Re-Transmittal of Previously Approved Improvement Standards and Details

Date of re-transmittal: May 13, 2005

Transmitted Details:

Trench Backfill and Resurfacing standard details ST-1 through ST-7 and ST9 and ST10

The addition of new ST-8 supersedes these details for trench compaction only. These details will be revised to reflect this change in a subsequent modification.

Distributed for clarification only: Don Crawford 5/13/05
Development Support Services Manager Date
NOTES:

1. 10' MINIMUM REMOVAL REQUIRED WHEN TRENCH IS PERPENDICULAR OR ANGULAR TO FLOW OF TRAFFIC.
2. 2' MINIMUM
3. SEE ST-7 FOR GENERAL NOTES.

*FOR STREETS OTHER THAN LOCAL DESIGNATION GRINDING SHALL BE FROM TRAVEL LANE TO TRAVEL LANE.

*ANY TRENCH WITHIN 6' OF GUTTER LIP SHALL GRIND FROM GUTTER LIP TO EDGE OF TRAVEL LANE. BIKE LANE OR PARKING LANE, WHICHEVER IS LESSER AND STILL MEETS MINIMUMS ABOVE.

LIMITS FOR LOCAL STREETS*

TRAVEL LANE (T.L.)

COMPLETE REMOVAL WHEN PIPE IS IN CENTER OF STREET

GUTTER LIP

COMPLETE REMOVAL WHEN PIPE IS OFFSET
NOTES:

1. 5' Minimum removal required when trench is perpendicular or angular to flow of traffic.
2. 2' Minimum
3. See ST-7 for general notes.

*For streets other than local designation.
Grinding shall be to travel lane within 4' of trench.

*Any trench within 3' of gutter lip shall grind from gutter lip to edge of travel lane, bike lane or parking lane, whichever is lesser and still meets minimums above.
NOTES:

1. 2' minimum removal required when trench is perpendicular or angular to flow of traffic.
2. 2' minimum
3. SEE ST-7 FOR GENERAL NOTES.

*FOR STREETS OTHER THAN LOCAL DESIGNATION GRINDING SHALL BE TO TRAVEL LANE WITHIN 4' OF TRENCH.

*ANY TRENCH WITHIN 3' OF GUTTER LIP SHALL GRIND FROM GUTTER LIP TO EDGE OF TRAVEL LANE. BIKE LANE OR PARKING LANE, WHICHEVER IS LESSEST AND STILL MEETS MINIMUMS ABOVE.
NOTES:

1. 5' MINIMUM REMOVAL REQUIRED WHEN TRENCH IS PERPENDICULAR OR ANGULAR TO FLOW OF TRAFFIC.
2. 1' MINIMUM
3. SEE ST-7 FOR GENERAL NOTES.
4. WHERE EXISTING AC DEPTH IS LESS THAN 2.5 INCHES, REMOVE FULL DEPTH. REPAVE AT 4" MIN.

*ANY TRENCH WITHIN 3' OF GUTTER LIP SHALL GRIND TO GUTTER LIP.
<3 OR MORE POTHoles>
GRIND AND REPAIR SIMILAR TO TRENCH DETAILS WHEN
Y < 75 FT (PCI = 85 - 100)
OR < 50 FT (PCI = 70 - 85)
OR < 30 FT (PCI = 50 - 70)

<2 POTHoles>
GRIND AND REPAIR SIMILAR TO TRENCH DETAIL WHEN
X < 50 FT (PCI = 85 - 100)
OR < 30 FT (PCI = 70 - 85)
OR < 15 FT (PCI = 50 - 100)
GENERAL NOTES

1. PLANE EXISTING ASPHALT TO A 1 1/2" MIN. DEPTH.
2. A TACK COAT SHALL BE APPLIED TO THE AREA PRIOR TO PLACING NEW ASPHALT CONCRETE.
3. ASPHALT CONCRETE SHALL BE AR 4000 WITH 1/2" ROCK MIN. BASE COURSE SHALL BE 3/4" AR 4000.
4. ASPHALT CONCRETE SHALL BE SAND SEALED WITHIN 24 HOURS OF TRENCH RESURFACING.
5. FIELD MEMO WITH FOLLOW UP REPORT REQUIRED FROM PERMITTEE OR DEVELOPER'S GEO-TECHNICAL FIRM WHEN SOIL BACKFILL IS USED.
6. TRAFFIC CONTROL PLAN SHALL BE REQUIRED.
7. VIBRATORY ROLLERS SHALL BE USED ON ALL TRENCH REPAIRS. VIBRATORY PLATES MAY ONLY BE USED WHERE APPROVED IN ADVANCE BY CITY ENGINEER.

GENERAL NOTES (FOR FABRIC)

1. AN APPROVED TACK COAT IS REQUIRED PRIOR TO PLACING NEW FABRIC.
2. NEW FABRIC IS TO OVERLAP EXISTING FABRIC A MINIMUM OF 2' ON EACH SIDE OF THE TRENCH.

GENERAL NOTES (FOR NARROW TRENCH / SLURRY BACKFILL)

1. SAND CEMENT BACKFILL SHALL HAVE A MINIMUM 4" SLUMP (190-EO400)
2. SAND CEMENT BACKFILL SHALL BE THOROUGHLY CONSOLIDATED TO ENCASE CONDUITS. CONCRETE VIBRATORS SHALL BE USED DURING PLACEMENT OF SAND CEMENT.
3. SAND CEMENT SHALL BE SCREENED OFF TO MATCH PLANE PDVEMENT GRADE.
4. ALLOW SAND CEMENT BACKFILL 7 CALENDAR DAYS MINIMUM TO 10 CALENDAR DAYS MAXIMUM CURE AND DRY TIME BEFORE APPLYING ASPHALT CONCRETE.
5. IN SECONDARY, MAJOR OR PRIME ARTERIAL STREETS, TO ACCELERATE CURING TIMES PER NOTE 4, AN APPROVED SET ACCELERATING ADMIXTURE MAY BE USED WITH CITY ENGINEER'S APPROVAL.
TEMPORARY

2 1/2" MINIMUM THICKNESS ASPHALT CONCRETE (SEE RESURFACING NOTES BELOW).

SURFACE SHALL NOT VARY MORE THAN UP TO +1/2" (NO DEPRESSION ALLOWED) FROM STRAIGHT GRADE DRAWN ACROSS TRENCH.

EXISTING PAVEMENT

2 1/2" MIN.

95% RELATIVE COMPACTION MINIMUM

TEMPORARY RESURFACING

A. 30 DAYS MAXIMUM ON NON-OCCUPIED RESIDENTIAL STREETS (SEE NOTE 2).
B. 10 DAYS MAXIMUM ON OCCUPIED RESIDENTIAL STREETS (COLD MIX PERMISSIBLE).
C. 72 HOURS MAXIMUM ON LOCAL COLLECTORS, MAJOR ROADS, AND PRIME ARTERIALS (HOT MIX ONLY 3/4" AR 4000).
D. TRAFFIC CONTROL PLAN REQUIRED.

GENERAL NOTES

1. COMPACTION TESTS ARE REQUIRED ON A TRENCH, AND MUST BE PERFORMED WITHIN 24 HOURS OF COMPLETION OF TRENCH BACKFILL. COMPACTION FAILURES MUST BE CORRECTED IMMEDIATELY (RETESTS ARE REQUIRED).
2. "COLD MIX" WILL BE ALLOWED TO REMAIN AS SURFACING FOR A MAXIMUM OF 30 DAYS ON NON-OCCUPIED "RESIDENTIAL" STREETS. EARLIER REPLACEMENT WILL BE REQUIRED IF MAINTENANCE OF THE SURFACE IS UNSATISFACTORY, SOLELY AT THE DISCRETION OF THE CITY ENGINEER OR HIS DESIGNATED REPRESENTATIVE.