

CITY OF BOSTON PUBLIC WORKS DEPARTMENT

HON. MARTIN J. WALSH - MAYOR

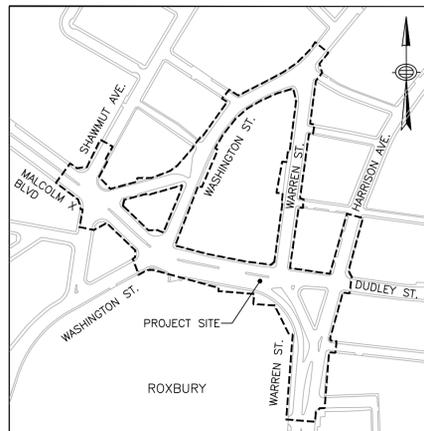
CHRIS OSGOOD - CHIEF OF STREETS, TRANSPORTATION, AND SANITATION

CAPITAL IMPROVEMENT PROJECT XX-XX

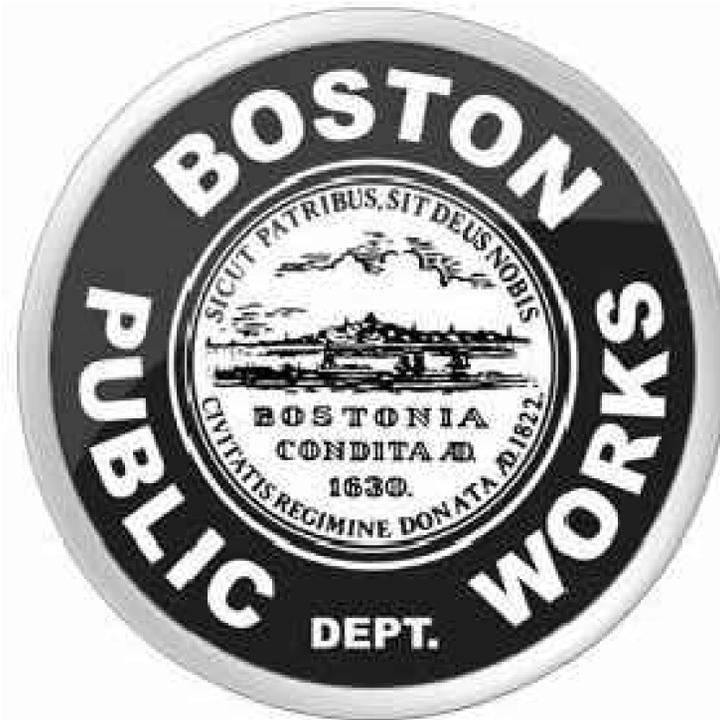
DUDLEY SQUARE COMPLETE STREETS IMPROVEMENTS - PHASE 2

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LOCUS MAP
1" = 300'



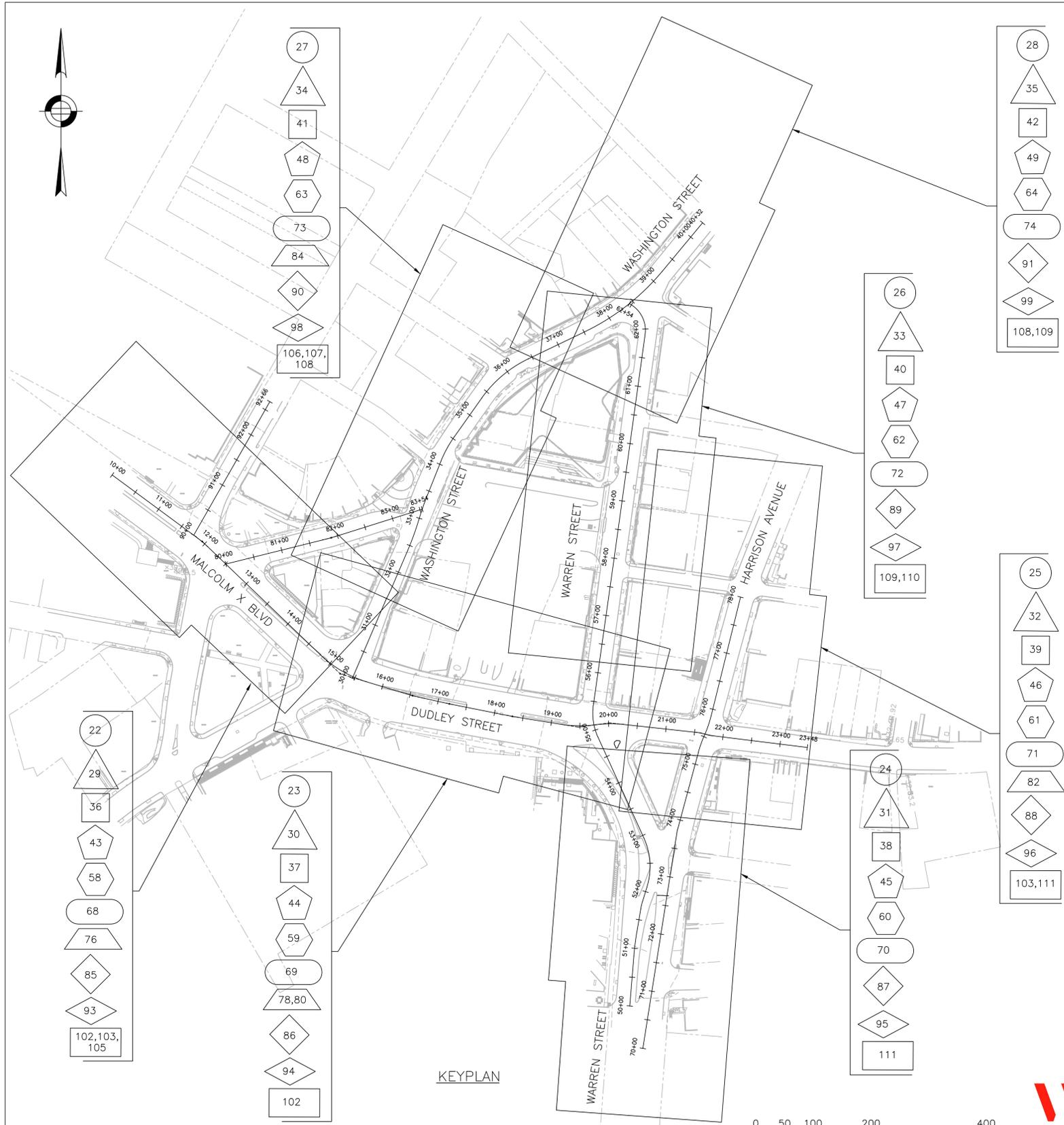
PLANS PREPARED BY:
WSP USA

R-XXXX-1

APPROVED:

CHIEF OF STREETS, TRANSPORTATION, & SANITATION

DATE



- # CONSTRUCTION PLANS
- # CURB TIE PLANS
- # DRAINAGE & UTILITIES PLANS
- # GRADING PLANS
- # GREEN INFRASTRUCTURE PLANS
- # PAVEMENT MARKINGS & SIGNAGE PLANS
- # TRAFFIC SIGNAL PLANS
- # LANDSCAPE PLANS – PLANTING PLANS
- # STREET LIGHTING PLANS
- # CMP PLANS

KEYPLAN



SURVEY BY BRYANT ASSOCIATES
 DRAWN BY N. BELLONE
 CHECKED BY F. FUSCO
 APPROVED BY A. SANTORO

CIP XX-XX SHEET 2 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION

DUDLEY SQUARE PHASE 2
KEY PLAN
 ROXBURY

SCALE: 1" = 100'
 DISTRICT: 10

AREA: 1
 DATE: FEB. 7, 2019

 CITY ENGINEER

R-XXXX-2

LEGEND

	35.5	EXISTING CONTOUR
	STM	STEAM LINE
	OHW	OVERHEAD WIRES
	D	SURFACE DRAIN
	S	SANITARY SEWER
	C	CABLE TELEVISION
	T&F	TELEPHONE AND FIRE ALARM
	G	GAS
	E	ELECTRIC
	M	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
	CS	COMBINED SEWER
	T	TELEPHONE
	W	WATER MAIN
	SL/FA/TC	STREET LIGHTING, FIRE AND TRAFFIC CONTROL
	MF	METAL FENCE
	IFE	IRON FENCE
	CLF	CHAIN LINK FENCE
		BUILDING
		ABANDONED MBTA RAIL LINES
	BOL	BOLLARD
	BWW	BOSTON WATER WORKS
	CATV	CABLE TV
	CB	CATCH BASIN
	DMH	DRAIN MANHOLE
	EHH	ELECTRIC HAND HOLE
	EHH	ELECTRIC HANDHOLE FOR OTHERS
	EMH	ELECTRIC MANHOLE
	FA	FIRE ALARM
	PHONE	TELEPHONE
	FLP	FLAG POLE
	FLGT	FLOOD LIGHT
	FL	FOOT LIGHT
	GM	GAS METER
	GG	GAS GATE
	GP	GATE POST
	HC	HANDICAP PARKING
	GW	GUY WIRE
	HH	HANDHOLE
	HYD	HYDRANT
	ICV	IRRIGATION WATER VALVE
	LP	LIGHT POLE
	LPG	LIGHT POLE GAS
	MH	MANHOLE
	MBTAMH	MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
	OBWL	OBSERVATION WELL
	PB	PULL BOX
	SMH	SANITARY SEWER MANHOLE
	SIGN	SIGN
	SPKLR	SPRINKLER
	SLCB	STREET LIGHT CONTROL BOX
	STMH	STEAM MANHOLE
	SP	STEEL POST
	SLP	STREET LIGHT POLE
	TMH	TELEPHONE MANHOLE
	TRFC	TRAFFIC POLE (COMBINED)
	TRFP	TRAFFIC POLE (PEDESTRIAN)
	TRFV	TRAFFIC POLE (VEHICULAR)
	TRCB	TRAFFIC CONTROL BOX
	UP	UTILITY POLE
	WG	WATER GATE
	B	TREE (BIRCH)
	DCID	TREE (GENERIC)
	M	TREE (MAPLE)
	MA	TREE (MOUNTAIN ASH)
	SUMAC	TREE (SUMAC)
	SYC	TREE (SYCAMORE)
		GRANITE BOUND

ABBREVIATIONS

ABND	ABANDONED
B	BOTTOM
BSW	BACK OF SIDEWALK
BC	BOTTOM CURB
BW	BOTTOM WALL
(BO)	BASE ONLY
B-RACK	BIKE RACK
BIT	BITUMINOUS CONCRETE
BP	BITUMINOUS PATCH
BW	BOTTOM WALL
BRK	BRICK
BWL	BROKEN WHITE LINE
(C)	CLOGGED
CI	CAST IRON PIPE
CONC	CONCRETE
CCS	CONCRETE CURB STOP
CP	CONCRETE PAD
CU	CONNECTION UNKNOWN
CWS	COVERED WOOD STOOP
DC	DOOR CENTERLINE
DBL	DOUBLE
DICL	DUCTILE IRON CEMENT LINED PIPE
DYL	DOUBLE YELLOW LINE
EP	EDGE OF PAVEMENT
(F)	FILLED
FF	FINISHED FLOOR
FD	FLOOR DRAIN
GP	GATE POST
GRAN	GRANITE
H.R.	HANDRAIL
I	INVERT
(M)	FIELD MEASUREMENT
MP	METAL PLATE
MET	METAL
NPV	NO PIPES VISIBLE
O.H.	OVERHANG
PGL	PAINTED GAS LINE
PEL	PAINTED ELECTRIC LINE
PTL	PAINTED TELEPHONE LINE
PWL	PAINTED WATER LINE
PCI	PIT CAST IRON PIPE
PLNTR	PLANTER
PL	PLASTIC PIPE
PROP	PROPOSED
PVC	POLYVINYL CHLORIDE
(R)	RECORD
R	RIM
R.R	RAILROAD TIE WALL
RCD	RECESSED
RCP	REINFORCED CONCRETE PIPE
RET	RETAINING
RD	ROOF DRAIN
S	SUMP
SH	SHELF
STY	STORY
SWL	SOLID WHITE LINE
SYL	SOLID YELLOW LINE
TS	TACTILE STRIP
TC	TOP CURB
TD	TOP DEBRIS
TT	TOP TRAP
TW	TOP WALL
TOW	TOP OF WATER
T-BIN	TRASH BIN
TYP	TYPICAL
UPSR	UTILITY POLE SERVICE RISER
VERT	VERTICAL
VCG	VERTICAL CONCRETE CURB
VGC	VERTICAL GRANITE CURB
WCR	WHEELCHAIR RAMP
WD	WOOD
X-WALK	CROSSWALK
ADJ	ADJUST
ABAN.	ABANDON
RET.	RETAIN
REM.	REMOVE
R&D	REMOVE & DISCARD
R&S	REMOVE & STACK
R&R	REMOVE & RESET
R&T	REMOVE & TRANSPORT
N.I.C.	NOT IN CONTRACT
B.O.	BY OTHERS
F & C	FRAME AND COVER
F & G	FRAME AND GRATE
R.C.P.	REINFORCED CONCRETE PIPE
D.I.P.	DUCTILE IRON PIPE
PBS	PLANTABLE SOIL BORROW
TS	TRAFFIC SIGNAL
C.I.T.	CHANGE IN TYPE

STREET FURNITURE LEGEND

PROPOSED	EXISTING	DESCRIPTION
		SIGN POST
		BOLLARD
		HYDRANT
		MAILBOX
		FIRE ALARM BOX
		WHEELCHAIR RAMP

STREET LIGHTING LEGEND

	A●	PROPOSED STREET LIGHTING TWIN ACORN FIXTURE WITH SUBBASE
	B1●	PROPOSED STREET LIGHTING STANDARD TWIN PENDANT FIXTURE WITH SUBBASE
	B2●	PROPOSED STREET LIGHTING HIGH LOW TWIN PENDANT FIXTURE WITH SUBBASE
	C●	PROPOSED STREET LIGHTING STANDARD SINGLE PENDANT FIXTURE WITH SUBBASE
	□	PROPOSED STREET LIGHTING PULL BOX
	⊕	EXISTING POLE/STREET LIGHT
	■	EXISTING STREET LIGHTING PULL BOX
	- 2" or 3" -	PROPOSED 2" OR 3" STREET LIGHTING CONDUIT
	▨ 3" ▨	PROPOSED 3" CONCRETE ENCASED CONDUIT
	▩	PROPOSED LIGHTING CONTROL CABINET
	— SL —	EXISTING STREET LIGHT CONDUIT
	▩	EXISTING LIGHTING CONTROL CABINET

TRAFFIC SIGNAL LEGEND

PROPOSED	EXISTING (TO REMAIN)	REMOVE/ABANDON	DESCRIPTION
			CONTROLLER CABINET
			SIGNAL POST
			MAST ARM
			VEHICULAR SIGNAL
			PEDESTRIAN SIGNAL
			PAN TILT ZOOM CAMERA
			PEDESTRIAN PUSH BUTTON
			AUDIBLE PEDESTRIAN PUSH BUTTON
			PULL BOX
			CONDUIT
			LOOP DETECTOR

PAVEMENT MARKING LEGEND

	SWEL	4" SOLID WHITE EDGE LINE
	SYEL	4" SOLID YELLOW EDGE LINE
	SWLL	4" SOLID WHITE LANE LINE
	BWLL	4" BROKEN WHITE LANE LINE 10' MARK - 20' SKIP
	DWLL	4" DOTTED WHITE LANE LINE 2' MARK - 4' SKIP
	SWCHL	8" SOLID WHITE CHANNELIZATION LINE
	SYCHL	8" SOLID YELLOW CHANNELIZATION LINE
	DYCL	2-4" YELLOW CENTER LINES, 4" GAP
	SL	WHITE STOP LINE (24" UNLESS OTHERWISE SPECIFIED)
	CW	WHITE - CROSS WALK (12" LINES, 10' O.C.; 12" LONGITUDINAL LINES, 4' O.C.) (UNLESS OTHERWISE SHOWN)
	SWCHL	8" SOLID WHITE CHANNELIZATION (5' O.C. @45°).
	DDYCL	4" DOTTED YELLOW CENTER LINES, 4" GAP 2' MARK - 4' SKIP

CIP XX-XX SHEET 4 OF 117

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	S. BERGMAN
CHECKED BY	F. FUSCO
APPROVED BY	A. SANTORO

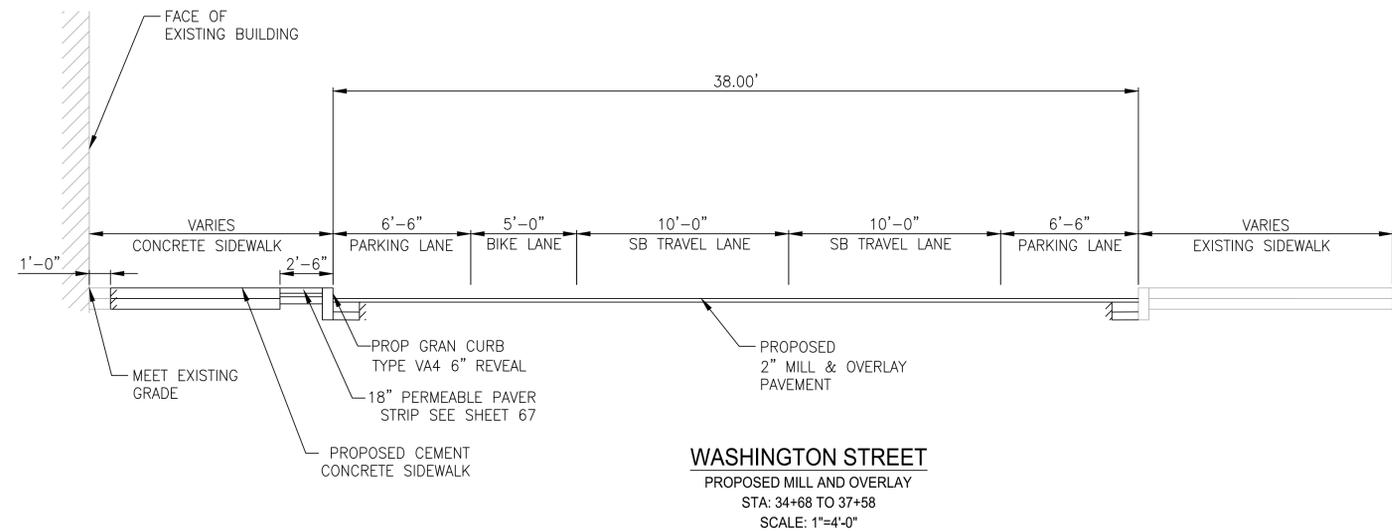
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ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

DUDLEY SQUARE PHASE 2
ABBREVIATIONS AND LEGEND
ROXBURY

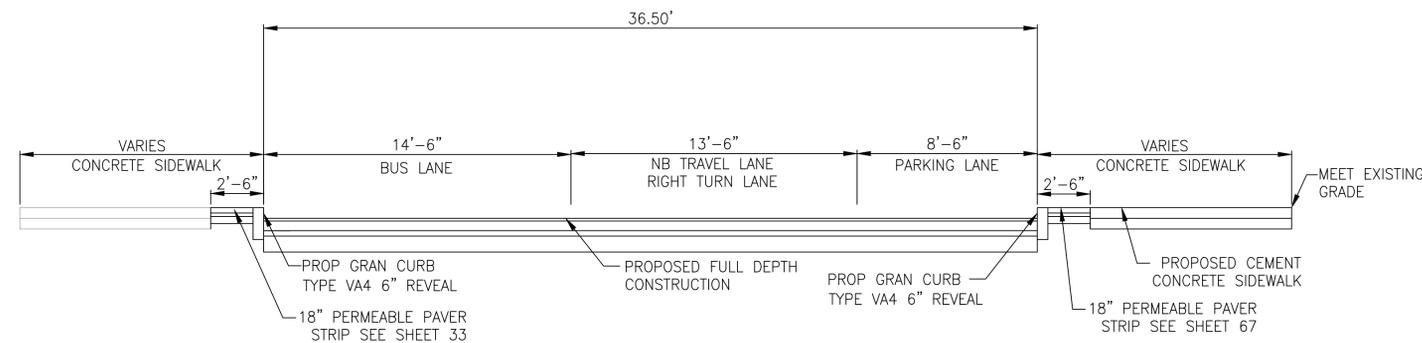
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DISTRICT: 10 DATE: FEB. 7, 2019

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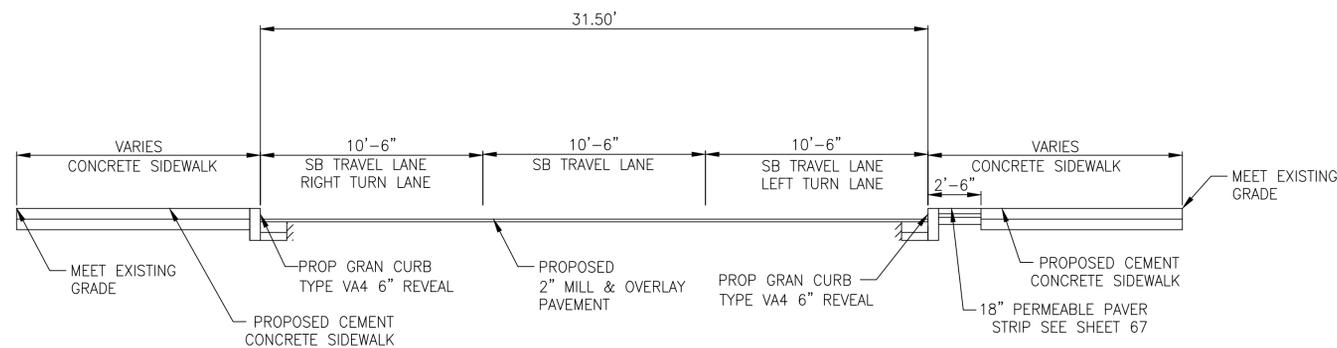




WASHINGTON STREET
 PROPOSED MILL AND OVERLAY
 STA: 34+68 TO 37+58
 SCALE: 1"=4'-0"



ROXBURY STREET
 PROPOSED MILL AND OVERLAY
 STA: 81+65 TO 82+80
 SCALE: 1"=4'-0"



SHAWMUT AVENUE
 PROPOSED MILL AND OVERLAY
 STA: 90+40 TO 91+14
 SCALE: 1"=4'-0"

PROPOSED CEMENT CONCRETE SIDEWALK

SIDEWALK: 6" CEMENT CONCRETE
 BASE: 6" GRAVEL

MILL AND OVERLAY

ROADWAY: 2" SUPERPAVE SURFACE COURSE 12.5

ROADWAY FULL DEPTH PAVEMENT NOTES:

- 2" SUPERPAVE SURFACE COURSE 12.5
- 5.5" SUPERPAVE INTERMEDIATE COURSE 19.0*
- 3" DENSE GRADED CRUSHED STONE
- 9" GRAVEL

*DEPTH OF INTERMEDIATE COURSE MAY VARY TO MATCH ADJACENT PAVEMENT THICKNESS, AS DIRECTED BY THE ENGINEER.

POROUS ASPHALT NOTES:

- 2" POROUS ASPHALT SURFACE COURSE
- 2" POROUS ASPHALT BASE COURSE
- 6" CHOKER COURSE, #57 STONE
- 9" RESERVOIR COURSE, #2 STONE

PERMEABLE PAVER NOTES:

- PERMEABLE PAVERS
- 2" BEDDING COURSE, #8 STONE
- 21.5" CRUSED STONE BASE, #57 STONE
- 6" #2 STONE

NOTE:

1. FOR LIMITS OF STRUCTURAL SOIL SEE SHEETS 85 THRU 91

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES
 DRAWN BY N. BELLONE
 CHECKED BY S. BERGMAN
 APPROVED BY A. SANTORO

CIP XX-XX SHEET 5 OF 117

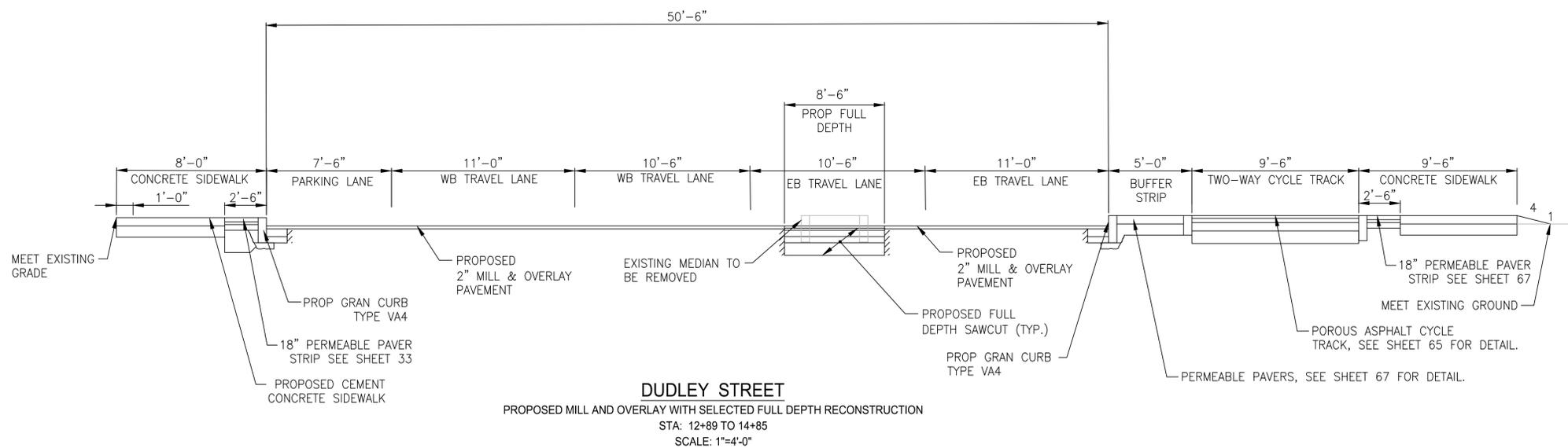
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
TYPICAL SECTIONS
 ROXBURY

SCALE: 1" = 4'
 DISTRICT: 10

AREA: 1
 DATE: FEB. 7, 2019

CITY ENGINEER





PROPOSED CEMENT CONCRETE SIDEWALK

SIDEWALK: 6" CEMENT CONCRETE

BASE: 6" GRAVEL

MILL AND OVERLAY

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BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY N. BELLONE

CHECKED BY S. BERGMAN

APPROVED BY A. SANTORO



CIP XX-XX SHEET 6 OF 117

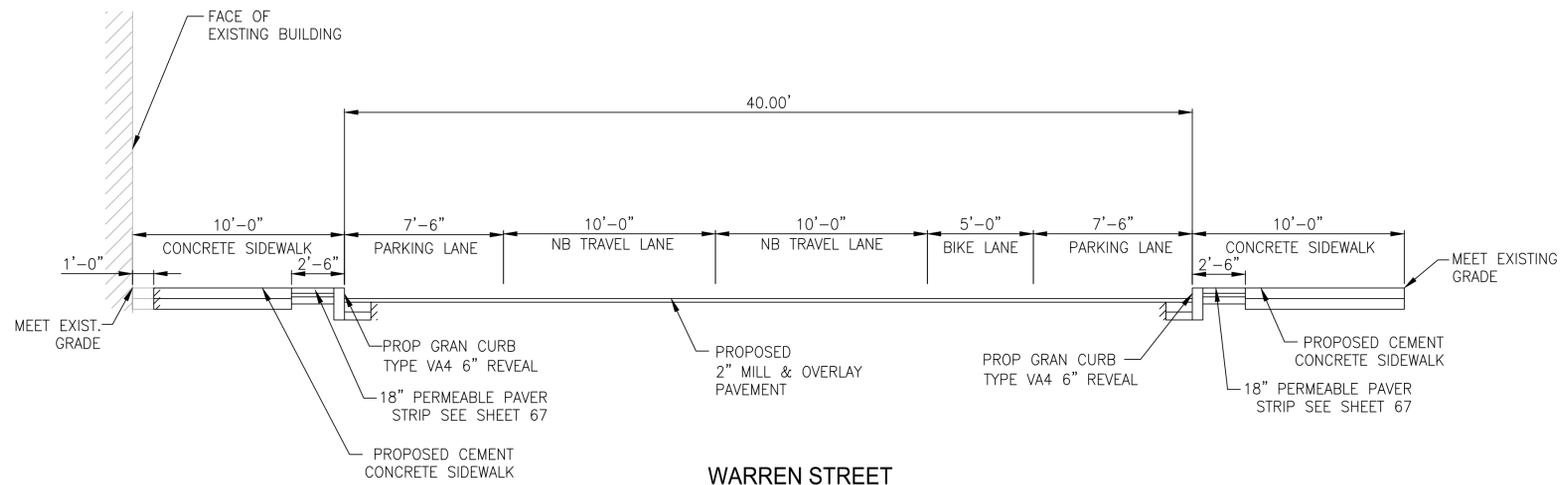
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DUDLEY SQUARE PHASE 2
TYPICAL SECTIONS
ROXBURY

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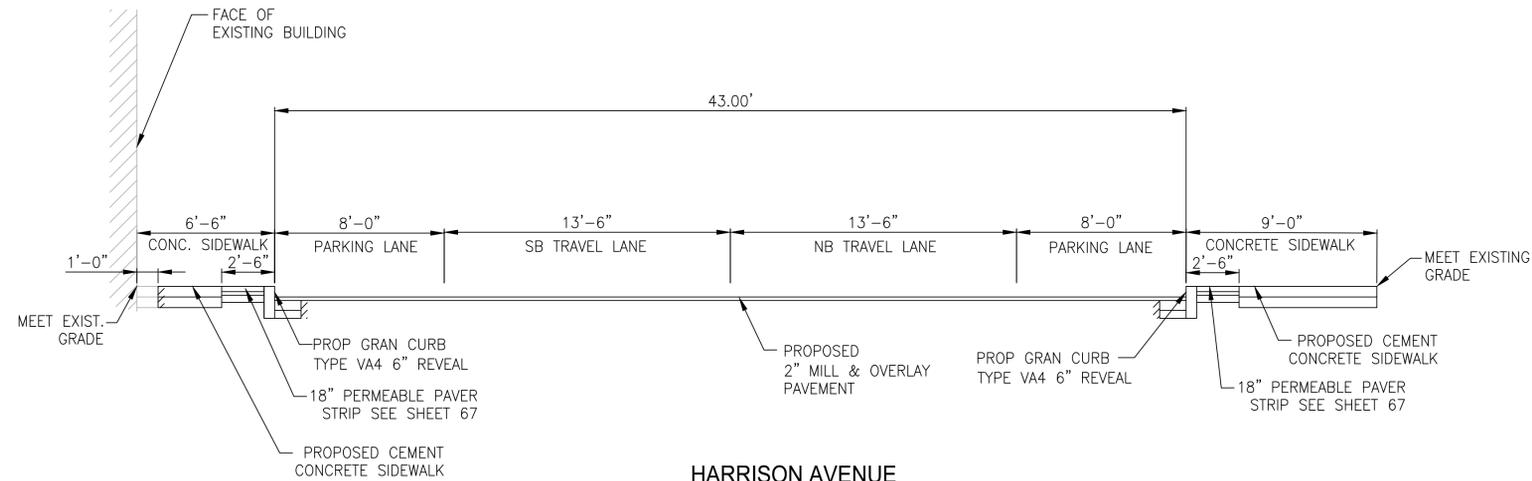
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R-XXXX-6



WARREN STREET
 PROPOSED MILL AND OVERLAY
 STA: 55+83 TO 57+31
 SCALE: 1"=4'-0"



HARRISON AVENUE
 PROPOSED MILL AND OVERLAY
 STA: 73+90 TO 74+81
 SCALE: 1"=4'-0"

PROPOSED CEMENT CONCRETE SIDEWALK

SIDEWALK: 6" CEMENT CONCRETE

BASE: 6" GRAVEL

MILL AND OVERLAY PAVEMENT NOTES:

ROADWAY: 2" SUPERPAVE SURFACE COURSE 12.5

ROADWAY FULL DEPTH PAVEMENT NOTES:

- 2" SUPERPAVE SURFACE COURSE 12.5
- 5.5" SUPERPAVE INTERMEDIATE COURSE 19.0*
- 3" DENSE GRADED CRUSHED STONE
- 9" GRAVEL

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POROUS ASPHALT NOTES:

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NOTE:

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BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY N. BELLONE

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CIP XX-XX SHEET 7 OF 117

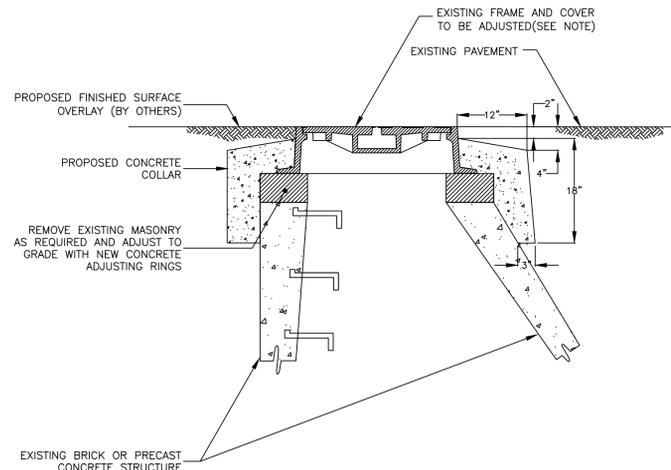
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TYPICAL SECTIONS
 ROXBURY

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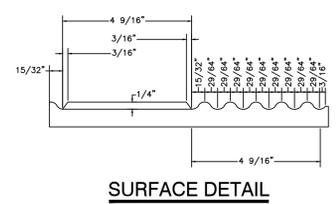
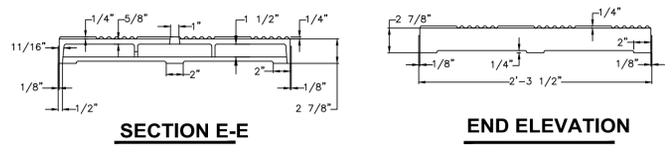
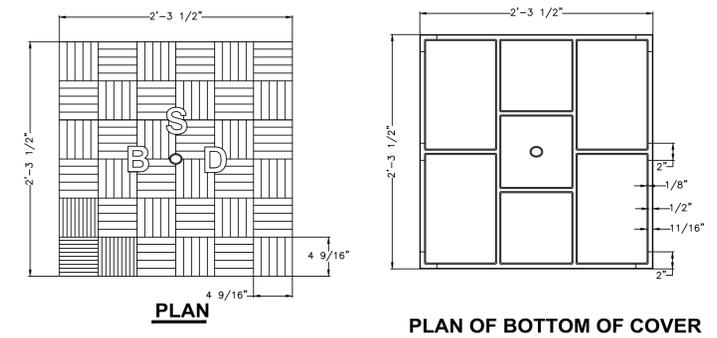
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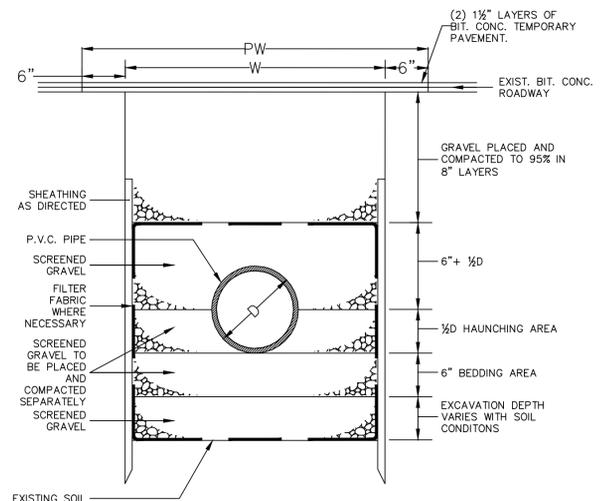
R-XXXX-7



1 CONCRETE MANHOLE ADJUSTMENT TO GRADE (B-03)
SCALE: NTS

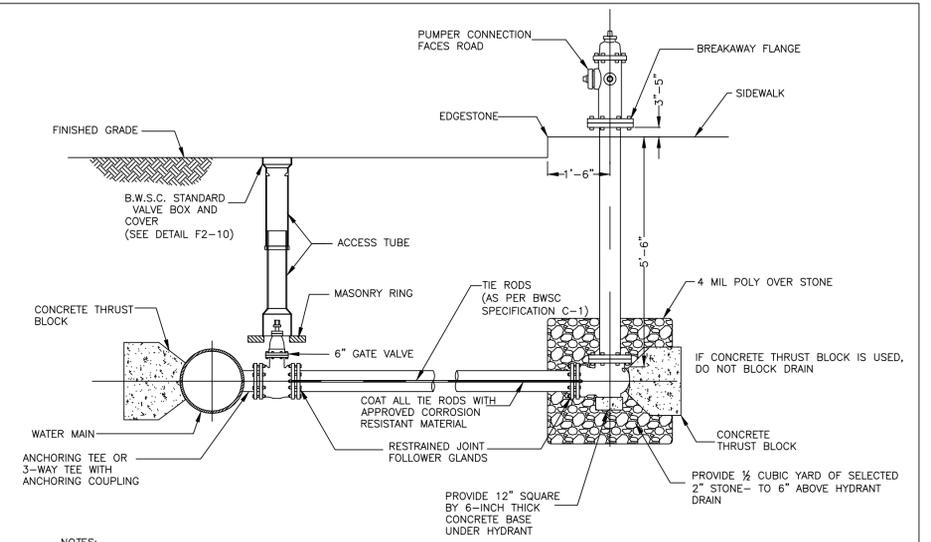


2 TYPE E-6 SIDEWALK MANHOLE COVER (F1-D10)
SCALE: NTS



W = MAXIMUM TRENCH WIDTH
PW = MAXIMUM PAVING WIDTH = W+1'-0"
D = OUTSIDE DIAMETER
UNSHEATHED TRENCH: W = D+2' (3'-0" MIN.)
SHEATHED TRENCH: W = D+2'+ SHEATHING WIDTH:
4'-0" MIN. W/O WALERS
5'-0" MIN. W/WALERS
TRENCH BOX OR HYDRAULIC SHORING:
W = D+2'+ [WALL SHIELD WIDTH ± 8"] + 1' FOR TRENCH BOX

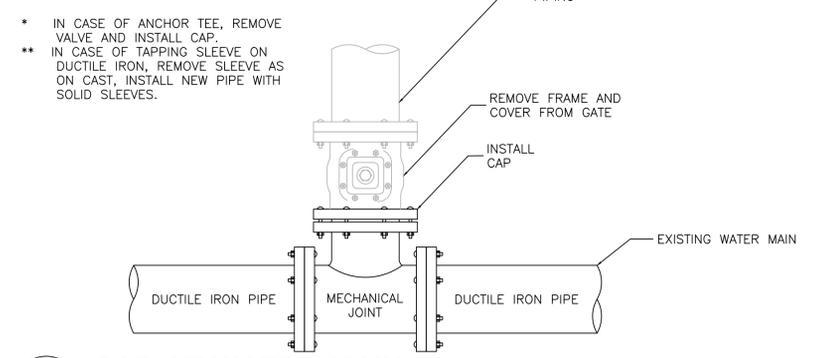
4 TRENCH DETAIL FOR PVC PIPE
SCALE: NTS



- NOTES:
1. ANY DEVIATIONS OF THIS TYPICAL CONNECTION TO MEET FIELD CONDITIONS SHALL BE APPROVED BY THE ENGINEER.
 2. USE RESTRAINED JOINT FOLLOWER GLANDS, OR TIE RODS IN ACCORDANCE WITH SECTION C-1 OF BWS-C SPECIFICATIONS, WHERE CONCRETE THRUST BLOCK IS UNACCEPTABLE TO THE ENGINEER.
 3. CONCRETE THRUST BLOCK TO BE USED ONLY WHERE IT WILL BEAR ON UNDISTURBED EARTH AND WHERE APPROVED BY THE ENGINEER.
 4. SIZE OF BLOCK OR FITTING TO BE DESIGNED FOR SPECIFIC CONDITIONS, OR ANY NECESSARY BENDS.

3 TYPICAL FIRE HYDRANT CONNECTION
SCALE: NTS

- NOTES:
1. ALL WORK MUST BE PERFORMED BY A BWS-C LICENSED AND BONDED CONTRACTOR.
 2. THIS PROCEDURE WILL INVOLVE A MAIN LINE SHUT DOWN THAT THE CONTRACTOR WILL COORDINATE WITH THE BWS-C'S OPERATIONS DIVISION.
 3. WRITTEN NOTIFICATION OF ALL AFFECTED CUSTOMERS MUST BE PERFORMED BY THE CONTRACTOR.
 4. ALL WORK MUST BE PERMITTED BY BWS-C AND ALL OTHER APPROPRIATE AGENCIES.
 5. ALL WORK MUST BE INSPECTED BY BWS-C INSPECTOR OR DESIGNEE.



5 CAP AT WATER MAIN
SCALE: NTS

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO COMMISSION STANDARDS

BOSTON WATER AND SEWER COMMISSION

SURVEY BY BRYANT ASSOCIATES

DRAWN BY S. BERGMAN

CHECKED BY P. FUSCO

APPROVED BY A. SANTORO

CIP XX-XX SHEET 9 OF 117

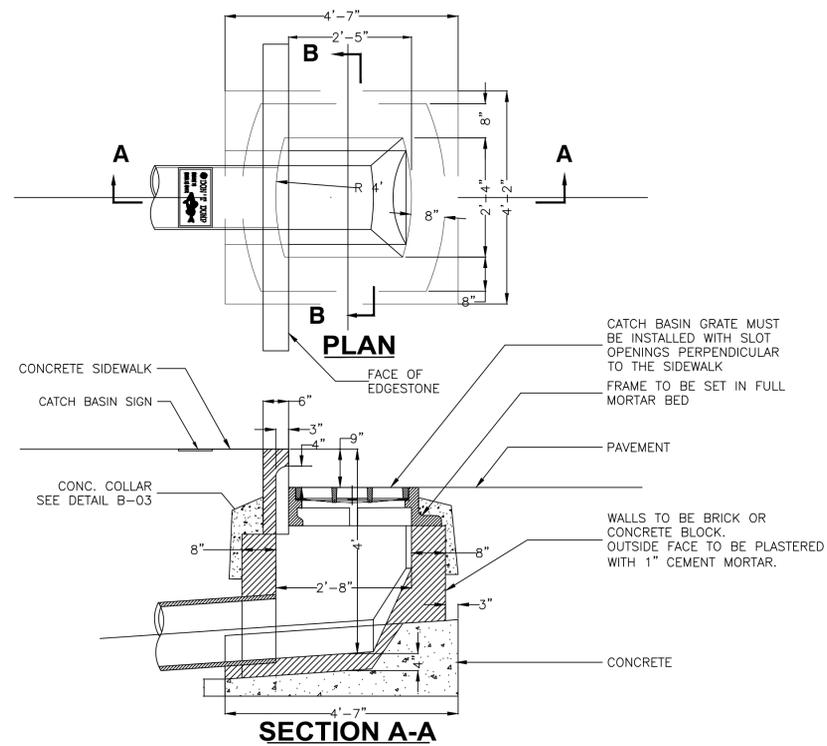
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
CONSTRUCTION DETAILS**
ROXBURY

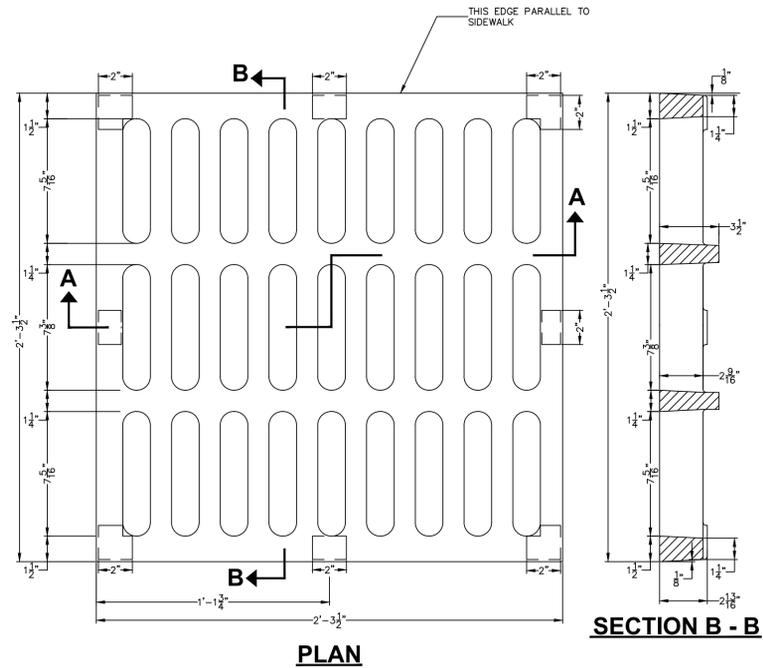
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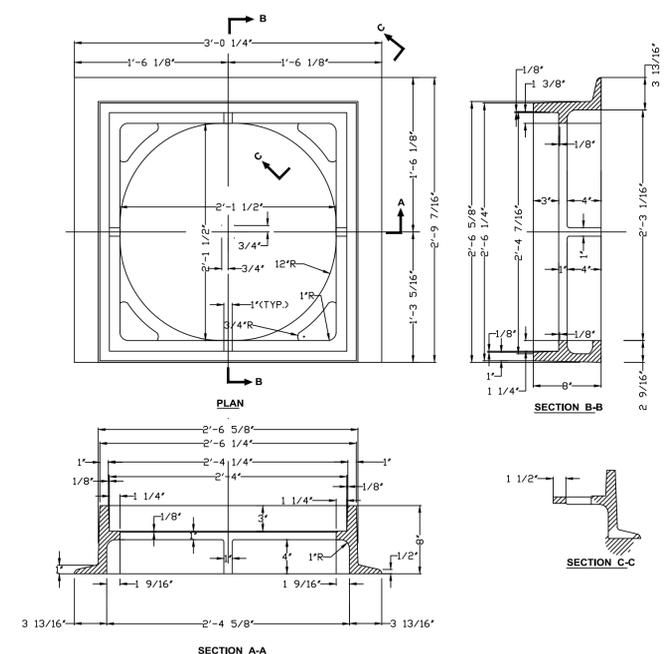


1 DROP INLET WITH GUTTERMOUTH
SCALE: NTS



2 TYPE E-1 CATCH BASIN GRATE (F1-D09)
SCALE: NTS

NOTE: ALL CASTINGS SHALL BE MANUFACTURED FROM GRAY IRON CONFORMING TO ASTM A48 CLASS 35B AND/OR AASHTO M105 CLASS 35B. GRATE OPENINGS ORIENTATION IS TO BE PERPENDICULAR TO FACE OF THE CURB.



3 TYPE E CATCH BASIN FRAME (F1-D08)
SCALE: NTS



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO COMMISSION STANDARDS

BOSTON WATER AND SEWER COMMISSION

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DRAWN BY S. BERGMAN

CHECKED BY P. FUSCO

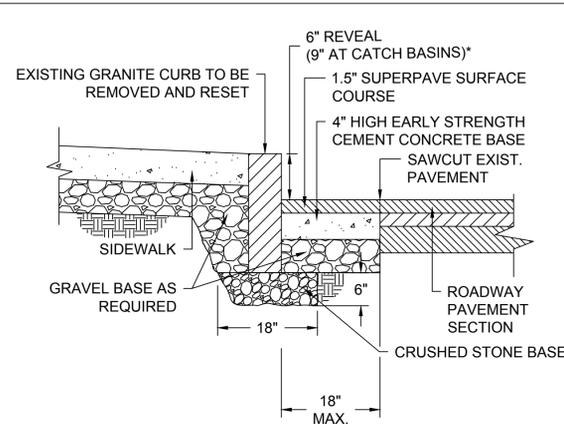
APPROVED BY A. SANTORO

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
CONSTRUCTION DETAILS**
ROXBURY

SCALE: N.T.S. AREA: 1
DISTRICT: 10 DATE: FEB. 7, 2019

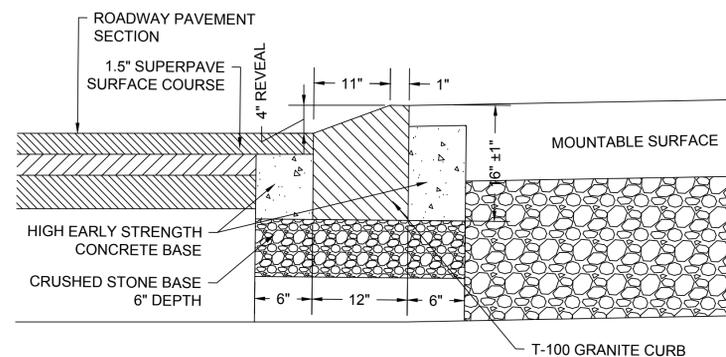
CITY ENGINEER



*6" REVEAL TYPICAL. REVEAL MAY VARY FROM 3" TO 9" WITH PWD APPROVAL.

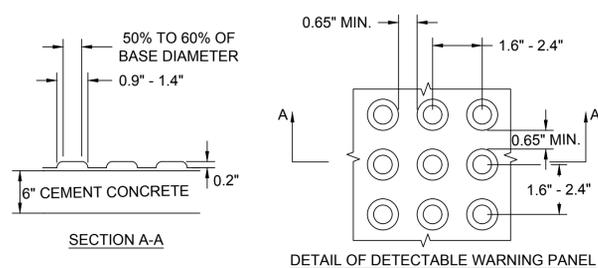
1 CURB - GRANITE RESET

SCALE: NTS



4 CURB - MOUNTABLE

SCALE: NTS

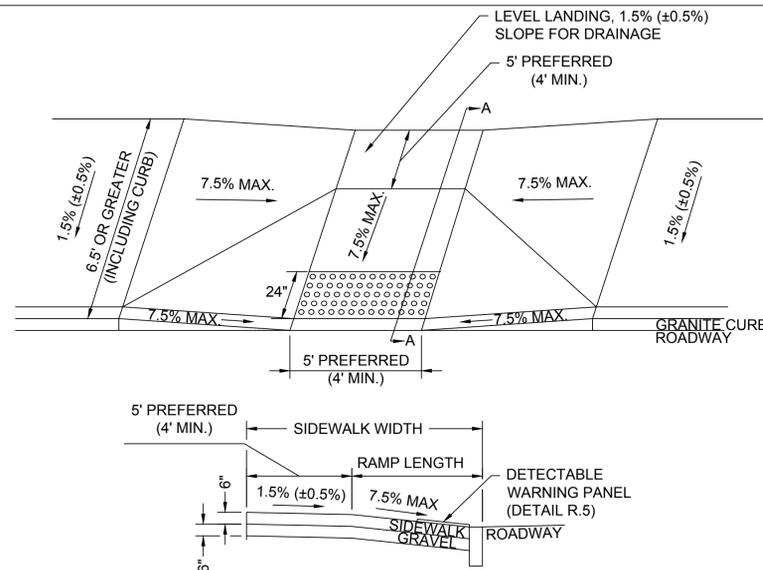


7 DETECTABLE WARNING PANEL

7 DETECTABLE WARNING PANEL

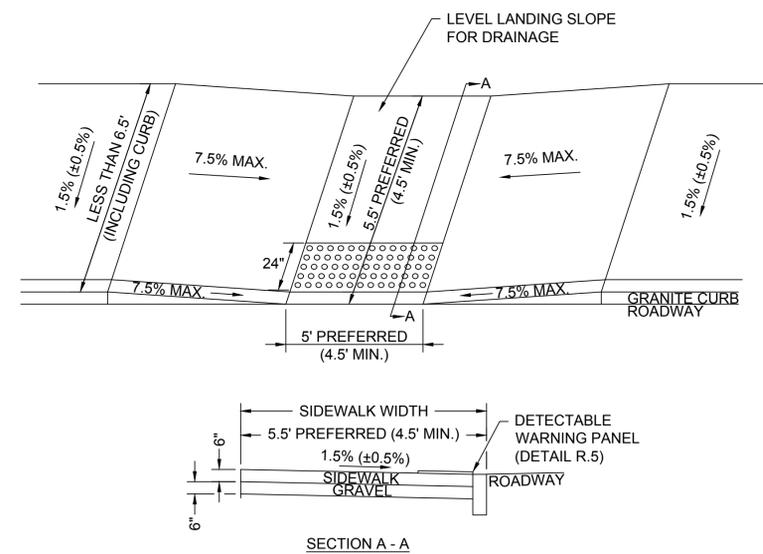
SCALE: NTS

- NOTES:
1. DETECTABLE WARNING PANELS SHALL BE PERMANENTLY APPLIED TO THE CURB RAMP.
 2. DETECTABLE WARNING PANELS SHALL BE PALE YELLOW IN COLOR, CONFORMING TO FEDERAL NO. 23594, UNLESS OTHERWISE SPECIFIED BY PWD.
 3. DETECTABLE WARNING PANELS SHALL BE COMPOSITE.
 4. DETECTABLE WARNING PANELS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.



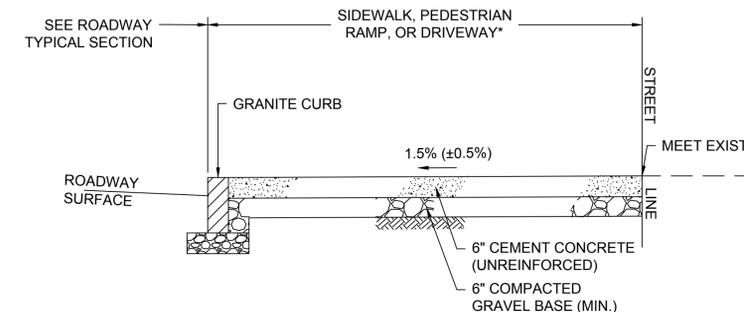
2 PEDESTRIAN RAMP - SIDEWALK WIDTH 6.5' & GREATER

SCALE: NTS



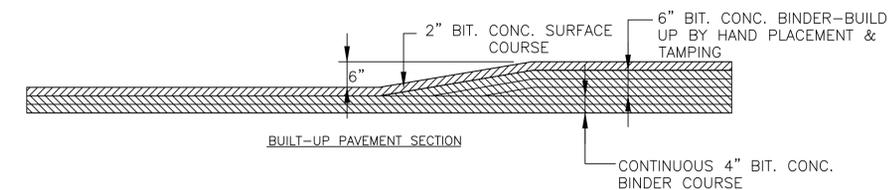
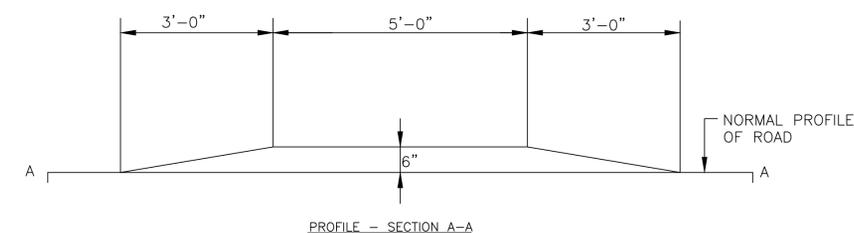
5 PEDESTRIAN RAMP - SIDEWALK WIDTH LESS THAN 6.5'

SCALE: NTS



3 6" CONCRETE SIDEWALK

SCALE: NTS



6 RAISED CROSSING DETAIL

SCALE: NTS

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY S. BERGMAN

CHECKED BY P. FUSCO

APPROVED BY A. SANTORO

CIP XX-XX SHEET 11 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
CONSTRUCTION DETAILS**
ROXBURY

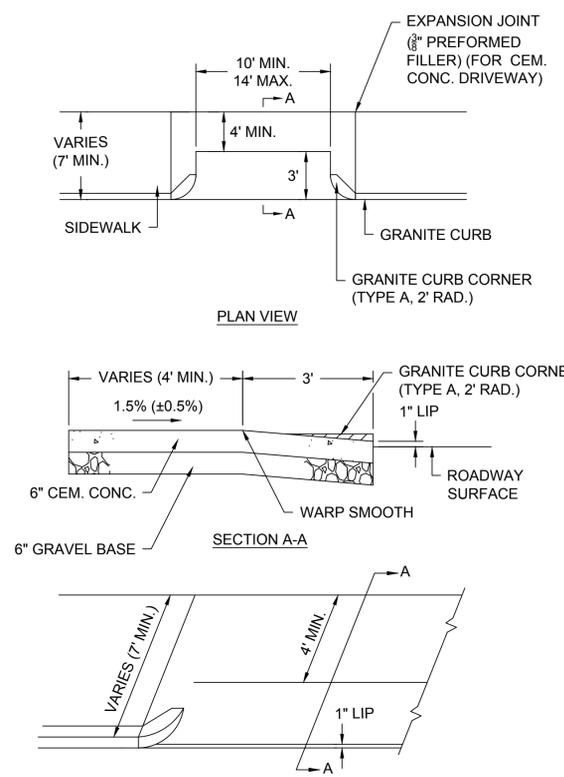
SCALE: N.T.S.
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

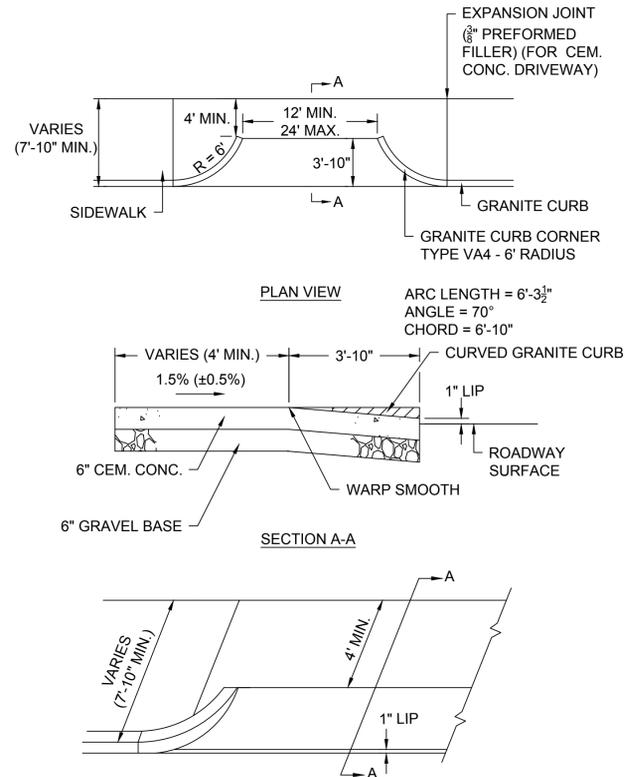
CITY ENGINEER



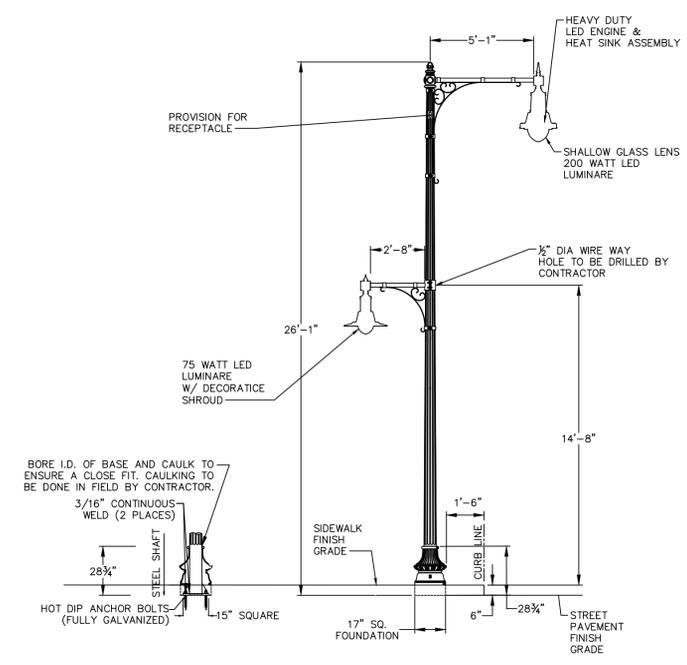
R-XXXX-11



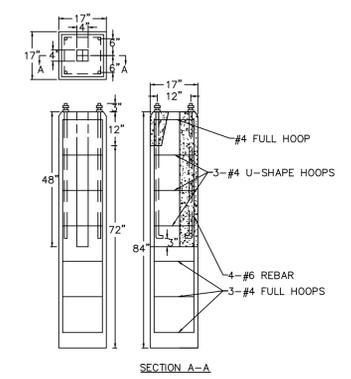
1 DRIVEWAY DETAIL - RESIDENTIAL
SCALE: NTS



2 DRIVEWAY DETAIL - COMMERCIAL
SCALE: NTS



3 HIGH LOW TWIN PENDANT FIXTURE
SCALE: NTS



4 LIGHT MODIFIED BASE - PRECAST
SCALE: NTS

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES
DRAWN BY S. BERGMAN
CHECKED BY P. FUSCO
APPROVED BY A. SANTORO

CIP XX-XX SHEET 12 OF 117

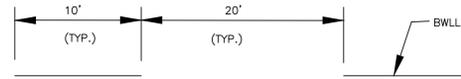
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
CONSTRUCTION DETAILS**
ROXBURY

SCALE: N.T.S. AREA: 1
DISTRICT: 10 DATE: FEB. 7, 2019

CITY ENGINEER

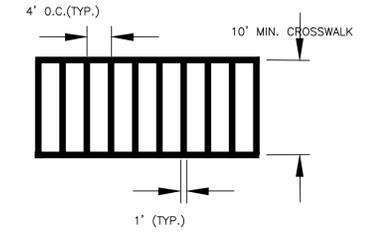




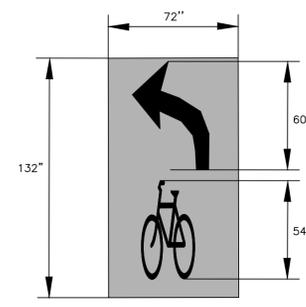
1 LANE STRIPES
SCALE: NTS



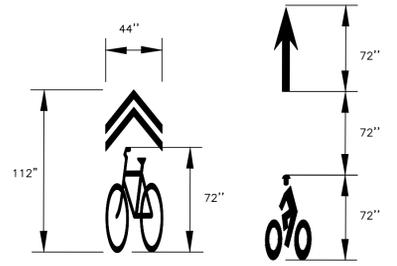
2 GUIDE LINES
SCALE: NTS



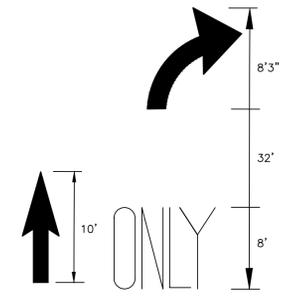
3 CROSSWALK
SCALE: NTS



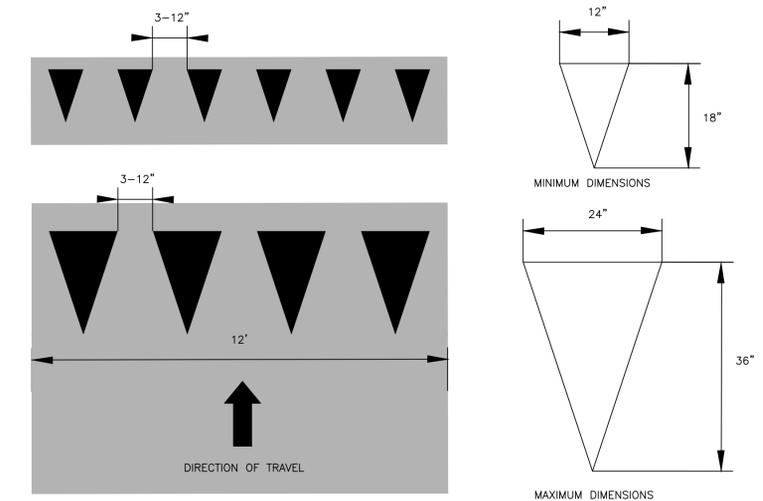
4 LEFT TURN BIKE BOX
SCALE: NTS



5 BICYCLE MARKINGS
SCALE: NTS



6 TURNING MARKINGS
SCALE: NTS



NOTE: TRIANGLE HEIGHT IS EQUAL TO 1.5 TIMES THE BASE DIMENSION.
YIELD LINES MAY BE SMALLER THAN SUGGESTED WHEN INSTALLED ON MUCH NARROWER, SLOW-SPEED FACILITIES SUCH AS SHARED-USE PATHS.

YIELD LINE LAYOUTS
N.T.S.

7 YIELD LINE LAYOUTS
SCALE: NTS

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

CIP XX-XX SHEET 13 OF 117

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	S. BERGMAN
CHECKED BY	P. FUSCO
APPROVED BY	A. SANTORO

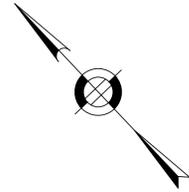
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
CONSTRUCTION DETAILS**
ROXBURY

SCALE: N.T.S. AREA: 1
DISTRICT: 10 DATE: FEB. 7, 2019

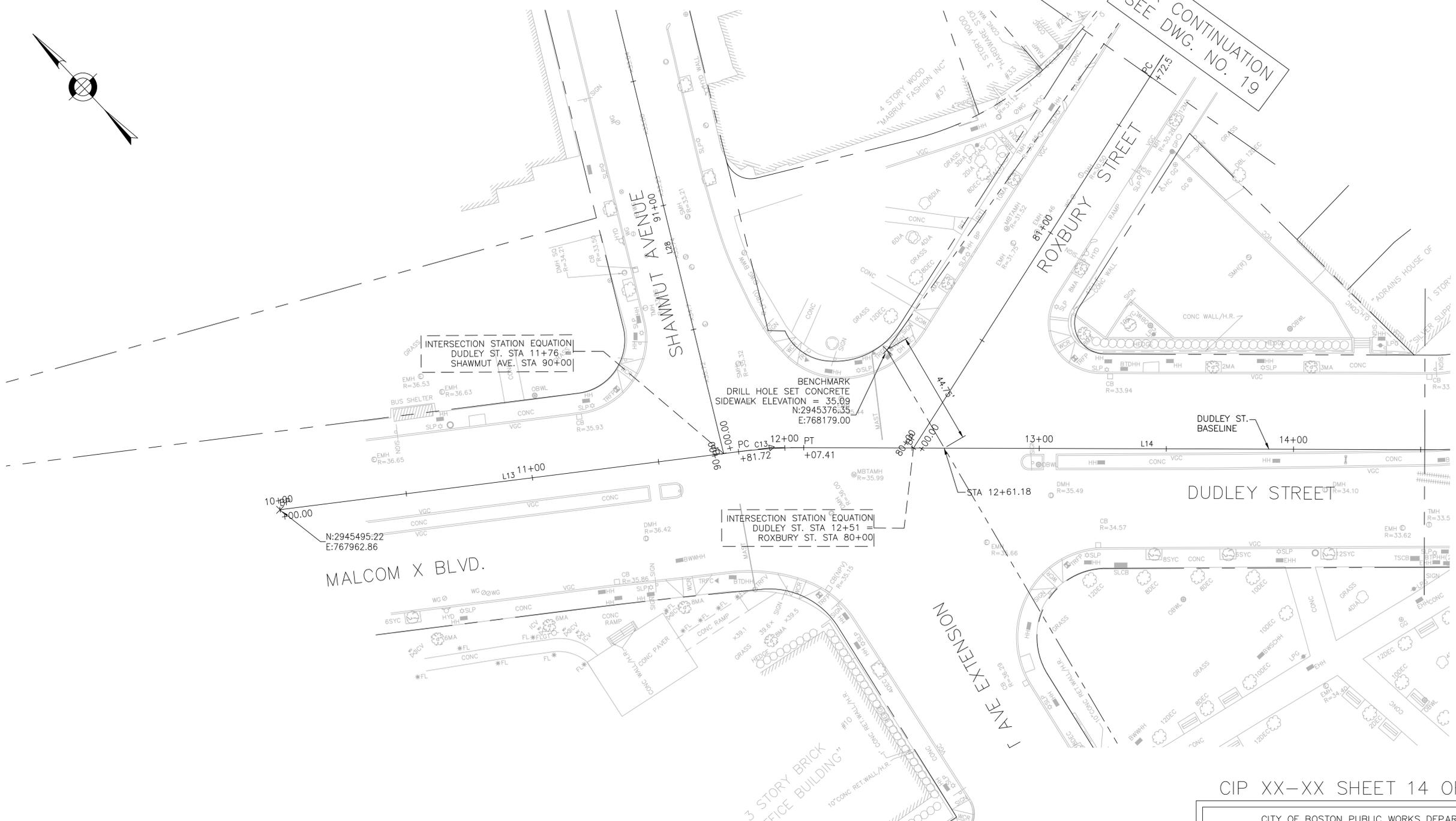
CITY ENGINEER





FOR CONTINUATION
SEE DWG. NO. 19

FOR CONTINUATION SEE DWG. NO. 15



INTERSECTION STATION EQUATION
DUDLEY ST. STA 11+76.4
SHAWMUT AVE. STA 90+00

BENCHMARK
DRILL HOLE SET CONCRETE
SIDEWALK ELEVATION = 35.09
N:2945376.35
E:768179.00

INTERSECTION STATION EQUATION
DUDLEY ST. STA 12+51
ROXBURY ST. STA 80+00

MALCOM X BLVD.

DUDLEY ST. BASELINE

DUDLEY STREET

I AVE EXTENSION

CIP XX-XX SHEET 14 OF 117

NOTES:

1. FOR KEYPLAN, LEGEND AND ABBREVIATIONS, SEE SHEET 2 & 4.
2. FOR GENERAL NOTES, SEE SHEET 3.



SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	S. BERGMAN
CHECKED BY	J. WEISS
APPROVED BY	A. SANTORO

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
CONSTRUCTION BASELINE TIES**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-14



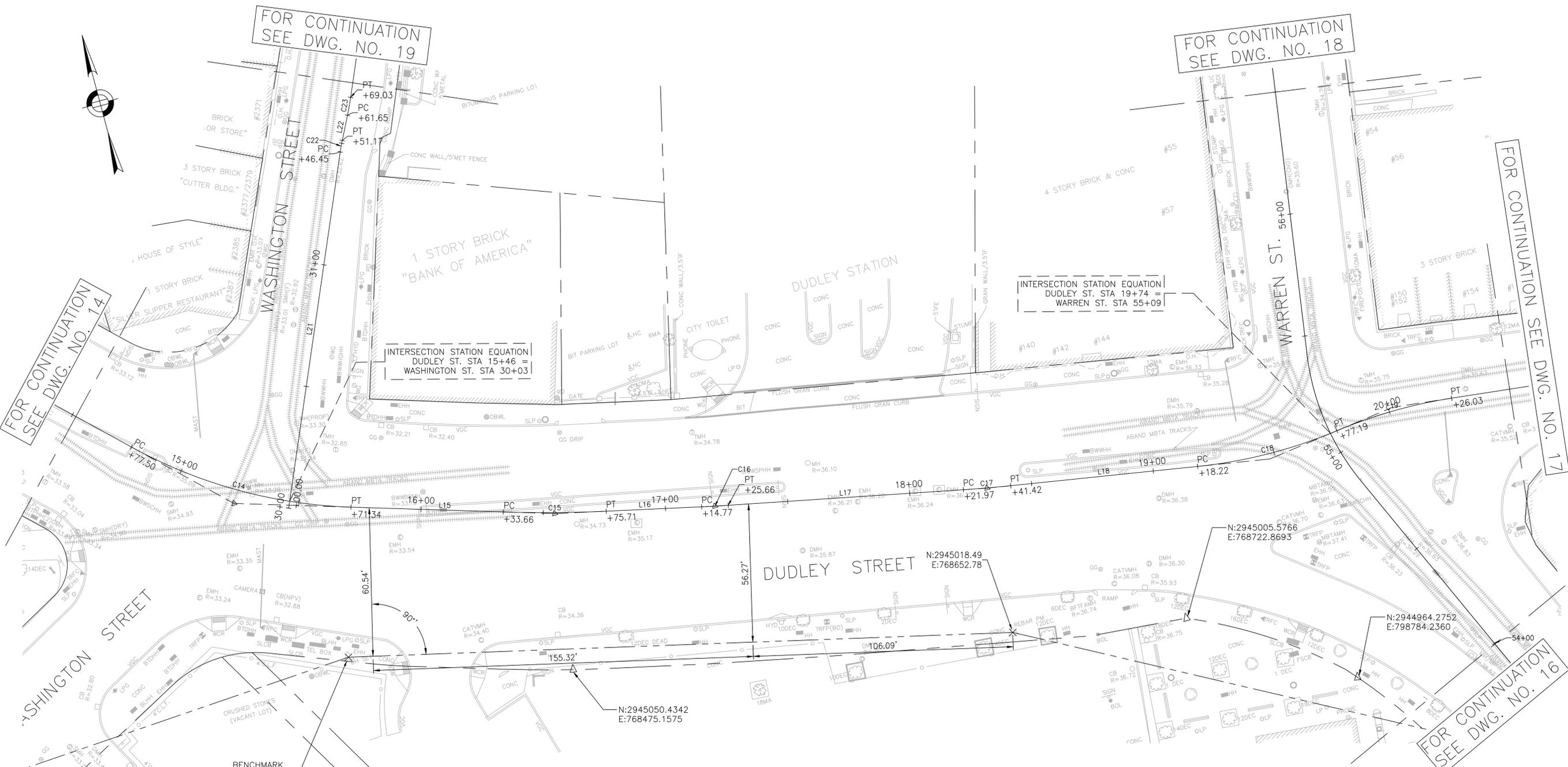
FOR CONTINUATION
SEE DWG. NO. 19

FOR CONTINUATION
SEE DWG. NO. 18

FOR CONTINUATION
SEE DWG. NO. 14

FOR CONTINUATION
SEE DWG. NO. 17

FOR CONTINUATION
SEE DWG. NO. 16



- NOTES:
1. FOR KEYPLAN, LEGEND AND ABBREVIATIONS, SEE SHEET 2 & 4.
 2. FOR GENERAL NOTES, SEE SHEET 3.

BENCHMARK
DRILL HOLE SET IN CONCRETE
SIDEWALK. ELEVATION = 34.30
N:2945079.05
E:768387.82



SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	S. BERGMAN
CHECKED BY	J. WEISS
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 15 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
CONSTRUCTION BASELINE TIES**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-15

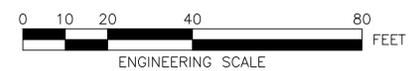


FOR CONTINUATION
SEE DWG. NO. 17

FOR CONTINUATION
SEE DWG. NO. 15

NOTES:

1. FOR KEYPLAN, LEGEND AND ABBREVIATIONS, SEE SHEET 2 & 4.
2. FOR GENERAL NOTES, SEE SHEET 3.



SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	S. BERGMAN
CHECKED BY	J. WEISS
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 16 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

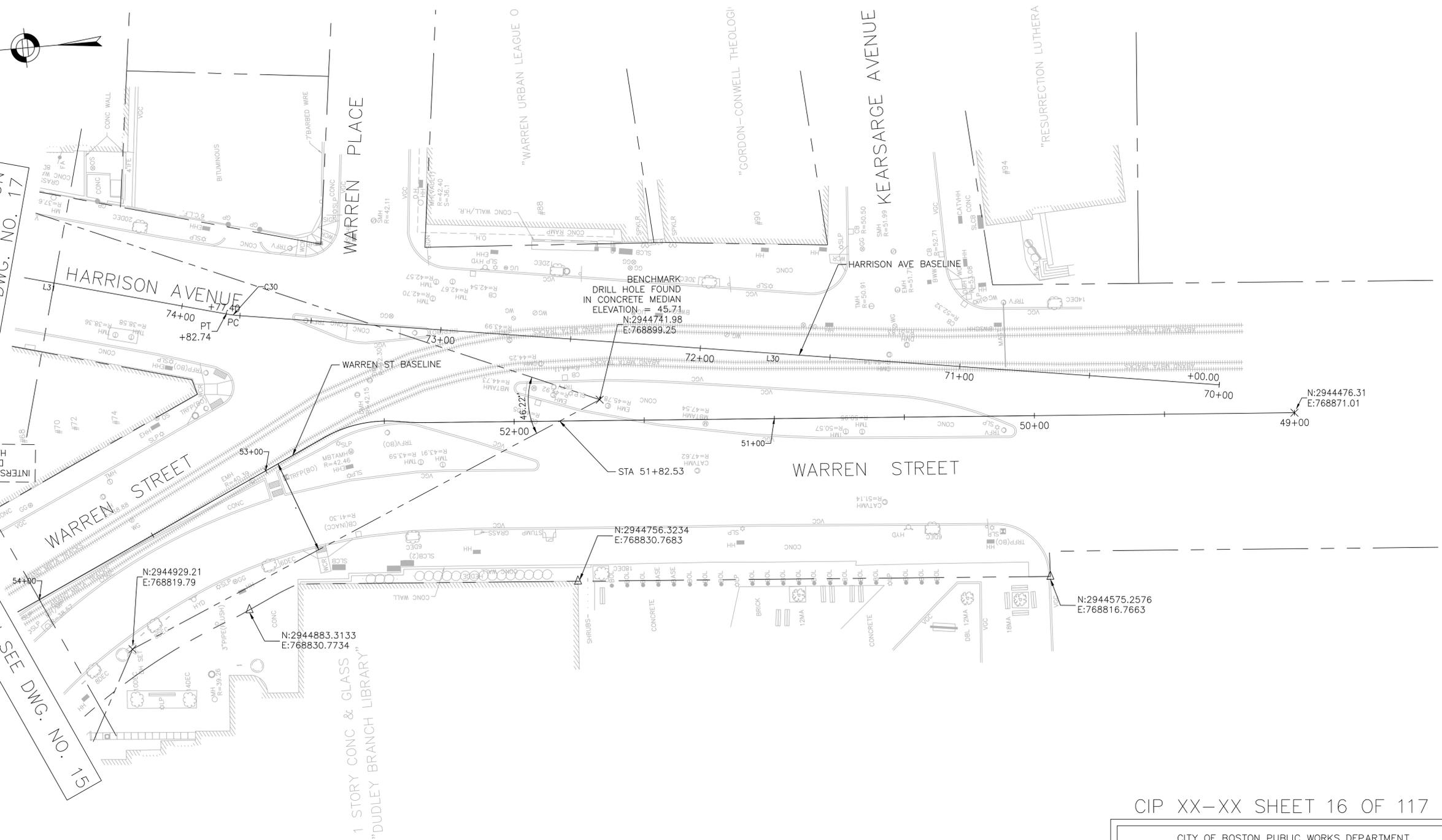
**DUDLEY SQUARE PHASE 2
CONSTRUCTION BASELINE TIES**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

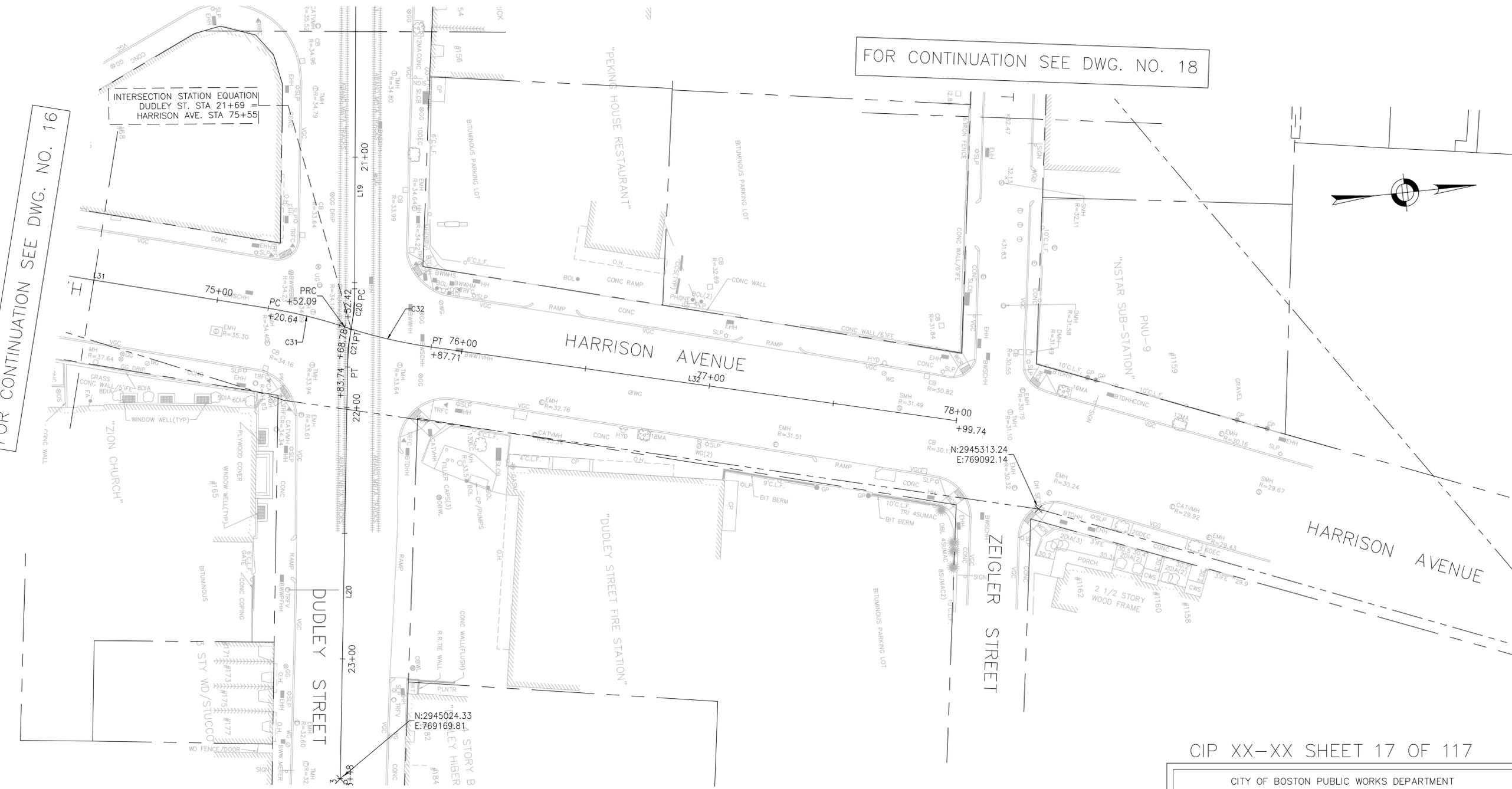
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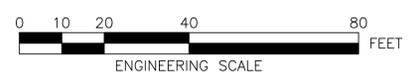
FOR CONTINUATION SEE DWG. NO. 15

FOR CONTINUATION SEE DWG. NO. 18

FOR CONTINUATION SEE DWG. NO. 16



- NOTES:
1. FOR KEYPLAN, LEGEND AND ABBREVIATIONS, SEE SHEET 2 & 4.
 2. FOR GENERAL NOTES, SEE SHEET 3.



SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	S. BERGMAN
CHECKED BY	J. WEISS
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 17 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

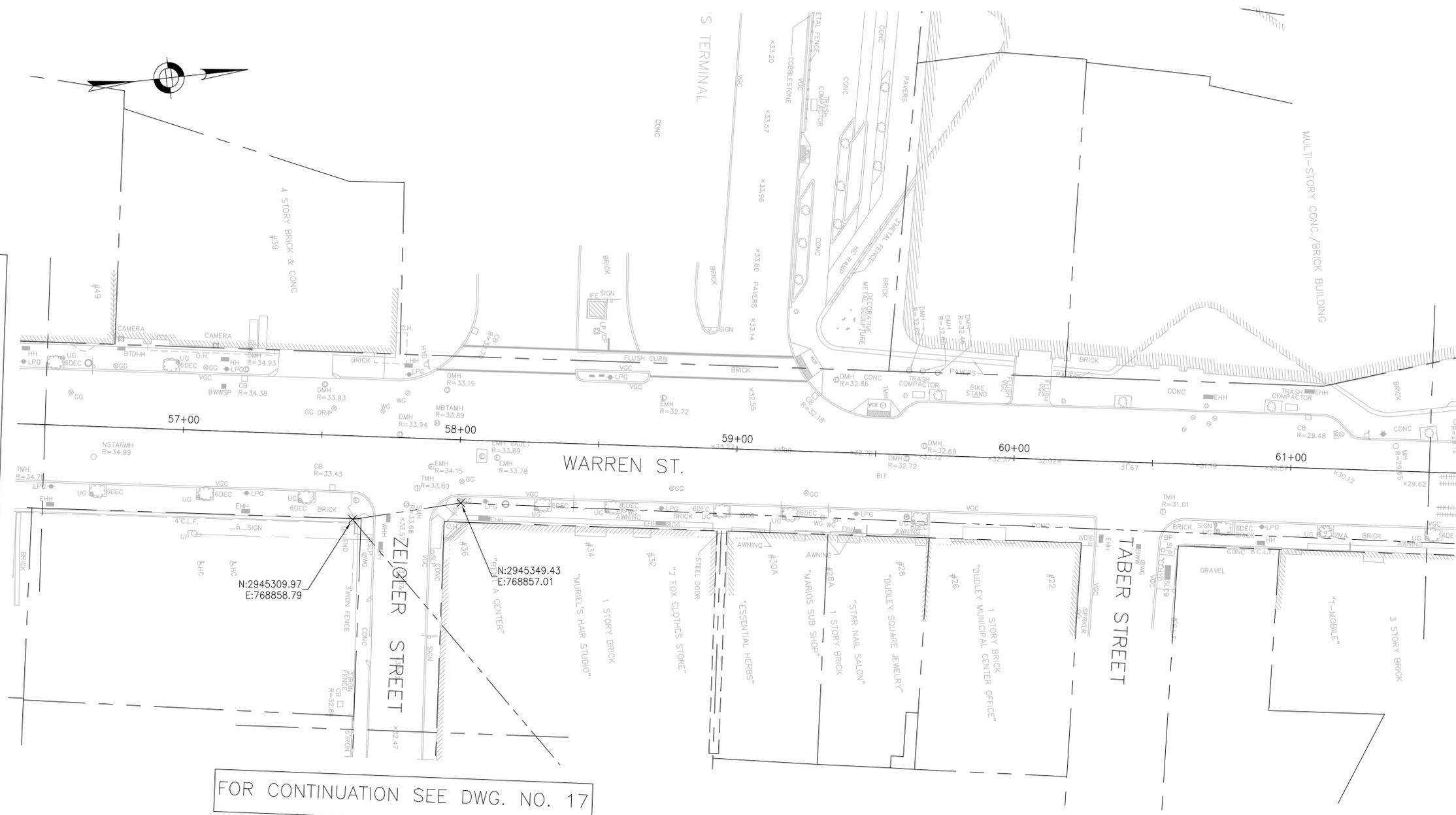
**DUDLEY SQUARE PHASE 2
CONSTRUCTION BASELINE TIES**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-17



FOR CONTINUATION SEE DWG. NO. 15

FOR CONTINUATION SEE DWG. NO. 20

FOR CONTINUATION SEE DWG. NO. 17

- NOTES:
- FOR KEYPLAN, LEGEND AND ABBREVIATIONS, SEE SHEET 2 & 4.
 - FOR GENERAL NOTES, SEE SHEET 3.



SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	S. BERGMAN
CHECKED BY	J. WEISS
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 18 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
CONSTRUCTION BASELINE TIES**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

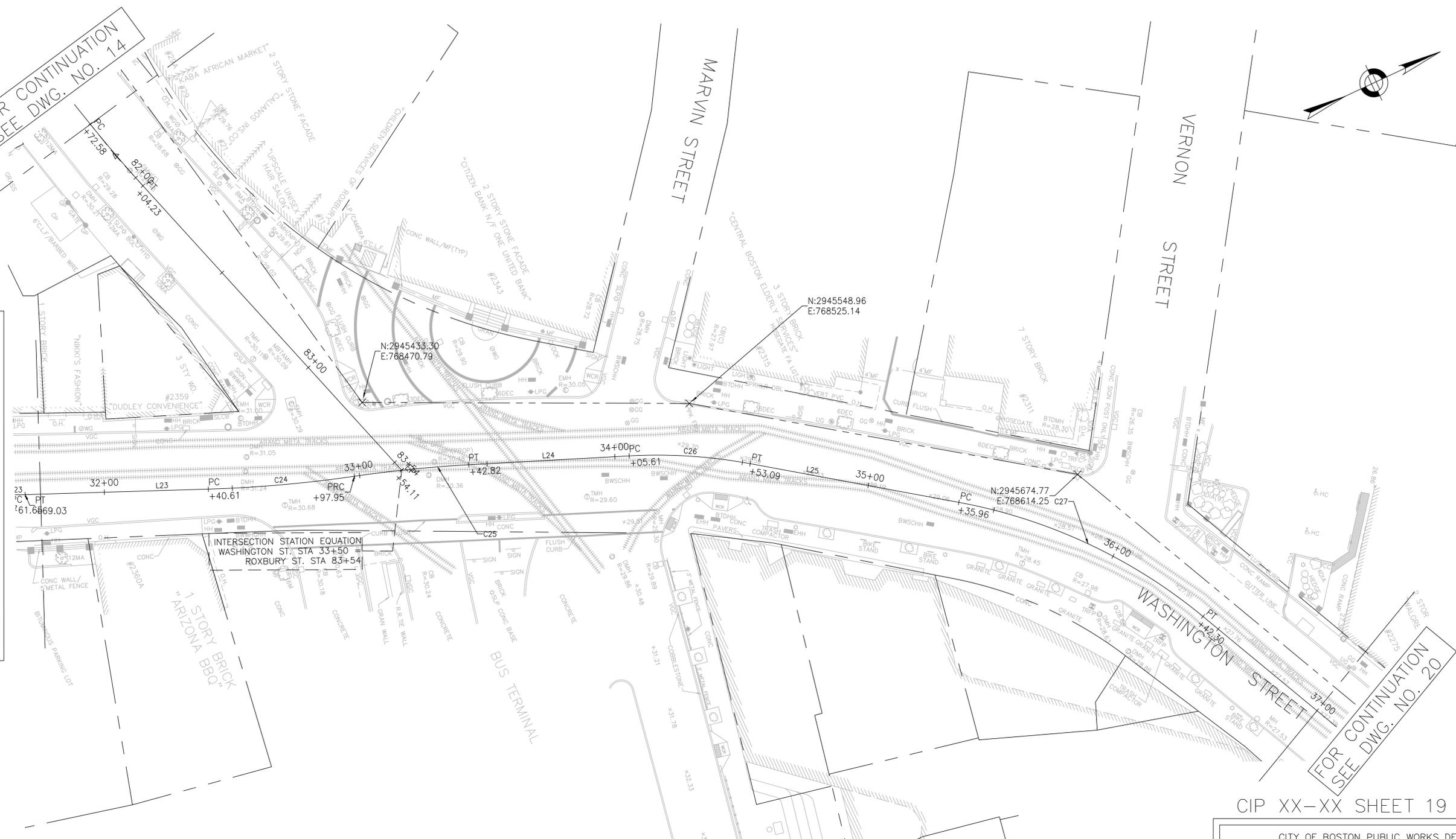
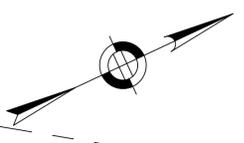
AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

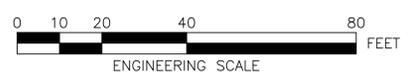
R-XXXX-18

FOR CONTINUATION
SEE DWG. NO. 14

FOR CONTINUATION SEE DWG. NO. 15



- NOTES:
1. FOR KEYPLAN, LEGEND AND ABBREVIATIONS, SEE SHEET 2 & 4.
 2. FOR GENERAL NOTES, SEE SHEET 3.



SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	S. BERGMAN
CHECKED BY	J. WEISS
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 19 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

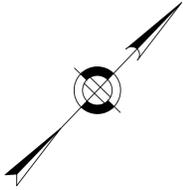
**DUDLEY SQUARE PHASE 2
CONSTRUCTION BASELINE TIES**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-19



FOR CONTINUATION
SEE DWG. NO. 19

FOR CONTINUATION
SEE DWG. NO. 18

INTERSECTION STATION EQUATION
WASHINGTON ST. STA 38+81
WARREN ST. STA 62+54

N:2945791.31
E:768860.74

N:2945823.65
E:768926.44

NOTES:

1. FOR KEYPLAN, LEGEND AND ABBREVIATIONS, SEE SHEET 2 & 4.
2. FOR GENERAL NOTES, SEE SHEET 3.

R-XXXX-20



SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	S. BERGMAN
CHECKED BY	J. WEISS
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 20 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
CONSTRUCTION BASELINE TIES**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

DUDLEY STREET BASELINE TANGENT TABLE						
Line #	Begin Point (N,E)	End Point (N,E)	Begin Station	End Station	Length	Direction
L13	N 2945494.327, E 767964.161	N 2945387.631, E 768109.302	10+00.000	11+81.720	181.719	S53° 40' 46.67"E
L14	N 2945371.130, E 768128.967	N 2945178.513, E 768330.673	12+07.410	14+77.500	270.096	S46° 19' 13.37"E
L15	N 2945131.691, E 768410.996	N 2945110.876, E 768479.944	15+71.340	16+33.660	62.322	S73° 12' 05.27"E
L16	N 2945108.971, E 768487.267	N 2945098.189, E 768536.412	16+75.710	17+14.770	39.064	S77° 37' 34.14"E
L17	N 2945093.253, E 768561.747	N 2945078.042, E 768650.972	17+25.660	18+21.970	96.319	S78° 46' 24.72"E
L18	N 2945077.200, E 768656.055	N 2945063.734, E 768739.784	18+41.420	19+18.220	76.796	S80° 51' 49.58"E
L19	N 2945064.138, E 768850.690	N 2945050.421, E 768976.330	20+26.031	21+52.418	126.387	S83° 46' 09.31"E
L20	N 2945044.391, E 769007.039	N 2945024.318, E 769169.791	21+83.746	23+47.731	163.985	S82° 58' 07.60"E

DUDLEY STREET BASELINE CURVE TABLE								
Curve #	PC Station	PC (N,E)	PT Station	PT (N,E)	Radius	Curve Length	Delta	Tangent
C13	11+81.720	N 2945387.631, E 768109.302	12+07.410	N 2945371.130, E 768128.967	200.000	25.689	7.359	12.862
C14	14+77.500	N 2945178.513, E 768330.673	15+71.340	N 2945131.691, E 768410.996	200.000	93.833	26.881	47.796
C15	16+33.660	N 2945110.876, E 768479.944	16+75.710	N 2945108.971, E 768487.267	544.500	42.049	4.425	21.035
C16	17+14.770	N 2945098.189, E 768536.412	17+25.660	N 2945093.253, E 768561.747	543.500	10.884	1.148	5.442
C17	18+21.970	N 2945078.042, E 768650.972	18+41.420	N 2945077.200, E 768656.055	533.000	76.796	0.539	9.723
C18	19+18.220	N 2945063.734, E 768739.784	19+77.190	N 2945063.258, E 768800.337	200.500	58.978	16.896	29.704
C19	19+77.190	N 2945063.258, E 768800.337	20+26.031	N 2945064.138, E 768850.690	200.000	48.836	13.990	24.400
C20	21+52.418	N 2945050.421, E 768976.330	21+68.780	N 2945047.326, E 768992.378	100.000	16.362	9.375	8.200
C21	21+68.780	N 2945047.326, E 768992.378	21+83.746	N 2945044.391, E 769007.039	100.000	14.965	8.574	7.497

WARREN STREET BASELINE TANGENT TABLE						
Line #	Begin Point (N,E)	End Point (N,E)	Begin Station	End Station	Length	Direction
L7	N 2944577.450, E 768861.460	N 2944663.450, E 768868.586	50+00.000	50+86.294	86.294	N4° 44' 13.66"E
L8	N 2944706.308, E 768873.970	N 2944744.847, E 768880.476	51+29.502	51+68.587	39.084	N9° 34' 54.59"E
L9	N 2944757.632, E 768883.509	N 2944782.553, E 768891.184	51+81.736	52+07.812	26.076	N17° 06' 56.75"E
L10	N 2944866.755, E 768886.406	N 2945041.990, E 768806.401	52+94.038	54+86.673	192.634	N24° 32' 21.76"W
L11	N 2945097.574, E 768798.361	N 2945356.369, E 768835.092	55+43.601	58+04.990	261.389	N8° 04' 40.95"E
L12	N 2945359.440, E 768835.522	N 2945738.119, E 768888.071	58+08.090	61+90.398	382.308	N7° 54' 01.46"E

WARREN STREET BASELINE CURVE TABLE								
Curve #	PC Station	PC (N,E)	PT Station	PT (N,E)	Radius	Curve Length	Delta	Tangent
C7	50+86.294	N 2944663.450, E 768868.586	51+29.502	N 2944706.308, E 768873.970	511.000	43.208	4.845	21.617
C8	51+68.587	N 2944744.847, E 768880.476	51+81.736	N 2944757.632, E 768883.509	100.000	13.149	7.534	6.584
C9	52+07.812	N 2944782.553, E 768891.184	52+94.038	N 2944866.755, E 768886.406	118.527	86.226	41.682	45.121
C10	54+86.673	N 2945041.990, E 768806.401	55+43.601	N 2945097.574, E 768798.361	100.000	56.928	32.617	29.259
C11	58+04.990	N 2945356.369, E 768835.092	58+08.090	N 2945359.440, E 768835.522	1000.000	3.100	0.178	1.550
C12	61+90.398	N 2945738.119, E 768888.071	62+54.107	N 2945791.305, E 768860.739	52.000	63.709	70.197	36.544

SHAWMUT AVENUE BASELINE TANGENT TABLE						
Line #	Begin Point (N,E)	End Point (N,E)	Begin Station	End Station	Length	Direction
L28	N 2946897.459, E 768724.399	N 2947128.252, E 768856.509	90+00.000	92+65.929	265.929	N29° 47' 15.52"E

WASHINGTON STREET BASELINE TANGENT TABLE						
Line #	Begin Point (N,E)	End Point (N,E)	Begin Station	End Station	Length	Direction
L21	N 2945143.987, E 768379.924	N 2945278.512, E 768437.806	30+00.000	31+46.448	146.448	N23° 16' 50.48"E
L22	N 2945282.789, E 768439.802	N 2945292.147, E 768444.518	31+51.169	31+61.649	10.480	N26° 44' 53.57"E
L23	N 2945298.837, E 768447.640	N 2945364.589, E 768475.931	31+69.032	32+40.612	71.580	N23° 16' 50.48"E
L24	N 2945460.782, E 768510.339	N 2945519.057, E 768533.710	33+42.822	34+05.609	62.787	N21° 51' 10.85"E
L25	N 2945560.625, E 768556.424	N 2945628.125, E 768604.492	34+53.089	35+35.955	82.866	N35° 27' 18.10"E
L26	N 2945695.806, E 768685.042	N 2945742.727, E 768783.279	36+42.298	37+51.165	108.867	N64° 28' 09.15"E
L27	N 2945847.226, E 768917.862	N 2945931.136, E 768987.958	39+22.869	40+32.206	109.336	N39° 52' 27.65"E

WASHINGTON STREET BASELINE CURVE TABLE									
Curve #	PC Station	PC (N,E)	PT Station	PT (N,E)	Radius	Curve Length	Delta	Tangent	
C22	31+46.448	N 2945278.512, E 768437.806	31+51.169	N 2945282.789, E 768439.802	78.000	4.721	3.468	2.361	
C23	31+61.649	N 2945292.147, E 768444.518	31+69.032	N 2945298.837, E 768447.640	122.000	7.383	3.468	3.693	
C24	32+40.612	N 2945364.589, E 768475.931	32+49.946	N 2945418.438, E 768495.525	500.000	57.334	6.570	28.699	
C25	32+49.946	N 2945418.438, E 768495.525	33+42.822	N 2945460.782, E 768510.339	500.000	44.876	5.142	22.453	
C26	34+05.609	N 2945519.057, E 768533.710	34+53.089	N 2945560.625, E 768556.424	200.000	47.480	13.602	23.852	
C27	35+35.955	N 2945628.125, E 768604.492	36+42.298	N 2945695.806, E 768685.042	210.000	106.343	29.014	54.337	
C28	37+51.165	N 2945742.727, E 768783.279	39+22.869	N 2945847.226, E 768917.862	400.000	171.705	24.595	87.195	

ROXBURY STREET BASELINE TANGENT TABLE						
Line #	Begin Point (N,E)	End Point (N,E)	Begin Station	End Station	Length	Direction
L33	N 2945341.314, E 768160.190	N 2945382.788, E 768327.717	80+00.000	81+72.584	172.584	N76° 05' 42.44"E
L29	N 2945391.325, E 768358.184	N 2945436.150, E 768501.204	82+04.230	83+54.110	149.880	N72° 35' 53.30"E

ROXBURY STREET BASELINE CURVE TABLE								
Curve #	PC Station	PC (N,E)	PT Station	PT (N,E)	Radius	Curve Length	Delta	Tangent
C33	81+72.580	N 2945382.788, E 768327.717	82+04.230	N 2945391.325, E 768358.184	518.500	31.646	3.497	15.828

HARRISON AVENUE BASELINE TANGENT TABLE						
Line #	Begin Point (N,E)	End Point (N,E)	Begin Station	End Station	Length	Direction
L30	N 2944504.195, E 768884.170	N 2944876.925, E 768943.330	70+00.000	73+77.395	377.395	N9° 01' 07.34"E
L31	N 2944882.145, E 768944.447	N 2945015.259, E 768980.461	73+82.736	75+20.636	137.899	N15° 08' 20.73"E
L32	N 2945078.472, E 769002.634	N 2945198.046, E 769032.335	75+87.705	77+10.913	123.207	N13° 56' 57.14"E

HARRISON AVENUE BASELINE CURVE TABLE								
Curve #	PC Station	PC (N,E)	PT Station	PT (N,E)	Radius	Curve Length	Delta	Tangent
C30	73+77.395	N 2944876.925, E 768943.330	73+82.736	N 2944882.145, E 768944.447	50.000	5.341	6.120	2.673
C31	75+20.636	N 2945015.259, E 768980.461	75+52.094	N 2945044.855, E 768991.026	200.000	31.458	9.012	15.762
C32	75+52.094	N 2945044.855, E 768991.026	75+87.705	N 2945078.472, E 769002.634	200.000	35.612	10.202	17.853

CIP XX-XX SHEET 21 OF 117



SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	S. BERGMAN
CHECKED BY	J. WEISS
APPROVED BY	A. SANTORO

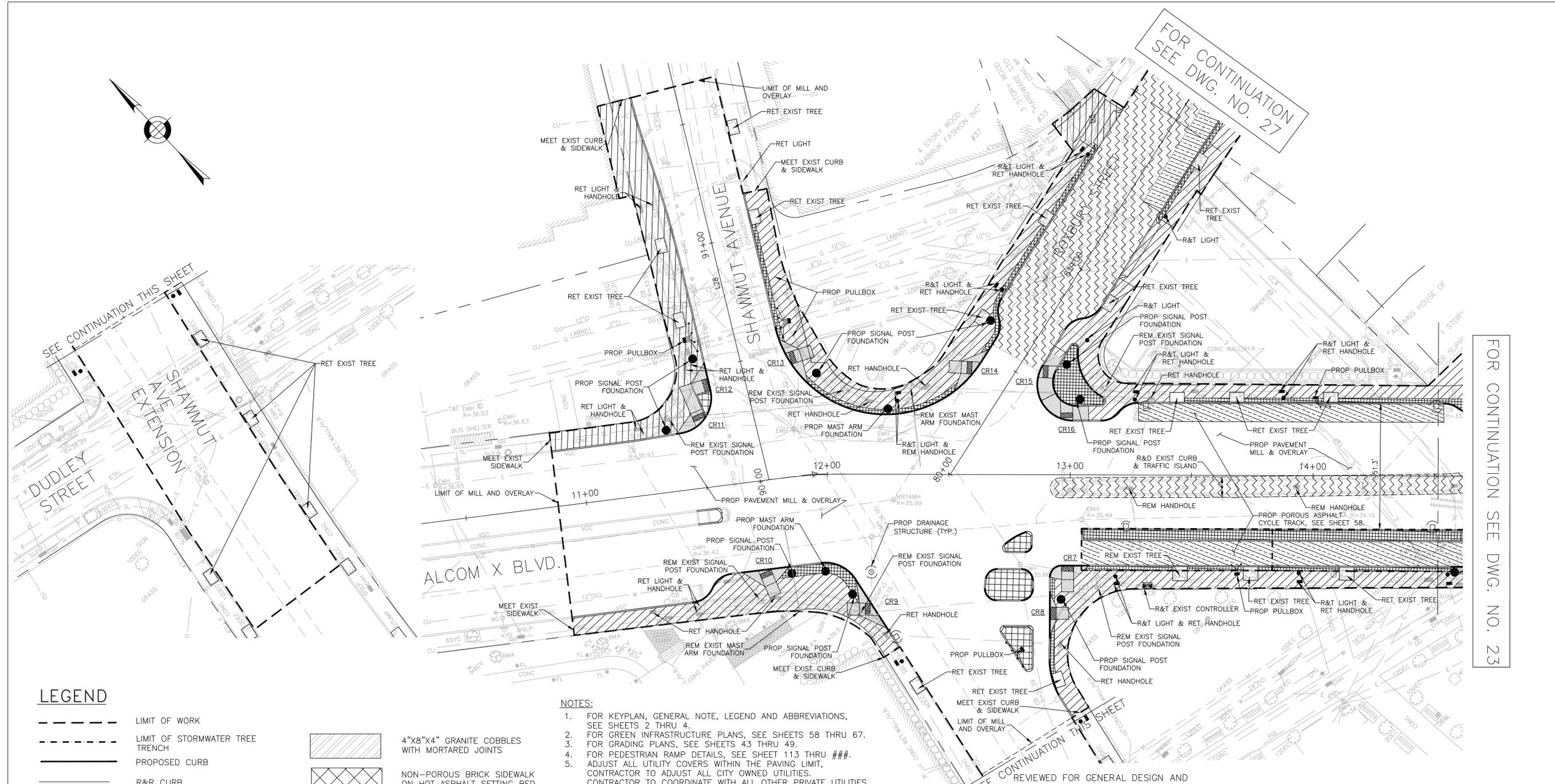
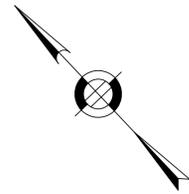
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
CONSTRUCTION BASELINE TIES**
ROXBURY

SCALE: N.T.S. AREA: 1
DISTRICT: 10 DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-21



FOR CONTINUATION
SEE DWG. NO. 27

FOR CONTINUATION SEE DWG. NO. 23

LEGEND

- | | | | |
|--|--|--|--|
| | LIMIT OF WORK | | 4"x8"x4" GRANITE COBBLES WITH MORTARED JOINTS |
| | LIMIT OF STORMWATER TREE TRENCH | | NON-POROUS BRICK SIDEWALK ON HOT ASPHALT SETTING BED |
| | PROPOSED CURB | | FULL DEPTH ROADWAY CONSTRUCTION |
| | R&R CURB | | PERMEABLE CONCRETE PAVERS |
| | LIMIT OF STRUCTURAL SOIL | | POROUS ASPHALT |
| | CEMENT CONCRETE SIDEWALK | | |
| | PROPOSED CEMENT CONCRETE PEDESTRIAN RAMP WITH DETECTABLE WARNING PANEL | | |

NOTES:

- FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
- FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS 58 THRU 67.
- FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
- FOR PEDESTRIAN RAMP DETAILS, SEE SHEET 113 THRU ###. ADJUST ALL UTILITY COVERS WITHIN THE PAVING LIMIT. CONTRACTOR TO ADJUST ALL CITY OWNED UTILITIES. CONTRACTOR TO COORDINATE WITH ALL OTHER PRIVATE UTILITIES FOR COVER ADJUSTMENTS.
- ALL EXISTING GRANITE CURB IN SUITABLE CONDITION SHALL BE RE-USED IN THE PROPOSED WORK, EXCEPT CURVED STONES OF A DIFFERENT RADIUS THAN PROPOSED CURB. SUCH STONES SHALL BE TYPE VA4 VERTICAL GRANITE CUBE. EXISTING CURB NOT SUITABLE FOR RE-USE AS DETERMINED BY THE ENGINEER SHALL BE REMOVED AND DISCARDED AND REPLACED WITH VA4. CONTRACTOR SHALL COORDINATE WITH MASSDOT SIGNAL PROJECT AT KEARSARGE AVE. AND ALL OTHER PUBLIC OR PRIVATE PROJECTS THAT ARE ONGOING WITHIN THE PROJECT LIMITS.
- ALL TRAFFIC SIGNAL EQUIPMENT REMOVED BY THE CONTRACTOR SHALL BE RETURNED TO BTD SIGNAL MAINTENANCE FACILITY AT 12 CHANNEL STREET, SOUTH BOSTON.
- ALL TEMPORARY PEDESTRIAN WALKWAYS AND CROSSINGS TO BE ESTABLISHED AND SET PRIOR TO REMOVAL OF EXISTING WHEELCHAIR RAMPS.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	N. BELLONE
CHECKED BY	S. BERGMAN
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 22 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

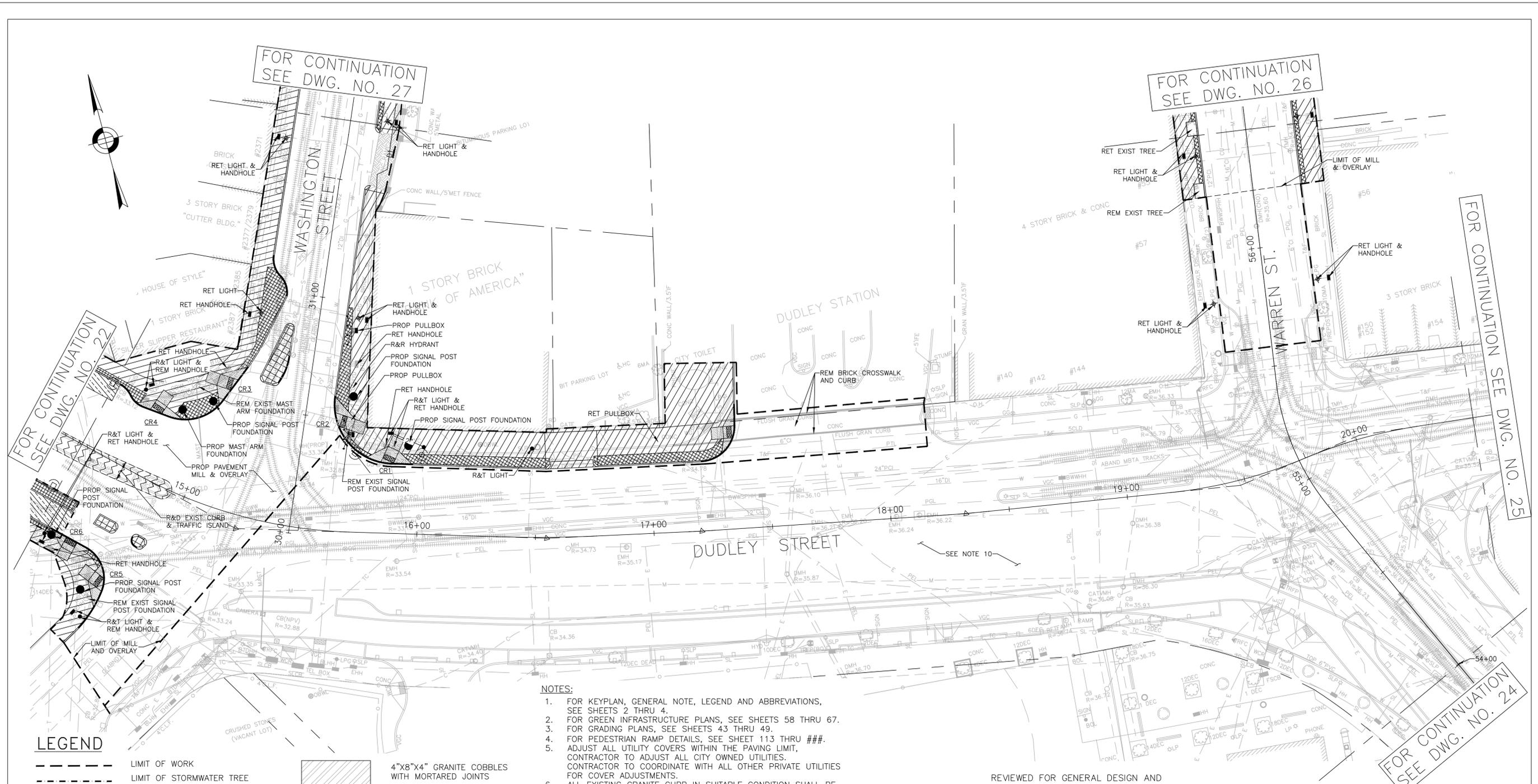
**DUDLEY SQUARE PHASE 2
CONSTRUCTION PLANS**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-22



FOR CONTINUATION
SEE DWG. NO. 27

FOR CONTINUATION
SEE DWG. NO. 26

FOR CONTINUATION
SEE DWG. NO. 22

FOR CONTINUATION
SEE DWG. NO. 25

FOR CONTINUATION
SEE DWG. NO. 24

LEGEND

	LIMIT OF WORK		4"X8"X4" GRANITE COBBLES WITH MORTARED JOINTS
	LIMIT OF STORMWATER TREE TRENCH		NON-POROUS BRICK SIDEWALK ON HOT ASPHALT SETTING BED
	PROPOSED CURB		FULL DEPTH ROADWAY CONSTRUCTION
	R&R CURB		PERMEABLE CONCRETE PAVERS
	LIMIT OF STRUCTURAL SOIL		POROUS ASPHALT
	CEMENT CONCRETE SIDEWALK		
	PROPOSED CEMENT CONCRETE PEDESTRIAN RAMP WITH DETECTABLE WARNING PANEL		

NOTES:

- FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
- FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS 58 THRU 67.
- FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
- FOR PEDESTRIAN RAMP DETAILS, SEE SHEET 113 THRU ###.
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- ALL TRAFFIC SIGNAL EQUIPMENT REMOVED BY THE CONTRACTOR SHALL BE RETURNED TO BTD SIGNAL MAINTENANCE FACILITY AT 12 CHANNEL STREET, SOUTH BOSTON.
- ALL TEMPORARY PEDESTRIAN WALKWAYS AND CROSSINGS TO BE ESTABLISHED AND SET PRIOR TO REMOVAL OF EXISTING WHEELCHAIR RAMPS.
- CONSTRUCTION PLANS SHOW DRAIN AND ROADWAY IMPROVEMENTS CONSTRUCTED UNDER BOSTON PUBLIC WORKS CIP 19-21.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	N. BELLONE
CHECKED BY	S. BERGMAN
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 23 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
CONSTRUCTION PLANS**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

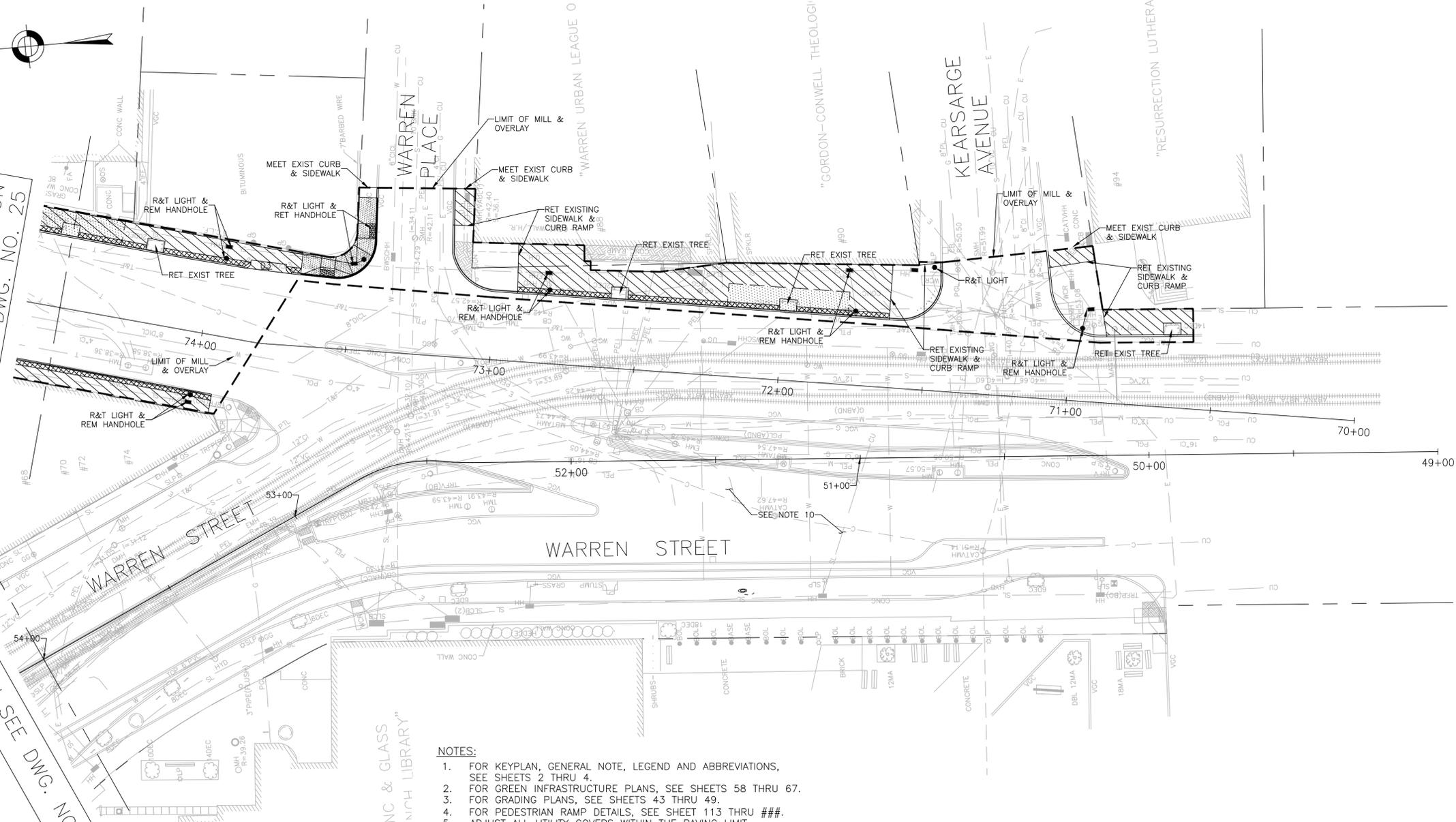
CITY ENGINEER

R-XXXX-23



FOR CONTINUATION
SEE DWG. NO. 25

FOR CONTINUATION
SEE DWG. NO. 23



LEGEND

	LIMIT OF WORK		4"x8"x4" GRANITE COBBLES WITH MORTARED JOINTS
	LIMIT OF STORMWATER TREE TRENCH		NON-POROUS BRICK SIDEWALK ON HOT ASPHALT SETTING BED
	PROPOSED CURB		FULL DEPTH ROADWAY CONSTRUCTION
	R&R CURB		PERMEABLE CONCRETE PAVERS
	LIMIT OF STRUCTURAL SOIL		POROUS ASPHALT
	CEMENT CONCRETE SIDEWALK		
	PROPOSED CEMENT CONCRETE PEDESTRIAN RAMP WITH DETECTABLE WARNING PANEL		

NOTES:

1. FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
2. FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS 58 THRU 67.
3. FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
4. FOR PEDESTRIAN RAMP DETAILS, SEE SHEET 113 THRU ###.
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8. ALL TEMPORARY PEDESTRIAN WALKWAYS AND CROSSINGS TO BE ESTABLISHED AND SET PRIOR TO REMOVAL OF EXISTING WHEELCHAIR RAMPS.
9. CONSTRUCTION PLANS SHOW DRAIN AND ROADWAY IMPROVEMENTS CONSTRUCTED UNDER BOSTON PUBLIC WORKS CIP 19-21.

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	N. BELLONE
CHECKED BY	S. BERGMAN
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 24 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

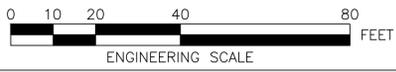
**DUDLEY SQUARE PHASE 2
CONSTRUCTION PLANS**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

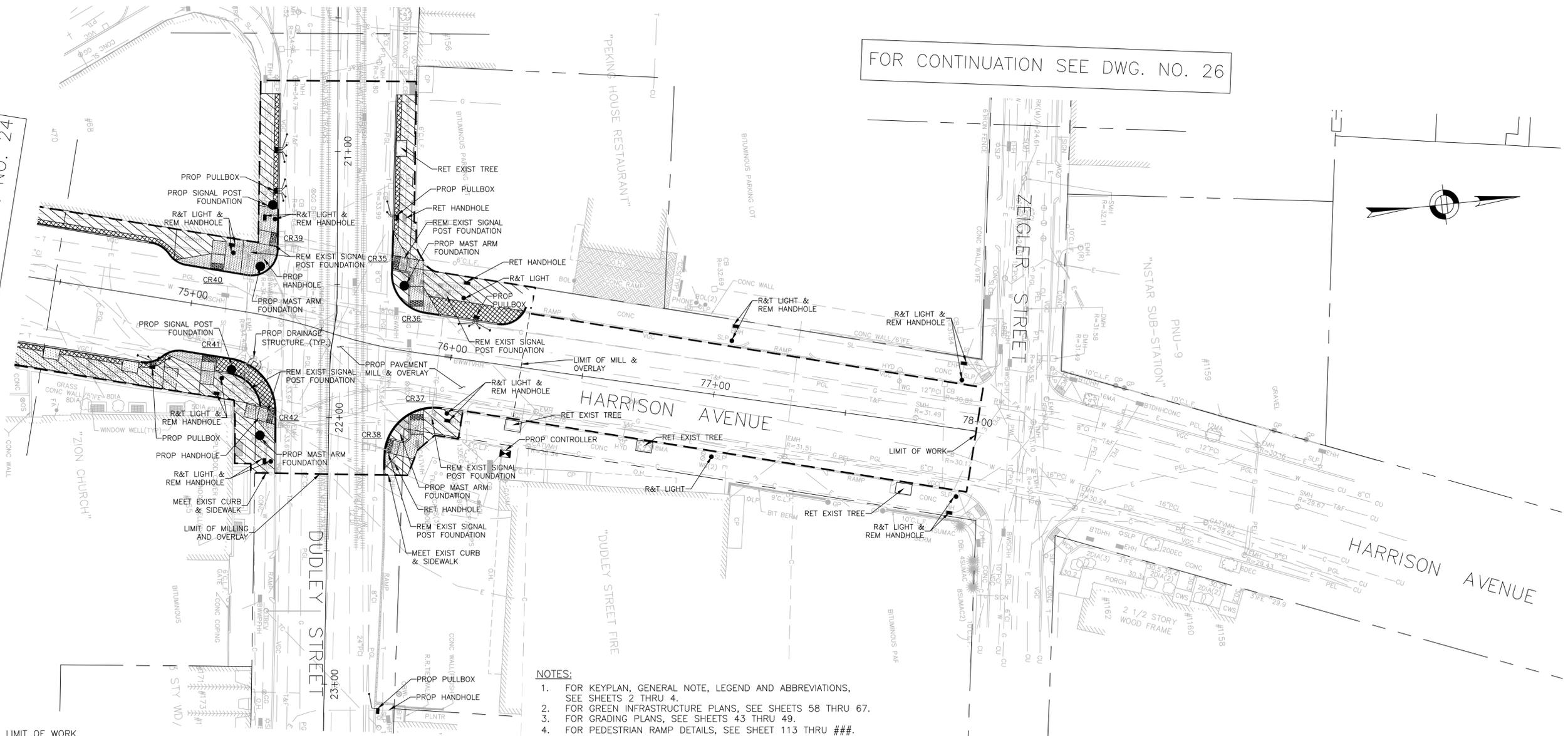
R-XXXX-24



FOR CONTINUATION SEE DWG. NO. 23

FOR CONTINUATION SEE DWG. NO. 26

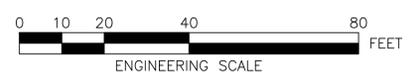
FOR CONTINUATION SEE DWG. NO. 24



LEGEND

	LIMIT OF WORK		4"x8"x4" GRANITE COBBLES WITH MORTARED JOINTS
	LIMIT OF STORMWATER TREE TRENCH		NON-POROUS BRICK SIDEWALK ON HOT ASPHALT SETTING BED
	PROPOSED CURB		FULL DEPTH ROADWAY CONSTRUCTION
	R&R CURB		PERMEABLE CONCRETE PAVERS
	LIMIT OF STRUCTURAL SOIL		POROUS ASPHALT
	CEMENT CONCRETE SIDEWALK		
	PROPOSED CEMENT CONCRETE PEDESTRIAN RAMP WITH DETECTABLE WARNING PANEL		

- NOTES:**
- FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
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REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	N. BELLONE
CHECKED BY	S. BERGMAN
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 25 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

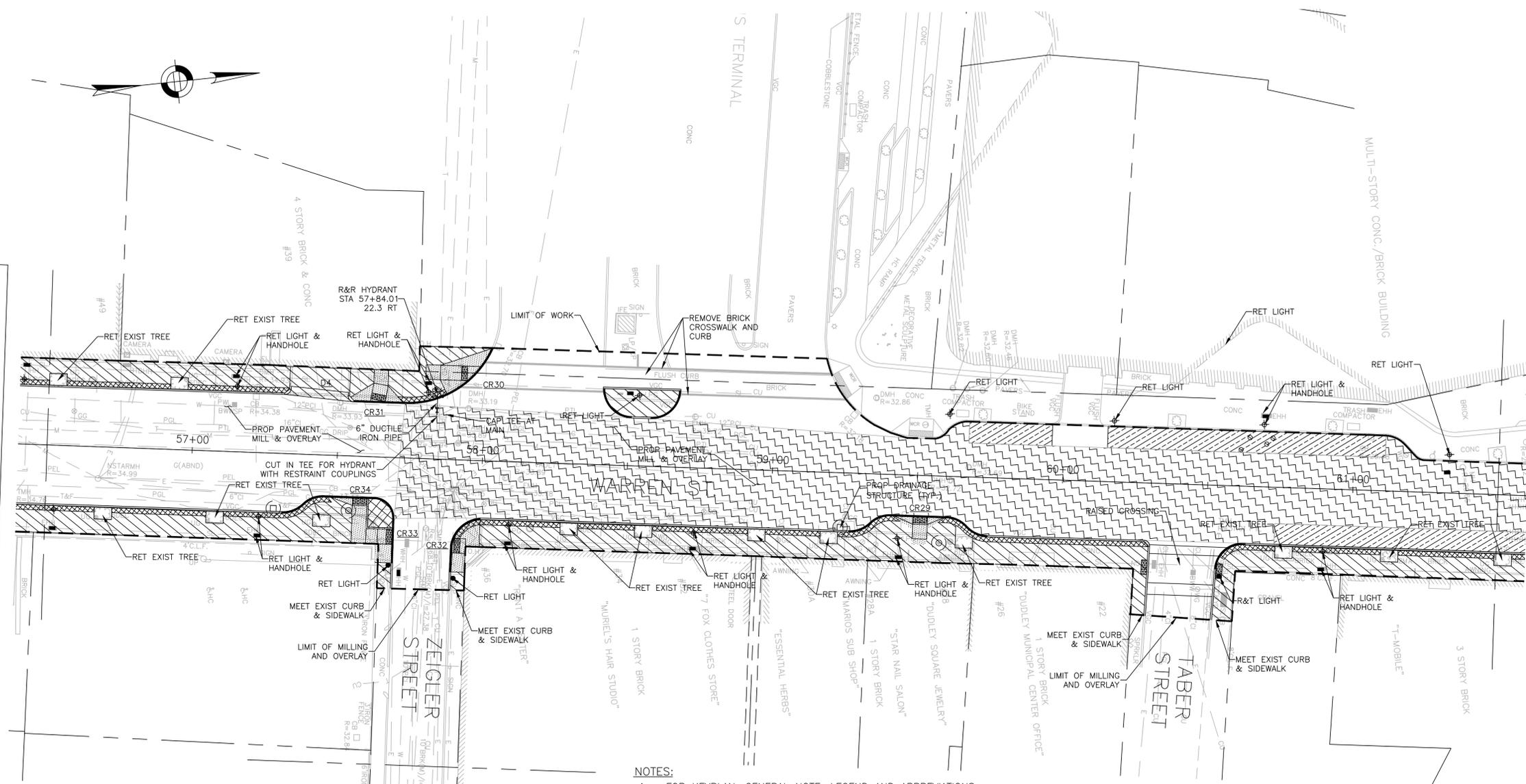
**DUDLEY SQUARE PHASE 2
CONSTRUCTION PLANS**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-25



FOR CONTINUATION SEE DWG. NO. 23

FOR CONTINUATION SEE DWG. NO. 28

LEGEND

- LIMIT OF WORK
- LIMIT OF STORMWATER TREE TRENCH
- PROPOSED CURB
- R&R CURB
- LIMIT OF STRUCTURAL SOIL
- CEMENT CONCRETE SIDEWALK
- PROPOSED CEMENT CONCRETE PEDESTRIAN RAMP WITH DETECTABLE WARNING PANEL

FOR CONTINUATION SEE DWG. NO. 25

- 4"x8"x4" GRANITE COBBLES WITH MORTARED JOINTS
- NON-POROUS BRICK SIDEWALK ON HOT ASPHALT SETTING BED
- FULL DEPTH ROADWAY CONSTRUCTION
- PERMEABLE CONCRETE PAVERS
- POROUS ASPHALT

NOTES:

1. FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
2. FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS 58 THRU 67.
3. FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
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REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	N. BELLONE
CHECKED BY	S. BERGMAN
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 26 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

DUDLEY SQUARE PHASE 2
CONSTRUCTION PLANS

ROXBURY

SCALE: 1" = 20'	AREA: 1
DISTRICT: 10	DATE: FEB. 7, 2019

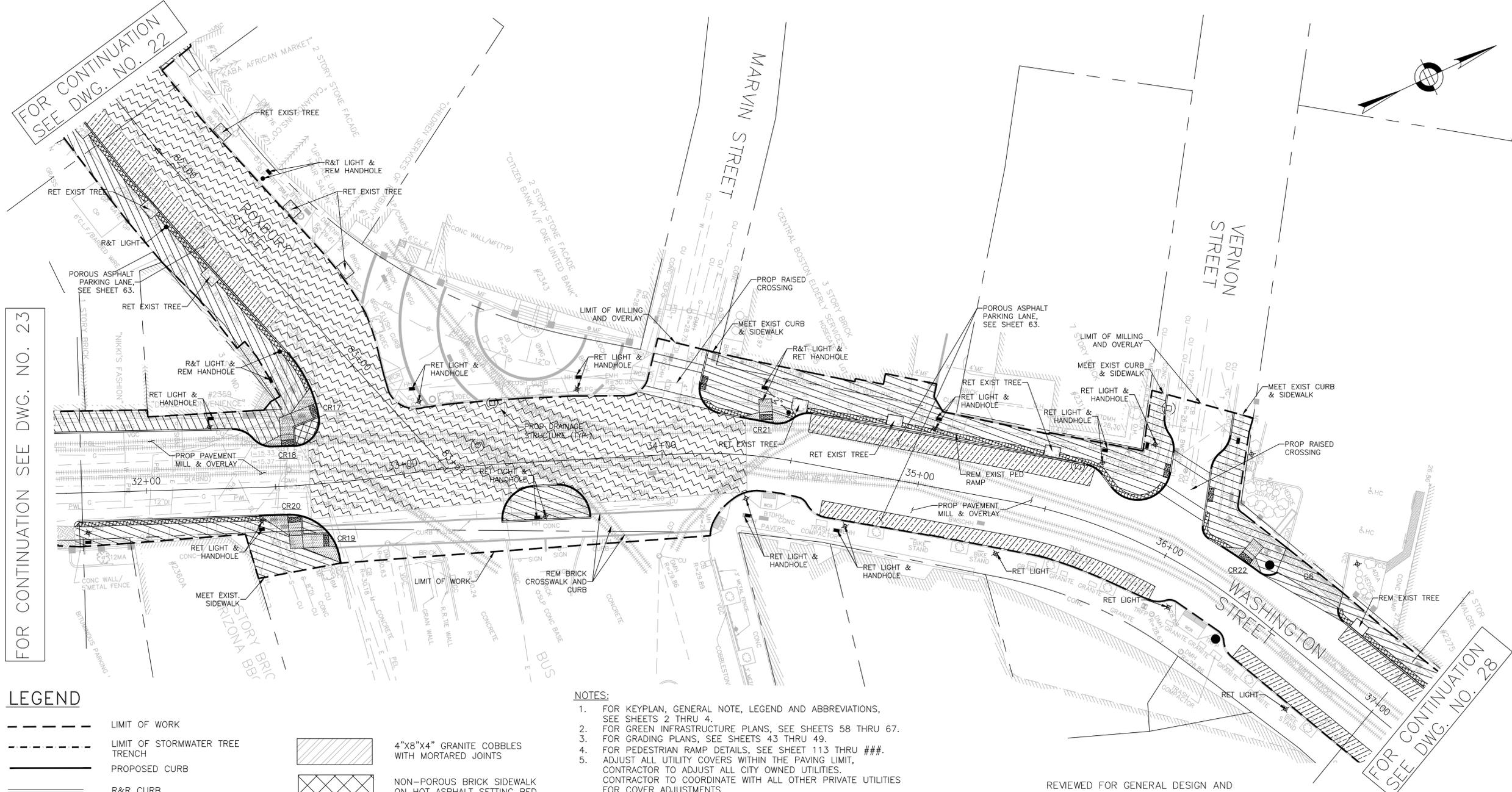
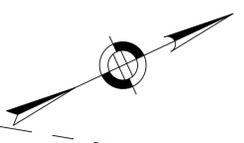
CITY ENGINEER

R-XXXX-26



FOR CONTINUATION
SEE DWG. NO. 22

FOR CONTINUATION SEE DWG. NO. 23



LEGEND

	LIMIT OF WORK		4"x8"x4" GRANITE COBBLES WITH MORTARED JOINTS
	LIMIT OF STORMWATER TREE TRENCH		NON-POROUS BRICK SIDEWALK ON HOT ASPHALT SETTING BED
	PROPOSED CURB		FULL DEPTH ROADWAY CONSTRUCTION
	R&R CURB		PERMEABLE CONCRETE PAVERS
	LIMIT OF STRUCTURAL SOIL		POROUS ASPHALT
	CEMENT CONCRETE SIDEWALK		
	PROPOSED CEMENT CONCRETE PEDESTRIAN RAMP WITH DETECTABLE WARNING PANEL		

- NOTES:**
1. FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
 2. FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS 58 THRU 67.
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REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	N. BELLONE
CHECKED BY	S. BERGMAN
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 27 OF 117

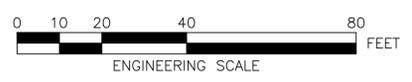
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
**DUDLEY SQUARE PHASE 2
CONSTRUCTION PLANS**
ROXBURY

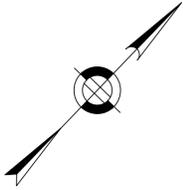
SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

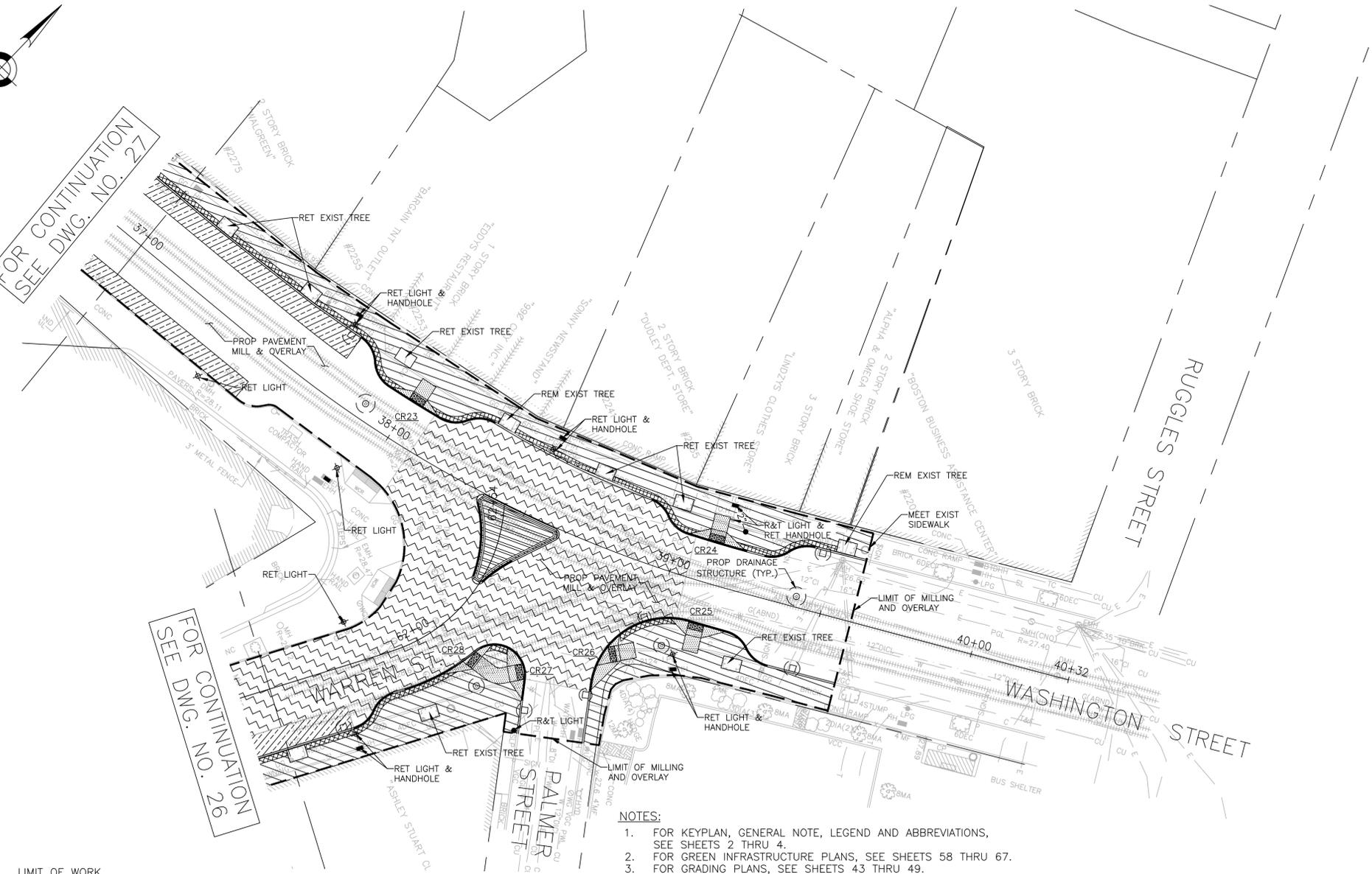
R-XXXX-27





FOR CONTINUATION
SEE DWG. NO. 27

FOR CONTINUATION
SEE DWG. NO. 29



LEGEND

	LIMIT OF WORK		4"X8"X4" GRANITE COBBLES WITH MORTARED JOINTS
	LIMIT OF STORMWATER TREE TRENCH		NON-POROUS BRICK SIDEWALK ON HOT ASPHALT SETTING BED
	PROPOSED CURB		FULL DEPTH ROADWAY CONSTRUCTION
	R&R CURB		PERMEABLE CONCRETE PAVERS
	LIMIT OF STRUCTURAL SOIL		POROUS ASPHALT
	CEMENT CONCRETE SIDEWALK		
	PROPOSED CEMENT CONCRETE PEDESTRIAN RAMP WITH DETECTABLE WARNING PANEL		

NOTES:

1. FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
2. FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS 58 THRU 67.
3. FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
4. FOR PEDESTRIAN RAMP DETAILS, SEE SHEET 113 THRU ###.
5. ADJUST ALL UTILITY COVERS WITHIN THE PAVING LIMIT, CONTRACTOR TO ADJUST ALL CITY OWNED UTILITIES. CONTRACTOR TO COORDINATE WITH ALL OTHER PRIVATE UTILITIES FOR COVER ADJUSTMENTS.
6. ALL EXISTING GRANITE CURB IN SUITABLE CONDITION SHALL BE RE-USED IN THE PROPOSED WORK, EXCEPT CURVED STONES OF A DIFFERENT RADIUS THAN PROPOSED CURB, SUCH STONES SHALL BE TYPE VA4 VERTICAL GRANITE CUBE. EXISTING CURB NOT SUITABLE FOR RE-USE AS DETERMINED BY THE ENGINEER SHALL BE REMOVED AND DISCARDED AND REPLACED WITH VA4. CONTRACTOR SHALL COORDINATE WITH MASSDOT SIGNAL PROJECT AT KEARSARGE AVE. AND ALL OTHER PUBLIC OR PRIVATE PROJECTS THAT ARE ONGOING WITHIN THE PROJECT LIMITS.
7. ALL TRAFFIC SIGNAL EQUIPMENT REMOVED BY THE CONTRACTOR SHALL BE RETURNED TO BTD SIGNAL MAINTENANCE FACILITY AT 12 CHANNEL STREET, SOUTH BOSTON.
8. ALL TEMPORARY PEDESTRIAN WALKWAYS AND CROSSINGS TO BE ESTABLISHED AND SET PRIOR TO REMOVAL OF EXISTING WHEELCHAIR RAMPS.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	N. BELLONE
CHECKED BY	S. BERGMAN
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 28 OF 117

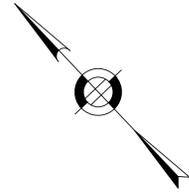
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
**DUDLEY SQUARE PHASE 2
CONSTRUCTION PLANS**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

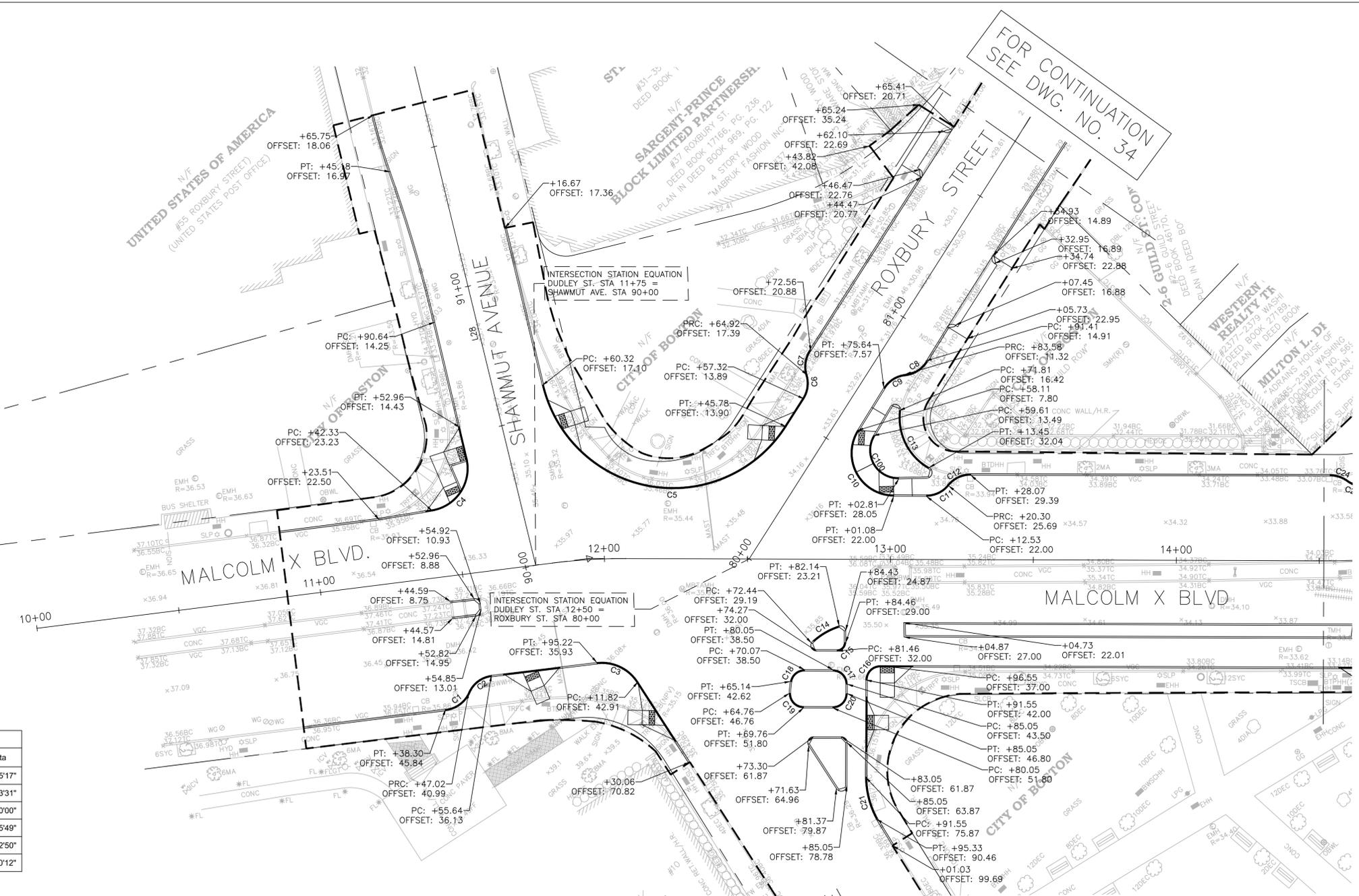
CITY ENGINEER

R-XXXX-28



FOR CONTINUATION
SEE DWG. NO. 34

FOR CONTINUATION SEE DWG. NO. 30



Curve Table				Curve Table			
Curve #	Length	Radius	Delta	Curve #	Length	Radius	Delta
C1*	10.5	10.0	059°53'34"	C18	7.0	5.0	079°55'17"
C2*	10.3	10.0	059°17'01"	C19	7.9	5.0	090°33'31"
C3	16.7	15.0	063°56'12"	C20	7.9	5.0	090°00'00"
C4	24.6	15.0	094°03'36"	C21	15.2	30.0	029°05'49"
C5	109.8	47.0	133°54'30"	C22	21.8	15.0	083°22'50"
C6*	8.6	10.0	049°27'31"	C100	21.3	10.0	121°50'12"
C7*	8.7	10.0	049°40'58"				
C8*	9.1	10.0	051°54'21"				
C9*	9.1	10.0	052°08'24"				
C10	31.8	15.0	121°39'11"				
C11*	8.9	10.0	050°54'01"				
C12*	8.9	10.0	050°58'09"				
C13	23.4	20.0	067°09'20"				
C14	10.4	25.0	023°50'44"				
C15	4.7	3.0	089°59'52"				
C16	7.9	5.0	090°00'00"				

* CURB TO BE CUT AT REVERSE

NOTES:

- FOR KEYPLAN, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 & 4.
- FOR GENERAL NOTES, SEE SHEET 3.
- FOR TYPICAL SECTIONS, SEE SHEETS 5 & 7.
- FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
- FOR DRAINAGE PLANS, SEE SHEETS 36 THRU 42.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES
 DRAWN BY L. NEWMAN
 CHECKED BY S. BERGMAN
 APPROVED BY A. SANTORO

CIP XX-XX SHEET 29 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION

DUDLEY SQUARE PHASE 2
CURB TIE PLANS
 ROXBURY

SCALE: 1" = 20'
 DISTRICT: 10

AREA: 1
 DATE: FEB. 7, 2019

CITY ENGINEER

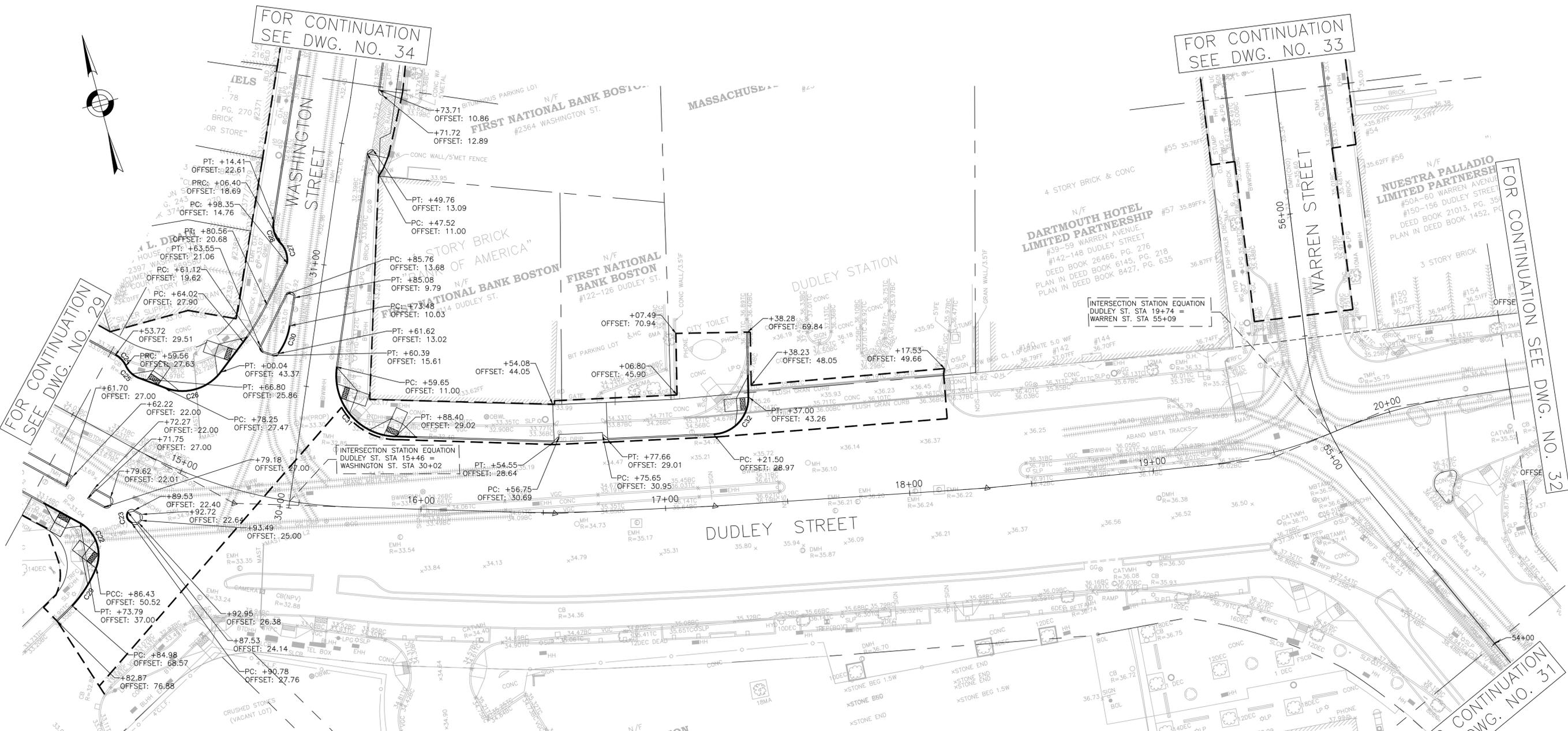
R-XXXX-29





FOR CONTINUATION
SEE DWG. NO. 34

FOR CONTINUATION
SEE DWG. NO. 33



FOR CONTINUATION
SEE DWG. NO. 29

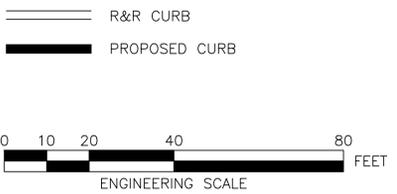
FOR CONTINUATION
SEE DWG. NO. 32

FOR CONTINUATION
SEE DWG. NO. 31

Curve #	Length	Radius	Delta
C22	21.8	15.0	083°22'50"
C23	4.8	3.0	092°03'02"
C24*	6.2	10.0	035°41'58"
C25*	7.6	10.0	043°48'04"
C26	25.7	20.0	073°32'28"
C27*	9.3	10.0	053°11'47"
C28*	9.2	10.0	052°58'37"
C29	20.9	50.0	023°57'27"
C30	12.7	25.0	029°05'11"
C31	42.1	25.0	096°28'56"
C32	23.1	15.0	088°23'18"

* CURB TO BE CUT AT REVERSE

- NOTES:
- FOR KEYPLAN, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 & 4.
 - FOR GENERAL NOTES, SEE SHEET 3.
 - FOR TYPICAL SECTIONS, SEE SHEETS 5 & 7.
 - FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
 - FOR DRAINAGE PLANS, SEE SHEETS 36 THRU 42.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY L. NEWMAN

CHECKED BY S. BERGMAN

APPROVED BY A. SANTORO

CIP XX-XX SHEET 30 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

DUDLEY SQUARE PHASE 2
CURB TIE PLANS
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

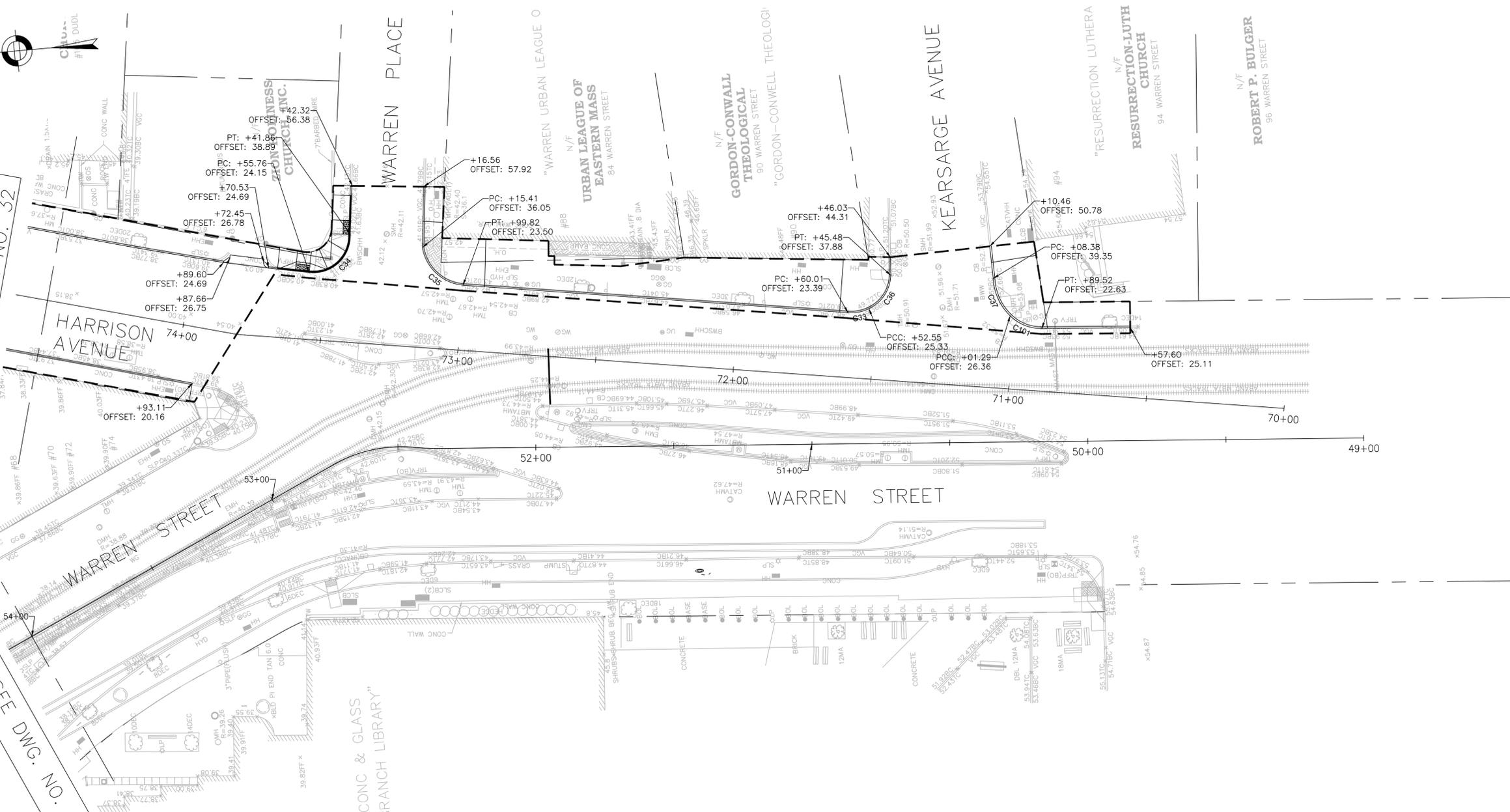
CITY ENGINEER _____

R-XXXX-30



FOR CONTINUATION
SEE DWG. NO. 32

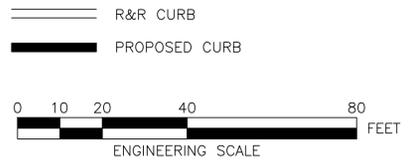
FOR CONTINUATION
SEE DWG. NO. 30



Curve Table			
Curve #	Length	Radius	Delta
C33	7.8	14.7	030°31'04"
C34	23.1	13.3	099°27'06"
C35	20.8	16.3	073°07'42"
C36	15.2	13.6	063°50'15"
C37	15.2	19.9	043°41'49"
C101	12.7	15.7	046°25'33"

NOTES:

1. FOR KEYPLAN, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 & 4.
2. FOR GENERAL NOTES, SEE SHEET 3.
3. FOR TYPICAL SECTIONS, SEE SHEETS 5 & 7.
4. FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
5. FOR DRAINAGE PLANS, SEE SHEETS 36 THRU 42.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY L. NEWMAN

CHECKED BY S. BERGMAN

APPROVED BY A. SANTORO

CIP XX-XX SHEET 31 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
CURB TIE PLANS**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

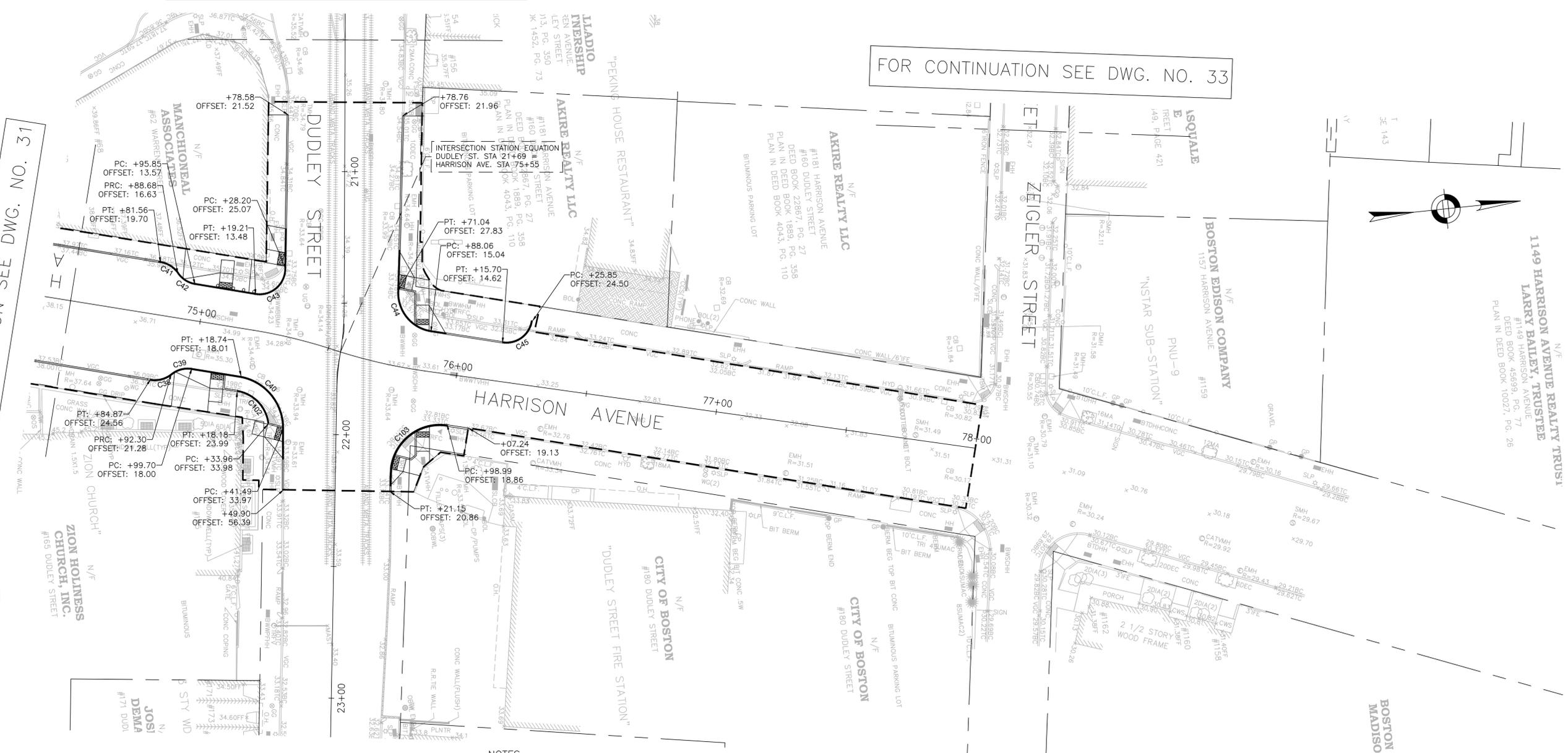
AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

FOR CONTINUATION SEE DWG. NO. 30

FOR CONTINUATION SEE DWG. NO. 33

FOR CONTINUATION SEE DWG. NO. 31



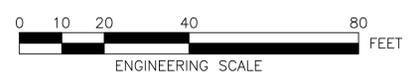
- NOTES:
1. FOR KEYPLAN, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 & 4.
 2. FOR GENERAL NOTES, SEE SHEET 3.
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 4. FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
 5. FOR DRAINAGE PLANS, SEE SHEETS 36 THRU 42.

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

Curve #	Length	Radius	Delta
C38	8.4	10.0	047°55'56"
C39	8.3	10.0	047°47'38"
C40	28.3	20.0	080°59'27"
C41	8.0	10.0	045°36'32"
C42	8.0	10.0	045°51'01"
C43	17.2	10.0	098°26'43"
C44	21.7	15.0	082°58'31"
C45	15.7	10.0	090°09'54"
C102	18.3	14.0	074°50'17"
C103	30.5	19.0	092°04'27"

* CURB TO BE CUT AT REVERSE

==== R&R CURB
 ——— PROPOSED CURB



BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES
 DRAWN BY L. NEWMAN
 CHECKED BY S. BERGMAN
 APPROVED BY A. SANTORO

CIP XX-XX SHEET 32 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
CURB TIE PLANS
 ROXBURY

SCALE: 1" = 20'
 DISTRICT: 10

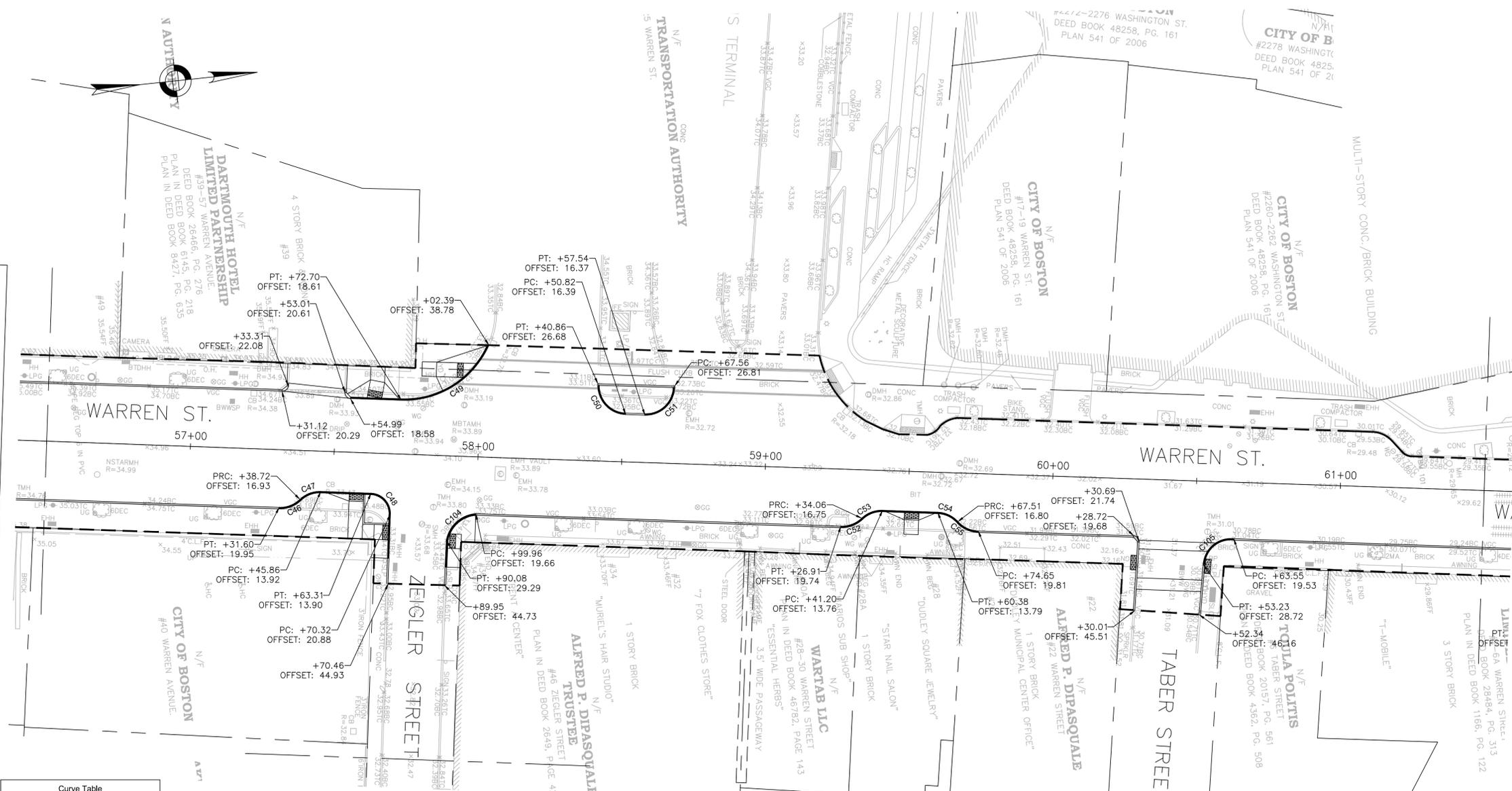
AREA: 1
 DATE: FEB. 7, 2019

 CITY ENGINEER

R-XXXX-32

FOR CONTINUATION SEE DWG. NO. 30

FOR CONTINUATION SEE DWG. NO. 35



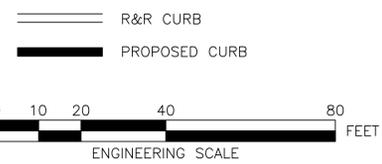
FOR CONTINUATION SEE DWG. NO. 32

Curve #	Length	Radius	Delta
C46*	7.9	10.0	045°26'24"
C47*	8.0	10.0	045°37'03"
C48	11.0	7.0	089°55'31"
C49	38.1	32.0	068°13'11"
C50	16.0	10.0	091°29'45"
C51	16.2	10.0	092°44'55"
C52*	8.0	10.0	045°35'50"
C53*	8.0	10.0	045°33'48"
C54*	8.0	10.0	045°33'43"
C55*	8.0	10.0	045°34'37"
C104	14.9	11.2	075°48'15"
C105	15.4	9.6	092°22'36"

* CURB TO BE CUT AT REVERSE

NOTES:

- FOR KEYPLAN, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 & 4.
- FOR GENERAL NOTES, SEE SHEET 3.
- FOR TYPICAL SECTIONS, SEE SHEETS 5 & 7.
- FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
- FOR DRAINAGE PLANS, SEE SHEETS 36 THRU 42.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES
 DRAWN BY L. NEWMAN
 CHECKED BY S. BERGMAN
 APPROVED BY A. SANTORO

CIP XX-XX SHEET 33 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
CURB TIE PLANS
 ROXBURY

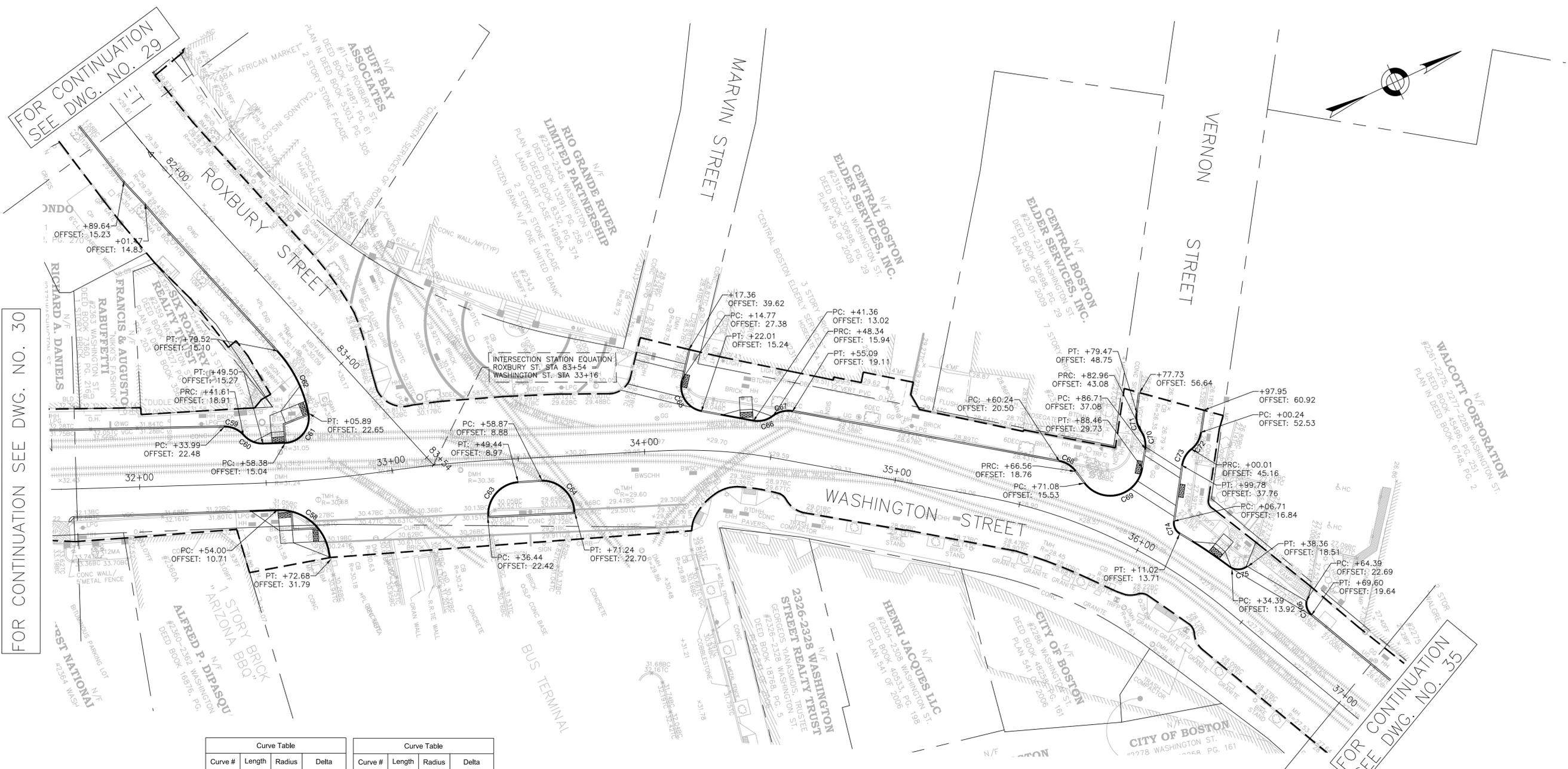
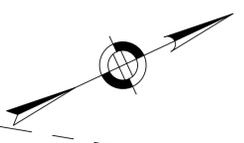
SCALE: 1" = 20'
 DISTRICT: 10
 AREA: 1
 DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-33

FOR CONTINUATION
SEE DWG. NO. 29

FOR CONTINUATION SEE DWG. NO. 30



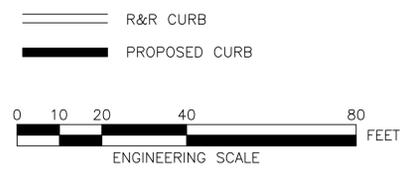
Curve Table			
Curve #	Length	Radius	Delta
C58	28.1	20.0	080°24'13"
C59*	8.6	10.0	049°32'50"
C60*	8.7	10.0	049°57'59"
C61	17.2	10.0	098°46'51"
C62	27.8	50.0	031°50'50"
C63	20.6	13.0	090°55'57"
C64	20.7	13.0	091°01'17"
C65	16.3	10.0	093°14'32"
C66*	8.3	10.0	047°24'08"
C67*	8.0	10.0	046°04'55"
C68	7.3	10.0	041°45'21"
C69	30.4	13.0	133°48'25"
C70*	7.7	10.0	043°55'24"

Curve Table			
Curve #	Length	Radius	Delta
C71*	7.2	10.0	041°30'51"
C72*	7.5	10.0	043°15'01"
C73*	7.6	10.0	043°28'57"
C74	5.9	5.0	067°51'30"
C75	7.9	6.0	075°16'22"
C106	6.3	6.0	060°27'41"

* CURB TO BE CUT AT REVERSE

NOTES:

1. FOR KEYPLAN, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 & 4.
2. FOR GENERAL NOTES, SEE SHEET 3.
3. FOR TYPICAL SECTIONS, SEE SHEETS 5 & 7.
4. FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
5. FOR DRAINAGE PLANS, SEE SHEETS 36 THRU 42.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES
 DRAWN BY L. NEWMAN
 CHECKED BY S. BERGMAN
 APPROVED BY A. SANTORO

CIP XX-XX SHEET 34 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION

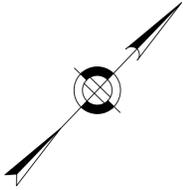
DUDLEY SQUARE PHASE 2
CURB TIE PLANS
 ROXBURY

SCALE: 1" = 20'
 DISTRICT: 10

AREA: 1
 DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-34

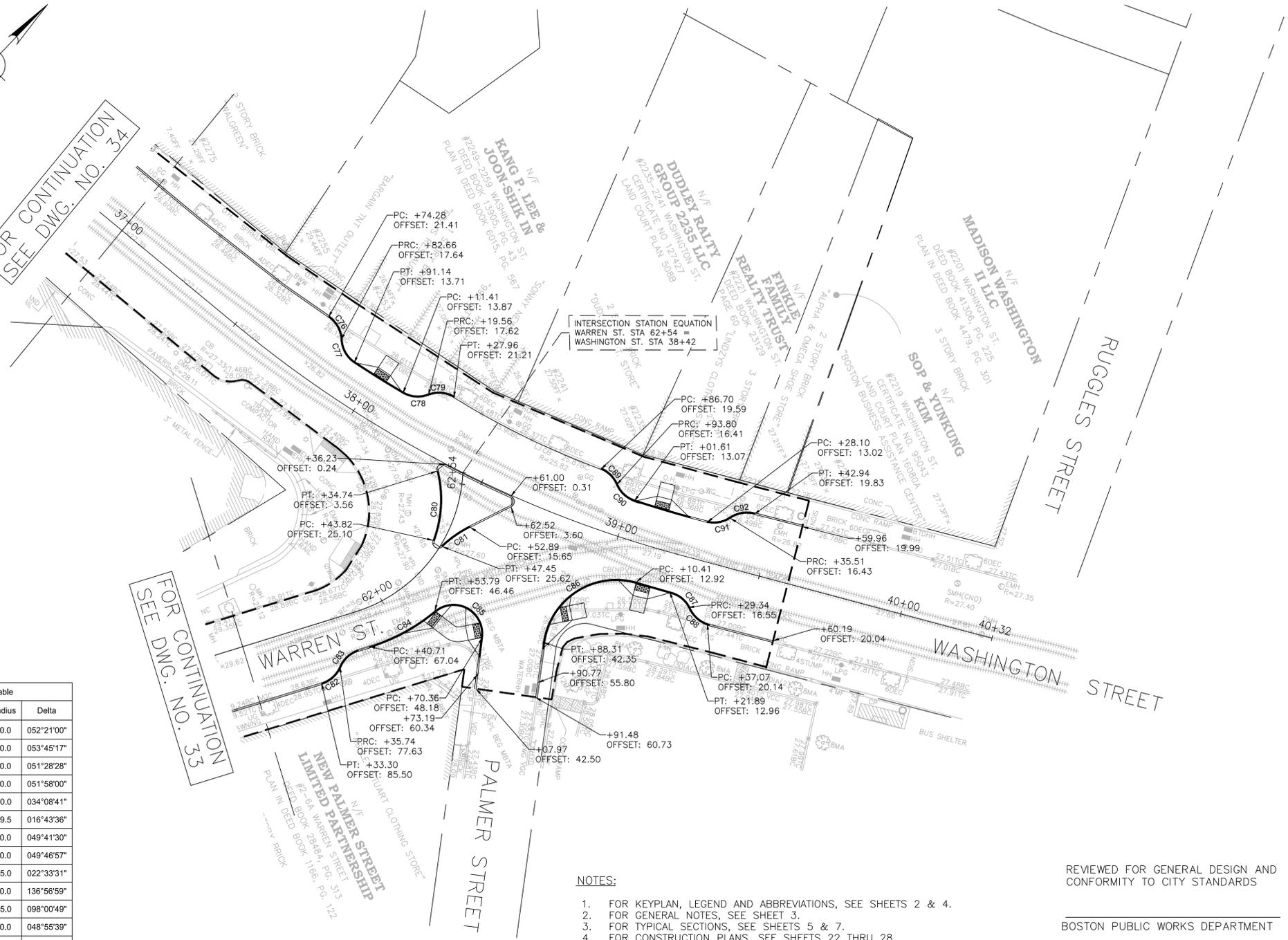


FOR CONTINUATION
SEE DWG. NO. 34

FOR CONTINUATION
SEE DWG. NO. 33

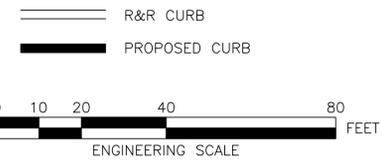
Curve #	Length	Radius	Delta
C76*	9.1	10.0	052°21'00"
C77*	9.4	10.0	053°45'17"
C78*	9.0	10.0	051°28'28"
C79*	9.1	10.0	051°58'00"
C80	23.9	40.0	034°08'41"
C81	11.5	39.5	016°43'36"
C82*	8.7	10.0	049°41'30"
C83*	8.7	10.0	049°46'57"
C84	25.6	65.0	022°33'31"
C85	23.9	10.0	136°56'59"
C86	42.8	25.0	098°00'49"
C87*	8.5	10.0	048°55'39"
C88*	8.8	10.0	050°23'39"
C89*	7.7	10.0	044°00'28"
C90*	8.5	10.0	048°37'06"
C91*	8.4	10.0	048°08'28"
C92*	8.4	10.0	048°12'08"

* CURB TO BE CUT AT REVERSE



NOTES:

1. FOR KEYPLAN, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 & 4.
2. FOR GENERAL NOTES, SEE SHEET 3.
3. FOR TYPICAL SECTIONS, SEE SHEETS 5 & 7.
4. FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
5. FOR DRAINAGE PLANS, SEE SHEETS 36 THRU 42.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	L. NEWMAN
CHECKED BY	S. BERGMAN
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 35 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

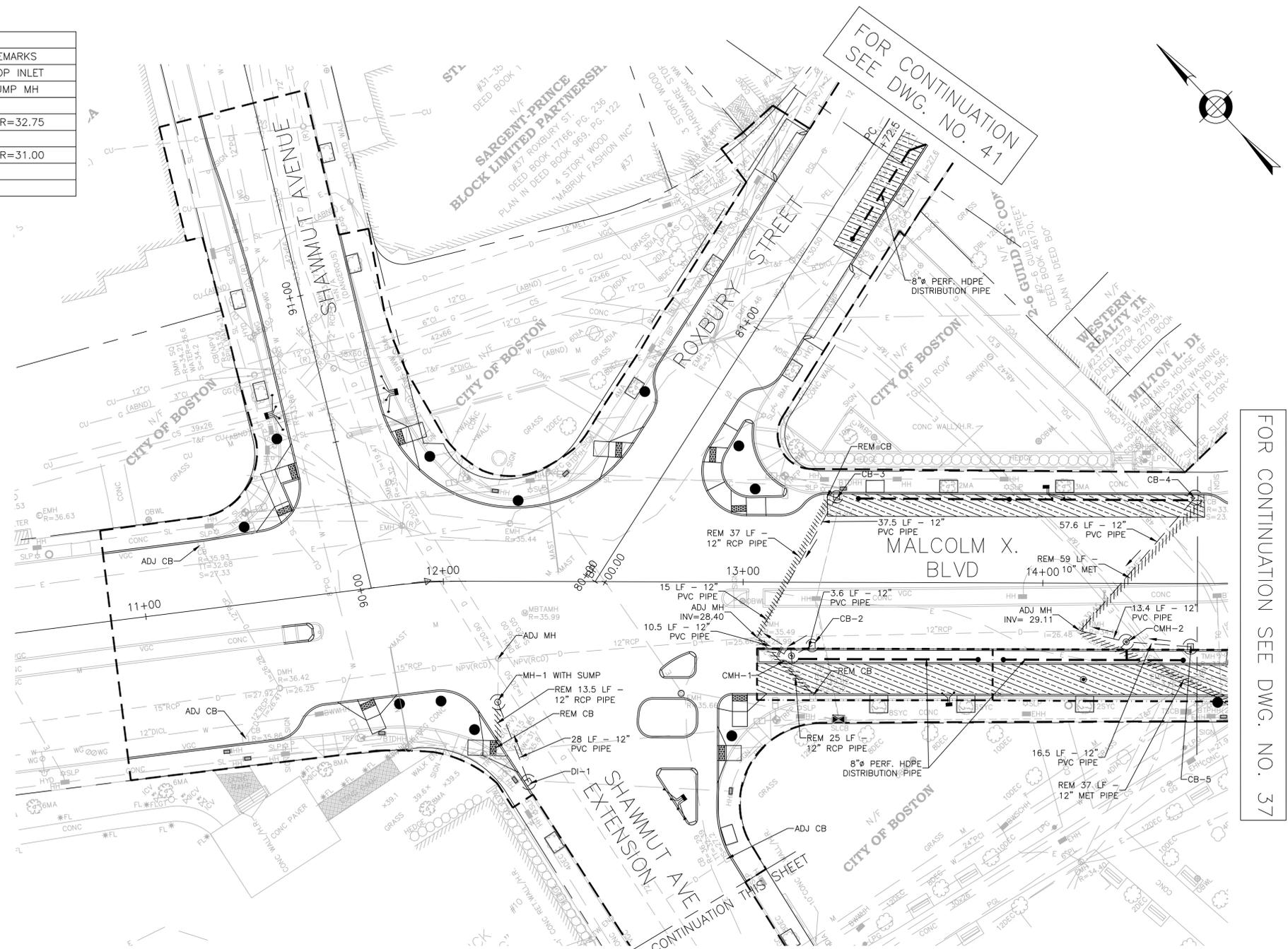
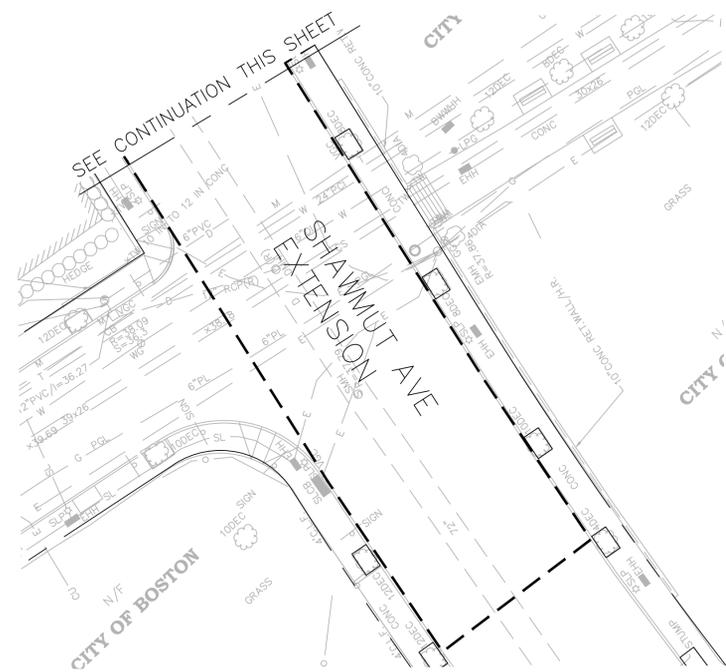
**DUDLEY SQUARE PHASE 2
CURB TIE PLANS**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

DRAINAGE STRUCTURE TABLE						
NAME	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
DI-1	12+28.6	66.7 FT	35.17	-	20.70	DROP INLET
MH-1	12+18.2	40.1 FT	36.01	20.67	20.57	SUMP MH
CB-2	13+23.1	21.0 FT	35.15	-	31.77	
CMH-1	13+16.3	41.3 FT	35.72	31.75	31.0	WEIR=32.75
CB-3	13+31.1	28.4 FT	33.85	-	26.35	
CMH-2	14+27.9	19.5 FT	33.92	30.00	29.25	WEIR=31.00
CB-4	14+50.7	28.5 FT	33.06	-	31.12	
CB-5	14+49.3	21.0 FT	33.74	-	30.08	



- LEGEND**
- LIMIT OF STRUCTURAL SOIL
 - POROUS ASPHALT
 - STORMWATER PIPE
 - 8" PERFORATED HDPE DISTRIBUTION STORMWATER PIPE
 - 8" SOLID HDPE STORMWATER PIPE
 - LIMIT OF STORMWATER TRENCH
 - PROPERTY LINE
 - ANTI-SEEP COLLAR
 - CLEANOUT
 - OBSERVATION WELL
 - CATCHBASIN
 - CONTROL DRAINAGE MANHOLE (CMH)
 - DRAINAGE MANHOLE (MH)
 - TEST PIT

- NOTES:**
- DRAINAGE PLANS SHOW WATER, SEWER & DRAIN IMPROVEMENTS CONSTRUCTED UNDER BWSC CONTRACT NO. 11-309-009.
 - FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
 - FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
 - FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS 58 THRU 64.
 - FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
 - ADJUST ALL UTILITY COVERS WITHIN THE PAVING LIMIT, CONTRACTOR TO ADJUST ALL CITY OWNED UTILITIES. CONTRACTOR TO COORDINATE WITH ALL OTHER PRIVATE UTILITIES FOR COVER ADJUSTMENTS.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO COMMISSION STANDARDS

BOSTON WATER AND SEWER COMMISSION

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	S. BERGMAN
CHECKED BY	P. FUSCO
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 36 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
DRAINAGE & UTILITIES PLANS**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

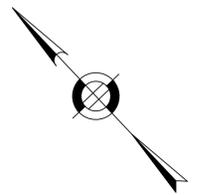
AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

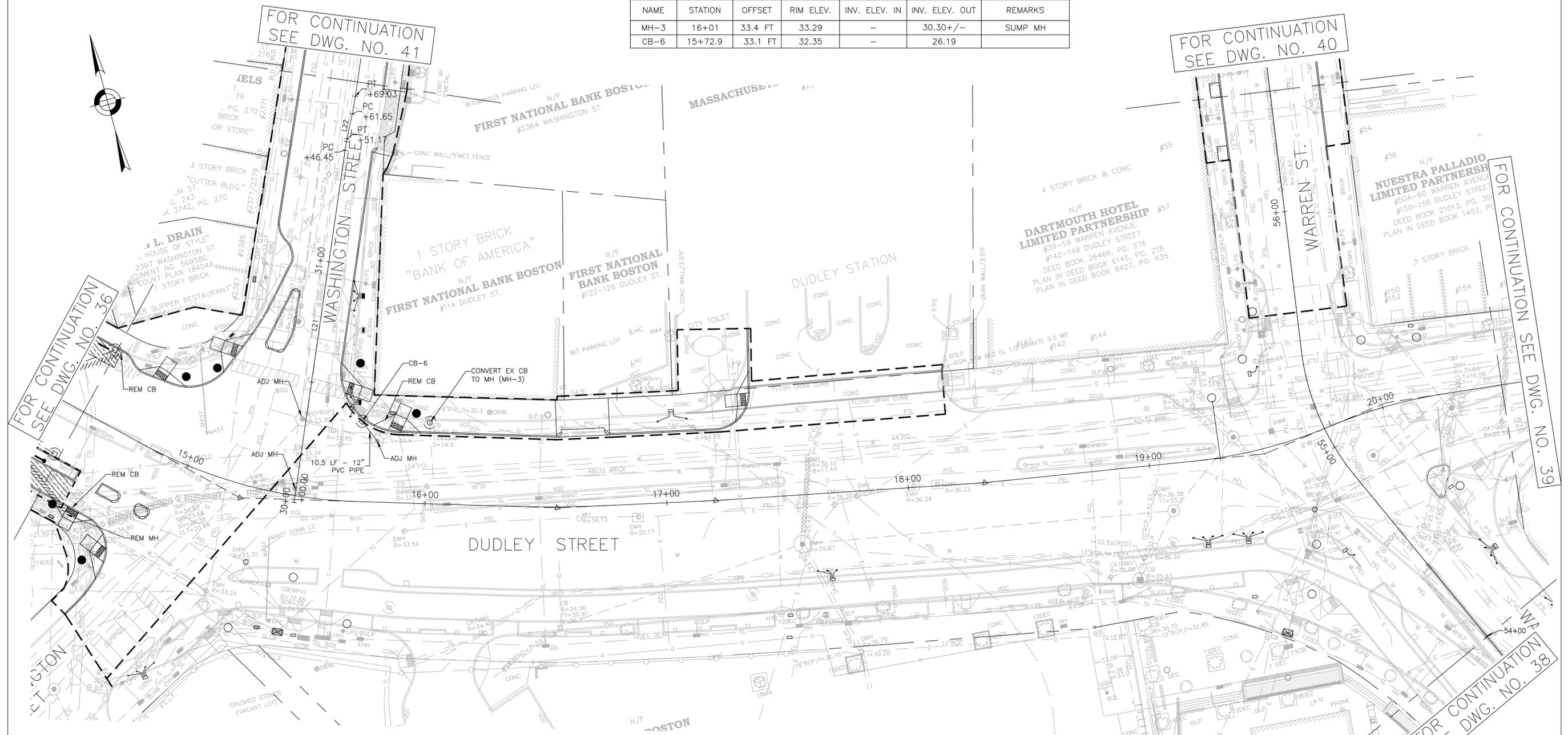
R-XXXX-36

FOR CONTINUATION SEE DWG. NO. 37

FOR CONTINUATION
SEE DWG. NO. 41



DRAINAGE STRUCTURE TABLE						
NAME	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
MH-3	16+01	33.4 FT	33.29	-	30.30+/-	SUMP MH
CB-6	15+72.9	33.1 FT	32.35	-	26.19	



FOR CONTINUATION
SEE DWG. NO. 41

FOR CONTINUATION
SEE DWG. NO. 40

FOR CONTINUATION
SEE DWG. NO. 36

FOR CONTINUATION
SEE DWG. NO. 39

FOR CONTINUATION
SEE DWG. NO. 38

- LEGEND**
- LIMIT OF STRUCTURAL SOIL
 - POROUS ASPHALT
 - STORMWATER PIPE
 - 8" PERFORATED HDPE DISTRIBUTION STORMWATER PIPE
 - 8" SOLID HDPE STORMWATER PIPE
 - LIMIT OF STORMWATER TRENCH
 - PROPERTY LINE
 - ANTI-SEEP COLLAR
 - CLEANOUT
 - OBSERVATION WELL
 - CATCHBASIN
 - CONTROL DRAINAGE MANHOLE (CMH)
 - DRAINAGE MANHOLE (MH)
 - TEST PIT

- NOTES:**
- DRAINAGE PLANS SHOW WATER, SEWER & DRAIN IMPROVEMENTS CONSTRUCTED UNDER BWSC CONTRACT NO. 11-309-009.
 - DRAINAGE PLANS SHOW DRAIN AND ROADWAY IMPROVEMENTS CONSTRUCTED UNDER BOSTON PUBLIC WORKS CIP 19-21.
 - FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
 - FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
 - FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS 58 THRU 64.
 - FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
 - ADJUST ALL UTILITY COVERS WITHIN THE PAVING LIMIT. CONTRACTOR TO ADJUST ALL CITY OWNED UTILITIES. CONTRACTOR TO COORDINATE WITH ALL OTHER PRIVATE UTILITIES FOR COVER ADJUSTMENTS.

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO COMMISSION STANDARDS

BOSTON WATER AND SEWER COMMISSION

SURVEY BY BRYANT ASSOCIATES

DRAWN BY S. BERGMAN

CHECKED BY P. FUSCO

APPROVED BY A. SANTORO

CIP XX-XX SHEET 37 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
DRAINAGE & UTILITIES PLANS**
ROXBURY

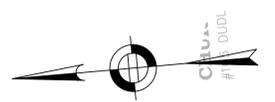
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DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

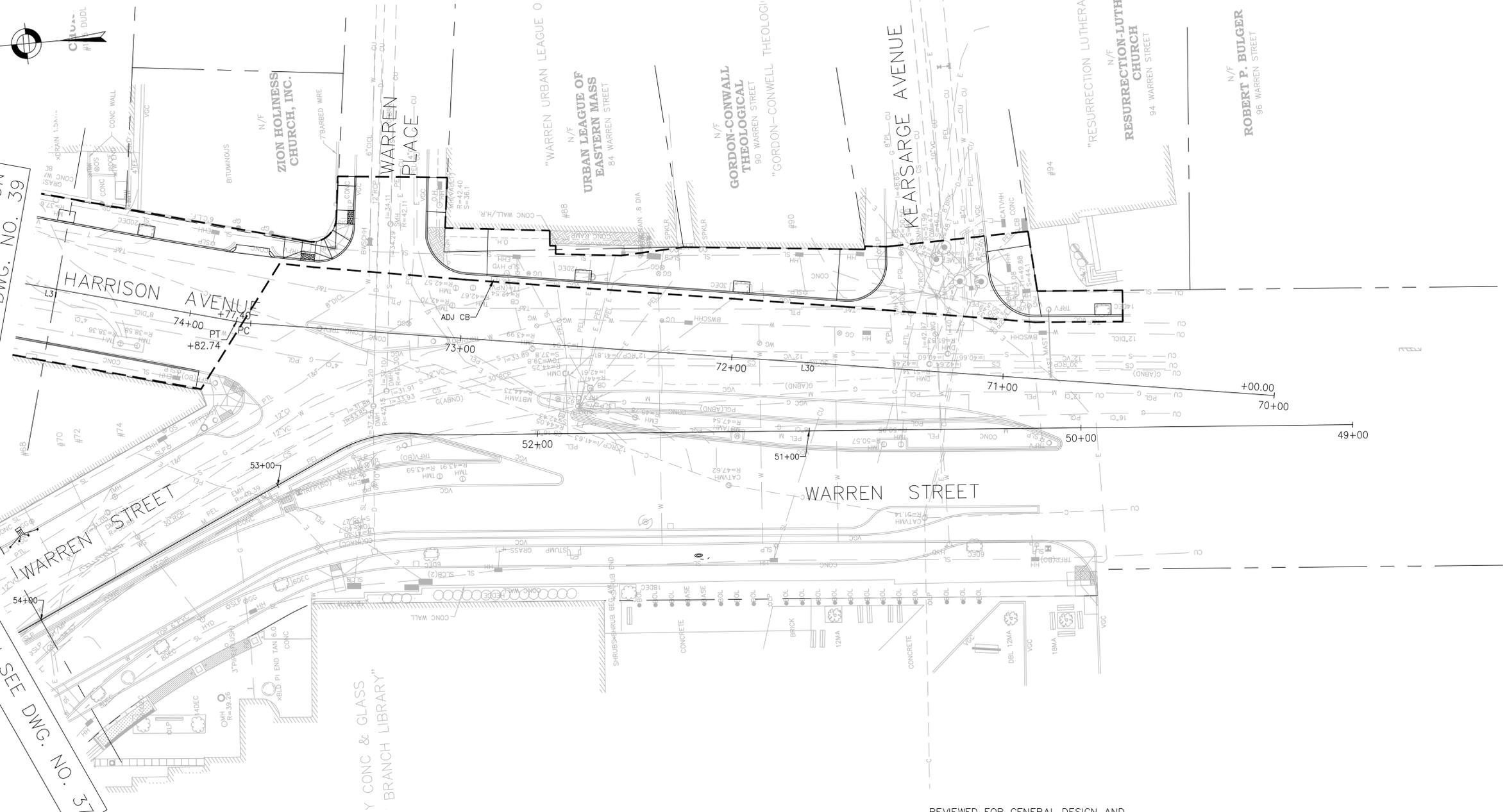
R-XXXX-37





FOR CONTINUATION
SEE DWG. NO. 39

FOR CONTINUATION
SEE DWG. NO. 37



LEGEND

- | | | | |
|--|---|--|--------------------------------|
| | LIMIT OF STRUCTURAL SOIL | | ANTI-SEEP COLLAR |
| | POROUS ASPHALT | | CLEANOUT |
| | STORMWATER PIPE | | OBSERVATION WELL |
| | 8" PERFORATED HDPE DISTRIBUTION STORMWATER PIPE | | CATCHBASIN |
| | 8" SOLID HDPE STORMWATER PIPE | | CONTROL DRAINAGE MANHOLE (CMH) |
| | LIMIT OF STORMWATER TRENCH | | DRAINAGE MANHOLE (MH) |
| | PROPERTY LINE | | TEST PIT |

NOTES:

1. DRAINAGE PLANS SHOW WATER, SEWER & DRAIN IMPROVEMENTS CONSTRUCTED UNDER BWSC CONTRACT NO. 11-309-009.
2. DRAINAGE PLANS SHOW DRAIN AND ROADWAY IMPROVEMENTS CONSTRUCTED UNDER BOSTON PUBLIC WORKS CIP 19-21.
3. FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
4. FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
5. FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS 58 THRU 64.
6. FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
7. ADJUST ALL UTILITY COVERS WITHIN THE PAVING LIMIT, CONTRACTOR TO ADJUST ALL CITY OWNED UTILITIES. CONTRACTOR TO COORDINATE WITH ALL OTHER PRIVATE UTILITIES FOR COVER ADJUSTMENTS.

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO COMMISSION STANDARDS

BOSTON WATER AND SEWER COMMISSION

SURVEY BY BRYANT ASSOCIATES

DRAWN BY S. BERGMAN

CHECKED BY P. FUSCO

APPROVED BY A. SANTORO



CIP XX-XX SHEET 38 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
DRAINAGE & UTILITIES PLANS
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

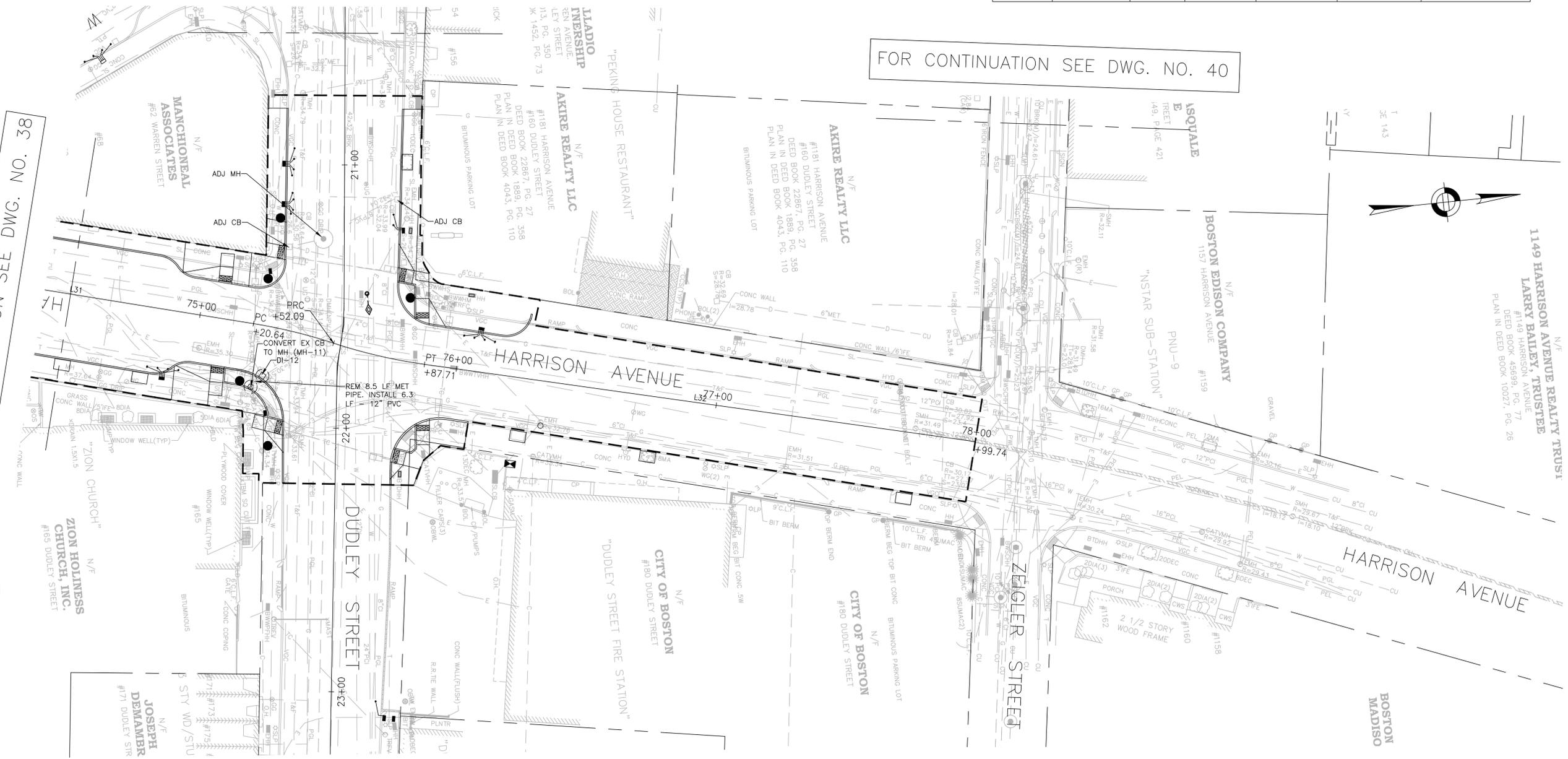
CITY ENGINEER

R-XXXX-38

FOR CONTINUATION SEE DWG. NO. 37

FOR CONTINUATION SEE DWG. NO. 40

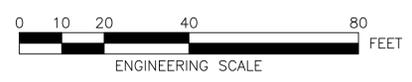
DRAINAGE STRUCTURE TABLE						
NAME	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
DI-12	21+81.3	28.5 FT	34.30	-	30.54	DROP INLET
MH-11	21+84.9	32.8 FT	34.90	30.51±	-	SUMP MH



FOR CONTINUATION SEE DWG. NO. 38

- LEGEND**
- LIMIT OF STRUCTURAL SOIL
 - POROUS ASPHALT
 - STORMWATER PIPE
 - 8" PERFORATED HDPE DISTRIBUTION STORMWATER PIPE
 - 8" SOLID HDPE STORMWATER PIPE
 - LIMIT OF STORMWATER TRENCH
 - PROPERTY LINE
 - ANTI-SEEP COLLAR
 - CLEANOUT
 - OBSERVATION WELL
 - CATCHBASIN
 - CONTROL DRAINAGE MANHOLE (CMH)
 - DRAINAGE MANHOLE (MH)
 - TEST PIT

- NOTES:**
- DRAINAGE PLANS SHOW WATER, SEWER & DRAIN IMPROVEMENTS CONSTRUCTED UNDER BWSC CONTRACT NO. 11-309-009. FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
 - FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28. FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS 58 THRU 64.
 - FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
 - ADJUST ALL UTILITY COVERS WITHIN THE PAVING LIMIT, CONTRACTOR TO ADJUST ALL CITY OWNED UTILITIES. CONTRACTOR TO COORDINATE WITH ALL OTHER PRIVATE UTILITIES FOR COVER ADJUSTMENTS.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO COMMISSION STANDARDS

BOSTON WATER AND SEWER COMMISSION

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	S. BERGMAN
CHECKED BY	P. FUSCO
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 39 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
DRAINAGE & UTILITIES PLANS**
ROXBURY

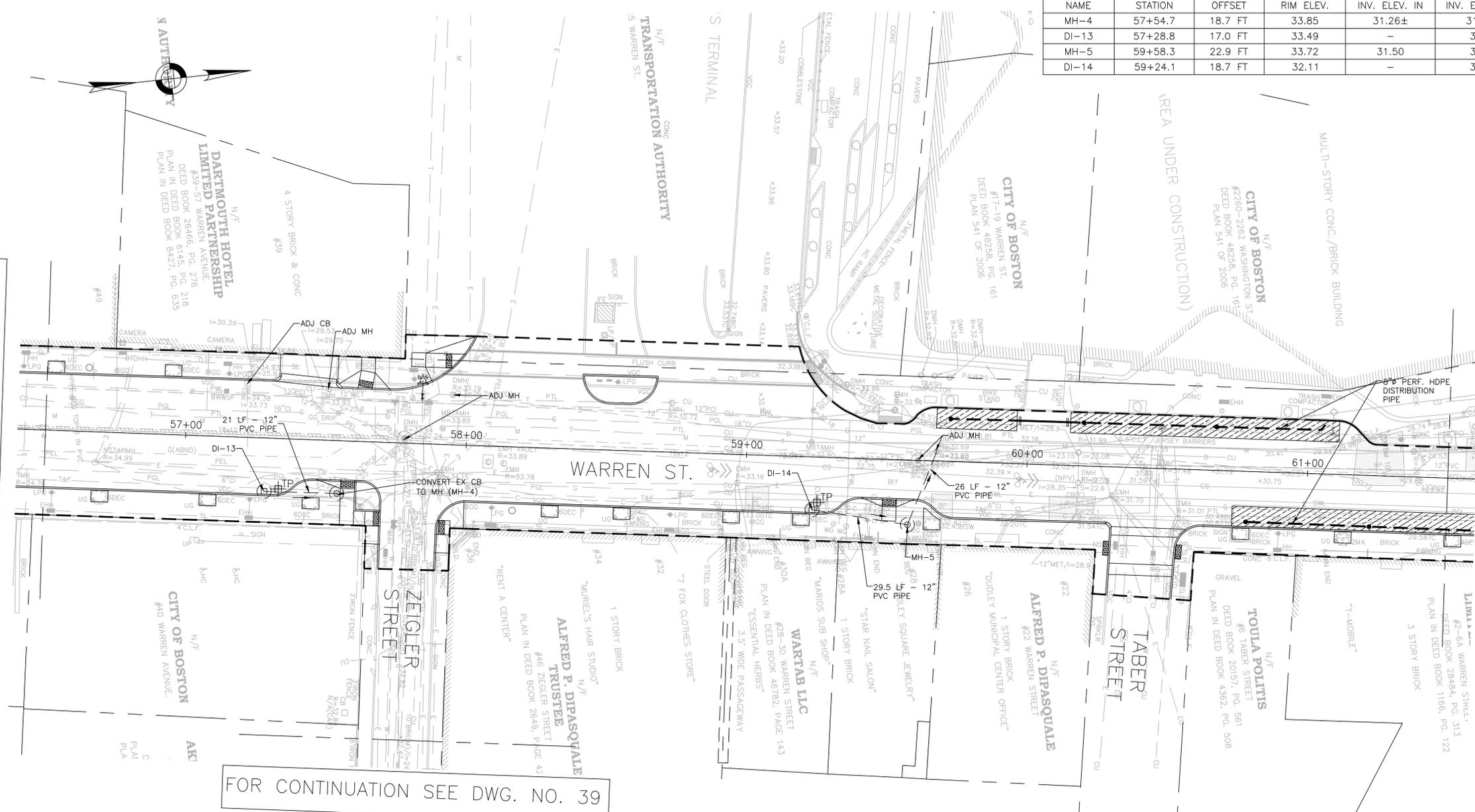
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DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-39

DRAINAGE STRUCTURE TABLE						
NAME	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
MH-4	57+54.7	18.7 FT	33.85	31.26±	31.25±	SUMP MH
DI-13	57+28.8	17.0 FT	33.49	-	31.37	DROP INLET
MH-5	59+58.3	22.9 FT	33.72	31.50	31.50	SUMP MH
DI-14	59+24.1	18.7 FT	32.11	-	31.75	DROP INLET



FOR CONTINUATION SEE DWG. NO. 37

FOR CONTINUATION SEE DWG. NO. 42

FOR CONTINUATION SEE DWG. NO. 39

- LEGEND**
- LIMIT OF STRUCTURAL SOIL
 - POROUS ASPHALT
 - STORMWATER PIPE
 - 8" PERFORATED HDPE DISTRIBUTION STORMWATER PIPE
 - 8" SOLID HDPE STORMWATER PIPE
 - LIMIT OF STORMWATER TRENCH
 - PROPERTY LINE
 - ANTI-SEEP COLLAR
 - CLEANOUT
 - OBSERVATION WELL
 - CATCHBASIN
 - CONTROL DRAINAGE MANHOLE (CMH)
 - DRAINAGE MANHOLE (MH)
 - TEST PIT

- NOTES:**
- DRAINAGE PLANS SHOW WATER, SEWER & DRAIN IMPROVEMENTS CONSTRUCTED UNDER BWSC CONTRACT NO. 11-309-009.
 - FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
 - FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
 - FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS 58 THRU 64.
 - FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
 - ADJUST ALL UTILITY COVERS WITHIN THE PAVING LIMIT, CONTRACTOR TO ADJUST ALL CITY OWNED UTILITIES.
 - CONTRACTOR TO COORDINATE WITH ALL OTHER PRIVATE UTILITIES FOR COVER ADJUSTMENTS.

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO COMMISSION STANDARDS

BOSTON WATER AND SEWER COMMISSION

SURVEY BY BRYANT ASSOCIATES

DRAWN BY S. BERGMAN

CHECKED BY P. FUSCO

APPROVED BY A. SANTORO

CIP XX-XX SHEET 40 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
DRAINAGE & UTILITIES PLANS**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-40



DRAINAGE STRUCTURE TABLE						
NAME	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
DI-4	33+35.9	23.7	29.74	-	23.6	
MH-6	33+29.2	7.8	30.48	23.5	23.4	WITH SUMP
CB-10	35+57.6	19.2	27.58	-	22.7	
CB-11	35+79.6	51.9	26.00	-	22.9	



FOR CONTINUATION
SEE DWG. NO. 36

FOR CONTINUATION SEE DWG. NO. 37

FOR CONTINUATION
SEE DWG. NO. 42

- LEGEND**
- LIMIT OF STRUCTURAL SOIL
 - POROUS ASPHALT
 - STORMWATER PIPE
 - 8" PERFORATED HDPE DISTRIBUTION STORMWATER PIPE
 - 8" SOLID HDPE STORMWATER PIPE
 - LIMIT OF STORMWATER TRENCH
 - PROPERTY LINE
 - ANTI-SEEP COLLAR
 - CLEANOUT
 - OBSERVATION WELL
 - CATCHBASIN
 - CONTROL DRAINAGE MANHOLE (CMH)
 - DRAINAGE MANHOLE (MH)
 - TEST PIT

- NOTES:**
- DRAINAGE PLANS SHOW WATER, SEWER & DRAIN IMPROVEMENTS CONSTRUCTED UNDER BWSC CONTRACT NO. 11-309-009.
 - FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
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 - FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS 58 THRU 64.
 - FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
 - ADJUST ALL UTILITY COVERS WITHIN THE PAVING LIMIT, CONTRACTOR TO ADJUST ALL CITY OWNED UTILITIES, CONTRACTOR TO COORDINATE WITH ALL OTHER PRIVATE UTILITIES FOR COVER ADJUSTMENTS.

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO COMMISSION STANDARDS

BOSTON WATER AND SEWER COMMISSION

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	S. BERGMAN
CHECKED BY	A. CLARKE
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 41 OF 117

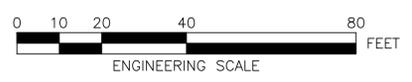
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
DRAINAGE & UTILITIES PLANS**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

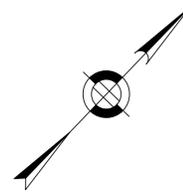
AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER



R-XXXX-41





FOR CONTINUATION
SEE DWG. NO. 41

FOR CONTINUATION
SEE DWG. NO. 40

- LEGEND**
- LIMIT OF STRUCTURAL SOIL
 - POROUS ASPHALT
 - STORMWATER PIPE
 - 8" PERFORATED HDPE DISTRIBUTION STORMWATER PIPE
 - 8" SOLID HDPE STORMWATER PIPE
 - LIMIT OF STORMWATER TRENCH
 - PROPERTY LINE
 - ANTI-SEEP COLLAR
 - CLEANOUT
 - OBSERVATION WELL
 - CATCHBASIN
 - CONTROL DRAINAGE MANHOLE (CMH)
 - DRAINAGE MANHOLE (MH)
 - TEST PIT

- NOTES:**
- DRAINAGE PLANS SHOW WATER, SEWER & DRAIN IMPROVEMENTS CONSTRUCTED UNDER BWSC CONTRACT NO. 11-309-009.
 - FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
 - FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
 - FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS 58 THRU 64.
 - FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
 - ADJUST ALL UTILITY COVERS WITHIN THE PAVING LIMIT, CONTRACTOR TO ADJUST ALL CITY OWNED UTILITIES. CONTRACTOR TO COORDINATE WITH ALL OTHER PRIVATE UTILITIES FOR COVER ADJUSTMENTS.



DRAINAGE STRUCTURE TABLE						
NAME	STATION	OFFSET	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
DI-5	61+69.2	18.7 FT	28.10	-	23.7	DROP INLET
MH-7	62+07.0	22.3 FT	27.35	23.5	23.4±	
DI-6	62+11.6	37.9 FT	27.00	-	23.6	DROP INLET
DI-7	38+88.1	46.0 FT	26.78	-	24.60	DROP INLET
MH-8	39+04.6	23.3 FT	26.60	23.54 (DI-6) 23.5 (DI-5)	19.60	SUMP MH
DI-8	38+97.0	16.4 FT	26.33	-	21.33	DROP INLET
DI-9	39+45.8	19.2 FT	26.83	-	21.83	DROP INLET
MH-9	39+41.2	3.4 FT	27.23	17.34± 21.35	17.34±	SUMP MH
DI-10	39+46.0	18.9 FT	25.75	-	21.40	DROP INLET
MH-10	37+88.0	5.1 FT	26.80	20.96 19.24±	19.24±	SUMP MH
DI-11	37+71.3	20.3 FT	26.04	-	21.04	DROP INLET

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO COMMISSION STANDARDS

BOSTON WATER AND SEWER COMMISSION

SURVEY BY BRYANT ASSOCIATES
 DRAWN BY S. BERGMAN
 CHECKED BY F. FUSCO
 APPROVED BY A. SANTORO

CIP XX-XX SHEET 42 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION

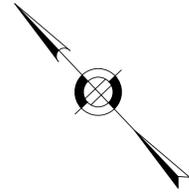
**DUDLEY SQUARE PHASE 2
 DRAINAGE & UTILITIES PLANS**
 ROXBURY

SCALE: 1" = 20'
 DISTRICT: 10

AREA: 1
 DATE: FEB. 7, 2019

CITY ENGINEER

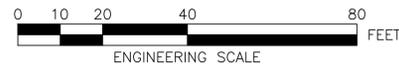
R-XXXX-42



NOTES:

1. FOR KEY PLAN, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 & 4.
2. FOR GENERAL NOTES, SEE SHEET 3.
3. FOR TYPICAL SECTIONS, SEE SHEETS 5 & 7.
4. FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
5. FOR DRAINAGE PLANS, SEE SHEETS 36 THRU 42.

R-XXXX-43



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY J. WEISS

CHECKED BY S. BERGMAN

APPROVED BY A. SANTORO

CIP XX-XX SHEET 43 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
GRADING PLANS
ROXBURY

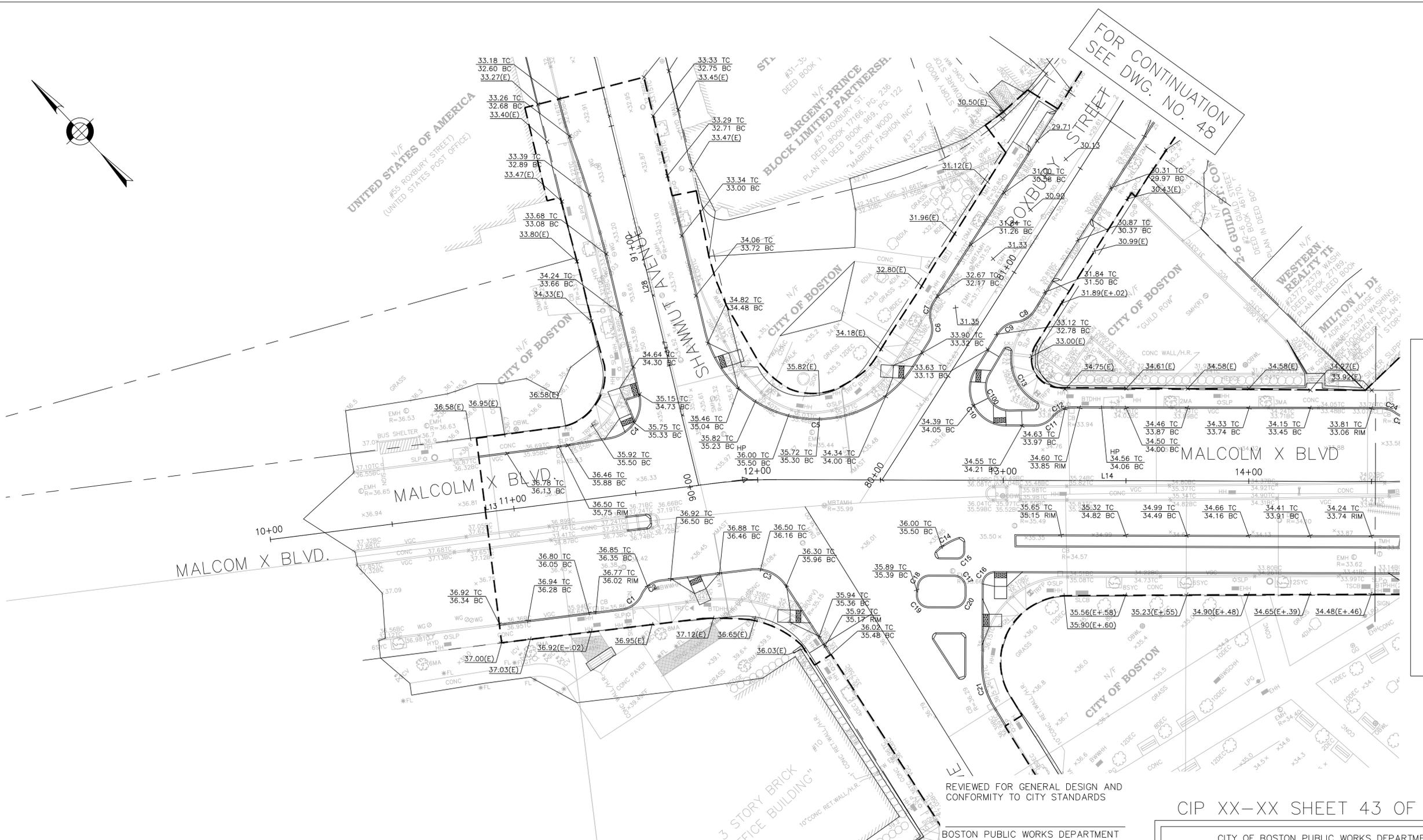
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DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

FOR CONTINUATION SEE DWG. NO. 44

FOR CONTINUATION
SEE DWG. NO. 48



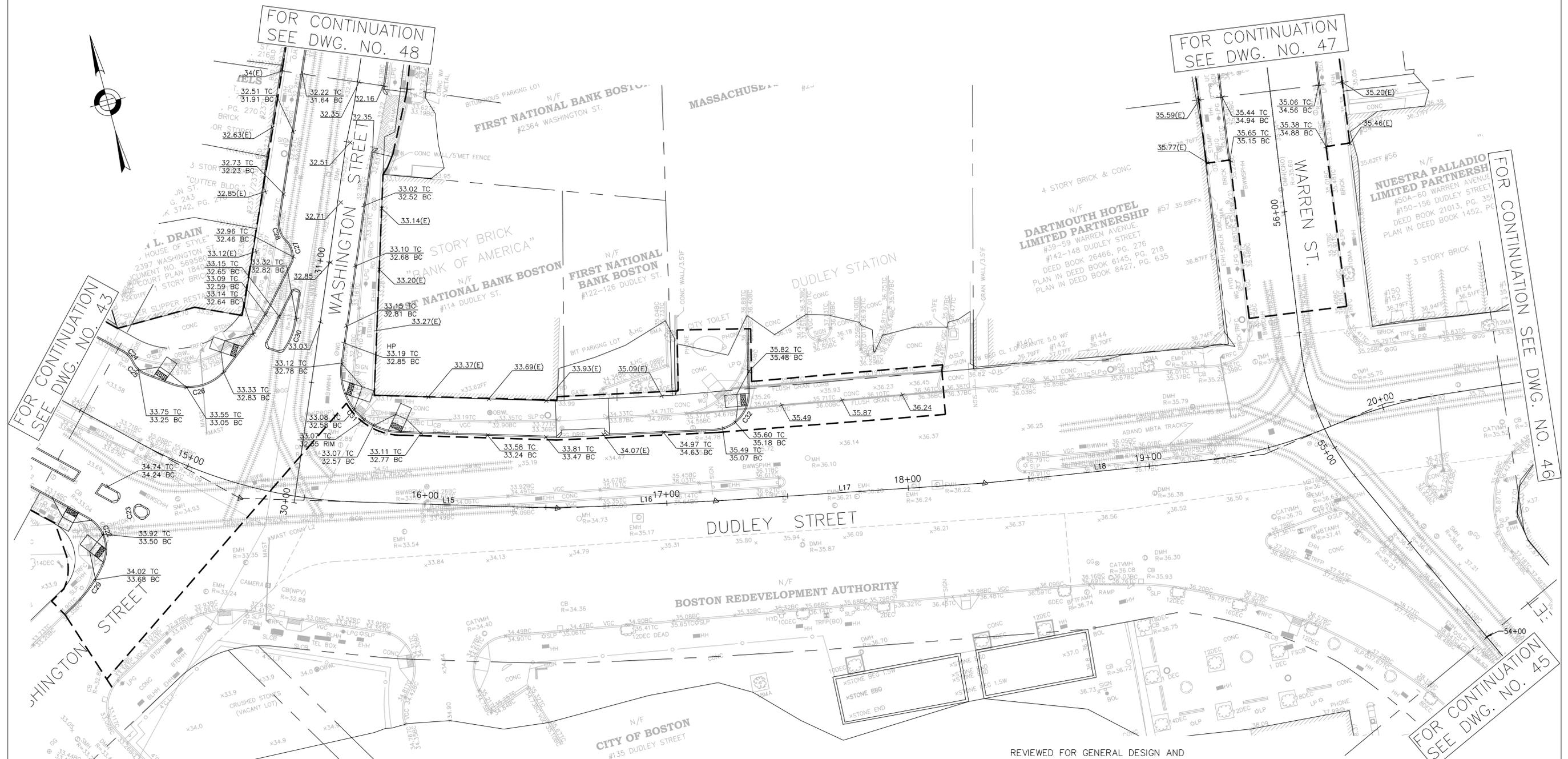


FOR CONTINUATION
SEE DWG. NO. 48

FOR CONTINUATION
SEE DWG. NO. 47

FOR CONTINUATION
SEE DWG. NO. 46

FOR CONTINUATION
SEE DWG. NO. 45



NOTES:

1. FOR KEY PLAN, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 & 4.
2. FOR GENERAL NOTES, SEE SHEET 3.
3. FOR TYPICAL SECTIONS, SEE SHEETS 5 & 7.
4. FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
5. FOR DRAINAGE PLANS, SEE SHEETS 36 THRU 42.



REVIEWED FOR GENERAL DESIGN AND
CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	J. WEISS
CHECKED BY	S. BERGMAN
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 44 OF 117

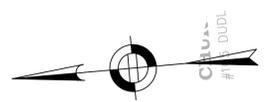
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
GRADING PLANS
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-44

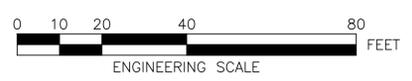


FOR CONTINUATION
SEE DWG. NO. 46

FOR CONTINUATION
SEE DWG. NO. 44

NOTES:

1. FOR KEY PLAN, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 & 4.
2. FOR GENERAL NOTES, SEE SHEET 3.
3. FOR TYPICAL SECTIONS, SEE SHEETS 5 & 7.
4. FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
5. FOR DRAINAGE PLANS, SEE SHEETS 36 THRU 42.



REVIEWED FOR GENERAL DESIGN AND
CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	J. WEISS
CHECKED BY	S. BERGMAN
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 45 OF 117

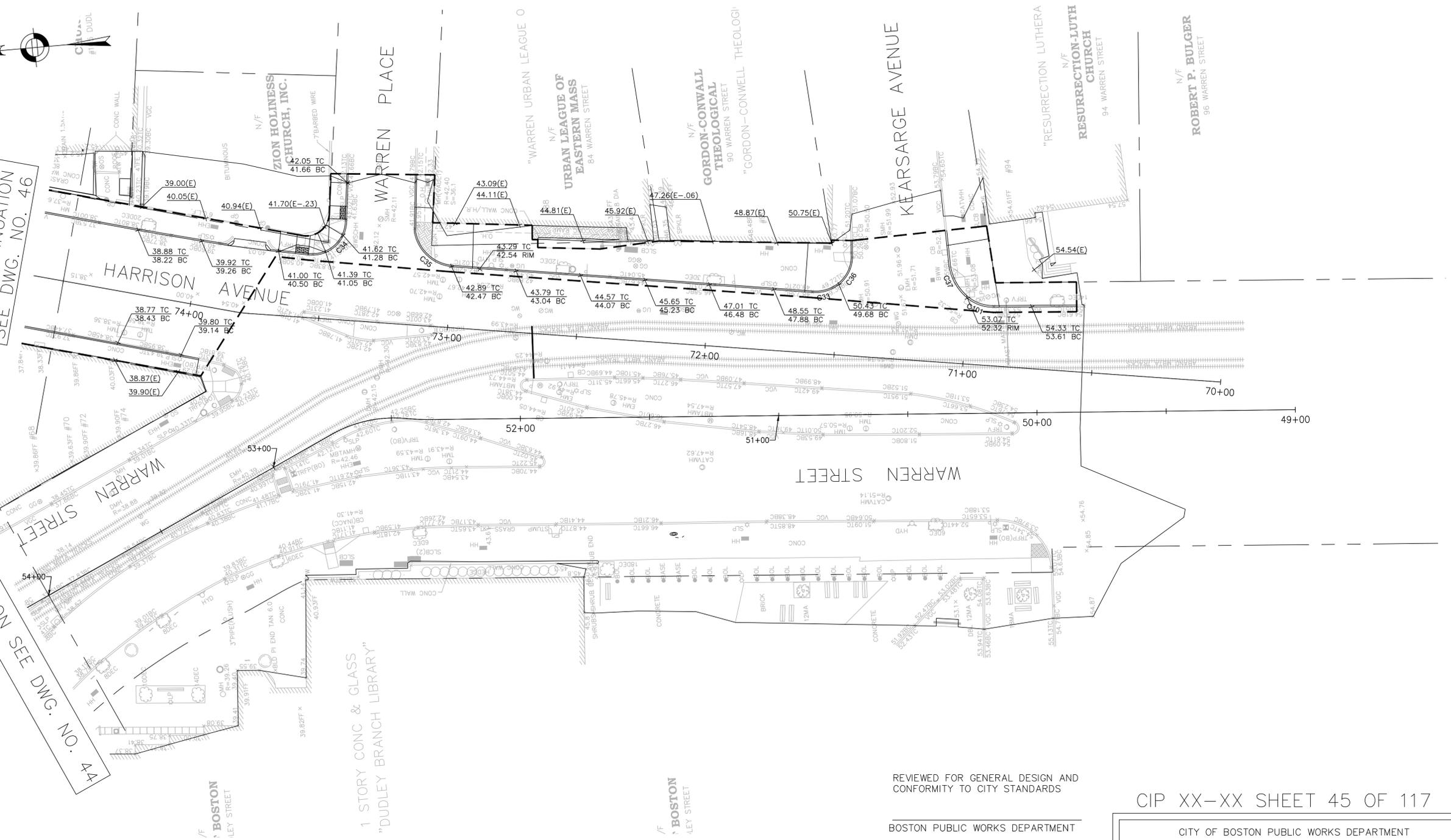
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
GRADING PLANS
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

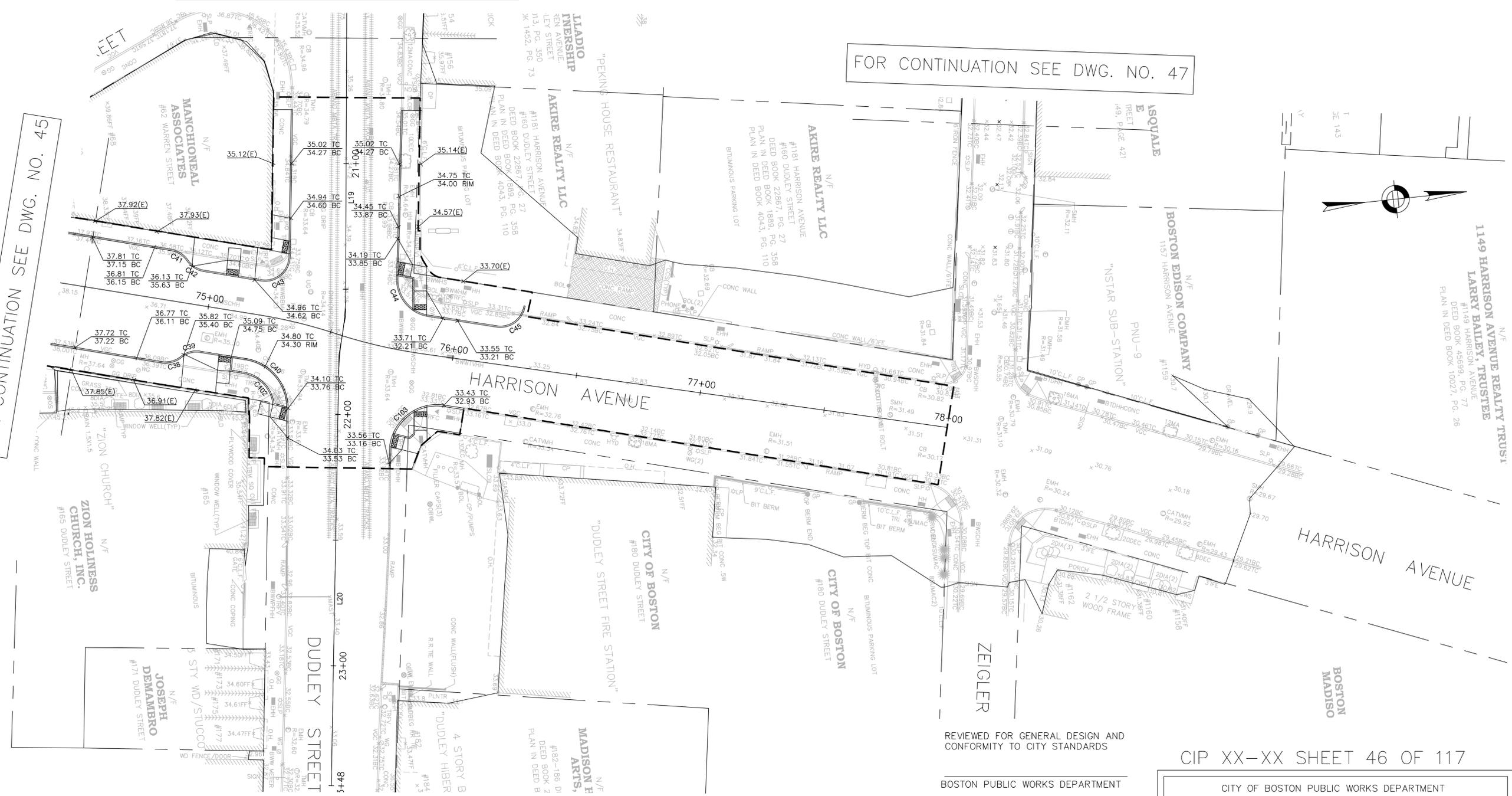
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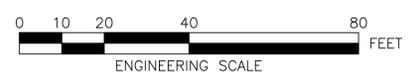
FOR CONTINUATION SEE DWG. NO. 44

FOR CONTINUATION SEE DWG. NO. 47

FOR CONTINUATION SEE DWG. NO. 45



- NOTES:**
1. FOR KEY PLAN, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 & 4.
 2. FOR GENERAL NOTES, SEE SHEET 3.
 3. FOR TYPICAL SECTIONS, SEE SHEETS 5 & 7.
 4. FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
 5. FOR DRAINAGE PLANS, SEE SHEETS 36 THRU 42.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	J. WEISS
CHECKED BY	S. BERGMAN
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 46 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

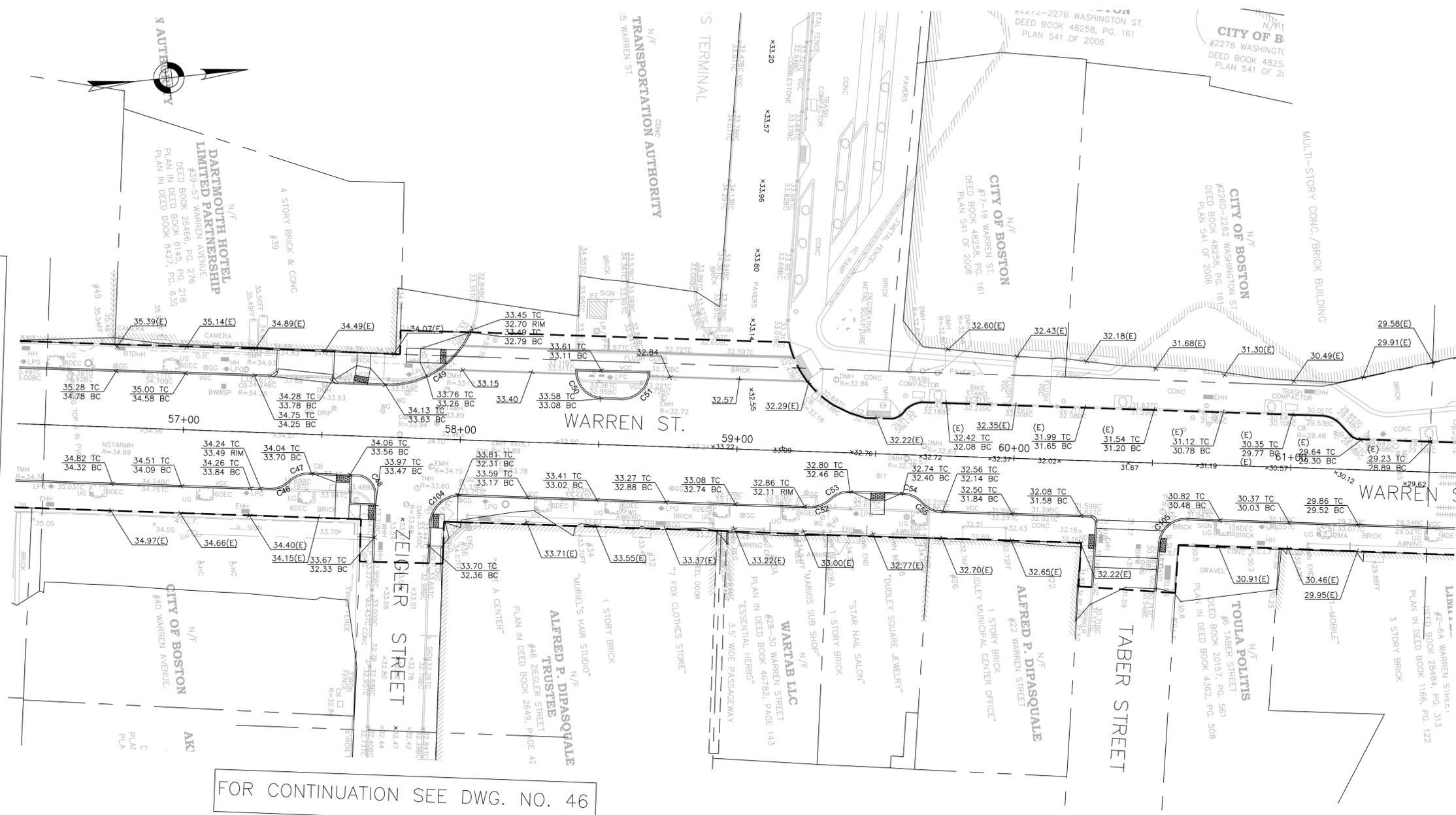
**DUDLEY SQUARE PHASE 2
GRADING PLANS**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-46



FOR CONTINUATION SEE DWG. NO. 44

FOR CONTINUATION SEE DWG. NO. 49

FOR CONTINUATION SEE DWG. NO. 46

NOTES:

1. FOR KEY PLAN, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 & 4.
2. FOR GENERAL NOTES, SEE SHEET 3.
3. FOR TYPICAL SECTIONS, SEE SHEETS 5 & 7.
4. FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
5. FOR DRAINAGE PLANS, SEE SHEETS 36 THRU 42.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	J. WEISS
CHECKED BY	S. BERGMAN
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 47 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
GRADING PLANS**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

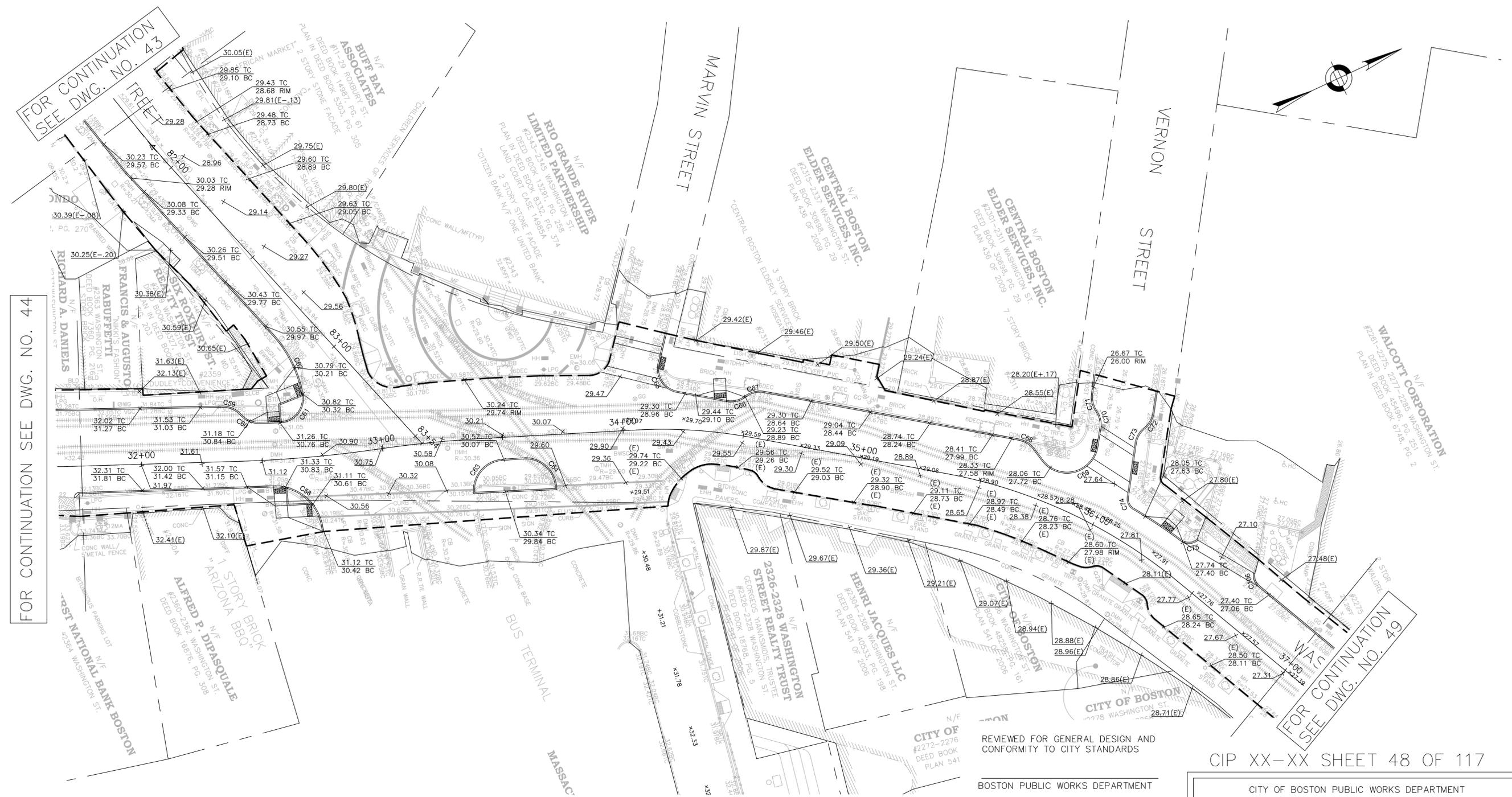
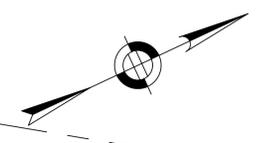
AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

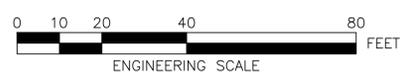
R-XXXX-47

FOR CONTINUATION
SEE DWG. NO. 43

FOR CONTINUATION SEE DWG. NO. 44



- NOTES:**
- FOR KEY PLAN, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 & 4.
 - FOR GENERAL NOTES, SEE SHEET 3.
 - FOR TYPICAL SECTIONS, SEE SHEETS 5 & 7.
 - FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
 - FOR DRAINAGE PLANS, SEE SHEETS 36 THRU 42.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

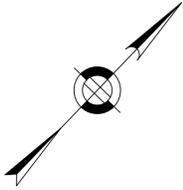
SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	J. WEISS
CHECKED BY	S. BERGMAN
APPROVED BY	A. SANTORO

CIP XX-XX SHEET 48 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
GRADING PLANS
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10
AREA: 1
DATE: FEB. 7, 2019
CITY ENGINEER

R-XXXX-48



FOR CONTINUATION
SEE DWG. NO. 48

FOR CONTINUATION
SEE DWG. NO. 47



NOTES:

1. FOR KEY PLAN, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 & 4.
2. FOR GENERAL NOTES, SEE SHEET 3.
3. FOR TYPICAL SECTIONS, SEE SHEETS 5 & 7.
4. FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
5. FOR DRAINAGE PLANS, SEE SHEETS 36 THRU 42.

R-XXXX-49



REVIEWED FOR GENERAL DESIGN AND
CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY J. WEISS

CHECKED BY S. BERGMAN

APPROVED BY A. SANTORO

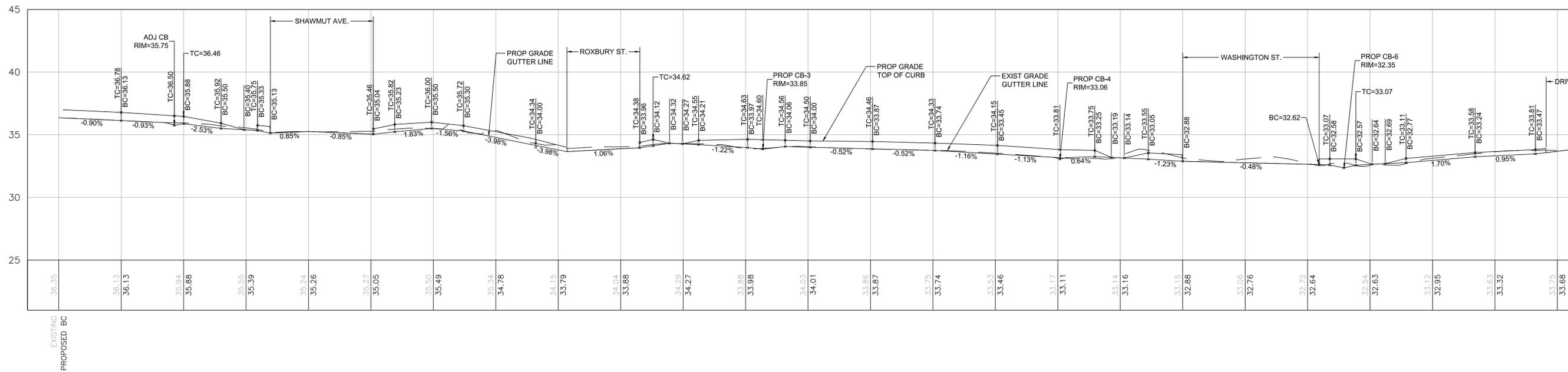
CIP XX-XX SHEET 49 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
**DUDLEY SQUARE PHASE 2
GRADING PLANS**
ROXBURY

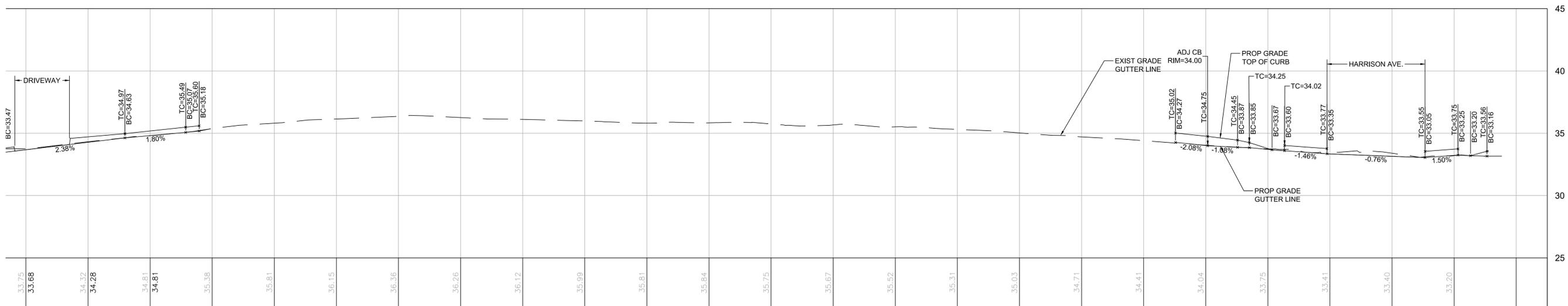
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DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER



DUDLEY STREET LEFT CURB PROFILE



DUDLEY STREET LEFT CURB PROFILE

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

CIP XX-XX SHEET 50 OF 117

BOSTON PUBLIC WORKS DEPARTMENT

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CHECKED BY S. BERGMAN

APPROVED BY A. SANTORO

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

DUDLEY SQUARE PHASE 2
DUDLEY STREET LEFT CURB PROFILES
ROXBURY

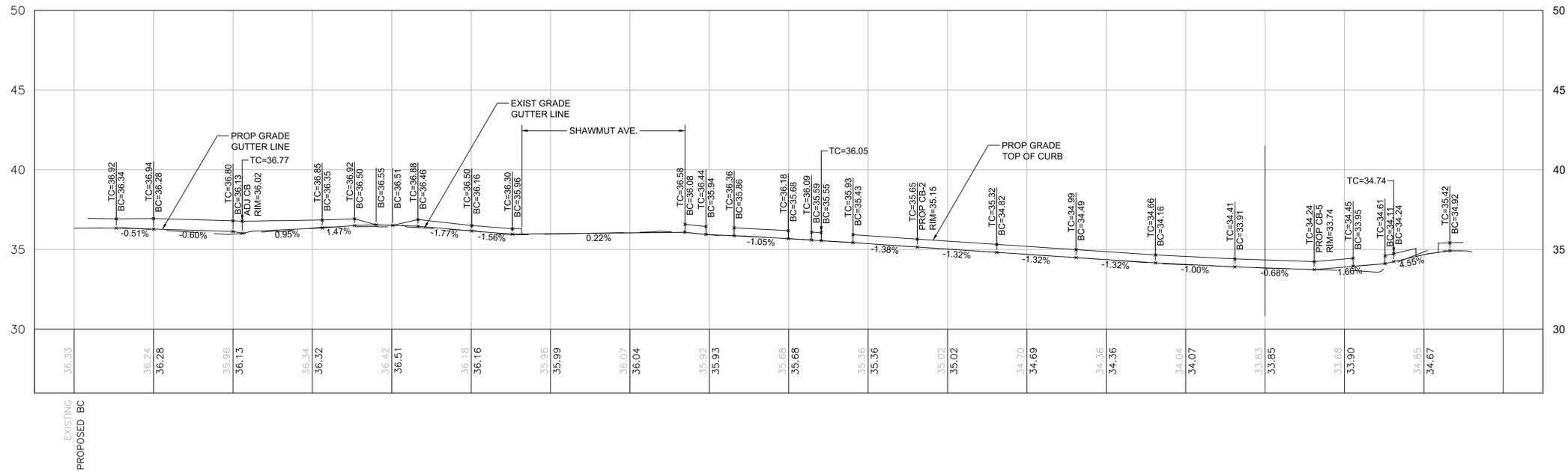
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AREA: 1
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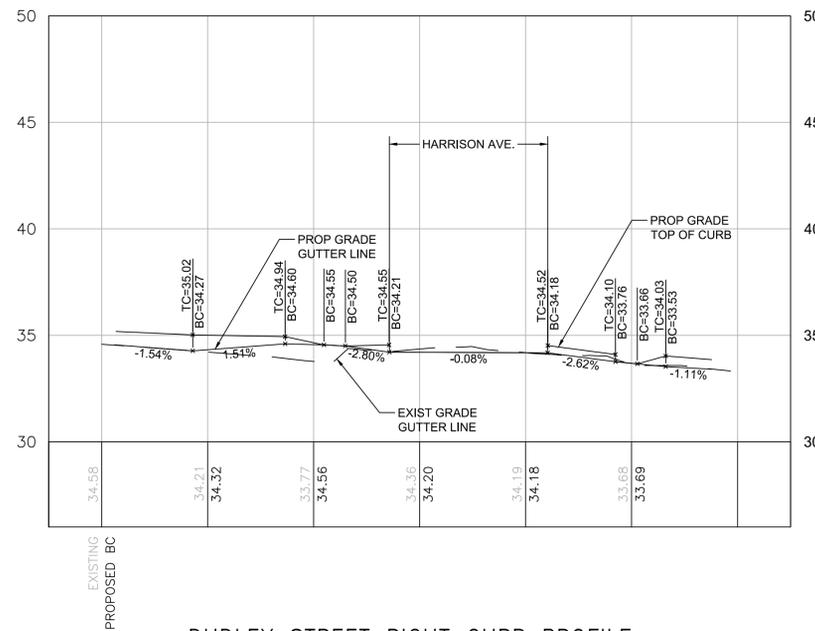
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R-XXXX-50



DUDLEY STREET RIGHT CURB PROFILE



DUDLEY STREET RIGHT CURB PROFILE

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY J. WEISS

CHECKED BY S. BERGMAN

APPROVED BY A. SANTORO

CIP XX-XX SHEET 51 OF 117

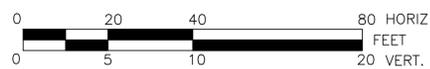
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

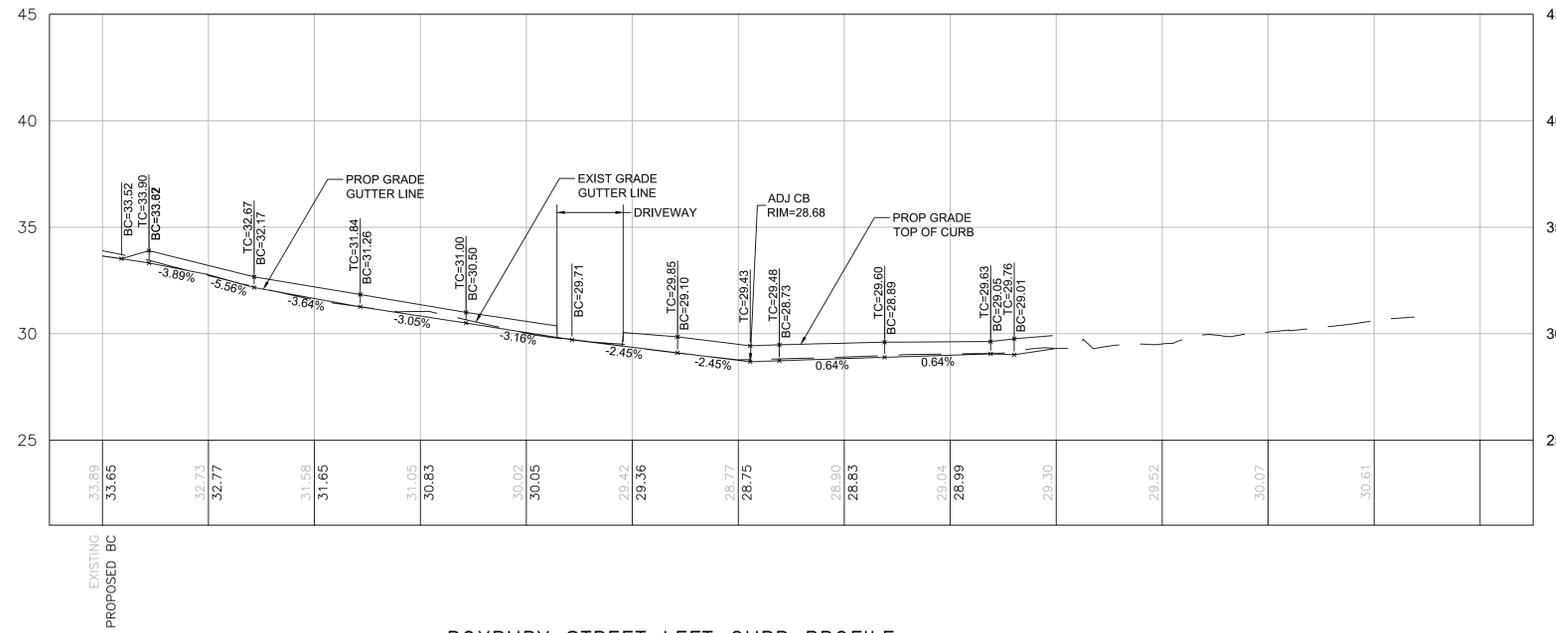
DUDLEY SQUARE PHASE 2
DUDLEY STREET RIGHT CURB PROFILES
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

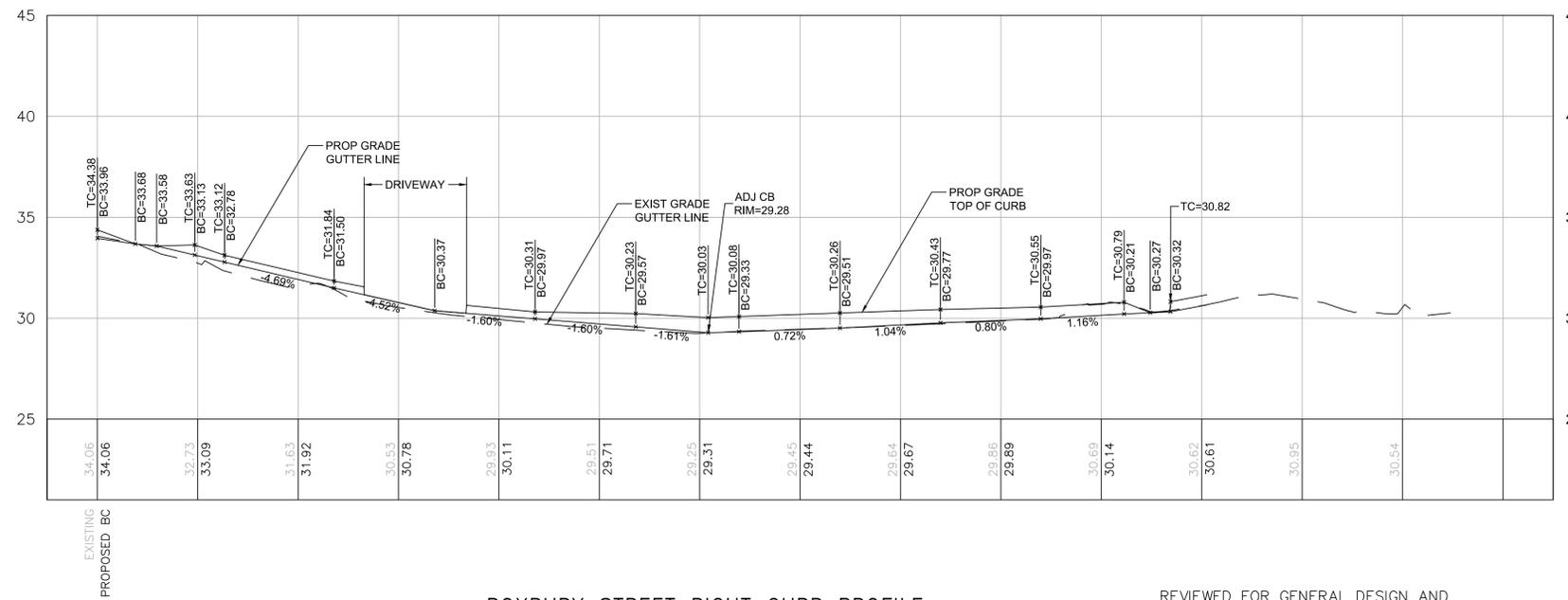
AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER





ROXBURY STREET LEFT CURB PROFILE



ROXBURY STREET RIGHT CURB PROFILE

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

CIP XX-XX SHEET 52 OF 117

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY J. WEISS

CHECKED BY S. BERGMAN

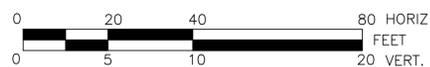
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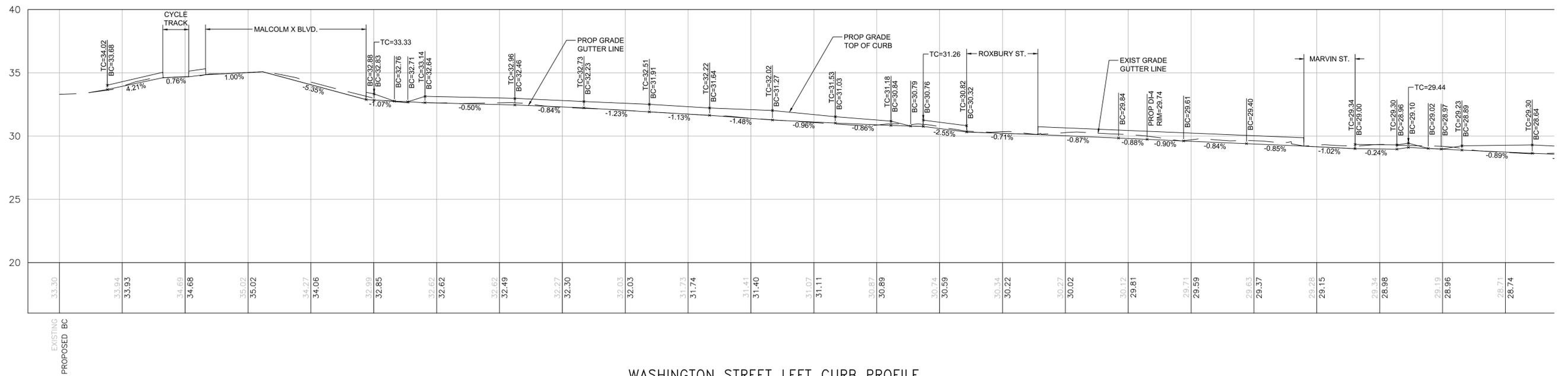
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
ROXBURY STREET CURB PROFILES
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

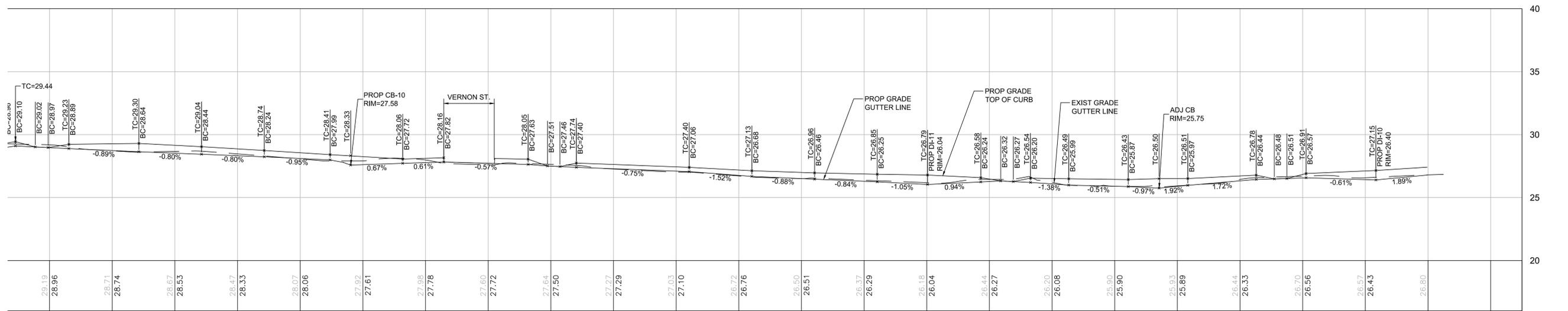
AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER





WASHINGTON STREET LEFT CURB PROFILE



WASHINGTON STREET LEFT CURB PROFILE

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

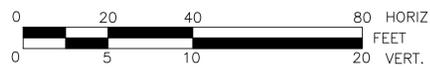
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SURVEY BY BRYANT ASSOCIATES

DRAWN BY J. WEISS

CHECKED BY S. BERGMAN

APPROVED BY A. SANTORO



CIP XX-XX SHEET 53 OF 117

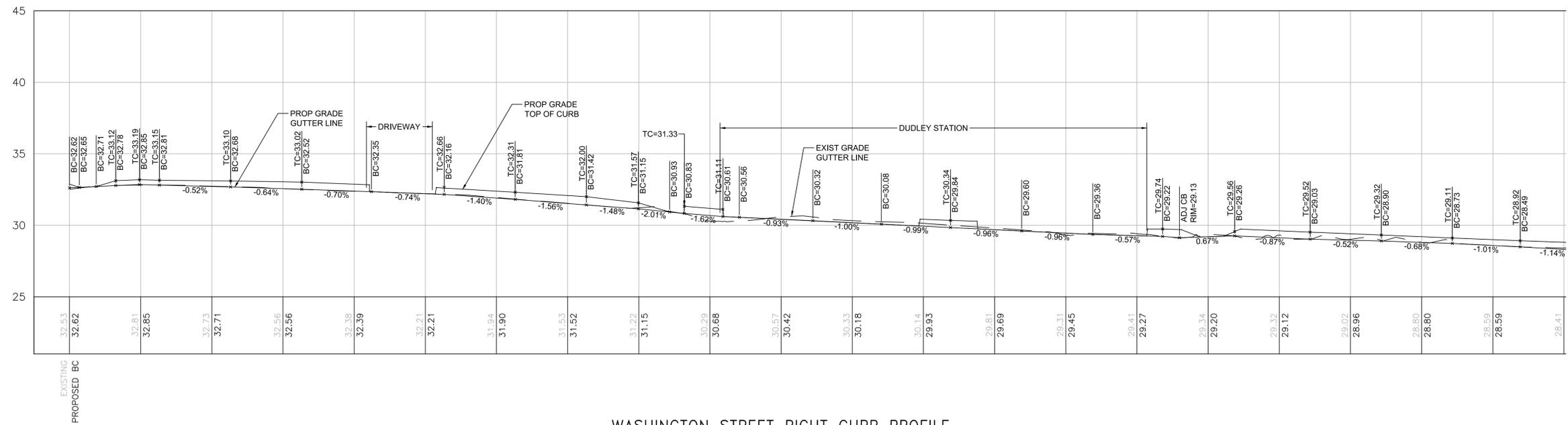
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION

DUDLEY SQUARE PHASE 2
WASHINGTON STREET LEFT CURB PROFILES
 ROXBURY

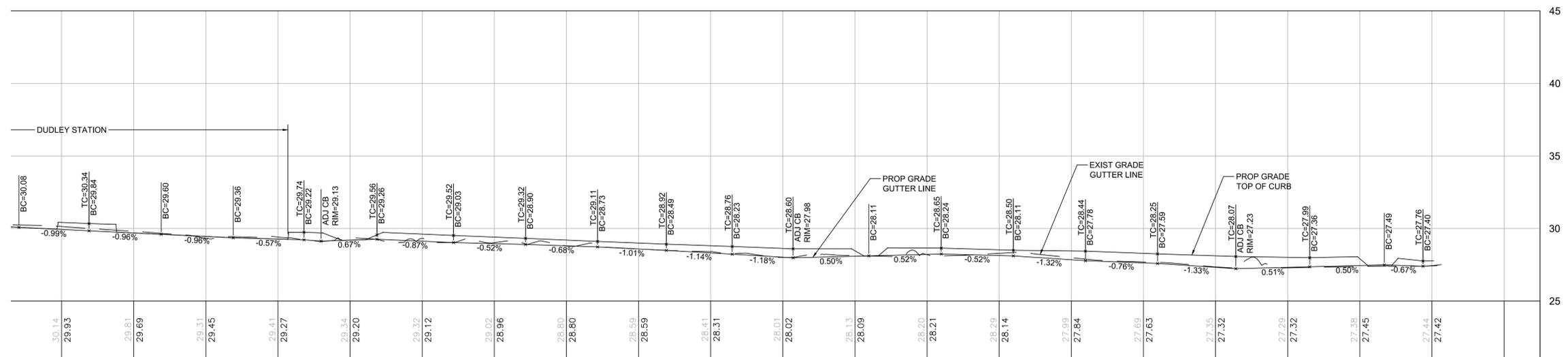
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 DISTRICT: 10

AREA: 1
 DATE: FEB. 7, 2019

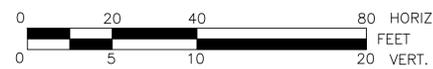
CITY ENGINEER



WASHINGTON STREET RIGHT CURB PROFILE



WASHINGTON STREET RIGHT CURB PROFILE



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY J. WEISS

CHECKED BY S. BERGMAN

APPROVED BY A. SANTORO

CIP XX-XX SHEET 54 OF 117

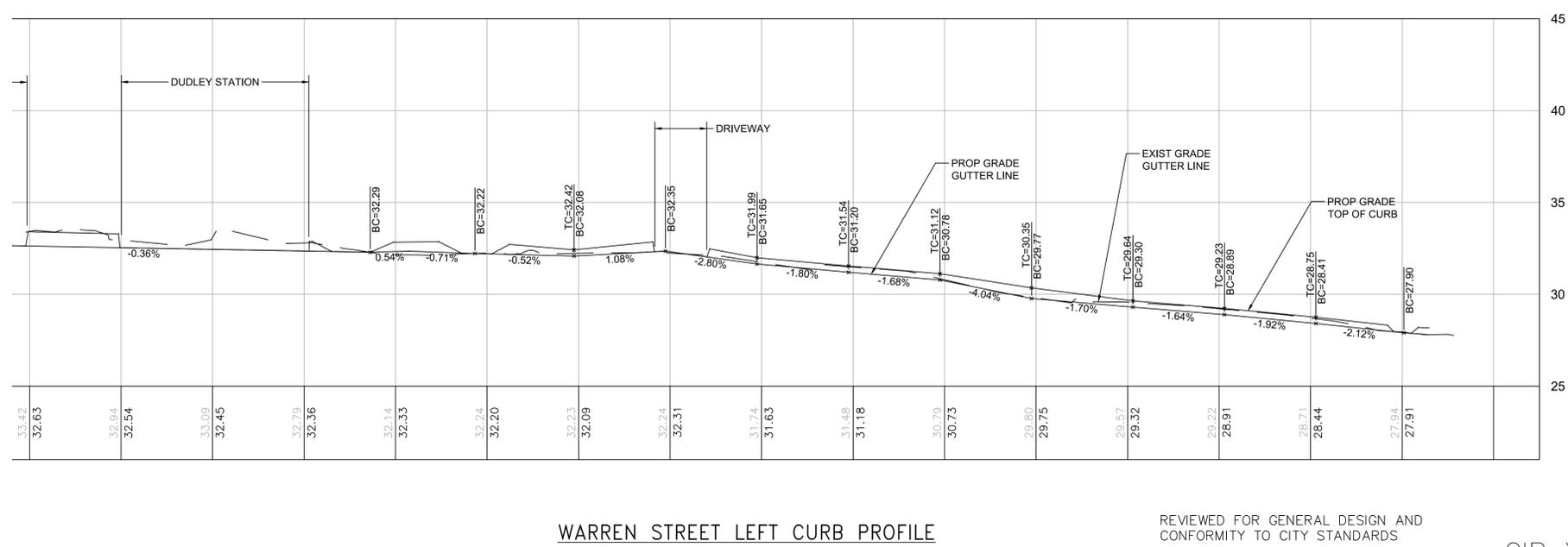
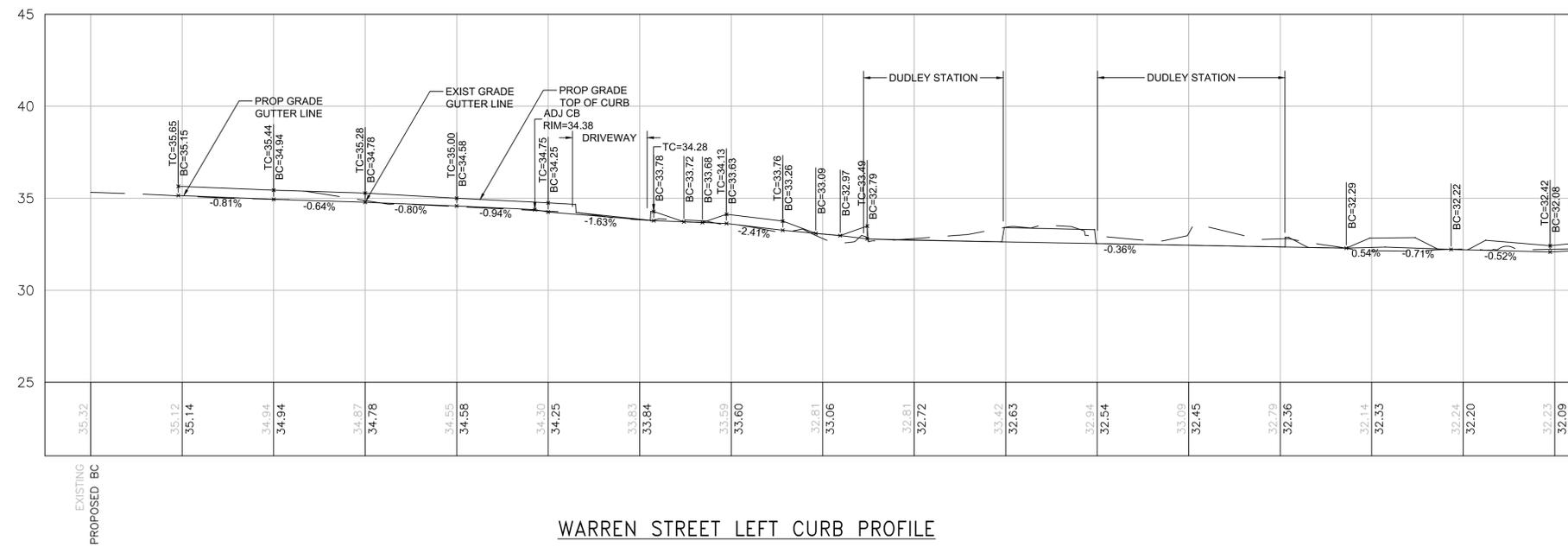
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION

DUDLEY SQUARE PHASE 2
WASHINGTON STREET RIGHT CURB PROFILES
 ROXBURY

SCALE: 1" = 20'
 DISTRICT: 10

AREA: 1
 DATE: FEB. 7, 2019

CITY ENGINEER



WARREN STREET LEFT CURB PROFILE

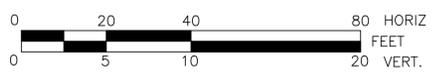
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CIP XX-XX SHEET 55 OF 117

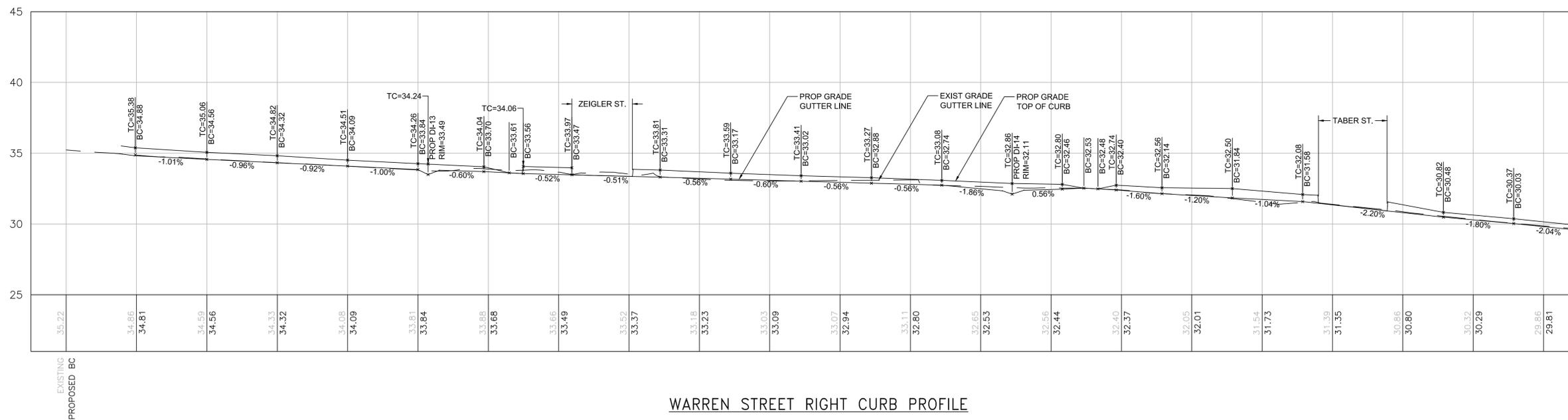
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 APPROVED BY A. SANTORO

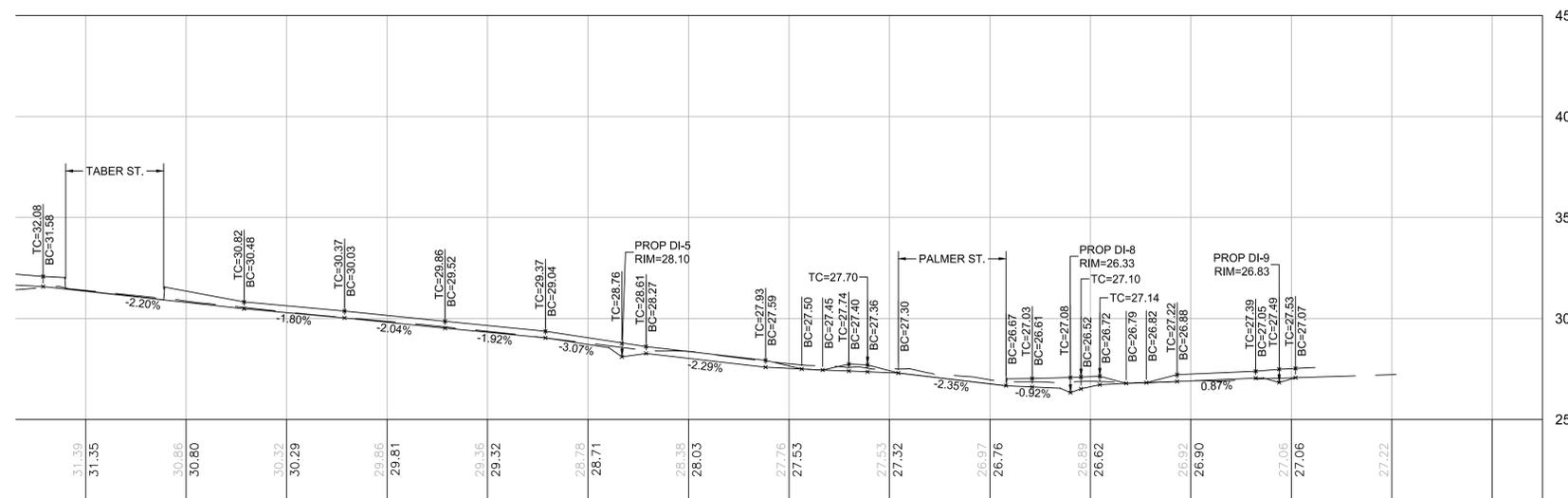
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
WARREN STREET LEFT CURB PROFILES
 ROXBURY
 SCALE: 1" = 20'
 DISTRICT: 10
 AREA: 1
 DATE: FEB. 7, 2019
 CITY ENGINEER



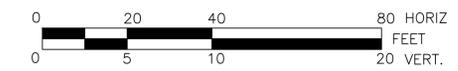
R-XXXX-55



WARREN STREET RIGHT CURB PROFILE



WARREN STREET RIGHT CURB PROFILE



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES
 DRAWN BY J. WEISS
 CHECKED BY S. BERGMAN
 APPROVED BY A. SANTORO

CIP XX-XX SHEET 56 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION

DUDLEY SQUARE PHASE 2
WARREN STREET RIGHT CURB PROFILES
 ROXBURY

SCALE: 1" = 20'
 DISTRICT: 10

AREA: 1
 DATE: FEB. 7, 2019

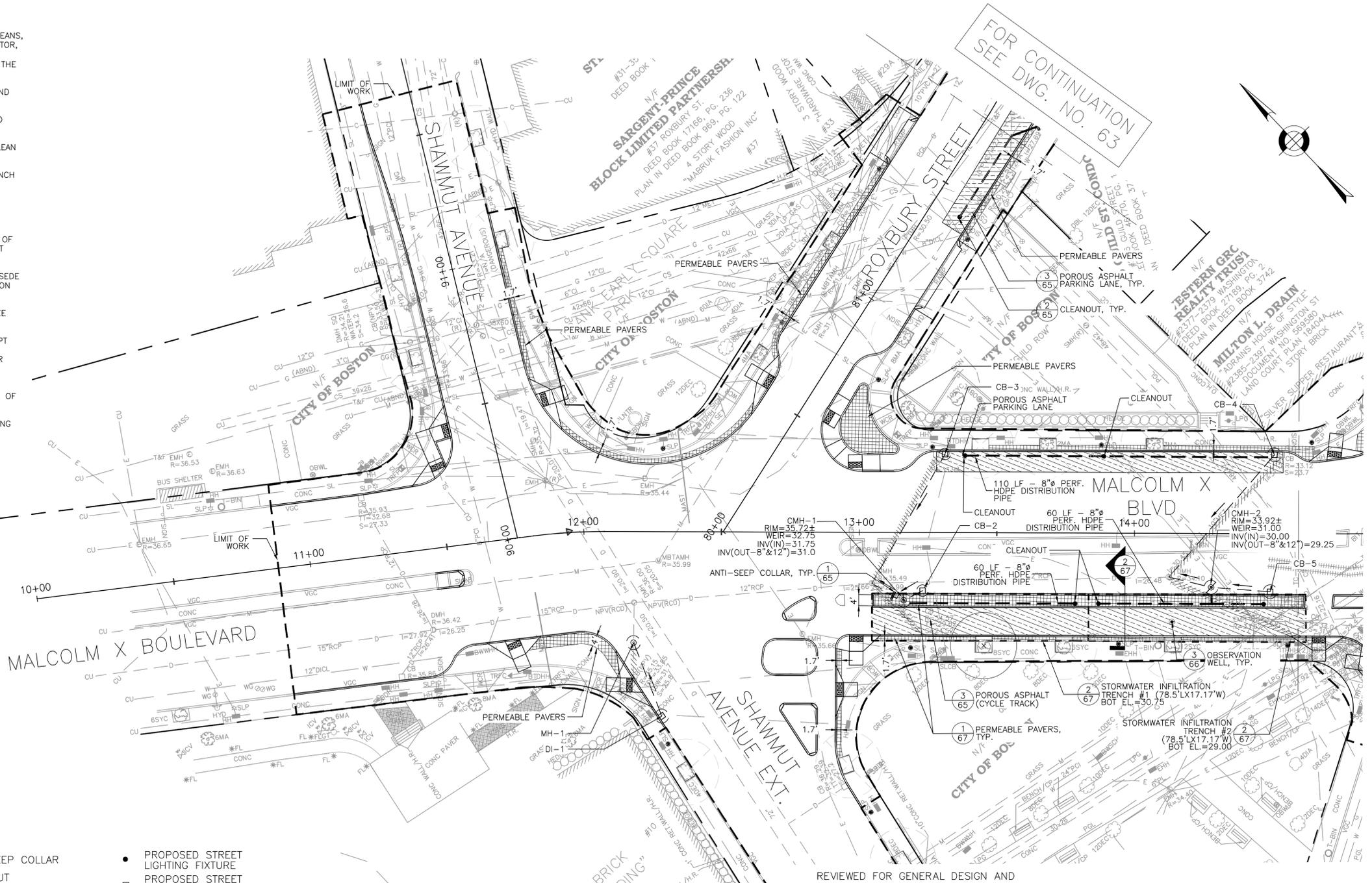
CITY ENGINEER



R-XXXX-56

GENERAL NOTES:

1. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION, MEANS, METHODS, TECHNIQUES OR PROCEDURES UTILIZED BY THE CONTRACTOR, NOR FOR THE SAFETY OF THE PUBLIC OR THE CONTRACTOR'S EMPLOYEES, OR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL STAKE OUT LOCATIONS OF NEW STRUCTURES AND GAIN APPROVAL FROM THE ENGINEER PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE PRIOR TO CONSTRUCTION.
4. AGGREGATE FOR STORMWATER INFILTRATION TRENCHES SHALL BE CLEAN AND DOUBLE-WASHED PRIOR TO PLACEMENT.
5. MAINTAIN LOOSE AND UNCOMPACTED STORMWATER INFILTRATION TRENCH SUBGRADE, SCARIFY TOP 3 INCHES. DO NOT ALLOW CONSTRUCTION EQUIPMENT ON TRENCH BOTTOM SURFACE.
6. PROTECT STORMWATER INFILTRATION TRENCH SUBGRADE FROM SEDIMENTATION DURING CONSTRUCTION.
7. IF EXISTING UTILITIES ARE ENCOUNTERED WITHIN EXCAVATION LIMITS OF STORMWATER INFILTRATION TRENCHES, CONTRACTOR SHALL CONTACT ENGINEER.
8. DETAIL DRAWINGS INCLUDED WITHIN THESE CONTRACT PLANS SUPERSEDE SIMILAR CITY OF BOSTON OR BOSTON WATER AND SEWER COMMISSION STANDARD DETAILS.
9. FOR REFERENCED DETAILS NOT INCLUDED IN THIS DRAWING SET, SEE STANDARD BOSTON WATER AND SEWER COMMISSION DETAILS.
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13. INSTALL IMPERMEABLE LINER BETWEEN STORMWATER TRENCH AND STANDARD PAVING/BASE.



FOR CONTINUATION
SEE DWG. NO. 63

FOR CONTINUATION SEE DWG. NO. 59

LEGEND

- | | | | | | |
|-----|---|---|--------------------------------|---|-----------------------------------|
| --- | PROPERTY LINE | ✕ | ANTI-SEEP COLLAR | ● | PROPOSED STREET LIGHTING FIXTURE |
| ▨ | POROUS ASPHALT | ● | CLEANOUT | □ | PROPOSED STREET LIGHTING PULL BOX |
| ▩ | PERMEABLE PAVERS | ⊙ | OBSERVATION WELL | ☆ | EXISTING POLE/STREET LIGHT |
| --- | STORMWATER PIPE | ⊕ | CATCHBASIN | ■ | EXISTING STREET LIGHTING PULL BOX |
| --- | 8" PERFORATED HDPE DISTRIBUTION STORMWATER PIPE | ⊕ | CONTROL DRAINAGE MANHOLE (CMH) | ■ | PROPOSED LIGHTING CONTROL CABINET |
| --- | 8" SOLID HDPE STORMWATER PIPE | ⊕ | DRAINAGE MANHOLE (MH) | ■ | EXISTING LIGHTING CONTROL CABINET |
| --- | LIMIT OF STORMWATER TRENCH | | | | |

- NOTES:**
1. FOR KEY PLAN, GENERAL NOTES, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
 2. FOR TYPICAL SECTIONS, SEE SHEETS 5 THRU 7.
 3. FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
 4. FOR DRAINAGE AND UTILITIES PLANS, SEE SHEETS 36 THRU 42.
 5. FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
 6. FOR LANDSCAPE PLANS, SEE SHEETS 85 THRU 92.
 7. FOR STREET LIGHTING PLANS, SEE SHEETS 93 THRU 99.



HATCH WSP
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tel. 978-740-0096 www.hatch.com

DRAWING PREPARED BY HATCH

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO COMMISSION STANDARDS

BOSTON WATER AND SEWER COMMISSION

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	A.KEEL
CHECKED BY	H.HOLMES
APPROVED BY	E.ADAMOWICZ

CIP XX-XX SHEET 58 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
GREEN INFRASTRUCTURE PLAN**
ROXBURY

SCALE: 1" = 20'-0"
DISTRICT: 10

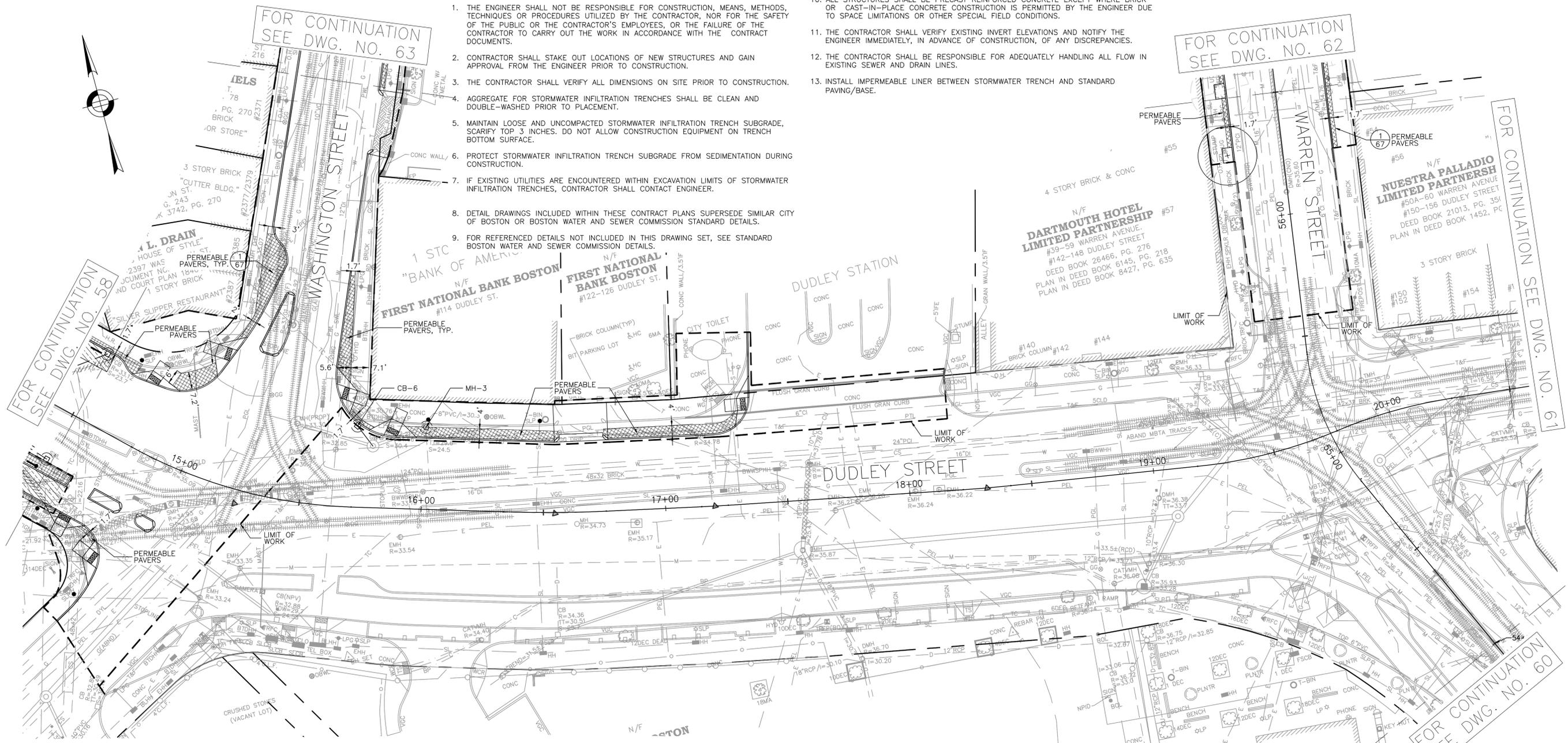
AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER



GENERAL NOTES:

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LEGEND

- PROPERTY LINE
- ▨ POROUS ASPHALT
- ▩ PERMEABLE PAVERS
- STORMWATER PIPE
- 8" PERFORATED HDPE DISTRIBUTION STORMWATER PIPE
- CLEANOUT
- ⊕ CATCHBASIN
- ⊙ DRAINAGE MANHOLE (MH)
- PROPOSED STREET LIGHTING FIXTURE
- PROPOSED STREET LIGHTING PULL BOX
- ☆ EXISTING POLE/STREET LIGHT
- EXISTING STREET LIGHTING PULL BOX
- PROPOSED LIGHTING CONTROL CABINET
- EXISTING LIGHTING CONTROL CABINET

- NOTES:**
1. FOR KEY PLAN, GENERAL NOTES, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
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 3. FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
 4. FOR DRAINAGE AND UTILITIES PLANS, SEE SHEETS 36 THRU 42.
 5. FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
 6. FOR LANDSCAPE PLANS, SEE SHEETS 85 THRU 92.
 7. FOR STREET LIGHTING PLANS, SEE SHEETS 93 THRU 99.

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO COMMISSION STANDARDS

BOSTON WATER AND SEWER COMMISSION

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	A.KEEL
CHECKED BY	H.HOLMES
APPROVED BY	E.ADAMOWICZ

CIP XX-XX SHEET 59 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
GREEN INFRASTRUCTURE PLAN**
ROXBURY

SCALE: 1" = 20'-0"
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER



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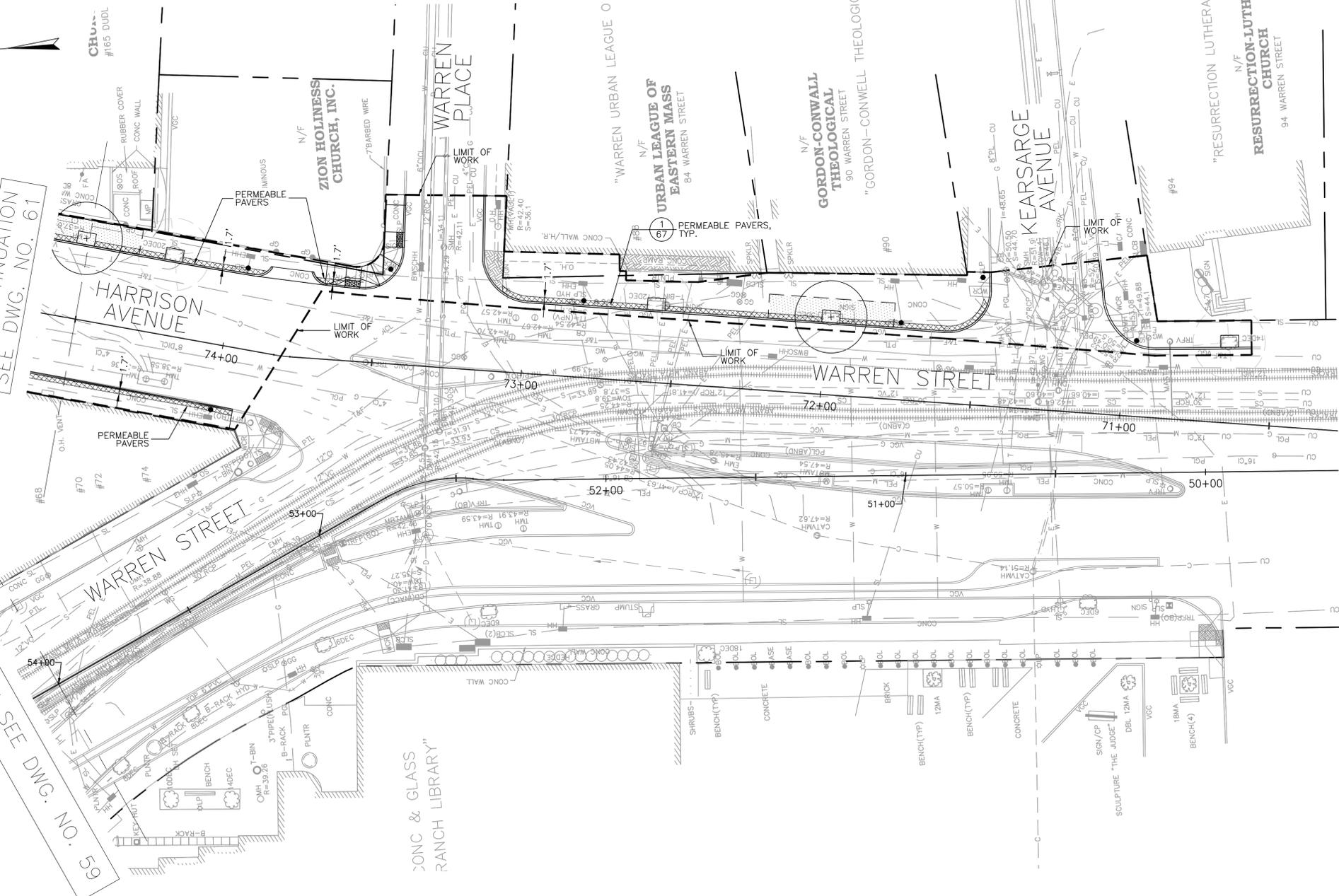
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FOR CONTINUATION SEE DWG. NO. 61

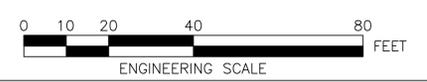
FOR CONTINUATION SEE DWG. NO. 59



- GENERAL NOTES:**
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 13. INSTALL IMPERMEABLE LINER BETWEEN STORMWATER TRENCH AND STANDARD PAVING/BASE.

- LEGEND**
- PROPERTY LINE
 - [Cross-hatched box] PERMEABLE PAVERS
 - [Dotted box] STRUCTURAL SOIL

- NOTES:**
1. FOR KEY PLAN, GENERAL NOTES, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
 2. FOR TYPICAL SECTIONS, SEE SHEETS 5 THRU 7.
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REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO COMMISSION STANDARDS

BOSTON WATER AND SEWER COMMISSION

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	A.KEEL
CHECKED BY	H.HOLMES
APPROVED BY	E.ADAMOWICZ

CIP XX-XX SHEET 60 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
GREEN INFRASTRUCTURE PLAN**
ROXBURY

SCALE: 1" = 20'-0" AREA: 1
DISTRICT: 10 DATE: FEB. 7, 2019

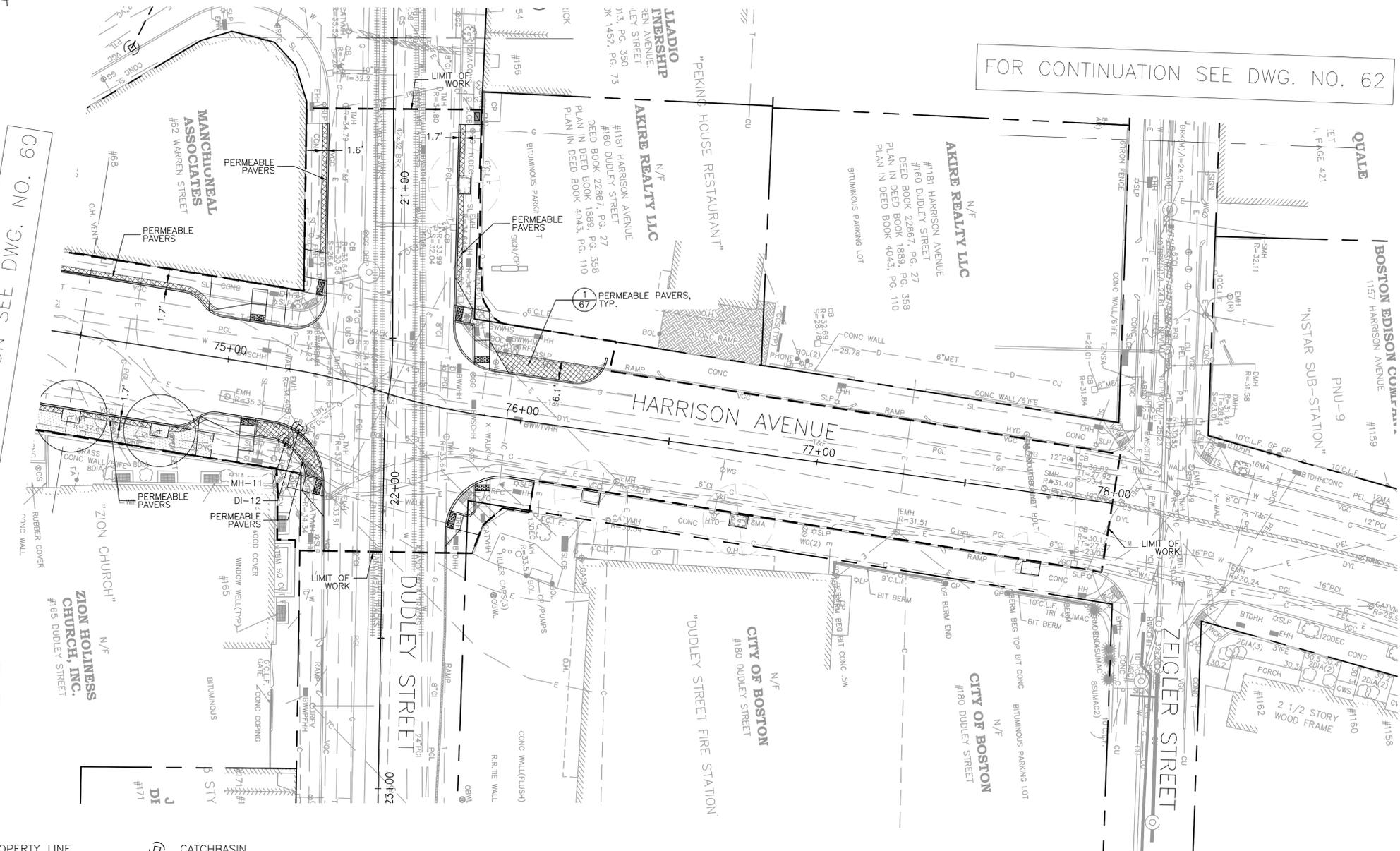
CITY ENGINEER



FOR CONTINUATION SEE DWG. NO. 59

FOR CONTINUATION SEE DWG. NO. 62

FOR CONTINUATION SEE DWG. NO. 60



- GENERAL NOTES:**
1. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION, MEANS, METHODS, TECHNIQUES OR PROCEDURES UTILIZED BY THE CONTRACTOR, NOR FOR THE SAFETY OF THE PUBLIC OR THE CONTRACTOR'S EMPLOYEES, OR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 2. CONTRACTOR SHALL STAKE OUT LOCATIONS OF NEW STRUCTURES AND GAIN APPROVAL FROM THE ENGINEER PRIOR TO CONSTRUCTION.
 3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE PRIOR TO CONSTRUCTION.
 4. AGGREGATE FOR STORMWATER INFILTRATION TRENCHES SHALL BE CLEAN AND DOUBLE-WASHED PRIOR TO PLACEMENT.
 5. MAINTAIN LOOSE AND UNCOMPACTED STORMWATER INFILTRATION TRENCH SUBGRADE, SCARIFY TOP 3 INCHES. DO NOT ALLOW CONSTRUCTION EQUIPMENT ON TRENCH BOTTOM SURFACE.
 6. PROTECT STORMWATER INFILTRATION TRENCH SUBGRADE FROM SEDIMENTATION DURING CONSTRUCTION.
 7. IF EXISTING UTILITIES ARE ENCOUNTERED WITHIN EXCAVATION LIMITS OF STORMWATER INFILTRATION TRENCHES, CONTRACTOR SHALL CONTACT ENGINEER.
 8. DETAIL DRAWINGS INCLUDED WITHIN THESE CONTRACT PLANS SUPERSEDE SIMILAR CITY OF BOSTON OR BOSTON WATER AND SEWER COMMISSION STANDARD DETAILS.
 9. FOR REFERENCED DETAILS NOT INCLUDED IN THIS DRAWING SET, SEE STANDARD BOSTON WATER AND SEWER COMMISSION DETAILS.
 10. ALL STRUCTURES SHALL BE PRECAST REINFORCED CONCRETE EXCEPT WHERE BRICK OR CAST-IN-PLACE CONCRETE CONSTRUCTION IS PERMITTED BY THE ENGINEER DUE TO SPACE LIMITATIONS OR OTHER SPECIAL FIELD CONDITIONS.
 11. THE CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS AND NOTIFY THE ENGINEER IMMEDIATELY, IN ADVANCE OF CONSTRUCTION, OF ANY DISCREPANCIES.
 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY HANDLING ALL FLOW IN EXISTING SEWER AND DRAIN LINES.
 13. INSTALL IMPERMEABLE LINER BETWEEN STORMWATER TRENCH AND STANDARD PAVING/BASE.

LEGEND

	PROPERTY LINE		CATCHBASIN
	PERMEABLE PAVERS		DRAINAGE MANHOLE (MH)
	STRUCTURAL SOIL		

- NOTES:**
1. FOR KEY PLAN, GENERAL NOTES, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
 2. FOR TYPICAL SECTIONS, SEE SHEETS 5 THRU 7.
 3. FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
 4. FOR DRAINAGE AND UTILITIES PLANS, SEE SHEETS 36 THRU 42.
 5. FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
 6. FOR LANDSCAPE PLANS, SEE SHEETS 85 THRU 92.
 7. FOR STREET LIGHTING PLANS, SEE SHEETS 93 THRU 99.

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO COMMISSION STANDARDS

BOSTON WATER AND SEWER COMMISSION

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	A.KEEL
CHECKED BY	H.HOLMES
APPROVED BY	E.ADAMOWICZ

CIP XX-XX SHEET 61 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
GREEN INFRASTRUCTURE PLAN**
ROXBURY

SCALE: 1" = 20'-0" AREA: 1
DISTRICT: 10 DATE: FEB. 7, 2019

CITY ENGINEER



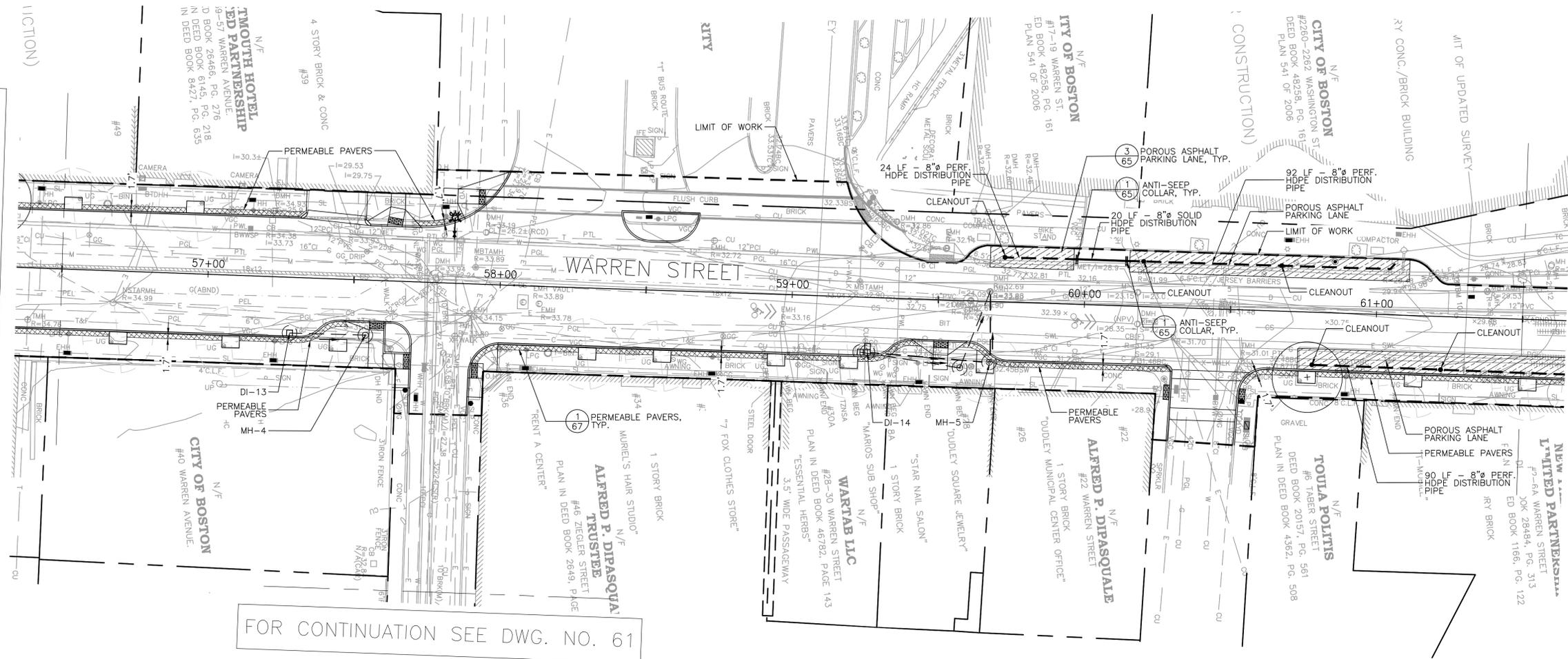
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DRAWING PREPARED BY HATCH

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13. INSTALL IMPERMEABLE LINER BETWEEN STORMWATER TRENCH AND STANDARD PAVING/BASE.



FOR CONTINUATION SEE DWG. NO. 59

FOR CONTINUATION SEE DWG. NO. 64

FOR CONTINUATION SEE DWG. NO. 61

- LEGEND**
- PROPERTY LINE
 - ▨ POROUS ASPHALT
 - ▩ PERMEABLE PAVERS
 - STORMWATER PIPE
 - - - 8" PERFORATED HDPE DISTRIBUTION STORMWATER PIPE
 - 8" SOLID HDPE STORMWATER PIPE
 - ✕ ANTI-SEEP COLLAR
 - CLEANOUT
 - OBSERVATION WELL
 - ⊕ CATCHBASIN
 - ⊙ DRAINAGE MANHOLE (MH)
 - PROPOSED STREET LIGHTING FIXTURE
 - PROPOSED STREET LIGHTING PULL BOX
 - ☆ EXISTING POLE/STREET LIGHT
 - EXISTING STREET LIGHTING PULL BOX
 - PROPOSED LIGHTING CONTROL CABINET
 - ▣ EXISTING LIGHTING CONTROL CABINET

- NOTES:**
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 3. FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
 4. FOR DRAINAGE AND UTILITIES PLANS, SEE SHEETS 36 THRU 42.
 5. FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
 6. FOR LANDSCAPE PLANS, SEE SHEETS 89 THRU 92.
 7. FOR STREET LIGHTING PLANS, SEE SHEETS 93 THRU 99.



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DRAWING PREPARED BY HATCH

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO COMMISSION STANDARDS

BOSTON WATER AND SEWER COMMISSION

SURVEY BY BRYANT ASSOCIATES

DRAWN BY A.KEEL

CHECKED BY H.HOLMES

APPROVED BY E.ADAMOWICZ

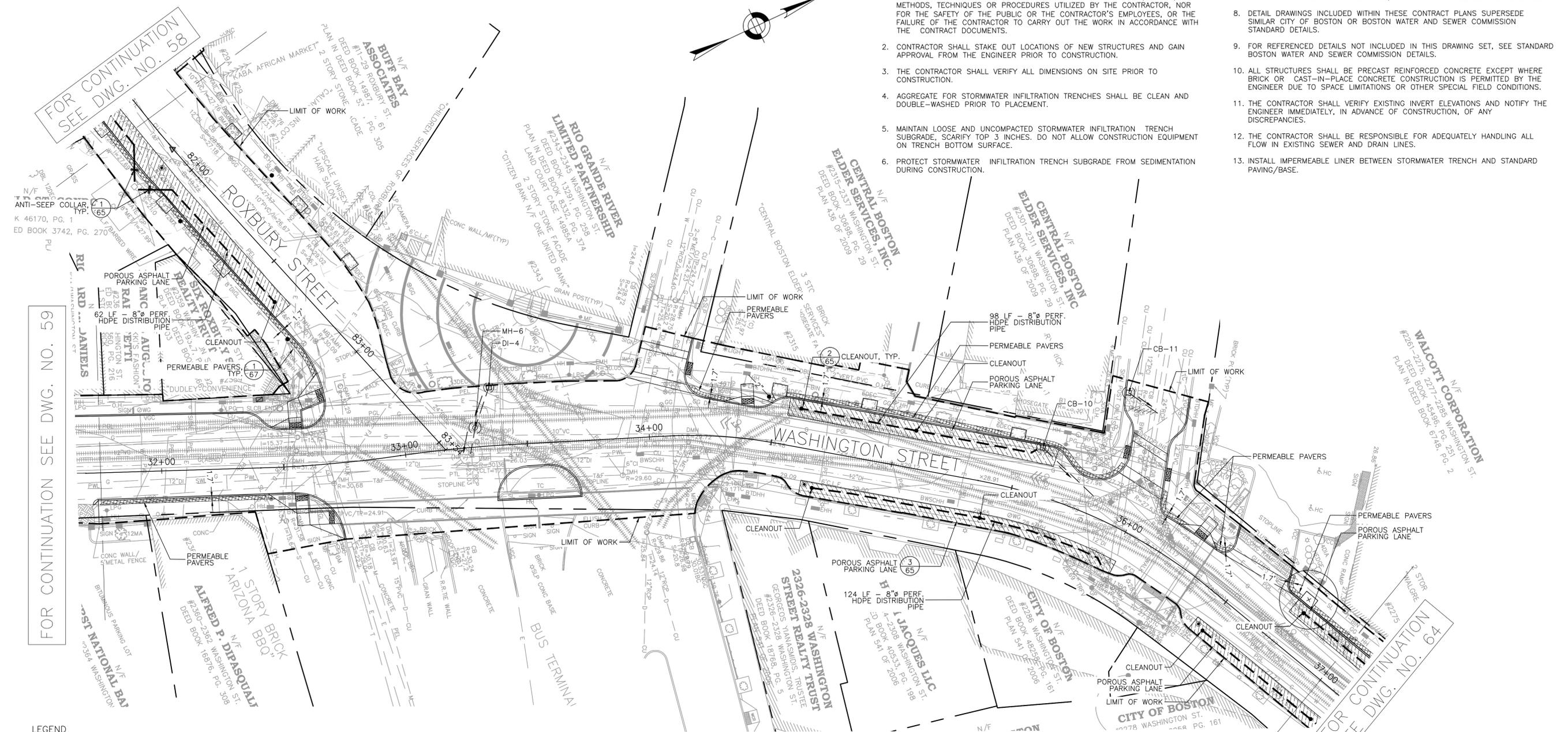
CIP XX-XX SHEET 62 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
**DUDLEY SQUARE PHASE 2
GREEN INFRASTRUCTURE PLAN**
ROXBURY

SCALE: 1" = 20'-0"
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER



FOR CONTINUATION SEE DWG. NO. 58

FOR CONTINUATION SEE DWG. NO. 59

FOR CONTINUATION SEE DWG. NO. 64

- GENERAL NOTES:**
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 5. MAINTAIN LOOSE AND UNCOMPACTED STORMWATER INFILTRATION TRENCH SUBGRADE, SCARIFY TOP 3 INCHES. DO NOT ALLOW CONSTRUCTION EQUIPMENT ON TRENCH BOTTOM SURFACE.
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- LEGEND**
- PROPERTY LINE
 - ▨ POROUS ASPHALT
 - ▩ PERMEABLE PAVERS
 - STORMWATER PIPE
 - 8" PERFORATED HDPE DISTRIBUTION STORMWATER PIPE
 - 8" SOLID HDPE STORMWATER PIPE
 - ✕ ANTI-SEEP COLLAR
 - CLEANOUT
 - OBSERVATION WELL
 - ⊕ CATCHBASIN
 - ⊙ DRAINAGE MANHOLE (MH)
 - PROPOSED STREET LIGHTING FIXTURE
 - PROPOSED STREET LIGHTING PULL BOX
 - ☆ EXISTING POLE/STREET LIGHT
 - EXISTING STREET LIGHTING PULL BOX
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REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO COMMISSION STANDARDS

BOSTON WATER AND SEWER COMMISSION

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	A.KEEL
CHECKED BY	H.HOLMES
APPROVED BY	E.ADAMOWICZ

CIP XX-XX SHEET 63 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
GREEN INFRASTRUCTURE PLAN**
ROXBURY

SCALE: 1" = 20'-0"
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

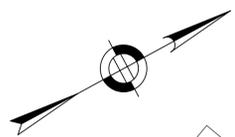
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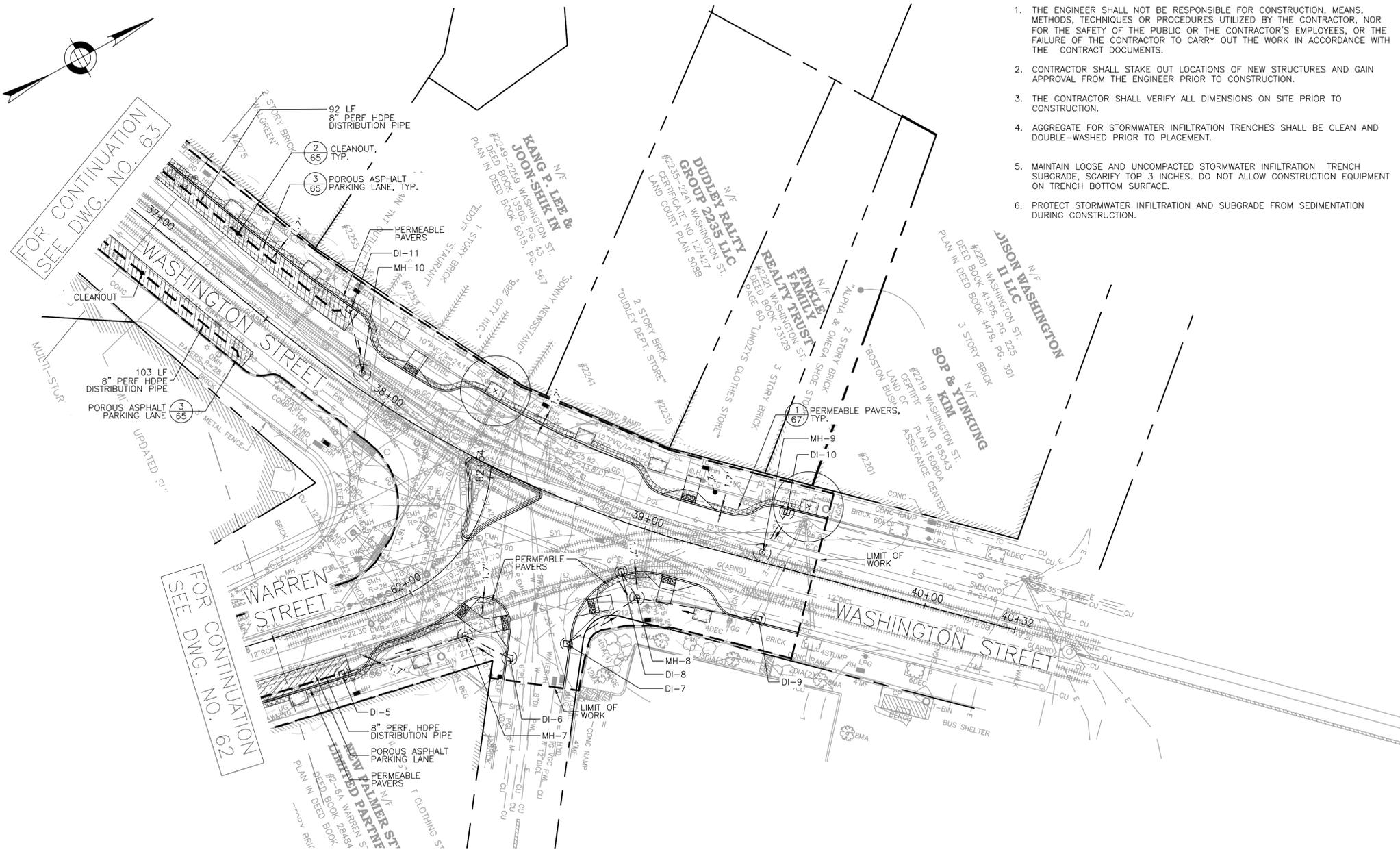


FOR CONTINUATION
SEE DWG. NO. 63

FOR CONTINUATION
SEE DWG. NO. 62

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LEGEND

- PROPERTY LINE
- ▨ POROUS ASPHALT
- ▩ PERMEABLE PAVERS
- STORMWATER PIPE
- 8" PERFORATED HDPE DISTRIBUTION STORMWATER PIPE
- CLEANOUT
- ⊙ OBSERVATION WELL
- ⊕ CATCHBASIN
- ⊙ DRAINAGE MANHOLE (MH)
- PROPOSED STREET LIGHTING FIXTURE
- PROPOSED STREET LIGHTING PULL BOX
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REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO COMMISSION STANDARDS

BOSTON WATER AND SEWER COMMISSION

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	A.KEEL
CHECKED BY	H.HOLMES
APPROVED BY	E.ADAMOWICZ

CIP XX-XX SHEET 64 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
GREEN INFRASTRUCTURE PLAN**
ROXBURY

SCALE: 1" = 20'-0"
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

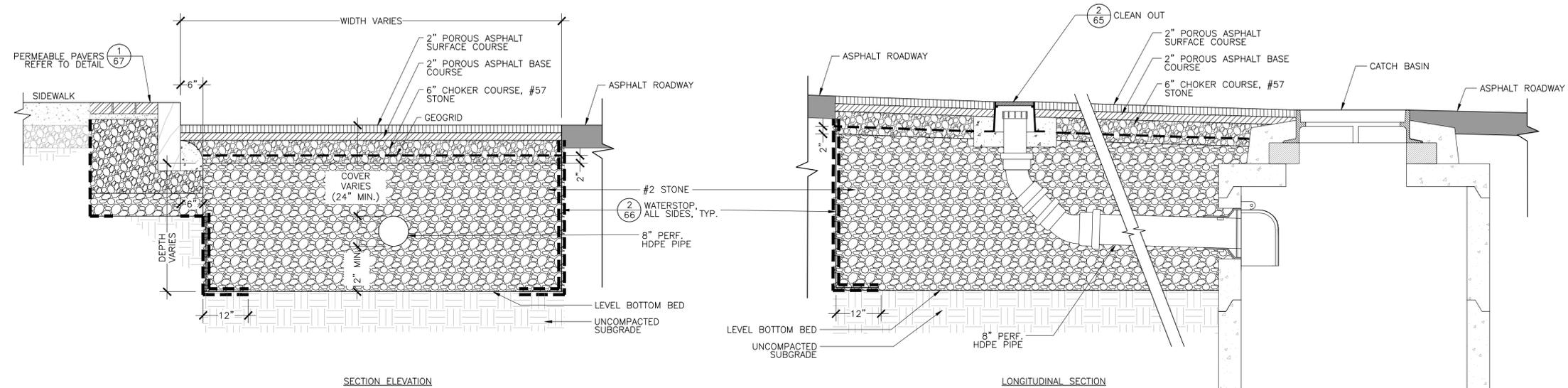
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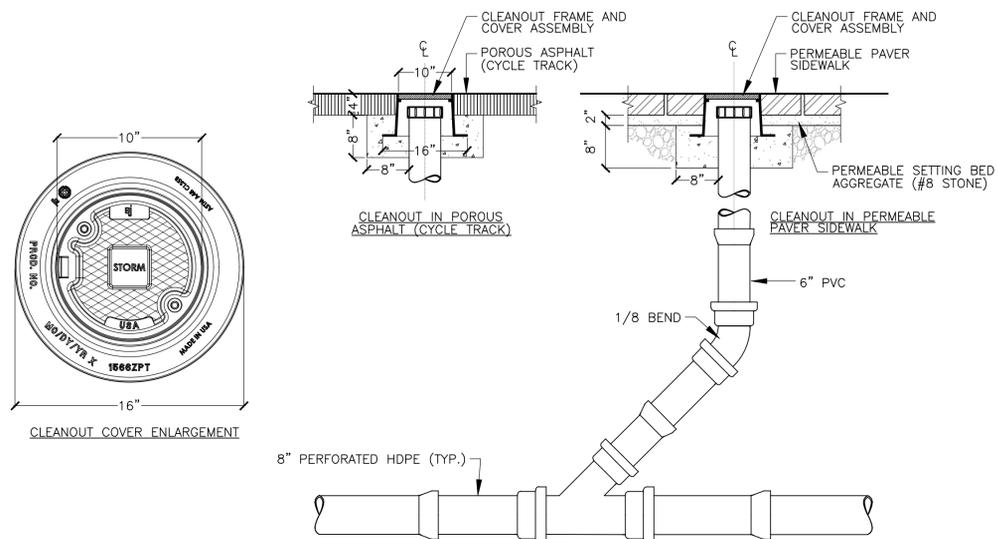
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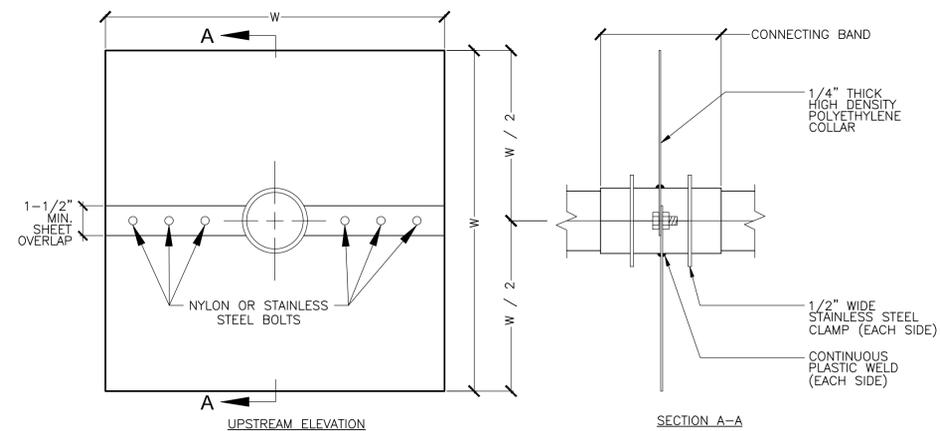
NOTE:
 1. ALL CRUSHED STONE SHALL BE CLEAN AND DOUBLE-WASHED.
 2. HDPE PIPE SHALL BE PERFORATED ONLY WITHIN LIMITS OF STONE BED.

3 POROUS ASPHALT PARKING LANE
 SCALE: NTS



NOTES:
 1. 8\"/>

2 CLEANOUT
 SCALE: NTS



NOTES:
 1. CONNECTING BAND SHALL BE SEALED AT BOTH ENDS WITH EPOXY.
 2. COLLAR MATERIAL SHALL BE RIGID POLYETHYLENE SHEET.
 3. STAINLESS STEEL SHALL BE GRADE 304 OR BETTER.
 4. DIMENSION 'W' SHALL BE 3 TIMES THE DIAMETER OF THE INTERSECTING PIPE.

1 ANTI-SEEP COLLAR
 SCALE: NTS

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO COMMISSION STANDARDS

BOSTON WATER AND SEWER COMMISSION
 SURVEY BY BRYANT ASSOCIATES
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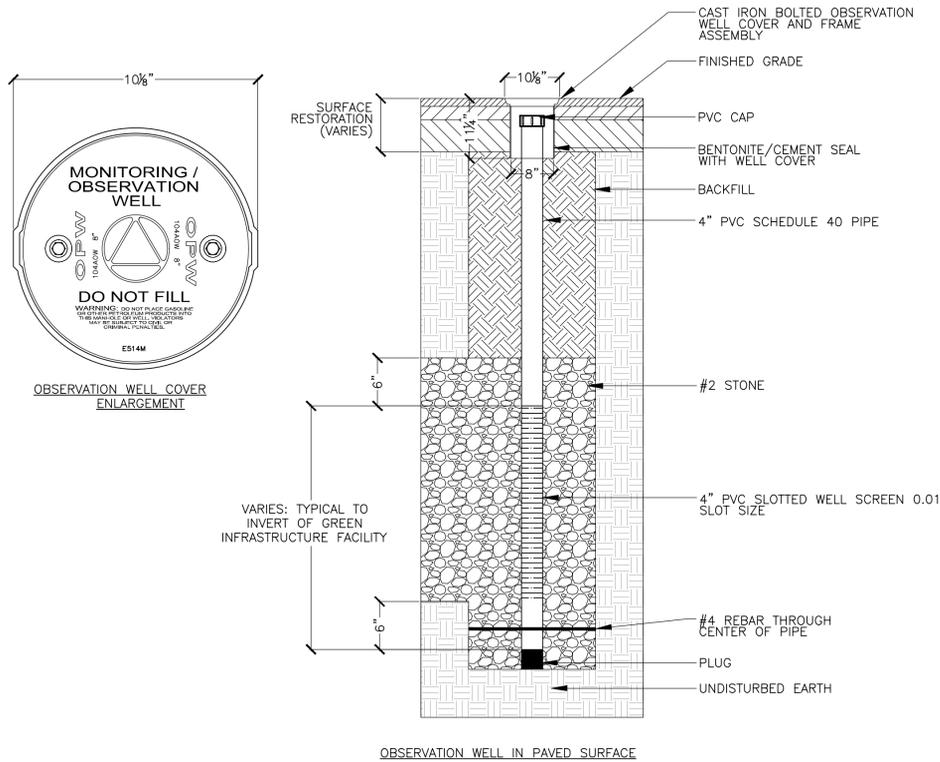
CIP XX-XX SHEET 65 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
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**DUDLEY SQUARE PHASE 2
 GREEN INFRASTRUCTURE DETAILS**
 ROXBURY
 SCALE: N/A
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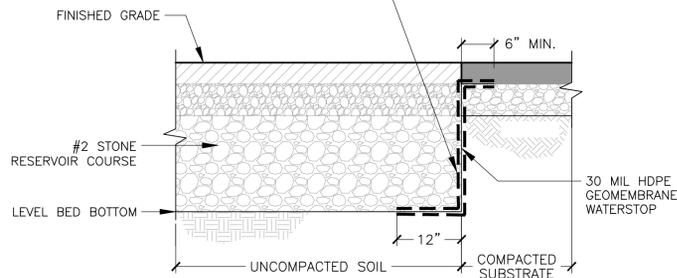
DRAWING PREPARED BY HATCH



- NOTES:
1. WELL COVER SHALL BE SECURED IN CONCRETE SURROUND (1'-4" TOTAL DIAMETER) IF WELL IS NOT OTHERWISE SECURED BY SURFACE RESTORATION.
 2. THE UNSLOTTED DEPTH IS LOCATED ENTIRELY IN THE SUMP.
 3. THE #4 REBAR SHOULD BE 16" IN LENGTH.
 4. CRUSHED STONE SHALL BE CLEAN AND DOUBLE-WASHED.
 5. OBSERVATION WELL COVER AND FRAME ASSEMBLY SHALL BE OPW 104AOW-0800 CAST IRON COVER AND RING WITH STEEL SKIRT AND NEOPRENE GASKET OR APPROVED EQUAL.

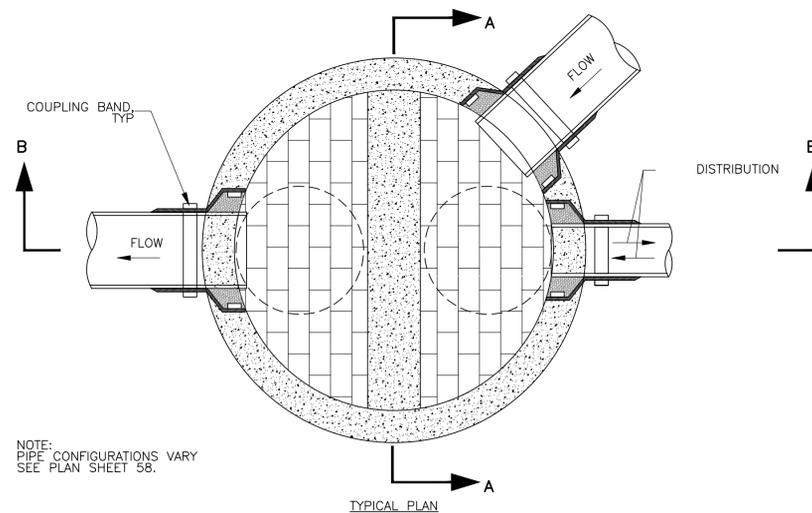
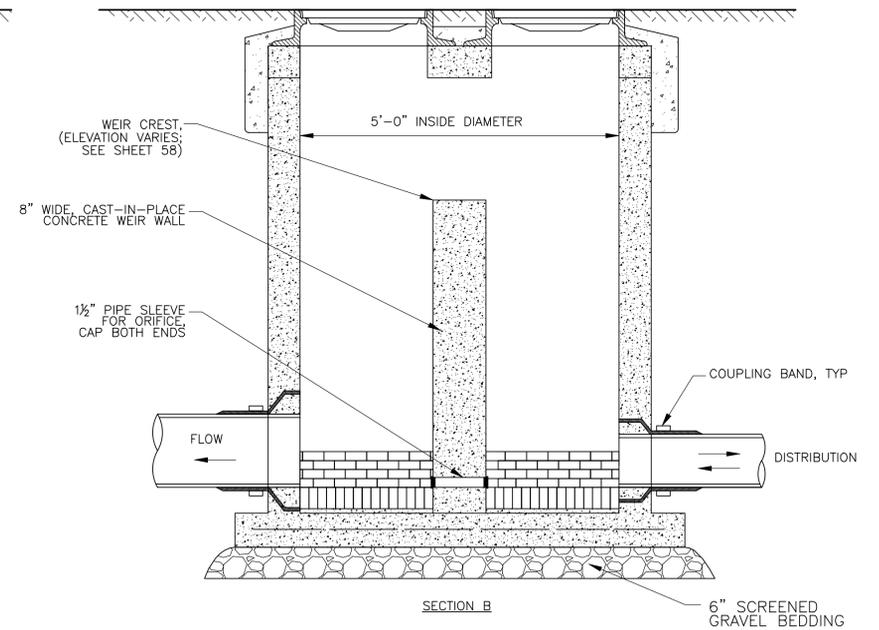
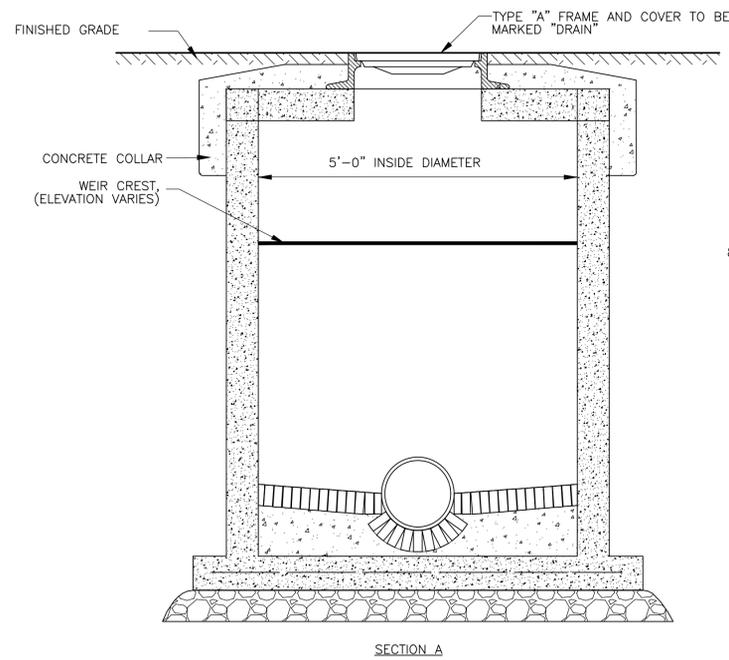
3 OBSERVATION WELL
SCALE: NTS

6 OZ. NON-WOVEN GEOTEXTILE ON EACH SIDE OF GEOMEMBRANE (ON SIDES, FOLD OVER EDGE DURING CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING BED)



- NOTE:
1. INSTALL 30 MIL HDPE GEOMEMBRANE BETWEEN STORMWATER INFILTRATION SYSTEM SUBBASE AND ADJACENT SUBSTRATE. EXTEND MIN. 12" ALONG BOTTOM OF TRENCH AND MIN. 6" AT THE TOP.

2 WATERSTOP
SCALE: NTS



NOTE: PIPE CONFIGURATIONS VARY SEE PLAN SHEET 58.

1 CONTROL DRAINAGE MANHOLE
SCALE: NTS

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO COMMISSION STANDARDS

BOSTON WATER AND SEWER COMMISSION

SURVEY BY BRYANT ASSOCIATES

DRAWN BY A.KEEL, C.PORANSKI

CHECKED BY H.HOLMES

APPROVED BY E.ADAMOWICZ

CIP XX-XX SHEET 66 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
**DUDLEY SQUARE PHASE 2
GREEN INFRASTRUCTURE DETAILS**
ROXBURY

SCALE: N/A
DISTRICT: 10

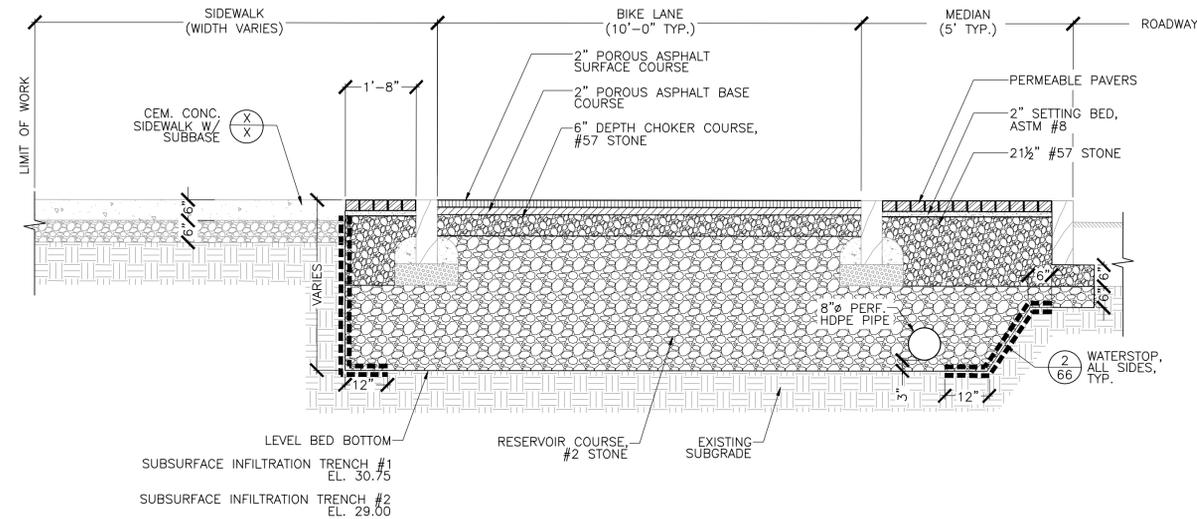
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CITY ENGINEER

HATCH WSP

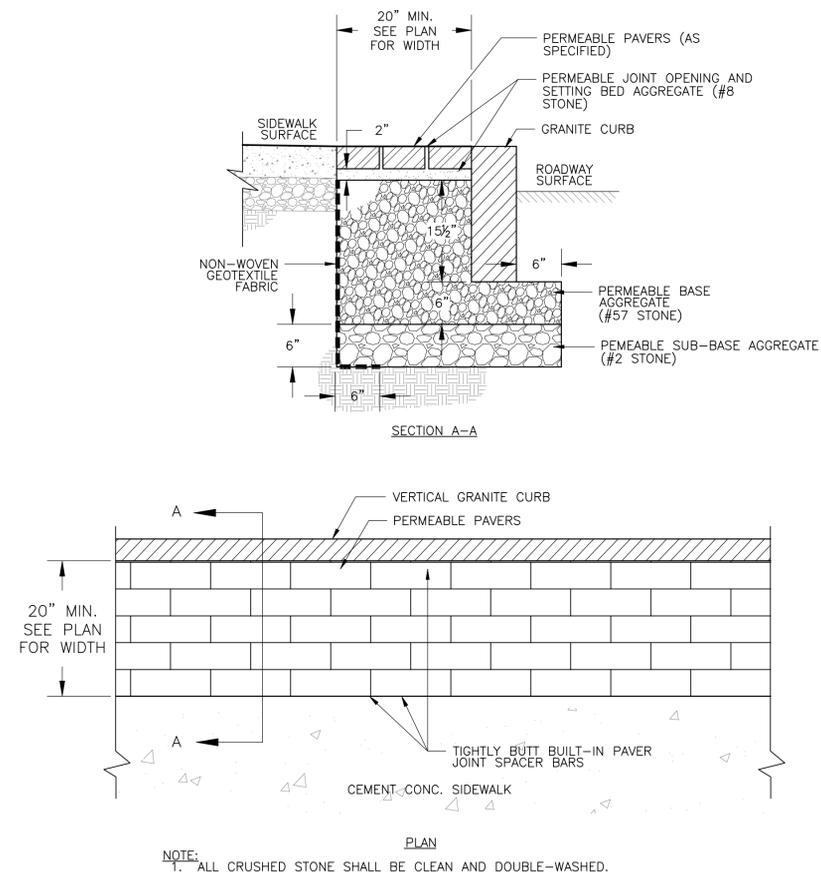
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NOTE:
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2 INFILTRATION TRENCH AT MALCOLM X BOULEVARD— SECTION
 SCALE: NTS



NOTE:
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1 PERMEABLE PAVERS
 SCALE: NTS

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CIP XX-XX SHEET 67 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
 GREEN INFRASTRUCTURE DETAILS**
 ROXBURY

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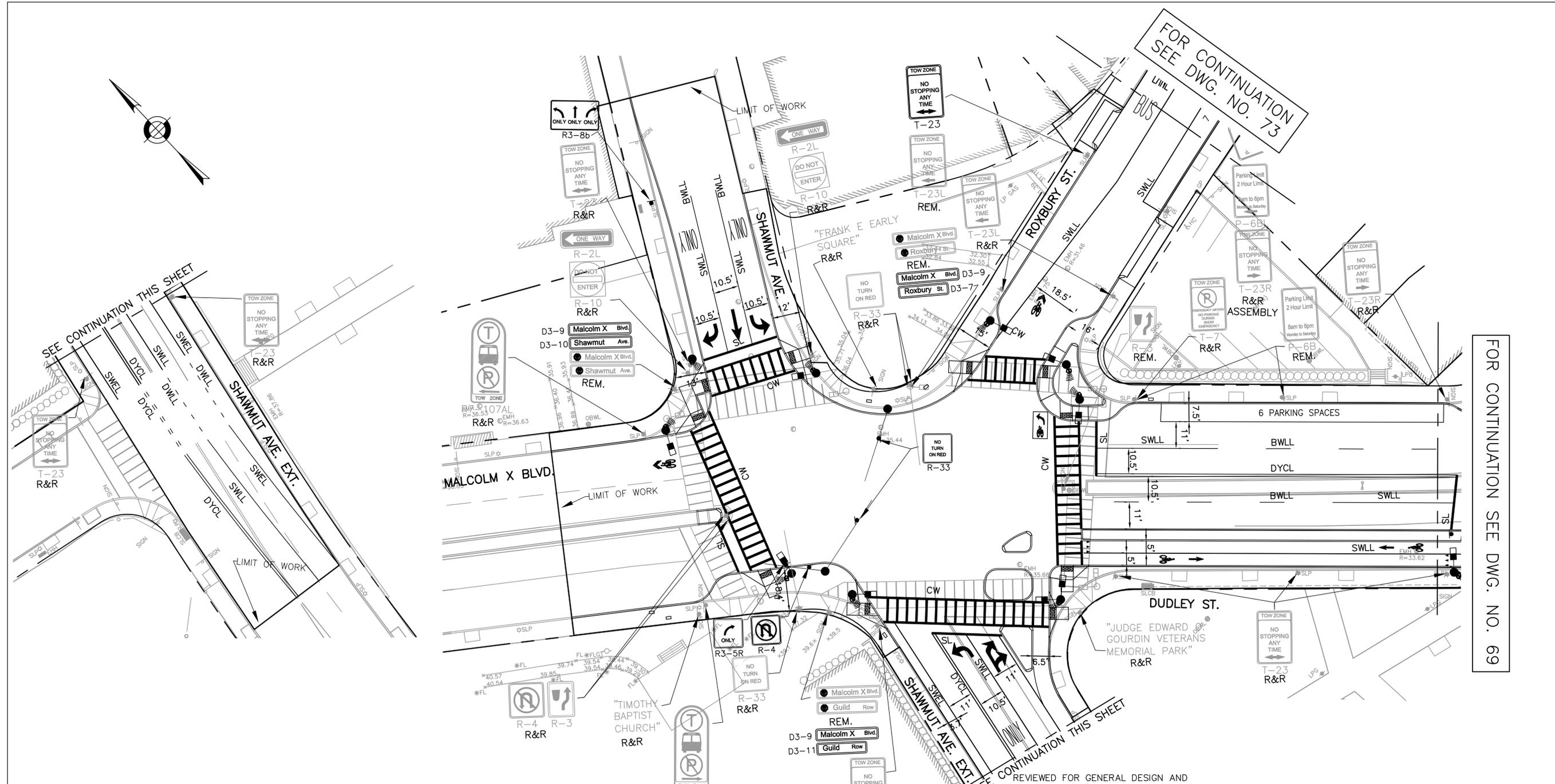
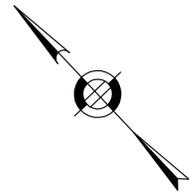
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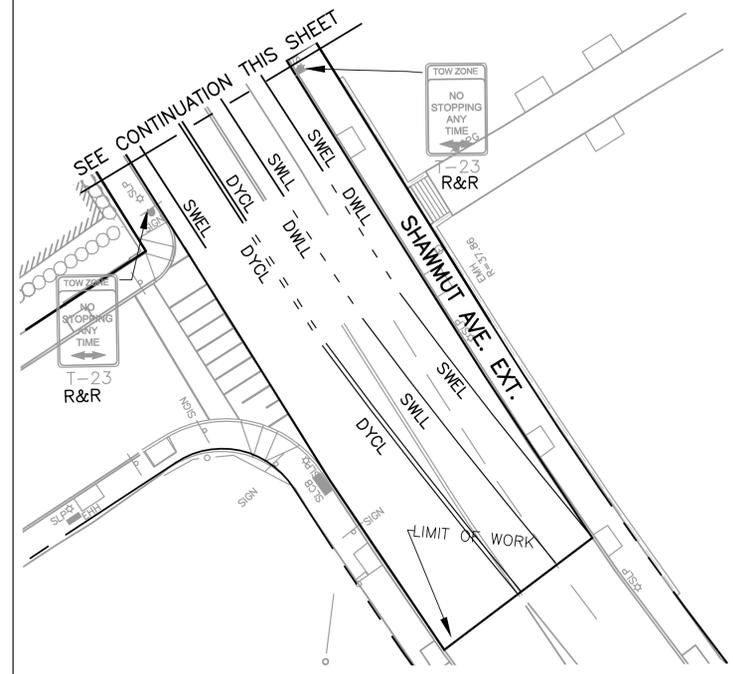
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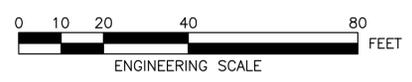
FOR CONTINUATION
SEE DWG. NO. 73

FOR CONTINUATION SEE DWG. NO. 69



R-XXXX-68

- NOTES:**
1. THIS PLAN REPRESENTS EXISTING SIGNAGE IN JULY 2017. SOME EXISTING SIGNAGE HAS BEEN IMPACTED BY CONSTRUCTION ACTIVITY THROUGHOUT DUDLEY SQUARE.
 2. ALL PAVEMENT MARKINGS WILL BE THERMOPLASTIC UNLESS OTHERWISE INDICATED.
 3. REFURBISH EXISTING LANE MARKINGS AS DIRECTED BY PROJECT ENGINEER.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	A. DALLY
CHECKED BY	P. FUSCO
APPROVED BY	J. CONLEY

CIP XX-XX SHEET 68 OF 117

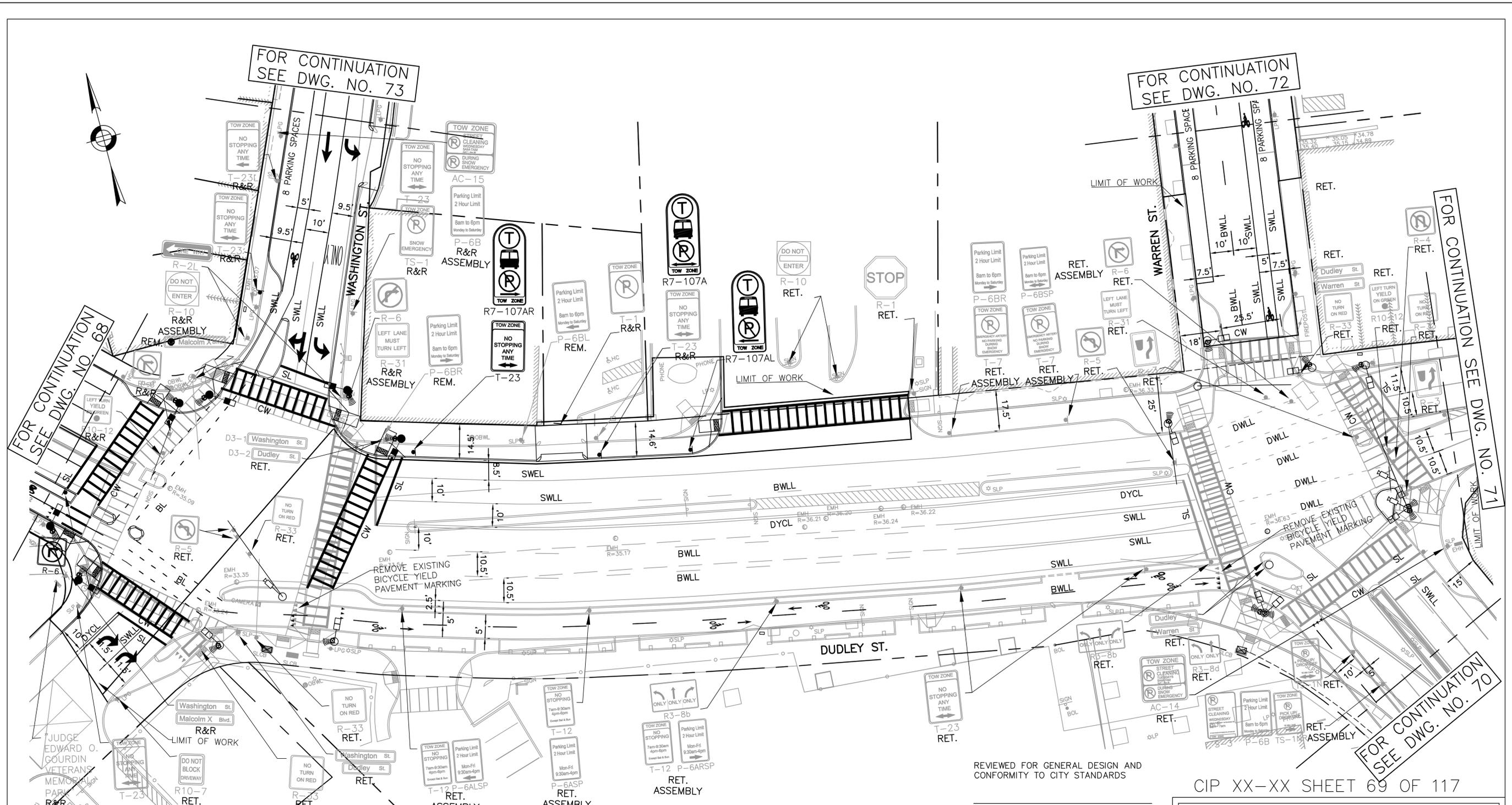
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
PAVEMENT MARKINGS & SIGNAGE PLANS**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER



FOR CONTINUATION
SEE DWG. NO. 73

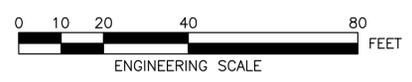
FOR CONTINUATION
SEE DWG. NO. 72

FOR CONTINUATION
SEE DWG. NO. 68

FOR CONTINUATION
SEE DWG. NO. 71

FOR CONTINUATION
SEE DWG. NO. 70

- NOTES:**
1. THIS PLAN REPRESENTS EXISTING SIGNAGE IN JULY 2017. SOME EXISTING SIGNAGE HAS BEEN IMPACTED BY CONSTRUCTION ACTIVITY THROUGHOUT DUDLEY SQUARE.
 2. ALL PAVEMENT MARKINGS WILL BE THERMOPLASTIC UNLESS OTHERWISE INDICATED.
 3. REFURBISH EXISTING LANE MARKINGS AS DIRECTED BY PROJECT ENGINEER.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	A. DALLY
CHECKED BY	P. FUSCO
APPROVED BY	J. CONLEY

CIP XX-XX SHEET 69 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
PAVEMENT MARKINGS & SIGNAGE PLANS**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

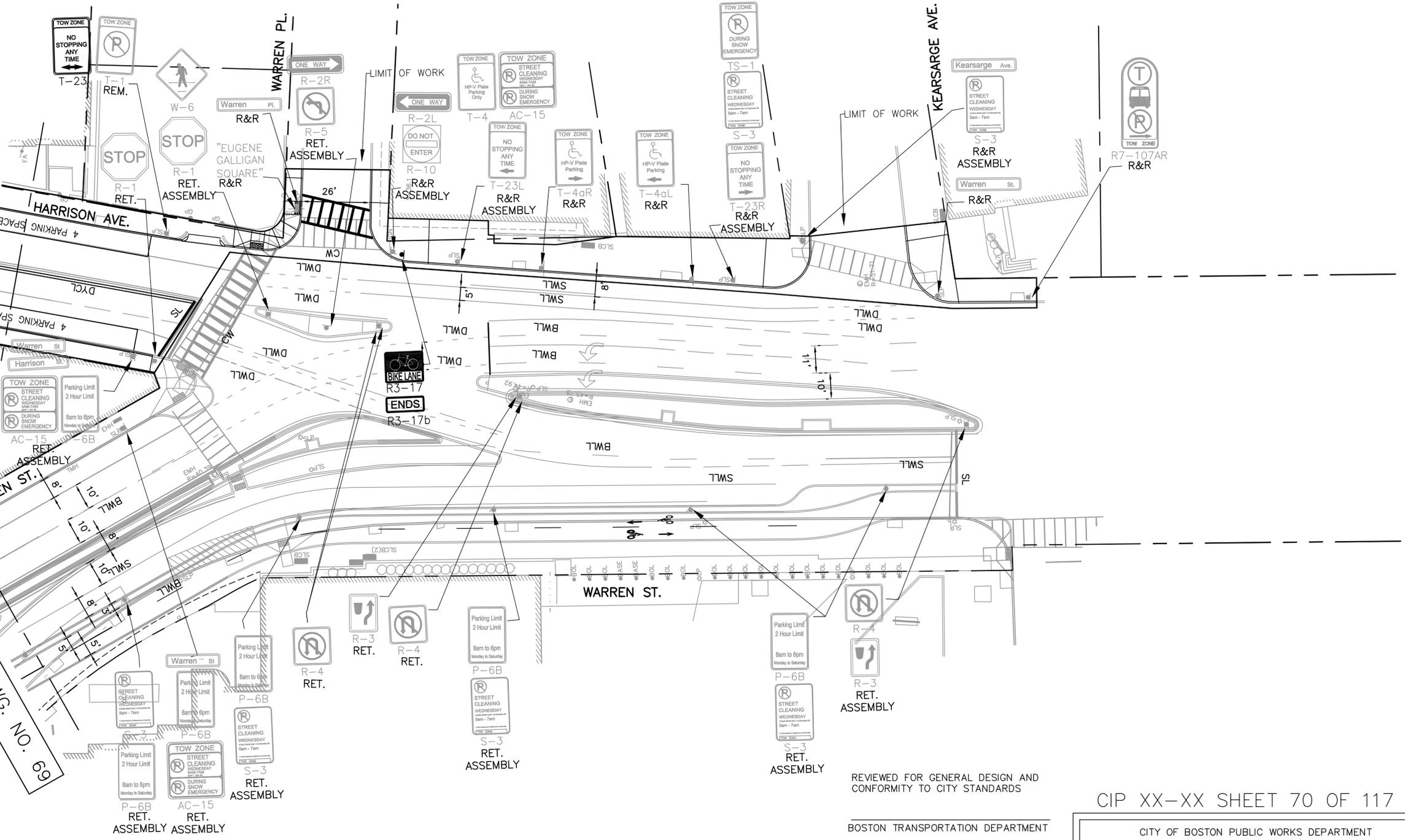
CITY ENGINEER

R-XXXX-69



FOR CONTINUATION SEE DWG. NO. 71

FOR CONTINUATION SEE DWG. NO. 69



- NOTES:**
1. THIS PLAN REPRESENTS EXISTING SIGNAGE IN JULY 2017. SOME EXISTING SIGNAGE HAS BEEN IMPACTED BY CONSTRUCTION ACTIVITY THROUGHOUT DUDLEY SQUARE.
 2. ALL PAVEMENT MARKINGS WILL BE THERMOPLASTIC UNLESS OTHERWISE INDICATED.
 3. REFURBISH EXISTING LANE MARKINGS AS DIRECTED BY PROJECT ENGINEER.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	A. DALLY
CHECKED BY	P. FUSCO
APPROVED BY	J. CONLEY

CIP XX-XX SHEET 70 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
PAVEMENT MARKINGS & SIGNAGE PLANS**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

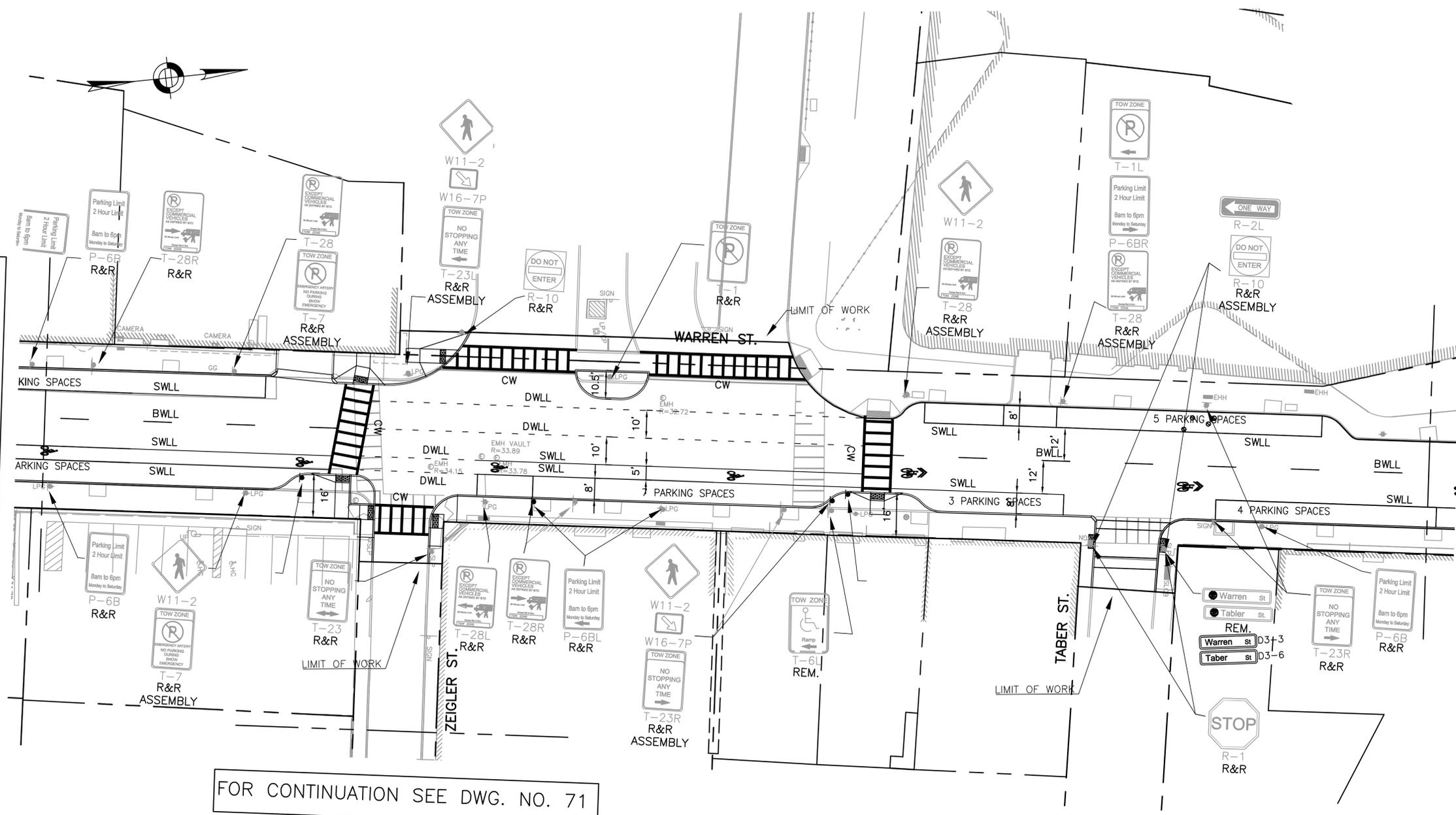
CITY ENGINEER

R-XXXX-70

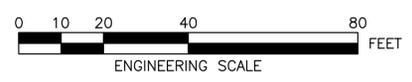
FOR CONTINUATION SEE DWG. NO. 69

FOR CONTINUATION SEE DWG. NO. 74

FOR CONTINUATION SEE DWG. NO. 71



- NOTES:
1. THIS PLAN REPRESENTS EXISTING SIGNAGE IN JULY 2017. SOME EXISTING SIGNAGE HAS BEEN IMPACTED BY CONSTRUCTION ACTIVITY THROUGHOUT DUDLEY SQUARE.
 2. ALL PAVEMENT MARKINGS WILL BE THERMOPLASTIC UNLESS OTHERWISE INDICATED.
 3. REFURBISH EXISTING LANE MARKINGS AS DIRECTED BY PROJECT ENGINEER.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	A. DALLY
CHECKED BY	P. FUSCO
APPROVED BY	J. CONLEY

CIP XX-XX SHEET 72 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION

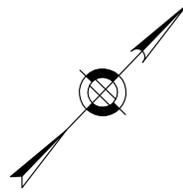
**DUDLEY SQUARE PHASE 2
 PAVEMENT MARKINGS & SIGNAGE PLANS**
 ROXBURY

SCALE: 1" = 20'
 DISTRICT: 10

AREA: 1
 DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-72



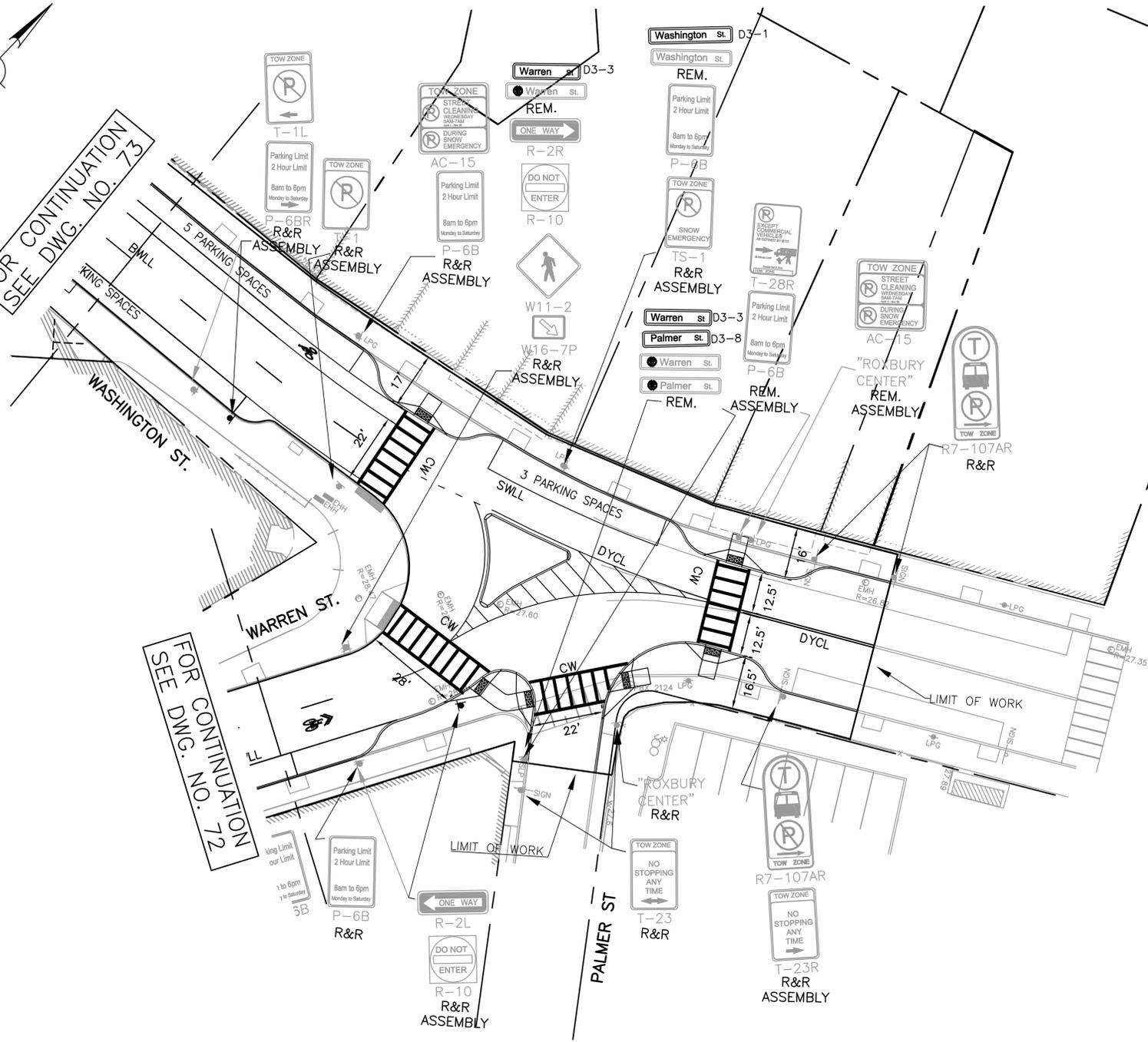
FOR CONTINUATION
SEE DWG. NO. 73

FOR CONTINUATION
SEE DWG. NO. 72

NOTES:

1. THIS PLAN REPRESENTS EXISTING SIGNAGE IN JULY 2017. SOME EXISTING SIGNAGE HAS BEEN IMPACTED BY CONSTRUCTION ACTIVITY THROUGHOUT DUDLEY SQUARE.
2. ALL PAVEMENT MARKINGS WILL BE THERMOPLASTIC UNLESS OTHERWISE INDICATED.
3. REFURBISH EXISTING LANE MARKINGS AS DIRECTED BY PROJECT ENGINEER.

R-XXXX-74



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY BRYANT ASSOCIATES
 DRAWN BY A. DALLY
 CHECKED BY P. FUSCO
 APPROVED BY J. CONLEY

CIP XX-XX SHEET 74 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
 PAVEMENT MARKINGS & SIGNAGE PLANS**
 ROXBURY

SCALE: 1" = 20'
 DISTRICT: 10

AREA: 1
 DATE: FEB. 7, 2019

CITY ENGINEER

IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		UNIT AREA SF	TEXT	TEXT DIMENSIONS	NUMBER OF SIGNS REQUIRED	COLOR	POST SIZE AND NUMBER REQUIRED PER SIGN	AREA IN SQUARE FEET
	WIDTH	HEIGHT							
R-3	18"	24"	3		SEE BOSTON TRANSPORTATION DEPARTMENT STANDARD DETAIL	3	SEE BOSTON TRANSPORTATION DEPARTMENT STANDARD DETAIL	BTD SPEC. MOUNT ON MAST ARM/POST	9
R-4	24"	24"	4			1			4
R-5	24"	24"	4			3			12
R-6	24"	24"	4			2			8
R-31	30"	30"	6.25			1			6.25
R-33	24"	24"	4			3			12
R3-8b	36"	30"	7.5			2			15
R3-8E	30"	30"	6.25			1			6.25
R10-12	24"	30"	5			2			10
AC-15	18"	18"	2.25			1			2.25
P-6ASP	12"	18"	1.5			1			1.5
P-6ALSP	12"	18"	1.5			1			1.5
P-6ARSP	12"	18"	1.5			1			1.5
P-6B	12"	18"	1.5			6			9
P-6BSP	12"	18"	1.5			1			1.5
S-3	12"	18"	1.5			5			7.5
T-23	12"	18"	1.5			2			3
T-23L	12"	18"	1.5			2			3

IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		UNIT AREA SF	TEXT	TEXT DIMENSIONS	NUMBER OF SIGNS REQUIRED	COLOR	POST SIZE AND NUMBER REQUIRED PER SIGN	AREA IN SQUARE FEET
	WIDTH	HEIGHT							
T-23R	12"	18"	1.5		SEE BOSTON TRANSPORTATION DEPARTMENT STANDARD DETAIL	1	SEE BOSTON TRANSPORTATION DEPARTMENT STANDARD DETAIL	BTD SPEC. MOUNT ON MAST ARM/POST	1.5
TS-1N	12"	18"	1.5			1			1.5
TS-1NR	12"	18"	1.5			1			1.5
D3-1	9"	VARIES	VARIES			2			VARIES
D3-2	9"	VARIES	VARIES			4			VARIES
D3-3	9"	VARIES	VARIES			4			VARIES
D3-4	9"	VARIES	VARIES			1			VARIES
D3-5	9"	VARIES	VARIES			1			VARIES
R-1	30"	30"	5.2			1			5.2
W1-4bL	30"	30"	5.2			1			5.2

R-XXXX-75

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY A. DALLY

CHECKED BY P. FUSCO

APPROVED BY J. CONLEY



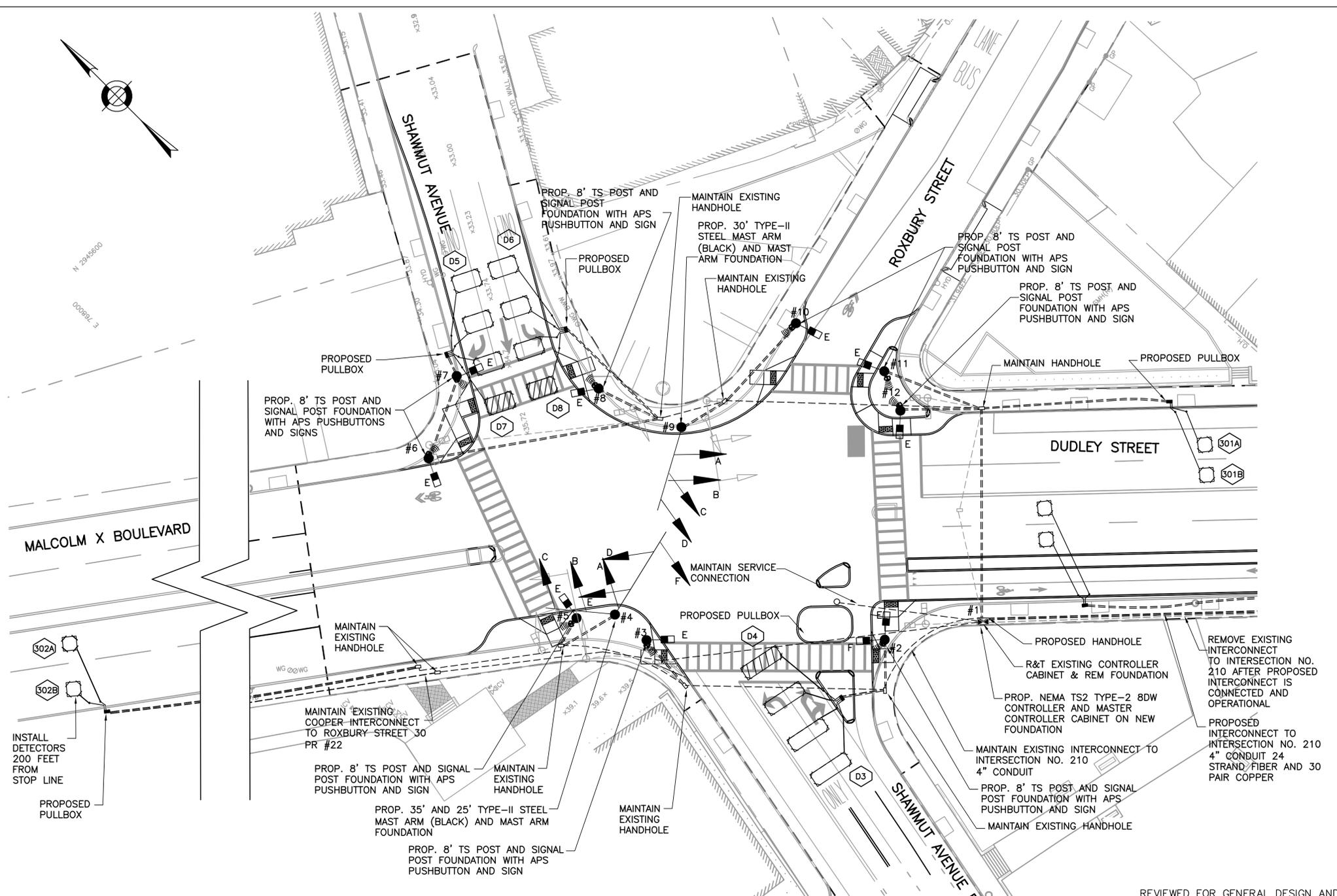
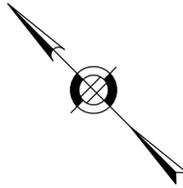
CIP XX-XX SHEET 75 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
TRAFFIC SIGN SUMMARY
ROXBURY

SCALE: N.T.S.
DISTRICT: 10

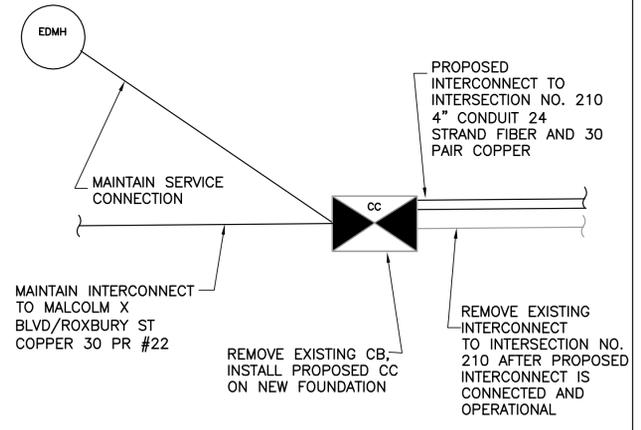
AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER



- NOTES:**
1. REMOVE AND TRANSPORT ALL EXISTING TRAFFIC SIGNAL EQUIPMENT AS DIRECTED ON PLAN
 2. REMOVE AND DESTROY ALL EXISTING TRAFFIC SIGNAL FOUNDATIONS AS DIRECTED ON PLAN
 3. SEE SHEET 34 AND 35 FOR PAVEMENT MARKING AND SIGNAGE PLAN
 4. TRAFFIC SIGNAL CABINET AND CONTROLLER TO BE INSTALLED DURING PHASE 2
 5. INSTALL AND TEST INTERFACE OF NEW CONTROLLER AND EQUIPMENT PRIOR TO DEACTIVATION AND REMOVAL OF EXISTING EQUIPMENT
 6. THIS PLAN REPRESENTS INTERCONNECT FROM JUNE 2016 PLANS FROM THE BOSTON TRANSPORTATION DEPARTMENT.
 7. MAINTAIN EXISTING INTERCONNECT TO ADJACENT INTERSECTIONS THROUGHOUT CONSTRUCTION
 8. INSTALL AND TEST PROPOSED INTERCONNECT PRIOR TO DEACTIVATION AND REMOVAL OF EXISTING INTERCONNECT
 9. ALL VEHICULAR INDICATIONS MOUNTED ON MASTARMS FACING EAST-WEST SHALL BE RIGID MOUNTED AND BE EQUIPPED WITH 5" NON-LOUVERED BACKPLATES WITH BORDERS.
 10. ALL CONDUIT WITHIN ROADWAY SHALL BE 3" PVC SCHEDULE 80 AND ALL CONDUIT OUTSIDE OF THE ROADWAY SHALL BE 3" PVC SCHEDULE 40 UNLESS OTHERWISE NOTED.

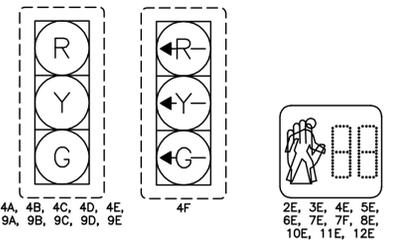
INTERCONNECT DIAGRAM
N.T.S.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

CIP XX-XX SHEET 76 OF 117

SIGNAL FACES



BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	A. DALLY
CHECKED BY	P. FUSCO
APPROVED BY	J. CONLEY

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

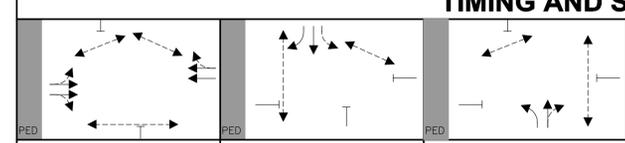
**DUDLEY SQUARE PHASE 2
TRAFFIC SIGNAL PLAN**
MALCOLM X BLVD & ROXBURY STREET
ROXBURY
INTERSECTION #2346

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-76

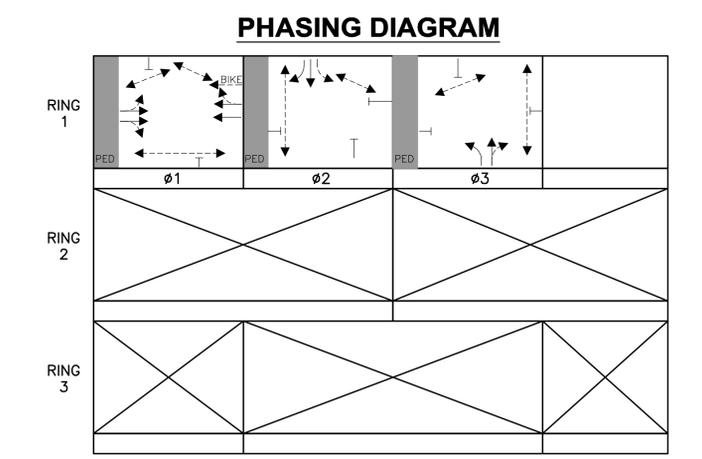
TIMING AND SEQUENCE CHART											OPERATION FLASHING
											
STREET/DIRECTION/FACE	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL		
MALCOLM X EB/4D,4E	G	Y	R	R	R	R	R	R	R		
MALCOLM X WB/9A,9B	G	Y	R	R	R	R	R	R	R		
SHAWMUT ST SB/4A,4B,4C	R	R	R	G	Y	R	R	R	R		
SHAWMUT EXT LT/NB/5F	R	R	R	R	R	R	GL	YL	RL		
SHAWMUT EXT NB/9C,9D	R	R	R	R	R	R	G	Y	R		
C.W./N-S/5E-6E	DW	DW	DW	W	FDW	DW	DW	DW	DW		
C.W./N-S/2E-12E	DW	DW	DW	DW	DW	DW	W	FDW	DW		
C.W./E-W/7F-8E	W	FDW	DW	DW	DW	DW	W	FDW	DW		
C.W./E-W/10E-11E	W	FDW	DW	W	FDW	DW	DW	DW	DW		
C.W./E-W/3E-4E	W	FDW	DW	DW	DW	DW	DW	DW	DW		
I N T E R V A L S	MINIMUM GREEN	10		9			8				
	VEHICLE EXTENSION	2									
	MAXIMUM 1 GREEN	26		21			30				
	MAXIMUM 2 GREEN	31		30			16				
	YELLOW CLEARANCE		4		3.5			3.5			
	RED CLEARANCE			5		3.5			4		
	WALK INTERVAL	5 LPI+2			5 LPI+2			5 LPI+2			
PED. CLEARANCE		20		20			11				
MEMORY				NON-LOCK			NON-LOCK				
RECALL (VEH./PED.)		MAX/PED		OFF			OFF				
PROGRAM/COORDINATION											
CYCLE NO.	CYCLE LENGTH	OFFSET (SEC.)	PHASE SPLITS IN SECONDS							HOURS OF OPERATION	
			ø1	ø6	ø5						
1	TBD	TBD	TBD	TBD	TBD					ALL OTHER TIMES	
2	110	34	40	33	37					6:00 A.M. TO 10:00 A.M.	
3	110	6	45	42	23					3:00 P.M. TO 7:00 P.M.	
COORDINATED OPERATION											

PROGRAMMED FLASH											
3:00 A.M. TO 6:00 A.M.											
LOOP DETECTOR DATA											
IDENT.	QTY.	SIZE	SPLICE	TURNS	MODE	øCALL	øEXT.	CHNL.	CLEARANCES		TECHNICAL NOTES
D3	3	15'x5'	S/P	3	PRES	5	5	3	FROM	TO	
D4	1	15'x5'	S/P	4	PRES	5	5	3	G	G-GL R - - W DW	
D5	3	10'x6'	S/P	3	PRES	6	6	6	G-GL	- - Y - - - - -	
D6	3	10'x6'	S/P	3	PRES	6	6	7	-	- - - - -	
D7	1	10'x6'	S/P	4	PRES	6	6	6	-	- - - - -	
D8	1	10'x6'	S/P	4	PRES	6	6	7	R	- - - - -	
Ø01A	1	5'x5'	S/P	3	PRES	SYSTEM	E	9	W	- - - - - W FDW	
Ø01B	1	5'x5'	S/P	3	PRES	SYSTEM	E	10	DW	- - - - - DW	
Ø02A	1	5'x5'	S/P	3	PRES	SYSTEM	E	11			
Ø02B	1	5'x5'	S/P	3	PRES	SYSTEM	E	12			

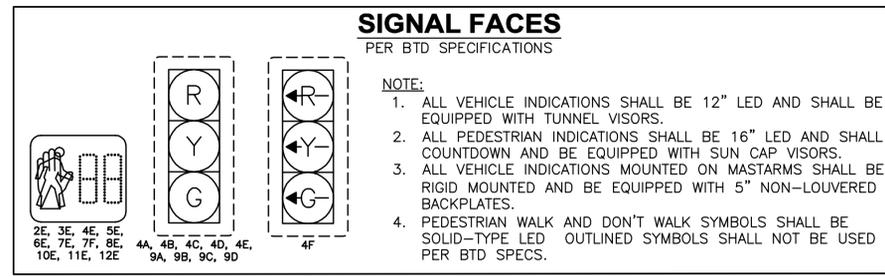
MAJOR ITEMS REQUIRED

QUANTITY	MAJOR ITEMS REQUIRED
1	BDW CONTROLLER TS-2 TYPE 2 WITH INTERNAL RCU IN TYPE 'CC' CABINET ON NEW FOUNDATION
10	8' TYPE 3C SIGNAL POST, BASE, PEDESTAL & FOUNDATION
1	25' TYPE 2 STEEL MAST ARM & FOUNDATION (BLACK)
1	30' TYPE 2 STEEL MAST ARM & FOUNDATION (BLACK)
1	35' TYPE 2 STEEL MAST ARM & FOUNDATION (BLACK)
10	12"- 3 SECTION (R,Y,G) LED VEHICLE SIGNAL INDICATION
1	12"- 3 SECTION (R,Y,G LEFT) LED VEHICLE SIGNAL INDICATION
10	16"- PEDESTRIAN L.E.D. SIGNAL COUNTDOWN INDICATION
10	PEDESTRIAN PUSHBUTTON, SIGN & SADDLE, APS 3 WIRE TYPE
4	NON-LOUVERED BACKPLATE WITH BORDER

NOTE: ALL UNDERGROUND TO BE SUBJECT TO RESPECTIVE ITEMS.
PLUS ALL MISCELLANEOUS EQUIPMENT, WIRING, CABLE AND MATERIAL NECESSARY TO PROVIDE A COMPLETE OPERATING TRAFFIC CONTROL SIGNAL PER BOSTON TRANSPORTATION DEPARTMENT STANDARDS AND LATEST SPECIFICATIONS.



S/P = SERIES/PARALLEL
 ** DENOTE BICYCLE DETECTION



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY BRYANT ASSOCIATES
 DRAWN BY A.DALLY
 CHECKED BY P.FUSCO
 APPROVED BY J.CONLEY

CIP XX-XX SHEET 77 OF 117

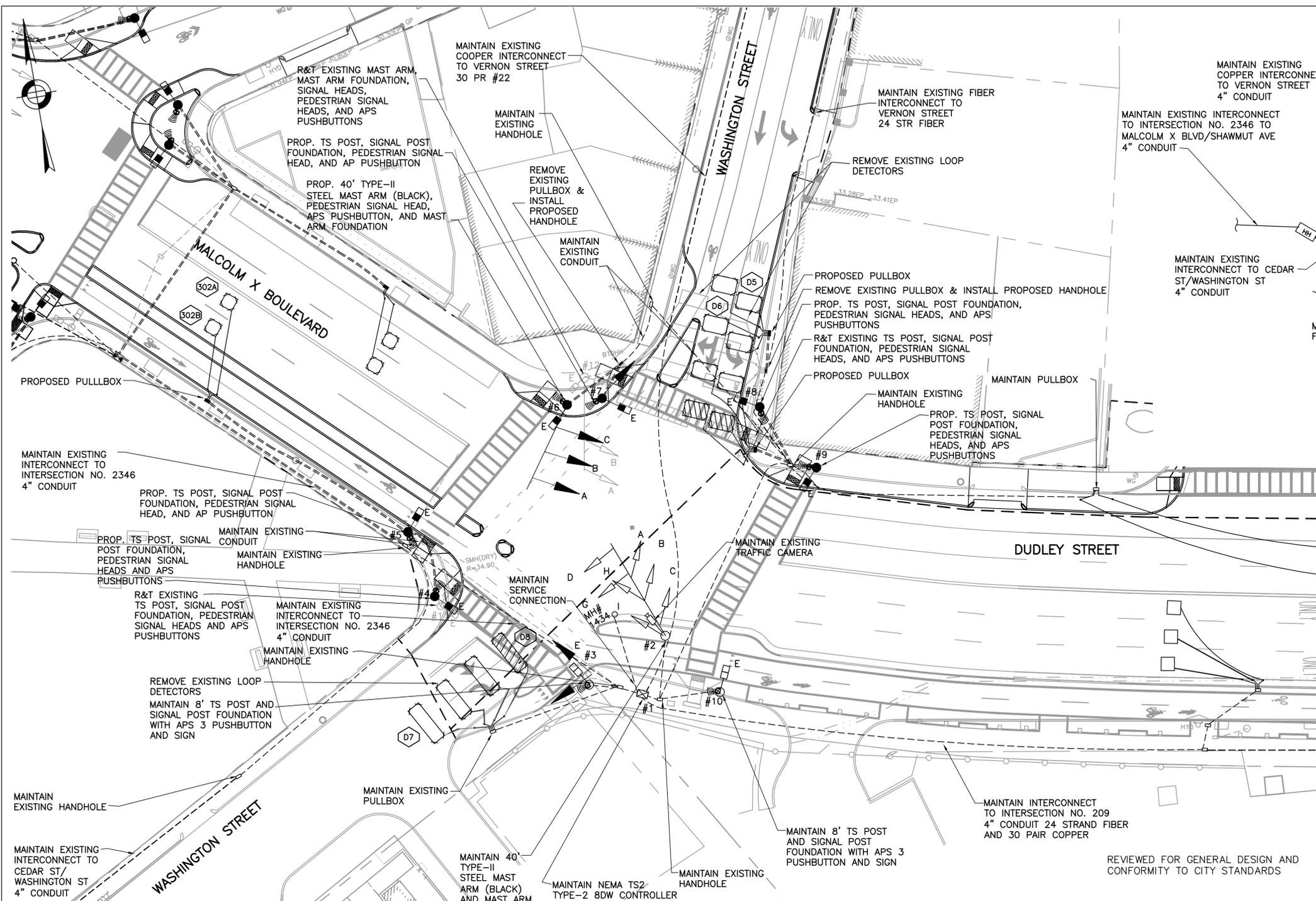
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION

DUDLEY SQUARE PHASE 2 TRAFFIC SIGNAL OPERATIONS SCHEDULE

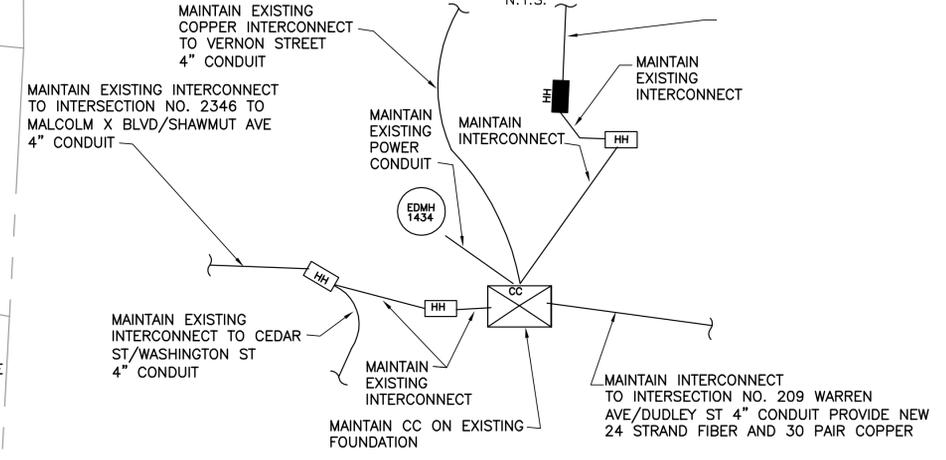
MALCOLM X BLVD & ROXBURY STREET
 ROXBURY
 INTERSECTION #2346

SCALE: N.T.S. AREA: 1
 DISTRICT: 10 DATE: FEB. 7, 2019

CITY ENGINEER



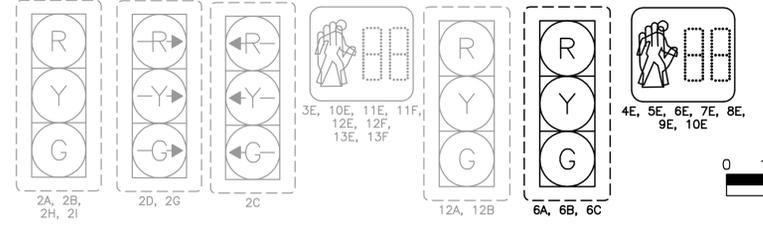
INTERCONNECT DIAGRAM



NOTES:

1. REMOVE AND TRANSPORT EXISTING TRAFFIC SIGNAL EQUIPMENT AS DIRECTED ON PLAN
2. REMOVE AND DESTROY EXISTING TRAFFIC SIGNAL FOUNDATIONS AS DIRECTED ON PLAN
3. MAINTAIN ALL EXISTING TRAFFIC EQUIPMENT INSTALLED IN PHASE 1
4. MAINTAIN ALL EXISTING TRAFFIC SIGNAL FOUNDATIONS INSTALLED IN PHASE 1
5. SEE SHEET 34 AND 35 FOR PAVEMENT MARKING AND SIGNAGE PLAN
6. THIS PLAN REPRESENTS INTERCONNECT FROM JUNE 2016 PLANS FROM THE BOSTON TRANSPORTATION DEPARTMENT.
7. MAINTAIN EXISTING INTERCONNECT TO ADJACENT INTERSECTIONS THROUGHOUT CONSTRUCTION
8. INSTALL AND TEST PROPOSED INTERCONNECT PRIOR TO DEACTIVATION AND REMOVAL OF EXISTING INTERCONNECT
9. ALL VEHICULAR INDICATIONS MOUNTED ON MASTARMS FACING EAST-WEST SHALL BE RIGID MOUNTED AND BE EQUIPPED WITH 5" NON-LOUVERED BACKPLATES WITH BORDERS.
10. ALL CONDUIT WITHIN ROADWAY SHALL BE 3" PVC SCHEDULE 80 AND ALL CONDUIT OUTSIDE OF THE ROADWAY SHALL BE 3" PVC SCHEDULE 40 UNLESS OTHERWISE NOTED.

SIGNAL FACES



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT	
SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	A. DALLY
CHECKED BY	P. FUSCO
APPROVED BY	J. CONLEY



CIP XX-XX SHEET 78 OF 117

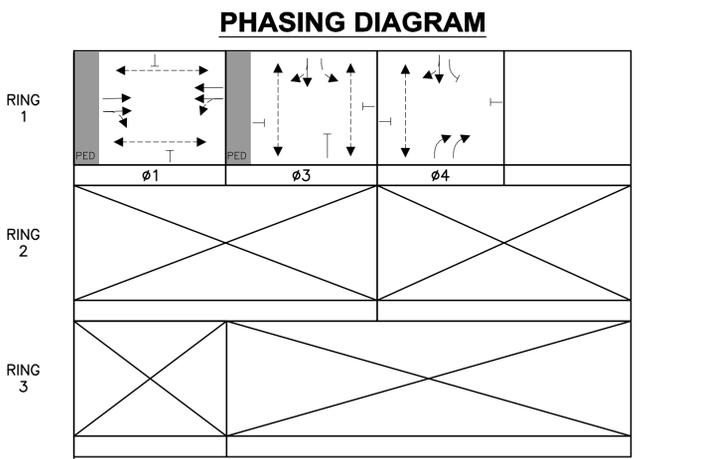
CITY OF BOSTON PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION HIGHWAY RECONSTRUCTION		
DUDLEY SQUARE PHASE 2 TRAFFIC SIGNAL PLAN		
DUDLEY STREET & WASHINGTON STREET ROXBURY		
SCALE: 1" = 20'	INTERSECTION #210	AREA: 1
DISTRICT: 10		DATE: FEB. 7, 2019
CITY ENGINEER		

R-XXXX-78

TIMING AND SEQUENCE CHART											
STREET/DIRECTION/FACE	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL		
MALCOLM X EB/2H,2I	G	Y	R	R	R	R	R	R	R		
DUDLEY ST WB/6A,6B,6C	G	Y	R	R	R	R	R	R	R		
WASH ST NB/2D,2G	RR	RR	RR	RR	RR	RR	GR	YR	RR		
WASH ST SB/2A,2B	R	R	R	G	G	G	G	Y	R		
WASH ST LT/SB/2C	RL	RL	RL	GL	YL	RL	RL	RL	RL		
C.W./N-S/5E-6E	DW	DW	DW	W/FDW	DW	DW	W/FDW	DW	DW		
C.W./N-S/9E-10E	DW	DW	DW	DW	DW	DW	DW	DW	DW		
C.W./E-W/7E-8E	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW		
C.W./E-W/3E-4E	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW		
INTERSECTIONS	MINIMUM GREEN	8		6			8				
	VEHICLE EXTENSION	2		2			2				
	MAXIMUM 1 GREEN	34		16			31				
	MAXIMUM 2 GREEN	37		26			18				
	YELLOW CLEARANCE		4		3.5			4			
	RED CLEARANCE			3.5		2.5			2.5		
	WALK INTERVAL	5 LPI+2			5 LPI+2			5 LPI+2			
PED. CLEARANCE	12			23			23				
MEMORY	-			NON-LOCK			NON-LOCK				
RECALL (VEH./PED.)	MAX/PED			OFF			OFF				
PROGRAM/COORDINATION											
CYCLE NO.	PATTERN	CYCLE LENGTH	OFFSET (SEC.)	PHASE SPLITS IN SECONDS							
				ø1	ø3	ø4	HOURS OF OPERATION				
1	10	110	0	30	18	26	ALL OTHER TIMES				
2	3	110	20	46	27	37	6:00 A.M. TO 10:00 A.M.				
3	12	110	3	49	37	24	3:00 P.M. TO 7:00 P.M.				
COORDINATED OPERATION							EVERYDAY				
PROGRAMMED FLASH							3:00 A.M. TO 6:00 A.M.				
LOOP DETECTOR DATA									CLEARANCES		TECHNICAL NOTES
IDENT.	QTY.	SIZE	SPLICE	TURNS	MODE	øCALL	øEXT.	CHNL.	FROM	TO	
Ø5	3	9'x6'	S/P	3	PRES	3	3	3	G	G - GL	R - W - DW
Ø6	1	9'x6'	S/P	3	PRES	3,4	3	4	GL	-	Y - - - -
Ø7	3	15.5'x6'	S/P	3	PRES	4	4	5	GR	-	YL - - - -
Ø8	1	15.5'x6'	S/P	3	PRES	4	4	6	GR	-	YR - - - -
Ø01A	1	5'x5'	S/P	3	PRES	SYSTEM	E	9	R	-	- - - -
Ø01B	1	5'x5'	S/P	3	PRES	SYSTEM	E	10	R	-	- - - -
Ø02A	1	5'x5'	S/P	3	PRES	SYSTEM	E	11	W	-	- - - - W - FDW
Ø02B	1	5'x5'	S/P	3	PRES	SYSTEM	E	12	DW	-	- - - - DW
1. ALL PED PUSHBUTTONS SHALL BE WIRED TO CALL ø2 PED CROSSINGS 2. MAXIMUM 1 GREEN SHALL BE USED FOR "ALL OTHER TIMES" 3. ALL DETECTOR LOOPS TO BE SERIES PARALLEL 4. FIRST LOOP IN SERIES TO BE BICYCLE DETECTION IN ACCORDANCE WITH MASSDOT STANDARDS.											

QUANTITY	MAJOR ITEMS REQUIRED
1	8DW CONTROLLER TS2 TYPE 2 IN TYPE CC CABINET ON NEW FOUNDATION
3	8' TYPE 3C SIGNAL POST, BASE, PEDESTAL & FOUNDATION
1	35' TYPE 2 STEEL MAST ARM & FOUNDATION (BLACK)
1	45' TYPE 2 STEEL MAST ARM & FOUNDATION (BLACK)
3	12"- 3 SECTION (R,Y,G) LED VEHICLE SIGNAL INDICATION
4	12"- 3 SECTION (R,Y,G) LED VEHICLE SIGNAL INDICATION
2	12"- 3 SECTION (RR,YR,GR RIGHT) LED VEHICLE SIGNAL INDICATION
1	12"- 3 SECTION (RL,YL,GL LEFT) LED VEHICLE SIGNAL INDICATION
6	16"- PEDESTRIAN L.E.D. SIGNAL COUNTDOWN INDICATION
6	PEDESTRIAN PUSHBUTTON, SIGN & SADDLE, APS 3 WIRE TYPE
2	16"- PEDESTRIAN L.E.D. SIGNAL COUNTDOWN INDICATION
2	PEDESTRIAN PUSHBUTTON, SIGN & SADDLE, APS 3 WIRE TYPE
3	NON-LOUVERED BACKPLATE WITH BORDERS
7	NON-LOUVERED BACKPLATE WITH BORDERS

NOTE: ALL UNDERGROUND TO BE SUBJECT TO RESPECTIVE ITEMS.
PLUS ALL MISCELLANEOUS EQUIPMENT, WIRING, CABLE AND MATERIAL NECESSARY TO PROVIDE A COMPLETE OPERATING TRAFFIC CONTROL SIGNAL PER BOSTON TRANSPORTATION DEPARTMENT STANDARDS AND LATEST SPECIFICATIONS.

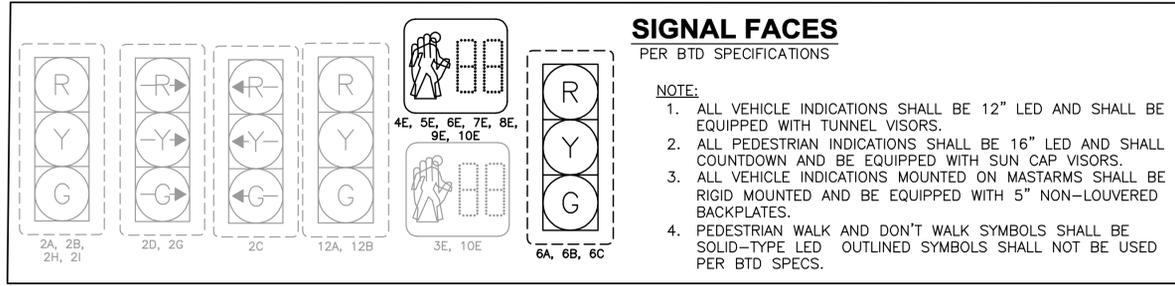


** DENOTE BICYCLE DETECTION

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

CIP XX-XX SHEET 79 OF 117

R-XXXX-79



BOSTON TRANSPORTATION DEPARTMENT

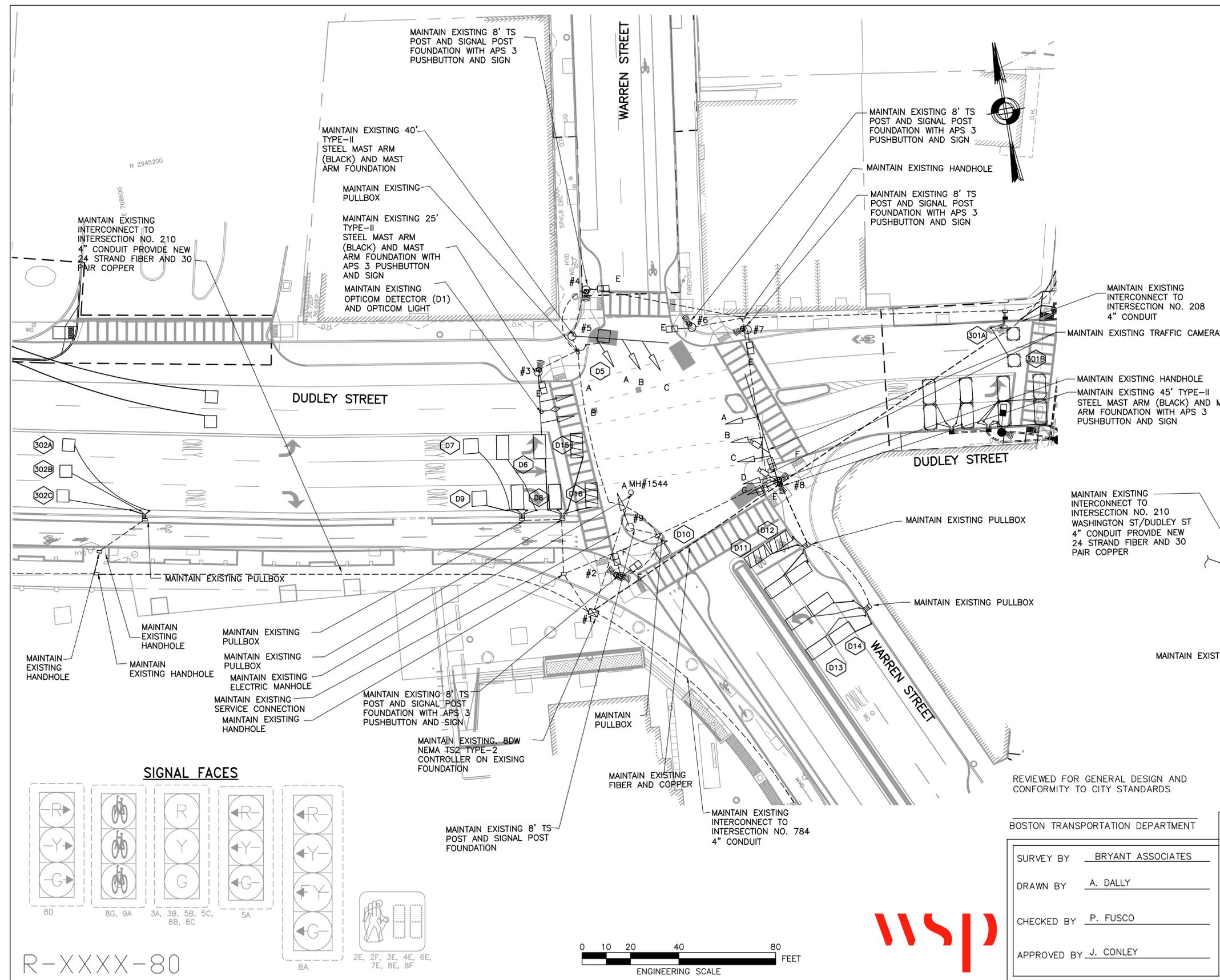
SURVEY BY: BRYANT ASSOCIATES
DRAWN BY: A.DALLY
CHECKED BY: P.FUSCO
APPROVED BY: J.CONLEY

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
TRAFFIC SIGNAL OPERATIONS SCHEDULE
DUDLEY STREET & WASHINGTON STREET
ROXBURY
INTERSECTION #210

SCALE: N.T.S.
DISTRICT: 10

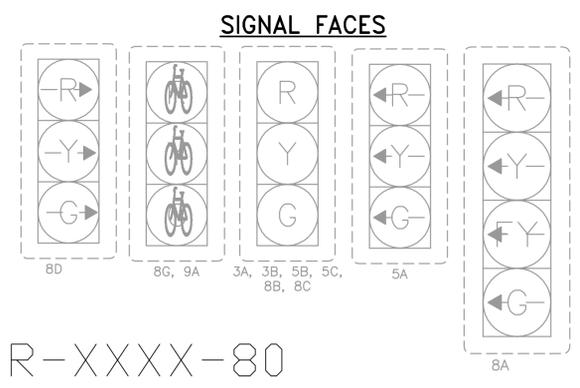
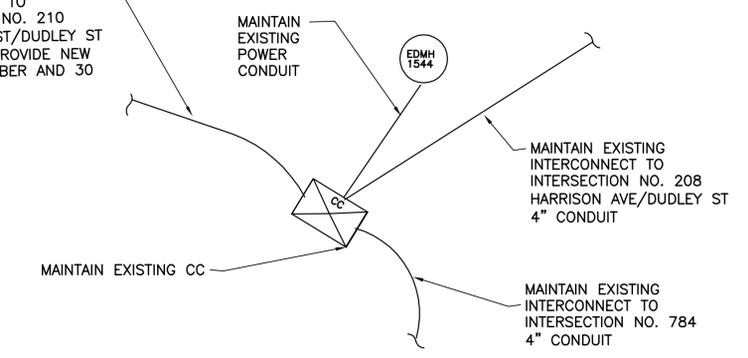
AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER



- NOTES:**
1. MAINTAIN AT ALL EXISTING TRAFFIC SIGNAL EQUIPMENT INSTALLED IN PHASE 1
 2. MAINTAIN ALL EXISTING TRAFFIC SIGNAL FOUNDATIONS INSTALLED IN PHASE 1
 3. SEE SHEET 34 AND 35 FOR PAVEMENT MARKING AND SIGNAGE PLAN
 4. THIS PLAN REPRESENTS INTERCONNECT FROM JUNE 2016 PLANS FROM THE BOSTON TRANSPORTATION DEPARTMENT
 5. MAINTAIN EXISTING INTERCONNECT TO ADJACENT INTERSECTIONS THROUGHOUT CONSTRUCTION
 6. INSTALL AND TEST PROPOSED INTERCONNECT PRIOR TO DEACTIVATION AND REMOVAL OF EXISTING INTERCONNECT
 7. ALL CONDUIT WITHIN ROADWAY SHALL BE 3" PVC SCHEDULE 80 AND ALL CONDUIT OUTSIDE OF THE ROADWAY SHALL BE 3" PVC SCHEDULE 40 UNLESS OTHERWISE NOTED.

INTERCONNECT DIAGRAM
N.T.S.



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	A. DALLY
CHECKED BY	P. FUSCO
APPROVED BY	J. CONLEY

CIP XX-XX SHEET 80 OF 117

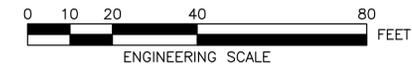
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
TRAFFIC SIGNAL PLAN**
DUDLEY STREET & WARREN STREET
ROXBURY
INTERSECTION #209

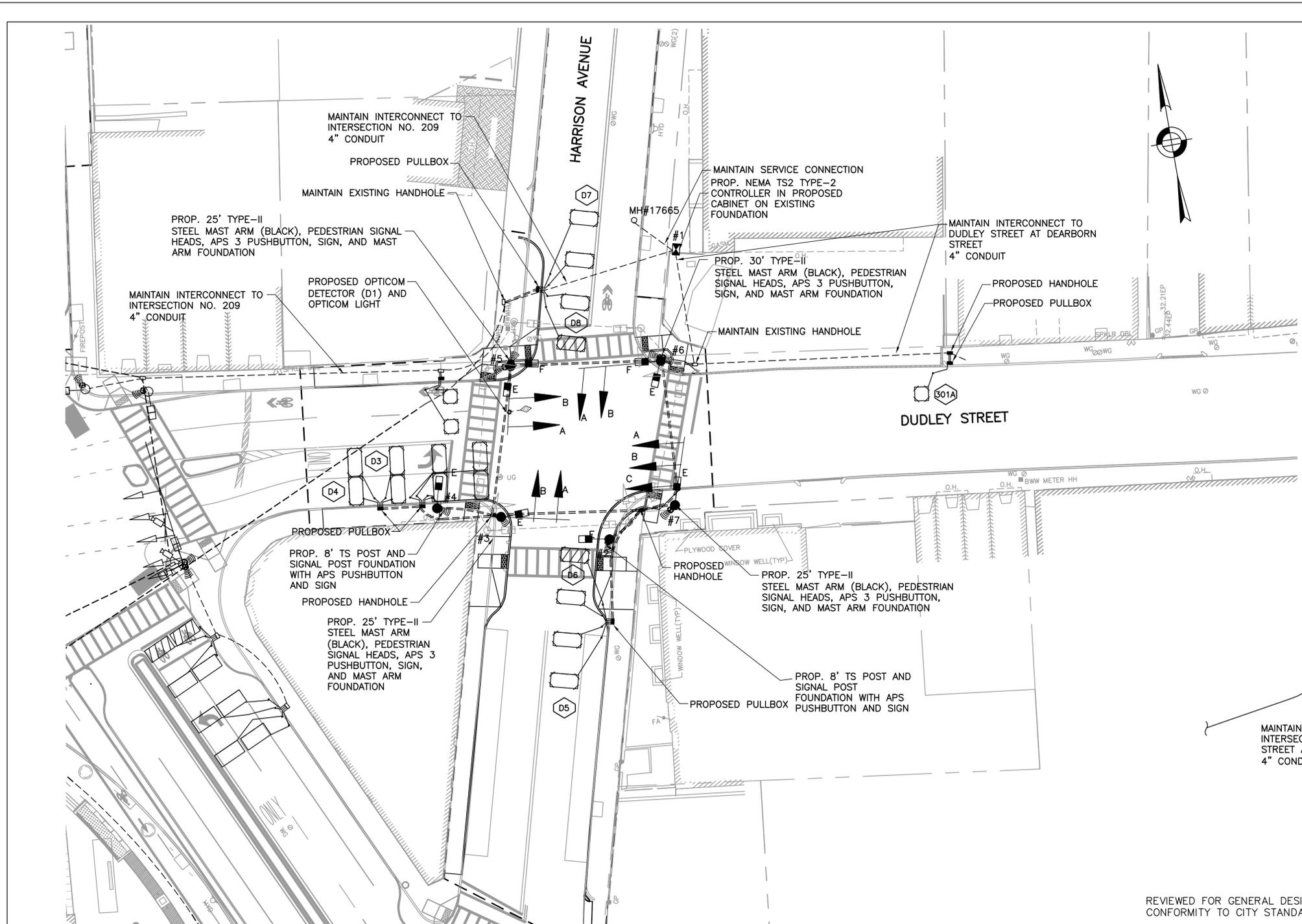
SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER



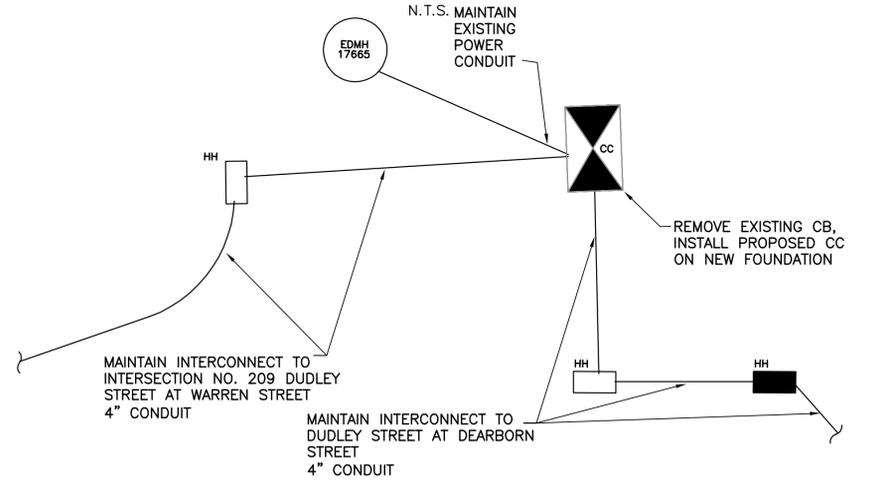
R-XXXX-80



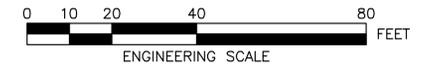
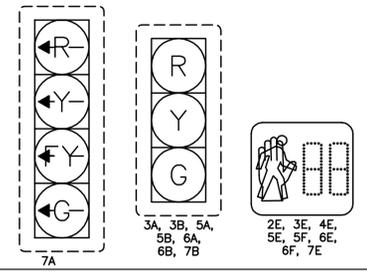
NOTES:

1. REMOVE AND TRANSPORT AT ALL EXISTING TRAFFIC SIGNAL EQUIPMENT
2. REMOVE AND DESTROY ALL EXISTING TRAFFIC SIGNAL FOUNDATIONS
3. SEE SHEET 34 AND 35 FOR PAVEMENT MARKING AND SIGNAGE PLAN
4. REMOVE AND TRANSPORT ALL EXISTING MAST ARMS, SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, APS PUSHBUTTONS, TS POSTS, AND FOUNDATIONS AT THE INTERSECTION OF WARREN STREET AT DUDLEY STREET
5. THIS PLAN REPRESENTS INTERCONNECT FROM JUNE 2016 PLANS FROM THE BOSTON TRANSPORTATION DEPARTMENT
6. MAINTAIN EXISTING INTERCONNECT TO ADJACENT INTERSECTIONS THROUGHOUT CONSTRUCTION
7. INSTALL AND TEST PROPOSED INTERCONNECT PRIOR TO DEACTIVATION AND REMOVAL OF EXISTING INTERCONNECT
8. ALL VEHICULAR INDICATIONS MOUNTED ON MASTARMS FACING EAST-WEST SHALL BE RIGID MOUNTED AND BE EQUIPPED WITH 5" NON-LOUVERED BACKPLATES WITH BORDERS
9. ALL CONDUIT WITHIN ROADWAY SHALL BE 3" PVC SCHEDULE 80 AND ALL CONDUIT OUTSIDE OF THE ROADWAY SHALL BE 3" PVC SCHEDULE 40 UNLESS OTHERWISE NOTED

INTERCONNECT DIAGRAM



SIGNAL FACES



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	A. DALLY
CHECKED BY	P. FUSCO
APPROVED BY	J. CONLEY

CIP XX-XX SHEET 82 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
TRAFFIC SIGNAL PLAN
 DUDLEY STREET & HARRISON AVENUE
 ROXBURY
 INTERSECTION #206

SCALE: 1" = 20'
 DISTRICT: 10

AREA: 1
 DATE: FEB. 7, 2019

CITY ENGINEER

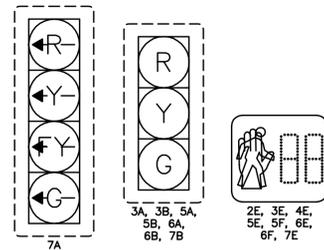


R-XXXX-82

		TIMING AND SEQUENCE CHART															OPERATION FLASHING		
		ø1			ø2			ø4			ø6			PRE-EMPTION					
STREET/DIRECTION/FACE		GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL			
DUDLEY ST LT/EB/7A		R	R	R	GL	YL	R	R	R	R	R	R	R	R	R	R			
DUDLEY ST EB/7B,7C		R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R			
DUDLEY ST WB/5A,5B		G	Y	R	R	R	R	R	R	R	R	R	R	G	Y	R			
HARRISON ST NB/6A,6B		R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R			
HARRISON ST SB/3A,3B		R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R			
C.W./N-S/4E-5E		DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW			
C.W./N-S/6E-7E		DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW			
C.W./E-W/5F-6F		W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW			
C.W./E-W/2E-3E		W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW			
INTERSECTIONS	MINIMUM GREEN	10			6			8			8			30					
	VEHICLE EXTENSION	2			2			2			2			-					
	MAXIMUM 1 GREEN	27			17			40			44			30					
	MAXIMUM 2 GREEN	31			15			38			46			30					
	YELLOW CLEARANCE		4			3			4			3			3				
	RED CLEARANCE			2			2			1.5			2			1			
	WALK INTERVAL	5 LPI+2						5 LPI+2											
PED. CLEARANCE		10						12											
MEMORY					NON-LOCK						NON-LOCK								
RECALL (VEH./PED.)		MAX/PED			MAX			MAX/PED			MAX			OFF					
PROGRAM/COORDINATION																			
CYCLE NO.	CYCLE LENGTH	OFFSET (SEC.)	PHASE SPLITS IN SECONDS												HOURS OF OPERATION				
			ø2	ø1	ø4	ø6													
1	TBD	0	TBD	TBD	TBD	TBD											ALL OTHER TIMES		
2	110	5	38	22	50	60											6:00 A.M. TO 10:00 A.M.		
3	110	18	42	20	48	62											3:00 P.M. TO 7:00 P.M.		
COORDINATED OPERATION																			

PROGRAMMED FLASH																			
3:00 A.M. TO 6:00 A.M.																			
LOOP DETECTOR DATA									CLEARANCES								TECHNICAL NOTES		
IDENT.	QTY.	SIZE	SPLICE	TURNS	MODE	øCALL	øEXT.	CHNL.	FROM	TO									
D3	4	10'x5'	S/P	3	PRES	1	1	3	G	G	G-GL	R	-	-	W	DW			
D4	4	10'x5'	S/P	3	PRES	6	1	6	G	G	-	Y	-	-	-	-			
D5	3	10'x5'	S/P	3	PRES	4	4	4	GL	-	-	YL	-	-	-	-			
D6	1	10'x5'	S/P	4	PRES	4	4	4	FYL	-	-	YL	-	-	-	-			
D7	3	10'x5'	S/P	3	PRES	4	4	5	-	-	-	-	-	-	-	-			
D8	1	10'x5'	S/P	4	PRES	4	4	5	R	-	-	-	-	-	-	-			
B01A	1	5'x5'	S/P	3	PRES	SYSTEM	E	9	W	-	-	-	-	-	W	FDW			
									DW	-	-	-	-	-	-	DW			

S/P = SERIES/PARALLEL
 ** DENOTE BICYCLE DETECTION



SIGNAL FACES
 PER BTD SPECIFICATIONS

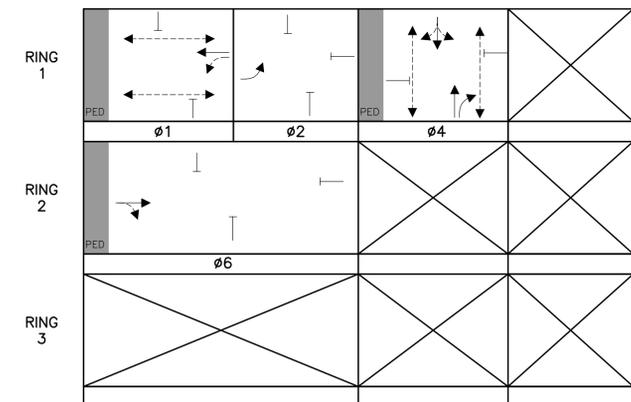
- NOTE:
- ALL VEHICLE INDICATIONS SHALL BE 12" LED AND SHALL BE EQUIPPED WITH TUNNEL VISORS.
 - ALL PEDESTRIAN INDICATIONS SHALL BE 16" LED AND SHALL COUNTDOWN AND BE EQUIPPED WITH SUN CAP VISORS.
 - ALL VEHICLE INDICATIONS MOUNTED ON MASTARMS SHALL BE RIGID MOUNTED AND BE EQUIPPED WITH 5" NON-LOUVERED BACKPLATES.
 - PEDESTRIAN WALK AND DON'T WALK SYMBOLS SHALL BE SOLID-TYPE LED OUTLINED SYMBOLS SHALL NOT BE USED PER BTD SPECS.
 - FLASHING YELLOW ARROW PROPOSED PER MASSDOT DIRECTIVES, BUT OTHER PROTECTED/PERMISSIVE SIGNAL HEADS CAN BE UTILIZED

MAJOR ITEMS REQUIRED

QUANTITY	MAJOR ITEMS REQUIRED
1	8DW CONTROLLER TS-2 TYPE 2 WITH INTERNAL RCU IN TYPE 'CC' CABINET ON NEW FOUNDATION
2	8' TYPE 3C SIGNAL POST, BASE, PEDESTAL & FOUNDATION
3	25' TYPE 2 STEEL MAST ARM & FOUNDATION
1	30' TYPE 2 STEEL MAST ARM & FOUNDATION
7	12"- 3 SECTION (R,Y,G) LED VEHICLE SIGNAL INDICATION
1	12"- 4 SECTION (RL,YL,FYL,G) LED VEHICLE SIGNAL INDICATION
8	16"- PEDESTRIAN LED SIGNAL COUNTDOWN INDICATION
8	PEDESTRIAN PUSHBUTTON, SIGN & SADDLE, APS 3 WIRE TYPE
5	NON-LOUVERED BACKPLATES WITH BORDERS

NOTE: ALL UNDERGROUND TO BE SUBJECT TO RESPECTIVE ITEMS. PLUS ALL MISCELLANEOUS EQUIPMENT, WIRING, CABLE AND MATERIAL NECESSARY TO PROVIDE A COMPLETE OPERATING TRAFFIC CONTROL SIGNAL PER BOSTON TRANSPORTATION DEPARTMENT STANDARDS AND LATEST SPECIFICATIONS.

PHASING DIAGRAM



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY A.DALLY

CHECKED BY P.FUSCO

APPROVED BY J.CONLEY

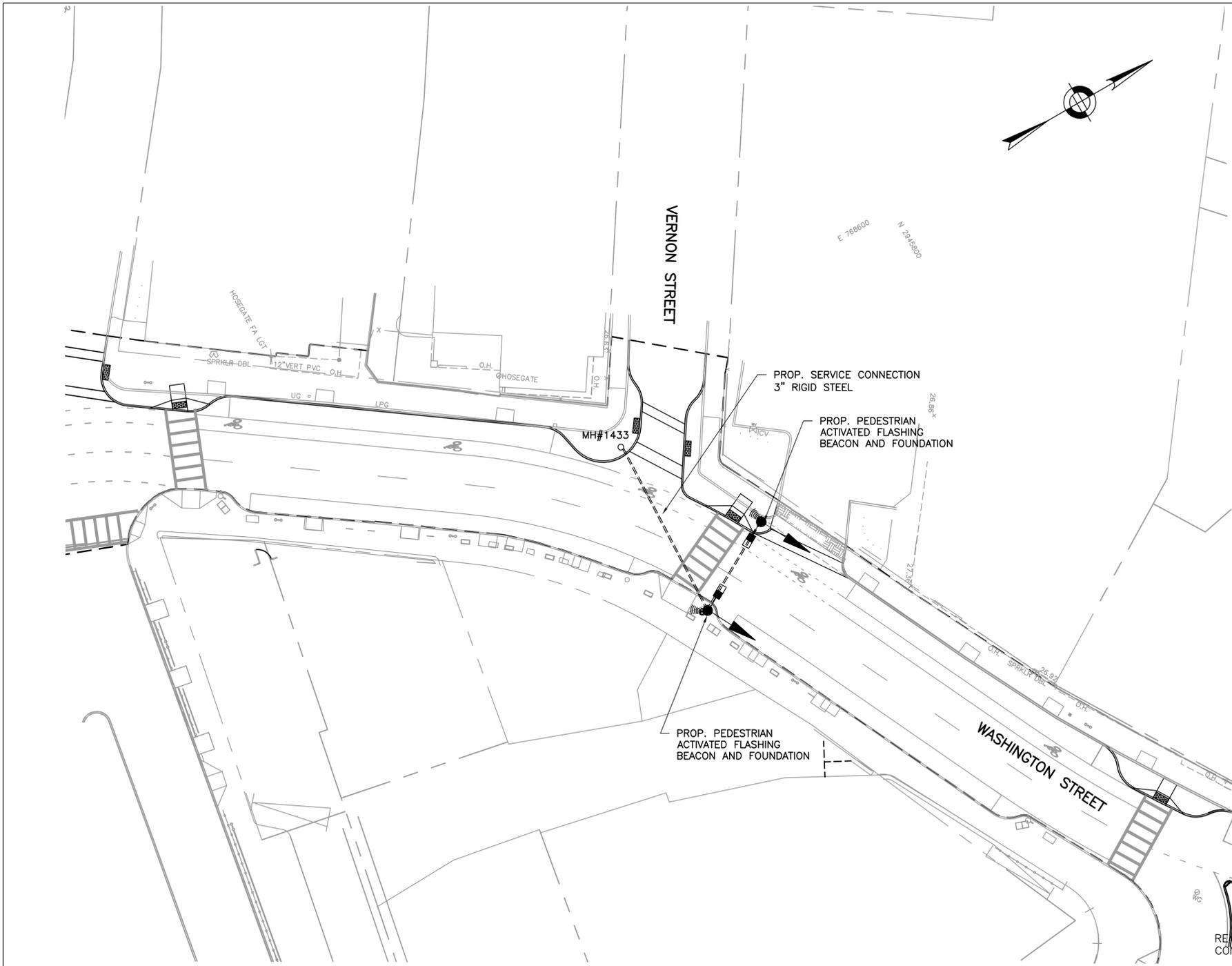


CIP XX-XX SHEET 83 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
TRAFFIC SIGNAL OPERATIONS SCHEDULE
 DUDLEY STREET & HARRISON AVENUE
 ROXBURY
 INTERSECTION #206

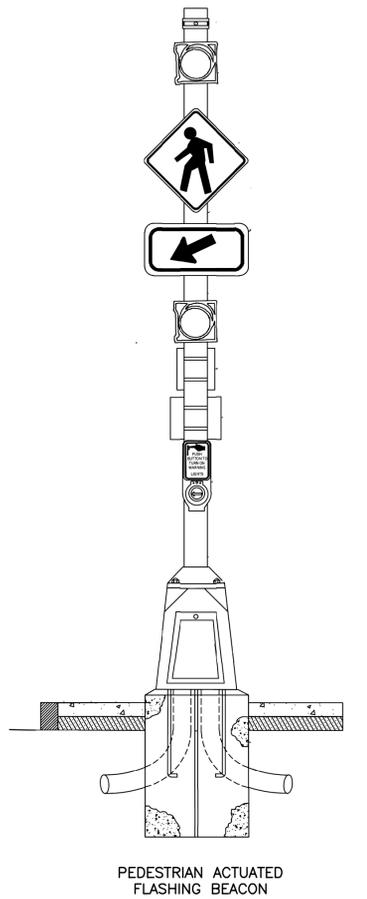
SCALE: N.T.S. AREA: 1
 DISTRICT: 10 DATE: FEB. 7, 2019

CITY ENGINEER



- NOTES:**
1. REMOVE AND STACK ALL EXISTING TRAFFIC SIGNAL EQUIPMENT
 2. REMOVE AND DESTROY ALL EXISTING TRAFFIC SIGNAL FOUNDATIONS
 3. SEE SHEET 64 AND 70 FOR PAVEMENT MARKING AND SIGNAGE PLAN

SIGNAL FACES



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

CIP XX-XX SHEET 84 OF 117

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY A. DALLY

CHECKED BY P. FUSCO

APPROVED BY J. CONLEY

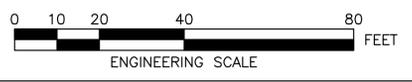
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
TRAFFIC SIGNAL PLAN
 WASHINGTON STREET & VERNON STREET
 ROXBURY
 INTERSECTION #1970

SCALE: 1" = 20'
 DISTRICT: 10

AREA: 1
 DATE: FEB. 7, 2019

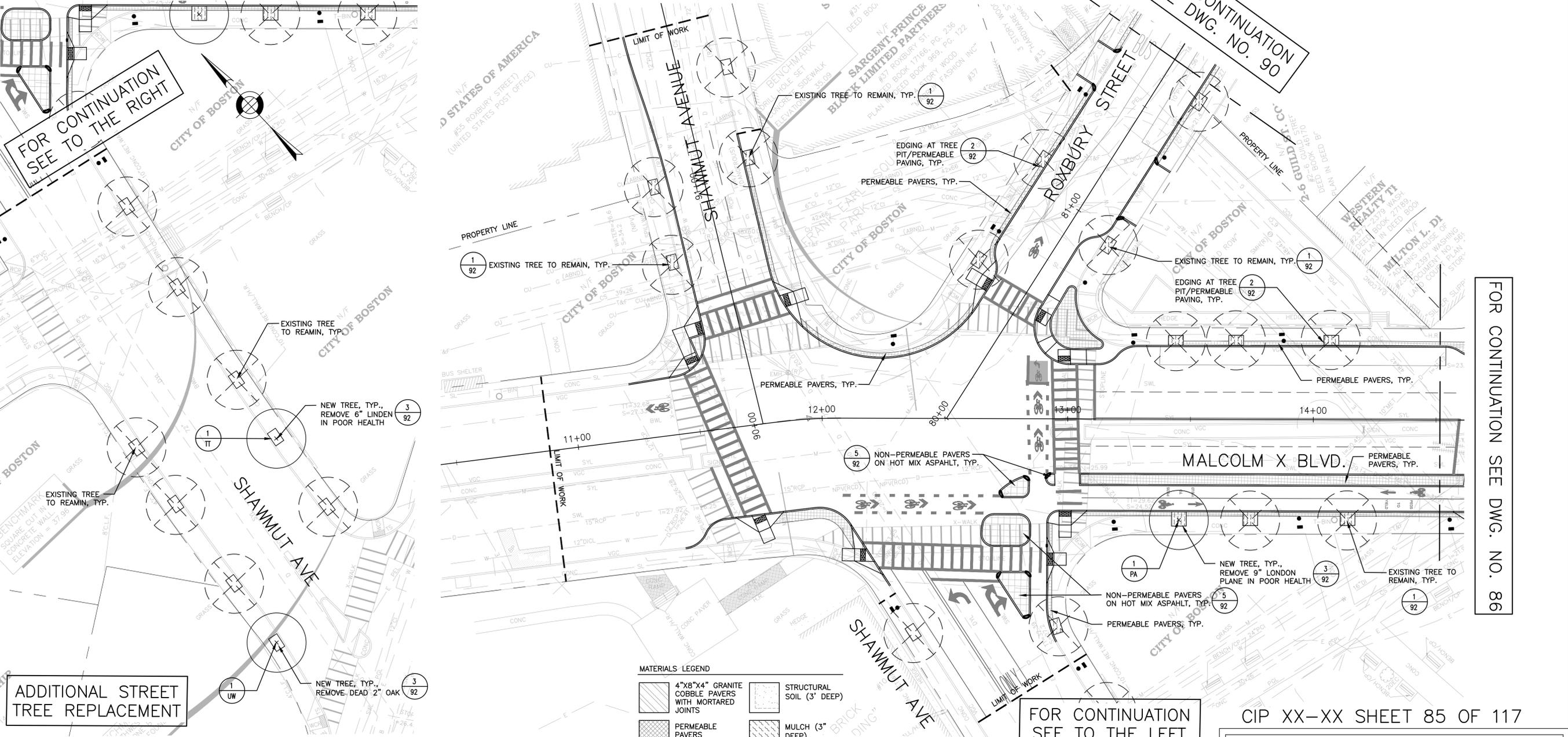
 CITY ENGINEER

R-XXXX-84



PLANT LIST

QTY	SYM	BOTANICAL NAME	COMMON NAME	COMMENTS
TREES				
1	PA	PLATANUS ACERIFOLIA 'BLOODGOOD'	BLOODGOOD LONDONPLANE	3"-3 1/2" CAL., B&B, SPECIMEN, CENTRAL LEADER, MATCHED, 6' CLEAR TRUNK
1	TT	TILIA TOMENTOSA 'GREEN MOUNTAIN'	GREEN MOUNTAIN SILVER LINDEN	3"-3 1/2" CAL., B&B, SPECIMEN, CENTRAL LEADER, MATCHED, 6' CLEAR TRUNK
1	UW	ULMUS WILSONIANA	PROSPECTOR ELM	3"-3 1/2" CAL., B&B, SPECIMEN, CENTRAL LEADER, MATCHED, 6' CLEAR TRUNK



ADDITIONAL STREET TREE REPLACEMENT

PLANTING NOTES

1. ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY "THE AMERICAN STANDARD FOR NURSERY STOCK," PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
2. FOR TREE PLANTINGS, THE DEPTH OF PLANT MIX SHALL BE EQUAL TO THE DEPTH OF THE PLANT MATERIAL'S ROOTBALL. ROOTBALL DEPTHS SHALL MEET THE ANSI Z60.1 GUIDELINES (CURRENT RELEASE) FOR NURSERY STOCK.
3. ALL PLANTS TO BE APPROVED BY THE PROJECT LANDSCAPE ARCHITECT PRIOR TO ARRIVAL AT THE SITE.
4. STAKE LOCATION OF ALL PROPOSED PLANT MATERIAL FOR THE APPROVAL OF THE PROJECT LANDSCAPE ARCHITECT PRIOR TO THE BEGINNING OF PLANTING.
5. PROPOSED STREET TREE BRANCHES ADJACENT TO THE CYCLE TRACK SHALL BE TRIMMED TO PROVIDE A MINIMUM OF 8' OF VERTICAL CLEARANCE ABOVE THE CYCLE TRACK.

MATERIALS LEGEND

	4"x8"x4" GRANITE COBBLE PAVERS WITH MORTARED JOINTS		STRUCTURAL SOIL (3' DEEP)
	PERMEABLE PAVERS		MULCH (3' DEEP)
	PAVERS ON HOT MIX ASPHALT		PROPERTY LINE
	LIMIT OF WORK		PROPOSED TREE
			EXISTING TREE TO REMAIN

0 10 20 40 80 FEET
ENGINEERING SCALE



FOR CONTINUATION SEE TO THE LEFT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY M. CANTU

CHECKED BY S. SANGER

APPROVED BY J. COPLEY

CIP XX-XX SHEET 85 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
LANDSCAPE PLAN**
ROXBURY

SCALE: AS NOTED
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

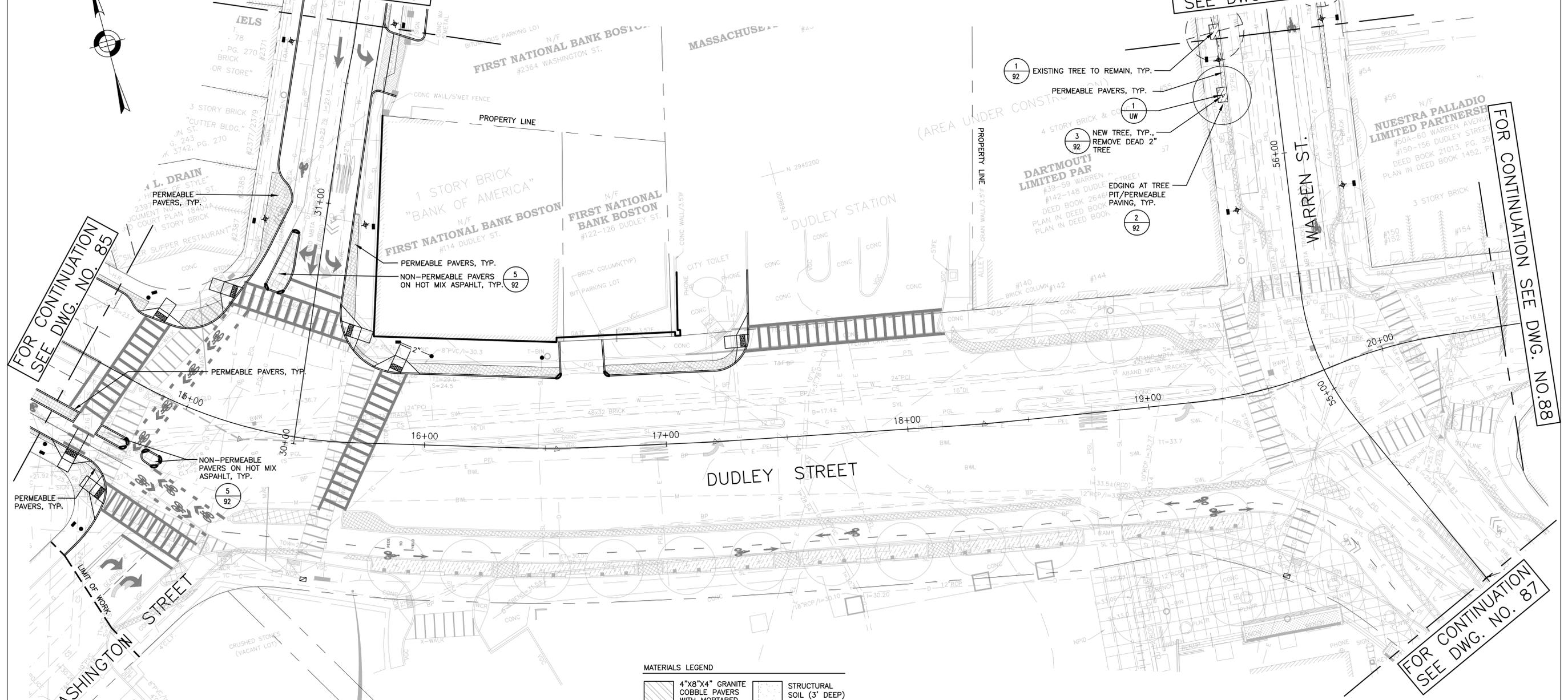
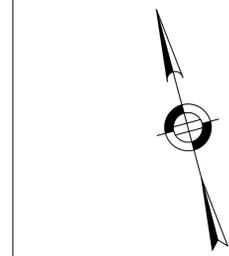
CITY ENGINEER

PLANT LIST

QTY	SYM	BOTANICAL NAME	COMMON NAME	COMMENTS
TREES				
1	UW	ULMUS WILSONIANA 'PROSPECTOR'	PROSPECTOR ELM	3"-3 1/4" CAL., B&B, SPECIMEN, CENTRAL LEADER, MATCHED, 6' CLEAR TRUNK

FOR CONTINUATION
SEE DWG. NO. 90

FOR CONTINUATION
SEE DWG. NO. 89



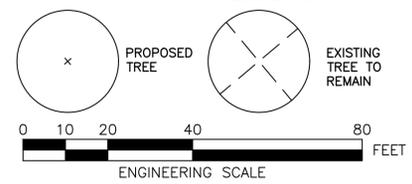
FOR CONTINUATION
SEE DWG. NO. 85

FOR CONTINUATION
SEE DWG. NO. 88

FOR CONTINUATION
SEE DWG. NO. 87

MATERIALS LEGEND

	4"x8"x4" GRANITE COBBLE PAVERS WITH MORTARED JOINTS		STRUCTURAL SOIL (3' DEEP)
	PERMEABLE PAVERS		MULCH (3" DEEP)
	PAVERS ON HOT MIX ASPHALT		PROPERTY LINE
			LIMIT OF WORK



PLANTING NOTES

- ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY "THE AMERICAN STANDARD FOR NURSERY STOCK," PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
- FOR TREE PLANTINGS, THE DEPTH OF PLANT MIX SHALL BE EQUAL TO THE DEPTH OF THE PLANT MATERIAL'S ROOTBALL. ROOTBALL DEPTHS SHALL MEET THE ANSI Z60.1 GUIDELINES (CURRENT RELEASE) FOR NURSERY STOCK.
- ALL PLANTS TO BE APPROVED BY THE PROJECT LANDSCAPE ARCHITECT PRIOR TO ARRIVAL AT THE SITE.
- STAKE LOCATION OF ALL PROPOSED PLANT MATERIAL FOR THE APPROVAL OF THE PROJECT LANDSCAPE ARCHITECT PRIOR TO THE BEGINNING OF PLANTING.
- PROPOSED STREET TREE BRANCHES ADJACENT TO THE CYCLE TRACK SHALL BE TRIMMED TO PROVIDE A MINIMUM OF 8' OF VERTICAL CLEARANCE ABOVE THE CYCLE TRACK.

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	M. CANTU
CHECKED BY	S. SANGER
APPROVED BY	J. COPLEY

CIP XX-XX SHEET 86 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
LANDSCAPE PLAN**
ROXBURY

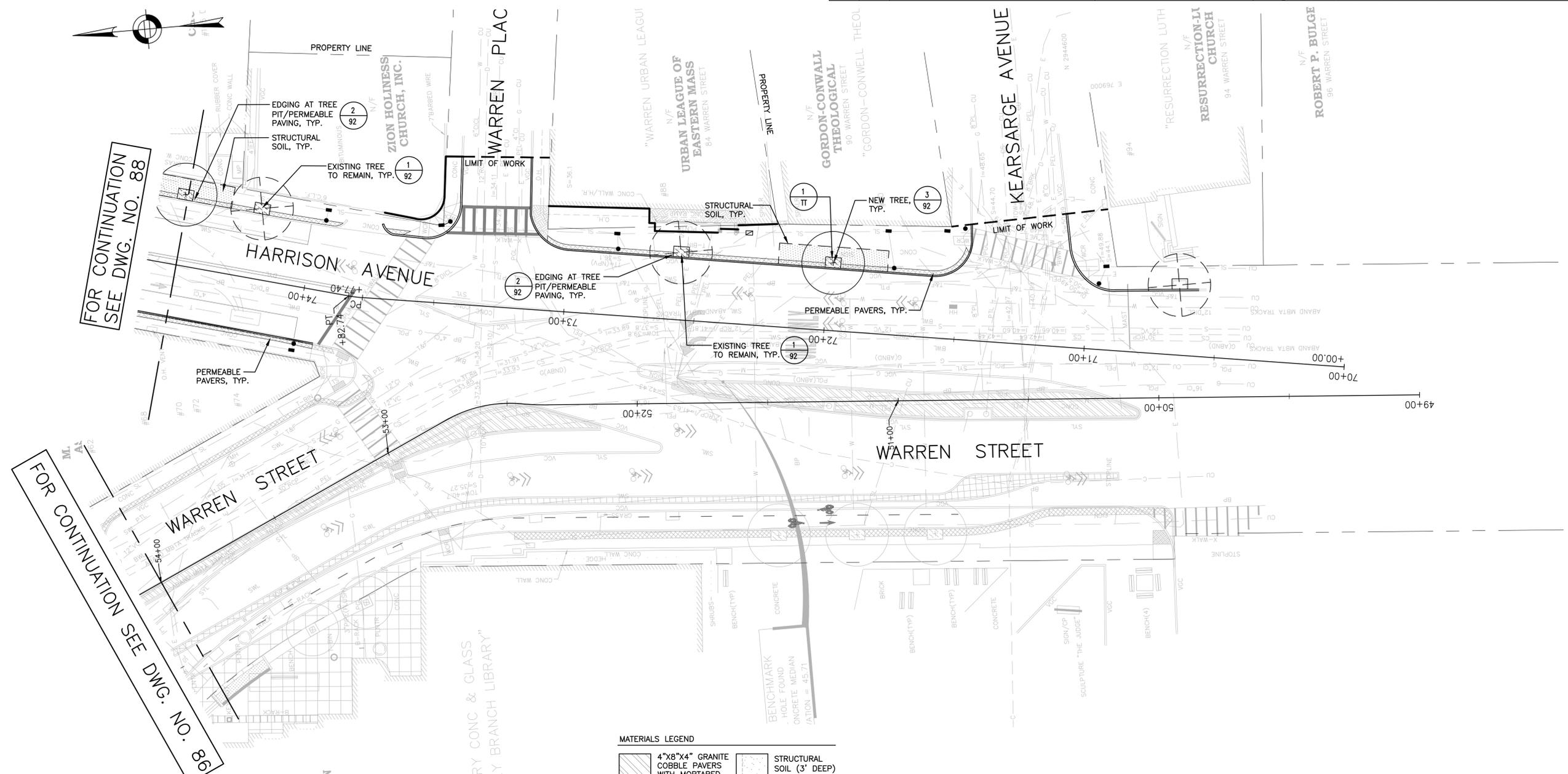
SCALE: AS NOTED
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

PLANT LIST

QTY	SYM	BOTANICAL NAME	COMMON NAME	COMMENTS
TREES				
1	TT	TILIA TOMENTOSA 'GREEN MOUNTAIN'	GREEN MOUNTAIN SILVER LINDEN	3"-3 1/2" CAL., B&B, SPECIMEN, CENTRAL LEADER, MATCHED, 6' CLEAR TRUNK

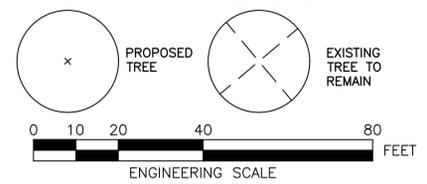


FOR CONTINUATION SEE DWG. NO. 88

FOR CONTINUATION SEE DWG. NO. 86

MATERIALS LEGEND

	4"x8"x4" GRANITE COBBLE PAVERS WITH MORTARED JOINTS		STRUCTURAL SOIL (3' DEEP)
	PERMEABLE PAVERS		MULCH (3" DEEP)
	PAVERS ON HOT MIX ASPHALT		PROPERTY LINE
	LIMIT OF WORK		PROPOSED TREE
	EXISTING TREE TO REMAIN		



SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	M. CANTU
CHECKED BY	S. SANGER
APPROVED BY	J. COPLEY

PLANTING NOTES

- ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY "THE AMERICAN STANDARD FOR NURSERY STOCK," PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
- FOR TREE PLANTINGS, THE DEPTH OF PLANT MIX SHALL BE EQUAL TO THE DEPTH OF THE PLANT MATERIAL'S ROOTBALL. ROOTBALL DEPTHS SHALL MEET THE ANSI Z60.1 GUIDELINES (CURRENT RELEASE) FOR NURSERY STOCK.
- ALL PLANTS TO BE APPROVED BY THE PROJECT LANDSCAPE ARCHITECT PRIOR TO ARRIVAL AT THE SITE.
- STAKE LOCATION OF ALL PROPOSED PLANT MATERIAL FOR THE APPROVAL OF THE PROJECT LANDSCAPE ARCHITECT PRIOR TO THE BEGINNING OF PLANTING.
- PROPOSED STREET TREE BRANCHES ADJACENT TO THE CYCLE TRACK SHALL BE TRIMMED TO PROVIDE A MINIMUM OF 8' OF VERTICAL CLEARANCE ABOVE THE CYCLE TRACK.

CIP XX-XX SHEET 87 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
 LANDSCAPE PLAN**
 ROXBURY

SCALE: AS NOTED
 DISTRICT: 10

AREA: 1
 DATE: FEB. 7, 2019

CITY ENGINEER

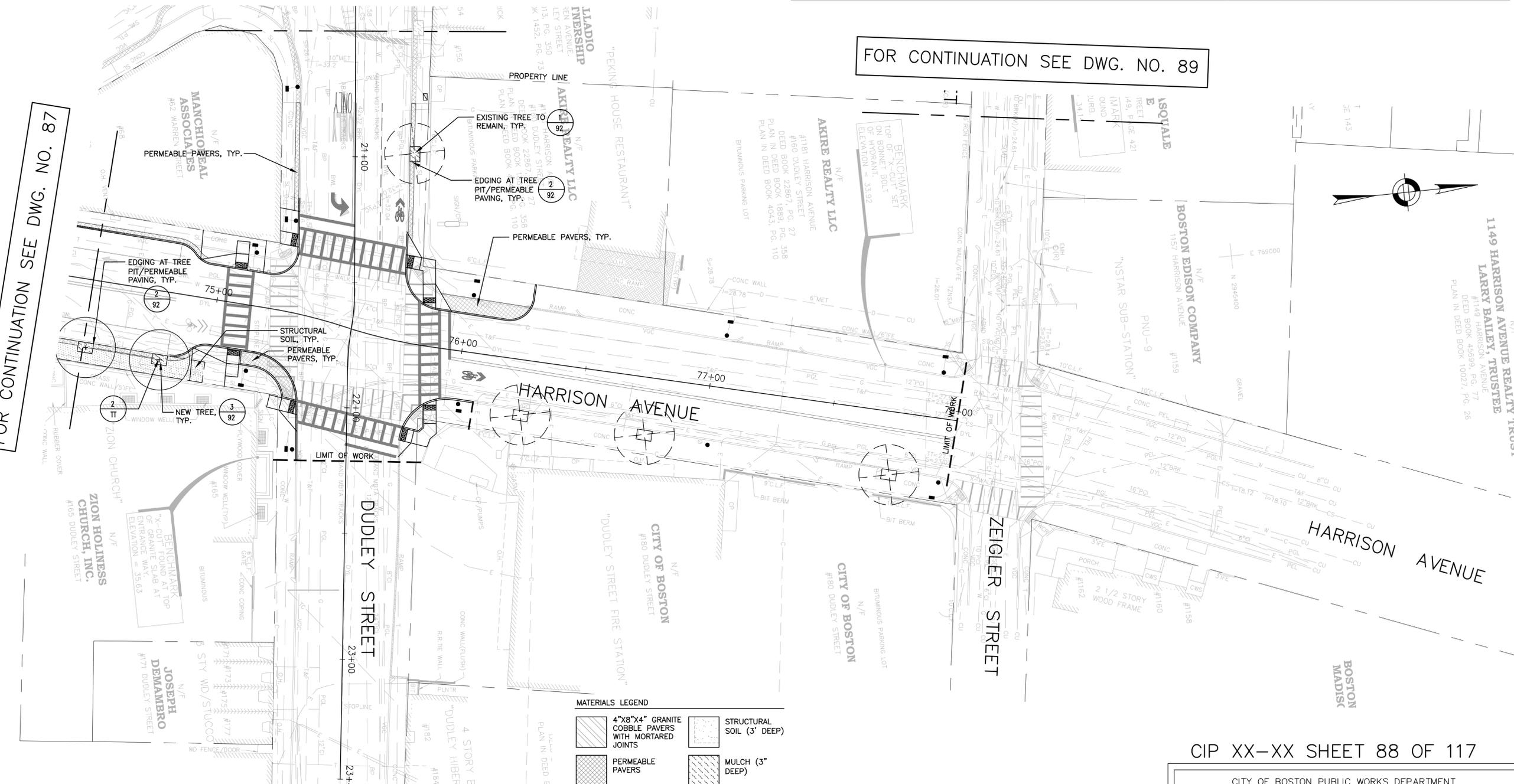
FOR CONTINUATION SEE DWG. NO. 86

PLANT LIST

QTY	SYM	BOTANICAL NAME	COMMON NAME	COMMENTS
TREES				
2	TT	TILIA TOMENTOSA 'GREEN MOUNTAIN'	GREEN MOUNTAIN SILVER LINDEN	3"-3 1/2" CAL., B&B, SPECIMEN, CENTRAL LEADER, MATCHED, 6' CLEAR TRUNK

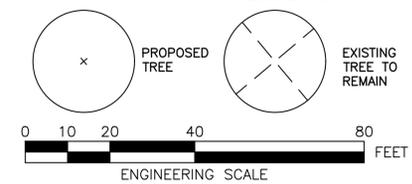
FOR CONTINUATION SEE DWG. NO. 89

FOR CONTINUATION SEE DWG. NO. 87



MATERIALS LEGEND

	4"x8"x4" GRANITE COBBLE PAVERS WITH MORTARED JOINTS		STRUCTURAL SOIL (3' DEEP)
	PERMEABLE PAVERS		MULCH (3" DEEP)
	PAVERS ON HOT MIX ASPHALT		PROPERTY LINE
	PROPOSED TREE		EXISTING TREE TO REMAIN



PLANTING NOTES

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SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	M. CANTU
CHECKED BY	S. SANGER
APPROVED BY	J. COPLEY

CIP XX-XX SHEET 88 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
LANDSCAPE PLAN**
ROXBURY

SCALE: AS NOTED
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

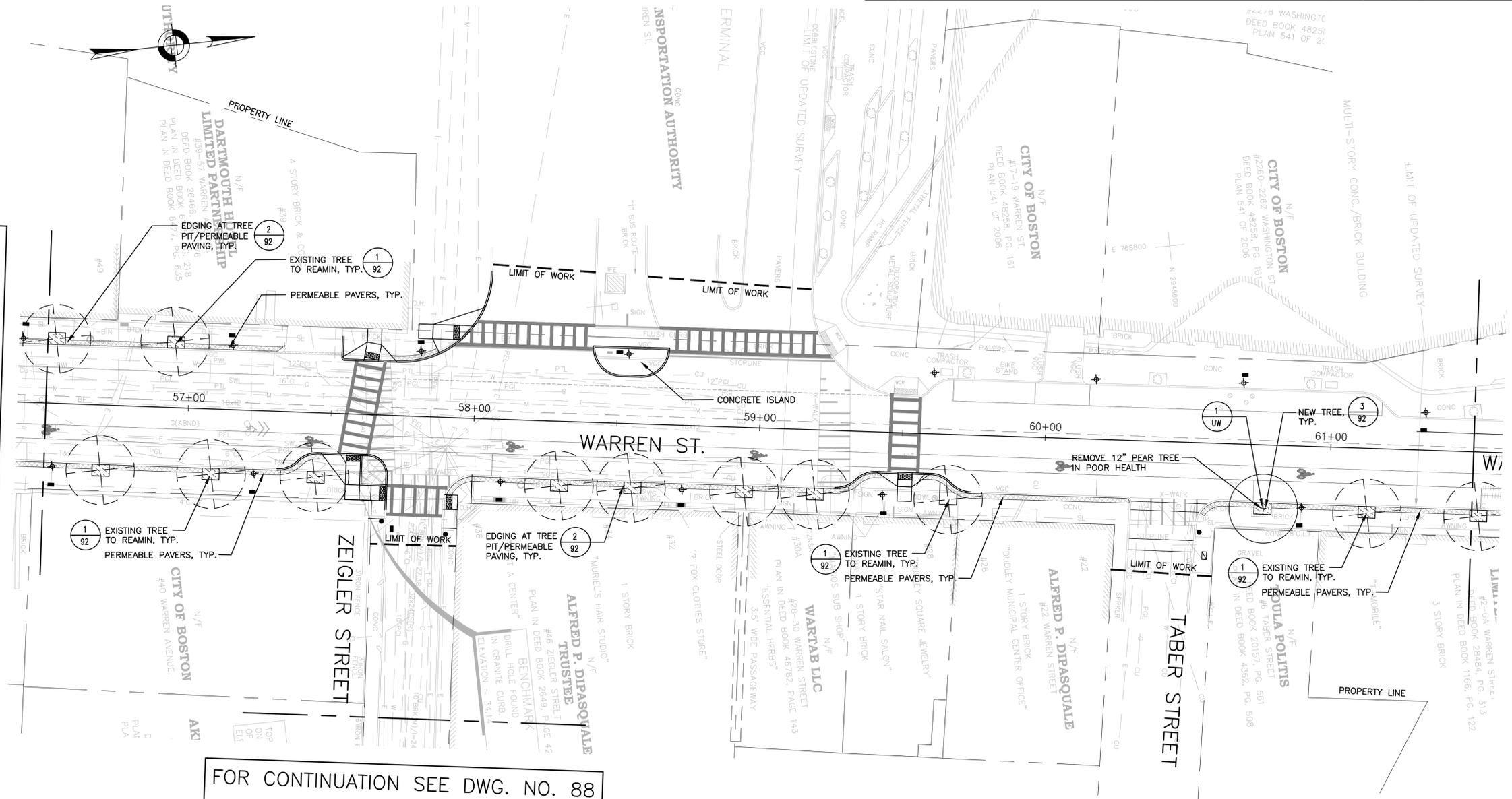
CITY ENGINEER

PLANT LIST

QTY	SYM	BOTANICAL NAME	COMMON NAME	COMMENTS
TREES				
1	UW	ULMUS WILSONIANA 'PROSPECTOR'	PROSPECTOR ELM	3"-3 1/2" CAL., B&B, SPECIMEN, CENTRAL LEADER, MATCHED, 6' CLEAR TRUNK

FOR CONTINUATION SEE DWG. NO. 86

FOR CONTINUATION SEE DWG. NO. 91



FOR CONTINUATION SEE DWG. NO. 88

MATERIALS LEGEND

	4"x8"x4" GRANITE COBBLE PAVERS WITH MORTARED JOINTS		STRUCTURAL SOIL (3' DEEP)
	PERMEABLE PAVERS		MULCH (3" DEEP)
	PAVERS ON HOT MIX ASPHALT		PROPERTY LINE
	LIMIT OF WORK		PROPOSED TREE
	EXISTING TREE TO REMAIN		

0 10 20 40 80 FEET
ENGINEERING SCALE

PLANTING NOTES

- ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY "THE AMERICAN STANDARD FOR NURSERY STOCK," PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
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SURVEY BY BRYANT ASSOCIATES

DRAWN BY M. CANTU

CHECKED BY S. SANGER

APPROVED BY J. COPLEY

CIP XX-XX SHEET 89 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
LANDSCAPE PLAN**
ROXBURY

SCALE: AS NOTED
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

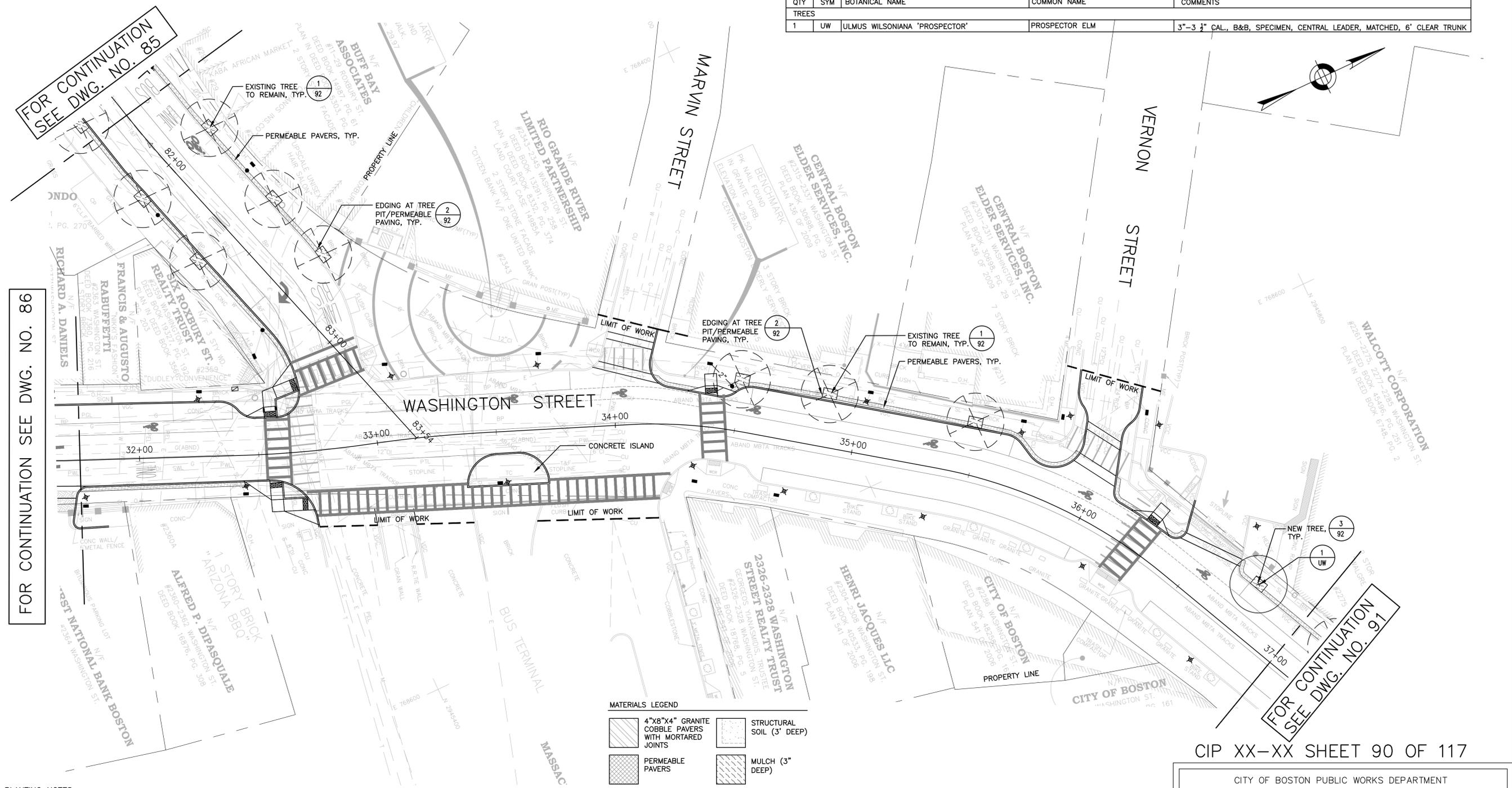
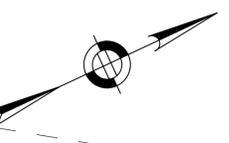
CITY ENGINEER

PLANT LIST

QTY	SYM	BOTANICAL NAME	COMMON NAME	COMMENTS
TREES				
1	UW	ULMUS WILSONIANA 'PROSPECTOR'	PROSPECTOR ELM	3"-3 1/2" CAL., B&B, SPECIMEN, CENTRAL LEADER, MATCHED, 6' CLEAR TRUNK

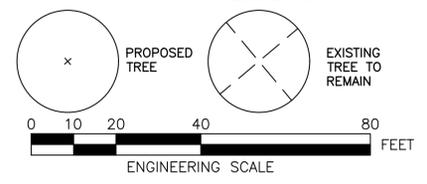
FOR CONTINUATION
SEE DWG. NO. 85

FOR CONTINUATION SEE DWG. NO. 86



MATERIALS LEGEND

- 4"x8"x4" GRANITE COBBLE PAVERS WITH MORTARED JOINTS
- PERMEABLE PAVERS
- PAVERS ON HOT MIX ASPHALT
- STRUCTURAL SOIL (3' DEEP)
- MULCH (3' DEEP)
- PROPERTY LINE
- LIMIT OF WORK



PLANTING NOTES

- ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY "THE AMERICAN STANDARD FOR NURSERY STOCK," PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
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- STAKE LOCATION OF ALL PROPOSED PLANT MATERIAL FOR THE APPROVAL OF THE PROJECT LANDSCAPE ARCHITECT PRIOR TO THE BEGINNING OF PLANTING.
- PROPOSED STREET TREE BRANCHES ADJACENT TO THE CYCLE TRACK SHALL BE TRIMMED TO PROVIDE A MINIMUM OF 8' OF VERTICAL CLEARANCE ABOVE THE CYCLE TRACK.



SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	M. CANTU
CHECKED BY	S. SANGER
APPROVED BY	J. COPLEY

CIP XX-XX SHEET 90 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
LANDSCAPE PLAN**
ROXBURY

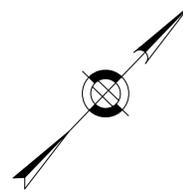
SCALE: AS NOTED
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

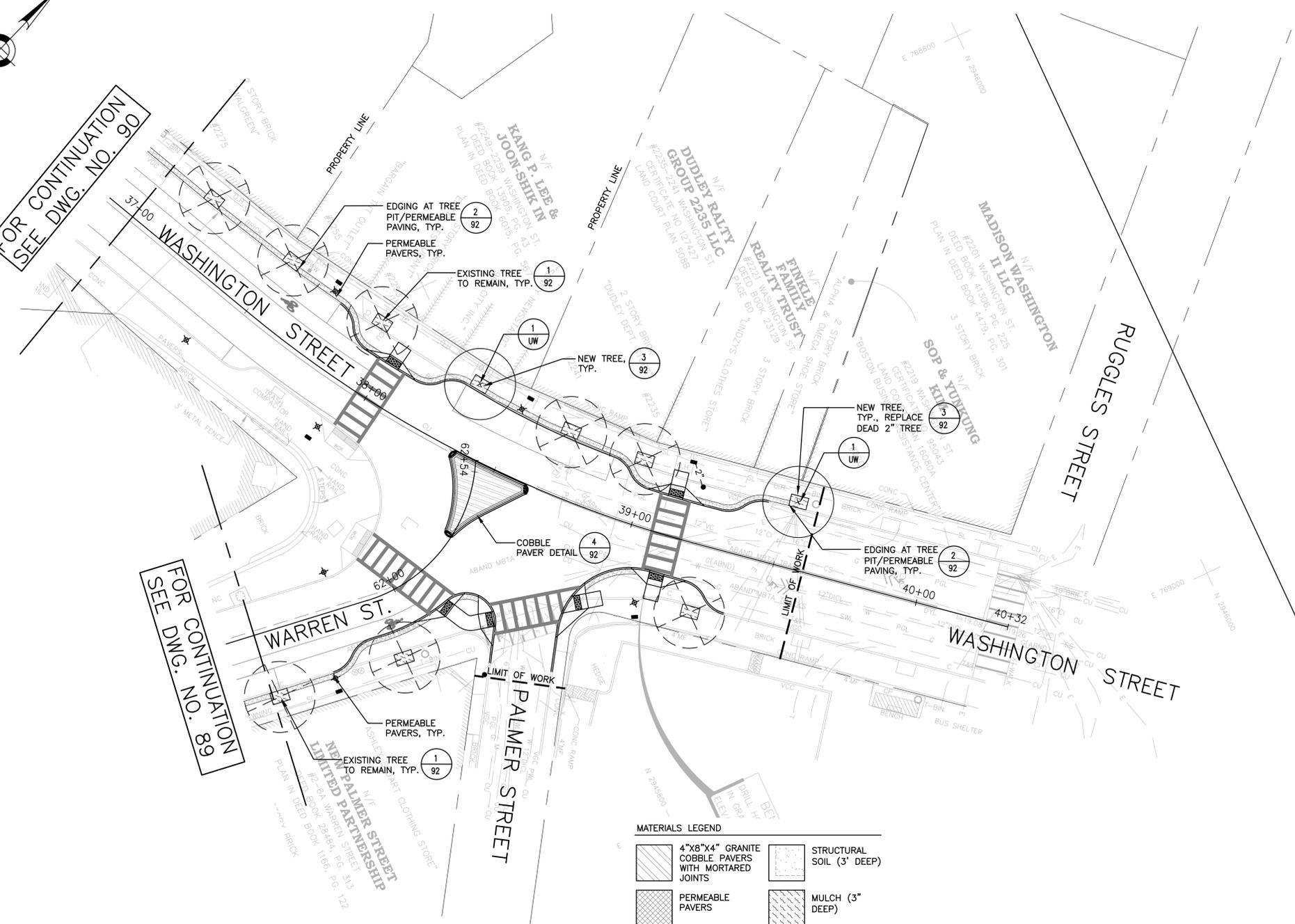
PLANT LIST

QTY	SYM	BOTANICAL NAME	COMMON NAME	COMMENTS
TREES				
2	UW	ULMUS WILSONIANA 'PROSPECTOR'	PROSPECTOR ELM	3"-3 1/2" CAL., B&B, SPECIMEN, CENTRAL LEADER, MATCHED, 6' CLEAR TRUNK



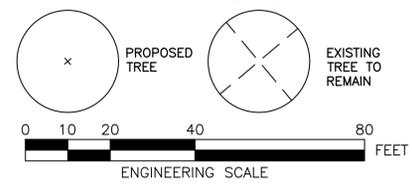
FOR CONTINUATION
SEE DWG. NO. 90

FOR CONTINUATION
SEE DWG. NO. 89



MATERIALS LEGEND

	4"x8"x4" GRANITE COBBLE PAVERS WITH MORTARED JOINTS		STRUCTURAL SOIL (3' DEEP)
	PERMEABLE PAVERS		MULCH (3" DEEP)
	PAVERS ON HOT MIX ASPHALT		PROPERTY LINE
			LIMIT OF WORK



PLANTING NOTES

- ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY "THE AMERICAN STANDARD FOR NURSERY STOCK," PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
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SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	M. CANTU
CHECKED BY	S. SANGER
APPROVED BY	J. COPLEY

CIP XX-XX SHEET 91 OF 117

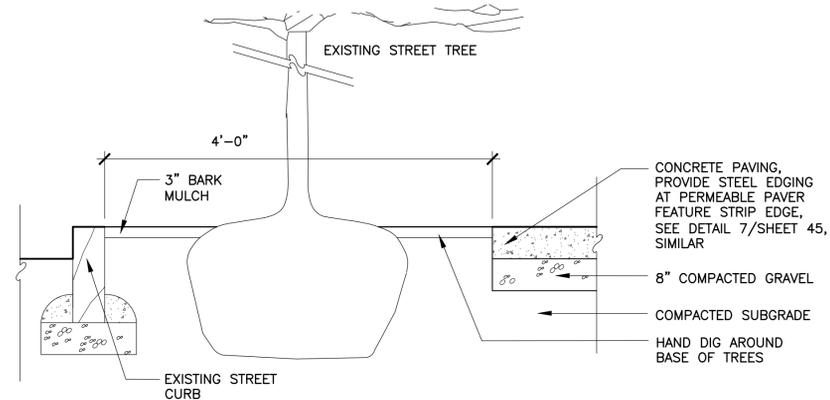
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
LANDSCAPE PLAN**
ROXBURY

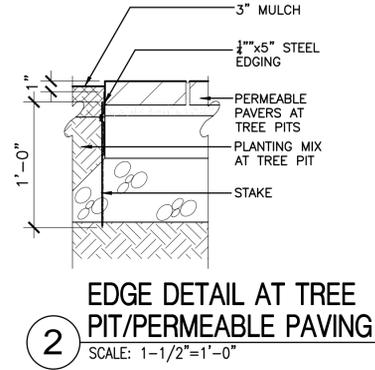
SCALE: AS NOTED
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

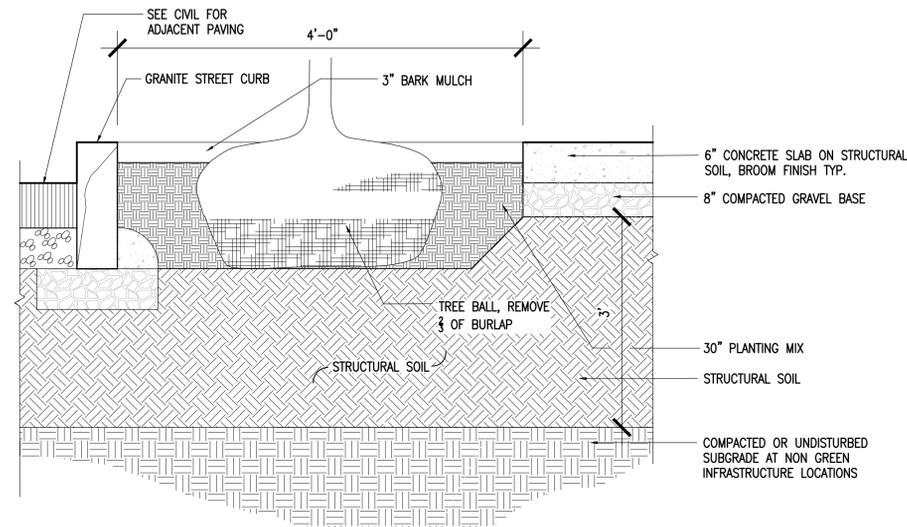
CITY ENGINEER



1 EXISTING STREET TREE PAVING EDGE DETAIL
SCALE: 3/4" = 1'-0"

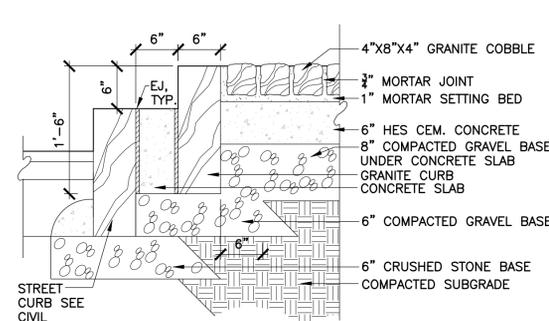


2 EDGE DETAIL AT TREE PIT/PERMEABLE PAVING
SCALE: 1-1/2"=1'-0"

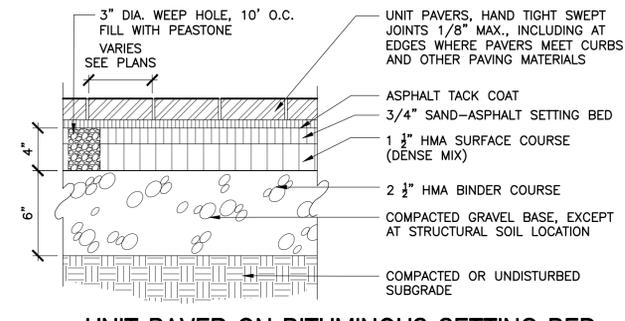


3 TREE PIT DETAIL
SCALE: 3/32" = 1'-0"

PROVIDE SHOP DRAWINGS PRIOR TO FABRICATION



4 GRANITE COBBLE ISLAND
SCALE: 1"=1'-0"



5 UNIT PAVER ON BITUMINOUS SETTING BED
SCALE: 1-1/2"=1'-0"

CIP XX-XX SHEET 92 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
LANDSCAPE DETAILS
ROXBURY

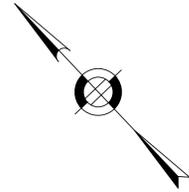
SCALE: AS NOTED
DISTRICT: 10
AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

SURVEY BY BRYANT ASSOCIATES
DRAWN BY M. CANTU
CHECKED BY S. SANGER
APPROVED BY J. COPLEY

CW Copley Wolff Design Group
DG Landscape Architects & Planners



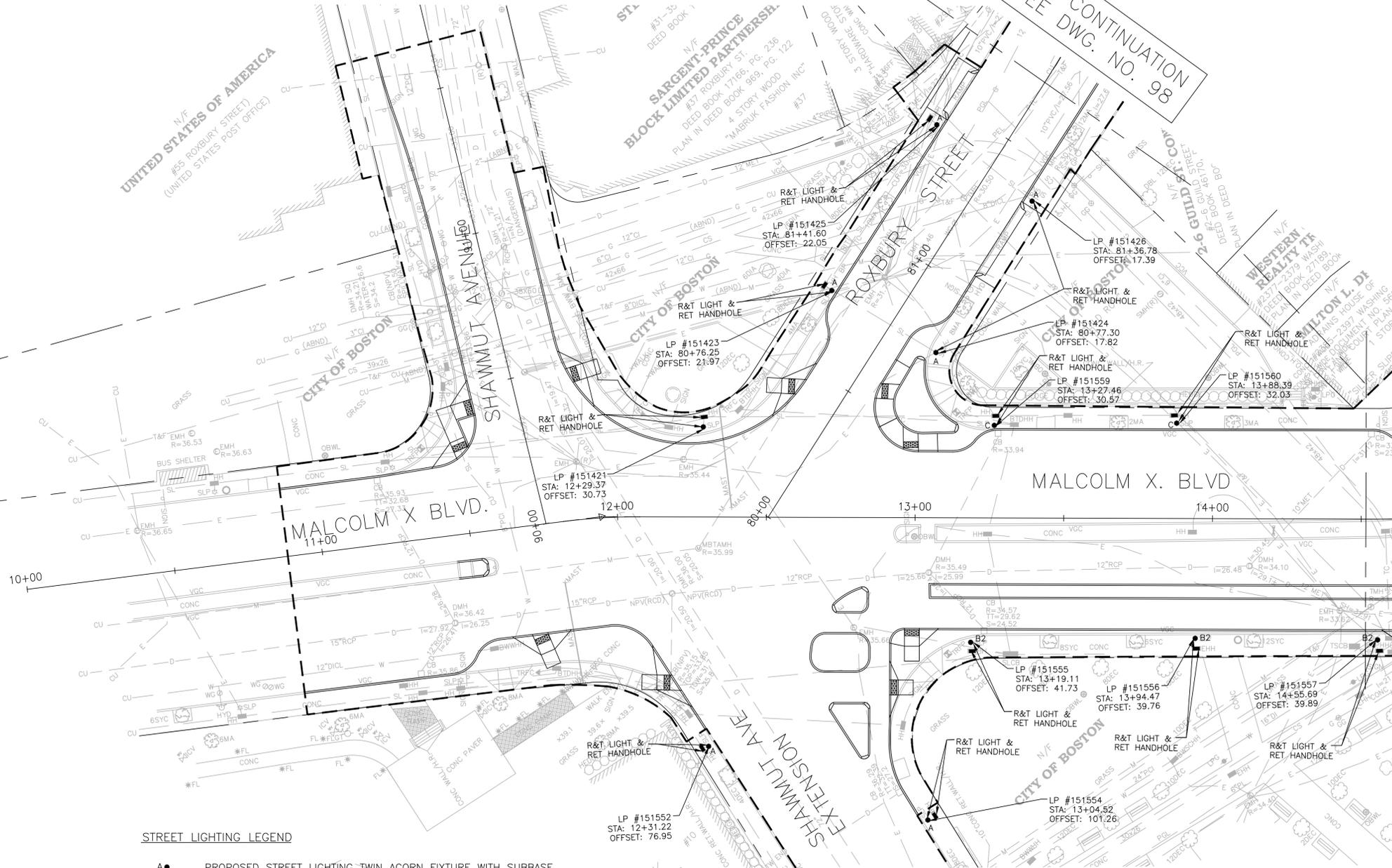


N/F
UNITED STATES OF AMERICA
#55 ROXBURY STREET
(UNITED STATES POST OFFICE)

N/F
BLOCK LIMITED PARTNERSH.
#37 ROXBURY ST.
DEED BOOK 17186, PG. 236
PLAN IN DEED BOOK 969, PG. 122
"MABRUK FASHION INC" #37

FOR CONTINUATION
SEE DWG. NO. 98

FOR CONTINUATION SEE DWG. NO. 94



STREET LIGHTING LEGEND

- A● PROPOSED STREET LIGHTING TWIN ACORN FIXTURE WITH SUBBASE
- B1● PROPOSED STREET LIGHTING STANDARD TWIN PENDANT FIXTURE WITH MODIFIED SUBBASE
- B2● PROPOSED STREET LIGHTING HIGH LOW TWIN PENDANT FIXTURE WITH MODIFIED SUBBASE
- C● PROPOSED STREET LIGHTING STANDARD SINGLE PENDANT FIXTURE WITH SUBBASE
- PROPOSED STREET LIGHTING PULL BOX
- ⊕ EXISTING POLE/STREET LIGHT
- EXISTING STREET LIGHTING PULL BOX
- 2" or 3" - PROPOSED 2" OR 3" STREET LIGHTING CONDUIT
- ▨ 3" PROPOSED 3" CONCRETE ENCASED CONDUIT
- ▣ PROPOSED LIGHTING CONTROL CABINET
- SL — EXISTING STREET LIGHT CONDUIT
- ▣ EXISTING LIGHTING CONTROL CABINET

NOTES:

1. FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
2. FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
3. FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS XX THRU XX.
4. FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
5. ALL PULL BOXES SHALL BE ABANDONED IN PLACE & FILLED WITH CONTROLLED DENSITY FILL.
6. FOR HIGH LOW TWIN PENDANT FIXTURE DETAIL, SEE SHEET 9.



REVIEWED FOR STREET LIGHTING

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES
 DRAWN BY D. YOUNG
 CHECKED BY P. FUSCO
 APPROVED BY J. CONLEY

CIP XX-XX SHEET 93 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
STREET LIGHTING PLANS
 ROXBURY

SCALE: 1" = 20'
 DISTRICT: 10
 AREA: 1
 DATE: FEB. 7, 2019
 CITY ENGINEER

R-XXXX-93



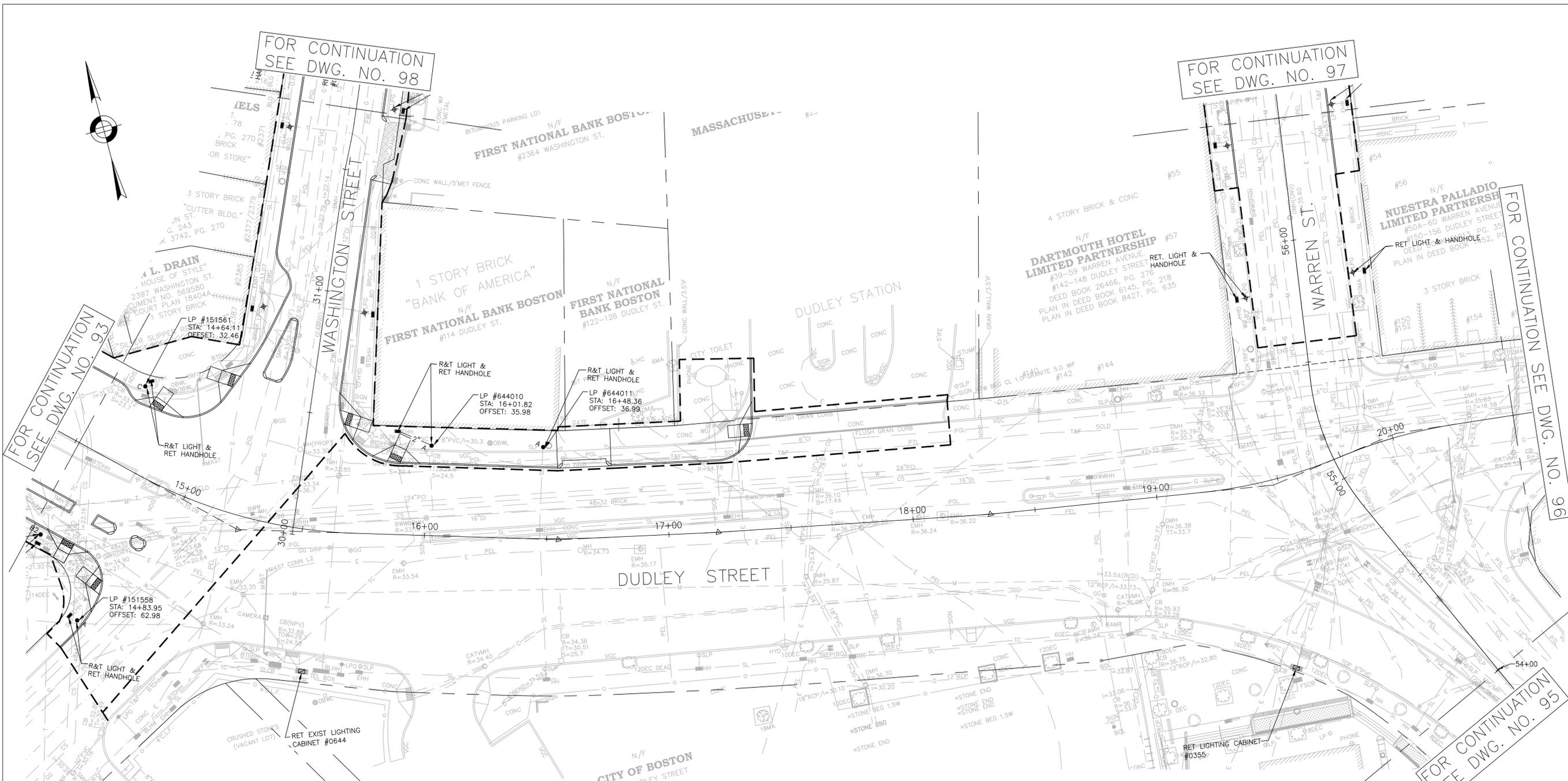
FOR CONTINUATION
SEE DWG. NO. 98

FOR CONTINUATION
SEE DWG. NO. 97

FOR CONTINUATION
SEE DWG. NO. 93

FOR CONTINUATION
SEE DWG. NO. 96

FOR CONTINUATION
SEE DWG. NO. 95



STREET LIGHTING LEGEND

- PROPOSED STREET LIGHTING TWIN ACORN FIXTURE WITH SUBBASE
- PROPOSED STREET LIGHTING STANDARD TWIN PENDANT FIXTURE WITH MODIFIED SUBBASE
- PROPOSED STREET LIGHTING HIGH LOW TWIN PENDANT FIXTURE WITH MODIFIED SUBBASE
- PROPOSED STREET LIGHTING STANDARD SINGLE PENDANT FIXTURE WITH SUBBASE
- PROPOSED STREET LIGHTING PULL BOX
- ⊕ EXISTING POLE/STREET LIGHT
- EXISTING STREET LIGHTING PULL BOX
- 2" or 3" — PROPOSED 2" OR 3" STREET LIGHTING CONDUIT
- ▨ PROPOSED 3" CONCRETE ENCASED CONDUIT
- PROPOSED LIGHTING CONTROL CABINET
- SL — EXISTING STREET LIGHT CONDUIT
- EXISTING LIGHTING CONTROL CABINET



- NOTES:**
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 - FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
 - FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS XX THRU XX.
 - FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
 - ALL PULL BOXES SHALL BE ABANDONED IN PLACE & FILLED WITH CONTROLLED DENSITY FILL.
 - FOR HIGH LOW TWIN PENDANT FIXTURE DETAIL, SEE SHEET 9.

REVIEWED FOR STREET LIGHTING

CITY OF BOSTON
DUDLEY STREET

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	D. YOUNG
CHECKED BY	P. FUSCO
APPROVED BY	J. CONLEY



CIP XX-XX SHEET 94 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
STREET LIGHTING PLANS**

ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

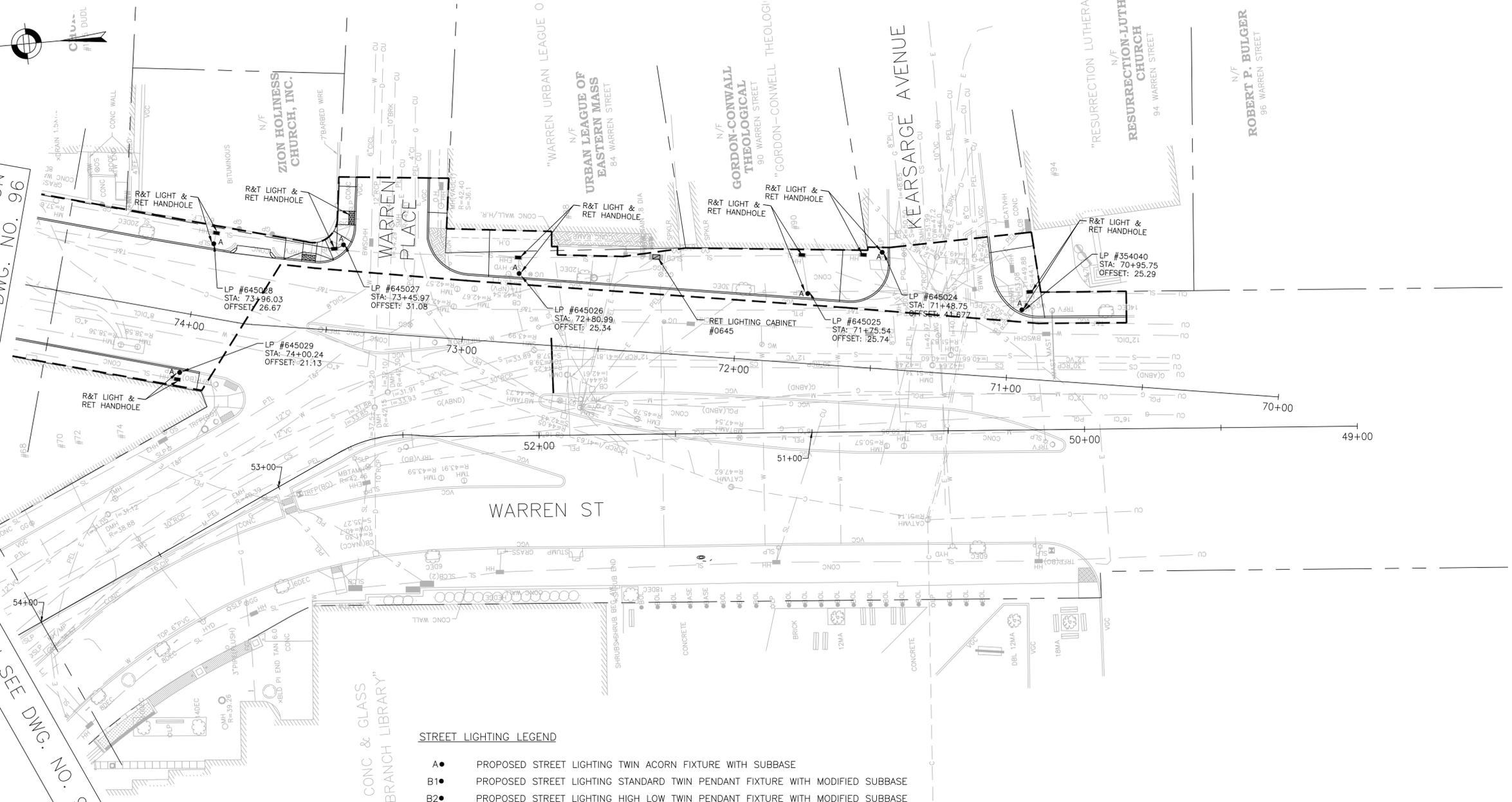
CITY ENGINEER

R-XXXX-94



FOR CONTINUATION
SEE DWG. NO. 96

FOR CONTINUATION
SEE DWG. NO. 94



STREET LIGHTING LEGEND

- A ● PROPOSED STREET LIGHTING TWIN ACORN FIXTURE WITH SUBBASE
- B1 ● PROPOSED STREET LIGHTING STANDARD TWIN PENDANT FIXTURE WITH MODIFIED SUBBASE
- B2 ● PROPOSED STREET LIGHTING HIGH LOW TWIN PENDANT FIXTURE WITH MODIFIED SUBBASE
- C ● PROPOSED STREET LIGHTING STANDARD SINGLE PENDANT FIXTURE WITH SUBBASE
- PROPOSED STREET LIGHTING PULL BOX
- ⊕ EXISTING POLE/STREET LIGHT
- EXISTING STREET LIGHTING PULL BOX
- 2" or 3" — PROPOSED 2" OR 3" STREET LIGHTING CONDUIT
- ▨ 3" CONCRETE ENCASED CONDUIT
- PROPOSED LIGHTING CONTROL CABINET
- SL — EXISTING STREET LIGHT CONDUIT
- ▣ EXISTING LIGHTING CONTROL CABINET

REVIEWED FOR STREET LIGHTING

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	D. YOUNG
CHECKED BY	P. FUSCO
APPROVED BY	J. CONLEY

CIP XX-XX SHEET 95 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
STREET LIGHTING PLANS
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

- NOTES:**
- FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
 - FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
 - FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS XX THRU XX.
 - FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
 - ALL PULL BOXES SHALL BE ABANDONED IN PLACE & FILLED WITH CONTROLLED DENSITY FILL.
 - FOR HIGH LOW TWIN PENDANT FIXTURE DETAIL, SEE SHEET 9.

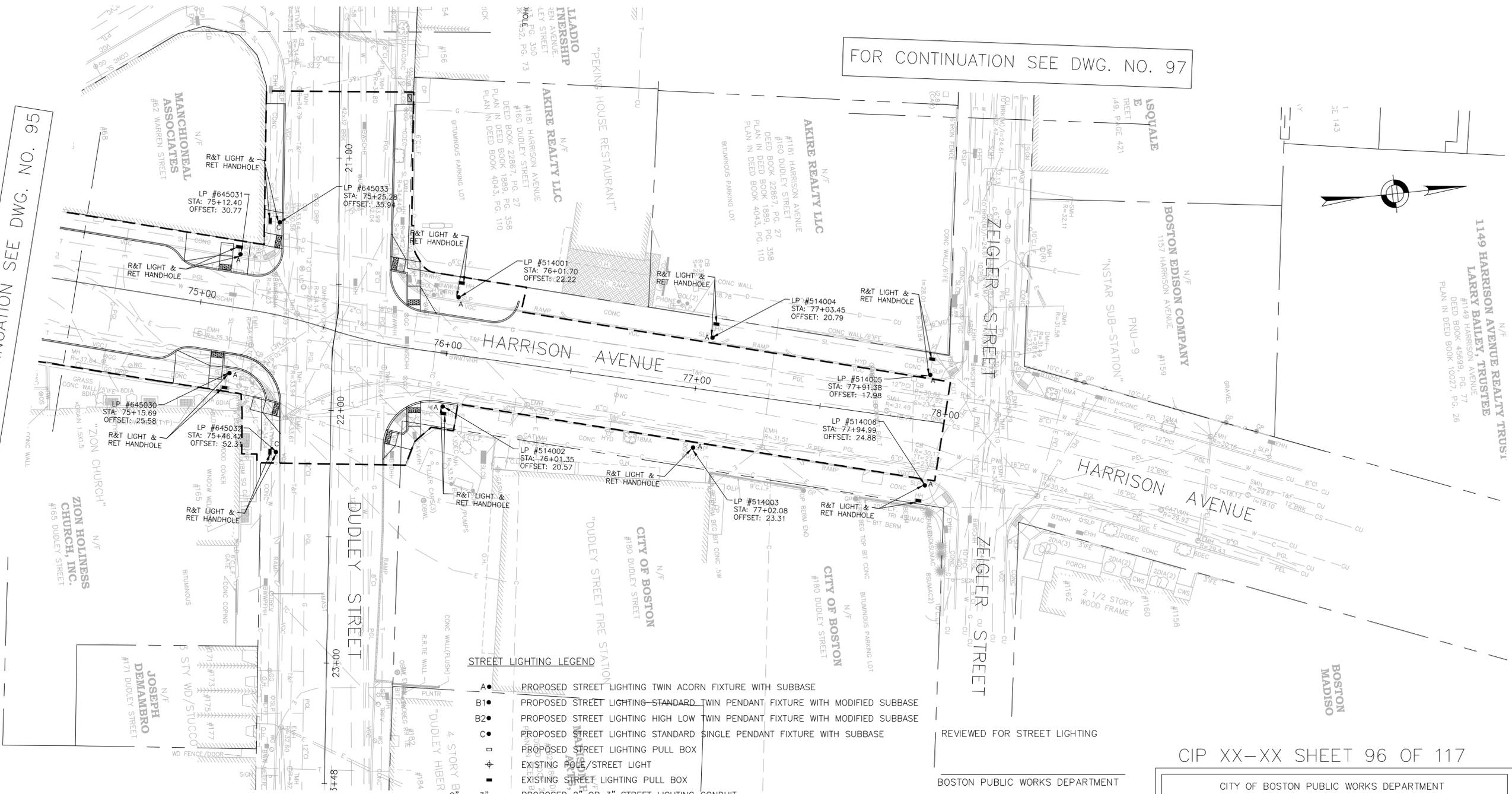
R-XXXX-95



FOR CONTINUATION SEE DWG. NO. 94

FOR CONTINUATION SEE DWG. NO. 97

FOR CONTINUATION SEE DWG. NO. 95



STREET LIGHTING LEGEND

A ●	PROPOSED STREET LIGHTING TWIN ACORN FIXTURE WITH SUBBASE
B1 ●	PROPOSED STREET LIGHTING—STANDARD TWIN PENDANT FIXTURE WITH MODIFIED SUBBASE
B2 ●	PROPOSED STREET LIGHTING HIGH LOW TWIN PENDANT FIXTURE WITH MODIFIED SUBBASE
C ●	PROPOSED STREET LIGHTING STANDARD SINGLE PENDANT FIXTURE WITH SUBBASE
□	PROPOSED STREET LIGHTING PULL BOX
⊕	EXISTING POLE / STREET LIGHT
⊖	EXISTING STREET LIGHTING PULL BOX
—	PROPOSED 2" OR 3" STREET LIGHTING CONDUIT
▨	PROPOSED 3" CONCRETE ENCASED CONDUIT
■	PROPOSED LIGHTING CONTROL CABINET
—	EXISTING STREET LIGHT CONDUIT
◻	EXISTING LIGHTING CONTROL CABINET

- NOTES:**
- FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
 - FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
 - FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS XX THRU XX.
 - FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
 - ALL PULL BOXES SHALL BE ABANDONED IN PLACE & FILLED WITH CONTROLLED DENSITY FILL.
 - FOR HIGH LOW TWIN PENDANT FIXTURE DETAIL, SEE SHEET 9.



REVIEWED FOR STREET LIGHTING

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY D. YOUNG

CHECKED BY P. FUSCO

APPROVED BY J. CONLEY

CIP XX-XX SHEET 96 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

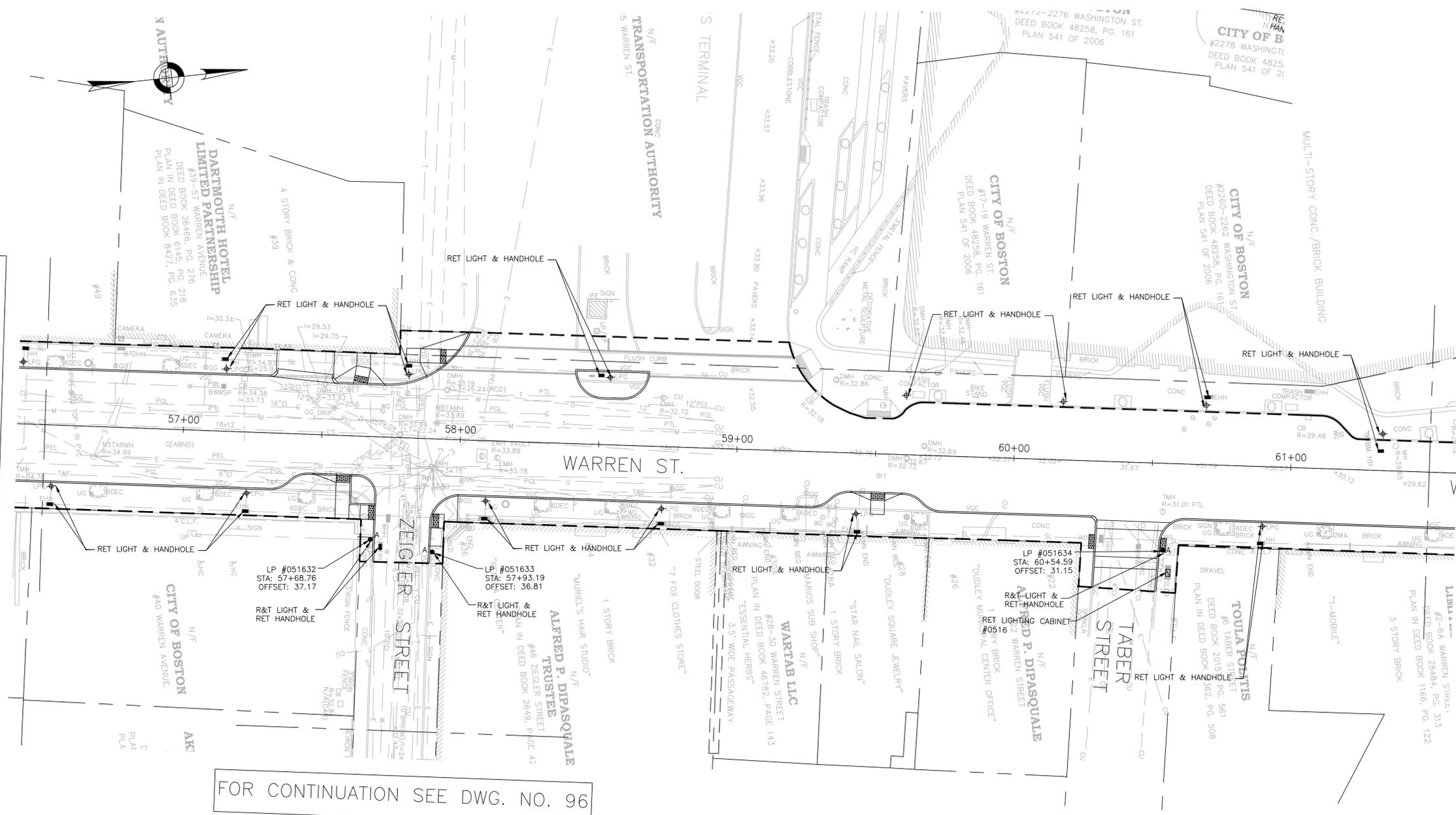
**DUDLEY SQUARE PHASE 2
STREET LIGHTING PLANS**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-96



FOR CONTINUATION SEE DWG. NO. 94

FOR CONTINUATION SEE DWG. NO. 99

FOR CONTINUATION SEE DWG. NO. 96

- NOTES:**
1. FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
 2. FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
 3. FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS XX THRU XX.
 4. FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
 5. ALL PULL BOXES SHALL BE ABANDONED IN PLACE & FILLED WITH CONTROLLED DENSITY FILL.
 6. FOR HIGH LOW TWIN PENDANT FIXTURE DETAIL, SEE SHEET 9.

STREET LIGHTING LEGEND

<ul style="list-style-type: none"> ● A ● B1 ● B2 ○ C □ ⊕ ■ - 2" or 3" - ▨ 3" ■ — SL — □ 	<ul style="list-style-type: none"> PROPOSED STREET LIGHTING TWIN ACORN FIXTURE WITH SUBBASE PROPOSED STREET LIGHTING STANDARD TWIN PENDANT FIXTURE WITH MODIFIED SUBBASE PROPOSED STREET LIGHTING HIGH LOW TWIN PENDANT FIXTURE WITH MODIFIED SUBBASE PROPOSED STREET LIGHTING STANDARD SINGLE PENDANT FIXTURE WITH SUBBASE PROPOSED STREET LIGHTING PULL BOX EXISTING POLE/STREET LIGHT EXISTING STREET LIGHTING PULL BOX PROPOSED 2" OR 3" STREET LIGHTING CONDUIT PROPOSED 3" CONCRETE ENCASED CONDUIT PROPOSED LIGHTING CONTROL CABINET EXISTING STREET LIGHT CONDUIT EXISTING LIGHTING CONTROL CABINET
---	---



REVIEWED FOR STREET LIGHTING

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	D. YOUNG
CHECKED BY	P. FUSCO
APPROVED BY	J. CONLEY

CIP XX-XX SHEET 97 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

DUDLEY SQUARE PHASE 2
STREET LIGHTING PLANS

ROXBURY

SCALE: 1" = 20'
AREA: 1

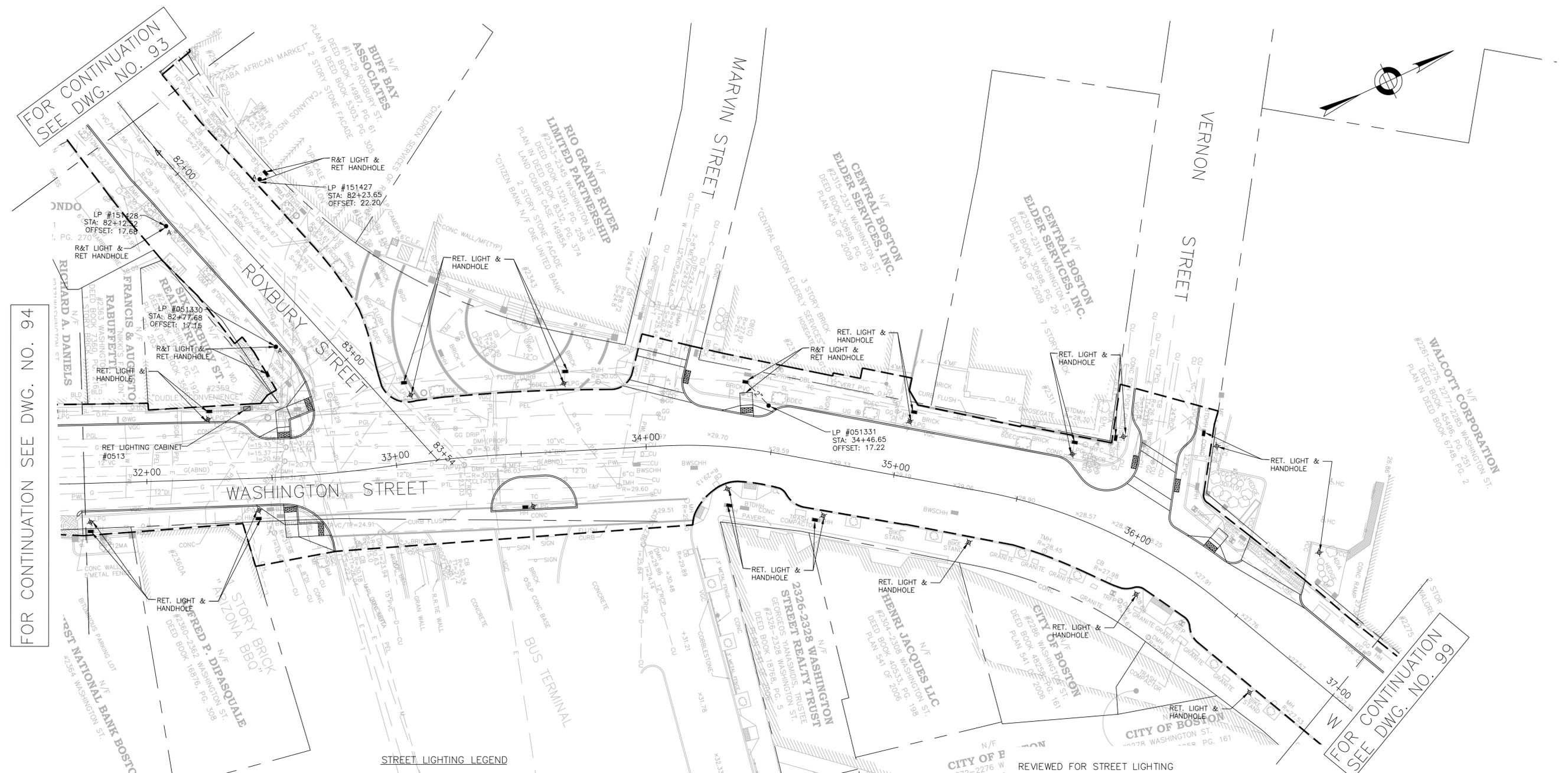
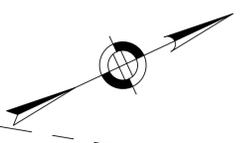
DISTRICT: 10
DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-97

FOR CONTINUATION
SEE DWG. NO. 93

FOR CONTINUATION SEE DWG. NO. 94



STREET LIGHTING LEGEND

- A ● PROPOSED STREET LIGHTING TWIN ACORN FIXTURE WITH SUBBASE
- B ● PROPOSED STREET LIGHTING STANDARD TWIN PENDANT FIXTURE WITH MODIFIED SUBBASE
- B2 ● PROPOSED STREET LIGHTING HIGH/LOW TWIN PENDANT FIXTURE WITH MODIFIED SUBBASE
- C ● PROPOSED STREET LIGHTING STANDARD SINGLE PENDANT FIXTURE WITH SUBBASE
- PROPOSED STREET LIGHTING PULL BOX
- ⊕ EXISTING POLE/STREET LIGHT
- EXISTING STREET LIGHTING PULL BOX
- 2" or 3" — PROPOSED 2" OR 3" STREET LIGHTING CONDUIT
- ▨ PROPOSED 3" CONCRETE ENCASED CONDUIT
- PROPOSED LIGHTING CONTROL CABINET
- SL — EXISTING STREET LIGHT CONDUIT
- EXISTING LIGHTING CONTROL CABINET



- NOTES:**
- FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
 - FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
 - FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS XX THRU XX.
 - FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
 - ALL PULL BOXES SHALL BE ABANDONED IN PLACE & FILLED WITH CONTROLLED DENSITY FILL.
 - FOR HIGH LOW TWIN PENDANT FIXTURE DETAIL, SEE SHEET 9.

REVIEWED FOR STREET LIGHTING

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	D. YOUNG
CHECKED BY	P. FUSCO
APPROVED BY	J. CONLEY

CIP XX-XX SHEET 98 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
STREET LIGHTING PLANS**
ROXBURY

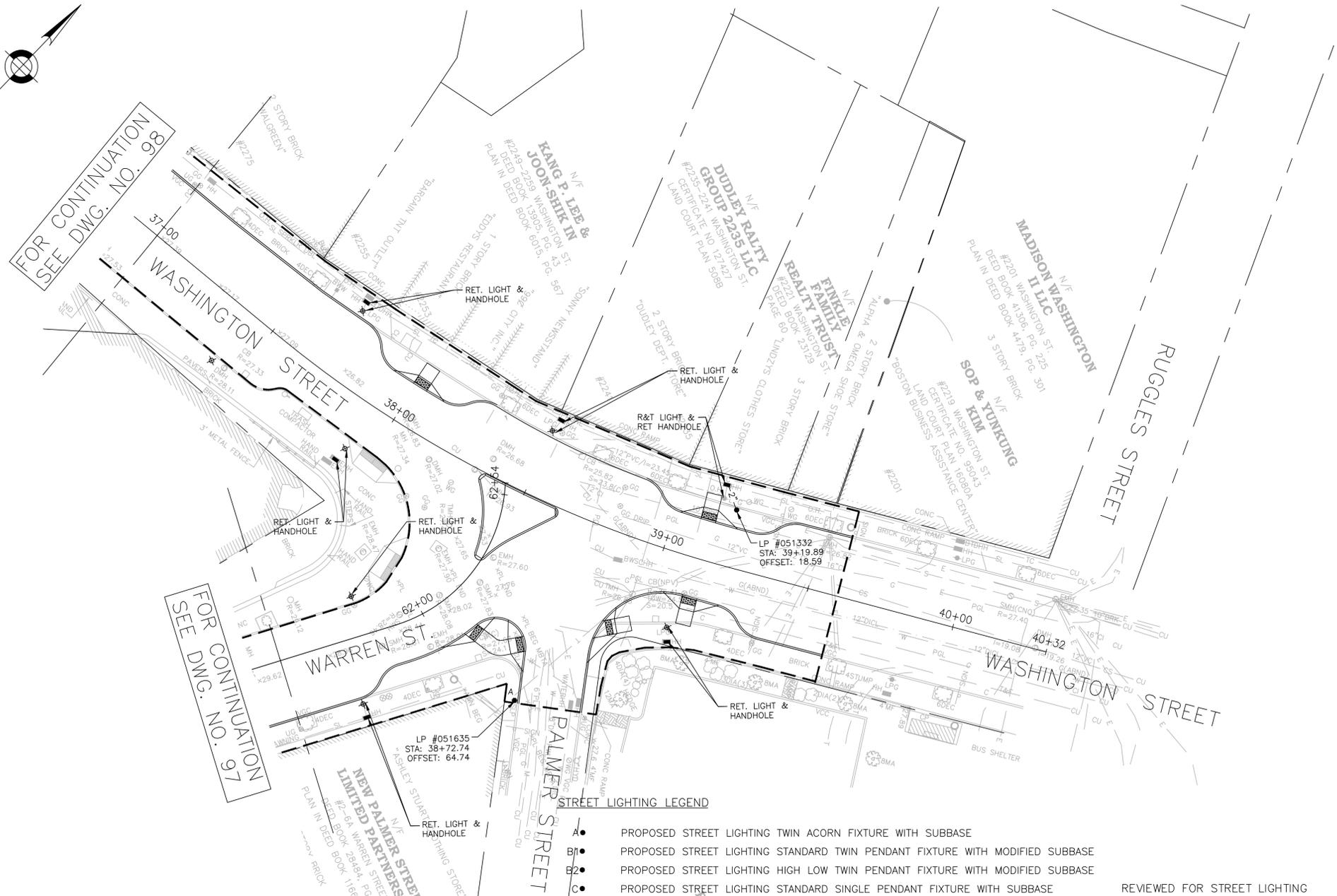
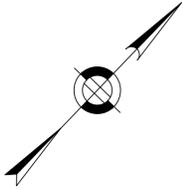
SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-98





FOR CONTINUATION
SEE DWG. NO. 98

FOR CONTINUATION
SEE DWG. NO. 97

STREET LIGHTING LEGEND

A	PROPOSED STREET LIGHTING TWIN ACORN FIXTURE WITH SUBBASE
B1	PROPOSED STREET LIGHTING STANDARD TWIN PENDANT FIXTURE WITH MODIFIED SUBBASE
B2	PROPOSED STREET LIGHTING HIGH LOW TWIN PENDANT FIXTURE WITH MODIFIED SUBBASE
C	PROPOSED STREET LIGHTING STANDARD SINGLE PENDANT FIXTURE WITH SUBBASE
□	PROPOSED STREET LIGHTING PULL BOX
⊕	EXISTING POLE/STREET LIGHT
■	EXISTING STREET LIGHTING PULL BOX
— 2" or 3" —	PROPOSED 2" OR 3" STREET LIGHTING CONDUIT
▨	PROPOSED 3" CONCRETE ENCASED CONDUIT
■	PROPOSED LIGHTING CONTROL CABINET
— SL —	EXISTING STREET LIGHT CONDUIT
■	EXISTING LIGHTING CONTROL CABINET

REVIEWED FOR STREET LIGHTING

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	D. YOUNG
CHECKED BY	P. FUSCO
APPROVED BY	J. CONLEY



- NOTES:**
- FOR KEYPLAN, GENERAL NOTE, LEGEND AND ABBREVIATIONS, SEE SHEETS 2 THRU 4.
 - FOR CONSTRUCTION PLANS, SEE SHEETS 22 THRU 28.
 - FOR GREEN INFRASTRUCTURE PLANS, SEE SHEETS XX THRU XX.
 - FOR GRADING PLANS, SEE SHEETS 43 THRU 49.
 - ALL PULL BOXES SHALL BE ABANDONED IN PLACE & FILLED WITH CONTROLLED DENSITY FILL.
 - FOR HIGH LOW TWIN PENDANT FIXTURE DETAIL, SEE SHEET 9.

CIP XX-XX SHEET 99 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

**DUDLEY SQUARE PHASE 2
STREET LIGHTING PLANS**
ROXBURY

SCALE: 1" = 20'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-99

CMP NOTES

1. THESE PLANS ARE NOT INTENDED TO LIMIT THE CONTRACTOR'S RIGHT TO SCHEDULE THE WORK, BUT TO OUTLINE ONE WAY OF PROGRESSING. THE CONTRACTOR IS EXPECTED TO USE KNOWLEDGE AND EXPERIENCE TO PERFORM THE WORK IN THE MOST SAFE AND EFFICIENT MANNER IN COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS AND MEETING THE REQUIREMENTS OF THE CITY OF BOSTON.
2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT PLANS FOR APPROVAL BY AND OBTAIN PROPER PERMITS FROM THE BOSTON TRANSPORTATION DEPARTMENT.
3. CONTRACTOR SHALL SUBMIT FOR APPROVAL BY THE CITY, CONSTRUCTION MANAGEMENT PLANS FOR ANY WORK OUTSIDE OF THE WORK ZONES INDICATED IN THESE DRAWINGS.
4. ALTERNATIVE PHASING OR MODIFICATIONS TO ANY ASPECT OF THE CONSTRUCTION MANAGEMENT PLANS AND THE CONSTRUCTION STAGING PLANS WILL BE SUBJECT TO REVIEW FOR ACCEPTANCE BY THE CITY PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH THE SUBMISSION AND REVIEW OF ALTERNATIVE CONSTRUCTION MANAGEMENT PLANS AND CONSTRUCTION STAGING PLANS, INCLUDING PRESENTATION TO THE CITY AND THE NEIGHBORHOOD IF NEEDED, VEHICULAR AND PEDESTRIAN TRAFFIC MODELING, LEVEL OF SERVICE (LOS) ANALYSES, AND OTHER ASSOCIATED EFFORTS. ALTERNATIVE CONSTRUCTION MANAGEMENT AND CONSTRUCTION STAGING PLANS SHALL NOT CAUSE AN INTERFERENCE WITH ADJACENT CONTRACTS OR DELAY THE SCHEDULE OR INCREASE THE COST OF THIS OR ANY ADJACENT CONTRACTS. LEVEL OF SERVICE ANALYSIS SHALL BE DEFINED BY THE "HIGHWAY CAPACITY MANUAL."
 5. THE CONSTRUCTION MANAGEMENT PLANS REQUIRE THAT SPECIFIC SIDEWALK WIDTHS BE MAINTAINED DURING THE VARIOUS STAGES OF CONSTRUCTION TO FACILITATE ACCEPTABLE PEDESTRIAN LEVEL OF SERVICE (LOS) MOVEMENTS ALONG TRAVEL WAYS TO AND FROM ABUTTING BUILDINGS AND BUSINESSES WITHIN THE PROJECT LIMITS. THE MINIMUM SIDEWALK WIDTHS SHOWN ON THE TRAFFIC MANAGEMENT PLANS ARE BASED ON ENGINEERING ANALYSIS AND ARE LOCATED ON THE PLANS AROUND TEMPORARY FIXED BARRICADED WORK ZONES AT SITE SPECIFIC POINTS OF CONSTRUCTION. THE SIDEWALK WIDTHS SHOWN ON THE CONSTRUCTION MANAGEMENT PLANS SHALL NOT BE DEVIATED FROM WITHOUT THE PERMISSION OF THE CITY. WHEN SPECIFIC DIMENSIONS ARE NOT SHOWN, THE CONTRACTOR SHALL MAINTAIN A MINIMUM 5-FOOT PASSAGE.
 - A. CONTRACTOR SHALL PROVIDE AND MAINTAIN A TEMPORARY PEDESTRIAN ROUTE ACCESSIBLE TO DISABLED PERSONS AROUND BLOCKAGES TO AN EXISTING PEDESTRIAN ROUTE (E.G., SIDEWALKS, CROSSWALKS, PEDESTRIAN CURB RAMPS, ETC.). BLOCKAGES INCLUDE, BUT ARE NOT LIMITED TO, CONSTRUCTION WORK, EXCAVATIONS, EQUIPMENT AND VEHICLES, TEMPORARY WATER AND UTILITY LINES. TEMPORARY PEDESTRIAN ROUTES SHALL BE IN COMPLIANCE WITH THE REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT AND THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD.
 - B. SIDEWALK AREAS SHALL REMAIN OPEN AND FREE FROM SAFETY CONTROL DEVICES AND CONSTRUCTION DEBRIS THROUGHOUT THE DURATION OF THE CONSTRUCTION. PEDESTRIAN DETOURING SHALL NOT OCCUR UNLESS APPROVED BY THE CITY.
6. CONTRACTOR SHALL SECURE WORK AREAS TO ENSURE PUBLIC SAFETY AND CONVENIENCE. THIS SHALL INCLUDE ENSURING THAT ALL EXCAVATIONS ARE PROTECTED AT ALL TIMES.
7. ALL CONSTRUCTION SIGNAGE, DRUMS, BARRICADES AND OTHER DEVICES SHALL CONFORM WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS AMENDED AND BTD SIGN STANDARDS.
8. CHANNELIZATION WILL BE ACCOMPLISHED THROUGH THE USE OF REFLECTORIZED PLASTIC DRUMS OR APPROVED EQUAL IN ACCORDANCE WITH THE MUTCD.
9. CONTRACTOR SHALL COORDINATE WITH THE CITY TO ACCOMMODATE ACCESS NEEDS OF ABUTTING PROPERTIES NOT SPECIFIED IN THE PLANS.
10. CONTRACTOR SHALL MAINTAIN EMERGENCY PASSAGE AT ALL TIMES TO BUILDINGS WITHIN THE PROJECT LIMITS. CONTRACTOR SHALL MAINTAIN 24-HOUR EMERGENCY VEHICLE ACCESS TO AND THROUGH CONSTRUCTION AREAS.
11. CONTRACTOR SHALL PROVIDE POLICE DETAILS DURING WORK HOURS FOR TRAFFIC CONTROL AS STIPULATED IN THE CITY OF BOSTON MUNICIPAL CODE (CHAPTER 11, SECTION 6.9).
12. POLICE DETAIL WILL BE PROVIDED TO DIRECT TRAFFIC DURING CONSTRUCTION ACTIVITIES AT THE INTERSECTION OF WARREN AND DUDLEY STREETS DURING ALL PHASES AND INTERSECTION OF WASHINGTON AND DUDLEY STREETS DURING PHASES 1 AND 2. BOSTON POLICE DETAIL REQUIREMENTS SHALL BE PER THE BTD PERMIT.

13. SAFETY SIGNS PROPOSED FOR LOCATIONS OTHER THAN ERECTED ON TEMPORARY BARRICADES MAY BE ERECTED ON EXISTING LIGHT POLES, SIGN POSTS AND OTHER EXISTING FEATURES AS APPROVED BY THE CITY.
14. LOCATIONS OF SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR SHALL ENSURE THAT SIGNS ARE PLACED SO MAXIMUM VISIBILITY IS OBTAINED.
15. EXISTING SIGNAGE WHICH CONFLICTS WITH PROPOSED SIGNAGE SHALL BE REMOVED AND STACKED OR COVERED AS DETERMINED BY THE CITY. AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE THE SIGNAGE TO ITS EXISTING LAYOUT WHERE NECESSARY.
16. WHEN CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION SIGNAGE AND TEMPORARY PAVEMENT MARKINGS.
17. THE BOSTON POLICE, FIRE AND TRANSPORTATION DEPARTMENTS SHALL BE ADVISED OF THE SCHEDULE OF CONSTRUCTION, AS WELL AS OF ANY DETOURS, LANE CLOSURES, OR ALTERNATE ROUTES.
18. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR CONSTRUCTION MANAGEMENT EFFORTS OUTSIDE OF THE SITE PLANS AND SHALL COMPLY WITH CONDITIONS OUTLINED WITHIN THE PLANS AND SPECIFICATIONS USING APPROVED METHODS.
19. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS, INCLUDING STAGING AREA, SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
20. THE CONTRACTOR IS HEREBY NOTIFIED THAT ADDITIONAL WORK WITHIN THE PROJECT LIMITS MAY BE PERFORMED BY OTHERS. SEE GENERAL NOTE 25 ON SHEET 3.
21. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION.
22. THE CONTRACTOR SHALL VERIFY PROPERTY LIMITS PRIOR TO CONSTRUCTION AND PLACE ANY TEMPORARY OR NEW EQUIPMENT WITHIN THE CITY OF BOSTON'S RIGHT OF WAY.
23. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT FOR REVIEW A DETAILED SCHEDULE OF OPERATIONS IN ADDITION TO OTHER CONTRACT REQUIREMENTS TO THE BOSTON TRANSPORTATION DEPARTMENT AND PUBLIC WORKS DEPARTMENT.
24. ANY WORK ASSOCIATED WITH THIS CONSTRUCTION MANAGEMENT PLAN SHALL BE PERFORMED IN ACCORDANCE WITH THE BOSTON PUBLIC WORKS DEPARTMENT STANDARD SPECIFICATIONS AND DRAWINGS, AS WELL AS BOSTON TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS AND DRAWINGS. WHERE CONFLICTS EXIST, THE BOSTON TRANSPORTATION DEPARTMENT AND BOSTON PUBLIC WORKS DEPARTMENT SPECIFICATIONS SHALL GOVERN.
25. NO EXISTING PUBLIC UTILITY STRUCTURES SHALL BE ABANDONED AND/OR DISMANTLED WITHOUT AUTHORIZATION FROM THE CITY.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE STREET LIGHTING ADJACENT TO THE PROJECT, FOR THE DURATION OF THE PROJECT, AS APPROVED BY THE CITY. CONTRACTOR SHALL ENSURE THAT STREET LIGHTING SERVICE WILL NOT BE INTERRUPTED AN THAT STREET LIGHTING WILL BE OPERATIONAL AT THE END OF EACH WORKDAY.
27. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL BFD FIRE HYDRANTS DURING CONSTRUCTION OR PROVIDE AN ALTERNATIVE ACCEPTABLE TO BFD.
28. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC, OR APPROVED EQUAL, AND MEET BOSTON TRANSPORTATION DEPARTMENT SPECIFICATIONS.
29. THE CONTRACTOR SHALL ERADICATE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS.
30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TRAFFIC SIGNAL EQUIPMENT, LOOP DETECTORS, PAVEMENT MARKINGS, AND SIGNAGE DAMAGED OR TEMPORARILY REMOVED DURING CONSTRUCTION.
31. ALL WORK SHALL OCCUR DURING 7:00AM - 4:00PM. NO LANE CLOSURES SHALL OCCUR BETWEEN 7:00AM - 9:30AM AND 3:30PM - 6:00PM. WEEKEND WORK SHALL BE ALLOWED AND IS ENCOURAGED. ALL WORK SHALL BE FULLY COORDINATED WITH MBTA BUS OPERATIONS AT DUDLEY TERMINAL.
32. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE LIBRARY CONSTRUCTION GATES DURING ALL PHASES OF STREET WORK.

CMP LEGEND

-  TRAFFIC FLOW ARROW
-  SIGN POST
-  HANDICAP RAMP
-  DRUM
-  TYPE III BARRICADE
-  POLICE DETAIL SYMBOL
-  TEMPORARY CONCRETE BARRIER

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY D. YOUNG

CHECKED BY P. FUSCO

APPROVED BY J. CONLEY



CIP XX-XX SHEET 100 OF 117

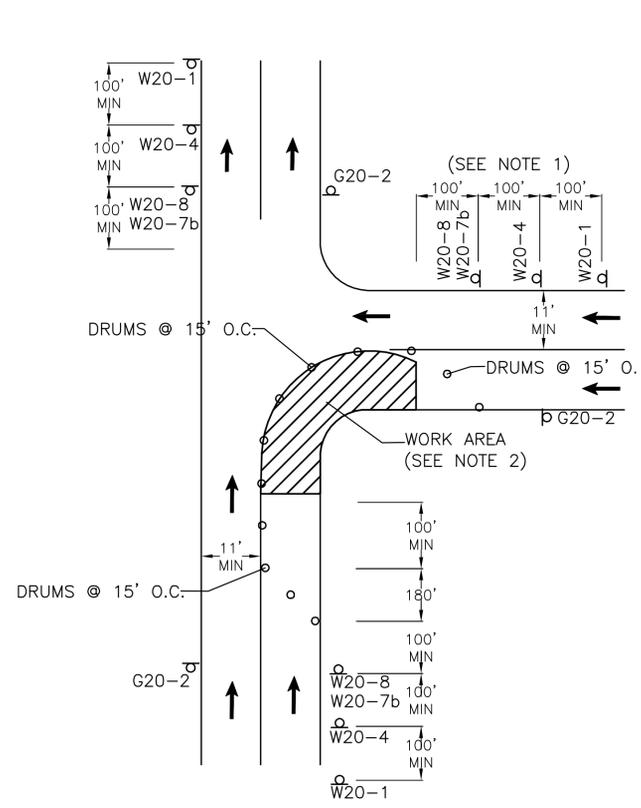
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
CMP NOTES AND LEGEND
ROXBURY

SCALE: N.T.S.
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

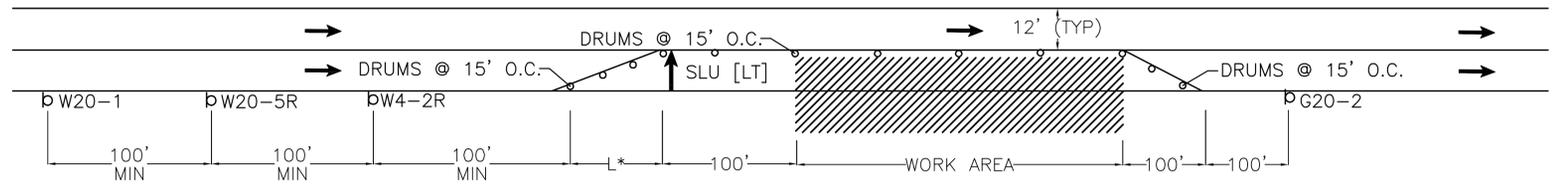
CITY ENGINEER

R-XXXX-100

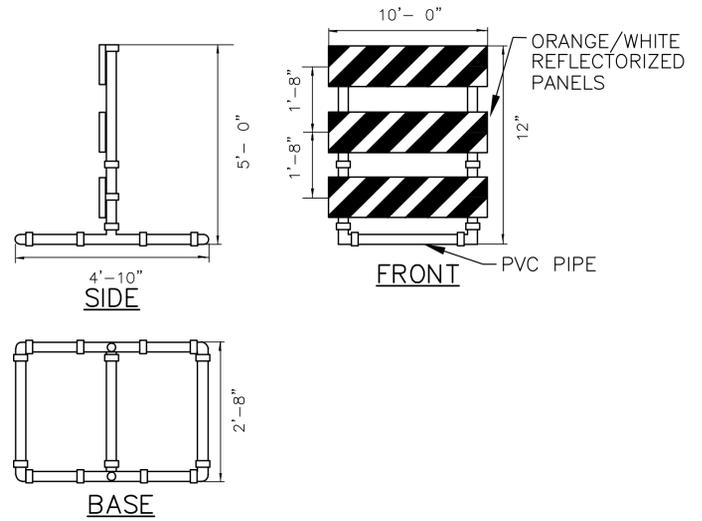


ONE LANE ONE-DIRECTIONAL TRAFFIC AT INTERSECTIONS
NOT TO SCALE

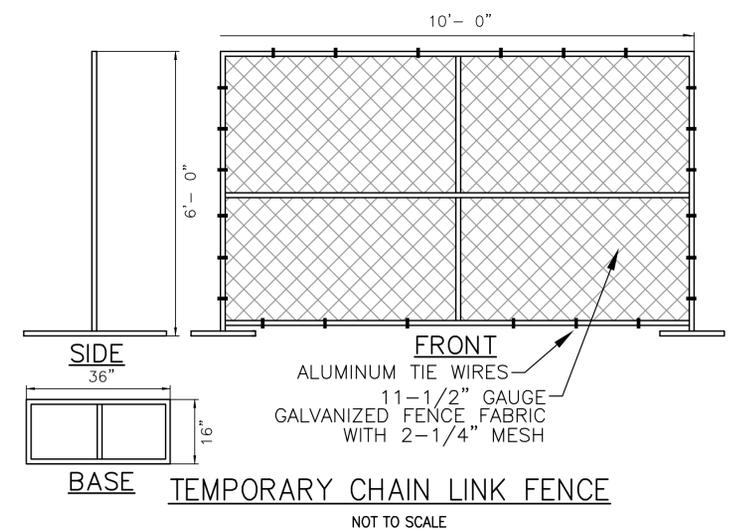
- NOTE:**
1. ADVANCE WARNING SIGN PLACEMENT TO BE ADJUSTED AS NECESSARY AS DETERMINED BY THE ENGINEER.
 2. ANY EXCAVATION GREATER THAN 3' DEEP ADJACENT TO TRAFFIC SHALL BE PROTECTED BY TEMPORARY CONCRETE BARRIER.



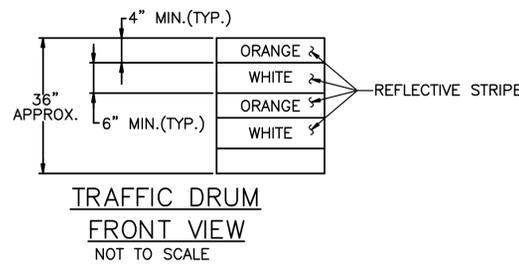
ONE LANE CLOSURE
NOT TO SCALE



TYPE III BARRICADE
NOT TO SCALE

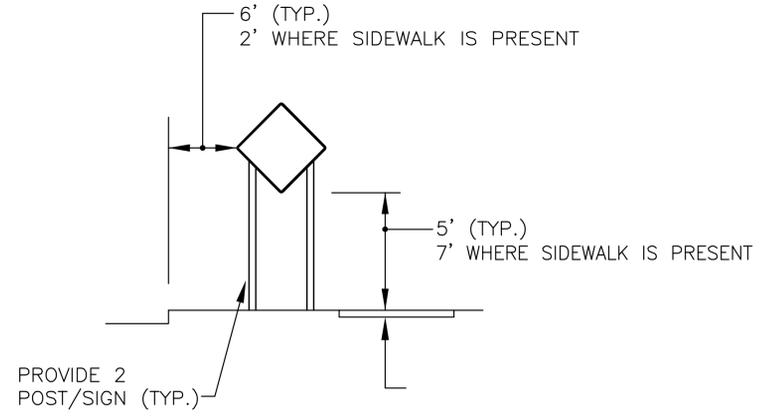


TEMPORARY CHAIN LINK FENCE
NOT TO SCALE



TRAFFIC DRUM FRONT VIEW
NOT TO SCALE

- NOTES:**
1. TRAFFIC DRUM SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION M.U.T.C.D.
 2. THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED NOT SUITABLE FOR THE PURPOSE INTENDED.
 3. THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE FLEXIBLE ENCAPSULATED LENS REFLECTIVE SHEETING.
 4. REFLECTORIZED STRIPES SHOULD NOT BE PLACED OVER THE PROTRUDING CIRCUMFERENCIAL RIBS OF THE DRUM.
 5. THE SECTIONS OF DRUMS NOT COVERED WITH REFLECTORIZED STRIPES SHALL BE ORANGE.



TEMPORARY TRAFFIC SIGN INSTALLATION
NOT TO SCALE

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

CIP XX-XX SHEET 101 OF 117

BOSTON TRANSPORTATION DEPARTMENT

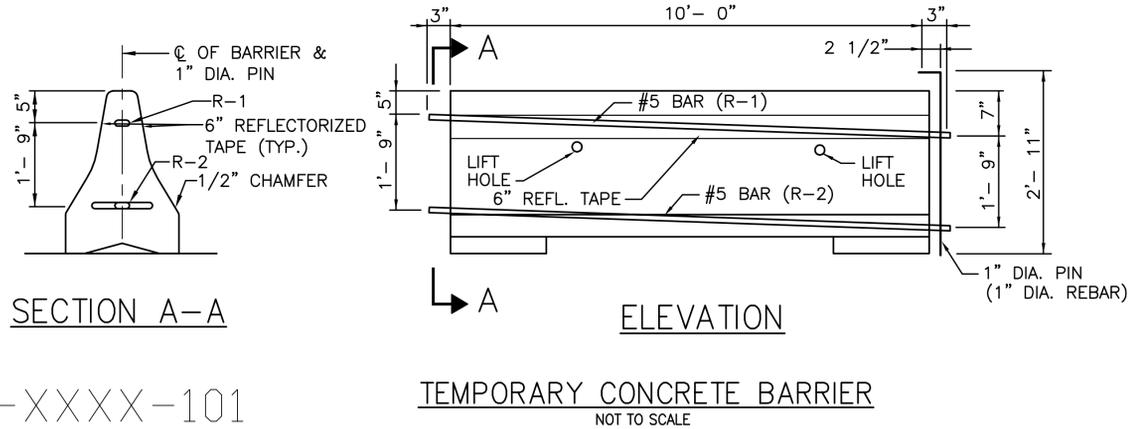
SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	D. YOUNG
CHECKED BY	P. FUSCO
APPROVED BY	J. CONLEY

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

DUDLEY SQUARE PHASE 2
CMP DETAILS
ROXBURY

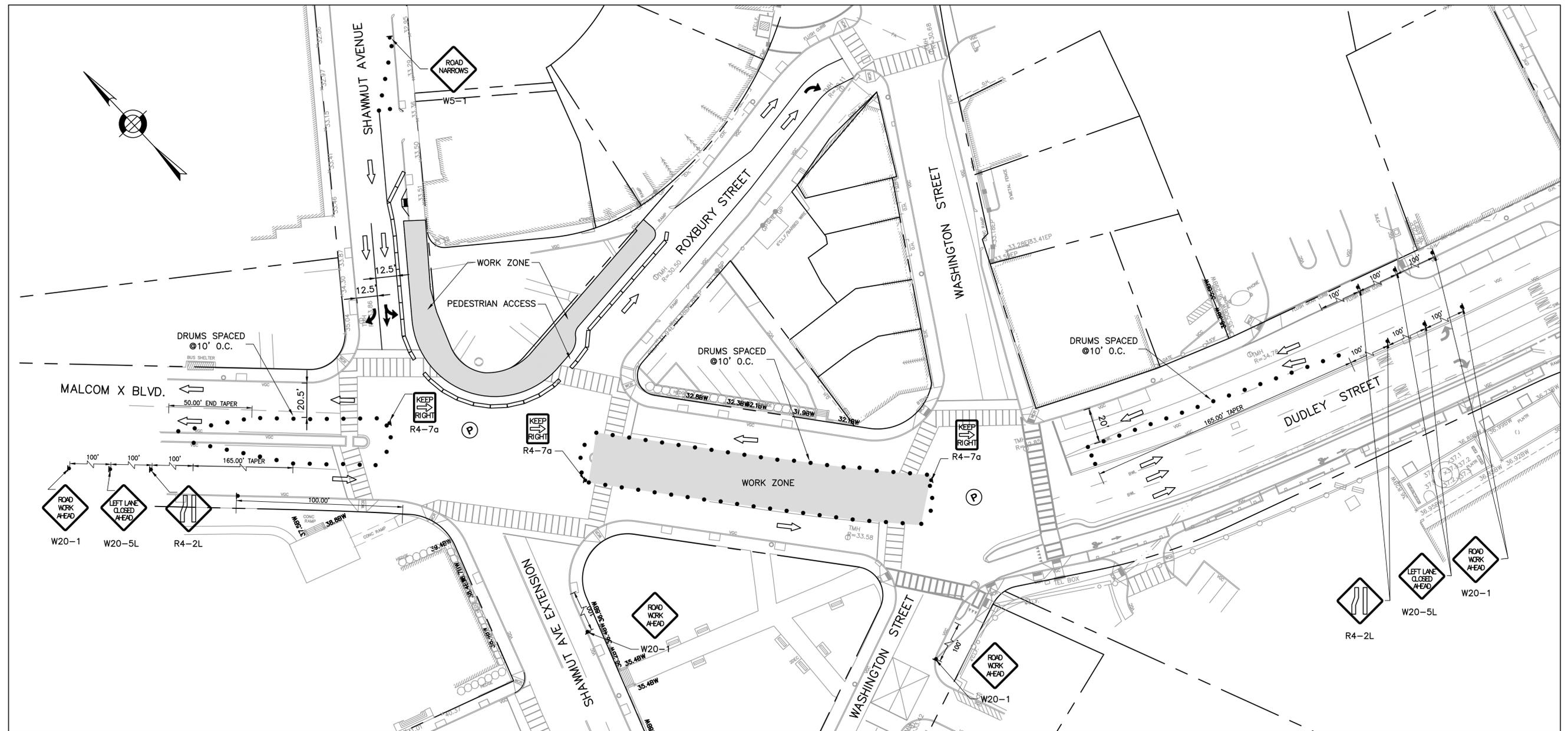
SCALE: N.T.S. AREA: 1
DISTRICT: 10 DATE: FEB. 7, 2019

CITY ENGINEER



TEMPORARY CONCRETE BARRIER
NOT TO SCALE

R-XXXX-101



MALCOLM X BLVD/DUDLEY STREET MEDIAN & MALCOLM X BLVD NORTH SIDEWALK CONSTRUCTION STAGING

NOTES:

1. CLOSURE FOR MALCOLM X BOULEVARD/DUDLEY STREET CENTER MEDIAN REMOVAL.
2. CLOSURE FOR DUDLEY STREET NORTH SIDEWALK RECONSTRUCTION.
3. ACCESS TO ADJACENT BUSINESSES AND DUDLEY LIBRARY MUST BE MAINTAINED AT ALL TIMES.
4. PEDESTRIAN PASSAGE SHALL BE A 5' MINIMUM.
5. TRAVEL LANES SHALL BE A 10' MINIMUM EXCEPT AS NOTED.
6. CONSTRUCTION SCHEDULE WILL BE COORDINATED WITH DUDLEY LIBRARY CONSTRUCTION.
7. CONTRACTOR SHALL MAINTAIN ACCESS TO LIBRARY CONSTRUCTION GATES DURING ALL PHASES OF STREET WORK.

CMP LEGEND	
	TRAFFIC FLOW ARROW
	SIGN POST
	HANDICAP RAMP
	DRUM
	TYPE III BARRICADE
	POLICE DETAIL SYMBOL
	TEMPORARY CONCRETE BARRIER

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY BRYANT ASSOCIATES
 DRAWN BY A.DALLY
 CHECKED BY P.FUSCO
 APPROVED BY J.CONLEY

CIP XX-XX SHEET 102 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION

DUDLEY SQUARE PHASE 2
DUDLEY STREET CMP MEDIAN AND NORTH SIDEWALK
 ROXBURY

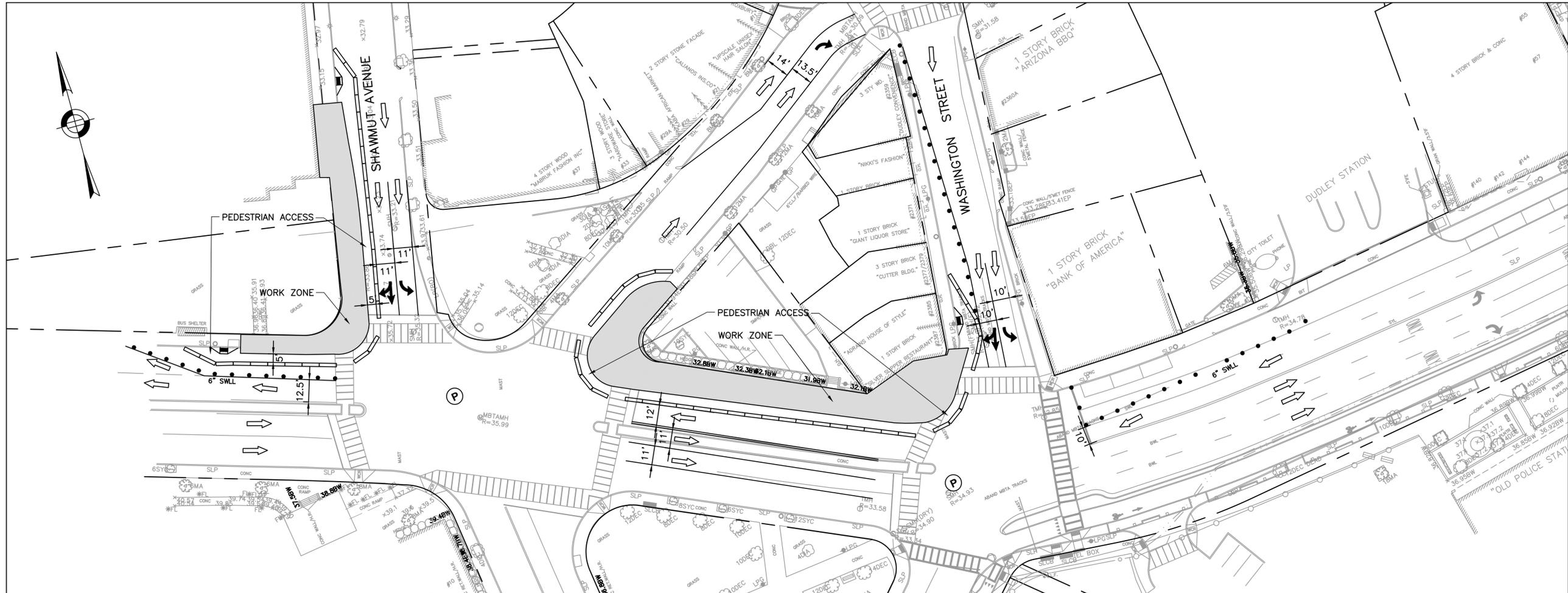
SCALE: 1" = 30'
 DISTRICT: 10

AREA: 1
 DATE: FEB. 7, 2019

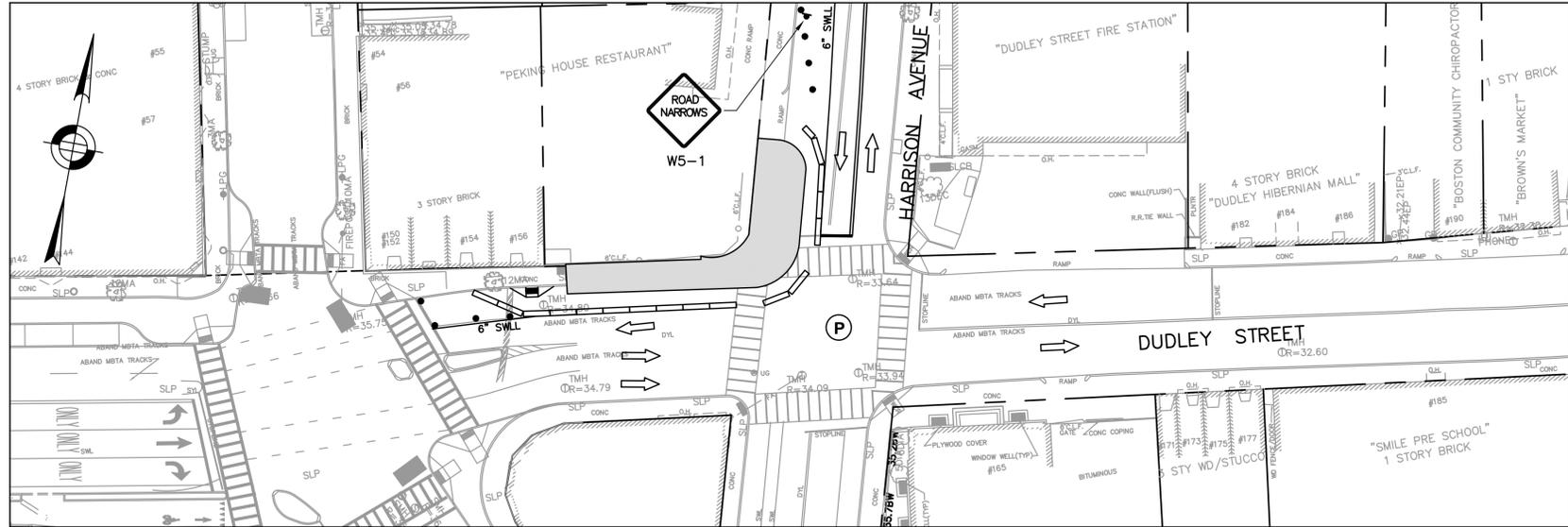
 CITY ENGINEER



R-XXXX-102



MALCOLM X BLVD/DUDLEY STREET NORTH SIDEWALK CONSTRUCTION STAGING A



DUDLEY STREET NORTH SIDEWALK CONSTRUCTION STAGING B

- NOTES:**
1. CLOSURE FOR DUDLEY STREET NORTH SIDEWALK RECONSTRUCTION.
 2. ACCESS TO ADJACENT BUSINESSES AND DUDLEY LIBRARY MUST BE MAINTAINED AT ALL TIMES.
 3. PEDESTRIAN PASSAGE SHALL BE A 5' MINIMUM.
 4. TRAVEL LANES SHALL BE A 10' MINIMUM EXCEPT AS NOTED.
 5. CONSTRUCTION SCHEDULE WILL BE COORDINATED WITH DUDLEY LIBRARY CONSTRUCTION.
 6. CONTRACTOR SHALL MAINTAIN ACCESS TO LIBRARY CONSTRUCTION GATES DURING ALL PHASES OF STREET WORK.
- REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

CMP LEGEND

	TRAFFIC FLOW ARROW
	SIGN POST
	HANDICAP RAMP
	DRUM
	TYPE III BARRICADE
	POLICE DETAIL SYMBOL
	TEMPORARY CONCRETE BARRIER

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY A.DALLY

CHECKED BY P.FUSCO

APPROVED BY J.CONLEY

CIP XX-XX SHEET 103 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

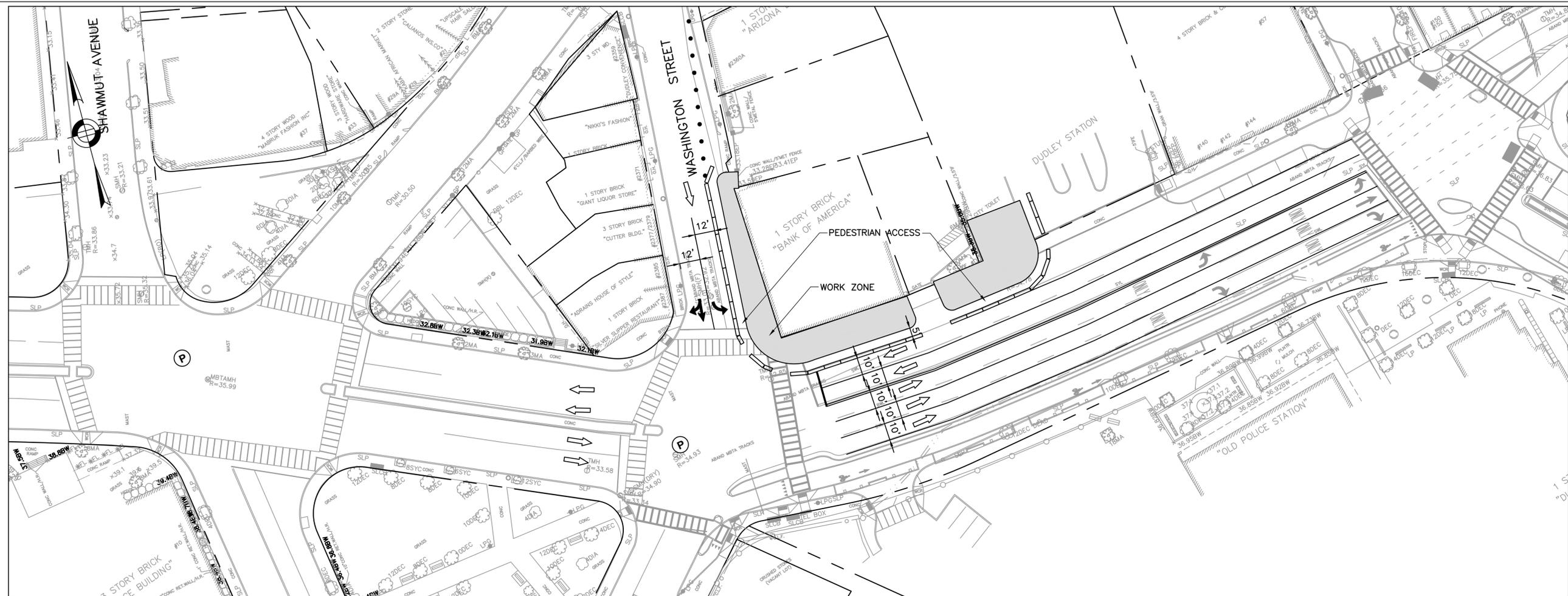
DUDLEY SQUARE PHASE 2
DUDLEY STREET CMP NORTH SIDEWALK
ROXBURY

SCALE: 1" = 30'
DISTRICT: 10

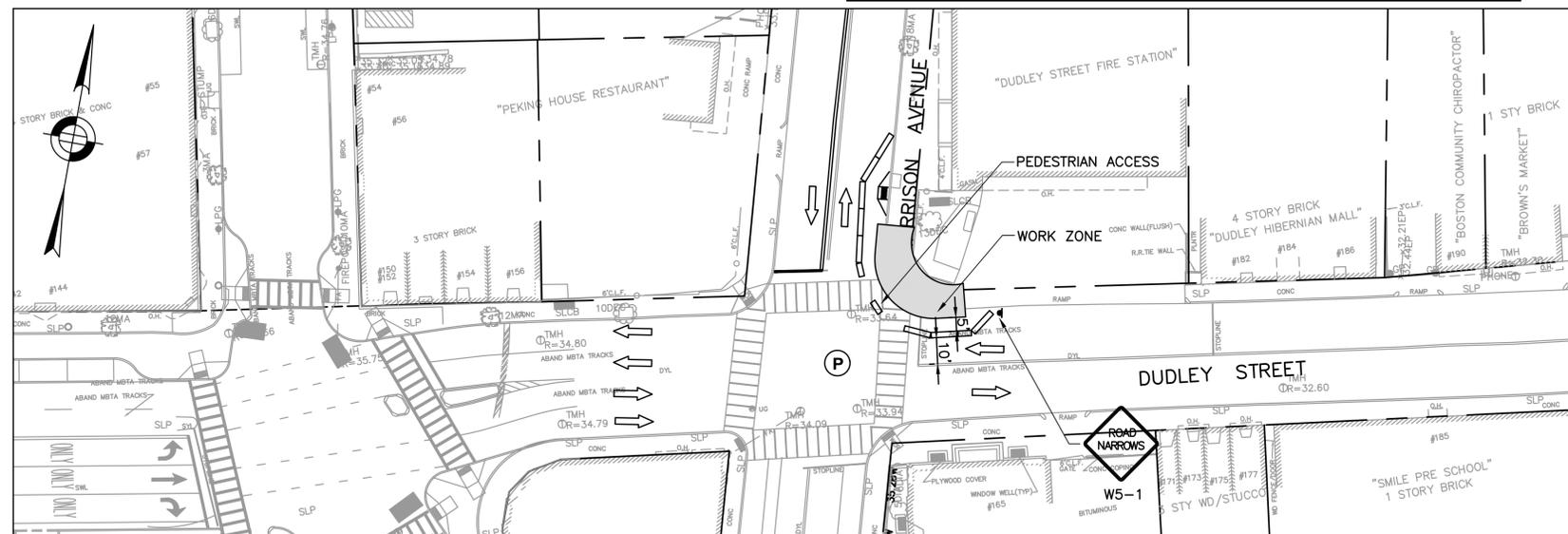
AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER





DUDLEY STREET NORTH SIDEWALK CONSTRUCTION STAGING C



DUDLEY STREET NORTH SIDEWALK CONSTRUCTION STAGING D

NOTES:

1. CLOSURE FOR DUDLEY STREET NORTH SIDEWALK RECONSTRUCTION.
 2. ACCESS TO ADJACENT BUSINESSES AND DUDLEY LIBRARY MUST BE MAINTAINED AT ALL TIMES.
 3. PEDESTRIAN PASSAGE SHALL BE A 5' MINIMUM.
 4. TRAVEL LANES SHALL BE A 10' MINIMUM EXCEPT AS NOTED.
 5. CONSTRUCTION SCHEDULE WILL BE COORDINATED WITH DUDLEY LIBRARY CONSTRUCTION.
 6. CONTRACTOR SHALL MAINTAIN ACCESS TO LIBRARY CONSTRUCTION GATES DURING ALL PHASES OF STREET WORK.
- REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

CMP LEGEND	
	TRAFFIC FLOW ARROW
	SIGN POST
	HANDICAP RAMP
	DRUM
	TYPE III BARRICADE
	POLICE DETAIL SYMBOL
	TEMPORARY CONCRETE BARRIER

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY BRYANT ASSOCIATES
 DRAWN BY A.DALLY
 CHECKED BY P.FUSCO
 APPROVED BY J.CONLEY

CIP XX-XX SHEET 104 OF 117

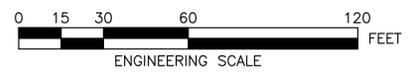
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
DUDLEY STREET CMP NORTH SIDEWALK
 ROXBURY

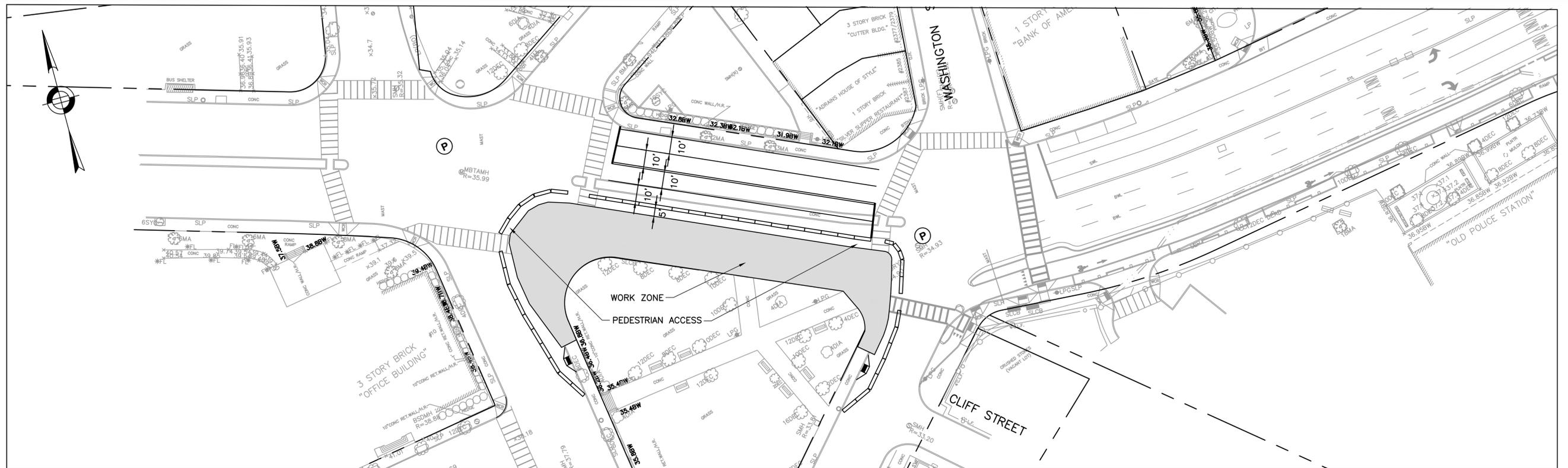
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 DISTRICT: 10

AREA: 1
 DATE: FEB. 7, 2019

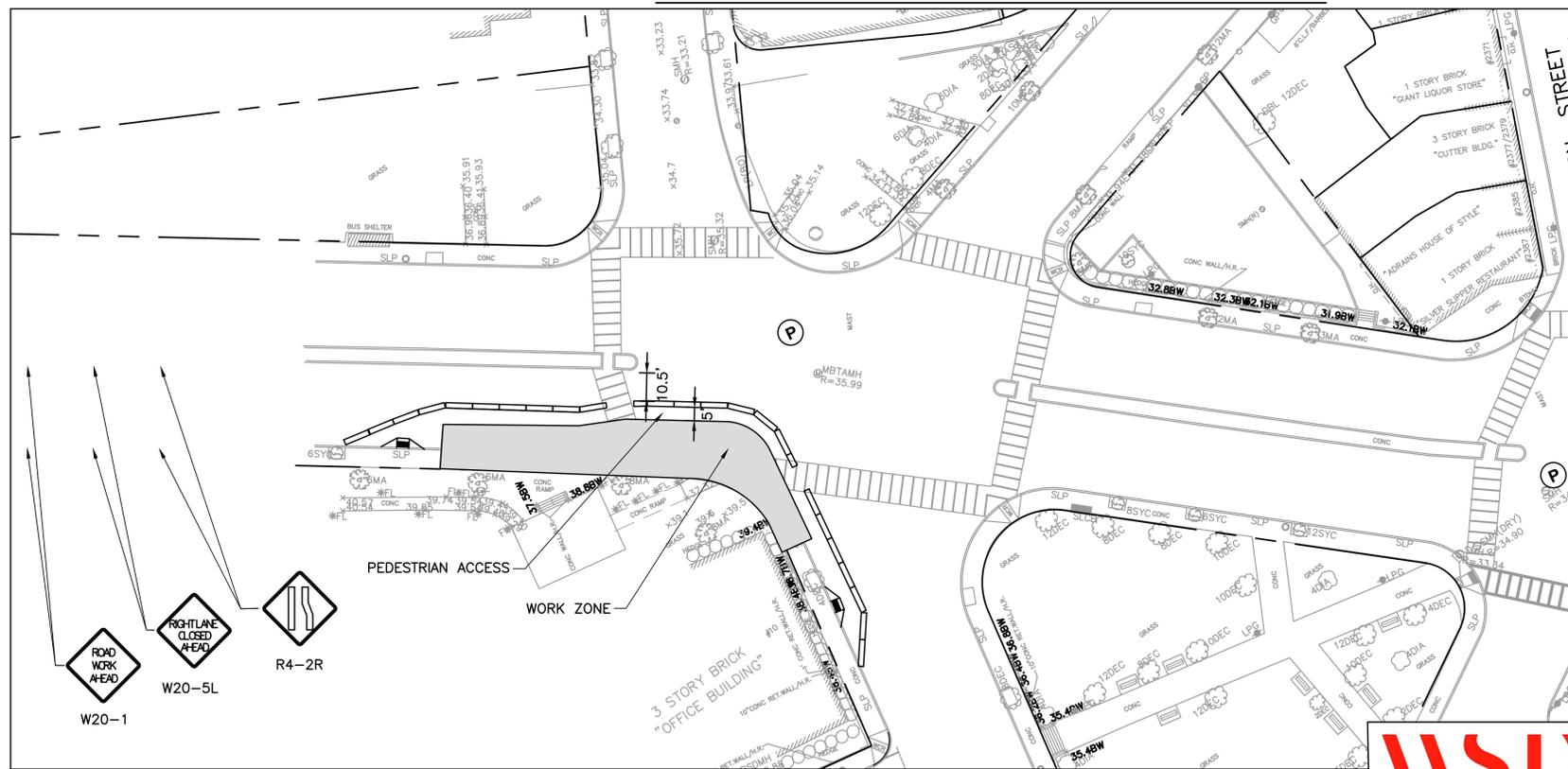
 CITY ENGINEER

R-XXXX-104





DUDLEY STREET SOUTH SIDEWALK CONSTRUCTION STAGING A



DUDLEY STREET SOUTH SIDEWALK CONSTRUCTION STAGING B

NOTES:

1. CLOSURE FOR DUDLEY STREET SOUTH SIDEWALK RECONSTRUCTION.
2. ACCESS TO ADJACENT BUSINESSES AND DUDLEY LIBRARY MUST BE MAINTAINED AT ALL TIMES.
3. PEDESTRIAN PASSAGE SHALL BE A 5' MINIMUM.
4. TRAVEL LANES SHALL BE A 10' MINIMUM EXCEPT AS NOTED.
5. CONSTRUCTION SCHEDULE WILL BE COORDINATED WITH DUDLEY LIBRARY CONSTRUCTION.
6. CONTRACTOR SHALL MAINTAIN ACCESS TO LIBRARY CONSTRUCTION GATES DURING ALL PHASES OF STREET WORK.

CMP LEGEND

	TRAFFIC FLOW ARROW
	SIGN POST
	HANDICAP RAMP
	DRUM
	TYPE III BARRICADE
	POLICE DETAIL SYMBOL
	TEMPORARY CONCRETE BARRIER

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY BRYANT ASSOCIATES
 DRAWN BY A.DALLY
 CHECKED BY P.FUSCO
 APPROVED BY J.CONLEY

CIP XX-XX SHEET 105 OF 117

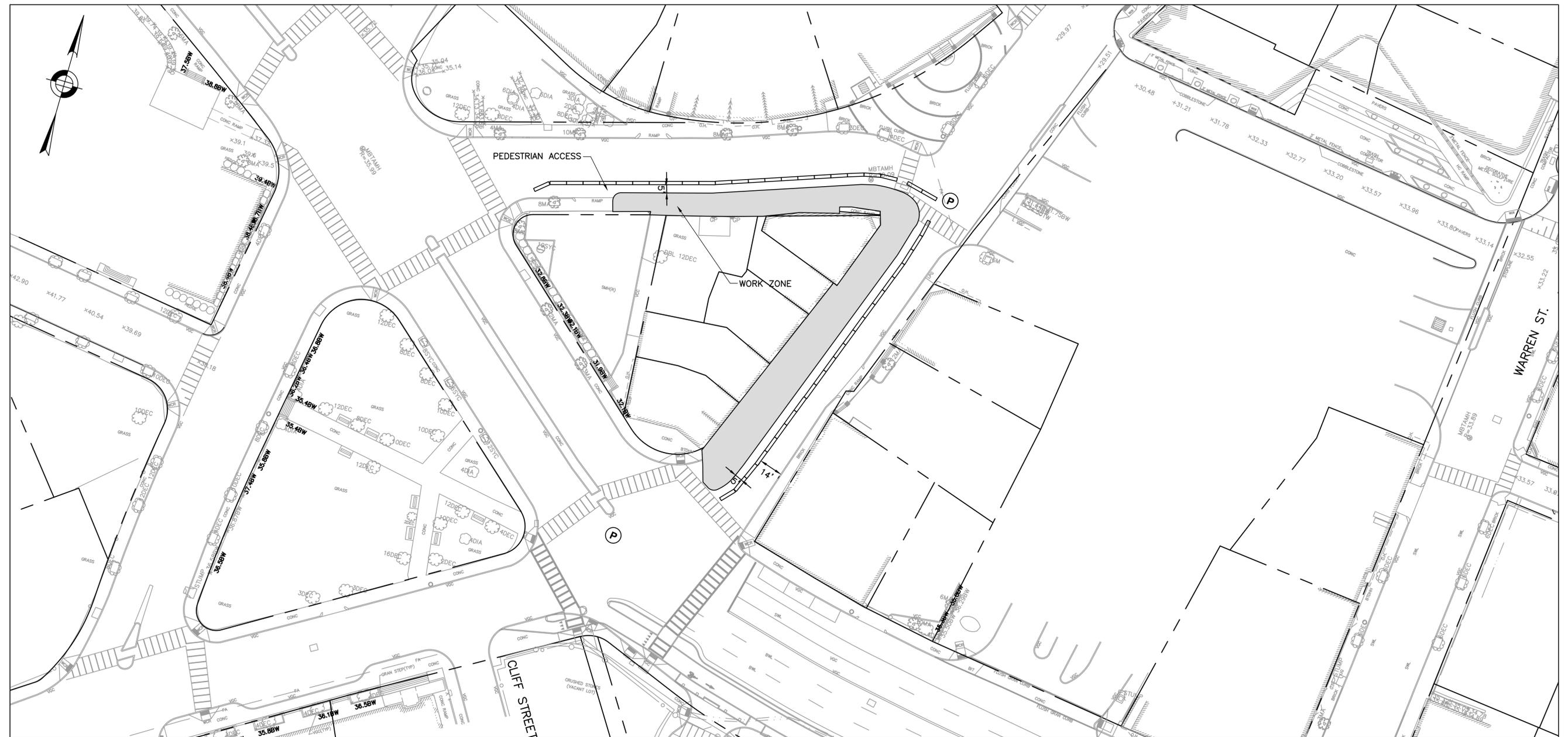
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
DUDLEY STREET CMP SOUTH SIDEWALK
 ROXBURY

SCALE: 1" = 30'
 DISTRICT: 10
 AREA: 1
 DATE: FEB. 7, 2019

CITY ENGINEER

R-XXXX-105





ROXBURY STREET EAST SIDEWALK & WASHINGTON STREET WEST SIDEWALK CONSTRUCTION STAGING

NOTES:

1. CLOSURE FOR ROXBURY STREET EAST SIDEWALK & WASHINGTON STREET WEST SIDEWALK RECONSTRUCTION.
2. ACCESS TO ADJACENT BUSINESSES AND DUDLEY LIBRARY MUST BE MAINTAINED AT ALL TIMES.
3. PEDESTRIAN PASSAGE SHALL BE A 5' MINIMUM.
4. TRAVEL LANES SHALL BE A 10' MINIMUM EXCEPT AS NOTED.
5. CONSTRUCTION SCHEDULE WILL BE COORDINATED WITH DUDLEY LIBRARY CONSTRUCTION.
6. CONTRACTOR SHALL MAINTAIN ACCESS TO LIBRARY CONSTRUCTION GATES DURING ALL PHASES OF STREET WORK.

CMP LEGEND

	TRAFFIC FLOW ARROW
	SIGN POST
	HANDICAP RAMP
	DRUM
	TYPE III BARRICADE
	POLICE DETAIL SYMBOL
	TEMPORARY CONCRETE BARRIER

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY A.DALLY

CHECKED BY P.FUSCO

APPROVED BY J.CONLEY

CIP XX-XX SHEET 106 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION

DUDLEY SQUARE PHASE 2
ROXBURY ST & WASHINGTON ST CMP SIDEWALK
 ROXBURY

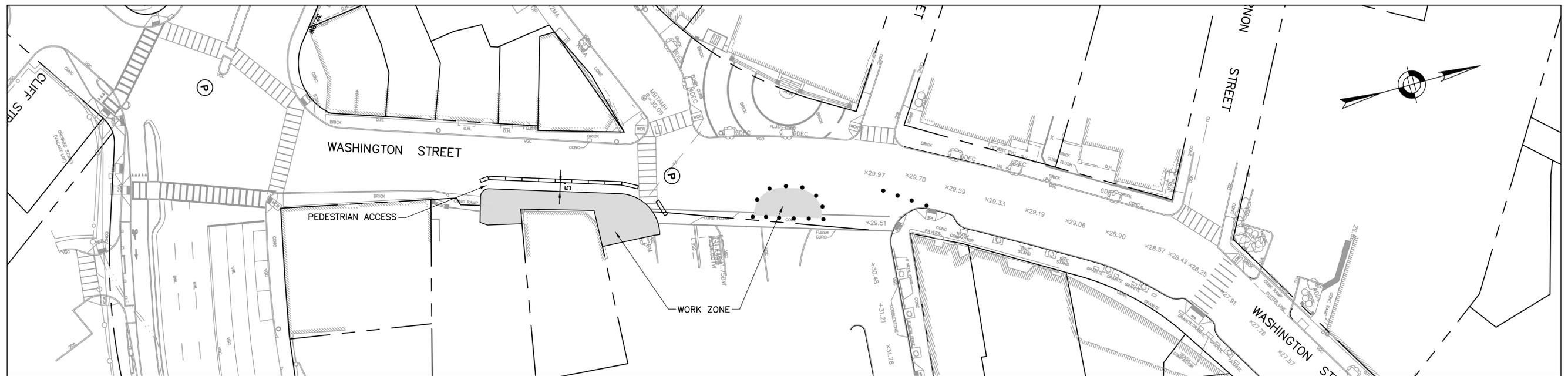
SCALE: 1" = 30'
 DISTRICT: 10

AREA: 1
 DATE: FEB. 7, 2019

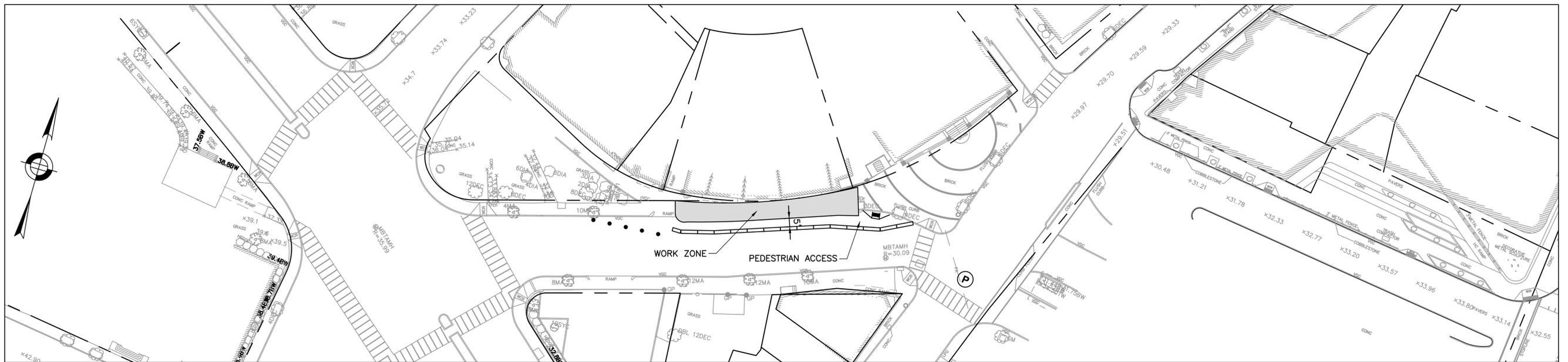
 CITY ENGINEER



R-XXXX-106



WASHINGTON STREET EAST SIDEWALK CONSTRUCTION STAGING



ROXBURY STREET WEST SIDEWALK CONSTRUCTION STAGING

NOTES:

1. CLOSURE FOR ROXBURY STREET WEST SIDEWALK & WASHINGTON STREET EAST SIDEWALK RECONSTRUCTION.
2. ACCESS TO ADJACENT BUSINESSES AND DUDLEY LIBRARY MUST BE MAINTAINED AT ALL TIMES.
3. PEDESTRIAN PASSAGE SHALL BE A 5' MINIMUM.
4. TRAVEL LANES SHALL BE A 10' MINIMUM EXCEPT AS NOTED.
5. CONSTRUCTION SCHEDULE WILL BE COORDINATED WITH DUDLEY LIBRARY CONSTRUCTION.
6. CONTRACTOR SHALL MAINTAIN ACCESS TO LIBRARY CONSTRUCTION GATES DURING ALL PHASES OF STREET WORK.

CMP LEGEND

	TRAFFIC FLOW ARROW
	SIGN POST
	HANDICAP RAMP
	DRUM
	TYPE III BARRICADE
	POLICE DETAIL SYMBOL
	TEMPORARY CONCRETE BARRIER

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY A.DALLY

CHECKED BY P.FUSCO

APPROVED BY J.CONLEY

CIP XX-XX SHEET 107 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
ROXBURY ST & WASHINGTON ST CMP SIDEWALK
 ROXBURY

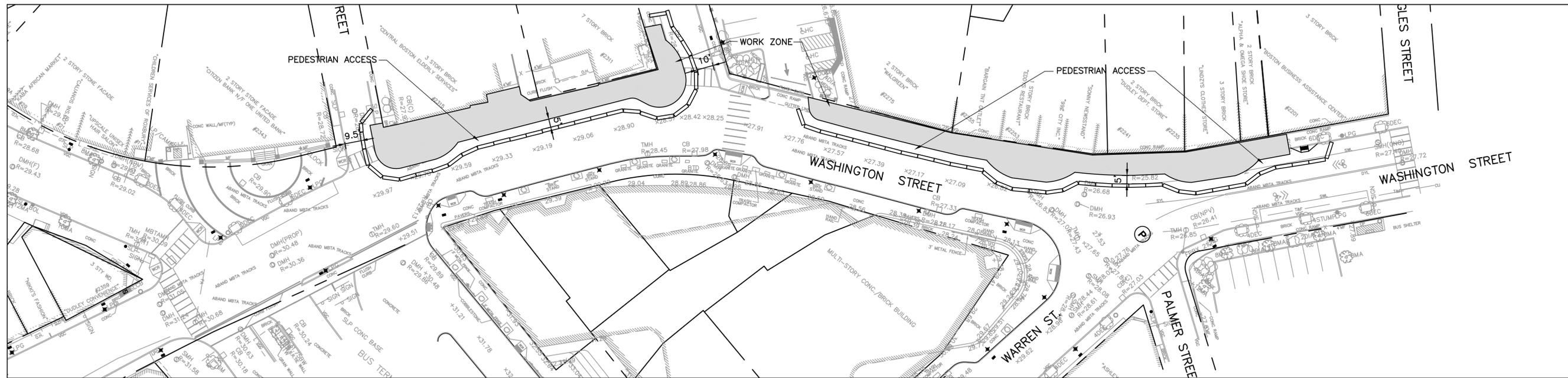
SCALE: 1" = 30'
 DISTRICT: 10

AREA: 1
 DATE: FEB. 7, 2019

 CITY ENGINEER



R-XXXX-107



WASHINGTON STREET WEST SIDEWALK CONSTRUCTION STAGING A



WASHINGTON STREET WEST SIDEWALK CONSTRUCTION STAGING B

NOTES:

1. CLOSURE FOR WASHINGTON STREET WEST SIDEWALK RECONSTRUCTION.
2. ACCESS TO ADJACENT BUSINESSES AND DUDLEY LIBRARY MUST BE MAINTAINED AT ALL TIMES.
3. PEDESTRIAN PASSAGE SHALL BE A 5' MINIMUM.
4. TRAVEL LANES SHALL BE A 10' MINIMUM EXCEPT AS NOTED.
5. CONSTRUCTION SCHEDULE WILL BE COORDINATED WITH DUDLEY LIBRARY CONSTRUCTION.
6. CONTRACTOR SHALL MAINTAIN ACCESS TO LIBRARY CONSTRUCTION GATES DURING ALL PHASES OF STREET WORK.

CMP LEGEND

	TRAFFIC FLOW ARROW
	SIGN POST
	HANDICAP RAMP
	DRUM
	TYPE III BARRICADE
	POLICE DETAIL SYMBOL
	TEMPORARY CONCRETE BARRIER

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY A.DALLY

CHECKED BY P.FUSCO

APPROVED BY J.CONLEY

CIP XX-XX SHEET 108 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

DUDLEY SQUARE PHASE 2
WASHINGTON STREET CMP WEST SIDEWALK
ROXBURY

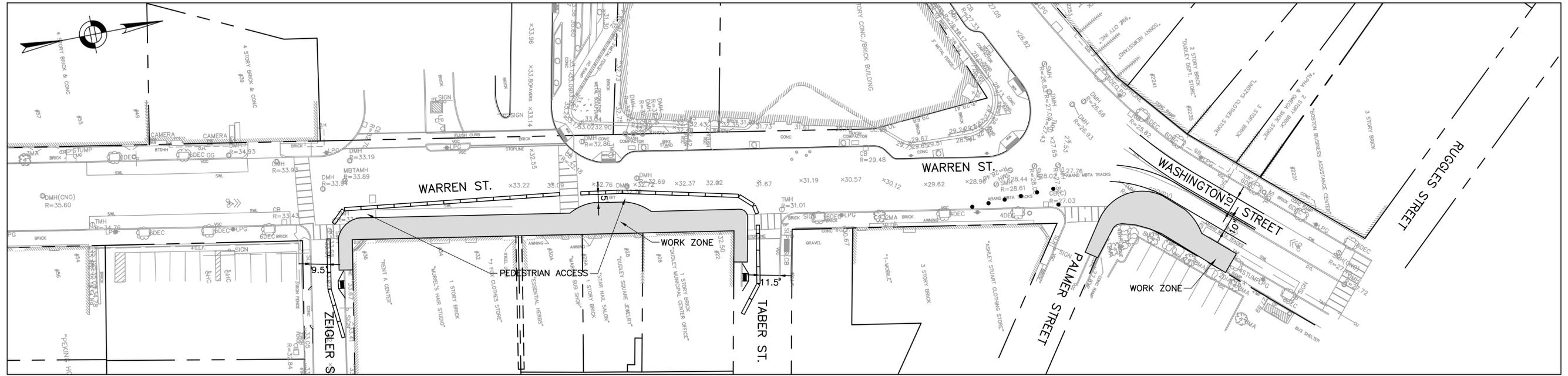
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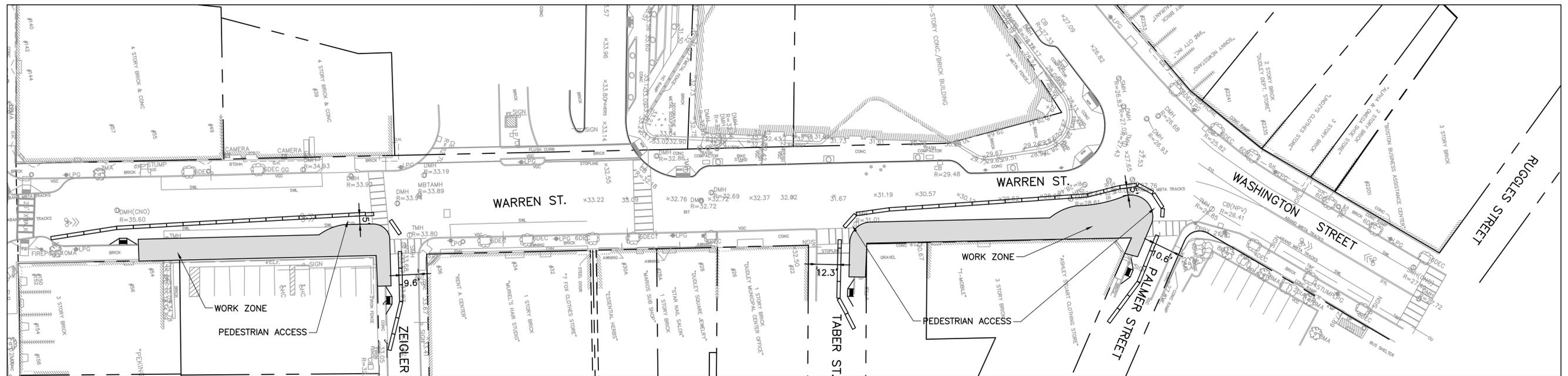
CITY ENGINEER



R-XXXX-108



WARREN STREET EAST SIDEWALK CONSTRUCTION STAGING A



WARREN STREET EAST SIDEWALK CONSTRUCTION STAGING B

- NOTES:**
1. CLOSURE FOR WARREN STREET EAST SIDEWALK RECONSTRUCTION.
 2. ACCESS TO ADJACENT BUSINESSES AND DUDLEY LIBRARY MUST BE MAINTAINED AT ALL TIMES.
 3. PEDESTRIAN PASSAGE SHALL BE A 5' MINIMUM.
 4. TRAVEL LANES SHALL BE A 10' MINIMUM EXCEPT AS NOTED.
 5. CONSTRUCTION SCHEDULE WILL BE COORDINATED WITH DUDLEY LIBRARY CONSTRUCTION.
 6. CONTRACTOR SHALL MAINTAIN ACCESS TO LIBRARY CONSTRUCTION GATES DURING ALL PHASES OF STREET WORK.
- R-XXXX-###

CMP LEGEND

	TRAFFIC FLOW ARROW
	SIGN POST
	HANDICAP RAMP
	DRUM
	TYPE III BARRICADE
	POLICE DETAIL SYMBOL
	TEMPORARY CONCRETE BARRIER



REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY	BRYANT ASSOCIATES
DRAWN BY	A.DALLY
CHECKED BY	P.FUSCO
APPROVED BY	J.CONLEY

CIP XX-XX SHEET 109 OF 117

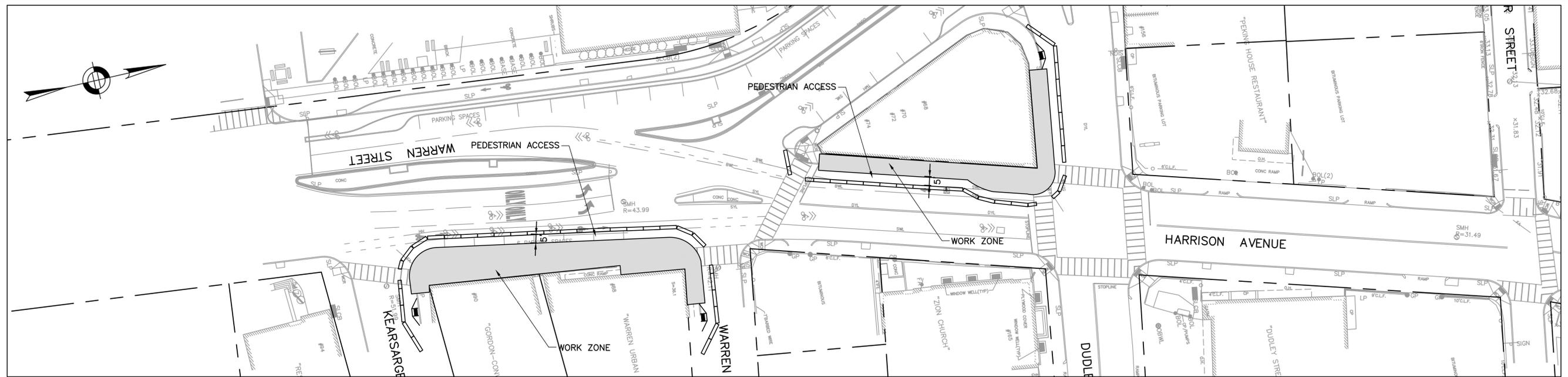
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

DUDLEY SQUARE PHASE 2
WARREN STREET CMP EAST SIDEWALK
ROXBURY

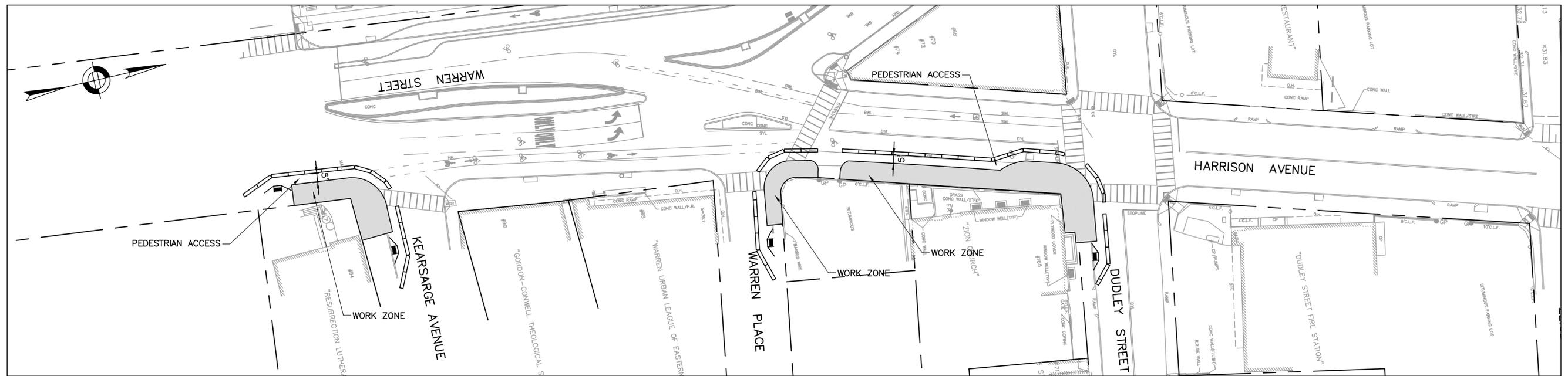
SCALE: 1" = 30'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER



HARRISON AVENUE WEST & WARREN STREET EAST SIDEWALK CONSTRUCTION STAGING



HARRISON AVENUE & WARREN STREET EAST SIDEWALK CONSTRUCTION STAGING

NOTES:

1. CLOSURE FOR HARRISON AVENUE & WARREN STREET SIDEWALK RECONSTRUCTION.
2. ACCESS TO ADJACENT BUSINESSES AND DUDLEY LIBRARY MUST BE MAINTAINED AT ALL TIMES.
3. PEDESTRIAN PASSAGE SHALL BE A 5' MINIMUM.
4. TRAVEL LANES SHALL BE A 10' MINIMUM.
5. CONSTRUCTION SCHEDULE WILL BE COORDINATED WITH DUDLEY LIBRARY CONSTRUCTION.
6. CONTRACTOR SHALL MAINTAIN ACCESS TO LIBRARY CONSTRUCTION GATES DURING ALL PHASES OF STREET WORK.

CMP LEGEND	
	TRAFFIC FLOW ARROW
	SIGN POST
	HANDICAP RAMP
	DRUM
	TYPE III BARRICADE
	POLICE DETAIL SYMBOL
	TEMPORARY CONCRETE BARRIER

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY A.DALLY

CHECKED BY P.FUSCO

APPROVED BY J.CONLEY

CIP XX-XX SHEET 111 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION

DUDLEY SQUARE PHASE 2
HARRISON AVE & WARREN ST CMP SIDEWALK
ROXBURY

SCALE: 1" = 30'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER



R-XXXX-111

IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		UNIT AREA SF	TEXT	TEXT DIMENSIONS	NUMBER OF SIGNS REQUIRED	COLOR	POST SIZE AND NUMBER REQUIRED PER SIGN	AREA IN SQUARE FEET
	WIDTH	HEIGHT							
M4-9bL	30"	24"	5		SEE BOSTON TRANSPORTATION DEPARTMENT STANDARD DETAIL	5	SEE BOSTON TRANSPORTATION DEPARTMENT STANDARD DETAIL	BTD SPEC. MOUNT ON MAST ARM/POST	25
M4-9	30"	24"	5			1			5
M4-9bR	30"	24"	5			5			25
R-1	30"	30"	5.2			1			5.2
R4-2L	36"	36"	9			1			9
R4-7a	24"	30"	5			3			15
R4-7aL	24"	30"	5			1			5
R1-19	30"	30"	6.25			2			12.5
R9-9	12"	24"	2			5			10
R9-11a	12"	30"	2.5			1			2.5
T-23	12"	18"	1.5			12			18
W1-4L	36"	36"	9			1			9
W1-4R	36"	36"	9			1			9
W20-1	36"	36"	9			8			72
W20-5L	36"	36"	9			2			18
W20-5R	36"	36"	9			2			18

NOTES- SIGN SUMMARY

- SIGN SUMMARY APPLIES TO TYPICAL APPLICATIONS DESCRIBED IN CMP PHASE 1 THROUGH CMP PHASE 3.
- SIGN SUMMARY IS CUMULATIVE OF REQUIRED SIGNAGE FOR CMP PHASE 1 THROUGH CMP PHASE 3; CONTRACTOR TO DETERMINE IF SIGNS CAN BE REUSED.

IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		UNIT AREA SF	TEXT	TEXT DIMENSIONS	NUMBER OF SIGNS REQUIRED	COLOR	POST SIZE AND NUMBER REQUIRED PER SIGN	AREA IN SQUARE FEET
	WIDTH	HEIGHT							
SP-1	36"	36"	9			2			18
SP-1	36"	36"	9			2			18
SP-2	48"	36"	12			1			12

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

CIP XX-XX SHEET ## OF 117

BOSTON TRANSPORTATION DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY A.DALLY

CHECKED BY P.FUSCO

APPROVED BY J.CONLEY

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
CMP TRAFFIC SIGN SUMMARY
ROXBURY

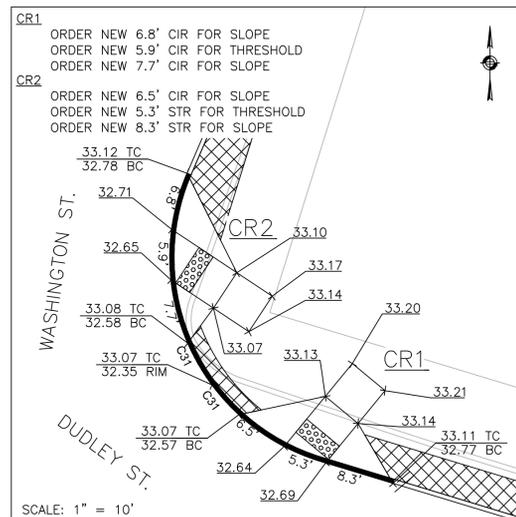
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DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

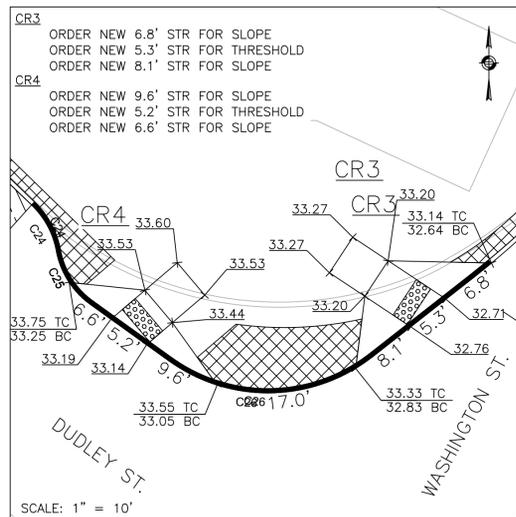
CITY ENGINEER



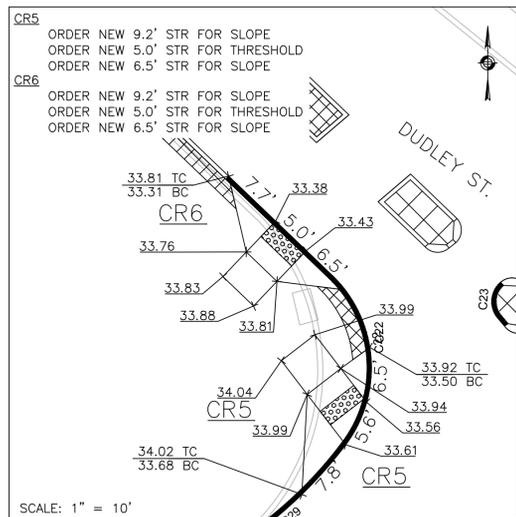
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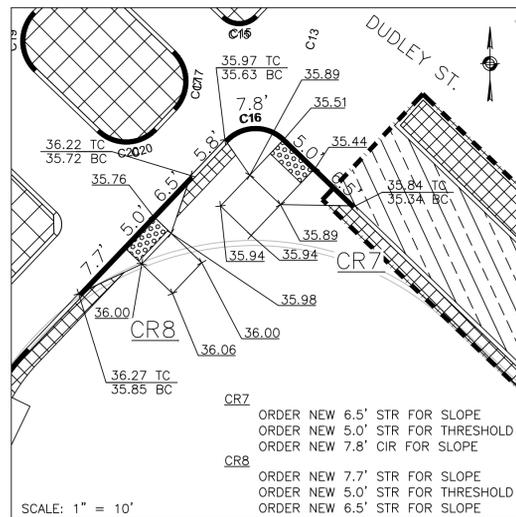
SCALE: 1" = 10'
PROP. CONC RAMP #1 (CR1)
& #2 (CR2)



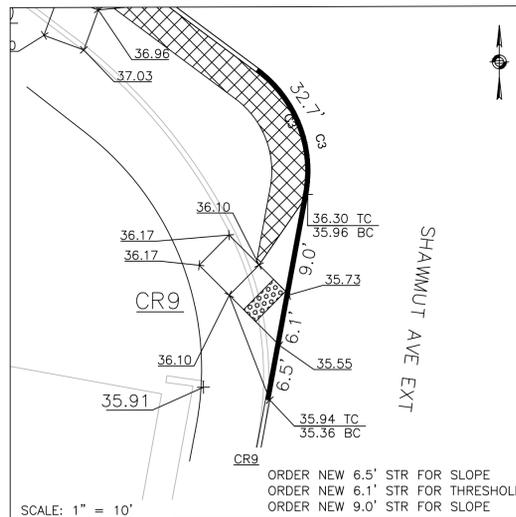
SCALE: 1" = 10'
PROP. CONC RAMP #3 (CR3)
& #4 (CR4)



SCALE: 1" = 10'
PROP. CONC RAMP #5 (CR5)
& #6 (CR6)



SCALE: 1" = 10'
PROP. CONC RAMP #7 (CR7)
& #8 (CR8)



SCALE: 1" = 10'
PROP. CONC RAMP #9 (CR9)

LEGEND	
	PROPOSED CURB
	R&R CURB
	PROPOSED CEMENT CONCRETE PEDESTRIAN RAMP WITH DETECTABLE WARNING PANEL
	PERMEABLE CONCRETE PAVERS

GENERAL NOTES

1. ALL SIDEWALKS AND PEDESTRIAN RAMPS SHALL CONFORM TO THE REQUIREMENTS OF THE ARCHITECTURAL ACCESS BOARD (AAB) AND THE AMERICAN WITH DISABILITIES ACT (ADA). SIDEWALK CROSS SLOPES, AS INDICATED INT EH STANDARD SPECIFICATIONS, WILL BE 1.5% (±0.5% CONSTRUCTION TOLERANCE), CEMENT CONCRETE. LEVEL LANDINGS SHALL NOT EXCEED A SLOPE OF 1.5% (±0.5% CONSTRUCTION TOLERANCE) IN ANY DIRECTION.
- 2.
3. THE LENGTHS OF NEW AND EXISTING STRAIGHT AND CIRCULAR EDGESTONE USED TO CONSTRUCT PROPOSED PEDESTRIAN RAMPS ARE LISTED IN A CLOCKWISE MANNER.
4. A DETECTABLE WARNING PANEL SHALL BE INSTALLED IN ALL PROPOSED PEDESTRIAN RAMPS. THE COLOR SHALL BE PALE YELLOW, CONFORMING TO FEDERAL NO. 23594. FURNISHING AND INSTALLING THE DETECTABLE WARNING PANELS SHALL BE CONSIDERED INCIDENTAL TO ITEM 701.2, CEMENT CONCRETE PEDESTRIAN RAMP. REFER TO ITEM 701.2, CEMENT CONCRETE PEDESTRIAN RAMP, IN THE ADDITIONAL SPECIAL PROVISIONS SECTION FOR SPECIFICATIONS AND DETAILS.

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C3	16.7	15.0	63°56'12"
C16	7.9	5.0	90°00'00"
C22	21.8	15.0	83°22'50"
C24	6.2	10.0	35°41'58"
C25	7.6	10.0	43°48'04"
C26	25.7	20.0	73°32'28"
C31	42.1	25.0	96°28'56"

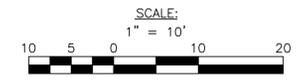
REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

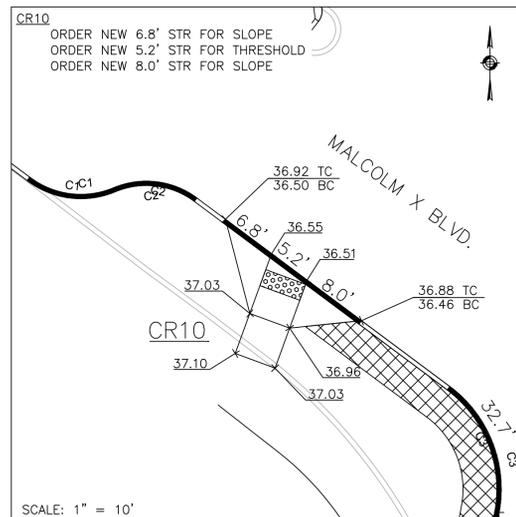
SURVEY BY BRYANT ASSOCIATES
 DRAWN BY J. WEISS
 CHECKED BY S. BERGMAN
 APPROVED BY A. SANTORO

CIP XX-XX SHEET 113 OF 117

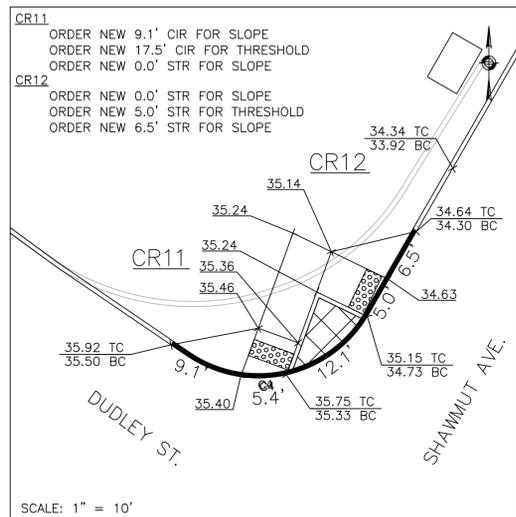
CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
PEDESTRIAN RAMP DETAILS
 ROXBURY
 SCALE: 1" = 10' AREA: 1
 DISTRICT: 10 DATE: FEB. 7, 2019
 CITY ENGINEER



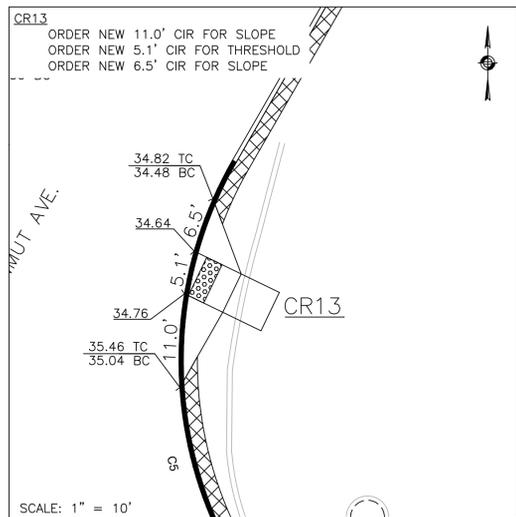
R-3533-113



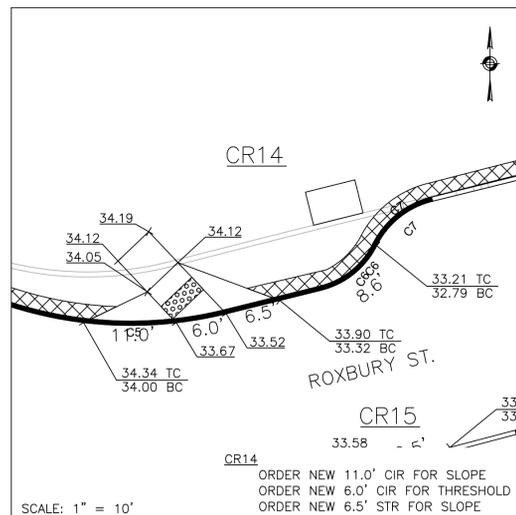
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PROP. CONC RAMP #10 (CR10)



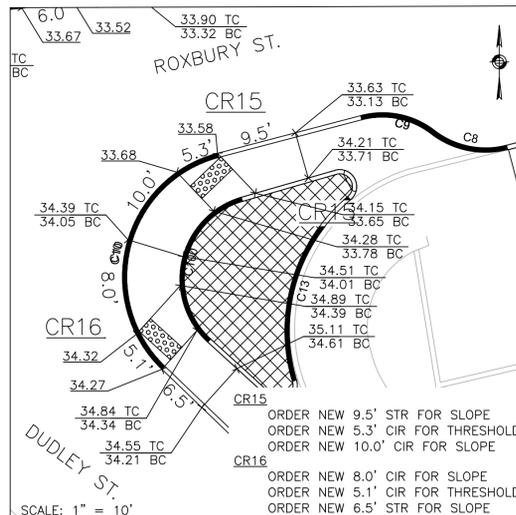
SCALE: 1" = 10'
PROP. CONC RAMP #11 (CR11)
& #12 (CR12)



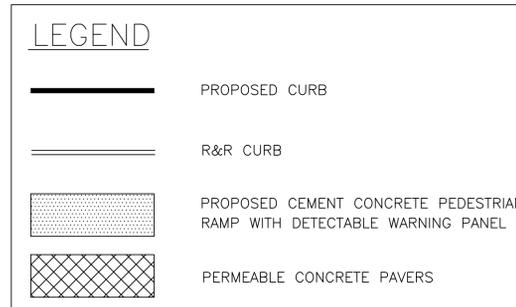
SCALE: 1" = 10'
PROP. CONC RAMP #13 (CR13)



SCALE: 1" = 10'
PROP. CONC RAMP #14 (CR14)



SCALE: 1" = 10'
PROP. CONC RAMP #15 (CR15)
& #16 (CR16)



GENERAL NOTES

1. ALL SIDEWALKS AND PEDESTRIAN RAMPS SHALL CONFORM TO THE REQUIREMENTS OF THE ARCHITECTURAL ACCESS BOARD (AAB) AND THE AMERICAN WITH DISABILITIES ACT (ADA). SIDEWALK CROSS SLOPES, AS INDICATED INT EH STANDARD SPECIFICATIONS, WILL BE 1.5% (±0.5% CONSTRUCTION TOLERANCE), CEMENT CONCRETE. LEVEL LANDINGS SHALL NOT EXCEED A SLOPE OF 1.5% (±0.5% CONSTRUCTION TOLERANCE) IN ANY DIRECTION.
- 2.
3. THE LENGTHS OF NEW AND EXISTING STRAIGHT AND CIRCULAR EDGESTONE USED TO CONSTRUCT PROPOSED PEDESTRIAN RAMPS ARE LISTED IN A CLOCKWISE MANNER.
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CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	10.5	10.0	59°53'34"
C2	10.3	10.0	59°17'01"
C3	16.7	15.0	63°56'12"
C4	24.6	15.0	94°03'36"
C5	109.8	47.0	133°54'30"
C6	8.6	10.0	49°27'31"
C7	8.7	10.0	49°40'58"
C9	9.1	10.0	52°08'24"
C10	31.8	15.0	121°39'11"

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY J. WEISS

CHECKED BY S. BERGMAN

APPROVED BY A. SANTORO

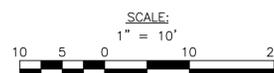
CIP XX-XX SHEET 114 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
PEDESTRIAN RAMP DETAILS
ROXBURY

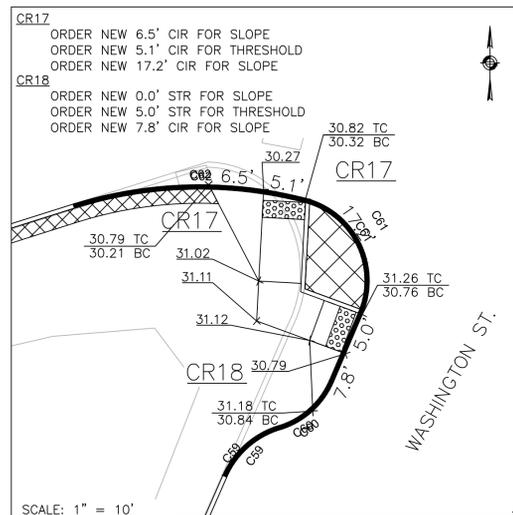
SCALE: 1" = 10'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

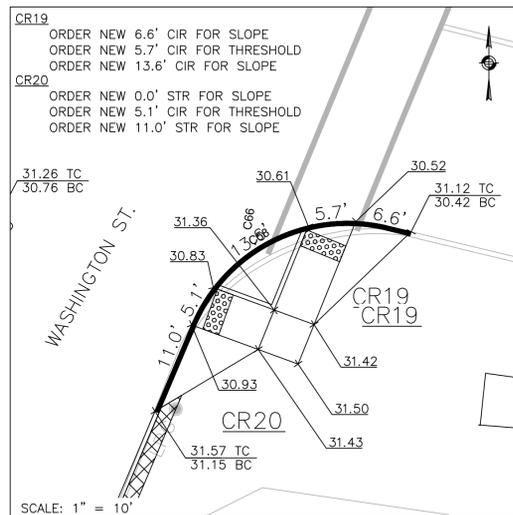
CITY ENGINEER



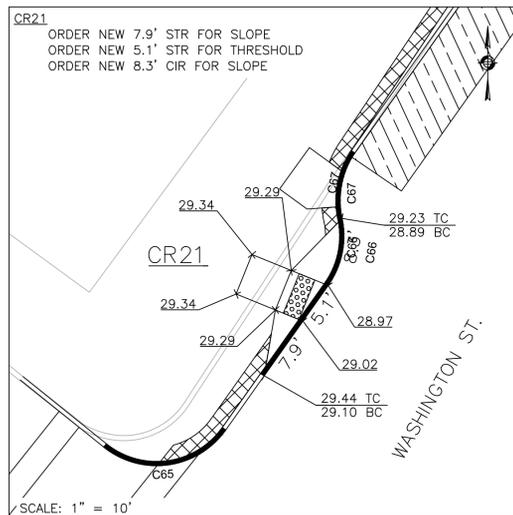
R-3533-114



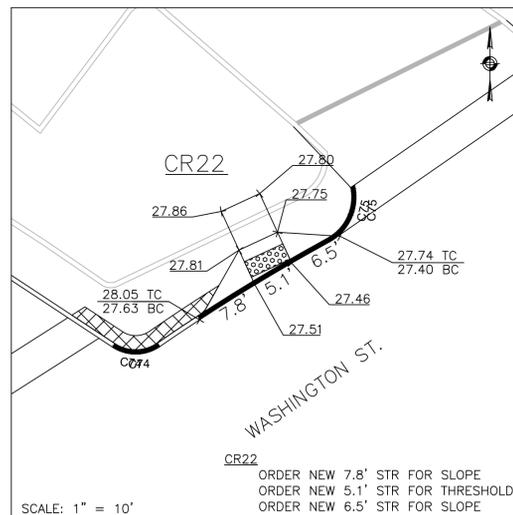
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 PROP. CONC RAMP #17 (CR17)
 & #18 (CR18)



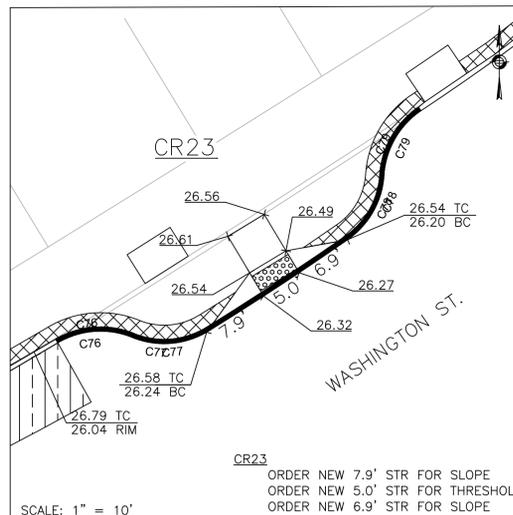
SCALE: 1" = 10'
 PROP. CONC RAMP #19 (CR19)
 & #20 (CR20)



SCALE: 1" = 10'
 PROP. CONC RAMP #21 (CR21)



SCALE: 1" = 10'
 PROP. CONC RAMP #22 (CR22)



SCALE: 1" = 10'
 PROP. CONC RAMP #23 (CR23)

LEGEND	
	PROPOSED CURB
	R&R CURB
	PROPOSED CEMENT CONCRETE PEDESTRIAN RAMP WITH DETECTABLE WARNING PANEL
	PERMEABLE CONCRETE PAVERS

GENERAL NOTES

1. ALL SIDEWALKS AND PEDESTRIAN RAMPS SHALL CONFORM TO THE REQUIREMENTS OF THE ARCHITECTURAL ACCESS BOARD (AAB) AND THE AMERICAN WITH DISABILITIES ACT (ADA). SIDEWALK CROSS SLOPES, AS INDICATED INT EH STANDARD SPECIFICATIONS, WILL BE 1.5% (±0.5% CONSTRUCTION TOLERANCE), CEMENT CONCRETE. LEVEL LANDINGS SHALL NOT EXCEED A SLOPE OF 1.5% (±0.5% CONSTRUCTION TOLERANCE) IN ANY DIRECTION.
- 2.
3. THE LENGTHS OF NEW AND EXISTING STRAIGHT AND CIRCULAR EDGESTONE USED TO CONSTRUCT PROPOSED PEDESTRIAN RAMPS ARE LISTED IN A CLOCKWISE MANNER.
4. A DETECTABLE WARNING PANEL SHALL BE INSTALLED IN ALL PROPOSED PEDESTRIAN RAMPS. THE COLOR SHALL BE PALE YELLOW, CONFORMING TO FEDERAL NO. 23594. FURNISHING AND INSTALLING THE DETECTABLE WARNING PANELS SHALL BE CONSIDERED INCIDENTAL TO ITEM 701.2, CEMENT CONCRETE PEDESTRIAN RAMP. REFER TO ITEM 701.2, CEMENT CONCRETE PEDESTRIAN RAMP, IN THE ADDITIONAL SPECIAL PROVISIONS SECTION FOR SPECIFICATIONS AND DETAILS.

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C58	28.1	20.0	80°24'13"
C59	8.6	10.0	49°32'50"
C60	8.7	10.0	49°57'59"
C61	17.2	10.0	98°46'51"
C62	27.8	50.0	31°50'50"
C65	16.3	10.0	93°14'32"
C66	8.3	10.0	47°24'08"
C67	8.0	10.0	46°04'55"
C74	5.9	5.0	67°51'30"
C75	9.7	5.0	111°06'42"
C76	9.1	10.0	52°21'00"
C77	9.4	10.0	53°45'17"
C78	9.0	10.0	51°28'28"
C79	9.1	10.0	51°58'00"

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY J. WEISS

CHECKED BY S. BERGMAN

APPROVED BY A. SANTORO

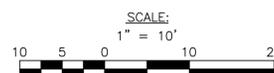
CIP XX-XX SHEET 115 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION
 HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
PEDESTRIAN RAMP DETAILS
 ROXBURY

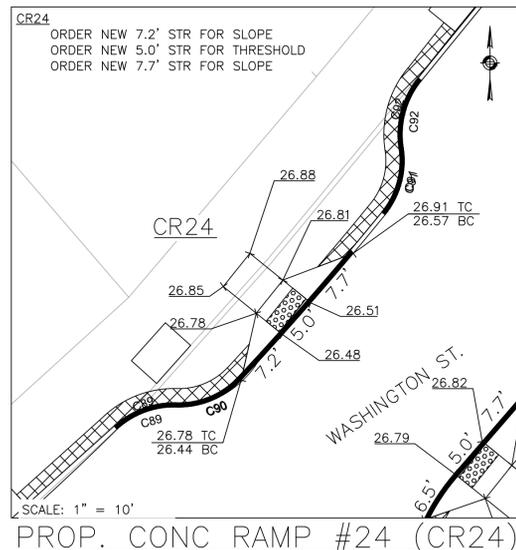
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 DISTRICT: 10

AREA: 1
 DATE: FEB. 7, 2019

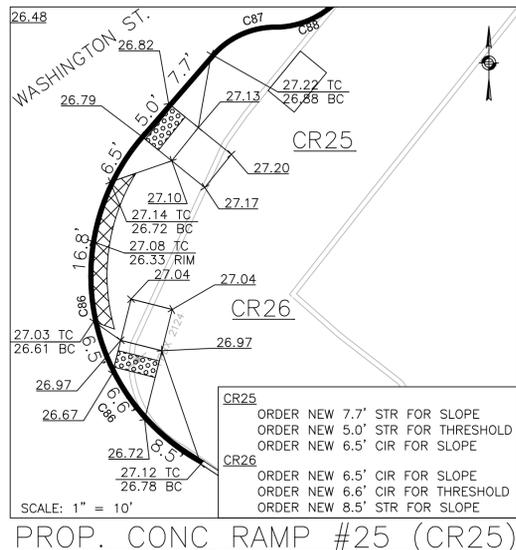
CITY ENGINEER



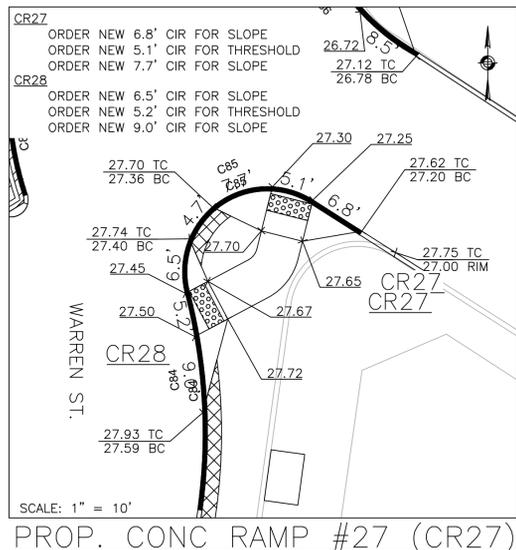
R-3533-115



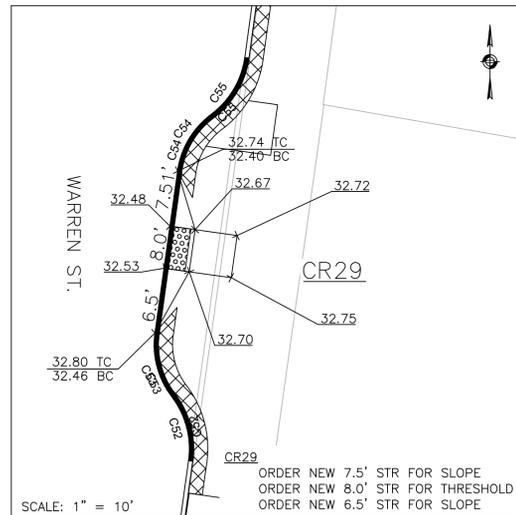
PROP. CONC RAMP #24 (CR24)



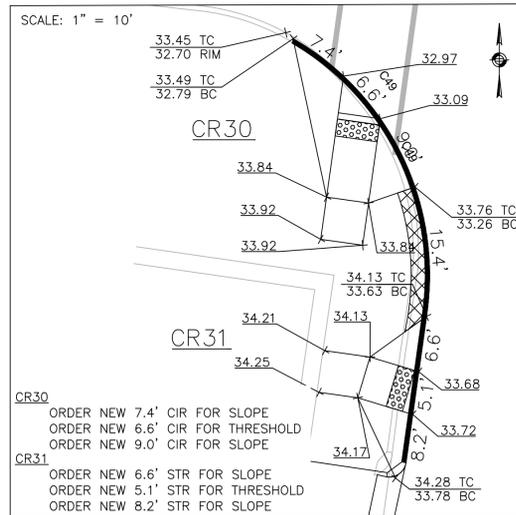
PROP. CONC RAMP #25 (CR25)
& #26 (CR26)



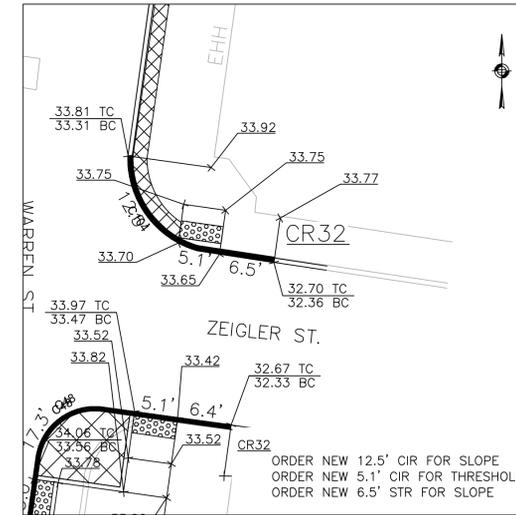
PROP. CONC RAMP #27 (CR27)
& #28 (CR28)



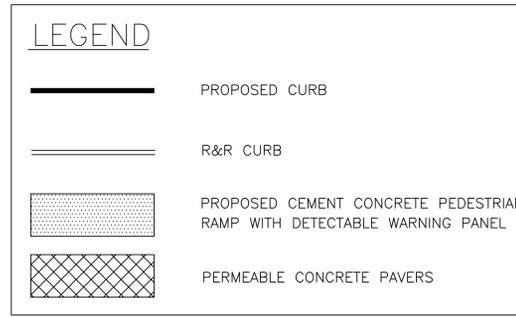
PROP. CONC RAMP #29 (CR29)



PROP. CONC RAMP #30 (CR30)
& #31 (CR31)



PROP. CONC RAMP #32 (CR32)



GENERAL NOTES

1. ALL SIDEWALKS AND PEDESTRIAN RAMPS SHALL CONFORM TO THE REQUIREMENTS OF THE ARCHITECTURAL ACCESS BOARD (AAB) AND THE AMERICAN WITH DISABILITIES ACT (ADA). SIDEWALK CROSS SLOPES, AS INDICATED INT EH STANDARD SPECIFICATIONS, WILL BE 1.5% (±0.5% CONSTRUCTION TOLERANCE), CEMENT CONCRETE. LEVEL LANDINGS SHALL NOT EXCEED A SLOPE OF 1.5% (±0.5% CONSTRUCTION TOLERANCE) IN ANY DIRECTION.
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CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C47	8.0	10.0	45°37'03"
C48	11.0	7.0	89°55'31"
C49	51.1	32.0	89°51'43"
C52	8.0	10.0	45°35'50"
C53	8.0	10.0	45°33'48"
C54	8.0	10.0	45°33'43"
C55	8.0	10.0	45°34'37"
C84	25.6	65.0	22°33'31"
C85	23.9	10.0	136°56'59"
C86	42.8	25.0	98°00'49"
C87	8.5	10.0	48°55'39"
C88	8.8	10.0	50°23'39"
C89	7.7	10.0	44°00'28"
C90	8.5	10.0	48°37'06"
C91	8.4	10.0	48°08'28"
C92	8.4	10.0	48°12'08"

REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY J. WEISS

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APPROVED BY A. SANTORO

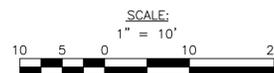
CIP XX-XX SHEET 116 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
PEDESTRIAN RAMP DETAILS
ROXBURY

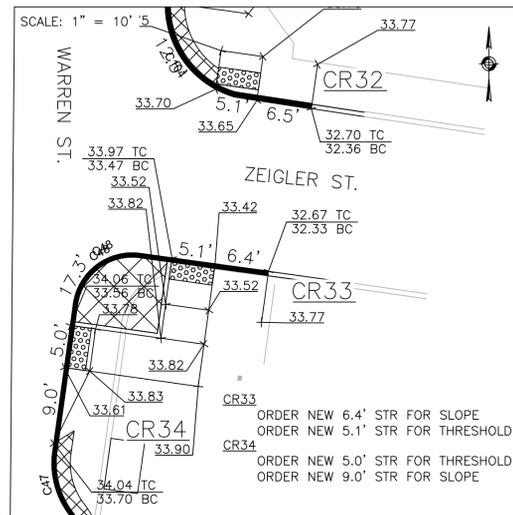
SCALE: 1" = 10'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

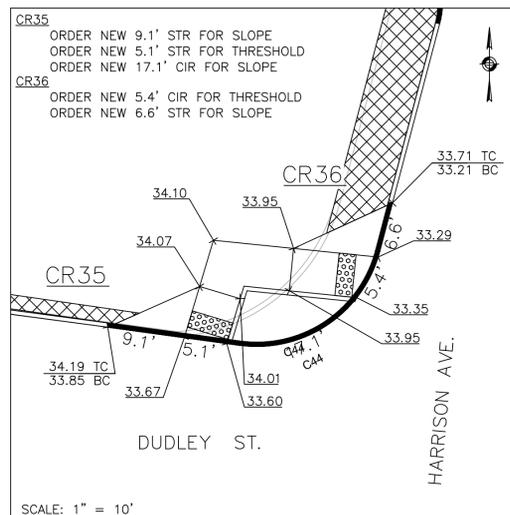
CITY ENGINEER



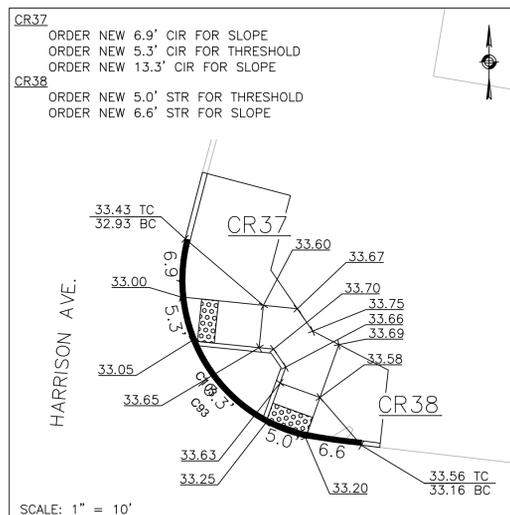
R-3533-116



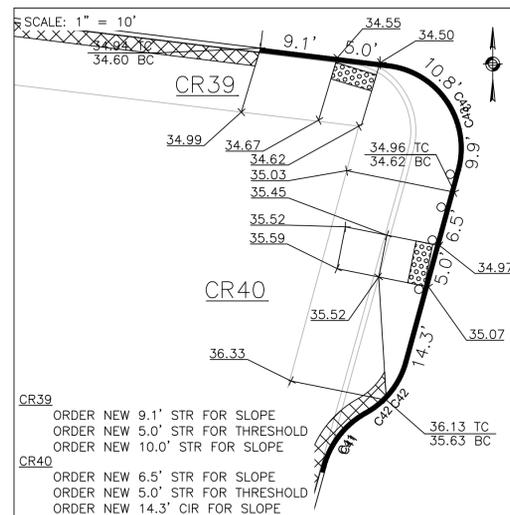
PROP. CONC RAMP #33 (CR33)
& #34 (CR34)



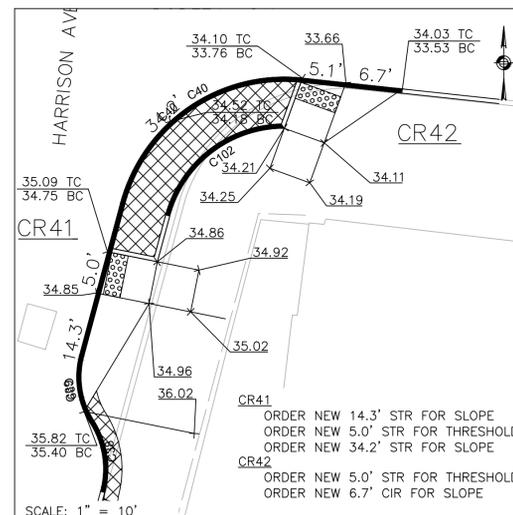
PROP. CONC RAMP #35 (CR35)
& #36 (CR36)



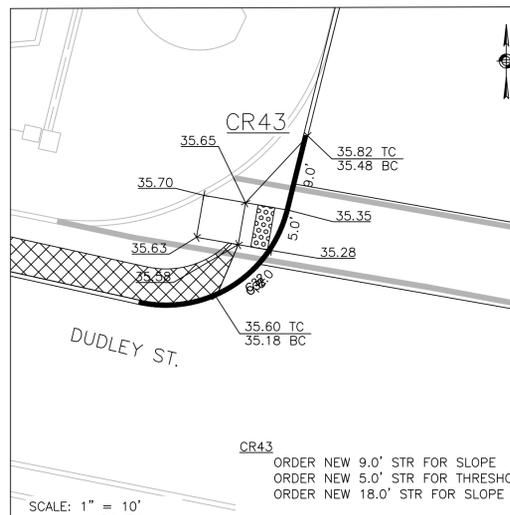
PROP. CONC RAMP #37 (CR37)
& #38 (CR38)



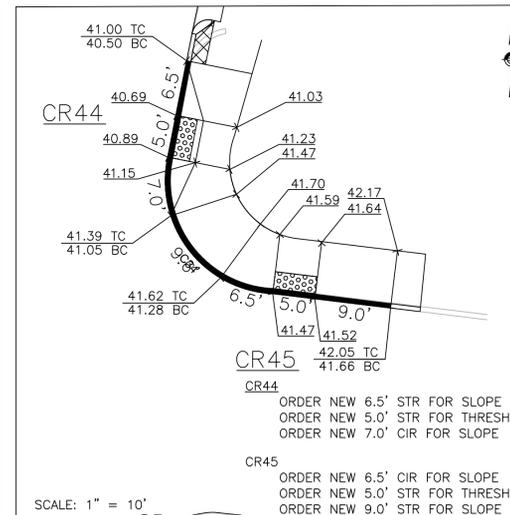
PROP. CONC RAMP #39 (CR39)
& #40 (CR40)



PROP. CONC RAMP #41 (CR41)
& #42 (CR42)



PROP. CONC RAMP #43 (CR43)



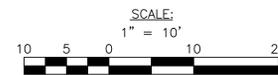
PROP. CONC RAMP #44 (CR44)
& #45 (CR45)

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C32	23.1	15.0	88°23'18"
C33	6.6	6.1	61°37'20"
C34	23.1	13.1	99°27'06"
C38	8.4	10.0	47°55'56"
C39	8.3	10.0	47°47'38"
C40	28.3	20.0	80°59'27"
C41	8.0	10.0	45°36'32"
C42	8.0	10.0	45°51'01"
C43	17.2	10.0	98°26'43"
C44	21.7	15.0	82°58'31"
C45	15.7	10.0	90°09'54"
C47	8.0	10.0	45°37'03"
C48	11.0	7.0	89°55'31"
C93	29.2	20.0	88°24'17"

LEGEND	
	PROPOSED CURB
	R&R CURB
	PROPOSED CEMENT CONCRETE PEDESTRIAN RAMP WITH DETECTABLE WARNING PANEL
	PERMEABLE CONCRETE PAVERS

GENERAL NOTES

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REVIEWED FOR GENERAL DESIGN AND CONFORMITY TO CITY STANDARDS

BOSTON PUBLIC WORKS DEPARTMENT

SURVEY BY BRYANT ASSOCIATES

DRAWN BY J. WEISS

CHECKED BY S. BERGMAN

APPROVED BY A. SANTORO

CIP XX-XX SHEET 117 OF 117

CITY OF BOSTON PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
HIGHWAY RECONSTRUCTION
DUDLEY SQUARE PHASE 2
PEDESTRIAN RAMP DETAILS
ROXBURY

SCALE: 1" = 10'
DISTRICT: 10

AREA: 1
DATE: FEB. 7, 2019

CITY ENGINEER

R-3533-117