



October 2, 2026

To All Bidders:

Subject: **Bid #: 8809-W7, Complete Street Improvements – Various Locations / DTM**

ADDENDUM NO. 2

To Whom It May Concern:

With reference to our bid request relative to the above subject, please refer to the changes/modifications/clarifications to the original request.

- **BID DUE DATE HAS BEEN EXTENDED TO FRIDAY, OCTOBER 9, 2026 AT 10:00 AM**
- **ADDITIONAL GENERAL BID CLARIFICATIONS INCLUDING QUESTIONS RECEIVED AND RESPONSES FROM CITY ARE INCLUDED BELOW AND IN THE ATTACHMENTS TO THIS ADDENDUM # 2.**
- **This addendum includes new special provisions and an attached bid tab that shall replace the bid tab included in the original special conditions, all other requirements in the special conditions are to remain.**

This addendum includes updated plan sheets that shall replace the specific sheets noted in the plan set, all other sheets are to remain. This addendum includes supplemental drainage invert information that may be used for informational purposes: All existing inverts shall be verified, and necessary test pits shall be conducted prior to the finalization of drainage structure inverts by the engineer for new drainage structures.

Bidders are requested to acknowledge and/or include this addendum with submission. All other terms, conditions and specifications remain unchanged.

Very truly yours

Christopher J. Gagliastro
Purchasing Director

Bid #: 8809-W7, Complete Street Improvements – Various Locations

The bid form contains Item 120 Class “B” Rock Excavation and Disposal and Item 121 Trench Rock Excavation and Disposal.

The City Specifications for Item 121 state that “The work to be done under this item shall conform to the applicable provisions of Section 140, (MSSHB), it shall include the removal and disposal of both Class "A" and Class "B" rock encountered during trench excavation.”

Which item will be used to excavate and dispose Class B trench rock encountered in the excavation for drainage structures and pipe? It appears that Item 120 being included in addition to Item 121 is redundant.

Per the 2026 Worcester standard specifications for Items 240., 241., and 241.1 the cost for Class B rock excavation and disposal for these structures will be paid under item 120.

Per the 2026 Worcester standard specifications for Items 230.5, 231.5 and cost for Class B rock excavation and disposal for these structures will be paid under item 121. Also as noted above Class A and B rock encountered during trench excavation such as for pipes will also be paid under item 121.

Please provide the RIM and INV elevations so the bidders may have a better understanding of the depth of the proposed drainage and prepare their bids accordingly.

Rim and invert elevations are provided in Addendum 2 to the extent available.
Contractor will be responsible for verifying existing inverts and performing test pits as necessary.

The catch basin connections are shown on the plans as 12” diameter. The City typically uses 8” diameter pipe for catch basin connections.

Please confirm.

12” catch basin connections (item 225.12) are correct.

The proposed drainage at Location #4 calls for 10 DI pipe.

The bid item list contains Item 301.1 10” Zinc Coated CLDI Pipe.

Does the 10” DI drainage pipe need to be zinc coated?

Yes, Per the 2026 Worcester standard specifications for Item 301.1 the exterior of the ductile iron pipe shall be coated with a layer of arc-sprayed zinc

There is a hydrant to be relocated at Location #3.

Will a new tee be installed as part of the relocation?

If so, please provide the size and type of the existing water main and how the contractor will be paid to cut in the tee.

Plans have been updated to remove the hydrant relocation, see Addendum 2

Will the HMA patching above the concrete curb lock be paid under Item 424?

No, the HMA above the curb lock on the roadway side of proposed curb will be paid for under items 422.1 and 422.2. See pavement notes for Proposed Full Depth Pavement Less Than 4’ Wide on plan Sheet 3.

Will the HMA patching behind the concrete sidewalk and driveway aprons be paid under Item 424?

Yes, HMA for driveways and patching parking areas behind the sidewalk will be paid for under Item 424.

Sheet 34 – Construction Details 1 of 7.

The Longitudinal Section shows granite curb installed across the roadway perpendicular to the gutter line.

Will the Contractor be allowed to close the roadway until the concrete curb lock has cured and the raised crosswalk has been paved?

The Contractor shall not close the roadway to through traffic except as approved in writing by the Engineer. Construction of the raised crosswalk and curb lock shall be

staged so that one travel lane is open to traffic at all times, with traffic controlled by alternating one-way traffic using police details or flaggers as required. Where the Engineer approves a full closure or detour, it shall be limited to active work hours. All lanes shall be open to traffic outside of working hours, a temporary driving surface may be used.

Note 6 states that ‘concrete used around curb shall be paid under Item 446.1’

Please add Item 446.1 to the Bid Item List.

Item 446.1 is located on sheet 5 of the bid tab. Note that the quantity has been adjusted in Addendum 2

Sheet 36 - Construction Details 3 of 7.

Where will the Tactile Directional Indicator be installed.

How will the Contractor be paid to it?

Tactile Directional Indicators are not proposed as part of this project, the detail has been removed

Sheet 5

1. What color is to be used for stamped concrete? What pattern is used for all of the stamped concrete?

Per the 2026 Worcester Standard Specifications for Item 445, stamped concrete shall be integrally colored with a Deep Red color base admixture and Deep Red color hardener, with a used brick stamp pattern. The specific color, pattern, and release agent color will be selected by the Engineer in consultation with the City from samples submitted by the Contractor prior to ordering materials. The selection will not change the contract unit price.

2. Is the pine bark mulch natural or colored?

Pine bark mulch color shall be selected by the contractor to best match the existing mulch at each proposed location. Brown colored mulch shall be used where no reference for existing mulch can be determined.

3. What is proposed to be done with drainage pipes for CB's that are removed?

Drainage pipes connected to catch basins that are to be removed shall be abandoned. Please note that the 2026 Worcester Standard Specifications for Item 244.2 refer to Section 140 of the MSSHB. Section 140.81 states that for drainage structures removed, masonry plugs shall be incidental to the work.

4. CB runs are being called for 12" DR-18 PVC. Is the City of Worcester not looking to use C900 pipe anymore?

Per the 2026 Worcester Standard Specifications for Item 225.12 12" Catch Basin Connections shall be DR18.

5. Will DI require granite inlet?

A curb inlet stone will not be required at the drop inlet on sheet 5 as the grate will be against a transition curb for a pedestrian curb ramp.

6. Is there an existing driveway stone at 360 Franklin? Will the proposed new driveway require driveway stones?

A new curb corner will be required. Related updates are included in Addendum 2.

7. How is the stamped concrete proposed to meet the concrete sidewalk?

Stamped concrete shall abut the sidewalk at a joint where shown on the plans. Joint filler, joint sealer, and backer rod are incidental to Item 445 and no separate payment will be made.

Sheet 6

1. South side Pleasant Street references R&R VGC. How is this proposed when existing is straight and proposed has radius.

New granite curb Type VA4 is proposed as typical for this location. All curb that can be constructed from relocated curb shall be. Curb that cannot be

constructed from relocated curb due to curves or poor condition of the existing curb shall be constructed using the typical VA4 curbing.

2. Northeast corner Pleasant/Tiverton. Will proposed DI require granite inlet stone? If yes, where should it be placed?

A curb inlet stone will not be required at the drop inlet on sheet 6 as the grate is not against a straight segment of curb. HMA placed at grate shall be graded to drain.

Sheet 7

1. Northeast corner Fruit/Pleasant calls for rebuild Alternate Type CB. Is the frame and cover to be included in that price?

Per the 2026 Worcester Standard Specifications for Item 241., Measurement and Payment section, frame and covers will be paid under item 236. Note that the alternative catch basin at this location will be replaced with a drop inlet, see Addendum 2.

2. Same corner- Appears to have drainage on the VGC radius. What type of structure is this or is this an error? If it is a structure, how is the casting to be set along the VGC radius?

The alternative catch basin at this location will be replaced with a drop inlet, see Addendum 2.

3. SW corner. How is the proposed stamped corner to meet concrete sidewalk?

Stamped concrete at this location is bounded by vertical granite curb and does not meet the sidewalk.

4. SW corner contains VGC. What is the contractor to do with the existing VGC?

Existing vertical granite curb shall be removed and reset where applicable under item 416. Unsuitable or unneeded granite curb shall be removed and stacked under item 418.

5. NE corner calls for R&R VGC. Proposed VGC has significant changes. What is proposed for this?

New granite curb Type VA4 is proposed as typical for this location. All curb that can be constructed from relocated curb shall be. Curb that cannot be constructed from relocated curb due to curves or poor condition of the existing curb shall be constructed using the typical VA4 curbing.

Sheet 8

1. Proposed CBCI's appear to be on radius. Should these be radius curb inlets? How is the casting proposed to be set for the radius?

The CBCI's at this location have been relocated, see Addendum 2

2. What is the elevation of DMH? What are the proposed inverts and outlets?

Rim and invert elevations are provided in Addendum 2 to the extent available. Contractor will be responsible for verifying existing inverts and performing test pits as necessary.

3. VGC on West side calls for R&R. Proposed is significantly different. Is this an error?

New granite curb Type VA4 is proposed as typical for this location. All curb that can be constructed from removed curb shall be. Curb that cannot be constructed from removed curb due to curves or poor condition of the existing curb will be constructed using the typical VA4 curbing.

4. East side appears to have drainage structure, but nothing is called out. What type of structure is this or is it an error?

Per the 2026 Worcester Standard Specifications for Item 241. Alternative Type CB is a single structure that includes both a grate and a cover, both are shown on the plan for proper orientation Refer to sheet 313 of 393 in the Worcester Standard specifications for the construction detail for this item which includes how the two pieces are connected.

Sheet 11

1. South side. Where guardrail is being removed, how is that to be left once completed?

The wooden guardrail is to be removed where it will obstruct the proposed curb ramp. The wooden guardrail shall be cut at the nearest retained post.

Sheet 12

1. What is the elevation of existing drainage pipe for both locations? What size pipe exists?

Elevations and pipe material for both locations are not known at this time. Test pits will be required for this location prior to finalizing proposed drainage inverts.

2. PCR 30 calls for Alternate Type CB. Appears there is another drainage structure but does not have a call out. What is this supposed to be? What is the proposed pipe for the connection?

Per the 2026 Worcester Standard Specifications for Item 241. Alternative Type CB is a single structure that includes both a grate and a cover, both are shown on the plan for proper orientation Refer to sheet 313 of 393 in the Worcester Standard specifications for the construction detail for this item which includes how the two pieces are connected.

3. PCR 31/32 have Proposed Alternate CB with no call out for the other structure. What are they supposed to be and what is the proposed pipe for the connection?

Drainage structure at STA 704+15 16.4' RT:

Per the 2026 Worcester Standard Specifications for Item 241. Alternative Type CB is a single structure that includes both a grate and a cover, both are shown on the plan for proper orientation Refer to sheet 313 of 393 in the Worcester Standard specifications for the construction detail for this item which includes how the two pieces are connected.

Drainage structure at STA 704+15 14.5' LT:

This structure was incorrectly labeled, see Addendum 2

Sheets 38-40

1. For roadway gutter slopes that do not conform with PROWAG standards, how does the City of Worcester intend to make these areas conform? For example, 14.83% gutter slope. Please provide detailed instructions to bidders.

In locations where the existing gutter slope exceeds the maximum slope for transition ramps the transition ramps shall be 15' long as shown on the plans. Level landings will be required to meet guidelines for cross slopes. As such, repaved areas adjacent to level landings at crosswalks shall be graded to meet curb openings.

2. It appears that there are two (2) different types of MH that are being proposed (MH and Doghouse MH). Bid form should probably reflect the two types.

Item 230.501 5' Manhole Base Over Existing Pipe has been added to the bid tab. Doghouse manhole's will be paid for under item 230.501. Manholes that are not over existing pipe will be paid for under Item 230.5 5' Manhole Base.

Construction Plan 1 of 8 calls to remove a traffic signal at the corner of Franklin Street and Norfolk Street.

How will the Contractor be paid for this work? Shall the signal be delivered to the City or become property of the Contractor?

Item 615.001 Remove and Stack Beacon has been added to the bid tab. Removal of the traffic beacon will be paid for under this item. The signal shall be delivered to the City.

Sheet 31 – Traffic Signal Plans

Is the Contractor supposed to adjust the timing of the signals at this location?

If so, how will the Contractor be paid for this work?

Signal timing adjustments are not the responsibility of the contractor; timing adjustments will be performed by the City.

Sheet 34 – Construction Details

The details for the Raised Crosswalk and Raised Bus Stop call out ‘Mill 1.5” deep. See plans for length”

Shall the entire area of the Crosswalk Bus Stop be milled or just the perimeter?

The full area of the raised crosswalks and raised bus stops shall be milled.

Will new granite transition curb be included for payment under Items 405, 408 and 409?

Or should new items be added specifically for granite transition curb?

New granite transition curb is included under Items 405, 408 and 409

Item 481.003 – Gate Remove and Reset

Method of Measurement and Basis of Payment

In part B – the Special Provisions state “Prior to the installation of the bollard or gate post”

In part C – the Special Provisions state “This item will be paid for at the contract unit price per each”

Please confirm that Gate Remove and Reset will be paid per each Post.

Item 481.003 will be paid per each gate post removed and reset.

Item 610.900 – Precast Cement Concrete RRFB Foundation

Material & Construction Method

The Special Provisions state “The Contractor shall protect the installed RRFB foundations from damage during construction activities and until the RRFBs are installed by the Worcester DPW & Parks.”

This assumes a timely installation of the RRFBs by others.

Once the work has been completed at a location and the Contractor has demobilized, the Contractor shall no longer be held responsible to protect the foundations from damage.

[Following demobilization and acceptance of completed work by the City, protection of the remaining RRFB foundations will become the responsibility of the City.](#)

Location 10 – Mill Street

Could you please provide grades at the Raised Bus Stop.

[Grades for the raised bus stop are provided in Addendum 2.](#)

Location 11 – Shrewsbury Street

Will the Contractor be responsible for removing the existing RRFBs and foundations?

If so, please create a bid item for the work.

[Item 615.001 Remove and Stack Beacon has been added to the bid tab. Removal of the RRFB will be paid for under this item. Removal of foundations will be paid for under item 116. Excavation.](#)

Will temporary pavement markings be incidental to the work?

[Yes, temporary pavement markings will be incidental to the work.](#)

Location 15 – Camelot Drive

The Construction Plans call to remove guardrail.

Is there any new guardrail to be installed or existing guardrail/posts being reset at that location?

The wooden guardrail is to be removed where it will obstruct the proposed curb ramp. The wooden guardrail shall be cut at the nearest retained post. No new guardrail is proposed at this location.

Please review the elevations at the Raised Crosswalk as shown on the Grading Plan.

Are they correct?

Elevations for this raised crosswalk have been reviewed and are accurate.

Location 16 – Mann Street

Please review the elevations at the Raised Crosswalk as shown on the Grading Plan.

Are they correct?

Elevations for these raised crosswalks have been reviewed; inaccurate elevations have been updated in Addendum 2.

Sheet 8 – Construction Plans – Mil Street

The Construction Plans call out Prop 5' HMA Bike Lanes.

Will part, or all, of the pavement be considered a 'Raised Bus Stop'?

The Pavement Notes for Proposed Bike Path call for 8" gravel borrow, 2.5" SSC-12.5 and 1.5" SSC-9.5.

The detail for a Raised Bus Stop calls for milling (403), base course (422.3), intermediate course (422.2) and surface course (422.1).

Item 426 includes excavation, fine grade, gravel and 2" of HMA pavement.

Please clarify how the Prop 5' HMA Bike Lanes will a) be constructed and b) measured and paid.

Areas labeled as Bike Lanes at this location are Raised Bus Stops, labels have been revised accordingly, see Addendum 2. These raised bus stops will be constructed as shown in the Raised Bus Stop detail with Full Depth Pavement Over Mill, in accordance with the pavement note for Proposed Full Depth Pavement Over Mill on sheet 3. Raised Bus Stops will be paid for under items 403., 422.1, 422.2, and 422.4.

ITEM 230.501 5' MANHOLE BASE OVER EXISTING PIPE**EACH****A. GENERAL**

This work consists of constructing 5-foot diameter manholes over existing pipes (Type 1 manholes) at the locations shown on the plans. Work shall conform to the City's Standard Specifications for Items 230-232, Manholes, including Description paragraph 1 (manholes built over existing sewer pipes), the typical manhole details, and all referenced material and testing requirements.

B. MEASUREMENT AND PAYMENT

Measurement will be per each manhole base constructed over existing pipe, complete and accepted. Payment will be at the contract unit price per each, which includes all work described for the manhole base under the Standard Specifications for Item 230, plus removal of the existing pipe above the shelf.

ITEM 615.001 REMOVE AND STACK BEACON**EACH****A. GENERAL**

This work consists of removing existing flashing beacon assemblies and their foundations at the locations shown on the plans, including heads, signs and sign mounts, poles, controller, solar panel, batteries, and enclosure, anchor bolts, embedded hardware, and associated conduit and wiring. Conduit shall be removed to the nearest pull box or 2 feet from the foundation and the remaining ends capped. The Contractor shall coordinate disconnection of utility service with the utility prior to removal.

Foundations shall be excavated under item 116., Excavation.

The removed beacon assemblies shall be delivered and stacked at the designated location, 1065 Millbury Street. Components shall be handled to avoid damage, grouped by component type, and stacked as directed by the City. The Contractor is responsible for damage caused during removal, transport, or stacking. Any components the City does not accept shall be disposed of in accordance with applicable regulations.

Excavations left by foundation removal shall be backfilled with Gravel Borrow conforming to Item 126. Gravel Borrow used for this backfill will be paid under Item 126. Gravel Borrow. Placement and compaction are incidental to this item. Surface restoration and new sidewalk construction will be paid under Item 441.001, New Concrete Sidewalk.

B. MEASUREMENT AND PAYMENT

Payment will be at the contract unit price per each assembly, which includes all labor, equipment, transportation, stacking, disposal, placement and compaction of backfill, and incidentals necessary to complete the work.

Bidder Name: _____

THE BIDDER MUST FILL IN THESE UNIT PRICES and carry out all extensions and fill in the "Total" column. In case of error or discrepancies, UNIT PRICES written in words will govern over figures.

ITEM NO.	QTY	BASE BID		UNIT PRICE		TOTAL		
		ITEM WITH UNIT BID PRICE WRITTEN IN WORDS		DOLLARS	CENTS	DOLLARS	CENTS	CENTS
110.	16.00	AT	Pine Bark Mulch _____					
			PER CUBIC YARD					
112.2	20.00	AT	Test Pits _____					
			PER EACH					
116.	195.00	AT	Excavation _____					
			PER CUBIC YARD					
120.	10.00	AT	Class "B" Rock Excavation and Disposal _____					
			PER CUBIC YARD					
121.	6.00	AT	Trench Rock Excavation and Disposal _____					
			PER CUBIC YARD					
126.	130.00	AT	Gravel Borrow _____					
			PER CUBIC YARD					
128.	70.00	AT	Screen Loam Borrow _____					
			PER CUBIC YARD					
134.	5.00	AT	Rip Rap _____					
			PER CUBIC YARD					
156.	530.00	AT	Seeding _____					
			PER SQUARE YARD					
160.	1.00	AT	Cleaning Up _____					
			PER LUMP SUM					
171.001*	20.00	AT	Silt Sack _____					
			PER EACH					

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ITEM NO.	QTY	BASE BID		UNIT PRICE		TOTAL		
		ITEM WITH UNIT BID PRICE WRITTEN IN WORDS		DOLLARS	CENTS	DOLLARS	CENTS	CENTS
222.15	165	AT	Trench Excavation and Backfill, Furnish and Install 15" RCP PER FOOT					
225.12	350	AT	12 Inch Catch Basin Connection PER FOOT					
230.5	1	AT	5' Manhole Base PER EACH					
230.501*	4	AT	5' Manhole Base Over Existing Pipe PER EACH					
231.5	40	AT	5' Manhole Section PER VERTICAL FOOT					
233.002*	2	AT	Remodel Existing Catch Basin PER EACH					
235.	16	AT	Catch Basin Frame & Grate PER EACH					
236.	12	AT	Manhole Frame & Cover PER EACH					
240.	10	AT	Worcester Standard Catch Basin (5 foot Diameter) PER EACH					
241.	3	AT	Catch Basin Alternate Type PER EACH					
241.1	4	AT	Drop Inlet PER EACH					
244.2	5	AT	Remove and Dispose of Existing Catch Basin PER EACH					

ITEM NO.	QTY	BASE BID		UNIT PRICE		TOTAL		
		ITEM WITH UNIT BID PRICE WRITTEN IN WORDS		DOLLARS	CENTS	DOLLARS	CENTS	CENTS
245.	11.00	AT	Granite Inlet Stone PER EACH					
245.1	3.00		Existing Granite Inlet Stone Remove & Reset PER EACH					
245.101*	5.00	AT	Existing Granite Inlet Stone Remove & Stack PER EACH					
247.	13.00	AT	12 Inch Green Traps PER EACH					
301.1	40.00	AT	10" Zinc Coated CLDI Pipe PER FOOT					
304.09	10.00	AT	Water Box Adjust to Grade, Rigid Base PER EACH					
402.	30.00	AT	Fine Grading, Rolling and Finishing PER SQUARE YARD					
403	380.00	AT	Grinding and Milling 1-1/2 Inch PER SQUARE YARD					
405.	1330.00	AT	Straight Curb (VA-4) PER FOOT					

ITEM NO.	QTY	BASE BID		UNIT PRICE		TOTAL		
		ITEM WITH UNIT BID PRICE WRITTEN IN WORDS		DOLLARS	CENTS	DOLLARS	CENTS	CENTS
408.	420.00	AT	Circular Curb (10' Radius & Over) (VA-4) PER FOOT					
409.	90.00	AT	Circular Curb (10' Radius & Under) (VA-4) PER FOOT					
410.	2.00	AT	Circular Corner (Worcester Standard) PER EACH					
416.	550.00	AT	Curb Remove & Reset PER FOOT					
418.	860.00	AT	Curb Removal & Stack PER FOOT					
422.1	100.00	AT	Superpave 9.5MM Level 2 PER TON					
422.2	125.00	AT	Superpave 12.5MM Level 2 PER TON					
422.4	115.00	AT	Superpave 19MM Level 2 PER TON					
424.	35.00	AT	Bituminous Concrete Driveway & Various Area PER TON					
426.	85.00	AT	New Bituminous Concrete Sidewalks PER TON					
434.	2700.00	AT	Sawing Pavement PER FOOT					
436.01	200.00	AT	Resurface Trenches Permanent PER SQUARE YARD					
437.2	600.00	AT	Installation of Advanced PMs for Speed Humps and Raised Crossings PER FOOT					

ITEM NO.	QTY	BASE BID		UNIT PRICE		TOTAL		
		ITEM WITH UNIT BID PRICE WRITTEN IN WORDS		DOLLARS	CENTS	DOLLARS	CENTS	CENTS
438.001*	20.00	AT	Bituminous Concrete Curb					
			PER FOOT					
441.001*	890.00	AT	New Concrete Sidewalk					
			PER SQUARE YARD					
444.	145.00	AT	New Concrete Driveway 6 Inch					
			PER SQUARE YARD					
445.	75.00	AT	Stamped Cement Concrete Accent Strip (Brick Band)					
			PER SQUARE YARD					
446.1	65.00	AT	Class B Concrete For Roadways Base (3,500 P.S.I, 1-1/2", 520)					
			PER CUBIC YARD					
447.02	25.00	AT	Existing Brick Sidewalks And Driveways With Gravel Base - Remove & Reset					
			PER SQUARE YARD					
450.	3.00	AT	Bounds, Remove & Reset					
			PER EACH					
454.	530.00	AT	Wheelchair Ramp Cement Concrete - 6" Thick with Detectable Warning Panels					
			PER SQUARE YARD					
467.001*	120.00	AT	Guardrail Remove & Stack					
			PER FOOT					
468.2	30.00	AT	Wooden Guardrail - Remove and Replace					
			PER FOOT					
481.002*	1.00	AT	Bollard Remove and Reset					
			PER EACH					
481.003*	2.00	AT	Gate Remove and Reset					
			PER EACH					

ITEM NO.	QTY	BASE BID		UNIT PRICE		TOTAL		
		ITEM WITH UNIT BID PRICE WRITTEN IN WORDS		DOLLARS	CENTS	DOLLARS	CENTS	CENTS
500.001*	4550.00	AT	Pavement Marking Removal					
			PER SQUARE FOOT					
501.	200.00	AT	6 Inch ReflectORIZED White Line (Thermoplastic)					
			PER FOOT					
501.001*	4200.00	AT	4 Inch ReflectORIZED White Line (Thermoplastic)					
			PER FOOT					
502.	4300.00	AT	4 Inch ReflectORIZED Yellow Line (Thermoplastic)					
			PER FOOT					
503.	5100.00	AT	12 Inch ReflectORIZED White Line (Thermoplastic)					
			PER FOOT					
503.001*	150.00	AT	12 Inch ReflectORIZED Yellow Line (Thermoplastic)					
			PER FOOT					
504.001*	12.00	AT	Pavement Legends, Arrows & Symbols (Preformed Thermoplastic)					
			PER EACH					
509.011*	4.00	AT	Bike Lane Symbols					
			PER EACH					
509.05	15.00	AT	High Friction Green Elephant Feet Crossing Markings					
			PER EACH					
514.001*	5.00	AT	Pull Box Adjusted					
			PER EACH					
520.	66.00	AT	Warning and Regulatory Signs					
			PER EACH					
520.001*	13.00	AT	Traffic Sign Remove and Reset					
			PER EACH					

ITEM NO.	QTY	BASE BID		UNIT PRICE		TOTAL		
		ITEM WITH UNIT BID PRICE WRITTEN IN WORDS		DOLLARS	CENTS	DOLLARS	CENTS	CENTS
520.002*	18.00	AT	Traffic Sign Remove and Stack					
			PER EACH					
523.	50.00	AT	Traffic Sign Poles					
			PER EACH					
523.002*	20.00	AT	Traffic Sign Poles Remove and Stack					
			PER EACH					
591.001*	1.00	AT	Delineator Post Remove and Reset					
591.002*	1.00	AT	Delineator Post Remove and Stack					
			PER EACH					
610.900*	15.00	AT	Precast Cement Concrete RRFB Foundation					
			PER EACH					
615.001	3.00	AT	Remove and Stack Beacon					
			PER LUMP SUM					
748.*	1.00	AT	Mobilization					
			PER LUMP SUM					

BASE BID TOTAL

IN WRITTEN WORDS



FRANKLIN STREET

NORFOLK STREET

SUFFOLK
STREET

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

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

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

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

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

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

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

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

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



N



HAWLEY STREET

PLEASANT STREET

FRUIT STREET

NEWBURY STREET

CONGRESS 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"

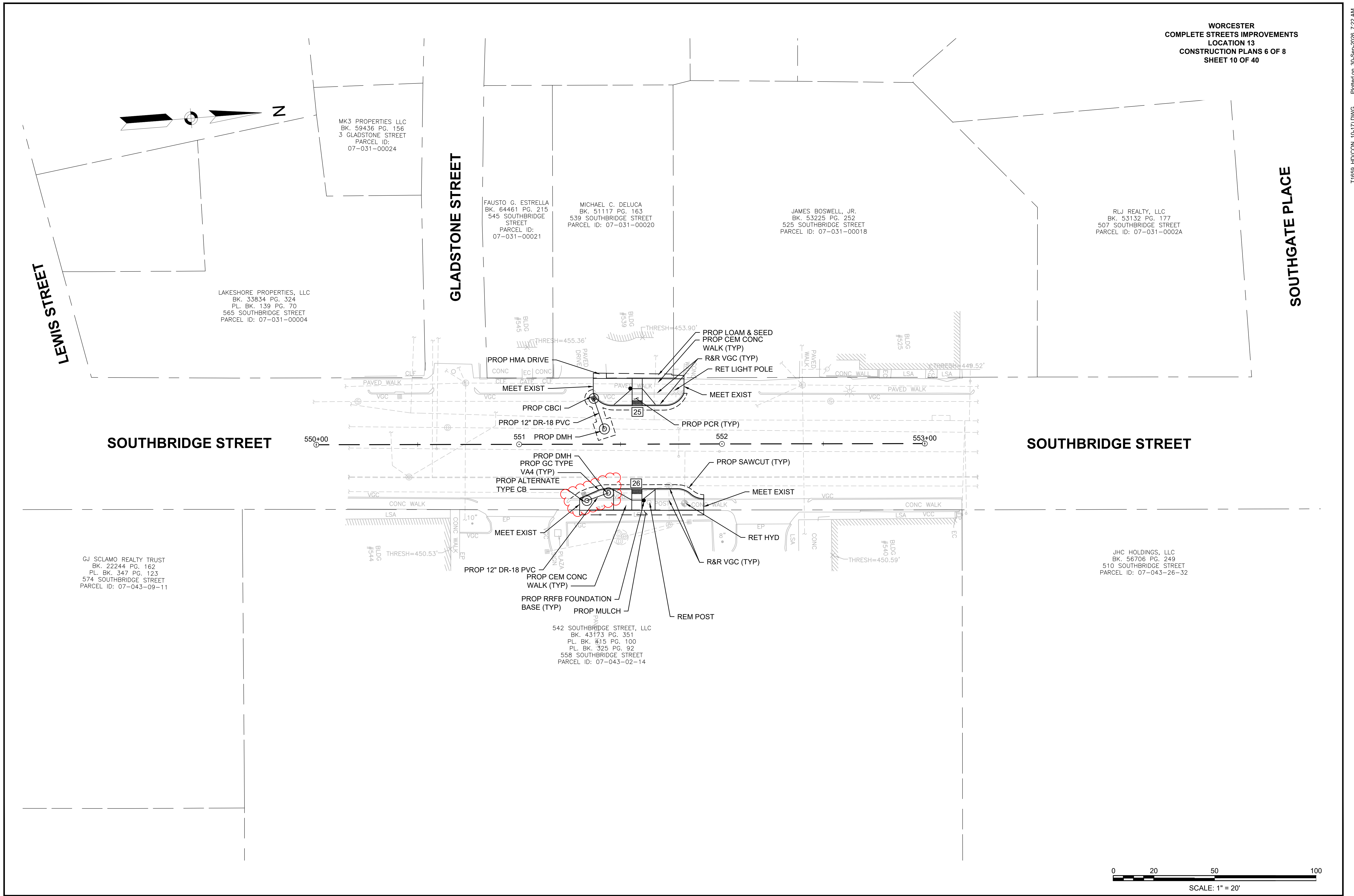
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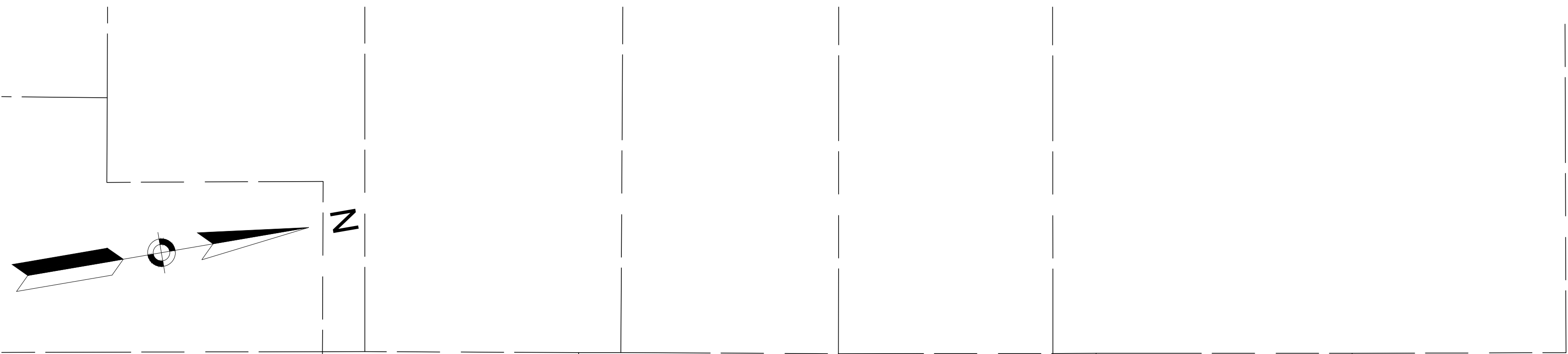
SCALE: 1" = 20'



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





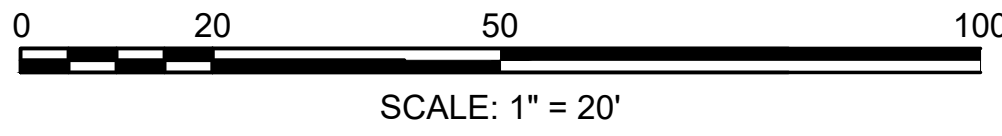
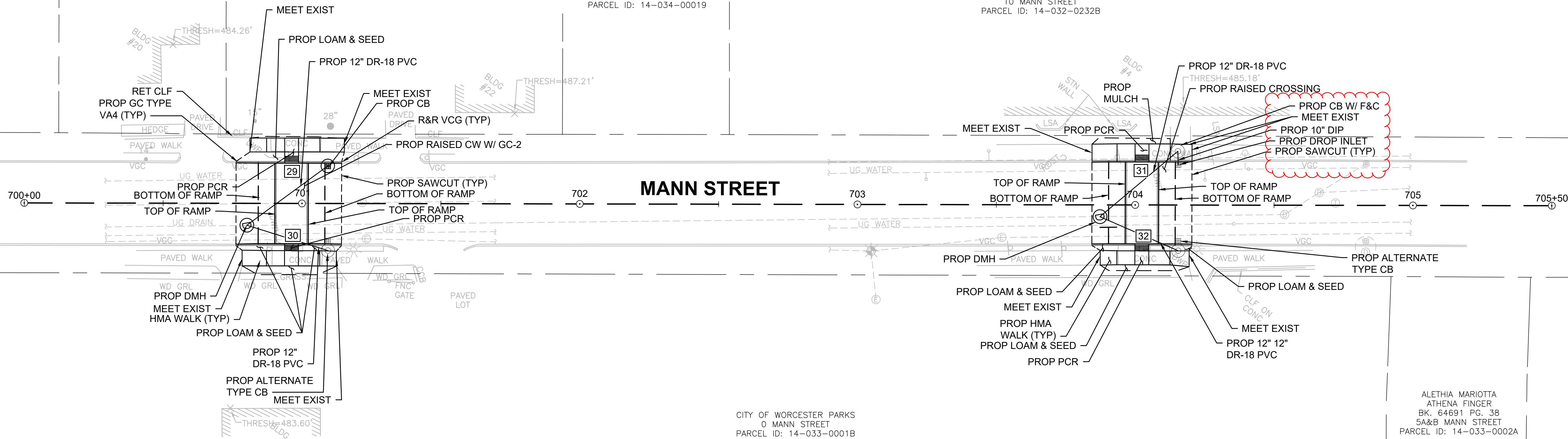


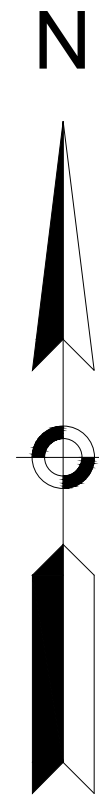
NESTOR A. TORO, JR.
ISABEL ORTIZ
BK. 43430 PG. 359
26 MANN STREET
PARCEL ID: 14-034-00017

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





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

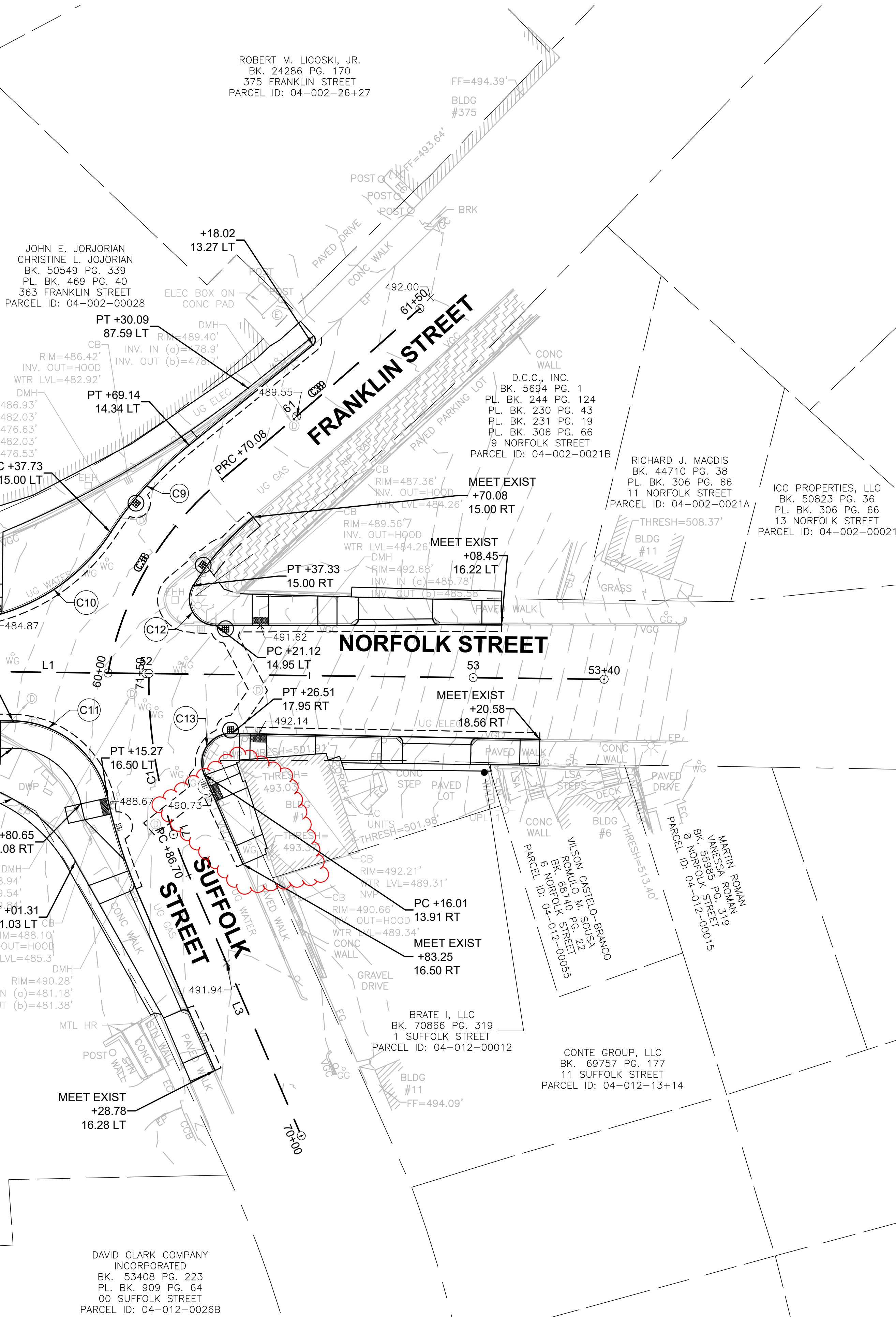
FRANKLIN STREET

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



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

HAWLEY STREET

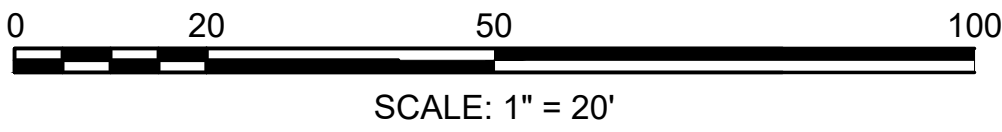
PLEASANT STREET

NEWBURY STREET

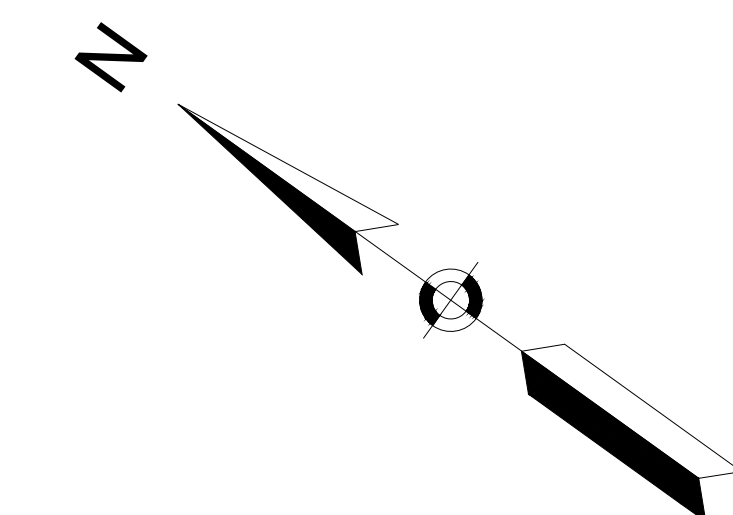
FRUIT STREET

CONGRESS STREET

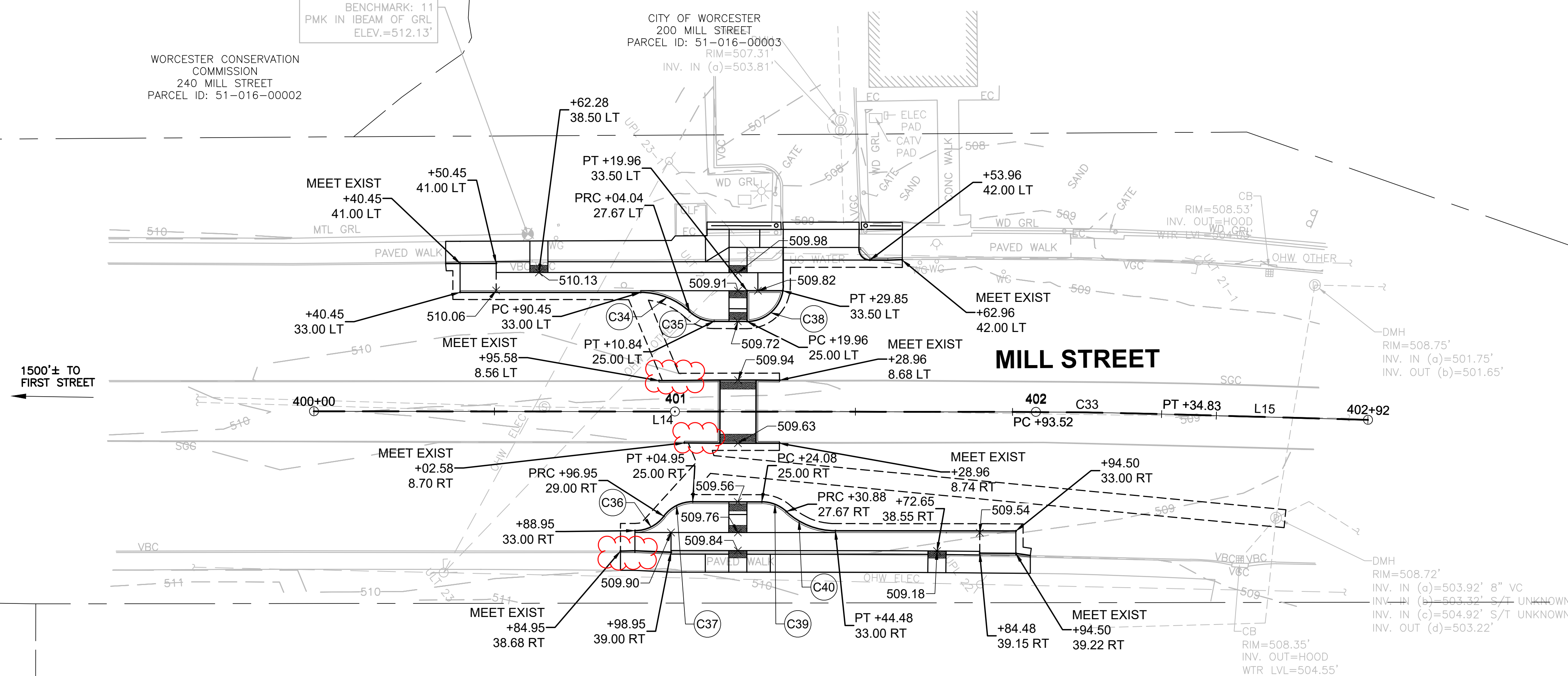
LOC_07_ALIGN_NEWBURY CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L10	260+00.00	2921322.400	571967.617		N5°37'30"E 56.23'	260+56.23	2921378.362	571973.129
C23	260+56.23	2921378.362	571973.129	R=335.00' Δ=4°03'54" L=23.77'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



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



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



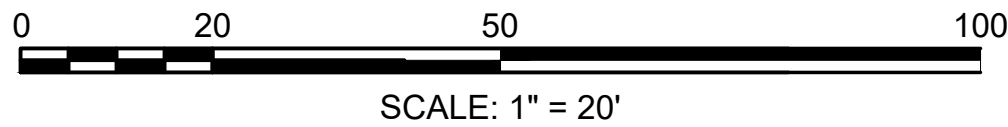
WORCESTER MILL LLC
BK. 37440 PG. 70
195 MILL STREET
PARCEL ID: 42-032-01+3A



SOUTHGATE PLACE

GLADSTONE STREET

SOUTHBRIDGE STREET



Curve Table			
Curve #	Delta	Radius	Length
C43	23°27'04"	10.00	4.09
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

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
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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

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

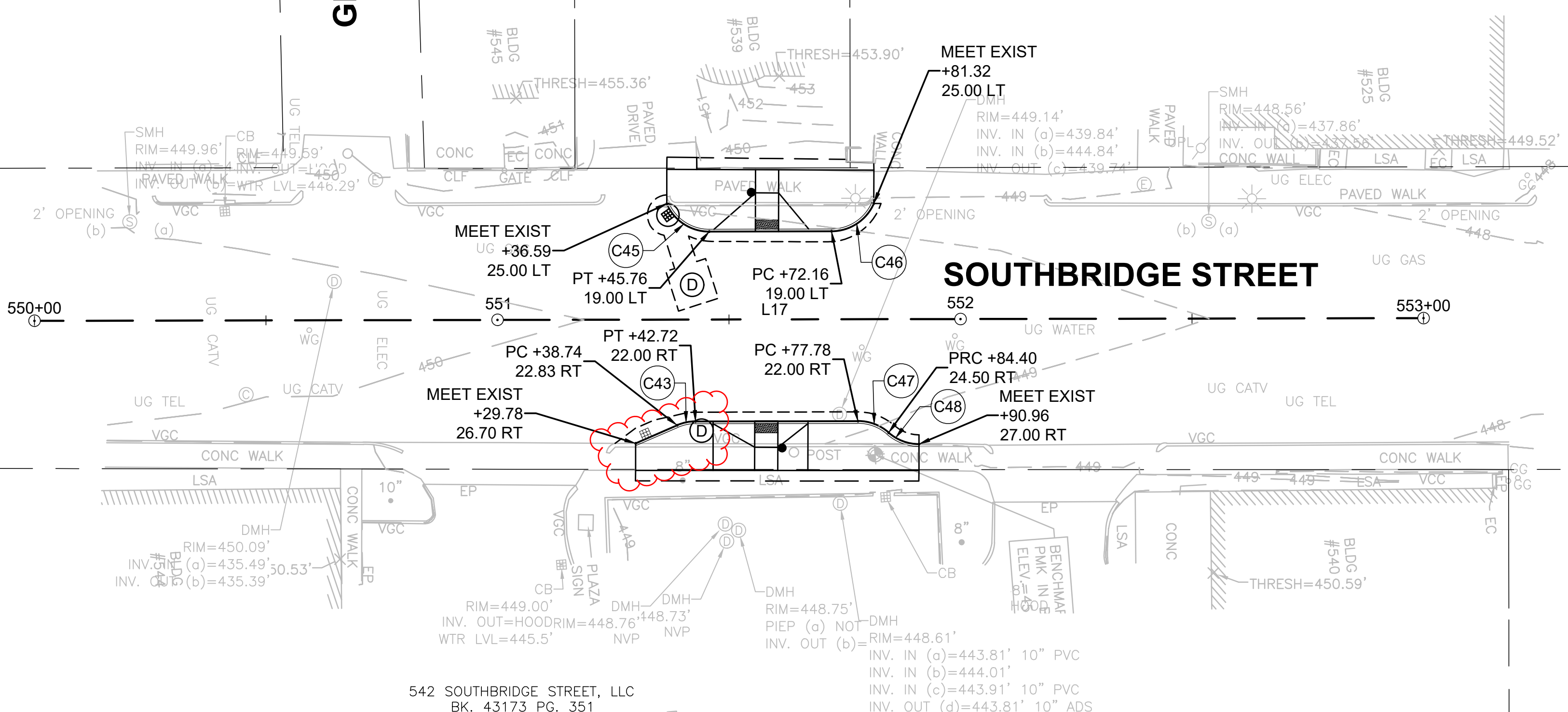
MK3 PROPERTIES LLC
BK. 59436 PG. 156
3 GLADSTONE STREET
PARCEL ID:
07-031-00024

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

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

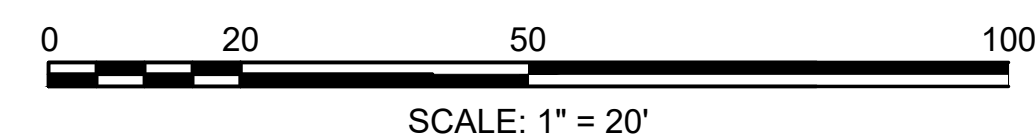
GJ SCLAMO REALTY TRUST
BK. 22244 PG. 162
PL. BK. 347 PG. 123
574 SOUTHBRIDGE STREET
PARCEL ID: 07-043-09-11

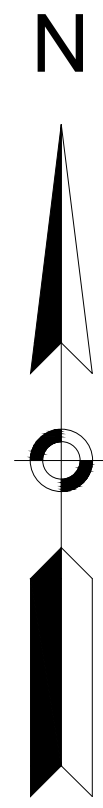
542 SOUTHBRIDGE STREET, LLC
BK. 43173 PG. 351
PL. BK. 415 PG. 100
PL. BK. 325 PG. 92
558 SOUTHBRIDGE STREET
PARCEL ID: 07-043-02-14



T1659 HD(GRADING 10-17).DWG Plotted on 2-Oct-2026 5:32 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





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

PROP SOLAR RRFB
STA 250+49.6
OFFSET 23.4' 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"

PROP SOLAR RRFB
STA 251+16.7
OFFSET 21.6' LT
(RRFB/SIGNS INSTALL BY
OTHERS, CONTRACTOR TO
INSTALL FOUNDATION ONLY)

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

RET R7-1L
R&S POST
BLDG
"ORTEGA'S
MARKET"

R7-1R

NEWBURY STREET

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

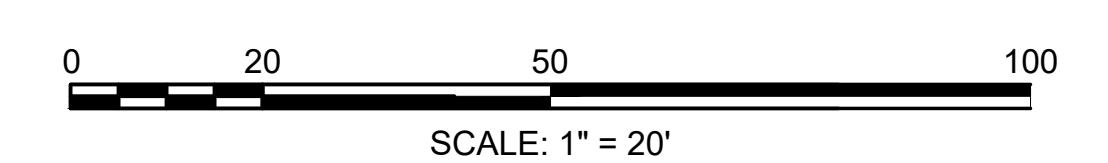
PROP SOLAR RRFB
STA 251+24.5
OFFSET 27.1' RT
(RRFB/SIGNS INSTALL BY
OTHERS, CONTRACTOR TO
INSTALL FOUNDATION ONLY)

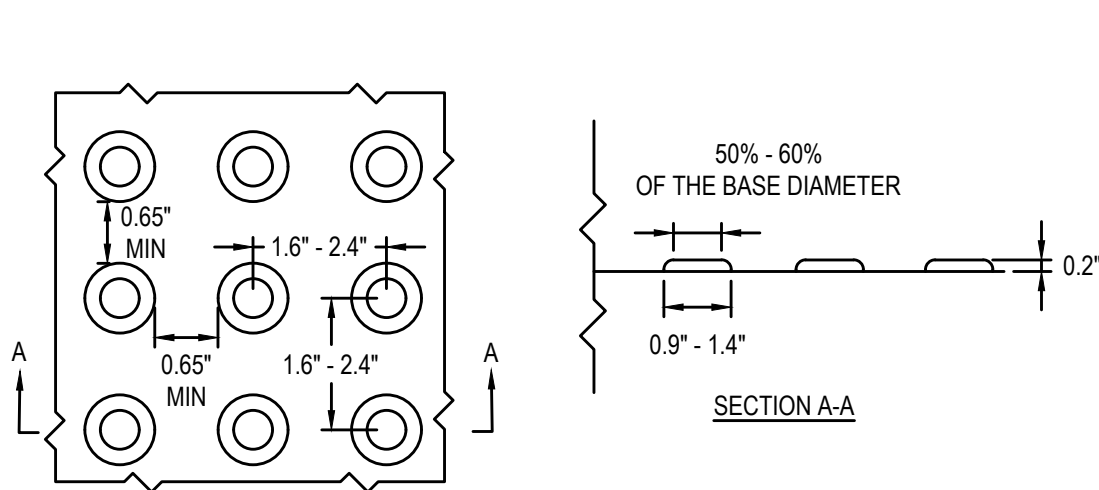
BLDG
"THE RAVEN"
256-258 PLEASANT
STREET, LLC
BK. 42287 PG. 353
258 PLEASANT STREET
PARCEL ID:
03-026-00007

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

CONGRESS STREET

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





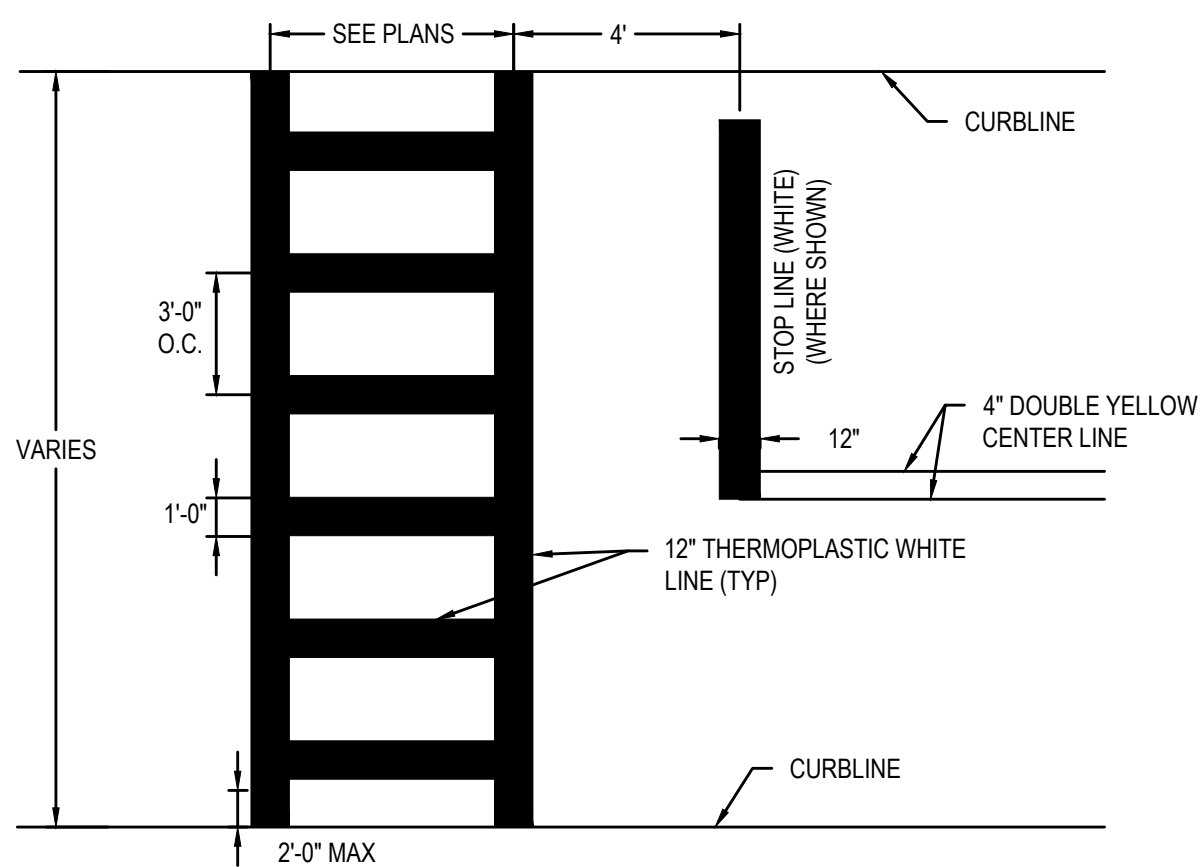
NOTES:

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 1/2" x 1 1/2" HEAVY DUTY STEEL BOLTS (FASTENERS) PROTRUDING 1/2" 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.

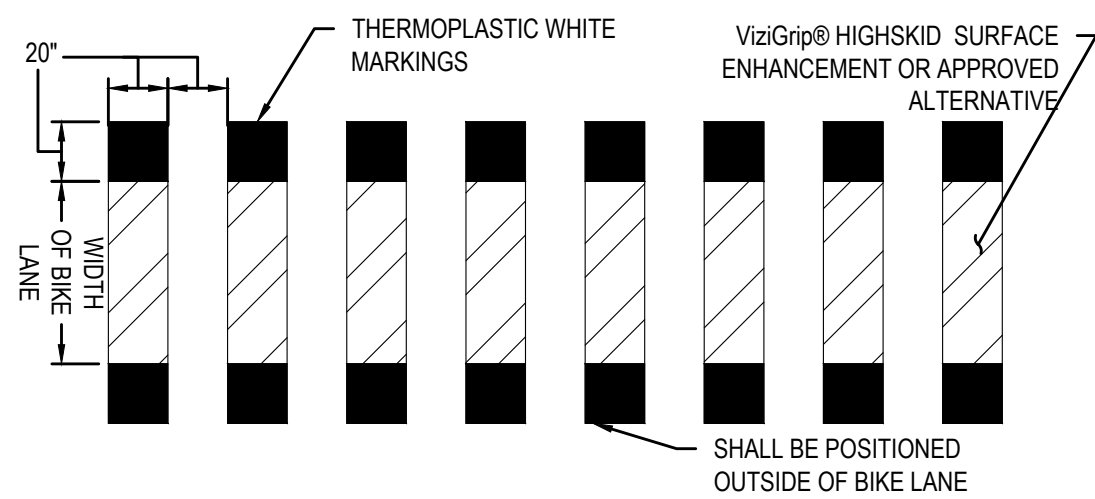


NOTES:

- 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.

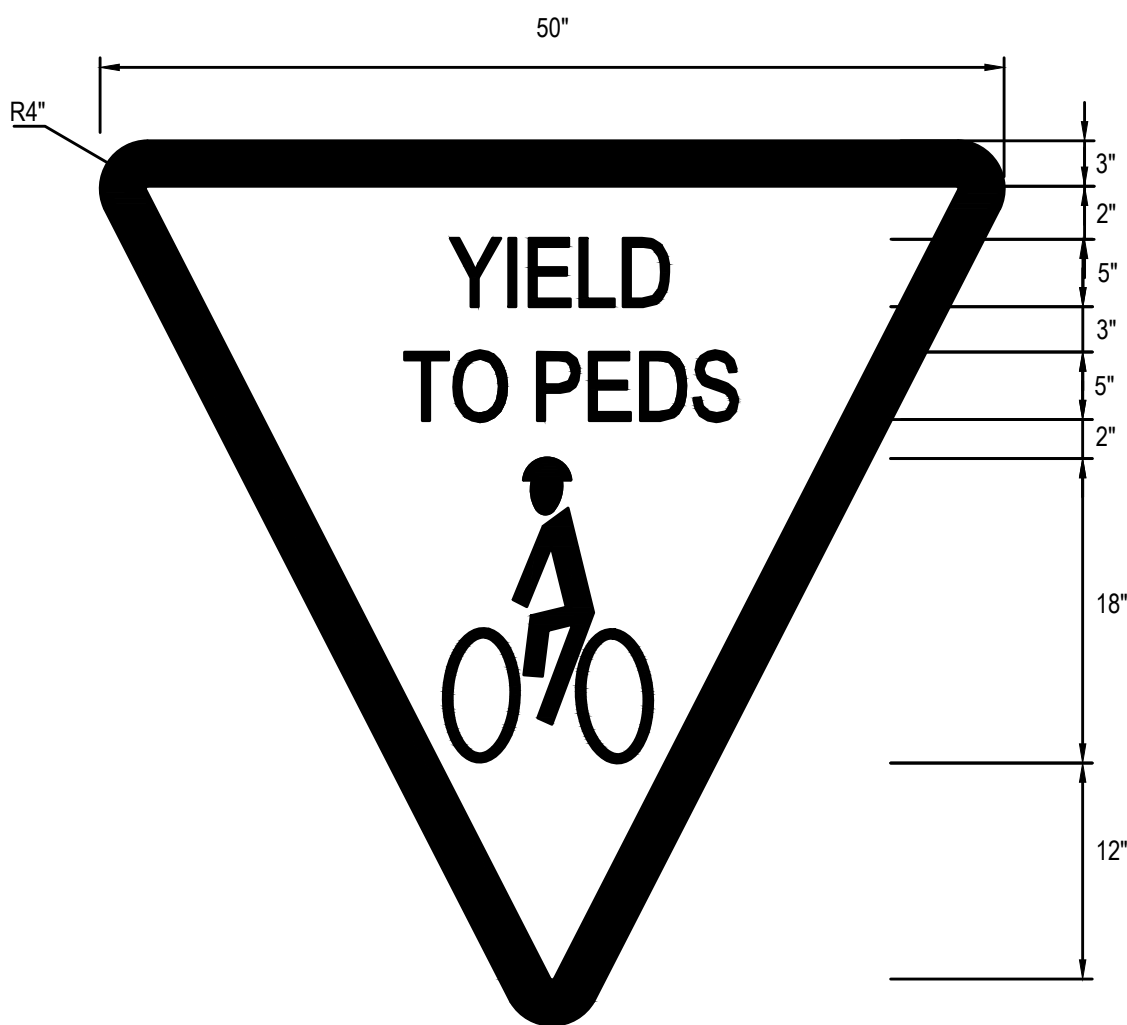


NOTES:

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

ELEPHANT FEET PAVEMENT MARKING

N.T.S.

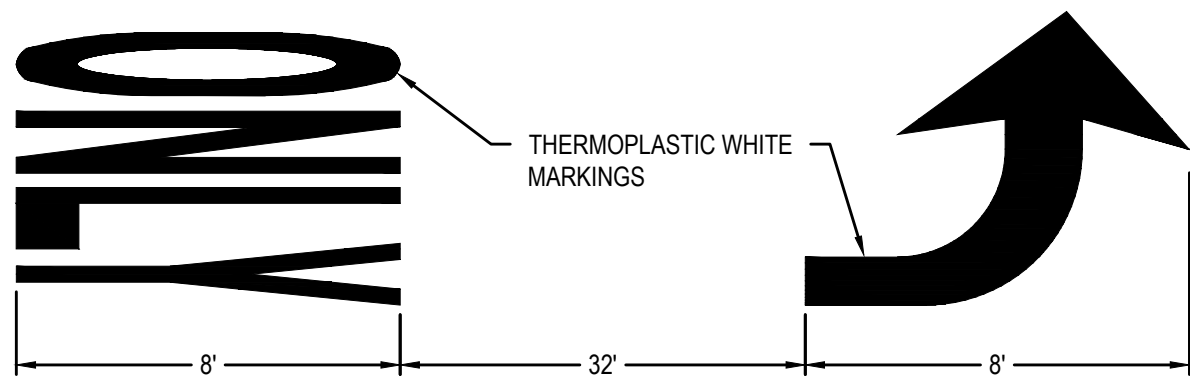


NOTE:

- 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

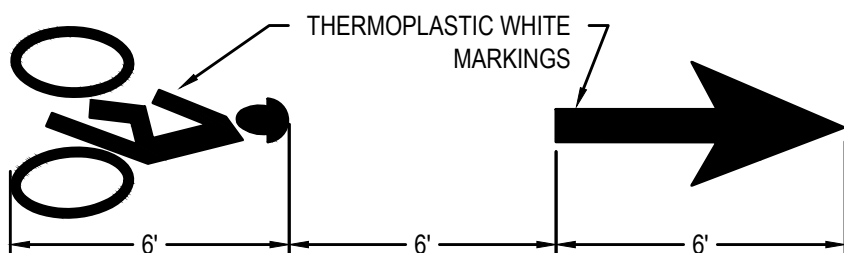
N.T.S.



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

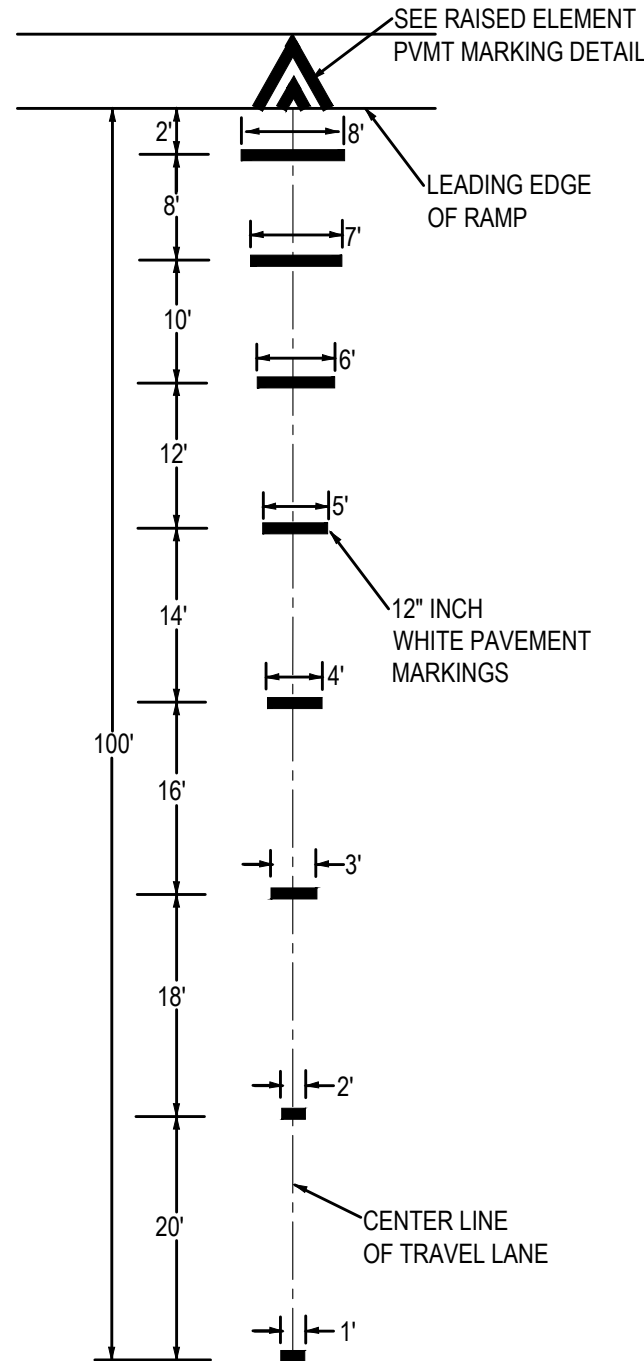
TURN LANE PAVEMENT MARKING

N.T.S.



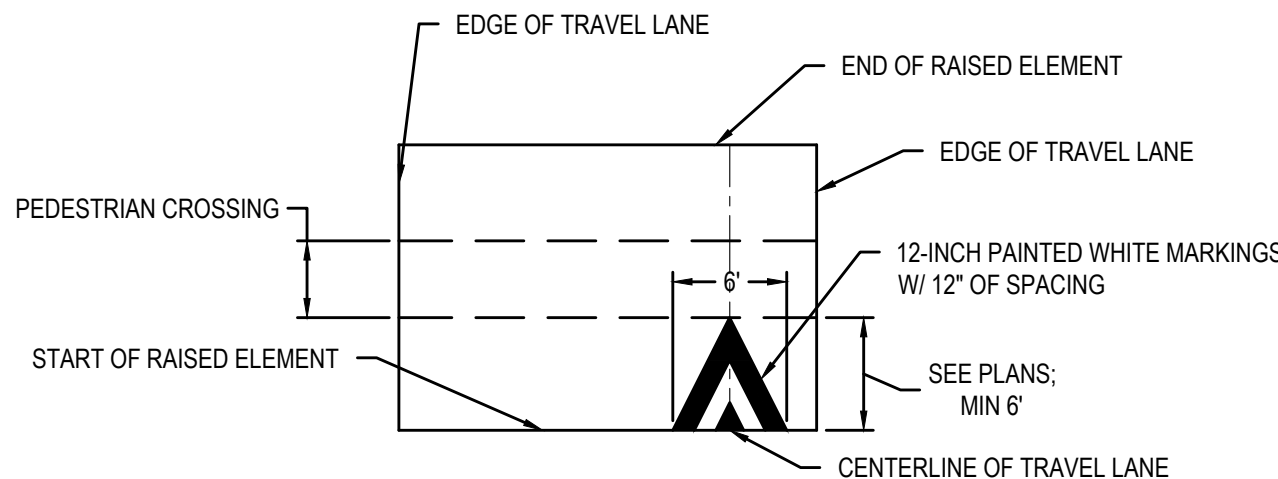
HELMETED BICYCLIST LANE PAVEMENT MARKING

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

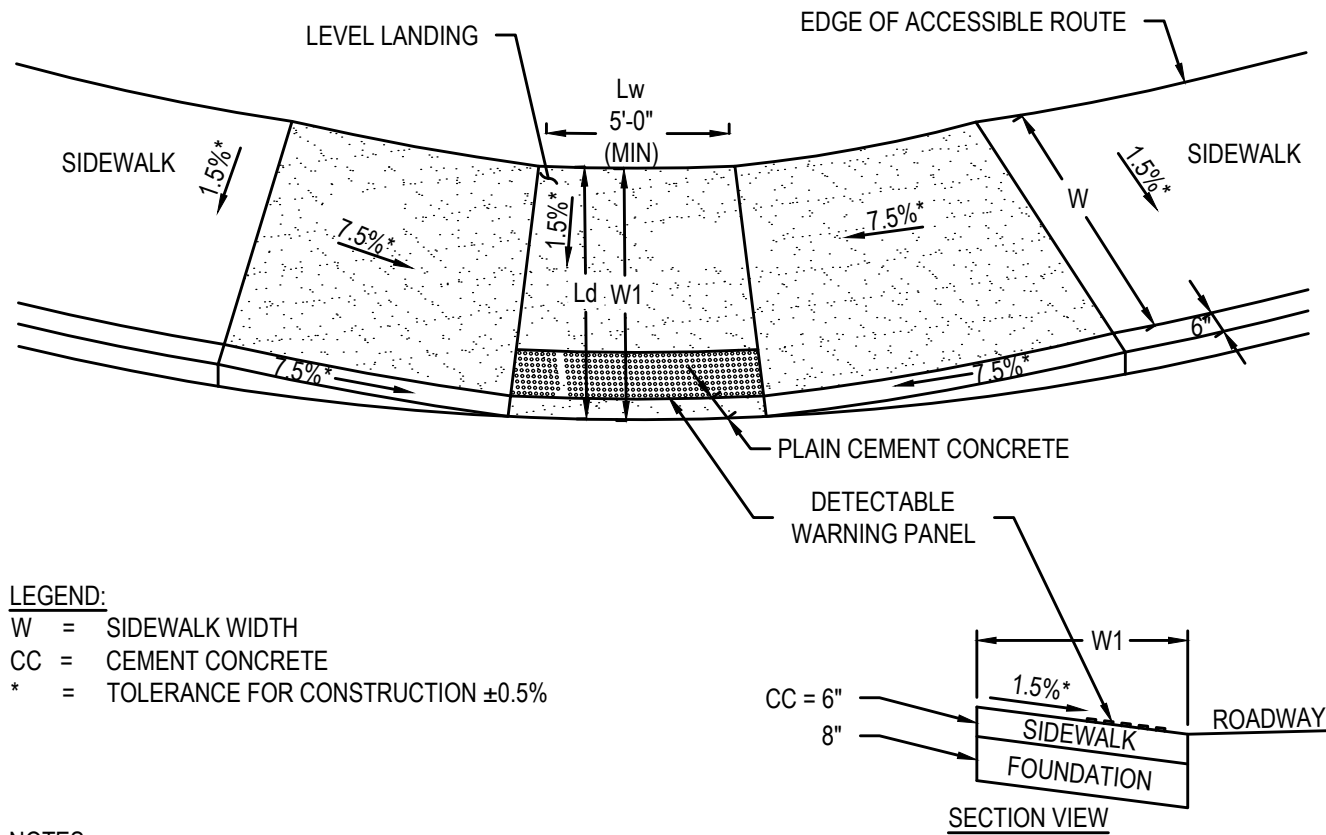
N.T.S.

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:

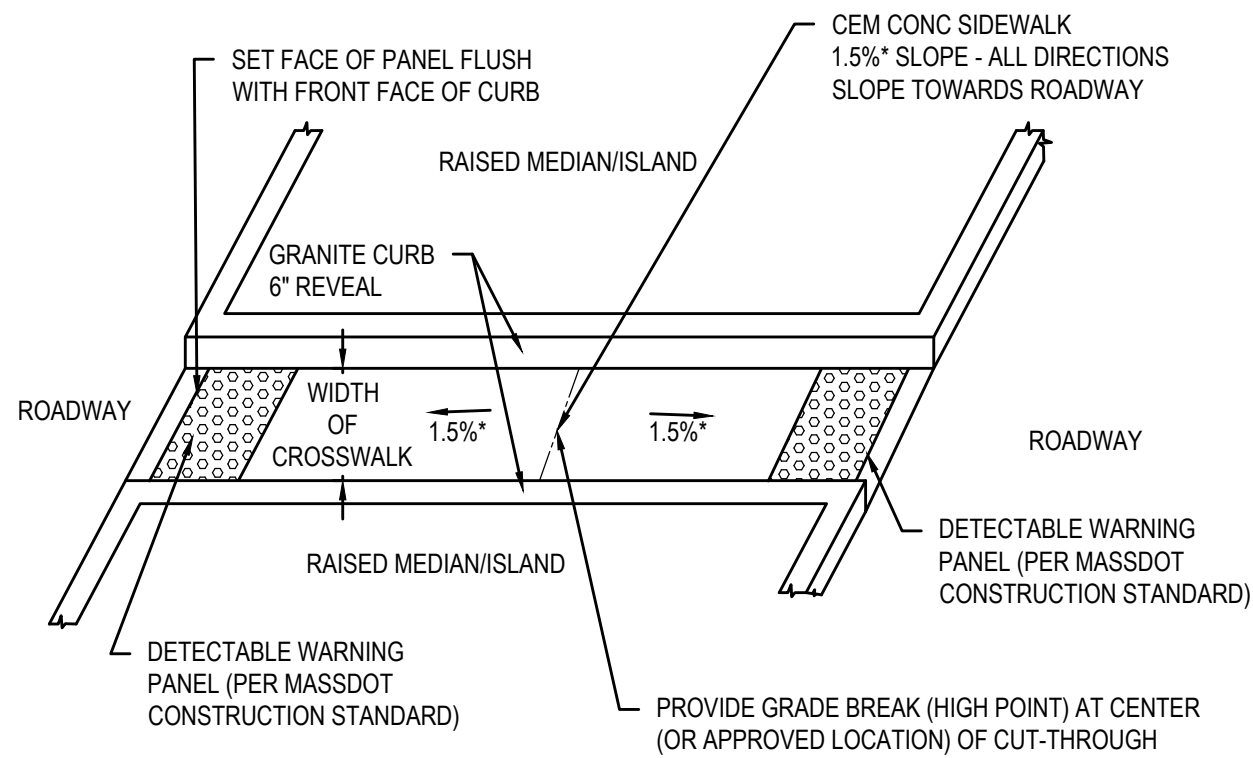
- W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
* = TOLERANCE FOR CONSTRUCTION $\pm$ 0.5%

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.

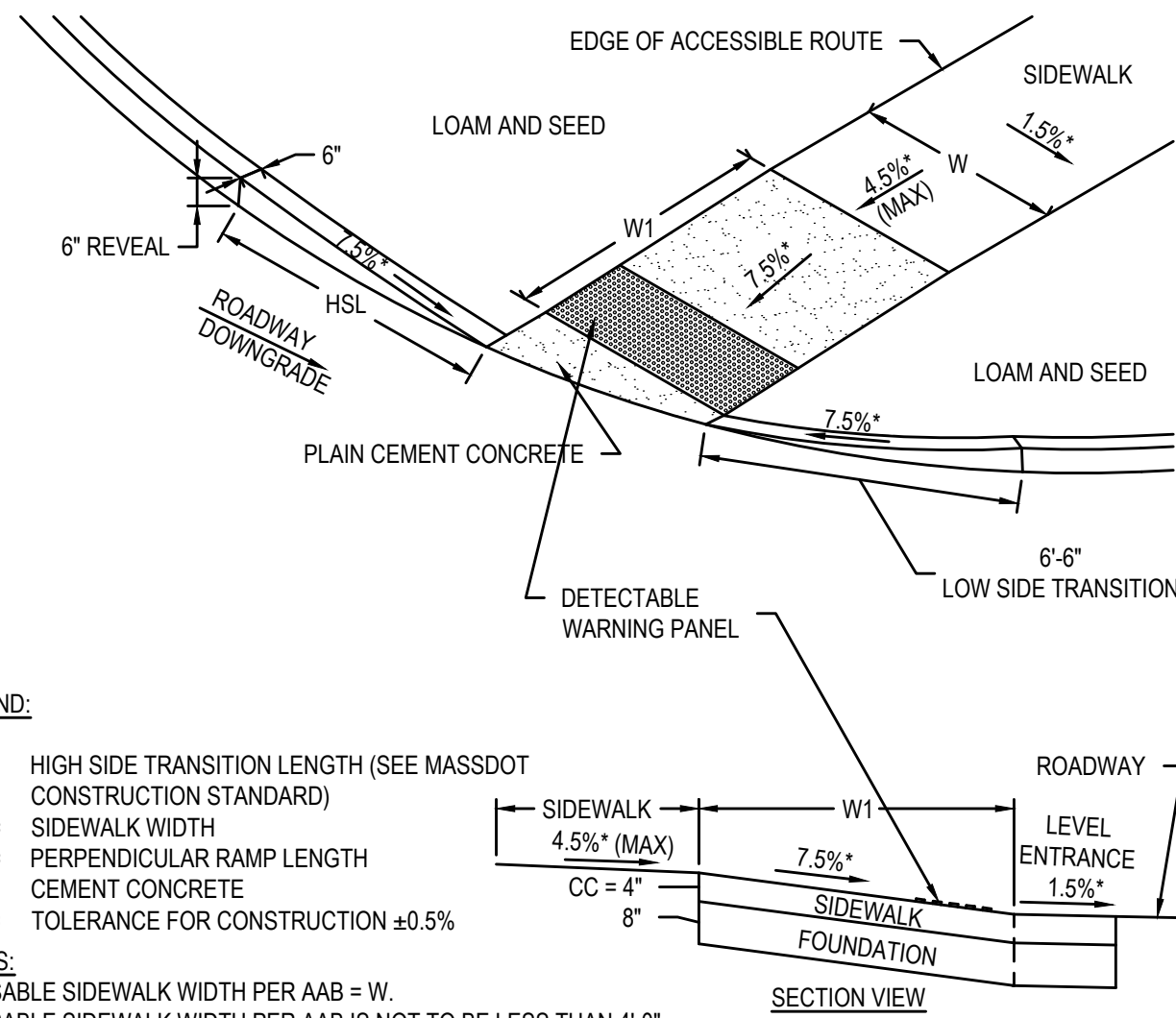


NOTES:

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:

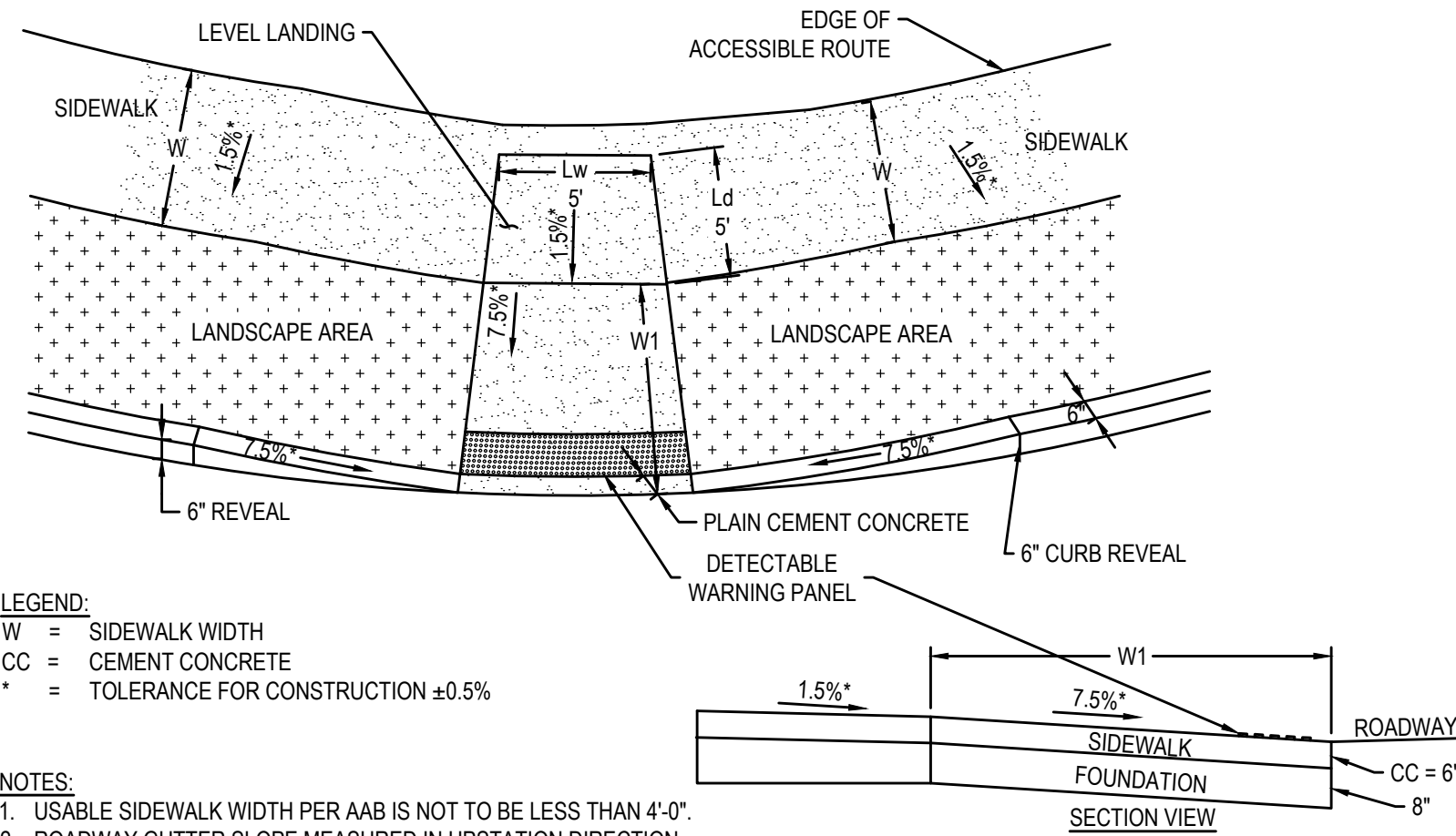
1. USABLE SIDEWALK WIDTH PER AAB = W.
2. USABLE SIDEWALK WIDTH PER AAB IS NOT TO BE LESS THAN 4'-0".
3. ROADWAY GUTTER SLOPE MEASURED IN UPSTATION DIRECTION.
4. SEE MASSDOT CONSTRUCTION FOR DETECTABLE WARNING PANEL DETAILS.

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"	-

PEDESTRIAN CURB RAMP DATA - TYPE 1												
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 3: SUFFOLK ST CONSTRUCTION BASELINE												
4	60+80.97'	15.35' RT	5'-0"	9'-9"	9'-9"	-0.26%	3'-8.2"	3"	9'-3"	15'-0"	6"	9'-3"
LOCATION 3: NORFOLK ST CONSTRUCTION BASELINE												
5	52+24.10'	18.70' RT	5'-0"	7'-6"	7'-6"	-11.46%	15'-0"	6"	7'-0"	3'-3"	3"	7'-0"
LOCATION 7: PLEASANT ST CONSTRUCTION BASELINE												
15	251+21.17'	18.34' RT	5'-0"	7'-2.4"	7'-2.4"	-8.35%	7'-6"	3"	6'-8.4"	3'-3"	3"	6'-8.4"
LOCATION 16: MANN ST CONSTRUCTION BASELINE												
31	704+02.49'	15.50' LT	5'-0"	6'-4"	6'-4"	0.00%	6'-6"	6"	5'-10"	7'-8"	6"	5'-10"



LEGEND:

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

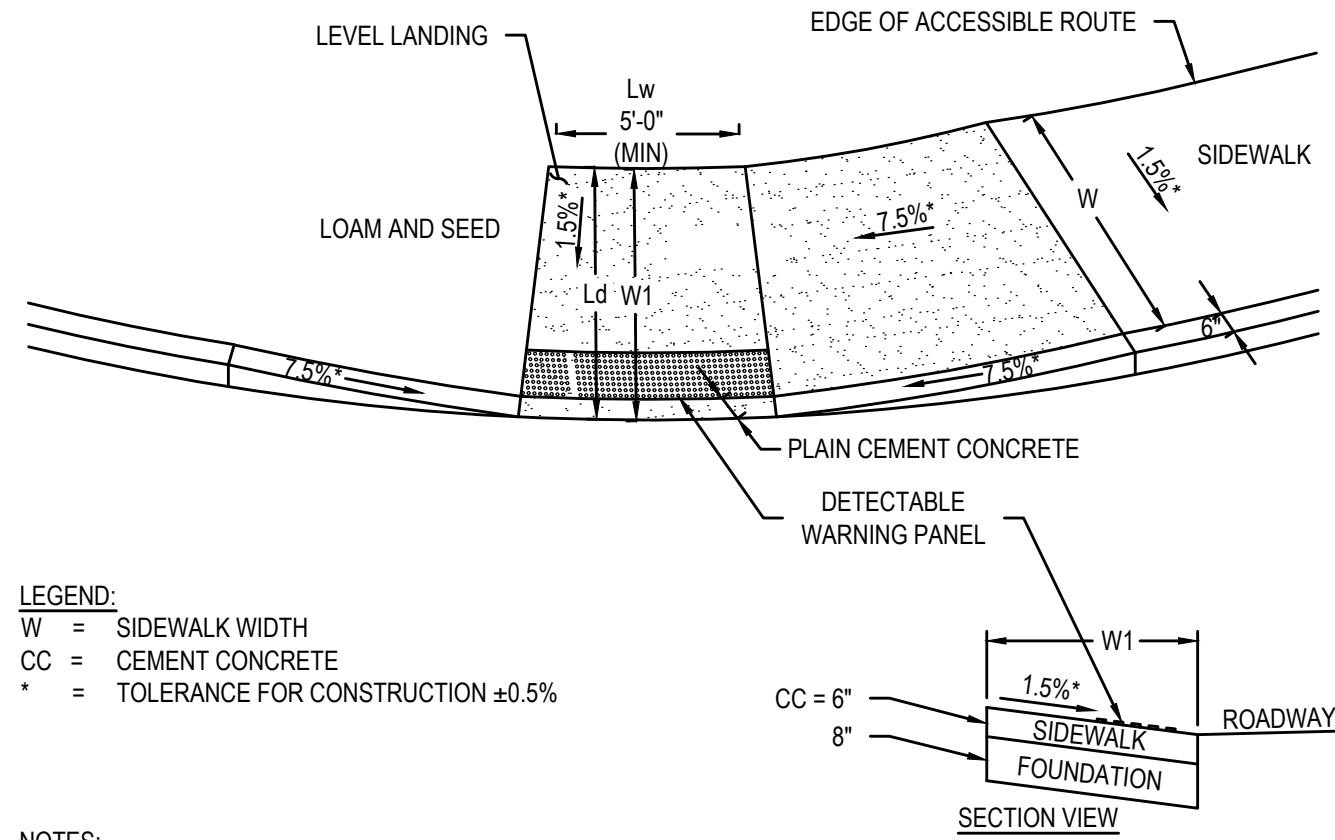
NOTES:

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"

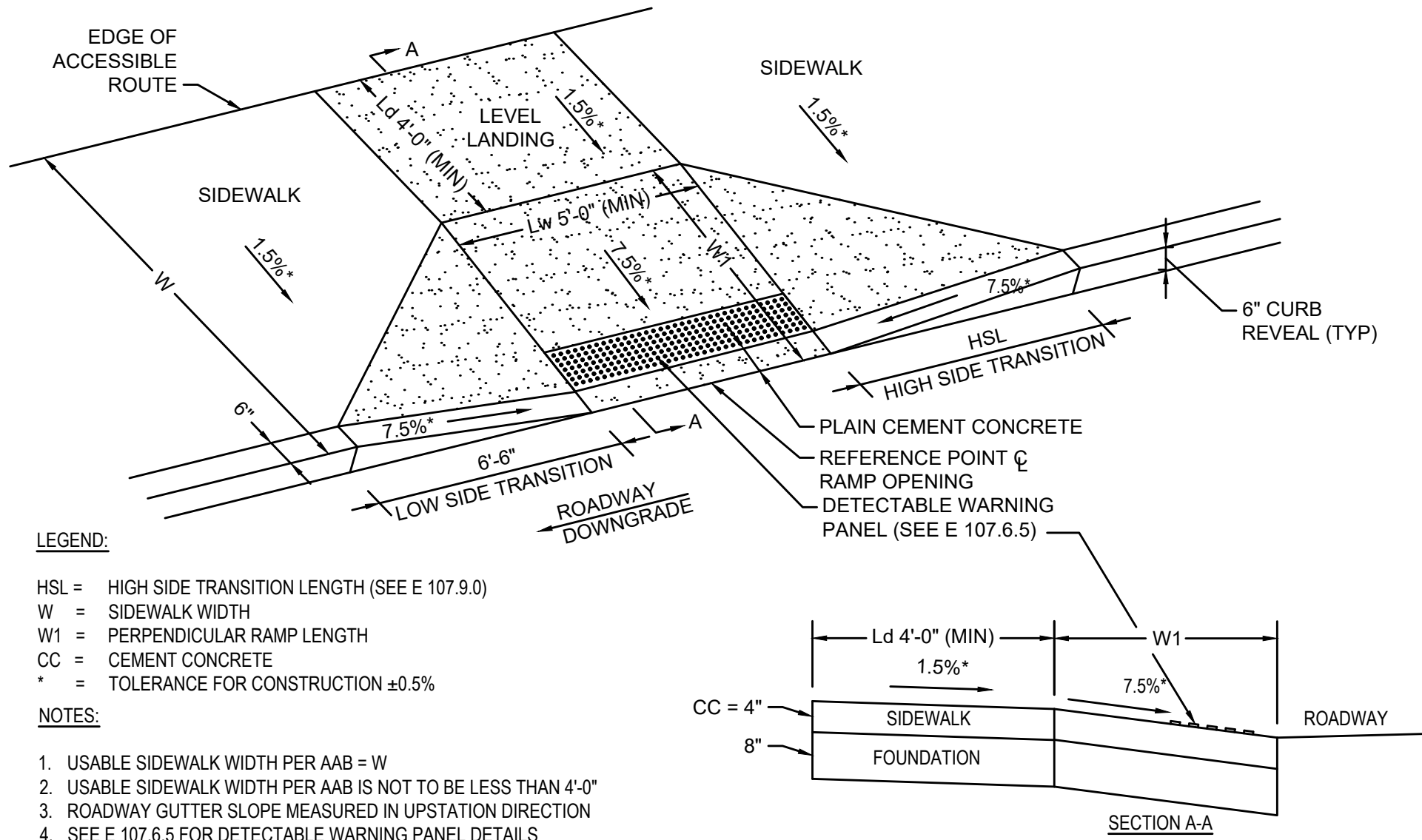


LEGEND:
W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
* = TOLERANCE FOR CONSTRUCTION $\pm 0.5\%$

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 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"



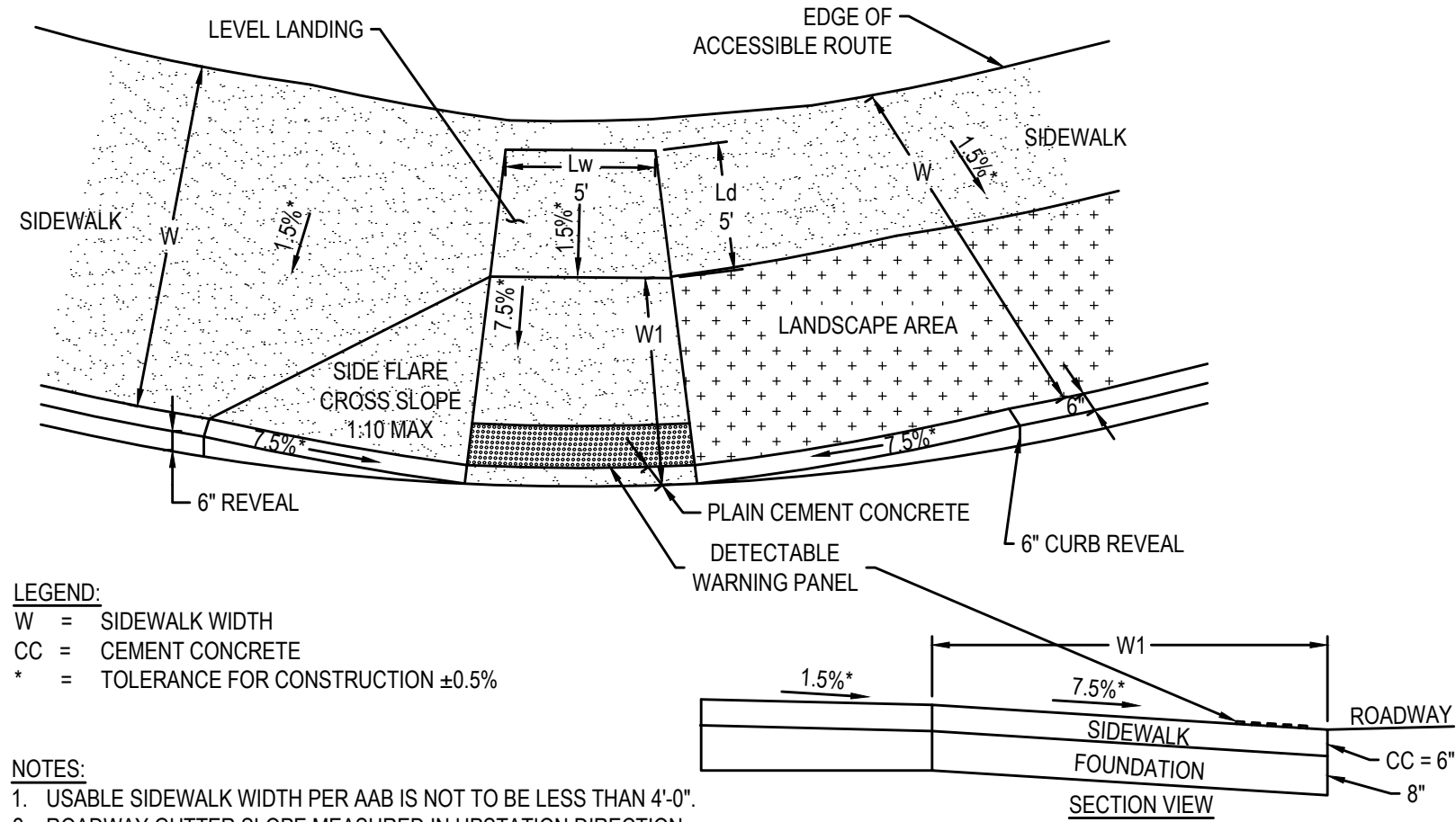
LEGEND:

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

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 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"

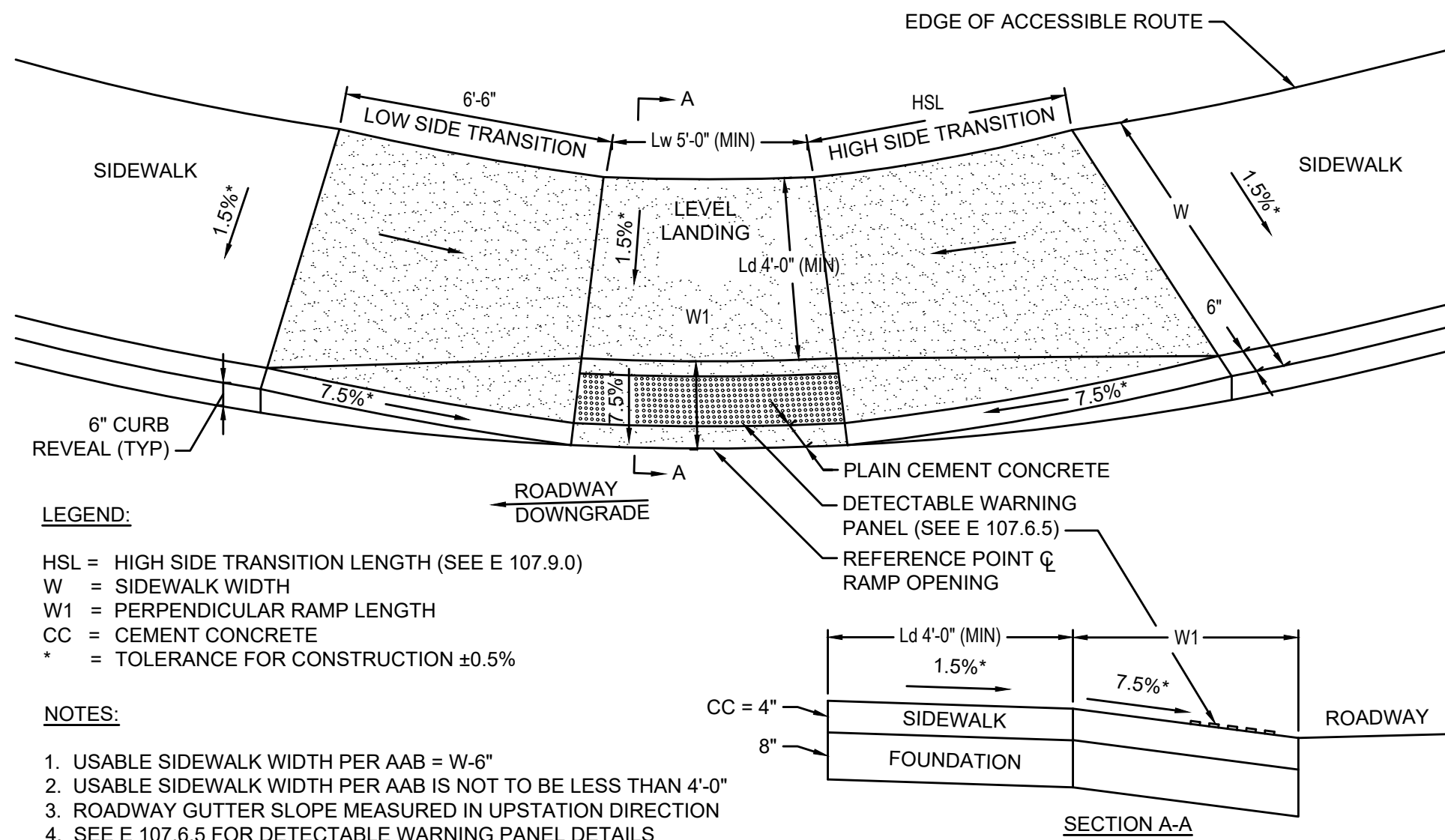


LEGEND:
W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
* = TOLERANCE FOR CONSTRUCTION $\pm 0.5\%$

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 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"



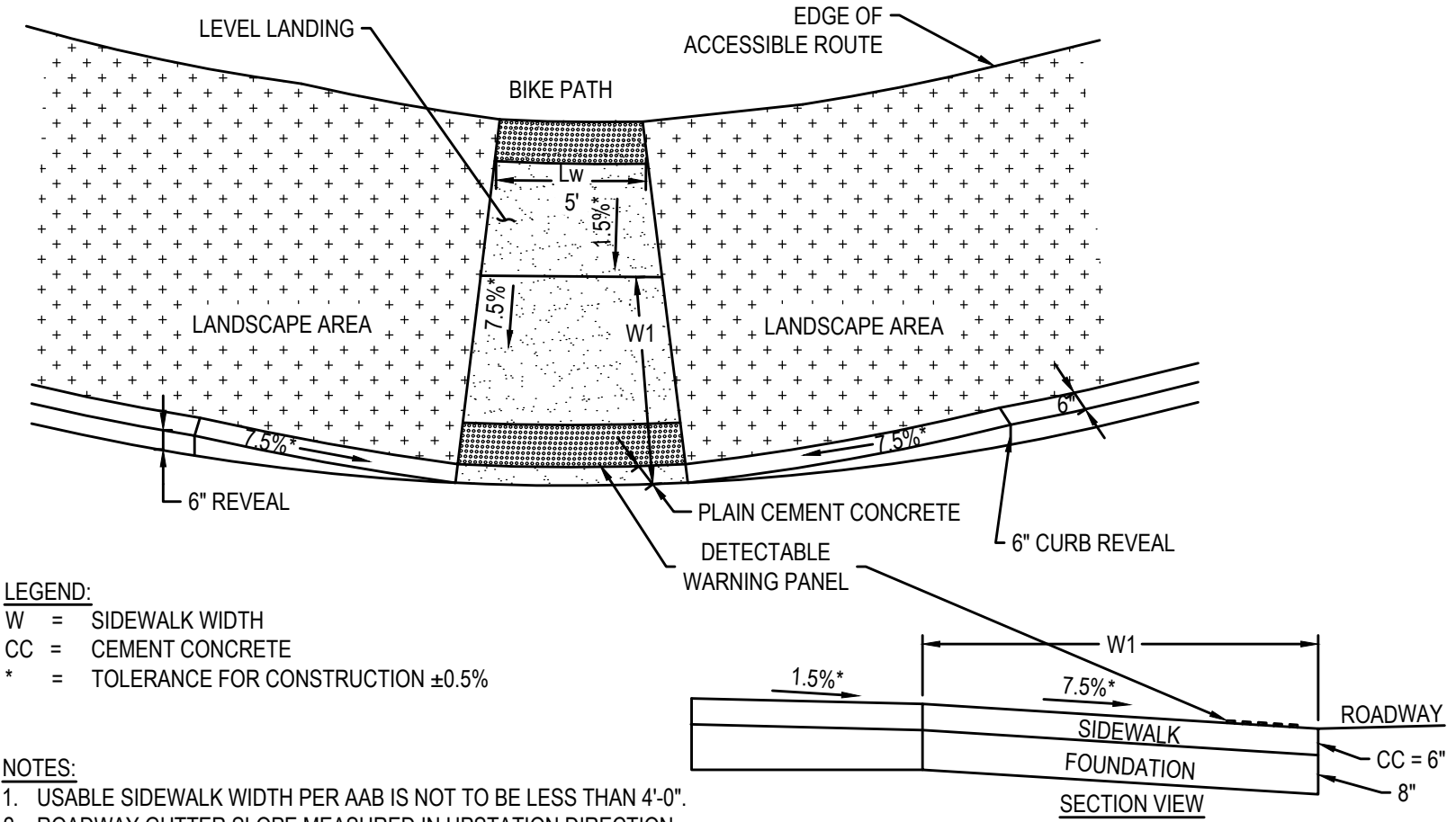
LEGEND:

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

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+52.90'	19.00' LT	5'-0"	5'-0.4"	4'-8.4"	7.28%	15'-0"	6"	9'-2.4"	9'-0"	3"	8'-5.6"
16	251+19.73'	14.47' LT	5'-0"	5'-0"	7'-7.6"	7.21%	15'-0"	3"	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"

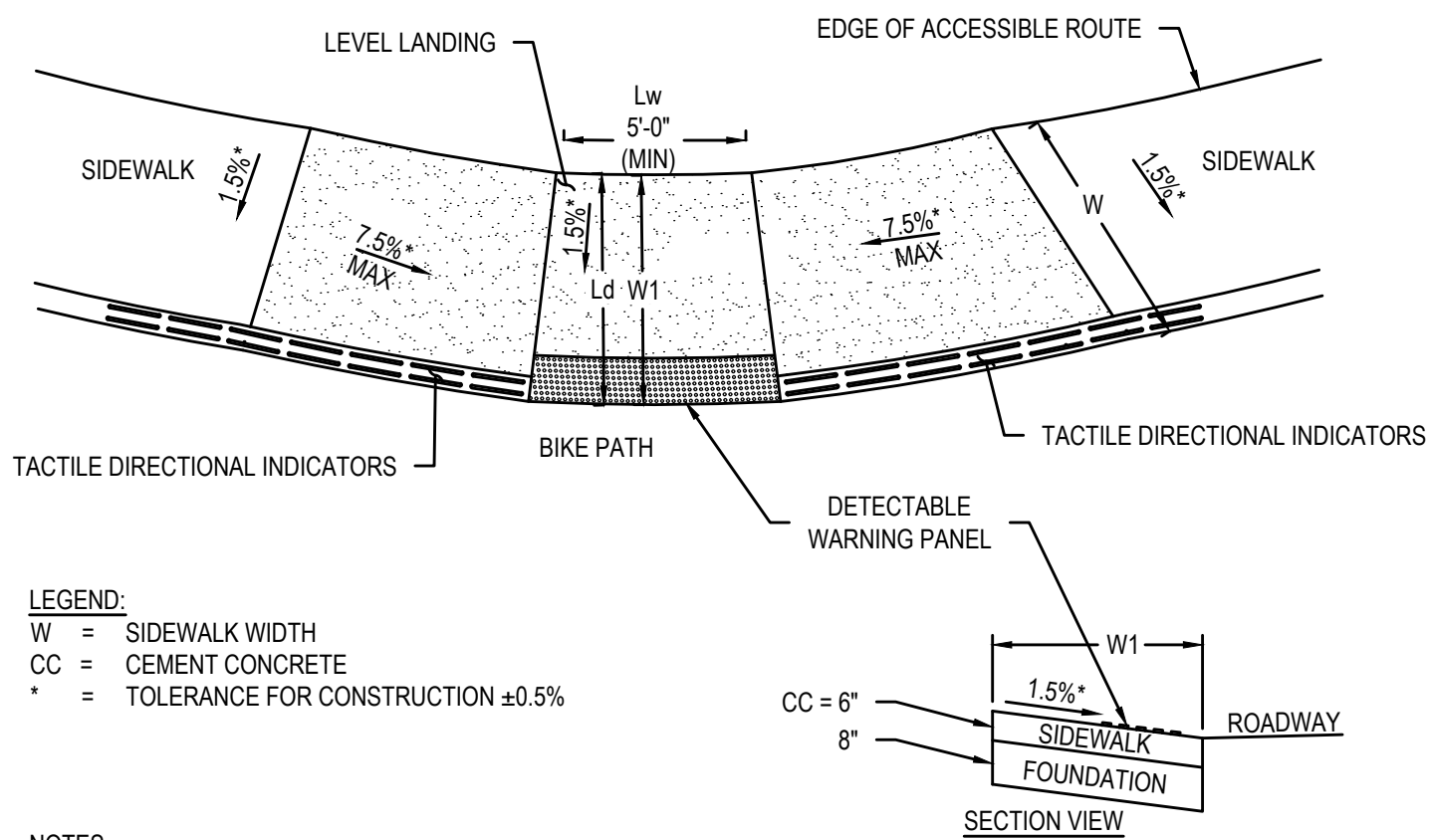


LEGEND:
W = SIDEWALK WIDTH
CC = CEMENT CONCRETE
* = TOLERANCE FOR CONSTRUCTION $\pm 0.5\%$

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 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 $\pm 0.5\%$

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 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 13
N.T.S.



WHEELCHAIR RAMP TYPE 11
N.T.S.



WHEELCHAIR RAMP TYPE 14
N.T.S.



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

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"

Worcester - Complete Street Improvements - Various Locations
8809-W7 - Addendum 2 - 10/1/2026
Proposed Drainage Structure Data

Existing drainage invert data shown in this addendum is provided for estimating purposes only and is based on available survey and record information. The Owner/Engineer makes no warranty as to its accuracy or completeness. The Contractor is responsible for field verifying existing inverts prior to ordering materials or beginning construction, including performing test pits as directed by the Engineer. Test pits will be paid under Item 112.2. Following completion of test pit exploration, the Engineer will provide updated drainage information and drainage tables.

Location 3

Type	STA	Offset	Rim	Invert In	Invert Out
CB	52+24	14.0' LT	490.36	-	485.80
CB	52+26	17.0' RT	491.62	-	485.73
CB	60+45	14.0' RT	488.02	-	484.26
CB	60+48	13.8' LT	486.75	-	482.92
DI	71+07	15.5' LT	488.97	-	486.97
CB ECC	71+13	13.5' RT	490.74	-	484.89

Location 4

DI	101+80	19.8' LT	596.28	-	594.28
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Location 7

DI	251+07	13.3' LT	514.14	-	512.14
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Location 10

CB	400+88	37.6' RT	509.32	-	504.14
CB	400+89	32.0' LT	509.53	-	505.14
MH	401+09	15.5' RT	509.67	504.82 504.82	504.81

Location 13

CB Alt	551+33	27.8' RT	449.64	-	445.02
DMH	551+44	24.0' RT	449.90	440.05 444.9	440.05
CB	551+37	22.4' LT	449.01	-	444.38
DMH	551+42	8.5' LT	449.64	434.71 444.21	434.71

Location 16

DMH	700+80	7.9' RT	482.59	Test Pit Required	
CB	701+09	13.5' LT	482.54	TBD from DMH	
CB Alt	701+09	16.9' RT	483.07	TBD from DMH	
DMH	703+87	4.3' RT	483.98	Test Pit Required	
CB	704+15	19.3' LT	484.29	481.82	TBD
DI	704+15	14.5' LT	483.87	-	481.87
CB Alt	704+15	16.4' RT	484.27	TBD from DMH	