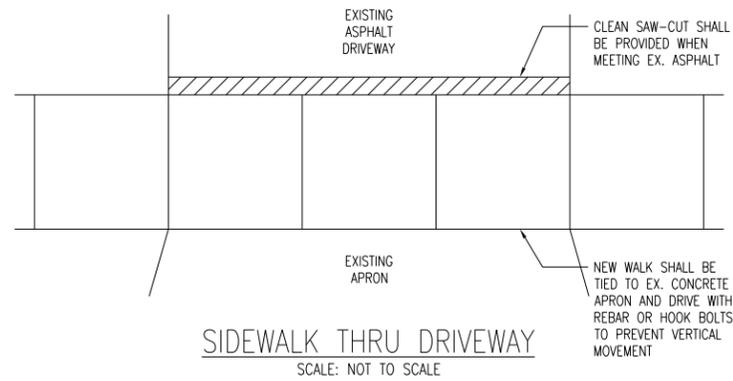
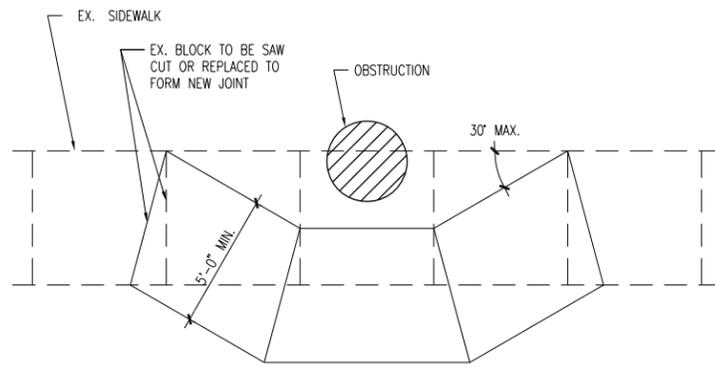


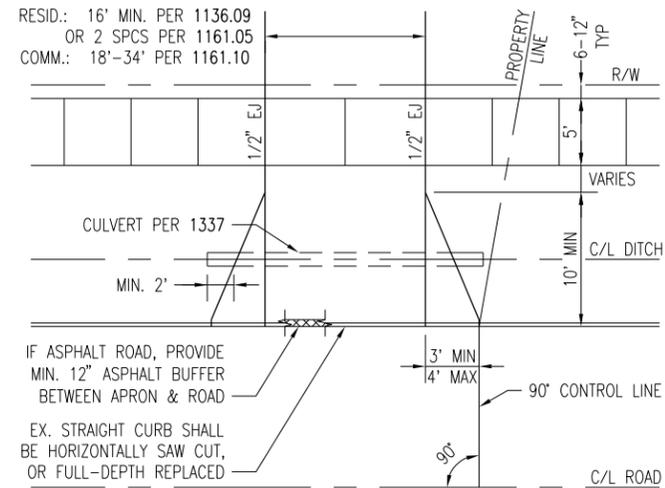
ROOT PRUNING
SCALE: NOT TO SCALE



SIDEWALK THRU DRIVEWAY
SCALE: NOT TO SCALE



SIDEWALK OBSTRUCTION OFF-SET
SCALE: NOT TO SCALE



APRON, CULVERT, SIDEWALK, & DRIVE-PLAN
(SEE COD. ORD. 903, 909, 1101.10(d), 1136.09(c), 1337, & CUY CNTY MD-5C)
SCALE: NOT TO SCALE

GENERAL

1. PERMITS SHALL BE OBTAINED PRIOR TO STARTING WORK, OTHERWISE A LATE FEE MAY APPLY.
2. THE CONTRACTOR COORDINATE REQUIRED INSPECTIONS WITH THE CITY, AND SHALL PROVIDE MINIMUM 24 HOURS NOTICE BEFORE BACKFILLING, INSTALLING PAVEMENT, OR AS OTHERWISE DIRECTED BY THE CITY.

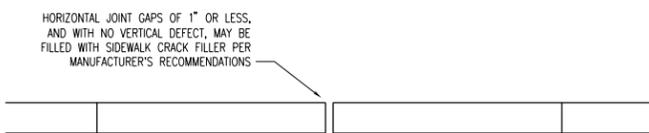
SIDEWALKS & APRONS - C.O. 903, 909, & 1101.10

3. SIDEWALKS SHALL BE MIN. 4" THICK CONCRETE & INCREASED TO APRON THICKNESS WHERE CROSSES DRIVEWAY.
4. JOINTS - TOOLED OR CUT JOINTS SHALL BE LOCATED MAX. 5' APART IN SIDEWALKS AND 10' APART IN APRONS. EXPANSION JOINTS SHALL BE LOCATED MAX. 25' APART IN SIDEWALKS, BETWEEN APRON AND CURB, WITHIN SIDEWALK AT DRIVEWAY EDGES, AND ADJACENT TO FIXED OBJECTS.
5. APRONS SHALL BE CONCRETE AS FOLLOWS:

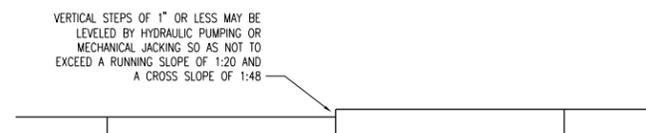
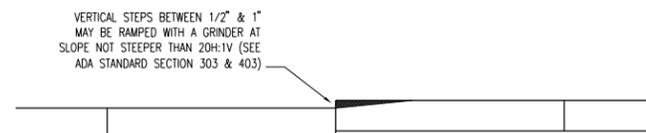
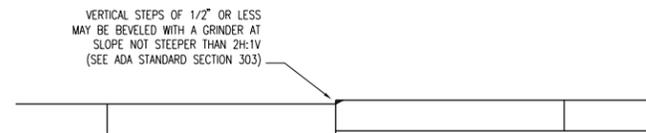
SURFACE	APRON COMPOSITION	
	RESIDENTIAL	COMMERCIAL
6" x 6" -NO. 10 GAUGE WIRE MESH OR SYNTHETIC-MACRO FIBER REINFORCING	6" ODOT CLASS 'C' CONCRETE	8" ODOT CLASS 'C' CONCRETE
4" ODOT #304 LESTONE	4" ODOT #304 LESTONE	4" ODOT #304 LESTONE
	COMPACTED ODOT 204	COMPACTED ODOT 204

ASPHALT MAY ONLY BE USED IN RESIDENTIAL AREAS & WITH PRIOR APPROVAL OF CITY ENGINEER, WHERE DITCHES EXIST AND THERE IS LESS THAN 10 INCHES OF CLEARANCE BETWEEN CULVERT PIPE AND APRON SURFACE. A MIN. 4" ASPHALT INSTALLED IN 2 LIFTS, SHALL BE USED IN LIEU OF CONCRETE

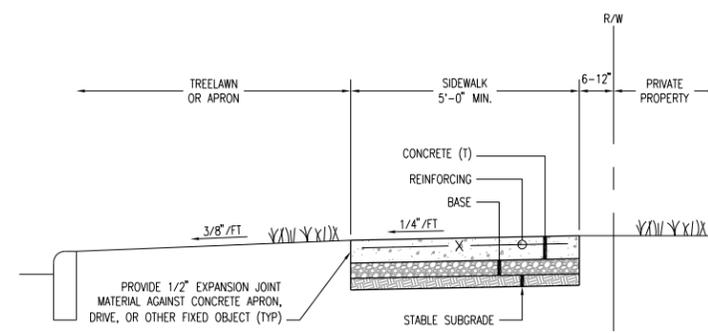
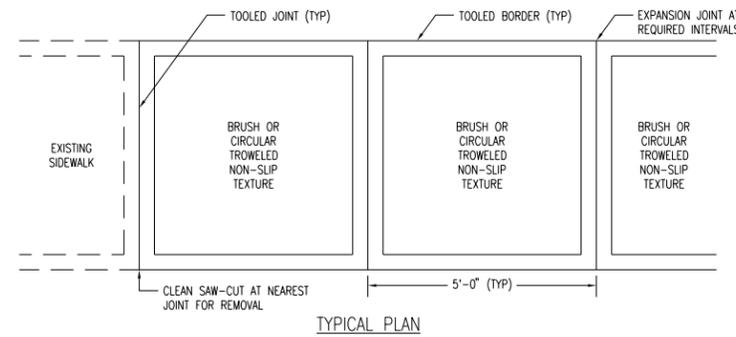
6. CONCRETE SHALL BE ODOT CLASS 'C' (4000 PSI) W/MIN. 6 SACKS (OR 600 LBS.) OF PORTLAND CEMENT PER CUBIC YARD, A MAX. 5.5 GALLONS OF WATER PER SACK OF CEMENT, AND 7±1% ENTRAINED AIR.
7. CONCRETE SHALL BE SEALED WITH A LIQUID MEMBRANE SEALER WHICH IS AN EPOXY CHLORINATED POLYMER, CONTAINING A FUGITIVE DYE, PREFERABLY RED, SUCH AS SUPPLIED BY POLYSEAL, CLEARSEAL, CLEAR & SEAL, CLEAR BOND, EUCCO FLOOR COAT, CHEM MASTERS, INC., A.C. HORN COMPANY, SANABORN, GUARDIAN CHEMICAL COMPANY, & EUCLID CHEMICAL COMPANY.
8. FIBER REINFORCING SHALL BE A MINIMUM 2-INCH LONG SYNTHETIC-MACRO FIBER, SUCH AS EUCLID CHEMICAL TUF-STRAND SF, GRACE STRUX 90/40, PROPEX FIBERMESH 650, OR PRE-APPROVED EQUAL, AND IN CONFORMANCE WITH ASTM C1116.
 - 8.1. FIBER DOSAGE SHALL BE AS RECOMMENDED BY THE MANUFACTURER, BUT NOT LESS THAN 3 LBS/CY.
 - 8.2. FIBER SHALL BE ADDED TO THE MIX AT THE PLANT DURING THE BATCH OR MIXING PROCESS, AND NOT AT THE JOB SITE, AND MIXED A MINIMUM OF 70 REVOLUTIONS TO ENSURE PROPER DISPERSION PER ASTM C94 AND ACI 304.
 - 8.3. ALL CONCRETE BATCH DELIVERY TICKETS SHALL BE PROVIDED TO THE CITY INSEPECTOR, INDICATING QUANTITY OF FIBER USED.
9. SUBGRADE IS JUST BELOW THE BASE LAYER, AND ALSO THE BOTTOM OF EXCAVATION OR TOP OF FILL.
 - 9.1. ALL SOFT OR HARD MATERIAL WHICH WILL NOT COMPACT READILY WHEN ROLLED OR TAMPED, SHALL BE REMOVED AS DIRECTED AND REPLACED WITH SUITABLE MATERIAL COMPACTED AS SPECIFIED.
 - 9.2. FOUNDRY SAND, GROUND CINDERS, SLAG, OR SIMILAR MATERIALS SHALL NOT BE USED FOR SUBGRADE. THE SUBGRADE SHALL BE FINISHED IN AN ACCEPTABLE CONDITION FOR AT LEAST ONE DAY'S PROGRESS IN ADVANCE OF CONCRETE PLACEMENT.
10. ALL UTILITY CASTINGS SHALL BE ADJUSTED TO GRADE AS NECESSARY.
11. COLD WEATHER CONSTRUCTION - NO CONCRETE SHALL BE POURED AFTER NOVEMBER 15 OR BEFORE APRIL 15 WITHOUT WRITTEN PERMISSION OF THE CITY ENGINEER. WHEN PERMISSION IS GRANTED, THE FOLLOWING CONDITIONS APPLY:
 - 11.1. PERMISSIONS TO POUR CONCRETE MUST BE OBTAINED TWENTY-FOUR (24) HOURS PRIOR TO POUR.
 - 11.2. NO POUR CAN BE MADE WHEN TEMPERATURE IS BELOW 40 DEGREES FARENHEIT.



REPAIR OF HORIZONTAL JOINT GAPS
SCALE: NOT TO SCALE



REPAIR OF VERTICAL DEFECTS
SCALE: NOT TO SCALE



SIDEWALK
(SEE COD. ORD. 903, 905, & 909)
SCALE: NOT TO SCALE

CITY OF NORTH OLMSTED
SIDEWALK DETAILS
BY: ENGINEERING DEPARTMENT
DATE: 02/01/2018

