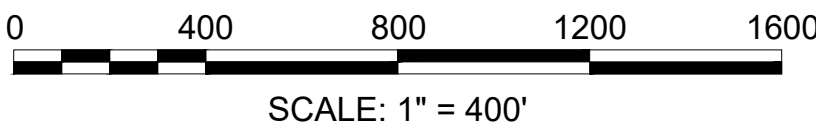
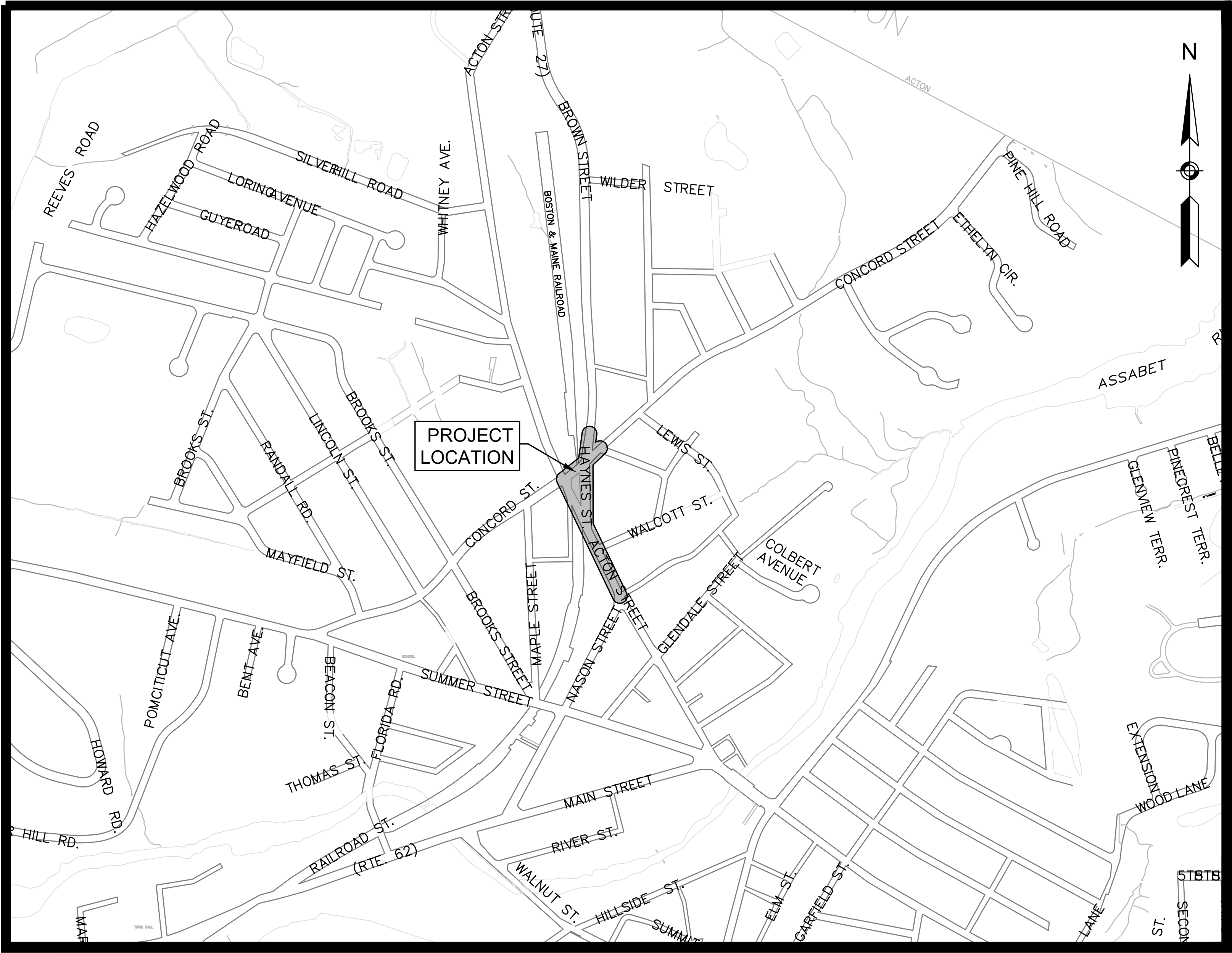


MAYNARD
CONCORD ST AT ROUTE 27
TITLE SHEET & INDEX
SHEET 01 OF 21

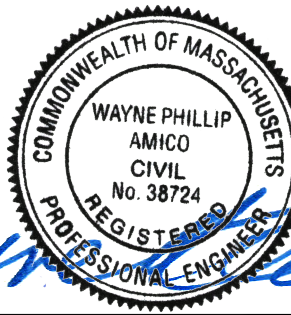
EXHIBIT 7

<h1 style="text-align: center;">INDEX</h1>	
<u>SHEET NO.</u>	<u>DESCRIPTION</u>
01	TITLE SHEET & INDEX
02 - 03	LEGEND & GENERAL NOTES
04 - 05	CONSTRUCTION PLANS
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19 - 21	PEDESTRIAN CURB RAMP DETAILS




Digitally Signed by
Wayne P. Amico, PE
February 12, 2024

4/18/2024	PCR/CURB REVISIONS. PAGES 1,4,5,7,19, & 20	2
3/12/2024	BIDDING QUESTIONS. PAGES 1,5,9,12, & 16	1
	DESCRIPTION	REV #



Wayne Phillip Amico

ENGINEER DATE



vhb

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 617.924.1770 FAX 617.924.2286

DESIGNED BY GPM	APPROVED BY -	SHEET 1	OF 21
DRAWN BY GPM	DFTG CHECKED BY	VHB CAD FILE NAME: 1229364 - COV.dwg	
CHECKED BY WPA	DATE January 10, 2024	JOB NO. 12293.00	

ABBREVIATIONS

AADT	ANNUAL AVERAGE DAILY TRAFFIC
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
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	STEADY DON'T WALK - PORTLAND ORANGE
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
NIC	NOT IN CONTRACT
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PSB	PLANTABLE SOIL BORROW
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY

ABBREVIATIONS (cont.)

R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WCR	WHEEL CHAIR RAMP
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

TRAFFIC SIGNAL ABBREVIATIONS


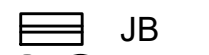









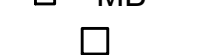

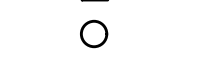













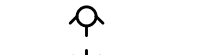















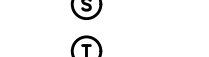











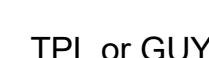

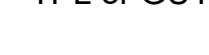





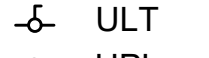









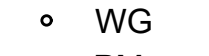





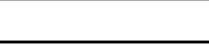

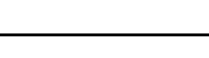

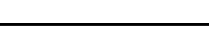

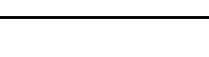

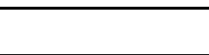

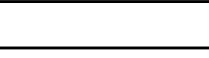

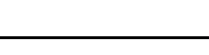



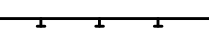

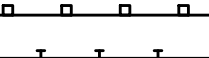

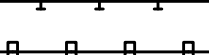

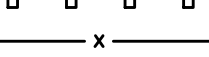

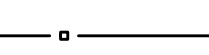

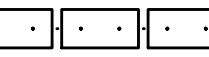



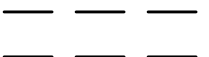

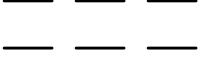








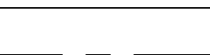



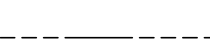

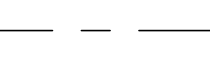

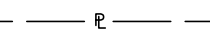

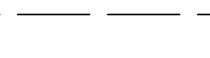
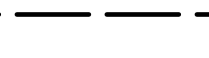






















CAB	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY UPRAISED HAND
FDW	FLASHING UPRAISED HAND
FR	FLASHING CIRCULAR RED
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FY	FLASHING CIRCULAR YELLOW
FYL	FLASHING YELLOW LEFT ARROW
FYR	FLASHING YELLOW RIGHT ARROW
G	STEADY CIRCULAR GREEN
GL	STEADY 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
OL	OVERLAP
PED	PEDESTRIAN
PTZ	PAN, TILT, ZOOM
R	STEADY CIRCULAR RED
RL	STEADY RED LEFT ARROW
RR	STEADY RED RIGHT ARROW
TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALKING PERSON
Y	STEADY CIRCULAR YELLOW
YL	STEADY YELLOW LEFT ARROW

MAYNARD
CONCORD ST AT ROUTE 27
LEGEND & GENERAL NOTES
SHEET 02 OF 21










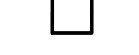













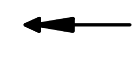

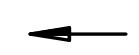





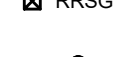



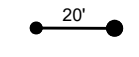



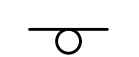





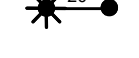

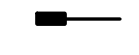




GENERAL NOTES:

- EXISTING CONDITIONS AND TOPOGRAPHICAL SURVEY PROVIDED BY THOMAS LAND SURVEYORS & ENGINEERING CONSULTANTS, INC., 2006, AN AERIAL MAPPING SURVEY BASE PREPARED BY SANBORN MAP COMPANY INC. 2010, AND SUPPLEMENTED WITH RECORD INFORMATION AND GROUND SURVEY BY VHB.
- 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 (NAV88).
- 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 ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE AND SEWER STRUCTURES AS NECESSARY FOR CHANGES IN GRADE, AND RESET ALL WATER AND DRAINAGE FRAMES, GRATES AND BOXES TO THE PROPOSED FINISH SURFACE GRADE. REQUIRED NEW MASONRY SHALL BE CLAY BRICK.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
- TREES AND SHRUBS WITHIN THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON APPROVAL OF THE ENGINEER.
- 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).
- JOINTS BETWEEN NEW ASPHALT CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH HMA JOINT ADHESIVE IN ACCORDANCE WITH SUBSECTION 450 OF THE MASSDOT STANDARD SPECIFICATIONS.
- AFTER MILLING OPERATIONS AND PRIOR TO PAVING THE SUPERPAVE INTERMEDIATE OR SURFACES COURSES THE ENGINEER SHALL EVALUATE THE MILLED SURFACE AND SHALL APPLY THE APPROPRIATE REPAIR METHOD IF REQUIRED.
- EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- IF SUITABLE, EXISTING GRANITE CURB & EDGING SHALL BE RE-USED IN THE PROPOSED WORK, EXCEPT CURVED STONES OF A DIFFERENT RADIUS THAN PROPOSED CURB.
- EXISTING STATE, COUNTY, CITY, AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND 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.










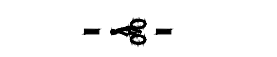





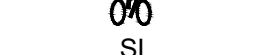

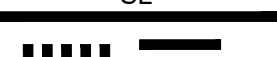



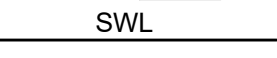

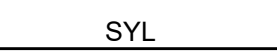



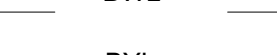

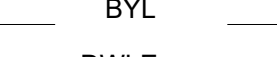

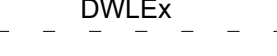









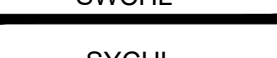
GENERAL SYMBOLS

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

TRAFFIC SYMBOLS

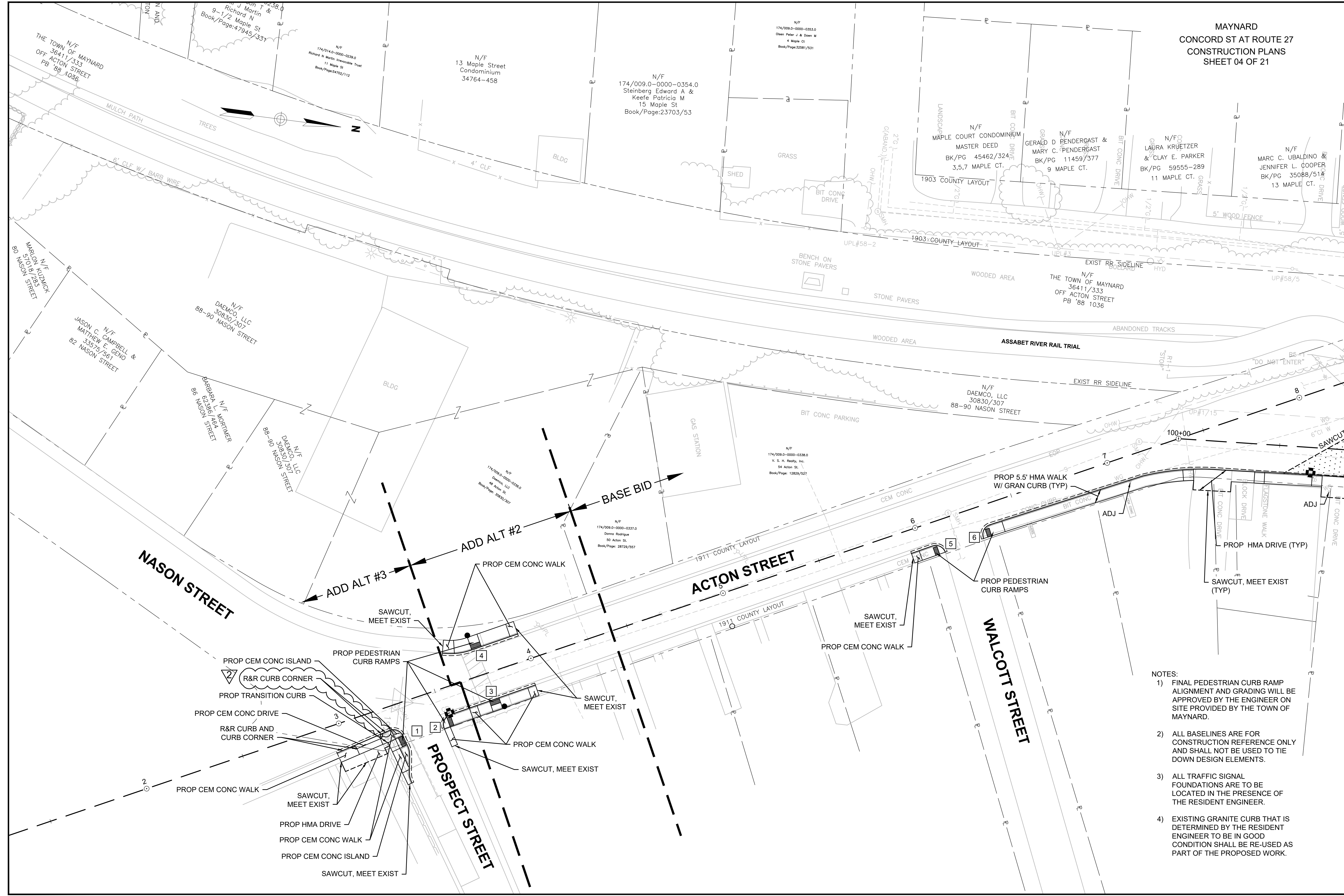
EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		VIDEO DETECTION CAMERA
		MICROWAVE DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		EMERGENCY PREEMPTION CONFIRMATION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

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE
		BICYCLE LANE WORD, SYMBOL AND/OR ARROW - WHITE
		BICYCLE DETECTOR - WHITE
		SHARED LANE - WHITE
		BICYCLE BOX - WHITE
		STOP LINE -WHITE, 12" WIDTH UNLESS OTHERWISE NOTED
		CROSSWALK-WHITE, 12" WIDTH UNLESS OTHERWISE NOTED
		SOLID WHITE LINE, 4" WIDTH
		SOLID YELLOW LINE, 4" WIDTH
		BROKEN WHITE LINE, 10' LINE W/30' SPACING, 4" WIDTH
		BROKEN YELLOW LINE, 10' LINE W/30' SPACING, 4" WIDTH
		DOTTED WHITE LINE, 2' LINE W/6' SPACING, 4" WIDTH
		DOTTED YELLOW LINE, 2' LINE W/6' SPACING, 4" WIDTH
		LONG DASHED WHITE LINE EXTENSION, 3' LINE W/9' SPACING, 4" WIDTH
		DOUBLE YELLOW LINE, 4" WIDTH
		SOLID WHITE CHANNELIZATION LINE, 12" WIDTH UNLESS OTHERWISE NOTED
		SOLID YELLOW CHANNELIZATION LINE, 12" WIDTH UNLESS OTHERWISE NOTED
		SLOTTED PAVEMENT MARKER ONE-WAY WHITE
		SLOTTED PAVEMENT MARKER TWO-WAY WHITE/RED
		SLOTTED PAVEMENT MARKER TWO-WAY YELLOW

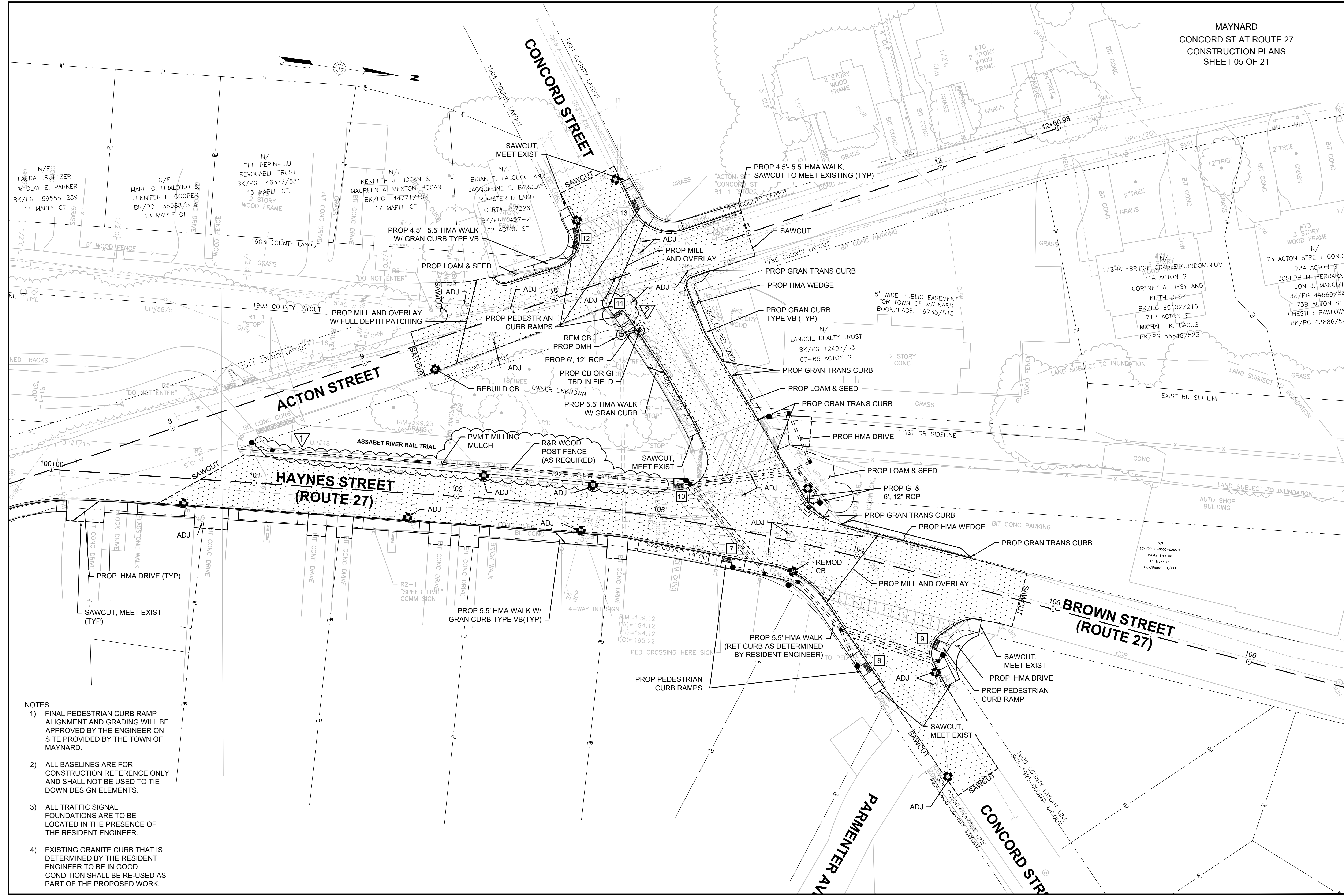
MAYNARD
CONCORD ST AT ROUTE 27
LEGEND & GENERAL NOTES
SHEET 03 OF 21

MAYNARD
CONCORD ST AT ROUTE 27
CONSTRUCTION PLANS
SHEET 04 OF 21



- NOTES:
- 1) FINAL PEDESTRIAN CURB RAMP ALIGNMENT AND GRADING WILL BE APPROVED BY THE ENGINEER ON SITE PROVIDED BY THE TOWN OF MAYNARD.
 - 2) ALL BASELINES ARE FOR CONSTRUCTION REFERENCE ONLY AND SHALL NOT BE USED TO TIE DOWN DESIGN ELEMENTS.
 - 3) ALL TRAFFIC SIGNAL FOUNDATIONS ARE TO BE LOCATED IN THE PRESENCE OF THE RESIDENT ENGINEER.
 - 4) EXISTING GRANITE CURB THAT IS DETERMINED BY THE RESIDENT ENGINEER TO BE IN GOOD CONDITION SHALL BE RE-USED AS PART OF THE PROPOSED WORK.

MAYNARD
CONCORD ST AT ROUTE 27
CONSTRUCTION PLANS
SHEET 05 OF 21



- NOTES:
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**MAYNARD
CONCORD ST AT ROUTE 27
ALIGNMENT PLANS
SHEET 06 OF 21**

NASON STREET
ACTON STREET
WALCOTT STREET
PROSPECT STREET

BASE BID
ADD ALT #2
ADD ALT #3

FOLLOW EX CURBLINE (TYP)
R=5.00'
R=10.00'

1911 COUNTY LAYOUT
1903 COUNTY LAYOUT

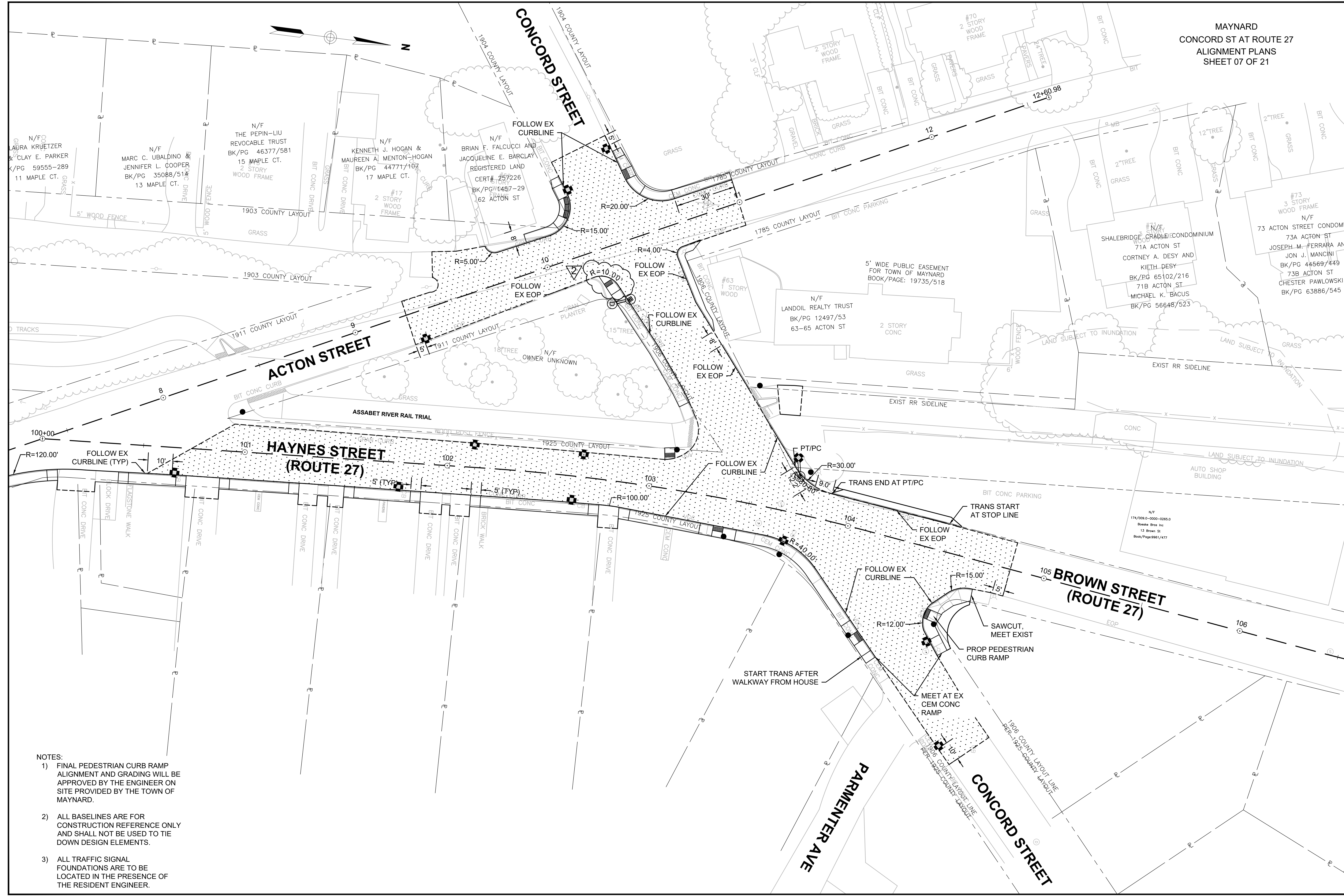
ASSABET RIVER RAIL TRIAL
EXIST RR SIDELINE
WOODED AREA
STONE PAVERS
BENCH ON STONE PAVERS
GRASS
SHED
BIT CONC DRIVE
LANDSCAPE
MAPLE COURT CONDOMINIUM MASTER DEED BK/Pg 45462/324 3,5,7 MAPLE CT.
GERALD D PENDERGAST & MARY C PENDERGAST BK/Pg 11459/377 9 MAPLE CT.
LAURA KRUEZER & CLAY E PARKER BK/Pg 59555-289 11 MAPLE CT.
MARC C UBALDINO & JENNIFER L COOPER BK/Pg 35088/514 13 MAPLE CT.

THE TOWN OF MAYNARD 36411/333 OFF ACTON STREET PB '88 1036
DAEMCO, LLC 30830/307 88-90 NASON STREET
JASON C CAMPBELL & MATTHEW E GENO 33575/591 82 NASON STREET
BARBARA L WORTIMER 63366/464 88 NASON STREET
DAEMCO, LLC 30830/307 88-90 NASON STREET
V. S. H. Realty, Inc. 54 Acton St. Book/Page: 12829/527
Donna Rodriguez 50 Acton St. Book/Page: 18729/557
Richard N Martin Irrevocable Trust 11 Maple St. Book/Page: 34702/112
Steinberg Edward A & Keefe Patricia M 15 Maple St. Book/Page: 23703/53
Olsen Peter J & Dawn M 4 Maple Ct. Book/Page: 32581/551

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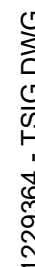
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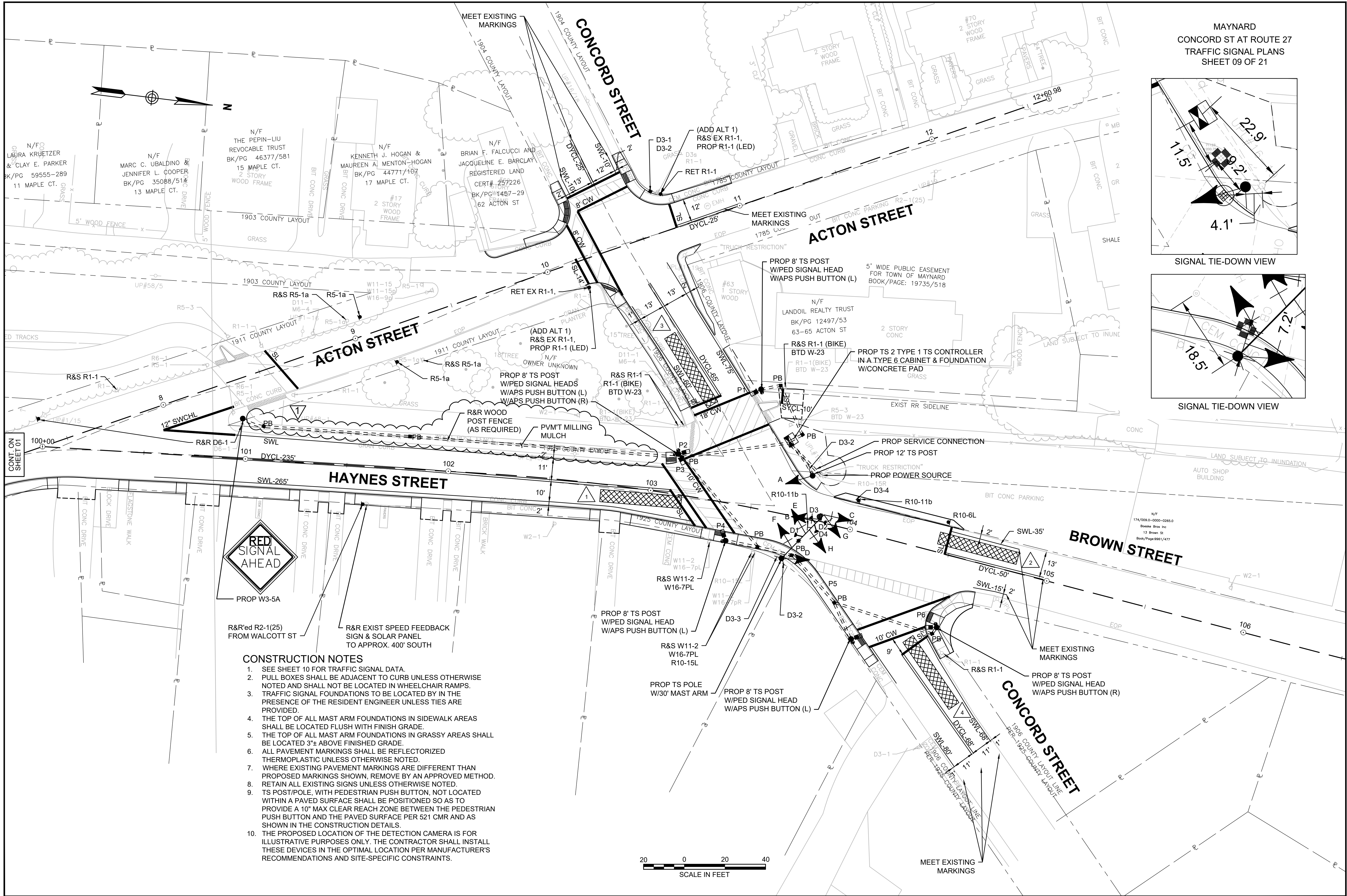
MAYNARD
CONCORD ST AT ROUTE 27
ALIGNMENT PLANS
SHEET 07 OF 21



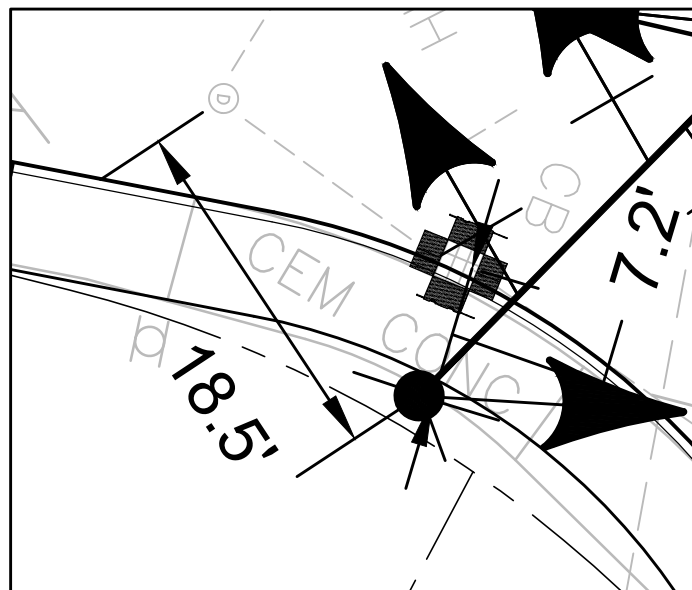
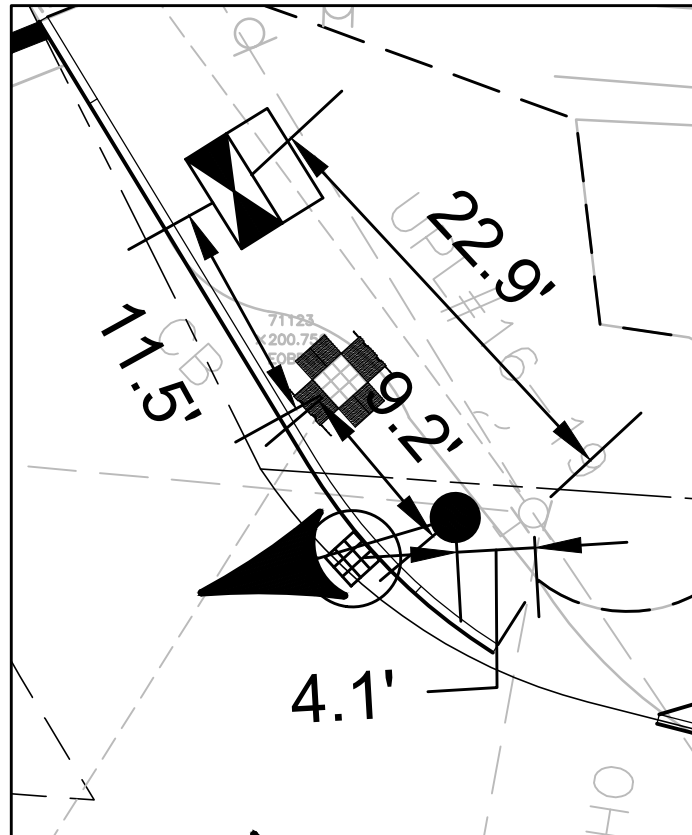
- NOTES:
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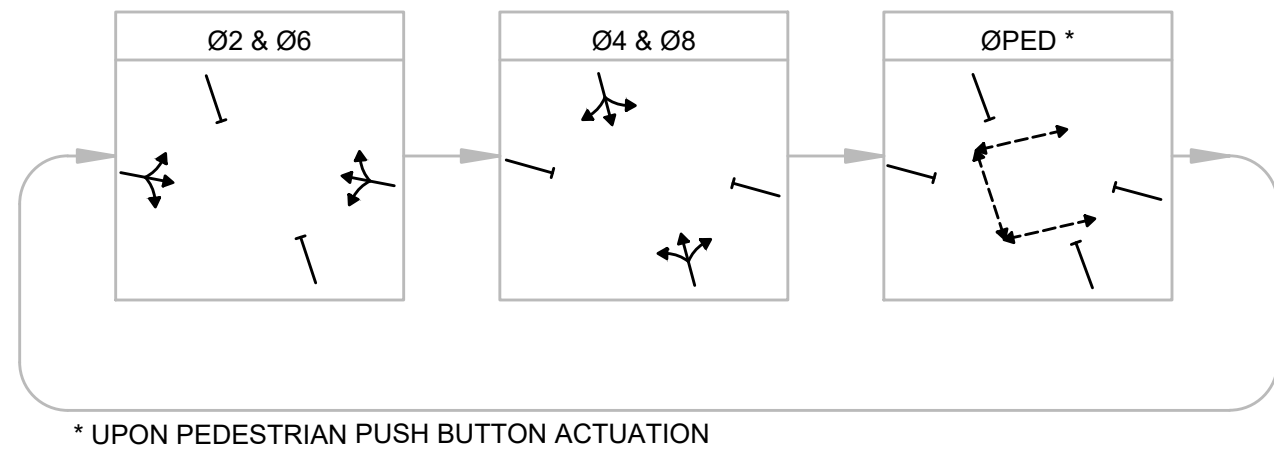


MAYNARD
CONCORD ST AT ROUTE 27
TRAFFIC SIGNAL PLANS
SHEET 09 OF 21



1. 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.
2. THE RIGHT OF WAY MAY BE ASSIGNED TO ANY PHASE OR ANY COMBINATION OF NON-CONFLICTING PHASES.
3. IF CALLS EXIST ON ALL PHASES, THE ASSIGNMENT OF RIGHT OF WAY SHALL BE IN ACCORDANCE WITH THE PREFERENTIAL PHASE SEQUENCE.
4. 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.

1. AUTOMATIC FLASHING OPERATION PER 2009 M.U.T.C.D., AS AMENDED.
2. * UPMON PEDESTRIAN PUSH BUTTON ACTUATION
3. PERM = PERMISSIVE
4. 04 & 08 DUAL ENTRY
5. MAXIMUM 1 = NORMAL OPERATION
6. MAXIMUM 2 = 4 PM TO 6 PM MON-FRI
7. DYNAMIC (MAX) STEP SHALL BE FIVE SECONDS.
8. DYNAMIC (MAX) SHALL BE USED FOR ALL TIMES OF THE DAY.
9. PERM AND GO OPERATION FOR 24 HOURS A DAY, FLASHING OPERATION FOR EMERGENCY ONLY.
10. DURING PEDESTRIAN INTERVAL, FWD THROUGH YELLOW OPERATION SHALL NOT BE IN EFFECT.
11. "RED" ON ADVANCE WARNING SIGN (W3-3A) FLASHES, STEADY BURNS RED IN ALL INTERVALS EXCEPT WHEN PHASE 2 GREEN IS ON.



1. ALL SIGNAL HEADS SHALL BE RIGID MOUNTED.
2. SIGNAL HEADS B,C,E,F,G,H SHALL BE EQUIPPED WITH 5* NON- LOUVERED BACKPLATES. ALL BACKPLATES SHALL CONTAIN A 3" WIDE YELLOW REFLECTIVE BORDER.
3. ALL SIGNAL HEADS SHALL BE EQUIPPED WITH TUNNEL VISORS.
4. ALL SIGNAL DISPLAYS SHALL BE EQUIPPED WITH L.E.D. MODULES.

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

1. EMERGENCY VEHICLE PRE-EMPTION SIGNALS SHALL BE OPTICALLY TRANSMITTED BY OPTICAL EMITTERS MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT EACH INTERSECTION.

2. PRE-EMPTION SIGNALS SHALL BE SERVICED ON A PRIORITY BASIS WITH DETECTORS D1, D2, D3 OR D4 ASSIGNED DESCENDING PRIORITIES AS FOLLOWS: (D1 HIGHEST AND D4 LOWEST)



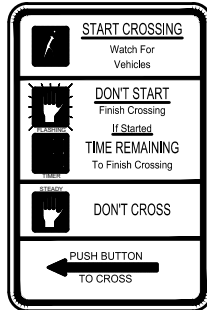
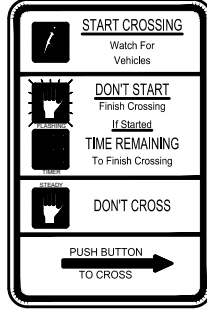








3. IN RESPONSE TO A PRE-EMPTION SIGNAL RECEIVED AT AN INTERSECTION BY OPTICAL DETECTOR D1 (OR D2, D3, D4) THE CONTROLLER SHALL HOLD OR ADVANCE TO AND HOLD IN EMERGENCY VEHICLE PRE-EMPTION PHASE #1 (OR #2, #3, #4) GREEN FOR A MINIMUM OF TEN (10) SECONDS OR UNTIL PRE-EMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME PRE-EMPTION PHASE CLEARANCES FOR THE ASSOCIATED PHASE(S) AS SHOWN IN THE SEQUENCE AND TIMING CHART AND SERVICE SUBSEQUENT EMERGENCY VEHICLE PRE-EMPTION PHASES AS NECESSARY.

4. MINIMUM GREEN, NORMAL VEHICLE CLEARANCE, AND PEDESTRIAN CLEARANCE SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PRE-EMPTION DEMAND.

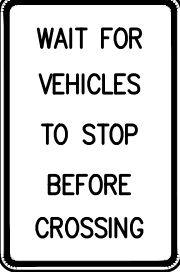




5. PRE-EMPTION STROBE SHALL BE ILLUMINATED WHENEVER ANY EMERGENCY VEHICLE PRE-EMPTION GREEN IS ACTIVE.

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

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 IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK- GROUND	LEGEND	BORDER			
R1-1 (LED)	30"	30"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			2	RED	WHITE	WHITE	P5-2	PAID UNDER ITEM 824.601	
R5-1a	36"	24"					2	RED	WHITE	WHITE	P5-2	6.00	12.00
R10-3e(L)	9"	15"					4	WHITE	WHITE/ BLACK/ ORANGE	BLACK	4 MTD ON TS POST	PAID UNDER ITEM 815.1	
R10-3e(R)	9"	15"					2	WHITE	WHITE/ BLACK ORANGE	BLACK	2 MTD ON TS POST	PAID UNDER ITEM 815.1	
R10-6L	24"	36"					1	WHITE	BLACK	BLACK	P5-1	6.00	6.00
R10-11b	24"	24"					1	WHITE	BLACK	BLACK	P5-1	4.00	4.00
	36"	36"					1	WHITE	BLACK	BLACK	1 MTD ON MAST ARM	9.00	9.00
R10-25	9"	12"					2	WHITE	BLACK	BLACK	2 MTD ON RRFB	PAID UNDER ITEM 824.211	
W3-5A	36"	36"					1	YELLOW	ORANGE LED	BLACK	1 MTD ON TS POST	PAID FOR UNDER ITEM 815.1	
W11-2(L)	30"	30"					2	FLUOR- ESCENT YELLOW GREEN	BLACK	BLACK	2 MTD ON TS POST	6.25	12.50
W11-2(R)	30"	30"					2	FLUOR- ESCENT YELLOW GREEN	BLACK	BLACK	2 MTD ON TS POST	6.25	12.50
W16-7p(L)	24"	12"					2	FLUOR- ESCENT YELLOW/ GREEN	BLACK	BLACK	2 MTD ON TS POST	2.00	4.00
W16-7p(R)	24"	12"					2	FLUOR- ESCENT YELLOW/ GREEN	BLACK	BLACK	2 MTD ON TS POST	2.00	4.00

TRAFFIC SIGN SUMMARY

IDENTIFI- CATION NUMBER	SIZE OF SIGN			TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK- GROUND	LEGEND	BORDER			
SP-1	9"	12"		1"C 1"C 1"C 1"C	1.5" 1" 1" 1.5"	N/A	2	YELLOW	BLACK	BLACK	2 MTD ON RRFB	0.75	1.50
MA-D3-1	48"	12"		6"4"D	3" 3"	N/A	1	GREEN	WHITE	WHITE	P5-1	INCLUDED UNDER ITEM 874.01	
MA-D3-2	60"	12"		6"4"D	3" 3"	N/A	3	GREEN	WHITE	WHITE	1 MTD W/OTHER 2 MTD ON TS POST	INCLUDED UNDER ITEM 874.01	
MA-D3-3	54"	12"		6"4"D	3" 3"	N/A	1	GREEN	WHITE	WHITE	1 MTD ON TS POST	INCLUDED UNDER ITEM 874.01	
MA-D3-4	48"	12"		6"4"D	3" 3"	N/A	1	GREEN	WHITE	WHITE	1 MTD ON TS POST	INCLUDED UNDER ITEM 874.01	

NOTES:

- RETROREFLECTIVE SHEETING CONFORMING TO SECTION M9.30.0 OF THE 2023 MASSDOT STANDARD SPECIFICATIONS SHALL BE USED FOR ALL SIGNS.
- SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION" AND 2012 SUPPLEMENT; THE 1990 MASSDPW STANDARD DRAWINGS FOR SIGNS AND SUPPORTS; THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR MOUNTING REQUIREMENTS; AND THE MASSDOT STANDARD SIGNS, LATEST EDITION.
- ALL SIGNS SHOWN GRAPHICALLY FOR INFORMATION ONLY. SIGN VENDOR SHALL FABRICATE ALL SIGNS IN ACCORDANCE WITH THE APPLICABLE STANDARDS.

GENERAL NOTES

- 1
- 3

NO WORK SHALL OCCUR WITHIN THE PUBLIC WAY THE DAY BEFORE, AFTER OR ON A STATE RECOGNIZED HOLIDAY 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

REFLECTORIZED CONES SHALL BE A MINIMUM OF 36 INCHES IN HEIGHT.
- 8

CONES MAY BE USED IN LIEU OF DRUMS OUTSIDE OF TAPER AREAS.
- 9

THE CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 48 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OR RESTRICTION OF ACCESS.
- 10

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.
- 11

CONTRACTOR SHALL STAGE WORK SUCH THAT A DROP-OFF OF NO MORE THAN 3" AT THE END OF EACH WORK DAY EXISTS WITHIN THE CLEAR ZONE AT ANY TIME AND ENSURE DROP-OFF IS MITIGATED WITHOUT BARRIER PER NOTE 10.
- 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
- 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

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.
- 20

W8-15 SIGNS SHALL BE INSTALLED IN ADVANCE (100' MIN) OF PAVEMENT MILLING AREAS OR AS REQUESTED BY THE ENGINEER.
- 21

CONTRACTOR SHALL SECURE WORK AREAS BY APPROPRIATE MEANS, TO PREVENT UNAUTHORIZED ACCESS AT ALL TIMES.

- 22

THERE IS NO DESIGNATED BICYCLE LANE ON THE ROADWAY WITHIN THE PROJECT LIMITS. BICYCLES ARE EXPECTED TO SHARE THE ROAD WITH GENERAL VEHICULAR TRAFFIC.
- 23

CONTRACTOR SHALL PROVIDE 5 PORTABLE CHANGE MESSAGE SIGN (PCMS) A MINIMUM OF 14 DAYS PRIOR TO AND POST START OF CONSTRUCTION.
- 24

CONTRACTOR SHALL NOT ALLOW PUBLIC ACCESS ON PORTIONS OF NEWLY BUILT SIDEWALK UNTIL ALL SIDEWALKS WITHIN THE PROJECT LIMITS ARE FULLY CONSTRUCTED AND ADAAG COMPLIANT OR AS DIRECTED BY THE ENGINEER.

LEGEND

	FLAGGER
	POLICE OFFICER
	TRAFFIC SIGNAL
	REFLECTORIZED DRUM
	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)
	TRAFFIC FLOW
	PEDESTRIAN ROUTE
	CONSTRUCTION FENCE
	TEMPORARY PEDESTRIAN BARRICADE
NTS	NOT TO SCALE
TTCP	TEMPORARY TRAFFIC CONTROL PLAN

ADVANCE SIGN SPACING

ROADWAY	DISTANCE BETWEEN SIGNS (FEET)		
	A	B	C
ACTON STREET, CONCORD STREET, BROWN STREET, HAYNES STREET	100	100	100

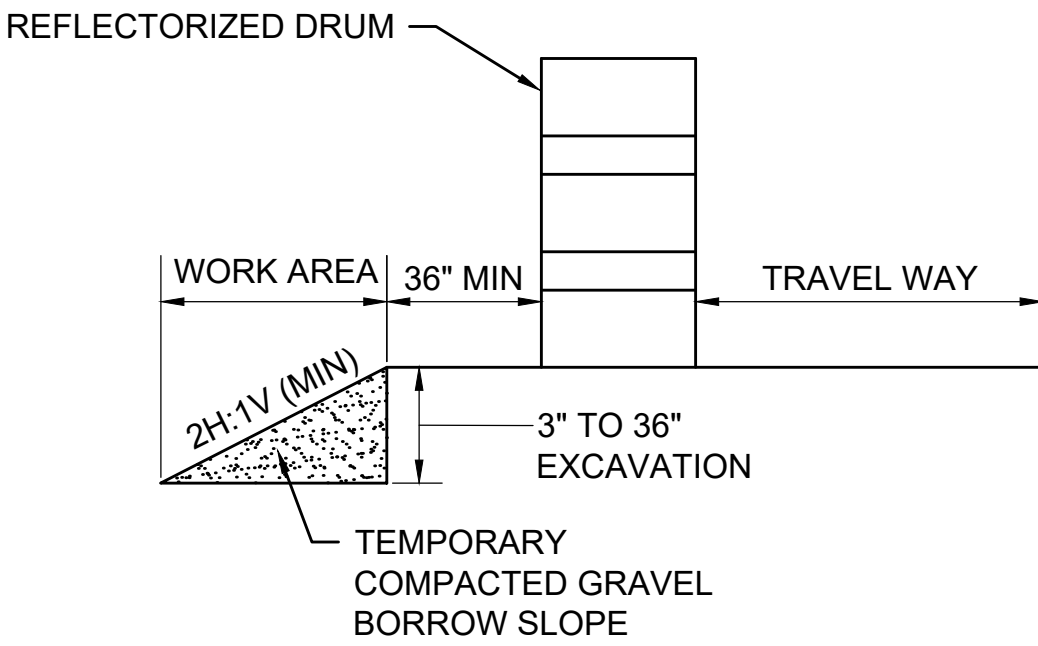
LANE TAPER LENGTH FORMULAS

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

BUFFER SPACING

SPEED (MPH)	DISTANCE (FEET)
15	80
20	115
25	155
30	200

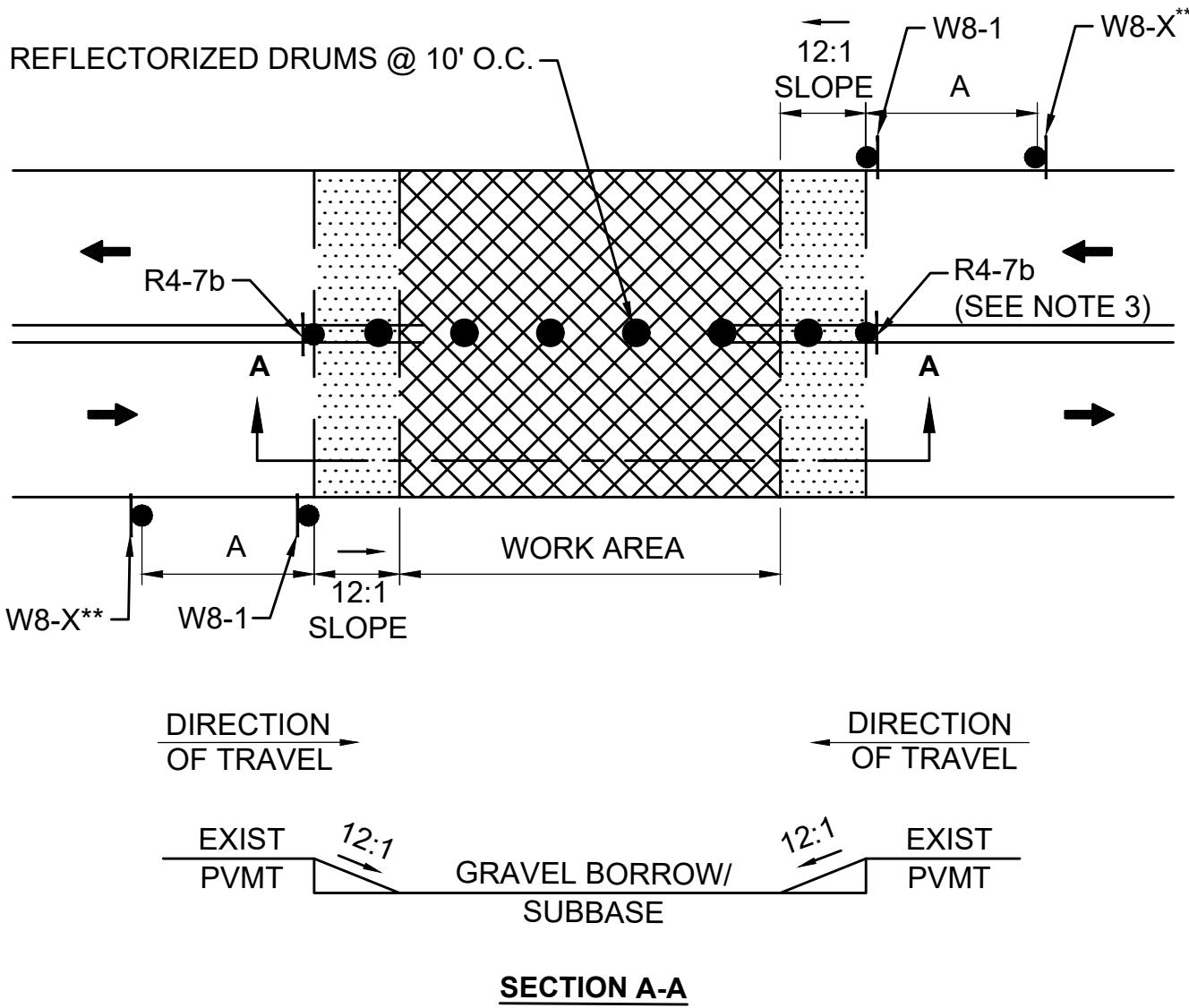
MAYNARD
CONCORD ST AT ROUTE 27
TEMPORARY TRAFFIC CONTROL PLANS
SHEET 12 OF 21
GENERAL NOTES & LEGEND



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

TYPICAL ROADWAY DROP-OFF PROTECTION

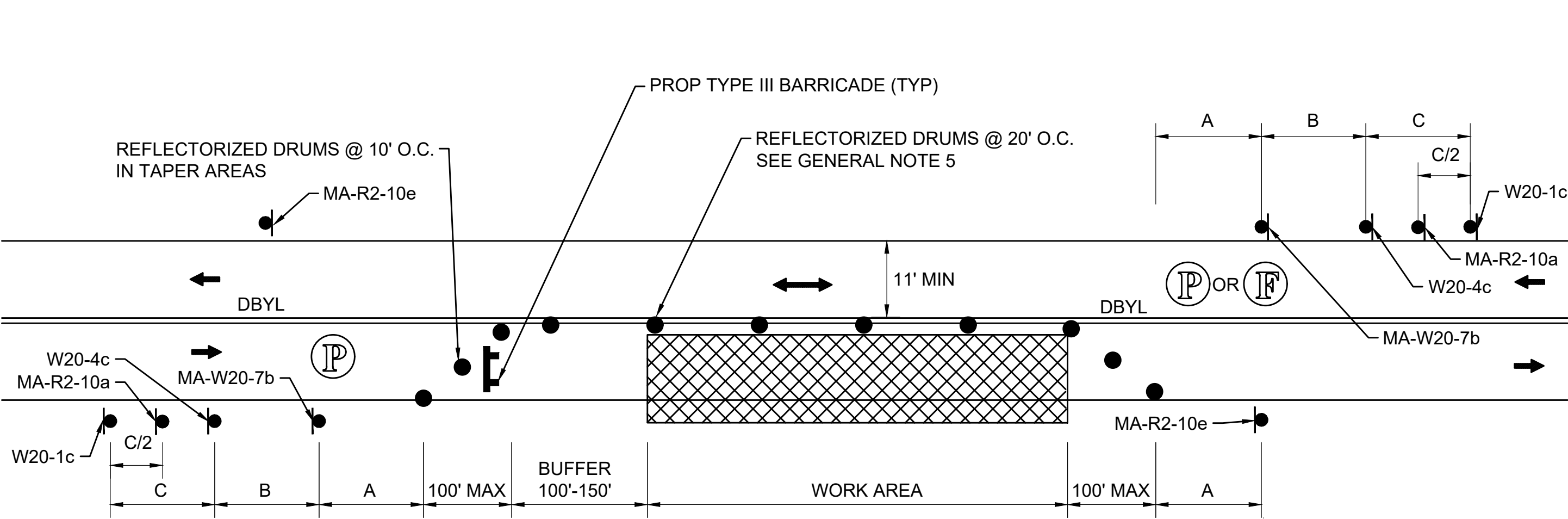
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- NOTES:
- SQUARE OFF THE FULL WIDTH OF THE ROADWAY AT THE END OF WORK DAY.
 - ** CONTRACTOR SHALL INSTALL W8-1 AT LIMIT OF EXCAVATION AND A W8-3, W8-8, W8-15, OR W8-24 SIGN, AS APPROPRIATE, ON ALL ROADWAYS IN ADVANCE OF THE TRANSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - R4-7b SIGNS AND DRUMS MAY BE OMITTED AT THE DISCRETION OF THE ENGINEER.

TEMPORARY PAVEMENT TRANSITION

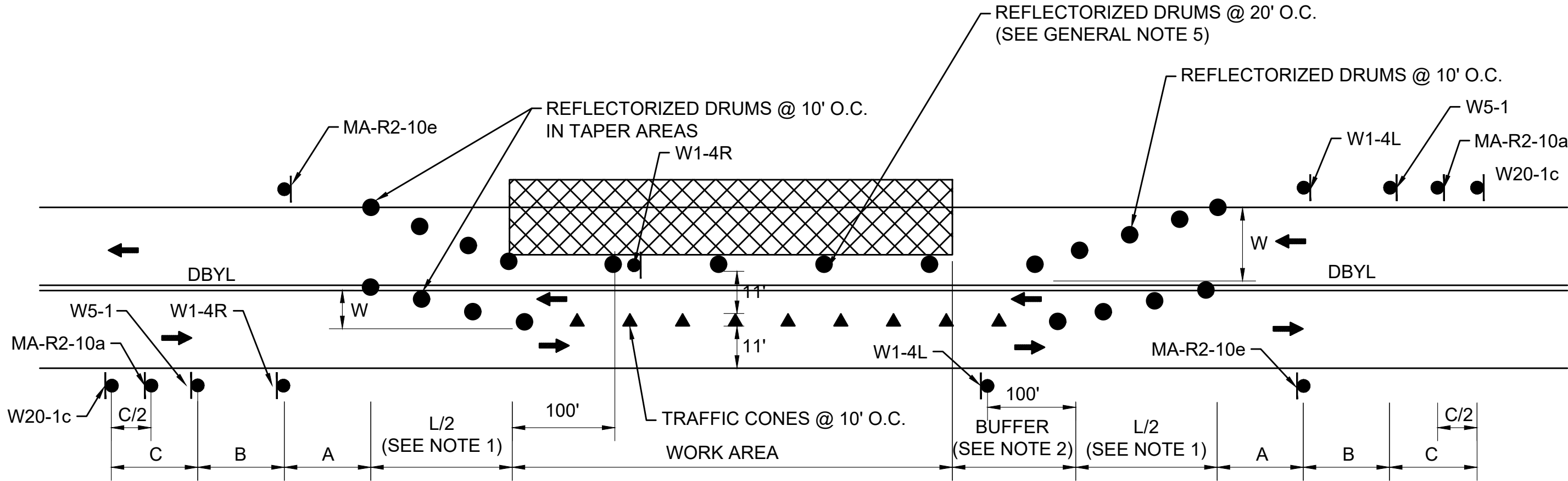
SCALE: NTS DWG: TTCP1g DATE: FEB 2022



- NOTES:
1. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.

TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC

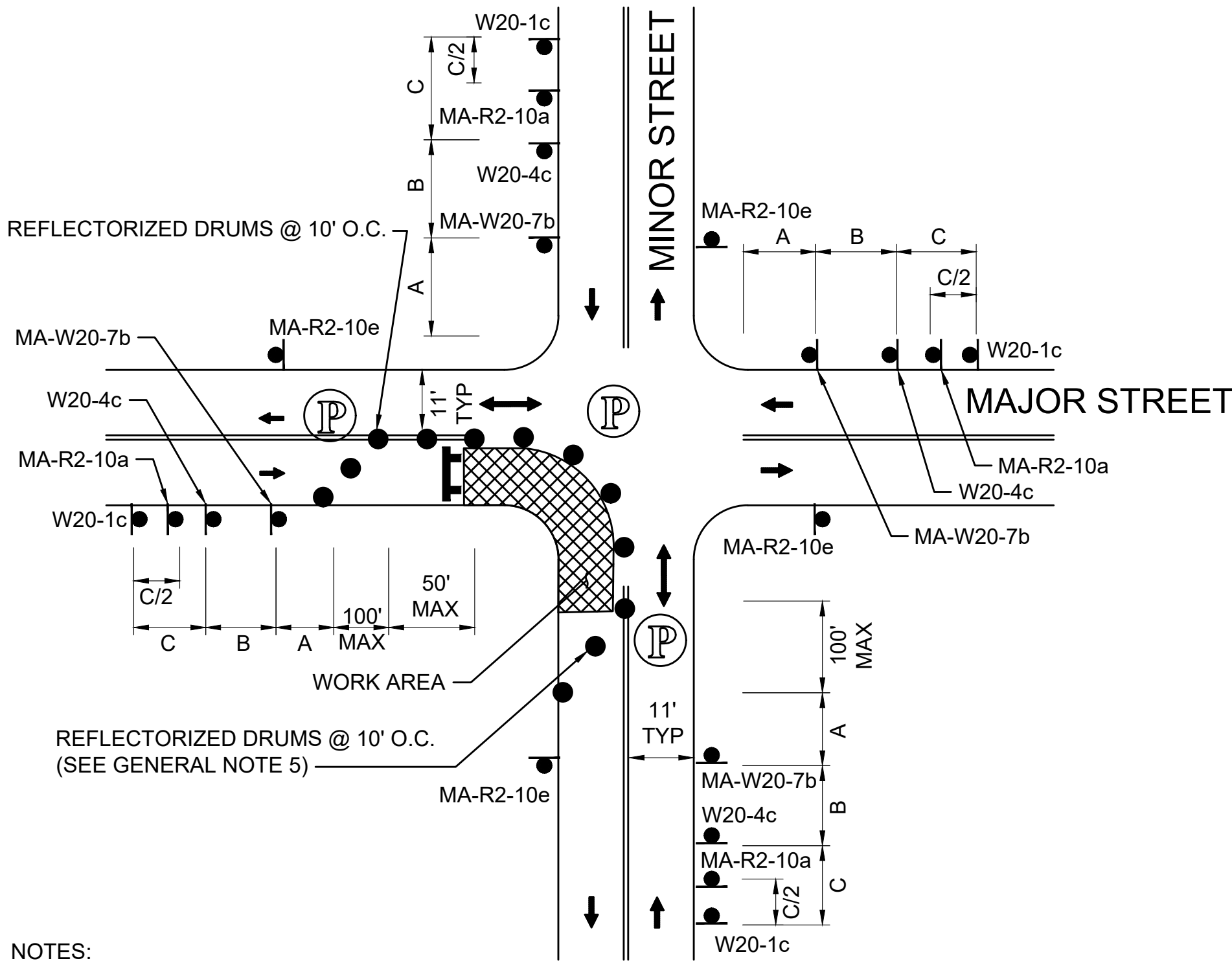
SCALE: NTS DWG: TTCP2b DATE: FEB 2022



- NOTES:
1. SEE TAPER LENGTH FORMULA ON TTCP GENERAL NOTES & LEGEND SHEET.
 2. SEE BUFFER SPACING CHART ON TTCP GENERAL NOTES & LEGEND SHEET.
 3. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.

TYPICAL TWO-WAY STREET LANE SHIFT

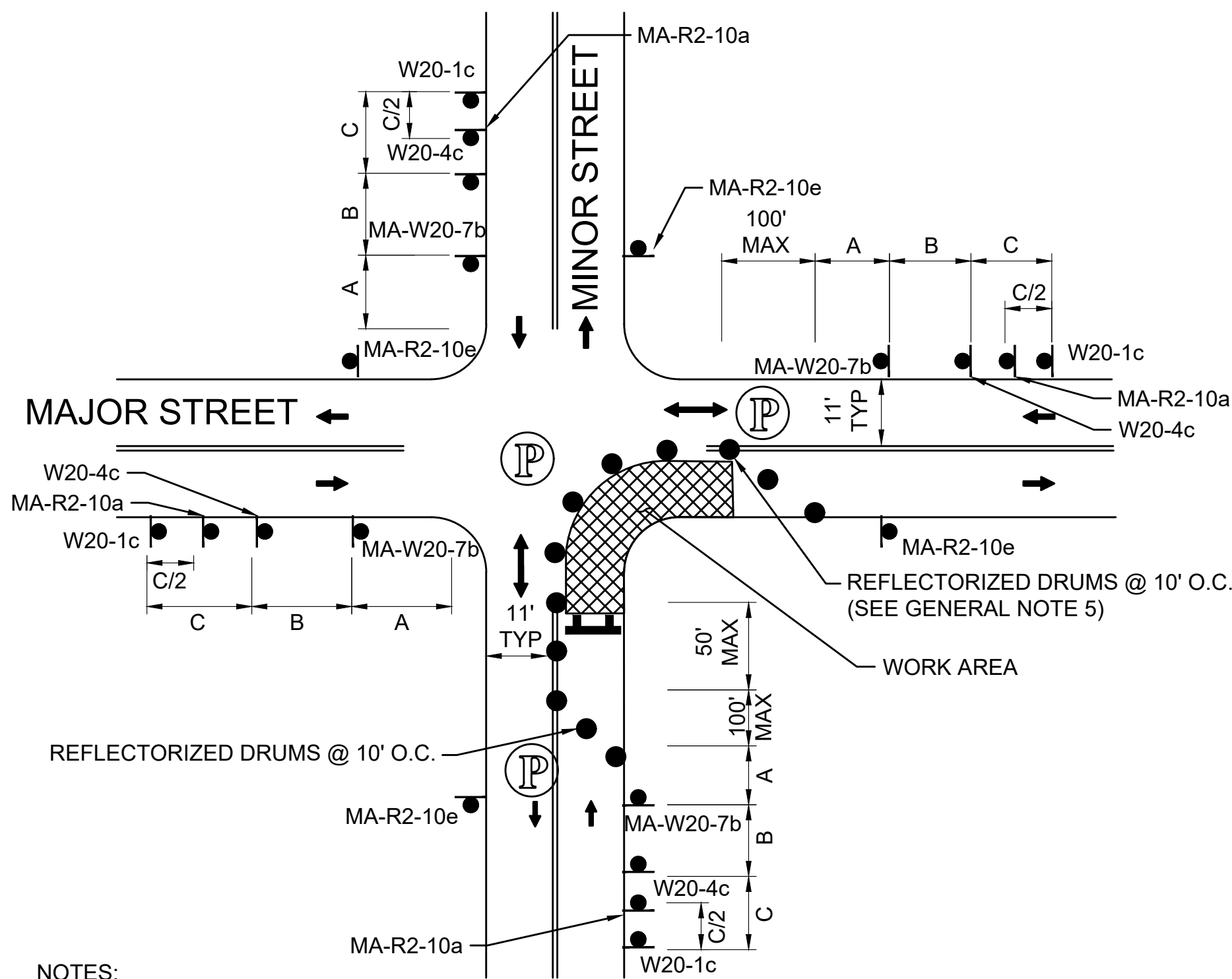
SCALE: NTS DWG: TTCP2a DATE: FEB 2022



- NOTES:
1. ADVANCE WARNING SIGN PLACEMENT TO BE ADJUSTED AS NECESSARY.
 2. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.

ONE LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS - NEAR SIDE

SCALE: NTS DWG: TTCP4d DATE: FEB 2022



- NOTES:
1. ADVANCE WARNING SIGN PLACEMENT TO BE ADJUSTED AS NECESSARY.
 2. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.

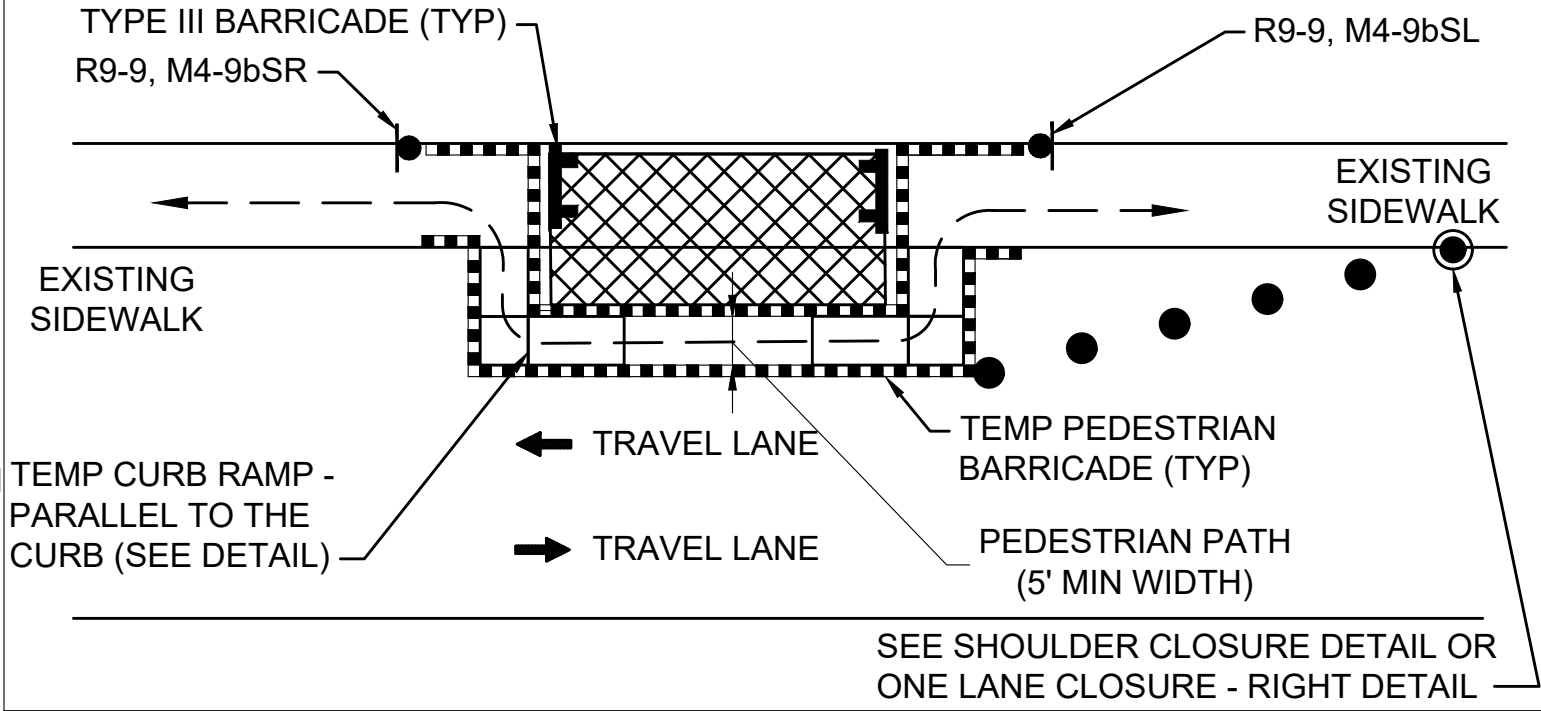
ONE LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS - FAR SIDE

SCALE: NTS DWG: TTCP4c DATE: FEB 2022

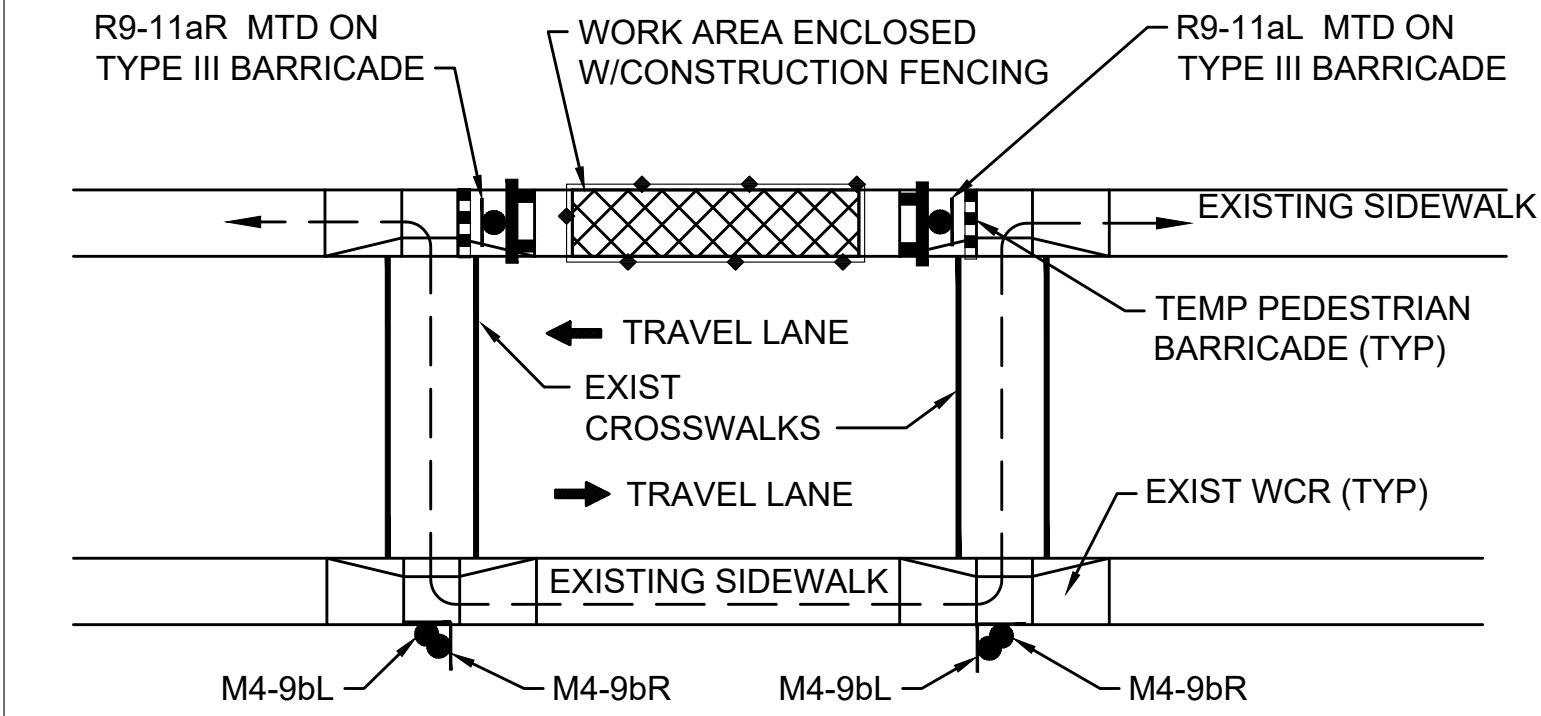
NOTES:

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. IF THE WORK ZONE DOES NOT PERMIT PEDESTRIANS TO TRAVEL ADJACENT TO IT AS SHOWN IN PEDESTRIAN BYPASS TYPE I, THE APPROPRIATE SIGNS SHALL BE INSTALLED TO CROSS PEDESTRIANS TO THE OPPOSITE SIDE OF THE STREET AT EXISTING CROSSWALKS AS SHOWN IN PEDESTRIAN BYPASS TYPE II, AND AS DIRECTED BY THE ENGINEER.
6. 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.
7. CONTRACTOR SHALL MAINTAIN AS WIDE OF A PEDESTRIAN ACCESS AS POSSIBLE AT ALL TIMES. EXCEPT WHERE NECESSARY, THE CONTRACTOR MAY TEMPORARILY REDUCE PEDESTRIAN PATHWAYS TO 4 FEET IN WIDTH (EXCLUDING CURB) FOR NO MORE THAN 200 LINEAR FEET AT A TIME IN ACCORDANCE WITH ALL STANDARDS. A 5' x 5' PASSING AREA SHALL BE PROVIDED IN INTERVALS NOT EXCEEDING 200 FEET.
8. TEMPORARY PEDESTRIAN CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MASSDOT, MAAB, AND ADAAG REQUIREMENTS.
9. TEMPORARY PEDESTRIAN BARRICADE SHALL BE PAID FOR UNDER ITEM 852.11 TEMPORARY PEDESTRIAN BARRICADE.
10. TEMPORARY PEDESTRIAN CURB RAMPS SHALL BE PAID FOR UNDER ITEM 852.12 TEMPORARY PEDESTRIAN CURB RAMP.

PEDESTRIAN BYPASS TYPE I



PEDESTRIAN BYPASS TYPE II



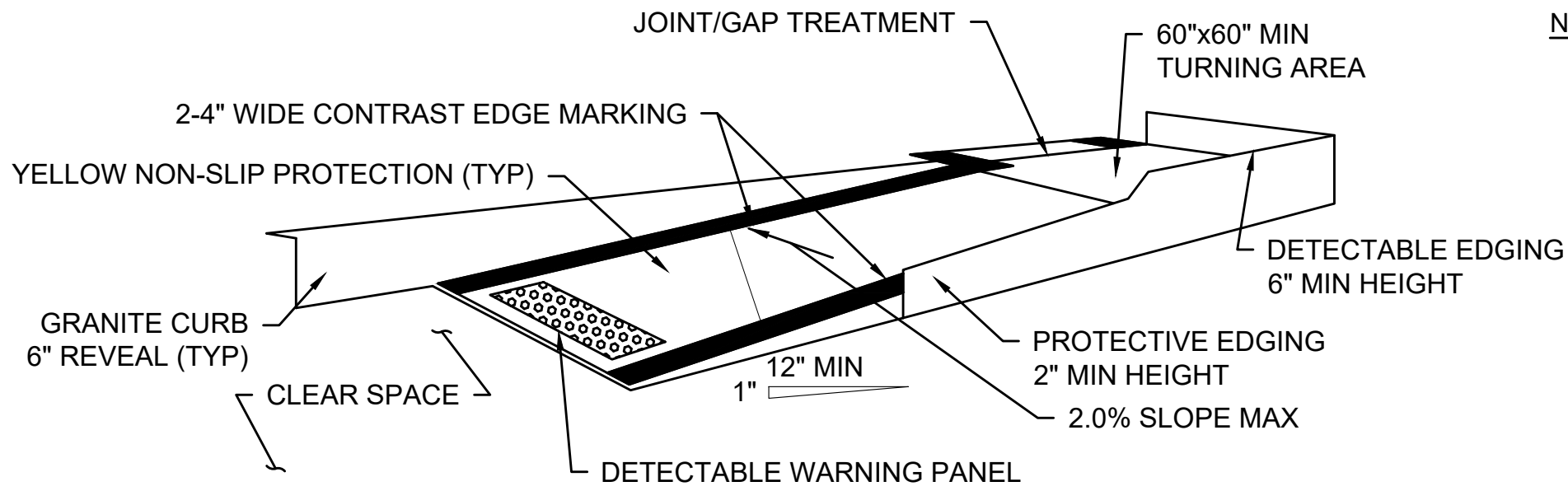
PEDESTRIAN BYPASS DETAIL

SCALE: NTS

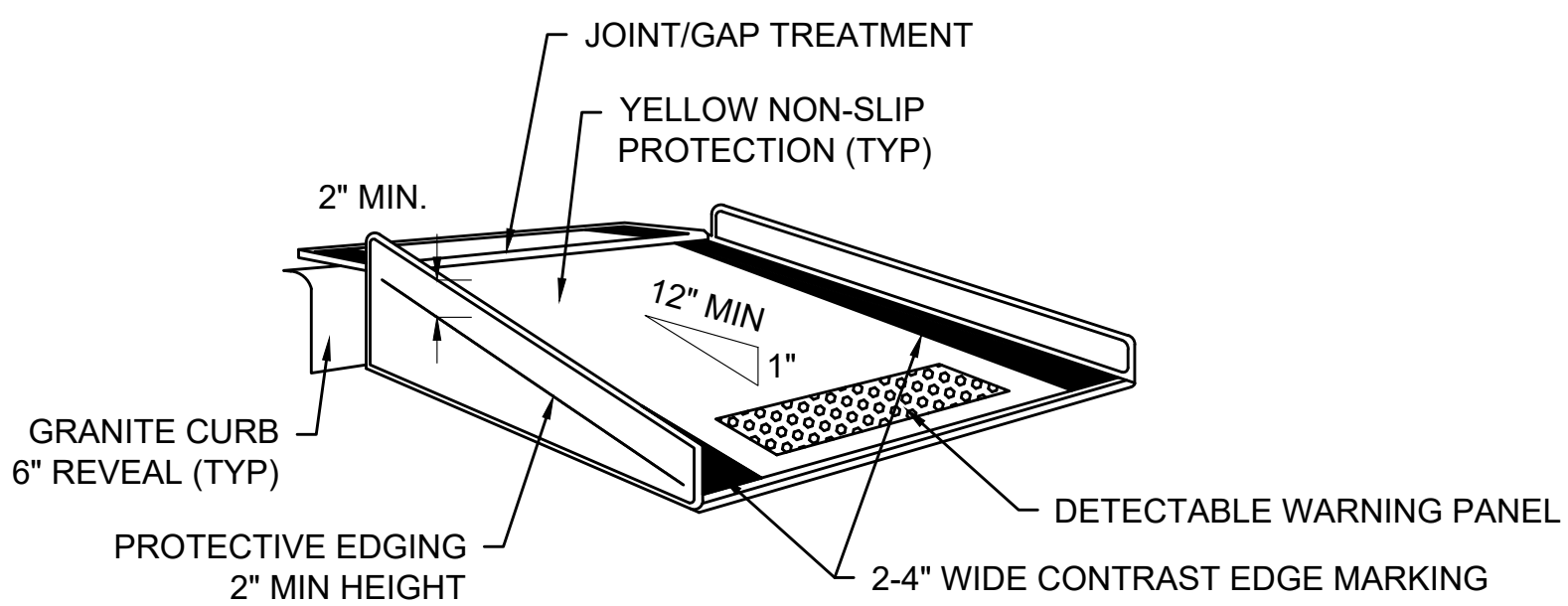
DWG: TTCP3a

DATE: MAY 2023

MAYNARD
CONCORD ST AT ROUTE 27
TEMPORARY TRAFFIC CONTROL PLANS
SHEET 14 OF 21
TYPICAL DETAILS



TEMPORARY CURB RAMP-PARALLEL TO CURB



TEMPORARY CURB RAMP-PERPENDICULAR TO CURB

NOTES:

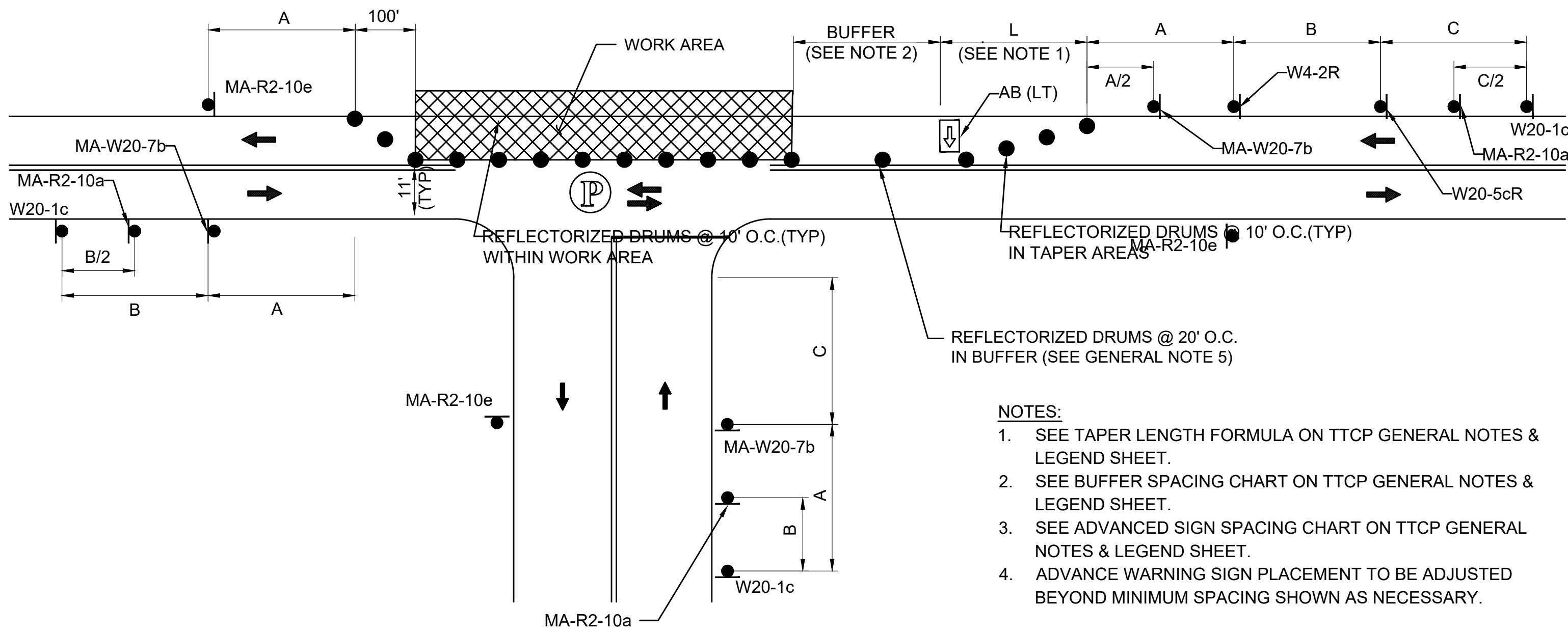
1. CURB RAMPS SHALL BE 60" MINIMUM WIDTH WITH A FIRM, STABLE AND NON-SLIP SURFACE.
2. PROTECTIVE EDGING WITH A 2" MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. THE CURB RAMP WALKWAY AND LANDING AREA SURFACE SHALL BE OF A SOLID CONTINUOUS CONTRASTING COLOR ABUTTING UP TO THE EXISTING SIDEWALK.
5. CURB RAMPS AND LANDINGS SHOULD HAVE A 1:50 (2%) MAX CROSS-SLOPE.
6. CLEAR SPACE OF 48"x48" MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
7. WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5" LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25" HIGH, AND BEVELED AT 1:2 BETWEEN 0.25" AND 0.5" HEIGHT.
10. IF A TEMPORARY PEDESTRIAN RAMP LEADS TO A CROSSWALK, THEN A DETECTABLE WARNING PAD MUST BE ADHERED TO THE BASE OF THE RAMP. IF IT LEADS TO A PROTECTED PEDESTRIAN BYPASS THAT DOES NOT CONFLICT WITH VEHICULAR TRAFFIC, THEN A PAD SHALL NOT BE INSTALLED ON THE RAMP.

TEMPORARY CURB RAMPS

SCALE: NTS

DWG: TTCP3b

DATE: MAY 2023



NOTES:

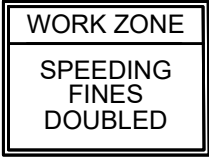
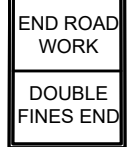







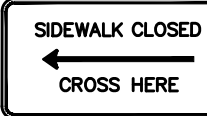
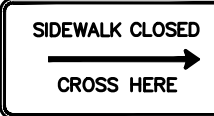








1. SEE TAPER LENGTH FORMULA ON TTCP GENERAL NOTES & LEGEND SHEET.
2. SEE BUFFER SPACING CHART ON TTCP GENERAL NOTES & LEGEND SHEET.
3. SEE ADVANCED SIGN SPACING CHART ON TTCP GENERAL NOTES & LEGEND SHEET.
4. ADVANCE WARNING SIGN PLACEMENT TO BE ADJUSTED BEYOND MINIMUM SPACING SHOWN AS NECESSARY.




FARSIDE LANE CLOSURE AT T-INTERSECTION

SCALE: NTS

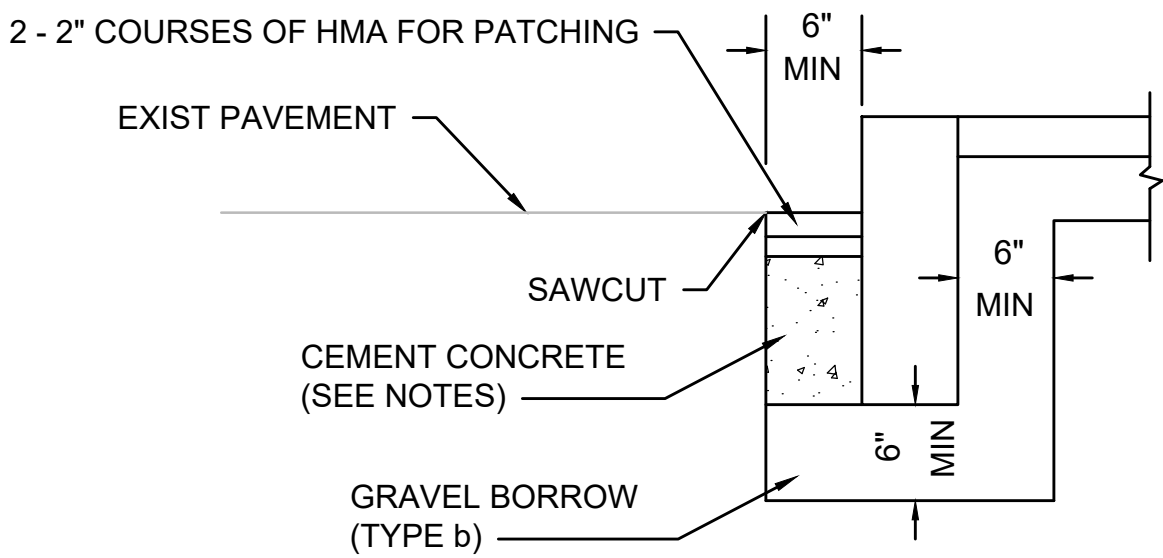
DWG: TTCP4b

DATE: FEB 2022

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 FLUOR- ESCENT ORANGE		
MA-W20-7b	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK
M4-9bL/R	30"	24"	 				FLUOR- ESCENT ORANGE	BLACK	BLACK
M4-9bSL/R	30"	24"	 				FLUOR- ESCENT ORANGE	BLACK	BLACK
R4-7b	24"	30"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			WHITE	BLACK	BLACK
R9-9	24"	12"					WHITE	BLACK	BLACK
R9-11aL/R	24"	12"	 				WHITE	BLACK	BLACK
W1-4L	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK
W4-2R	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK
W5-1	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
W8-8	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK
W8-15	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK
W8-24	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
W20-1	36"	36"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			FLUOR- ESCENT ORANGE	BLACK	BLACK
W20-4	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK
W20-5R	36"	36"					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.

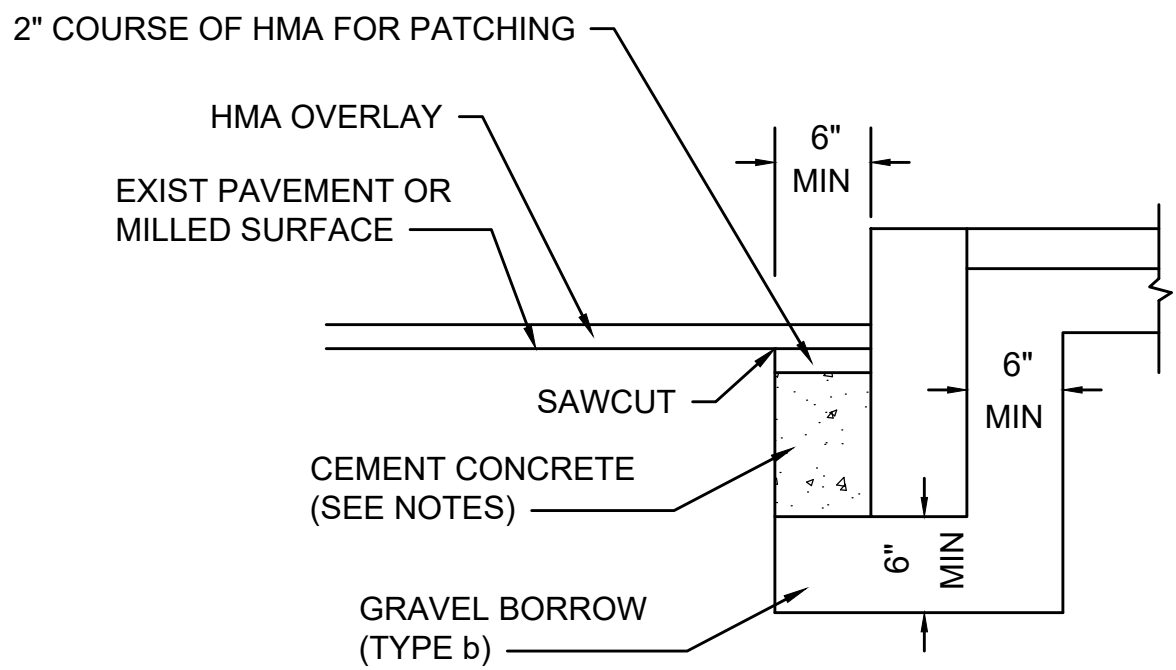


NOTES:

1. SAWCUT 6" FROM CURB LINE AND REMOVE EXISTING PAVEMENT AND GRAVEL. REPLACE WITH CEMENT CONCRETE.
2. 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.

GRANITE CURB IN EXISTING PAVEMENT

SCALE: N.T.S.

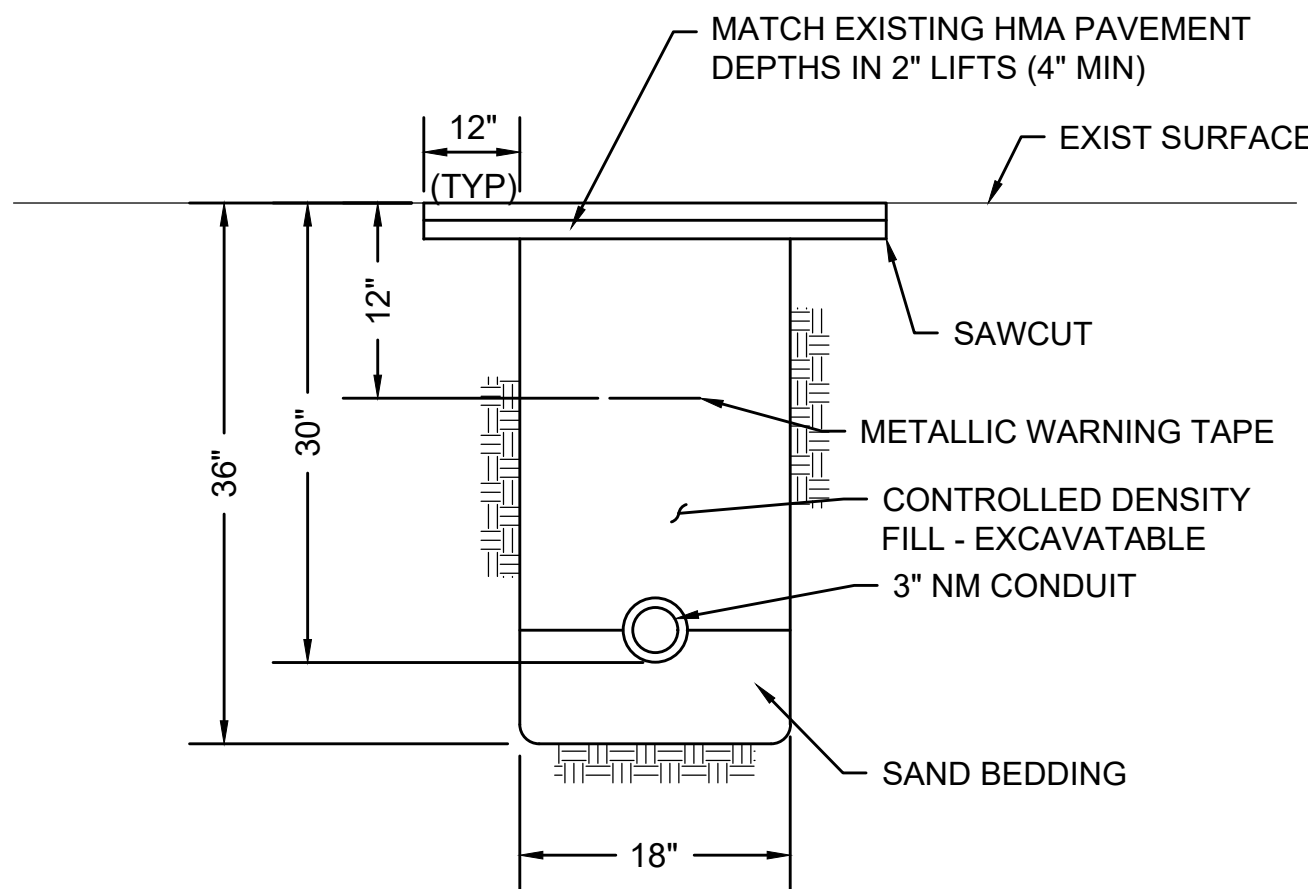


NOTES:

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.

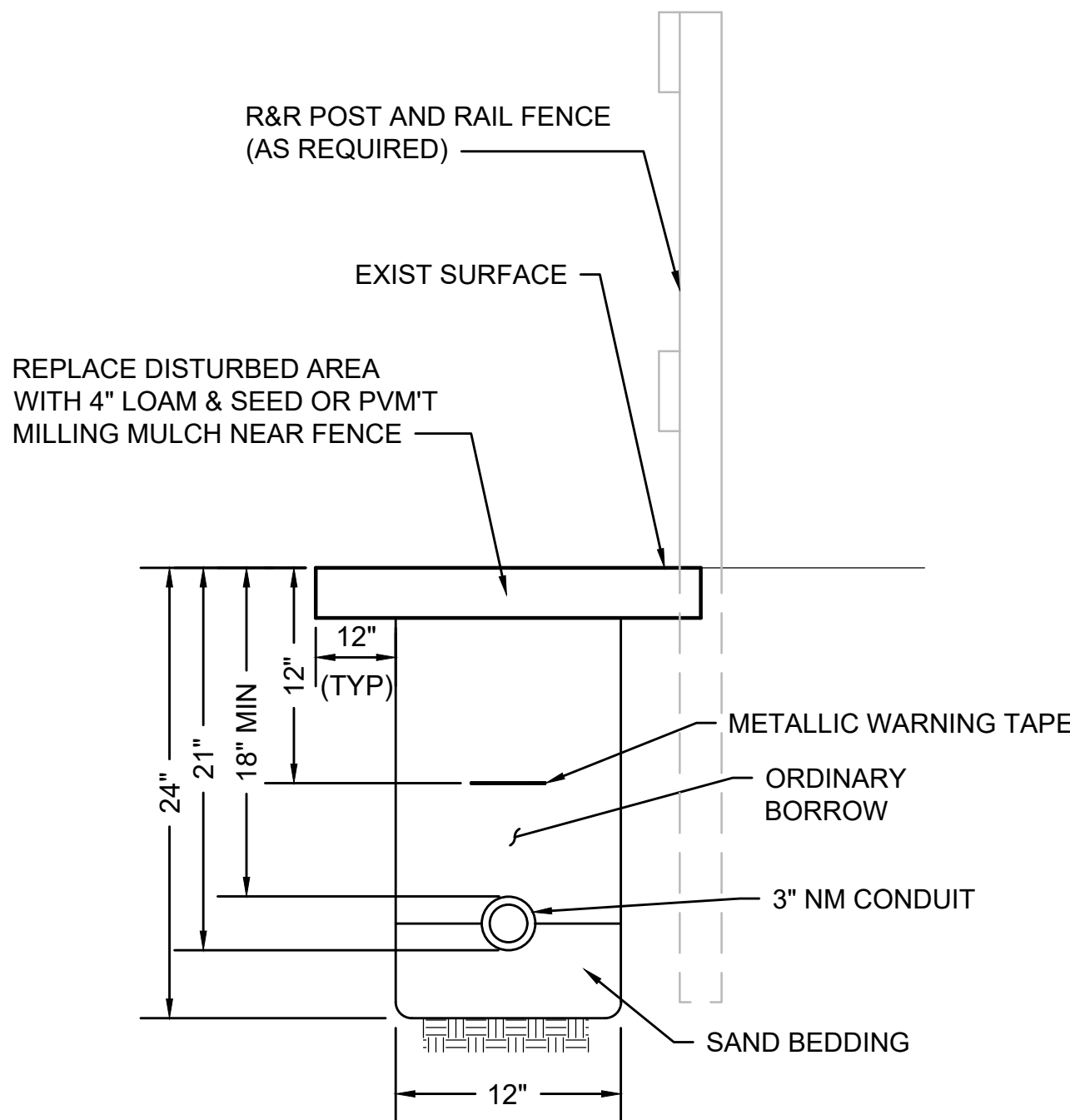
GRANITE CURB IN EXISTING PAVEMENT - WITH OVERLAY

SCALE: N.T.S.



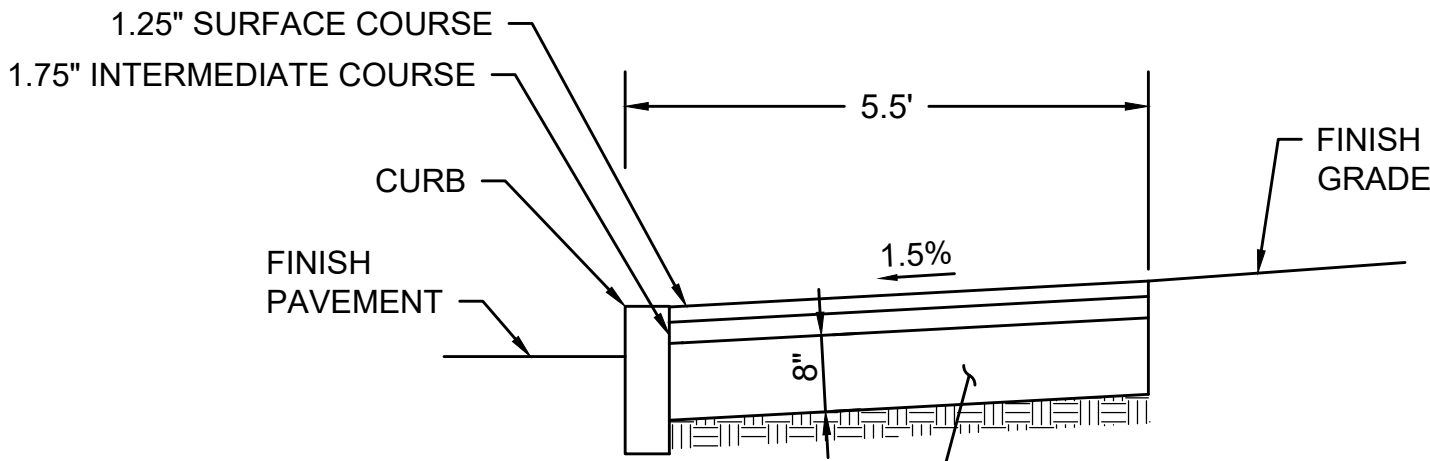
CONDUIT CROSSING ROADWAY/DRIVEWAY

SCALE: N.T.S.



CONDUIT IN GRASS OR PVM'T MILLING MULCH

SCALE: N.T.S.



SECTION

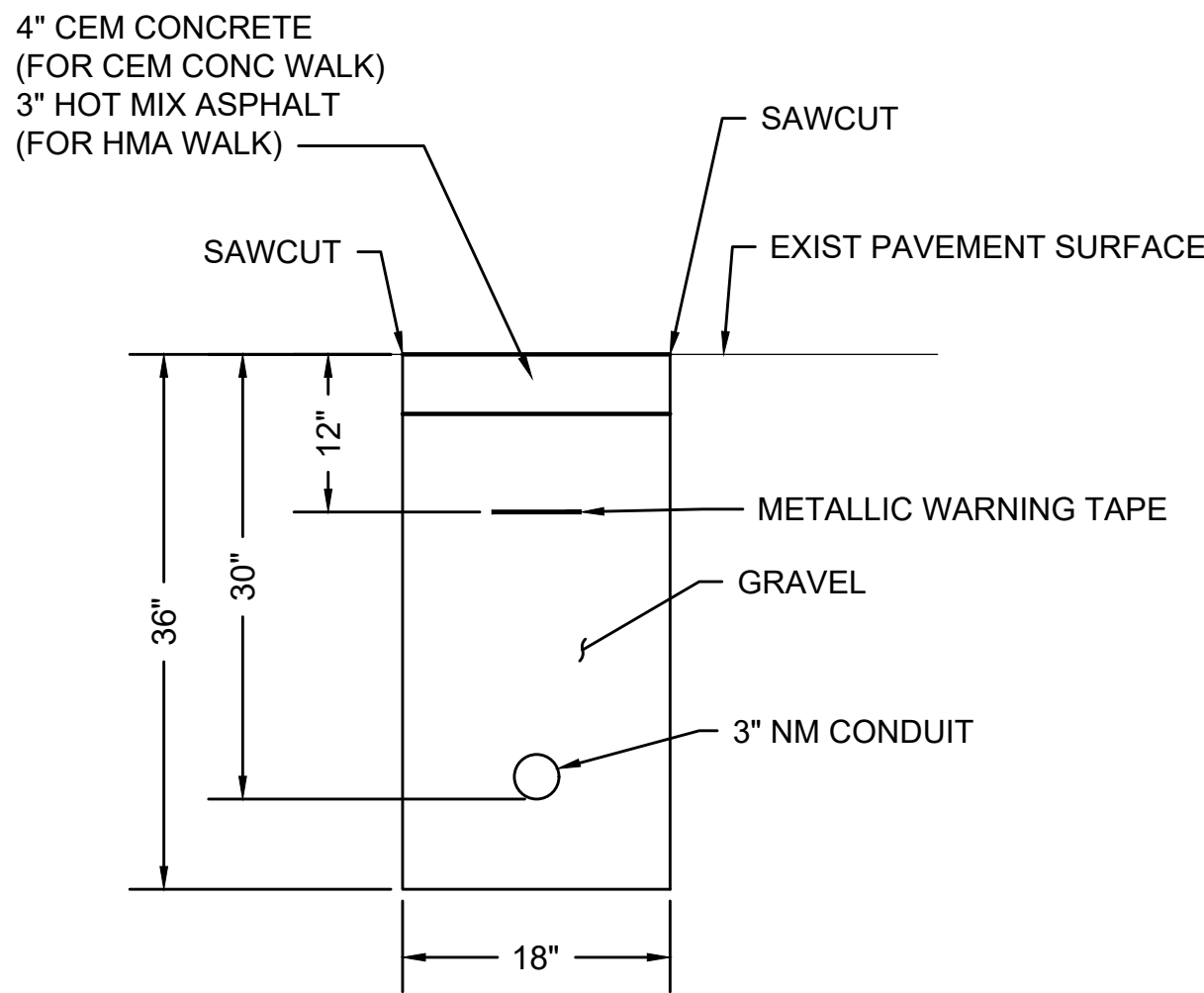
PAVEMENT NOTES:

- SURFACE: 1.25" SIDEWALK AND DRIVEWAY RECIPE MIX OR 1.25" SUPERPAVE SURFACE COURSE 9.5MM (SSC - 9.5)
- INTERMEDIATE: 1.75" SIDEWALK AND DRIVEWAY RECIPE MIX OR 1.75" SUPERPAVE SURFACE COURSE 12.5MM (SSC - 12.5)

NOTES:

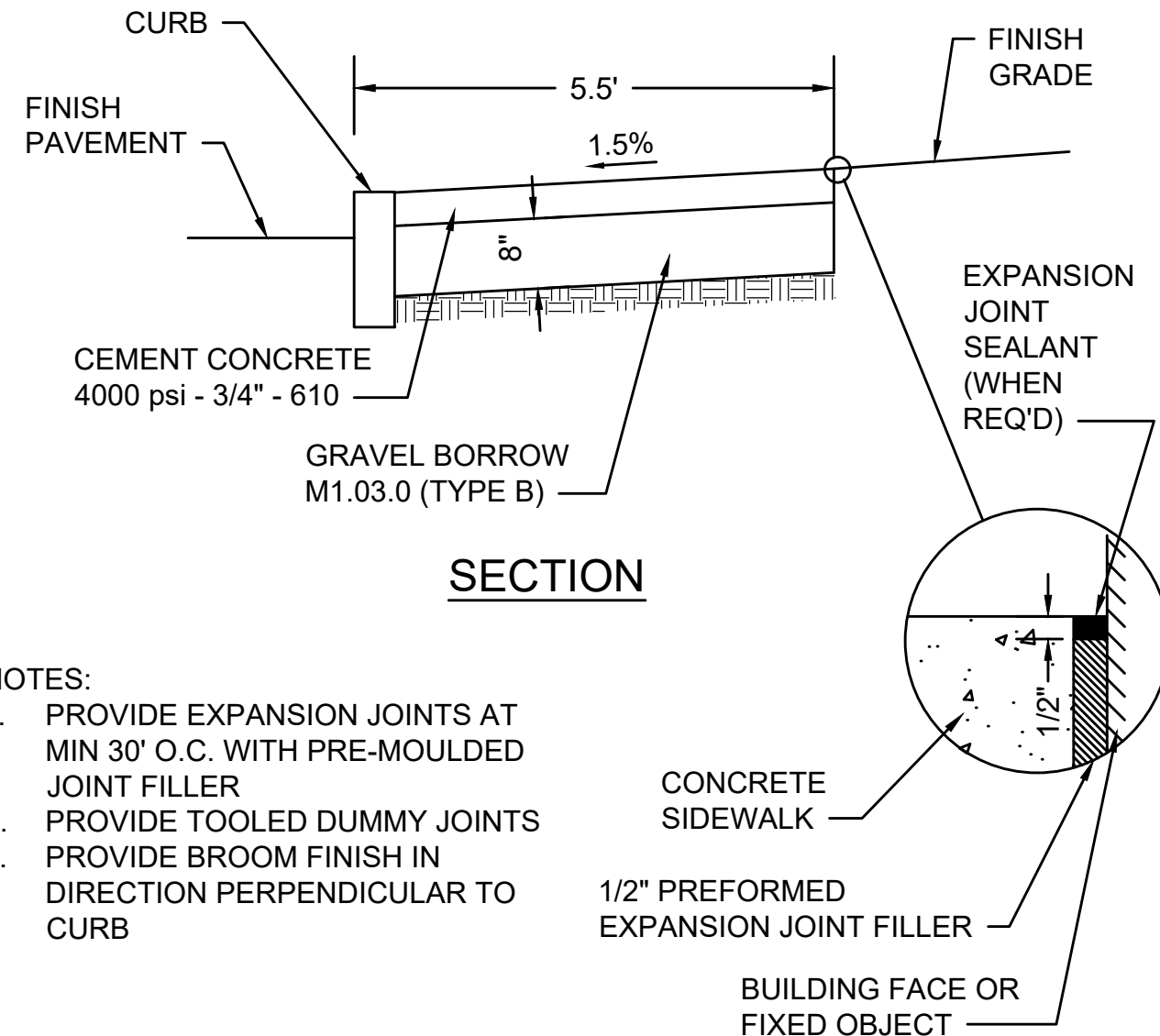
1. IF THERE ARE OBSTRUCTIONS IN THE WALKWAY IT MUST BE WIDENED TO PROVIDE A MINIMUM 3 FEET OF CLEARANCE.

HOT MIX ASPHALT SIDEWALK



CONDUIT IN SIDEWALK

SCALE: N.T.S.



SECTION

NOTES:

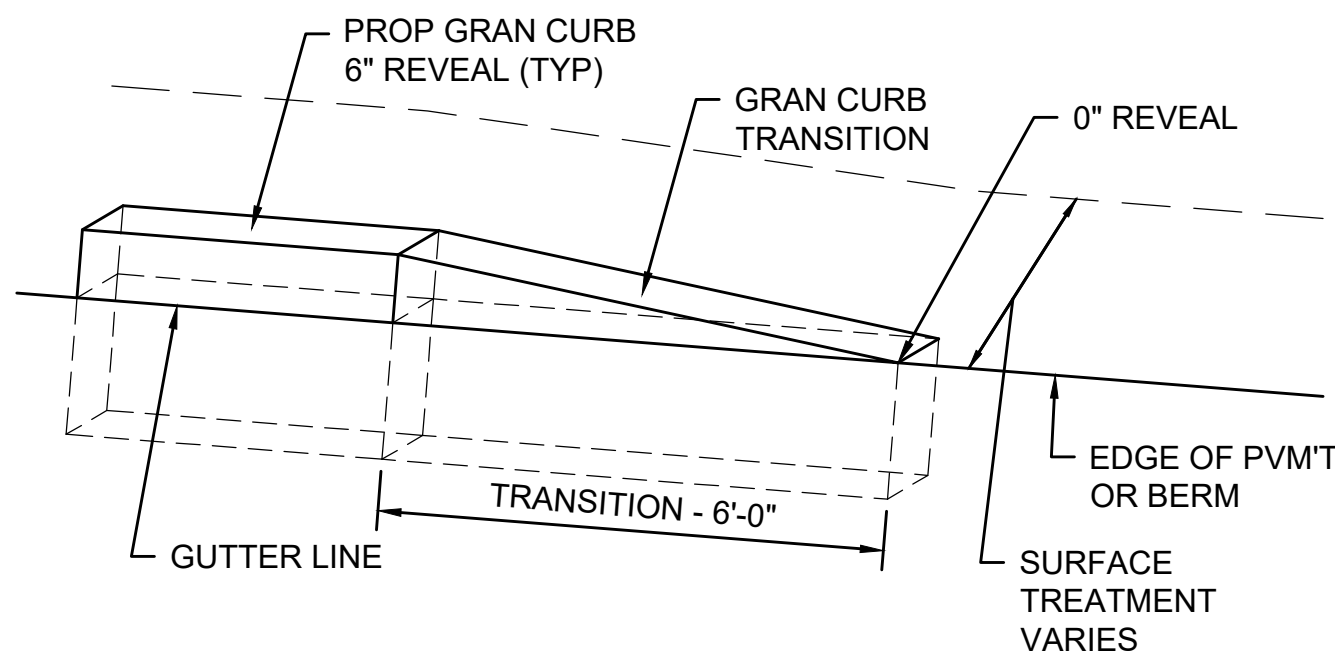
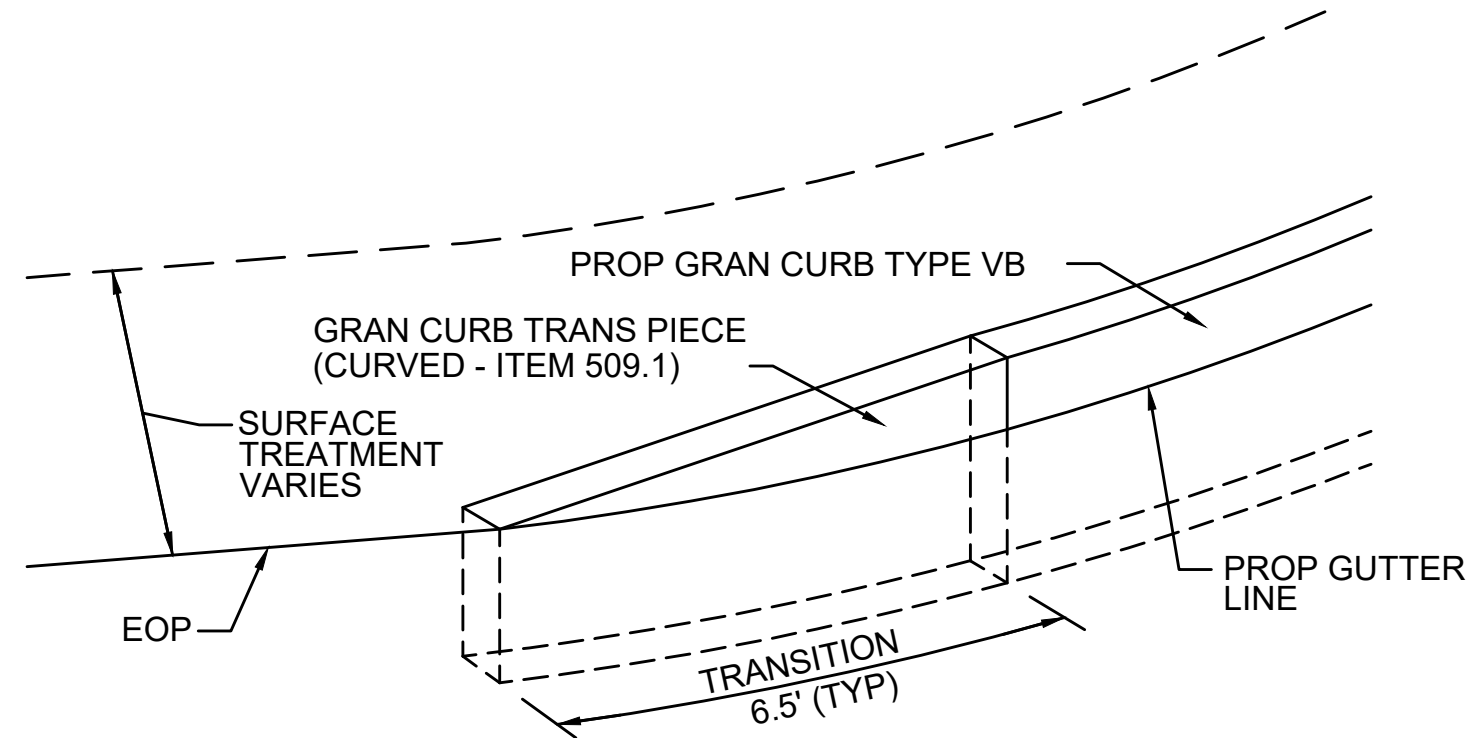
1. PROVIDE EXPANSION JOINTS AT MIN 30' O.C. WITH PRE-MOULDED JOINT FILLER
2. PROVIDE TOOLED DUMMY JOINTS
3. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB

CEMENT CONCRETE SIDEWALK

SCALE: N.T.S.

DWG: WALK-01

DATE: MARCH 2013



GRANITE CURB TRANSITION PIECE

SCALE: N.T.S.

PAVEMENT NOTES

PROPOSED FULL DEPTH PAVEMENT PATCHING

SURFACE: 2" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER ASPHALT EMULSION FOR TACK COAT OVER

INTERMEDIATE: 2.5" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0) OVER ASPHALT EMULSION FOR TACK COAT OVER

SUBBASE: 8" GRAVEL BORROW, TYPE b

PROPOSED PAVEMENT MILLING AND OVERLAY

SURFACE: 2" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER ASPHALT EMULSION FOR TACK COAT OVER

MILLING: 2" PAVEMENT FINE MILLING

PROPOSED HOT MIX ASPHALT DRIVEWAY

SURFACE: 1.5" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER

INTERMEDIATE: 2.5" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER

SUBBASE 8" GRAVEL BORROW, TYPE b

PROPOSED HOT MIX ASPHALT SIDEWALK

SURFACE: 1.25" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) OVER

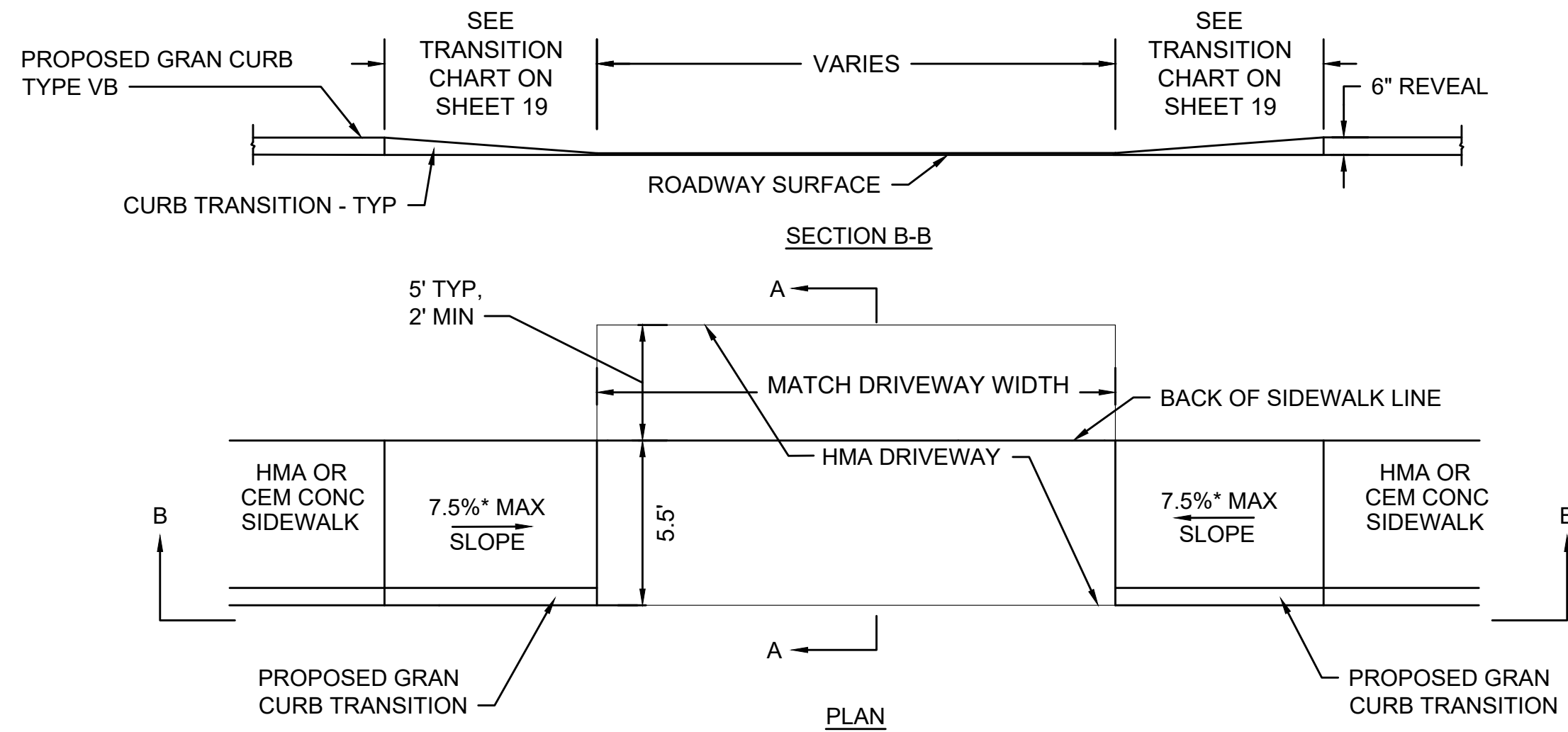
INTERMEDIATE: 1.75" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER

SUBBASE: 8" GRAVEL BORROW, TYPE b

PROPOSED CEMENT CONCRETE SIDEWALK/ ISALND

SURFACE: 4" CEMENT CONCRETE (4000 PSI, 3/4", 610 LBS) OVER

SUBBASE: 8" GRAVEL BORROW, TYPE b

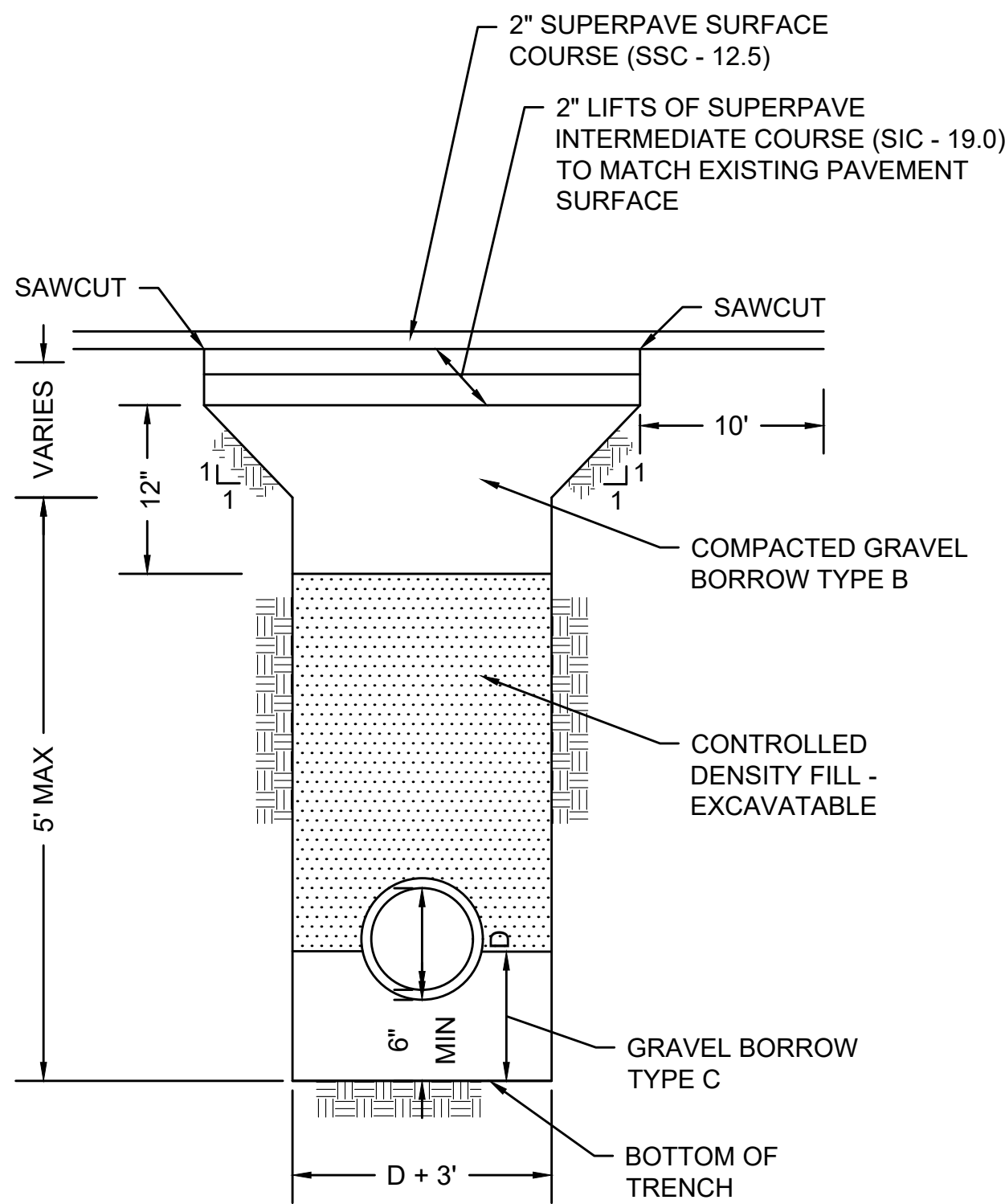


* DRIVEWAY AND SIDEWALK SLOPED TO MEET AT 1/2 OF THE CURB REVEAL

* 0.5% TOLERANCE FOR CONSTRUCTION

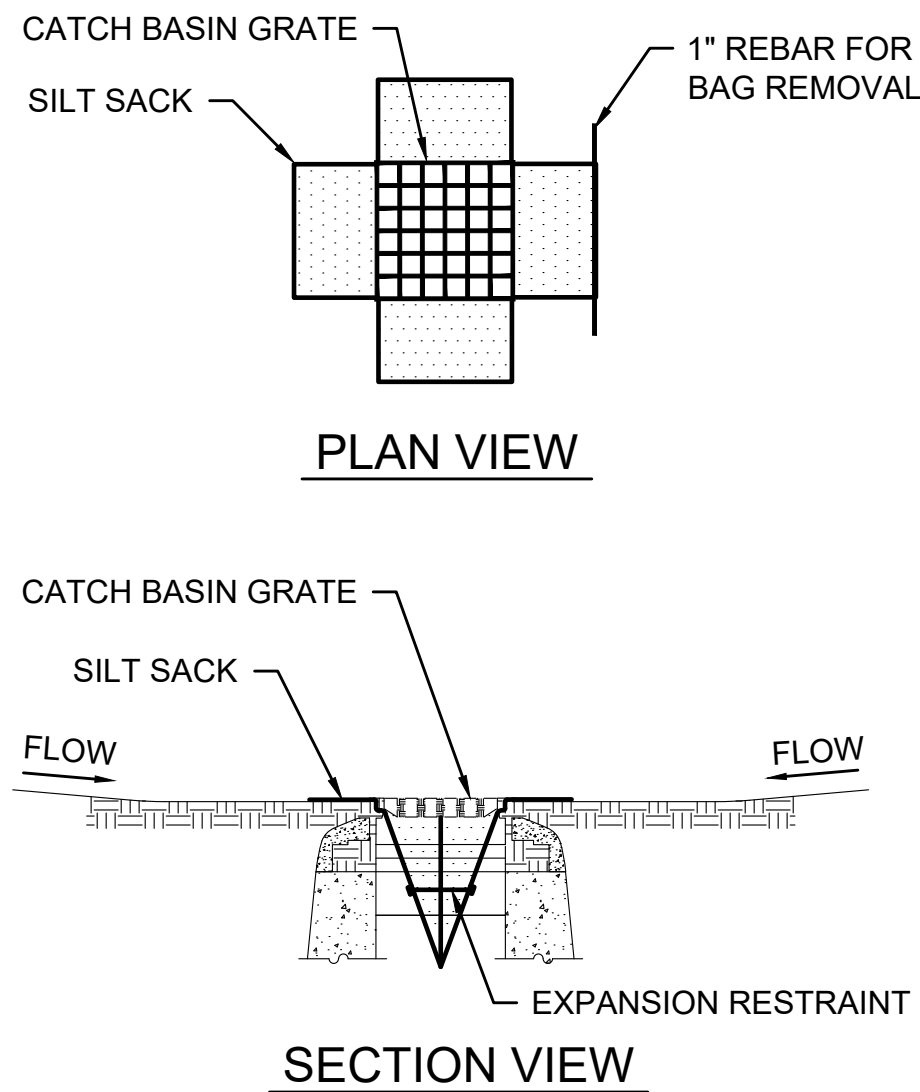
TYPICAL DRIVEWAY WITH SIDEWALK

SCALE: N.T.S.



TRENCH DETAIL IN EXISTING HOT MIX ASPHALT

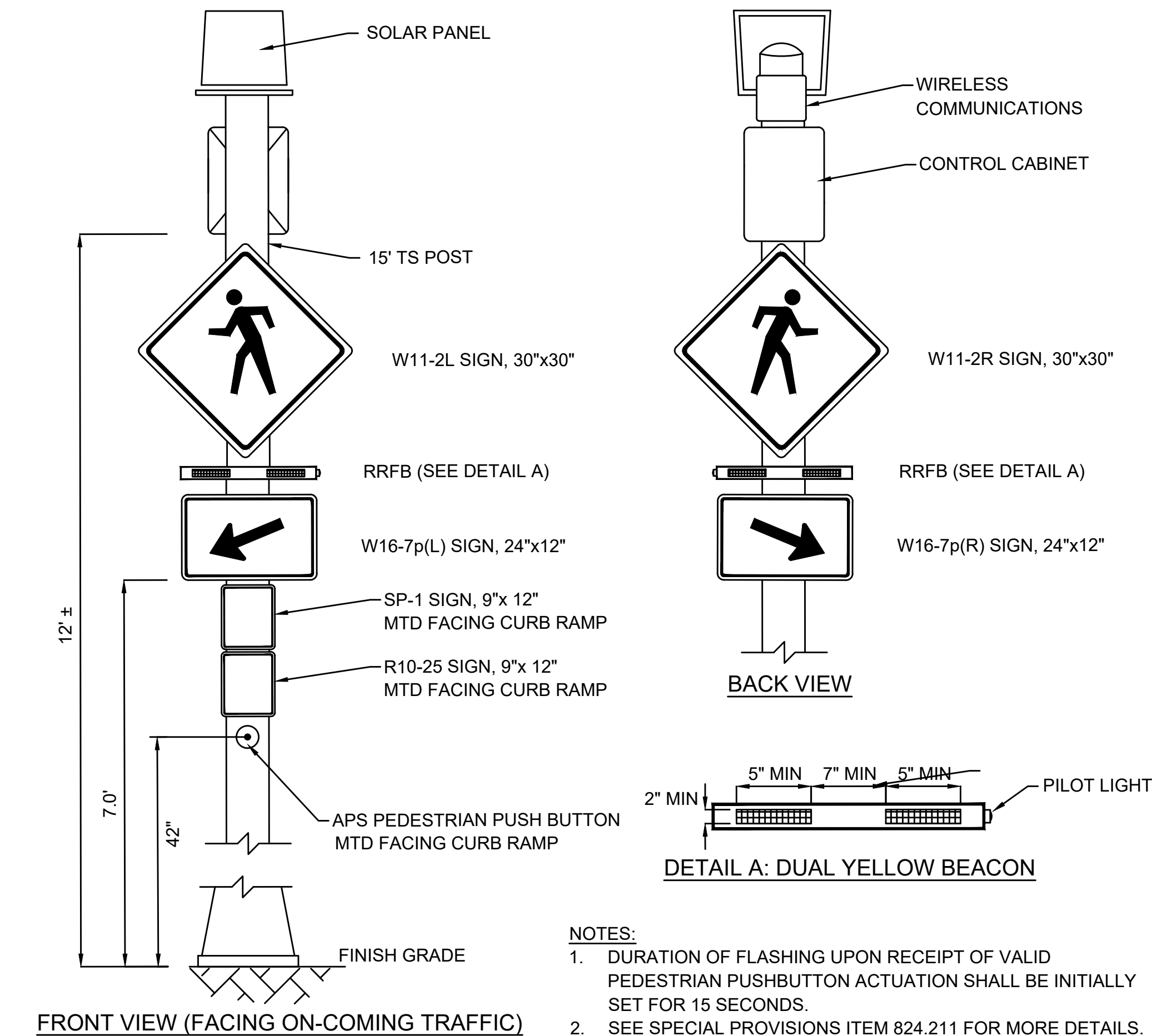
SCALE: N.T.S.



- NOTES:
1. INSTALL SILT SACK IN EXISTING CATCH BASINS, BEFORE COMMENCING WORK, AND IN NEW CATCH BASINS IMMEDIATELY AFTER INSTALLATION OF STRUCTURE. MAINTAIN UNTIL BINDER 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

INLET PROTECTION - SILT SACK
IN CATCH BASIN

SCALE: N.T.S.

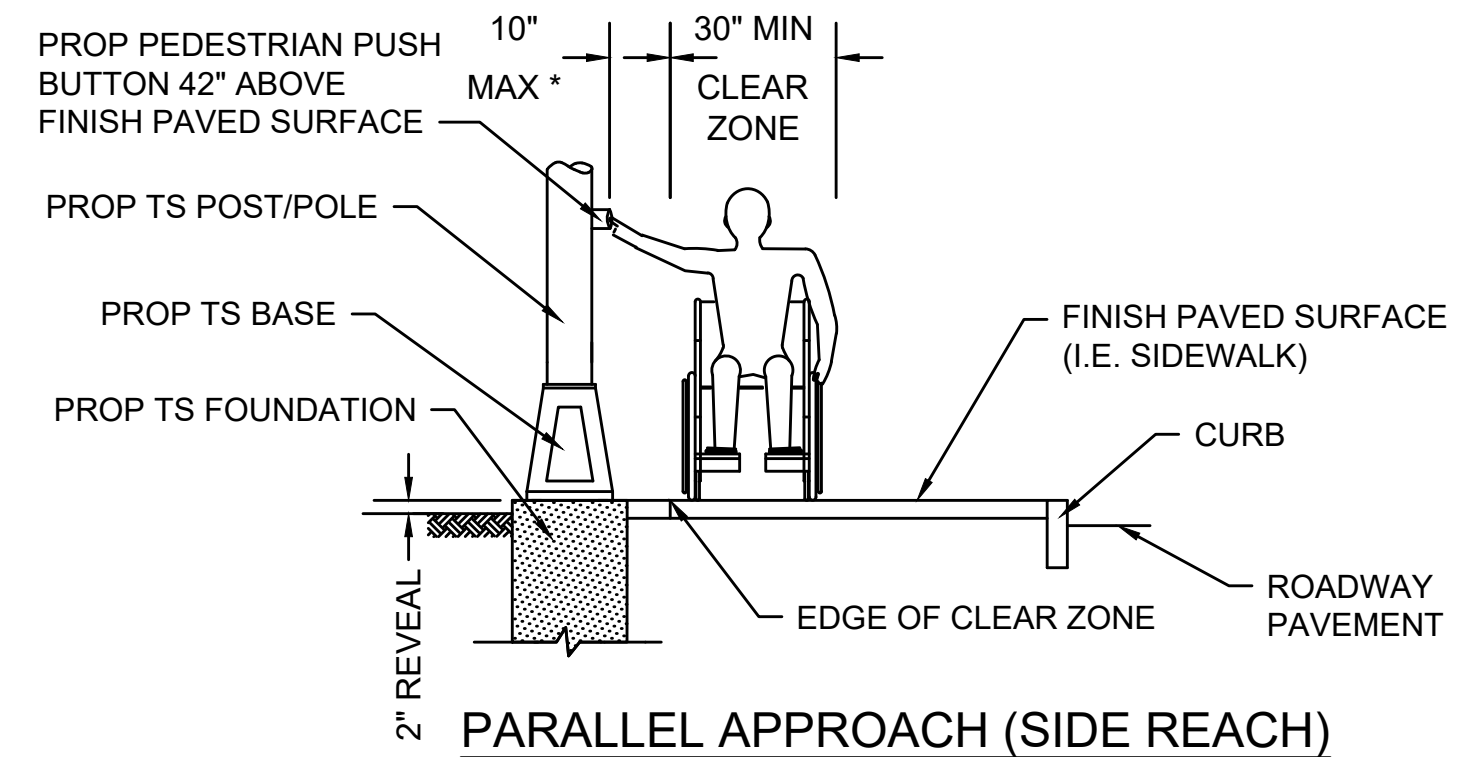
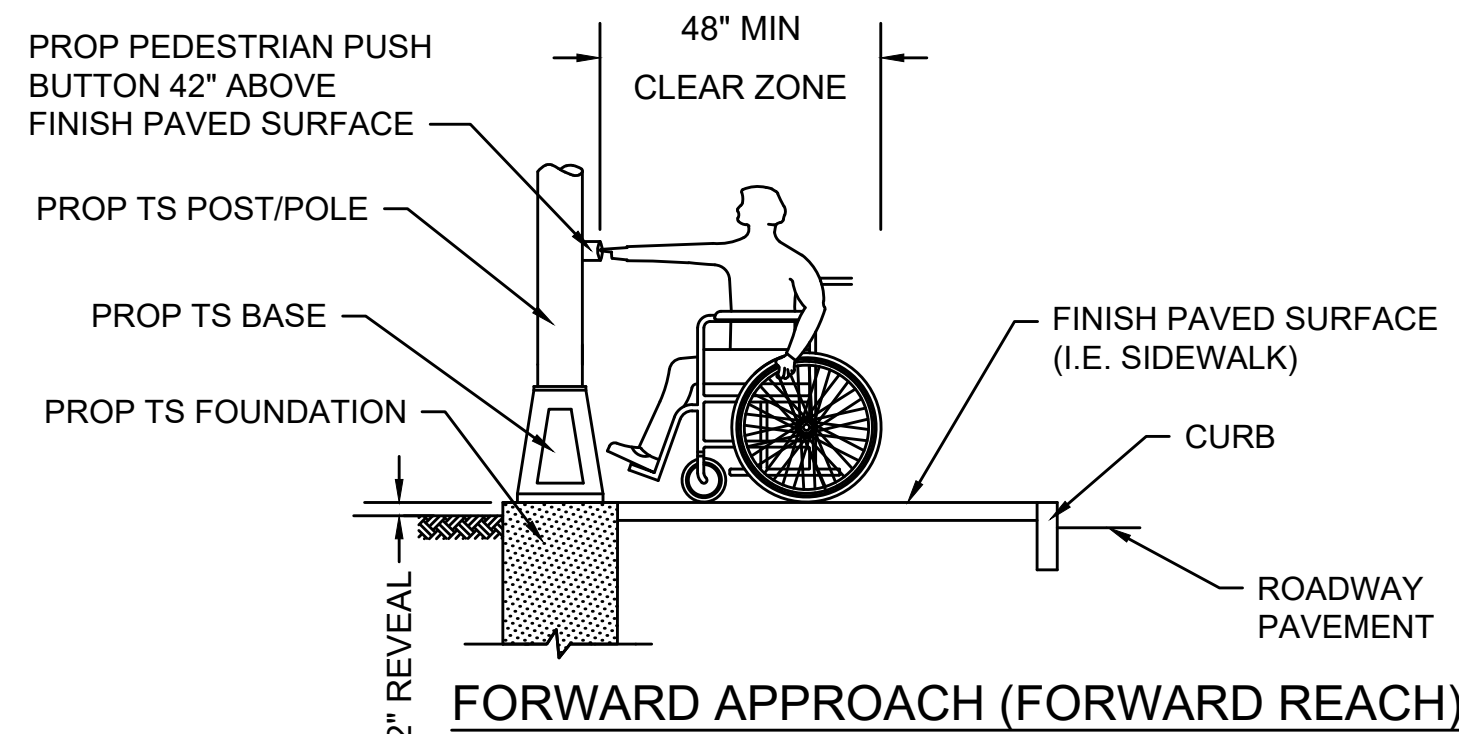


RECTANGULAR RAPID FLASHING BEACON (SOLAR)

SCALE: NTS

LIST OF MAJOR ITEMS REQUIRED		
ACTON STREET AT NASON STREET		
PAY ITEM	QUANTITY	DESCRIPTION
824.211	2	15' TS POST STANDARD INCL. FOUNDATION
	4	L.E.D. RECTANGULAR RAPID FLASHING BEACON (RRFB)
	2	SOLAR PANEL
	2	RADIO ANTENNA
	2	PEDESTRIAN PUSH BUTTON W/R10-25
	2	BATTERY SYSTEM
	2	SIDE-OF-POST CONTROL CABINET
832.	2	SP-1
	2	W11-2(L)
	2	W11-2(R)
	2	W16-7p(L)
	2	W16-7p(R)

PLUS NECESSARY DUCT, CABLE, LABOR, MISCELLANEOUS MATERIAL AND EQUIPMENT TO COMPLETE THE INSTALLATION AND PROVIDE AN OPERATING RECTANGULAR RAPID FLASHING BEACON SYSTEM



NOTE:
A CLEAR GROUND SPACE SHALL CONSIST OF A STABLE AND FIRM AREA, COMPLYING WITH 521 CMR 6.5 (FORWARD REACH) OR 521 CMR 6.6 (SIDE REACH) AND SHALL BE PROVIDED AT EACH OF THE PEDESTRIAN PUSH BUTTONS.
a) WHERE A FORWARD APPROACH IS PROVIDED, PEDESTRIAN PUSH BUTTONS SHALL ABUT AND BE CENTERED ON THE CLEAR GROUND SPACE.
b) WHERE A PARALLEL APPROACH IS PROVIDED, PEDESTRIAN PUSH BUTTONS SHALL BE WITHIN TEN INCHES (10") HORIZONTALLY OF AND CENTERED ON THE CLEAR GROUND SPACE.

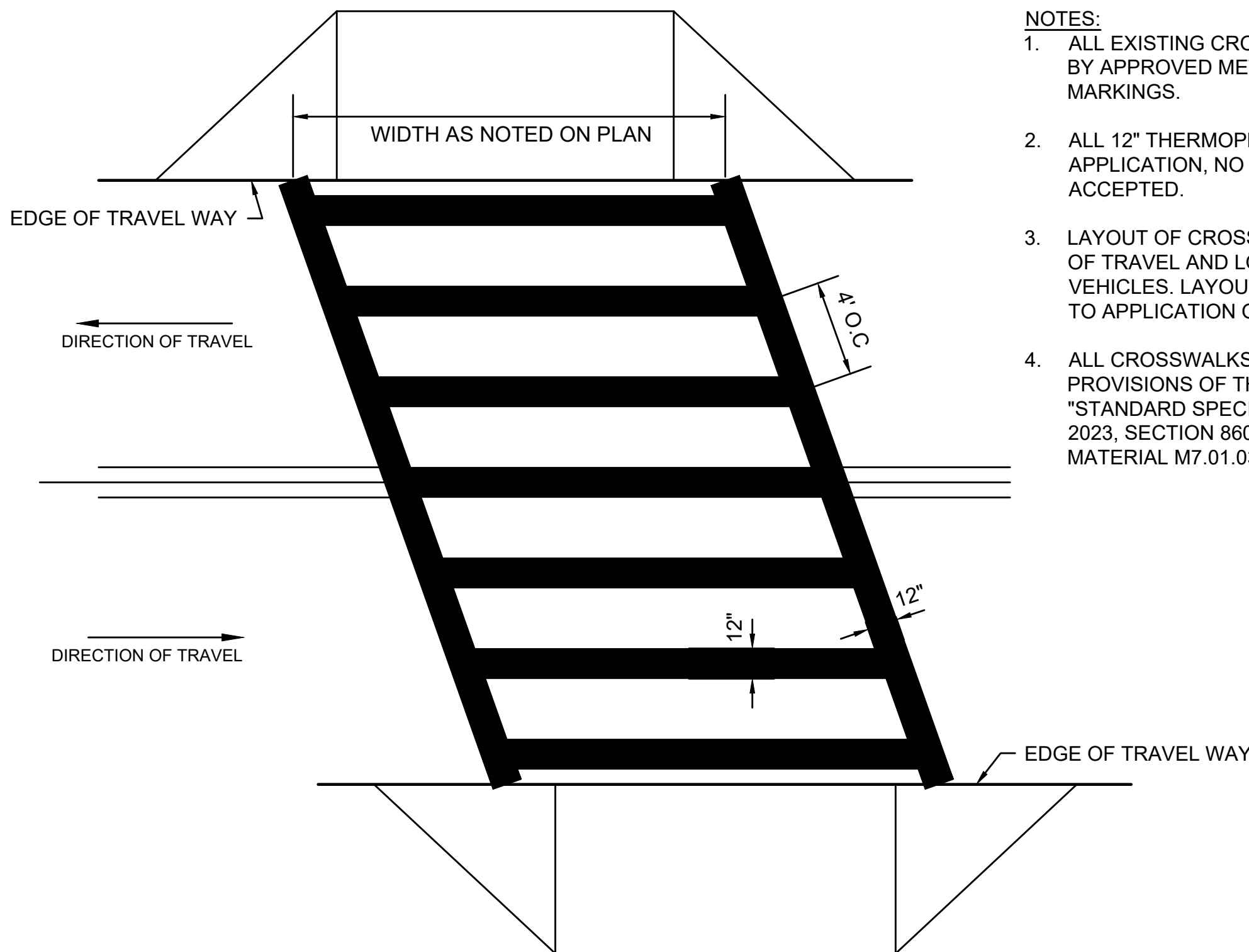
*CONTRACTOR SHALL PROVIDE EXTENSION BRACKET FOR PUSH BUTTOM WHERE REQUIRED TO OBTAIN A MAXIMUM 10" REACH.

PEDESTRIAN PUSH BUTTON CLEAR ZONE

SCALE: N.T.S.

DWG: PM-10

DATE: APRIL 2013



- NOTES:**
- ALL EXISTING CROSSWALK MARKINGS SHALL BE FULLY ERADICATED BY APPROVED METHOD PRIOR TO THE APPLICATION OF PROPOSED MARKINGS.
 - ALL 12" THERMOPLASTIC LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO - 6" LINES) WILL BE ACCEPTED.
 - LAYOUT OF CROSSWALKS SHALL BE ORIENTATED IN THE DIRECTION OF TRAVEL AND LOCATED OUTSIDE OF THE WHEEL PATH OF VEHICLES. LAYOUT SHALL BE APPROVED BY THE ENGINEER PRIOR TO APPLICATION OF THERMOPLASTIC.
 - ALL CROSSWALKS INSTALLED SHALL CONFORM TO THE RELEVANT PROVISIONS OF THE MASSACHUSETTS HIGHWAY DEPARTMENT "STANDARD SPECIFICATION FOR HIGHWAY AND BRIDGES" DATED 2023, SECTION 860 FOR REFLECTORIZED LINE (THERMO-PLASTIC) & MATERIAL M7.01.03, LATEST REVISIONS.

CONTINENTAL-STYLE CROSSWALK - 12" WIDE LINES

SCALE: N.T.S.

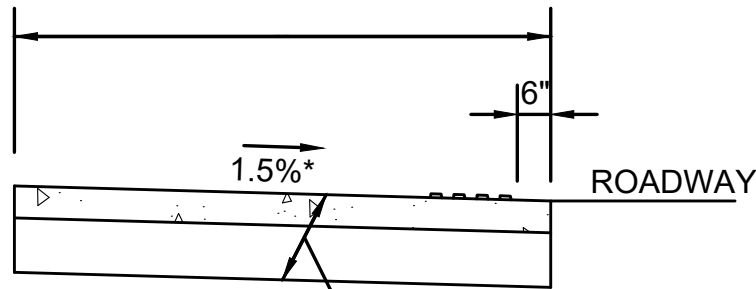
DWG: PM-27

DATE: MAY 2017

ROADWAY PROFILE GRADE	* HIGH SIDE TRASITION LENGTH
%	ENGLISH UNITS
=0%	6'-6"
>0% TO 1%	7'-8"
>1% TO 2%	9'-0"
>2% TO 3%	11'-0"
>3% TO 4%	14'-0"
>4% TO 5%	15'-0" MAX

PEDESTRIAN CURB RAMP DATA			
NO.	RAMP OPENING	SIDEWALK WIDTH	COMMENTS
3	STA 3+76±, 13± RT	5'-6"	HIGH SIDE TRANSITION LENGTH TO BE DETERMINED IN THE FIELD BY THE TOWN OF MAYNARD FIELD REP
4	STA 3+76±, 13± LT	6'-6"	HIGH SIDE TRANSITION LENGTH TO BE DETERMINED IN THE FIELD BY THE TOWN OF MAYNARD FIELD REP
7	STA 103+37±, 14± RT	5'-6"	HIGH SIDE TRANSITION LENGTH TO BE DETERMINED IN THE FIELD BY THE TOWN OF MAYNARD FIELD REP
8	STA 104+20±, 50± RT	5'-6"	HIGH SIDE TRANSITION LENGTH TO BE DETERMINED IN THE FIELD BY THE TOWN OF MAYNARD FIELD REP
9	STA 104+48±, 32± RT	5'-6"	HIGH SIDE TRANSITION LENGTH TO BE DETERMINED IN THE FIELD BY THE TOWN OF MAYNARD FIELD REP
10	STA 103+08±, 15± RT	5'-6"	HIGH SIDE TRANSITION LENGTH TO BE DETERMINED IN THE FIELD BY THE TOWN OF MAYNARD FIELD REP
12	STA 10+20±, 24± LT	5'-6"	HIGH SIDE TRANSITION LENGTH TO BE DETERMINED IN THE FIELD BY THE TOWN OF MAYNARD FIELD REP
13	STA 10+50±, 31± LT	5'-6"	HIGH SIDE TRANSITION LENGTH TO BE DETERMINED IN THE FIELD BY THE TOWN OF MAYNARD FIELD REP

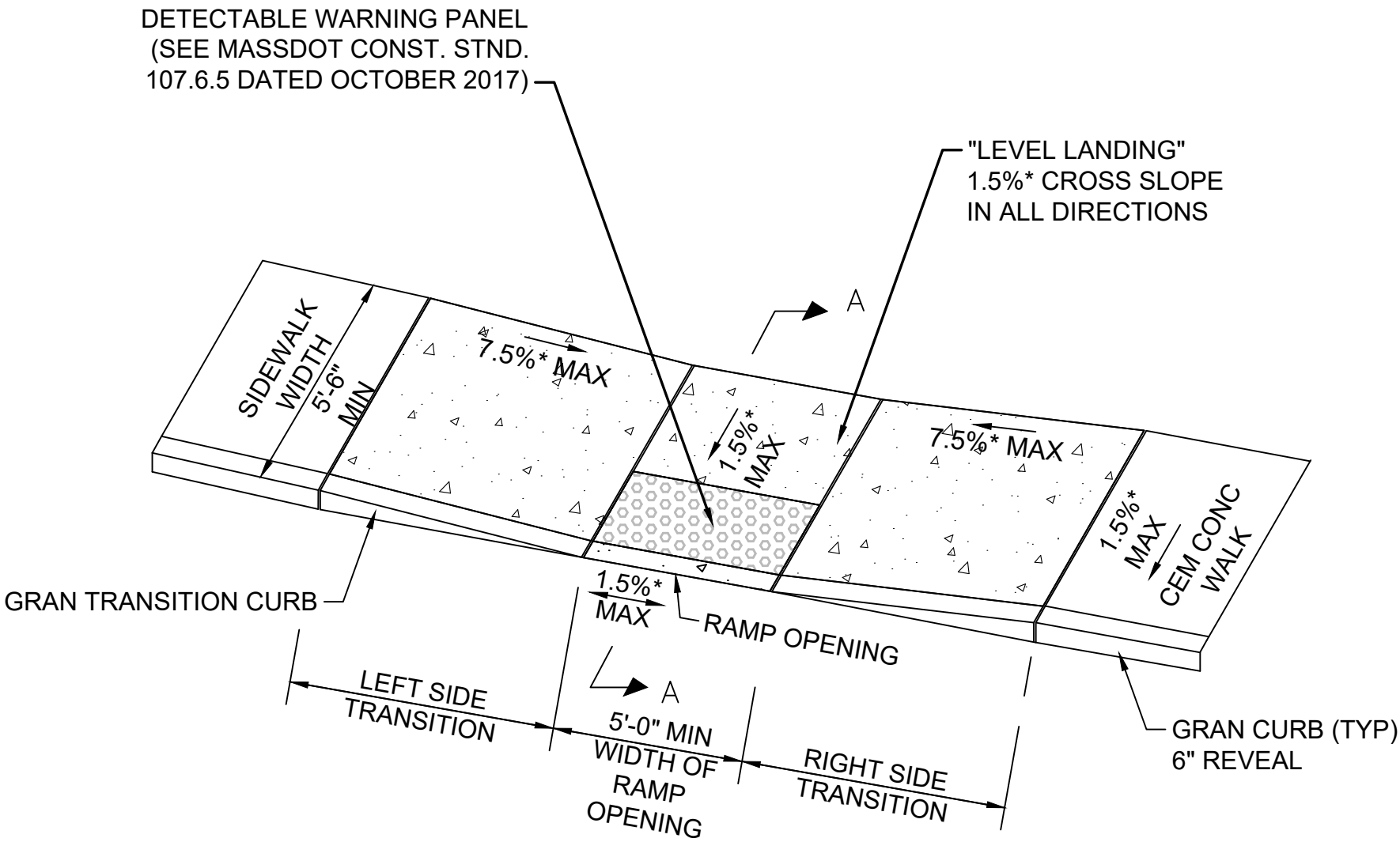
NOTE: TOLERANCE FOR CONSTRUCTION ± 0.5%



SECTION A-A

LEGEND

- [Symbol] = LIMITS OF CEM CONC RAMP
- [Symbol] = DETECTABLE WARNING PANEL



OBLIQUE VIEW

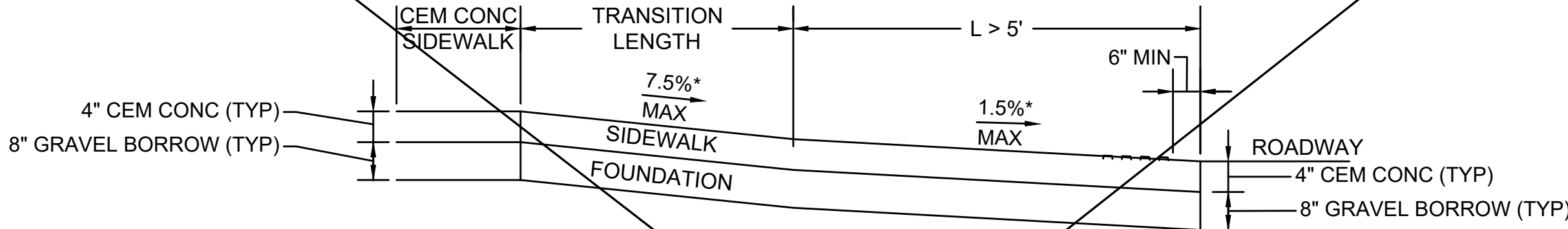
*TOLERANCE FOR CONSTRUCTION ±0.5%

NARROW PEDESTRIAN RAMP IN SIDEWALK 6'-6" OR LESS

SCALE: NTS MassDOT STANDARD DETAIL REFERENCE: E 107.2.1

PEDESTRIAN CURB RAMP DATA			
NO.	RAMP OPENING	SIDEWALK WIDTH	COMMENTS

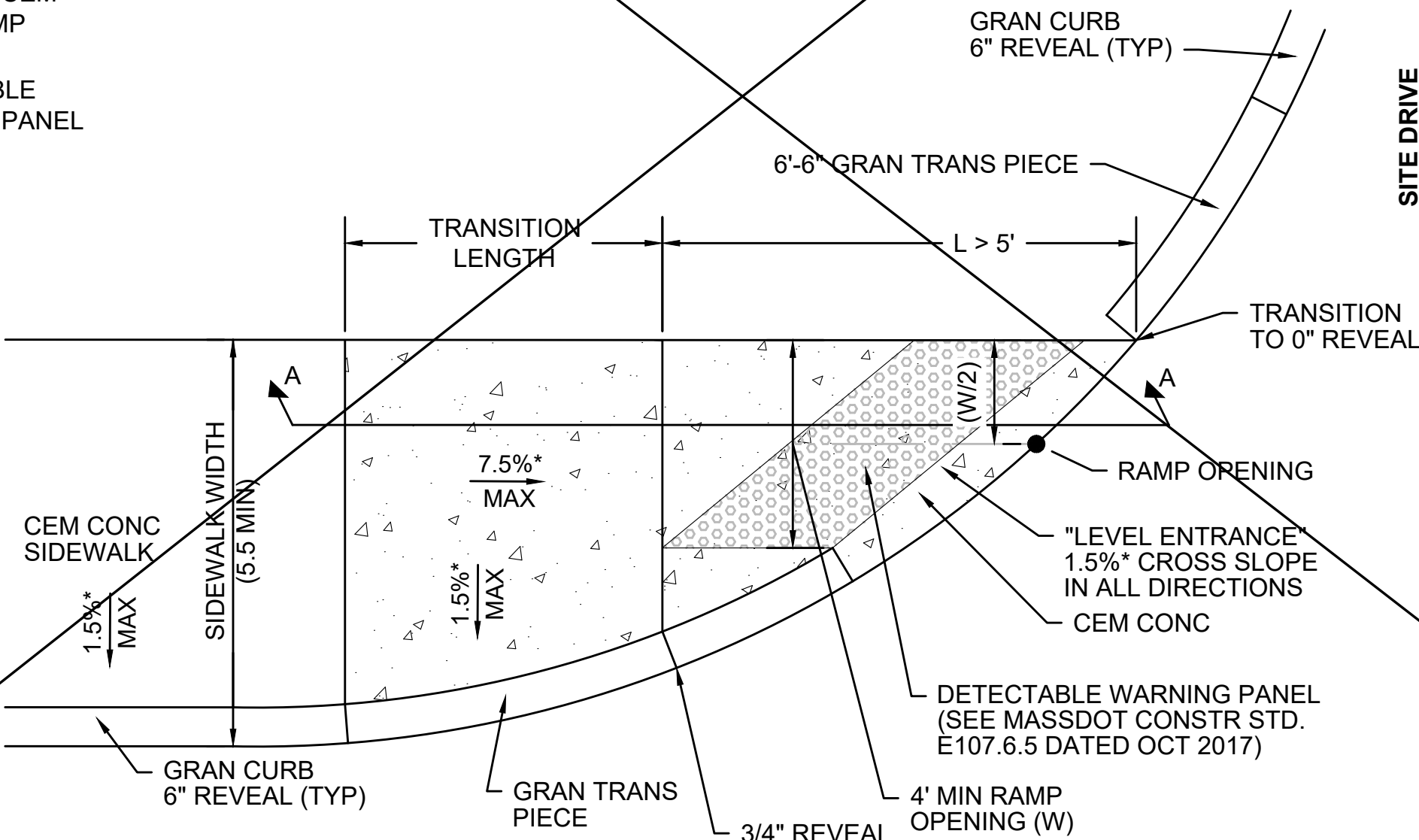
NOTE: TOLERANCE FOR CONSTRUCTION ± 0.5%



SECTION A-A

LEGEND

- [Symbol] LIMITS OF CEM CONC RAMP
- [Symbol] DETECTABLE WARNING PANEL



*TOLERANCE FOR CONSTRUCTION ±0.5%

PEDESTRIAN CURB RAMP - 'L' IS GREATER THAN 5'

SCALE: NTS

ROADWAY PROFILE GRADE	* HIGH SIDE TRASITION LENGTH
%	ENGLISH UNITS
=0%	6'-6"
>0% TO 1%	7'-8"
>1% TO 2%	9'-0"
>2% TO 3%	11'-0"
>3% TO 4%	14'-0"
>4% TO 5%	15'-0" MAX

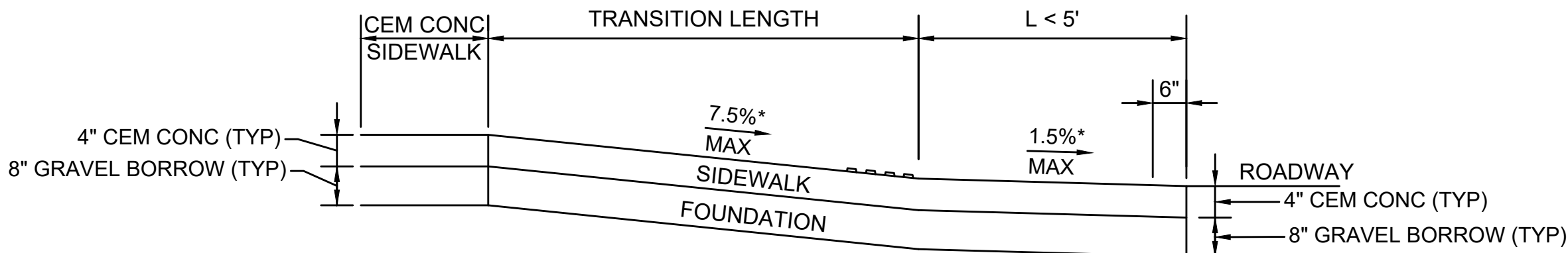
MAYNARD
CONCORD ST AT ROUTE 27
PEDESTRIAN CURB RAMP DETAILS
SHEET 20 OF 21

PEDESTRIAN CURB RAMP DATA			
NO.	RAMP OPENING	SIDEWALK WIDTH	COMMENTS
1	STA 3+31±, 18'± RT	10'-7"	HIGH SIDE TRANSITION LENGTH TO BE DETERMINED IN THE FIELD BY THE TOWN OF MAYNARD FIELD REP

NOTE: TOLERANCE FOR CONSTRUCTION ± 0.5%

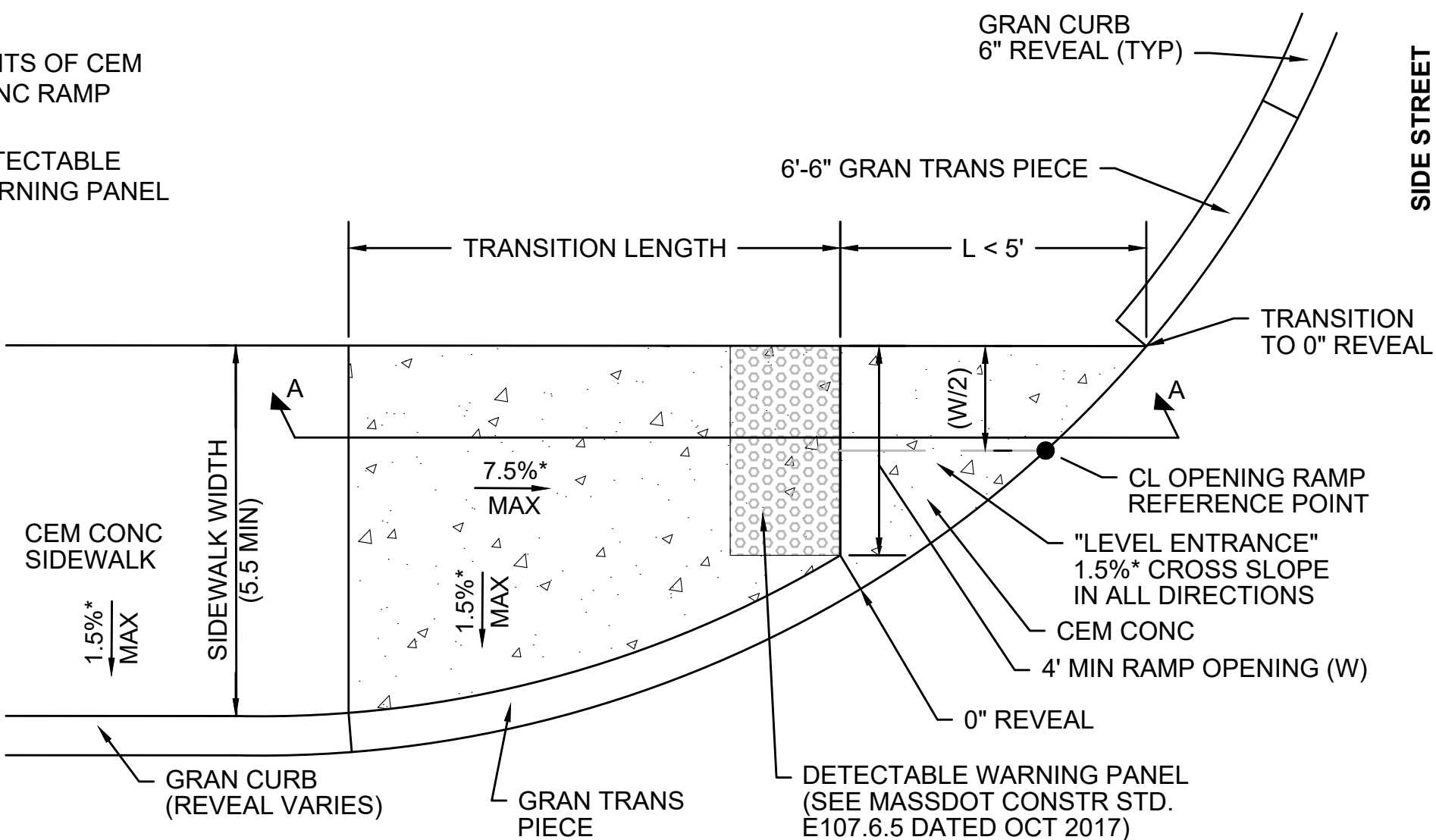
PEDESTRIAN CURB RAMP DATA			
NO.	RAMP OPENING	SIDEWALK WIDTH	COMMENTS
5	STA 6+10±, 14'± RT	5'	HIGH SIDE TRANSITION LENGTH TO BE DETERMINED IN THE FIELD BY THE TOWN OF MAYNARD FIELD REP
6	STA 6+30±, 13± RT	5'-6"	HIGH SIDE TRANSITION LENGTH TO BE DETERMINED IN THE FIELD BY THE TOWN OF MAYNARD FIELD REP
11	STA 10+25±, 15'± RT	5'-6"	HIGH SIDE TRANSITION LENGTH TO BE DETERMINED IN THE FIELD BY THE TOWN OF MAYNARD FIELD REP

NOTE: TOLERANCE FOR CONSTRUCTION ± 0.5%



LEGEND

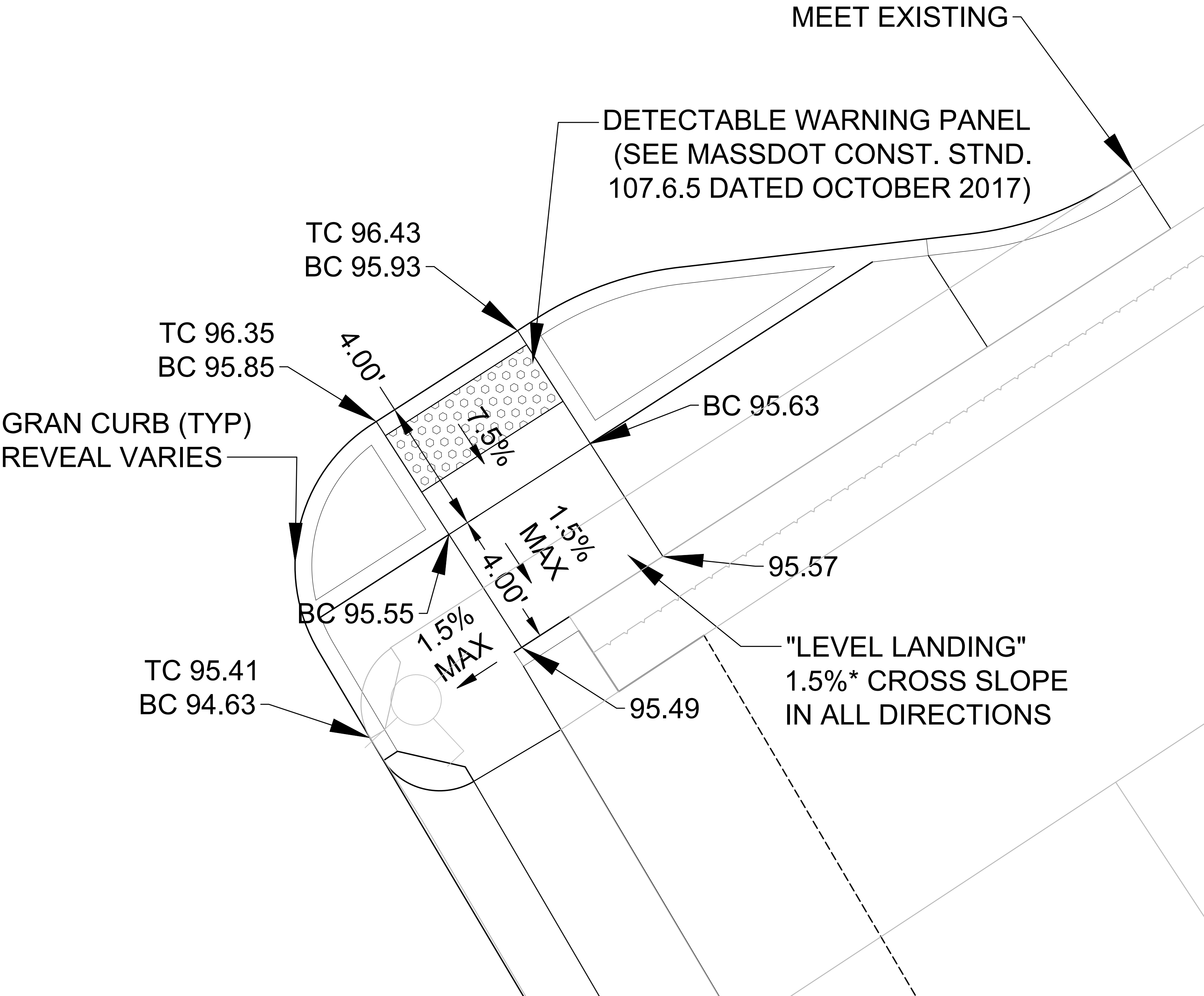
- LIMITS OF CEM CONC RAMP
- DETECTABLE WARNING PANEL



*TOLERANCE FOR CONSTRUCTION ±0.5%

PEDESTRIAN CURB RAMP - 'L' IS LESS THAN 5'

SCALE: NTS

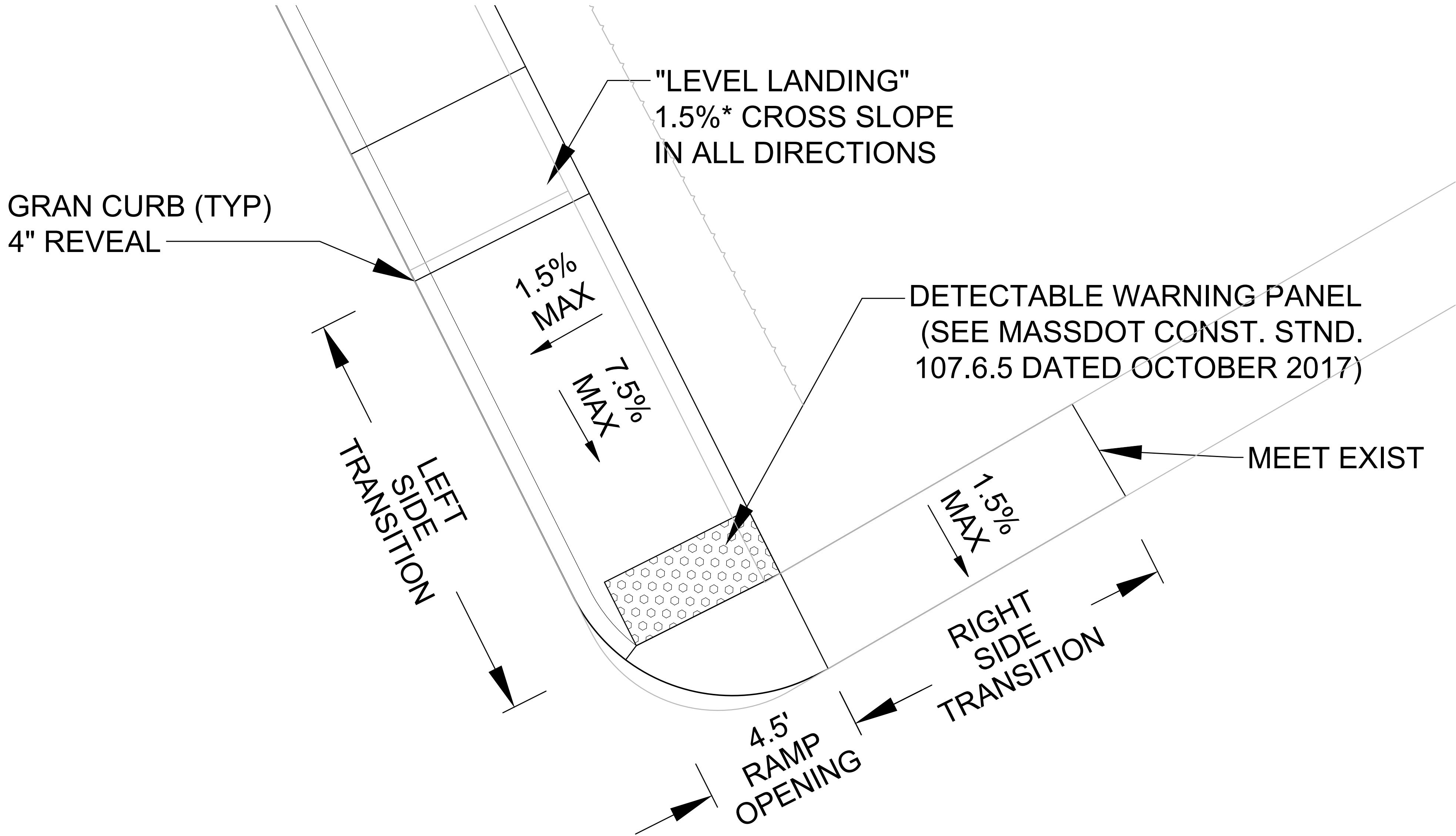


PEDESTRIAN CURB RAMP #1 DETAIL

ROADWAY PROFILE GRADE	* HIGH SIDE TRASITION LENGTH
%	ENGLISH UNITS
=0%	6'-6"
>0% TO 1%	7'-8"
>1% TO 2%	9'-0"
>2% TO 3%	11'-0"
>3% TO 4%	14'-0"
>4% TO 5%	15'-0" MAX

PEDESTRIAN CURB RAMP DATA			
NO.	RAMP OPENING	SIDEWALK WIDTH	COMMENTS
2	STA 3+48±, 17'± RT	3'	HIGH SIDE TRANSITION LENGTH TO BE DETERMINED IN THE FIELD BY THE TOWN OF MAYNARD FIELD REP

NOTE: TOLERANCE FOR CONSTRUCTION ± 0.5%



PEDESTRIAN CURB RAMP #2 DETAIL