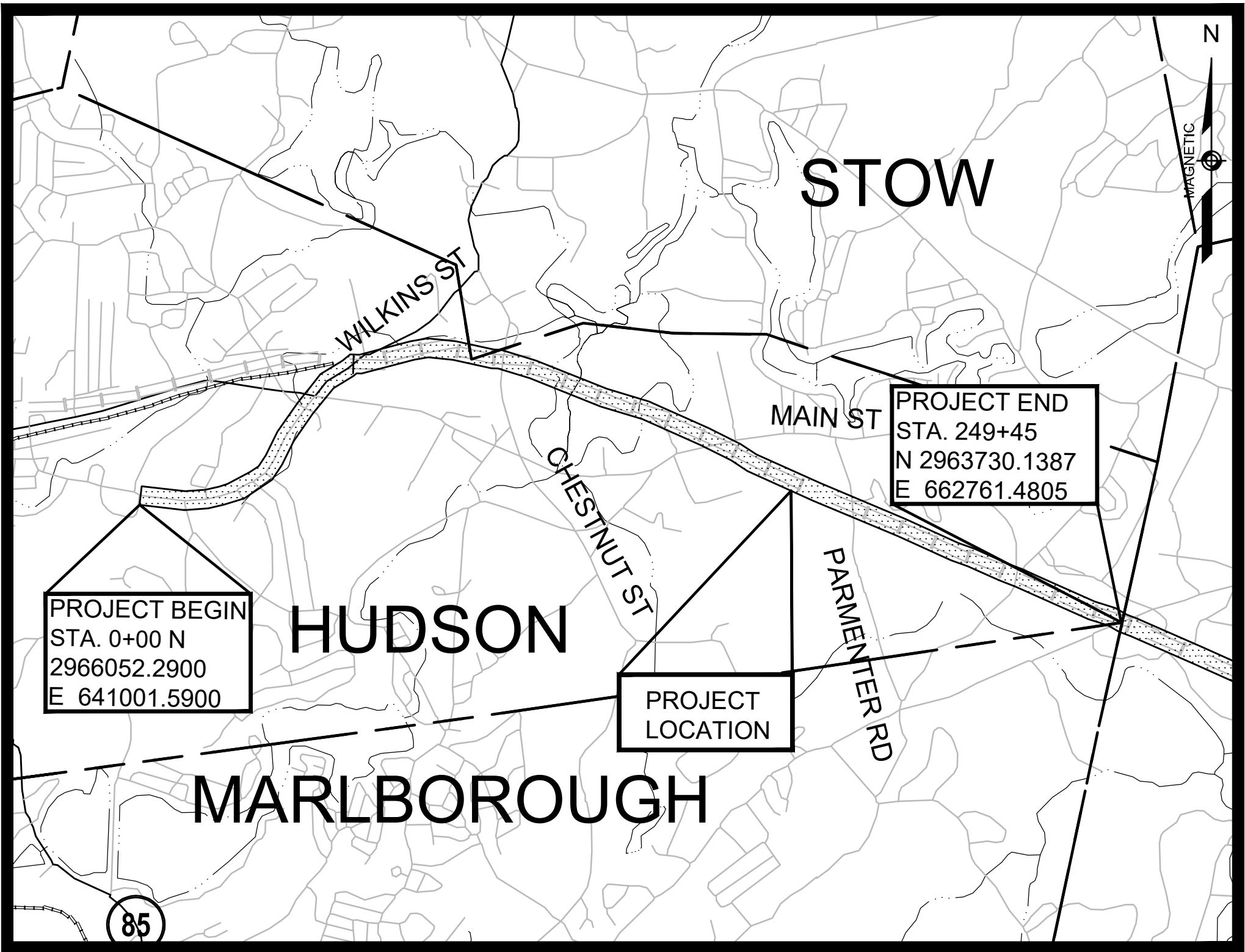


EVERSOURCE

SUDBURY-HUDSON
TRANSMISSION RELIABILITY PROJECT
HUDSON GRANT OF LOCATION
TEMPORARY TRAFFIC CONTROL PLANS

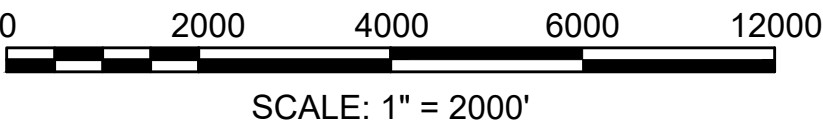
INDEX	
SHEET NO.	DESCRIPTION
01	TITLE SHEET & INDEX
02-03	KEY PLAN AND WORK ZONE ACCESS PLAN
04	GENERAL NOTES AND LEGEND
05	SUGGESTED TEMPORARY TRAFFIC CONTROL
06-07	TYPICAL DETAILS
08-13	SITE SPECIFIC DETAILS
14-19	CLOSURE AND DETOUR PLANS
20-21	PCMS PLANS
22-23	SIGN SUMMARY



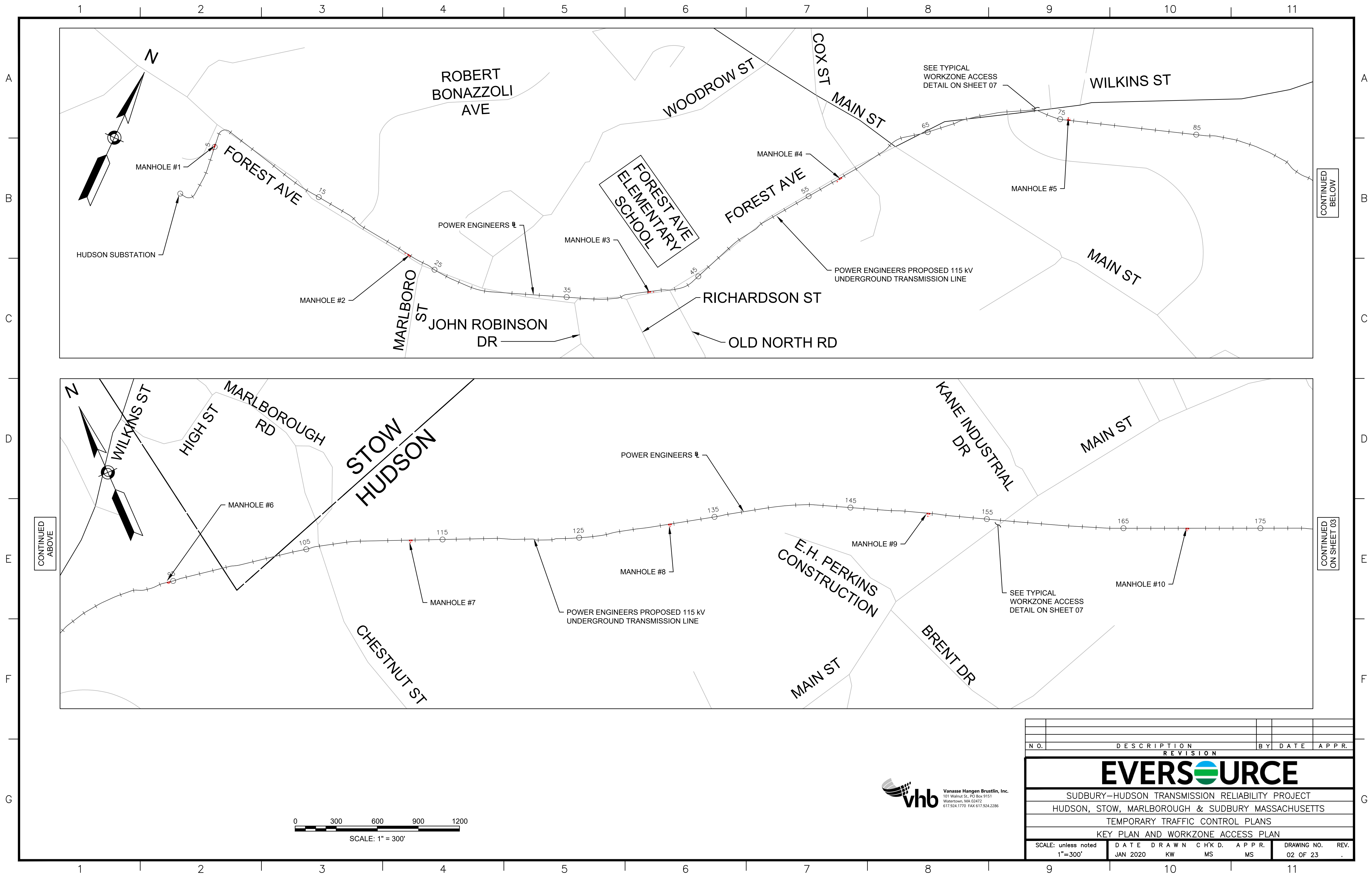
REFERENCE MANUALS
THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, THE SUPPLEMENTAL SPECIFICATIONS DATED APRIL 1, 2019, THE INTERIM SUPPLEMENTAL SPECIFICATIONS DATED SEPTEMBER 30, 2019, THE OCTOBER 2017 CONSTRUCTION STANDARD DETAILS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, THE 1996 CONSTRUCTION AND TRAFFIC STANDARD DETAILS (AS RELATED TO TRAFFIC STANDARD DETAILS ONLY), THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, THE 1988 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.

vhb
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Watertown, MA 02472
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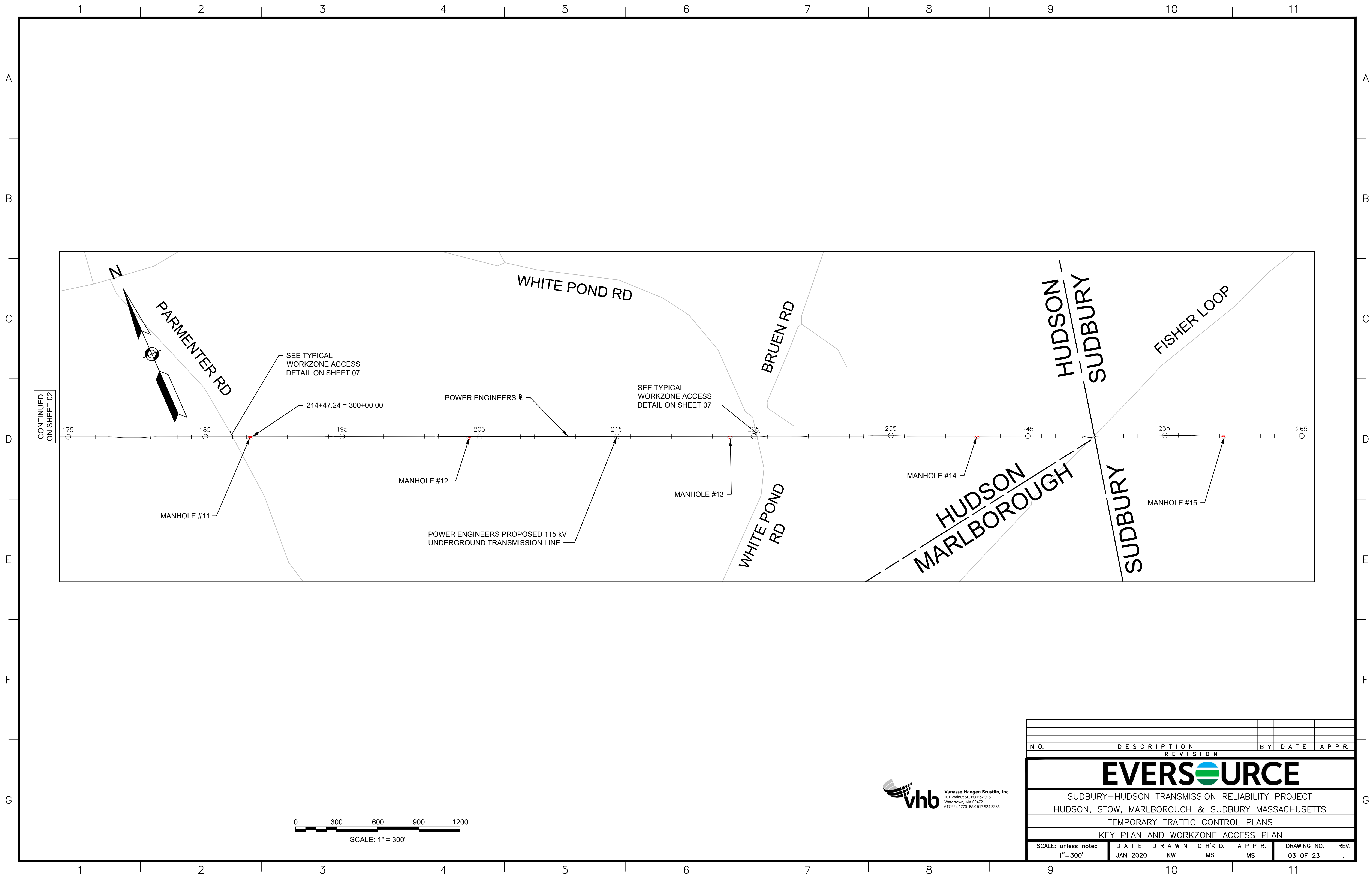
VANASSE HANGEN BRUSTLIN, INC.
WATERTOWN, MASSACHUSETTS



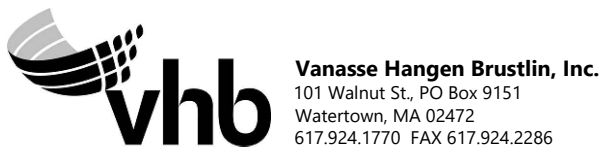
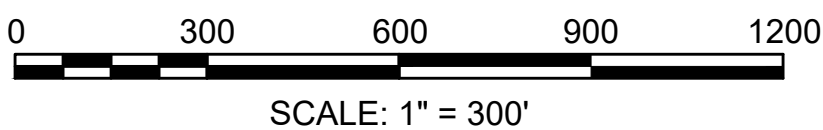
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REVISION					
EVERSOURCE					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
TITLE SHEET & INDEX					
PLAN 1 OF 23					
SCALE: unless noted 1"=2500'	DATE JAN 2020	DRAWN MM	CHECKED KW	APPROVED MS	DRAWING NO. REV. 11



N O.	DESCRIPTION			BY	DATE
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APPR.					
EVERSOURCE					
SUDBURY—HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
TEMPORARY TRAFFIC CONTROL PLANS					
KEY PLAN AND WORKZONE ACCESS PLAN					
SCALE: unless noted 1"=300'	DATE	DRAWN	C H'K'D.	APPR.	DRAWING NO. REV.
	JAN 2020	KW	MS	MS	02 OF 23 .



CONTINUED
ON SHEET 02

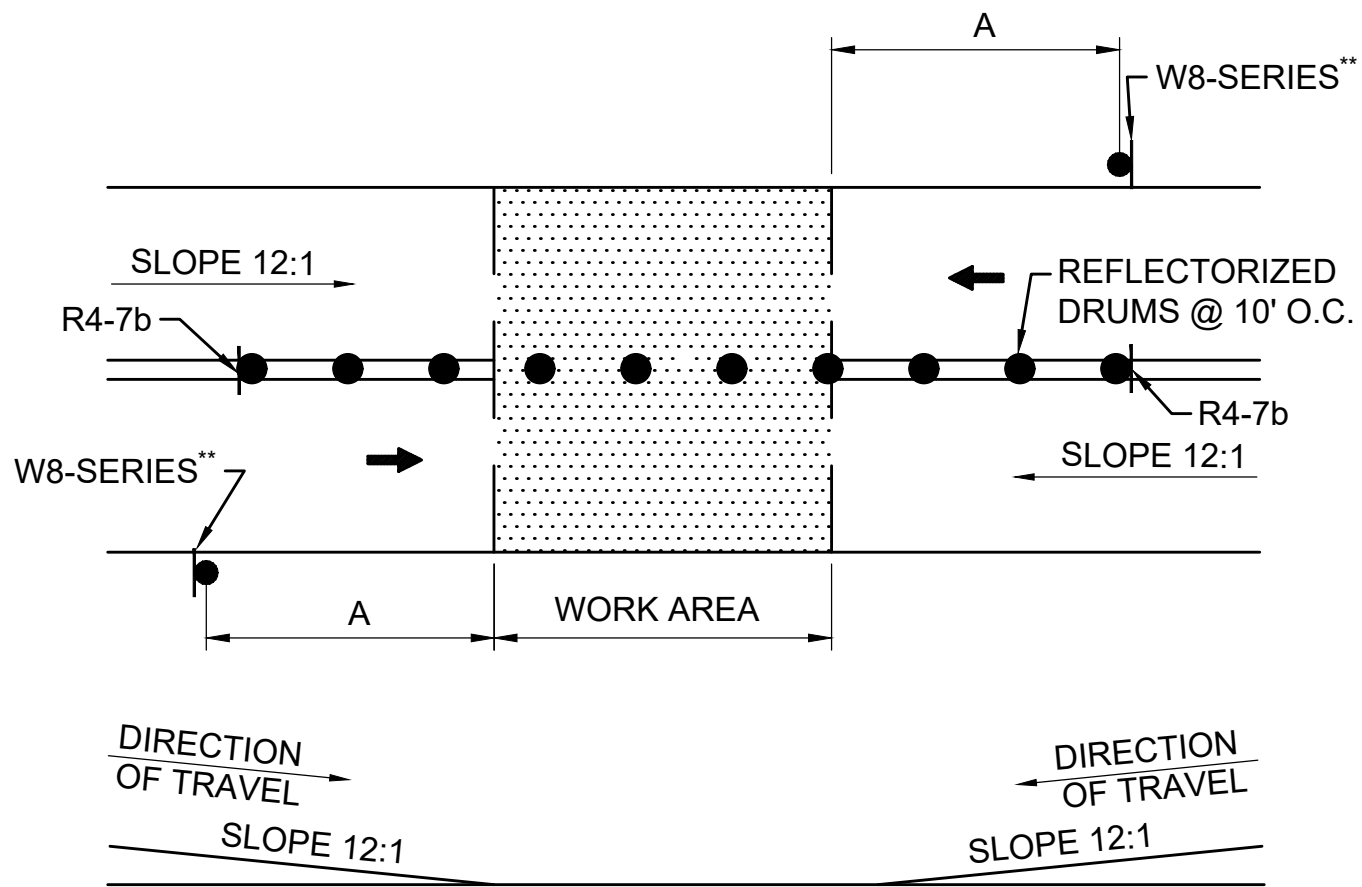


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	REVISION			APPR.	
<div>EVERSOURCE</div>					
SUDBURY—HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
TEMPORARY TRAFFIC CONTROL PLANS					
KEY PLAN AND WORKZONE ACCESS PLAN					
SCALE: unless noted 1"=300'		DATE	DRAWN	CH'K'D.	APPR.
		JAN 2020	KW	MS	MS
DRAWING NO.				REV.	
03 OF 23				.	

GENERAL NOTES

- 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).
- WORK HOURS SHALL BE AS APPROVED BY THE TOWN OF HUDSON.
- NO WORK SHALL OCCUR WITHIN THE PUBLIC WAY ON STATE RECOGNIZED HOLIDAYS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- 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).
- ALL DRUMS OUTSIDE TAPERS SHALL BE SET AT 20' ON CENTER MAX. UNLESS OTHERWISE NOTED OR ADJUSTED BY THE ENGINEER.
- ALL DRUMS SHALL BE APPROXIMATELY PLACED AND MOVED AS NECESSARY TO MAINTAIN 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.
- 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.
- REFLECTORIZED CONES SHALL BE A MINIMUM OF 36 INCHES IN HEIGHT.
- CONES MAY BE USED IN LIEU OF DRUMS OUTSIDE OF TAPER AREAS.
- 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.
- FOR DROP-OFFS 3" OR LESS WITHIN THE CLEAR ZONE, CONDITION MAY BE MITIGATED WITH W8-9 (LOW SHOULDER) SIGN OR TEMPORARY CHANNELIZATION DEVICES.
- 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 11.
- 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
- 11' MINIMUM LANE WIDTHS SHALL BE MAINTAINED UNLESS OTHERWISE NOTED.
- NON-ESSENTIAL TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE COVERED OR REMOVED DURING NON-WORKING HOURS WHEN NOT IN USE.
- SIGNS INSTALLED ON PORTABLE STANDS REQUIRE 12 INCH MINIMUM MOUNTING HEIGHT FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE SIGN.
- SIGNS INSTALLED ON PORTABLE STANDS PLACED AMONG CHANNELIZATION DEVICES REQUIRE A 36 INCH MINIMUM MOUNTING HEIGHT FROM THE ROADWAY SURFACE TO THE BOTTOM OF THE SIGN.
- SIGNS MOUNTED ON POSTS REQUIRE A MINIMUM 84 INCH MOUNTING HEIGHT FROM THE ROADWAY OR SIDEWALK SURFACE TO THE BOTTOM OF THE SIGN.
- ALL SIGNS SHALL BE MOUNTED ON THEIR OWN NCHRP 350 AND/OR MASH CRASH TESTED SIGN SUPPORTS AND INSTALLED IN ACCORDANCE WITH THE MUTCD.
- MA-W20-7b SIGNS SHALL BE REPLACED BY W20-7 SIGNS WHEN FLAGGERS ARE USED IN LIEU OF POLICE OFFICER DETAILS.
- WHEN UTILIZING TYPICAL TRAFFIC CONTROL DETAILS OR STAGING SETUPS, COVER EXISTING CONFLICTING ADVANCE WARNING SIGNS AS REQUIRED TO COMPLETE THE WORK.
- CONTRACTOR SHALL SECURE WORK AREAS TO PREVENT UNAUTHORIZED ACCESS AT ALL TIMES.
- THERE IS NO DESIGNATED BICYCLE LANE ON THE ROADWAY WITHIN THE PROJECT LIMITS. BICYCLES ARE EXPECTED TO SHARE THE ROAD WITH GENERAL VEHICULAR TRAFFIC.
- TEMPORARY CONSTRUCTION FENCING IS TO BE USED AS NEEDED WHEN WORKING ADJACENT TO PRIVATE PROPERTY TO DELINEATE WORK ZONE LIMITS AND PREVENT UNAUTHORIZED ACCESS.

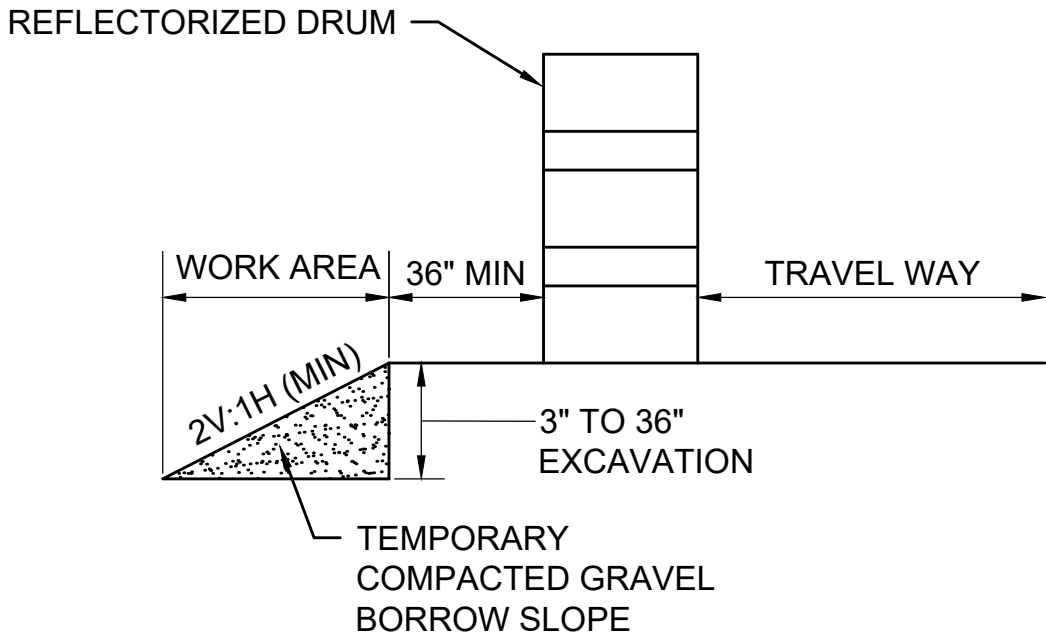
LANE TAPER LENGTH FORMULAS	
L= TAPER LENGTH IN FEET	
W= WIDTH OF ROADWAY TO BE SHIFTED OR REDIRECTED IN FEET	
S= POSTED SPEED LIMIT IN MPH	
POSTED SPEED	
40 MPH OR LESS	GREATER THAN 40 MPH
$L = \frac{WS^2}{60}$	L= WS



- NOTES:
- SQUARE OFF THE FULL WIDTH OF THE ROADWAY AT THE END OF WORK DAY
 - ** CONTRACTOR SHALL INSTALL W8-1 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



- NOTE:
- 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

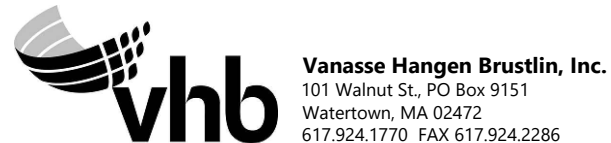
SCALE: NTS

LEGEND

	FLAGGER
	POLICE OFFICER
	TRAFFIC SIGNAL
	REFLECTORIZED DRUM
	REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS (SEE NOTE 7)
	TEMPORARY CONSTRUCTION SIGN
	TRAFFIC CONE
	TYPE III BARRICADE
	WORK AREA (PUBLIC ACCESS RESTRICTED)
	ROAD CLOSED, LOCAL ACCESS ONLY
	TRAFFIC FLOW
	PEDESTRIAN ROUTE
	CONSTRUCTION FENCE
	TEMPORARY PORTABLE PEDESTRIAN BARRICADE
NTS	NOT TO SCALE

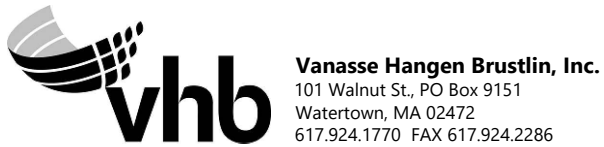
ADVANCE SIGN SPACING				
ROADWAY	DISTANCE BETWEEN SIGNS (FEET)			
	A	B	C	D
FOREST AVE, WILKINS ST, MAIN ST, CONCORD RD, DUTTON RD, PEAKHAM RD, HORSE POND RD, UNION AVE, LANDHAM RD	350	150	350	350
BOSTON POST RD (ROUTE 20)	500	250	500	500
ALL OTHERS	100	50	100	100

BUFFER SPACING	
SPEED (MPH)	DISTANCE (FEET)
15	80
20	115
25	155
30	200
35	250
40	305

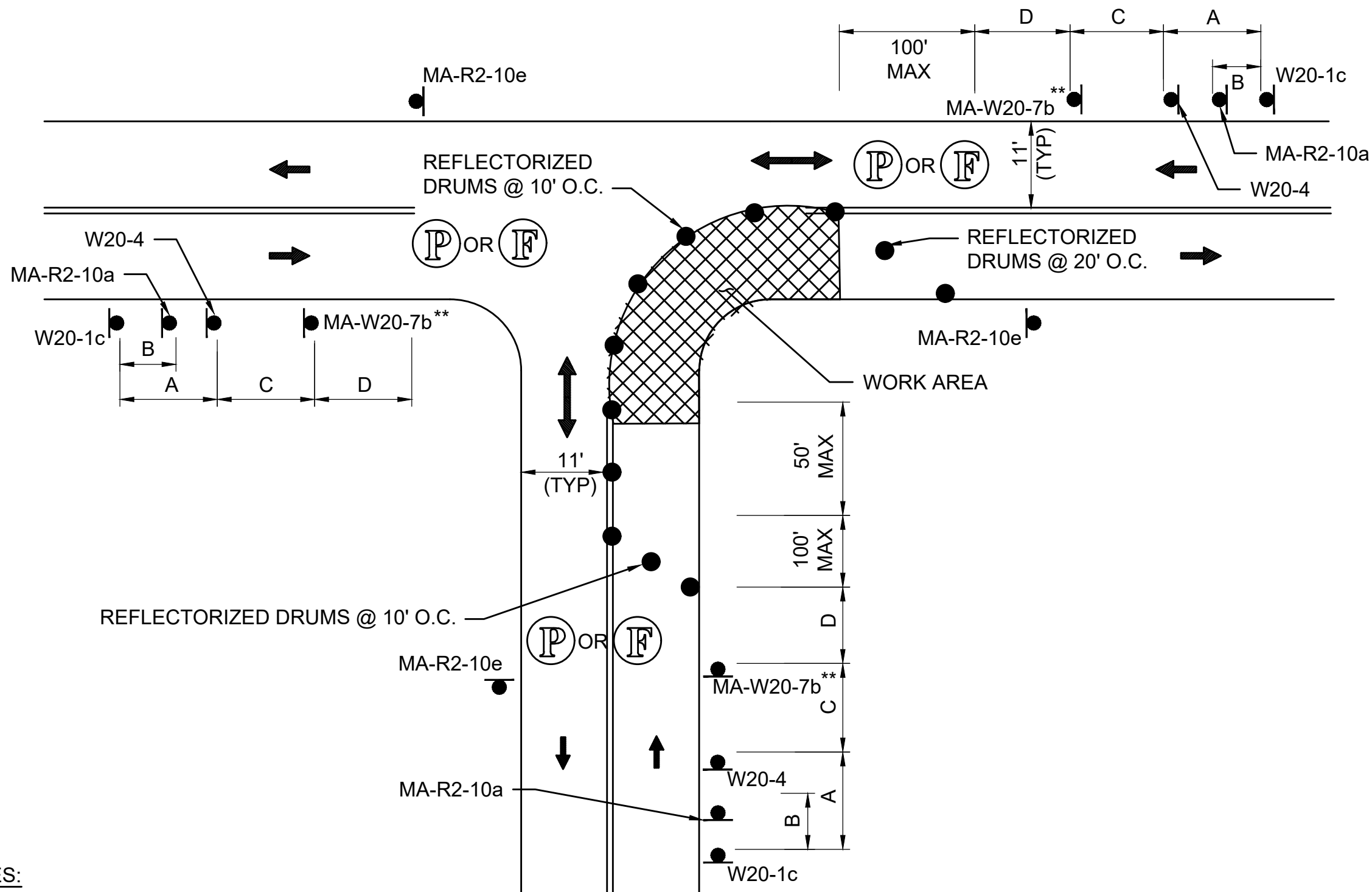


N O.	DESCRIPTION	BY	DATE	APP.R.
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EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
TEMPORARY TRAFFIC CONTROL PLANS				
GENERAL NOTES AND LEGEND				
SCALE: unless noted NTS	DATE JAN 2020	DRAWN KW	CHK'D. MS	APP.R. MS
DRAWING NO. 04 OF 23	REV. .			

SUGGESTED TEMPORARY TRAFFIC CONTROL SETUP APPLICATION										
TOWN	ROADWAY	POWER & STATION (SEE NOTE 1)	TEMPORARY TRAFFIC CONTROL SETUPS		SHEET NUMBER	NOTES				
HUDSON	EVERSOURCE	0+00 ± TO 6+30 ±	OFF-ROAD		--	--				
		6+30 ± TO 6+50 ±	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC PEDESTRIAN BYPASS DETAIL		SHEET 06 SHEET 07	--				
	FOREST AVENUE	6+30 ± TO 22+20 ±	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC		SHEET 06	--				
		22+20 ± TO 23+80 ±	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC		SHEET 06	MANHOLE #2				
		23+80 ± TO 24+40 ±	SITE SPECIFIC FOREST AVE AT MARLBORO ST STAGE 1		SHEET 08	AT MARLBORO ST				
		24+40 ± TO 25+50 ±	SITE SPECIFIC FOREST AVE AT MARLBORO ST STAGE 2		SHEET 09	AT MARLBORO ST				
		25+50 ± TO 29+20 ±	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC		SHEET 06	--				
		29+20 ± TO 30+20 ±	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC		SHEET 06	AT WOODROW ST				
		30+20 ± TO 35+60 ±	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC		SHEET 06	--				
		35+60 ± TO 37+00 ±	CLOSURE AND DETOUR PLAN - JOHN ROBINSON DR		SHEET 14	AT JOHN ROBINSON RD				
		37+00 ± TO 39+00 ±	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC		SHEET 06	--				
		39+00 ± TO 40+50 ±	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC		SHEET 06	AT RICHARDSON ST				
		40+50 ± TO 41+80 ± MANHOLE #3	CLOSURE AND DETOUR PLAN- FOREST AVENUE - MANHOLE #3		SHEET 15	MANHOLE #3				
		41+80 ± TO 42+50 ±	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC		SHEET 06	--				
		42+50 ± TO 44+00 ±	ONE LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS		SHEET 06	AT OLD NORTH RD				
		44+00 ± TO 56+80 ±	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC		SHEET 06	--				
		56+80 ± TO 58+40 ± MANHOLE #4	CLOSURE AND DETOUR PLAN- FOREST AVENUE - MANHOLE #4		SHEET 16	MANHOLE #4				
	58+40 ± TO 61+40 ±	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC		SHEET 06	--					
	FOREST AVENUE / WILKINS ST / MAIN ST	61+40 ± TO 62+00 ±	SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 1 PCMS PLAN - FOREST AVE AT MAIN ST NIGHT WORK		SHEET 10 SHEET 21	AT MAIN / WILKINS ST				
		62+00 ± TO 62+30 ±	SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 2 CLOSURE AND DETOUR PLAN - FOREST AVENUE - MANHOLE #4		SHEET 11 SHEET 16	AT MAIN / WILKINS ST				
		62+30 ± TO 62+40 ±	SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 3 CLOSURE AND DETOUR PLAN - FOREST AVENUE - MANHOLE #4		SHEET 12 SHEET 16	AT MAIN / WILKINS ST				
		62+40 ± TO 63+30 ±	SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 4 PCMS PLAN - FOREST AVE AT MAIN ST NIGHT WORK		SHEET 13 SHEET 21	AT MAIN / WILKINS ST				
	WILKINS ST	63+30 ± TO 73+60 ±	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC		SHEET 06	--				
CHESTNUT ST	106+10 TO 106+50	CLOSURE AND DETOUR PLAN- CHESTNUT ST AND MARLBORO RD		SHEET 18	AT CHESTNUT ST					
MAIN ST	155+60 TO 156+40	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC		SHEET 06	AT MAIN ST					
PARMENTER RD	186+80 TO 187+60	TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC		SHEET 06	AT PARMENTER RD					
WHITE POND RD	224+80 TO 225+20	CLOSURE AND DETOUR PLAN - WHITE POND RD		SHEET 19	AT WHITE POND RD					
NOTES: 1. REFER TO KEY PLAN AND WORKZONE ACCESS PLAN ON SHEETS 02& 03 FOR OVERVIEW. SEE POWER ENGINEERS UNDERGROUND TRANSMISSION LINE PLAN AND PROFILE FOR ADDITIONAL INFORMATION. 2. ALL WORK HOURS SHALL BE APPROVED BY THE TOWN. IT IS ASSUMED WORK AT THE INTERSECTIONS OF FOREST AVENUE AT MARLBORO STREET AND MAIN STREET AT FOREST AVENUE/ WILKINS ST WILL REQUIRE NIGHT WORK. ALSO, IT IS ASSUMED ALL DETOURS WILL REQUIRE NIGHT WORK. WORK IN THE PROXIMITY OF FOREST AVENUE ELEMENTARY AND CHAPS CHILD CARE WILL ALSO REQUIRE ADDITIONAL COORDINATION WITH THE TOWN.										



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HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
TEMPORARY TRAFFIC CONTROL PLANS					
SUGGESTED TEMPORARY TRAFFIC CONTROL					
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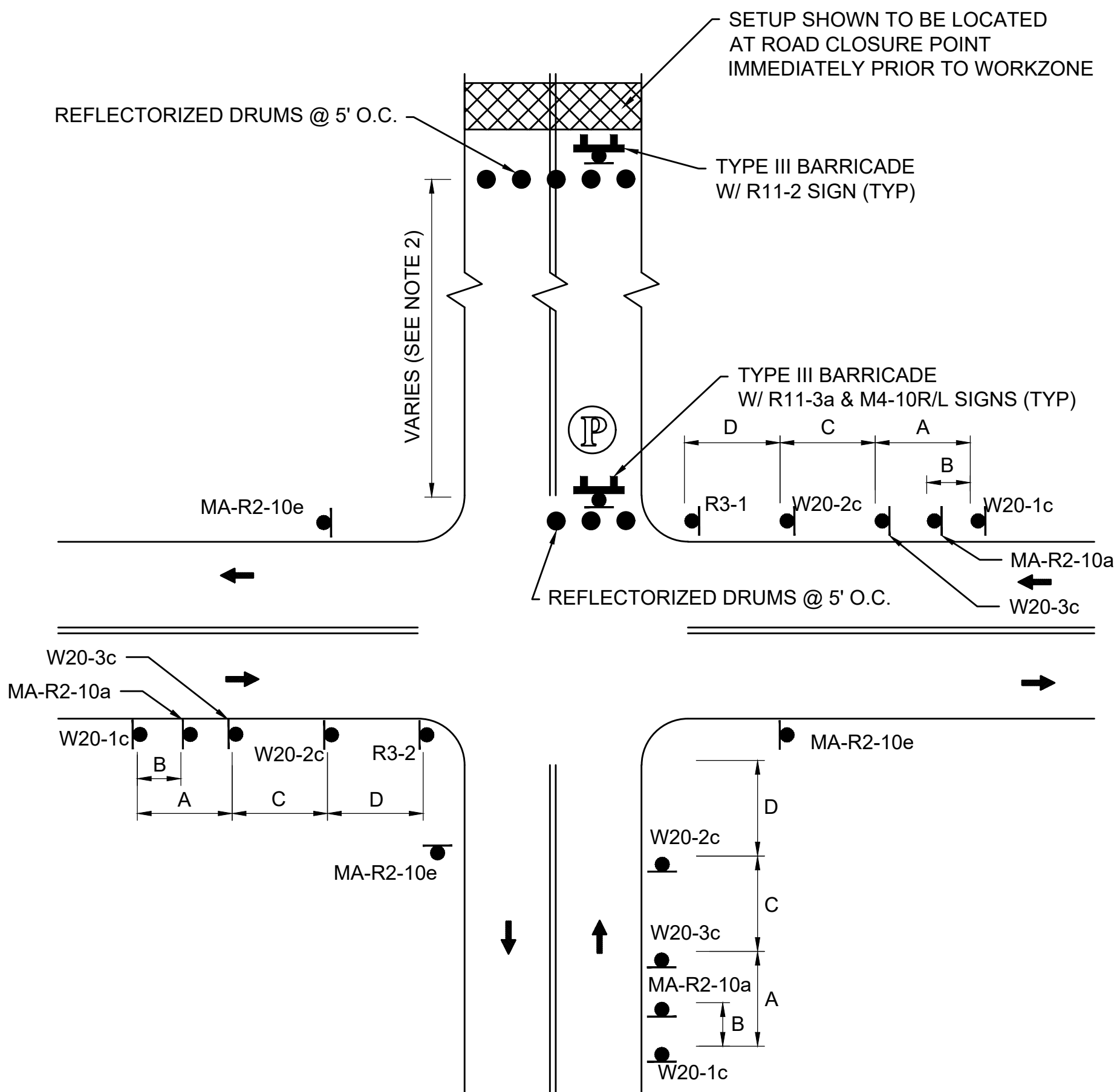


NOTES:

1. ADVANCE WARNING SIGN PLACEMENT TO BE ADJUSTED AS NECESSARY.
2. ** SEE NOTE 20 ON TTCP GENERAL NOTES & LEGEND SHEET.

ONE LANE BI-DIRECTIONAL TRAFFIC AT INTERSECTIONS

SCALE: NTS

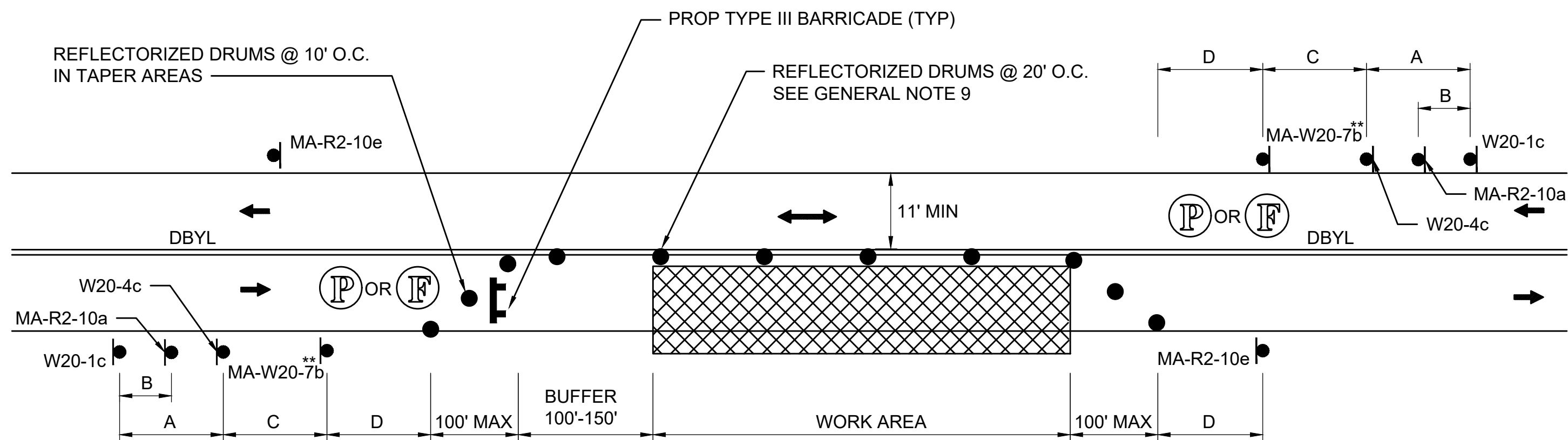


NOTE:

1. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.
2. SEE DETOUR PLAN FOR LOCATION OF WORKZONE AND PARTIAL ROAD CLOSURE.

TYPICAL LOCAL ROAD CLOSURE WITH LOCAL ACCESS

SCALE: NTS

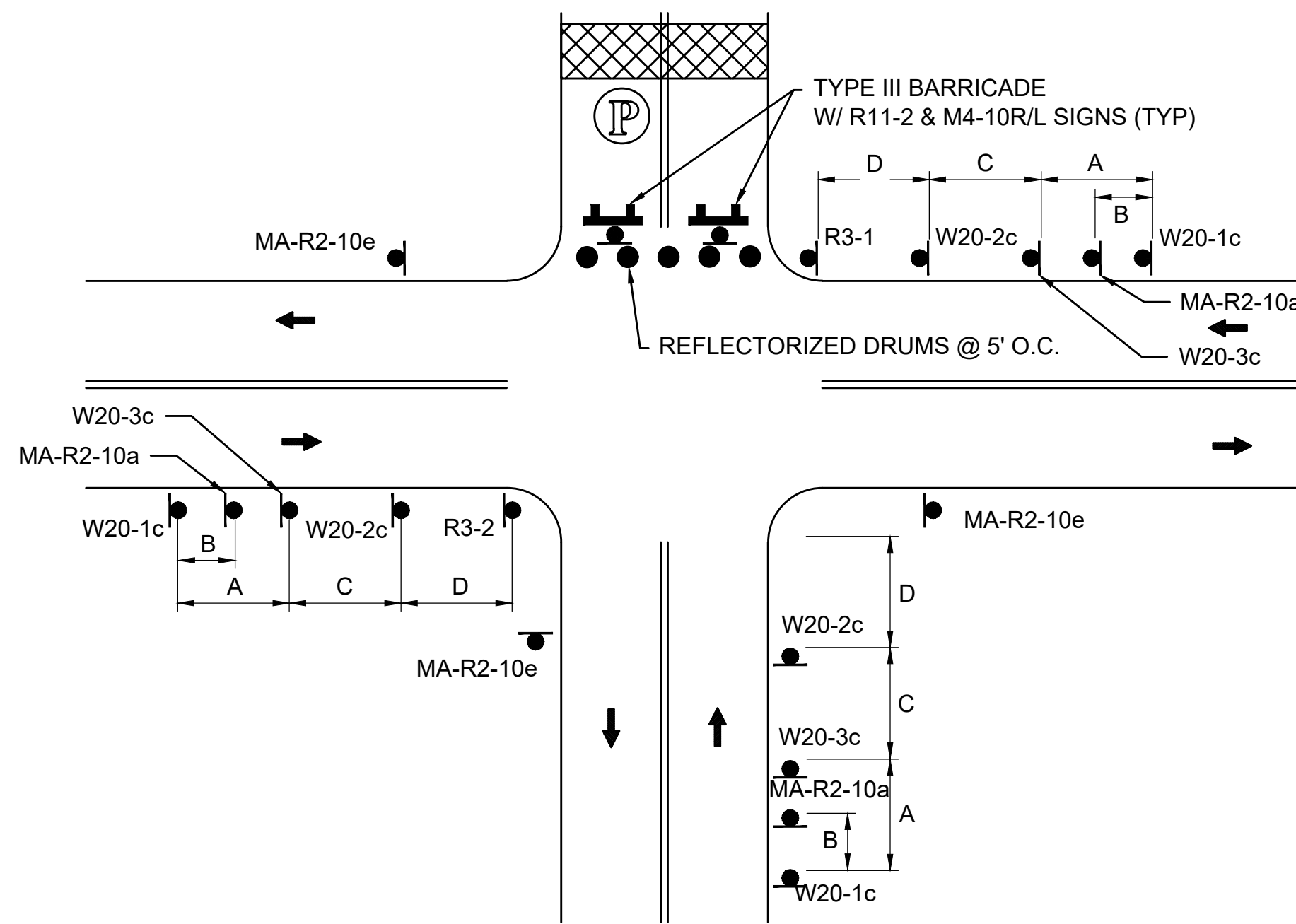


NOTES:

1. REFER TO ADVANCE SIGN SPACING TABLE ON TTCP GENERAL NOTES & LEGEND SHEET.
2. ** SEE NOTE 20 ON TTCP GENERAL NOTES & LEGEND SHEET.

TYPICAL TWO-WAY STREET LANE CLOSURE ALTERNATING TRAFFIC

SCALE: NTS



NOTE:

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

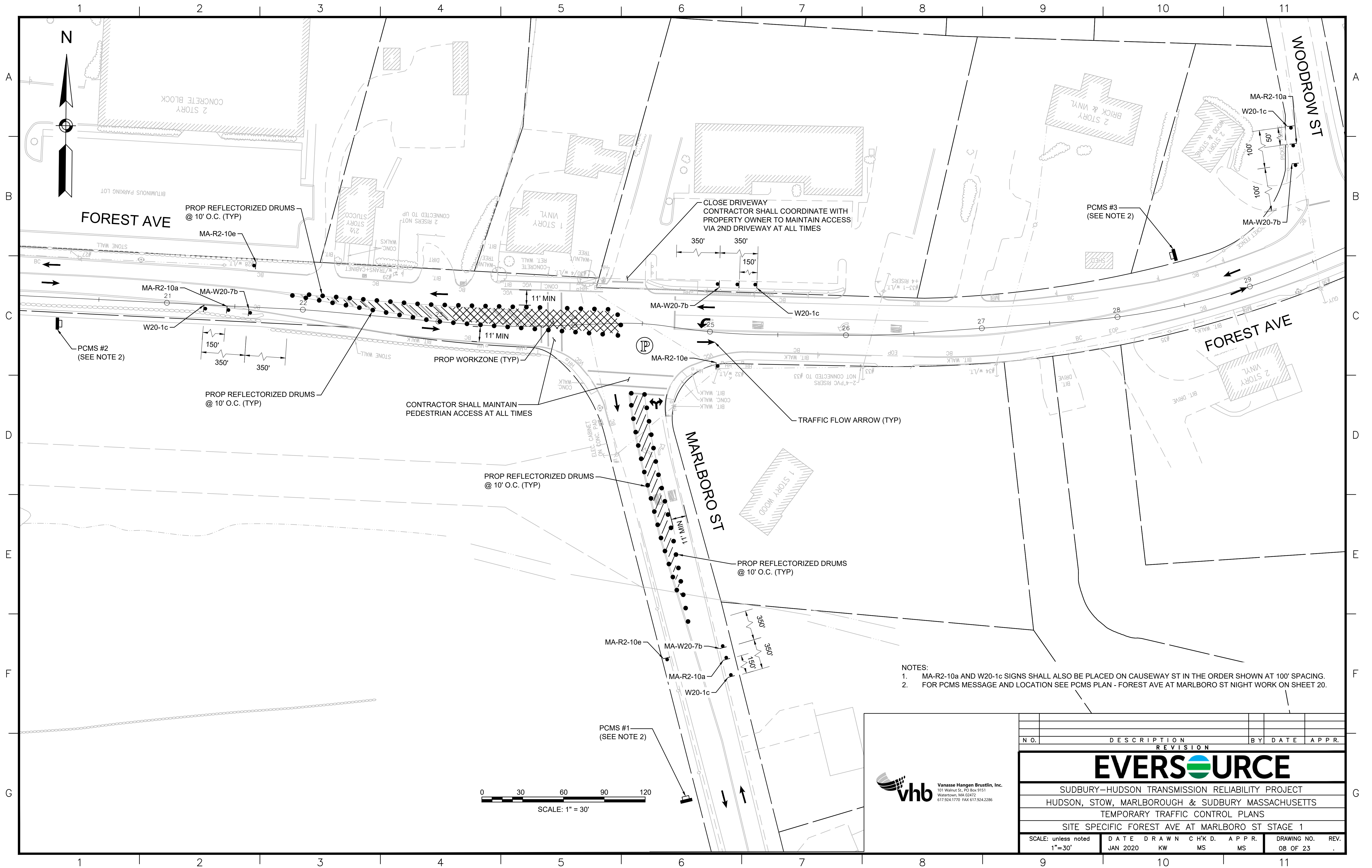
TYPICAL LOCAL ROAD CLOSURE

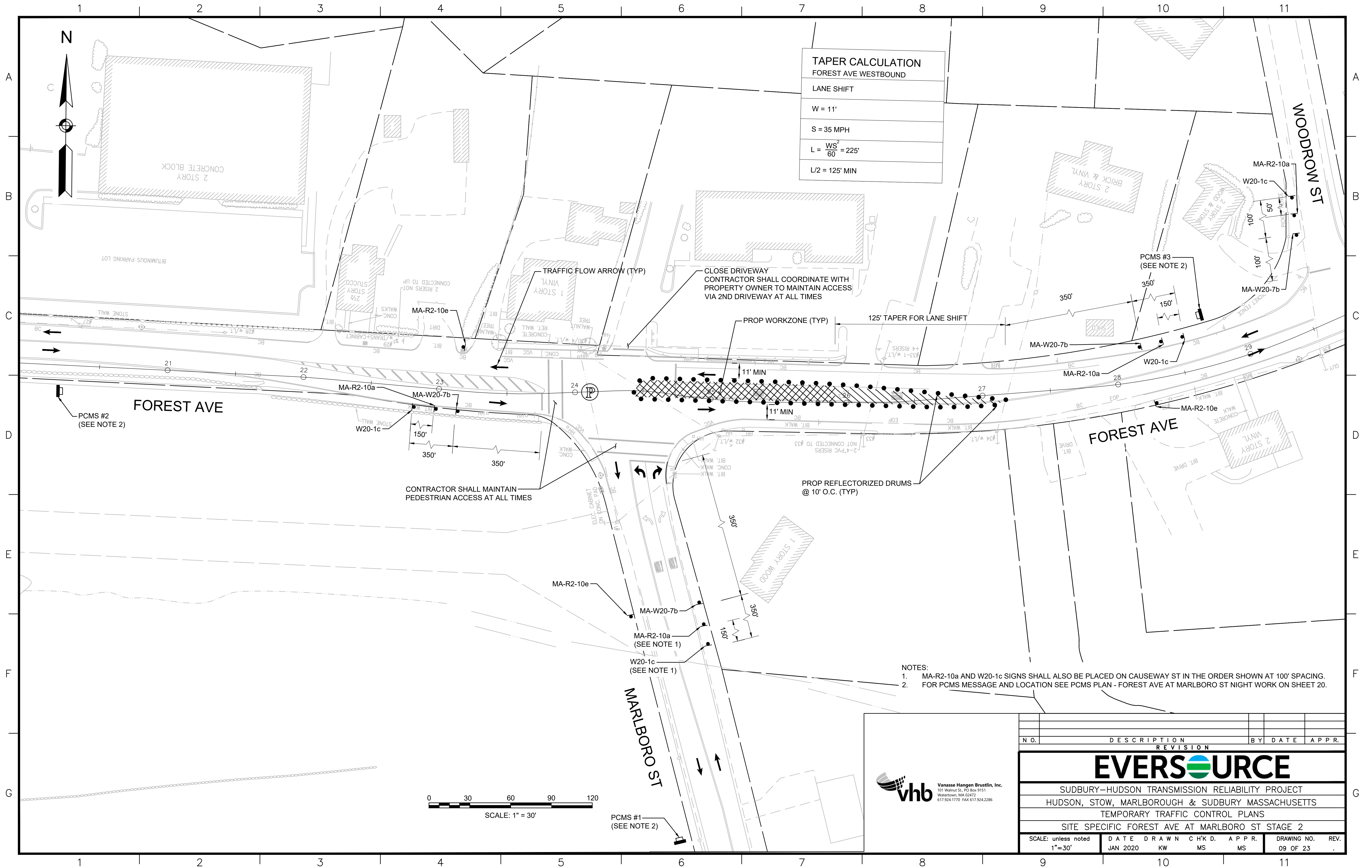
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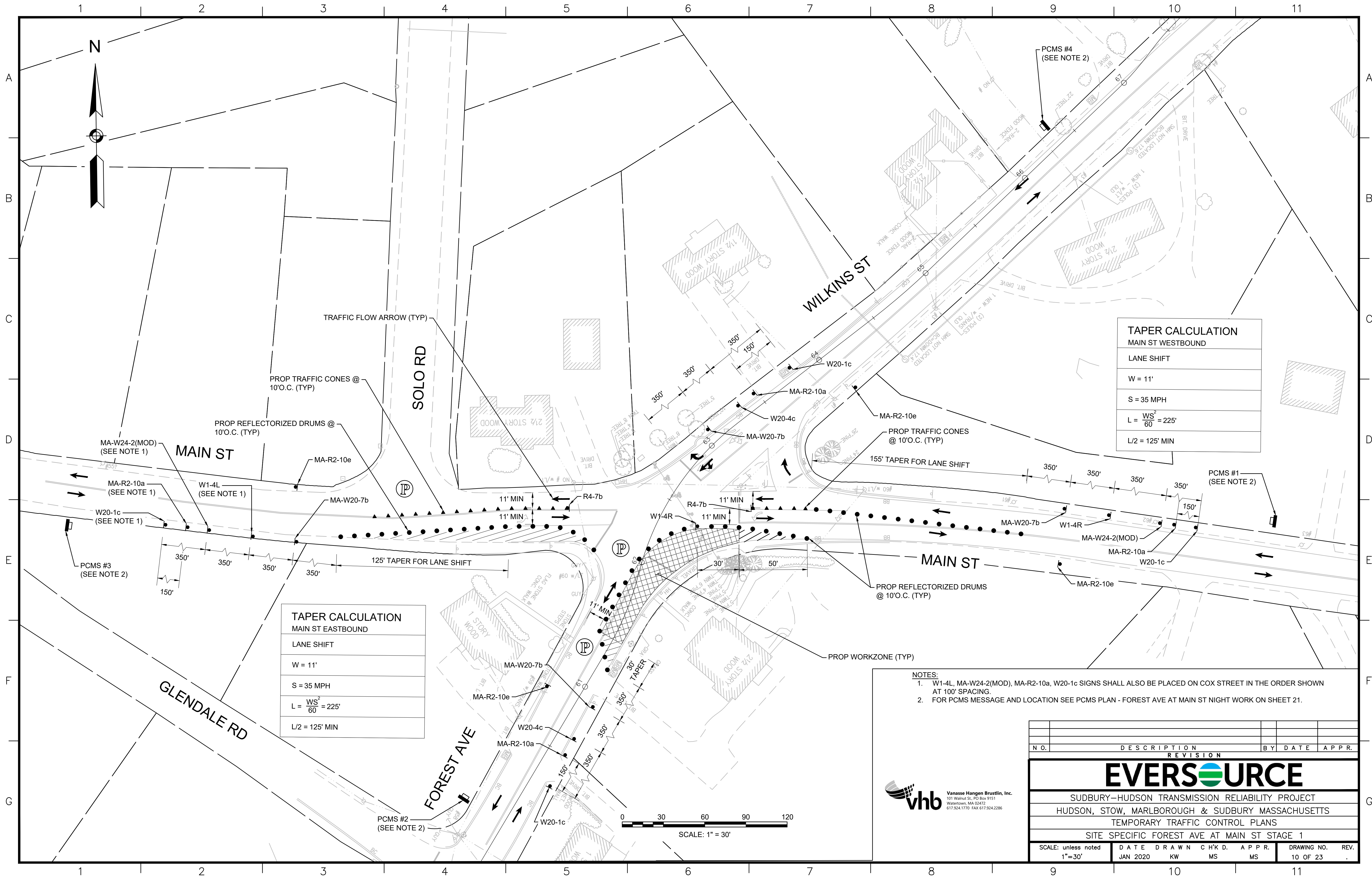
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SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT									
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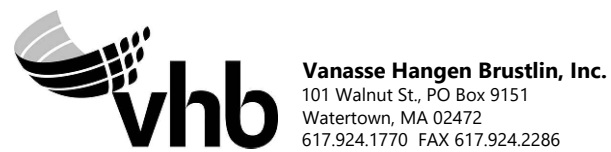
NO.		DESCRIPTION	BY	DATE	APPR.
		REVISION			
EVERSOURCE					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
TEMPORARY TRAFFIC CONTROL PLANS					
SITE SPECIFIC FOREST AVE AT MARLBORO ST STAGE 2					
SCALE: unless noted 1"=30'		DATE	DRAWN	CHK'D	APPR.
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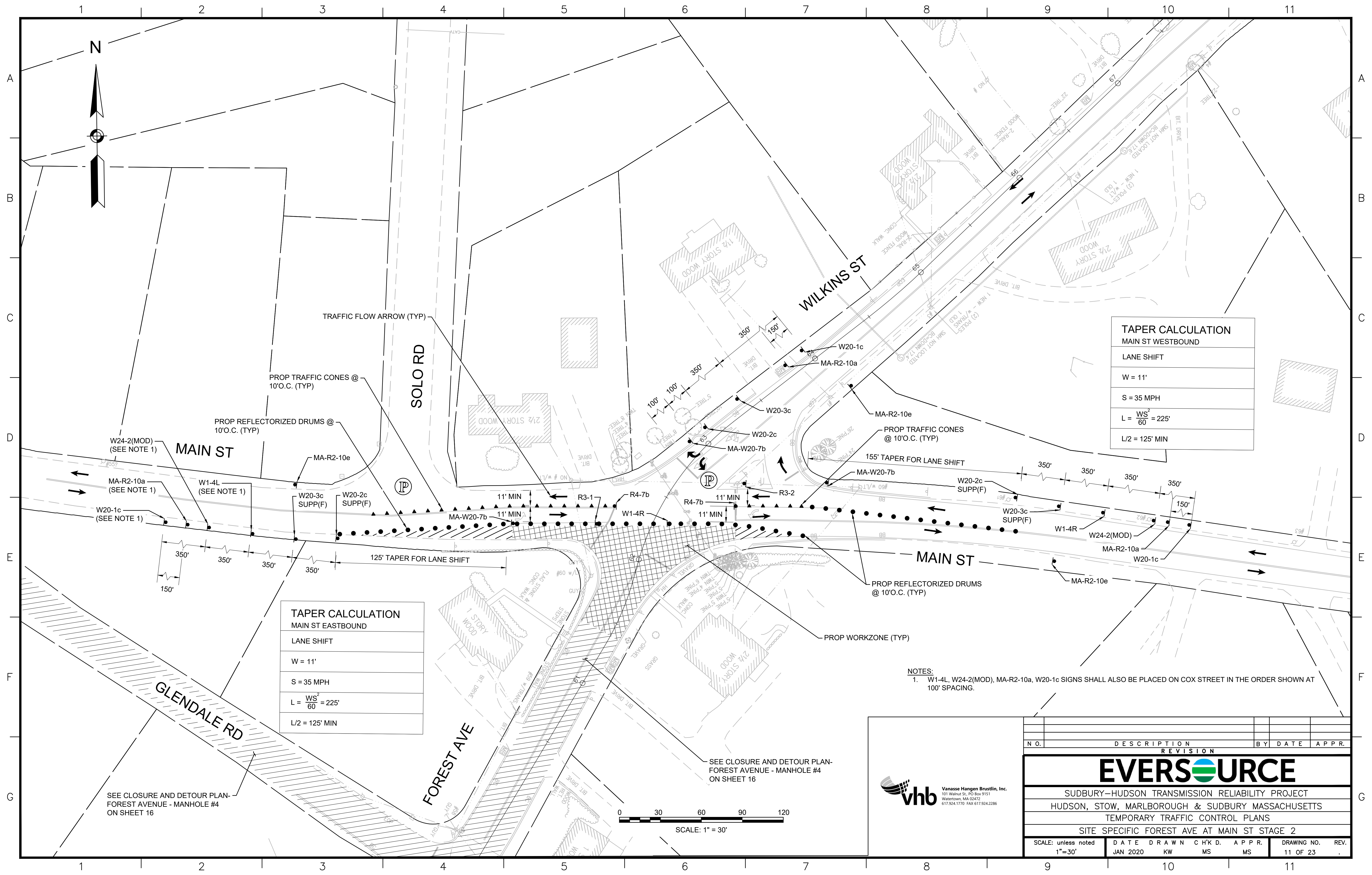
TAPER CALCULATION	
MAIN ST WESTBOUND	
LANE SHIFT	
W = 11'	
S = 35 MPH	
$L = \frac{WS^2}{60} = 225'$	
L/2 = 125' MIN	

TAPER CALCULATION	
MAIN ST EASTBOUND	
LANE SHIFT	
W = 11'	
S = 35 MPH	
$L = \frac{WS^2}{60} = 225'$	
L/2 = 125' MIN	

- NOTES:
- W1-4L, MA-W24-2(MOD), MA-R2-10a, W20-1c SIGNS SHALL ALSO BE PLACED ON COX STREET IN THE ORDER SHOWN AT 100' SPACING.
 - FOR PCMS MESSAGE AND LOCATION SEE PCMS PLAN - FOREST AVE AT MAIN ST NIGHT WORK ON SHEET 21.




N O.	DESCRIPTION					BY	DATE	APPR.	
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TEMPORARY TRAFFIC CONTROL PLANS									
SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 1									
SCALE: unless noted 1"=30'		DATE	DRAWN	C H'K D.	APPR.		DRAWING NO.		REV.
		JAN 2020	KW	MS	MS		10 OF 23		.



TAPER CALCULATION MAIN ST WESTBOUND	
LANE SHIFT	
W = 11'	
S = 35 MPH	
$L = \frac{WS^2}{60} = 225'$	
L/2 = 125' MIN	


TAPER CALCULATION MAIN ST EASTBOUND	
LANE SHIFT	
W = 11'	
S = 35 MPH	
$L = \frac{WS^2}{60} = 225'$	
L/2 = 125' MIN	

NOTES:
 1. W1-4L, W24-2(MOD), MA-R2-10a, W20-1c SIGNS SHALL ALSO BE PLACED ON COX STREET IN THE ORDER SHOWN AT 100' SPACING.



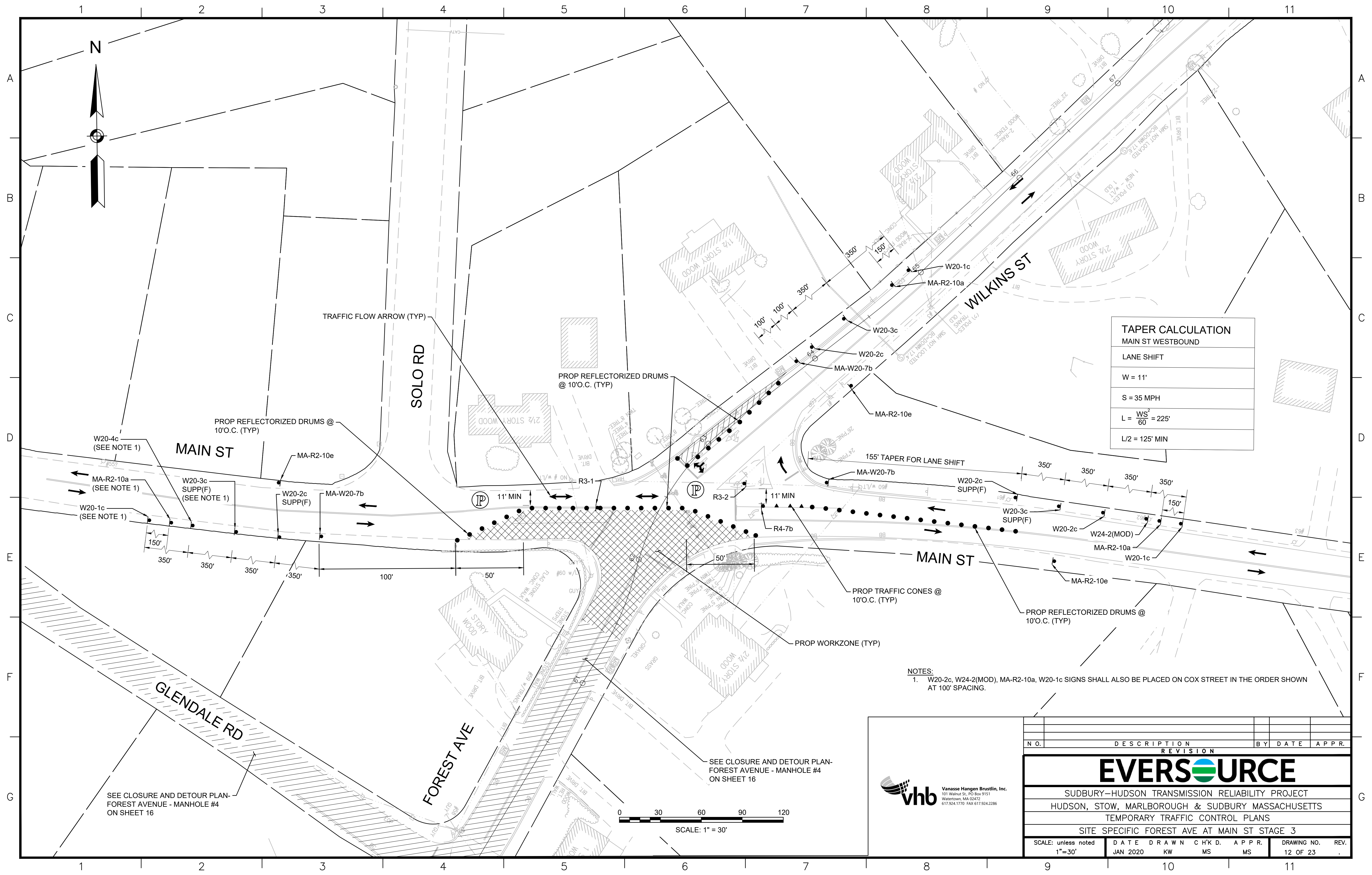
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SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
 HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
 TEMPORARY TRAFFIC CONTROL PLANS
 SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 2

SCALE: unless noted 1"=30'	DATE JAN 2020	DRAWN KW	CHK'D MS	APPR. MS	DRAWING NO. 11 OF 23	REV.
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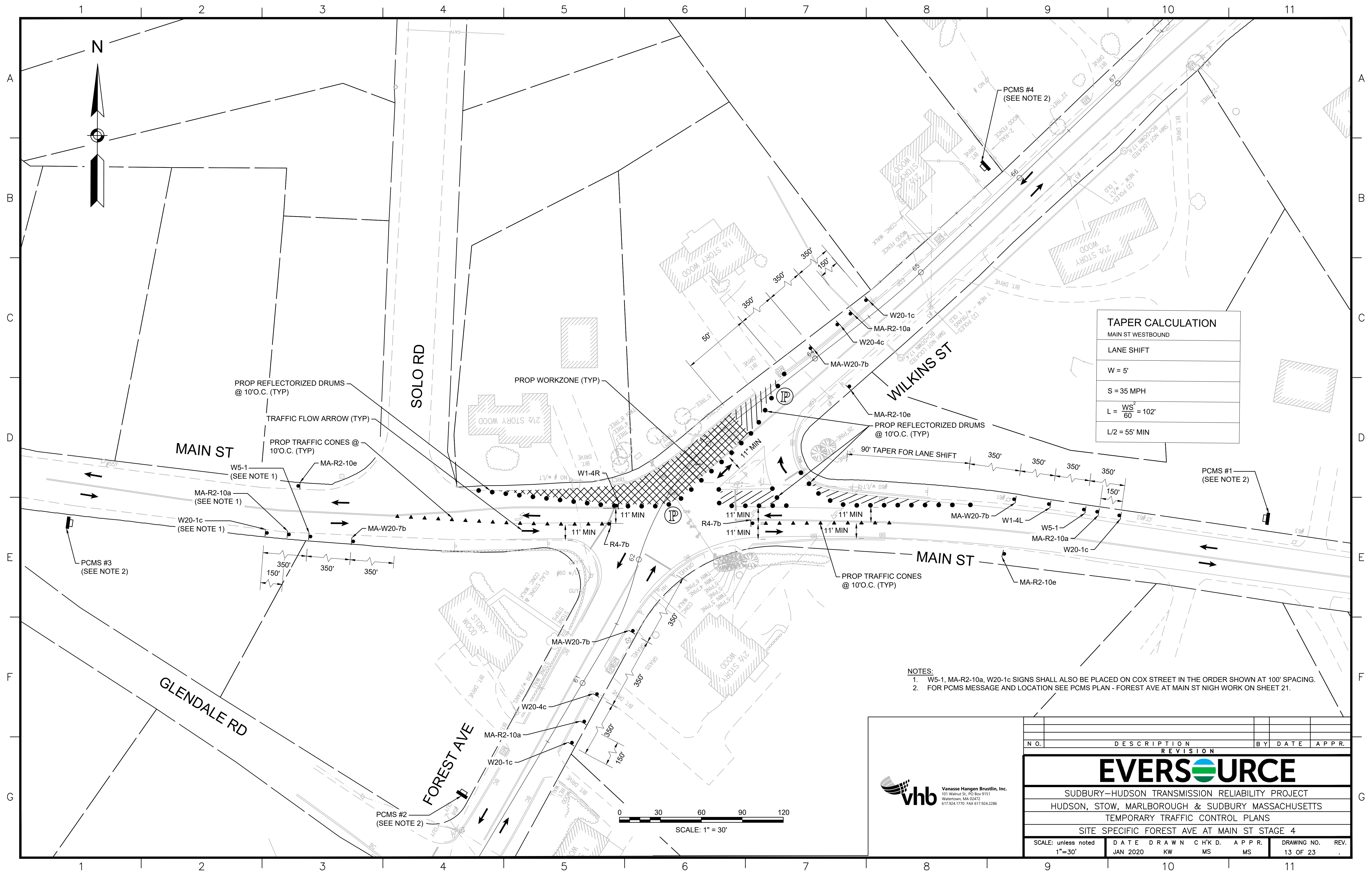


TAPER CALCULATION	
MAIN ST WESTBOUND	
LANE SHIFT	
W = 11'	
S = 35 MPH	
$L = \frac{WS^2}{60} = 225'$	
L/2 = 125' MIN	




Vanasse Hangen Brustlin, Inc.
101 Walnut St., PO Box 9151
Watertown, MA 02472
617.924.1770 FAX 617.924.2286

N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
TEMPORARY TRAFFIC CONTROL PLANS				
SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 3				
SCALE: unless noted 1"=30'	DATE JAN 2020	DRAWN KW	CHK'D MS	APPR. MS
DRAWING NO. 12 OF 23				REV.



TAPER CALCULATION	
MAIN ST WESTBOUND	
LANE SHIFT	
W = 5'	
S = 35 MPH	
$L = \frac{WS^2}{60} = 102'$	
L/2 = 55' MIN	

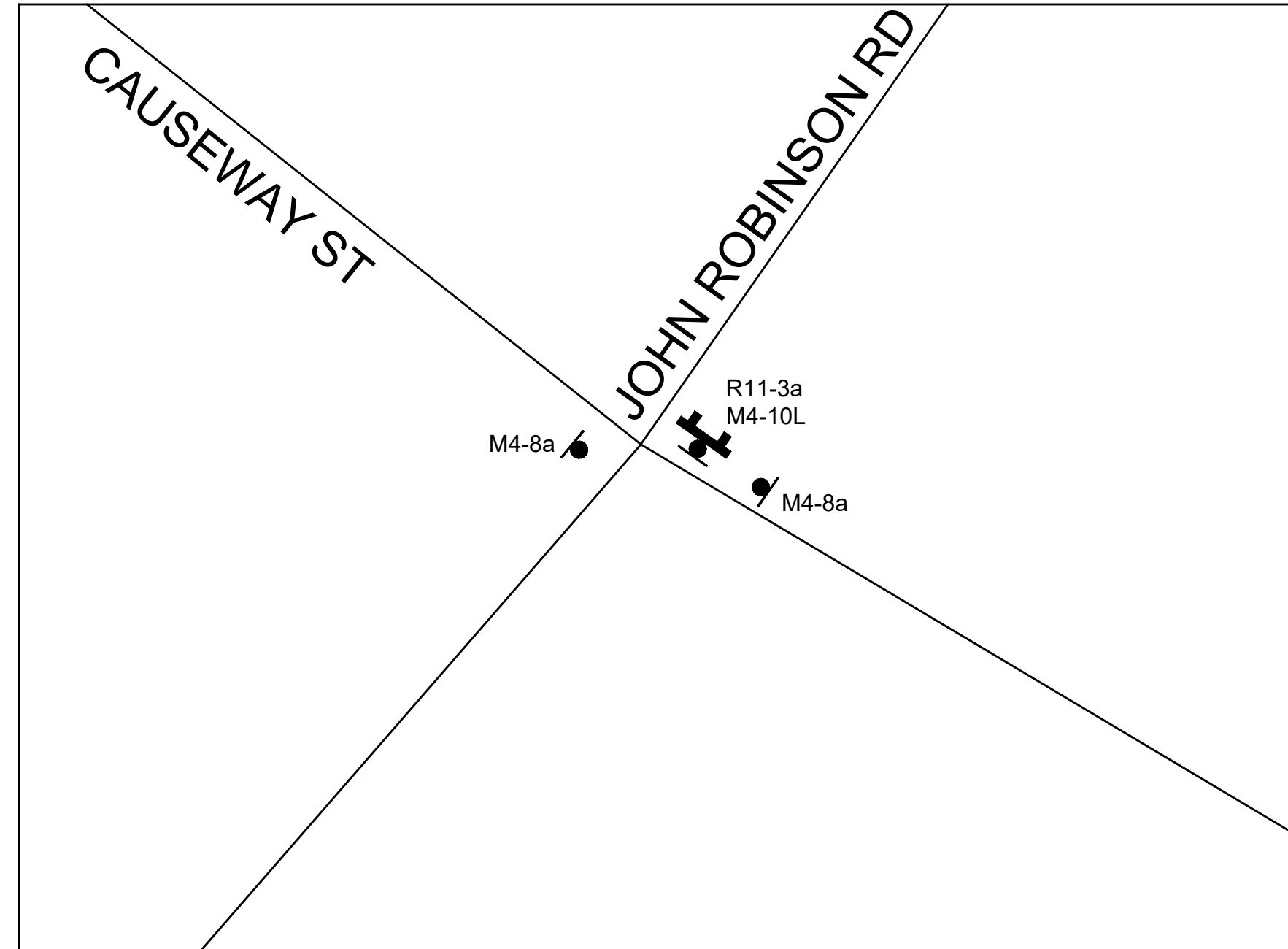
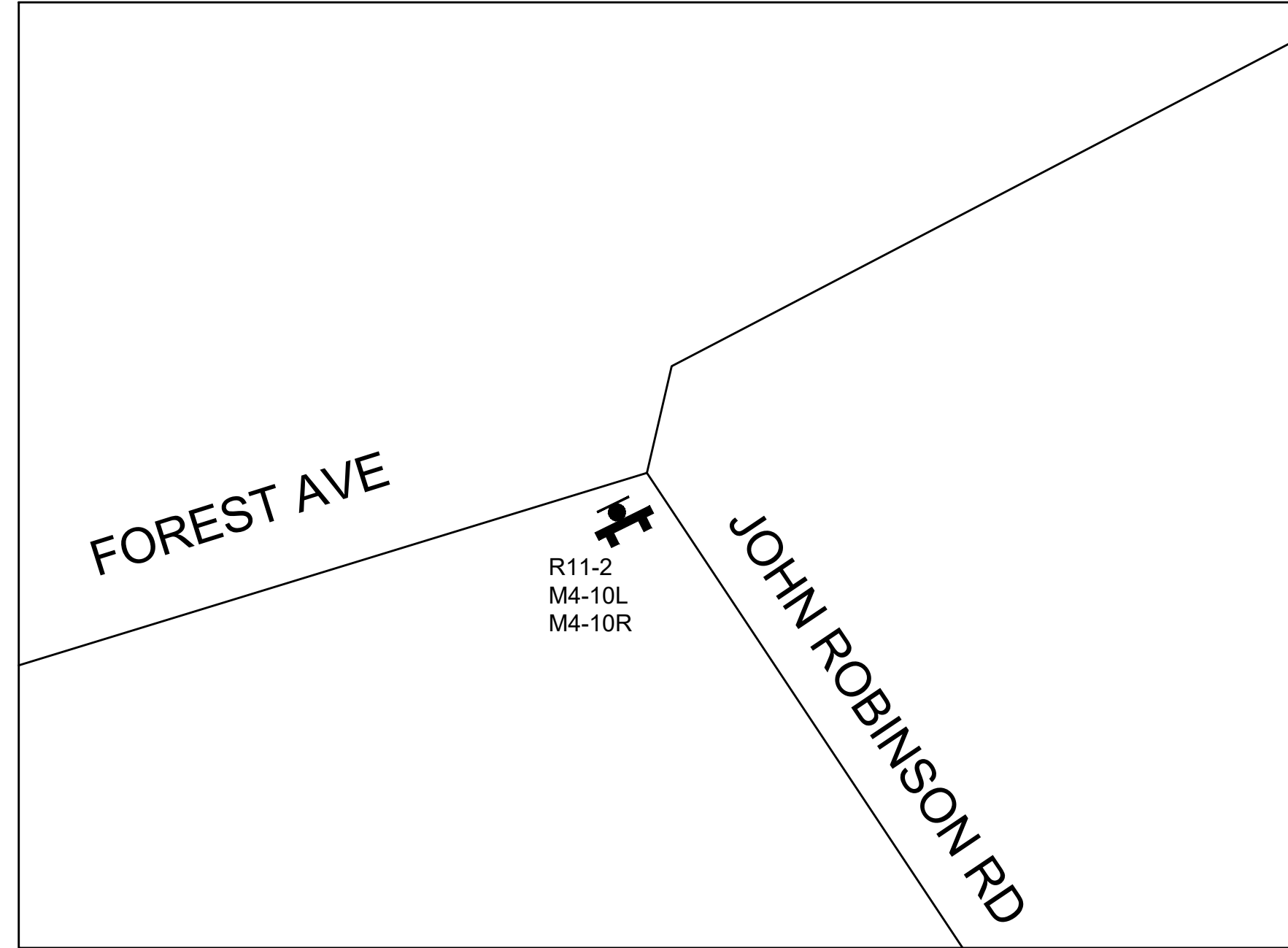
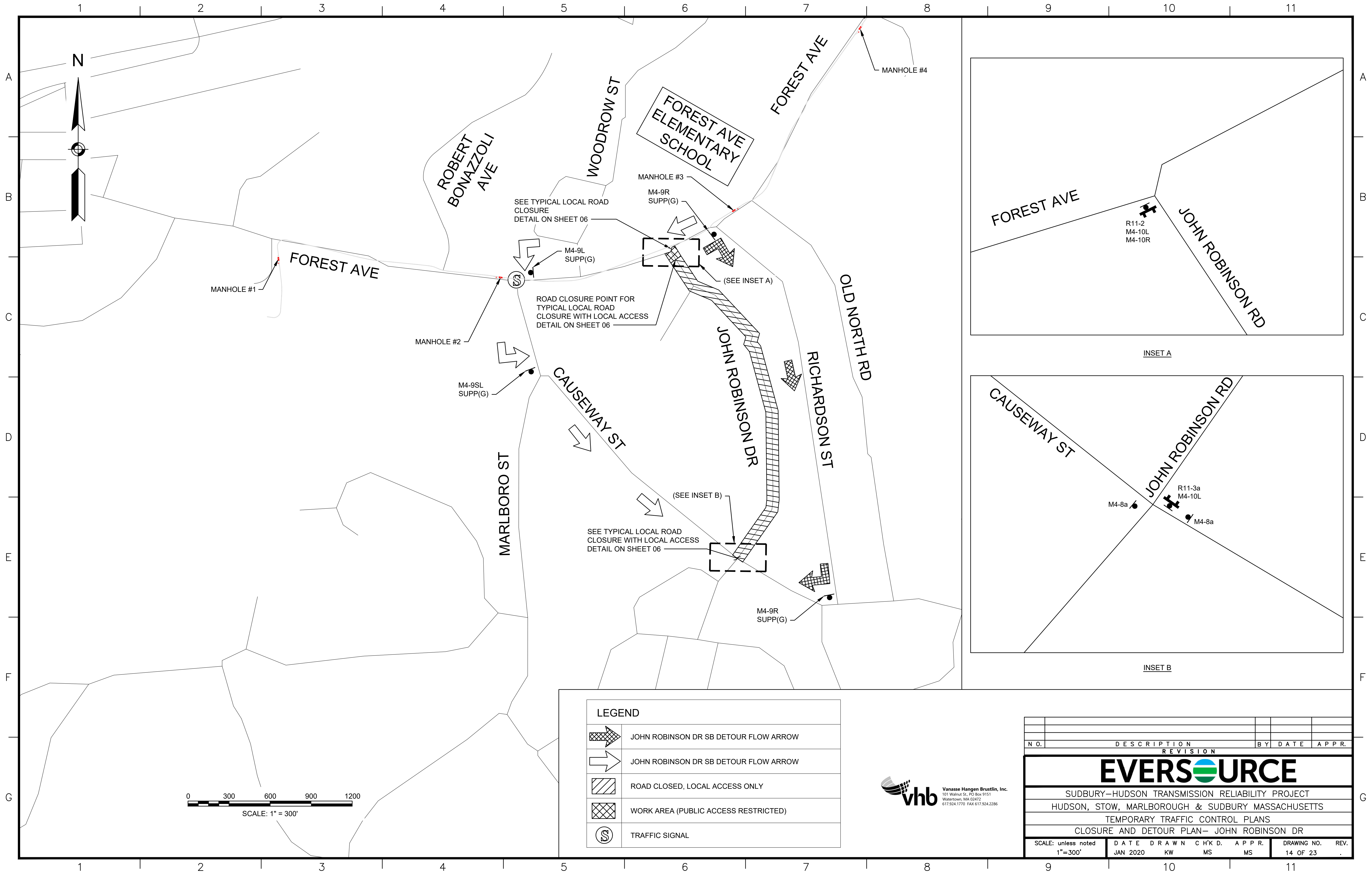
- NOTES:
- W5-1, MA-R2-10a, W20-1c SIGNS SHALL ALSO BE PLACED ON COX STREET IN THE ORDER SHOWN AT 100' SPACING.
 - FOR PCMS MESSAGE AND LOCATION SEE PCMS PLAN - FOREST AVE AT MAIN ST NIGH WORK ON SHEET 21.



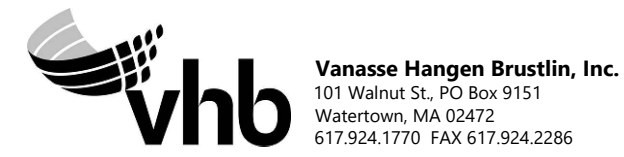
Vanasse Hangen Brustlin, Inc.
101 Walnut St., PO Box 9151
Watertown, MA 02472
617.924.1770 FAX 617.924.2286

N.O.	DESCRIPTION	BY	DATE	APPR.
	REVISION			
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
TEMPORARY TRAFFIC CONTROL PLANS				
SITE SPECIFIC FOREST AVE AT MAIN ST STAGE 4				
SCALE: unless noted 1"=30'	DATE JAN 2020	DRAWN KW	CH'K'D. MS	APPR. MS
DRAWING NO. 13 OF 23				REV.

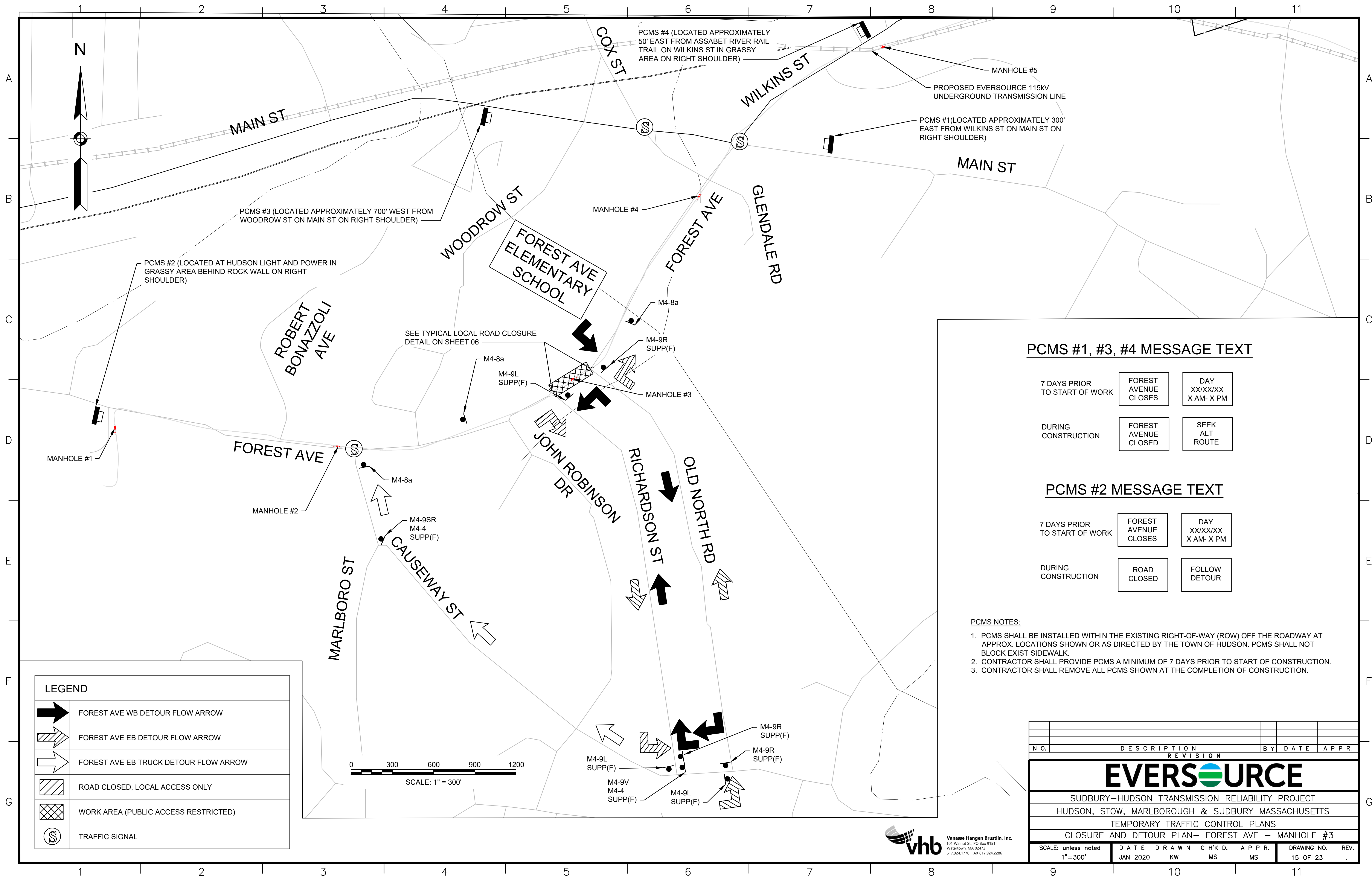
G



LEGEND	
	JOHN ROBINSON DR SB DETOUR FLOW ARROW
	JOHN ROBINSON DR SB DETOUR FLOW ARROW
	ROAD CLOSED, LOCAL ACCESS ONLY
	WORK AREA (PUBLIC ACCESS RESTRICTED)
	TRAFFIC SIGNAL



N O.	DESCRIPTION					BY	DATE	APPR.	
REVISION									
EVERSOURCE									
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT									
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS									
TEMPORARY TRAFFIC CONTROL PLANS									
CLOSURE AND DETOUR PLAN- JOHN ROBINSON DR									
SCALE: unless noted 1"=300'		DATE	DRAWN	C'H'K D.	APPR.	DRAWING NO.		REV.	
		JAN 2020	KW	MS	MS	14 OF 23		.	



LEGEND	
	FOREST AVE WB DETOUR FLOW ARROW
	FOREST AVE EB DETOUR FLOW ARROW
	FOREST AVE EB TRUCK DETOUR FLOW ARROW
	ROAD CLOSED, LOCAL ACCESS ONLY
	WORK AREA (PUBLIC ACCESS RESTRICTED)
	TRAFFIC SIGNAL

PCMS #1, #3, #4 MESSAGE TEXT

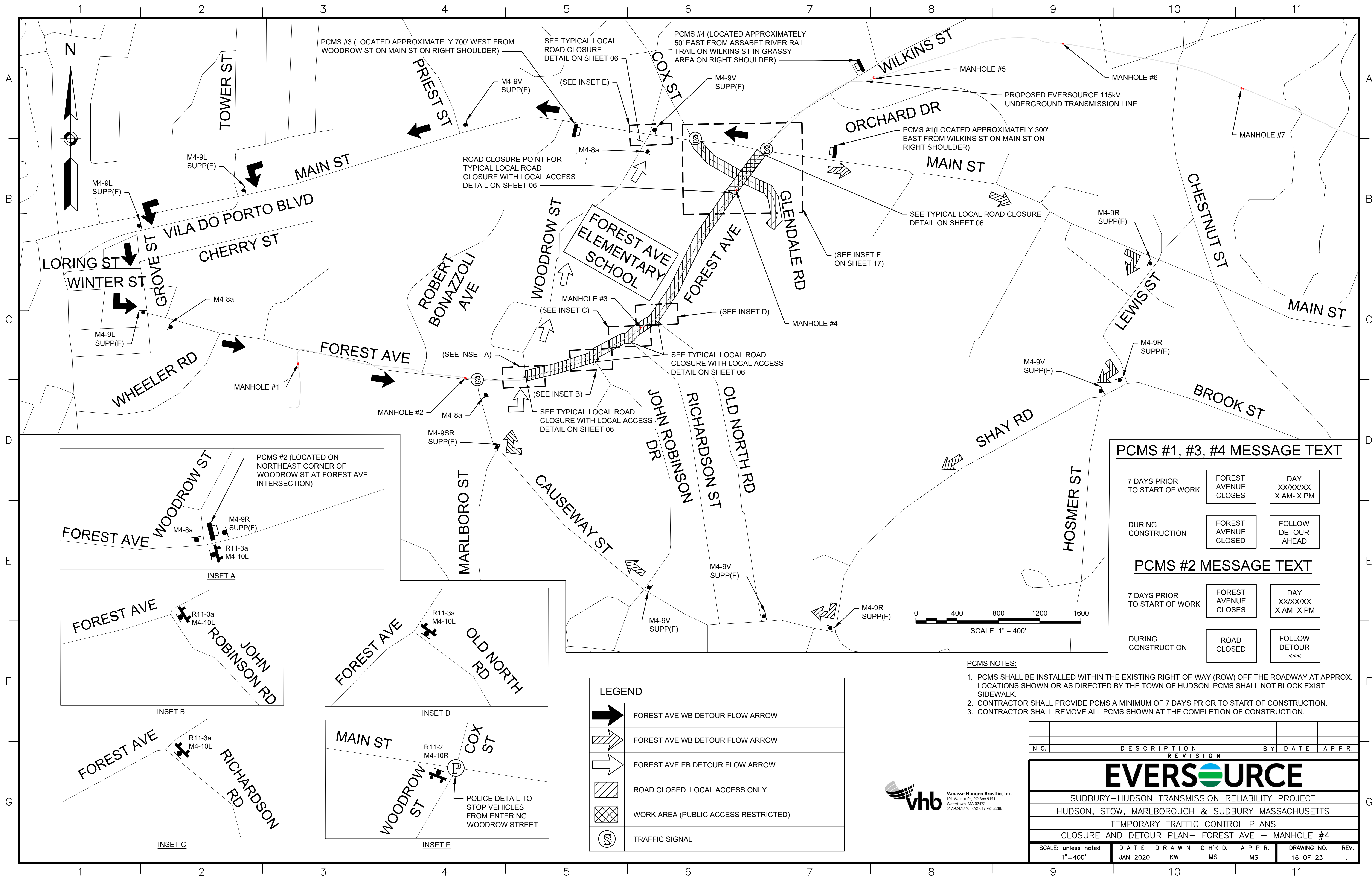
7 DAYS PRIOR TO START OF WORK	FOREST AVENUE CLOSURES	DAY XX/XX/XX X AM- X PM
DURING CONSTRUCTION	FOREST AVENUE CLOSED	SEEK ALT ROUTE

PCMS #2 MESSAGE TEXT

7 DAYS PRIOR TO START OF WORK	FOREST AVENUE CLOSURES	DAY XX/XX/XX X AM- X PM
DURING CONSTRUCTION	ROAD CLOSED	FOLLOW DETOUR

- PCMS NOTES:
- PCMS SHALL BE INSTALLED WITHIN THE EXISTING RIGHT-OF-WAY (ROW) OFF THE ROADWAY AT APPROX. LOCATIONS SHOWN OR AS DIRECTED BY THE TOWN OF HUDSON. PCMS SHALL NOT BLOCK EXIST SIDEWALK.
 - CONTRACTOR SHALL PROVIDE PCMS A MINIMUM OF 7 DAYS PRIOR TO START OF CONSTRUCTION.
 - CONTRACTOR SHALL REMOVE ALL PCMS SHOWN AT THE COMPLETION OF CONSTRUCTION.

N.O.	DESCRIPTION				BY	DATE		APPR.	
REVISION									
EVERSOURCE									
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT									
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS									
TEMPORARY TRAFFIC CONTROL PLANS									
CLOSURE AND DETOUR PLAN- FOREST AVE - MANHOLE #3									
SCALE: unless noted 1"=300'		DATE	DRAWN	C H'K D.	APPR.		DRAWING NO.		REV.
		JAN 2020	KW	MS	MS		15 OF 23		.



PCMS #1, #3, #4 MESSAGE TEXT

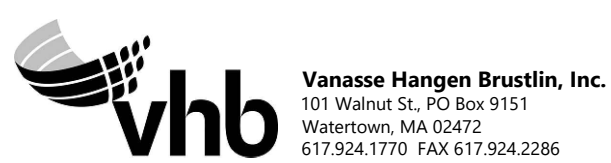
7 DAYS PRIOR TO START OF WORK	FOREST AVENUE CLOSURES	DAY XX/XX/XX X AM- X PM
DURING CONSTRUCTION	FOREST AVENUE CLOSED	FOLLOW DETOUR AHEAD

PCMS #2 MESSAGE TEXT

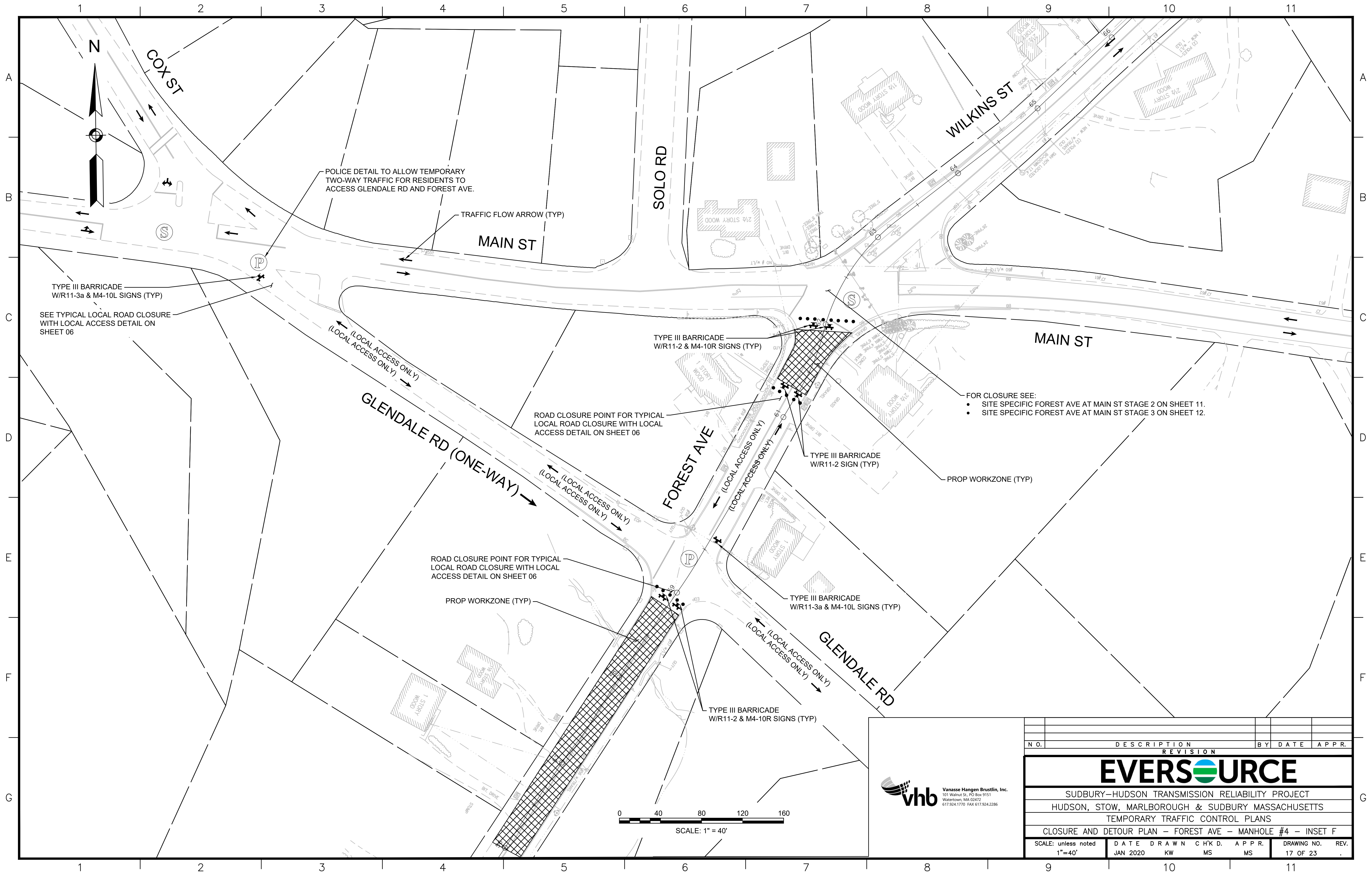
7 DAYS PRIOR TO START OF WORK	FOREST AVENUE CLOSURES	DAY XX/XX/XX X AM- X PM
DURING CONSTRUCTION	ROAD CLOSED	FOLLOW DETOUR <<<


- PCMS NOTES:
- PCMS SHALL BE INSTALLED WITHIN THE EXISTING RIGHT-OF-WAY (ROW) OFF THE ROADWAY AT APPROX. LOCATIONS SHOWN OR AS DIRECTED BY THE TOWN OF HUDSON. PCMS SHALL NOT BLOCK EXIST SIDEWALK.
 - CONTRACTOR SHALL PROVIDE PCMS A MINIMUM OF 7 DAYS PRIOR TO START OF CONSTRUCTION.
 - CONTRACTOR SHALL REMOVE ALL PCMS SHOWN AT THE COMPLETION OF CONSTRUCTION.

LEGEND	
	FOREST AVE WB DETOUR FLOW ARROW
	FOREST AVE WB DETOUR FLOW ARROW
	FOREST AVE EB DETOUR FLOW ARROW
	ROAD CLOSED, LOCAL ACCESS ONLY
	WORK AREA (PUBLIC ACCESS RESTRICTED)
	TRAFFIC SIGNAL



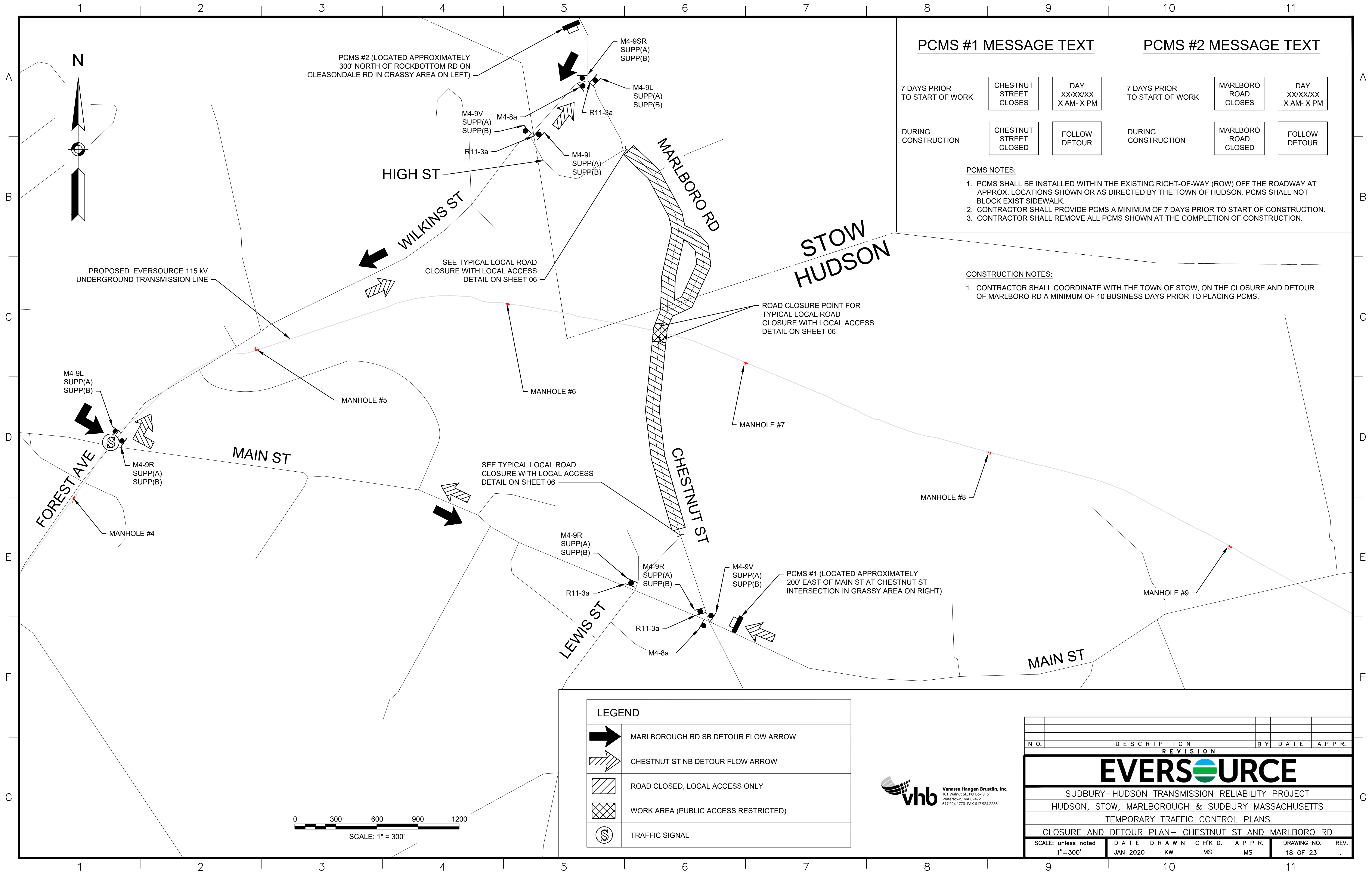
REVISION			
N.O.	DESCRIPTION	BY	DATE
Eversource			
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT			
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS			
TEMPORARY TRAFFIC CONTROL PLANS			
CLOSURE AND DETOUR PLAN- FOREST AVE - MANHOLE #4			
SCALE: unless noted 1"=400'	DATE	DRAWN	CHK'D
	JAN 2020	KW	MS
			MS
DRAWING NO.	REV.		
16 OF 23	.		





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NO.		DESCRIPTION		BY	DATE	APPR.
REVISION						
EVERSOURCE						
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT						
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS						
TEMPORARY TRAFFIC CONTROL PLANS						
CLOSURE AND DETOUR PLAN - FOREST AVE - MANHOLE #4 - INSET F						
SCALE: unless noted 1"=40'		DATE	DRAWN	CHK'D	APPR.	DRAWING NO. REV.
		JAN 2020	KW	MS	MS	17 OF 23



PCMS #1 MESSAGE TEXT

7 DAYS PRIOR
TO START OF WORK

CHESTNUT
STREET
CLOSES

DAY
XX/XX/XX
X AM- X PM

DURING
CONSTRUCTION

CHESTNUT
STREET
CLOSED

FOLLOW
DETOUR

PCMS #2 MESSAGE TEXT

7 DAYS PRIOR
TO START OF WORK

MARLBORO
ROAD
CLOSES

DAY
XX/XX/XX
X AM- X PM

DURING
CONSTRUCTION

MARLBORO
ROAD
CLOSED

FOLLOW
DETOUR

PCMS NOTES:

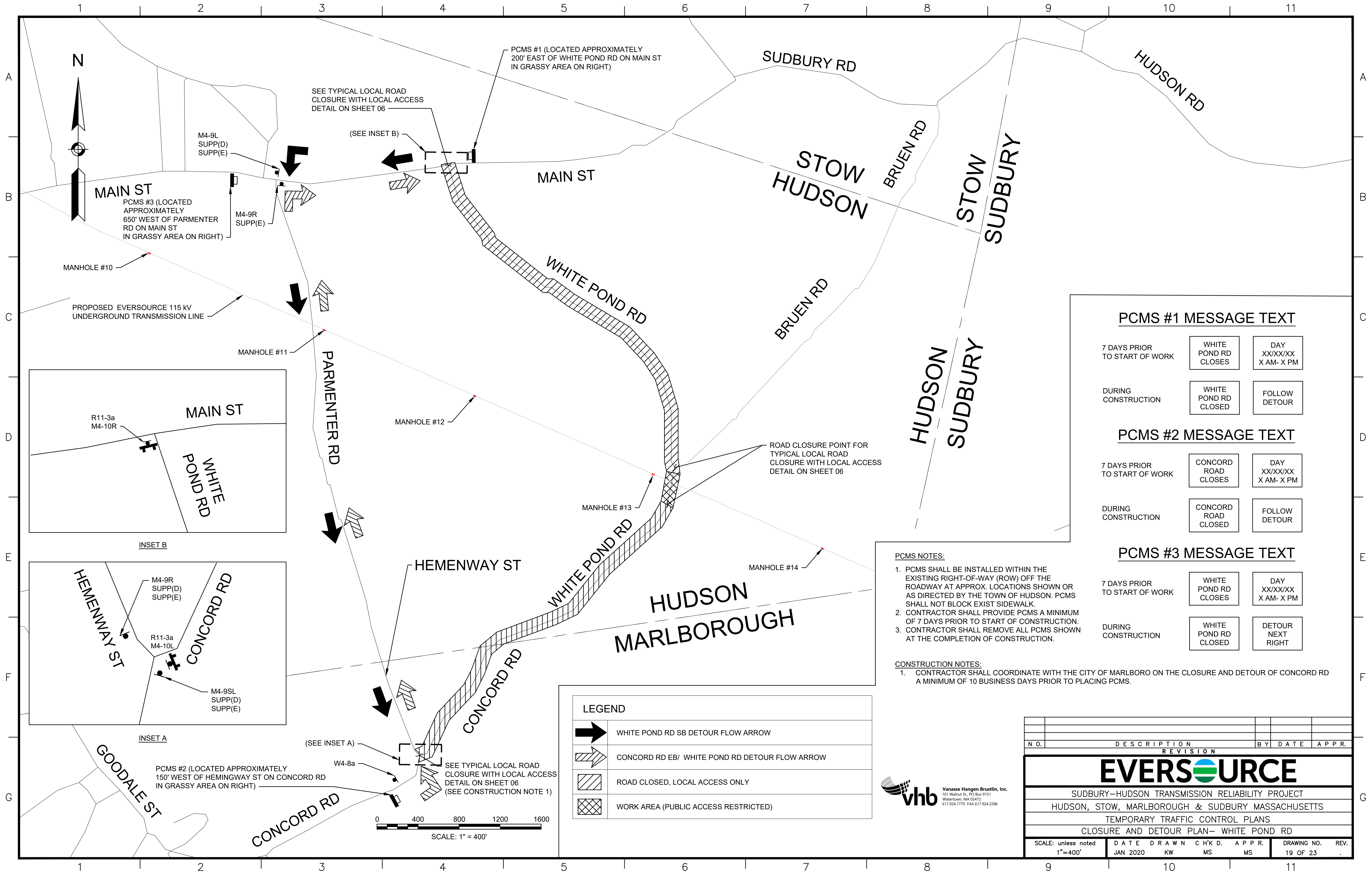
1. PCMS SHALL BE INSTALLED WITHIN THE EXISTING RIGHT-OF-WAY (ROW) OFF THE ROADWAY AT APPROX. LOCATIONS SHOWN OR AS DIRECTED BY THE TOWN OF HUDSON. PCMS SHALL NOT BLOCK EXIST SIDEWALK.
2. CONTRACTOR SHALL PROVIDE PCMS A MINIMUM OF 7 DAYS PRIOR TO START OF CONSTRUCTION.
3. CONTRACTOR SHALL REMOVE ALL PCMS SHOWN AT THE COMPLETION OF CONSTRUCTION.

CONSTRUCTION NOTES:

1. CONTRACTOR SHALL COORDINATE WITH THE TOWN OF STOW, ON THE CLOSURE AND DETOUR OF MARLBORO RD A MINIMUM OF 10 BUSINESS DAYS PRIOR TO PLACING PCMS.



N.O.	DESCRIPTION				BY	DATE	APPR.	
REVISION								
EVERSOURCE								
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT								
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS								
TEMPORARY TRAFFIC CONTROL PLANS								
CLOSURE AND DETOUR PLAN- CHESTNUT ST AND MARLBORO RD								
SCALE: unless noted 1"=300'		DATE	DRAWN	CHK'D.	APPR.	DRAWING NO.		REV.
		JAN 2020	KW	MS	MS	18 OF 23		.



PCMS #1 MESSAGE TEXT

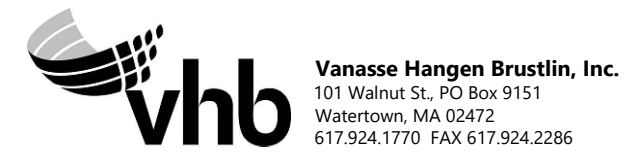
7 DAYS PRIOR TO START OF WORK	WHITE POND RD CLOSURES	DAY XX/XX/XX X AM- X PM
DURING CONSTRUCTION	WHITE POND RD CLOSED	FOLLOW DETOUR

PCMS #2 MESSAGE TEXT

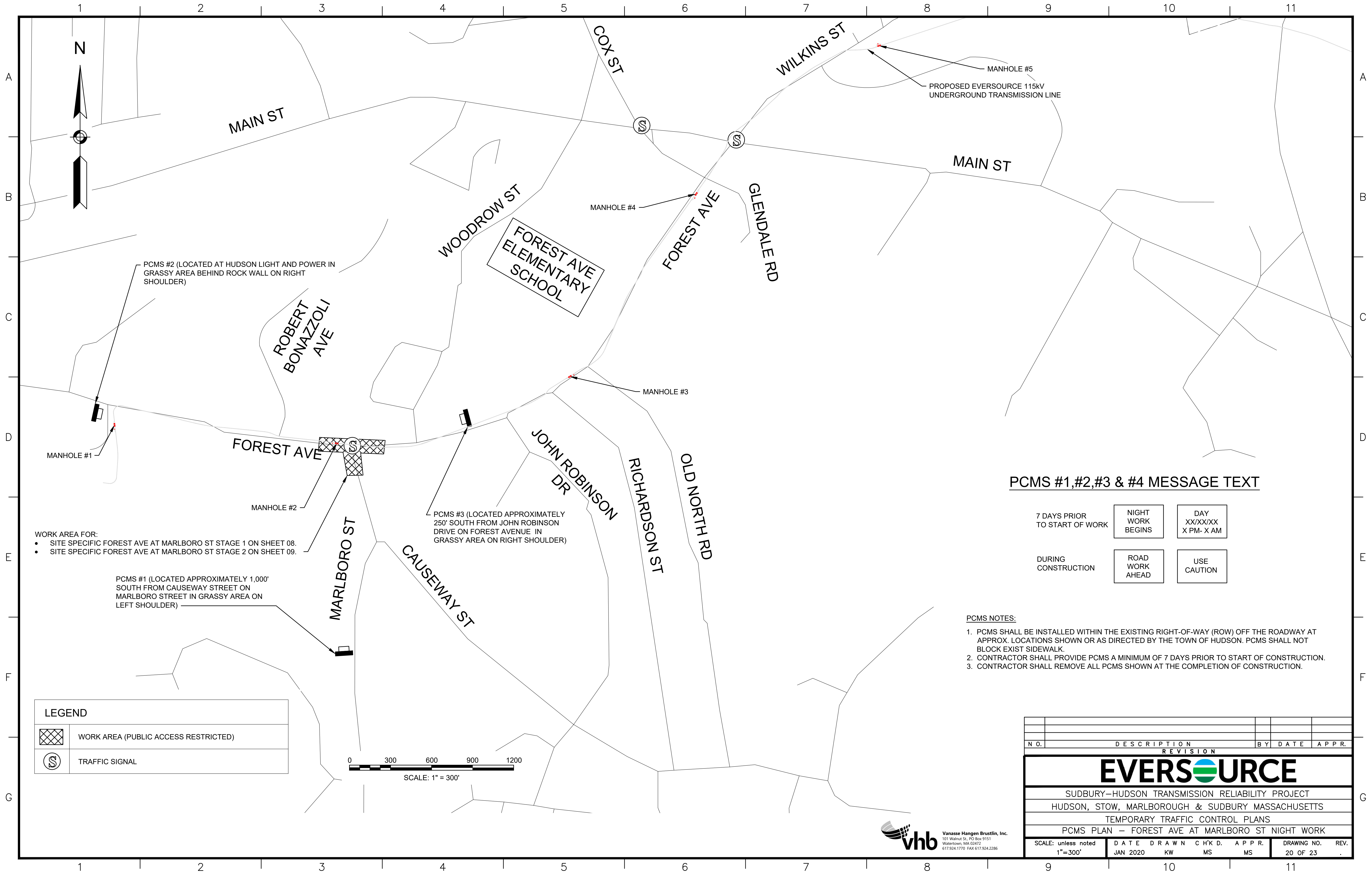
7 DAYS PRIOR TO START OF WORK	CONCORD ROAD CLOSURES	DAY XX/XX/XX X AM- X PM
DURING CONSTRUCTION	CONCORD ROAD CLOSED	FOLLOW DETOUR

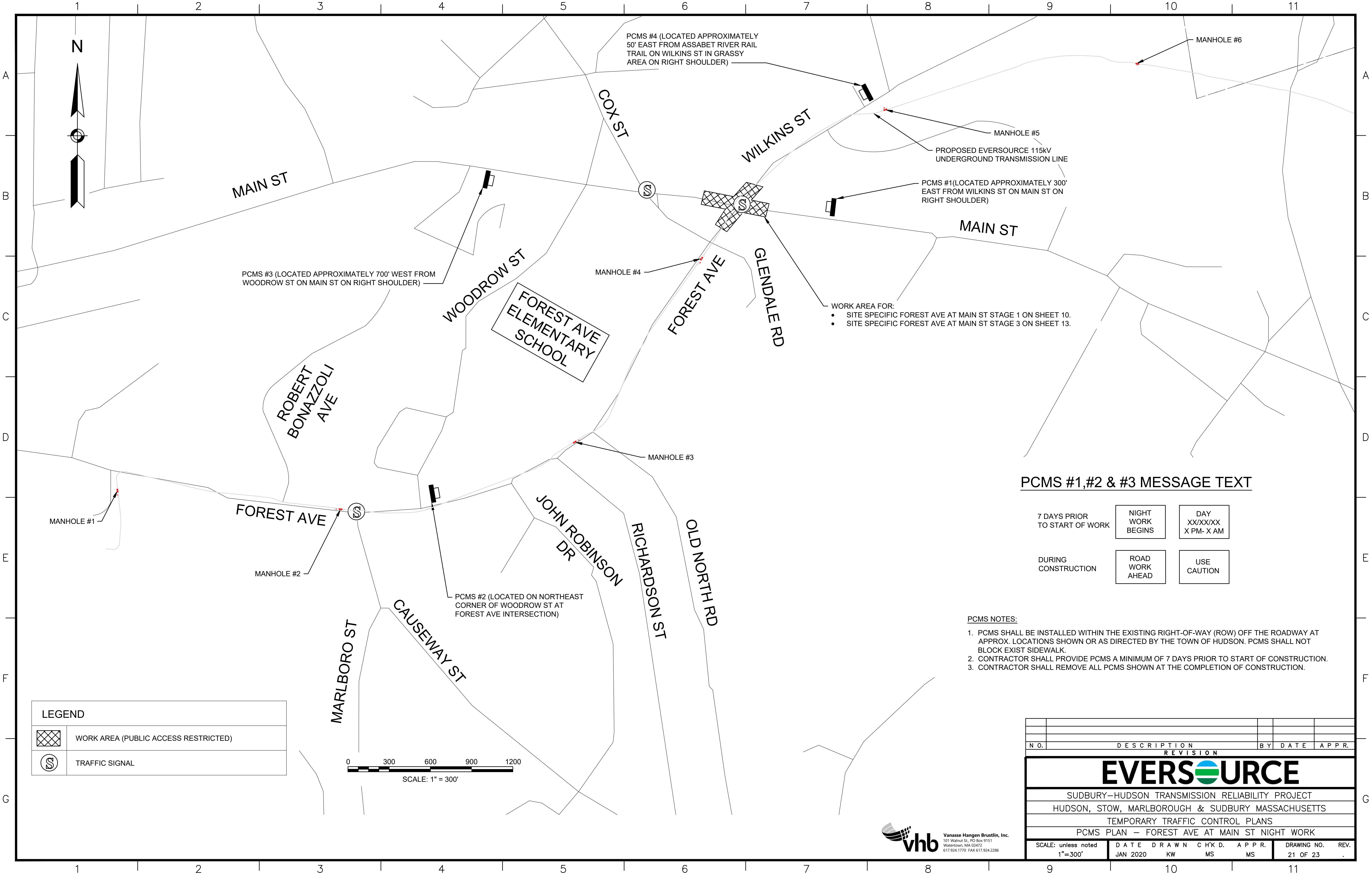
- PCMS #3 MESSAGE TEXT**
- | | | |
|-------------------------------|------------------------|-------------------------|
| 7 DAYS PRIOR TO START OF WORK | WHITE POND RD CLOSURES | DAY XX/XX/XX X AM- X PM |
| DURING CONSTRUCTION | WHITE POND RD CLOSED | DETOUR NEXT RIGHT |
- PCMS NOTES:**
- PCMS SHALL BE INSTALLED WITHIN THE EXISTING RIGHT-OF-WAY (ROW) OFF THE ROADWAY AT APPROX. LOCATIONS SHOWN OR AS DIRECTED BY THE TOWN OF HUDSON. PCMS SHALL NOT BLOCK EXIST SIDEWALK.
 - CONTRACTOR SHALL PROVIDE PCMS A MINIMUM OF 7 DAYS PRIOR TO START OF CONSTRUCTION.
 - CONTRACTOR SHALL REMOVE ALL PCMS SHOWN AT THE COMPLETION OF CONSTRUCTION.
- CONSTRUCTION NOTES:**
- CONTRACTOR SHALL COORDINATE WITH THE CITY OF MARLBORO ON THE CLOSURE AND DETOUR OF CONCORD RD A MINIMUM OF 10 BUSINESS DAYS PRIOR TO PLACING PCMS.

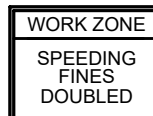

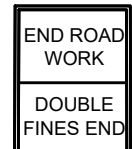













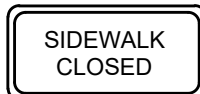




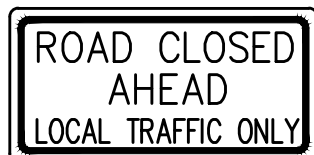




















LEGEND	
	WHITE POND RD SB DETOUR FLOW ARROW
	CONCORD RD EB/ WHITE POND RD DETOUR FLOW ARROW
	ROAD CLOSED, LOCAL ACCESS ONLY
	WORK AREA (PUBLIC ACCESS RESTRICTED)



N.O.	DESCRIPTION	BY	DATE	APPR.	
REVISION					
EVERSOURCE					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
TEMPORARY TRAFFIC CONTROL PLANS					
CLOSURE AND DETOUR PLAN- WHITE POND RD					
SCALE: unless noted 1"=400'	DATE JAN 2020	DRAWN KW	CHK'D MS	APPR. MS	DRAWING NO. REV. 19 OF 23 .

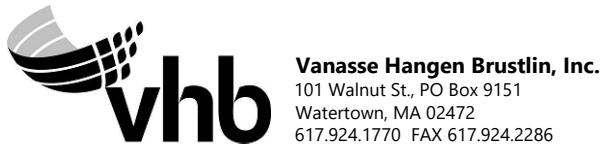




	1	2	3	4	5	6	7	8	9	10	11												
A	TEMPORARY TRAFFIC CONTROL SIGN SUMMARY									TEMPORARY TRAFFIC CONTROL SIGN SUMMARY (CONTINUED)									A				
	IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			COLOR			IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)				COLOR				
		WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.	BACK- GROUND	LEGEND	BORDER		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	W20-2c	36"	36"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			FLUOR- ESCENT ORANGE	BLACK	BLACK			
	MA-R2-10e	36"	48"					WHITE	FLUOR- ESCENT ORANGE	BLACK	BLACK	W20-3c	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK		
B	R1-1	36"	36"					SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			RED	WHITE	WHITE	W20-4c	36"				36"		FLUOR- ESCENT ORANGE	BLACK	BLACK
	R3-1	24"	24"					WHITE	RED/ BLACK	BLACK	W20-7	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK			
	R3-2	24"	24"					WHITE	RED/ BLACK	BLACK	MA-W20-7b	36"	36"					AS PER MASSDOT STANDARD			FLUOR- ESCENT ORANGE	BLACK	BLACK
C	R4-7b	24"	30"					WHITE	BLACK	BLACK	W24-2 (MOD)	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK			
	R9-9	24"	12"					WHITE	BLACK	BLACK	M4-4	24"	12"		SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION"; AS AMENDED			WHITE	BLACK	BLACK			
	R11-2	48"	30"					WHITE	BLACK	BLACK	M4-8a	24"	18"					FLUOR- ESCENT ORANGE	BLACK	BLACK			
D	R11-3a	60"	30"					WHITE	BLACK	BLACK	M4-9L	30"	24"					FLUOR- ESCENT ORANGE	BLACK	BLACK			
	W1-4L	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK	M4-9R	30"	24"					FLUOR- ESCENT ORANGE	BLACK	BLACK			
	W1-4R	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK	M4-9SL	30"	24"					FLUOR- ESCENT ORANGE	BLACK	BLACK			
E	W3-1	36"	36"					FLUOR- ESCENT ORANGE	BLACK RED/ BLACK	BLACK	M4-9SR	30"	24"					FLUOR- ESCENT ORANGE	BLACK	BLACK			
	W5-1	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK	M4-9V	30"	24"					FLUOR- ESCENT ORANGE	BLACK	BLACK			
	W8-1	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK	M4-10L	48"	18"					FLUOR- ESCENT ORANGE	BLACK	---			
F	W8-8	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK	M4-10R	48"	18"					FLUOR- ESCENT ORANGE	BLACK	---			
	W8-9	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK													
G	W20-1c	36"	36"					FLUOR- ESCENT ORANGE	BLACK	BLACK													
		1	2	3	4	5	6	7	8	9	10	11											

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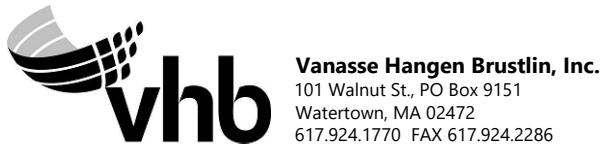
NOTES:
1. HIGH INTENSITY REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. SEE FHWA "STANDARD HIGHWAY SIGNS, 2004 EDITION" FOR TEXT DIMENSIONS, AS AMENDED; THE 1977 MASSHIGHWAY DEPARTMENT CONSTRUCTION AND TRAFFIC STANDARD DETAILS, AS AMENDED, FOR SIGNS AND SUPPORTS; THE MASSHIGHWAY DEPARTMENT SIGN LISTINGS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



N O.	DESCRIPTION					BY	DATE	APPR.	
REVISION									
EVERSOURCE									
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT									
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS									
TEMPORARY TRAFFIC CONTROL PLANS									
SIGN SUMMARY									
SCALE: unless noted NTS		DATE	DRAWN	C H'K D.	APPR.		DRAWING NO.		REV.
		JAN 2020	KW	MS	MS		22 OF 23		.

TEMPORARY TRAFFIC CONTROL SIGN SUMMARY (CONTINUED)									
IDENTIFI- CATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			BACK- GROUND	COLOR	BORDER
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.			
SUPP(A)	48"	12"	MARLBORO RD	6"C	3" 3"	N/A	FLUOR- ESCENT ORANGE	BLACK	BLACK
SUPP(B)	48"	12"	CHESTNUT ST	6"C	3" 3"	N/A	FLUOR- ESCENT ORANGE	BLACK	BLACK
SUPP(D)	36"	24"	WHITE POND RD	6"C 6"C	4" 4" 4"	N/A	FLUOR- ESCENT ORANGE	BLACK	BLACK
SUPP(E)	48"	12"	CONCORD RD	6"C	3" 3"	N/A	FLUOR- ESCENT ORANGE	BLACK	BLACK
SUPP(F)	42"	12"	FOREST AVE	6"C	3" 3"	N/A	FLUOR- ESCENT ORANGE	BLACK	BLACK
SUPP(G)	48"	24"	JOHN ROBINSON DR	6"C 6"C	4" 4" 4"	N/A	FLUOR- ESCENT ORANGE	BLACK	BLACK
SP-1	36"	36"	CAUTION VEHICLES ENTERING	6"C 6"C 6"C	3.5" 3.5"	N/A	FLUOR- ESCENT ORANGE	BLACK	BLACK
SP-2	36"	36"	ROAD CROSSING AHEAD	6"C 6"C 6"C	3.5" 3.5"	N/A	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.



N O.	DESCRIPTION	BY	DATE	APPR.	
REVISION					
EVERSOURCE					
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT					
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS					
TEMPORARY TRAFFIC CONTROL PLANS					
SIGN SUMMARY					
SCALE: unless noted NTS	DATE JAN 2020	DRAWN KW	CH'K D. MS	APPR. MS	DRAWING NO. REV. 23 OF 23 .