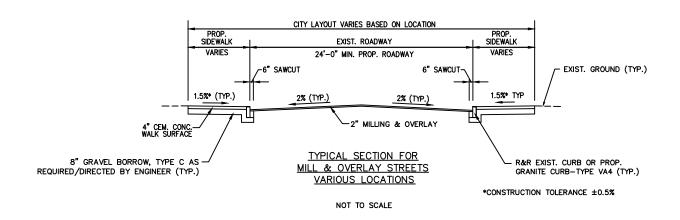
2023 Roadway Rehabilitation and Related Work FULL DEPTH RECONSTRUCTION

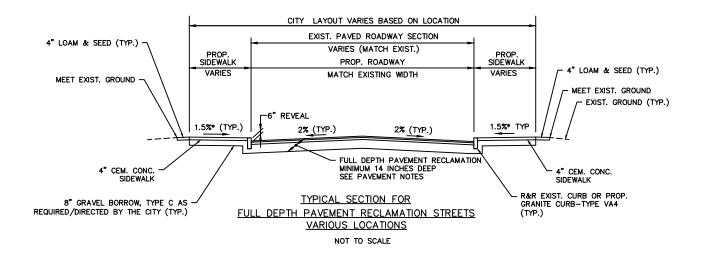
CONTRACT 24-07

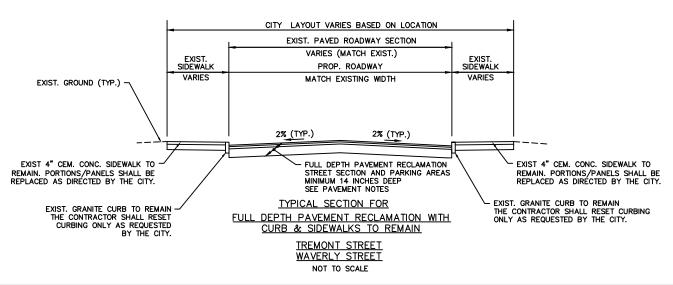
ADDENDUM 2

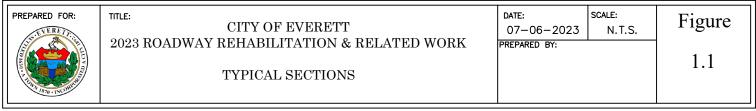
July 18, 2023

Attachment B is enclosed.









PAVEMENT NOTES

MILLING & OVERLAYING EXIST. PAVEMENT

MILLING: 2" EXISTING PAVEMENT MILLING (TYP.) VARY MILLING

DEPTH AS NEEDED TO ACHEIVE 2% CROSS SLOPE 2" HOT MIX ASPHALT TOP COURSE MATERIAL, SURFACE COURSE:

PLACED IN ONE LAYER

BITUMEN FOR TACK COAT (RS-1) APPLIED AT A RATE OF 0.08 GAL./SQ. YD. OVER EXISTING MILLED SURFACE MILL SURFACE PREPARATION:

FULL DEPTH PAVEMENT RECLAMATION

1-1/2" HOT MIX ASPHALT TOP COURSE SURFACE COURSE:

MATERIAL

PLACED IN ONE LAYER BINDER COURSE: 23" HOT MIX ASPHALT BINDER COURSE MATERIAL

PLACED IN ONE LAYER.

BITUMEN FOR TACK COAT (RS-1) APPLIED AT A

RATE OF 0.07 GAL./SQ. YD. OVÉR BINDER SURFACE

SUBBASE: 12" RECLAIMED PAVEMENT FOR SUBBASE

OVERLAY PAVEMENT (AS REQUESTED)

SURFACE COURSE: 1-1/2" HOT MIX ASPHALT TOP COURSE

MATERIAL, PLACED IN ONE LAYER

SURFACE BITUMEN FOR TACK COAT (RS-1) APPLIED AT A PREPARATION:

NOT TO SCALE

RATE OF 0.08 GAL/SQ. YD. OVER THE EXIST.

SURFACE.

BRICK WALK

LOAM & SEED:

HOT MIX ASPHALT DRIVE:

SURFACE COURSE

BASE COURSE

CEMENT CONCRETE DRIVEWAY:

BASE COURSE

CEMENT CONCRETE SIDEWALK

BASE COURSE

SURFACE COURSE

SURFACE COURSE

SURFACE COURSE

4"x8"x2-1/2" BRICK PAVERS HAND TIGHT JOINTS - SWEPT 6:1 STONE DUST: DRY SURFACE

CEMENT MIX VIBRATED AND MISTED

4" HOT MIX ASPHALT PAVEMENT,

8" GRAVEL BORROW — TYPE C AS DIRECTED BY THE CITY OR EXISTING BASE MATERIAL

6" CEMENT CONCRETE PLACED IN ONE

8" GRAVEL BORROW - TYPE C AS DIRECTED BY THE CITY OR EXISTING

4" CEMENT CONCRETE PLACED IN

8" GRAVEL BORROW - TYPE C AS

DIRECTED BY THE CITY OR EXISTING

PLACED IN TWO EQUAL LAYERS

REGRADED AND COMPACTED

REGRADED AND COMPACTED

REGRADED AND COMPACTED

4" LOAM BORROW & SEED

 $\begin{picture}(20,0) \put(0,0){\line(0,0){10}} \put(0,0$ BASE COURSE

COMPACTED GRAVEL SUBBASE FOUNDATION

LAYER

BASE MATERIAL

/ PEDESTRIAN CURB RAMP:

BASE MATERIAL

ONE LAYER

1. MILL & OVERLAY SURFACE COURSE AT LIMITS OF FULL DEPTH PAVEMENT SHALL BE PLACED AT A DEPTH OF 1-1/2".

HOT MIX ASPHALT WALK:

SURFACE COURSE 3" HOT MIX ASPHALT PAVEMENT,

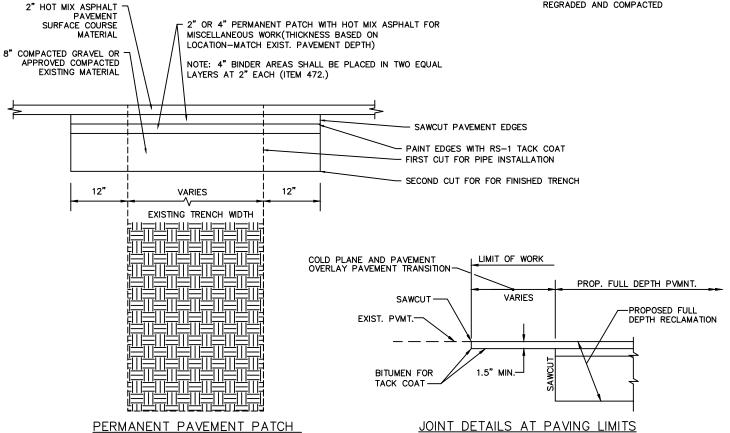
NOT TO SCALE

PLACED IN TWO EQUAL LAYERS

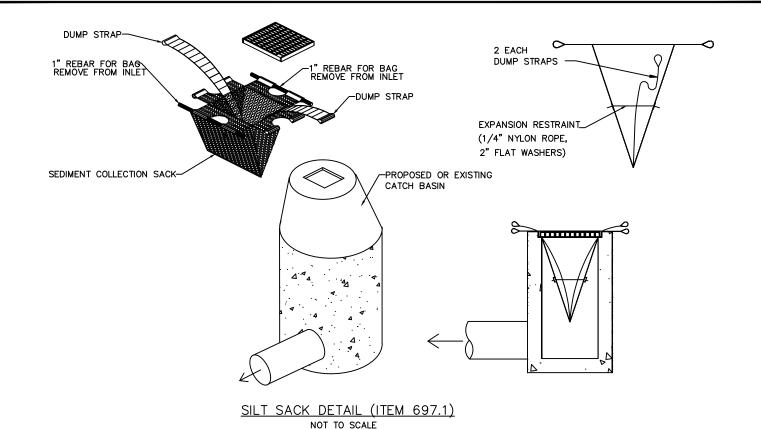
8" GRAVEL BORROW - TYPE C AS BASE COURSE DIRECTED BY THE CITY OR EXISTING

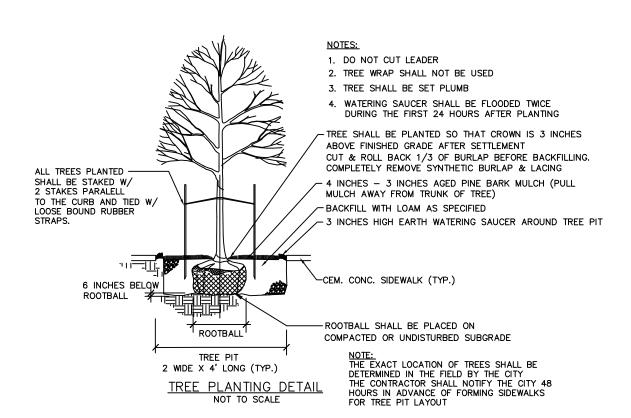
BASE MATERIAL

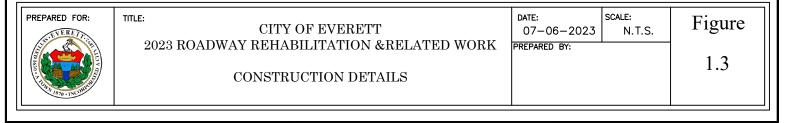
REGRADED AND COMPACTED

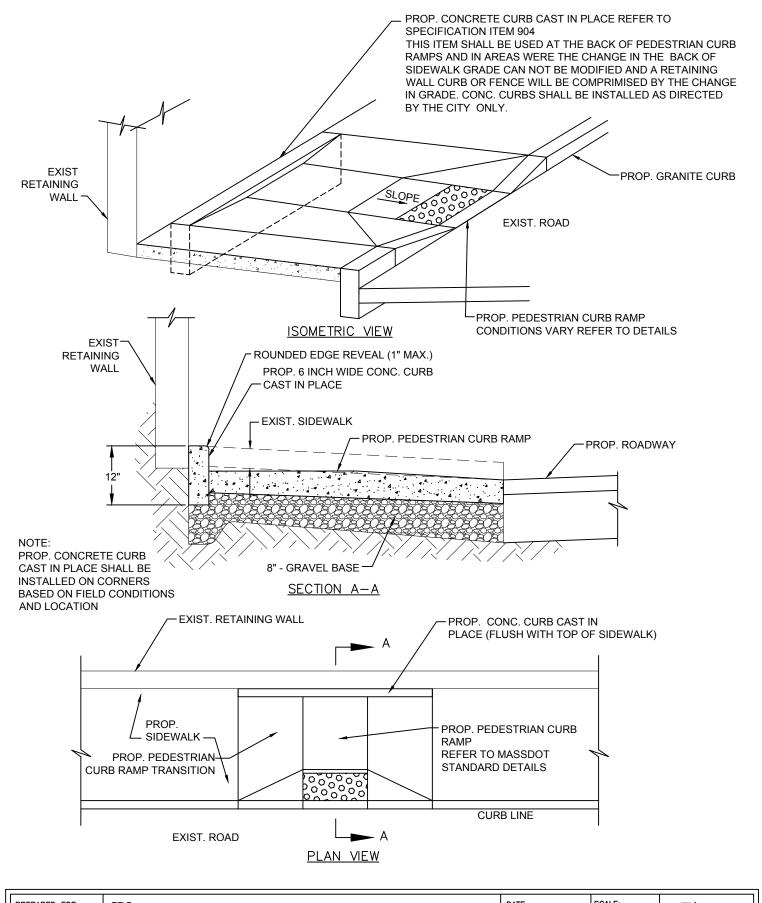


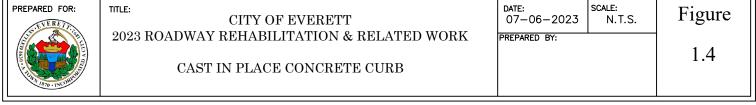
PREPARED FOR: SCALE: TITLE: Figure CITY OF EVERETT 07-06-2023 N.T.S PREPARED BY: 2023 ROADWAY REHABILITATION & RELATED WORK PAVEMENT NOTES & CONSTRUCTION DETAILS

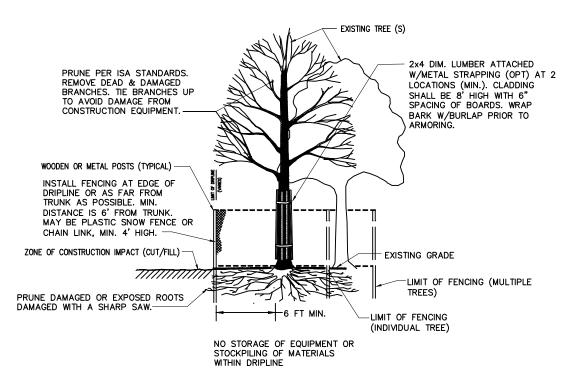




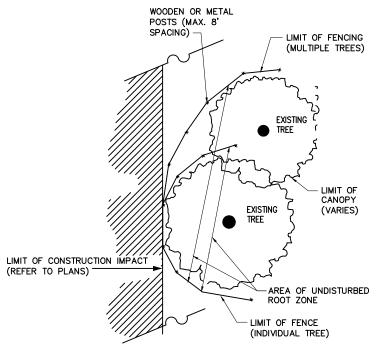






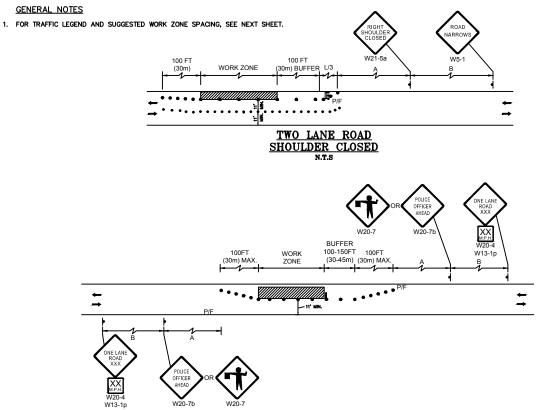


TREE PROTECTION DETAIL NOT TO SCALE

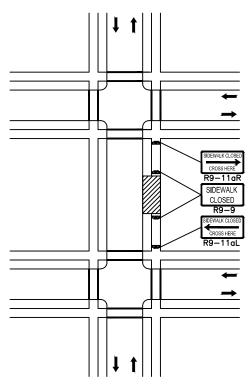


PLAN VIEW

PREPARED FOR: CITY OF EVERETT 2023 ROADWAY REHABILITATION & RELATED WORK TREE PROTECTION DETAILS	DATE: 07-06-2023 PREPARED BY:	SCALE: N.T.S.	Figure 1.5
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$\begin{array}{c|cccc} & \textbf{TWO} & \textbf{LANE} & \textbf{ROAD} \\ \textbf{ONE} & \textbf{LANE} & \textbf{ALTERNATING} & \textbf{TRAFFIC} \\ \textbf{N.T.s.} \end{array}$



IF A MINIMUM WIDTH OF 48" OF SOLID SMOOTH UNDBSTRUCTED 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/MAB COMPLIANT IN THEIR ENTIRETY.

SIDEWALK CLOSED WITH DETOUR

PREPARED FOR: TITLE: CITY OF EVERETT 2023 ROADWAY REHABILITATION & RELATED WORK TRAFFIC MANAGEMENT PLANS

NOTE:

SCALE: 07-06-2023 N.T.S. PREPARED BY:

Figure

1.6

- * ROAD TYPE TO BE DETERMINED BY MASSDOT OFFICE OF TRANSPORTATION PLA
- ** DISTANCES ARE SHOWN IN FEET. THE COLUMN HEADINGS A, B, AND C ARE THE DIMENSIONS SHOWN IN THE DETAIL/ TYPICAL SETUP FIGURES. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE BUSTANCE BETWEEN THE REST. AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. THE TRANSITION OF THE THIRD SIGNS IS THE FIRST ONE TYPICALLY ENCOUNTERED BY A DRIVER APPROACHING A TEMPORARY TRAFFIC CONTROL (TTC) ZONE.)

THE "THIRD" SIGN ABOVE IS TYPICALLY REFERRED TO AS AN "ADVANCE WARNING" SIGN ON THE TTCP SETUPS. THESE ADVANCE WARNING SIGNS ARE LOCATED PRIOR TO THE PROJECT LIMITS ON ALL APPROACHES (I.e. THE WZO-1 SERIES (ROAD WORK XX FT) SIGNS), AND USUALLY REMAIN FOR THE DURATION OF THE PROJECT. ADDITIONAL SIGNS (I.e. "RIGHT LANE CLOSED 1 MILE" AND "LEFT LANE CLOSED 1 MILE" HAVE BEEN SHOWN IN SOME FIGURES OF REINFORCEMENT SIGN PLACEMENT BUT ARE CUSCI IN TRAGE COCCASIONS.

THE FIRST AND SECOND WARNING SIGNS ABOVE ARE REFERRED TO AS THE OPERATIONAL (DAY-TO-DAY) WORK ZONE SIGNS AND MAY BE MOVED DEPENDING ON WHERE THE SPECIFIC ROADWAY WORK FOR THAT DAY IS LOCATED.

R2-10a SIGNS SHALL BE PLACED BETWEEN THE SECOND AND THIRD SIGNS AS DESCRIBED ABOVE.

R2-10a, R2-10e, AND W20-1 SERIES SIGNS ARE TO BE INCLUDED ON ALL DETAILS/TYPICAL SETUPS.

Based on: Table 6C-1 MUTCD LATEST EDITION

TRAFFIC MANAGEMENT NOTES

- ALL TRAFFIC MANAGEMENT AND WORK ZONE TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
 WITH ALL REVISIONS INCORPORATED, THE MASSDOT STANDARD SPECIFICATIONS, AND THE FOLLOWING NOTES.
- 2. LANE RESTRICTIONS MAY NOT REMAIN OVERNIGHT OR DURING NON-WORKING HOURS. AFTER EACH WORKING DAY, TRAFFIC CONTROL DEVICES THAT ARE NOT REQUIRED SHALL BE MOVED OFF THE ROADWAY OR FULL DEPTH CONSTRUCTION AREA AND PLACED SO AS NOT TO IMPEDE PEDESTRIAN AREAS, ABUTTER ACCESS OR CAUSE CONFUSION TO MOTORISTS. IN CERTAIN CIRCUMSTANCES, AND ONLY WITH THE APPROVAL OF THE CITY, CAN LANE RESTRICTIONS REMAIN OVERNIGHT, IN WHICH CASE ALL REFLECTORIZED DRUMS SHALL BE FITTED WITH STEADY BURN AND/OR FLASHING WARNING LIGHTS AS DIRECTED BY THE CITY.
- 3. CONTRACTOR SHALL PROVIDE A SAFE TEMPORARY PEDESTRIAN ACCESS WHERE EXISTING SIDEWALKS OR OTHER PEDESTRIAN AREAS ARE AFFECTED BY CONSTRUCTION WORK. MAINTAIN ABUTTER ACCESS AT ALL TIMES EXCEPT FOR SHORT PERIODS APPROVED BY THE CITY.
- PLACE ALL CONSTRUCTION SIGNING, TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS FOR EACH PHASE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ONE (1) THRU TRAVEL LANE HAVING A MINIMUM WIDTH OF 11'-0" SHALL BE PROVIDED FOR BOTH DIRECTIONS (LANE TO BE SHARED AND DIRECTION OF TRAVEL TO ALTERNATE IN SOME SITUATIONS UNDER POLICE OFFICER CONTROL) DURING ALL PHASES OF CONSTRUCTION AS SHOWN ON THE TRAFFIC MANAGEMENT PLANS, UNLESS OTHERWISE DIRECTED BY THE CITY.
- 6. WHEN WORK INFRINGES UPON THE TRAVELED WAY, WORK SHALL BE RESTRICTED TO OFF-PEAK HOURS ONLY. (9:00am TO 3:30pm, MONDAY TO FRIDAY)

- TAPER LENGTH FORMULAE FOR CHANNELIZATION DEWCES: L = SxW FOR SPEED EQUAL TO OR GREATER THAN 45 M.P.H. L = WS²/60 FOR SPEED EQUAL TO OR LESS THAN 40 M.P.H. WHERE: L = MIN. LENGTH OF TAPER, S = POSTED SPEED, W = OFFSET WIDTH.
- 8. PEDESTRIANS SHOULD BE PROVIDED WITH A SAFE CONVENIENT TRAVEL PATH THAT REPLICATES AS NEARLY AS POSSIBLE THE MOST DESIRABLE CHARACTERISTICS OF SIDEWALKS OR FOOTPATHS
- IF EXISTING INTERSECTION IS SIGNALIZED, IT SHOULD BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE SIGNALS FUNCTIONING PROPERLY WHILE CONSTRUCTION IS IN PROGRESS OR UNTIL NEW SIGNALIZATION IS OPERATIONAL. THIS IS MOST CRITICAL IF THE CLOSURE IS TO REMAIN IN EFFECT AT THE END OF THE WORK DAY
- 10. DISTANCES SHOWN ON THE TRAFFIC MANAGEMENT PLANS ARE A GUIDE ONLY, AND MAY BE ADJUSTED IN THE FIELD BY THE CITY.

GRADE DIFFERENCES

- 11. WHERE THERE IS A LONGITUDINAL DIFFERENCE IN ELEVATION BETWEEN EXISTING PAVEMENT AND COLD PLANED OR NEW PAVEMENT, THE CONTRACTOR SHALL PATCH A TEMPORARY BIT. CONC. WEDGE WITH A 12:1 (OR FLATTER) SLOPE FOR SMOOTH TRANSITION.
- 12. CROSS-SECTIONAL GRADE DIFFERENCES IN EXCESS OF 2" DURING NON-WORKING HOURS WILL REQUIRE DELINEATION BY USE OF REFLECTORIZED DRUMS.
- 13. CROSS-SECTIONAL GRADE DIFFERENCES IN EXCESS OF 4" DURING NON-WORKING HOURS SHALL BE PROTECTED BY BACKFILLING WITH A WEDGE OF EARTHWORK TO BE COMPACTED AT 4:1 SLOPE AND WILL ALSO REQUIRE DELINEATION BY USE OF DRUMS.
- 14. A MINIMUM SLOPE OF 4:1 MUST BE MAINTAINED AFTER WORKING HOURS DURING SUBBASE AND BASE COURSE INSTALLATION ALONG EDGE OF THE TRAVELWAY A MINIMUM SLOPE OF 8:1 MUST BE MAINTAINED ON ALL ABUTTER ACCESS DRIVES AND A MINIMUM SLOPE OF 12:1 MUST BE MAINTAINED ON ALL SIDEWALKS.

CONSTRUCTION SIGNING

- 15. REMOVE ALL TEMPORARY SIGNS, DRUMS AND OTHER TRAFFIC MAINTENANCE DEVICES THAT ARE NOT COMPLETED IN A DAYS WORK. THIS PARTICULARLY APPLIES TO THE W20-8 SIGNS, WHICH SHALL BE COMPLETELY COVERED OR REMOVED EACH DAY WHEN TRAFFIC OFFICERS ARE NOT PRESENT
- 16. NO SIGNS SHALL BE ATTACHED TO DRUMS OR CONES. ALL CONSTRUCTION SIGNS SHALL BE ATTACHED TO THEIR OWN INDEPENDENT SUPPORTS
- 17. NO SIGNS SHALL BE VISIBLE TO TRAFFIC THAT MAY CONFLICT WITH ACTUAL CONDITIONS
- 18. LOCATION OF R5-9A SIGNS TO BE APPROVED BY THE CITY WHO WILL DETERMINE THE NECESSITY FOR PROVIDING TEMPORARY CROSSWALKS.
- 19. ALL SIGNS AND SUPPORTS SHALL MEET CRITERIA SET FORTH IN NCHRP 350 REPORT
 20. ALL SIGNS, INCLUDING EXISTING, THAT ARE NOT REPRESENTATIVE OF ACTUAL WORK CONDITIONS SHALL BE EITHER COVERED OR REMOVED WHEN NOT APPLICABLE.
- 21. IF USED, ALL W20-4 SIGNS SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH DAY UNLESS LANE RESTRICTIONS ARE PERMITTED TO REMAIN OVERNIGHT IN ACCORDANCE WITH NOTE NO. 2 ABOVE.
- 22. USE W20-8 SIGNS ONLY WHILE POLICE ARE DIRECTING TRAFFIC. THEY SHALL BE TAKEN DOWN OR COVERED AT THE CLOSE OF EACH DAY.

PAVEMENT MARKINGS

- 23. PAVEMENT MARKINGS WHICH ARE NO LONGER APPLICABLE SHALL BE REMOVED. APPLY TEMPORARY MARKINGS WHERE SHOWN ON THE TRAFFIC MANAGEMENT PLANS AND AS NECESSARY
- 24. FOR ROADWAYS WHERE PAVEMENT OVERLAY IS NOT DESIGNATED, EXISTING PAVEMENT MARKINGS WHICH ARE IN CONFLICT WITH TEMPORARY TRAFFIC CONTROLS SHOULD BE COVERED TEMPORARILY WITH BLACKOUT PAINT OR TAPE, AS DIRECTED BY THE CITY, FOR THE FULL DURATION OF THE PHASE IN PROGRESS. TEMPORARY PAINTED OR REMOVABLE TAPE MARKINGS SHALL BE USED AS NECESSARY FOR ALL PHASES OF CONSTRUCTION.

CHANNELIZATION

- 25. THE MAXIMUM SPACING BETWEEN CHANNELIZATION DEVICES (DRUMS OR CONES) SHALL BE APPROXIMATELY EQUAL IN FEET TO THE POSTED SPEED LIMIT. THE MINIMUM SPACING SHALL BE 20' O.C.
- 26. REFLECTORIZED DRUMS USED TO MARK HAZARDS OVERNIGHT SHALL BE EQUIPPED WITH FLASHING WARNING LIGHTS. DRUMS USED FOR CHANNELIZATION OVERNIGHT SHALL BE EQUIPPED WITH STEADY-BURN LAMPS. NO REFLECTORIZED CONES SHALL BE USED
- 27. FLASHING OR STEADY BURN WARNING LIGHTS SHALL ALSO BE USED ON BARRICADES, JERSEY BARRIERS OR WHERE DIRECTED BY THE ENGINEER.
- 28. METAL DRUMS ARE PROHIBITED AS CHANNELIZATION DEVICES
- 29. PLASTIC DRUMS WITH SOME FORM OF LIGHTING DEVICE MOUNTED ON THEM MUST PASS THE CRITERIA SET FORTH IN NCHRP 350 "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES." IF THEY DO NOT MEET THIS CRITERIA, THEY MUST BE REMOVED FROM THE PROJECT.

