

GENERAL TCP NOTES & TABLES

PRROW20241194

GENERAL NOTES:

- ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CITY OF PUYALLUP STANDARDS.
- ALL STRIPING AND MARKINGS SHALL CONFORM TO THE STATE OF WASHINGTON DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND STANDARD SPECIFICATIONS.
- TRAFFIC CONES SHALL NOT INTERFERE WITH EXISTING DRIVEWAYS, SCHOOL ZONES, OR BUS STOPS.
- ALL TEMPORARY TRAVEL LANES SHALL BE A MINIMUM OF 10' WIDE.
- FLASHING YELLOW BEACONS, TYPE "B", SHALL BE USED ON ALL W20-1 SIGNS AND ON ALL TYPE III BARRICADES GUARDING THE WORK OVERNIGHT.
- ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE.
- ALL TUBULAR DELINEATORS AND CONES SHALL BE 28" MINIMUM HEIGHT, REFLECTORIZED AND MAINTAINED ERECT IN THE INDICATED POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED, OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY, AND SHALL INCLUDE A 12" HIGH-INTENSITY REFLECTORIZED SLEEVE..
- THE CONTRACTOR SHALL MAINTAIN, ON A CONTINUOUS BASIS, ALL SIGNS, DELINEATORS, BARRICADES, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC DURING CONSTRUCTION.
- THE CONTRACTOR SHALL HAVE SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
- CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ABUTTING PROPERTY OWNERS.
- ADDITIONAL TRAFFIC CONTROLS, TRAFFIC SIGNS OR BARRICADING MAY BE REQUIRED IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL DEVICES NECESSARY TO ASSURE THE SAFETY TO THE PUBLIC AT ALL TIMES DURING CONSTRUCTION.
- SIDEWALK CLOSED SIGNS ARE TO BE PRESENT ANYTIME A PEDESTRIAN WALKWAY IS CLOSED.
- WHERE IT HAS BEEN DETERMINED THAT THE ACCOMMODATION OF PEDESTRIANS WITH DISABILITIES IS NECESSARY, SIGNS SHALL BE MOUNTED AND PLACED IN ACCORDANCE WITH SECTION 4.4 OF THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAAG)"
- EXACT LOCATION AND TYPE OF CONSTRUCTION SIGNS SHALL BE DIRECTED BY THE CONTRACTOR BASED UPON CONSTRUCTION CONDITIONS.
- MOVE DELINEATORS AND/OR CONES TO SIDEWALK DURING NON-WORKING HOURS. REMOVE BARRICADES ETC., FROM TRAVEL LANE.
- REMOVE OR TURN OFF SIGNS DURING NON-WORKING HOURS.
- ALL CONFLICTING LINES, EXISTING CURB PAINT, AND MARKINGS SHALL BE REMOVED BY WET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW/TEMPORARY STRIPING. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED. PAVEMENT THAT IS DAMAGED DUE TO REMOVAL OF MARKERS SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER AND/OR STATE INSPECTOR.
- DIMENSIONS BASED ON RECORD DRAWINGS AND NOT A SURVEY.
- TIME OF LANE CLOSURE TO BE IN ACCORDANCE WITH REQUIREMENTS OF JURISDICTION.
- ADDITIONAL ADVANCED FLAGGERS MAY BE REQUIRED. FLAGGER SHOULD STAND IN A CONSPICUOUS PLACE, BE VISIBLE TO APPROACHING TRAFFIC. PLACE A MINIMUM OF FOUR CONES AT 40-FT INTERVAL IN ADVANCE OF FLAGGER STATION AS SHOWN.
- TABLES AND SIGNAGE DISPLAYED SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CHAPTER 6.

TABLE 6C-1. RECOMMENDED ADVANCE WARNING SIGN MINIMUM SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS** (FT)		
	A	B	C
URBAN (LOW SPEED)*	100	100	100
URBAN (HIGH SPEED)*	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* SPEED CATEGORY TO BE DETERMINED BY HIGHWAY AGENCY
 ** THE COLUMN HEADING A,B AND C ARE THE DIMENSION SHOWN IN FIGURES 6H-1 THROUGH 6H-46 IN CHAPTER 6H OF THE MUTCD. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGNS. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE "FIRST SIGN" IS THE SIGN IN A THREE-SIGN SERIES THAT IS CLOSEST TO THE TTC ZONE. THE "THIRD SIGN" IS THE SIGN THAT IS FURTHEST UPSTREAM FROM THE TTC ZONE.)

TABLE 6C-2. STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED

SPEED (MPH)	DISTANCE (FT)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

* POSTED SPEED, OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED

TABLE 6C-3. TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5 L
SHOULDER TAPER	AT LEAST 0.33 L
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FT MINIMUM, 100 FT MAXIMUM
DOWNSTREAM TAPER	50 FT MINIMUM, 100 FT MAXIMUM

NOTE: USE TABLE 6C-4 TO CALCULATE L

TABLE 6C-3. TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

SPEED (S)	TAPER LENGTH (L) IN FEET(FT)
40 MPH OR LESS	$L = WS^2/60$
45 MPH OR MORE	$L = WS$

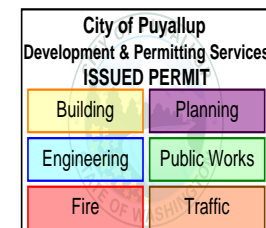
WHERE: L = TAPER LENGTH IN FT W= WIDTH OF OFFSET IN FT
 S= POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH

LICENSE PLATE READER CAMERA
INSTALLATION

CASE NUMBER: 661843
PERMITTING JURISDICTION:
CITY OF PUYALLUP

frock safety

1170 HOWELL MILL ROAD SUITE 210
ATLANTA, GA 30318



REV	DATE	BY	DESCRIPTION
-	-	-	-
-	-	-	-
-	-	-	-
1	8/6/2024	TJB	REVISION
0	07/11/2024	KO	PRELIM

I HEREBY CERTIFY THIS DOCUMENT WAS PREPARED BY MYSELF OR UNDER MY DIRECT SUPERVISION THAT I AM A DULY REGISTERED ENGINEER UNDER THE LAWS OF THE STATE OF WASHINGTON.

PUYALLUP POLICE DEPARTMENT
311 W PIONEER PUYALLUP
WA 98371

COVER SHEET & LOCATION MAPS

SHEET: TCP.01 REV: 0

PRROW20241194

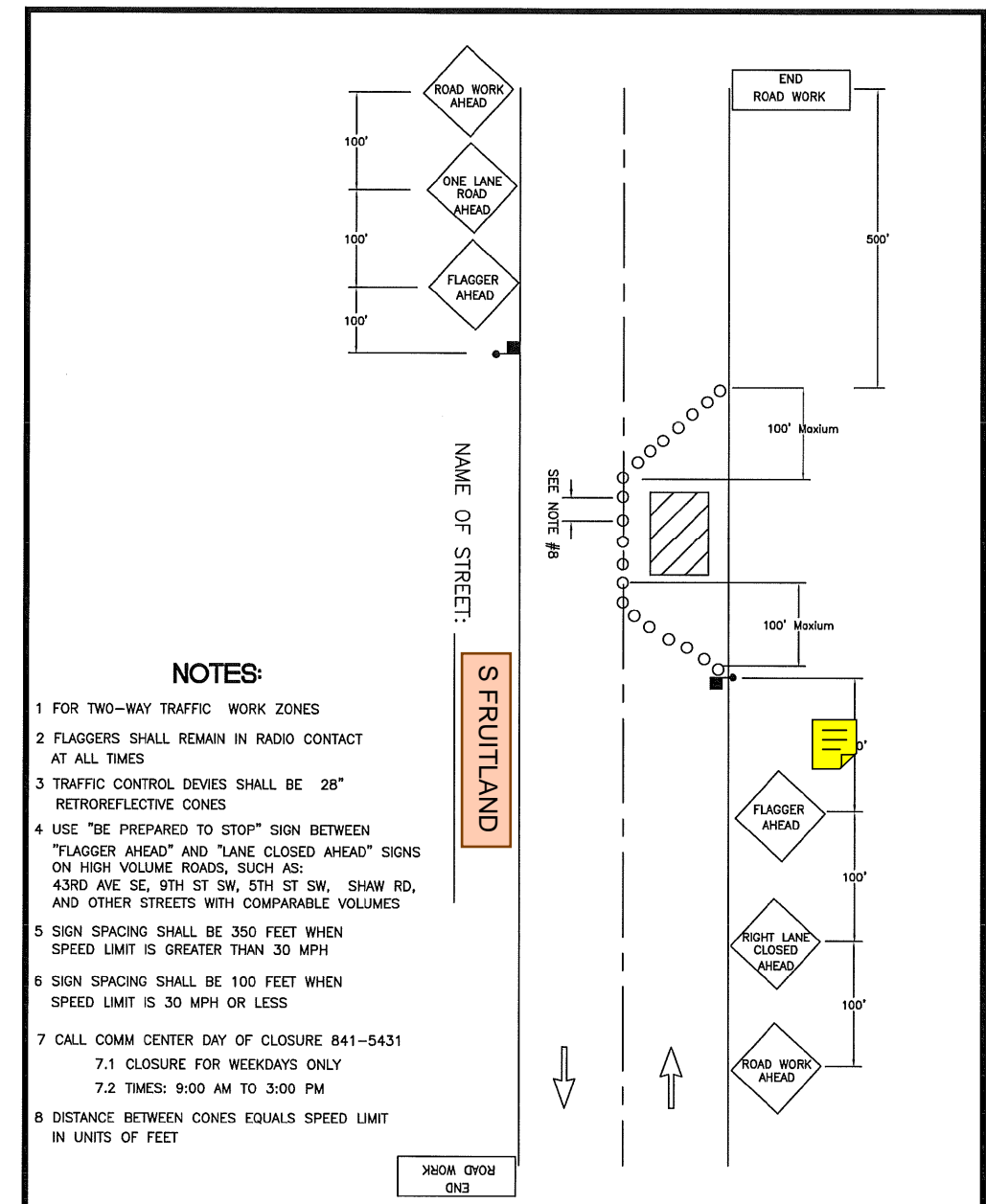
CLOSURE ALLOWED:
 Monday - Thursday
 9AM - 2PM
 Call communications center at
 253-287-4456 on day of closure.
 Request a job start inspection
 through the CityView portal.

The City-issued permit packet
 shall be posted at the job site and
 available to inspectors at all times.

Lane Taper Length =

$$\frac{(\text{width of taper offset}) \times (\text{speed limit})^2}{(\text{width of taper typically measured as width of lane})}$$

- Traffic control devices shall be 28 inch retro-reflective cones.
- Taper length equals width of offset times speed limit squared divided by 60.
- Sign spacing shall be 100 feet when speed limit is 30 mph or less.
- Sign spacing shall be 350 feet when speed limit is greater than 30 mph.
- Distance between cones equals speed limit in unit-feet.
- Travel lane width must be a minimum of 11 feet at all times.
- All flaggers and spotters shall remain in radio contact at all times.



NOTES:

- FOR TWO-WAY TRAFFIC WORK ZONES
- FLAGGERS SHALL REMAIN IN RADIO CONTACT AT ALL TIMES
- TRAFFIC CONTROL DEVICES SHALL BE 28" RETROREFLECTIVE CONES
- USE "BE PREPARED TO STOP" SIGN BETWEEN "FLAGGER AHEAD" AND "LANE CLOSED AHEAD" SIGNS ON HIGH VOLUME ROADS, SUCH AS: 43RD AVE SE, 9TH ST SW, 5TH ST SW, SHAW RD, AND OTHER STREETS WITH COMPARABLE VOLUMES
- SIGN SPACING SHALL BE 350 FEET WHEN SPEED LIMIT IS GREATER THAN 30 MPH
- SIGN SPACING SHALL BE 100 FEET WHEN SPEED LIMIT IS 30 MPH OR LESS
- CALL COMM CENTER DAY OF CLOSURE 841-5431
 7.1 CLOSURE FOR WEEKDAYS ONLY
 7.2 TIMES: 9:00 AM TO 3:00 PM
- DISTANCE BETWEEN CONES EQUALS SPEED LIMIT IN UNITS OF FEET

CITY OF PUYALLUP
TRAFFIC ENGINEERING
 DIVISION

LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS

DRAWN J. HUNTER	PLOTTING SCALE NTS/ 1=1	DATE APPROVED 04-03	REVISED 09-30-09	TCP STANDARD
FILE NAME I:\DRAWINGS\PUBLIC WORKS\TRAFFIC\TCP	CHECKED BY M. FORD	REVISED BY S. TANGLE	NO. 7	

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**LICENSE PLATE READER CAMERA
 INSTALLATION**

CASE NUMBER: 661843
**PERMITTING JURISDICTION:
 CITY OF PUYALLUP**

frock safety

1170 HOWELL MILL ROAD SUITE 210
 ATLANTA, GA 30318

City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

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REV	DATE	BY	DESCRIPTION
-	-	-	-
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PUYALLUP POLICE DEPARTMENT
 311 W PIONEER PUYALLUP
 WA 98371

COVER SHEET & LOCATION MAPS

SHEET: TCP.02	REV: 0
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