

TOWN OF WESTON COMMUNITY PRESERVATION COMMITTEE
Project Submission Form – FY17

Submitter: Clint Schuckel (member) on behalf of the Traffic and Sidewalk Committee
Submission Date: 1/15/16
Rev: 3/03/16

Submitter's Address:
 Weston DPW
 190 Boston Post Road By-Pass
 Weston, MA 02493

Phone #:
E-mail Address:
 cschuckel @gmail.com

Purpose: (Check all that apply)

- Acquisition, creation, or preservation of open space or the rehabilitation/restoration of open space if acquired or created with CPA funds _____
- Acquisition, creation, preservation, or rehabilitation/restoration of recreational land _____
- Acquisition, creation, preservation, or support of community housing (low and moderate income housing for individuals and families, including low or moderate income senior housing) or the rehabilitation/restoration of community housing if acquired or created with CPA funds _____
- Acquisition, preservation, or rehabilitation/restoration of historic resources _____

Project Name and Brief Description: Brown Street/Winter Street Sidewalk

This project failed by only 2 votes at Special Town Meeting on November 30, 2015. Based on this close vote and the expectation that additional abutter support can be generated, the Committee is reapplying for CPA funding. In an attempt to further reduce costs, the project is being redesigned as a narrower walkway and is going to be rebid in early 2016. Existing funding is sufficient for the Brown Street portion of the project; however the Winter Street portion requires additional funds. Until bids are received, we are requesting the same \$250,000 amount to fund Winter St construction, a few utility pole relocations, and other miscellaneous costs.

How This Project Helps to Preserve Weston's Character:

A sidewalk in this location will provide a safer walking route for residents, thereby promoting walking/jogging as a form of exercise, socialization, and community building. A 5' wide asphalt walkway is consistent with other walkways in Town and utilizes a buffer zone where right of way and topography allow, with path alignment designed to minimize landscape impacts.

Project web site: <http://weston.org/755/Brown-Street-Winter-Street-Sidewalk> (Town Projects>Sidewalk Master Plan)

Projected Cost:

Fiscal Year	Total Project Cost	CPC Funds Requested	Other Funding Sources
2014	\$350,000	\$250,000	\$100,000 (Pre FY14 Gen Fund)
2017	\$250,000	\$250,000	
2018			
Total	\$600,000	\$500,000	\$100,000

For Community Preservation Committee Use:

Received on:

Associated Town Department/Committee:

Reviewed on:

Determination:

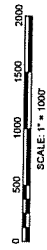
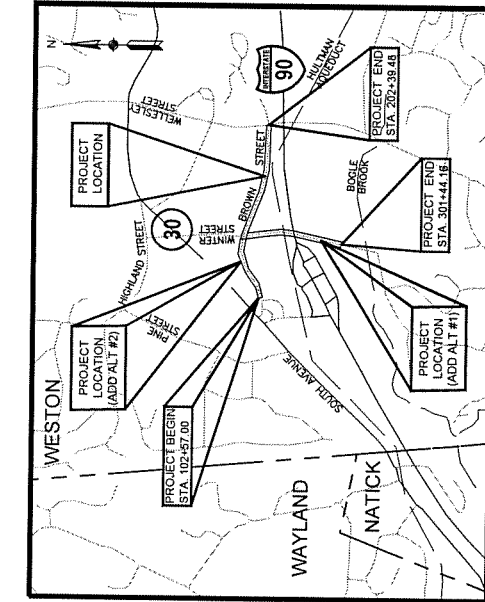
TOWN ON WESTON DEPARTMENT OF PUBLIC WORKS

BROWN STREET / WINTER STREET SIDEWALK CONSTRUCTION PROJECT

WESTON
BROWN STREET / WINTER STREET
TITLE SHEET & INDEX
SHEET 01 OF 15

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED JULY 1, 2015, THE 1988 CONSTRUCTION STANDARD DETAILS, THE 1988 CONSTRUCTION AND TRAFFIC CONTROL DETAILS (AS RELATES TO TRAFFIC STANDARD DETAILS ONLY), THE CURRENT MANUAL ON UNIFORM PRACTICES AND PROCEDURES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, THE 1988 STANDARD SPECIFICATIONS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING AND THE 1988 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK WILL GOVERN.

SHEET NO.	DESCRIPTION
01	TITLE SHEET & INDEX
02	LEGEND & ABBREVIATIONS
03	KEY PLAN
04	TYPICAL SECTIONS
05 - 07	GENERAL PLANS (BASE BID & ADD. ALTERNATE #2)
08	GENERAL PLAN AND PROFILE (BASE BID)
09 - 10	GENERAL PLANS (ADD ALTERNATE #1)
11 - 12	TEMPORARY TRAFFIC CONTROL PLANS
13	CONSTRUCTION DETAILS
14	WHEELCHAIR RAMP DETAILS
15	CROSS SECTIONS



LENGTH OF PROJECT = 4,800 FEET = 0.900 MILES

ISSUED FOR BIDDING

DESIGN DESIGNATION

DESIGN SPEED
ADT (2013)
ADT (2035)
K
D
T (PEAK HOUR)
T (AVERAGE DAY)
DHW
DDHW
FUNCTIONAL CLASSIFICATION
RURAL MINOR COLLECTOR

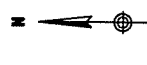
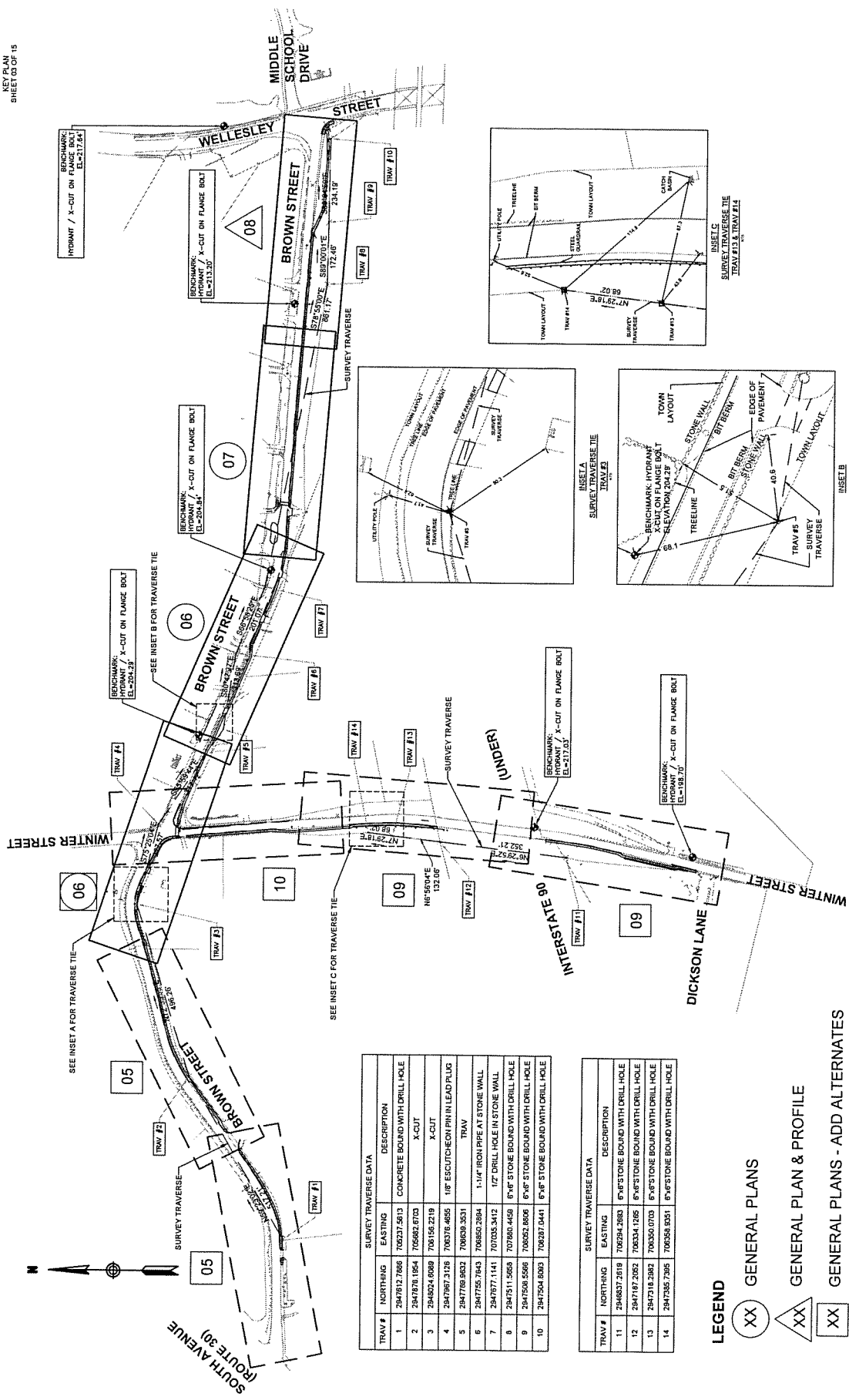
BROWN STREET
30 MPH
3,465
3,865
18% AM
85% VB
0.0%
2.1%
700 VPD
505 VPD

DATE	DESCRIPTION	REV #

vhb
VANASSE HANGEN BRUSTLIN, INC.
Transportation - Land Development
101 Walnut St., P.O. Box 8181
Woburn, MA 02472
617.924.1770 FAX 617.924.2286

PROJECT NO. 15
SHEET NO. 01 OF 15
DATE FEBRUARY 19, 2016
TIME 2:17:01

WELLESLEY
BROWN STREET (WINTER STREET)
KEY PLAN
SHEET 03 OF 15



SURVEY TRAVERSE DATA

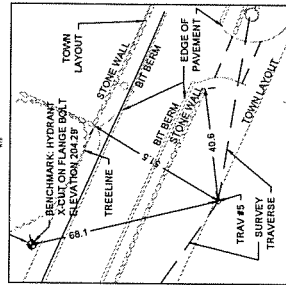
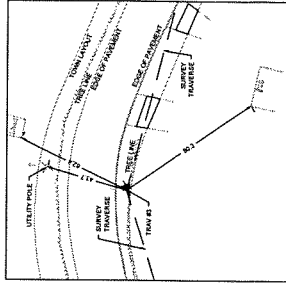
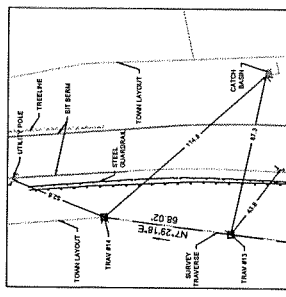
TRAV #	NORTHING	EASTING	DESCRIPTION
1	2847612.7866	705237.5913	CONCRETE BOUND WITH DRILL HOLE
2	2847878.1854	705682.0703	X-CUT
3	2848024.8689	708156.2219	X-CUT
4	2847987.3128	708376.4655	18" ESCUTCHEON PIN IN LEAD PLUG
5	2847768.9833	708639.5531	TRAV
6	2847752.7843	708650.2684	1-1/2" IRON PIPE AT STONE WALL
7	2847977.1141	707033.3412	1/2" DRILL HOLE IN STONE WALL
8	2847511.5665	707880.4458	6" X 6" STONE BOUND WITH DRILL HOLE
9	2847589.5566	708052.8506	6" X 6" STONE BOUND WITH DRILL HOLE
10	2847501.0893	708037.0441	6" X 6" STONE BOUND WITH DRILL HOLE

SURVEY TRAVERSE DATA

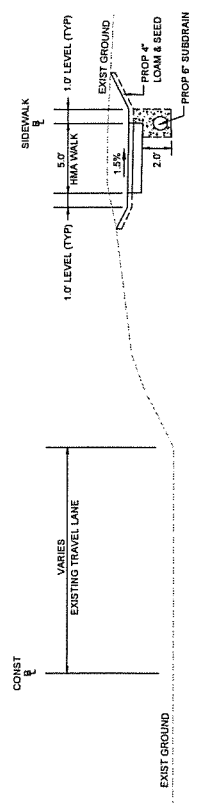
TRAV #	NORTHING	EASTING	DESCRIPTION
11	284837.2618	708294.2883	6" X 6" STONE BOUND WITH DRILL HOLE
12	2847197.2052	708334.1285	6" X 6" STONE BOUND WITH DRILL HOLE
13	2847318.2882	708350.0703	6" X 6" STONE BOUND WITH DRILL HOLE
14	2847357.7395	708358.8351	6" X 6" STONE BOUND WITH DRILL HOLE

LEGEND

- XX GENERAL PLANS
- XX GENERAL PLAN & PROFILE
- XX GENERAL PLANS - ADD ALTERNATES

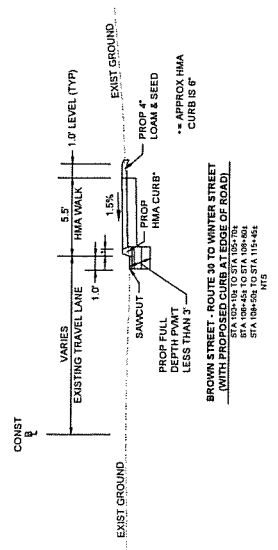
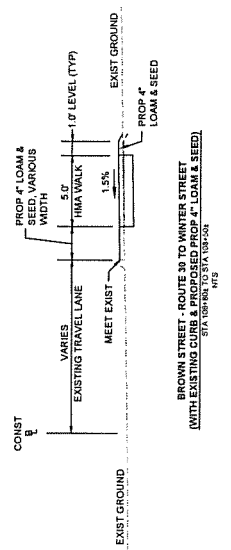
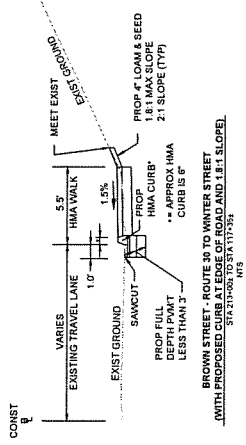


WESTON
BROWN STREET / WINTER STREET
TYPICAL SECTIONS
SHEET 04 OF 15

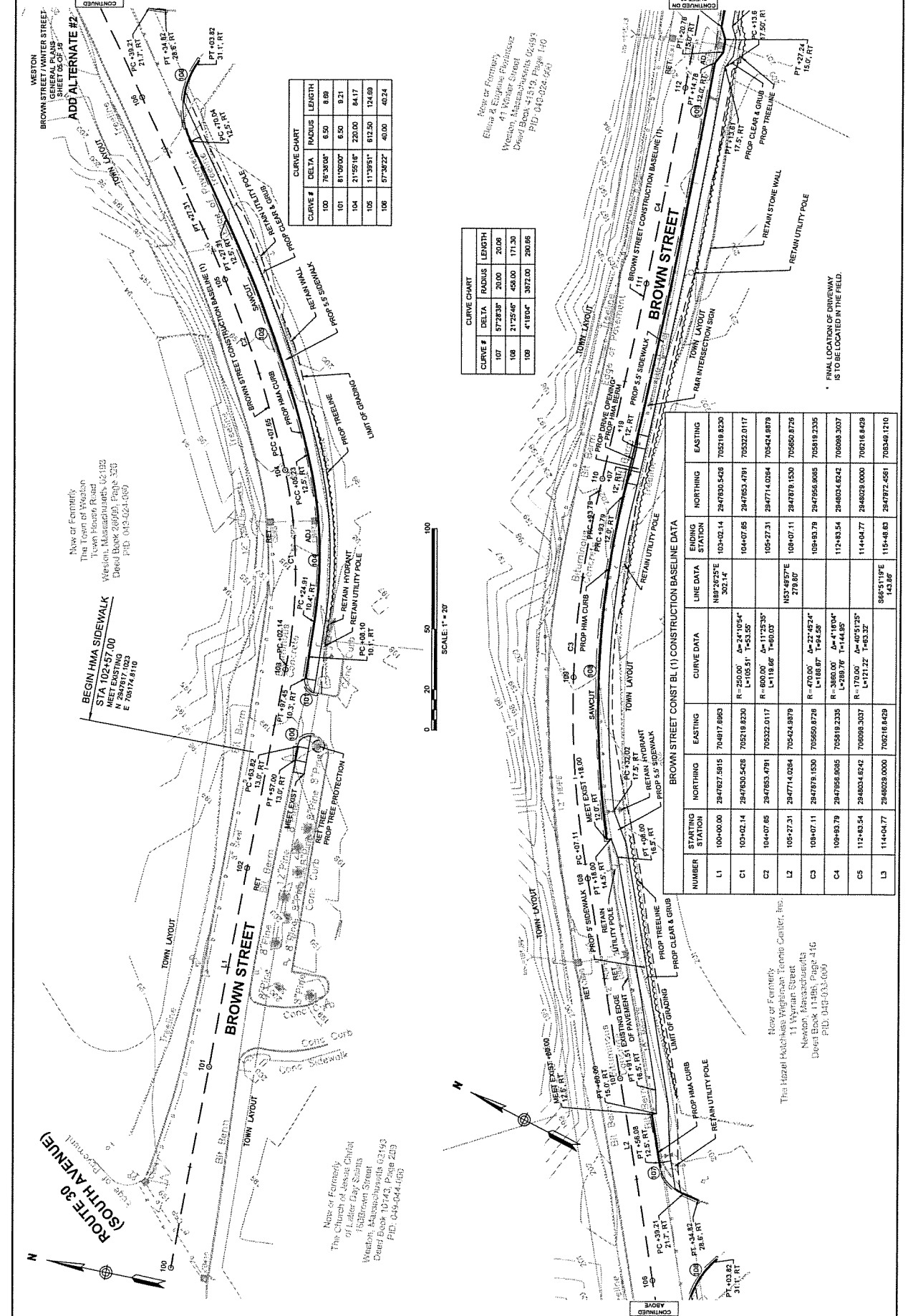


PAVEMENT NOTES

- PROPOSED FULL DEPTH PAVEMENT, LESS THAN 3 FEET SURFACE: 2" ASPHALT TOP COURSE
- INTERMEDIATE: 2" HOT MIX ASPHALT INTERMEDIATE COURSE (BINDER)
- BASE: 6" HES CEMENT CONCRETE BASE COURSE
- SUB-BASE: 8" GRAVEL BORROW, TYPE b
- PROPOSED CEMENT CONCRETE WHEELCHAIR RAMP SURFACE: 4" CEMENT CONCRETE AIR ENTRAINED 4000 PSI, X1, F10
- SUB-BASE: 8" GRAVEL BORROW, TYPE b
- PROPOSED HOT MIX ASPHALT (HMA) SIDEWALK SURFACE: 2" ASPHALT PLACE IN TWO LAYERS, 1/2" TOP COURSE OVER 1/2" BINDER COURSE
- SUB-BASE: 8" GRAVEL BORROW, TYPE b
- PROPOSED HOT MIX ASPHALT (HMA) DRIVEWAY SURFACE: 3/4" HOT MIX ASPHALT PLACE IN TWO LAYERS, 1/2" TOP COURSE OVER 1/2" BINDER COURSE
- SUB-BASE: 8" GRAVEL BORROW, TYPE b
- PROPOSED PROP 4" LOAM & SEED HMA BORROW SURFACE: 4" HMA BORROW SEEDING



- GENERAL NOTES:
1. ASPHALT EMULSION FOR TACK COAT (ITEM 484) SHALL BE SPRAY APPLIED FOR DOUBLE OVERLAP COVERAGE AT 0.05 GAL/SY OVER SMOOTH SURFACES.
 2. HMA JOINT SEALANT (ITEM 484-5) SHALL BE APPLIED IN SURFACE COURSE AT ALL COLD JOINTS PRIOR TO HMA PAVING.



ROUTE 30
(SOUTH AVENUE)

Now of Forestry
The Town of Weston
Town House Road
Weston, Massachusetts 02157
Deed Book 280991 Page 533
PID: 049-024-069

Now of Forestry
The Church of Jesus Christ
of Latter Day Saints
183 Brown Street
Weston, Massachusetts 02157
Deed Book 10743 Page 233
PID: 049-044-160

Now of Forestry
Ellis & Engle's Pointage
11 Wymon Street
Weston, Massachusetts 02157
Deed Book 41819 Page 140
PID: 049-024-069

Now of Forestry
The Hazel Hatchman Wighman Tennis Center, Inc.
11 Wymon Street
Weston, Massachusetts
Deed Book 11188 Page 416
PID: 049-030-069

CURVE #	DELTA	RADIUS	LENGTH
100	76°30'00"	6.50	8.89
101	81°50'00"	6.50	9.21
104	21°55'16"	20.00	34.17
105	11°39'51"	612.50	124.69
108	57°30'22"	40.00	40.24

CURVE #	DELTA	RADIUS	LENGTH
107	57°28'39"	20.00	20.06
108	21°25'04"	450.00	171.50
109	4°18'04"	3872.00	200.08

NUMBER	STARTING STATION		ENDING STATION		CURVE DATA	LINE DATA		EASTING		NORTHING	
	STATION	LINE DATA	STATION	LINE DATA		STARTING	ENDING	STARTING	ENDING		
L1	100+00.00	N87°32'25"E 302.14	103+02.14	N247°03'54"E 705219.8230	R=250.00' L=105.51' Δ=11°25'35"	103+02.14	2847830.5426	705219.8230	2847830.5426	705219.8230	
C1	103+02.14	R=250.00' L=105.51' Δ=11°25'35"	104+07.65	R=250.00' L=105.51' Δ=11°25'35"	R=250.00' L=105.51' Δ=11°25'35"	104+07.65	2847853.4791	705322.0117	2847853.4791	705322.0117	
C2	104+07.65	R=600.00' L=118.86' T=60.03'	105+27.31	R=600.00' L=118.86' T=60.03'	R=600.00' L=118.86' T=60.03'	105+27.31	2847714.0284	705424.9879	2847714.0284	705424.9879	
L2	105+27.31	N53°48'57"E 279.80'	106+07.11	N247°03'54"E 705650.8726	R=470.00' L=188.87' T=64.50'	106+07.11	2847879.1530	705650.8726	2847879.1530	705650.8726	
C3	106+07.11	R=470.00' L=188.87' T=64.50'	106+07.11	R=470.00' L=188.87' T=64.50'	R=470.00' L=188.87' T=64.50'	106+07.11	2847979.1530	705650.8726	2847979.1530	705650.8726	
C4	106+07.11	R=380.00' L=289.76' T=144.85'	109+93.79	R=380.00' L=289.76' T=144.85'	R=380.00' L=289.76' T=144.85'	109+93.79	2847956.9085	705819.2335	2847956.9085	705819.2335	
C5	109+93.79	R=380.00' L=289.76' T=144.85'	112+43.54	R=380.00' L=289.76' T=144.85'	R=380.00' L=289.76' T=144.85'	112+43.54	2848034.6242	706096.3037	2848034.6242	706096.3037	
L3	114+04.77	R=170.00' L=121.22' T=63.33'	114+04.77	R=170.00' L=121.22' T=63.33'	R=170.00' L=121.22' T=63.33'	114+04.77	2848029.0000	706216.8429	2848029.0000	706216.8429	
		S86°51'19"E 143.89'	115+46.63	S86°51'19"E 143.89'		115+46.63	2847972.4581	705346.1210	2847972.4581	705346.1210	



FINAL LOCATION OF DRIVEWAY IS TO BE LOCATED IN THE FIELD.

WESTON
BROWN STREET/WINTER STREET
GENERAL PLANS
SHEET 06 OF 15

CURVE #	DELTA	RADIUS	LENGTH
110	40°32'25"	150.00	112.87
111	58°21'47"	50.00	50.83
112	75°31'31"	8.00	10.54
113	117°42'11"	22.00	45.18

New or Formerly
Jonathan B Altano
83 Brown Street
Weston, Massachusetts 02453
Direct Book 34653, Page 306
PID: 049-030-000

New or Formerly
Amy R & Rick S Shevchuk
40 Winter Street
Weston, Massachusetts 02453
Direct Book 34653, Page 415
PID: 049-030-000

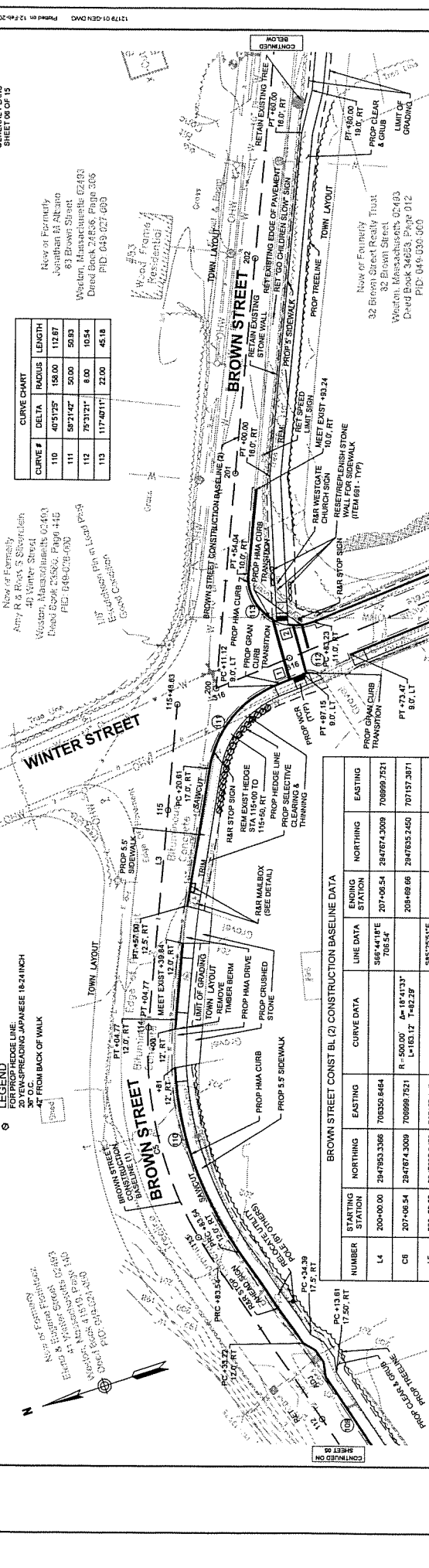
New or Formerly
Greek Orthodox Church
85 Brown Street
Weston, Massachusetts 02453
Direct Book 34653, Page 248
PID: 049-030-000

New or Formerly
Beverly L. Jarkhan
74 Brown Street
Weston, Massachusetts 02453
Direct Book 34653, Page 565
PID: 049-030-000

New or Formerly
David M & Royce M Wharff
74 Brown Street
Weston, Massachusetts 02453
Direct Book 34653, Page 565
PID: 049-030-000

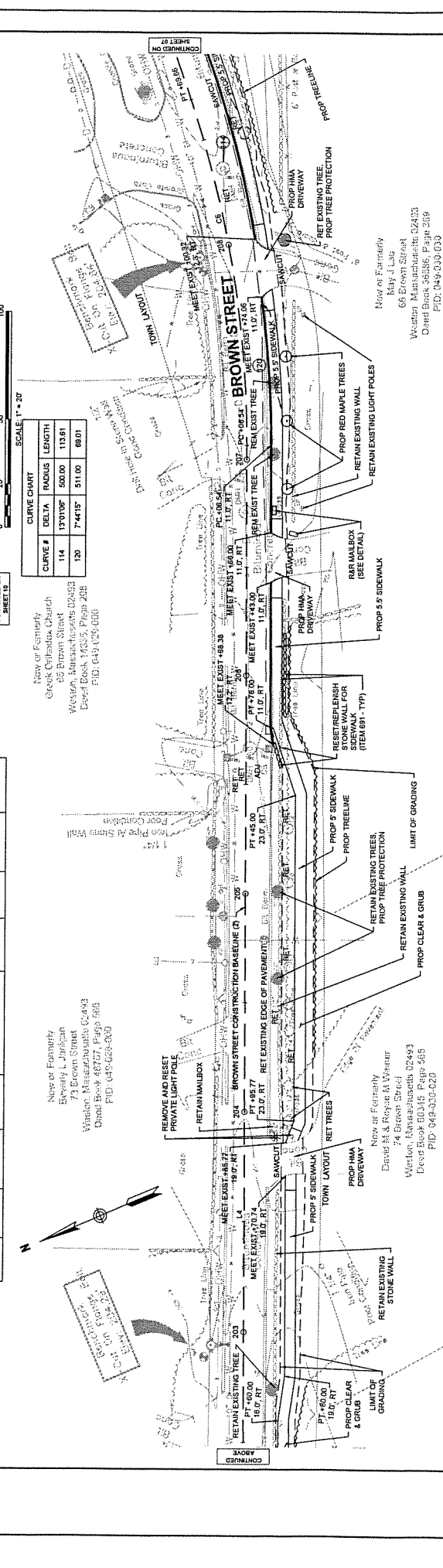
New or Formerly
Wood Frame Residential
115 Brown Street
Weston, Massachusetts 02453
Direct Book 34653, Page 609
PID: 049-030-000

New or Formerly
Wood Frame Residential
115 Brown Street
Weston, Massachusetts 02453
Direct Book 34653, Page 609
PID: 049-030-000



BROWN STREET CONST BL (2) CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L4	200+00.00	2847953.3366	708350.6484	R=500.00 L=163.12	S88°44'18"E 708.54	207+06.54	2847874.3009	708999.7521
CE	207+06.54	2847874.3009	708999.7521	R=500.00 L=163.12	Δ=18°41'33" L=163.12	208+69.96	2847835.2450	707157.3871
L5	208+69.96	2847835.2450	707157.3871		S85°29'51"E 1267.74	220+70.41	2847538.5807	703354.3146



CURVE #	DELTA	RADIUS	LENGTH
114	1°01'00"	500.00	113.81
120	7°44'15"	511.00	88.01

New or Formerly
David M & Royce M Wharff
74 Brown Street
Weston, Massachusetts 02453
Direct Book 34653, Page 565
PID: 049-030-000

New or Formerly
David M & Royce M Wharff
74 Brown Street
Weston, Massachusetts 02453
Direct Book 34653, Page 565
PID: 049-030-000

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Weston, Massachusetts 02453
Direct Book 34653, Page 565
PID: 049-030-000

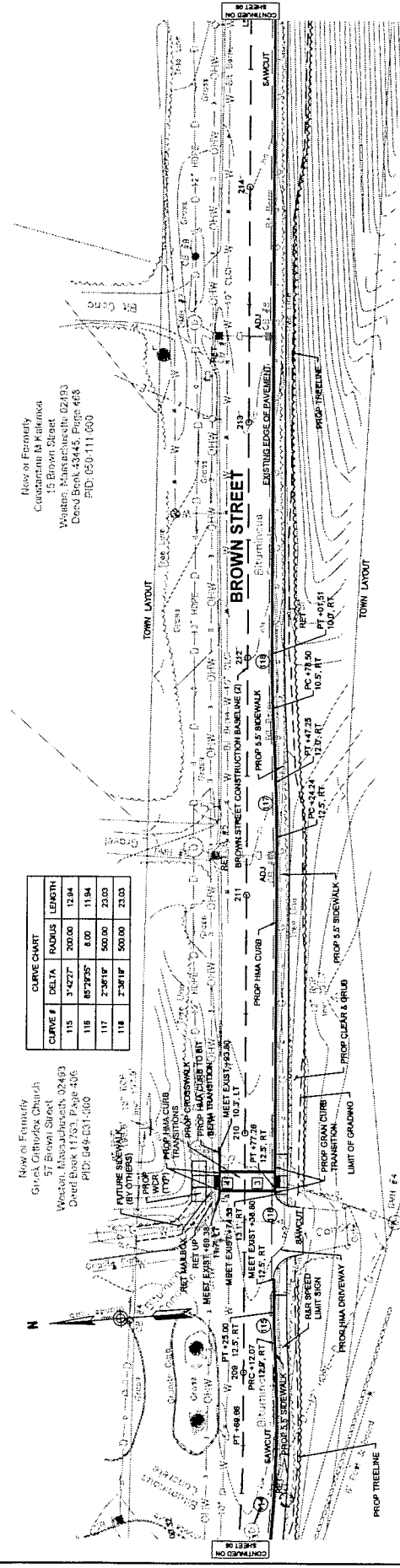
New or Formerly
David M & Royce M Wharff
74 Brown Street
Weston, Massachusetts 02453
Direct Book 34653, Page 565
PID: 049-030-000

WESTON
BROWN STREET / WINTER STREET
GENERAL PLANS
SHEET 07 OF 15

New or Formerly
Constantine & Kallimera
15 Brown Street
Weston, Massachusetts 02493
Cell No. 43043, Page 468
PID: 0591111030

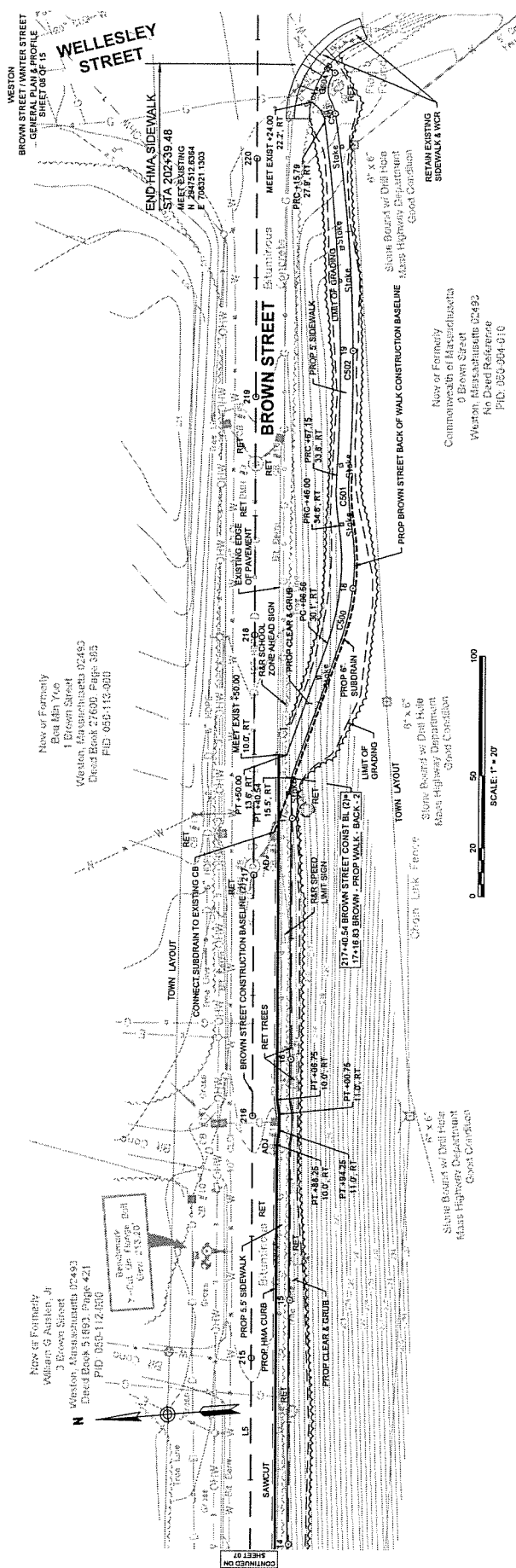
New or Formerly
Greek Orthodox Church
57 Brown Street
Weston, Massachusetts 02493
Cell No. 43043, Page 406
PID: 0494331400

CURVE #	DELTA	RADIUS	LENGTH
115	3°42'27"	200.00	12.94
116	8°37'25"	5.00	11.94
117	2°36'18"	500.00	23.03
118	2°36'18"	500.00	23.03



New or Formerly
Commonwealth of Massachusetts
9 Brown Street
Weston, Massachusetts 02493
No Deed Reference
PID: 059404 010



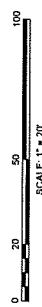


Now of Formally
 East Main Yoc
 1 Brown Street
 Weston, Massachusetts 02453
 District 27600, Page 365
 PID: 053-112-001

Now of Formally
 William G. Austin, Jr.
 3 Brown Street
 Weston, Massachusetts 02453
 District 27600, Page 421
 PID: 053-112-000

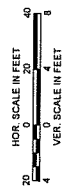
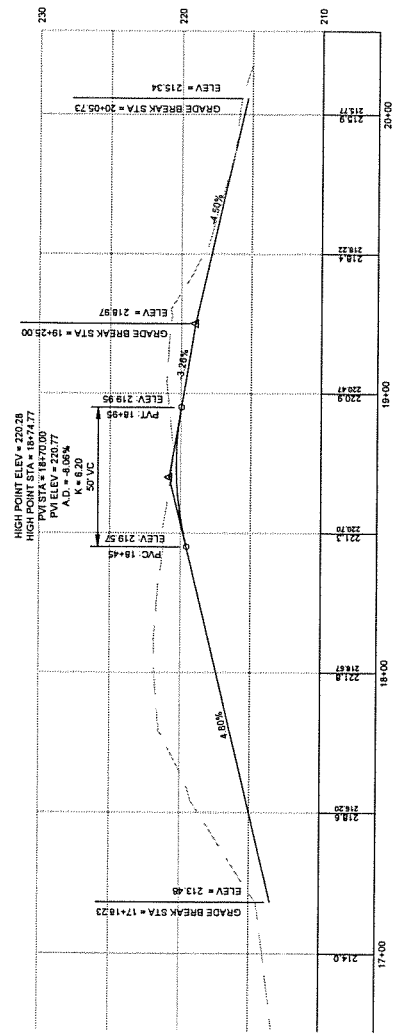
Now of Formally
 Commonwealth of Massachusetts
 Office of Transportation
 Weston, Massachusetts 02453
 No Dated Reference
 PID: 053-054-010

Now of Formally
 Commonwealth of Massachusetts
 Office of Transportation
 Weston, Massachusetts 02453
 No Dated Reference
 PID: 053-054-010



BROWN - PROP WALK - BACK - 2 CONSTRUCTION BASELINE DATA

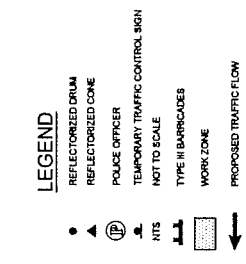
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C500	17+74.43	2847528.6000	708127.8600	R=106.01' Δ=28°20'06" L=62.43 T=25.76'		18+26.85	2847517.7866	708127.9649
C501	18+26.85	2847517.7866	708127.8649	R=64.00' Δ=12°53'01" L=20.37 T=10.23'		18+47.22	2847517.1561	708148.3168
C502	18+47.22	2847517.1561	708148.3168	R=756.00' Δ=11°28'18" L=151.58 T=76.05'		19+98.81	2847511.2200	708296.5313
C503	19+98.81	2847511.2200	708296.5313	R=20.00' Δ=18°48'13" L=6.82 T=3.48'		20+05.73	2847512.8285	708306.2277
C504	20+05.73	2847512.8285	708306.2277	R=10.00' Δ=87°41'38" L=10.84 T=6.09'		20+16.87	2847511.3759	708316.5302



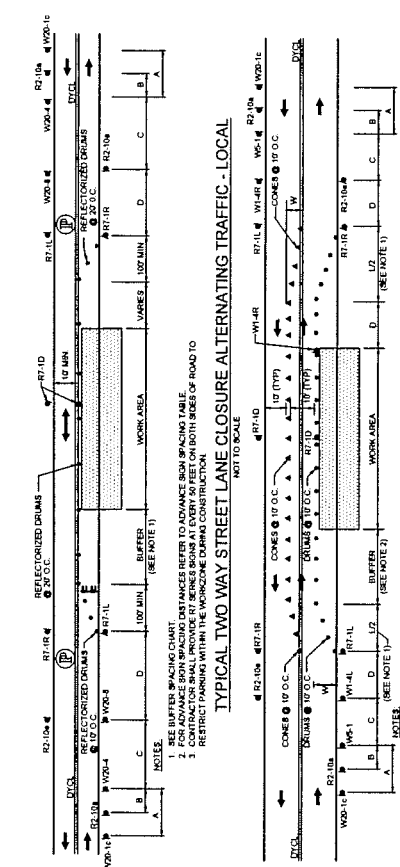
PROPOSED PROFILE AT BACK OF BROWN STREET WALK CONNECTING TO WELLESLEY STREET SIDEWALK

GENERAL NOTES

- ALL CONSTRUCTION SIGNS, TEMPORARY TRAFFIC CONTROL DEVICES, AND BARRIERS ELONGATE SHALL CONFORM WITH THE 2008 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS AMENDED BY THE LATEST REVISION OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, (AASHTO) ROADSIDE DESIGN GUIDE, NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) 350 ON THE TABULAR FOR ASSIGNING SAFETY TREATMENT (MUTCD).
- ALL DRUMS SHALL BE SET AT 20' ON CENTER MAX. UNLESS OTHERWISE NOTED OR ADJUSTED BY THE ENGINEER.
- ALL DRUMS SHALL BE APPROXIMATELY PLACED AND MOVED AS NECESSARY TO MAINTAIN ADEQUATE CLEARANCE FOR THE WORK AREA. DRUMS SHALL BE PLACED AT THE BEGINNING AND END OF THE WORK AREA AND AT 100' INTERVALS THROUGHOUT THE WORK AREA. DRUMS SHALL BE PLACED AT THE BEGINNING AND END OF THE WORK AREA AND AT 100' INTERVALS THROUGHOUT THE WORK AREA. DRUMS SHALL BE PLACED AT THE BEGINNING AND END OF THE WORK AREA AND AT 100' INTERVALS THROUGHOUT THE WORK AREA.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND FROM ALL ADJACENT PROPERTIES WITHIN THE PROJECT LIMITS AT ALL TIMES. IF AN ADJUTERS ACCESS SHOULD NEED TO BE RESTRICTED TO COMPLETE THE WORK, THE CONTRACTOR SHALL COORDINATE SUCH RESTRICTIONS WITH THE IMPACTED ADJUTERS AND THE ENGINEER AT A MINIMUM 48 HOURS IN ADVANCE OF THE START OF ANY SUCH WORK.
- GRADE SEPARATIONS IN EXCESS OF 2' DURING NON-WORKING HOURS WILL REQUIRE DELINEATION BY USE OF DRUMS.
- EXCAVATION EDGES IN EXCESS OF 4' DEEP SHALL BE PROTECTED DURING NON-WORKING HOURS BY BACKFILLING WITH A WEDGE OF GRAVEL OR SOIL TO COMPACTED 4:1 SLOPE.
- EXCAVATIONS GREATER THEN 3 FEET DEEP ADJACENT TO TRAFFIC SHALL BE PROTECTED WITH TEMPORARY CONCRETE BARRIER IN ACCORDANCE WITH MASSDOT STANDARDS.
- MINIMUM LANE WIDTHS SHALL BE MAINTAINED ON ALL ROADWAYS AT ALL TIMES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE COVERED OR REMOVED DURING NON-WORKING HOURS WHEN NOT IN USE.
- SIGNS INSTALLED ON PORTABLE STANDS REQUIRE 12 INCH MINIMUM MOUNTING HEIGHT FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE SIGN.
- SIGNS INSTALLED ON PORTABLE STANDS PLACED MARKS CHANGELANES OR TRUCKS REQUIRE A 36 INCH MINIMUM MOUNTING HEIGHT FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE SIGN.
- SIGNS MOUNTED ON POSTS REQUIRE A MINIMUM 4 INCH MOUNTING HEIGHT FROM THE ROADWAY OR SIDEWALK SURFACE TO THE BOTTOM OF THE SIGN.
- TEMPORARY PAVEMENT MARKINGS SHALL BE WATER-BORNE PAINT. MARKINGS SHALL BE CLEARLY VISIBLE AT ALL TIMES. THE CONTRACTOR SHALL REFRESH THE MARKINGS AS NEEDED OR AS DIRECTED BY THE ENGINEER.
- THE FIRST TEMPORARY TRAFFIC CONTROL DEVICES ON TAPERS SHALL BE REFLECTORIZED DRUMS WITH TYPE II STEADY BURN LIGHTS.
- TRAFFIC CONES SHALL BE A MINIMUM OF 30 INCHES IN HEIGHT.
- CONES MAY BE USED IN LIEU OF DRUMS OUTSIDE OF THOSE REQUIRED FOR TAPERS.
- ADVISORY SPEED PLATES (W13-1P) SHALL BE USED IF APPROPRIATE AND AS REQUESTED BY THE ENGINEER.
- NO WORK SHALL OCCUR WITHIN THE PUBLIC WAY ON STATE OR COUNTY RECOGNIZED HOLIDAYS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- W13-1C SIGNS SHOWN ON ADVANCE SIGN SCHEMATIC MAY BE USED IN LIEU OF W13-1C SIGNS SHOWN ON TYPICAL DETAILS ON THE TRAFFIC MANAGEMENT PLANS IF MINIMUM SIGN SPACING IS MET.
- CONTRACTOR SHALL MAINTAIN ONE (1) LANE OF TRAVEL IN EACH DIRECTION OF TRAVEL ON ALL ROADWAYS AT ALL TIMES UNLESS OTHERWISE SPECIFIED HEREIN OR APPROVED BY THE TOWN OF WESTON.
- CONTRACTOR SHALL BE REQUIRED TO OBTAIN STREET CLOSING PERMIT PRIOR TO START OF CONSTRUCTION FROM THE TOWN. WORK HOURS SHALL BE AS APPROVED IN THE CONTRACTORS PERMIT. WORK SHALL NOT AFFECT THE PUBLIC WAY DURING PEAK TRAFFIC PERIODS AT A MINIMUM. PEAK TRAFFIC PERIODS SHALL BE DETERMINED BY THE ENGINEER. WORK HOURS SHALL BE AS APPROVED IN THE CONTRACTORS PERMIT. WORK SHALL NOT AFFECT THE PUBLIC WAY DURING PEAK TRAFFIC PERIODS AT A MINIMUM. PEAK TRAFFIC PERIODS SHALL BE DETERMINED BY THE ENGINEER. WORK HOURS SHALL BE AS APPROVED IN THE CONTRACTORS PERMIT.
- POLICE DETAILS ARE REQUIRED AT ROADWAY INTERSECTIONS TO CONTROL TRAFFIC AND AS REQUIRED BY THE ENGINEER.
- THERE IS NO DESIGNATED BI-CYCLE LANE WITHIN THE PROJECT LIMITS. THEREFORE, NO SEPARATE BI-CYCLE ACCOMMODATIONS HAVE BEEN PROVIDED.
- ALL WORK AREAS SHALL BE SECURED BY AN APPROPRIATE METHOD APPROVED BY THE ENGINEER AT ALL TIMES TO PREVENT UNAUTHORIZED ACCESS.

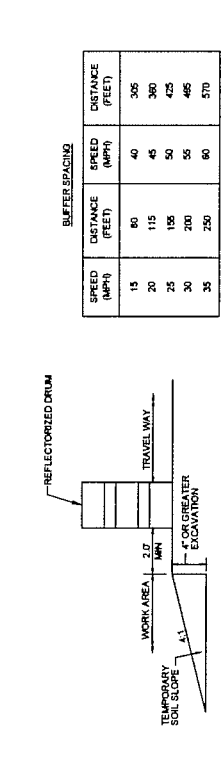


OPERATIONAL SIGNING



TYPICAL TWO WAY STREET LANE CLOSURE ALTERNATING TRAFFIC - LOCAL
NOT TO SCALE

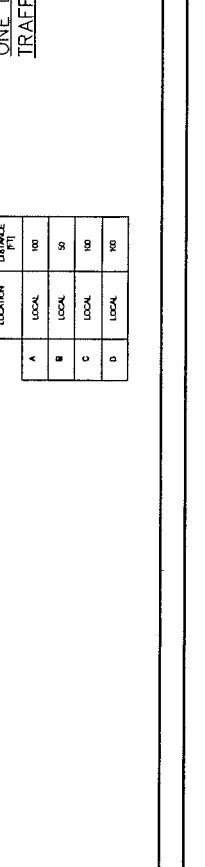
TYPICAL TWO WAY STREET LANE SHIFT - LOCAL



ROADWAY SLOPE PROTECTION
NOT TO SCALE



ONE LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS
NOT TO SCALE



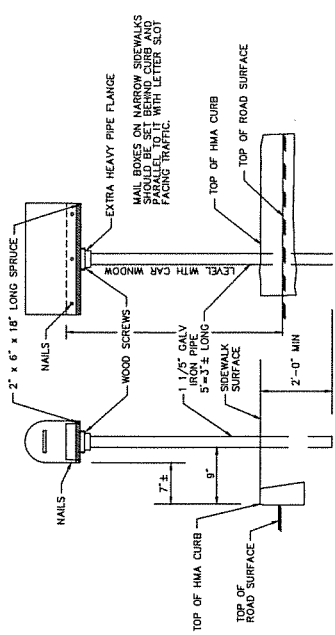
- NOTE:
- ADVANCE WARNING SIGN PLACEMENT TO BE ADJUSTED AS NECESSARY TO MAINTAIN 1 DEEP.
 - ADVANCE WARNING SIGN PLACEMENT TO BE PROTECTED BY TEMPORARY CONCRETE BARRIER.

FOR POSTED SPEEDS OF 50 MPH OR LESS:
L = 1.47 * S * S
L = 1.47 * 50 * 50 = 367.5
S = POSTED SPEED LIMIT

TEMPORARY TRAFFIC CONTROL SIGNS

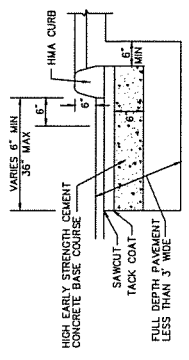
IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	COLOR		TEXT DIMENSIONS (INCHES)		
	WIDTH	HEIGHT		BACKGROUND	LEGEND	LETTER HEIGHT	VERTICAL SPACING	ARROW
R2-10a	48"	36"		ORANGE	BLACK	SEE MASSDOT STANDARDS		
R2-10b	36"	48"		ORANGE	BLACK			
R7-10	12"	18"		WHITE	RED	SEE FHWA STANDARD HIGHWAY SIGNS, 2004 EDITION, AS AMENDED.		
R7-11	12"	18"		WHITE	RED			
R7-1R	12"	18"		WHITE	RED			
W1-4L	36"	36"		ORANGE	BLACK			
W1-4R	36"	36"		ORANGE	BLACK			
W3-4	36"	36"		ORANGE	BLACK			
W5-1	36"	36"		ORANGE	BLACK			
W20-1c	36"	36"		ORANGE	BLACK			
W20-4	36"	36"		ORANGE	BLACK			
W20-8	36"	36"		ORANGE	BLACK	SEE FHWA STANDARD HIGHWAY SIGNS, 2004 EDITION, AS AMENDED.		

NOTES:
1. HIGH INTENSITY REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. SEE FHWA STANDARD HIGHWAY SIGNS, 2004 EDITION, FOR ALL TEXT DIMENSIONS, AS AMENDED; THE 1977 MASSHIGHWAY DEPARTMENT CONSTRUCTION AND TRAFFIC SIGNAGE DETAILS, AS AMENDED; FOR SIGNS AND SUPPORTS; AND THE MASSHIGHWAY DEPARTMENT SIGN LISTINGS 1993 EDITION, AS AMENDED.

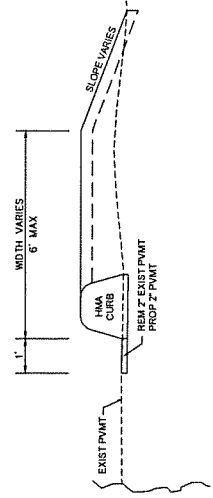


- NOTES:**
1. LUMBER TO BE FLANGED ON ALL FOUR SIDES TO FULL 7' x 6" SIZE TO FIT BOTTOM OF MAIL BOXES.
 2. TO SET 1 1/2" GALVANIZED PIPE POST, USE DRIVING POINT OF SAME SIZE, THEN TEMP POST INTO PLACE SO AS TO BE PLUMB BOTH WAYS.
 3. ALL FITTINGS (PIPE FLANGES, PIPE, SCREWS, NAILS, ETC.) ARE TO BE GALVANIZED.
 4. A 4' x 4' PRESURE TREATED WOOD POST MAY BE SUBSTITUTED FOR A PIPE POST.

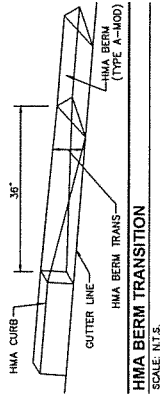
SETTING RURAL MAILBOXES
SCALE: N.T.S.



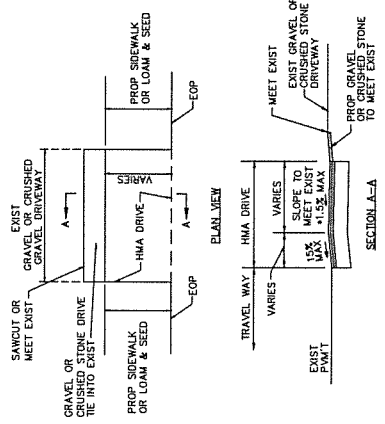
HMA CURB IN FULL DEPTH PAVEMENT (LESS THAN 3")
SCALE: N.T.S.



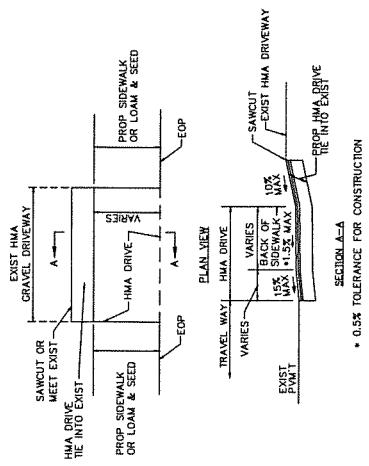
HMA CURB ON EXISTING PAVEMENT
DATE: JUNE 2014
DWG: CURB-15
SCALE: N.T.S.



HMA BERM TRANSITION
SCALE: N.T.S.



TYPICAL GRAVEL DRIVEWAY
SCALE: N.T.S.



TYPICAL HMA DRIVEWAY
SCALE: N.T.S.
* 0.5% TOLERANCE FOR CONSTRUCTION

