



COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS SOLDIERS FIELD ROAD AT EVERETT STREET IN ALLSTON MASSACHUSETTS SUFFOLK COUNTY

DCR CONTRACT NO. P24-3552-C2A

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

MAURA T. HEALEY, GOVERNOR

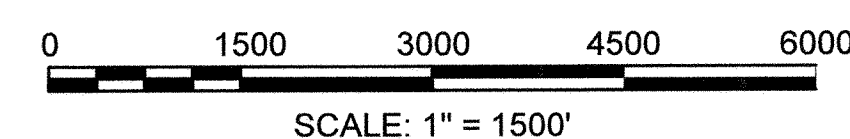
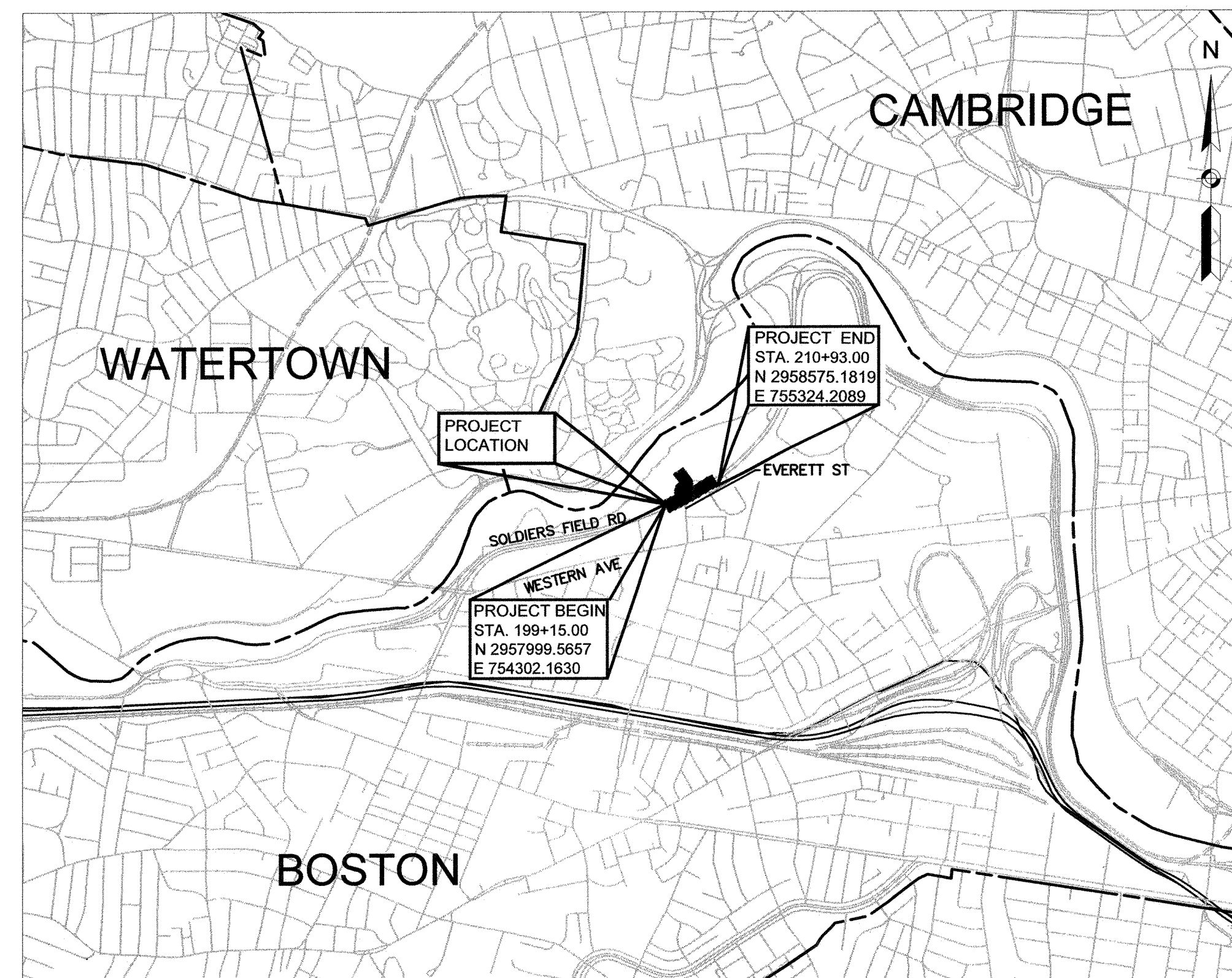
KIMBERLY L. DRISCOLL, LT. GOVERNOR

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EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS

BRIAN ARRIGO, COMMISSIONER
DEPARTMENT OF CONSERVATION & RECREATION

PATRICE KISH, ACTING CHIEF ENGINEER
DEPARTMENT OF CONSERVATION & RECREATION

SHEET NO.	DESCRIPTION
G-01	TITLE SHEET & INDEX
L-01	ABBREVIATIONS
L-02	LEGEND AND GENERAL NOTES
K-01	KEY PLAN
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CS-01 - CS-06	CROSS SECTIONS



LENGTH OF PROJECT = 1,200 FEET = 0.227 MILES



10-2-23

REV.	DATE	DESCRIPTION	BY

Transportation Land Development
Environmental Services
101 Walnut St., P.O. Box 9151
Watertown, MA 02472
617 924 1770 FAX 617 924 2286

COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION DIVISION OF PLANNING AND ENGINEERING			
TRAFFIC SIGNAL IMPROVEMENTS SOLDIERS FIELD ROAD AT EVERETT STREET ALLSTON, MA			
DESIGNER: AL CHECKED: SHK	TITLE SHEET & INDEX		SHEET NO. G-01
DRAWN: AL CHECKED: SHK	CONT. P24-3552-C2A ACC. ---	SCALE: AS NOTED DATE: MAY. 2023	1 OF 37

ABAN	ABANDON
ADJ	ADJUST
APPROX	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
BIT.	BITUMINOUS
BC	BOTTOM OF CURB
BD.	BOUND
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS / CONTINUED
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DIA	DIAMETER
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EQ	EQUAL
EXIST (or EX)	EXISTING
EXC	EXCAVATION
FDN.	FOUNDATION
FDP	FULL DEPTH PAVEMENT
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HWY	HIGHWAY
JCT	JUNCTION
LOAM	LOAM BORROW
LSA	LANDSCAPED AREA
LT	LEFT
MAHWL	MEAN AVERAGE HIGH WATER LINE
MAX	MAXIMUM
MB	MAILBOX
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
MOD	MODIFIED
MSE	MECHANICALLY STABILIZED EARTH
NERR	NEW ENGLAND RAILROAD
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
P.G.L.	PROFILE GRADE LINE
PREV	PREVIOUS/PREVIOUSLY
PROJ	PROJECT
PROP	PROPOSED
PSB	PLANTABLE SOIL BORROW
PVMT	PAVEMENT
R&D	REMOVE AND DISCARD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RD	ROAD
RDWY	ROADWAY
REB	REBUILD
REM	REMOVE
REMOD	REMODEL
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SHLO/S.H.L.O.	STATE HIGHWAY LAYOUT LINE

ST	STREET
STA	STATION
STD	STANDARD
SW	SIDEWALK
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TRANS	TRANSITION
TRM	TURF REINFORCING MAT
TYP	TYPICAL
VAR	VARIES
VERT	VERTICAL
VIF	VERIFY IN FIELD
WCR	WHEEL CHAIR RAMP
WP	WORKING POINT
X-SECT	CROSS SECTION

CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CIP	CAST IRON PIPE
CIT	CHANGE IN TYPE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
DI	DROP INLET
DIP	DUCTILE IRON PIPE
FES	FLARED END SECTION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HDW	HEADWALL
HYD	HYDRANT
INV	INVERT
LB	LEACH BASIN
LP	LIGHT POLE
MH	MANHOLE
MW	MONITORING WELL
OHW	OVERHEAD WIRE
PVC	POLYVINYLCHLORIDE PIPE
PWW	PAVED WATER WAY
RCP	REINFORCED CONCRETE PIPE
SMH	SEWER MANHOLE
TSV&B	TAPPING SLEEVE VALVE & BOX
UP	UTILITY POLE
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN

AP	ANGLE POINT
CC	CENTER OF CURVE
HP	HIGH POINT
I.T.	INTERSECTION OF TANGENT
LP	LOW POINT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PNT	POINT
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
∠PT	ANGLE POINT
R	RADIUS OF CURVATURE
T	TANGENT DISTANCE OF CURVE
<u>TAN</u>	TANGENT
25.45	SPOT ELEVATION


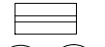









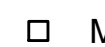









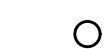









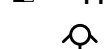



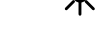



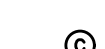

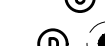







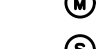





















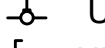

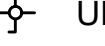

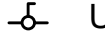

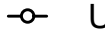








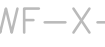






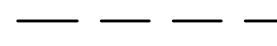

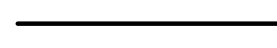

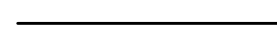
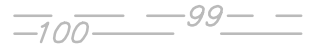
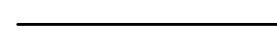

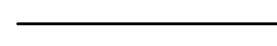

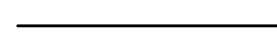

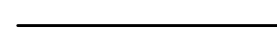

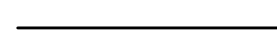

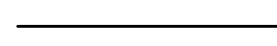

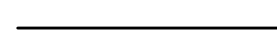



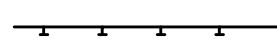



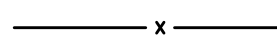

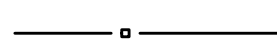



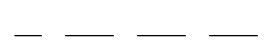

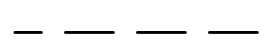

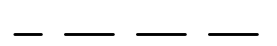




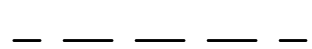





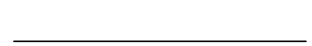









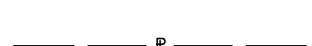



AD	ALGEBRAIC DIFFERENCE IN RATES OF GRADE
HSD	HORIZONTAL SIGHT DISTANCE
K	RATE OF VERTICAL CURVATURE
L	LENGTH OF CURVE
PVC	POINT OF VERTICAL CURVATURE
PVCC	POINT OF VERTICAL COMPOUND CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVRC	POINT OF VERTICAL REVERSE CURVATURE
PVT	POINT OF VERTICAL TANGENCY
SSD	STOPPING SIGHT DISTANCE
VC	VERTICAL CURVE

AADT	ANNUAL AVERAGE DAILY TRAFFIC
CAB.	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
COND	CONDUIT
CW	CROSS WALK
DW	STEADY DON'T WALK - PORTLAND ORANGE
DHV	DESIGN HOURLY VOLUME
FDW	FLASHING DON'T WALK
FR	FLASHING CIRCULAR RED
←FRL→	FLASHING RED LEFT ARROW
←FRR→	FLASHING RED RIGHT ARROW
FY	FLASHING CIRCULAR AMBER
←FYL→	FLASHING AMBER LEFT ARROW
←FYR→	FLASHING AMBER RIGHT ARROW
G	STEADY CIRCULAR GREEN
←GL→	STEADY GREEN LEFT ARROW
←GR→	STEADY GREEN RIGHT ARROW
GSL	STEADY GREEN SLASH LEFT ARROW
GSR	STEADY GREEN SLASH RIGHT ARROW
GV	STEADY GREEN VERTICAL ARROW
HH	HAND HOLE
OL	OVERLAP
PB	PULL BOX
PED	PEDESTRIAN
PTZ	PAN, TILE, ZOOM
←R→	STEADY CIRCULAR RED
←RL→	STEADY RED LEFT ARROW
RR	STEADY RED RIGHT ARROW
SL	STOP LINE
T	TRUCK %
TS OR TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALK
←Y→	STEADY CIRCULAR AMBER
←YL→	STEADY AMBER LEFT ARROW













REV.	DATE	DESCRIPTION	BY
		 <p> Transportation Land Development Environmental Services 101 Walnut St., P.O. Box 9151 Watertown, MA 02472 617 924 1770 FAX 617 924 2286 </p>	

<p align="center">TRAFFIC SIGNAL IMPROVEMENTS</p> <p align="center">SOLDIERS FIELD ROAD AT EVERETT STREET</p> <p align="center">ALLSTON, MA</p>		<p>SHEET NO.</p> <p align="center">L-01</p> <p align="right">2 OF 37</p>	
DESIGNER: AL CHECKED: SHK DRAWN: AL CHECKED: SHK	<p align="center">ABBREVIATIONS</p> <table border="1"> <tr> <td> CONT. P24-3552-C2A ACC. --- </td> <td> SCALE: NONE DATE: MAY. 2023 </td> </tr> </table>		CONT. P24-3552-C2A ACC. ---
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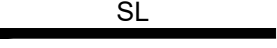





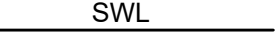



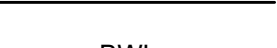

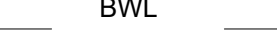



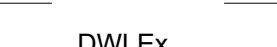

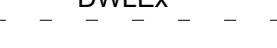




GENERAL SYMBOLS

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

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		SIGN AND POST
		SIGN AND POST (2 POSTS)
		CONTROL CABINET, GROUND MOUNTED
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE
		STOP LINE -WHITE, 12" WIDTH UNLESS OTHERWISE NOTED
		CROSSWALK-WHITE, 12" WIDTH UNLESS OTHERWISE NOTED
		SOLID WHITE LINE, 6" WIDTH
		SOLID YELLOW LINE, 6" WIDTH
		BROKEN WHITE LINE, 10' LINE W/30' SPACING, 6" WIDTH
		BROKEN YELLOW LINE, 10' LINE W/30' SPACING, 6" WIDTH
		DOTTED WHITE LINE, 2' LINE W/6' SPACING, 6" WIDTH
		DOTTED YELLOW LINE, 2' LINE W/6' SPACING, 6" WIDTH
		LONG DASHED WHITE LINE EXTENSION, 3' LINE W/9' SPACING, 6" WIDTH
		DOUBLE YELLOW LINE, 6" WIDTH
		SOLID WHITE CHANNELIZATION LINE, 12" WIDTH UNLESS OTHERWISE NOTED
		SOLID YELLOW CHANNELIZATION LINE, 12" WIDTH UNLESS OTHERWISE NOTED
		BICYCLE LANE MARKING

GENERAL NOTES:

- TOPOGRAPHICAL INFORMATION OBTAINED FROM ACTUAL FIELD SURVEYS CONDUCTED BY VANASSE HANGEN BRUSTLIN, INC. OF WATERTOWN, MA BETWEEN THE DATES OF JULY 2010 AND JUNE 30, 2018.
- THE HORIZONTAL CONTROL IS BASED ON THE MASSACHUSETTS MAINLAND STATE PLANE COORDINATE SYSTEM AND THE NATIONAL GEODETIC SURVEY (NAD83). ALL ELEVATION IS US FEET, REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88).
- THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND GRADES IN THE FIELD BEFORE COMMENCING WORK AND PROMPTLY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
- EXISTING UTILITY POLES WILL BE RELOCATED BY OTHERS IF REQUIRED.
- TREES AND SHRUBS WITHIN THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON APPROVAL OF THE ENGINEER UNLESS NOTED ON THE CONSTRUCTION DOCUMENTS.
- AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE OWNER.
- THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R).
- ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- ALL EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION. THEIR EXACT LOCATIONS ARE NOT GUARANTEED.
- THE CONTRACTOR SHALL EXERCISE DUE CARE WHEN WORKING AROUND ALL PROPERTY BOUNDS WHICH ARE TO REMAIN. SHOULD ANY DAMAGE TO A BOUND RESULT FROM THE ACTIONS OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE THE BOUND REPLACED AND/OR REALIGNED BY A LICENSED PROFESSIONAL SURVEYOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST.
- DISPOSAL OF ALL SURPLUS MATERIAL SHALL BE AS APPROVED BY THE ENGINEER AND OWNER.
- ALL PROPOSED FRAME AND GRATES SHALL BE BICYCLE COMPATIBLE.
- TREE TRIMMING SHALL PROVIDE A MINIMUM OF 8 FOOT VERTICAL CLEARANCE.

CONTRACTOR
PLEASE NOTE



REV.

DATE

DESCRIPTION

BY



Transportation Land Development
Environmental Services
101 Walnut St., P.O. Box 9151
Watertown, MA 02472
617 924 1770 FAX 617 924 2286

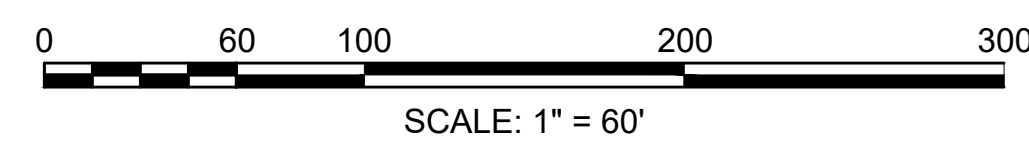
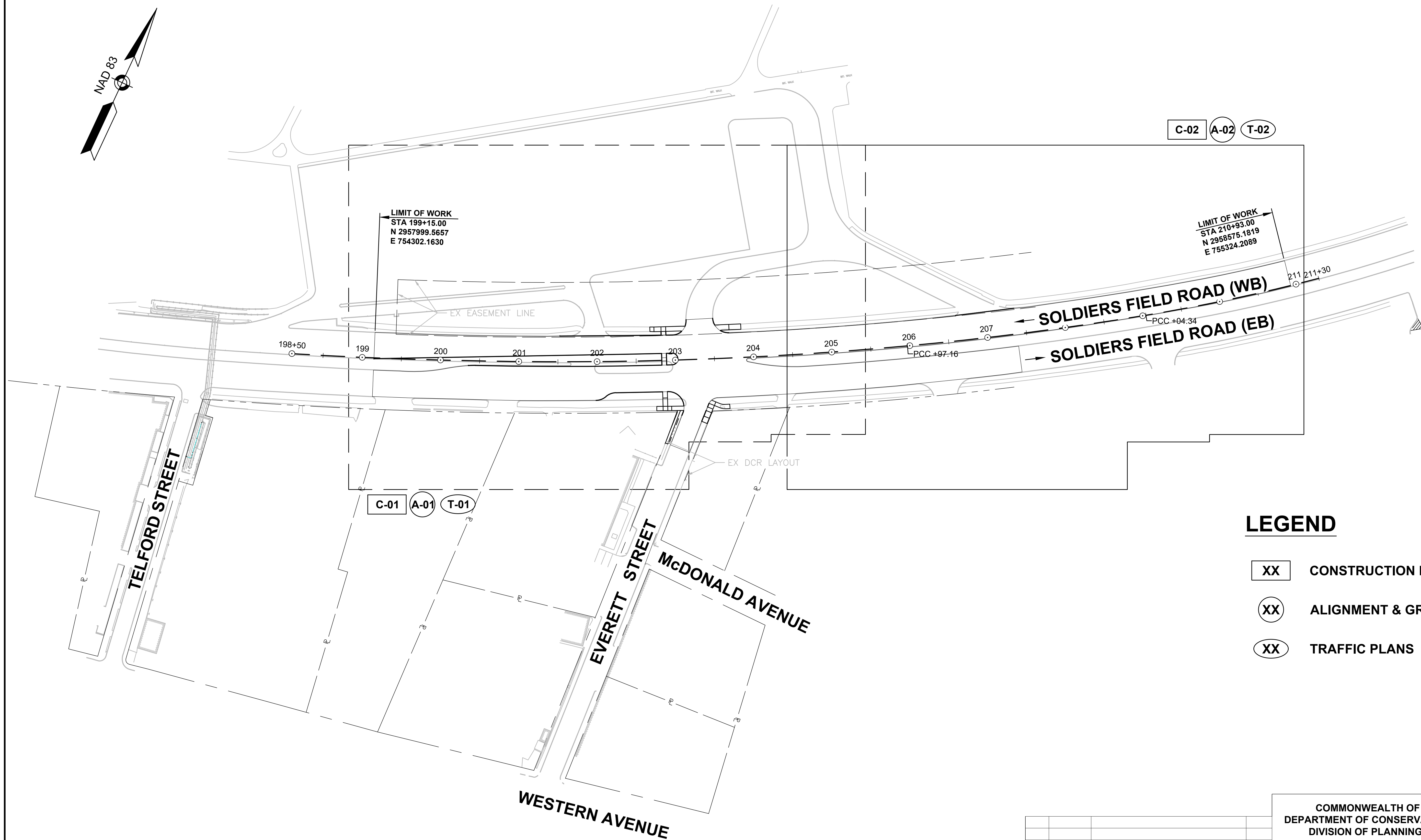
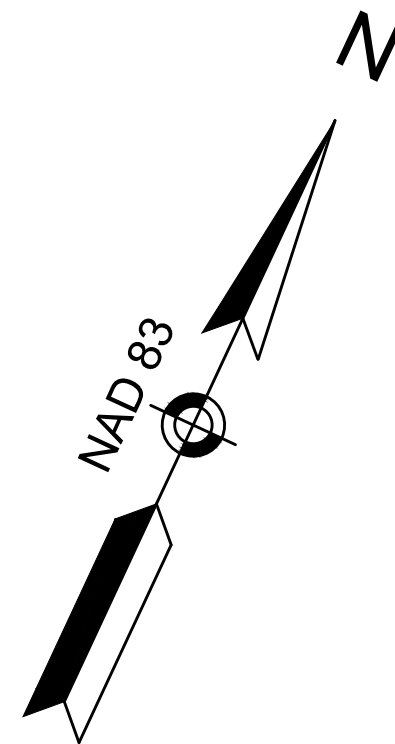
COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS
SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

DESIGNER: AL
CHECKED: SHK
DRAWN: AL
CHECKED: SHK

LEGEND AND GENERAL NOTES
CONT: P24-3552-C2A
ACC. ---
SCALE: NONE
DATE: MAY, 2023

SHEET NO.
L-02
3 OF 37



LEGEND

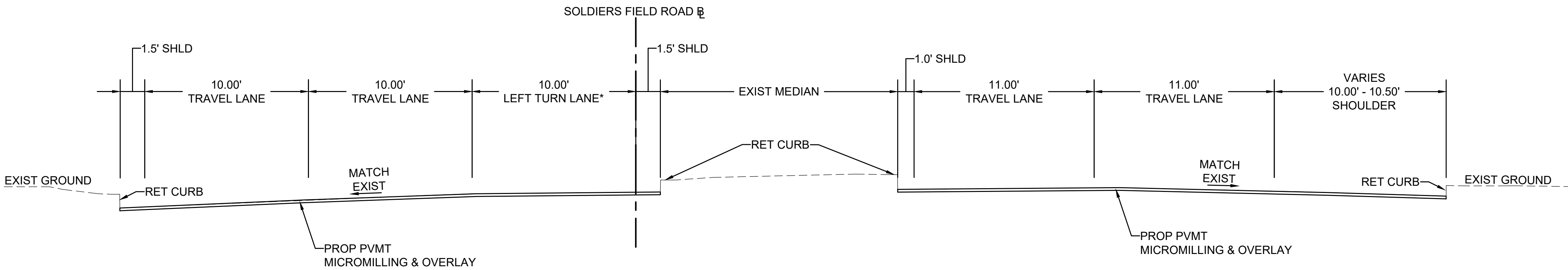
- XX** CONSTRUCTION PLANS
- XX** ALIGNMENT & GRADING PLANS
- XX** TRAFFIC PLANS

REV.	DATE	DESCRIPTION	BY



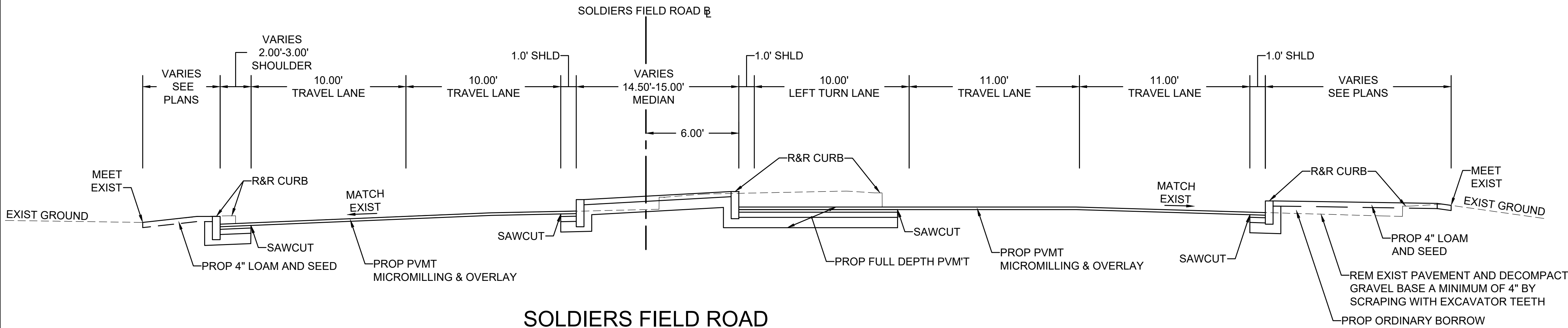
Transportation Land Development
Environmental Services
101 Walnut St., P.O. Box 9151
Watertown, MA 02472
617 924 1770 FAX 617 924 2286

COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION DIVISION OF PLANNING AND ENGINEERING		
TRAFFIC SIGNAL IMPROVEMENTS SOLDIERS FIELD ROAD AT EVERETT STREET ALLSTON, MA		
DESIGNER: AL CHECKED: SHK	KEY PLAN	SHEET NO. K-01
DRAWN: AL CHECKED: SHK	CONT. P24-3552-C2A ACC. ---	SCALE: 1" = 60'-0" DATE: APR. 2023 4 OF 37



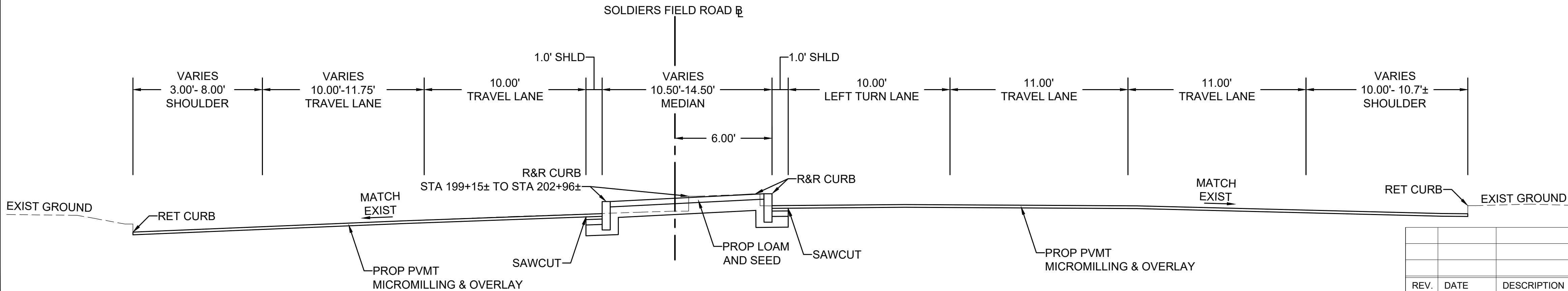
SOLDIERS FIELD ROAD

STA 203+92± TO STA 210+93± NTS



SOLDIERS FIELD ROAD

STA 201+95± TO STA 202+96± NTS



SOLDIERS FIELD ROAD

STA 199+15± TO STA 201+95± NTS

PAVEMENT NOTES

PROPOSED FULL DEPTH PAVEMENT

SURFACE: 1 1/2" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5)
INTERMEDIATE: 2" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5)
BASE COURSE: 4 1/2" SUPERPAVE BASE COURSE 37.5 (SBC-37.5)
SUBBASE: 8" GRAVEL BORROW (TYPE b)

PROPOSED FULL DEPTH PAVEMENT (LESS THAN 4 FEET WIDE)

SURFACE: 1 1/2" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5)
INTERMEDIATE: 2" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5)
BASE COURSE: 6" HIGH EARLY STRENGTH CEMENT CONCRETE BASE
SUBBASE: 8" GRAVEL BORROW (TYPE b)

PROPOSED PAVEMENT MICROMILLING AND OVERLAY

SURFACE: 1 1/2" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5)
MICROMILL: 1 1/2" PAVEMENT MICROMILLING
LEVELING: DEPTH VARIES 1" - 1 1/2" SUPERPAVE LEVELING COURSE - 9.5 (SLC-9.5)

PROPOSED HOT MIX ASPHALT WALK

SURFACE: 1 1/4" SUPERPAVE SURFACE COURSE 9.5 (SSC-9.5) OVER
1 3/4" SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5)
SUBBASE: 8" GRAVEL BORROW, (TYPE b)

PROPOSED CEMENT CONCRETE WHEELCHAIR RAMP / SIDEWALK

SURFACE: 4" CEMENT CONCRETE
AIR ENTRAINED (4000 PSI, 3/4", 610 LB)
SUBBASE: 8" GRAVEL BORROW, (TYPE b)

NOTES:

- ALL HOT MIX ASPHALT PAVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 450 SUPERPAVE HMA SPECIFICATIONS.
- ALL MILLED SURFACES SHALL RECEIVE A TACK COAT APPLIED AT 0.08 GALLONS PER SQUARE YARD AND ALL UNMILLED SURFACES SHALL RECEIVE A TACK COAT APPLIED AT 0.07 GALLONS PER SQUARE YARD PRIOR TO PAVING.
- ALL HOT MIX ASPHALT DRIVEWAYS SHALL BE ESTIMATED AND PAID FOR UNDER ITEM 702. OF THE STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
- HMA JOINT SEALANT (ITEM 453) SHALL BE APPLIED IN SURFACE COURSE AT ALL VERTICAL COLD JOINTS PRIOR TO HMA PAVING.
- SURFACE PAVING TO BE COMPLETED AT THE END OF THE PROJECT AND AS DIRECTED WHEN IT CAN BE PLACED IN ITS ENTIRETY.
- SIDEWALK, DRIVEWAY AND TEMPORARY CONSTRUCTION SHALL USE HOT MIX ASPHALT MIXTURES AND MAY NOT BE SUBJECT TO THE SAME SAMPLING AND TESTING REQUIRED FOR PERMANENT CONSTRUCTION.

REV.	DATE	DESCRIPTION	BY

Transportation Land Development
Environmental Services
101 Walnut St., P.O. Box 9151
Watertown, MA 02472
617 924 1770 FAX 617 924 2286

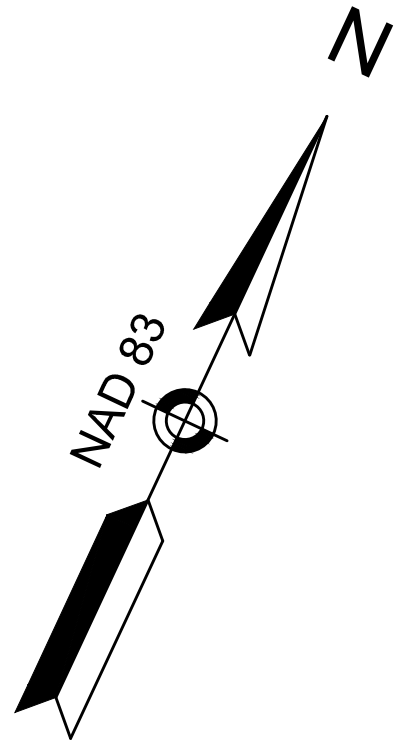
COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS

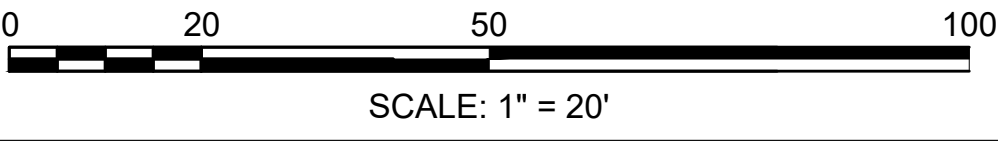
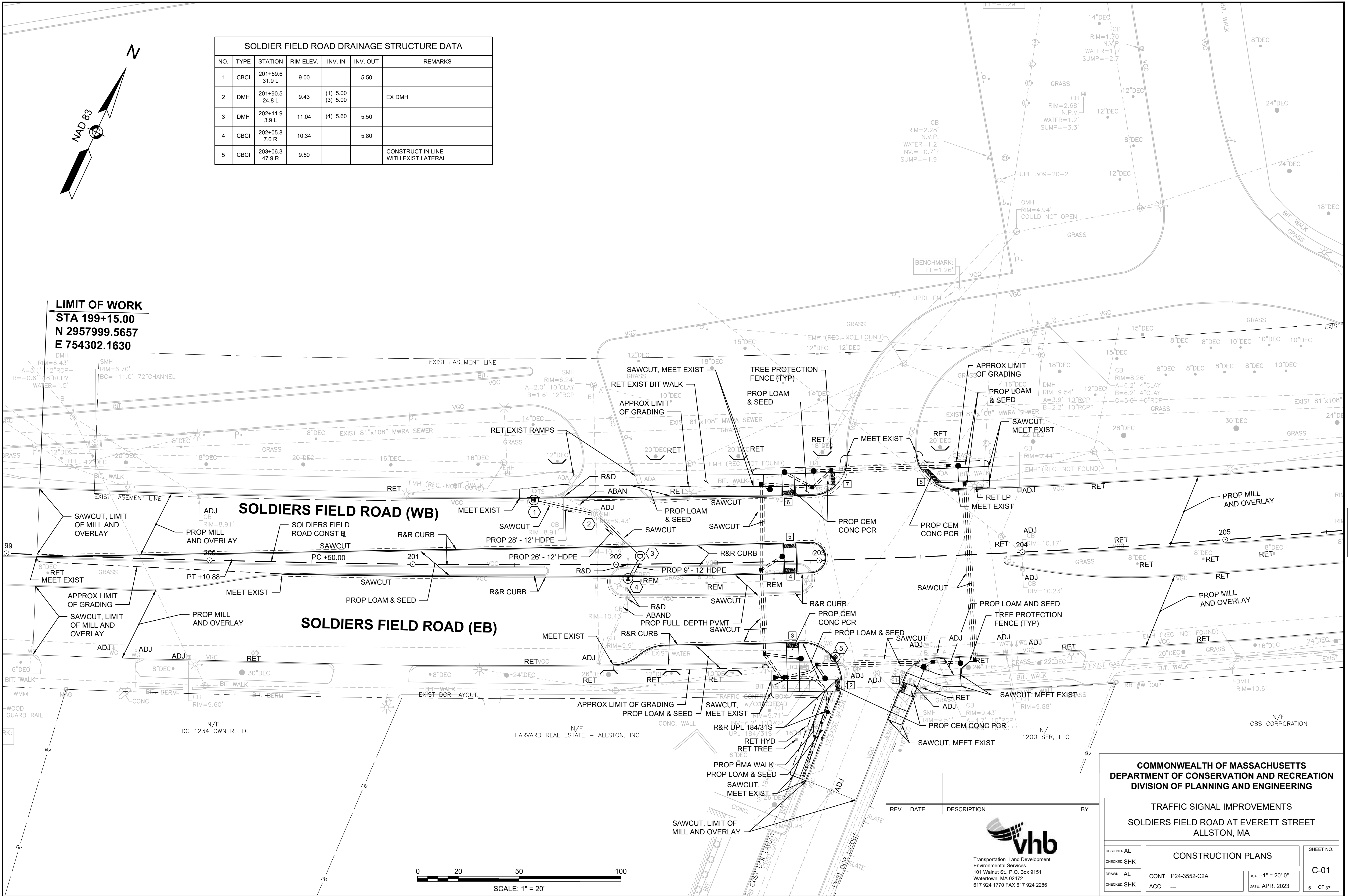
SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

DESIGNER: AL	TYPICAL SECTIONS & PAVEMENT NOTES	SHEET NO. TS-01
CHECKED: SHK		
DRAWN: AL		
CHECKED: SHK		
CONT: P24-3552-C2A	SCALE: NTS	DATE: APR. 2023
ACC. ---	5 OF 37	

SOLDIER FIELD ROAD DRAINAGE STRUCTURE DATA						
NO.	TYPE	STATION	RIM ELEV.	INV. IN	INV. OUT	REMARKS
1	CBCI	201+59.6 31.9 L	9.00		5.50	
2	DMH	201+90.5 24.8 L	9.43	(1) 5.00 (3) 5.00		EX DMH
3	DMH	202+11.9 3.9 L	11.04	(4) 5.60	5.50	
4	CBCI	202+05.8 7.0 R	10.34		5.80	
5	CBCI	203+06.3 47.9 R	9.50			CONSTRUCT IN LINE WITH EXIST LATERAL



LIMIT OF WORK
STA 199+15.00
N 2957999.5657
E 754302.1630



REV.	DATE	DESCRIPTION	BY

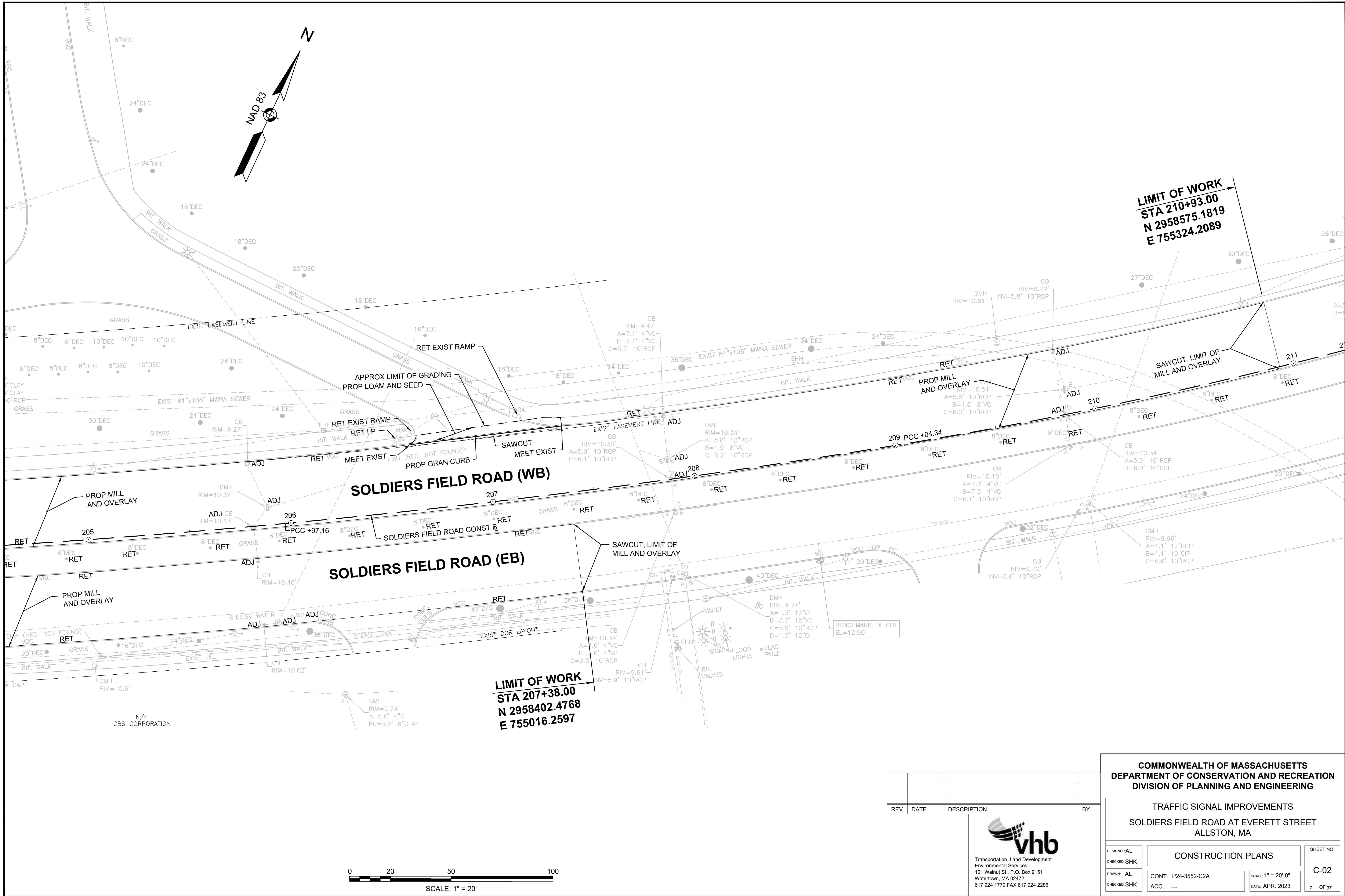


COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS
SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

CONSTRUCTION PLANS

DESIGNER: AL	CONT. P24-3552-C2A ACC. ---	SCALE: 1" = 20'-0" DATE: APR. 2023	SHEET NO. C-01 6 OF 37
CHECKED: SHK			
DRAWN: AL			



14274_HD(CONST).DWG Plotted on 25-Sep-2023 11:19 AM

REV.	DATE	DESCRIPTION	BY



Transportation Land Development
Environmental Services
101 Walnut St., P.O. Box 9151
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617 924 1770 FAX 617 924 2286

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS
SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

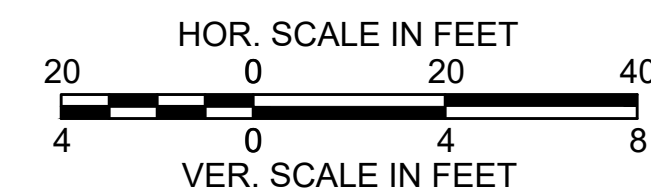
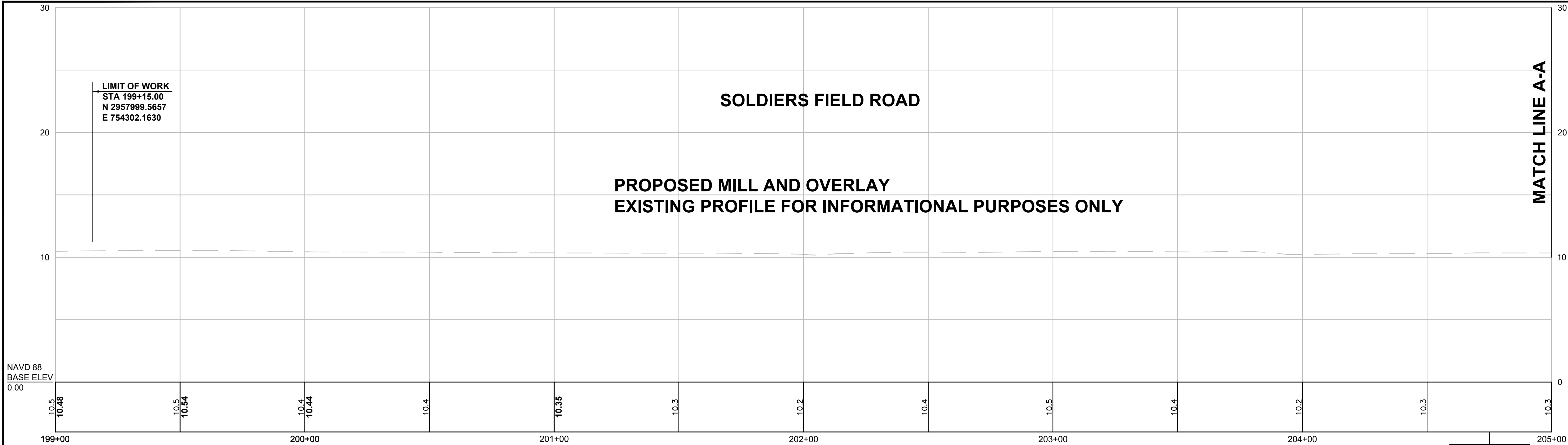
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DRAWN: AL
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CONT: P24-3552-C2A
ACC: ---

SCALE: 1" = 20'-0"
DATE: APR. 2023

SHEET NO.
C-02
7 OF 37



REV.	DATE	DESCRIPTION	BY



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Environmental Services
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COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF PLANNING AND ENGINEERING

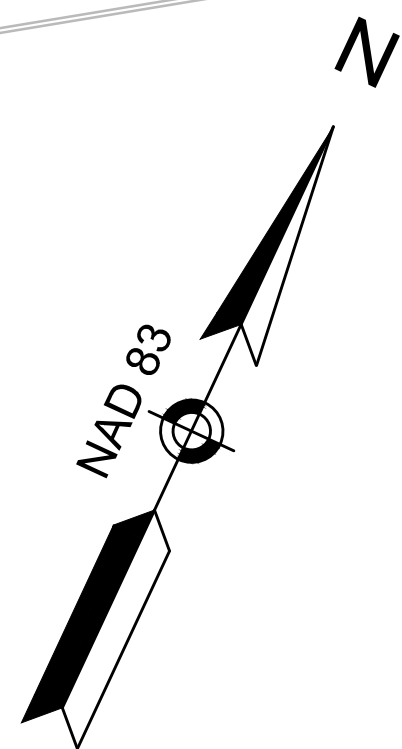
TRAFFIC SIGNAL IMPROVEMENTS
SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

DESIGNER: AL
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CONT: P24-3552-C2A
ACC: SHK

SCALE: AS NOTED
DATE: FEB. 2023

SHEET NO.
PR-01
8 OF 37



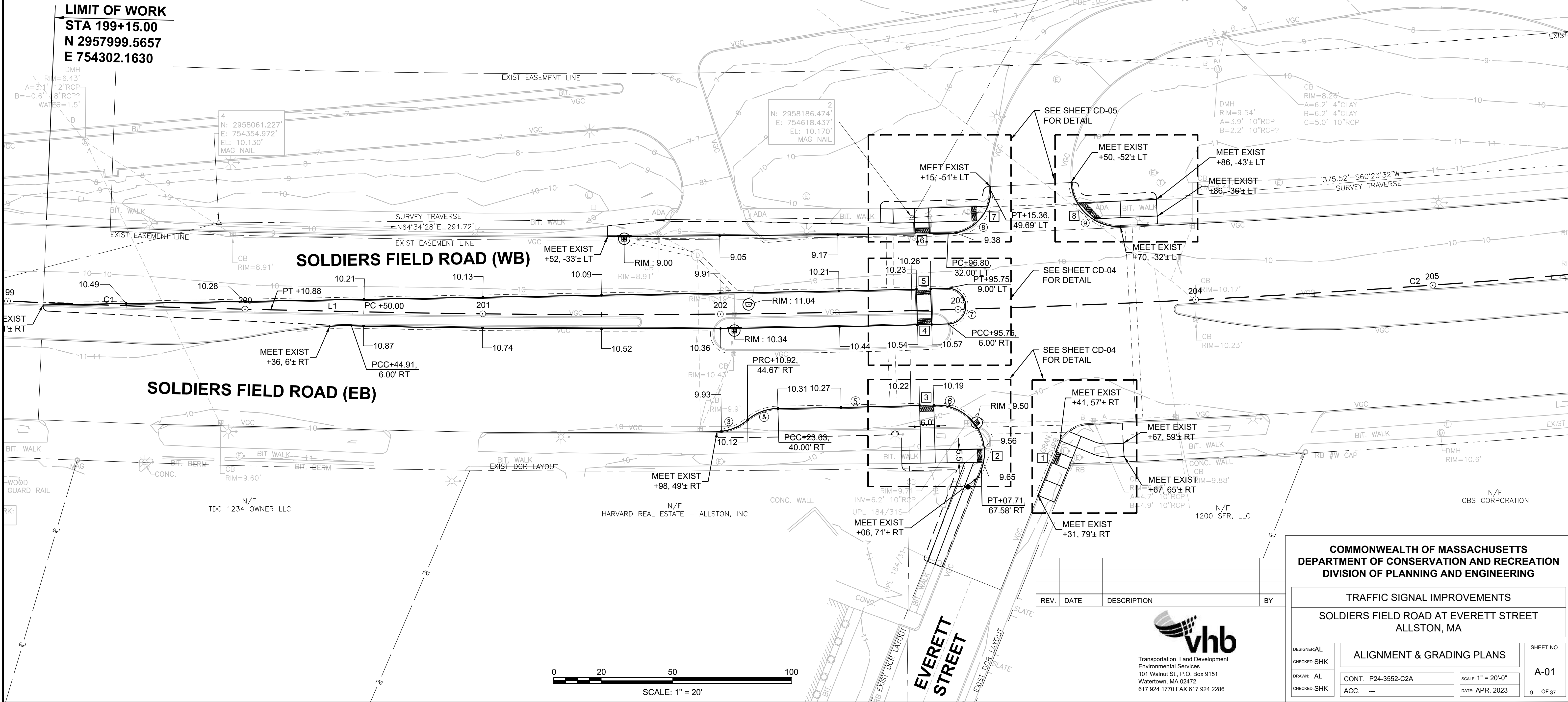
SOLDIER FIELD ROAD CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C1	198+17.31	2957962.8332	754211.6456	R= 5000.00' Δ= 2°13'05" T=96.79'		200+10.88	2958037.3292	754390.2861
L1	200+10.88	2958037.3292	754390.2861		N66°15'15"E 39.12'	200+50.00	2958053.0840	754426.0986
C2	200+50.00	2958053.0840	754426.0986	R= 4800.00' Δ= 6°31'52" T=273.88'		205+97.16	2958301.4525	754913.3061

CURVE TABLE				
CURVE	RADIUS	LENGTH	TANGENT	DELTA
3	20.00	13.96	7.28	39° 59' 23"
4	20.00	13.92	7.26	39° 53' 30"
5	4840.00	59.66	29.83	0° 42' 23"
6	20.00	39.16	29.75	112° 10' 35"
8	18.00	28.37	18.10	90° 18' 20"
9	20.00	30.92	19.51	88° 34' 06"

SURVEY TRAVERSE TABLE						
POINT #	NORTHING	EASTING	ELEVATION	RAW DESCRIPTION	STATION	OFFSET
2	2958186.474	754618.437	10.170	MTRV MAG NAIL	199+88.01	36.04' LT
4	2958061.227	754354.972	10.130	MTRV MAG NAIL	202+81.75	39.09' LT

LEGEND

- # WCR #
- # CURVE #



REV.	DATE	DESCRIPTION	BY



COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS
SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

DESIGNER: AL
CHECKED: SHK
DRAWN: AL
CHECKED: SHK

ALIGNMENT & GRADING PLANS

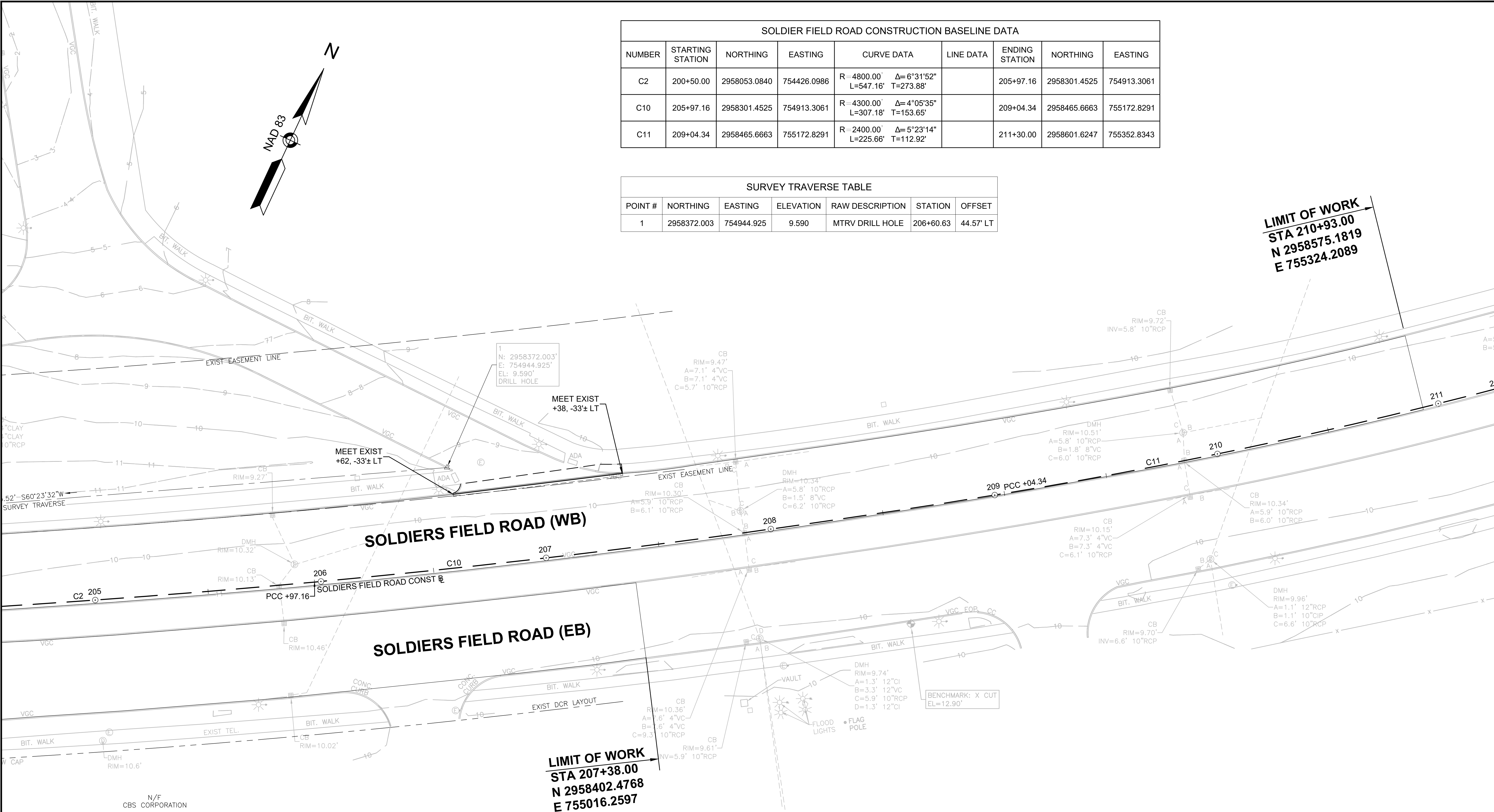
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ACC. ---

SHEET NO.
A-01
9 OF 37

SCALE: 1" = 20'-0"
DATE: APR. 2023

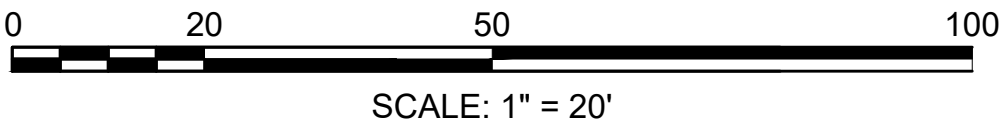
SOLDIER FIELD ROAD CONSTRUCTION BASELINE DATA									
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA		LINE DATA	ENDING STATION	NORTHING	EASTING
C2	200+50.00	2958053.0840	754426.0986	R - 4800.00'	Δ= 6°31'52"		205+97.16	2958301.4525	754913.3061
				L=547.16'	T=273.88'				
C10	205+97.16	2958301.4525	754913.3061	R - 4300.00'	Δ= 4°05'35"		209+04.34	2958465.6663	755172.8291
				L=307.18'	T=153.65'				
C11	209+04.34	2958465.6663	755172.8291	R - 2400.00'	Δ= 5°23'14"		211+30.00	2958601.6247	755352.8343
				L=225.66'	T=112.92'				

SURVEY TRAVERSE TABLE						
POINT #	NORTHING	EASTING	ELEVATION	RAW DESCRIPTION	STATION	OFFSET
1	2958372.003	754944.925	9.590	MTRV DRILL HOLE	206+60.63	44.57' LT



CONTINUED ON
SHEET NO. A-01

N/F
CBS CORPORATION



REV.	DATE	DESCRIPTION	BY

Transportation Land Development
Environmental Services
101 Walnut St., P.O. Box 9151
Watertown, MA 02472
617 924 1770 FAX 617 924 2286

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS
SOLDIER FIELD ROAD AT EVERETT STREET
ALLSTON, MA

DESIGNER: AL
CHECKED: SHK

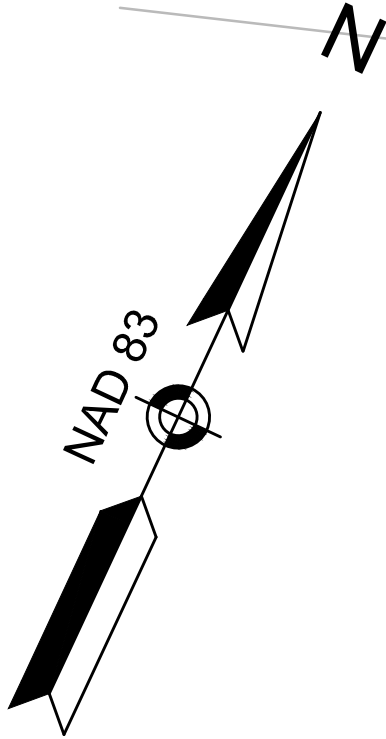
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CHECKED: SHK

ALIGNMENT & GRADING PLANS

CONT: P24-3552-C2A
ACC: ---

SCALE: 1" = 20'-0"
DATE: APR. 2023

SHEET NO.
A-02
10 OF 37



LIMIT OF WORK
STA 199+15.00
N 2957999.5657
E 754302.1630

CONSTRUCTION NOTES

1. ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC UNLESS OTHERWISE NOTED.
2. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
3. RETAIN ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.

N/F
HARVARD REAL ESTATE - ALLSTON, INC

REV.	DATE	DESCRIPTION	BY



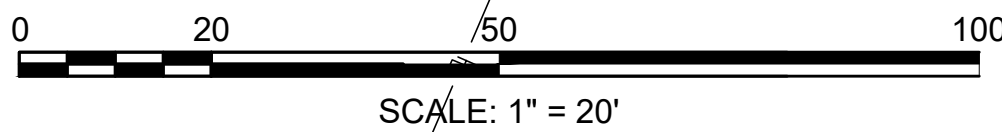
Transportation Land Development
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COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS
SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

DESIGNER: VL	TRAFFIC PLANS	SHEET NO.
CHECKED: PTN		
DRAWN: VL	CONT: P24-3552-C2A	T-01
CHECKED: PTN	ACC: ---	11 OF 37

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DATE: APR. 2023

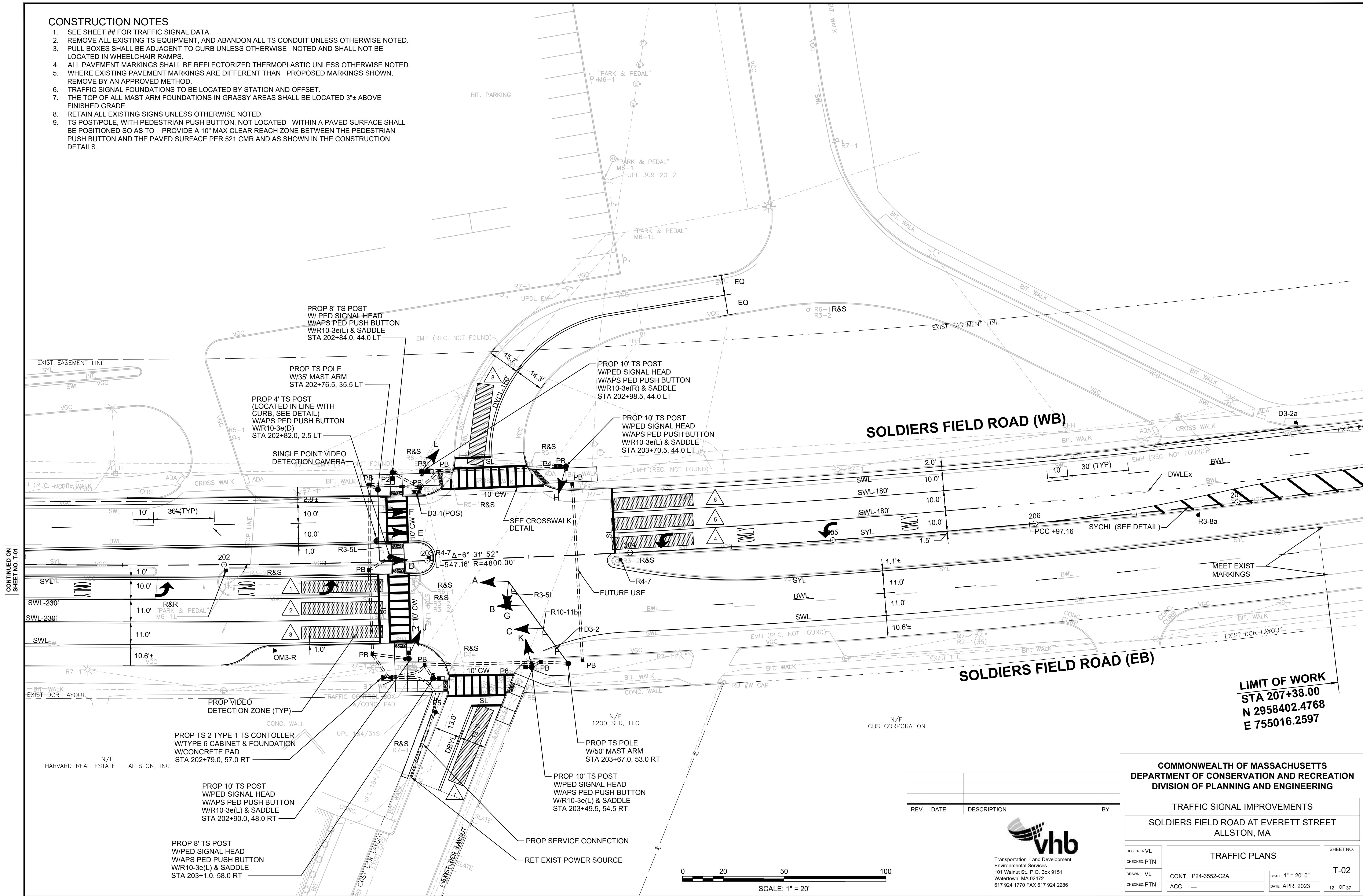


CONTINUED ON
SHEET NO. T-02

14274_HDT(SIG).DWG
Plotted on: 25-Sep-2023 11:21 AM

CONSTRUCTION NOTES

1. SEE SHEET ## FOR TRAFFIC SIGNAL DATA.
2. REMOVE ALL EXISTING TS EQUIPMENT, AND ABANDON ALL TS CONDUIT UNLESS OTHERWISE NOTED.
3. PULL BOXES SHALL BE ADJACENT TO CURB UNLESS OTHERWISE NOTED AND SHALL NOT BE LOCATED IN WHEELCHAIR RAMPS.
4. ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC UNLESS OTHERWISE NOTED.
5. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
6. TRAFFIC SIGNAL FOUNDATIONS TO BE LOCATED BY STATION AND OFFSET.
7. THE TOP OF ALL MAST ARM FOUNDATIONS IN GRASSY AREAS SHALL BE LOCATED 3'± ABOVE FINISHED GRADE.
8. RETAIN ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.
9. TS POST/POLE, WITH PEDESTRIAN PUSH BUTTON, NOT LOCATED WITHIN A PAVED SURFACE SHALL BE POSITIONED SO AS TO PROVIDE A 10' MAX CLEAR REACH ZONE BETWEEN THE PEDESTRIAN PUSH BUTTON AND THE PAVED SURFACE PER 521 CMR AND AS SHOWN IN THE CONSTRUCTION DETAILS.



LIMIT OF WORK
STA 207+38.00
N 2958402.4768
E 755016.2597

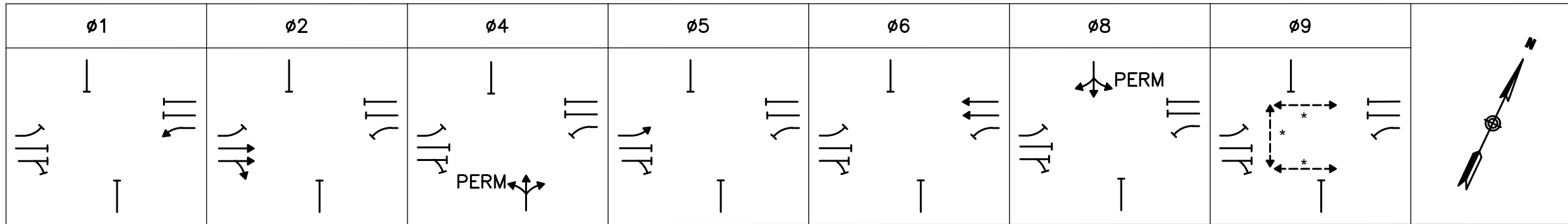
COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS
SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

DESIGNER: VL	TRAFFIC PLANS	SHEET NO.
CHECKED: PTN		T-02
DRAWN: VL	CONT: P24-3552-C2A	12 OF 37
CHECKED: PTN	ACC: ---	
	SCALE: 1" = 20'-0"	
	DATE: APR. 2023	



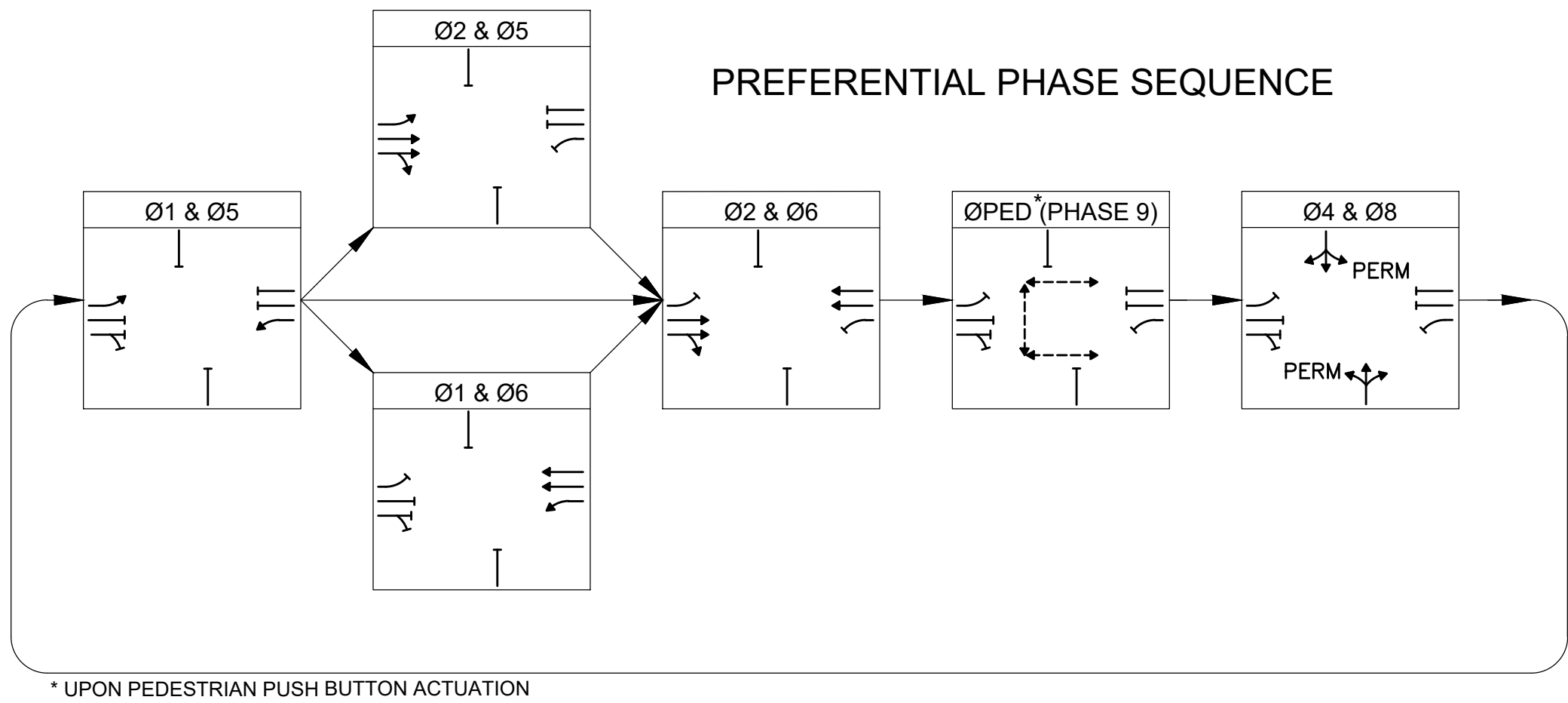
REV.	DATE	DESCRIPTION	BY



SEQUENCE AND TIMING FOR SEMI ACTUATED CONTROL (ISOLATED)

APPROACH	DIRECTION	HOUSING	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	FLASH						
SOLDIER FIELD ROAD	EB	A	←R-	←R-	←R-	←R- G	←R-	←R-	←R-	←R-	←R-	←G-	←Y-	←R-	←R-	←R-	←R-	←R-	←R-	←R-	←R-	←R-	←R-	←FR-						
SOLDIER FIELD ROAD	EB	B	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FY					
SOLDIER FIELD ROAD	EB	C	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FY					
SOLDIER FIELD ROAD	WB	D	←G-	←Y-	←R-	←R-	←R-	←R-	←R-	←R-	←R-	←R-	←R-	←R-	←R-	←R-	←R-	←R-	←R-	←R-	←R-	←R-	←R-	←FR-						
SOLDIER FIELD ROAD	WB	E	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	FY					
SOLDIER FIELD ROAD	WB	F	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	FY					
EVERETT STREET	NB	G,H	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	FR					
DRIVEWAY	SB	J,K,L	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	FR					
PEDESTRIAN X-ING	NB-SB	P1-P2	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT						
PEDESTRIAN X-ING	EB-WB	P3-P4	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT						
PEDESTRIAN X-ING	EB-WB	P5-P6	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	OUT						
TIMING IN SECONDS																														
MINIMUM GREEN (INITIAL)			6			10			5			6			10			5			-				CONFLICT FLASH OPERATION ONLY					
PASSAGE TIME (VEHICLE)			2			2			2			2			-			2			-									
MAXIMUM 1			20			50			25			10			50			25			-									
MAXIMUM 2			15			55			15			10			60			15			-									
DYNAMIC MAXIMUM LIMIT			30			80			25			15			80			35			-									
YELLOW CLEARANCE				3.5			4			3			3.5			4			3											
RED CLEARANCE					2.5			1			2.5			2.5			1			2.5			4							
PEDESTRIAN WALK																					7									
PEDESTRIAN CLEARANCE																						17								
DETECTOR MEMORY			NON-LOCK			NON-LOCK			NON-LOCK			NON-LOCK			NON-LOCK			NON-LOCK			LOCK									
RECALL			OFF			MIN			OFF			OFF			MIN			OFF			OFF									
COORDINATION DATA			COORDINATION PHASE SPLIT TIMES																											
TIMING PLAN	CYCLE	OFFSET	ø1				ø2				ø4				ø5				ø6				ø8				ø9			
MODE																														

- NOTES:
- AUTOMATIC FLASHING OPERATION PER 2009 M.U.T.C.D., AS AMENDED.
 - * UPON PEDESTRIAN PUSH BUTTON ACTUATION
 - PERM = PERMISSIVE
 - ø4 & ø8 DUAL ENTRY
 - MAXIMUM 1 = NORMAL OPERATION
 - MAXIMUM 2 = MONDAY-FRIDAY 7:00-10:00AM
 - DYNAMIC (MAX) STEP SHALL BE 5 SECONDS.
 - DYNAMIC (MAX) SHALL BE USED FOR ALL TIMES.
 - STOP AND GO OPERATION FOR 24 HOURS PER DAY. FLASHING OPERATION FOR EMERGENCY ONLY.
 - DURING PEDESTRIAN INTERVAL, FDW THROUGH YELLOW OPERATION SHALL NOT BE IN EFFECT.



* UPON PEDESTRIAN PUSH BUTTON ACTUATION

SEQUENCE & TIMING NOTES:

- IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT WILL NOT CHANGE DURING THE CLEARANCE INTERVAL.
- THE RIGHT OF WAY MAY BE ASSIGNED TO ANY PHASE OR ANY COMBINATION OF NON-CONFLICTING PHASES.
- IF CALLS EXIST ON ALL PHASES, THE ASSIGNMENT OF RIGHT OF WAY SHALL BE IN ACCORDANCE WITH THE PREFERENTIAL PHASE SEQUENCE.
- IF THE ASSIGNED RIGHT-OF-WAY FOR ANY TRAFFIC MOVEMENT IS TO CHANGE DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATION FOR THAT MOVEMENT WILL DISPLAY THE APPROPRIATE CLEARANCE INTERVALS.

SIGNAL HEAD DATA

A,D	B,E	C,F,G,H,J,K,L	P1-P6
ALL 12" LENS			

- NOTES:
- ALL SIGNAL HEADS SHALL BE RIGID MOUNTED.
 - ALL SIGNAL HEADS SHALL BE EQUIPPED WITH 5"x2" NON-LOUVERED BACKPLATES. ALL BACKPLATES SHALL CONTAIN A 3" WIDE YELLOW REFLECTIVE BORDER.
 - ALL SIGNAL HEADS SHALL BE EQUIPPED WITH TUNNEL VISORS.
 - ALL SIGNAL DISPLAYS SHALL BE EQUIPPED WITH L.E.D. MODULES.

LIST OF MAJOR ITEMS REQUIRED

SOLDIERS FIELD ROAD AT EVERETT STREET/DRIVEWAY

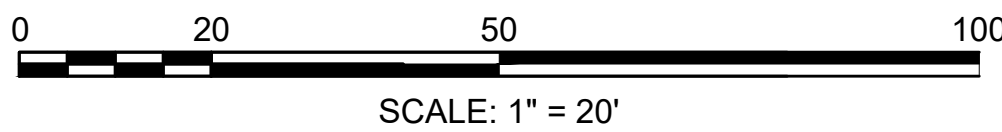
PAY ITEM	QUANTITY	DESCRIPTION
816.01	1	8Ø TS 2 TYPE 1 CONTROLLER IN A TYPE 6 BASE MOUNTED CABINET INCLUDING FOUNDATION AND CONCRETE PAD
	1	FIELD MONITORING UNIT
	1	TS 35' MAST ARM TYPE 2, STEEL, INCL. FOUNDATION
	1	TS 50' MAST ARM TYPE 2, STEEL, INCL. FOUNDATION
	1	TS POST 4' STANDARD INCL. FOUNDATION
	2	TS POST 8' STANDARD INCL. FOUNDATION
	4	TS POST 10' STANDARD INCL. FOUNDATION
	11	SIGNAL HEAD, 3-SECTION, 12" LENSES
	6	PEDESTRIAN SIGNAL HEAD W/COUNTDOWN TIMER
	5	PEDESTRIAN PUSH BUTTON W/R10-3e(L) AND SIGN SADDLE
	1	PEDESTRIAN PUSH BUTTON W/R10-3e(R) AND SIGN SADDLE
	1	PEDESTRIAN PUSH BUTTON W/R10-3e(D) AND SIGN SADDLE
	1	SINGLE POINT VIDEO DETECTION SYSTEM (1 CAMERA, VDP & CABLES)
	1	SERVICE CONNECTION (OVERHEAD)
804.3	540±	3" CONDUIT, SCHEDULE 80, TYPE NM
811.31	10	PULL BOX-12"x12"

PLUS NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS MATERIAL AND EQUIPMENT TO COMPLETE THE INSTALLATION AND PROVIDE AN OPERATING TRAFFIC CONTROL SIGNAL.

VIDEO DETECTION DATA

DETECTION ZONE	APPROACH	CAMERA	DELAY /EXT	CALL PHASE
1	SOLDIERS FIELD ROAD EB LEFT LANE	C1	0	ø5
2	SOLDIERS FIELD ROAD EB THRU LANE	C1	0	ø2
1	SOLDIERS FIELD ROAD EB THRU/RIGHT LANE	C1	0	ø2
4	SOLDIERS FIELD ROAD WB LEFT LANE	C1	0	ø1
5	SOLDIERS FIELD ROAD WB THRU LANE	C1	0	ø6
6	SOLDIERS FIELD ROAD WB THRU/RIGHT LANE	C1	0	ø6
7	EVERETT ST NB	C1	0	ø4
8	DRIVEWAY SB	C1	0	ø8

- NOTES:
- DELAY AND EXTENSION TIMINGS SHALL BE PROGRAMMED IN THE CONTROLLER ONLY.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING PROPOSED DETECTION ZONES AS SHOWN ON THE PLANS, AND ADJUSTING/ READJUSTING DETECTION ZONES IN THE PRESENCE ON THE ENGINEER.



REV.	DATE	DESCRIPTION	BY

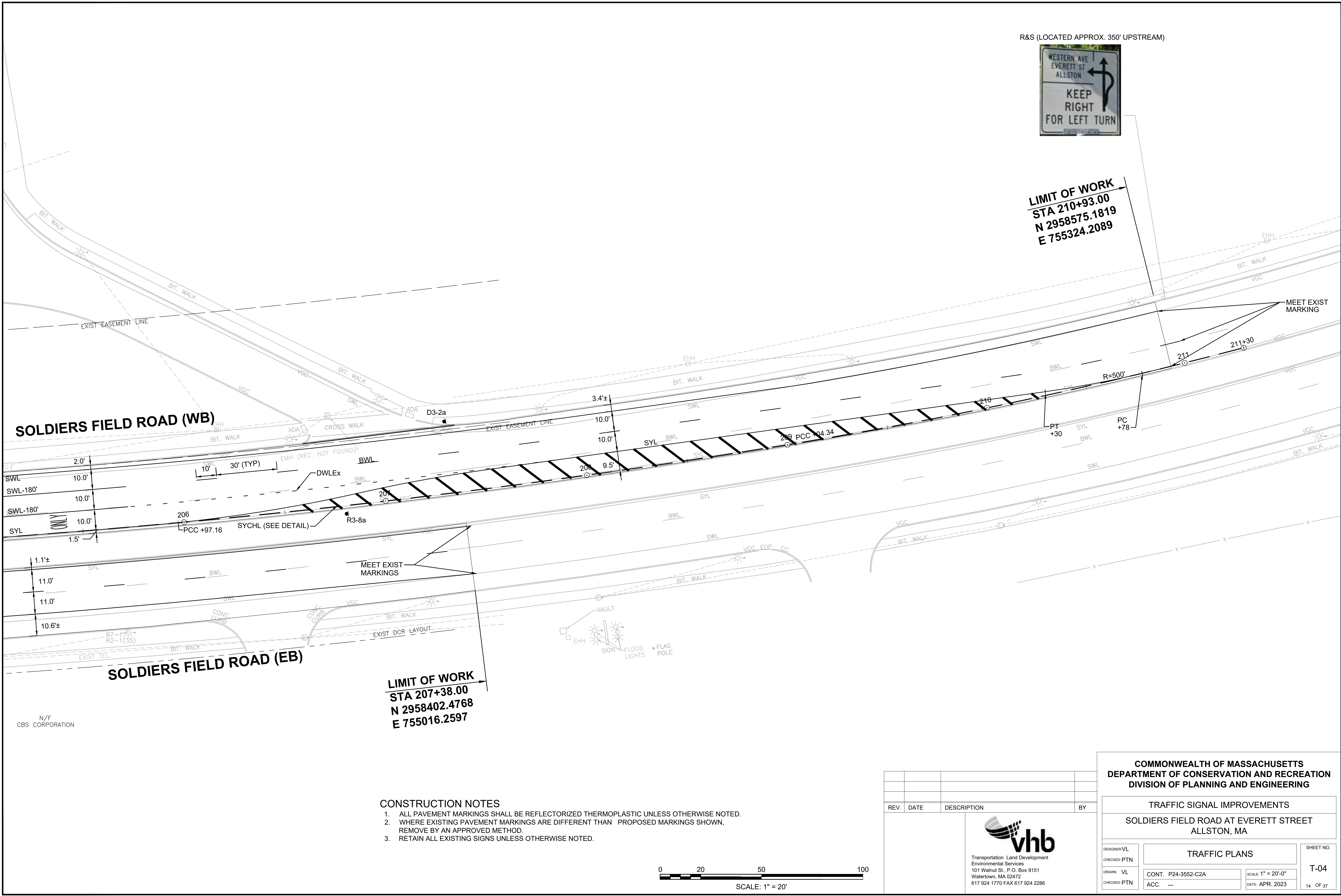


COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS

SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

DESIGNER:VL	TRAFFIC PLANS	SHEET NO. T-03
CHECKED:PTN		
DRAWN: VL	CONT. P24-3552-C2A	SCALE: 1" = 20'-0"
CHECKED:PTN	ACC. ---	DATE: APR. 2023



CONTINUED ON
SHEET NO. T-02

N/F
CBS CORPORATION

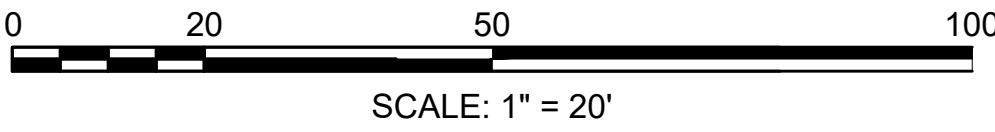
LIMIT OF WORK
STA 207+38.00
N 2958402.4768
E 755016.2597

R&S (LOCATED APPROX. 350' UPSTREAM)



LIMIT OF WORK
STA 210+93.00
N 2958575.1819
E 755324.2089

- CONSTRUCTION NOTES**
- ALL PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC UNLESS OTHERWISE NOTED.
 - WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
 - RETAIN ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.



REV.	DATE	DESCRIPTION	BY

Transportation Land Development
Environmental Services
101 Walnut St., P.O. Box 9151
Watertown, MA 02472
617 924 1770 FAX 617 924 2286

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS



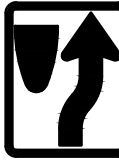
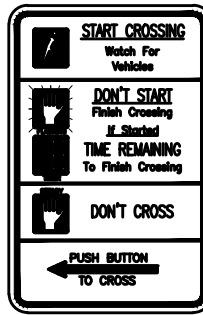
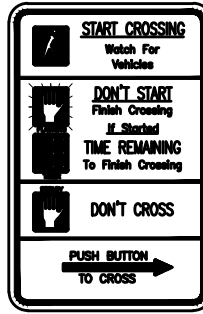
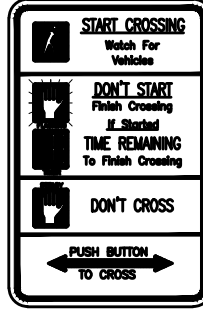




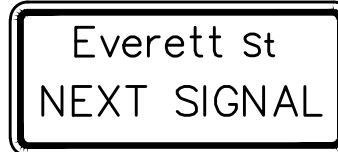
SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

DESIGNER: VL
CHECKED: PTN
DRAWN: VL
CHECKED: PTN

CONT: P24-3552-C2A
ACC. ---

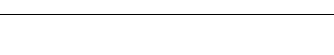
SCALE: 1" = 20'-0"
DATE: APR. 2023

SHEET NO.
T-04
14 OF 37

TRAFFIC SIGN SUMMARY													
IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED		COLOR		POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA I SQUAR E FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK- GROUND	LEGEND	BORDER			
R3-5L	30"	36"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			2	WHITE	BLACK	BLACK	2 MTD ON MAST ARM	7.50	15.00
R3-8a	42"	30"					2	WHITE	BLACK	BLACK	P5-2	8.75	17.50
R4-7	24"	30"					2	WHITE	BLACK	BLACK	P5-2	5.00	10.00
R10-3e(L)	9"	15"					5	WHITE	WHITE/ BLACK/ ORANGE	BLACK	5 MTD ON TS POST/POLE	PAID FOR UNDER ITEM 816.01	
R10-3e(R)	9"	15"					1	WHITE	WHITE/ BLACK ORANGE	BLACK	1 MTD ON TS POST/POLE	PAID FOR UNDER ITEM 816.01	
R10-3e(D)	9"	15"					1	WHITE	WHITE/ BLACK ORANGE	BLACK	1 MTD ON TS POST/POLE	PAID FOR UNDER ITEM 816.01	
R10-11b	36"	36"					1	WHITE	BLACK	BLACK	1 MTD ON MAST ARM	9.00	9.00
OM3-R	12"	36"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			1	YELLOW	BLACK	--	P5-1	3.00	3.00
D3-1(POS)	66"	12"		6 3/4" C @85%	3" 3"	N/A	2	GREEN	WHITE	WHITE	P5-2	PAID FOR UNDER ITEM 874	
D3-2	54"	18"		9 7/8" C	4.5" 4.5"	N/A	1	GREEN	WHITE	WHITE	1 MOUNTED OVERHEAD ON MAST ARM	PAID FOR UNDER ITEM 874	
D3-2a	48"	30"		6" D 4.5" D	6.75" 6" 6.75"	N/A	1	GREEN	WHITE	WHITE	P5-1	PAID FOR UNDER ITEM 874	

NOTES:

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

REV.	DATE	DESCRIPTION	BY		
		 <p>Transportation Land Conservation Environmental Services 101 Walnut St., P.O. Box 9151 Watertown, MA 02472 617 924 1770 FAX 617 924 2286</p>			

DEPARTMENT OF CONSERVATION AND RECREATION

DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS
SOLDIERS FIELD ROAD AT EVERETT STREET ALLSTON, MA

DESIGNER/VL	SIGN SUMMARY		SHEET NO. SS-01
CHECKED: PTN			
DRAWN: VL	CONT. P24-3552-C2A	SCALE: NTS	
CHECKED: PTN	ACC. ---	DATE: MAY, 2023	15 OF 37

GENERAL NOTES

1. ALL CONSTRUCTION SIGNING, TEMPORARY TRAFFIC CONTROL DEVICES, AND ROADSIDE ELEMENTS SHALL CONFORM WITH THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS AMENDED, THE MASSDOT STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TEMPORARY TRAFFIC CONTROL PLANS, THE LATEST REVISIONS OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS. (AASHTO) ROADSIDE DESIGN GUIDE, AASHTO POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, AND NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350 OR THE AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
2. WORK HOURS SHALL BE AS STATED IN THE CONTRACT DOCUMENTS UNLESS OTHERWISE APPROVED BY DCR AND THE CITY OF BOSTON.
3. NO WORK SHALL OCCUR WITHIN THE PUBLIC WAY ON STATE RECOGNIZED HOLIDAYS AS NOTED IN THE CONTRACT DOCUMENTS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
4. ALL TEMPORARY PEDESTRIAN PATHWAYS SHALL COMPLY FULLY WITH ALL REQUIREMENTS OF THE MUTCD AND ALL APPLICABLE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (MAAB) AND AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) REQUIREMENTS AND PUBLIC RIGHTS-OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
5. ALL DRUMS OUTSIDE TAPERS SHALL BE SET AT 20' ON CENTER MAX. UNLESS OTHERWISE NOTED OR ADJUSTED BY THE ENGINEER.
6. ALL DRUMS SHALL BE APPROXIMATELY PLACED AND MOVED AS NECESSARY TO MAINTAIN SAFE AND REASONABLE ABUTTER ACCESS. WORK MAY REQUIRE ADDITIONAL SIGNS, DRUMS AND OTHER TRAFFIC CONTROL DEVICES, GRADING AND TEMPORARY PAVEMENT FOR PASSAGE OF PEDESTRIAN, VEHICULAR AND EMERGENCY TRAFFIC THROUGH THE WORK AREAS, BOTH DURING AND AFTER WORKING HOURS, TO MAINTAIN SUCH ACCESS.
7. THE FIRST 10 DRUMS ON TAPERS SHALL BE REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS AND SHALL BE OPERATING, AT A MINIMUM, BETWEEN DUSK AND DAWN, WHEN TAPER IS DEPLOYED.
8. REFLECTORIZED CONES SHALL BE A MINIMUM OF 36 INCHES IN HEIGHT.
9. CONES MAY BE USED IN LIEU OF DRUMS OUTSIDE OF TAPER AREAS.
10. THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OR RESTRICTION OF ACCESS.
11. FOR DROP-OFFS 3" OR LESS WITHIN THE CLEAR ZONE, CONDITION MAY BE MITIGATED WITH W8-9 (LOW SHOULDER) SIGN OR TEMPORARY CHANNELIZATION DEVICES. FOR DROP-OFFS GREATER THAN 3" BUT NO MORE THAN 36", DETERMINE WHETHER IT IS MORE COST EFFECTIVE TO INSTALL BOTH W8-9 SIGN AND TEMPORARY CHANNELIZATION DEVICES IN ACCORDANCE WITH MASSDOT WORK ZONE SAFETY GUIDE OR W8-9 SIGN WITH A 2H:1V (MIN) WEDGE OR TO REMOVE THE HAZARD. FOR DROP-OFFS 36" OR GREATER USE TEMPORARY BARRIER IN ACCORDANCE WITH MASSDOT WORK ZONE POSITIVE PROTECTION GUIDELINES.
12. CONSTRUCTION CLEAR ZONE SHALL BE IN ACCORDANCE WITH MASSDOT BOSTON TRAFFIC GUIDELINES AS FOLLOWS:

4' IF POSTED SPEED IS LESS THAN 35 MPH

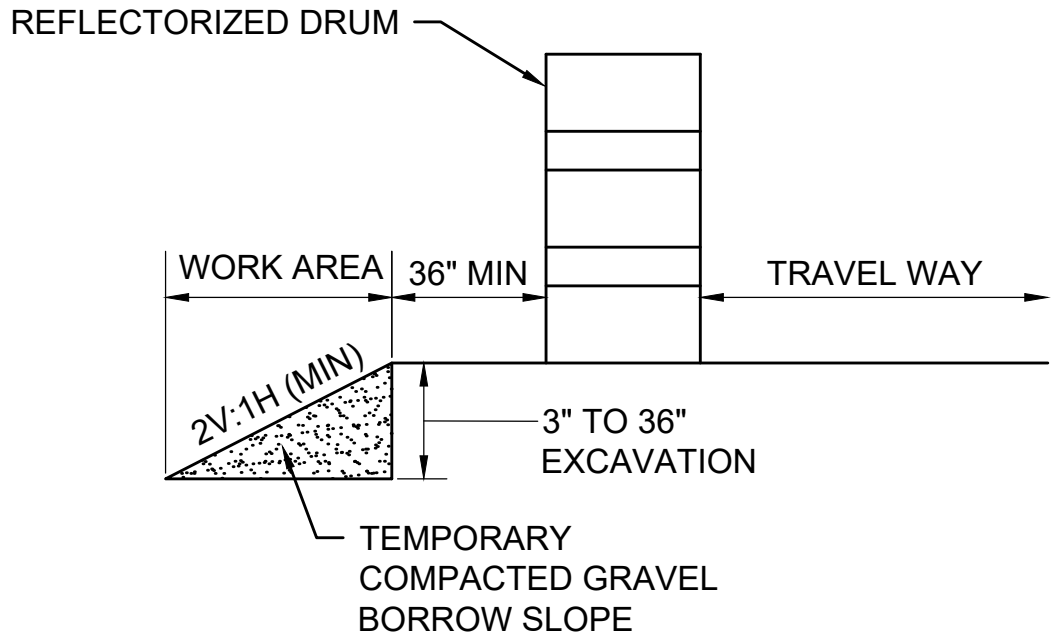
8' IF POSTED SPEED IS 35 MPH

15' IF POSTED SPEED IS 40 MPH

20' IF POSTED SPEED IS 45 MPH

25' IF POSTED SPEED IS 55 MPH

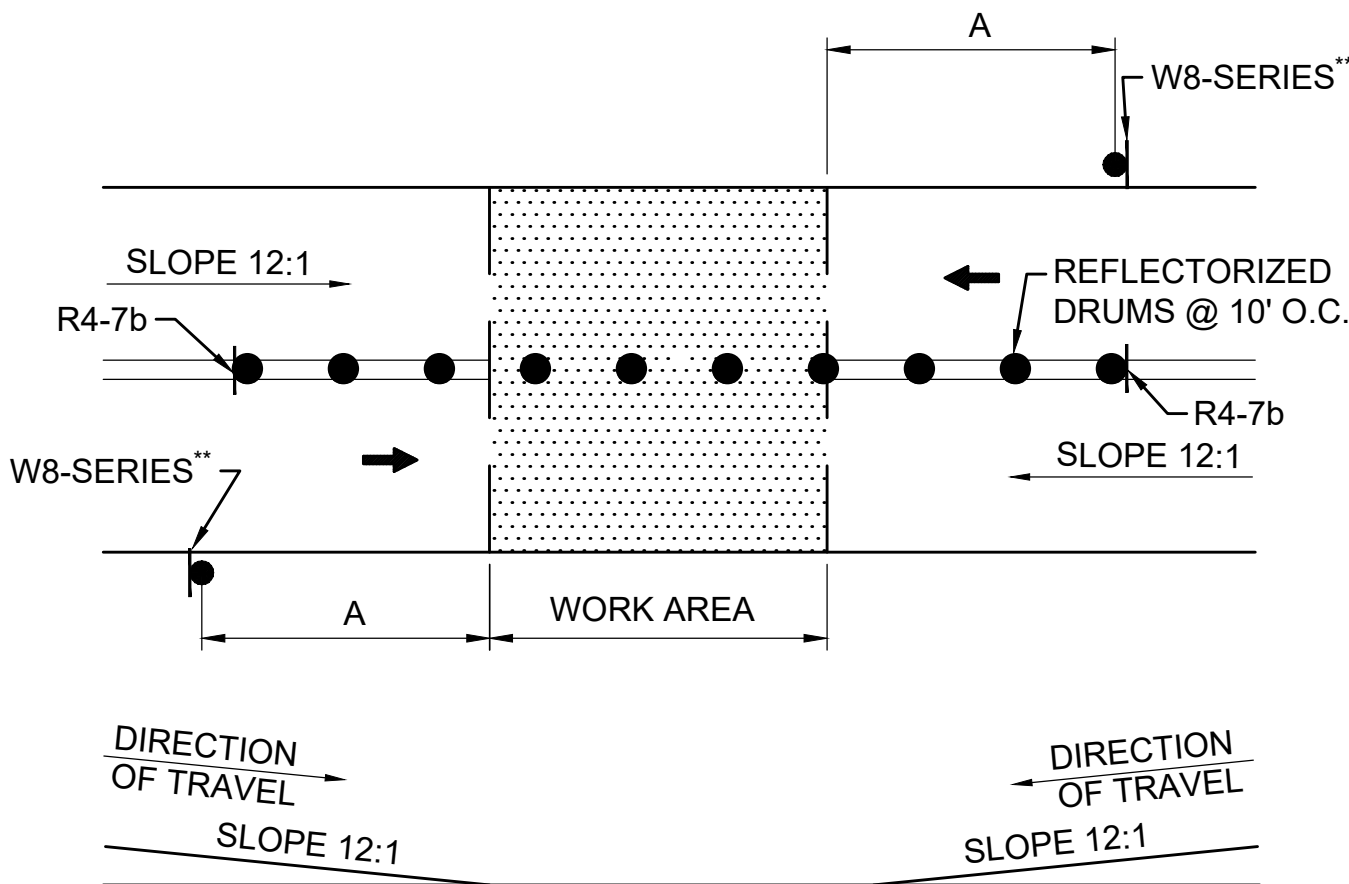
30' IF POSTED SPEED IS GREATER THAN 55 MPH
13. 11' MINIMUM LANE WIDTHS SHALL BE MAINTAINED UNLESS OTHERWISE NOTED.
14. TEMPORARY TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE COVERED OR REMOVED DURING NON-WORKING HOURS WHEN NOT IN USE.
15. SIGNS INSTALLED ON PORTABLE STANDS REQUIRE 12 INCH MINIMUM MOUNTING HEIGHT FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE SIGN.
16. SIGNS INSTALLED ON PORTABLE STANDS PLACED AMONG CHANNELIZATION DEVICES REQUIRE A 36 INCH MINIMUM MOUNTING HEIGHT FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE SIGN.
17. SIGNS MOUNTED ON POSTS REQUIRE A MINIMUM 84 INCH MOUNTING HEIGHT FROM THE ROADWAY OR SIDEWALK SURFACE TO THE BOTTOM OF THE SIGN. CONTRACTOR SHALL MAINTAIN A MINIMUM SIDEWALK HORIZONTAL CLEAR WIDTH OF 36" AT ALL TIMES.
18. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN NCHRP 350 AND/OR MASH CRASH TESTED SIGN SUPPORTS AND INSTALLED IN ACCORDANCE WITH THE MUTCD. SIGNS SHALL NOT BE MOUNTED TO OR LEANED AGAINST DRUMS OR CONES.
19. ARROW BOARD FLASHING CAUTION SHALL FLASH IN FOUR-POINT CAUTION MODE ONLY.
20. W21-7 SIGNS SHALL BE INSTALLED IN ADVANCE (100' MIN) OF AREAS WHERE UTILITY CASTINGS HAVE BEEN RAISED IN ADVANCE OF PAVING OPERATIONS OR AS REQUESTED BY THE ENGINEER.
21. W8-15 SIGNS SHALL BE INSTALLED IN ADVANCE (100' MIN) OF PAVEMENT MILLING AREAS OR AS REQUESTED BY THE ENGINEER.
22. TEMPORARY MARKINGS SHALL BE WATER-BORNE PAINT OR SURFACE-APPLIED REMOVEBLE TAPE, AS APPROVED BY THE ENGINEER.
23. ALL TEMPORARY CROSSWALKS AND STOP LINES SHALL BE 12 INCHES WIDE.
24. ALL TEMPORARY DOUBLE YELLOW LINES (DBYL) SHALL BE 4 INCHES WIDE.
25. W20-1c, MA-R2-10a OR MA-R2-10e SIGNS SHOWN ON ADVANCE SIGN SCHEMATIC MAY BE USED IN LIEU OF THOSE SIGNS SHOWN ON TYPICAL DETAILS ON THE TEMPORARY TRAFFIC CONTROL PLANS IF MINIMUM SIGN SPACING IS MET.
26. CONTRACTOR SHALL SECURE WORK AREAS BY APPROPRIATE MEANS, TO PREVENT UNAUTHORIZED ACCESS AT ALL TIMES.
27. THERE IS NO DESIGNATED BICYCLE LANE ON THE ROADWAY WITHIN THE PROJECT LIMITS. BICYCLES ARE EXPECTED TO SHARE THE ROAD WITH GENERAL VEHICULAR TRAFFIC.
28. CONTRACTOR SHALL PROVIDE 3 PORTABLE CHANGE MESSAGE SIGN (PCMS) AT LOCATIONS SHOWN ON SHEET TC-09 A MINIMUM OF 7 DAYS PRIOR TO START OF CONSTRUCTION AND 7 DAYS AFTER CONSTRUCTION BEGINS.



NOTE:
1. CONTRACTOR SHALL INSTALL W8-9 SIGN ON ALL ROADWAYS 350 FT IN ADVANCE OF THE START OF DROP-OFF CONDITION.

TYPICAL ROADWAY DROP-OFF PROTECTION

SCALE: NTS



- NOTES:
1. SQUARE OFF THE FULL WIDTH OF THE ROADWAY AT THE END OF WORK DAY
2. ** CONTRACTOR SHALL INSTALL W8-1, W8-3, OR W8-8 SIGN, AS APPROPRIATE, ON ALL ROADWAYS IN ADVANCE OF THE TRANSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

TEMPORARY PAVEMENT TRANSITION

SCALE: NTS

LEGEND

	POLICE OFFICER
	TRAFFIC SIGNAL
	REFLECTORIZED DRUM
	REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS (SEE NOTE 7)
	TEMPORARY CONSTRUCTION SIGN
	TRAFFIC CONE
	TYPE III BARRICADE
	ARROW BOARD (AB) (RIGHT OR LEFT)
	ARROW BOARD (AB) (CAUTION)
	PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
	WORK AREA (PUBLIC ACCESS RESTRICTED)
	TRANSITION/BUFFER AREAS
	TRAFFIC FLOW
	PEDESTRIAN ROUTE
	CONSTRUCTION FENCE
	TEMPORARY PEDESTRIAN BARRICADE
NTS	NOT TO SCALE

ADVANCE SIGN SPACING

ROADWAY	DISTANCE BETWEEN SIGNS (FEET)			
	A	B	C	D
SOLDIERS FIELD RD	350	150	350	350
EVERETT ST TELFORD ST WESTERN AVE MCDONALD AVE	100	50	100	100

LANE TAPER LENGTH FORMULAS

L= TAPER LENGTH IN FEET

W= WIDTH OF ROADWAY TO BE SHIFTED OR REDIRECTED IN FEET

S= POSTED SPEED LIMIT IN MPH

POSTED SPEED

40 MPH OR LESS

$$L = \frac{WS^2}{60}$$

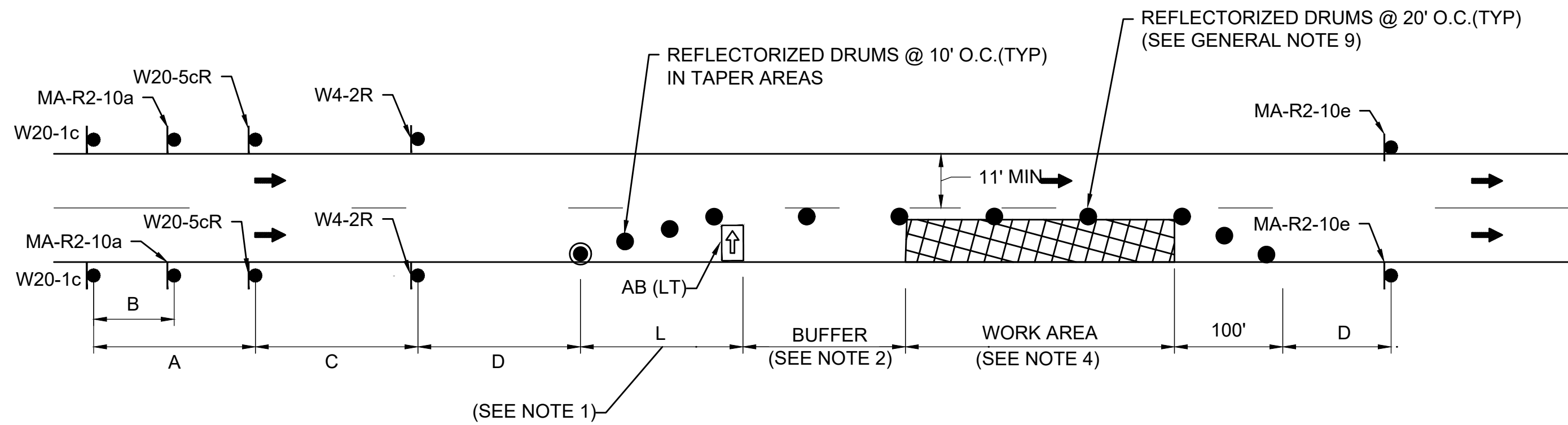
COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS

SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

DESIGNER: KW CHECKED: AA	TEMPORARY TRAFFIC CONTROL PLAN GENERAL NOTES AND LEGEND	SHEET NO.
DRAWN: KW CHECKED: AA	CONT. P24-3552-C2A ACC. ---	TC-01
	SCALE: NTS DATE: MAY, 2023	16 OF 37

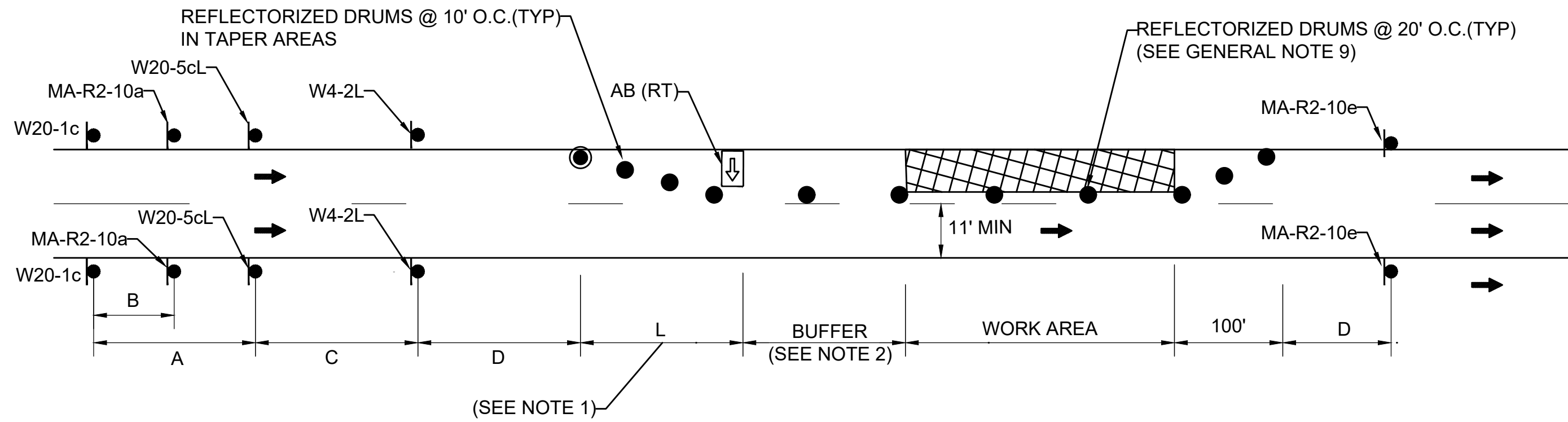




- NOTES:
1. SEE TAPER LENGTH FORMULA ON SHEET TC-01.
 2. SEE BUFFER SPACING CHART ON SHEET TC-01.
 3. SEE ADVANCE SIGN SPACING TABLE ON SHEET TC-01.
 4. CONTRACTOR TO CLOSE THE EXIST RIGHT SHOULDER PRIOR TO CLOSING THE RIGHT TRAVEL LANE. SEE TYPICAL SHOULDER CLOSURE - RIGHT DETAIL.

ONE LANE CLOSURE - RIGHT

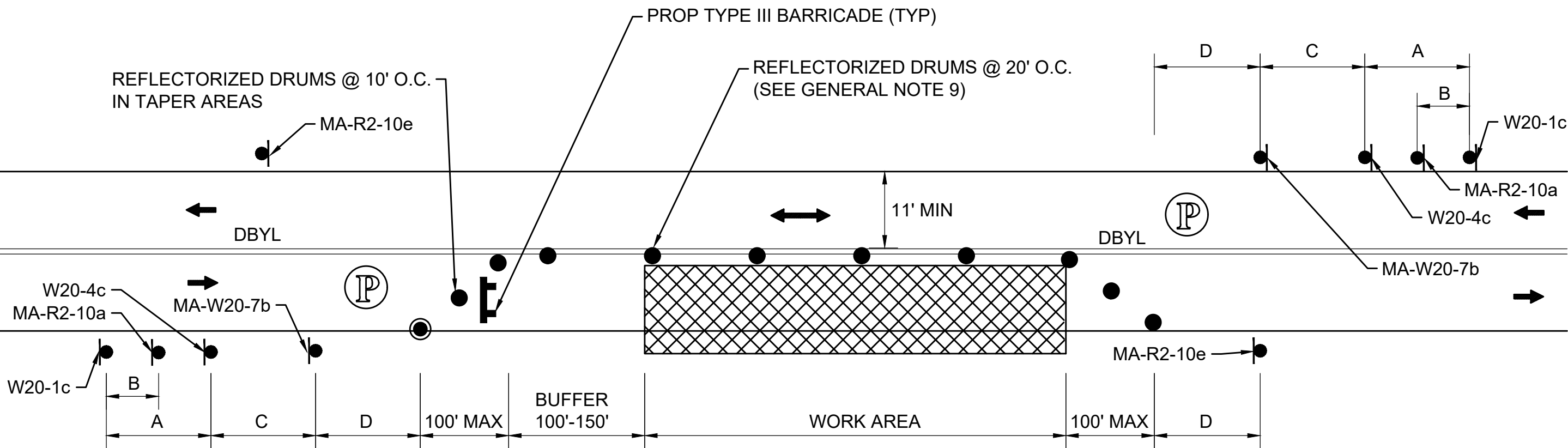
SCALE: NTS



- NOTES:
1. SEE TAPER LENGTH FORMULA ON SHEET TC-01.
 2. SEE BUFFER SPACING CHART ON SHEET TC-01.
 3. SEE ADVANCE SIGN SPACING TABLE ON SHEET TC-01.

ONE LANE CLOSURE - LEFT

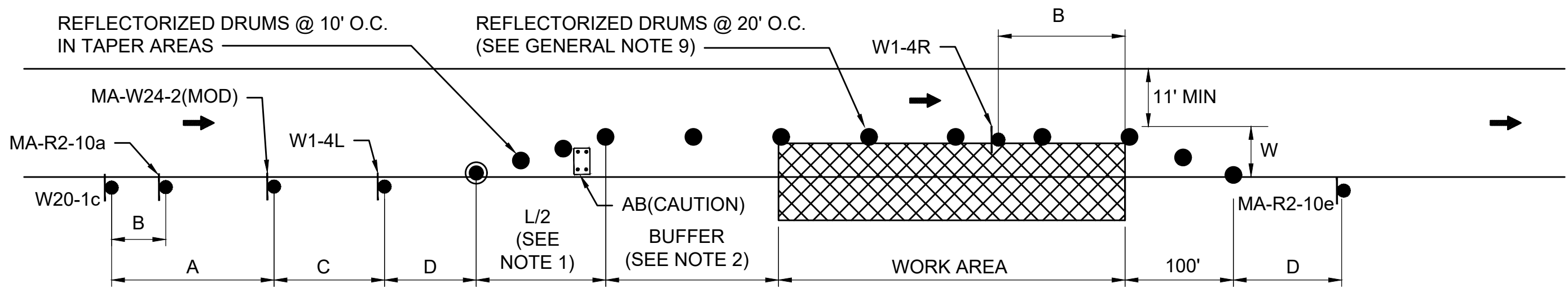
SCALE: NTS



- NOTES:
1. REFER TO ADVANCE SIGN SPACING TABLE ON SHEET TC-01.

TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC

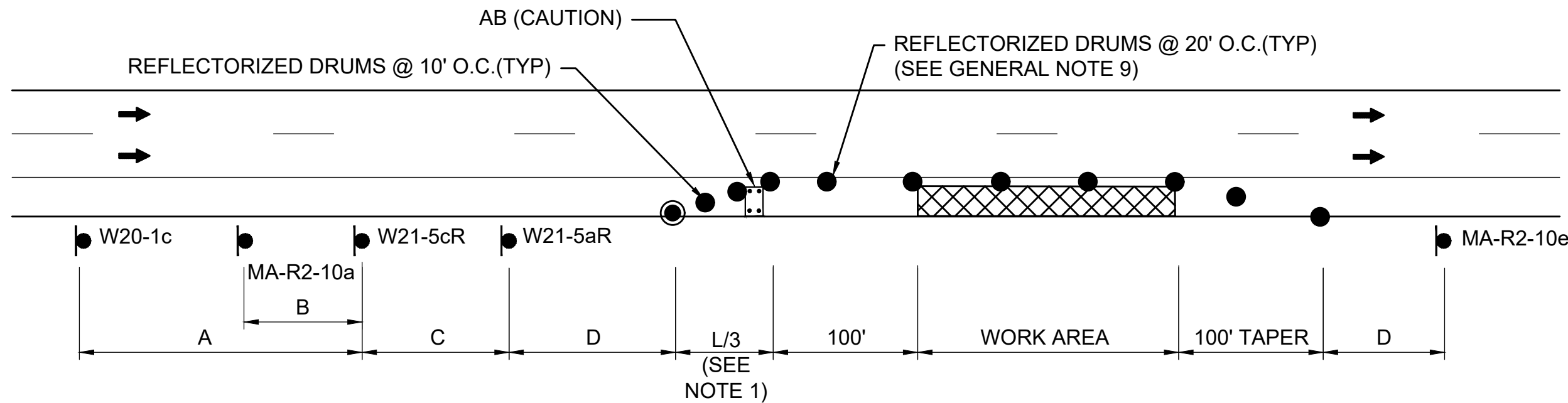
SCALE: NTS



- NOTES:
1. SEE TAPER LENGTH FORMULA ON SHEET TC-01.
 2. SEE BUFFER SPACING CHART ON SHEET TC-01.
 3. SEE ADVANCE SIGN SPACING TABLE ON SHEET TC-01.

TYPICAL ONE-WAY STREET LANE SHIFT-LEFT

SCALE: NTS



- NOTES:
1. SEE TAPER LENGTH FORMULA ON SHEET TC-01.
 2. SEE BUFFER SPACING TABLE ON SHEET TC-01.
 3. SEE ADVANCE SIGN SPACING TABLE ON SHEET TC-01.

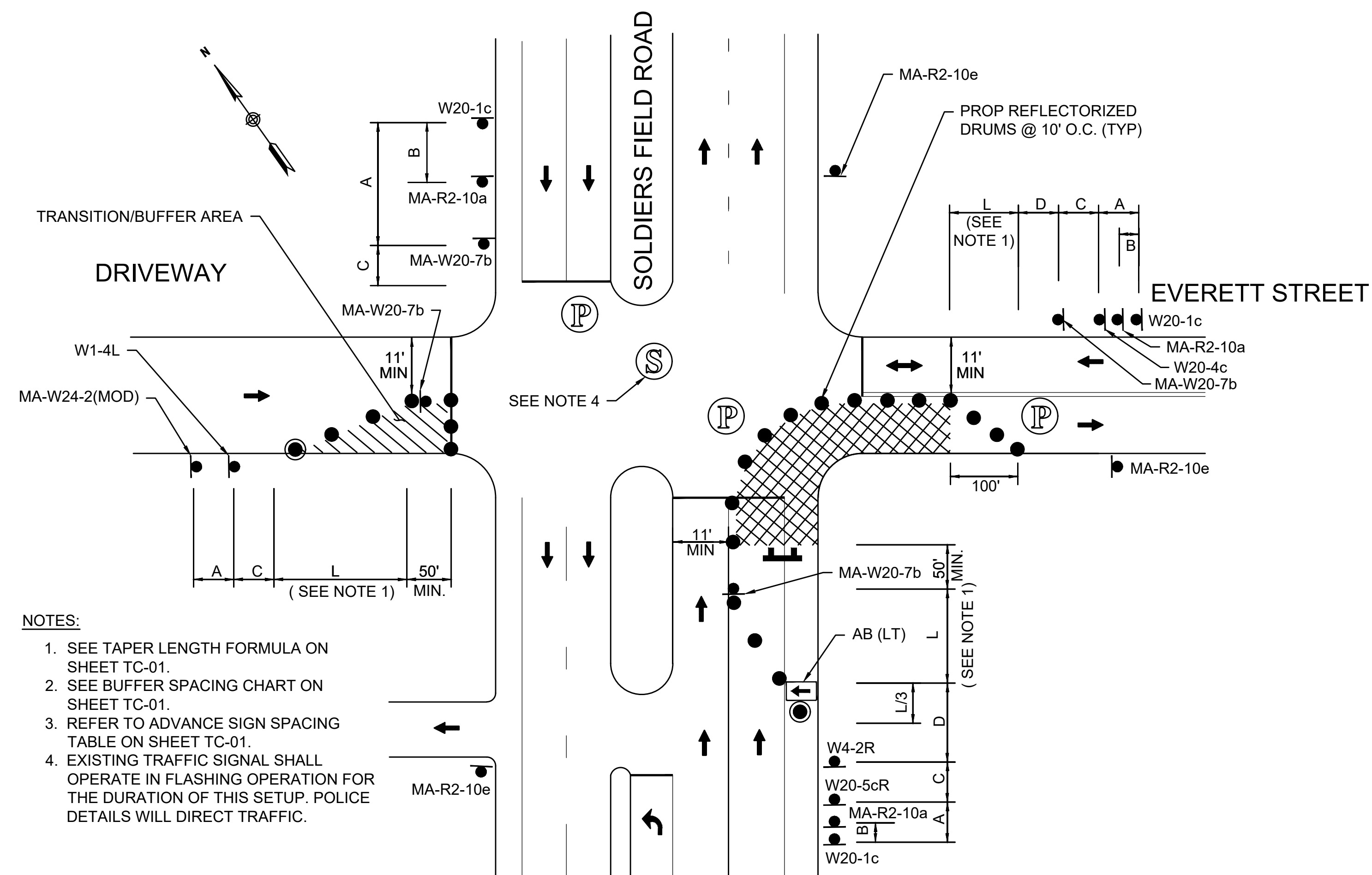
TYPICAL SHOULDER CLOSURE - RIGHT

SCALE: NTS

REV.	DATE	DESCRIPTION	BY

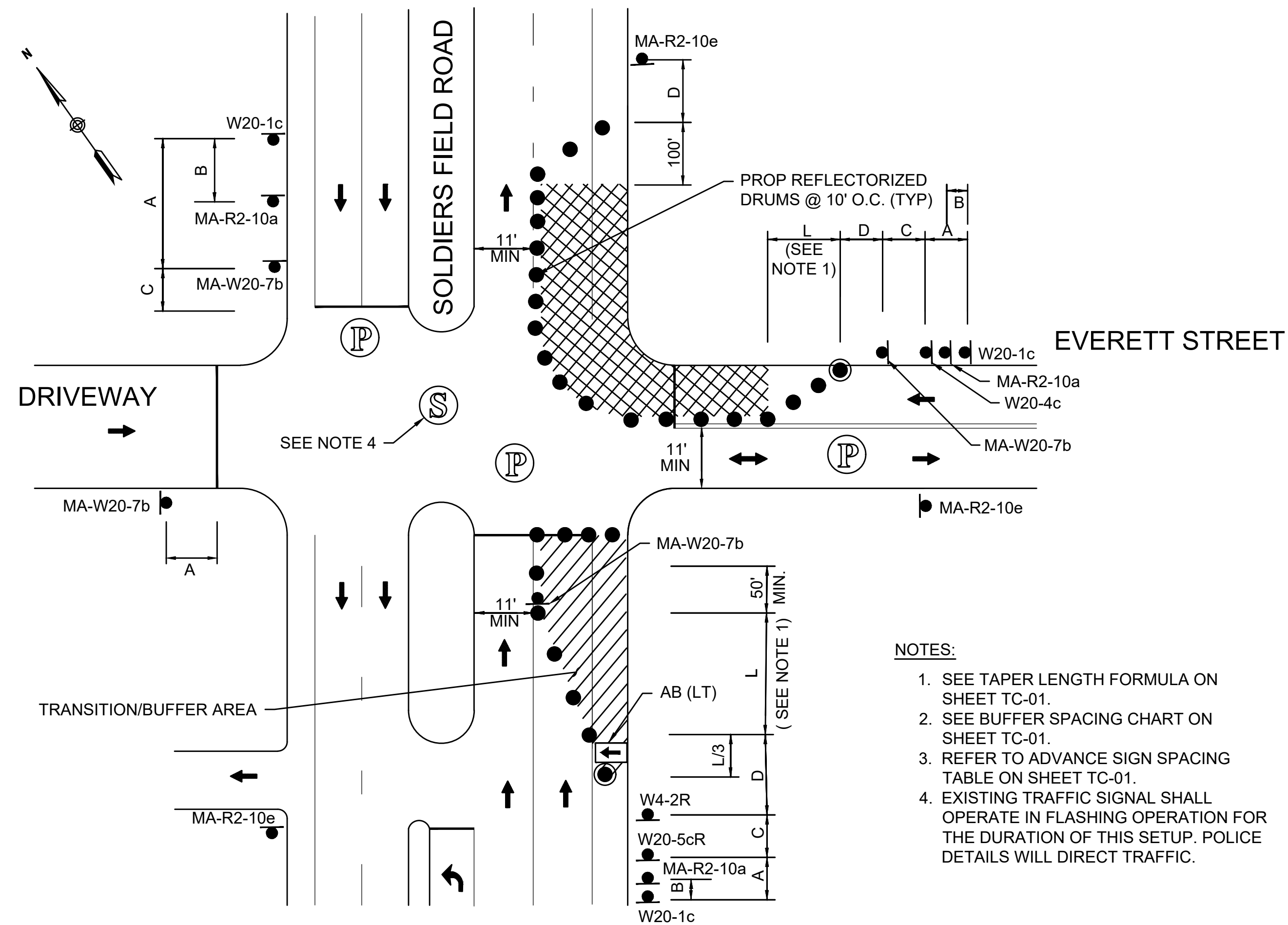
Transportation Land Development
Environmental Services
101 Walnut St., P.O. Box 9151
Watertown, MA 02472
617 924 1770 FAX 617 924 2286

COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION DIVISION OF PLANNING AND ENGINEERING			
TRAFFIC SIGNAL IMPROVEMENTS SOLDIERS FIELD ROAD AT EVERETT STREET ALLSTON, MA			
DESIGNER: KW CHECKED: AA	TEMPORARY TRAFFIC CONTROL PLAN TYPICAL DETAILS		SHEET NO.
DRAWN: KW CHECKED: AA	CONT. P24-3552-C2A ACC. ---	SCALE: NTS DATE: MAY, 2023	TC-02 17 OF 37



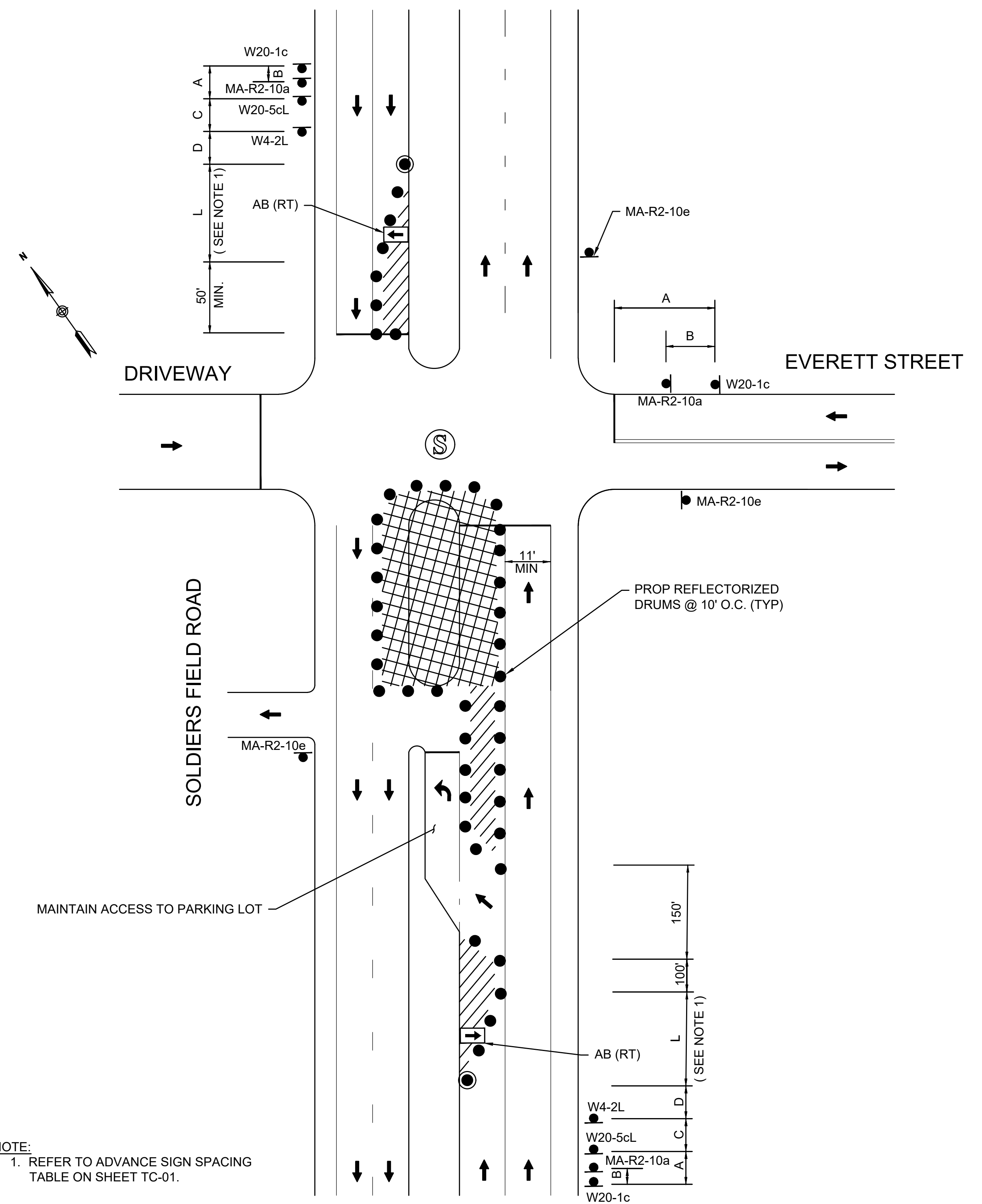
WORK ON THE NEAR SIDE OF INTERSECTION - SOLDIERS FIELD RD EASTBOUND

SCALE: NTS



WORK ON THE FAR SIDE OF INTERSECTION - SOLDIERS FIELD RD EASTBOUND

SCALE: NTS



LEFT LANE CLOSURE AT INTERSECTION - SOLDIERS FIELD RD EASTBOUND

SCALE: NTS

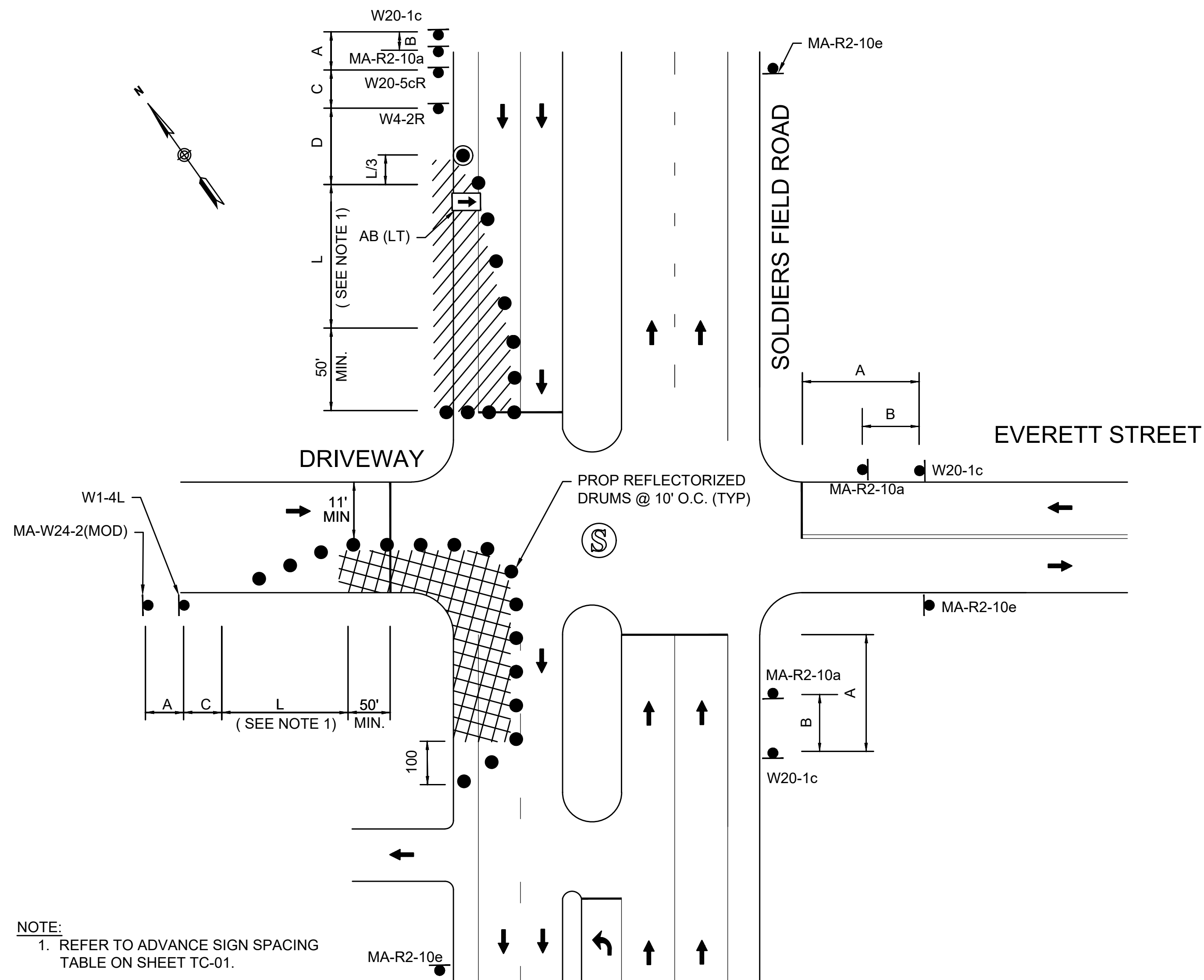
REV.	DATE	DESCRIPTION	BY
		 <p> Transportation Land Development Environmental Services 101 Walnut St., P.O. Box 9151 Watertown, MA 02472 617 924 1770 FAX 617 924 2286 </p>	

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS

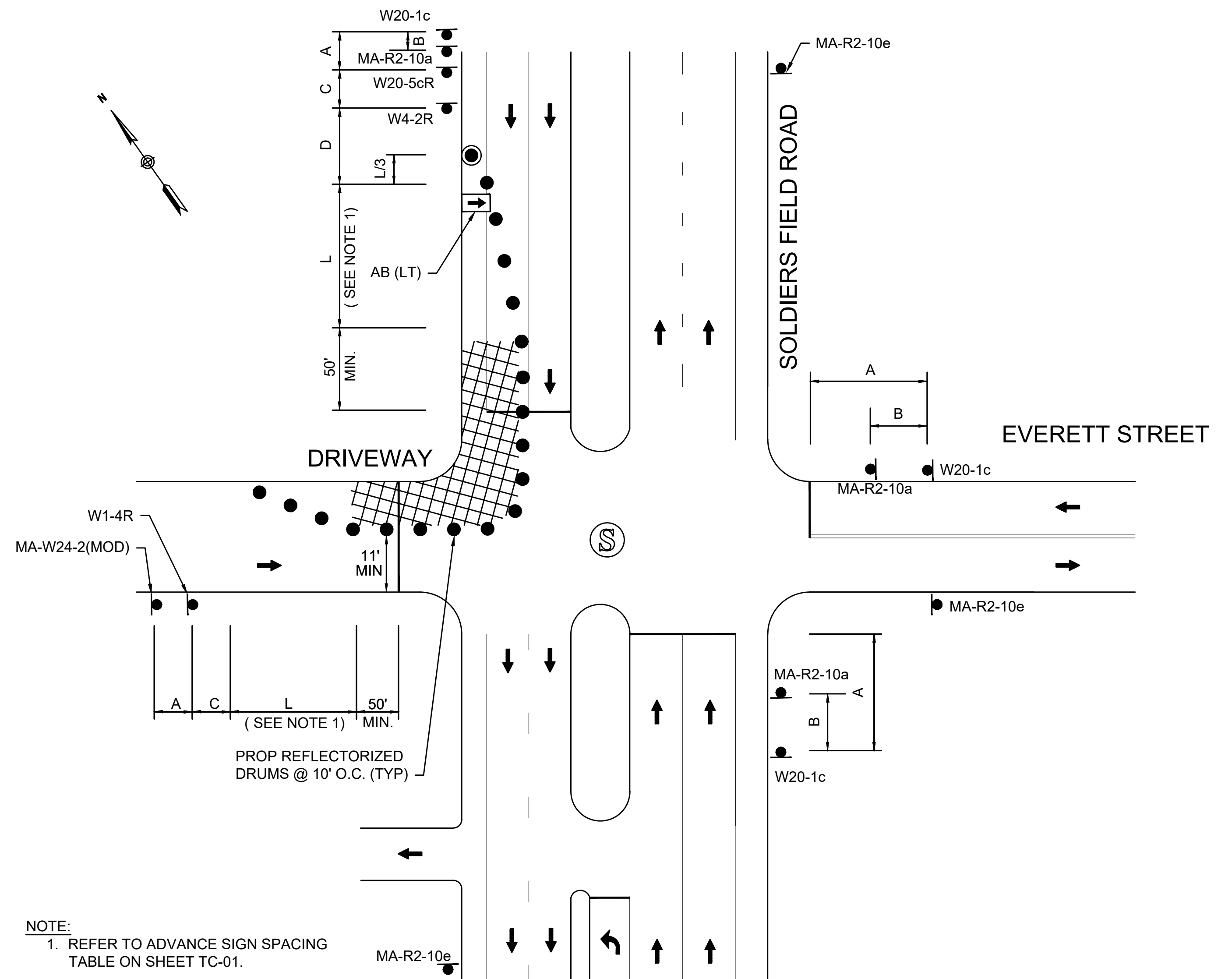
SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

DESIGNER: KW	<div style="border: 1px solid black; padding: 5px; text-align: center;"> TEMPORARY TRAFFIC CONTROL PLAN TYPICAL DETAILS </div>		SHEET NO.
CHECKED: AA			TC-03
DRAWN: KW	CONT. P24-3552-C2A	SCALE: NTS	18 OF 27
CHECKED: AA	ACC. ---	DATE: MAY, 2023	



WORK ON THE FAR SIDE OF INTERSECTION - SOLDIERS FIELD RD WESTBOUND

SCALE: NTS



WORK ON THE NEAR SIDE OF INTERSECTION - SOLDIERS FIELD RD WESTBOUND

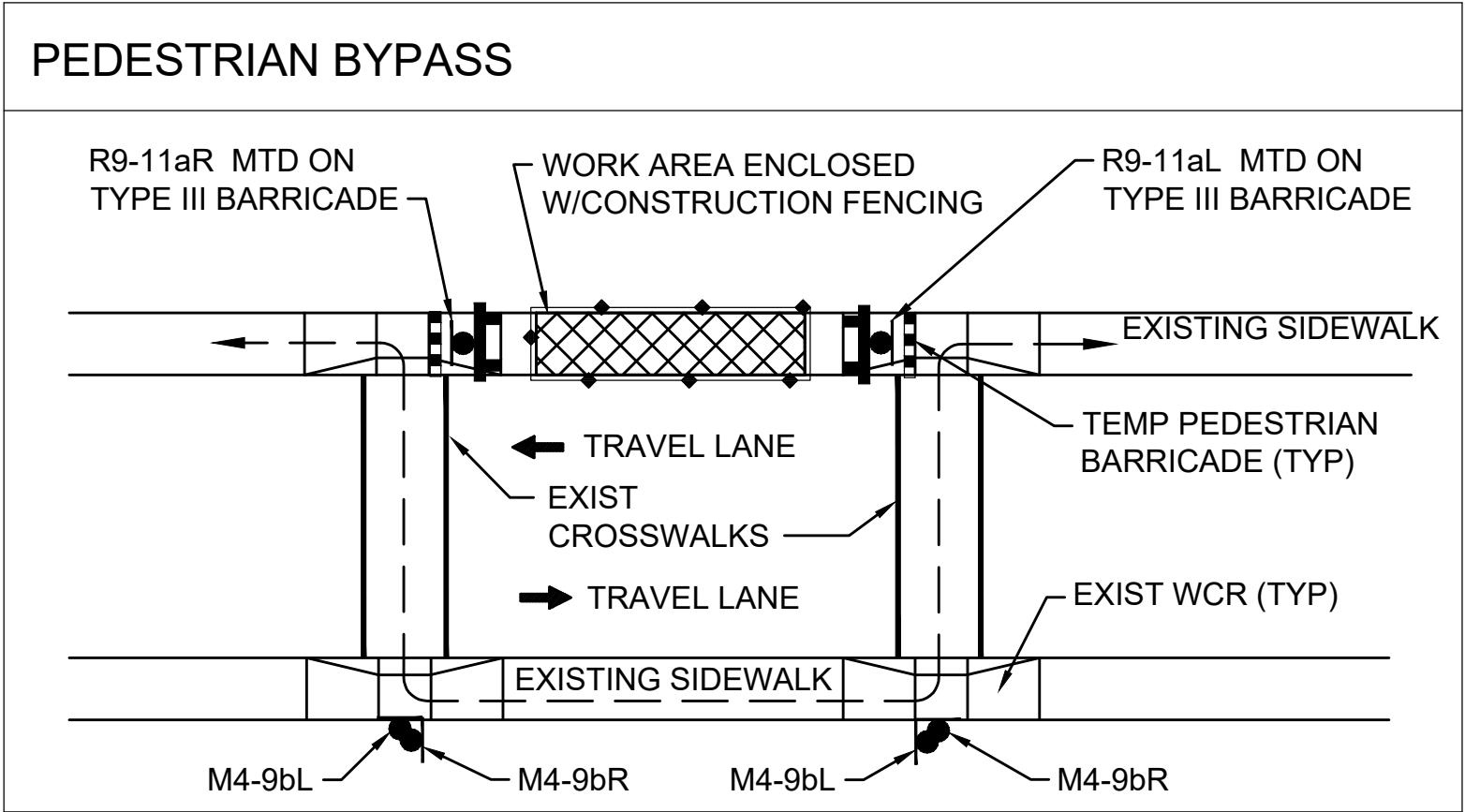
SCALE: NTS

COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION DIVISION OF PLANNING AND ENGINEERING			
TRAFFIC SIGNAL IMPROVEMENTS SOLDIERS FIELD ROAD AT EVERETT STREET ALLSTON, MA			
DESIGNER: KW CHECKED: AA	TEMPORARY TRAFFIC CONTROL PLAN TYPICAL DETAILS	SHEET NO. TC-04	
DRAWN: KW CHECKED: AA	CONT. P24-3552-C2A ACC. ---	SCALE: NTS DATE: MAY, 2023	19 OF 37

REV.	DATE	DESCRIPTION	BY

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PEDESTRIAN BYPASS APPLICATION		
LOCATION	TEMPORARY TRAFFIC CONTROL SETUPS	SHEET#
SOLDIERS FIELD RD WB	- SITE SPECIFIC: PED DETOUR SOLDIERS FIELD RD WB	TC-06
SOLDIERS FIELD RD EB 1	- SITE SPECIFIC: PED DETOUR SOLDIERS FIELD RD EB	TC-07
SOLDIERS FIELD RD EB 2	- SITE SPECIFIC: SIDEWALK CLOSURE SOLDIERS FIELD RD EB	TC-08
EVERETT ST	- TYPICAL DETAIL: PEDESTRIAN BYPASS EVERETT ST	TC-05



NOTES:

1. ADDITIONAL ADVANCE WARNING SIGNS MAY BE NECESSARY AS DETERMINED BY THE ENGINEER.
2. CONTROLS FOR PEDESTRIAN TRAFFIC ONLY, ARE SHOWN. VEHICULAR TRAFFIC SHALL BE MAINTAINED AS SHOWN ELSEWHERE.
3. STREET LIGHTING SHOULD BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
4. ← — → INDICATES DIRECTION OF PEDESTRIAN TRAVEL.
5. ALL TEMPORARY PEDESTRIAN PATHWAYS SHALL COMPLY FULLY WITH ALL REQUIREMENTS OF THE MUTCD AND ALL APPLICABLE MAAB AND ADAAG REQUIREMENTS AND INCLUDE THE USE OF A COMPLIANT TEMPORARY PEDESTRIAN MANAGEMENT GUIDANCE SYSTEM AT ALL TIMES.

PEDESTRIAN BYPASS - EVERETT STREET

SCALE: NTS

REV.	DATE	DESCRIPTION	BY
<div><p>Transportation Land Development Environmental Services 101 Walnut St., P.O. Box 9151 Watertown, MA 02472 617 924 1770 FAX 617 924 2286</p></div>			

COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION DIVISION OF PLANNING AND ENGINEERING			
TRAFFIC SIGNAL IMPROVEMENTS SOLDIERS FIELD ROAD AT EVERETT STREET ALLSTON, MA			
DESIGNER: KW CHECKED: AA	TEMPORARY TRAFFIC CONTROL PLAN TYPICAL DETAILS	SCALE: NTS	SHEET NO. TC-05
DRAWN: KW CHECKED: AA	CONT. P24-3552-C2A ACC. ---	DATE: MAY, 2023	20 OF 37





REV.	DATE	DESCRIPTION	BY



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COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS
SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

DESIGNER: KW
CHECKED: AA

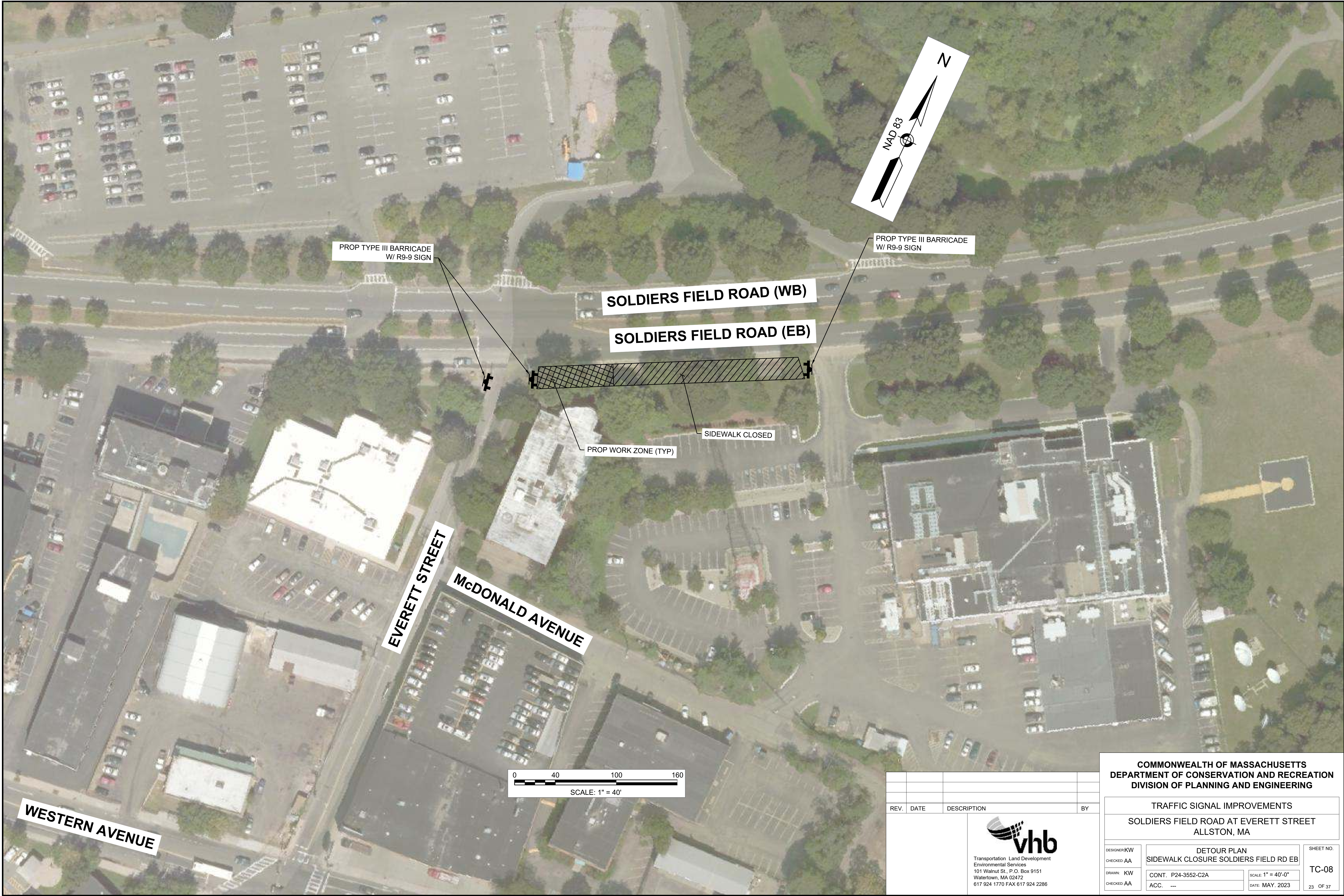
DRAWN: KW
CHECKED: AA

DETOUR PLAN
PED DETOUR SOLDIERS FIELD RD EB

CONT. P24-3552-C2A
ACC. ---

SCALE: 1" = 40'-0"
DATE: MAY, 2023

SHEET NO.
TC-07
22 OF 37



REV.	DATE	DESCRIPTION	BY

v h b
Transportation Land Development
Environmental Services
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Watertown, MA 02472
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COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION DIVISION OF PLANNING AND ENGINEERING		
TRAFFIC SIGNAL IMPROVEMENTS SOLDIERS FIELD ROAD AT EVERETT STREET ALLSTON, MA		
DESIGNER: KW CHECKED: AA	DETOUR PLAN SIDEWALK CLOSURE SOLDIERS FIELD RD EB	SHEET NO.
DRAWN: KW CHECKED: AA	CONT. P24-3552-C2A ACC. ---	TC-08
SCALE: 1" = 40'-0" DATE: MAY, 2023		23 OF 37

PCMS #1- #3 MESSAGE TEXT

7 DAYS PRIOR
TO START OF WORK

ROAD
WORK
BEGINS

DAY
DATE

7 DAYS DURING
CONSTRUCTION

ROAD
WORK
AHEAD

USE
CAUTION

PCMS NOTES:

1. PCMS SHALL BE INSTALLED WITHIN THE EXISTING RIGHT-OF-WAY (ROW) OFF THE ROADWAY AT APPROX. LOCATIONS SHOWN OR AS DIRECTED BY THE ENGINEER. PCMS SHALL NOT BLOCK EXIST SIDEWALK.
2. CONTRACTOR SHALL PROVIDE PCMS A MINIMUM OF 7 DAYS PRIOR TO START OF CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR SHALL REMOVE ALL PCMS SHOWN 7 DAYS AFTER THE START OF CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. DATE ON PCMS MESSAGING SHALL BE COORDINATED WITH DCR.

PCMS #2 (LOCATED ON THE RIGHT SIDE
OF SOLDIERS FIELD RD JUST EAST OF
TELFORD ST IN THE GRASS STRIP)

PCMS #1 (LOCATED ON RIGHT SIDE OF
SOLDIERS FIELD RD JUST EAST OF DR. PAUL
DUDLEY WHITE BIKE PATH PARKING LOT IN
THE GRASS AREA BEHIND THE SIDEWALK)

PCMS #3 (LOCATED ON LEFT SIDE OF
EVERETT ST ACROSS FROM McDONALD
AVENUE IN THE GRASS STRIP)

N

CHARLES RIVER

CAMBRIDGE
BOSTON

SOLDIERS
FIELD ROAD

N. HARVARD ST

WESTERN AVE

McDONALD AVE

WESTERN AVE

RAMP FROM LEO M
BIRINGHAM PKWY

S. WAVERLY ST

LITCHFIELD ST

TELFORD ST

EVERETT ST

LEO M BIRINGHAM PKWY



NOTE:
1. SIGNS LOCATED ON SOLDIERS FIELD ROAD SHALL BE
INSTALLED ON BOTH SIDES OF THE ROADWAY UNLESS
OTHERWISE SHOWN.

REV.	DATE	DESCRIPTION	BY



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Environmental Services
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COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS
SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

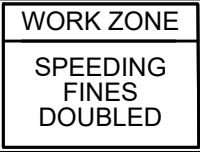
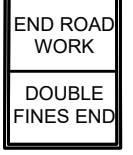

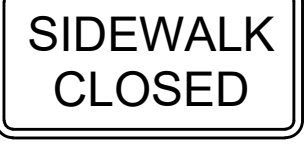
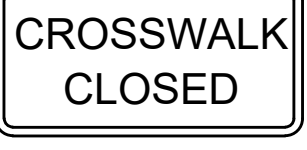
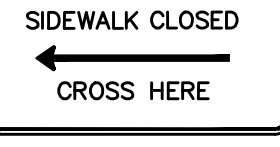
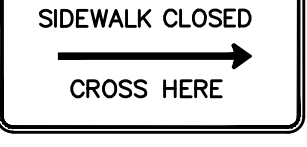
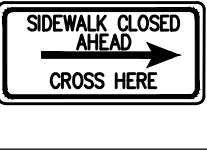


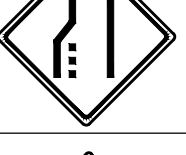
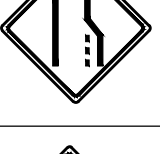
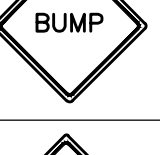

DESIGNER: KW
CHECKED: AA
DRAWN: KW
CHECKED: AA











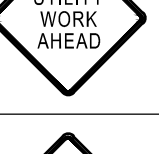

TEMPORARY TRAFFIC CONTROL PLAN
ADVANCE SIGN PLAN

CONT. P24-3552-C2A
ACC. ---

SCALE: 1" = 200'-0"
DATE: MAY, 2023

SHEET NO.
TC-09
24 OF 37




TEMPORARY TRAFFIC CONTROL SIGN SUMMARY									
IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			COLOR		
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	BACK- GROUND	LEGEND	BORDER
MA-R2-10a	48"	36"		AS PER MASSDOT STANDARD			FLUOR- ESCENT ORANGE	BLACK	BLACK
MA-R2-10e	36"	48"					WHITE	BLACK	BLACK
R4-7b	24"	30"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			WHITE	BLACK	BLACK
R9-9	30"	18"					WHITE	BLACK	BLACK
R9-9(MOD)	30"	18"					WHITE	BLACK	BLACK
R9-11aL	24"	12"					WHITE	BLACK	BLACK
R9-11aR	24"	12"					WHITE	BLACK	BLACK
R9-11R	24"	12"					WHITE	BLACK	BLACK
W1-4L	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK
W1-4R	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK
W4-2L	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK
W4-2R	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK
W8-1	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK
W8-3	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK

TEMPORARY TRAFFIC CONTROL SIGN SUMMARY (CONTINUED)									
IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			COLOR		
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	BACK- GROUND	LEGEND	BORDER
W8-8	36"	36"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			FLUOR- ESCENT ORANGE	BLACK	BLACK
W8-9	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK
W8-15	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK
W20-1c	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK
W20-4c	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK
W20-5cL	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK
W20-5cR	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK
MA-W20-7b	36"	36"		AS PER MASSDOT STANDARD			FLUOR- ESCENT ORANGE	BLACK	BLACK
W21-5aR	48"	48"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			FLUOR- ESCENT ORANGE	BLACK	BLACK
W21-5cR	48"	48"					FLUOR- ESCENT ORANGE	BLACK	BLACK
W21-7	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK
MA-W24-2(MOD)	36"	36"		AS PER MASSDOT STANDARD			FLUOR- ESCENT ORANGE	BLACK	BLACK

NOTES:
1. HIGH INTENSITY REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION" FOR TEXT DIMENSIONS, AS AMENDED; THE 1977 MASSHIGHWAY DEPARTMENT CONSTRUCTION AND TRAFFIC STANDARD DETAILS, AS AMENDED, FOR SIGNS AND SUPPORTS; THE MASSHIGHWAY DEPARTMENT SIGN LISTINGS 1993 EDITION, AS AMENDED; THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR MOUNTING REQUIREMENTS; AND THE 2017 MassDOT STANDARD SIGNS BOOK, AS AMENDED.
2. ALL SIGNS SHOWN GRAPHICALLY FOR INFORMATION ONLY. SIGN VENDOR SHALL FABRICATE ALL SIGNS IN ACCORDANCE WITH THE APPLICABLE STANDARDS.

REV.	DATE	DESCRIPTION	BY
 Transportation Land Development Environmental Services 101 Walnut St., P.O. Box 9151 Watertown, MA 02472 617 924 1770 FAX 617 924 2286			

COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION DIVISION OF PLANNING AND ENGINEERING			
TRAFFIC SIGNAL IMPROVEMENTS SOLDIERS FIELD ROAD AT EVERETT STREET ALLSTON, MA			
DESIGNER: KW CHECKED: AA	TEMPORARY TRAFFIC CONTROL PLAN SIGN SUMMARY - 1 OF 2		SHEET NO.
DRAWN: KW CHECKED: AA	CONT. P24-3552-C2A ACC. ---	SCALE: NTS DATE: MAY, 2023	TC-10 25 OF 37

TEMPORARY TRAFFIC CONTROL SIGN SUMMARY (CONTINUED)									
IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			COLOR		
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	BACK- GROUND	LEGEND	BORDER
M4-9bL	30"	24"		SEE FHWA "STANDARD HIGHWAY SIGNS, <u>2004 EDITION</u> "; AS AMENDED			FLUOR- ESCENT ORANGE	BLACK	BLACK
M4-9bR	30"	24"					FLUOR- ESCENT ORANGE	BLACK	BLACK
M4-9bV	30"	24"					FLUOR- ESCENT ORANGE	BLACK	BLACK

- NOTES:
1. HIGH INTENSITY REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION" FOR TEXT DIMENSIONS, AS AMENDED; THE 1977 MASSHIGHWAY DEPARTMENT CONSTRUCTION AND TRAFFIC STANDARD DETAILS, AS AMENDED, FOR SIGNS AND SUPPORTS; THE MASSHIGHWAY DEPARTMENT SIGN LISTINGS 1993 EDITION, AS AMENDED; THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR MOUNTING REQUIREMENTS; AND THE 2017 MassDOT STANDARD SIGNS BOOK, AS AMENDED.
 2. ALL SIGNS SHOWN GRAPHICALLY FOR INFORMATION ONLY. SIGN VENDOR SHALL FABRICATE ALL SIGNS IN ACCORDANCE WITH THE APPLICABLE STANDARDS.

REV.	DATE	DESCRIPTION	BY
		 Transportation Land Development Environmental Services 101 Walnut St., P.O. Box 9151 Watertown, MA 02472 617 924 1770 FAX 617 924 2286	

COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION DIVISION OF PLANNING AND ENGINEERING			
TRAFFIC SIGNAL IMPROVEMENTS			
SOLDIERS FIELD ROAD AT EVERETT STREET ALLSTON, MA			
DESIGNER: KW	TEMPORARY TRAFFIC CONTROL PLAN		SHEET NO. TC-11
CHECKED: AA	SIGN SUMMARY - 2 OF 2		
DRAWN: KW	CONT. P24-3552-C2A	SCALE: NTS	
CHECKED: AA	ACC. ---	DATE: MAY, 2023	
			26 OF 37

1. TO BE PLACED IF CURB IS INSTALLED AFTER HOT MIX ASPHALT.
2. CONCRETE SHALL BE INCLUDED IN PRICE BID FOR GRANITE CURB.
3. ANY DESIGNATED CEMENT CONCRETE THAT IS ACCEPTABLE UNDER SECTION M4 OF THE STANDARD SPECIFICATIONS MAY BE USED. ALL TEST REQUIREMENTS ARE WAIVED. HOT MIX ASPHALT SHALL NOT BE USED AS A SUBSTITUTE.

- * 6" OF HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE SHALL BE INCLUDED IN PRICE BID FOR GRANITE CURB.

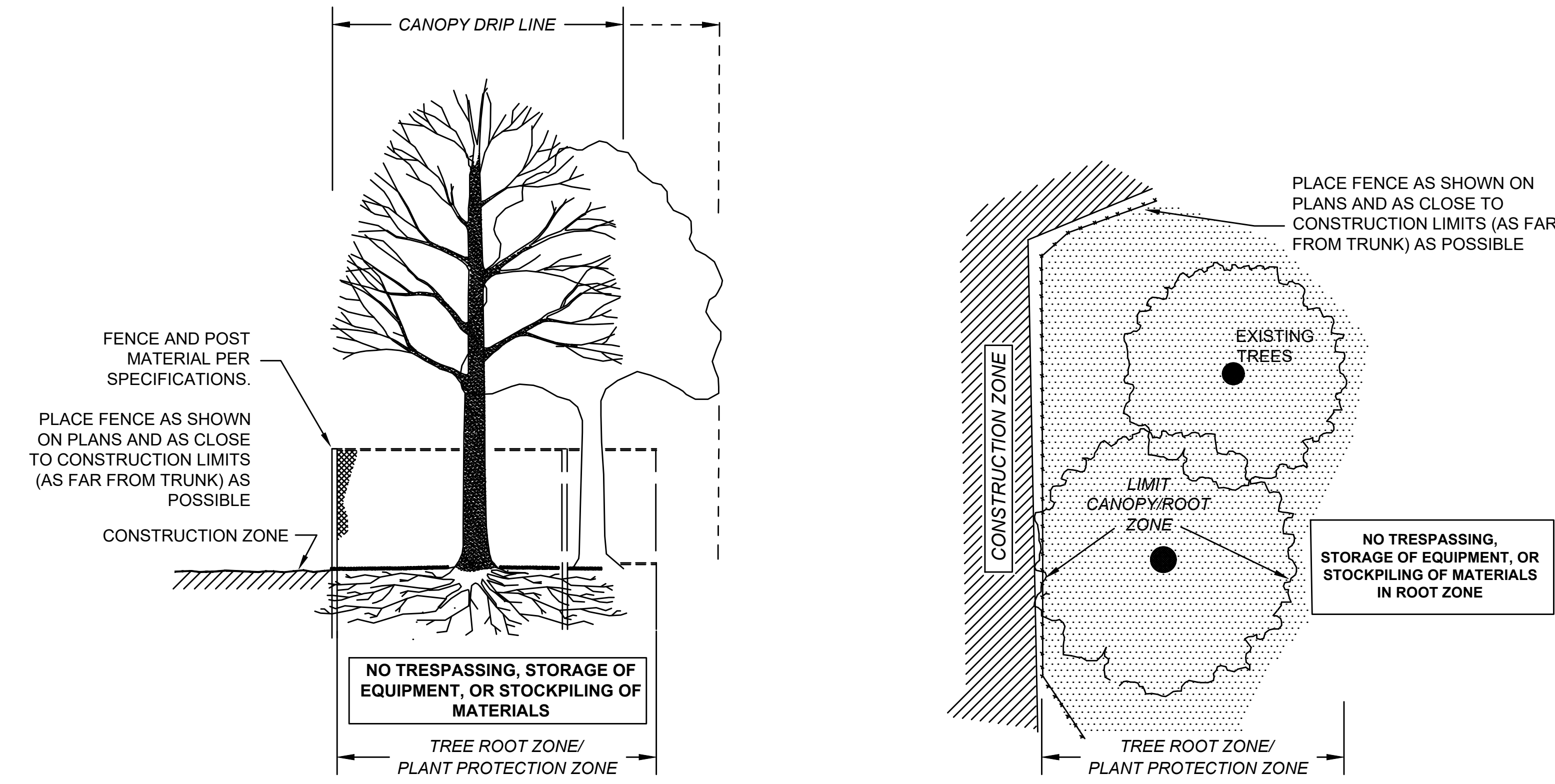
1. CONCRETE SHALL BE INCLUDED IN PRICE BID FOR GRANITE CURB.
2. SAWCUT 6" FROM CURB LINE AND REMOVE EXISTING PAVEMENT AND GRAVEL. REPLACE WITH CEMENT CONCRETE.
3. ANY DESIGNATED CEMENT CONCRETE THAT IS ACCEPTABLE UNDER SECTION M4 OF THE STANDARD SPECIFICATIONS MAY BE USED. ALL TEST REQUIREMENTS ARE WAIVED. HOT MIX ASPHALT SHALL NOT BE USED AS A SUBSTITUTE.

1. BASED ON ACTUAL FIELD CONDITIONS; THE CONTRACTOR SHALL DETERMINE WHICH STYLE OF THE SECTION SHOULD BE USED.

++ MINIMUM REQUIREMENTS:
IN ROADWAY: MATCH EXISTING ROADWAY PAVEMENT DEPTHS (ITEM 451)
OTHER PAVEMENT LOCATIONS: 2.5" MIN (ITEM 451)

* CONTROLLED DENSITY FILL TO BE USED ONLY WHEN CONVENTIONAL METHODS ARE UNUSUALLY DIFFICULT AS DETERMINED BY THE ENGINEER DUE TO OBSTRUCTIONS.

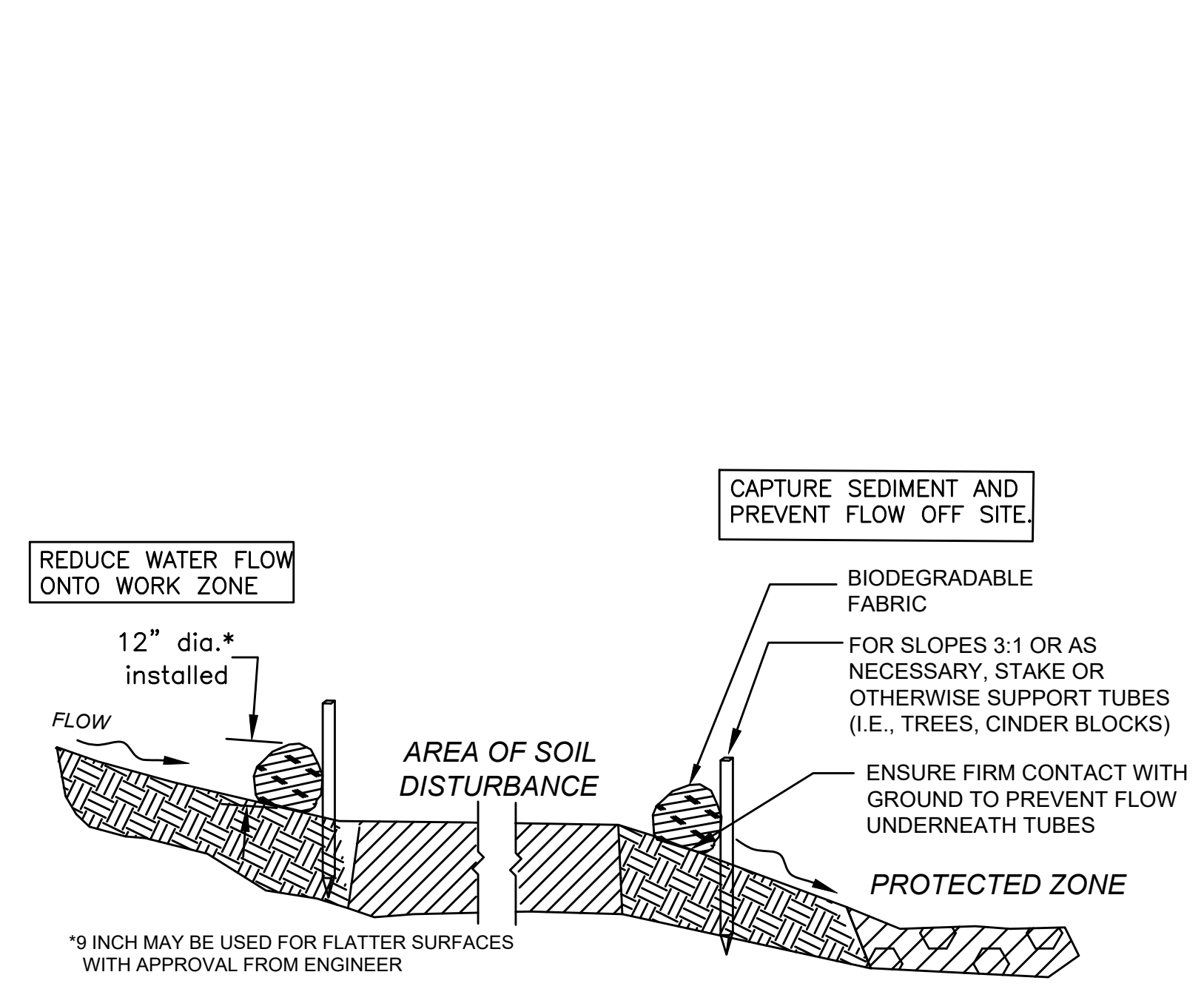
1. INSTALL SILT SACK IN EXISTING CATCH BASINS, BEFORE COMMENCING WORK, AND IN NEW CATCH BASINS IMMEDIATELY AFTER INSTALLATION OF STRUCTURE. MAINTAIN UNTIL INTERMEDIATE COURSE PAVING IS COMPLETE OR A PERMANENT STAND OF GRASS HAS BEEN ESTABLISHED.
2. GRATE TO BE PLACED OVER SILT SACK.
3. SILT SACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED



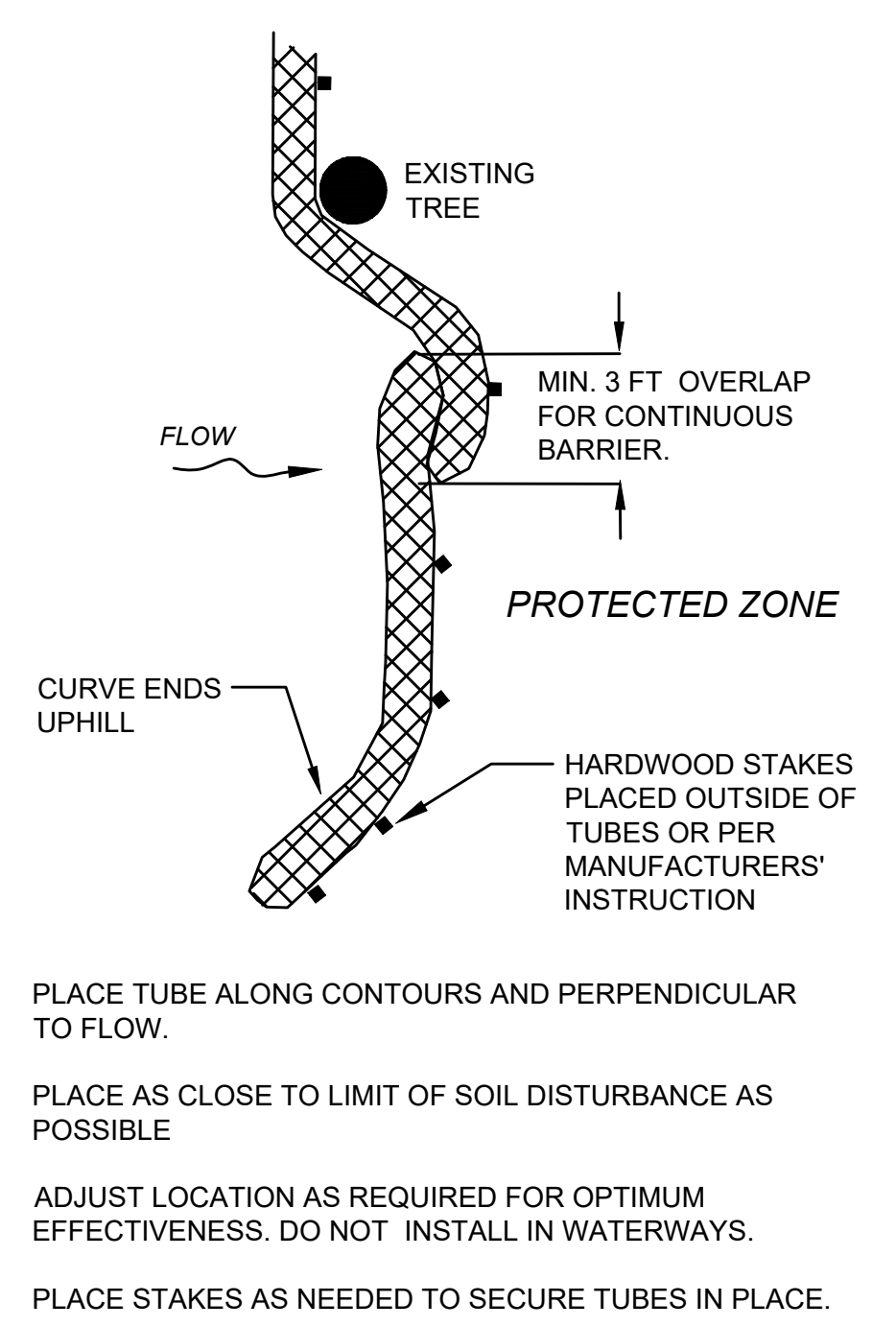
SECTION - FENCE PROTECTION OF ROOT ZONE

PLAN VIEW - FENCE PROTECTION OF ROOT ZONE

TREE PROTECTION ROOT ZONE
NOT TO SCALE

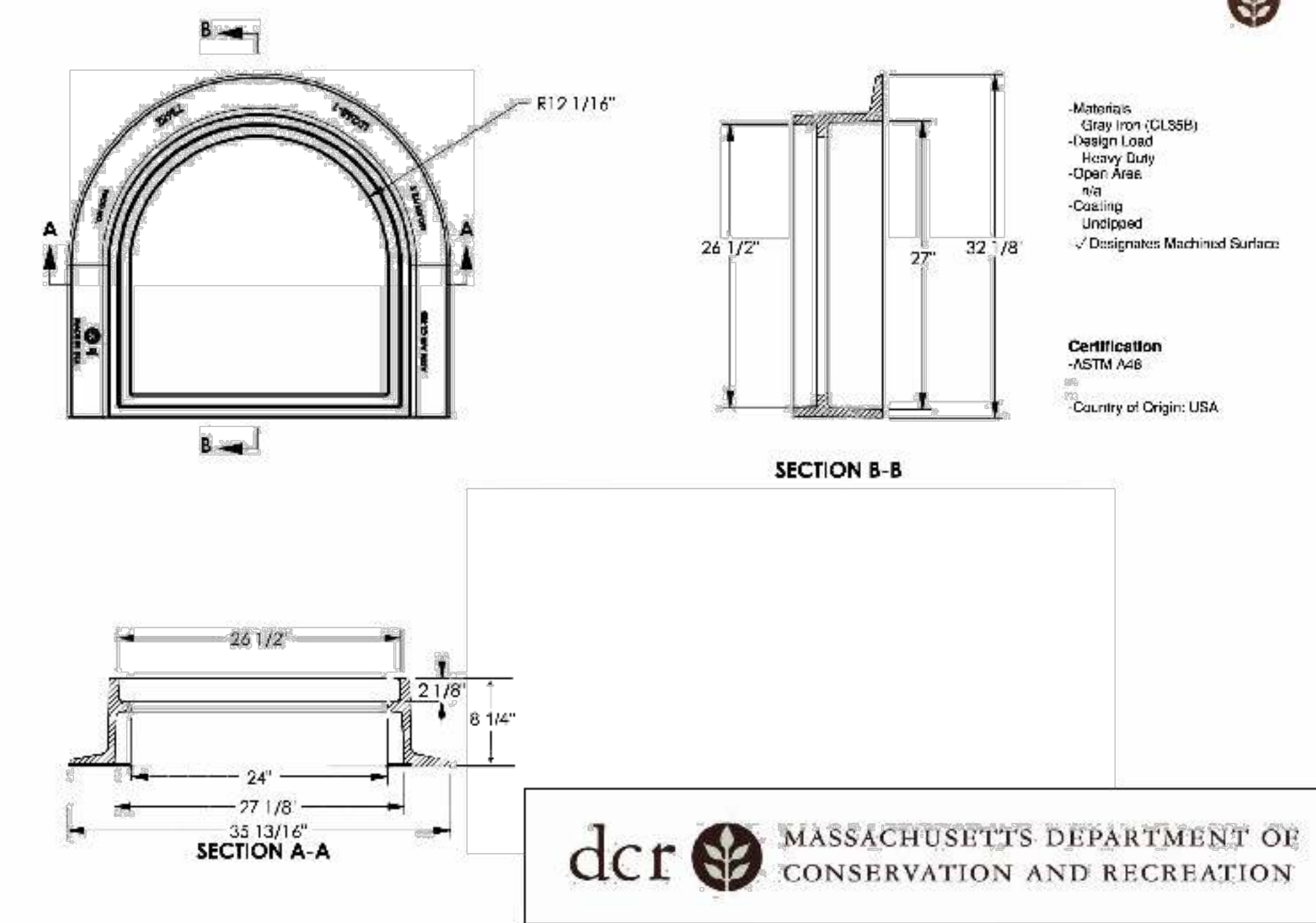


SECTION
SEDIMENT BARRIERS - COMPOST FILTER TUBES
NOT TO SCALE

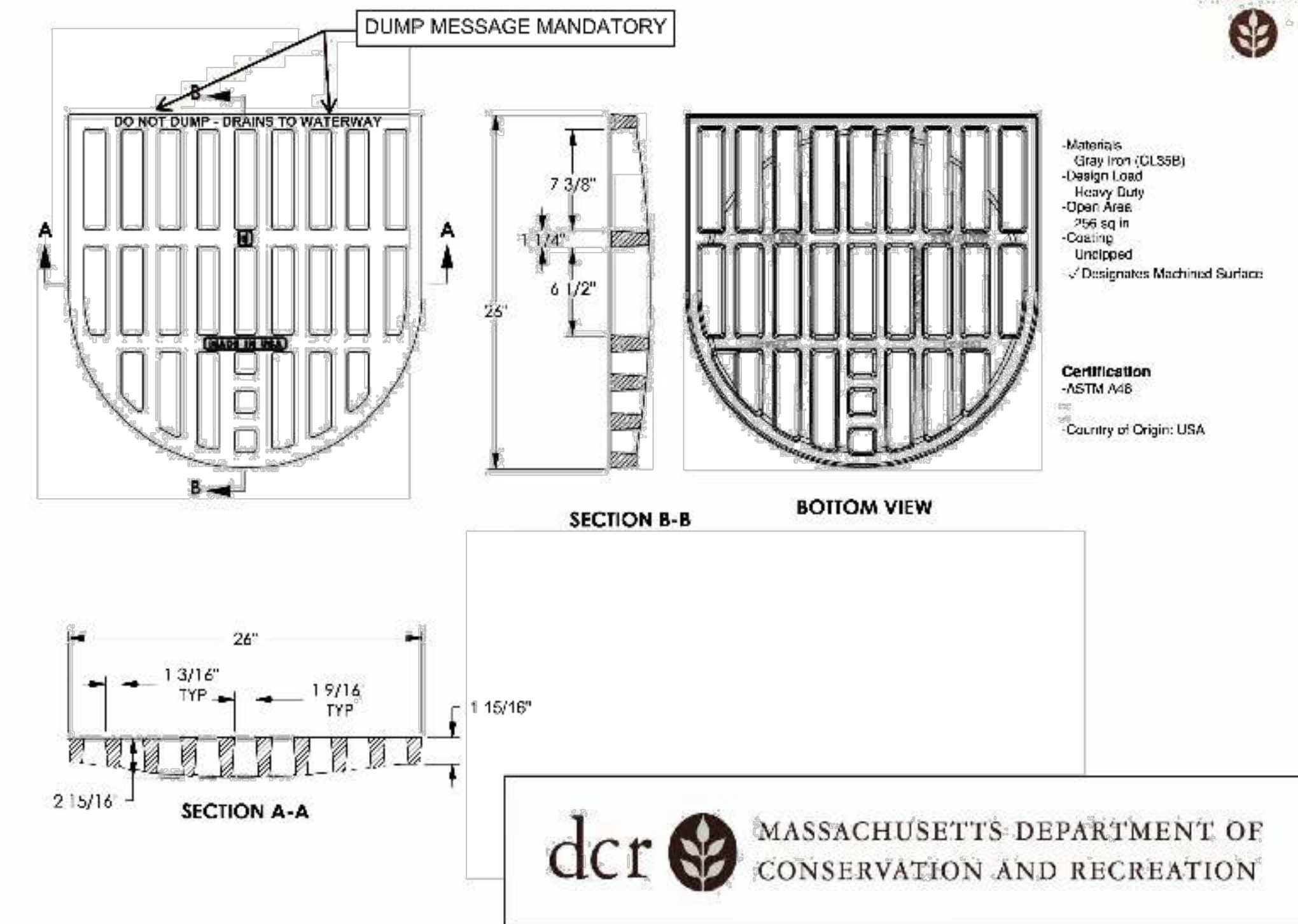


PLAN VIEW
SEDIMENT BARRIERS
NOT TO SCALE

7268Z Frame



7268M1 Grate

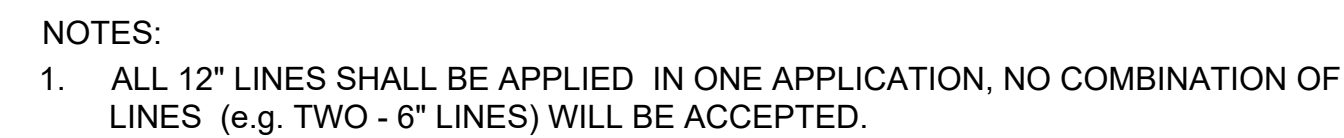


CATCH BASIN FRAME AND GRATE - "D" STYLE
SCALE: N.T.S.

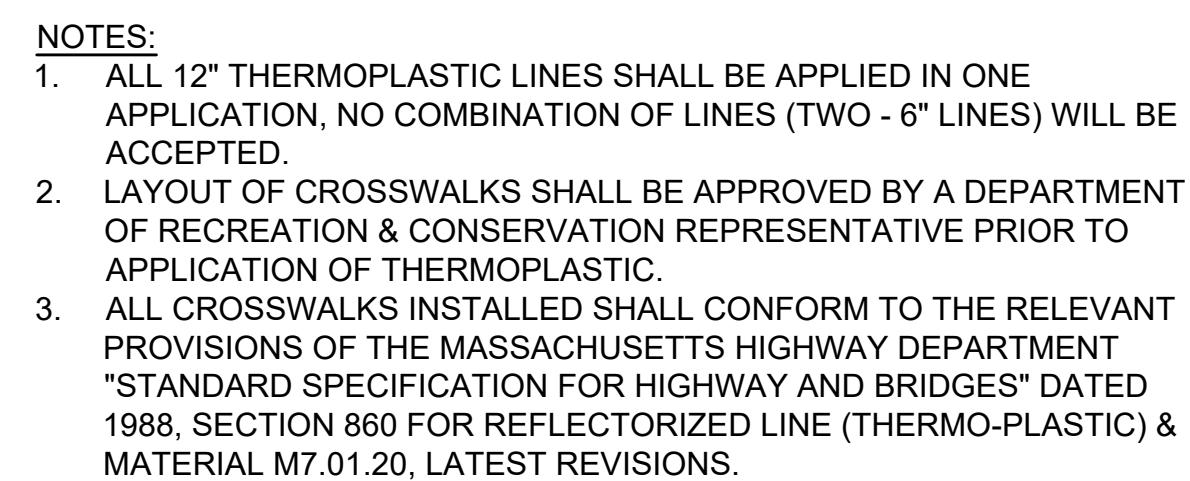
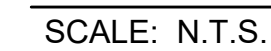
REV.	DATE	DESCRIPTION	BY

vhb
Transportation Land Development
Environmental Services
101 Walnut St., P.O. Box 9151
Watertown, MA 02472
617 924 1770 FAX 617 924 2286

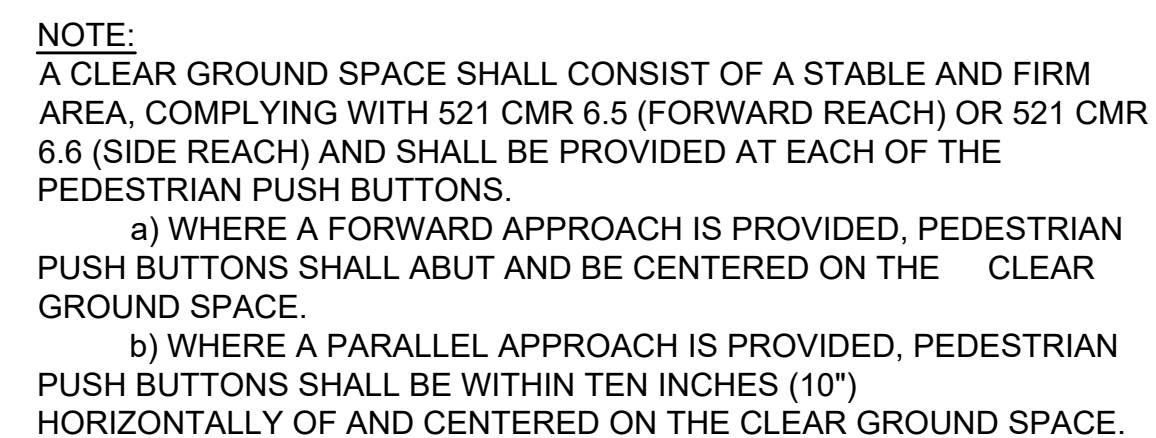
COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION DIVISION OF PLANNING AND ENGINEERING			
TRAFFIC SIGNAL IMPROVEMENTS SOLDIERS FIELD ROAD AT EVERETT STREET ALLSTON, MA			
DESIGNER: AL	CONSTRUCTION DETAILS		SHEET NO.
CHECKED: SHK	CONT. P24-3552-C2A		CD-02
DRAWN: AL	ACC. ---	SCALE: NTS	33 OF 37
CHECKED: SHK	DATE: MAY, 2023		



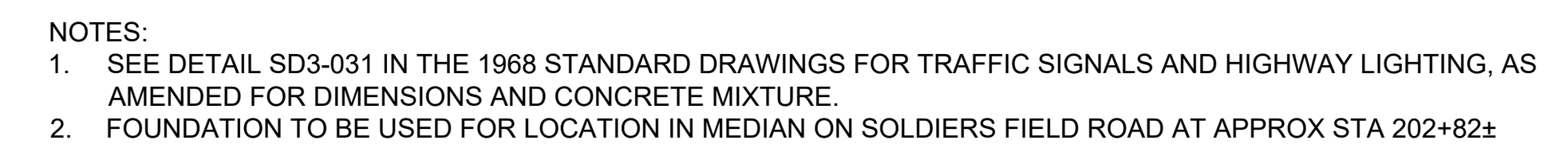
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SCALE: N.T.S.

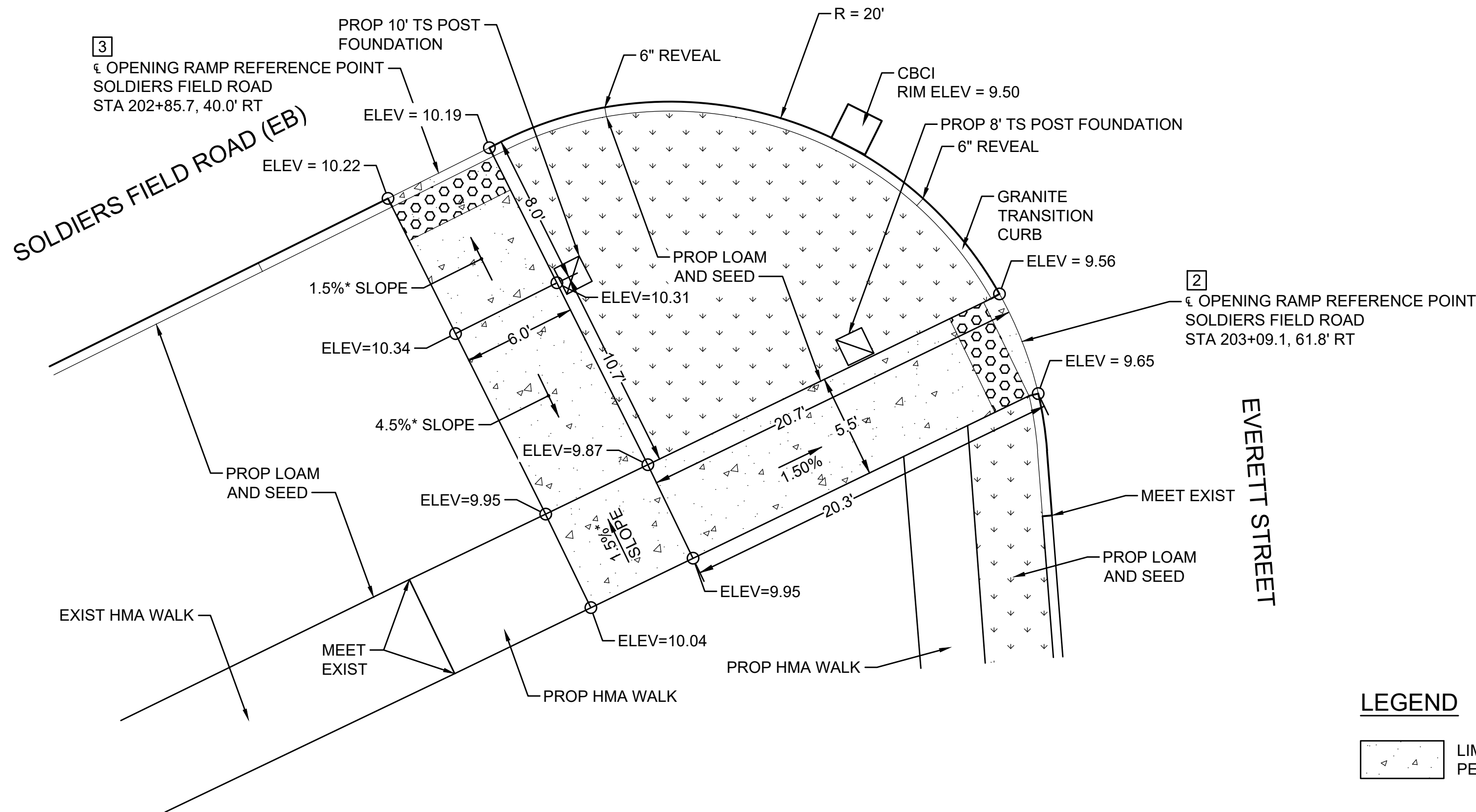


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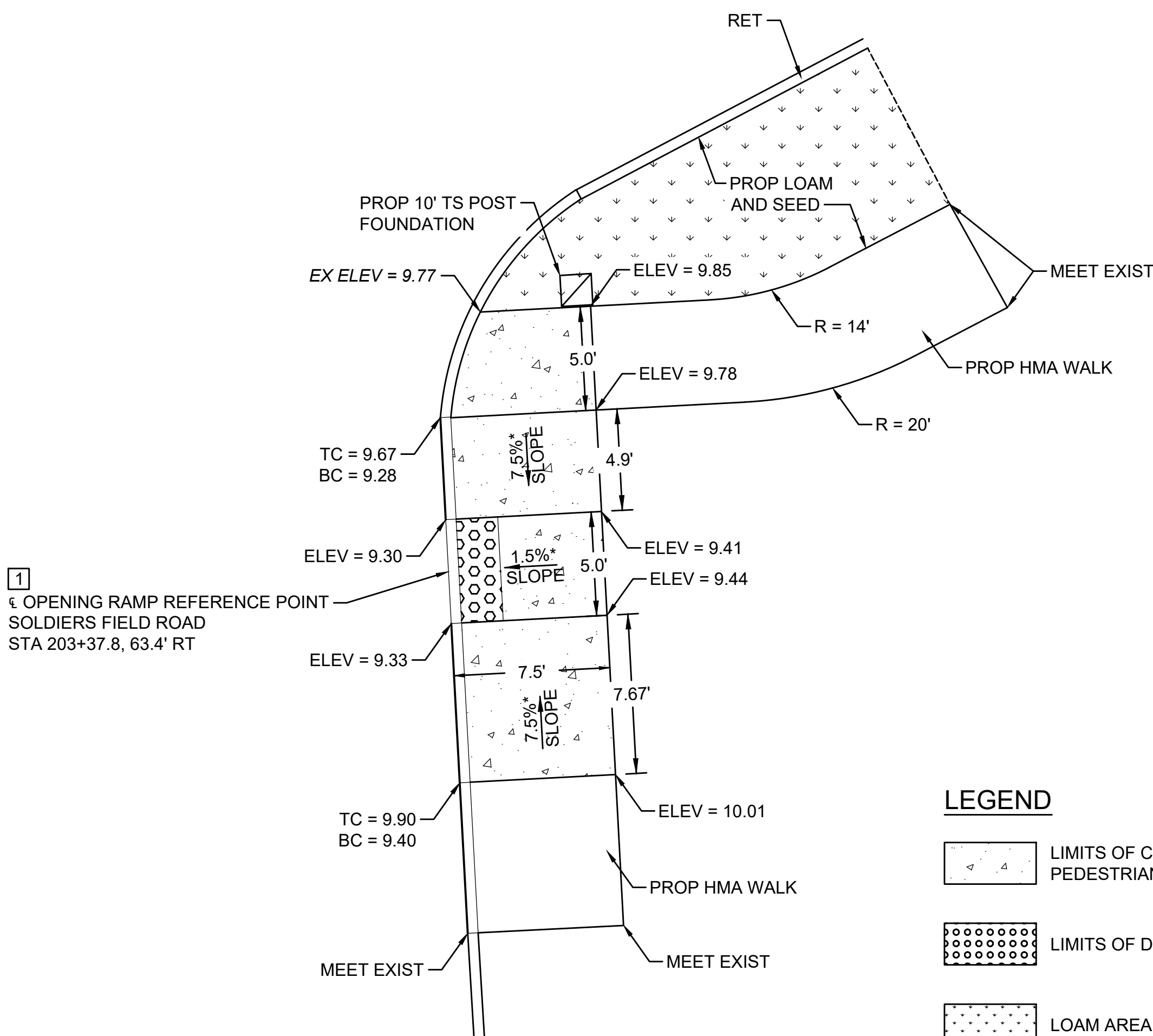
SCALE: N.T.S.

DESIGNER: AL	CONSTRUCTION DETAILS		SHEET NO.
CHECKED: SHK			CD-03
DRAWN: AL	CONT. P24-3552-C2A	SCALE: NTS	29 OF 37
CHECKED: SHK	ACC. ---	DATE: MAY, 2023	



*TOLERANCE FOR CONSTRUCTION ±0.5%

PEDESTRIAN CURB RAMPS #2 AND #3



*TOLERANCE FOR CONSTRUCTION ±0.5%

PEDESTRIAN CURB RAMP #1

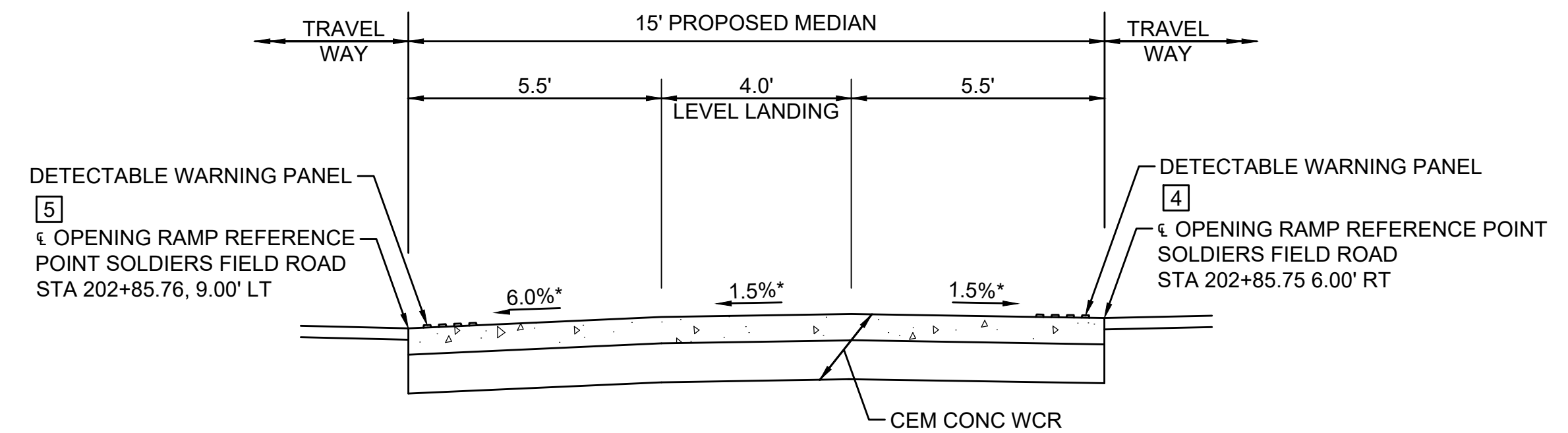
LEGEND

- LIMITS OF CEMENT CONCRETE PEDESTRIAN CURB RAMP
- LIMITS OF DETECTABLE WARNING PANEL
- LOAM AREA

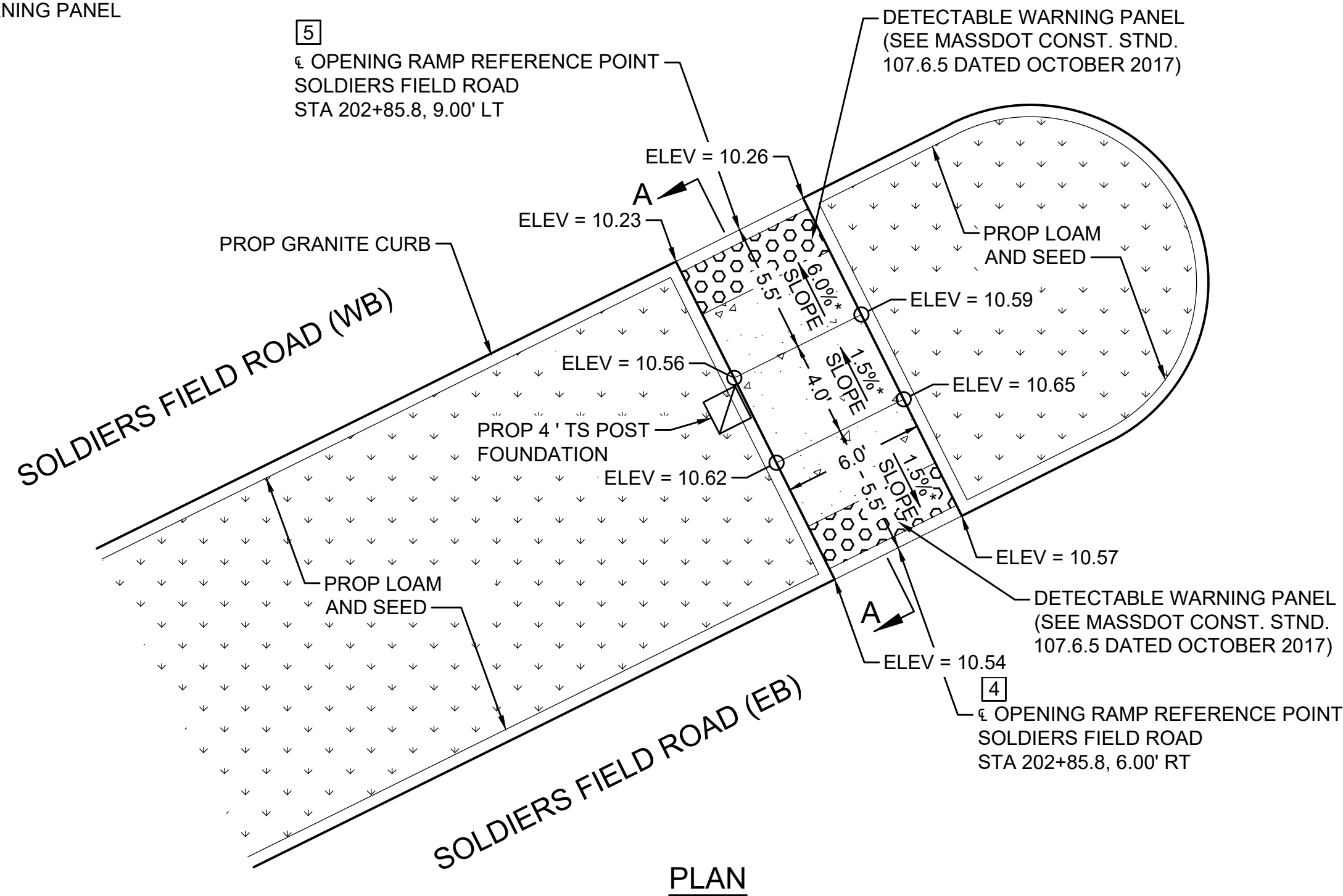
PEDESTRIAN CURB RAMP DATA						
NO.	LOCATION (REFERENCE POINT)	SIDEWALK WIDTH	ROADWAY GUTTER SLOPE	TRANSITION LENGTH		OPENING ELEVATION
				LEFT SIDE	RIGHT SIDE	
SOLDIERS FIELD ROAD						
4	202+85.76, 9.00' LT	6.0'	0.33%	N/A	N/A	10.55
5	202+85.75 6.00' RT	6.0'	0.33%	N/A	N/A	10.24

NOTE:

- TOLERANCE FOR CONSTRUCTION ±0.5%.



SECTION A-A



*TOLERANCE FOR CONSTRUCTION ±0.5%

PEDESTRIAN CURB RAMPS #4 AND #5

SCALE: N.T.S.

REV.	DATE	DESCRIPTION	BY



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COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS

SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

CONSTRUCTION DETAILS

DESIGNER: AL
CHECKED: SHK
DRAWN: AL
CHECKED: SHK

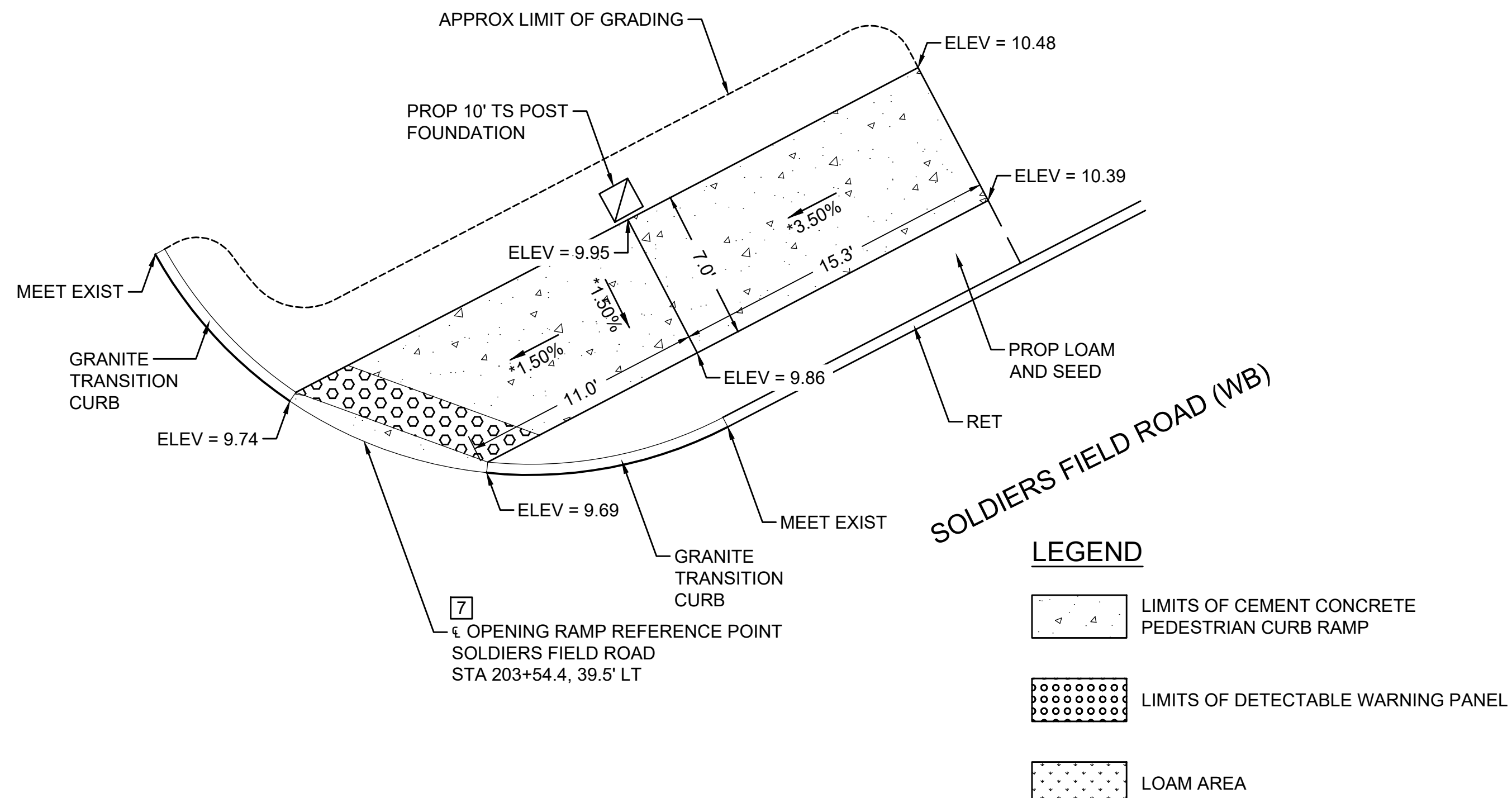
CONT: P24-3552-C2A
ACC: ---

SCALE: NTS
DATE: MAY, 2023

SHEET NO.

CD-04

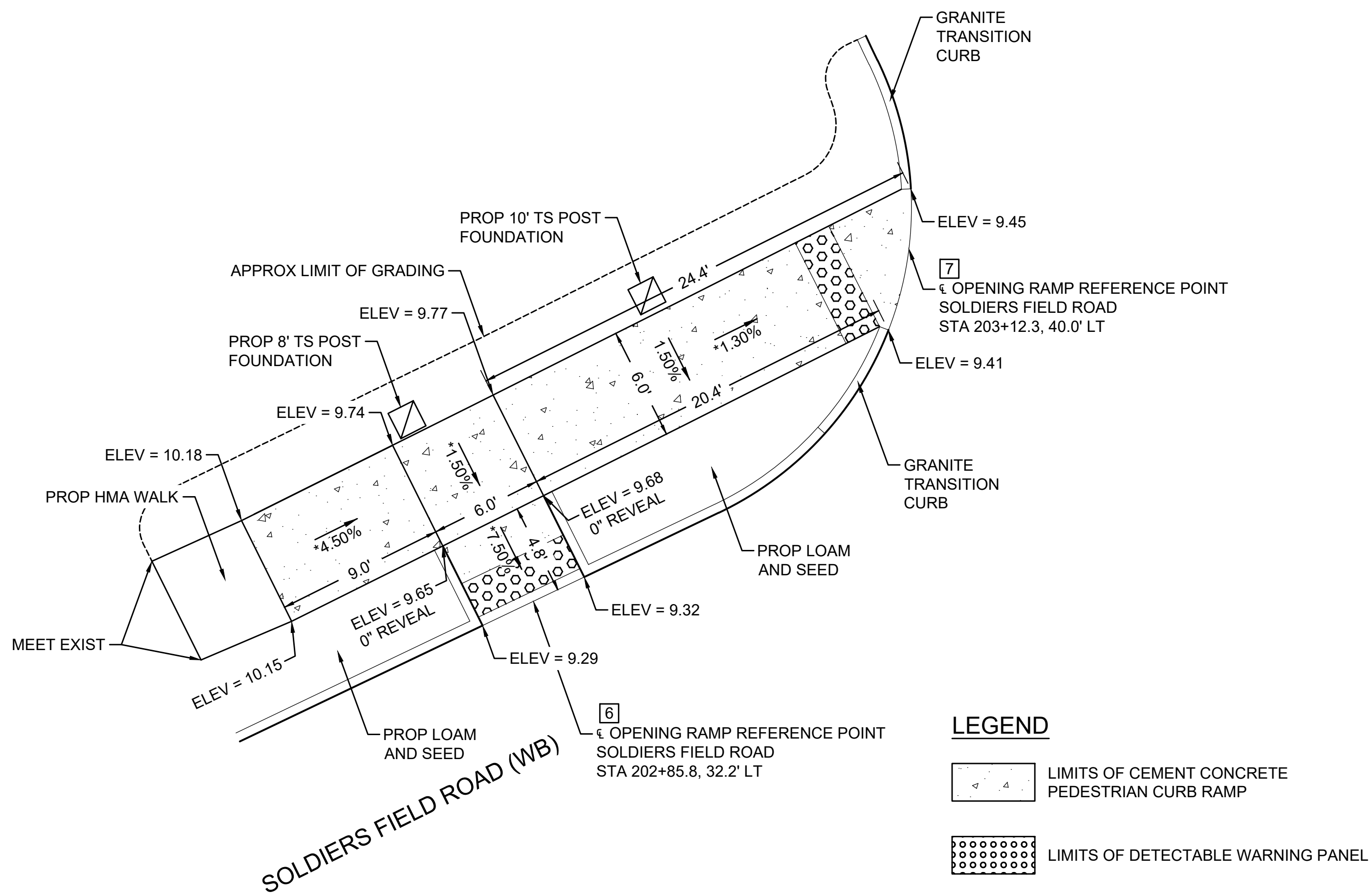
30 OF 37



*TOLERANCE FOR CONSTRUCTION $\pm 0.5\%$

PEDESTRIAN CURB RAMP #8

SCALE: N.T.S.



*TOLERANCE FOR CONSTRUCTION $\pm 0.5\%$

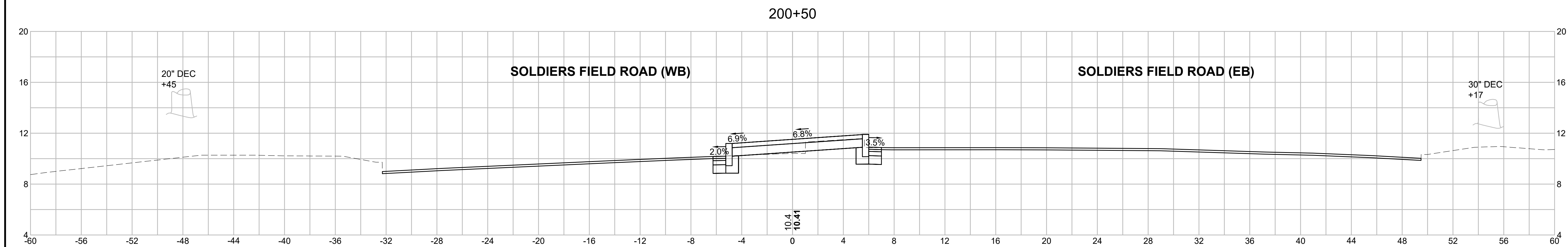
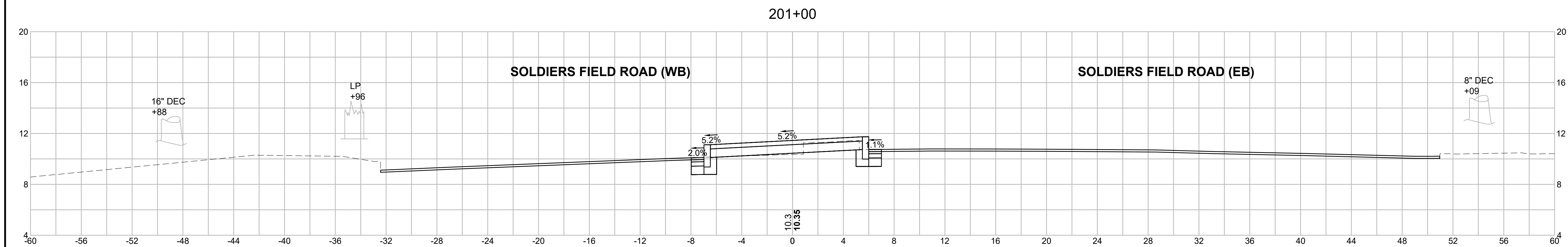
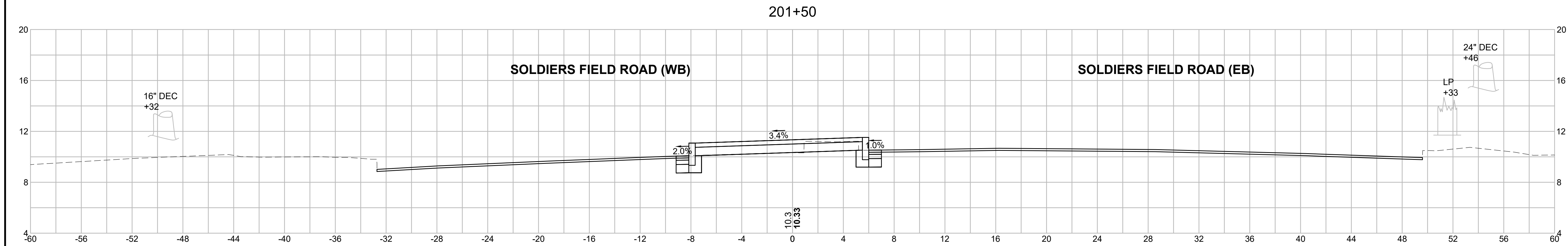
PEDESTRIAN CURB RAMPS #6 AND #7

SCALE: N.T.S.

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TRAFFIC SIGNAL IMPROVEMENTS			
SOLDIERS FIELD ROAD AT EVERETT STREET ALLSTON, MA			
DESIGNER: AL	CONSTRUCTION DETAILS		SHEET NO.
CHECKED: SHK			CD-05
DRAWN: AL	CONT: P24-3552-C2A	SCALE: NTS	
CHECKED: SHK	ACC. ---	DATE: MAY, 2023	31 OF 37



REV.	DATE	DESCRIPTION	BY

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TRAFFIC SIGNAL IMPROVEMENTS
SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

DESIGNER: AL
CHECKED: SHK

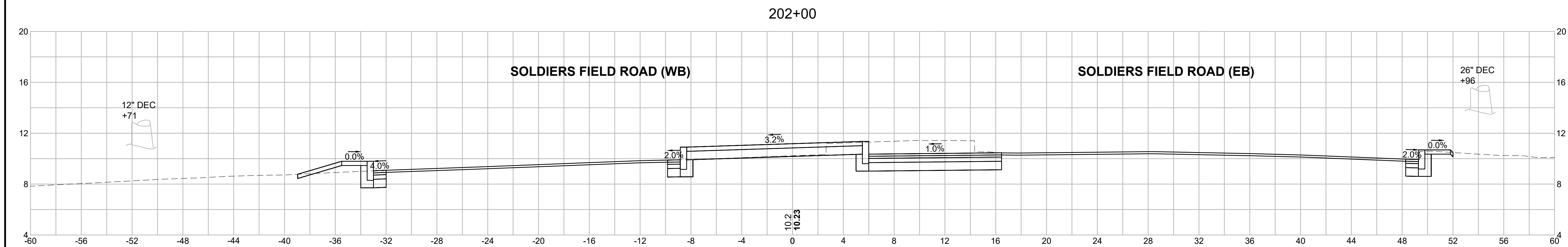
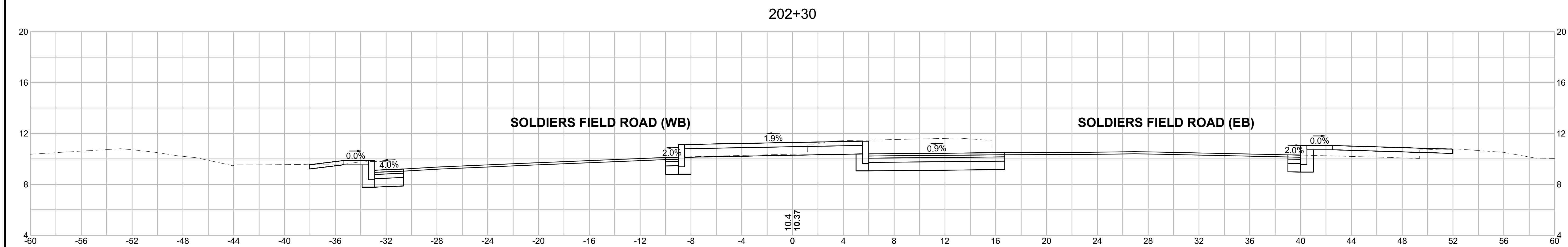
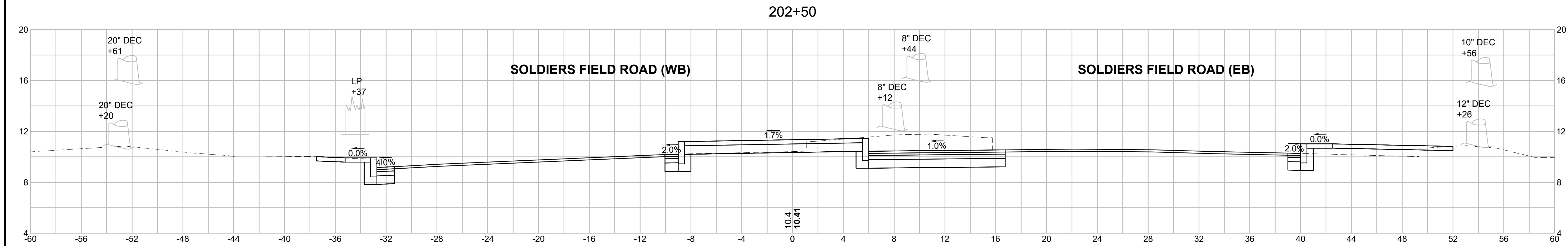
DRAWN: AL
CHECKED: SHK

CROSS SECTIONS

CONT. P24-3552-C2A
ACC. ---

SCALE: 1" = 4'
DATE: MAY, 2023

SHEET NO.
CS-01
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REV.	DATE	DESCRIPTION	BY



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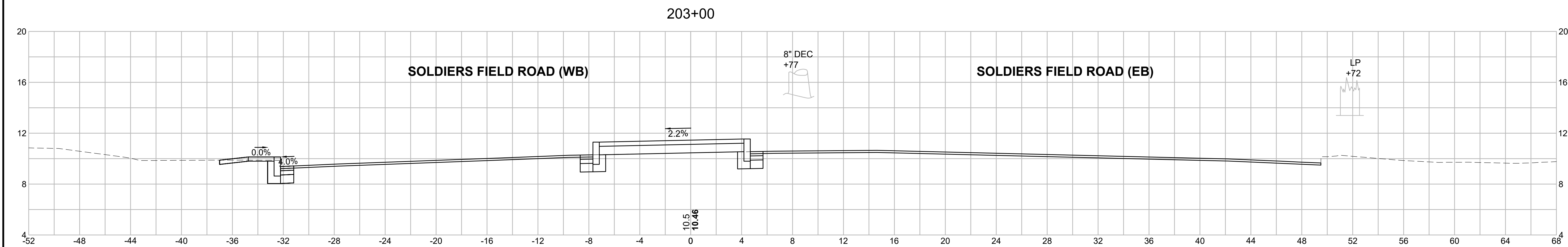
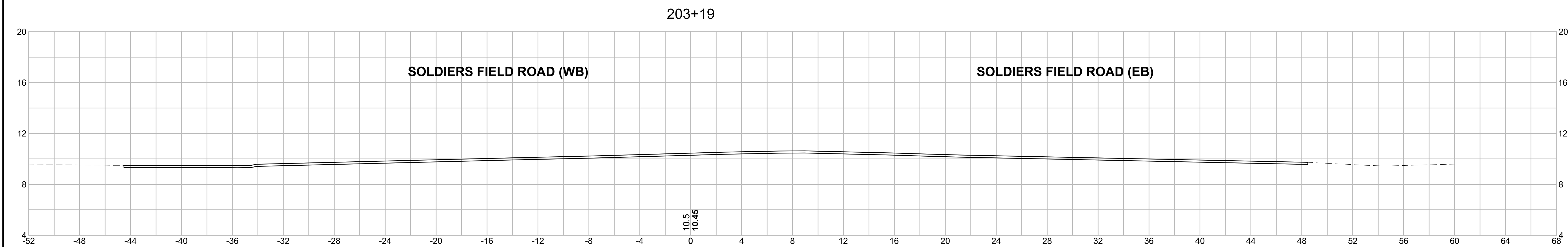
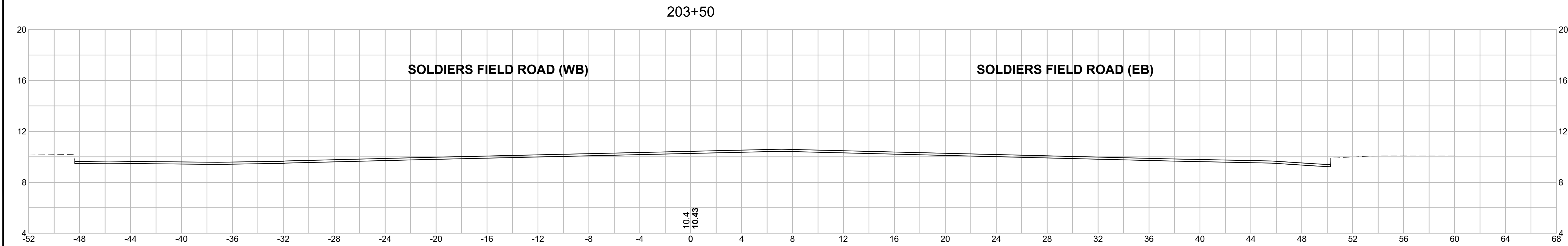
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DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS
SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

DESIGNER: AL
CHECKED: SHK
DRAWN: AL
CHECKED: SHK

CROSS SECTIONS
CONT. P24-3552-C2A
ACC. ---
SCALE: 1" = 4'
DATE: MAY, 2023

SHEET NO.
CS-02
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REV.	DATE	DESCRIPTION	BY

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TRAFFIC SIGNAL IMPROVEMENTS
SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

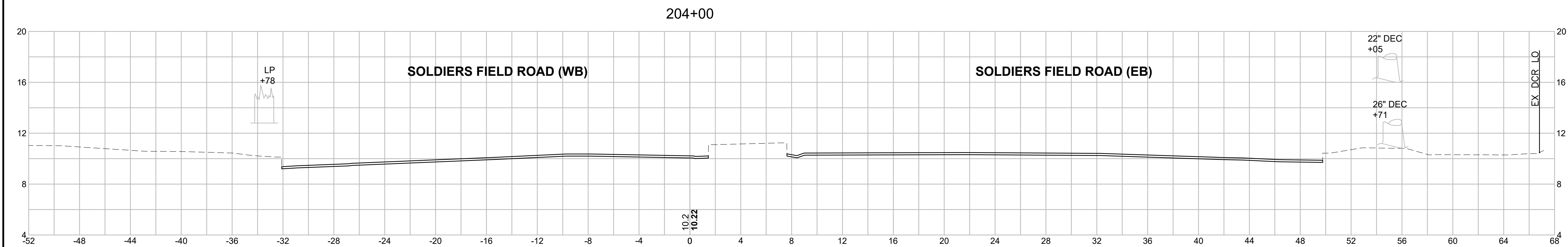
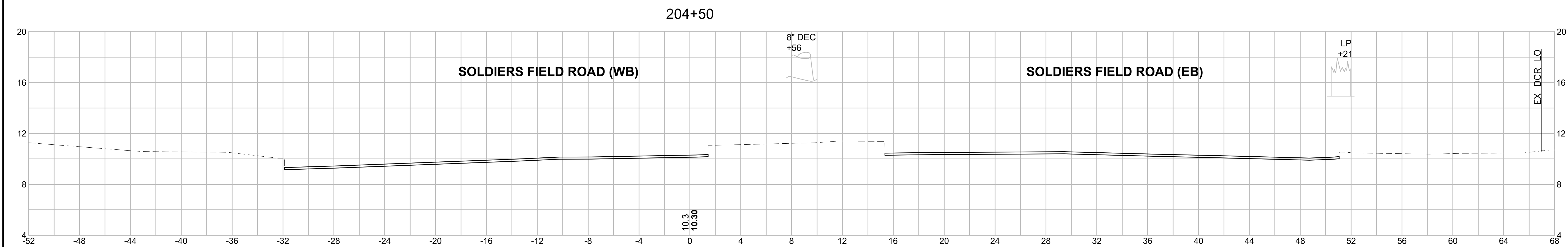
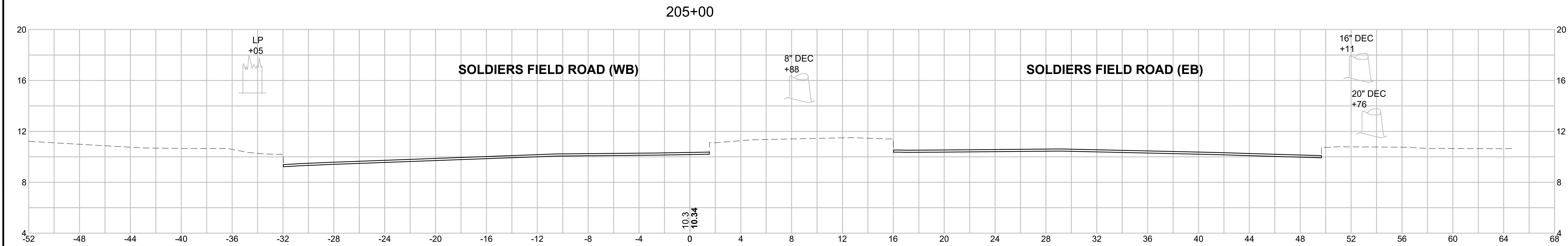
CROSS SECTIONS

DESIGNER: AL
CHECKED: SHK
DRAWN: AL
CHECKED: SHK

CONT: P24-3552-C2A
ACC. ---

SCALE: 1" = 4'
DATE: MAY, 2023

SHEET NO.
CS-03
34 OF 37



REV.	DATE	DESCRIPTION	BY

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TRAFFIC SIGNAL IMPROVEMENTS
SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

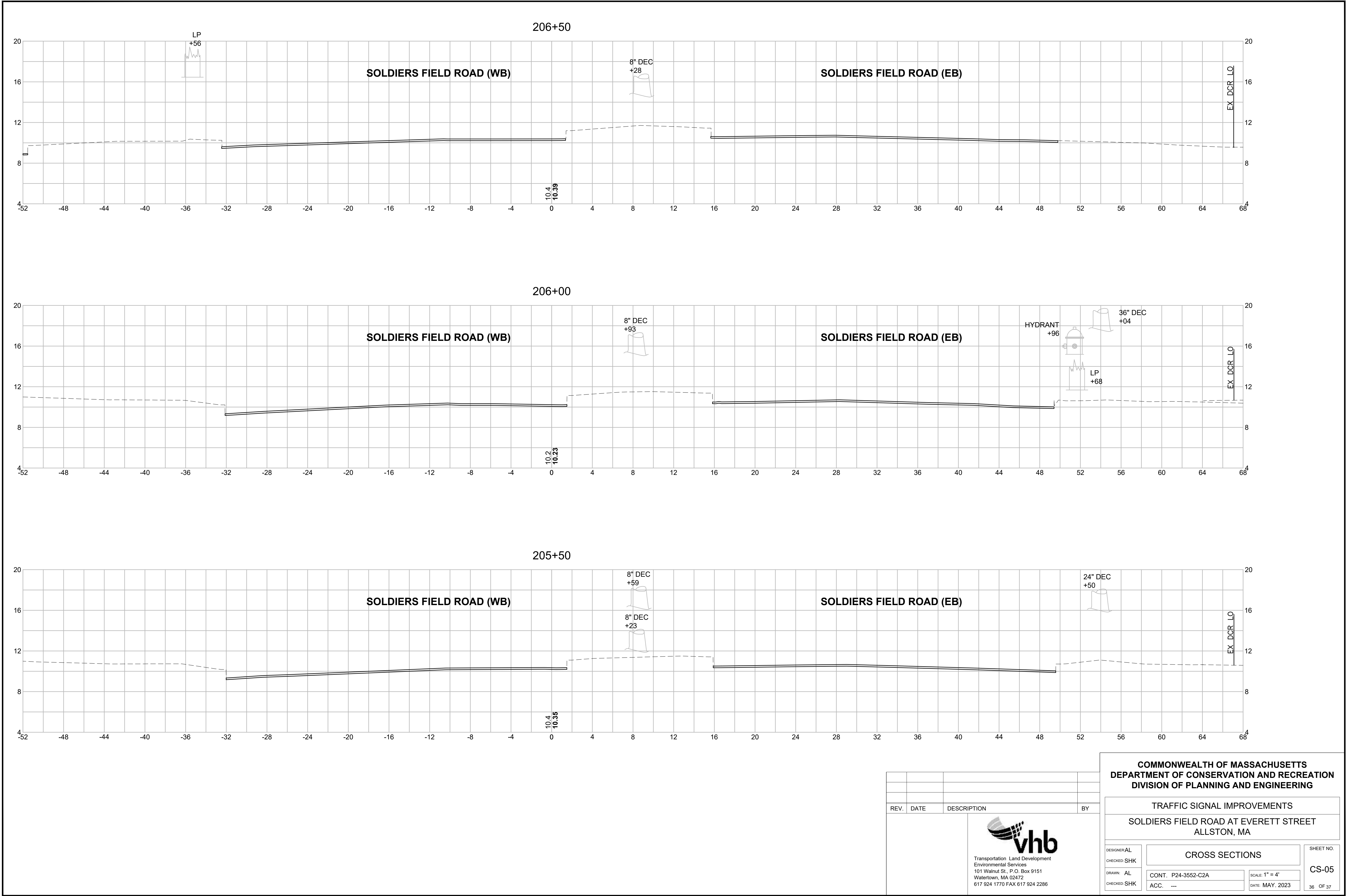
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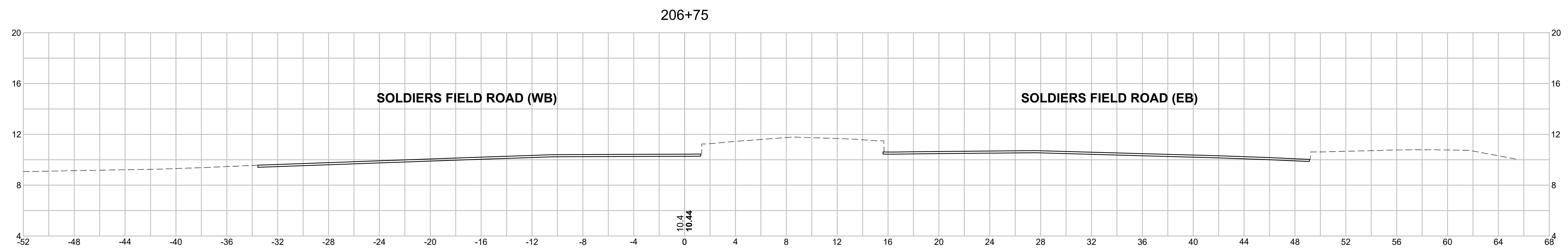
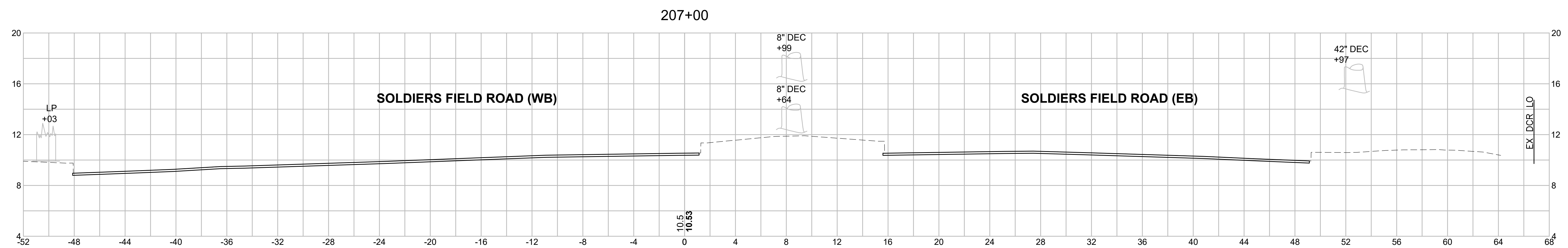
CROSS SECTIONS

CONT. P24-3552-C2A
ACC. ---

SCALE: 1" = 4'
DATE: MAY, 2023

SHEET NO.
CS-04
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REV.	DATE	DESCRIPTION	BY
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COMMONWEALTH OF MASSACHUSETTS
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DIVISION OF PLANNING AND ENGINEERING

TRAFFIC SIGNAL IMPROVEMENTS

SOLDIERS FIELD ROAD AT EVERETT STREET
ALLSTON, MA

DESIGNER:AL
CHECKED:SHK
DRAWN: AL
CHECKED:SHK

CROSS SECTIONS

SHEET NO.

CS-06

CONT. P24-3552-C2A

SCALE: 1" = 4'

ACG ---

DATE: MAY. 2023

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