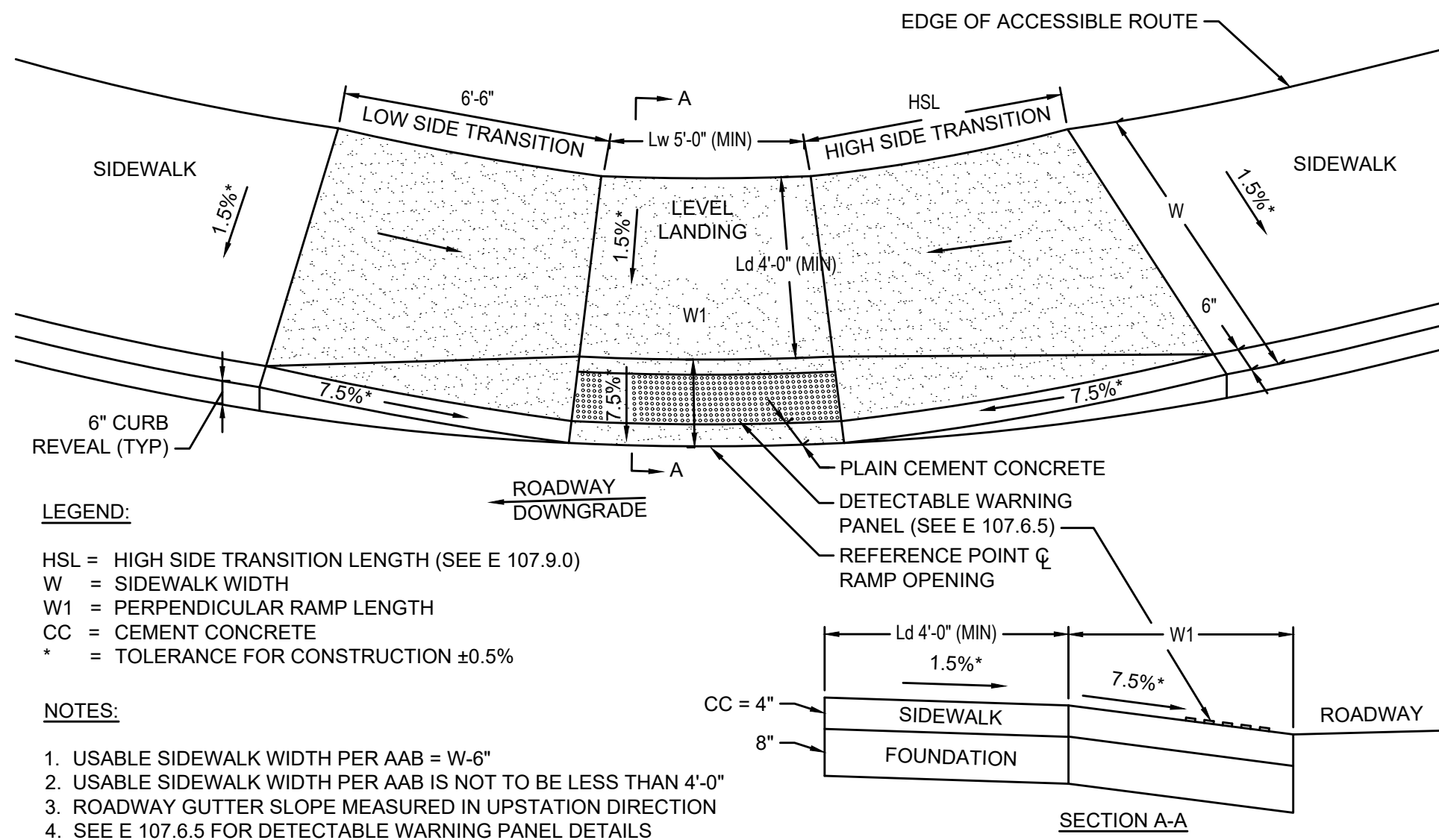


LEGEND:
W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
* = TOLERANCE FOR CONSTRUCTION ±0.5%

NOTES:
1. USABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'-0".
2. ROADWAY GUTTER SLOPE MEASURED IN UPSTATION DIRECTION.
3. SEE MASSDOT CONSTRUCTION STANDARD FOR DETECTABLE WARNING PANEL DETAILS.

PEDESTRIAN CURB RAMP - TYPE 5
N.T.S.

PEDESTRIAN CURB RAMP DATA - TYPE 5												
RAMP #	STATION	OFFSET (FT)	LEVEL LANDING (FT)		W1 (FT)	ROADWAY GUTTER SLOPE	LEFT SIDE			RIGHT SIDE		
			WIDTH (Lw)	DEPTH (Ld)			TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)	TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)
LOCATION 3: SUFFOLK ST CONSTRUCTION BASELINE												
3	60+84.63'	16.35' LT	5'-0"	5'-0"	8'-3.7"	-2.11%	15'-0"	6"	13'-10"	-	6"	14'-0"



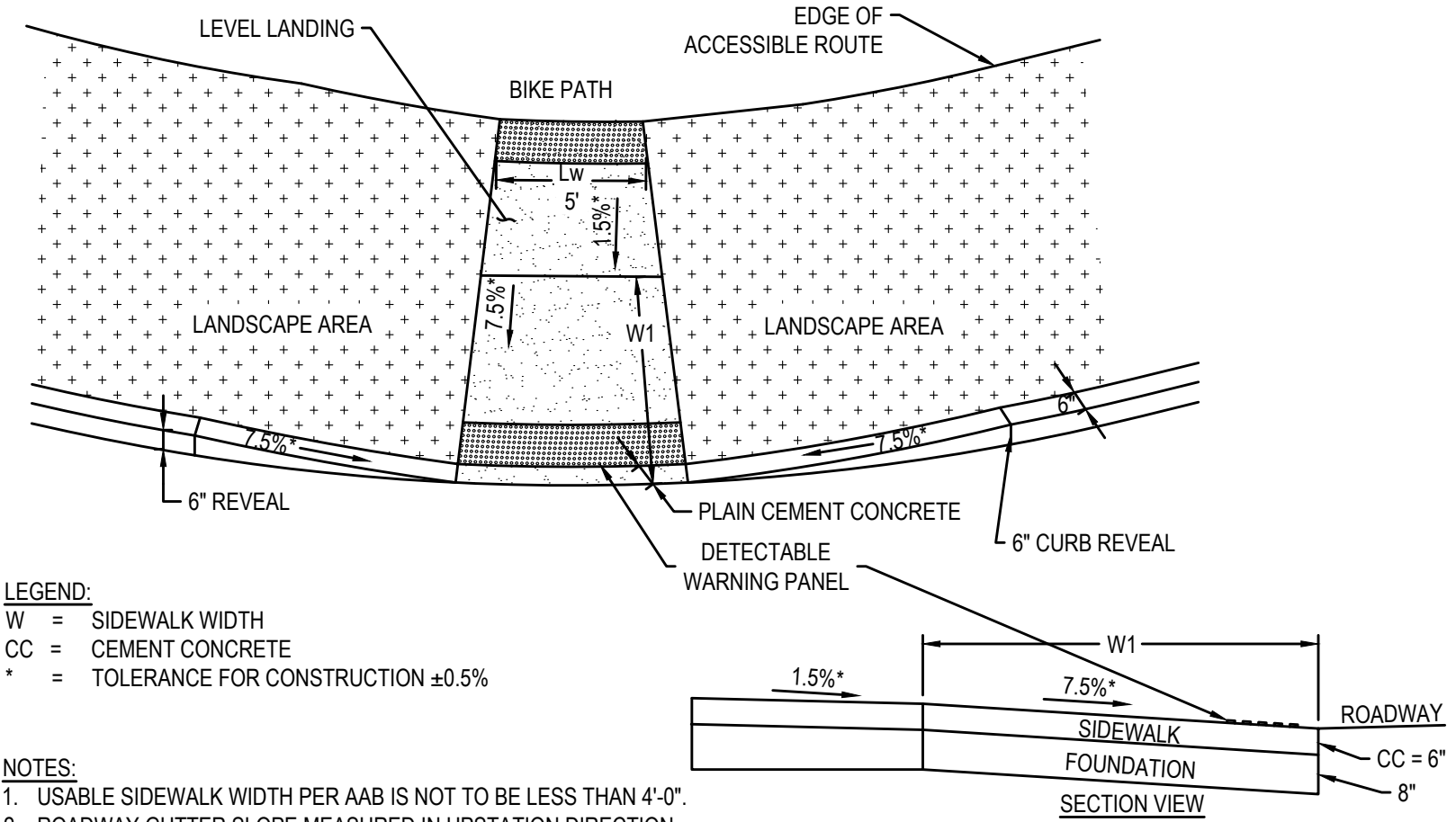
LEGEND:

HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.9.0)
W = SIDEWALK WIDTH
W1 = PERPENDICULAR RAMP LENGTH
CC = CEMENT CONCRETE
* = TOLERANCE FOR CONSTRUCTION ±0.5%

NOTES:
1. USABLE SIDEWALK WIDTH PER AAB = W-6"
2. USABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'-0".
3. ROADWAY GUTTER SLOPE MEASURED IN UPSTATION DIRECTION
4. SEE E 107.6.5 FOR DETECTABLE WARNING PANEL DETAILS

WHEELCHAIR RAMP TYPE 8
N.T.S.

PEDESTRIAN CURB RAMP DATA - TYPE 8												
RAMP #	STATION	OFFSET (FT)	LEVEL LANDING (FT)		W1 (FT)	ROADWAY GUTTER SLOPE	LEFT SIDE			RIGHT SIDE		
			WIDTH (Lw)	DEPTH (Ld)			TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)	TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)
LOCATION 7: PLEASANT ST CONSTRUCTION BASELINE												
11	250+55.39'	19.00' LT	5'-0"	5'-0.4"	4'-8.4"	7.28%	6'-6"	6"	9'-2.4"	7'-6"	3"	8'-5.6"
16	251+19.65'	14.47' LT	5'-0"	5'-0"	7'-7.6"	7.21%	6'-6"	6"	12'-1.8"	15'-0"	6"	9'-1.6"
LOCATION 11: SHREWSBURY ST CONSTRUCTION BASELINE												
23	452+65.84'	30.44' LT	5'-0"	5'-0"	4'-11"	0.31%	6'-6"	6"	9'-5.6"	7'-8"	6"	9'-5.6"
24	452+65.84'	28.47' RT	5'-0"	5'-0"	4'-8.4"	-1.30%	7'-8"	6"	9'-4"	6'-6"	6"	9'-1"
LOCATION 13: SOUTHBRIDGE ST CONSTRUCTION BASELINE												
26	551+58.02'	22.00' RT	5'-0"	5'-0"	5'-6"	0.77%	6'-6"	6"	10'-6"	9'-0"	6"	10'-3"

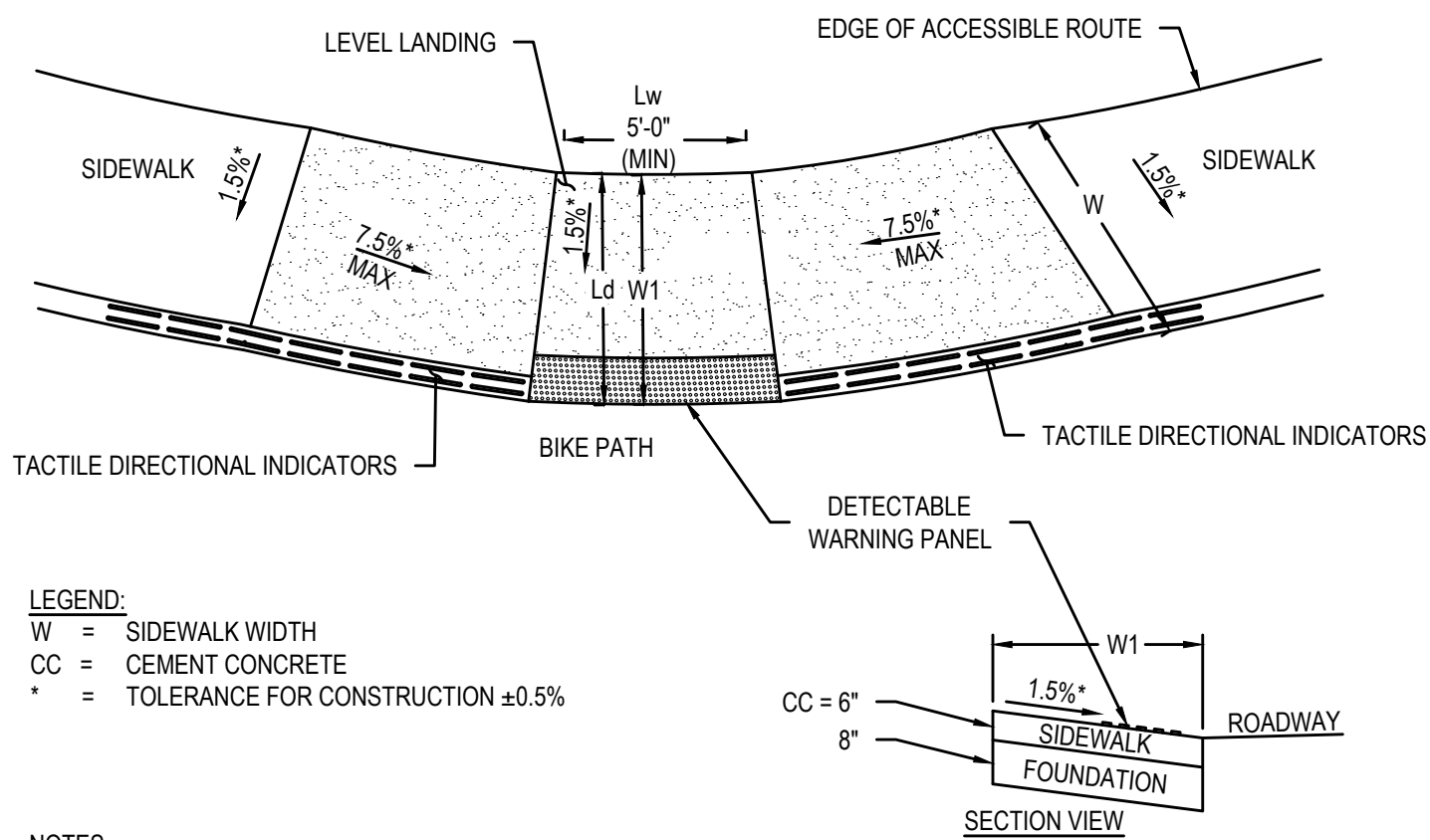


LEGEND:
W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
* = TOLERANCE FOR CONSTRUCTION ±0.5%

NOTES:
1. USABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'-0".
2. ROADWAY GUTTER SLOPE MEASURED IN UPSTATION DIRECTION.
3. SEE MASSDOT CONSTRUCTION STANDARD FOR DETECTABLE WARNING PANEL DETAILS.

PEDESTRIAN CURB RAMP - TYPE 6
N.T.S.

PEDESTRIAN CURB RAMP DATA - TYPE 6												
RAMP #	STATION	OFFSET (FT)	LEVEL LANDING (FT)		W1 (FT)	ROADWAY GUTTER SLOPE	LEFT SIDE			RIGHT SIDE		
			WIDTH (Lw)	DEPTH (Ld)			TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)	TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)
LOCATION 10: MILL ST CONSTRUCTION BASELINE												
20	401+17.38'	25.00' LT	5'-0"	5'-0"	3'-6"	-0.72%	-	6"	-	-	6"	-
21	401+17.47'	25.00' RT	5'-0"	5'-0"	3'-6"	0.31%	-	6"	-	-	6"	-



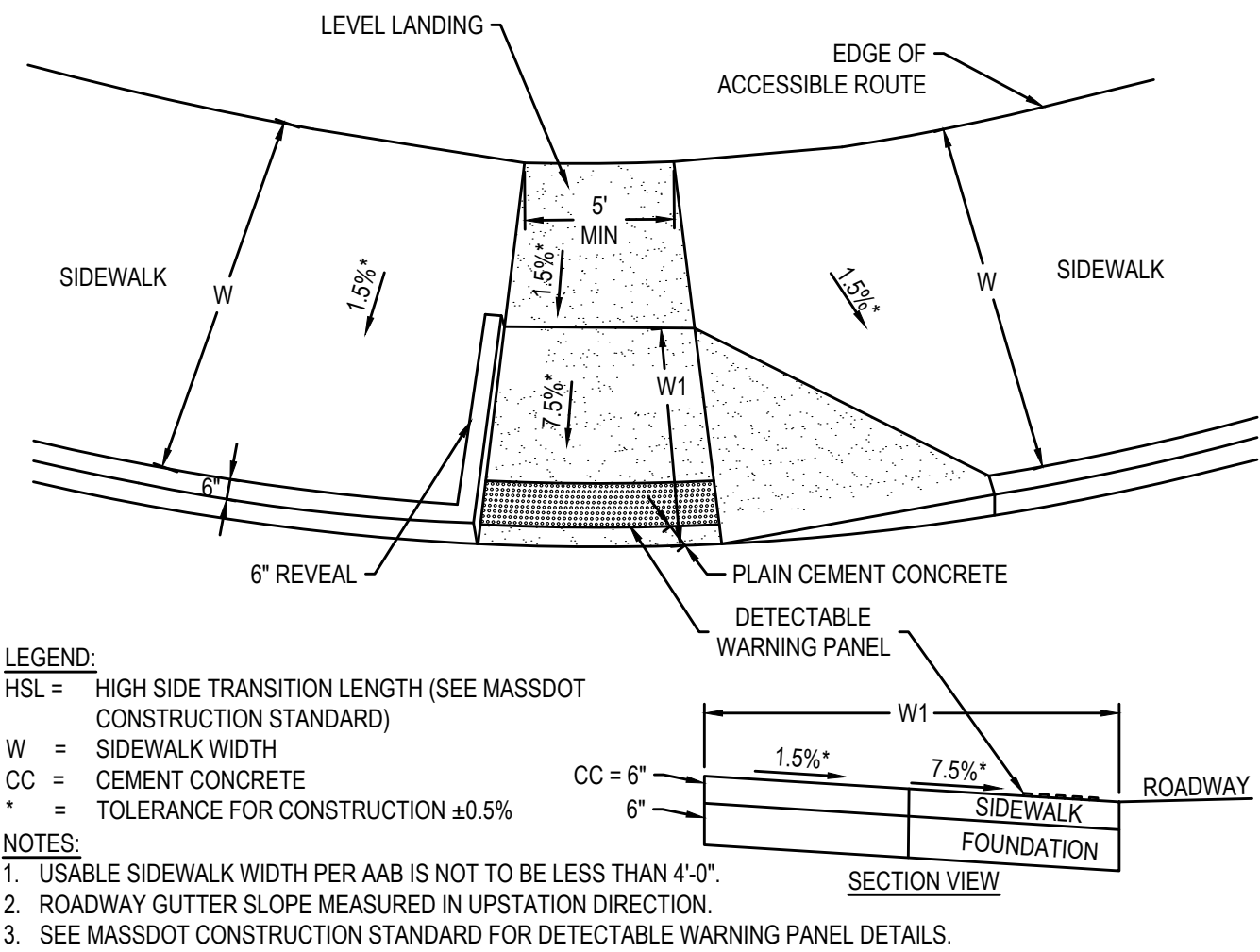
LEGEND:

W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
* = TOLERANCE FOR CONSTRUCTION ±0.5%

NOTES:
1. USABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'-0".
2. ROADWAY GUTTER SLOPE MEASURED IN UPSTATION DIRECTION.
3. SEE MASSDOT CONSTRUCTION FOR DETECTABLE WARNING PANEL DETAILS.

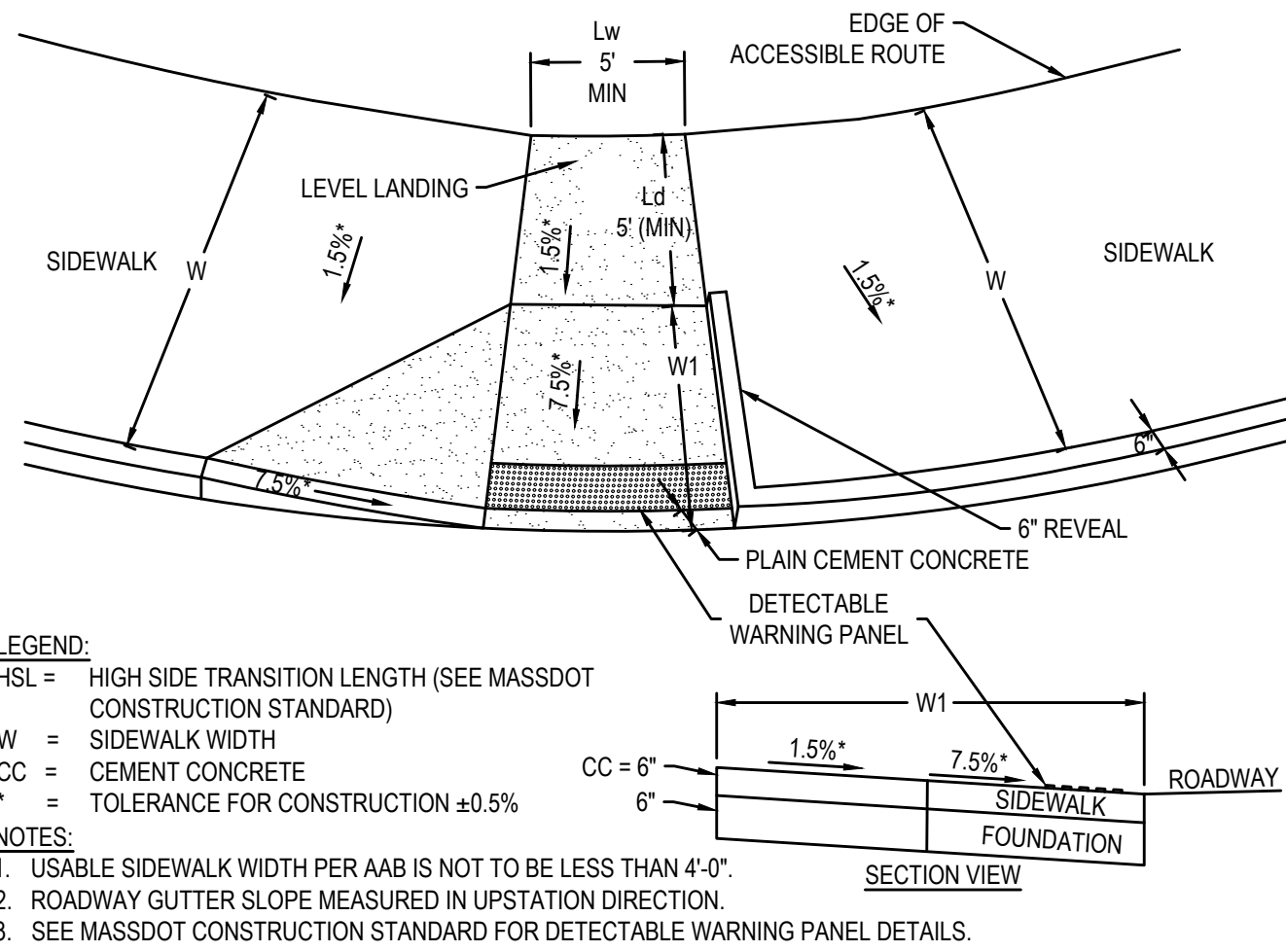
PEDESTRIAN CURB RAMP - TYPE 9
N.T.S.

PEDESTRIAN CURB RAMP DATA - TYPE 9												
RAMP #	STATION	OFFSET (FT)	LEVEL LANDING (FT)		W1 (FT)	ROADWAY GUTTER SLOPE	LEFT SIDE			RIGHT SIDE		
			WIDT H (Lw)	DEPTH (Ld)			TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)	TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)
			LOCATION 4: PLEASANT ST CONSTRUCTION BASELINE									
22	401+17.46'	38.50' RT	5'-0"	6'-0"	6'-0"	0.44%	6'-6"	-	16'-1"	6'-6"	-	16'-3"



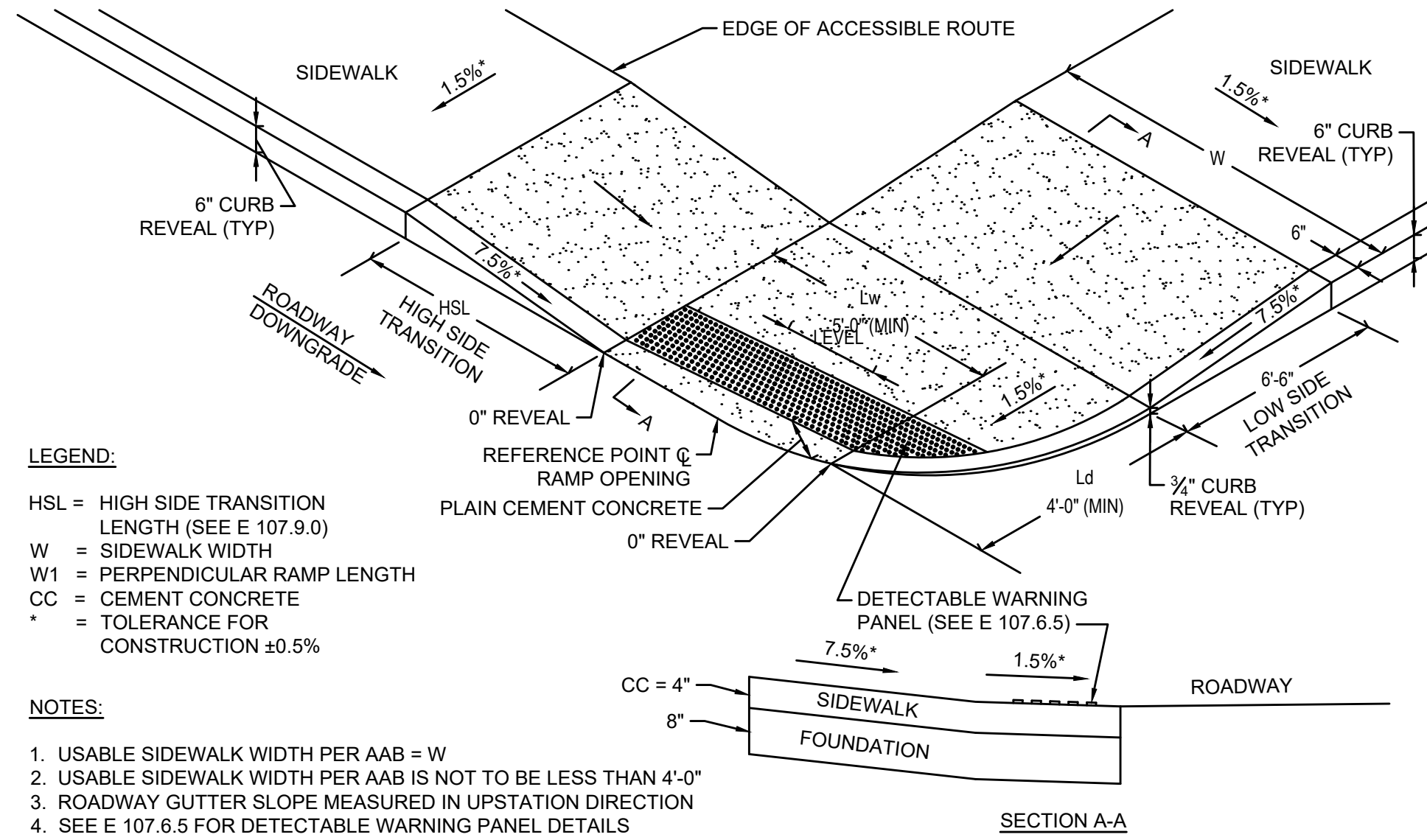
PEDESTRIAN CURB RAMP - TYPE 10
N.T.S.

PEDESTRIAN CURB RAMP DATA - TYPE 10												
RAMP #	STATION	OFFSET (FT)	LEVEL LANDING (FT)		W1 (FT)	ROADWAY GUTTER SLOPE	LEFT SIDE			RIGHT SIDE		
			WIDTH (Lw)	DEPTH (Ld)			TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)	TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)
LOCATION 7: PLEASANT ST CONSTRUCTION BASELINE												
12	250+54.83'	13.00' RT	5'-0"	5'-0"	8'-4"	-7.11%	-	6"	-	6'-6"	6"	14'-5"



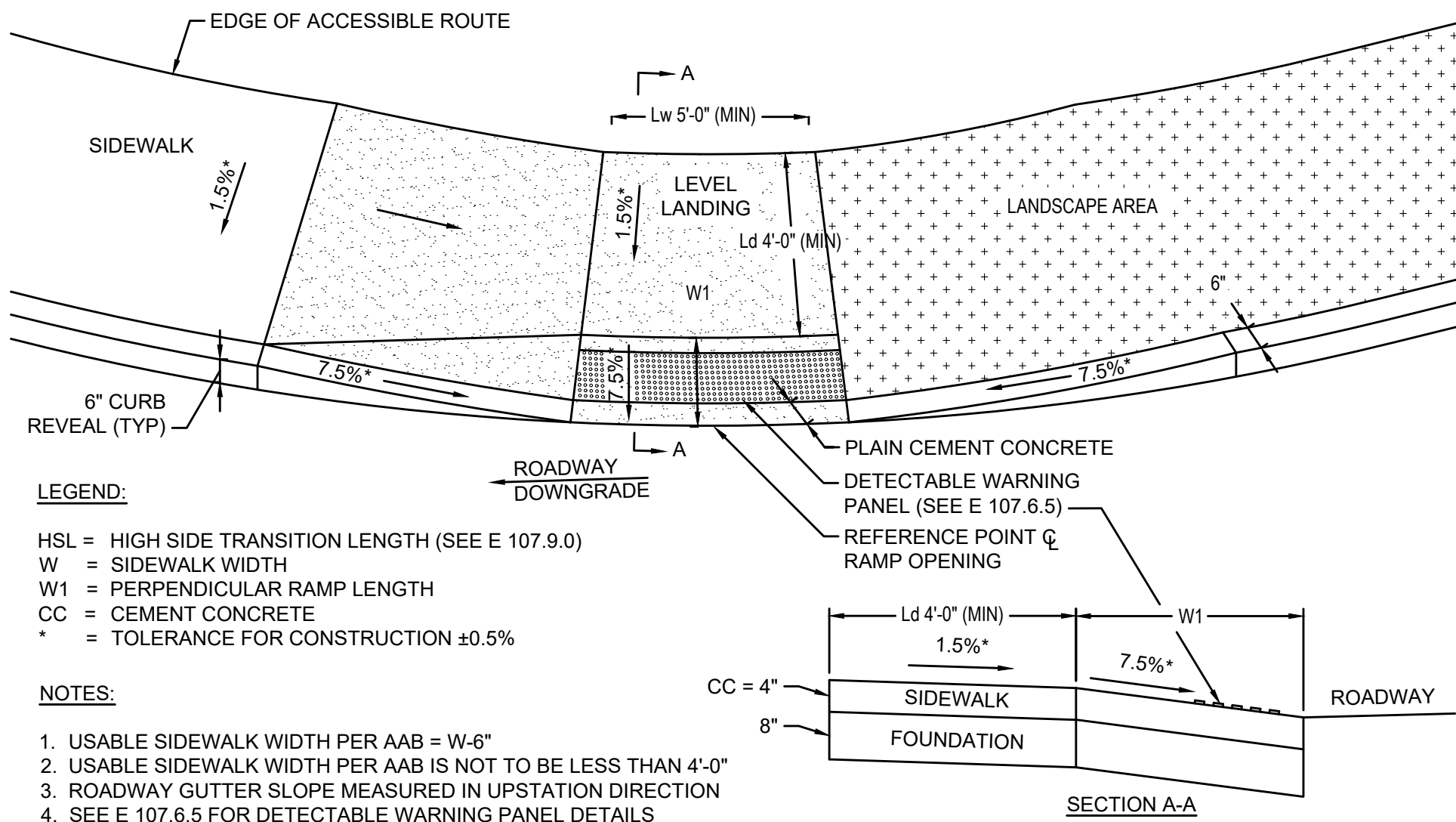
PEDESTRIAN CURB RAMP - TYPE 13
N.T.S.

PEDESTRIAN CURB RAMP DATA - TYPE 13												
RAMP #	STATION	OFFSET (FT)	LEVEL LANDING (FT)		W1 (FT)	ROADWAY GUTTER SLOPE	LEFT SIDE			RIGHT SIDE		
			WIDTH (Lw)	DEPTH (Ld)			TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)	TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)
LOCATION 7: NEWBURY ST CONSTRUCTION BASELINE												
13	260+52.46'	13.00' LT	5'-0"	5'-0"	8'-4"	3.83%	6'-6"	6"	12'-7.8"	-	6"	-



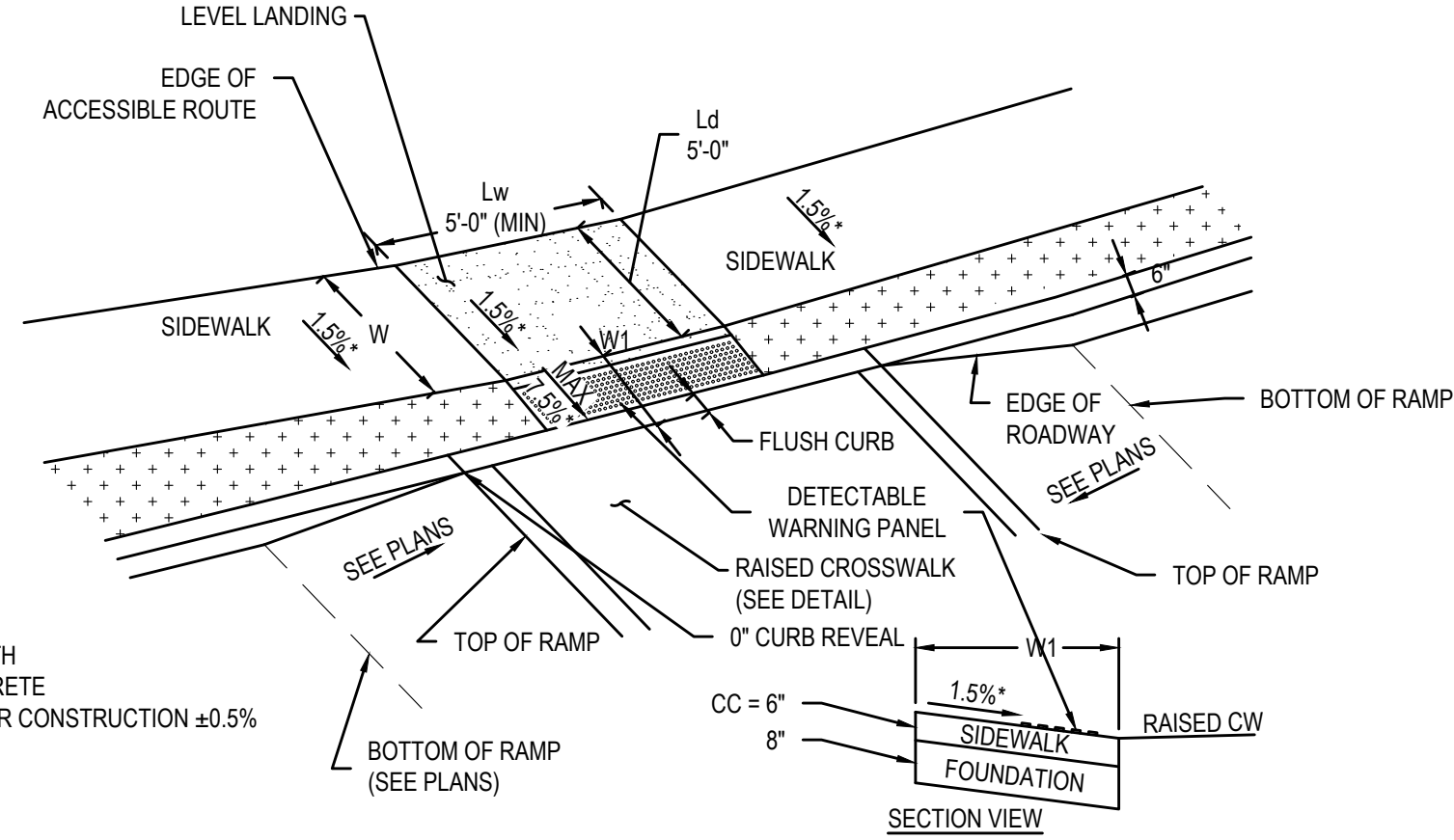
WHEELCHAIR RAMP TYPE 11
N.T.S.

PEDESTRIAN CURB RAMP DATA - TYPE 11												
RAMP #	STATION	OFFSET (FT)	LEVEL LANDING (FT)		LEFT SIDE				RIGHT SIDE			
			WIDTH (Lw)	DEPTH (Ld)	ROADWAY GUTTER SLOPE	TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)	ROADWAY GUTTER SLOPE	TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)
LOCATION 7: NEWBURY ST CONSTRUCTION BASELINE												
14	260+55.43'	12.33' RT	3'-9.6"	7'-1.2"	-8.96%	7'-6"	3"	7'-2.4"	-5.82%	6'-6"	6"	8'-3"



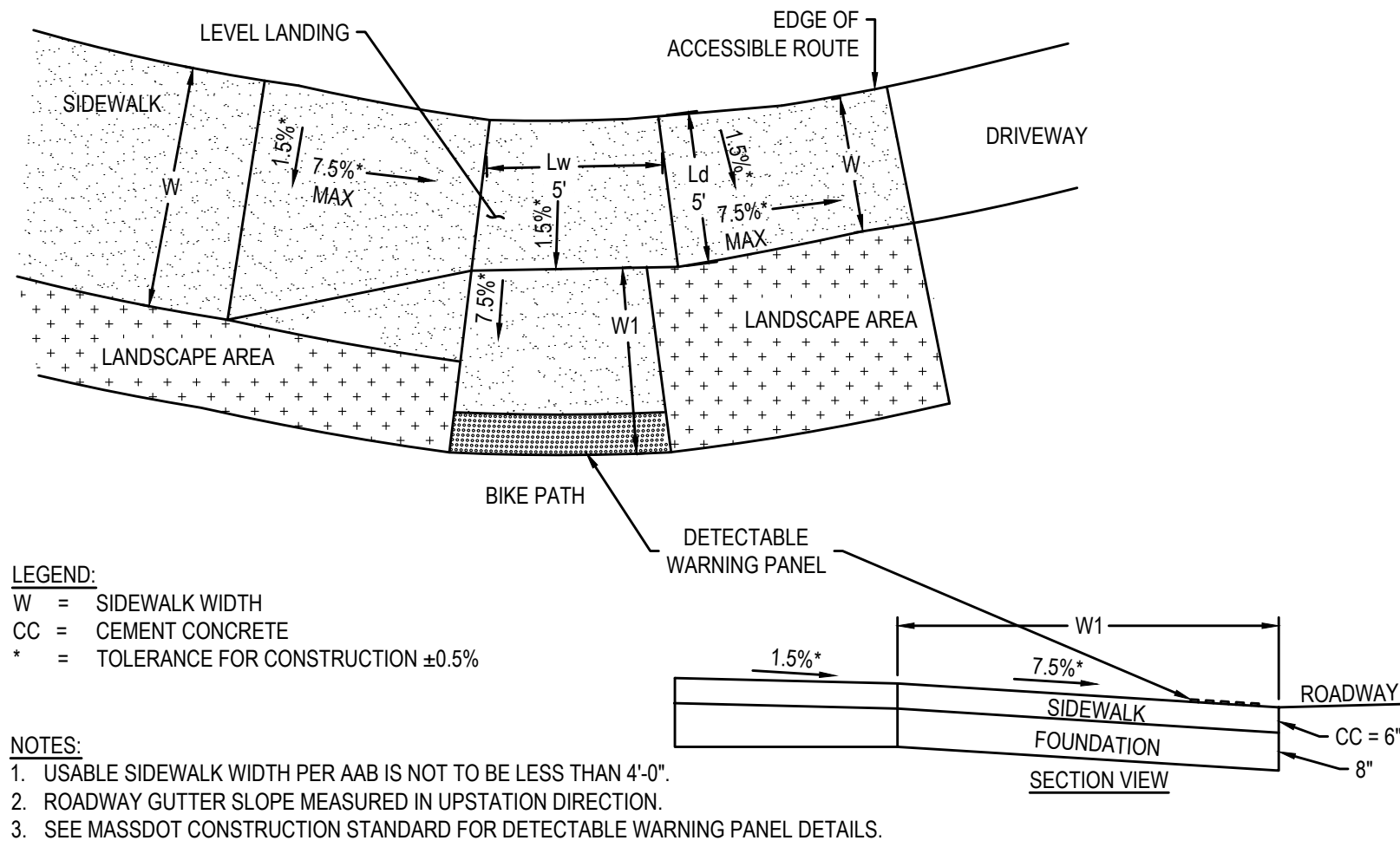
WHEELCHAIR RAMP TYPE 14
N.T.S.

PEDESTRIAN CURB RAMP DATA - TYPE 14												
RAMP #	STATION	OFFSET (FT)	LEVEL LANDING (FT)		W1 (FT)	ROADWAY GUTTER SLOPE	LEFT SIDE			RIGHT SIDE		
			WIDTH (Lw)	DEPTH (Ld)			TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)	TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)
LOCATION 15: CAMELOT DR CONSTRUCTION BASELINE												
28	651+20.60'	16.00' RT	5'-0"	5'-0"	3'-3"	4.35%	6'-6"	6"	7'-9.5"	-	6"	-



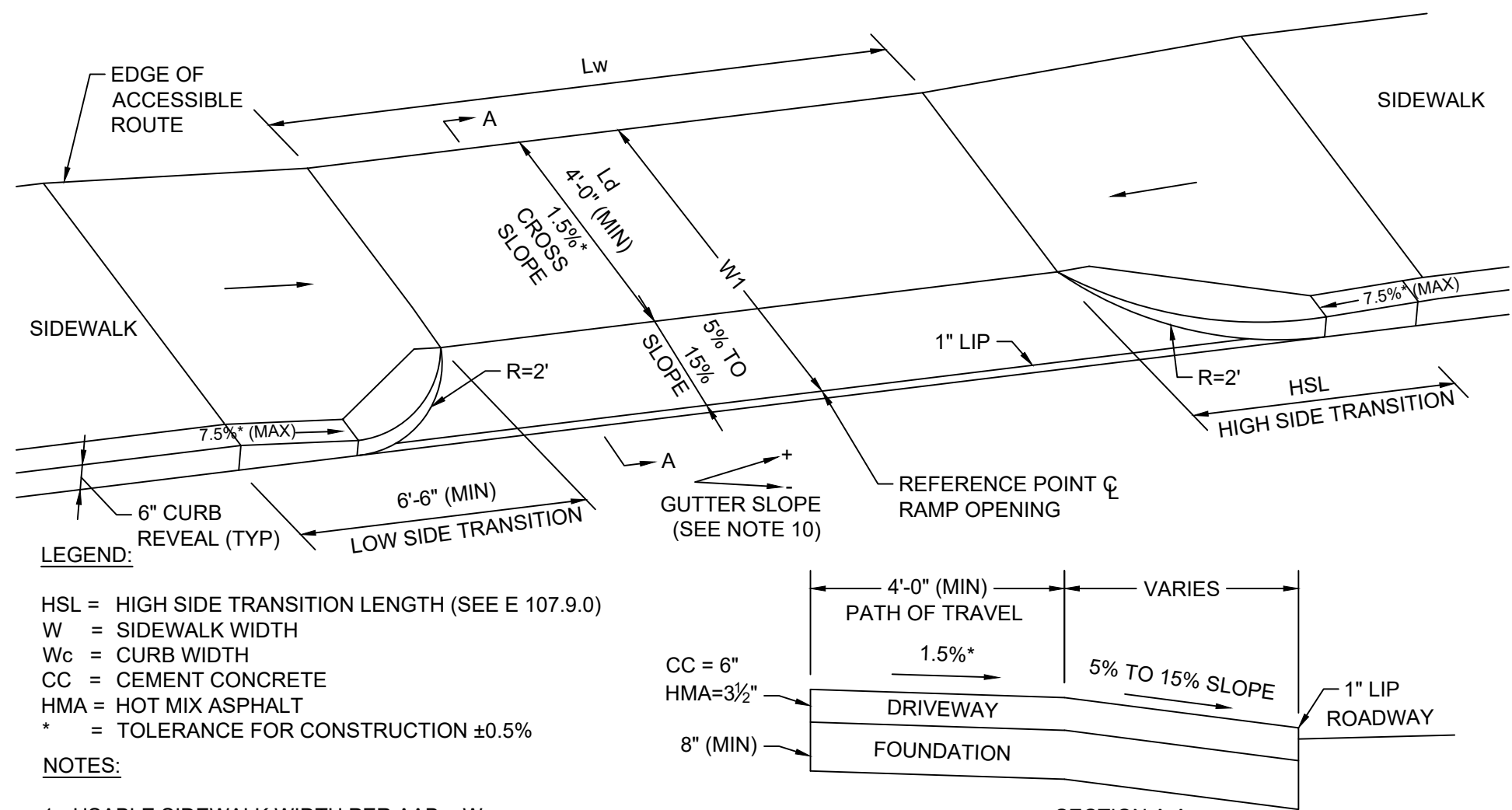
PEDESTRIAN CURB RAMP - TYPE 12
N.T.S.

PEDESTRIAN CURB RAMP DATA - TYPE 12												
RAMP #	STATION	OFFSET (FT)	LEVEL LANDING (FT)		W1 (FT)	ROADWAY GUTTER SLOPE	LEFT SIDE			RIGHT SIDE		
			WIDTH (Lw)	DEPTH (Ld)			TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)	TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)
LOCATION 16: MANN ST CONSTRUCTION BASELINE												
29	700+96.25'	14.50' LT	5'-0"	5'-0"	4'-0"	0.54%	6'-6"	6"	5'-0"	7'-8"	6"	5'-0"
30	700+96.25'	14.50' RT	5'-0"	5'-6"	2'-6"	-0.54%	7'-8"	6"	5'-6"	6'-6"	6"	5'-6"
32	704+02.43'	14.00' RT	5'-0"	5'-0"	2'-6"	0.00%	6'-6"	6"	5'-3"	7'-8"	6"	5'-3"



PEDESTRIAN CURB RAMP - TYPE 15
N.T.S.

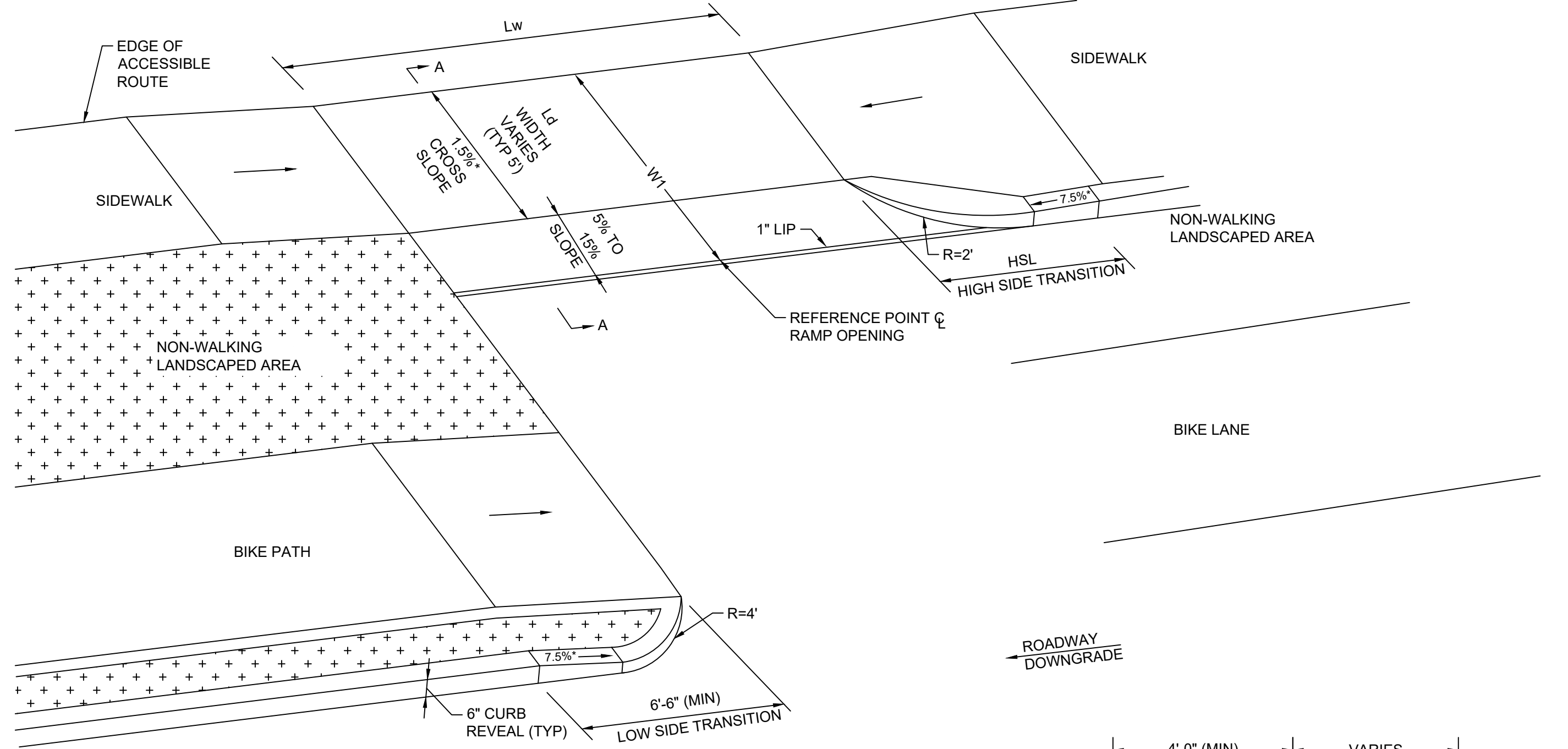
PEDESTRIAN CURB RAMP DATA - TYPE 15												
RAMP #	STATION	OFFSET (FT)	LEVEL LANDING (FT)		W1 (FT)	ROADWAY GUTTER SLOPE	LEFT SIDE			RIGHT SIDE		
			WIDTH (Lw)	DEPTH (Ld)			TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)	TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)
LOCATION 10: MILL ST CONSTRUCTION BASELINE												
19	401+17.44'	38.50' LT	8'-6"	5'-0"	7'-0"	0.67%	6'-6"	-	7'-3"	6'-6"	-	5'-0"



SIDEWALK THROUGH DRIVEWAY TYPE 1

N.T.S.

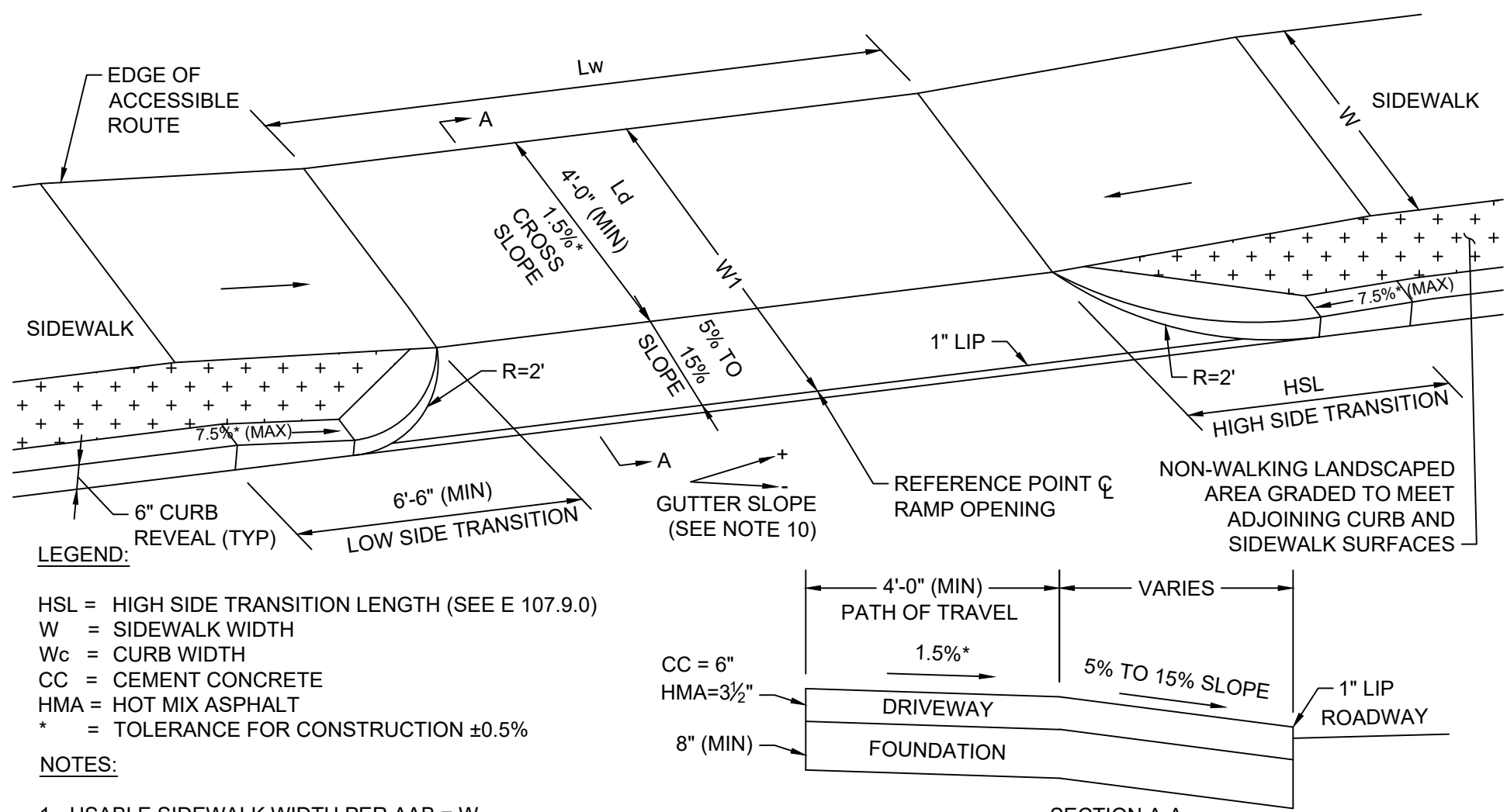
SIDEWALK THROUGH DRIVEWAY - TYPE 1												
DWY #	STATION	OFFSET (FT)	ACCESSIBLE ROUTE (FT)		W1 (FT)	ROADWAY GUTTER SLOPE	LEFT SIDE			RIGHT SIDE		
			WIDTH (Lw)	MIN DEPTH (Ld)			TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)	TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)
LOCATION 3: SUFFOLK ST CONSTRUCTION BASELINE												
1	60+38.92'	16.50' LT	40'-0"	5'-10"	9'-8"	-4.05%	6'-6"	6"	11'-5.5"	15'-0"	6"	7'-4.4"
LOCATION 3: NORFOLK ST CONSTRUCTION BASELINE												
2	52+89.17'	18.35' RT	20'-9"	6'-2"	8'-0"	14.83%	6'-6"	6"	7'-8.5"	15'-0"	6"	8'-1"
3	52+76.08'	15.67' LT	22'-9"	6'-0"	8'-4"	15.37%	6'-6"	6"	8'-1.9"	15'-0"	6"	7'-3.6"



SIDEWALK THROUGH DRIVEWAY TYPE 3

N.T.S.

SIDEWALK THROUGH DRIVEWAY - TYPE 3												
DWY #	STATION	OFFSET (FT)	ACCESSIBLE ROUTE (FT)		W1 (FT)	ROADWAY GUTTER SLOPE	LEFT SIDE			RIGHT SIDE		
			WIDTH (Lw)	MIN DEPTH (Ld)			TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)	TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)
LOCATION 3: FRANKLIN ST CONSTRUCTION BASELINE												
5	401+40.46'	42.00' LT	21'-0"	5'-0"	8'-6"	-0.89%	6'-6"	6"	5'-0"	7'-8"	6"	5'-0"



SIDEWALK THROUGH DRIVEWAY TYPE 2

N.T.S.

SIDEWALK THROUGH DRIVEWAY - TYPE 2												
DWY #	STATION	OFFSET (FT)	ACCESSIBLE ROUTE (FT)		W1 (FT)	ROADWAY GUTTER SLOPE	LEFT SIDE			RIGHT SIDE		
			WIDTH (Lw)	MIN DEPTH (Ld)			TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)	TRANSITION LENGTH (FT)	CURB REVEAL (IN)	SIDEWALK WIDTH (FT)
LOCATION 3: FRANKLIN ST CONSTRUCTION BASELINE												
4	51+01.25'	15.00' LT	30'-0"	5'-0"	15'-6"	7.12%	6'-6"	6"	5'-0"	15'-0"	6"	5'-0"