PEDESTRIAN IMPROVEMENTS

POND STREET & OAK STREET TITLE SHEET & INDEX SHEET 1 OF 11

PLAN OF

POND STREET AND OAK STREET

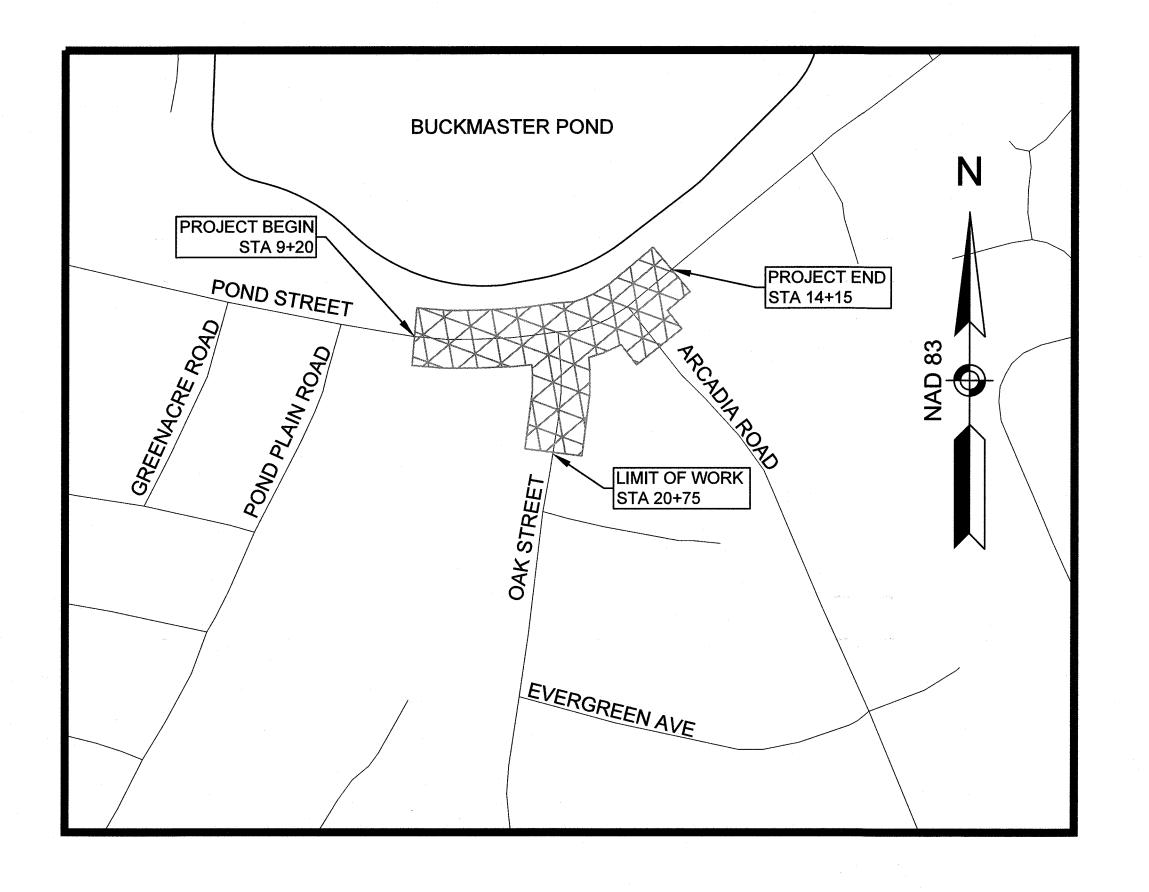
IN THE TOWN OF

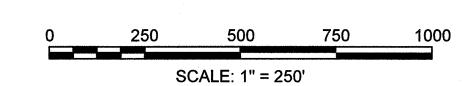
WESTWOOD NORFOLK COUNTY

THESE PLANS ARE SUPPLEMENTED BY THE MASSDOT 2017 CONSTRUCTION STANDARD DETAILS, THE MASSDOT 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

INDEX

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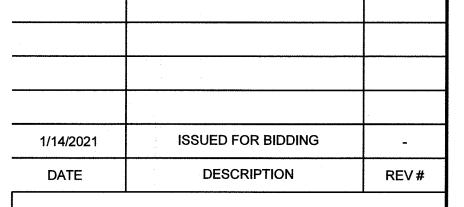


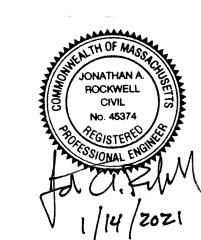


TOTAL LENGTH OF PROJECT = 540 FEET = 0.102 MILES POND STREET = 415 FEET = 0.079 MILES OAK STREET = 125 FEET = 0.024 MILES

DESIGN DESIGNATION

	OAK STREET	POND STREET
DESIGN SPEED	35 MPH	35 MPH
ADT (2019)	6,150 VPD	10,420 VPD
ADT (2029)	6,800 VPD	11,510 VPD
K	9.4%	9.0%
D	67.0% SB	67.0% WB
T (PEAK HOUR)	1.7%	2.0%
T (AVERAGE DAY)	1.3%	1.4%
DHV	640 VPH	1035 VPH
DDHV	430 VPH	695 VPH
FUNCTIONAL CLASSIFICATION	N URBAN COLLECTOR	URBAN COLLECTO







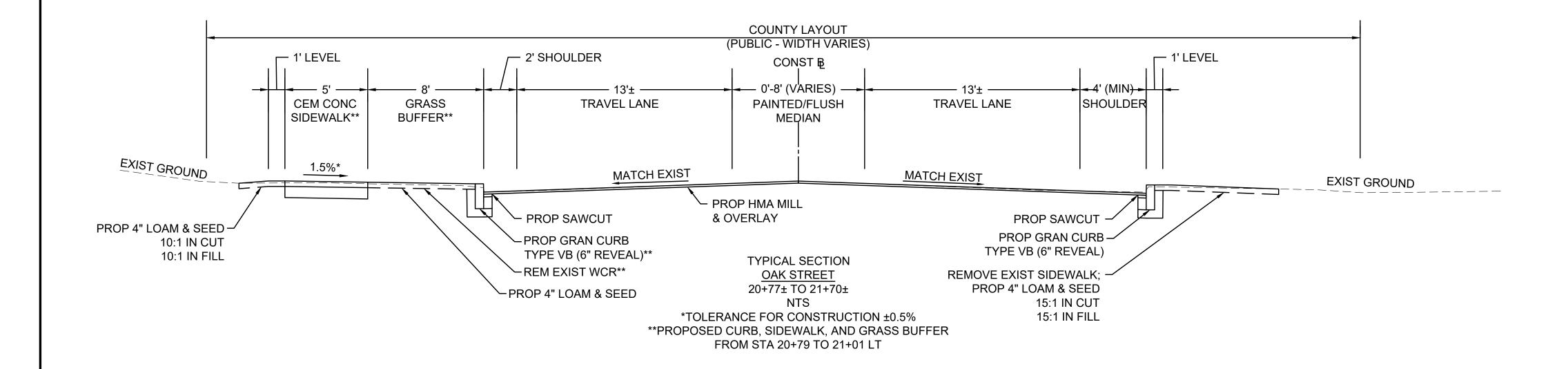
Andover, MA 01810 2nd Floor

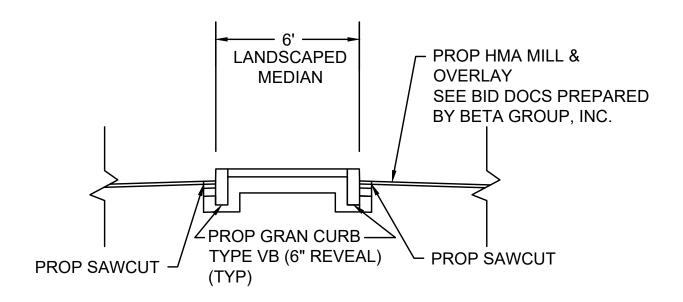
2nd Floor PO Box 249
Worcester, MA 01608 Hampton, NH 03842
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DESIGNED BY LAK	CHECKED BY LSA	DATE 01/08/2021
DRAWN BY LAK	APPROVED BY JAR	PROJECT NO. T0642.04

GENERAL SYMBOLS			TRAFFIC SYMBOLS	ABBREVIATION	ONS	WESTWOOD		
EXISTING	PROPOSED	DESCRIPTION	EXISTING PROPOSED DESCRIPTION	GENERAL		_	POND STREET & OAK STREET	
☐ JB	⊟ JB	JERSEY BARRIER	CONTROLLER CABINET, FOUNDATION	AADT	ANNUAL AVERAGE DAILY TRAFFIC		LEGEND & ABBREVIATIONS SHEET 2 OF 11	
Ш ⊕ Ш СВ	■ CB	CATCH BASIN		ABAN	ABANDON		SHEET 2 OF TT	
		CATCH BASIN CURB INLET	CONTROLLER CABINET, FOUNDATION, CONC. PAD	ADDDOX	ADJUST			
		FLAG POLE	MAST ARM FOUNDATION (SCALE OF BLOCK = DIAMETER IN INCHES)	APPROX. A.C.	APPROXIMATE ASBESTOS CEMENT			
G GP	G GP	GAS PUMP	——— MAST ARM (LENGTH NOTED)	ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE			
□ MB	□ MB □	MAIL BOX POST SQUARE	■ EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT	BIT.	BITUMINOUS	ABBREVIAT	TIONS (cont.)	
0	0	POST CIRCULAR		ВС	BOTTOM OF CURB	GENERAL	=	
⊕ WELL	⊕ WELL	WELL	+→ VEHICULAR SIGNAL HEAD	BD.	BOUND	PRC	POINT OF REVERSE CURVATURE	
- EHH	EHH	ELECTRIC HANDHOLE	—□ PEDESTRIAN SIGNAL HEAD	BL	BASELINE	PROJ	PROJECT	
	0	FENCE GATE POST	→ MAST ARM OR TS POLE MOUNTED SIGN	BLDG BM	BUILDING BENCHMARK	PROP PSB	PROPOSED PLANTABLE SOIL BORROW	
O GG	O GG	GAS GATE	□ VIDEO DETECTION CAMERA	BO	BY OTHERS	PT	POINT OF TANGENCY	
⊕ BHL # ⊕ MW #	◆ BHL #	BORING HOLE MONITORING WELL		BOS	BOTTOM OF SLOPE	PUE	PERMANENT UTILITY EASEMENT	
TP #	₩ IVIV # ■ TP#	TEST PIT		BR.	BRIDGE	PVC	POINT OF VERTICAL CURVATURE	
<u> </u>	2 ,	HYDRANT		СВ	CATCH BASIN	PVI	POINT OF VERTICAL INTERSECTION	
*	*	LIGHT POLE	PEDESTRIAN PUSH BUTTON	CBCI	CATCH BASIN WITH CURB INLET	PVT	POINT OF VERTICAL TANGENCY	
□ CO.BD.	·	COUNTY BOUND	-IIII YAGI ANTENNA	CC CCB	CEMENT CONCRETE CAPE COD BERM	PVMT R	PAVEMENT RADIUS OF CURVATURE	
		GPS POINT	BICYCLE WIRE LOOP DETECTOR (SIZE AS NOTED)	CCM	CEMENT CONCRETE MASONRY	R&D	REMOVE AND DISPOSE	
©	©	CABLE MANHOLE	$\stackrel{\checkmark}{\longleftrightarrow}$	CEM	CEMENT	RCP	REINFORCED CONCRETE PIPE	
(D)	(b)	DRAINAGE MANHOLE	WIRE LOOP DETECTOR (SIZE AND TYPE NOTED)	CI	CURB INLET	RD	ROAD	
(E)	(E)	ELECTRIC MANHOLE GAS MANHOLE	TRAFFIC SIGN (1 POST)	CIP	CAST IRON PIPE	RDWY	ROADWAY	
(M)	(M)	MISC MANHOLE	TRAFFIC SIGN (2 POST)	CLF	CHAIN LINK FENCE	REM	REMOVE	
(S)	S	SEWER MANHOLE	□ ■ PULL BOX 12"x12" (OR AS NOTED)	CL	CENTERLINE	RET	RETAIN DETAINING WALL	
T	(T)	TELEPHONE MANHOLE		CMP CSP	CORRUGATED METAL PIPE	RET WALL ROW	RETAINING WALL RIGHT OF WAY	
W	w	WATER MANHOLE	□ ■ ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)	CSP CO.	CORRUGATED STEEL PIPE COUNTY	ROW RR	RIGHT OF WAY RAILROAD	
MHB	■ MHB	MASSACHUSETTS HIGHWAY BOUND	====== TRAFFIC SIGNAL CONDUIT	CO.	CONCRETE	R&R	REMOVE AND RESET	
- MON		MONUMENT		CONT	CONTINUOUS	R&S	REMOVE AND STACK	
□ SB		STONE BOUND		CONST	CONSTRUCTION	RT	RIGHT	
■ TB		TOWN OR CITY BOUND		CR GR	CROWN GRADE	SB	STONE BOUND	
△ - TPL or GUY	→ TPL or GUY	TRAVERSE OR TRIANGULATION STATION TROLLEY POLE OR GUY POLE		DHV	DESIGN HOURLY VOLUME	SHLD	SHOULDER	
O HTP	· IFLUIGUY	TRANSMISSION POLE		DI	DROP INLET	SMH ST	SEWER MANHOLE STREET	
-6- UFB	- 占 - UFB	UTILITY POLE W/ FIREBOX		DIA	DIAMETER DUCTUE IRON DIRE	STA	STATION	
-∳- UPDL	-∳- UPDL	UTILITY POLE WITH DOUBLE LIGHT		DIP DSCB	DUCTILE IRON PIPE DEEP SUMP CATCH BASIN	SSD	STOPPING SIGHT DISTANCE	
-5- ULT	-& ULT	UTILITY POLE W / 1 LIGHT		DW	STEADY DON'T WALK - PORTLAND ORANGE	SHLO	STATE HIGHWAY LAYOUT LINE	
-∽ UPL	-⊶ UPL	UTILITY POLE		DWY	DRIVEWAY	SW	SIDEWALK	
0		BUSH		ELEV (or EL.)		T	TANGENT DISTANCE OF CURVE/TRUCK %	
•SIZE & TYPE		TREE		EMB	EMBANKMENT	TAN	TANGENT	
O AL		STUMP SWAMP / MARSH		EOP	EDGE OF PAVEMENT	TEMP TC	TEMPORARY TOP OF CURB	
• WG	• WG	WATER GATE		EXIST (or EX)		TOS	TOP OF CORB TOP OF SLOPE	
• WSO	• WSO	WATER GATE WATER SHUTOFF/CURB STOP		EXC F&C	EXCAVATION FRAME AND COVER	TS	TRAFFIC SIGNAL	
• PM	• PM	PARKING METER		F&G	FRAME AND GOVER FRAME AND GRATE	TYP	TYPICAL	
		— OVERHEAD CABLE/WIRE		FDN.	FOUNDATION	UP	UTILITY POLE	
				FDP	FULL DEPTH PAVEMENT	VAR	VARIES	
		— CONTOURS (ON-THE-GROUND SURVEY DATA)		FES	FLARED END SECTION	VERT	VERTICAL CURVE	
700		— CONTOURS (PHOTOGRAMMETRIC DATA)	PAVEMENT MARKINGS SYMBOLS	FLDSTN	FIELDSTONE	VC WCR	VERTICAL CURVE WHEEL CHAIR RAMP	
		 UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER) UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER) 		GAR	GARAGE	WG	WATER GATE	
		— UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)	EXISTING PROPOSED DESCRIPTION	GC GD	GRANITE CURB GROUND	WIP	WROUGHT IRON PIPE	
		— UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)	PAVEMENT ARROW - WHITE	GG	GAS GATE	WM	WATER METER/WATER MAIN	
		— UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)	(NL)Y	GI	GUTTER INLET	X-SECT	CROSS SECTION	
-		— UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)		GIP	GALVANIZED IRON PIPE			
		> BALANCED STONE WALL	——————————————————————————————————————	GRAN	GRANITE			
		— GUARD RAIL - STEEL POSTS	CROSSWALK - 12" WIDE	GRAV	GRAVEL			
		— GUARD RAIL - WOOD POSTS	SOLID WHITE LINE	GRD	GUARD	TRAFFICSI	GNAL ABBREVIATIONS	
		— CHAIN LINK OR METAL FENCE — WOOD FENCE	——————————————————————————————————————	HDW HMA	HEADWALL HOT MIX ASPHALT	CAB.	CABINET	
		— WOOD FENCE		HOR	HORIZONTAL	CAB. CCVE	CABINET CLOSED CIRCUIT VIDEO EQUIPMENT	
	\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau\)\(\tau			HYD	HYDRANT	DW	STEADY DON'T WALK	
		— EDGE OF PAVEMENT	BYL BROKEN YELLOW LINE	IH	IRRIGATION HEAD	FDW	FLASHING DON'T WALK	
			DWL DOTTED WHITE LINE	INV	INVERT	FR	FLASHING CIRCULAR RED	
		— TOP OR BOTTOM OF SLOPE	DOTTED YELLOW LINE	JCT	JUNCTION	FRL	FLASHING RED LEFT ARROW	
			- — — DOLIED IELEOVV EINE	L	LENGTH OF CURVE	FRR	FLASHING RED RIGHT ARROW	
-		— LIMIT OF EDGE OF MICROMILLING AND OVERLAY	DWI FY BOTTED MY UTE 1 WE EXTENDED	. –	LEACH BASIN	FY	FLASHING CIRCULAR YELLOW	
		BANK OF RIVER OR STREAM	DWLEx DOTTED WHITE LINE EXTENSION	LB		EVI		
<u>-</u>		BANK OF RIVER OR STREAM BORDER OF WETLAND	DOTTED WHITE LINE EXTENSION DOTTED YELLOW LINE EXTENSION	LOG	LIMIT OF GRADING	FYL FYR	FLASHING YELLOW LEFT ARROW FLASHING YELLOW RIGHT ARROW	
		BANK OF RIVER OR STREAM BORDER OF WETLAND 100 FT WETLAND BUFFER		LOG LP	LIMIT OF GRADING LIGHT POLE	FYL FYR G	FLASHING YELLOW LEFT ARROW FLASHING YELLOW RIGHT ARROW STEADY CIRCULAR GREEN	
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		BANK OF RIVER OR STREAM BORDER OF WETLAND 100 FT WETLAND BUFFER	<u>DYLEx</u> DOTTED YELLOW LINE EXTENSION	LOG LP L&S	LIMIT OF GRADING LIGHT POLE LOAM & SEED	FYR G GL GR	FLASHING YELLOW RIGHT ARROW STEADY CIRCULAR GREEN STEADY GREEN LEFT ARROW STEADY GREEN RIGHT ARROW	
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TYPICAL SECTION
POND STREET
RAISED MEDIAN DETAIL
10+77± TO 10+97±
NTS

PAVEMENT NOTES

PROPOSED MILL & HOT MIX ASPHALT (HMA) OVERLAY

SURFACE: 2" SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5) OVER 2" PAVEMENT MICROMILLING

PROPOSED CEMENT CONCRETE SIDEWALKS / WHEELCHAIR RAMPS / WALKWAYS / MEDIANS

SURFACE: 4" CEMENT CONCRETE (AIR ENTRAINED, 4000 PSI, 3/4", 610)

BASE: 8" GRAVEL BORROW, TYPE b

PROPOSED HOT MIX ASPHALT SIDEWALK

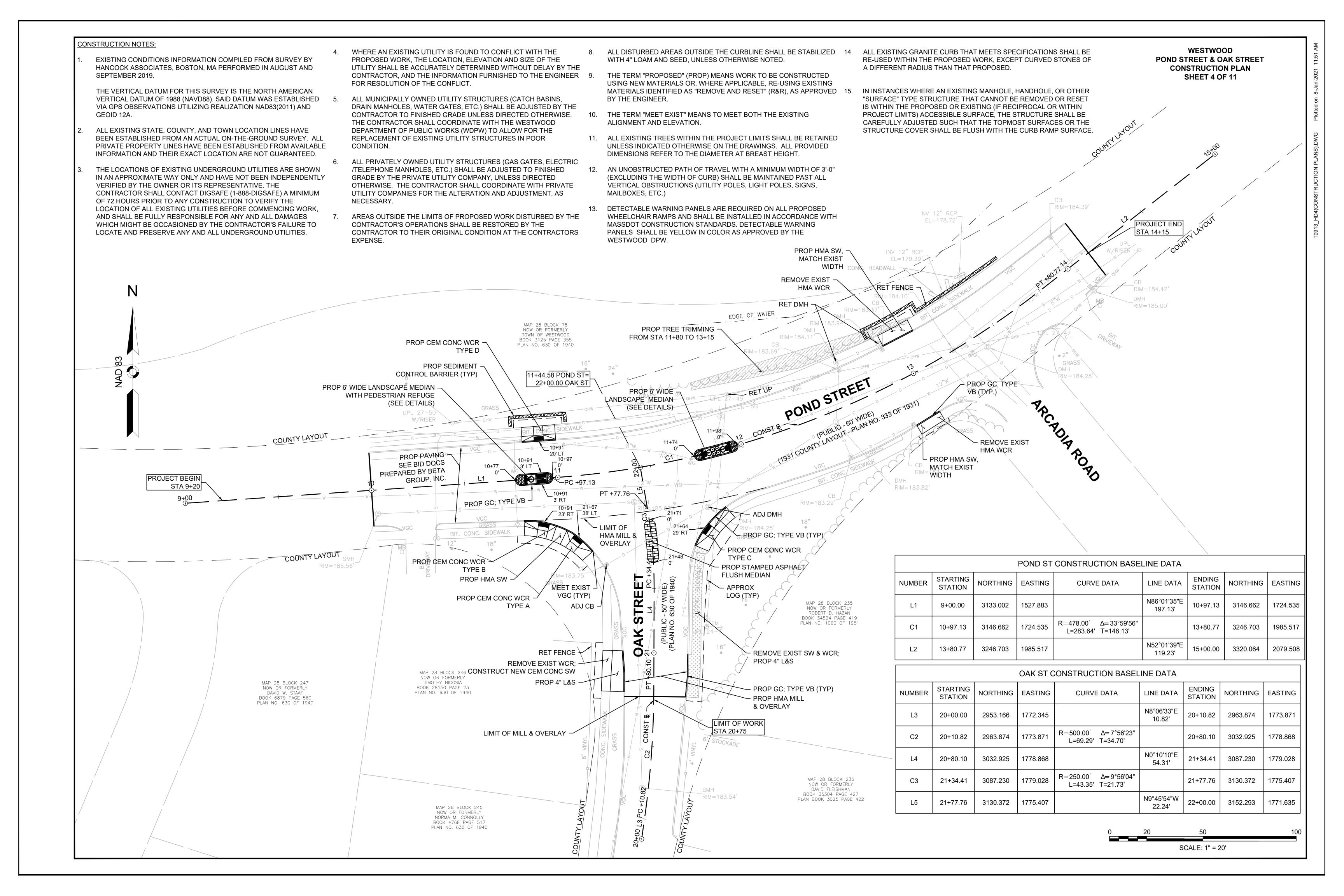
SURFACE: 1¼" SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5) OVER 1¾" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC - 12.5) OVER

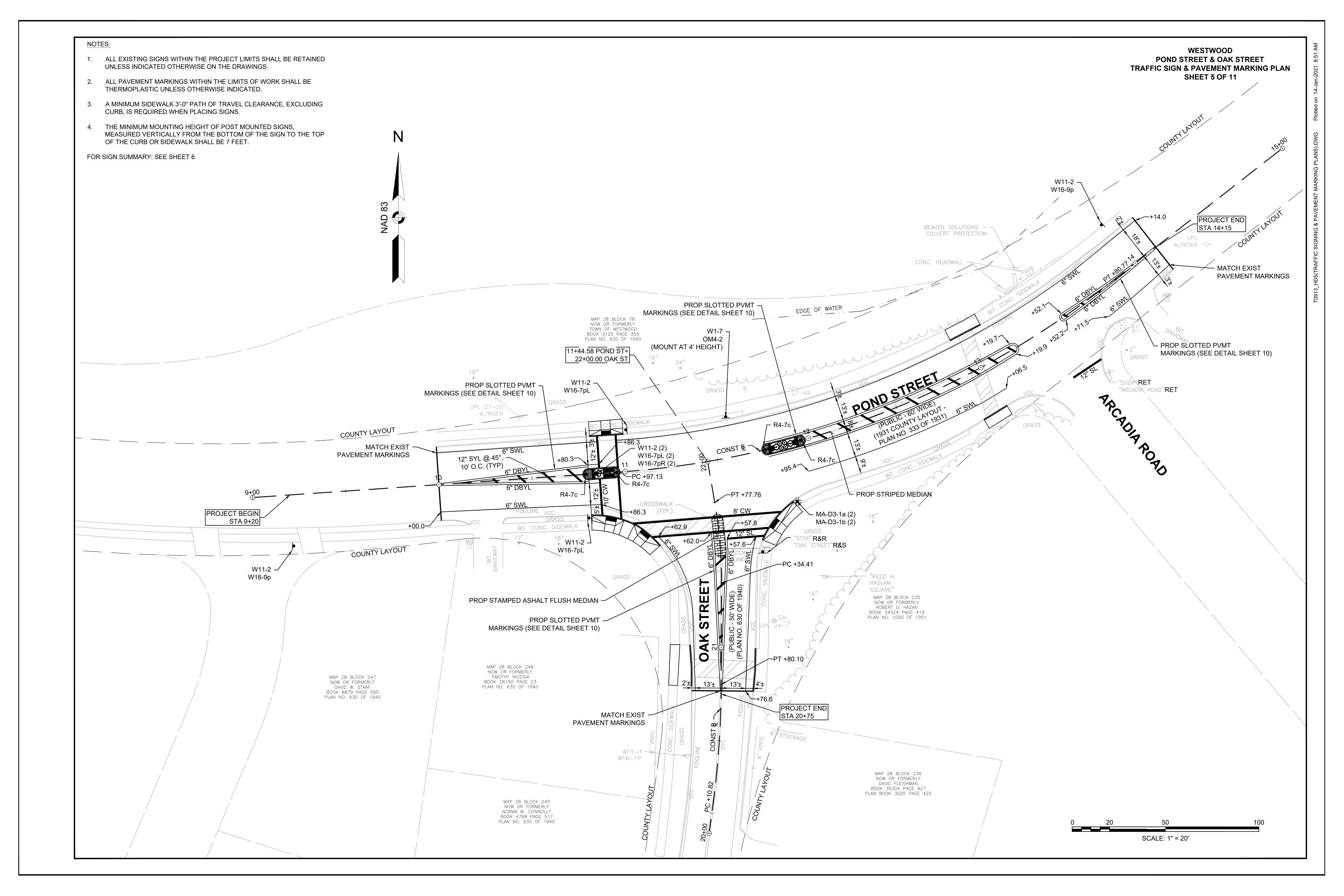
194 SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC - 12.5) OV

BASE: 8" GRAVEL BORROW, TYPE b

GENERAL PAVEMENT NOTES:

- 1. ASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED BETWEEN ALL ASPHALT SURFACES AND SAWCUT JOINTS BEFORE PAVING. HMA JOINT SEALANT SHALL BE APPLIED TO ALL COLD JOINTS (LONGITUDINAL AND TRANSVERSE) BEFORE PAVING SURFACE COURSE. ASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED AT A RATE CONSISTENT WITH STANDARD SPECIFICATION 450.43G2. ALL SURFACES SHALL BE CLEAN OF ALL ORGANICS, DEBRIS, AND SAND PRIOR TO PAVING.
- 2. ALL HMA SHALL BE PRODUCED WITH WMA ADDITIVE.
- 3. ALL HMA SHALL BE IN ACCORDANCE WITH SECTION 460.
- 4. ASPHALT EMULSION FOR TACK COAT SHALL BE RS-1H TO RESIST TRACKING OF TACK BY HAUL VEHICLES.
- 5. HMA FOR WALKS AND DRIVEWAYS SHALL BE IN ACCORDANCE WITH SECTION 700.
- ALL GRAVEL BORROW MEETING SPECIFICATION SHALL BE RETAINED IN PLACE, COMPACTED, AND LEVELED AS REQUIRED.





TRAFFIC SIGN SUMMARY													
IDENTIFICATION NUMBER	SIZE OF SIGN (in)		TEXT DIMENSIONS (in)			NUMBER OF SIGNS	COLOR			SIZE AND NUMBER OF POSTS	UNIT AREA	TOTAL AREA (SF)	
	WIDTH	HEIGHT	LEGEND	LETTER HEIGHT	VERTICA SPACIN		REQUIRED	BACK- GROUND	LEGEND	BORDER	REQUIRED	(SF)	ALLA (OI)
OM4-2	18	18			1		1	BLACK	RED	RED	MOUNT W/ W1-7	2.25	2.25
R4-7c	18	30	7				4	WHITE	BLACK	BLACK	4	3.75	15.00
W1-7	48	24					1	YELLOW	BLACK	BLACK	1	8.00	8.00
W11-2	30	30					6	FL. YELLOW- GREEN	BLACK	BLACK	5	6.25	37.50
W16-9p	24	12	AHEAD				2	FL. YELLOW- GREEN	BLACK	BLACK	MOUNT W/ W11-2	2.00	4.00
W16-7pL	24	12					4	FL. YELLOW- GREEN	BLACK	BLACK	MOUNT W/ W11-2	2.00	8.00
W16-7pR	24	12	1			2	FL. YELLOW- GREEN	BLACK	BLACK	MOUNT W/ W11-2	2.00	4.00	
MA-D3-1a	36	12	SEE RIGHT	6C / 4C	3 3	-	2	GREEN	WHITE	WHITE	2	3.00	6.00
MA-D3-1b	33	12	SEE RIGHT	6C / 4C	3 3	-	2	GREEN	WHITE	WHITE	MOUNT W/ MA-D3-1a	2.75	5.50

NOTES:

- 1.) SEE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS FOR TEXT AND LEGEND DIMENSIONS.
- 2. THE MINIMUM MOUNTING HEIGHT OF POST-MOUNTED SIGNS, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE TOP OF CURB OR SIDEWALK, OR THE ELEVATION OF THE NEAR EDGE OF TRAVEL WAY, SHALL BE 7 FEET UNLESS OTHERWISE SPECIFIED.
- 3. A MINIMUM OF 3'-0" PATH OF TRAVEL CLEARANCE, EXCLUDING CURB, IS REQUIRED WHEN PLACING SIGNS.





NOTES:

- 1. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
- 2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD
- 3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- 4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- 5. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN THE "MANUAL FOR ASSESSING SAFETY HARDWARE"
- 6. CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.
- 7. THE FIRST TEN PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE A SEQUENTIAL WARNING LIGHTS.
- 8. THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
- 9. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- 10. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN
- 11. MINIMUM LANE WIDTH IS TO BE 10 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
- 12. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.

LEGEND:

ARROW BOARD

NOTES:

REFLECTORIZED PLASTIC DRUM OR 36" CONE

POLICE/FLAGGER DETAIL TYPE III BARRICADE

CHANGEABLE MESSAGE SIGN

DIRECTION OF TRAFFIC IMPACT ATTENUATOR MEDIAN BARRIER

MEDIAN BARRIER WITH WARNING LIGHTS

WORK VEHICLE

TRUCK MOUNTED ATTENUATOR

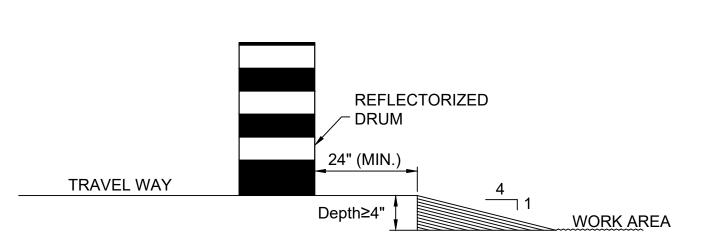
→ TRAFFIC OR PEDESTRIAN SIGNAL

SIGN

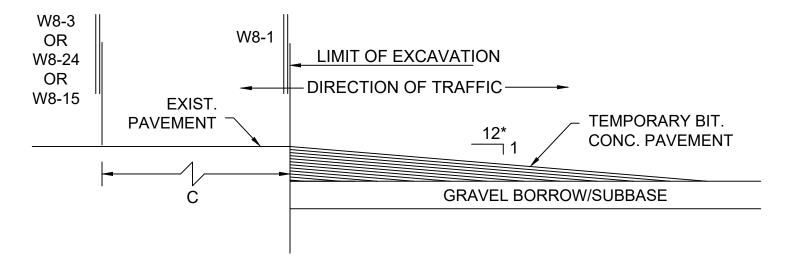
SUGGESTED WORK ZONE WARNING SIGN SPACING

WORK ZONE

ROAD TYPE	DISTANCE BETWEEN SIGNS (FEET)						
NOAD TIFE	А	В	С				
LOCAL OR LOW VOLUME ROADWAYS	350	350	350				
MOST OTHER ROADWAYS	500	500	500				
FREEWAYS AND EXPRESSWAYS	1,000	1,500	2,640				



LATERAL DROP-OFF DETAIL **NOT TO SCALE**



LONGITUDINAL DROP-OFF DETAIL

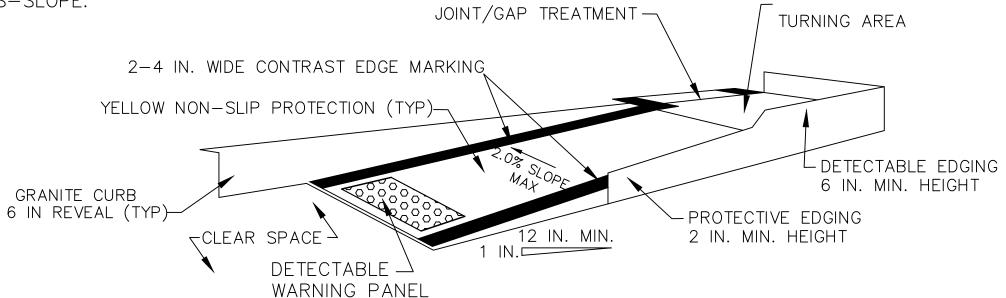
NOT TO SCALE * - INCREASE SLOPE RATIO

FOR HIGHER SPEEDS

- 1. CURB RAMPS SHALL BE 60 IN. MINIMUM WIDTH WITH A FIRM, STABLE AND NON-SLIP SURFACE
- 2. PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL 7. WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOP STEEPER THAN 1:3 (33%) PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN. OR MORE
- 3. DETECTABLE EDGING WITH 6 IN. 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.

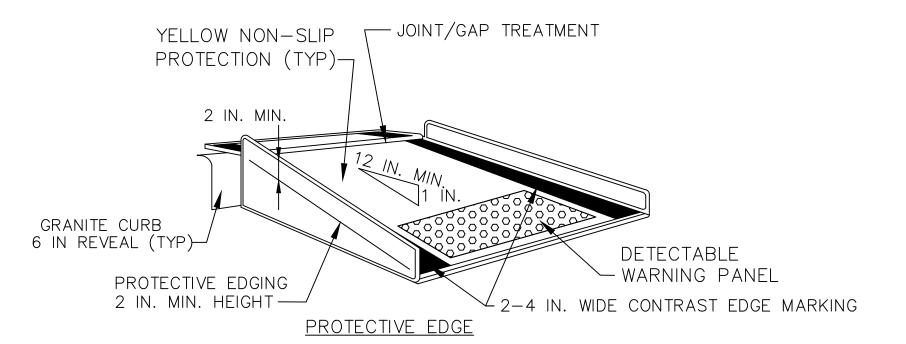
- 6. CLEAR SPACE OF 48x48 IN. MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- MINIMAL RESTRICTION.
- 8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5 IN. WIDTH.
- 9. CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 IN. HIGH, AND BEVELED AT 1:2 BETWEEN 0.25 IN. AND 0.5 IN. 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.

60x60 IN. MIN.

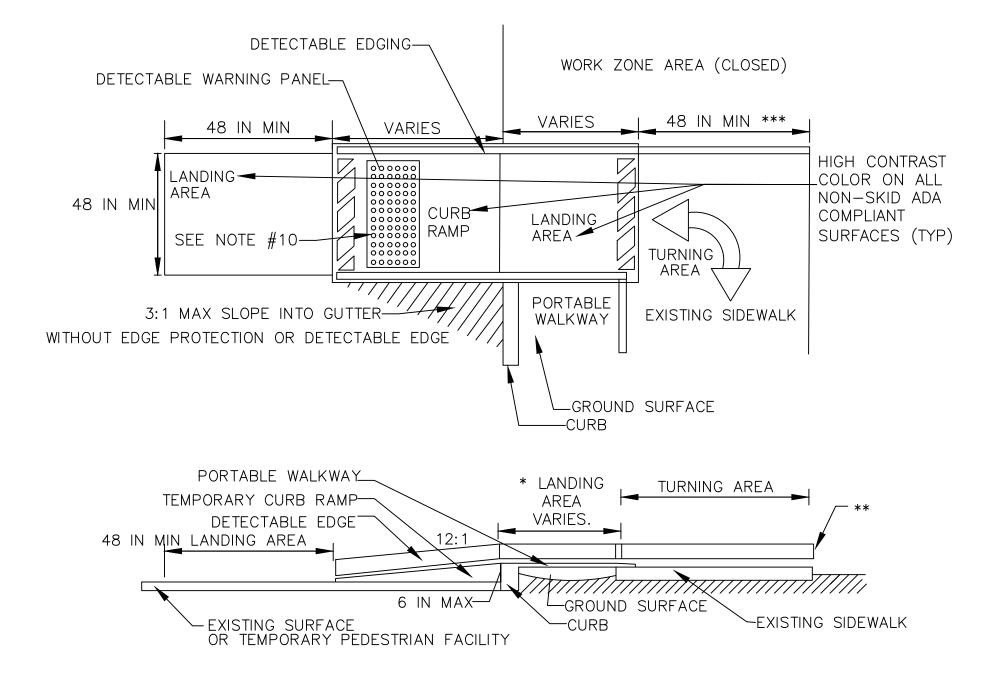


PEDESTRIAN TYPICAL DETAILS

TEMPORARY CURB RAMP-PARALLEL TO CURB



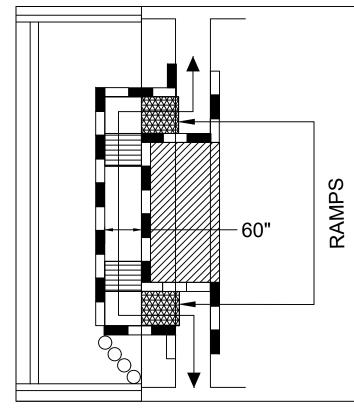
TEMPORARY CURB RAMP-PERPENDICULAR TO CURB



- * -LANDING AREA USED TO OVERLAP NON-ADA COMPLIANT SURFACES.
- ** -DETECTABLE EDGE REMOVED IF A CONTINUOUS SIDEWALK.
- *** -60 IN. IF AN OBSTRUCTION IS AT BACK OF SIDEWALK

TEMPORARY CURB RAMP-TYPE 2

48" MIN.



- WHEN EXISTING PEDESTRIAN FACILITIES ARE DISRUPTED, CLOSED, OR RELOCATED IN A TTC ZONE, TEMPORARY FACILITIES SHALL BE PROVIDED AND THEY SHALL BE DETECTABLE AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY.
- A PEDESTRIAN CHANNELIZING DEVICE THAT IS DETECTABLE BY A PERSON WITH A VISUAL DISABILITY TRAVELING WITH THE AID OF A LONG CANE SHALL BE PLACED ACROSS THE FULL WIDTH OF THE CLOSED SIDEWALK.
- WHEN USED, TEMPORARY RAMPS SHALL COMPLY WITH AMERICANS WITH DISABILITIES ACT (SEE TEMPORARY CURB RAMP DETAILS)
- THE ALTERNATE PATHWAY SHOULD HAVE A SMOOTH CONTINUOUS HARD SURFACE FOR THE ENTIRE LENGTH OF THE TEMPORARY PEDESTRIAN FACILITY.
- THE PROTECTIVE REQUIREMENTS OF A TTC SITUATION HAVE PRIORITY IN DETERMINING THE NEED FOR TEMPORARY TRAFFIC BARRIERS AND THEIR USE IN THIS SITUATION SHOULD BE BASED ON ENGINEERING JUDGMENT.
- AUDIBLE INFORMATION DEVICES SHOULD BE CONSIDERED WHERE MIDBLOCK CLOSINGS AND CHANGED CROSSWALK AREAS CAUSE INADEQUATE COMMUNICATION TO BE PROVIDED TO PEDESTRIANS WHO HAVE VISUAL DISABILITIES.

AUDIBLE DEVICES

FOR LONG TERM SIDEWALK CLOSURES (AT A MINIMUM OVERNIGHT) A FORM OF SPEECH MESSAGING FOR PEDESTRIANS WITH VISUAL DISABILITIES SHALL BE PROVIDED. AUDIBLE INFORMATION DEVICES SUCH AS DETECTABLE BARRIERS OR BARRICADES AND OTHER PASSIVE PEDESTRIAN ACTIVATION (MOTION ACTIVATED) DEVICES SHOULD BE CONSIDERED FOR THESE CASES. THESE AUDIBLE DEVICES CAN BE MOUNTABLE OR STAND ALONE.

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

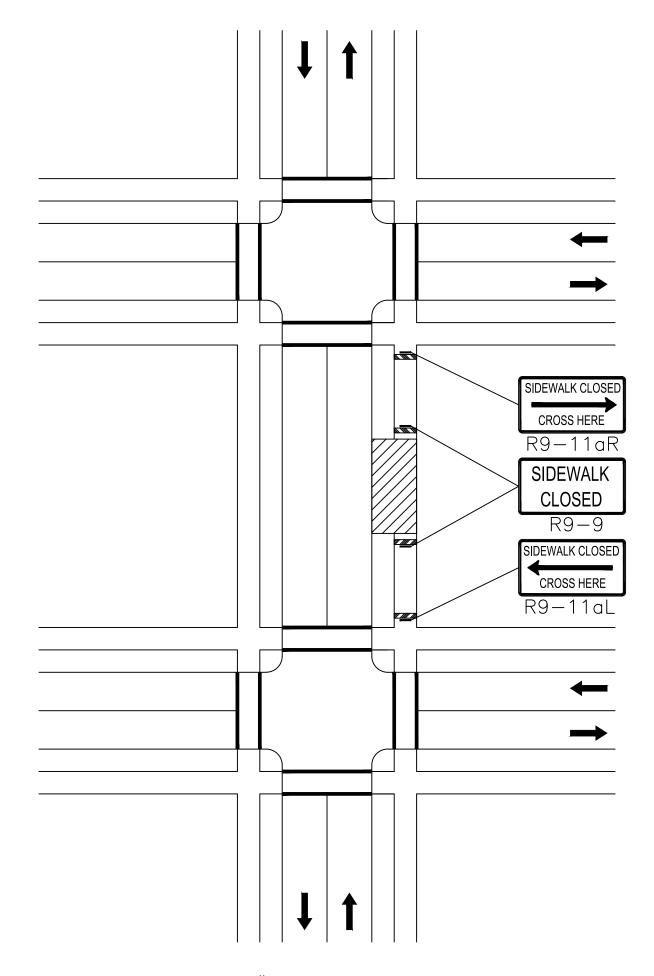
TYPE OF TAPER	TAPER LENGTH (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FT MIN. 100 FT MAX.
DOWNSTREAM TAPER	50 FT MIN. 100 FT MAX. PER LANE

FORMULAS FOR DETERMINING TAPER LENGTHS

SPEED LIMIT (S)	TAPER LENGTH (L) FEET
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR MORE	L= WS

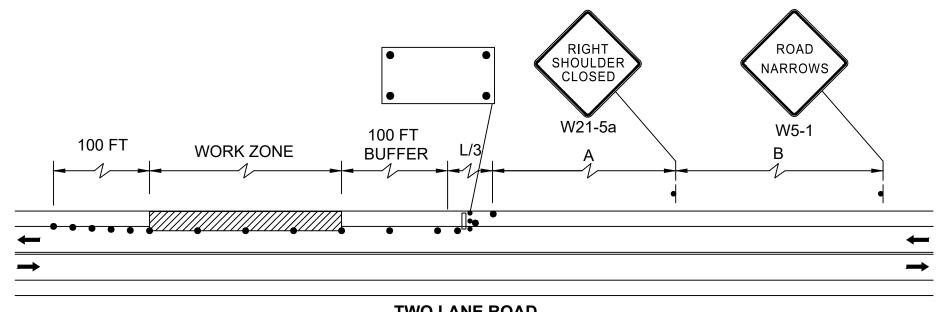
WHERE: L = TAPER LENGTH IN FEET

- W = WIDTH OF OFFSET IN FEET
- S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH

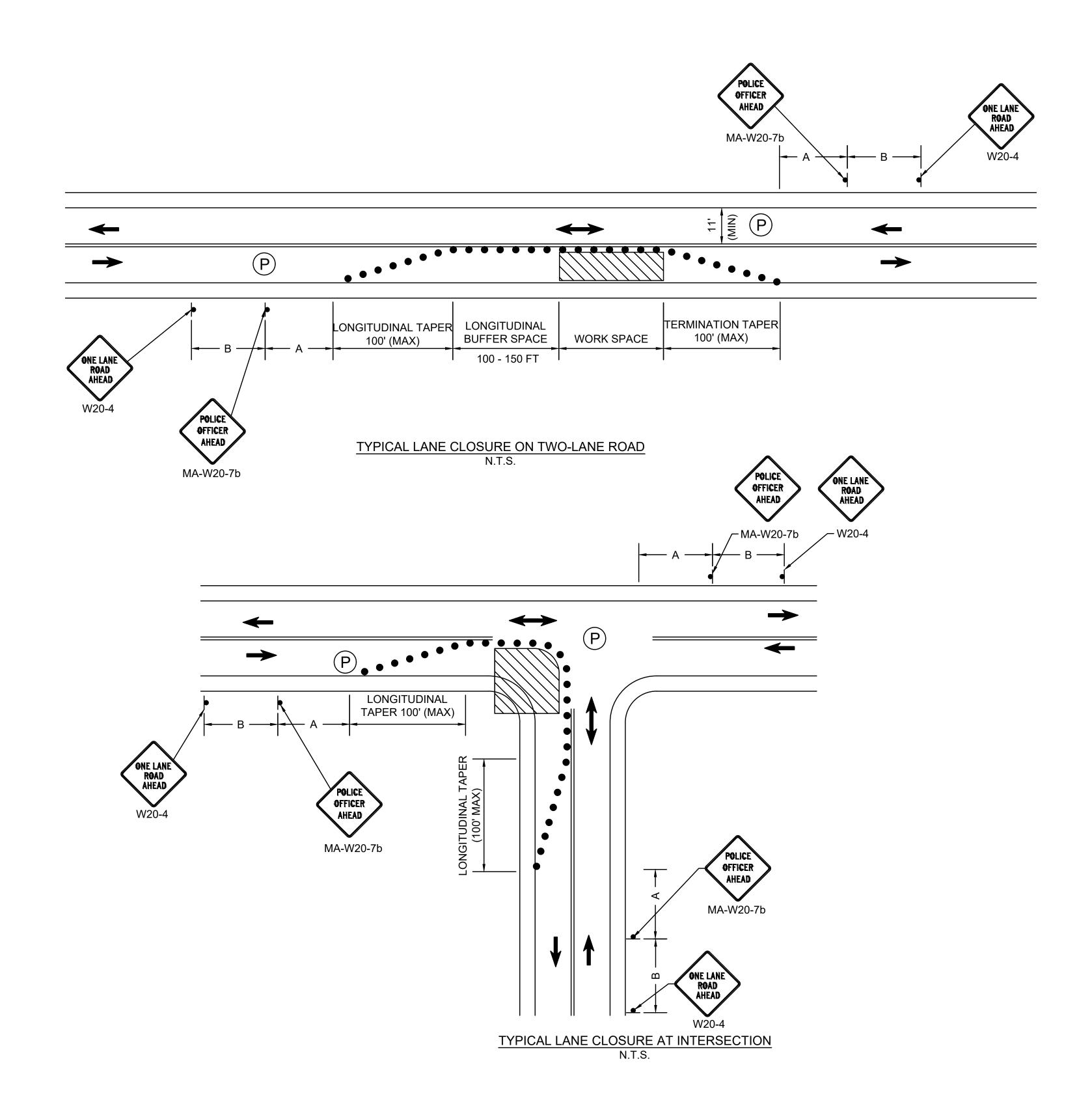


IF A MINIMUM WIDTH OF 48" OF SOLID SMOOTH UNOBSTRUCTED SURFACE REMAINS ALONG THE WORK AREA THEN THE DETAIL CAN BE DISREGARDED. DELINEATION OF THE WORK AREA WILL STILL BE REQUIRED. AII PEDESTRIAN DETOUR ROUTES SHALL BE ADA/MAAB COMPLIANT IN THEIR ENTIRETY.

SIDEWALK CLOSED WITHOUT DETOUR



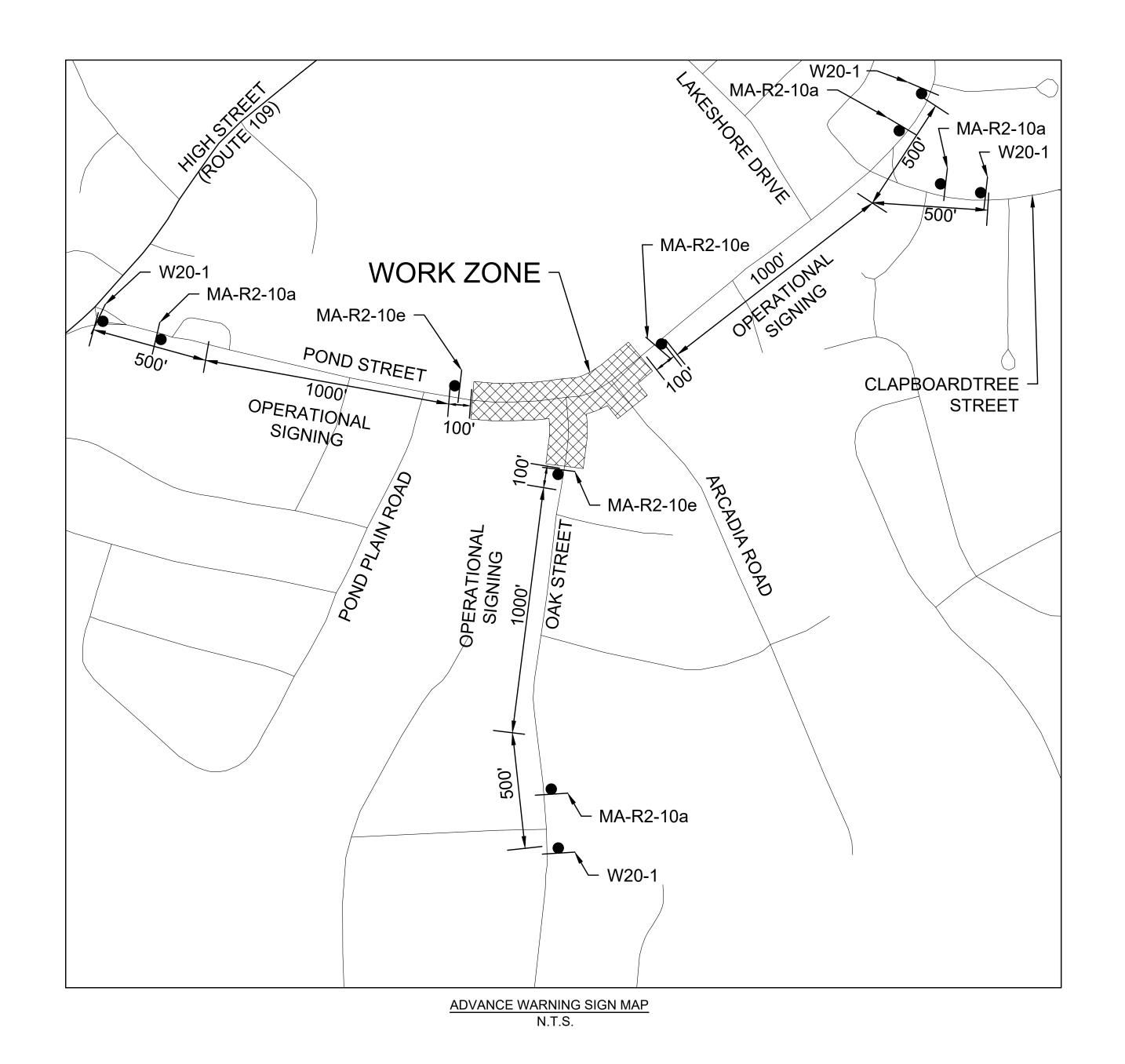
TWO LANE ROAD
SHOULDER CLOSED



NOTES:

- DRUM SPACING FOR LONGITUDINAL TAPER SECTION SHALL NOT EXCEED A DISTANCE IN FEET EQUAL TO THE POSTED SPEED.
- 2. DRUM SPACING FOR TANGENT SECTION SHALL NOT EXCEED A DISTANCE IN FEET EQUAL TO TWICE THE POSTED
- 3. DRUM SPACING FOR TERMINATION TAPER SECTION SHALL NOT EXCEED 20 FEET.

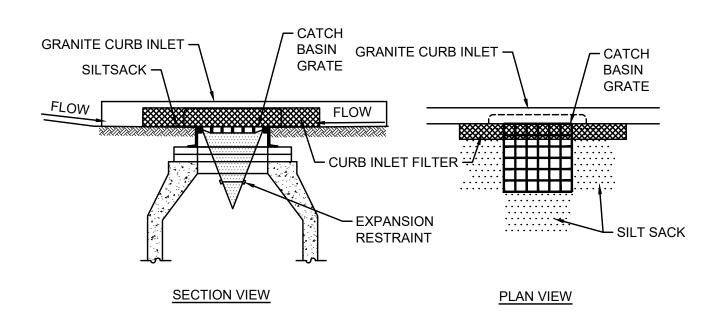
	TRAFFIC SIGN SUMMARY											
IDENTIFICATION	SIZE OF	SIGN (in)		TEXT DIME	NSIONS (in)	NUMBER OF SIGNS		COLOR		UNIT AREA	TOTAL AREA	
NUMBER	WIDTH	HEIGHT	LEGEND	LETTER VERT HEIGHT SPACE	ICAL ARROW RTE. MKR	REQUIRED	BACK- GROUND	LEGEND	BORDER	(SF)	(SF)	
MA-R2-10a	48	36	WORK ZONES SPEEDING FINES DOUBLED	MASSDOT STANDARD SIGN		4	FL. ORANGE WHITE	BLACK BLACK	BLACK BLACK	12.00	48.00	
MA-R2-10e	36	48	END ROAD WORK DOUBLE FINES END	•		3	FL. ORANGE WHITE	BLACK BLACK	BLACK BLACK	12.00	36.00	
R9-9	24	12	SIDEWALK CLOSED	SEE 2009	MUTCD	2	WHITE	BLACK	BLACK	2.00	4.00	
R9-11aL	24	12	SIDEWALK CLOSED CROSS HERE			1	WHITE	BLACK	BLACK	2.00	2.00	
R9-11aR	24	12	SIDEWALK CLOSED CROSS HERE			1	WHITE	BLACK	BLACK	2.00	2.00	
W5-1	36	36	ROAD			1	FL. ORANGE	BLACK	BLACK	9.00	9.00	
W8-1	36	36	BUMP			2	FL. ORANGE	BLACK	BLACK	9.00	18.00	
W8-15	36	36	GROOVED PAVEMENT			2	FL. ORANGE	BLACK	BLACK	9.00	18.00	
W20-1	36	36	ROAD WORK AHEAD			4	FL. ORANGE	BLACK	BLACK	9.00	36.00	
W20-4	36	36	ONE LANE ROAD AHEAD	,		3	FL. ORANGE	BLACK	BLACK	9.00	27.00	
MA-W20-7b	36	36	POLICE OFFICER AHEAD	MASSDOT STA	ANDARD SIGN	3	FL. ORANGE	BLACK	BLACK	9.00	27.00	
W21-5a	36	36	RIGHT SHOULDER CLOSED	SEE 2009	MUTCD	1	FL. ORANGE	BLACK	BLACK	9.00	9.00	



NOTES:

- 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 PROMPTLY AS NEEDED.

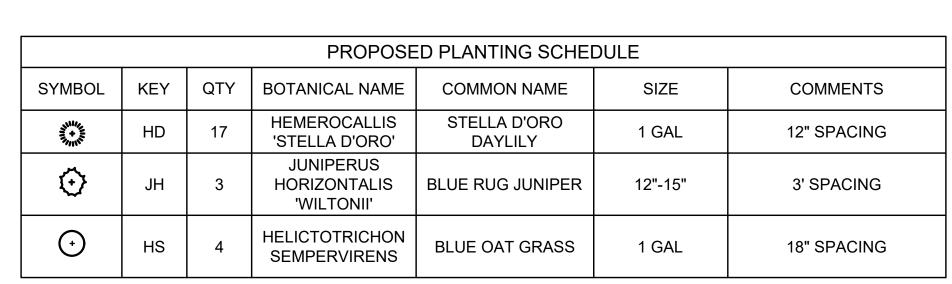
INLET PROTECTION SILT SACK IN CATCH BASIN

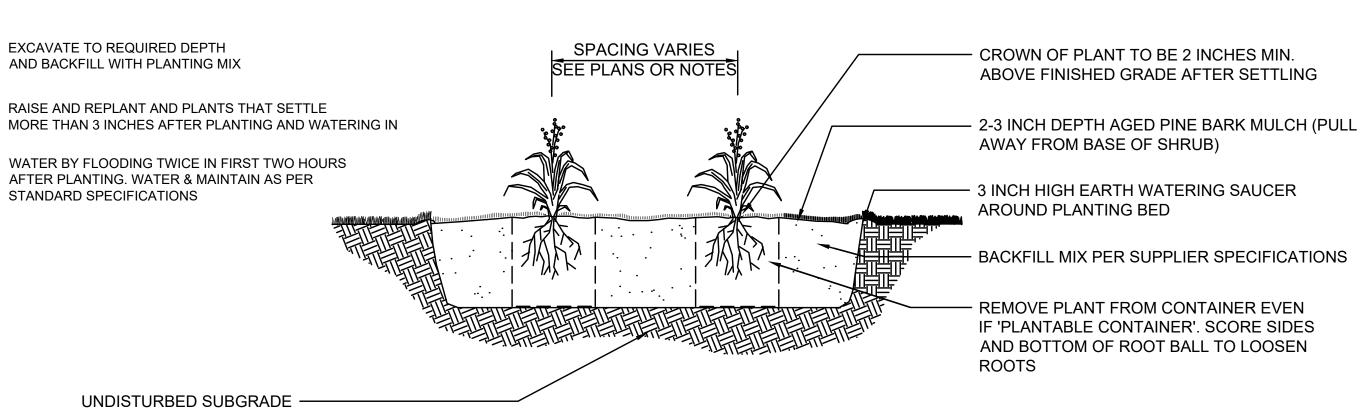


NOTES

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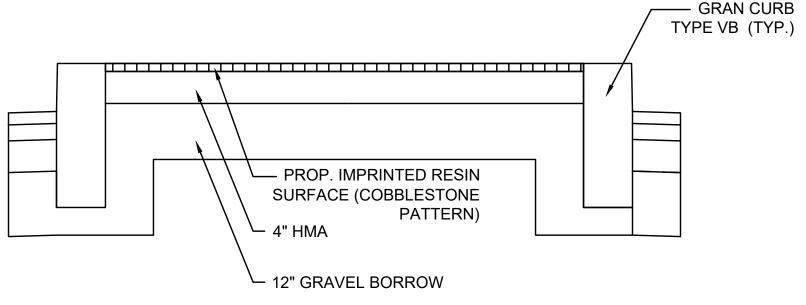
INLET PROTECTION SILT SACK IN CATCH BASIN WITH CURB INLET



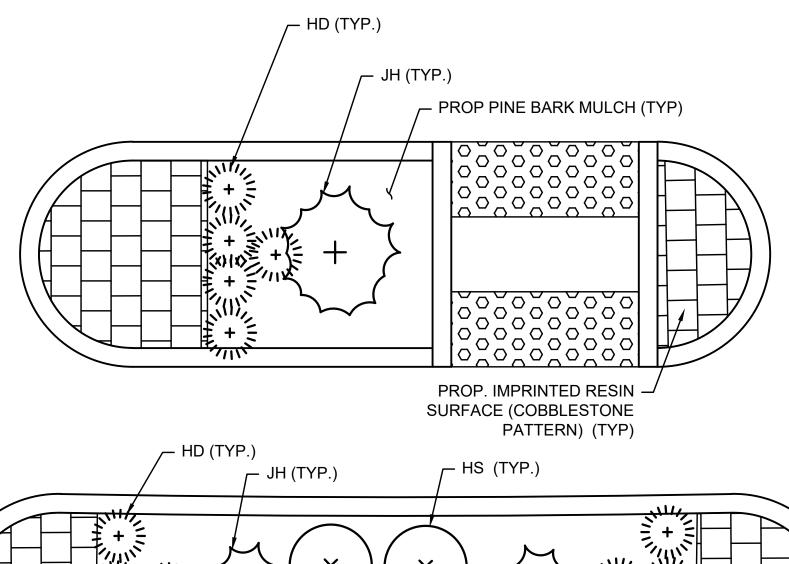


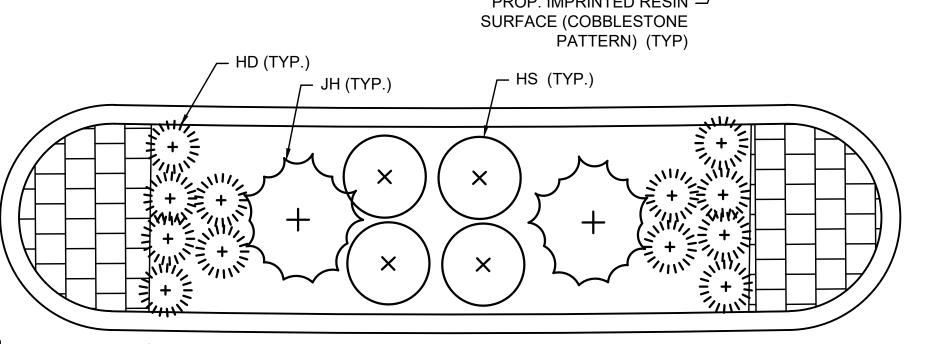
PERENNIAL PLANTING

N.T.S.



MEDIAN COBBLESTONE IMPRINTED RESIN SURFACE DETAIL





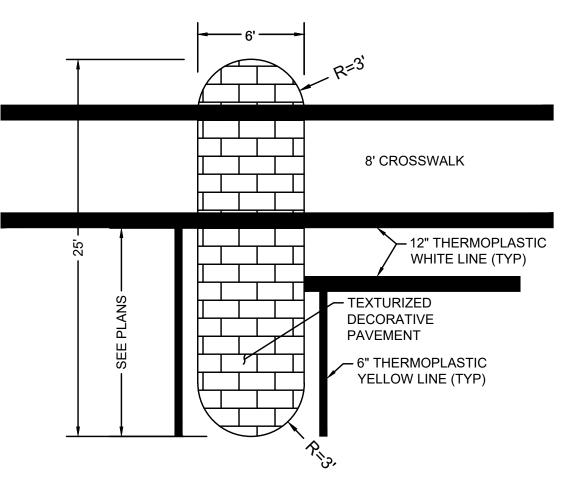
MEDIAN LANDSCAPE DETAILS

N.T.S.

EDGE OF PAVEMENT / CURB **WESTWOOD POND STREET & OAK STREET** SOLID WHITE EDGE LINE CONSTRUCTION DETAILS **SHEET 10 OF 11** 40' (TYP) 20' (TYP) **ADJACENT** ADJACENT TO MEDIAN LIMIT OF SLOTTED PAVEMENT MARKERS TO DBYL – MEDIAN (SEE PLANS) - SOLID YELLOW EDGE LINE ONE-WAY YELLOW SLOTTED STRIPED MEDIAN (SEE PLANS) PAVEMENT MARKERS (TYPICAL) SOLID WHITE EDGE LINE EDGE OF PAVEMENT / CURB

SLOTTED PAVEMENT MARKER - LAYOUT AT MEDIAN

l.T.S.

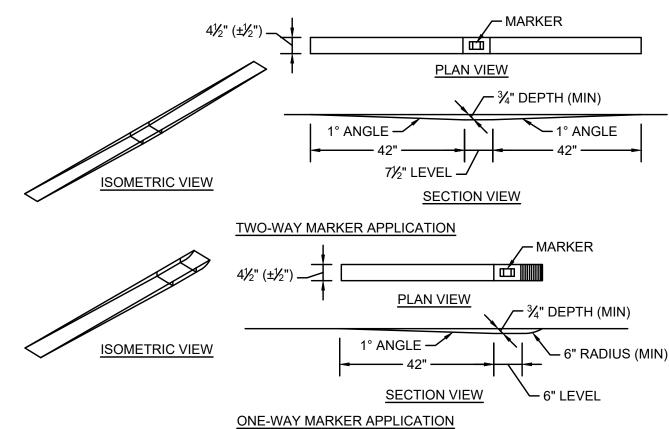


NOTES

- ALL 12" LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO - 6" LINES) WILL BE ACCEPTED.
- 2. LAYOUT OF CROSSWALKS SHALL BE APPROVED BY THE ENGINEER PRIOR TO APPLICATION AND/OR MILLING OF PAVEMENT.

STAMPED ASPHALT MEDIAN

N.T.S.



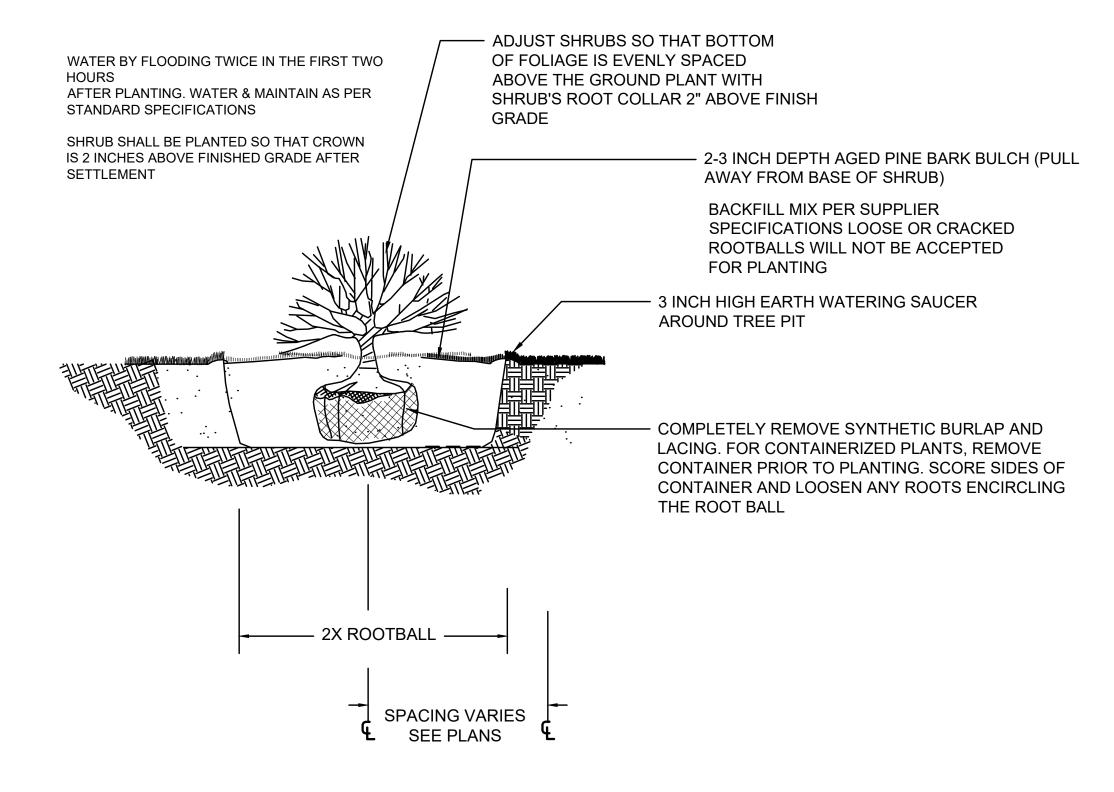
NOTES:

- 1. THE GROOVE AREA MUST BE DRY AND FREE OF DUST, DIRT, OR ANY MATERIAL WHICH
- WILL ADVERSELY AFFECT THE BOND OF THE ADHESIVE.
 2. INSTALL MARKERS WITH APPROVED ADHESIVE. ADHESIVE SHOULD NOT BE ALLOWED TO
- BUILD UP IN FRONT OF MARKER LENS.

 3. THE MARKER AND THE ADHESIVE PAD SHALL NOT EXCEED THE TOP OF THE PAVEMENT
- SURFACE. DEPTH = .75" MINIMUM.
- 4. THIS DETAIL IS PROVIDED TO SHOW TYPICAL SPACING AND APPLICATION DETAILS. CONTRACTOR SHALL VERIFY LAYOUT WITH TOWN STAFF AND THE ENGINEER PRIOR TO INSTALLING SLOTTED PAVEMENT MARKERS.

SLOTTED PAVEMENT MARKER - RECESSED GROOVE

N.T.S.



CONTAINERIZED SHRUB PLANTING

N.T.S.

