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TEMPORARY TRAFFIC CONTROL

- ALL TRAFFIC CONTROL DEVICES SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), VAOT "STANDARD DRAWINGS" AND THE SPECIAL PROVISIONS. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE INCIDENTAL TO CONTRACT ITEM 641.10 TRAFFIC CONTROL.
- ANTICIPATED TYPICAL APPLICATIONS (TA) IN ACCORDANCE WITH THE MUTCD SHALL BE USED DURING THIS PROJECT INCLUDE:
 - TA-1 WORK BEYOND THE SHOULDER
 - TA-4 SHORT DURATION OR MOBILE OPERATION ON A SHOULDER
 - TA-6 SHOULDER WORK WITH MINOR ENCROACHMENT
 - TA-10 LANE CLOSURE ON A TWO-LANE ROAD USING FLAGGERS
 - TA-17 MOBILE OPERATION ON A TWO LANE ROAD
 - TA-27 CLOSURE AT THE SIDE OF AN INTERSECTION
- WHEN WORKING IN THE VICINITY OF EXISTING PEDESTRIAN FACILITIES, AMERICANS WITH DISABILITIES ACT (A.D.A.) ACCESSIBLE PEDESTRIAN ACCOMMODATIONS SHALL BE MAINTAINED AT ALL TIMES. SITE SPECIFIC INFORMATION WILL NEED TO BE PRESENTED WHEN ADA REQUIREMENTS ARE NECESSARY. PAYMENT WILL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 641.10 "TRAFFIC CONTROL".
- THE CONTRACTOR SHALL PROVIDE ACCESS THROUGH THE WORK ZONE FOR ALL EMERGENCY VEHICLES AT ALL TIMES.
- FLAGGERS AND/OR TRAFFIC CONTROL PERSONNEL SHALL DIRECT BICYCLISTS THROUGH THE CONSTRUCTION AREA IN THE SAME MANNER AS VEHICULAR TRAFFIC. PEDESTRIANS, WHEN PRESENT SHALL BE ESCORTED THROUGH THE WORK AREA. THE CONTRACTOR SHALL DESIGNATE AN EMPLOYEE TO ESCORT PEDESTRIANS AROUND THE PERIMETER OF THE CONSTRUCTION SITE.
- PAYMENT FOR CONSTRUCTION SIGNING WILL BE MADE UNDER CONTRACT ITEM 641.10 "TRAFFIC CONTROL".
- THE CONTRACTOR SHALL CONDUCT THE WORK AT ALL TIMES IN SUCH A MANNER AND IN SUCH SEQUENCE SO AS TO ENSURE THE LEAST INTERFERENCE WITH TRAFFIC OCCURS.
- TEMPORARY TRAFFIC CONTROL SIGNS SHALL ONLY BE VISIBLE TO MOTORISTS AT THE TIMES WHEN THE MESSAGE IS PERTINENT, E.G. A "FLAGGER AHEAD" SIGN SHALL ONLY BE VISIBLE TO MOTORISTS WHEN THE FLAGGER IS ACTUALLY PRESENT PERFORMING THEIR DUTIES.
- TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE MOVED AS WORK AREA MOVES. AT NO TIME SHALL THE FLAGGER SIGN BE GREATER THAN 1000 FEET IN ADVANCE OF THE FLAGGER STATION. AS THE CONSTRUCTION OPERATION MOVES, FLAGGER SIGNS SHALL BE MOVED ACCORDINGLY. FLAGGER SIGNS SHALL BE COVERED OR TURNED AWAY FROM TRAFFIC WHEN FLAGGER OPERATIONS CEASE FOR LONGER THAN 15 MINUTES.
- THE CONTRACTOR SHALL COORDINATE WITH THE TOWNS AND UTILITY COMPANIES WITHIN THE PROJECT LIMITS TO ENSURE THAT THE CONTRACTOR'S WORK SCHEDULE AND/OR TRAFFIC CONTROL SIGNS DO NOT CONFLICT WITH TRAFFIC CONTROL SIGNS FOR OTHER CONSTRUCTION PROJECTS, WORK BEING COMPLETED ON OTHER CONSTRUCTION PROJECTS, OR LOCAL EVENTS.

- NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE WITH STOPPING SIGHT DISTANCE AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN THEIR PROPER POSITION AT ALL TIMES AND SHALL BE REPAIRED, REPLACED OR CLEANED IF NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY.
- APPROACH CONSTRUCTION SIGNING SHALL REMAIN IN PLACE DURING ENTIRE CONSTRUCTION PERIOD.
- ITEM 641.10 "TRAFFIC CONTROL" WILL INCLUDE THE FOLLOWING AS NEEDED: APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN VAOT STANDARDS. ALL ADJUSTING, RELOCATING, AND REMOVING OF THESE DEVICES AS DIRECTED BY THE ENGINEER WILL ALSO BE INCLUDED.

SIGN DESIGN AND FABRICATION:

- THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SIGN CODES PROVIDED IN THESE PLANS REFER TO THE 2009 MUTCD WITH ITS LATEST REVISIONS. DESIGN DETAILS FOR SIGNS INDICATED ON THE PLANS, AS FOUND IN THE STANDARD HIGHWAY SIGNS AND MARKINGS BOOK (SHSM), SHALL BE PER THE 2004 SHSM AND THE 2012 SUPPLEMENT TO THE 2004 EDITION.
- SIGN SHEETING FOR FLUORESCENT YELLOW (FY) AND FLUORESCENT YELLOW-GREEN (FYG) SHALL BE ASTM D4956 TYPE VII, VIII, OR IX. ALL OTHER SIGN SHEETING SHALL BE TYPE IV.
- SHEETING TYPES AND SHEETING FABRICATED BY DIFFERENT MANUFACTURERS SHALL NOT BE MIXED ON A SINGLE SIGN ASSEMBLY. SHEETING COLOR/TYPE SHOULD BE BY THE SAME MANUFACTURER AND SHOULD BE CONSISTENT THROUGHOUT THE PROJECT.
- SIGN BASE MATERIAL FOR ALL STREET NAME SIGNS SHALL BE EITHER 0.125 INCH THICK FLAT SHEET ALUMINUM OR EXTRUDED ALUMINUM WITH A 0.250 INCH THICK FLANGE AND 0.090 INCH MINIMUM WEB THICKNESS. UNLESS OTHERWISE NOTED ON THE PLANS, ALL SIGNS SHALL BE FLAT SHEET ALUMINUM WITH THE FOLLOWING MINIMUM THICKNESSES:

SIGN SIZE	12" X 12"	--	--
	18" X 18"	--	--
	21" X 15"	--	--
	24" X 8"	--	--
	24" X 10"	--	48" X 18"
	24" X 12"	36" X 12"	48" X 24"
	24" X 18"	36" X 15"	48" X 30"
	24" X 24"	36" X 18"	48" X 42"
	24" X 30"	36" X 24"	48" X 48"
	30" X 15"	36" X 36"	48" X 60"
	30" X 18"	36" X 42"	72" X 10"
	30" X 30"	36" X 48"	72" X 12"
30" X 42"	36" X 54"	72" X 20"	
THICKNESS	0.080"	0.100"	0.125"

SIGN POSTS:

- ALL SQUARE STEEL SIGN POSTS SHALL BE INSTALLED IN A NEW ANCHOR. ALL SIGNS INSTALLED IN PAVED OR CONCRETE ISLANDS OR SIDEWALKS SHALL ALSO BE INSTALLED WITH AN 18" SLEEVE. PAYMENT FOR SLEEVE WILL BE CONSIDERED INCIDENTAL TO CONTRACT ITEM 675.341 "SQUARE TUBE SIGN POST AND ANCHOR".
- THE 1.75" SQUARE STEEL POSTS SHALL BE 14 GAGE STEEL. THE 2.0" AND 2.5" SQUARE STEEL POSTS SHALL BE 12 GAGE STEEL.
- DIAMOND-SHAPED ADVANCE WARNING SIGNS 36" AND LARGER WILL REQUIRE TWO POSTS. ASSEMBLIES WITH TWO 30" DIAMOND-SHAPED SIGNS WILL REQUIRE TWO POSTS. POST SPACING SHALL BE AS FOLLOWS:

30" SIGN	15-20"
36" SIGN	18-24"
48" SIGN	24-32"

SIGN INSTALLATION:

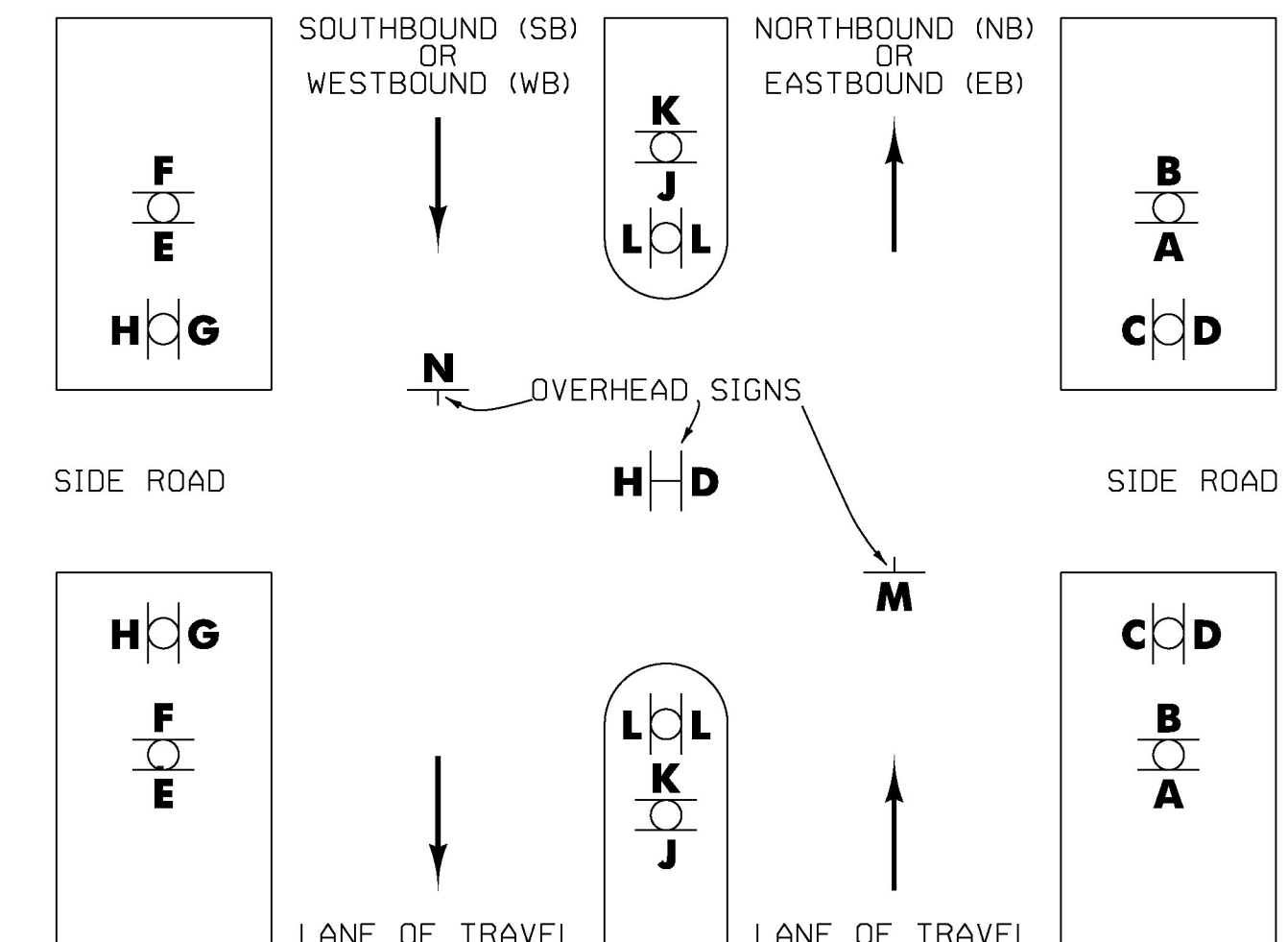
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO PRIVATE OR PUBLIC PROPERTY CAUSED BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE AND AT NO COST TO THE STATE.
- ALL SIGNS WITHIN THE PROJECT LIMITS ARE TO BE REPLACED, UNLESS OTHERWISE NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SIGN LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE; EXACT LOCATIONS TO BE DETERMINED IN THE FIELD.
- ALL SIGN PLACEMENT SHALL BE IN CONFORMANCE WITH VAOT STANDARD E-121 STANDARD SIGN PLACEMENT CONVENTIONAL ROADS, UNLESS OTHERWISE NOTED.
- ALL SIGNS, FRAMES, MOUNTING HARDWARE, POSTS, AND ANCHORS FOR ANY SIGN ASSEMBLY SHALL BE REPLACED AT THE SAME TIME. MIXING OF OLD AND NEW SIGNS ON THE SAME ASSEMBLY WILL NOT BE ALLOWED.
- NEW SIGNS, WITH THEIR GREATER NIGHTTIME RETROREFLECTIVITY, CAN OBSCURE OLDER SIGNS MOUNTED IN CLOSE PROXIMITY TO THEM. TO AVOID CONFUSION OF ROAD USERS, WORK SHALL BE COORDINATED SUCH THAT ALL SIGNS ASSOCIATED WITH A CURVE, INTERSECTION OR SPEED LIMIT CHANGE SHALL BE REPLACED ON THE SAME DAY AND NOT LEFT INCOMPLETE OR WITH A MIXTURE OF OLD AND NEW SIGNS WITHIN A GROUP OF ASSOCIATED SIGNS.
- ALL NEW SIGNS INSTALLATIONS, IF NEAR A UTILITY POLE, SHALL BE NO CLOSER THAN 10 FEET FROM THE UTILITY POLE.

STREET NAME SIGN INSTALLATION:

- SIDE ROAD STREET NAME SIGNS, COMMONLY INSTALLED PERPENDICULAR TO APPROACHING MAINLINE TRAFFIC, SHALL BE POSITIONED IN SUCH A WAY AS TO ENSURE THE BEST POSSIBLE VISIBILITY TO APPROACHING MAINLINE TRAFFIC FROM EACH DIRECTION. IN MOST CASES, STREET NAME SIGNS MAY BE INSTALLED ABOVE THE SIDE ROAD STOP SIGN. THE STREET NAME SIGN MAY BE INSTALLED A MINIMUM OF SIX FEET FROM THE EDGE OF PAVEMENT OF THE MAINLINE ROUTE TO THE NEAREST EDGE OF THE SIGN.
- STREET NAME SIGNS WITH A LENGTH EXCEEDING 42-INCHES SHALL BE INSTALLED ON TWO POSTS. NO MORE THAN TWO POSTS SHALL OCCUPY AN EIGHT FOOT TRAVEL PATH, UNLESS PROTECTED BY BARRIER.
- TOP-MOUNTED STREET NAME SIGNS SHALL REQUIRE 12-INCH MOUNTING BRACKETS. MOUNTING BRACKET WITH DOUBLE-SIDED SIGN AND ALL MOUNTING HARDWARE IS INCIDENTAL TO PAY ITEM 675.20 "TRAFFIC SIGNS, TYPE A".
- IF EXISTING STREET SIGNS ARE SALVAGED, THEY SHALL BE RE-INSTALLED PER THE ABOVE NOTES OR AS DIRECTED BY THE ENGINEER.
- STREET NAME SIGNS FOR PRIVATE ROADS SHALL BE RETAINED, UNLESS OTHERWISE NOTED OR AS DIRECTED BY THE ENGINEER.

GENERAL NOTES:

- EXISTING STAND-ALONE MILE MARKER SIGNS OR MILE MARKER SIGNS ATTACHED TO A RETAINED SIGN POST ASSEMBLY SHALL BE RETAINED.
- EXISTING MILE MARKER SIGNS ON SIGN POST BEING REPLACED SHALL BE REMOVED AND SALVAGED ONTO THE NEW SIGN POST, UNLESS OTHERWISE NOTED ON THE APPLICABLE SIGN SUMMARY SHEET OR AS DIRECTED BY THE ENGINEER.
- EXISTING MILE MARKER SIGNS ATTACHED TO A SIGN ASSEMBLY THAT IS TO BE REMOVED OR RELOCATED SHALL BE REMOVED AND DISPOSED OF, UNLESS OTHERWISE NOTED ON THE APPLICABLE SIGN SUMMARY SHEET OR AS DIRECTED BY THE ENGINEER.
- EXISTING UNDERGROUND AND AERIAL FACILITIES ARE LOCATED THROUGHOUT THE ENTIRE PROJECT AREA. OWNERSHIP OF THESE FACILITIES INCLUDES OPERATIONAL UTILITY COMPANIES, MUNICIPALITIES AND INDIVIDUAL PROPERTY OWNERS. THESE UNDERGROUND AND AERIAL FACILITIES WILL NOT REQUIRE ADJUSTMENT DURING CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR IS CAUTIONED TO PROTECT THESE FACILITIES FROM DAMAGE.
- FOR ESTIMATING PURPOSES, 15 FEET OF ITEM 675.341 "SQUARE TUBE SIGN POST AND ANCHOR" HAS BEEN USED FOR EACH SQUARE STEEL POST. ACTUAL LENGTHS WILL BE DETERMINED IN THE FIELD.



TRAFFIC SIGN LOCATION CODES

THE TRAFFIC SIGN LOCATION CODES ARE TO BE USED IN CONJUNCTION WITH THE SIGN SUMMARY SHEETS TO ESTABLISH PROPER SIGN INSTALLATION IN THE FIELD.

PROJECT NAME:	STATEWIDE - NORTHWEST		
PROJECT NUMBER:	STPG SIGN (58)		
FILE NAME:	z16T042notes.dgn	PLOT DATE:	3/10/2017
PROJECT LEADER:	B. BRESLEND	DRAWN BY:	O. DALMER
DESIGNED BY:	B. BRESLEND	CHECKED BY:	C. LATHROP
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