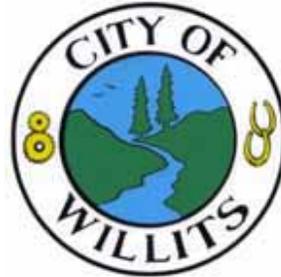


**90% DRAFT
CITY OF WILLITS**

DESIGN AND CONSTRUCTION STANDARDS



July 2009

CITY OF WILLITS

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B – Subdivision General Notes (100 Series)

SUBDIVISION GENERAL NOTES

DESCRIPTION

100 SERIES - SUBDIVISIONS

100 Subdivision General Notes

CITY OF WILLITS
GENERAL CONSTRUCTION NOTES
(REQUIRED ON ALL PUBLIC IMPROVEMENT PLANS)

GENERAL CONSTRUCTION NOTES

1. ALL MATERIAL, WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE CITY OF WILLITS STANDARD SPECIFICATIONS AND STANDARD PLANS AND THE STATE OF CALIFORNIA D.O.T. STANDARD PLANS AND SPECIFICATIONS, LATEST EDITION. THE ON-SITE IMPROVEMENTS SHALL BE INSPECTED BY THE PUBLIC WORKS INSPECTOR FOR CONFORMANCE WITH STANDARDS AND PLANS.
2. CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY OF WILLITS, 380 EAST COMMERCIAL STREET, BEFORE START OF WORK. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMIT.
3. CONTRACTOR SHALL OBTAIN REQUIRED PERMITS FROM ALL AGENCIES AND PAY ALL FEES PRIOR TO COMMENCEMENT OF ANY WORK.
4. CONTRACTOR SHALL PROVIDE EMERGENCY TELEPHONE NUMBERS TO THE POLICE, FIRE, AND PUBLIC WORKS DEPARTMENTS.
5. CONTRACTOR SHALL GIVE THE CITY OF WILLITS PUBLIC WORKS DEPARTMENT 48 HOURS NOTICE BEFORE STARTING WORK. CALL (707) 459-4605 DURING NORMAL BUSINESS HOURS FOR INSPECTION SERVICES.
6. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO BEGINNING OF WORK. CONTACT PUBLIC WORKS TO SCHEDULE SUCH MEETING AT (707) 459-4605.
7. WORK HOURS ARE LIMITED TO MONDAY THROUGH FRIDAY, 7:00 A.M. TO 6:00 P.M. INSPECTION WILL BE AVAILABLE MONDAY THROUGH FRIDAY FROM 8:00 A.M. TO 4:30 P.M. CONTRACTORS SHALL SCHEDULE INSPECTIONS 48 HOURS IN ADVANCE BY CALLING (707) 459-4605.
8. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) A MINIMUM OF 48 HOURS BEFORE UNDERGROUND CONSTRUCTION IS PERFORMED, TO ASCERTAIN THE LOCATION OF EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA. CONTRACTOR IS RESPONSIBLE FOR BLACKING OUT USA MARKINGS AFTER THE COMPLETION OF CONSTRUCTION.
9. CONTRATOR SHALL COORDINATE ALL NECESSARY UTILITY RELOCATIONS WITH THE APPROPRIATE UTILITY COMPANIES.
10. DURING THE COURSE OF THE PROJECT CONSTRUCTION (INCLUDING NON-WORKING HOURS), THE CONTRACTOR SHALL PROVIDE APPROPRIATE SIGNAGE, FLASHERS AND BARRICADES FOR OPEN TRENCHES THAT ARE APPROVED BY THE CITY INSPECTOR TO WARN ONCOMING MOTORISTS, BICYCLISTS AND PEDESTRIANS OF POTENTIAL SAFETY HAZARDS.
11. ALL UNDERGROUND UTILITY WORK IN THE STREET AREAS SHALL BE COMPLETED PRIOR TO PLACEMENT OF BASE ROCK, UNLESS OTHERWISE NOTED.
12. CONTRACTOR SHALL CONFORM TO EXISTING STREETS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC., AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
13. ANY DISCREPANCY DISCOVERED BY CONTRACTOR IN THESE PLANS OR ANY FIELD CONDITIONS DISCOVERED BY CONTRACTOR THAT MAY DELAY OR OBSTRUCT THE PROPER COMPLETION OF THE WORK PER THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY ENGINEER IMMEDIATELY UPON DISCOVERY. NOTIFICATION SHALL BE IN WRITING.

SHEET 1 OF 9



SUBDIVISION GENERAL NOTES

STD. NO.
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DRAWN: CFB

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GENERAL CONSTRUCTION NOTES (CONTINUED)

14. ITEMS SPECIFIED ON THE STANDARD PLANS ARE APPROVED FOR USE BY THE CITY OF WILLITS. ALL SUBSTITUTES OR ALTERATIONS SHALL BE SUBMITTED TO THE CITY OF WILLITS FOR REVIEW AND APPROVAL.

15. DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING APPROVAL OF MAIL BOX LOCATIONS FROM THE LOCAL BRANCH OF THE UNITED STATES POST OFFICE. SIDEWALK WARPS ARE REQUIRED PER THE CITY OF WILLITS STANDARD DETAIL 206.

16. FOR NEW SUBDIVISIONS, ALL EXISTING OVERHEAD UTILITIES AND PROPOSED UTILITIES, BOTH ON-SITE AND ALONG PROJECT FRONTAGES, SHALL BE PLACED UNDERGROUND. ELECTRIC TRANSMISSION LINES OF 26,000 VOLTS OR MORE ARE EXEMPT FROM THIS REQUIREMENT. LOCATIONS OF SURFACE MOUNTED TRANSFORMERS, PEDESTAL MOUNTED TERMINAL BOXES AND METER CABINETS SHALL BE APPROVED BY THE CITY IN ACCORDANCE WITH APPROVED PLANS AND PRIOR TO INSTALLATION.

17. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING NOISE, ODORS, DUST AND DEBRIS TO MINIMIZE IMPACTS ON SURROUNDING PROPERTIES AND ROADWAYS. CONTRACTOR SHALL BE RESPONSIBLE TO ASSURE THAT ALL CONSTRUCTION EQUIPMENT IS EQUIPPED WITH MANUFACTURERS APPROVED MUFFLER'S AND BAFFLES. FAILURE TO COMPLY MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER.

18. CONTRACTOR SHALL ELIMINATE OR MINIMIZE NON-STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE TO STORM DRAINS AND OTHER WATER BODIES. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN A MANNER THAT MINIMIZES, TO THE MAXIMUM EXTENT PRACTICABLE, ANY POLLUTANTS ENTERING DIRECTLY OR INDIRECTLY TO THE STORM WATER SYSTEM OR GROUND WATER. THE CONTRACTOR SHALL ENSURE THAT NO CONSTRUCTION MATERIALS ARE CONVEYED INTO THE STORM DRAIN SYSTEM. ALL MATERIALS THAT COULD CAUSE WATER POLLUTION (MOTOR OIL, FUELS, PAINT, ETC.) SHALL BE STORED AND USED IN A MANNER THAT WILL NOT CAUSE ANY POLLUTION. CONTRACTOR SHALL MEET WITH THE CITY INSPECTOR PRIOR TO OCTOBER 15 TO REVIEW STATUS OF PROJECT'S EROSION CONTROL AND WATER POLLUTION PREVENTION MEASURES.

19. THE CONTRACTOR SHALL HAVE ALL EROSION CONTROL MEASURES ON SITE DURING THE COURSE OF THE WORK AND INSTALLED PRIOR TO OCTOBER 15 OR BY THE FIRST RAIN EVENT, WHICHEVER OCCURS FIRST.

20. THE CITY OF WILLITS FIRE DEPARTMENT REQUIRES THAT A FIRE HYDRANT BE IN SERVICE WITHIN 250 FEET OF THE FURTHEST POINT OF CONSTRUCTION PRIOR TO THE STOCKPILING OF COMBUSTIBLE MATERIALS OR THE BEGINNING OF COMBUSTIBLE CONSTRUCTION.

21. IF THE STREETS OR ACCESS ROADS IN A DEVELOPMENT ARE NOT PAVED FROM OCTOBER 15TH THROUGH APRIL 15TH, THE CITY REQUIRES THAT A TEMPORARY ALL WEATHER ACCESS ROAD BE PROVIDED. TEMPORARY FIRE DEPARTMENT ACCESS ROUTES SHALL CONSIST OF A MINIMUM 12 INCHES OF BASE ROCK MATERIAL, OR AS PROPOSED BY A GEOTECHNICAL ENGINEER AND APPROVED BY THE CITY ENGINEER, AND A MINIMUM 20 FEET IN WIDTH.

22. IN THE EVENT THAT ARCHEOLOGICAL SITE INDICATORS (CHIPPED CHERT, OBSIDIAN TOOLS, WASTE FLAKES, GRINDING IMPLEMENTS, DARKENED SOIL CONTAINING BONE FRAGMENTS AND SHELLFISH REMAINS, OR CERAMICS, GLASS OR METAL FRAGMENTS) ARE UNCOVERED, THE CITY ENGINEER SHALL BE CONTACTED IMMEDIATELY. ALL GROUND DISTURBING WORK SHALL CEASE IN THE VICINITY OF ANY DISCOVERY UNTIL AN ARCHEOLOGIST COMPLETES AN EVALUATION OF SIGNIFICANCE.

23. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL HALT CONSTRUCTION IMMEDIATELY, NOTIFY THE CITY, AND IMPLEMENT REMEDIATION (AS DIRECTED BY THE CITY OR ITS AGENT) IN ACCORDANCE WITH ANY REQUIREMENTS OF THE MENDOCINO COUNTY ENVIRONMENTAL HEALTH DEPARTMENT AND THE NORTH COAST REGIONAL WATER QUALITY CONTROL BOARD.

SHEET 2 OF 9

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SUBDIVISION GENERAL NOTES

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GENERAL CONSTRUCTION NOTES (CONTINUED)

24. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC FLOW ON AFFECTED ROADWAYS DURING NON-WORKING HOURS AND TO MINIMIZE TRAFFIC RESTRICTION DURING CONSTRUCTION. FOR ALL LANE CLOSURES AND DETOURS, A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL AT LEAST FIVE WORKING DAYS BEFORE THE SCHEDULED LANE CLOSURE. THE CONTRACTOR SHALL BE REQUIRED TO FOLLOW TRAFFIC SAFETY MEASURES IN ACCORDANCE WITH THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. THE CITY'S EMERGENCY SERVICE PROVIDERS SHALL BE NOTIFIED OF PROPOSED CONSTRUCTION SCHEDULED BY THE CONTRACTOR(S). THE CONTRACTOR(S) SHALL NOTIFY EMERGENCY SERVICE PROVIDERS IN WRITING AT LEAST 24 HOURS IN ADVANCE OF ITS PROPOSED SCHEDULE OF WORK.

25. SIDEWALK WARPS SHALL BE PROVIDED TO ALLOW A CLEAR 6-FOOT WALKWAY IN ALL LOCATIONS INCLUDING WHERE MAILBOXES, UTILITY POLES, FIRE HYDRANTS, STREET SIGNS AND GUY WIRES ARE TO BE INSTALLED. SIDEWALK WARPS ARE REQUIRED PER THE CITY OF WILLITS STANDARD DETAIL 206.

26. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO THE HAUL ROUTE SPECIFIED IN THE ENCROACHMENT PERMIT AND APPROVED BY THE CITY ENGINEER.

NOTIFICATION FOR INSPECTIONS

27. APPROVAL OF ALL WORK SHALL BE NECESSARY AT THE COMPLETION OF EACH STAGE OF THE WORK AND SUCH APPROVAL MUST BE OBTAINED BEFORE SUBSEQUENT STAGES OF WORK MAY BE COMMENCED. ADDITIONALLY, THE CITY INSPECTOR SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY OF THE FOLLOWING STAGES OF WORK. ANY CONSTRUCTION OR EXCAVATION REQUIRING INSPECTION THAT IS UNDERTAKEN WITHOUT INSPECTION IS SUBJECT TO RECONSTRUCTION AND REEXCAVATION AT THE CONTRACTOR'S EXPENSE. INSPECTION MUST, AT A MINIMUM, BE SCHEDULED FOR THE FOLLOWING WORK:

- A. PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, ADEQUATE TREE PROTECTION FENCING SHALL BE INSTALLED, WHERE APPROPRIATE.
- B. COMPACTION AND PREPARATION OF EMBANKMENTS, EXCAVATIONS, AND SUBGRADE SHALL BE OBSERVED BY THE PROJECT SOILS ENGINEER AND CERTIFICATION OF COMPACTION SUBMITTED TO THE CITY INSPECTOR.
- C. CONSTRUCTION OF FORMS FOR ALL CONCRETE STRUCTURES, INCLUDING CURBS, GUTTERS, AND SIDEWALKS.
- D. EXCAVATION FOR STORM DRAINS AND CULVERTS.
- E. PLACING OF CONCRETE IN STRUCTURES, INCLUDING CURBS, GUTTERS AND SIDEWALKS.
- F. PLACING OF STORM DRAINS AND CULVERT PIPES.
- G. EXCAVATION AND BACK FILL FOR STRUCTURES AND PIPES AND PUBLIC UTILITIES. WATER AND SEWER FACILITIES MUST BE INSPECTED BY THE COMPANY/AGENCY WITH JURISDICTION, INCLUDING PRIVATE FACILITIES.
- H. CONSTRUCTION OF ROADSIDE DITCHES AND OTHER DRAINAGE WAYS.
- I. PLACING AND COMPACTING OF BASE MATERIAL. IF MORE THAN ONE COURSE OR TYPE OF BASE OR SUBBASE IS TO BE USED, APPROVAL SHALL BE NECESSARY FOR EACH COURSE AND/OR TYPE.
- J. PLACING OF PAVEMENT OR SURFACING. WITHIN 48 HOURS OF PAVING, ALL WATER VALVE BOXES, CLEANOUTS AND MANHOLE FRAMES AND COVERS SHALL BE BROUGHT TO GRADE AND INSPECTED.
- K. STRIPING AND SIGNING LAYOUT AND PLACEMENT.

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NOTIFICATION FOR INSPECTIONS (CONTINUED)

L. FINAL CLEAN UP AND PUNCH LISTS.

M. UPON COMPLETION OF CONSTRUCTION, FINAL CONNECTION WILL BE MADE BY THE CONTRACTOR AT THE DEVELOPER'S EXPENSE UNDER INSPECTION BY THE CITY UNLESS OTHERWISE SPECIFIED ON THE PLANS.

28. IN ADDITION TO THE ABOVE, CITY INSPECTION IS REQUIRED AS DIRECTED BY THE CITY INSPECTOR BASED ON SPECIFIC SITE CONDITIONS.

ADDITIONAL GRADING NOTES

29. A GRADING OR ENCROACHMENT PERMIT SHALL BE ISSUED BY THE CITY OF WILLITS PUBLIC WORKS DEPARTMENT PRIOR TO ANY GRADING SHOWN ON THESE PLANS, UNLESS EXEMPT UNDER THE UNIFORM BUILDING CODE.

30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE GEOTECHNICAL ENGINEER (FILL IN GEOTECHNICAL ENGINEER'S NAME, REPORT TITLE, PROJECT NUMBER AND DATE OF REPORT. INCLUDE SUPPLEMENTARY REPORTS IF THEY EXIST.) ALL GRADING SHALL BE PERFORMED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER AND SHALL BE IN CONFORMANCE WITH THE PRELIMINARY GEOTECHNICAL REPORT AND CHAPTER 33-APPENDIX AND 70-APPENDIX OF THE ADOPTED UNIFORM BUILDING CODE.

31. STREET SUBGRADE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION TO A DEPTH OF NO LESS THAN 6" IN THE ROADWAY SECTION. ASPHALT CONCRETE AND CLASS 2 AGGREGATE BASE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.

32. THE USE OF THE SAND CONE METHODS (SUCH AS ASTM 1557 OR CAL 216) FOR DETERMINING FIELD DENSITIES WILL NOT BE ALLOWED AS A SUBSTITUTE FOR NUCLEAR GAUGE TESTING.

33. ALL EXISTING WELLS, SEPTIC TANKS AND/OR UNDERGROUND FUEL STORAGE TANKS SHALL BE ABANDONED UNDER PERMIT AND INSPECTION OF THE MENDOCINO COUNTY ENVIRONMENTAL HEALTH DEPARTMENT OR OTHER DESIGNATED AGENCY.

34. ANY EXCESS MATERIALS SHALL BE CONSIDERED THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AWAY FROM THE JOB SIDE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

35. ALL TREE PROTECTION FENCING MUST BE INSTALLED AND INSPECTED PRIOR TO COMMENCEMENT OF GRADING OPERATIONS. FENCING SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

DUST CONTROL NOTES

36. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE DUST CONTROL MEASURES FOR THE ENTIRE CONSTRUCTION PERIOD OF THE PROJECT TO THE SATISFACTION OF THE CITY INSPECTOR.

37. CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED IN PROPER WORKING ORDER AND SHALL NOT BE ALLOWED TO IDLE FOR A PERIOD OF LONGER THAN 30 MINUTES.

38. TO MINIMIZE FUGITIVE DUST AND THE RELEASE OF PM10, THE CONTRACTOR SHALL IMPLEMENT A DUST CONTROL PROGRAM. DUST CONTROL MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

A. ACTIVE CONSTRUCTION SITE SHALL BE WATERED AS NEEDED, PREFERABLE IN THE LATE MORNING AND WHEN WORK HAS CEASED FOR THE DAY. THE AMOUNT OF WATER USED SHALL NOT BE EXCESSIVE TO CAUSE SOIL CAARRY-OVER OR WASH-OFF OUTSIDE THE BOUDNARIES OF THE WORKING AREA.

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DUST CONTROL NOTES (CONTINUED)

B. STOCKPILES OF LOOSE MATERIAL SHALL BE COVERED AT ALL TIMES, EXCEPT WHEN THIS WOULD INTERFERE WITH IMMEDIATE CONSTRUCTION ACTIVITIES. SHEETING SHALL BE ADEQUATELY WEIGHTED OR SECURED TO KEEP THE SHEETING IN PLACE DURING NON-WORK PERIODS.

C. ALL CLEARING, GRADING, EARTH MOVING OR EXCAVATION ACTIVITIES SHALL CEASE WHEN THE AVERAGE WIND SPEED FOR ONE HOUR EXCEEDS 20 MILES PER HOUR (MPH).

D. THE AREA DISTURBED BY EXCAVATION OR GRADING SHALL BE KEPT TO THE MINIMUM REQUIRED TO CONSTRUCT THE PROJECT.

E. WHEN TRAVELING ON EXPOSED SOILS, CONSTRUCTION SITE VEHICLE SPEED SHALL BE LIMITED TO 15 MPH.

F. HAUL VEHICLES SHALL BE COVERED WHEN NOT ACTIVELY ENGAGED IN SITE CONSTRUCTION ACTIVITY.

G. STREETS SHALL BE SWEEPED REGULARLY AND KEPT FREE OF DIRT AND DEBRIS.

39. ANY PROJECT RELATED DEBRIS, DEBRIS AND WASTE SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL STATUES AND REGULATIONS.

EROSION CONTROL NOTES

40. A NOTICE OF INTENT SHALL BE FILED BY THE OWNER FOR ALL PROJECTS OVER ONE (1) ACRE IN AREA. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMIT.

41. EROSION CONTROL MEASURES SHALL BE INSTALLED AND IN PLACE BETWEEN OCTOBER 1 AND APRIL 30. INSTALLATION SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN.

42. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTANT MAINTENANCE OF EROSION CONTROL MEASURES. SITE EROSION CONTROL SHALL BE INSPECTED BY THE CONTRACTOR AND CLEANED AND EROSION CONTROL MEASURES REINSTALLED IF NECESSARY AFTER EVERY MAJOR STORM.

43. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP OF MUD AND DEBRIS CARRIED ONTO SURROUNDING STREETS TO THE SATISFACTION OF THE CITY INSPECTOR.

44. ALL GRADED AREAS AND EXPOSED SOIL WITHIN THIS PROJECT SHALL BE SEEDED FOR EROSION CONTROL BY THE CONTRACTOR. SEED AND MULCH WILL BE APPLIED BY OCTOBER 1ST TO ALL CUT AND FILL SLOPES WITHIN OR ADJACENT TO PROJECT ROADS. SEED AND FERTILIZER WILL BE APPLIED HYDRAULICALLY OR BY HAND AT THE RATES SPECIFIED BELOW. ON SLOPES, STRAW WILL BE APPLIED BY BLOWER OR BY HAND AND ANCHORED IN PLACE BY PUNCHING.

45. HYDROSEEDING MIX SHALL CONFORM TO THE FOLLOWING:

ITEM	POUNDS PER ACRE
"BLANDO BROME"	30
ANNUAL RYE GRASS	20
FERTILIZER (16-20-0 & 15% SULFUR)	500
STRAW MULCH	4000 OR 3500 LB.
OR WOOD CELLULOSE	

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EROSION CONTROL NOTES (CONTINUED)

46. CLEARING AND GRUBBING, MASS GRADING AND EARTHWORK OPERATIONS SHALL BE AVOIDED DURING THE RAINY SEASON, FROM OCTOBER 1ST THROUGH APRIL 30TH UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. THE CLEARING OF EXISTING VEGETATION SHALL BE CONFINED TO WITHIN THE LIMITS OF ACTUAL EARTHWORK. INCREMENTAL DEVELOPMENT SHALL BE REQUIRED TO ENSURE THAT THE AMOUNT OF LAND CLEARED AT ANY TIME IS LIMITED TO THE AREA THAT CAN BE DEVELOPED DURING THE CONSTRUCTION PERIOD. STORM WATER SHALL NOT BE ALLOWED TO FLOW DIRECTLY DOWN UNPROTECTED SLOPES. ENERGY DISSIPATING STRUCTURES AND EROSION CONTROL DEVICES SHALL BE PLACED AT ALL DRAINAGE OUTLETS WHICH DISCHARGE TO NATURAL CHANNELS, AS SHOWN ON THESE PLANS. ALL SEDIMENT TRAPS SHALL BE MAINTAINED BY THE OWNER.

ADDITIONAL UNDERGROUND UTILITY NOTES

47. NO GUARANTEE IS INTENDED THAT UNDERGROUND OBSTRUCTIONS, NOT SHOWN ON THESE PLANS WILL NOT BE ENCOUNTERED. THOSE SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE AND THE CONTRACTOR IS CAUTIONED THAT THE OWNER, THE ENGINEER, AND THE CITY OF WILLITS ASSUME NO RESPONSIBILITY FOR ANY OBSTRUCTIONS EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY COMPANIES WORKING WITHIN THE LIMITS OF THIS PROJECT.

48. CONTRACTOR SHALL NOT BEGIN EXCAVATION UNTIL ALL EXISTING UTILITIES HAVE BEEN MARKED IN THE FIELD BY THE APPLICABLE ENTITY RESPONSIBLE FOR THAT PARTICULAR UTILITY. THE CONTRACTOR SHALL NOTIFY EACH APPLICABLE ENTITY AT LEAST 24 HOURS BEFORE STARTING WORK. HAND DIGGING IS REQUIRED IF TRENCH IS WITHIN 12" OF ANY EXISTING UTILITY.

49. UNDERGROUND SERVICE ALERT: CALL TOLL FREE (800) 642-2444 AT LEAST 48 HOURS PRIOR TO EXCAVATION.

50. THE CONTRACTOR SHALL OBTAIN A TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY BEFORE EXCAVATION OF TRENCHES. A COPY OF THE PERMIT MUST BE ON FILE WITH THE CITY BEFORE TRENCH EXCAVATION MAY BEGIN.

51. CONTRACTOR SHALL UNCOVER EXISTING BURIED UTILITIES WITH UTILITY OWNER TO VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES. BURIED UTILITIES INCLUDE BUT ARE NOT LIMITED TO WATER MAINS AND SERVICES, SEWER MAINS AND LATERALS, STORM DRAINS, GAS MAINS AND SERVICES, ELECTRICAL DISTRIBUTION LINES, CABLE TELEVISION LINES, AND TELEPHONE LINES. ALL UTILITIES CONFLICTING WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BEFORE THE START OF CONSTRUCTION.

52. THE CONTRACTOR SHALL VERIFY EXISTING INVERTS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE PROJECT AND/OR DESIGN ENGINEER MAY ADJUST THE GRADE OF NEW SEWER AND STORM DRAIN CONSTRUCTION ACCORDINGLY WITH CONCURRENCE FROM THE CITY ENGINEER.

53. DISTANCES AND INVERTS ARE TO AND AT THE CENTER OF THE MANHOLES, CLEANOUTS, DROP INLETS, CATCH BASINS, AND YARD DRAINS OR AS MARKED ON THE DRAWINGS.

54. ALL UNDERGROUND IMPROVEMENTS SHALL BE INSTALLED AND APPROVED PRIOR TO PAVING.

55. THE CONTRACTOR SHALL STAMP THE LETTER "S" ON THE FACE OF CURB DIRECTLY ABOVE THE SEWER LATERAL, AND THE LETTER "W" ON THE FACE OF CURB DIRECTLY ABOVE WATER SERVICES, AND "B" ON FACE OF CURB DIRECTLY ABOVE A BLOW OFF OR AIR RELIEF VALVE. AT A DRIVEWAY THE STAMP SHALL BE PLACED AT THE BACK OF RAMP. THE LETTERS SHALL BE 4" HIGH AND COMPLETELY LEGIBLE.

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ADDITIONAL SANITARY SEWER NOTES

56. GRAVITY SEWER PIPE SHALL BE POLYVINYL CHLORIDE (PVC), SDR 35 OR DUCTILE IRON PIPE, CLASS 52, POLYETHYLENE ENCASED.

57. SEWER MAIN INSTALLED OUTSIDE OF PAVED ROADWAYS SHALL BE DUCTILE IRON AND ENCASED IN POLYETHYLENE IF REQUIRED BY THE GEOTECHNICAL ENGINEER OR CITY ENGINEER.

58. ALL SANITARY SEWER MANHOLES SHALL BE A MINIMUM OF 48" IN DIAMETER. UNLESS OTHERWISE NOTED, MANHOLE FRAME AND COVER SHALL HAVE 24" CLEAR OPENING, AND BE HEAVY DUTY NON-ROCKING. RAISED LETTERS ON TOP OF THE COVER SHALL READ "SANITARY SEWER."

59. TRENCHING, BACKFILL AND RESURFACING REQUIRED FOR INSTALLATION OF SEWER SYSTEM FACILITIES SHALL BE SHALL BE IN ACCORDANCE WITH CITY STANDARD 300.

ADDITIONAL STORM DRAIN NOTES

60. STORM DRAIN PIPE SHALL BE REINFORCED CONCRETE, HIGH DENSITY POLYETHYLENE, OR CAST IN PLACE CONCRETE PIPE CONFORMING TO CALTRANS STANDARD SPECIFICATIONS. CAST IN PLACE PIPE MAY NOT BE USED IN EXISTING STREETS WITHOUT THE EXPRESS AUTHORIZATION OF THE CITY ENGINEER.

61. THE MINIMUM COVER OVER STORM DRAIN PIPE SHALL BE 24" MEASURED FROM SUBGRADE AND THE MAXIMUM ALLOWABLE COVER SHALL BE LIMITED TO 11 FEET MEASURED FROM FINISHED SURFACE.

62. TRENCHING, BACKFILL AND RESURFACING FOR STORM DRAIN PIPE SHALL BE IN ACCORDANCE WITH CITY STANDARD 222.

63. ALL STORM DRAIN MANHOLES SHALL BE A MINIMUM OF 48" IN DIAMETER. UNLESS OTHERWISE NOTED, MANHOLE FRAME AND COVER SHALL HAVE 24" CLEAR OPENING, AND BE HEAVY DUTY NON-ROCKING. RAISED LETTERS ON TOP OF THE COVER SHALL READ "STORM DRAIN". PIPES SHALL NOT PROTRUDE INSIDE THE MANHOLE AND PIPE ENDS SHALL BE ROUNDED.

64. STORM DRAIN WITHIN CITY MAINTAINED ROADS SHALL BE MINIMUM 18 INCH DIAMETER, WITH THE EXCEPTION OF LATERALS WHICH MAY BE 15 IN. DIAMETER.

65. PRIOR TO ACCEPTANCE OF THE STORM DRAIN SYSTEM, THE CONTRACTOR SHALL PROVIDE CCTV INSPECTION OF ALL STORM DRAIN LINES TO ENSURE THEY ARE FREE AND CLEAR OF ALL DEBRIS AND SILT. ALL VIDEO TAPES SHALL BE SUBMITTED TO THE CITY WITH WRITTEN REPORTS AND SHALL BE SUBJECT TO REVIEW AND APPROVAL. IF CLEANING OF THE PIPES ARE NEEDED, THE CONTRACTOR SHALL NOT BE ALLOWED TO WASH SILT AND/OR DEBRIS INTO THE EXISTING CITY STORM DRAIN SYSTEM INCLUDING ANY CREEKS OR OPEN WATERWAYS.

ADDITIONAL WATER SYSTEM NOTES

66. START EXCAVATION BY EXPOSING END OF EXISTING WATER MAIN TO DETERMINE ITS LINE AND GRADE. START NEW MAIN 8-10 FEET FROM AND ON SAME LINE AND GRADE AS EXISTING MAIN. PIPE LAYING SHALL THEN BE ADJUSTED SO DEPTH OF NEW MAIN CONFORMS TO NOTE #67.

67. MINIMUM DEPTH OF COVER FROM FINISHED GRADE SHALL BE: 32" FOR 6" MAINS, 36" FOR 8" MAINS, 44" FOR 12" MAINS, 48" FOR 14" AND LARGER MAINS.

68. A NO. 10 INSULATED COPPER WIRE SHALL BE LAID ON TOP OF AND ALONG ENTIRE LENGTH OF ALL MAINS AND SHALL BE EXTENDED TO THE SURFACE AT ALL VALVES, BLOWOFFS AND METER BOX LOCATIONS SUFFICIENTLY FOR LOCATOR EQUIPMENT TO BE ATTACHED. FASTEN THE WIRE TO THE TOP OF THE PIPE SO AS NOT TO BE DISPLACED BY BACKFILLING PROCEDURE (ONE METHOD OF ACCOMPLISHING THIS IS TO AFFIX THE WIRE TO THE TOP OF THE PIPE WITH DUCT TAPE AT APPROXIMATELY 10 FEET INTERVALS).

SHEET 7 OF 9

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SUBDIVISION GENERAL NOTES

STD. NO.
100

SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009

ADDITIONAL WATER SYSTEM NOTES (CONTINUED)

69. WATER MAINS TO BE CONSTRUCTED WITHIN 10' OF SEWER MAIN REQUIRE SPECIAL INSTALLATION AND DESIGN MUST BE IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARDS. THE DESIGN SHALL BE SPECIFICALLY APPROVED BY THE CITY ENGINEER.

70. ALL TRENCHING, BACKFILL AND RESURFACING REQUIRED FOR INSTALLATION OF WATER SYSTEM FACILITIES SHALL BE SHALL BE IN ACCORDANCE WITH CITY STANDARD 222.

71. ALL METER BOXES, VAULTS AND PITS SHALL BE BEDDED ON A 3" MINIMUM THICK, 3/4" DRAIN ROCK, CLASS 2 AGGREGATE BASE, OR OTHER CLEAN MATERIAL WITH TYPICAL SAND EQUIVALENT OF 20 MINIMUM, UNCONTAMINATED BY NATIVE SOIL, AGAINST COMPACTED OR UNDISTURBED BASE. THE GRAVEL BED SHALL EXTEND TO A 4" MINIMUM BEYOND ALL SIDES OF THE METER BOX. BOX SHALL BE SET FLUSH WITH TOP OF CURB, SIDEWALK OR GROUND, WHICHEVER IS APPLICABLE.

72. METER BOXES SHALL BE LOCATED OUT OF TRAFFIC LOADING AREAS.

73. WHEN HYDRANTS ARE CONSTRUCTED, BURLAP BAGS SHALL BE PLACED OVER THE HYDRANTS (INDICATING THAT THE HYDRANT IS NOT IN SERVICE) UNTIL SUCH TIME THAT THE CITY HAS FLOW TESTED THE HYDRANT AND VERIFIED THAT IT IS OPERATING CORRECTLY.

SIGNING, STRIPING AND PAVEMENT MARKINGS

74. CONTRACTOR SHALL NOTIFY THE CITY OF WILLITS PUBLIC WORKS DEPARTMENT AT (707) 459-4605 OF INTENT TO PLACE ANY PAVEMENT MARKER, TRAFFIC STRIPE, AND PAVEMENT MARKING LAYOUT LINES 10 WORKING DAYS BEFORE THE LAYOUT WORK IS TO BE PERFORMED. ALL LABOR EQUIPMENT AND MATERIALS SHALL BE PROVIDED BY THE CONTRACTOR.

75. ALL LAYOUT WORK IS TO BE PERFORMED BY THE CONTRACTOR AND SHALL BE FIELD APPROVED BY A CITY INSPECTOR BEFORE THE ACTUAL WORK BEGINS.

76. PAVEMENT MARKERS AND TRAFFIC STRIPE DETAIL REFERENCE NUMBERS ARE SHOWN ON CALTRANS STANDARD PLAN SHEETS A20-A, A20-B, AND A20-C.

77. ROADSIDE SIGNS SHALL BE LOCATED AS SHOWN ON THE PLANS IN CONFORMANCE WITH CITY STANDARDS AND AS DIRECTED BY THE CITY ENGINEER. SIGN INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 56, "SIGNS", OF THE STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE CITY ENGINEER.

78. SIGN PANELS SHALL CONFORM TO THE CURRENT CALTRANS SIGN PANEL SPECIFICATIONS.

79. SIGN PANELS SHALL BE MOUNTED ON METAL POSTS AS DESIGNATED ON THE PLANS. WOOD POST INSTALLATION SHALL BE AS SHOWN ON THE PLANS, INCLUDING STANDARD PLANS. WOOD POSTS SHALL BE PROVIDED WITH BREAKAWAY FEATURE. METAL POSTS SHALL BE 2-INCH SCHEDULE 40 GALVANIZED STEEL PIPE CONFORMING TO ASTM A120 WITH GALVANIZED TOP CAPS. EACH SIGN PANEL SHALL BE ATTACHED TO METAL POSTS WITH A MINIMUM OF (2) 5/16-INCH SELF-TAPPING SCREWS OR BOLTS. ALL FASTENERS AND ATTACHMENT HARDWARE SHALL BE GALVANIZED.

80. MARKERS AND DELINEATORS SHALL BE INSTALLED AT LOCATIONS AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE PROVISIONS OF SECTION 82, "MARKERS AND DELINEATORS" OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE CITY ENGINEER.

81. TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL BE AS SHOWN ON THE PLANS, IN ACCORDANCE WITH THE PROVISIONS OF SECTION 84, "TRAFFIC STRIPES AND PAVEMENT MARKINGS" OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE CITY.

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SUBDIVISION GENERAL NOTES

STD. NO.
100

SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009

SIGNING, STRIPING AND PAVEMENT MARKINGS (CONTINUED)

82. ALL PAVEMENT MARKINGS, INCLUDING STOP LINES, AND ALL CHANNELIZING LINES SHALL BE THERMOPLASTIC. ALL OTHER TRAFFIC STRIPES SHALL BE PAINTED, UNLESS OTHERWISE SHOWN OR NOTED ON THE PLANS.

83. THERMOPLASTIC TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL CONFORM TO THE PROVISIONS OF SECTION 84-2 "THERMOPLASTIC TRAFFIC STRIPES AND PAVEMENT MARKINGS" OF THE STANDARD SPECIFICATIONS.

84. SECTIONS 84-102, "MATERIALS" AND 84-2.03 "MANUFACTURING, PACKAGING AND LABELING", OF THE STANDARD SPECIFICATIONS ARE DELETED.

85. THERMOPLASTIC MATERIAL SHALL BE APPLIED AT A MINIMUM THICKNESS OF 0.125 INCH.

86. THERMOPLASTIC MATERIAL SHALL CONFORM TO STATE SPECIFICATION 8010-21C-21 OR 8010-21C-19. GLASS BEADS TO BE APPLIED TO THE SURFACE OF MOLTEN THERMOPLASTIC MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF STATE SPECIFICATION 8010-11E-22 (TYPE II) OR AASHTO DESIGNATION M-247(TYPE I).

87. STATE SPECIFICATIONS FOR THERMOPLASTIC MATERIAL AND GLASS BEADS MAY BE OBTAINED FROM THE TRANSPORTATION LABORATORY, P.O. BOX 19128, SACRAMENTO, CA. 95819 (TELEPHONE: 916-739-2400)

88. PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 85, "PAVEMENT MARKERS" OF THE STANDARD SPECIFICATIONS. PAVEMENT MARKERS SHALL BE PLACED TO THE LINE ESTABLISHED BY CITY.

89. EXISTING PAINTED/THERMOPLASTIC TRAFFIC STRIPES AND PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS WHICH CONFLICT WITH NEW TRAFFIC STRIPING AND PAVEMENT MARKING PLANS SHALL BE REMOVED BY THE CONTRACTOR, IN ACCORDANCE WITH SECTION 15 OF THE STANDARD SPECIFICATIONS.

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SHEET 9 OF 9



SUBDIVISION GENERAL NOTES

STD. NO.
100

SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009

B – Street Standard Plans (200 Series)

STREET STANDARD PLANS

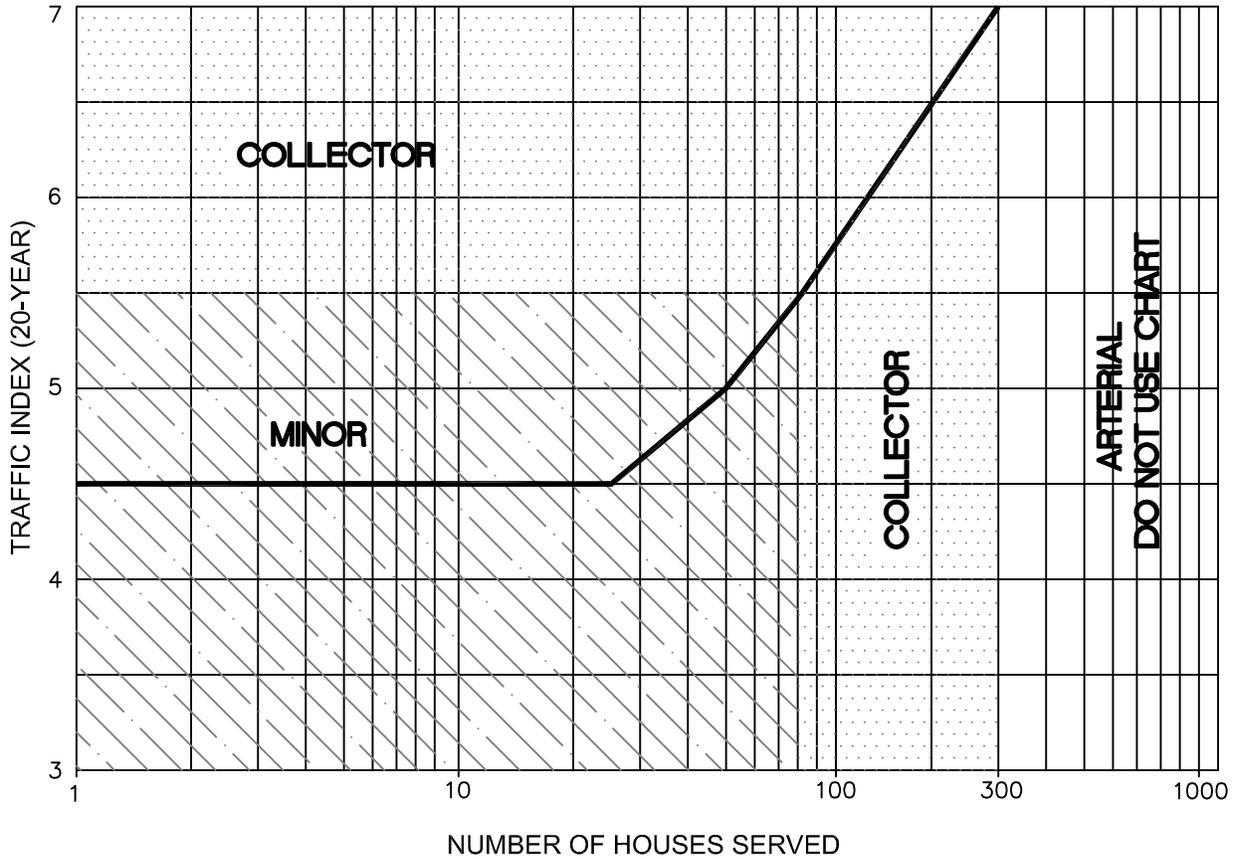
DESCRIPTION

200 SERIES - STREETS

201	Traffic Index Chart for Flexible Pavements
202	Structural Design Chart for Flexible Pavements
203	Street Layout
204	Street Sections
205	Curb, Gutter and Sidewalk
206	Curb and Gutter Near Tree Details
207	Curb Return, Sidewalk Warp and Corner Bulbout Retrofit
208	Visibility Requirements
209	Pedestrian Ramp Details
210	Driveway Details
211	Bus Turnout Details
212	Residential Cul-de-Sac
213	Hammerhead Turn Around Residential Private Streets and Access Ways
214	Standard Street Knuckle Residential and Minor Streets
215	Street Widening/Paveout Detail
216	Side Street and End of Overlay Conform
217	Edge Grinding at Lip of Gutter for Overlay
218	Standard P.C.C. Cross Gutter
219	City Monument
220	Lot Corner Reference Monument at Street Frontage

221	Standard Barricade
222	Standard Trench Notes
223	Public Utilities Typical Location
224	Full Depth AC Repair and Overlay

CHART FOR ESTIMATION OF TRAFFIC INDEX
USING A HOUSE COUNT



$$T.I. = 2.472 (\text{HOUSES})^{0.1825}$$

MIN. T.I. = 4.5

NOTES:

1. FOR USE WITHIN SUBDIVISIONS, RESIDENTIAL AND RESIDENTIAL COLLECTOR STREETS.
2. FOR ALL OTHER STREETS, THE T.I. WILL BE DETERMINED BY THE CITY ENGINEER.
3. CHART IS BASED ON A 20 YEAR DESIGN LIFE.

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**TRAFFIC INDEX CHART
FOR FLEXIBLE PAVEMENTS**

STD. NO.
201

SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009

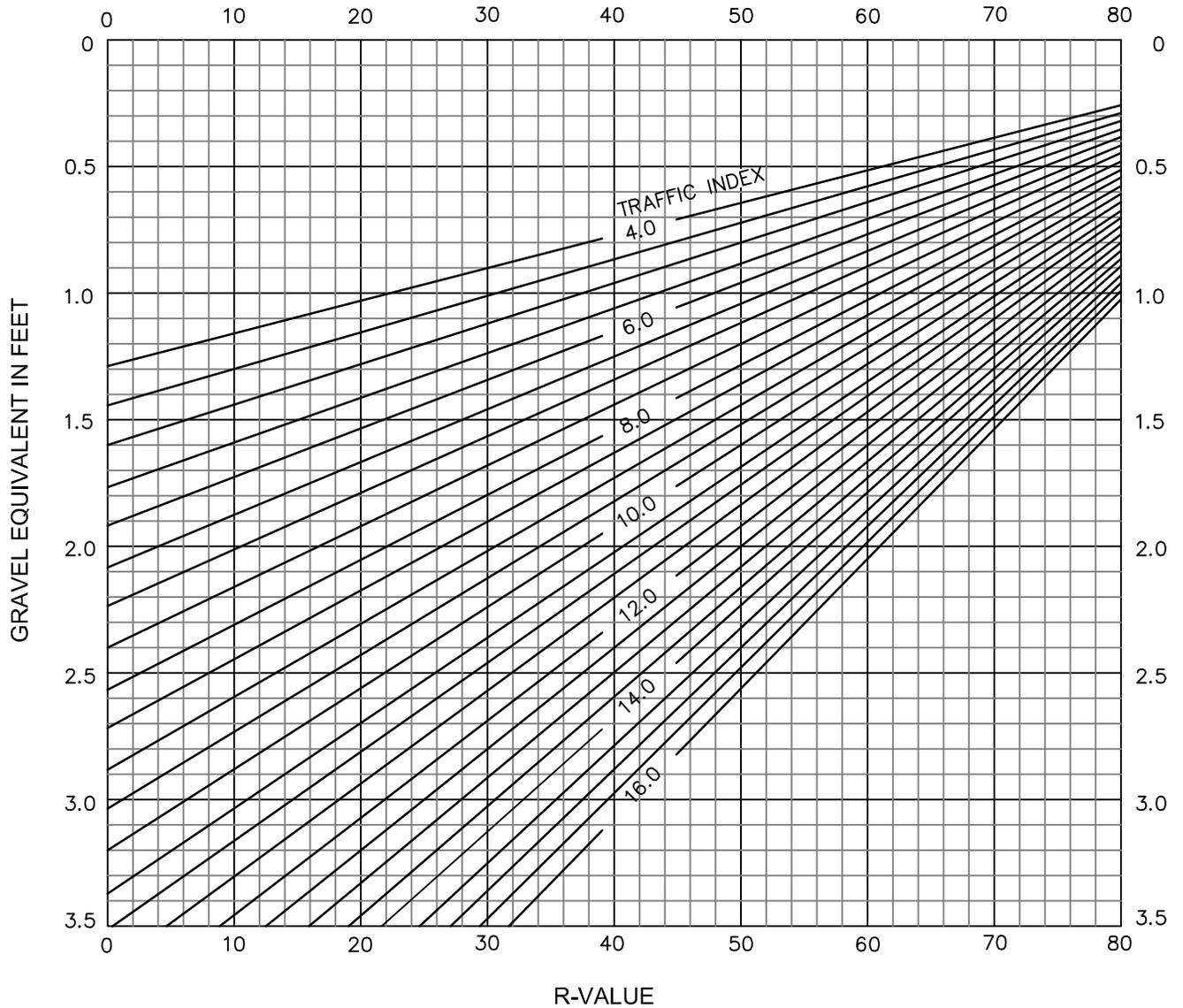
STRUCTURAL DESIGN CHART FOR FLEXIBLE PAVEMENTS

EQUATION:

$$G.E. = 0.0032 (T.I.)(100-R)$$

WHERE:

- G.E. = GRAVEL EQUIVALENT
- T.I. = TRAFFIC INDEX
- R = RESISTANCE VALUE



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STRUCTURAL DESIGN CHART FOR FLEXIBLE PAVEMENTS

STD. NO.

202

SCALE: NONE

DRAWN: CFB

CHK: MGK

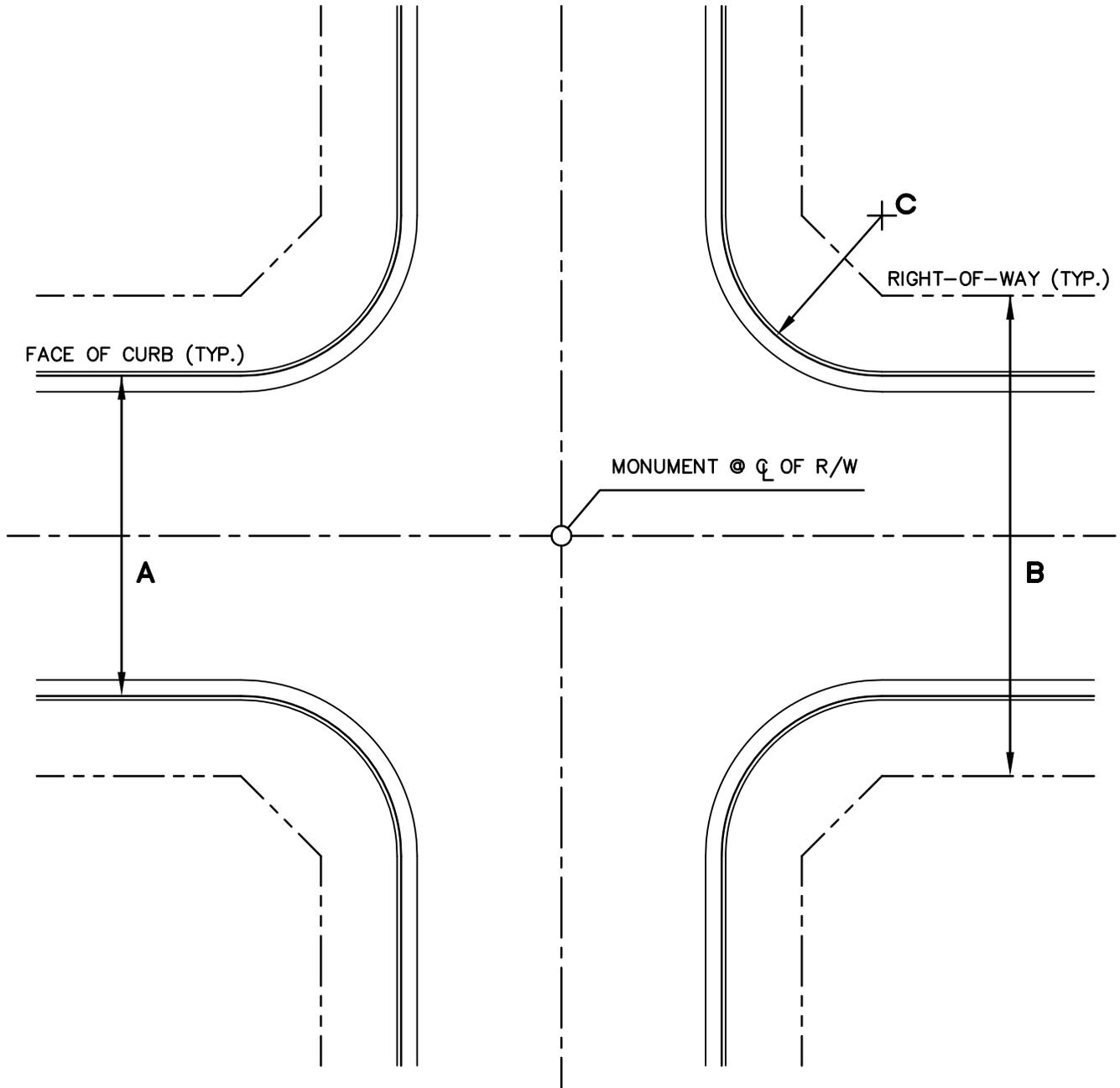
APPVD:

DATE: AUG 2009

Images: Willits Logo.jpg Xrefs: Path: \\srosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD 01064-09-001.dwg\Willits201-210.dwg Layout Name: 203 Plot Date: Jul 10, 2009 at 13:46

STREET TYPE	A CURB TO CURB WIDTH	B RIGHT-OF-WAY WIDTH	C CURB RETURN RADIUS
ARTERIAL	70' - 84'	88' - 102' * **	35'
COLLECTOR	36'	56' *	30'
INDUSTRIAL/COMMERCIAL	40'	60' **	35'
RESIDENTIAL/MINOR	34'	56' **	20'

* ADDITIONAL LANDSCAPE PARCELS & PUBLIC UTILITY EASEMENTS MAY BE REQUIRED PER ZONING CODE.
 ** ADDITIONAL PUBLIC UTILITY EASEMENTS MAY BE REQUIRED ON BOTH SIDES OF RIGHT-OF-WAY.



STREET LAYOUT

STD. NO.
203

SCALE: NONE

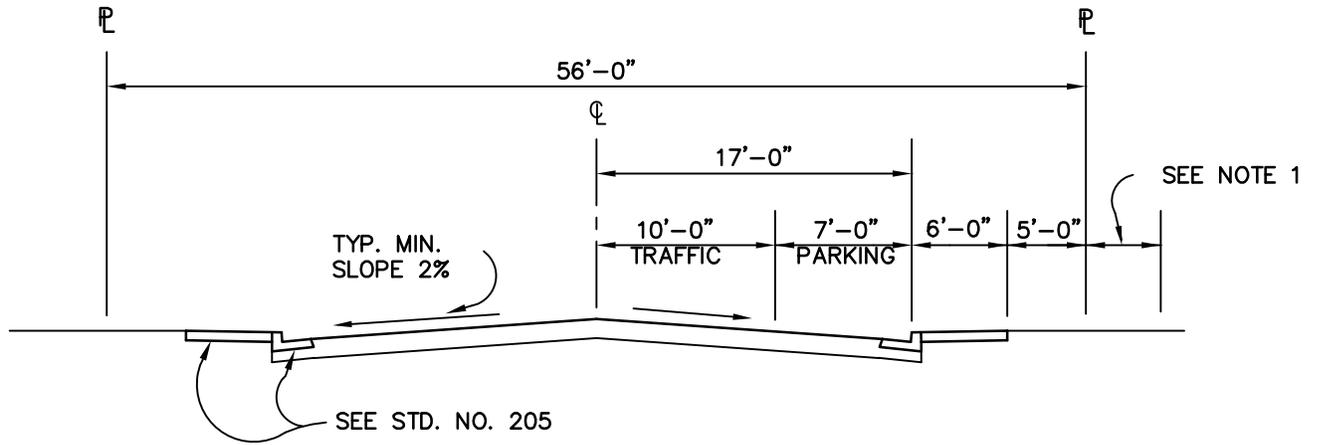
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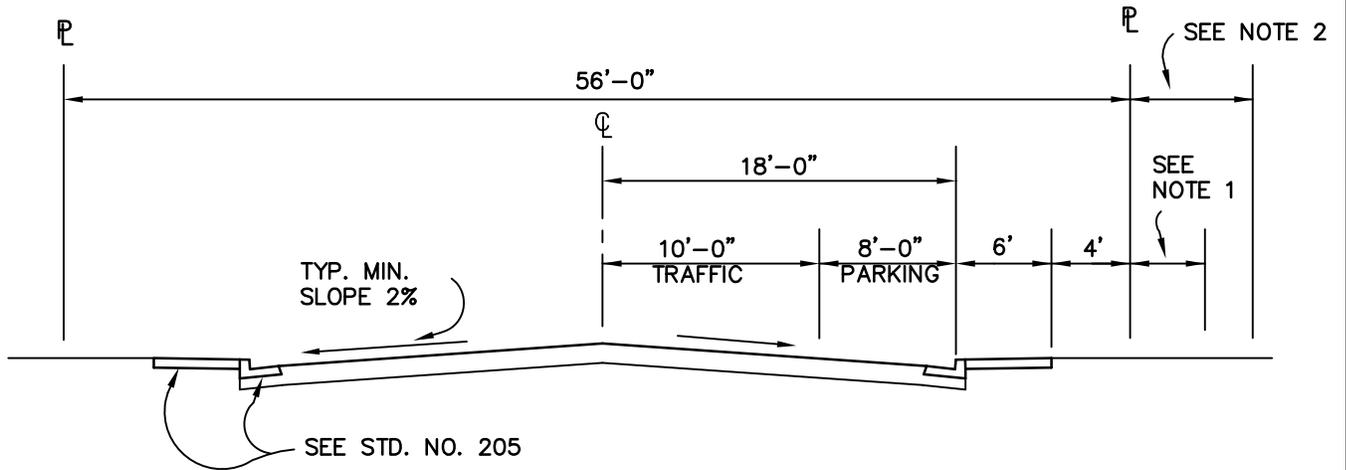
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DATE: AUG 2009

Images: Willits Logo.jpg Xrefs: Path: \\srosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD 01064-09-001.dwg\Willits201-210.dwg Layout Name: 204 (1) Plot Date: Jul 10, 2009 at 13:46



MINOR



COLLECTOR

NOTES:

1. ADDITIONAL P.U.E.'S IF REQUIRED BY UTILITY COMPANIES.
2. ADDITIONAL LANDSCAPE PARCELS IF REQUIRED BY ZONING CODE.
3. WHEN BIKE LANES ARE REQUIRED, ADD 10' TOTAL TO PAVEMENT SECTION AND RIGHT-OF-WAY.

SHEET 1 OF 4



**MINOR AND COLLECTOR
STREET SECTION**

STD. NO.
204

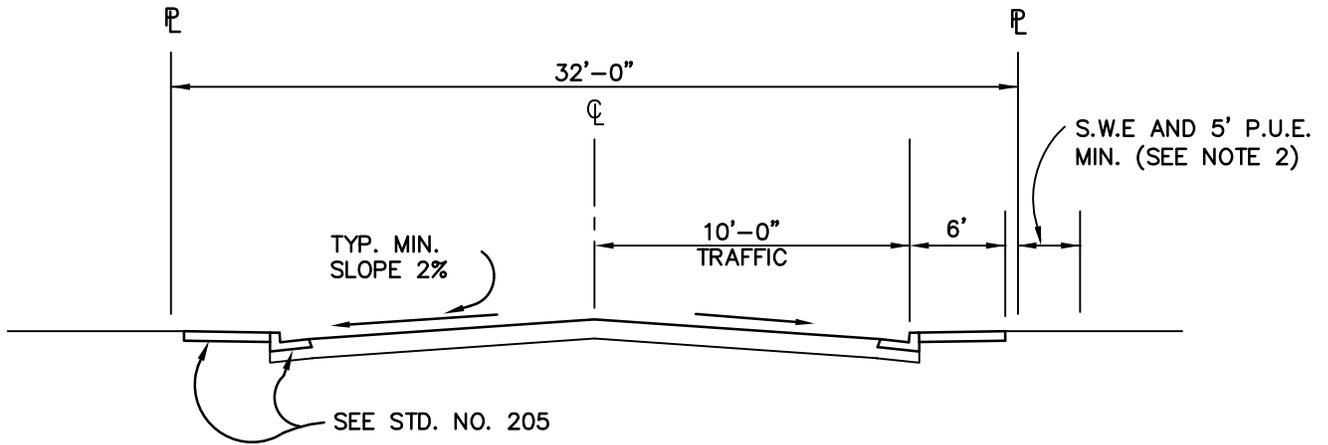
SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009



NOTES:

1. THIS STANDARD SHALL BE USED ONLY WITH THE EXPRESS AUTHORIZATION OF THE CITY ENGINEER.
2. ADDITIONAL P.U.E. IF REQUIRED BY UTILITY COMPANIES.
3. THIS STANDARD MAY BE USED IN R-1 SUBDIVISIONS ONLY.
4. STREET MUST BE POSTED "NO PARKING" ON BOTH SIDES.
5. A MINIMUM 20' x 20' PAVED GUEST PARKING AREA SHALL BE PROVIDED ON EACH LOT IN ADDITION TO PARKING REQUIRED BY THE ZONING ORDINANCE.
6. THE MINIMUM CENTERLINE RADIUS IS 100 FEET.
7. NO GRADE RATE IN EXCESS OF 15% WILL BE ALLOWED UNLESS AUTHORIZED BY THE CITY ENGINEER.
8. THE MINIMUM LENGTH OF VERTICAL PARABOLIC CURVES SHALL BE 100 FEET.
9. THE MAXIMUM CROSS SLOPE IN CUL-DE-SAC BULBS SHALL BE 8%.

SHEET 2 OF 4



**HILLSIDE MINOR
STREET SECTION**

STD. NO.
204

SCALE: NONE

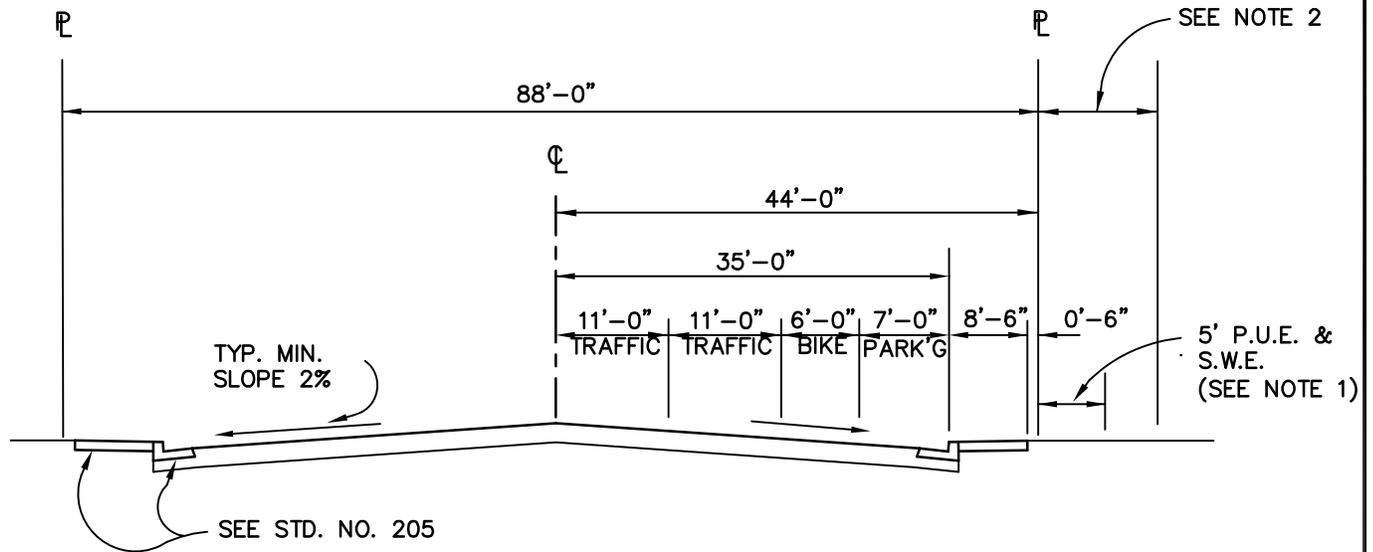
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CHK: MGK

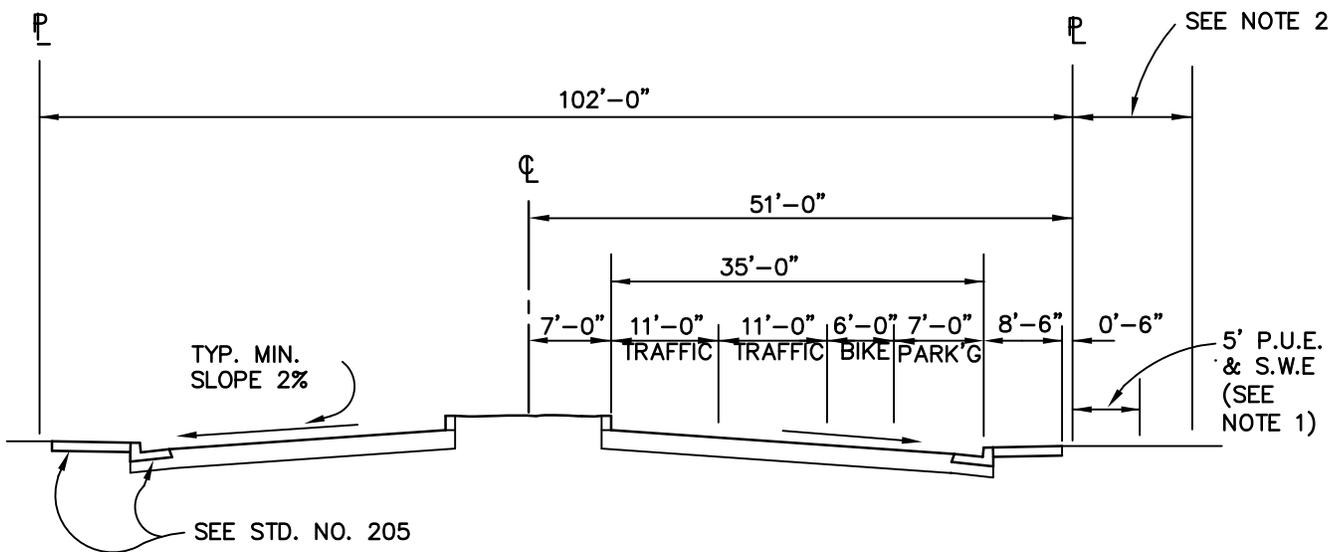
APPVD:

DATE: AUG 2009

Images: Willits Logo.jpg Xrefs: Path: \\srosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD 01064-09-001.dwg\Willits201-210.dwg Layout Name: 204 (3) Plot Date: Jul 10, 2009 at 13:46



UNDIVIDED



DIVIDED

NOTES:

1. ADDITIONAL P.U.E.'S IF REQUIRED BY UTILITY COMPANIES.
2. ADDITIONAL LANDSCAPE PARCELS IF REQUIRED BY ZONING CODE.
3. WHEN BIKE LANES ARE REQUIRED, ADD 12' TOTAL TO PAVEMENT SECTION AND RIGHT-OF-WAY.

SHEET 3 OF 4



**ARTERIAL
STREET SECTION**

STD. NO.
204

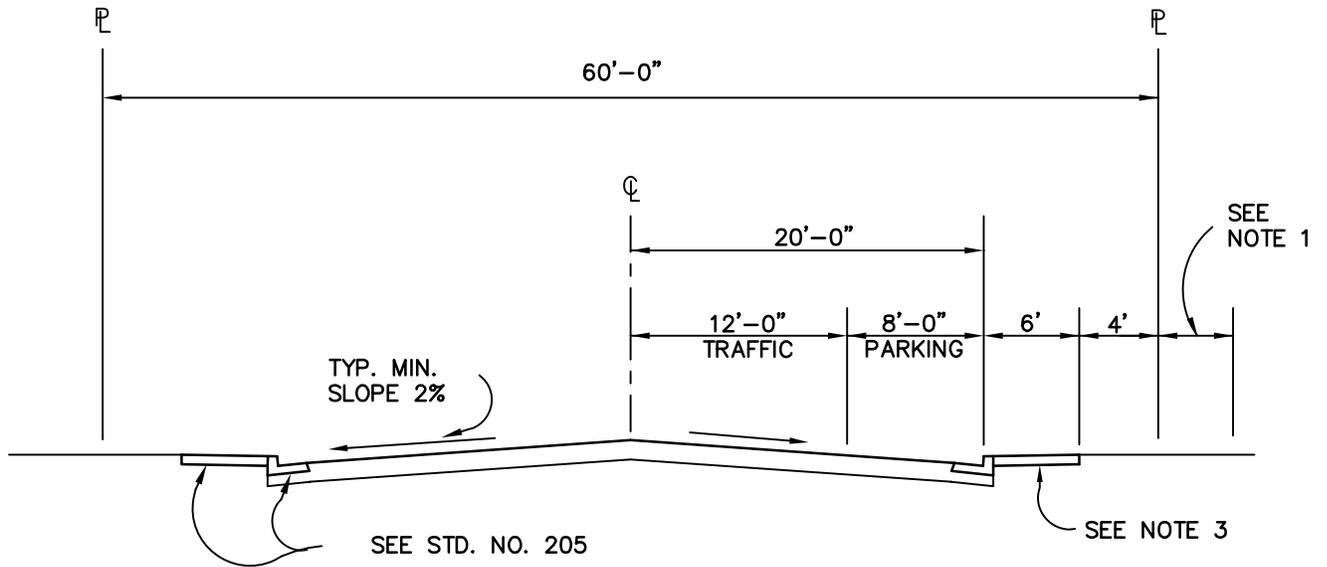
SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009



NOTES:

1. ADDITIONAL P.U.E.'S IF REQUIRED BY UTILITY COMPANIES.
2. WHEN BIKE LANES ARE REQUIRED, ADD 10' TOTAL TO PAVEMENT SECTION AND RIGHT-OF-WAY.
3. CONSTRUCTION OF SIDEWALKS SHALL BE REQUIRED AT THE DISCRETION OF THE CITY ENGINEER.

SHEET 4 OF 4



**INDUSTRIAL/COMMERCIAL
STREET SECTION**

STD. NO.
204

SCALE: NONE

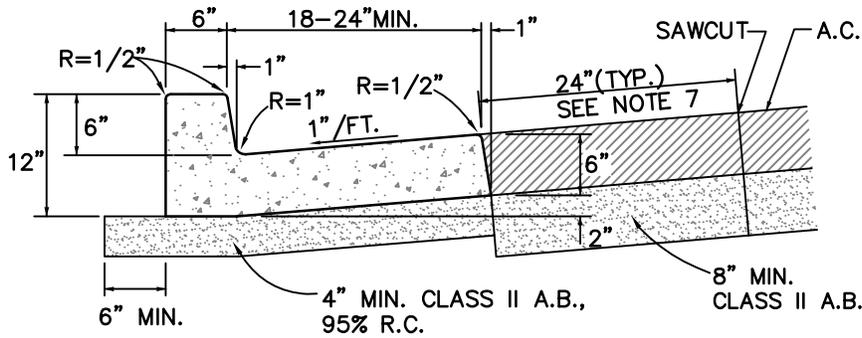
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CHK: MGK

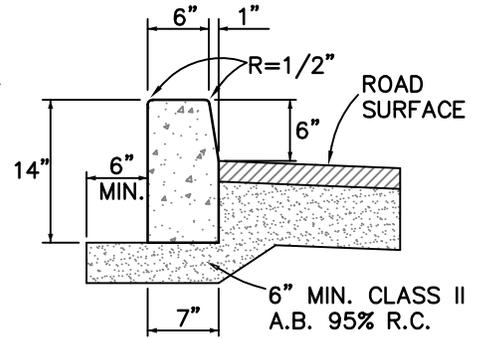
APPVD:

DATE: AUG 2009

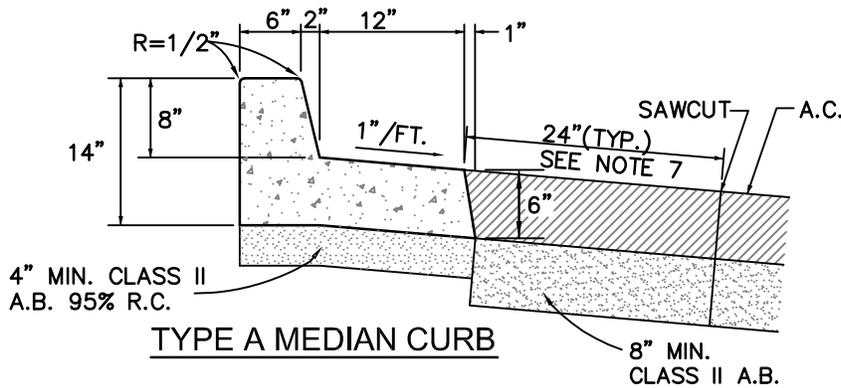
Images: Willits Logo.ppt; Xrefs: Path: \\arosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001\Willits City Standards\CAD\01064-09-001.dwg\Willits201-210.dwg Layout Name: 205 Plot Date: Jul 10, 2009 at 13:46



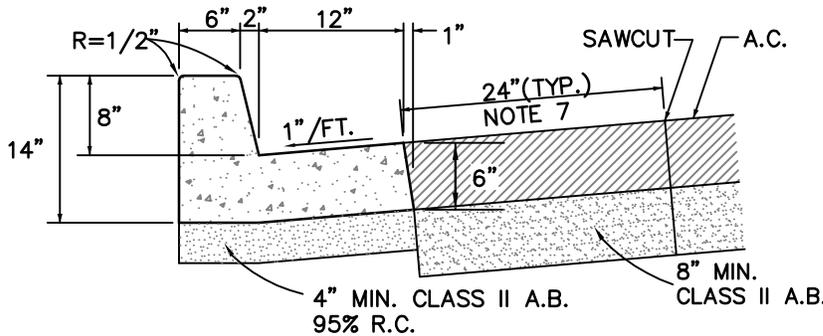
STANDARD CURB AND GUTTER



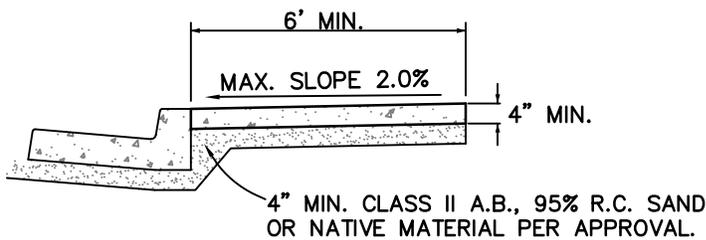
STANDARD VERTICAL CURB



TYPE A MEDIAN CURB



TYPE B MEDIAN CURB



STANDARD SIDEWALK

NOT TO SCALE

NOTES:

1. CONCRETE SHALL BE CLASS A AND SHALL CONTAIN NOT LESS THAN 6 SACKS OF CEMENT PER CUBIC YARD.
2. DEEP SCORES (1/4 WAY THROUGH THICKNESS OF CONCRETE) EVERY 12 FEET.
3. SIDEWALKS SHALL BE SCORED INTO 5 FOOT SQUARES UNLESS OTHERWISE SPECIFIED BY ENGINEER.
4. IF EXTRUSION MACHINE IS USED, EXPANSION JOINTS SHALL BE DEEP SCORED 1/3 THE THICKNESS.
5. WEIGHT OF CURB AND/OR SIDEWALK AND CLASS 2 AGGREGATE SHALL EXCEED THE EXPANSION PRESSURE OF THE BASEMENT SOIL 'R' VALUEE
6. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
7. WHERE APPLICABLE, NEATLY CUT AND REMOVE PAVEMENT. REPLACE WITH NEW A.C. AFTER CURB AND GUTTER IMPROVEMENTS ARE COMPLETE.



CURB, GUTTER AND SIDEWALK

STD. NO.
205

SCALE: NONE

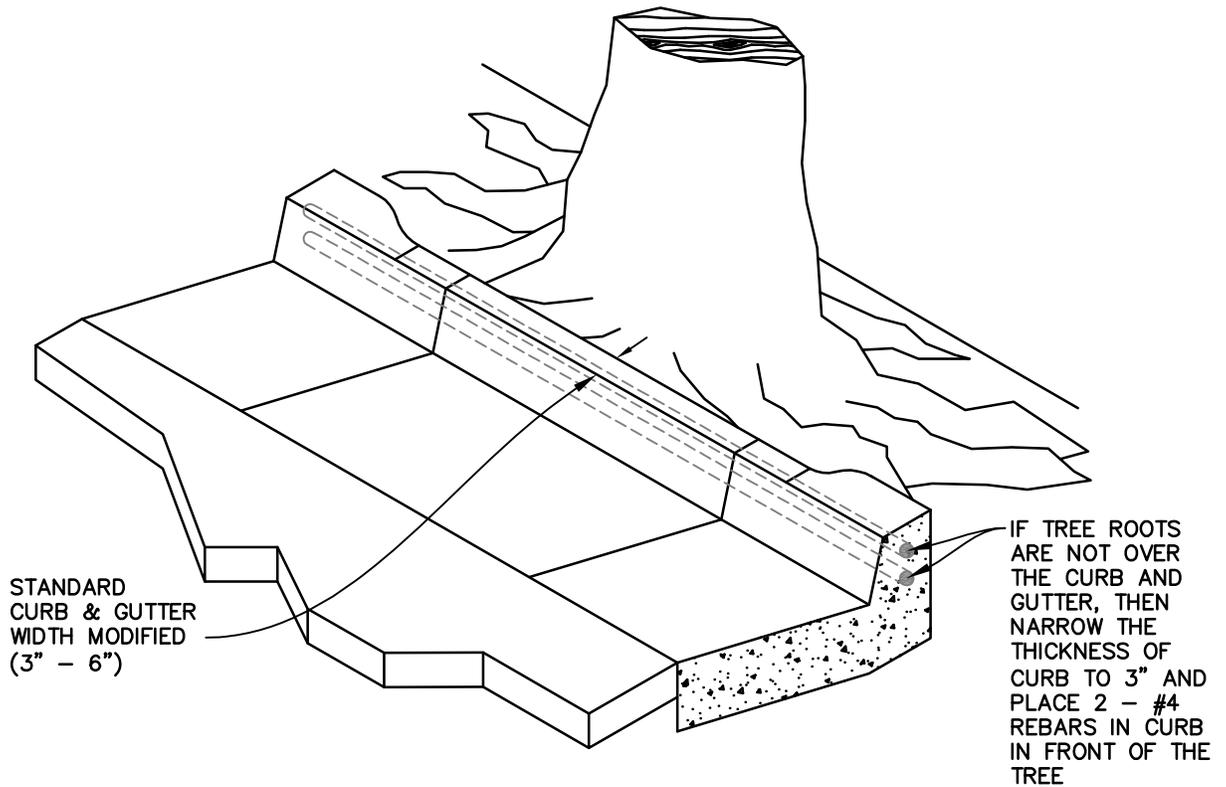
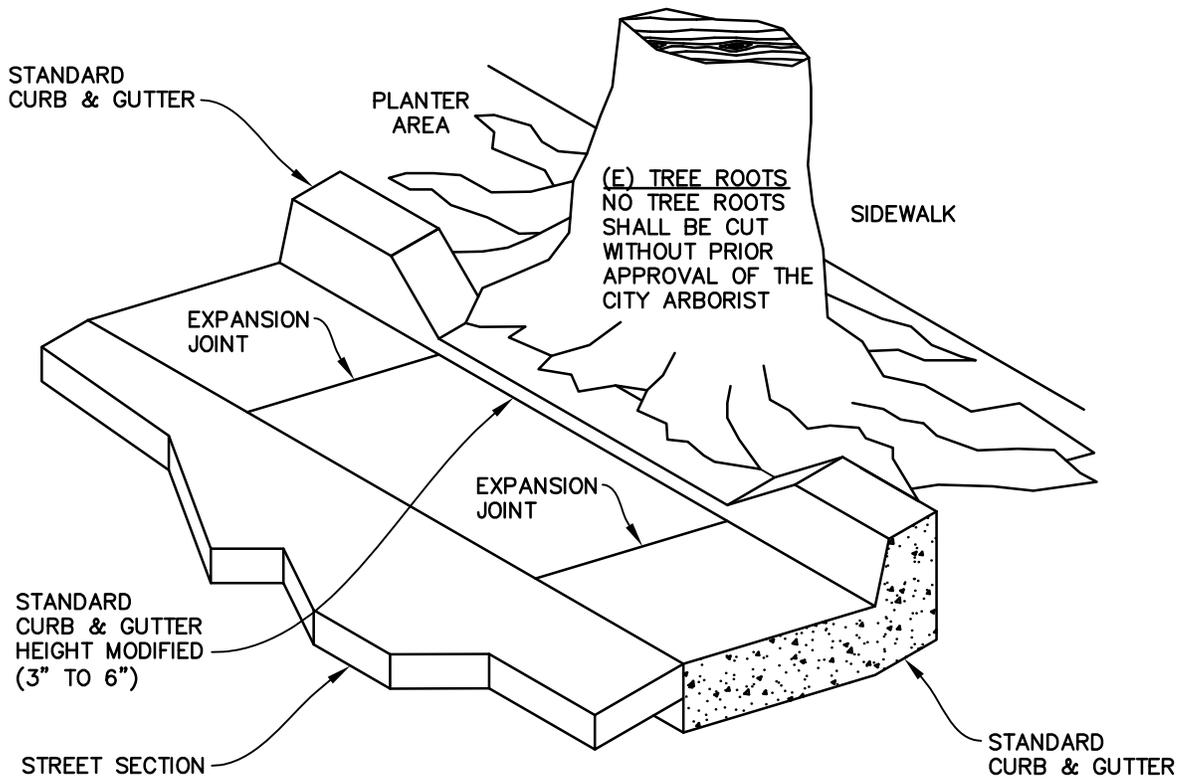
DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009

Images: Willits Logo.ppt; Xrefs: Path: \\erosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD\01064-09-001.dwg\Willits201-210.dwg Layout Name: 206 Plot Date: Jul 10, 2009 at 13:46



CURB AND GUTTER NEAR TREE DETAILS

STD. NO.
206

SCALE: NONE

DRAWN: CFB

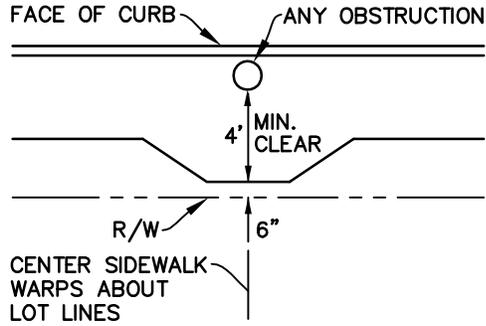
CHK: MGK

APPVD: APPVD

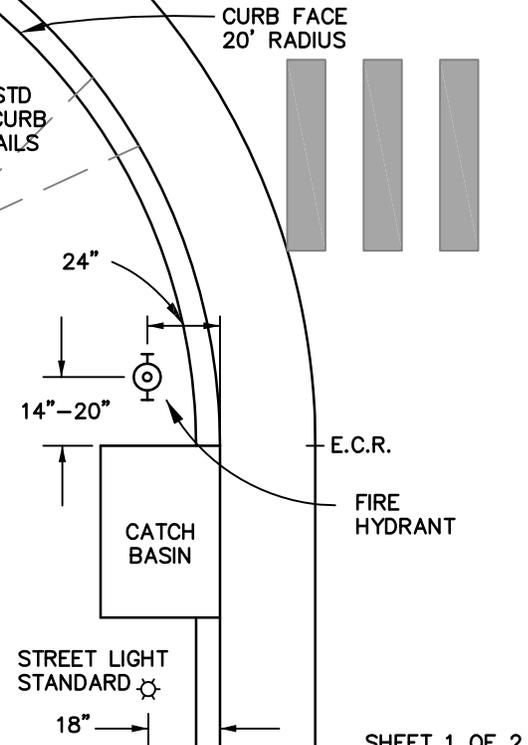
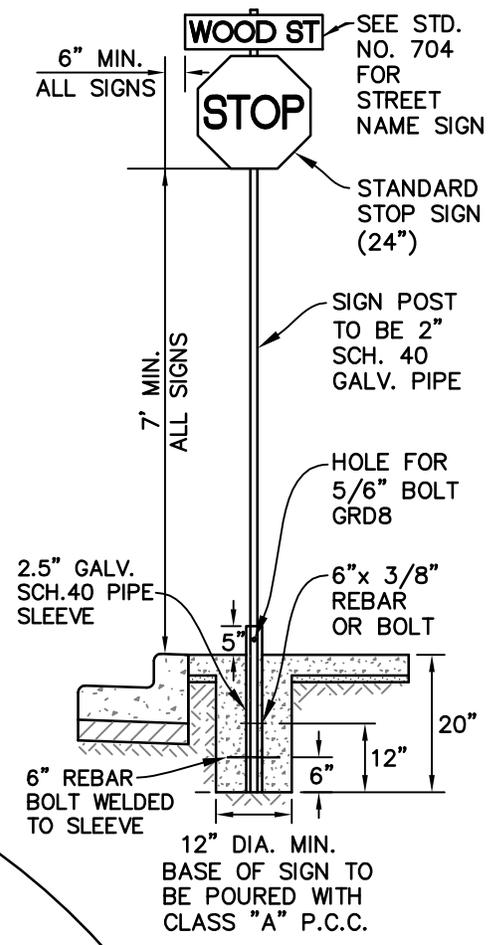
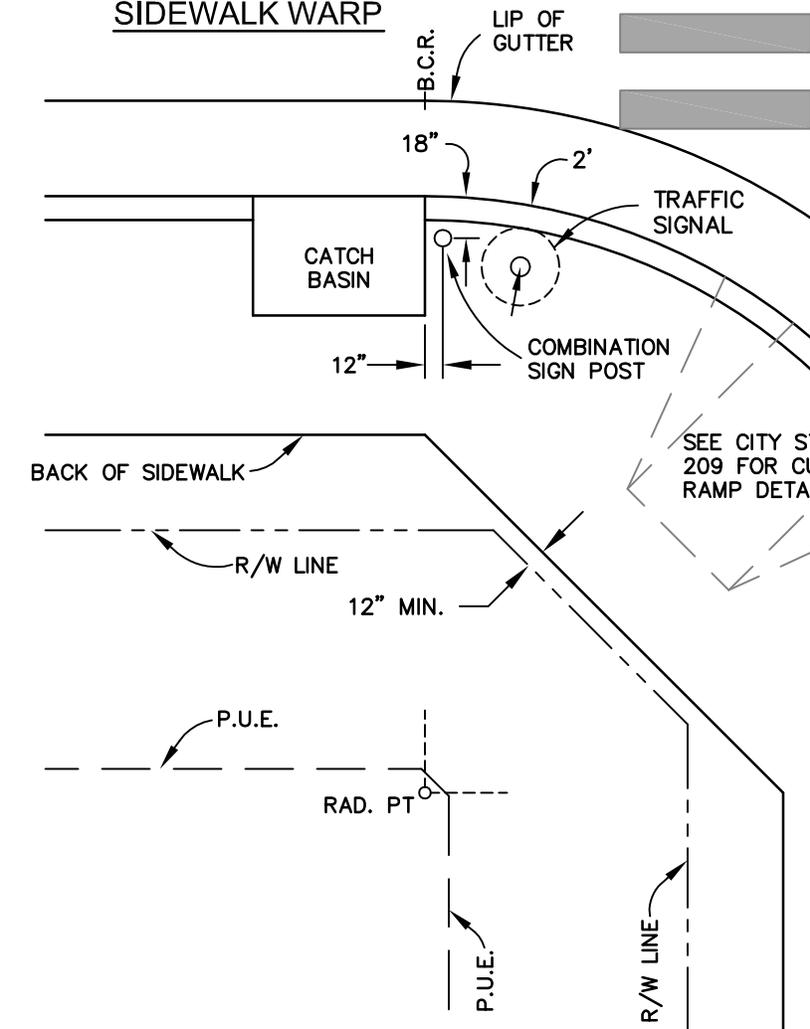
DATE: AUG 2009

NOTES:

1. COMBINATION STREET NAME & STOP SIGN. SIGN POST SHALL BE MINIMUM 18" BEHIND CURB FACE OR 6" BEHIND SIDEWALK.
2. WIDEN OR MEANDER SIDEWALK AT OBSTRUCTIONS (INCLUDING DRIVEWAYS) TO MAINTAIN 4' MIN. CLEARANCE.
3. A 3' CLEAR SPACE SHALL BE MAINTAINED AROUND THE FIRE HYDRANT EXCEPT AS OTHERWISE REQUIRED OR APPROVED.



SIDEWALK WARP



SHEET 1 OF 2

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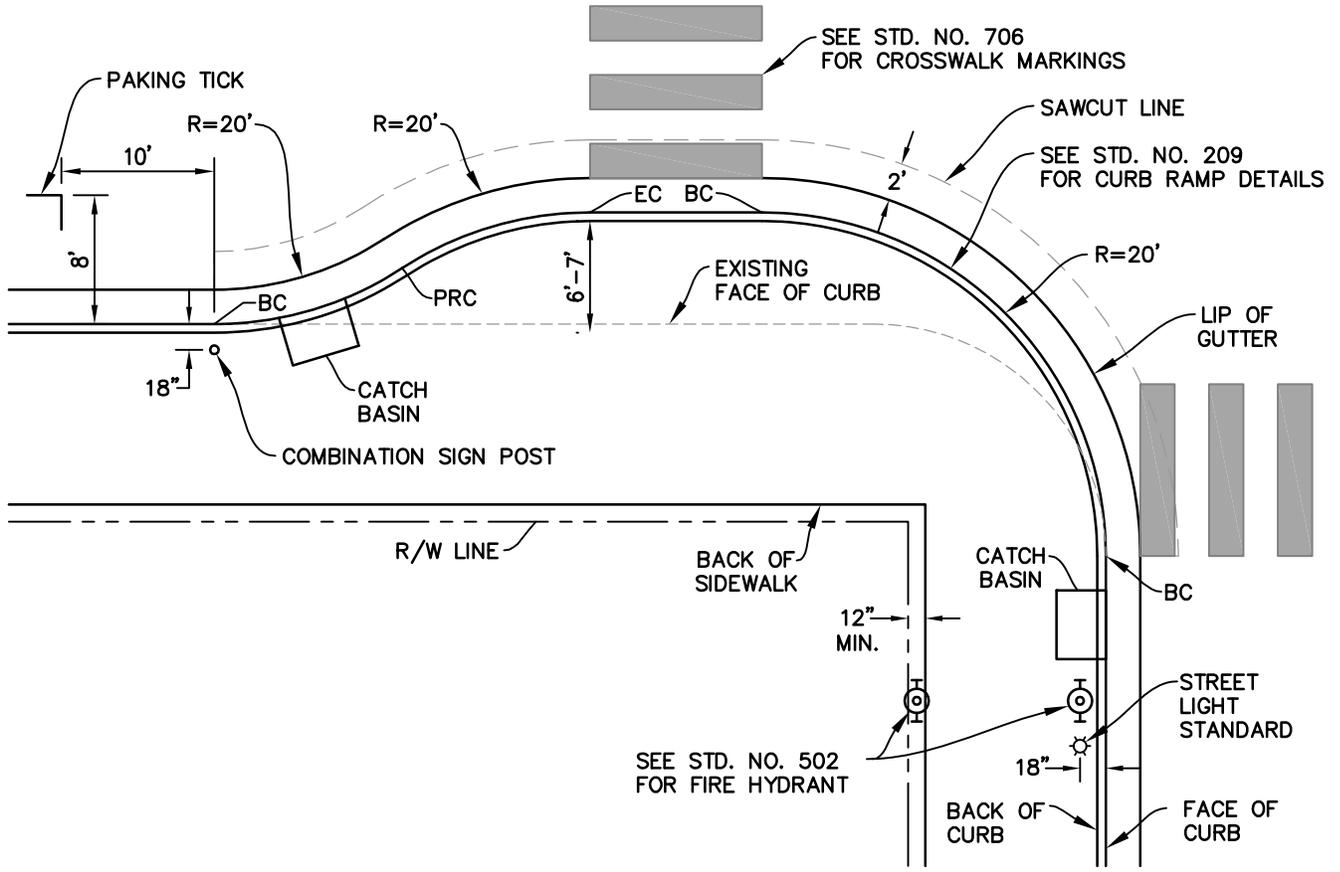


CURB RETURN, SIDEWALK WARP AND CORNER BULBOUT RETROFIT

STD. NO. **207**

SCALE: NONE	DRAWN: CFB	CHK: MGK	APPVD:	DATE: AUG 2009
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Images: Willits Logo.jpg Xrefs: Path: \\arosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001\Willits City Standards\CAD\01064-09-001.dwg\Willits201-210.dwg Layout Name: 207 (2) Plot Date: Jul 10, 2009 at 13:46



NOTES:

1. COMBINATION STREET NAME & STOP SIGN. SIGN POST SHALL BE MINIMUM 18" BEHIND CURB FACE OR 6" BEHIND SIDEWALK
2. WIDEN OR MEANDER SIDEWALK AT OBSTRUCTIONS (INCLUDING DRIVEWAYS) TO MAINTAIN 6' MIN. CLEARANCE.

SHEET 2 OF 2



**CURB RETURN, SIDEWALK WARP
AND CORNER BULBOUT RETROFIT**

STD. NO.
207

SCALE: NONE	DRAWN: CFB	CHK: MGK	APPVD:
			DATE: AUG 2009

1. SIDEWALK TRANSITIONS

- LOCATED ABOVE RAMP OR LANDING
- 48" MIN. WIDTH
- 2% (1:50) MAXIMUM CROSS-SLOPE AT RAMP OR LANDING
- 8.33% (1:12) MAXIMUM SLOPE

2. LANDINGS

- LOCATED ABOVE RAMP
- 48" MIN. DIMENSION IN ALL DIRECTIONS
- 2% (1:50) MAXIMUM CROSS-SLOPE OR SLOPE IN ALL DIRECTIONS, INCLUDING DIAGONAL

3. RAMPS

- LOCATED ABOVE PAN OR BELOW LANDINGS
- 48" MIN. WIDTH
- 2% (1:50) MAXIMUM CROSS-SLOPE
- 8.33% (1:12) MAXIMUM SLOPE
- TRANSITION TO GUTTER SHALL BE FLUSH AND FREE OF ABRUPT CHANGES

4. PANS

- LOCATED BELOW RAMP
- 48" MIN. AT BACK OF PAN
- 48" MIN. FROM BACK OF PAN TO FLOW LINE
- 1% (1:100) MINIMUM SLOPE FROM BACK OF PAN TO FLOW LINE
- 2% (1:12) MAXIMUM CROSS-SLOPE OR SLOPE IN ALL DIRECTIONS, INCLUDING DIAGONAL
- ON CORNERS, PAN BOUNDARIES ARE TO BE RADIAL TRANSITION TO GUTTER SHALL BE FLUSH AND FREE OF ABRUPT CHANGES

5. GUTTERS

- ADJACENT TO RAMP OR PAN
- 1% (1:100) MINIMUM SLOPE FROM BACK OF PAN TO FLOW LINE
- 2% (1:12) MAXIMUM CROSS-SLOPE OR SLOPE IN ALL DIRECTIONS, INCLUDING DIAGONAL
- ON CORNERS, PAN BOUNDARIES ARE TO BE RADIAL TRANSITION TO GUTTER SHALL BE FLUSH AND FREE OF ABRUPT CHANGES
- DUAL CURB RAMPS ARE REQUIRED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- ALL ELEMENTS, EXCEPT GUTTERS AND RETAINING CURBS, MUST BE CONSTRUCTED PLANAR IN NATURE WITH WEAKENED PLANE JOINTS SCORED BETWEEN EACH ELEMENT.
- WHEN FEASIBLE, OPPOSING CURB RAMPS SHALL ALIGN, THESE DEFINITIONS AND STANDARDS, GENERAL DETAILS, AND STANDARD DRAWINGS SHALL APPLY TO ALL CURB AND GUTTER TYPES.
- THERE ARE VARIATIONS AND ADJUSTMENTS THAT MAY BE REQUIRED UPON THE APPROVAL OF THE ENGINEER.
- THERE ARE NO VARIANCES THE THE MAXIMUM ALLOWABLE SLOPES AND CROSS-SLOPES.

6. FLARES

- LOCATED ADJACENT TO RAMP
- REQUIRED BETWEEN RAMPS WHERE THERE IS NO PLANTER AREA
- REQUIRED ON THE EXTERIOR OF RAMPS WHERE THERE IS AN ADJACENT CONCRETE SIDEWALK, REGARDLESS OF OBSTACLES
- GENERALLY TRIANGULAR-SHAPED
- 10% (1:10) MAXIMUM SLOPE

7. RETAINING CURB

- REQUIRED ADJACENT TO SIDEWALK TRANSITIONS, LANDINGS, RAMPS, AND PANS WHERE THE EXISTING LANDSCAPE (PLANTER) AREA IS 4" OR HIGHER AT ANY POINT ABOVE THE NEWLY CONSTRUCTED CURB RAMP ELEMENT
- REQUIRED FOR EXISTING PLANTER AREAS BETWEEN RAMPS
- RETAINING CURBS ARE TO HAVE A 6" WIDTH AND A VERTICAL FACE
- RETAINING CURB FOUNDATIONS ARE TO EXTEND 8" BELOW THE ADJACENT RAMP ELEMENT SURFACE
- OUTSIDE CORNERS OF RETAINING CURBS MUST HAVE A 6" RADIUS

8. 12" GROOVING DETAILS

- REQUIRED ADJACENT TO (ON FLAT AREAS ABOVE) RAMP AND FLARE
- REQUIRED TO BE PERPENDICULAR TO THE PATH OF TRAVEL

9. CONCRETE COLORING

- LAMP BLACK OR OTHER COLORING SHALL BE ADDED TO NEW CONCRETE AS NECESSARY TO MATCH EXISTING COLOR. THIS APPLIES TO ALL IN FILL LOCATIONS.

10. DETECTABLE WARNING SURFACE

- DETECTABLE WARNING SURFACE SHALL CONFORM TO CALTRANS STANDARD PLAN RSP A88A OR NEWEST VERSION.

11. SIGHT DISTANCE

- MATURE PLANT HEIGHT IN LANDSCAPE PLANTER STRIPS SHALL NOT EXCEED 24" WITHIN CORNER SIGHT VISIBILITY TRIANGLES



**PEDESTRIAN RAMP ELEMENTS
DEFINITIONS AND STANDARDS**

STD. NO.
209

SCALE: NONE

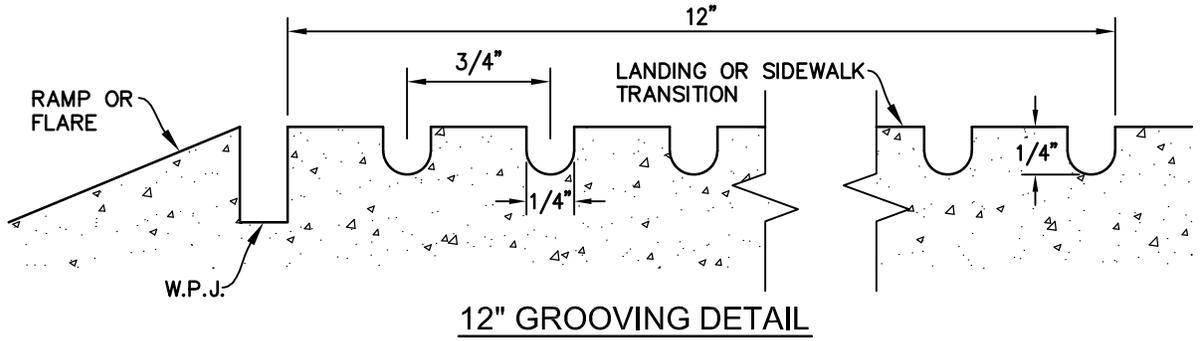
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CHK: MGK

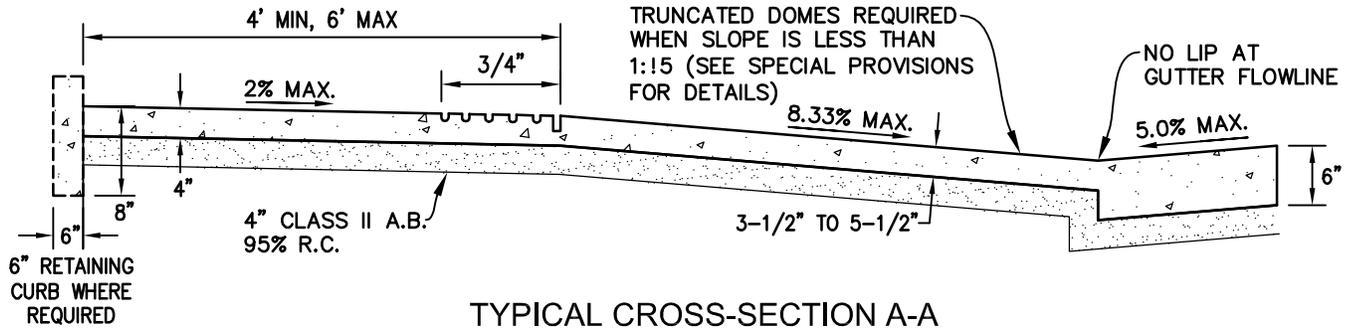
APPVD:

DATE: AUG 2009

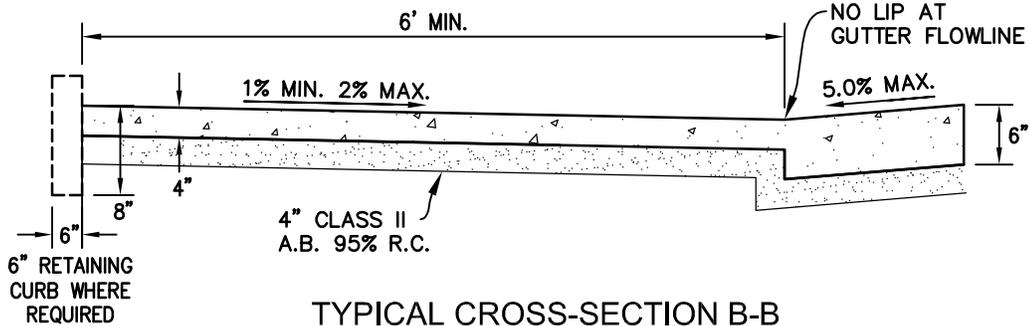
Images: Willits Logo.ppt; Xrefs: Path: \\srosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001\Willits City Standards\CAD\01064-09-001\dwg\Willits201-210.dwg Layout Name: 209 (2) Plot Date: Jul 10, 2009 at 13:46



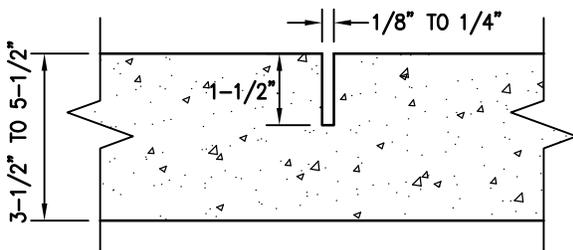
12" GROOVING DETAIL



**TYPICAL CROSS-SECTION A-A
FOR CENTERLINE OF TYPE A,B,C**



**TYPICAL CROSS-SECTION B-B
FOR CENTERLINE OF TYPE F**



WEAKENED PLANE JOINT (WPJ)

NOTES:

1. ON RAMPS ADJACENT TO PANS TRUNCATED DOMES ARE REQUIRED WHEN SLOPE IS LESS THAN 1:15 (SEE STANDARD SPECIFICATIONS FOR DETAILS).
2. SURFACE OF RAMPS AND PANS SHALL HAVE A TRANSVERSE BROOM SURFACE TEXTURE ROUGHER THAN ADJACENT SIDEWALK.

SHEET 2 OF 12



**PEDESTRIAN RAMP
GENERAL DETAILS**

STD. NO.
209

SCALE: NONE

DRAWN: CFB

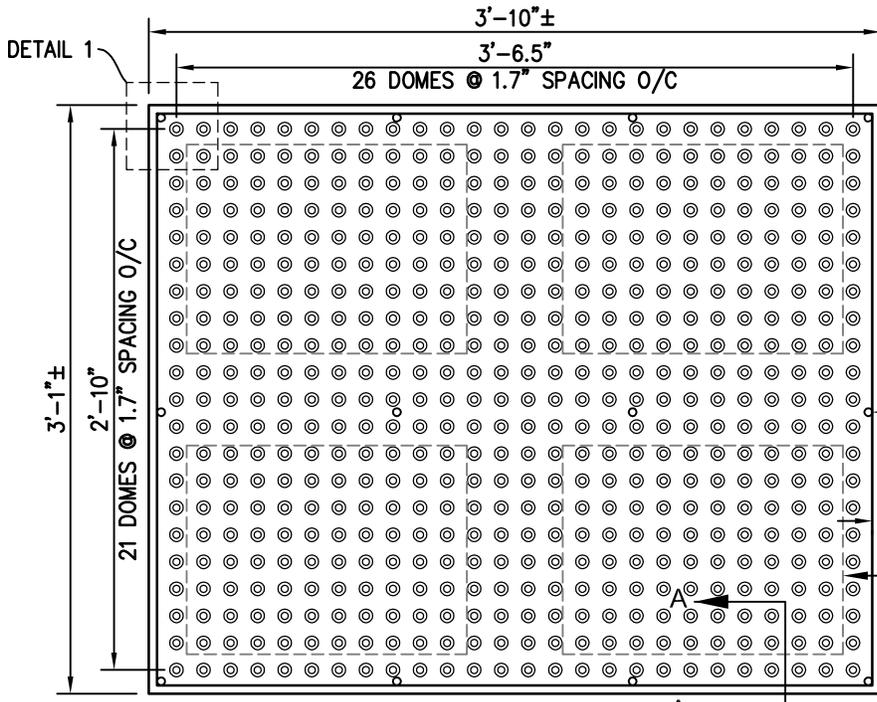
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APPVD:

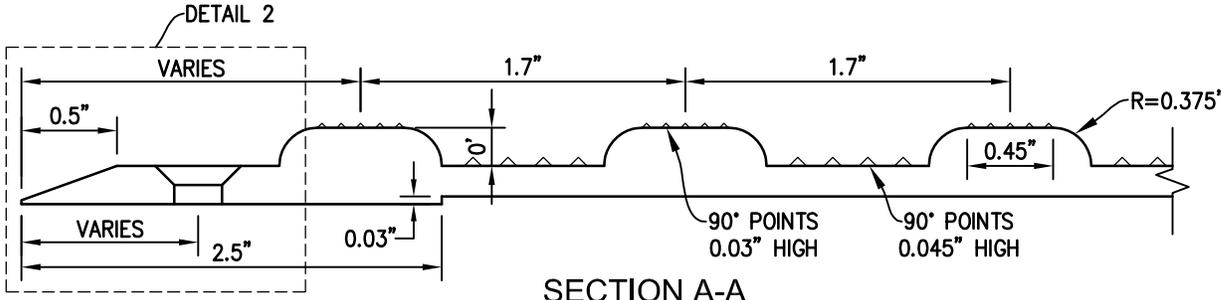
DATE: AUG 2009

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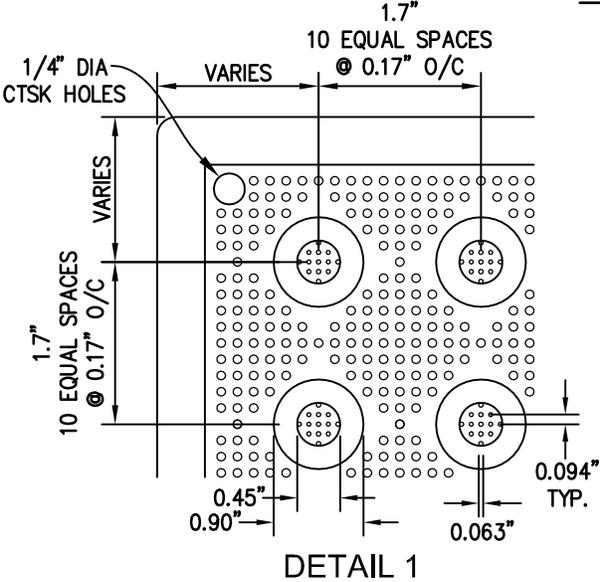
SURFACE MOUNTED TILE DETAILS SHOWN. DETAILS ARE APPLICABLE TO TILE SURFACE SECTION ONLY. CAST-IN-PLACE TILE UNIT DESIGN AND DETAILS TO BE APPROVED BY THE ENGINEER. TILE MATERIAL, FASTENERS, AND ADHESIVE TO BE APPROVED BY THE ENGINEER.



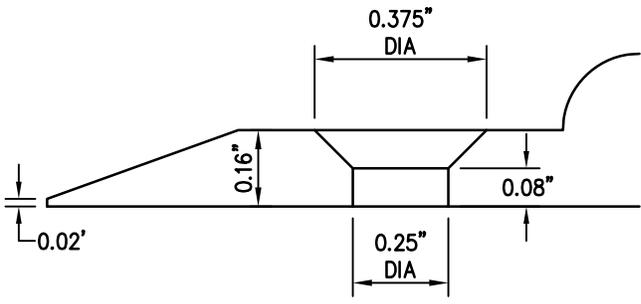
PLAN - TILE



SECTION A-A



DETAIL 1



DETAIL 2

Images: Willits Logo.ppt; Xrefs: Path: \\srosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001\Willits City Standards\CAD\01064-09-001\dwg\Willits201-210.dwg Layout Name: 209 (3) Plot Date: Jul 10, 2009 at 13:46

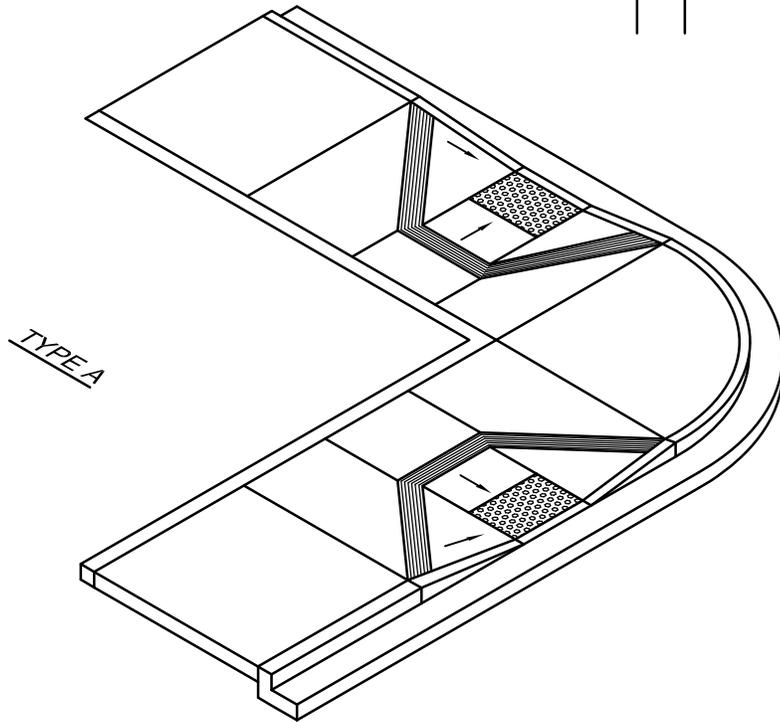
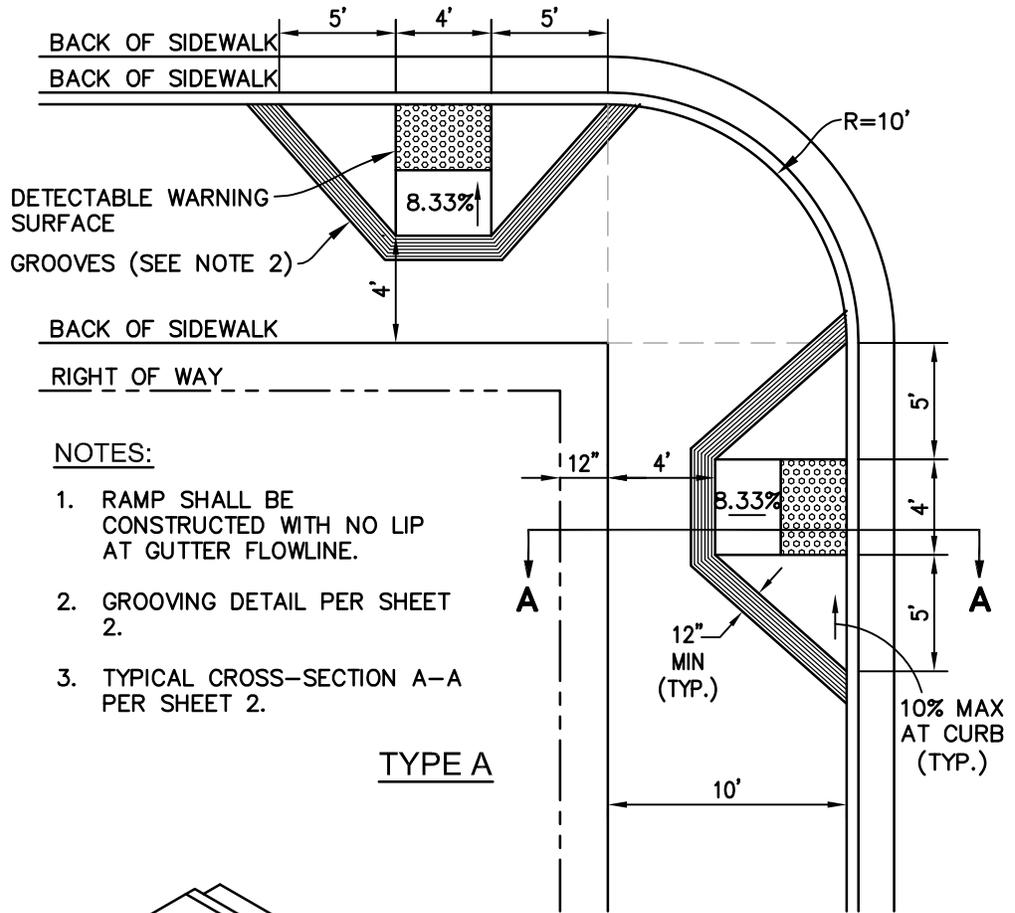


**PEDESTRIAN RAMP
TRUNCATED DOME DETAILS**

STD. NO.
209

SCALE: NONE	DRAWN: CFB	CHK: MGK	APPVD:	DATE: AUG 2009
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Images: Willits Logo.jpg; Xrefs: Path: \\erosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001\Willits City Standards\CAD\01064-09-001\dwg\Willits201-210.dwg Layout Name: 209 (4) Plot Date: Jul 10, 2009 at 13:46



SHEET 4 of 12



PEDESTRIAN RAMP TYPE A

STD. NO.
209

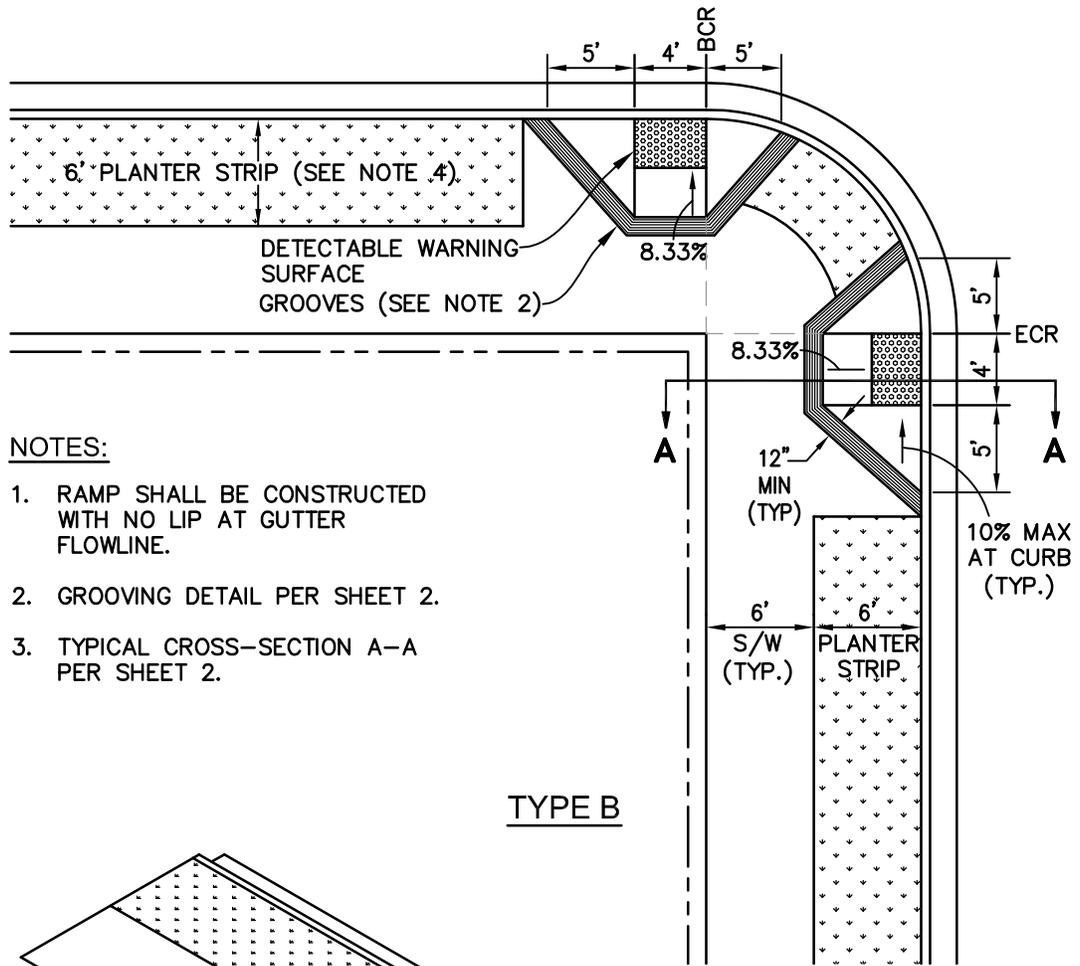
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CHK: MGK

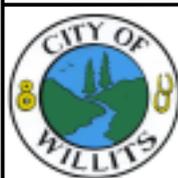
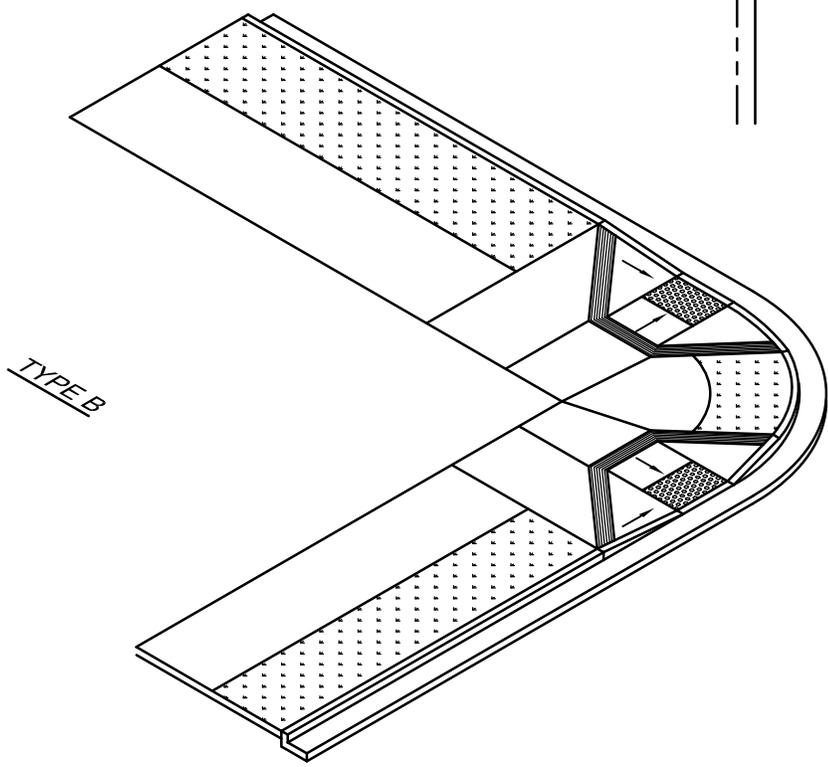
APPVD:

DATE: AUG 2009



- NOTES:**
1. RAMP SHALL BE CONSTRUCTED WITH NO LIP AT GUTTER FLOWLINE.
 2. GROOVING DETAIL PER SHEET 2.
 3. TYPICAL CROSS-SECTION A-A PER SHEET 2.

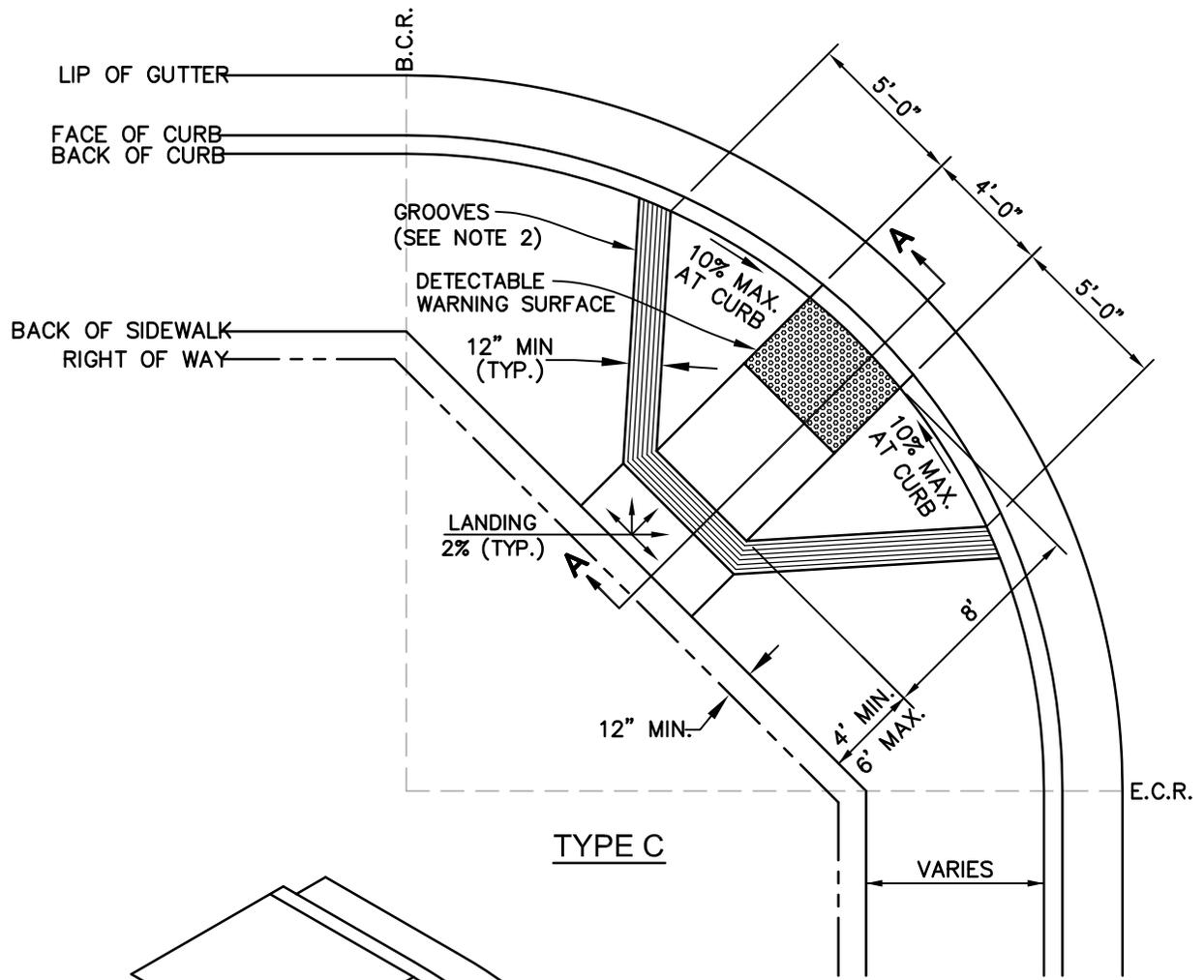
TYPE B



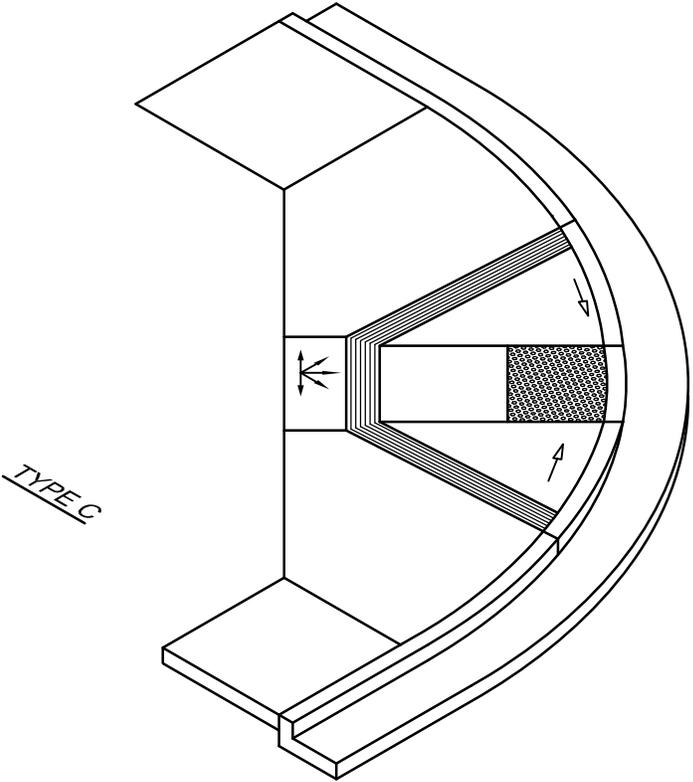
**PEDESTRIAN RAMP
TYPE B**

STD. NO.
209

SCALE: NONE	DRAWN: CFB	CHK: MGK	APPVD:	DATE: AUG 2009
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TYPE C



TYPE C

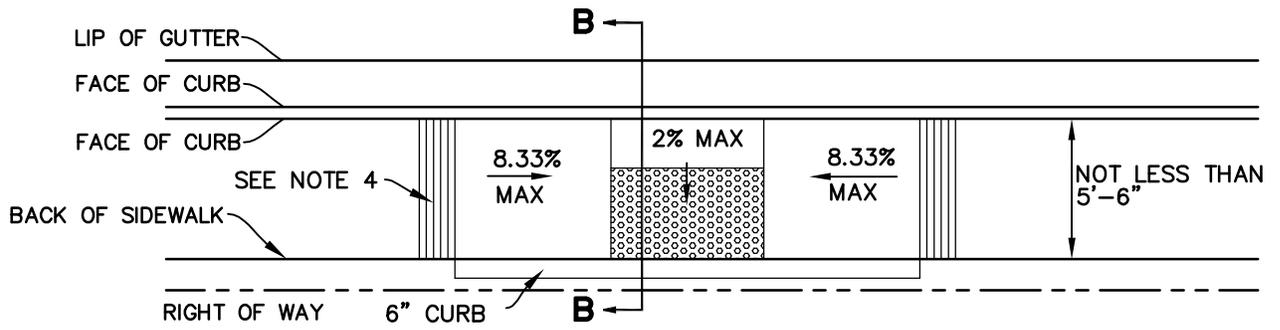
- NOTES:**
1. RAMP SHALL BE CONSTRUCTED WITH NO LIP AT GUTTER FLOWLINE.
 2. GROOVING DETAIL PER SHEET 2.
 3. TYPICAL CROSS-SECTION A-A PER SHEET 2.



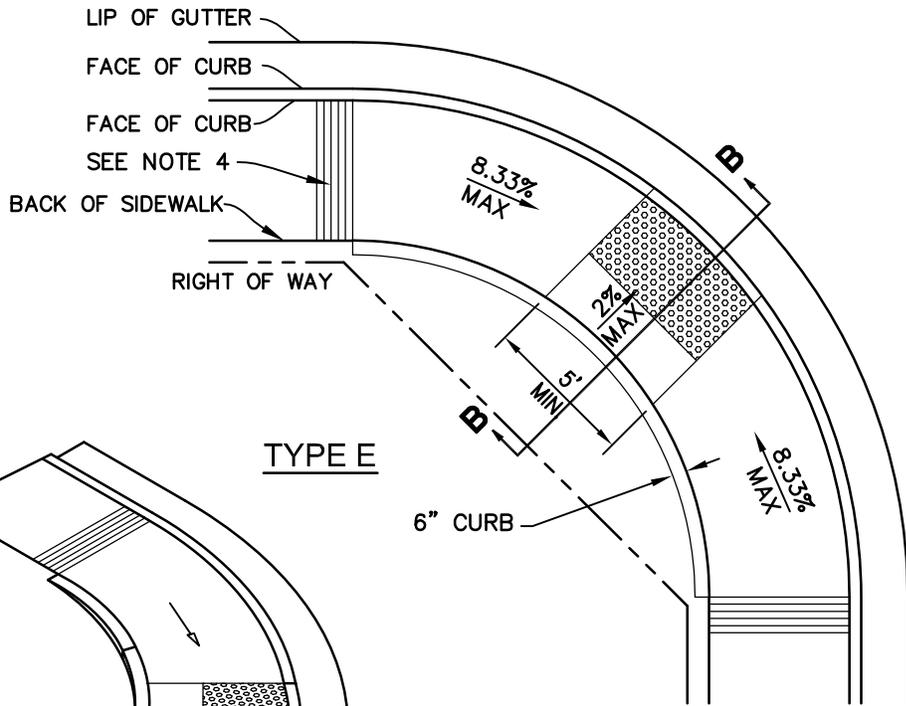
**PEDESTRIAN RAMP
TYPE C**

STD. NO.
209

SCALE: NONE	DRAWN: CFB	CHK: MGK	APPVD:	DATE: AUG 2009
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TYPE D



TYPE E

TYPE C

NOTES:

1. RAMP SHALL BE CONSTRUCTED WITH NO LIP AT GUTTER FLOWLINE.
2. TYPE D AND E RAMPS SHALL BE LOCATED AT THE CENTER OF THE CURB RETURN.
3. CONCRETE SHALL BE CLASS "A" WITH NOT LESS THAN 6 SACKS OF CEMENT PER CUBIC YARD. SIDEWALK AND RAMP THICKNESS SHALL BE 4".
4. GROOVING DETAIL PER SHEET 2 of 12.
5. DESIGN SHALL CONFORM TO THESE REQUIREMENTS, EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.

SHEET 7 of 12



**PEDESTRIAN RAMP
TYPE D & E**

STD. NO.
209

SCALE: NONE

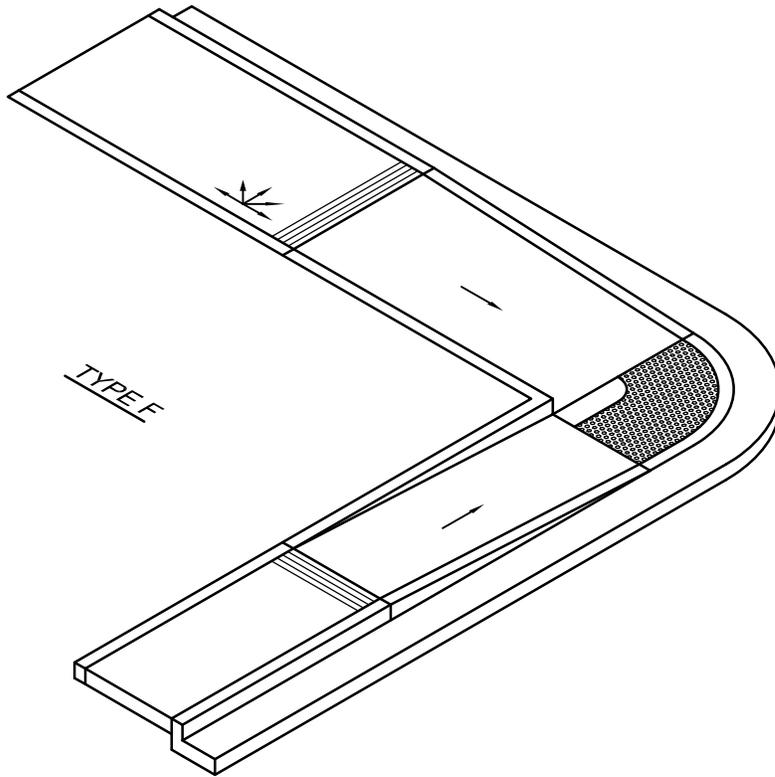
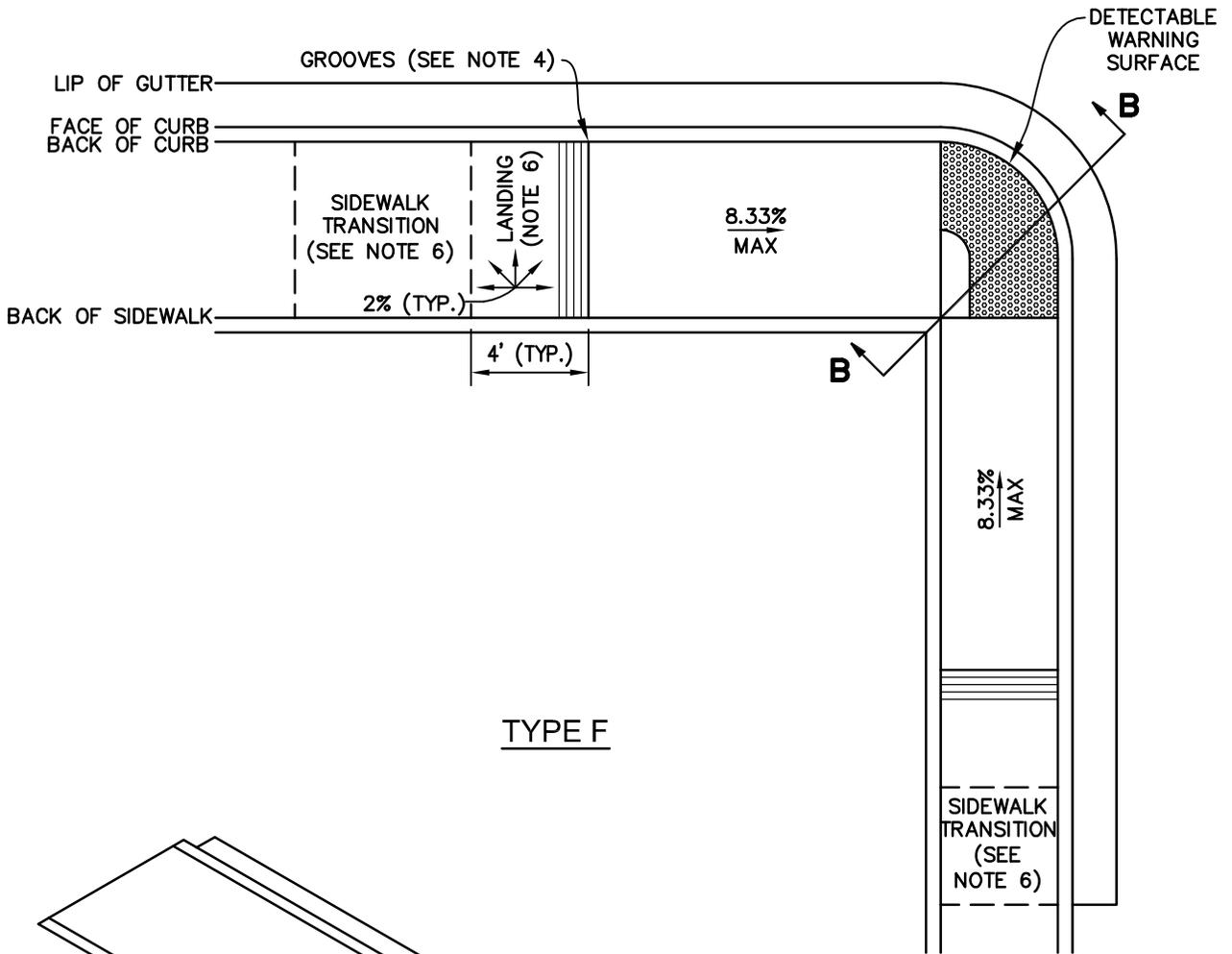
DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009

Images: Willits Logo.jpg Xrefs: Path: \\erosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD 01064-09-001.dwg\Willits201-210.dwg Layout Name: 209 (6) Plot Date: Jul 10, 2009 at 13:46



SHEET 8 of 12



PEDESTRIAN RAMP TYPE F

STD. NO.
209

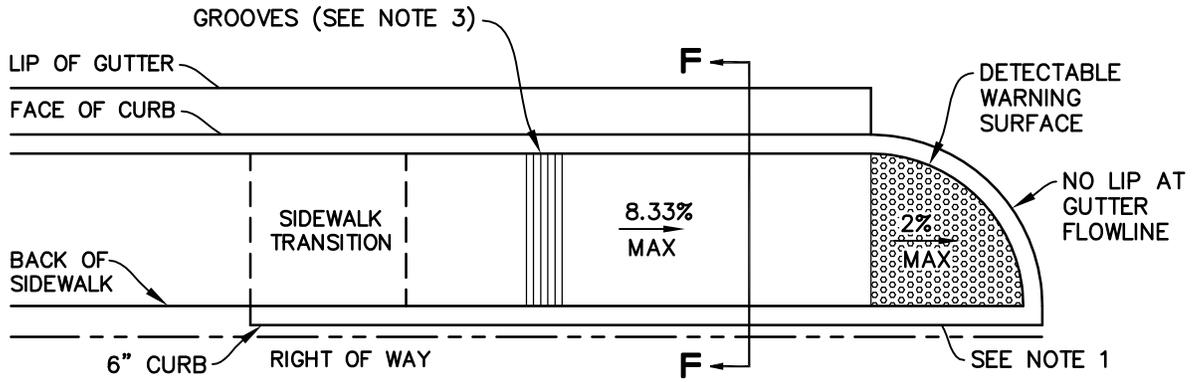
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DRAWN: CFB

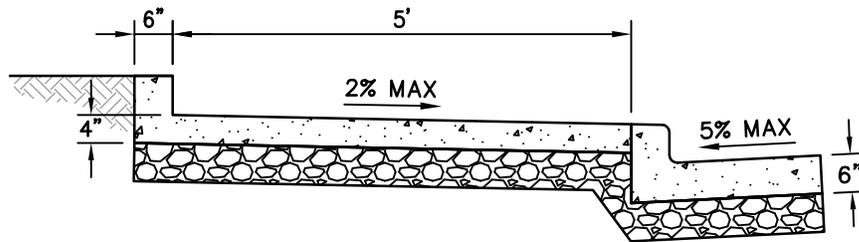
CHK: MGK

APPVD:

DATE: AUG 2009



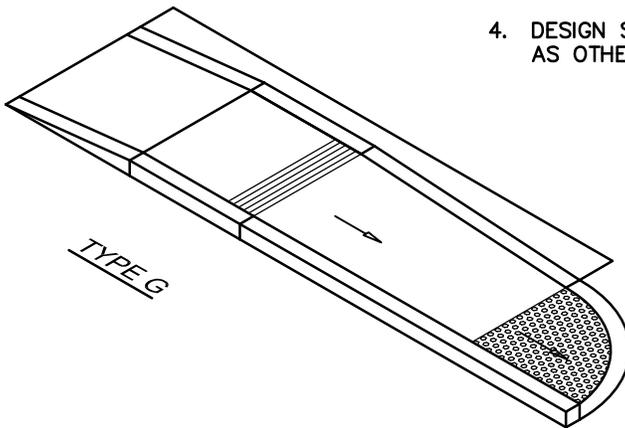
TYPE G



SECTION F-F

NOTES:

1. RAMP SHALL BE CONSTRUCTED WITH NO LIP AT GUTTER FLOWLINE.
2. CONCRETE SHALL BE CLASS "A" WITH NOT LESS THAN 6 SACKS OF CEMENT PER CUBIC YARD.
3. GROOVING DETAIL PER SHEET 2.
4. DESIGN SHALL CONFORM TO THESE REQUIREMENTS, EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.



SHEET 9 of 12



**PEDESTRIAN RAMP
TYPE G**

STD. NO.
209

SCALE: NONE

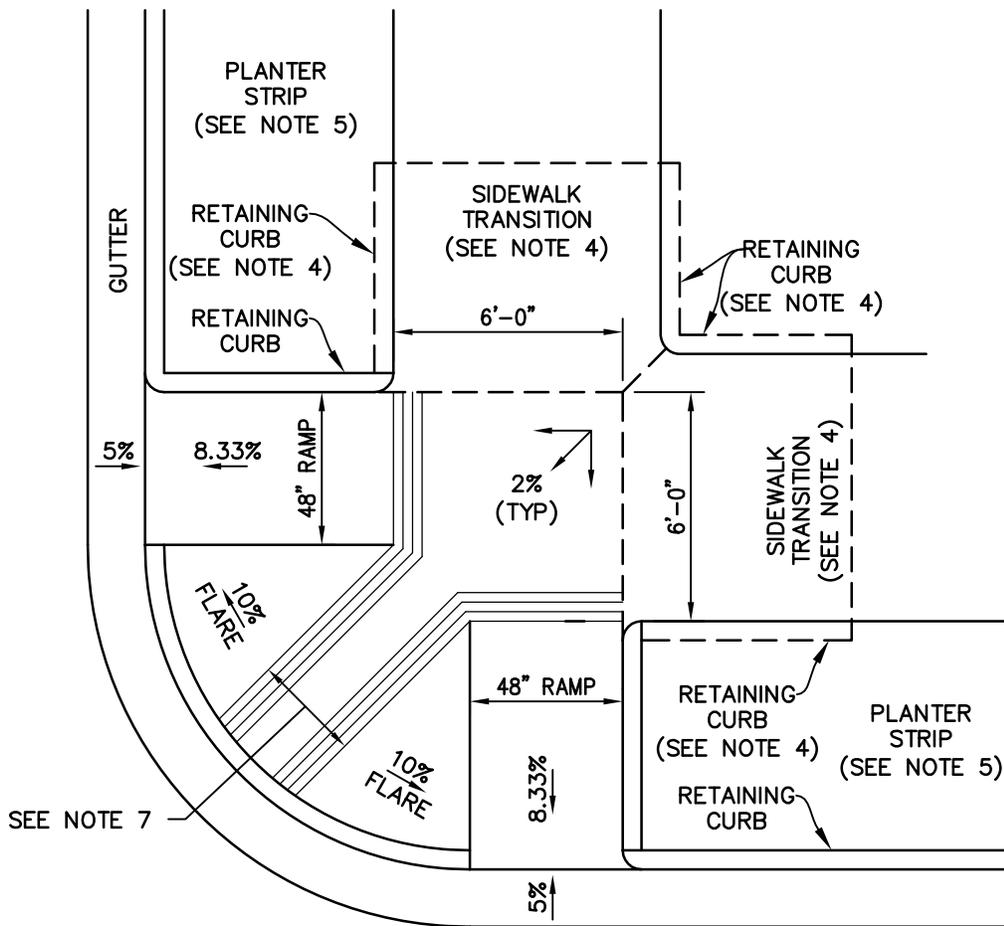
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CHK: MGK

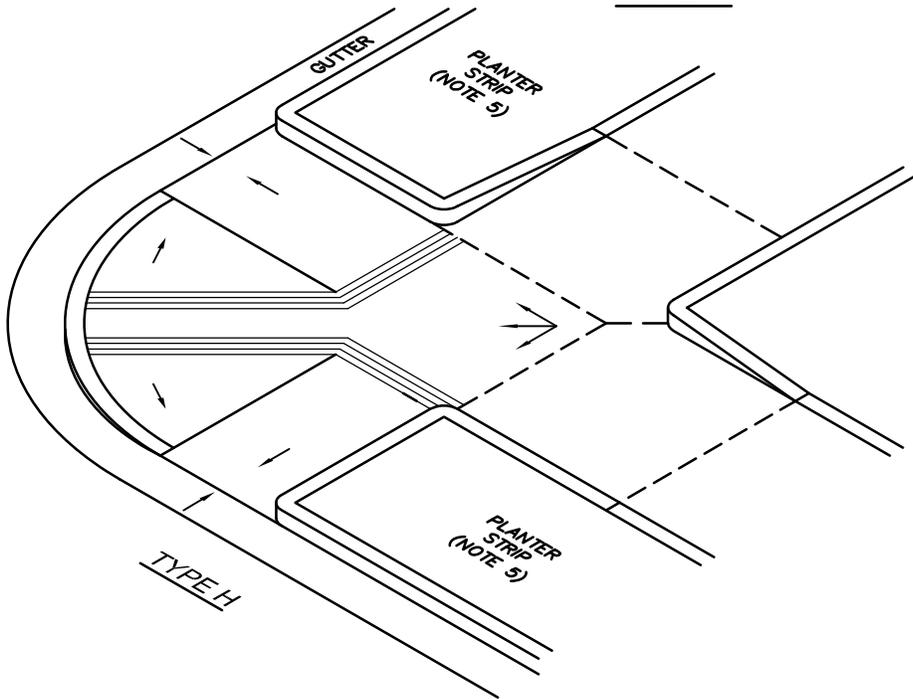
APPVD:

DATE: AUG 2009

Images: Willits Logo.jpg Xrefs: Path: \\erosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD 01064-09-001.dwg\Willits201-210.dwg Layout Name: 209 (10) Plot Date: Jul 10, 2009 at 13:46



TYPE H



NOTES:

1. ALL SLOPES SHOWN ARE MAXIMUMS.
2. ALL DIMENSIONS SHOWN ARE MAXIMUMS.
3. ALL RAMPS MUST BE LOCATED INSIDE CROSSWALKS OR IN FRONT OF STOP BARS.
4. CONSTRUCTED IF REQUIRED BY EXISTING CONDITIONS.
5. CONTINUE TO MATCH SIDEWALK WITH AND SCORE PATTERN (MIN. 48")
6. MATURE PLANT HEIGHT SHALL NOT EXCEED 24" WITHIN CORNER SIGHT TRIANGLES.
7. NO MINIMUM DIMENSION. GROOVE PATTERNS OR FLARES CAN INTERSECT.

SHEET 10 of 12



**PEDESTRIAN RAMP
TYPE H**

STD. NO.
209

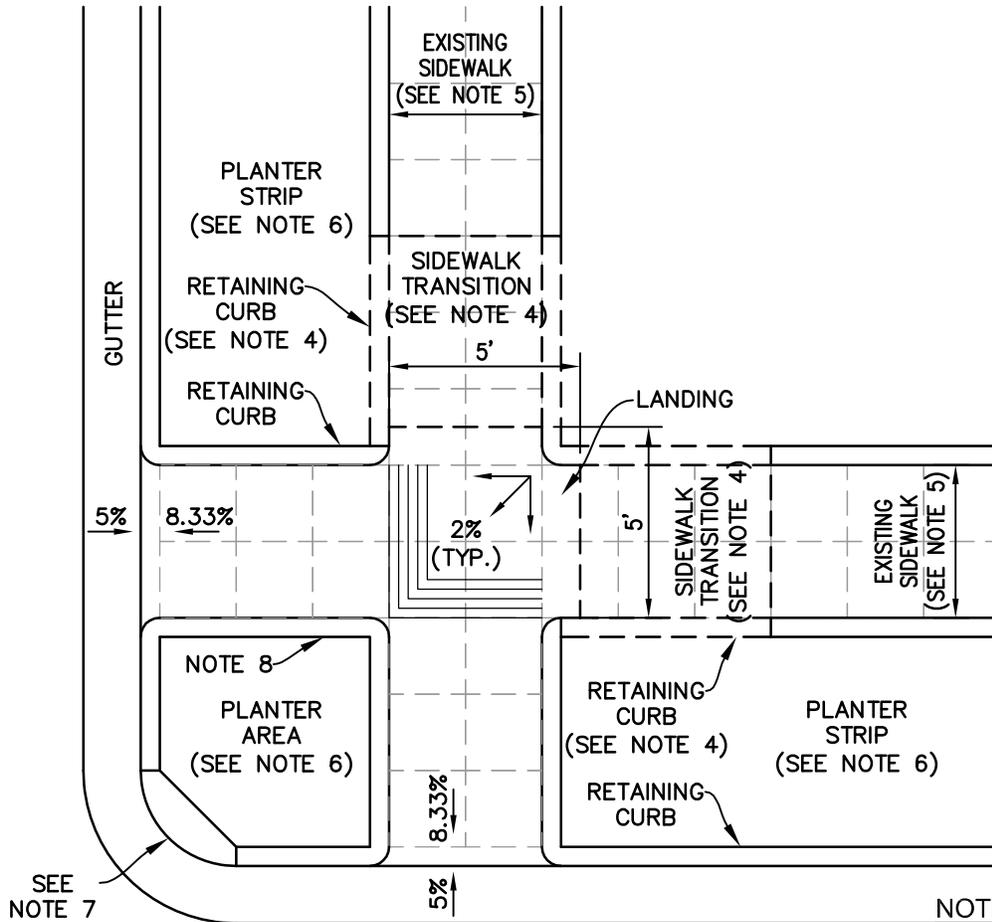
SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD:

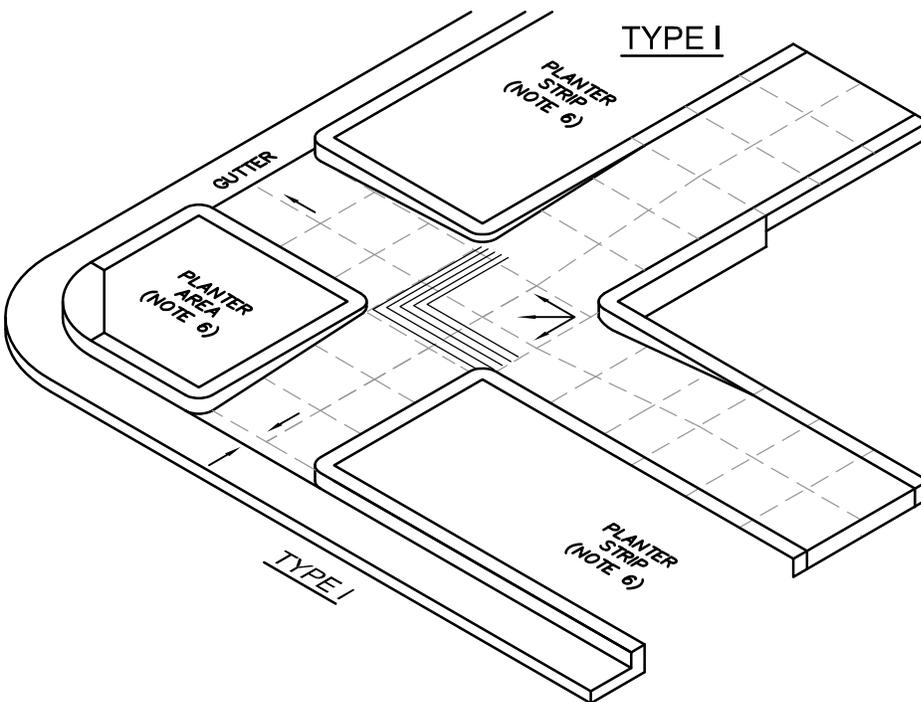
DATE: AUG 2009



NOTES:

1. ALL SLOPES SHOWN ARE MAXIMUMS.
2. ALL DIMENSIONS SHOWN ARE MAXIMUMS.
3. ALL RAMPS MUST BE LOCATED INSIDE CROSSWALKS OR IN FRONT OF STOP BARS.
4. CONSTRUCTED IF REQUIRED BY EXISTING CONDITIONS.
5. CONTINUE TO MATCH SIDEWALK WITH AND SCORE PATTERN (MIN. 48")
6. MATURE PLANT HEIGHT SHALL NOT EXCEED 24" WITHIN CORNER SIGHT TRIANGLES.
7. STANDARD CURB HEIGHT TO MATCH EXISTING.
8. TOP OF RETAINING CURB TO MATCH ADJACENT RETAINING CURB ELEVATIONS. CAN BE FLUSH WITH LANDING

SHEET 11 of 12



**PEDESTRIAN RAMP
TYPE I**

STD. NO.

209

SCALE: NONE

DRAWN: CFB

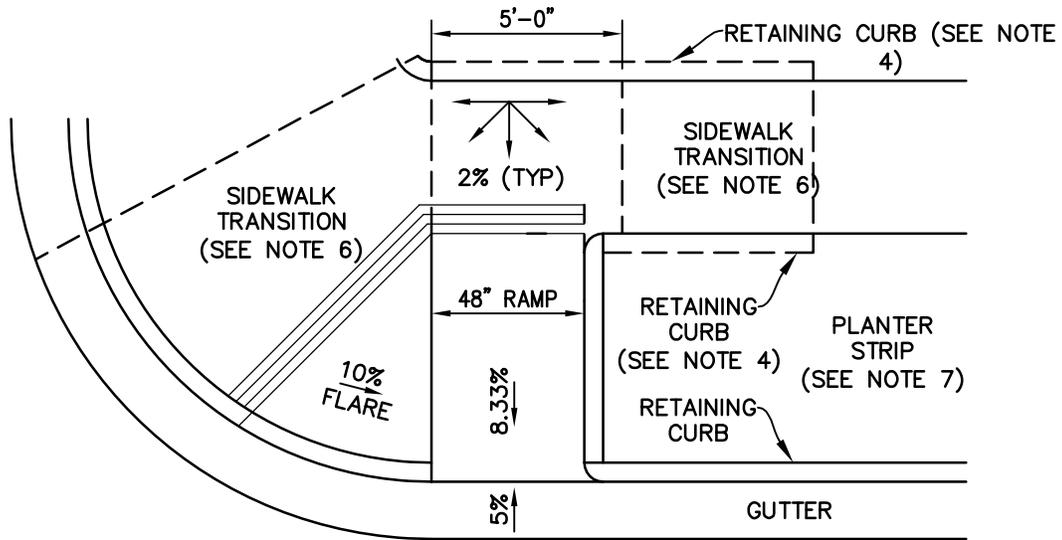
CHK: MGK

APPVD:

DATE: AUG 2009



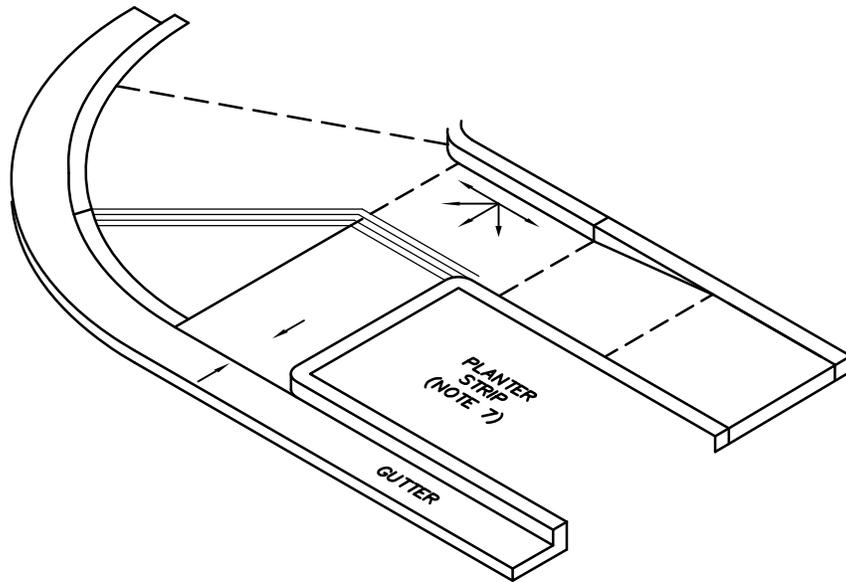
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 Layout Name: 209 (12) Plot Date: Jul 10, 2009 at 13:46



TYPE J

NOTES:

1. ALL SLOPES SHOWN ARE MAXIMUMS.
2. ALL DIMENSIONS SHOWN ARE MINIMUMS.
3. ALL RAMPS MUST BE LOCATED INSIDE CROSSWALKS OR IN FRONT OF STOP BARS.
4. ALL JOINTS BETWEEN ELEMENTS, EXCEPT BETWEEN RAMP AND FLARE, ARE RADIAL. RAMP WIDTH REMAINS CONSTANT.
5. SINGLE RAMPS CAN BE CONSTRUCTED ON A TANGENT.
6. CONSTRUCTED IF REQUIRED BY EXISTING CONDITIONS.
7. MATURE PLANT HEIGHT SHALL NOT EXCEED 24" WITHIN CORNER SIGHT TRIANGLES.



SHEET 12 of 12



**PEDESTRIAN RAMP
TYPE J**

STD. NO.
209

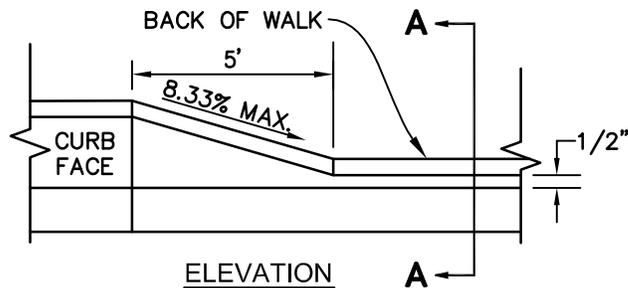
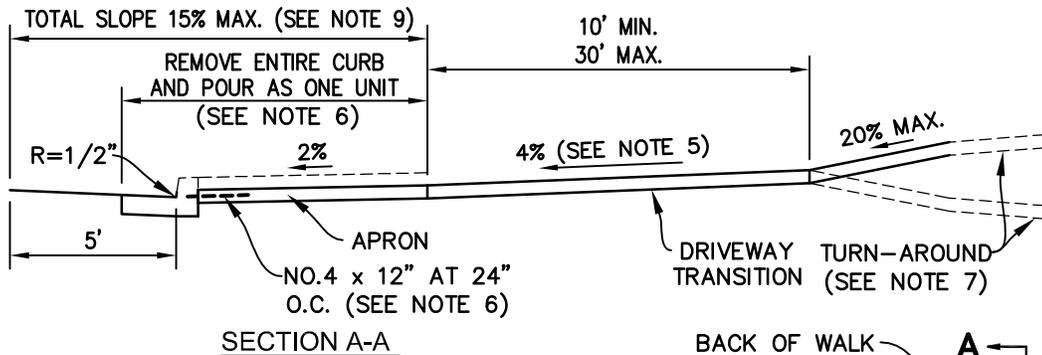
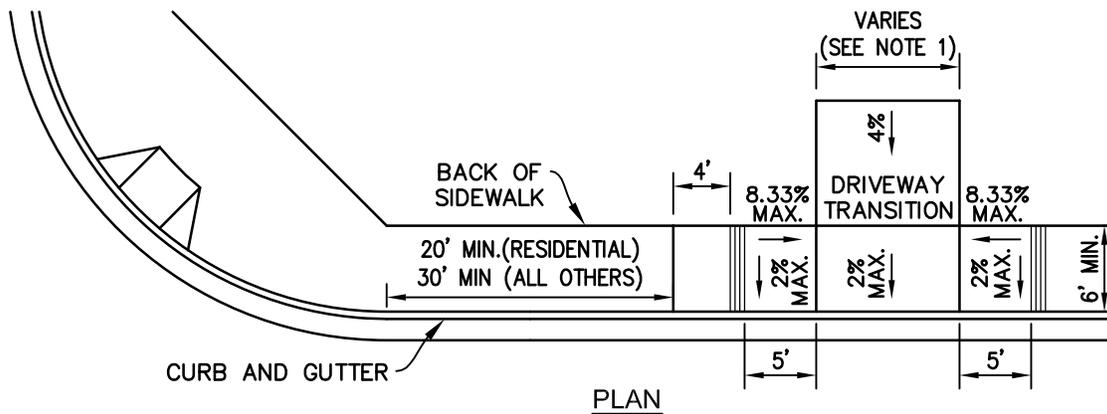
SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009



NOTES:

1. DRIVEWAY WIDTH AS PER SHEET 2.
2. WEAKENED PLANE JOINTS (WPJ) REQUIRED ON CENTERLINE FOR DRIVEWAYS 10' TO 19' WIDE. DRIVEWAYS SHALL HAVE TWO WPJ EVENLY SPACED AT 1/3 AND 2/3 POINTS. SEE STD 209 SHEET 2 FOR WPJ DETAIL.
3. ALL CONSTRUCTION AND MATERIALS IN CONFORMANCE WITH CITY STANDARDS.
4. THICKNESS OF APRONS SHALL BE 6". ON COMERCIAL DRIVEWAYS SIDEWALK SHALL BE REMOVED AND REPLACED WITH 6" CONCRETE.
5. ON RECONSTRUCTION PROJECTS THE SLOPE CAN BE 10%.
6. IF CURB AND GUTTER ARE POURED SEPARATE OF APRON THEN DOWELS ARE REQUIRED AT BACK OF CURB. 3" IN CURB AND 9" IN CENTER OF APRON.
7. PROVIDE TURN-AROUND IN ACCORDANCE WITH FIRE DEPARTMENT REQUIREMENTS.
8. BUILDING ADDRESS(ES) SHALL BE CAST IN FACE OF CURB (3" TALL DIGITS) IN ALL NEW AND RECONSTRUCTED RESIDENTIAL AND COMMERCIAL DRIVEWAYS.
9. THE SLOPE DIFFERENCE BETWEEN THE DRIVEWAY RAMPS AND SLOPE OF THE LINE BETWEEN FLOWLINE AND A POINT IN THE THE ROADWAY 5 FT FROM THE GUTTER FLOWLINE SHALL NOT EXCEED 15%.
10. REINFORCING STEEL REQUIRED IN CONCRETE: #4 @ 12" O.C. OR #5 @ 16" O.C. PLACE THROUGHOUT COMMERCIAL AND INDUSTRIAL DRIVEWAYS WITHIN THE RIGHT-OF-WAY.
11. WIDEN OR MEANDER SIDEWALK AT OBSTRUCTIONS (INCLUDING DRIVEWAYS) TO MAINTAIN 6' MIN. CLEARANCE.

SHEET 1 OF 2



DRIVEWAY DETAILS

STD. NO.
210

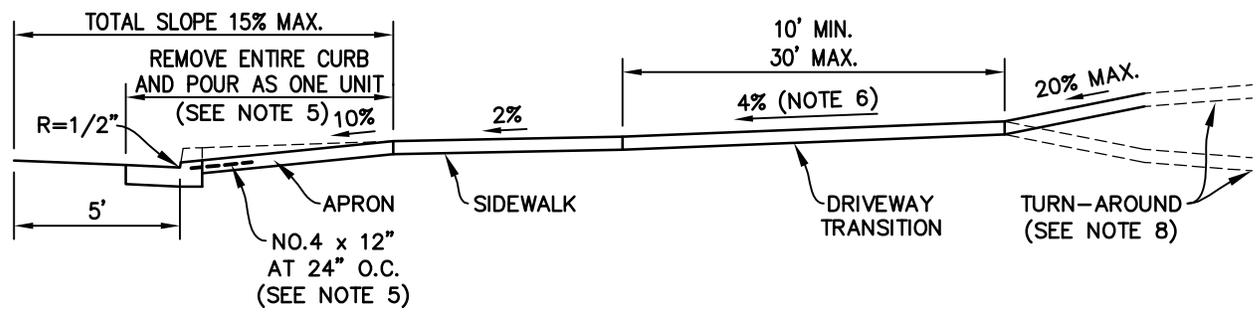
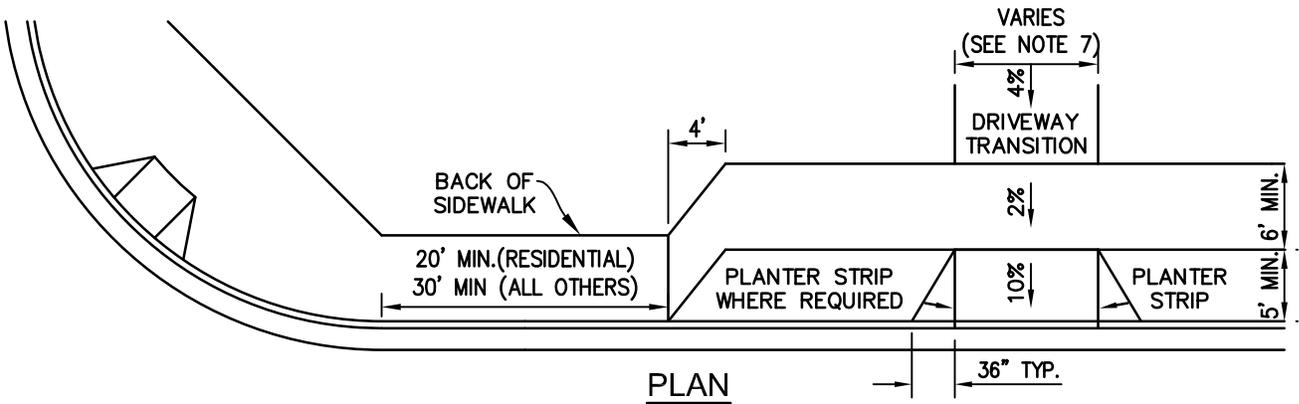
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DRAWN: CFB

CHK: MGK

APPVD:

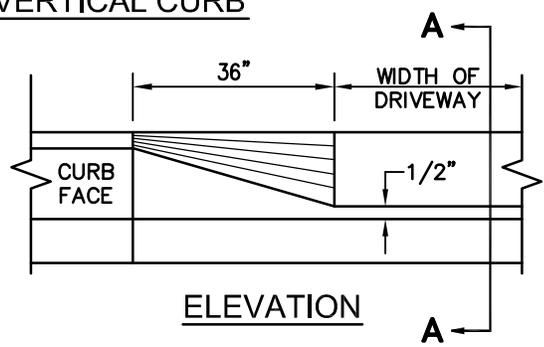
DATE: AUG 2009



SECTION A-A WITH VERTICAL CURB

NOTES:

1. WEAKENED PLANE JOINTS (WPJ) REQUIRED ON CENTERLINE FOR ALL DRIVEWAYS. DRIVEWAYS SHALL HAVE TWO WPJ EVENLY SPACED AT 1/3 AND 2/3 POINTS. SEE STD 209 SHEET 2 FOR WPJ DETAIL.
2. ALL CONSTRUCTION AND MATERIALS IN CONFORMANCE WITH CITY STANDARDS.
3. THICKNESS OF APRONS SHALL BE 6". ON COMMERCIAL DRIVEWAYS SIDEWALK SHALL BE REMOVED AND REPLACED WITH 6" CONCRETE.
4. WIDEN OR MEANDER SIDEWALK AT OBSTRUCTIONS (INCLUDING DRIVEWAYS) TO MAINTAIN 6' MIN. CLEARANCE.
5. IF CURB AND GUTTER ARE POURED SEPARATE OF APRON THEN DOWELS ARE REQUIRED AT BACK OF CURB. 3" IN CURB AND 9" IN CENTER OF APRON.
6. ON RECONSTRUCTION PROJECTS THE SLOPE CAN BE 10%.
7. DRIVEWAY WIDTHS SHALL BE AS FOLLOWS:



DRIVEWAY TYPE	MAX. WIDTH
RESIDENTIAL SINGLE	10'
RESIDENTIAL DOUBLE	19'
COMMERCIAL SINGLE	12'
COMMERCIAL DOUBLE	22'
COMMERCIAL DOUBLE WITH 5' MEDIAN	27'

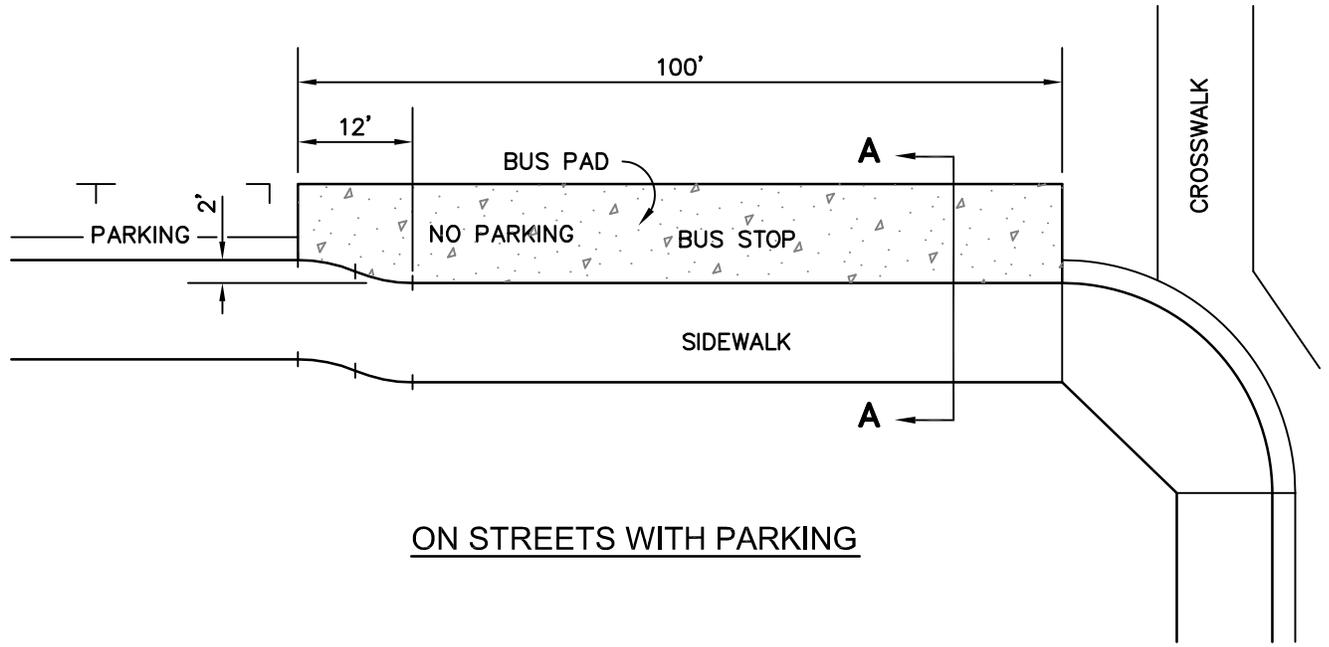
9. PROVIDE TURN-AROUND IN ACCORDANCE WITH FIRE DEPARTMENT REQUIREMENTS.



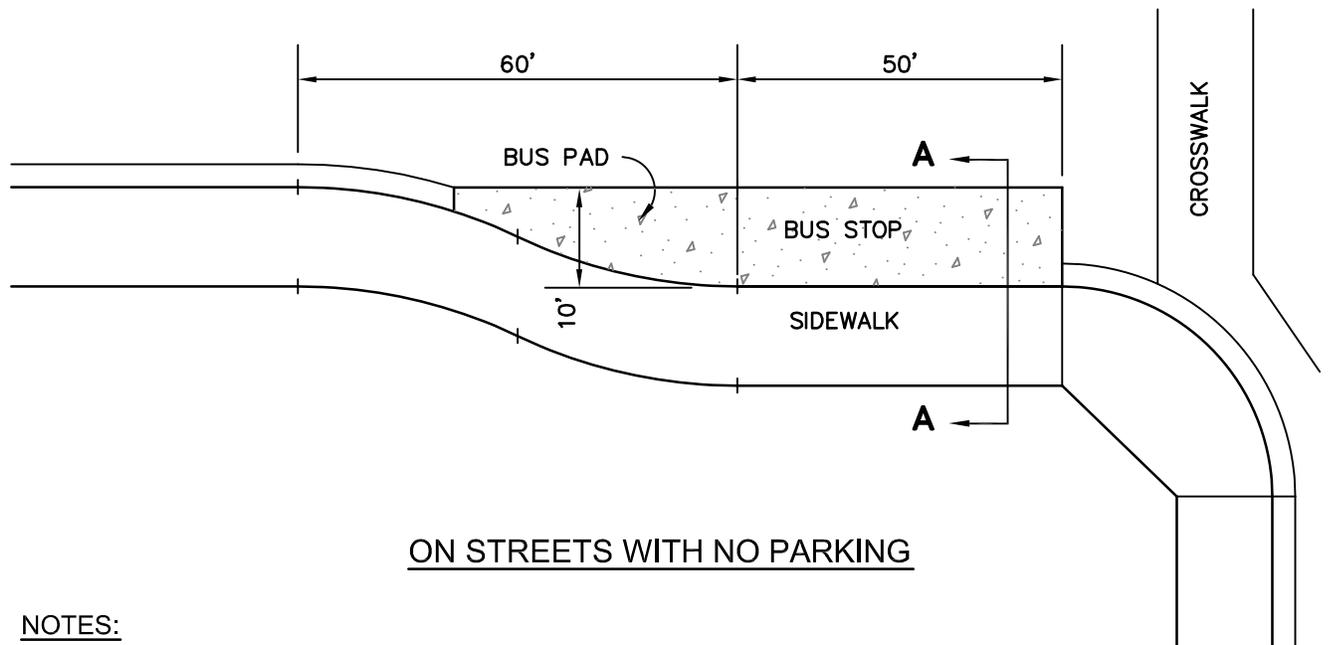
DRIVEWAY DETAILS

STD. NO.
210

Images: Willits Logo.ppt; Xrefs:
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ON STREETS WITH PARKING



ON STREETS WITH NO PARKING

NOTES:

1. SEE SECTION A-A, SHEET 4.
2. BUS BENCHES AND SHELTER SHALL BE LOCATED BEHIND THE SIDEWALK OR IN SUCH A MANNER THAT A MINIMUM 5' CLEAR SIDEWALK IS PROVIDED.
3. DESIGN SHALL CONFORM TO THESE REQUIREMENTS, EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.

SHEET 1 OF 4



**BUS STOP
 AT INTERSECTION**

STD. NO.
211

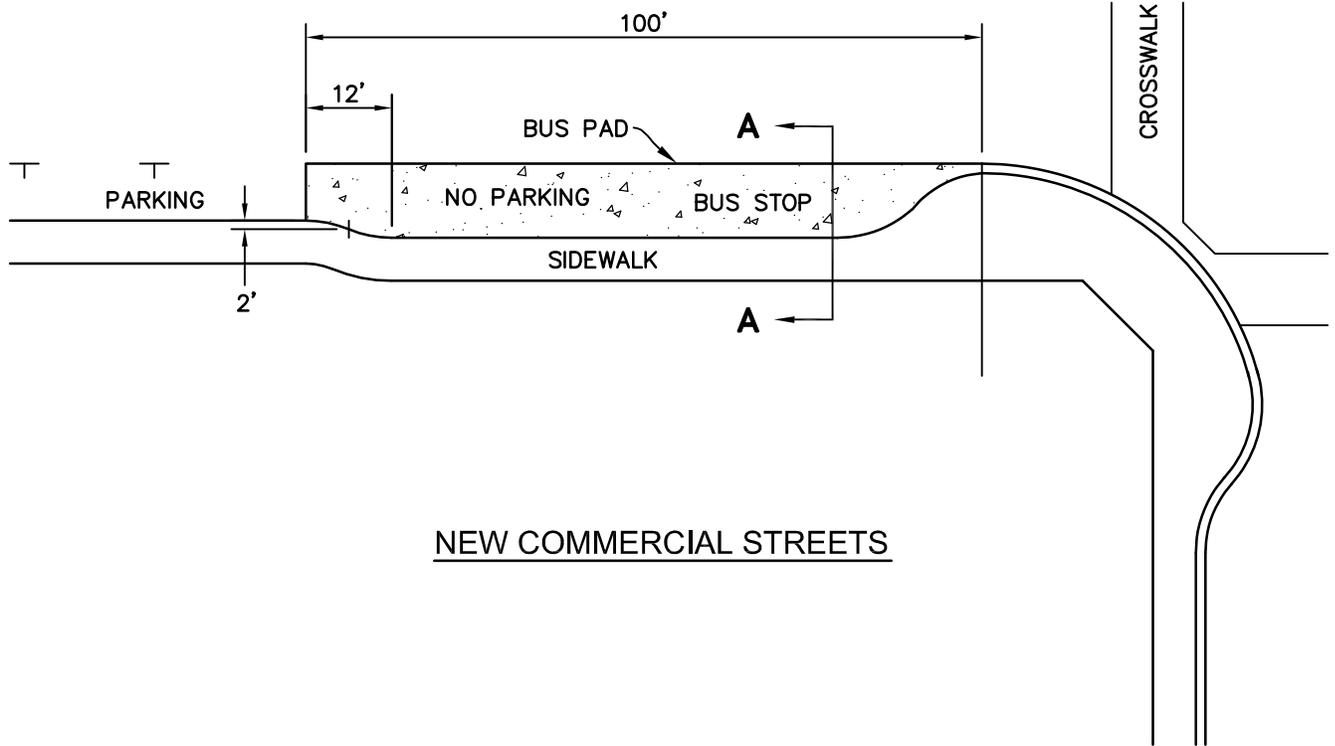
SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009



NEW COMMERCIAL STREETS

NOTES:

1. SEE SECTION A-A, SHEET 4.
2. BUS BENCHES AND SHELTER SHALL BE LOCATED BEHIND THE SIDEWALK OR IN SUCH A MANNER THAT A MINIMUM 5' CLEAR SIDEWALK IS PROVIDED.
3. DESIGN SHALL CONFORM TO THESE REQUIREMENTS, EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.

SHEET 2 OF 4



**BUS STOP
AT INTERSECTION**

STD. NO.
211

SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009



SCALE: NONE

DRAWN: CFB

CHK: MGK

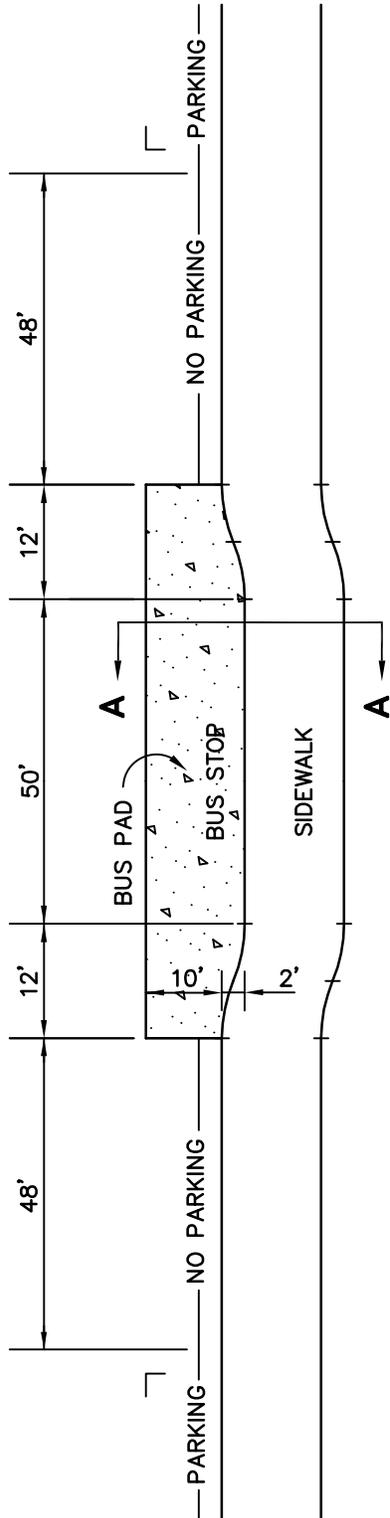
APPVD:

DATE: AUG 2009

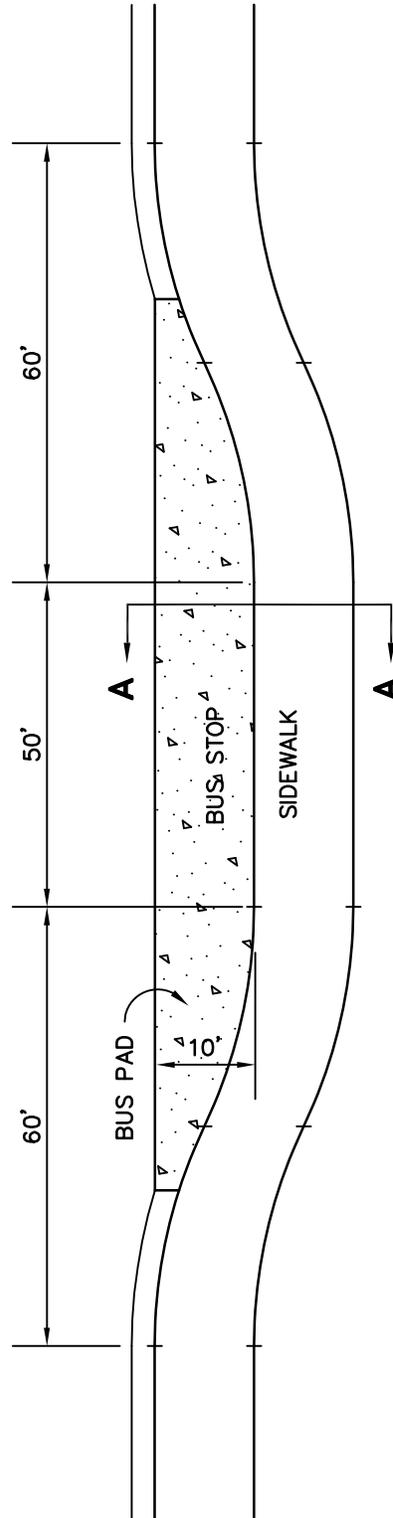
MID BLOCK BUS STOP

STD. NO.
211

SHEET 3 OF 4



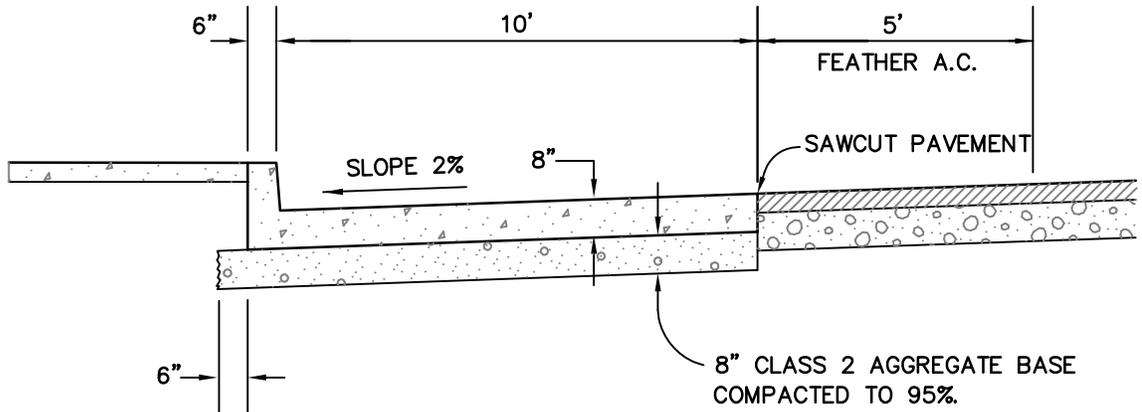
ON STREETS WITH PARKING



ON STREETS WITH NO PARKING

NOTES:

1. SEE SECTION A-A, SHEET 3.
2. BUS BENCHES AND SHELTER SHALL BE LOCATED BEHIND THE SIDEWALK OR IN SUCH A MANNER THAT A MINIMUM 5' CLEAR SIDEWALK IS PROVIDED.
3. DESIGN SHALL CONFORM TO THESE REQUIREMENTS, EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.



SECTION A-A

NOTES:

1. EXPANSION JOINTS & SCORE MARKS TO MATCH EXISTING CURB, GUTTER, & SIDEWALK.
2. USE CLASS "A" P.C.C.
3. CONSTRUCT SUBDRAINS WHEN REQUIRED BY CITY ENGINEER.
4. REINFORCING STEEL REQUIRED IN CONC. #4 @ 12" O.C. EACH WAY, OR #5 @ 16" O.C. EACH WAY.
5. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.

SHEET 4 OF 4



CONCRETE BUS PAD DETAIL

STD. NO.
211

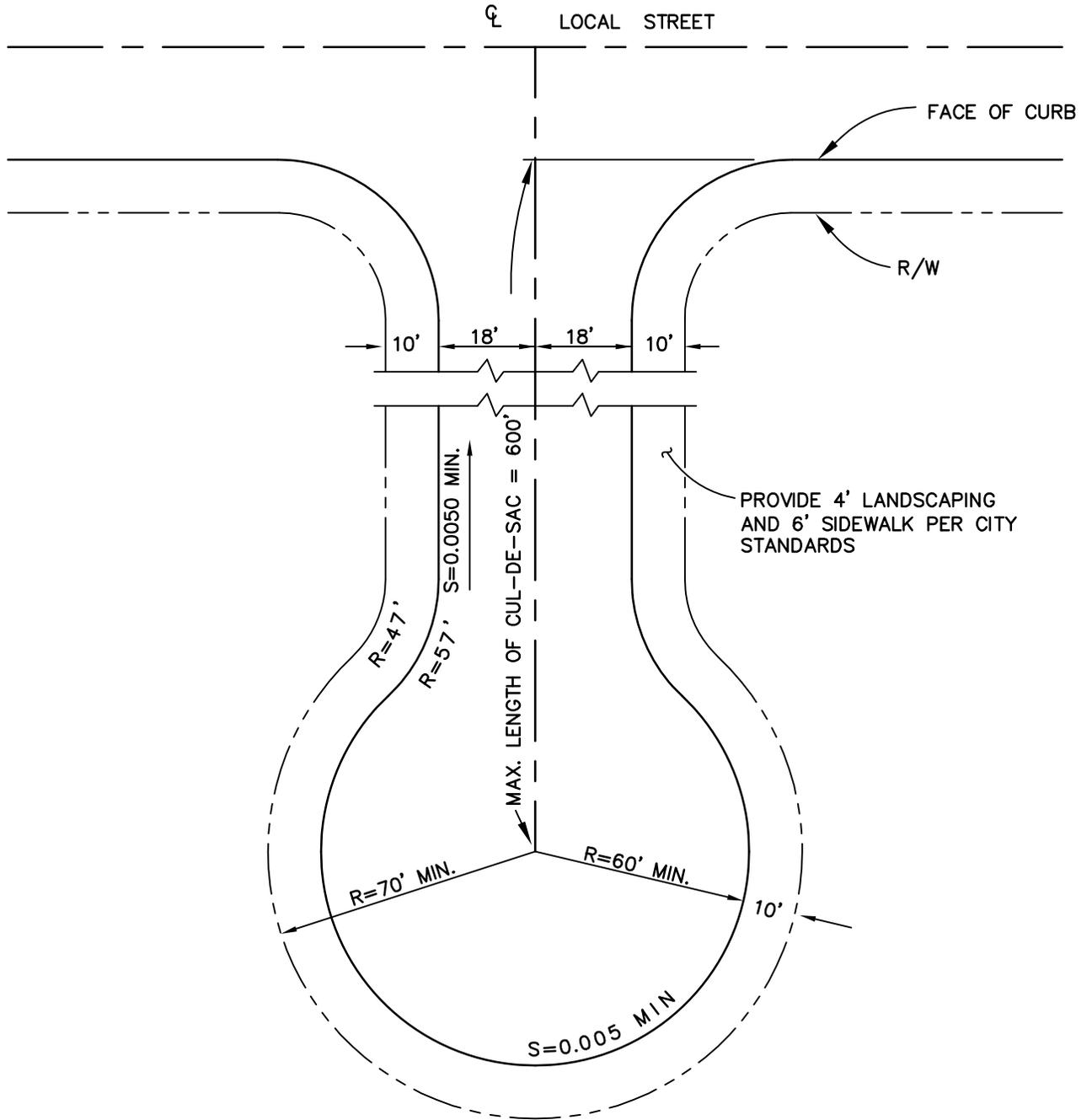
SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009



CROSS SLOPE IN BULB AREA SHALL BE MIN 2%.

SHEET 1 OF 2



RESIDENTIAL CUL-DE-SAC

STD. NO.
212

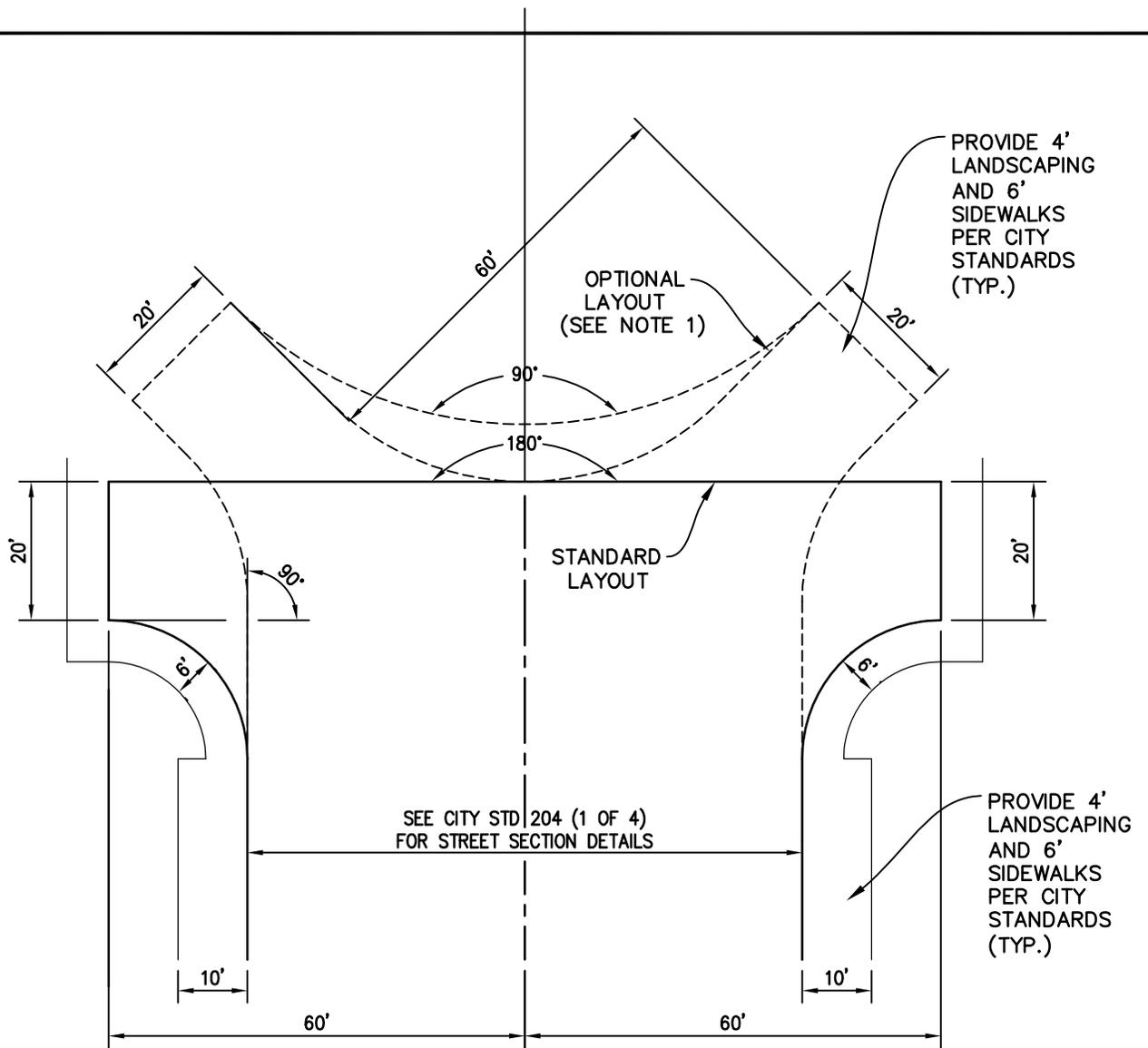
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DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009



NOTES:

1. FOR RESIDENTIAL AND PRIVATE STREETS. SEE CITY STD. 204 (1 OF 4) FOR STREET SECTION DETAILS.
2. TO BE USED ONLY WHEN SPECIFICALLY AUTHORIZED BY THE CITY ENGINEER AND FIRE PROTECTION DISTRICT.
3. ALL RADII 20' EXCEPT AS NOTED.
4. SINGLE-SIDED TURNAROUNDS OF EQUIVALENT DIMENSIONS MAY BE USED.

SHEET 2 OF 2



HAMMERHEAD TURN-AROUND

STD. NO.
212

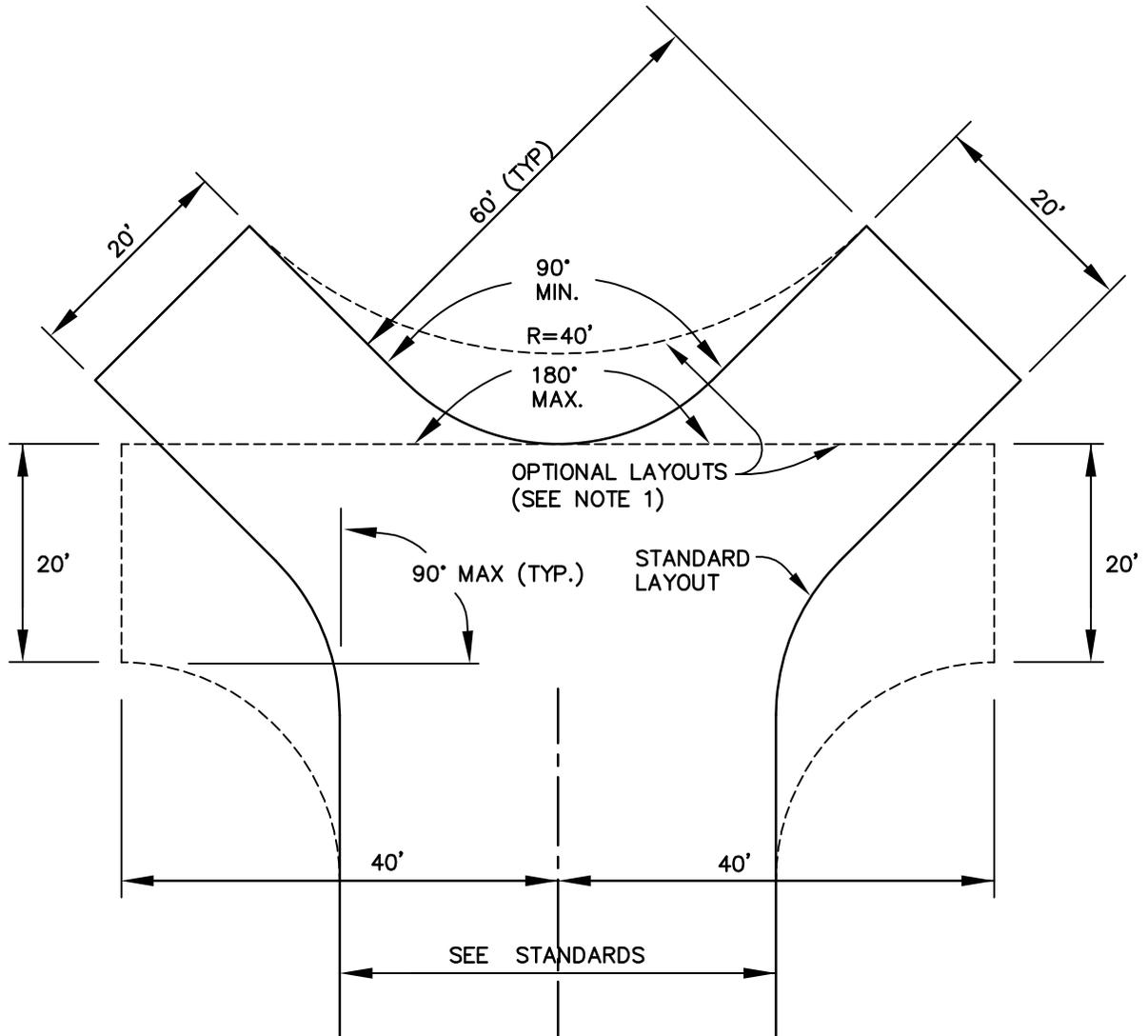
SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009



NOTES:

1. TO BE USED ONLY WHEN SPECIFICALLY AUTHORIZED BY THE DIRECTOR OF PUBLIC WORKS AND FIRE MARSHALL.
2. ALL RADII 20', EXCEPT AS NOTED.
3. SINGLE SIDED TURNAROUNDS OF EQUIVELENT DIMENSIONS MAY BE USED.



**HAMMERHEAD TURN AROUND
RESIDENTIAL PRIVATE STREETS
AND ACCESS WAYS**

STD. NO.

213

SCALE: NONE

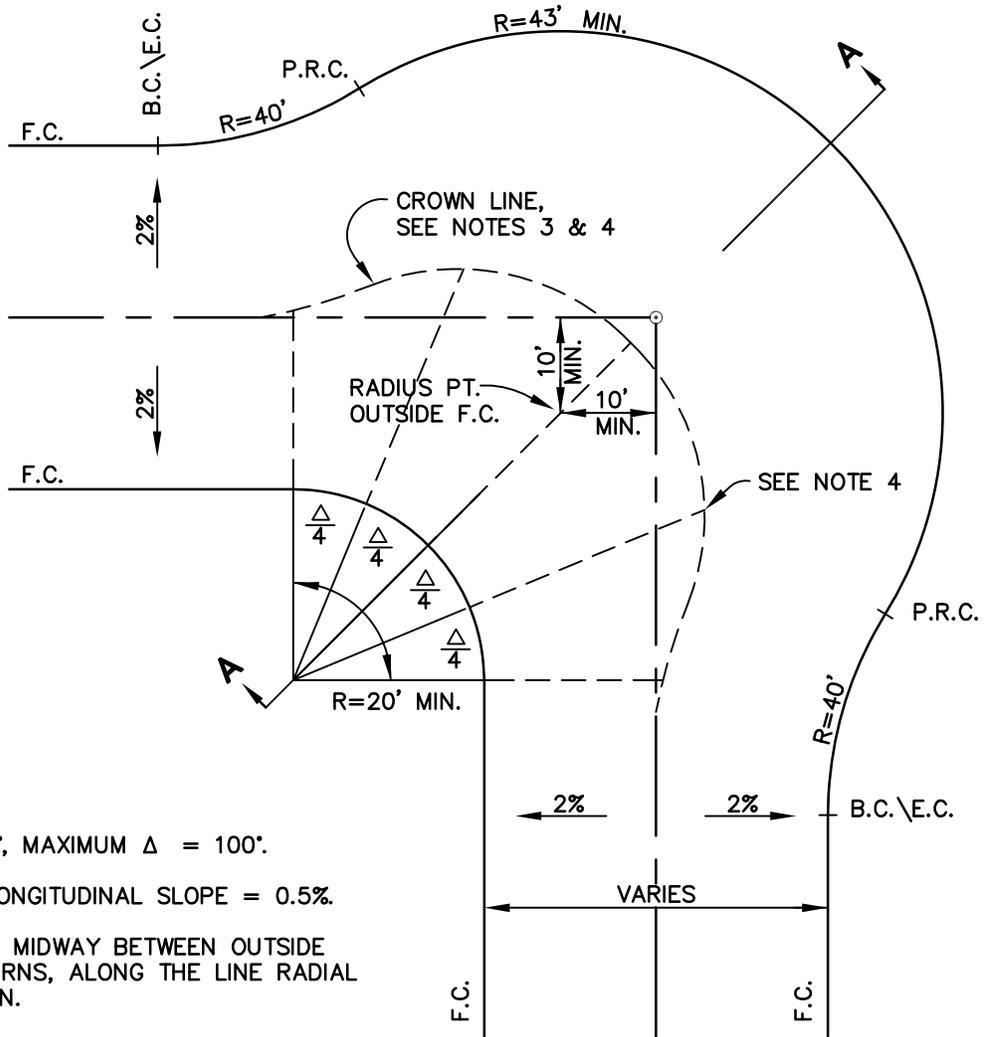
DRAWN: CFB

CHK: MGK

APPVD:

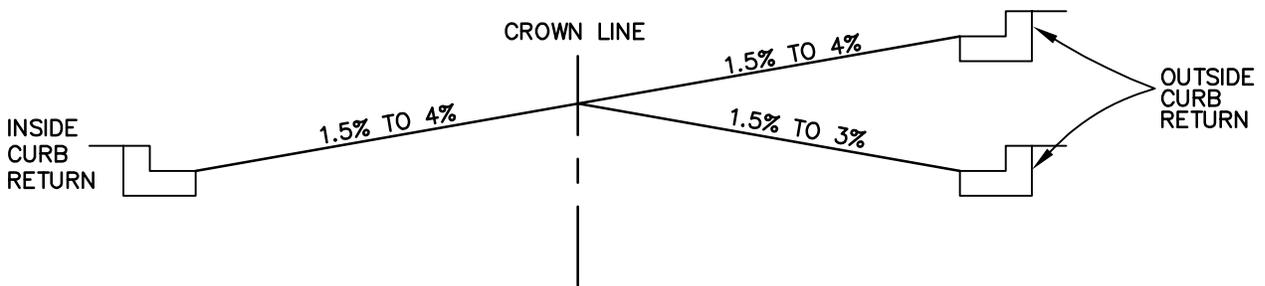
DATE: AUG 2009

Images: Willits Logo.ppt; Xrefs: Path: C:\DOCUME~1\cbach\LOCALS~1\Temp\AcPublish_3380\Willits211-220.dwg Layout Name: 214 Plot Date: Jul 10, 2009 at 13:30



NOTES:

1. MINIMUM $\Delta = 60^\circ$, MAXIMUM $\Delta = 100^\circ$.
2. MINIMUM CURB LONGITUDINAL SLOPE = 0.5%.
3. CROWN LINE LIES MIDWAY BETWEEN OUTSIDE AND INSIDE RETURNS, ALONG THE LINE RADIAL TO INSIDE RETURN.
4. CROWN LINE ELEVATION TO BE SHOWN ON THE PLANS AT $\Delta/4$ POINTS.
5. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.



SECTION A-A

MAXIMUM & MINIMUM CROSS SLOPES



**STANDARD STREET KNUCKLE
RESIDENTIAL AND MINOR STREETS**

STD. NO.
214

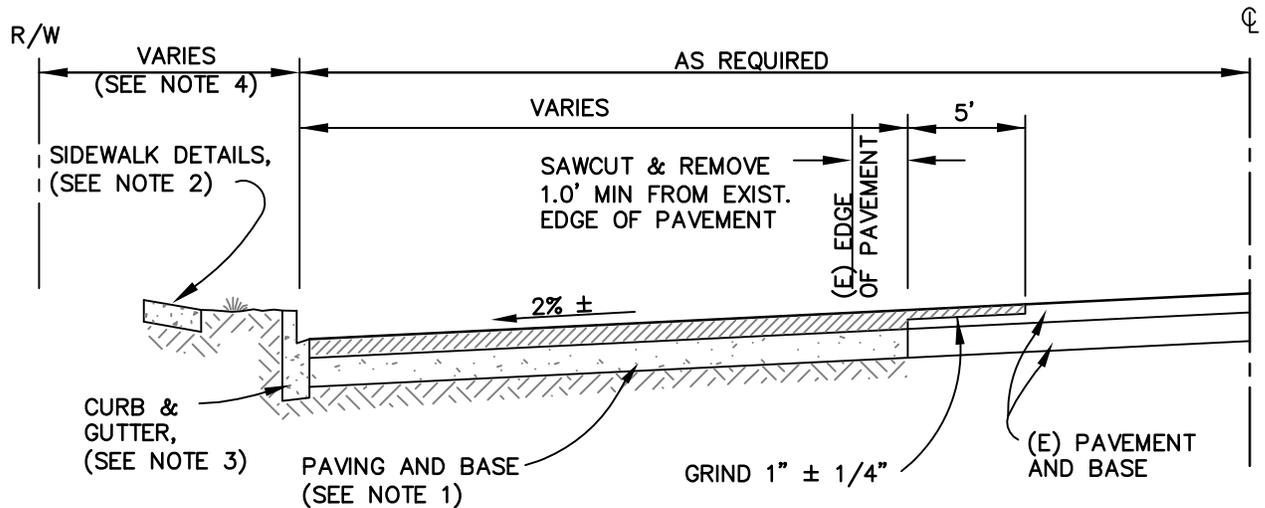
SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009



NOTES:

1. PAVING AND BASE THICKNESS TO BE DETERMINED USING CITY PAVEMENT DESIGN STANDARDS. MINIMUM PAVEMENT THICKNESS TO BE 0.25'.
2. SEE STD. 205 FOR SIDWALK DETAILS.
3. SEE STD. 205 FOR CURB & GUTTER DETAILS.
4. DISTANCE BETWEEN FACE OF CURB AND RIGHT-OF-WAY TO BE PER STDS. 203 AND 204.



STREET WIDENING/PAVEOUT DETAIL

STD. NO.
215

SCALE: NONE

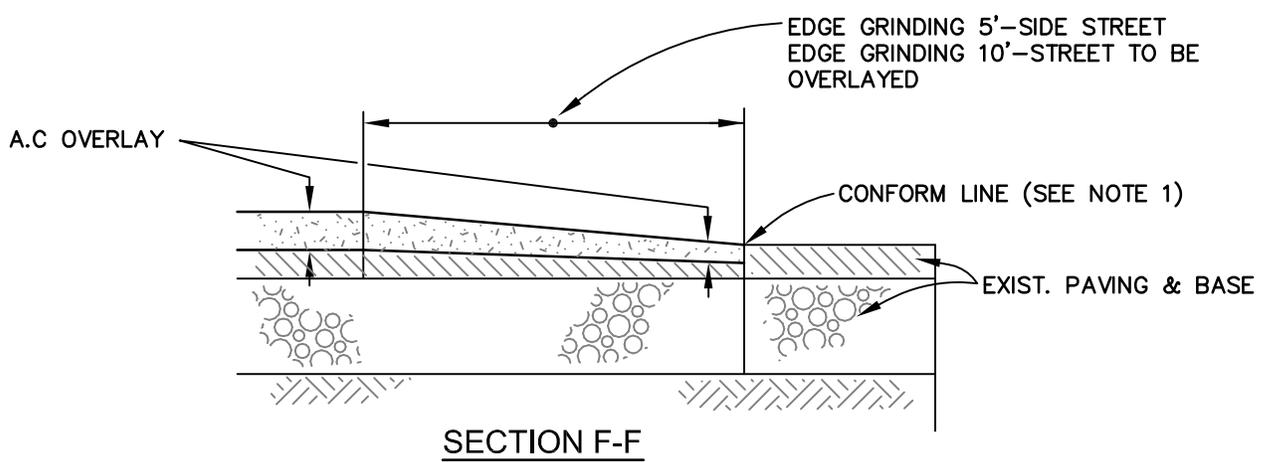
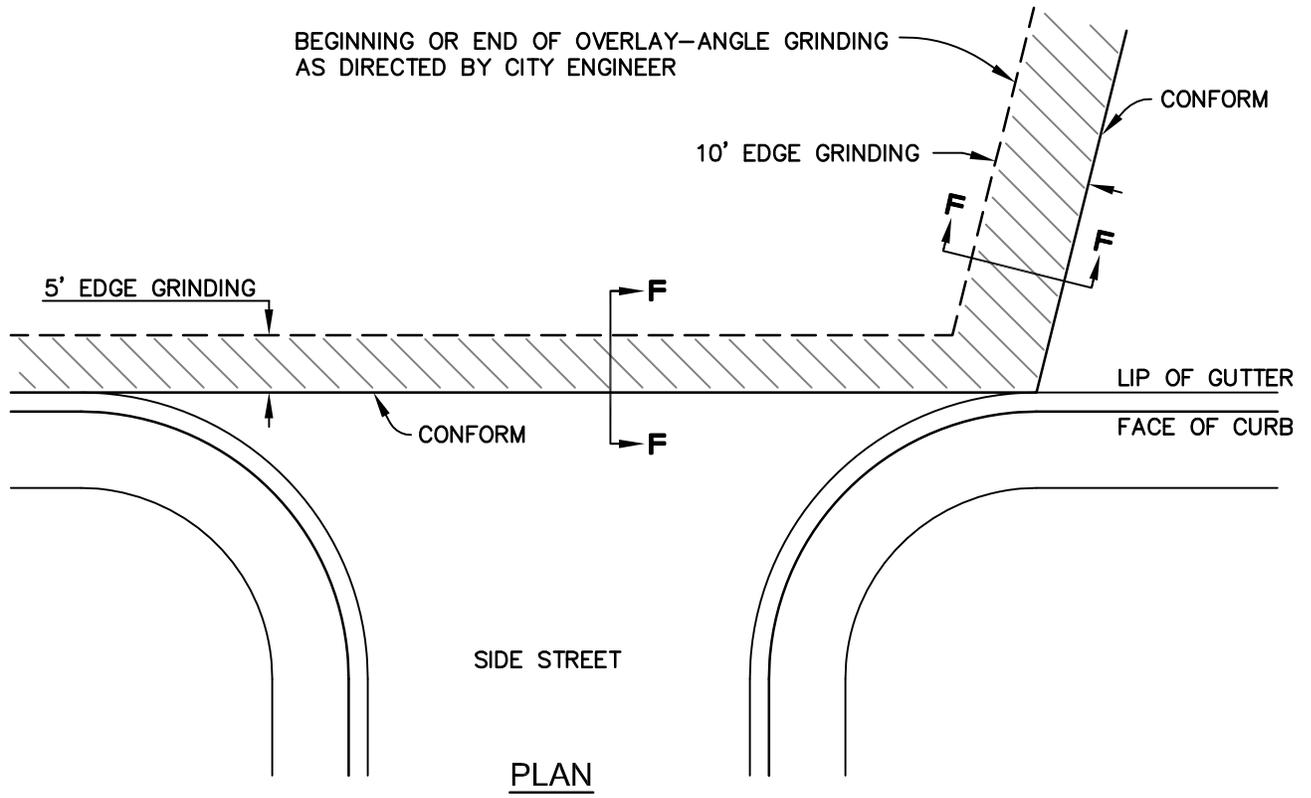
DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009

Images: Willits Logo.ppt; Xrefs: Path: C:\DOCUME~1\cbach\LOCALS~1\Temp\AcPublish_3380\Willits211-220.dwg Layout Name: 216 Plot Date: Jul 10, 2009 at 13:30



NOTES:

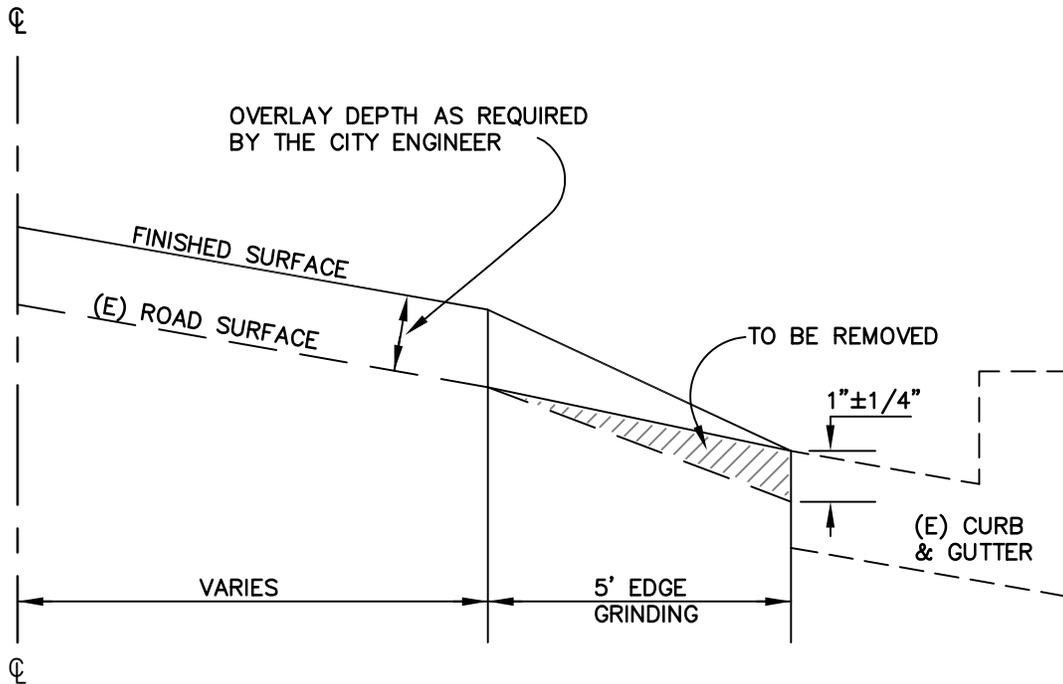
1. EDGE GRINDING SHALL BE 1"±1/4".
2. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.



**SIDE STREET AND
END OF OVERLAY CONFORM**

STD. NO.
216

SCALE: NONE	DRAWN: CFB	CHK: MHK	APPVD:	DATE: AUG 2009
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NOTES:

- DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.



**EDGE GRINDING AT LIP OF GUTTER
FOR OVERLAY**

STD. NO.
217

SCALE: NONE

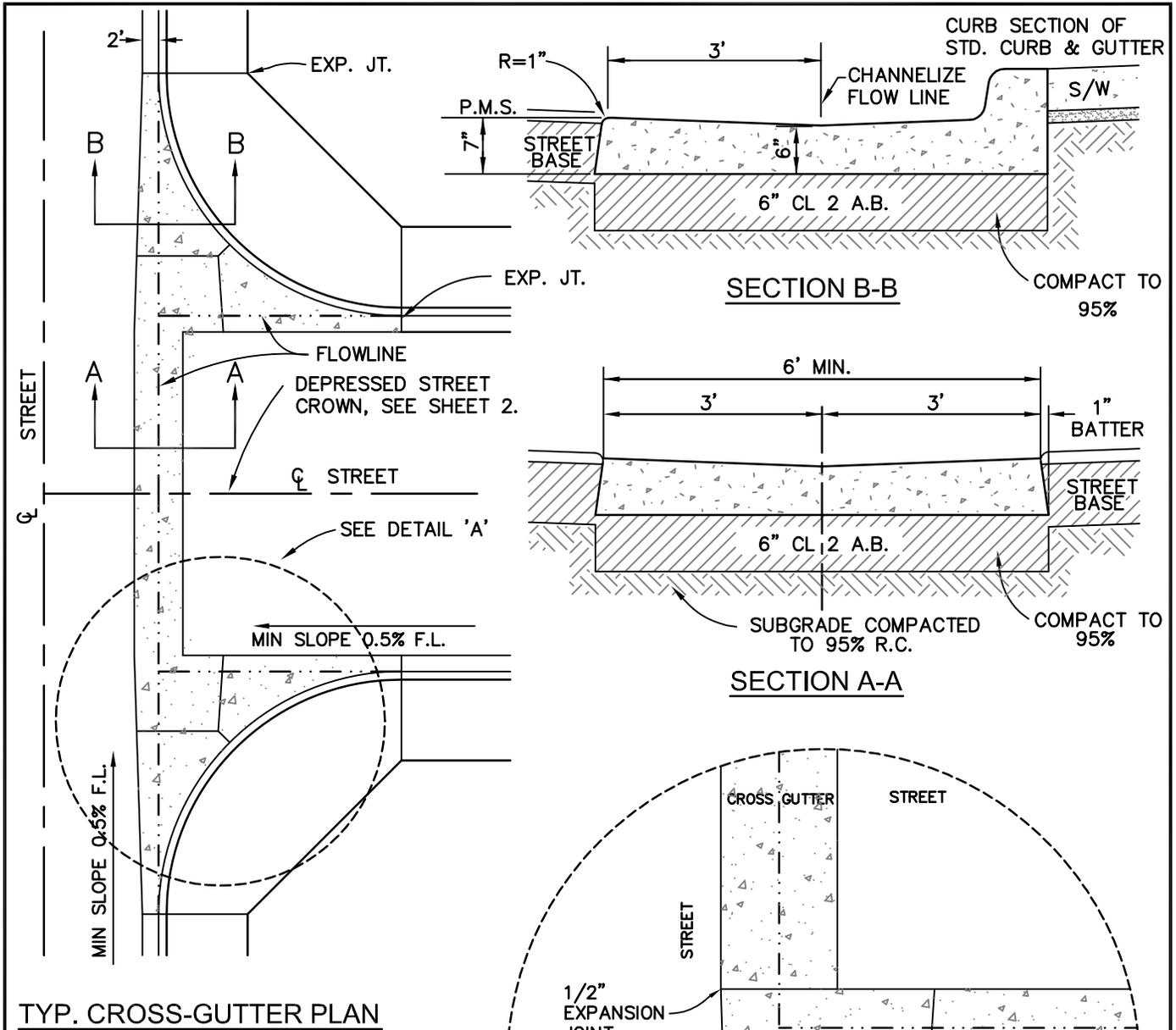
DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009

Images: Willits Logo.ppt; Xrefs: Path: C:\DOCUME~1\cbach\LOCALS~1\Temp\AcPublish_3380\Willits211-220.dwg Layout Name: 218 (1 of 2) Plot Date: Jul 10, 2009 at 13:30



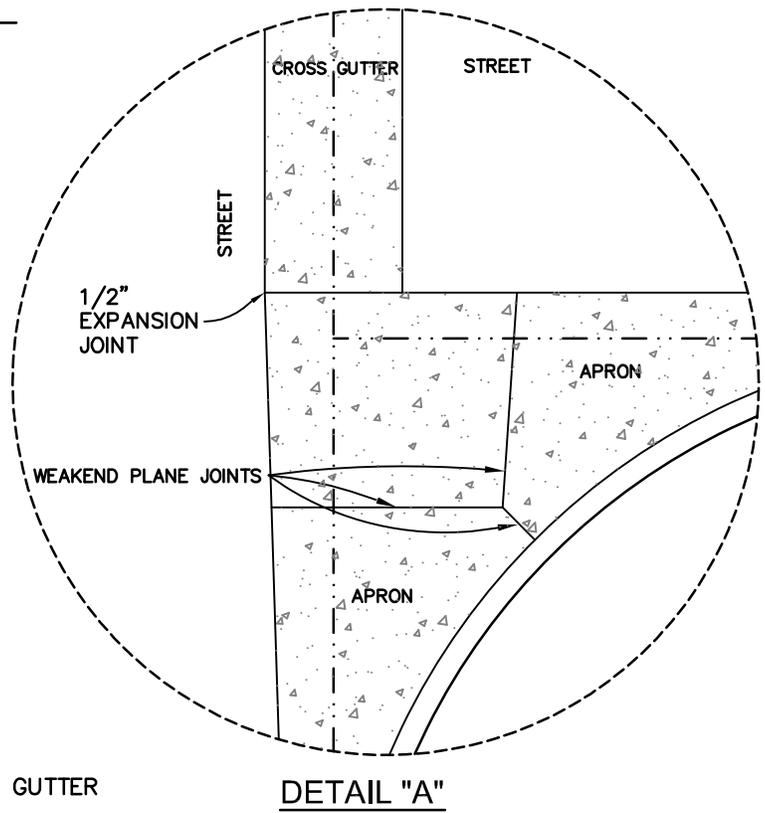
TYP. CROSS-GUTTER PLAN

NOTE:

ALL CONCRETE TO BE CLASS "A"
(6 SACK/CUBIC YARD)

LEGEND:

- EXP. JOINT 1/2" EXPANSION JOINT
- AREA OF APRON & CROSS GUTTER



DETAIL "A"
TYPICAL BOTH SIDES



STANDARD P.C.C. CROSS GUTTER

STD. NO.
218

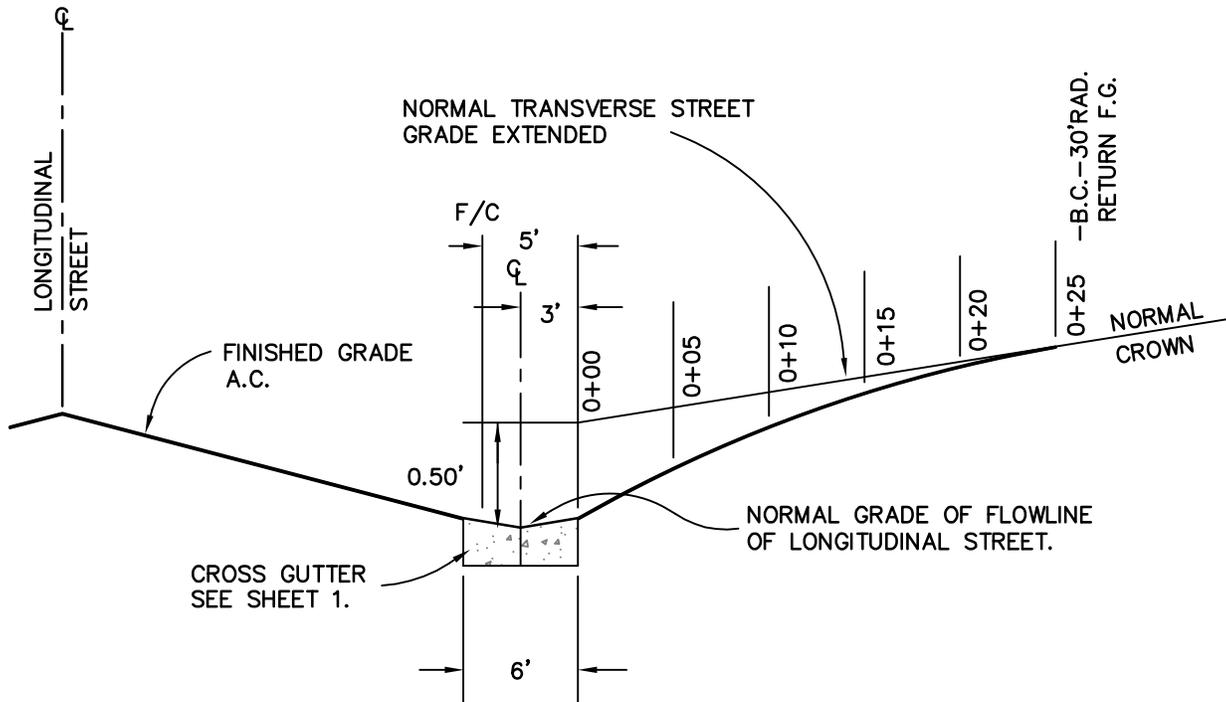
SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009



PROFILE ALONG Q TRANSVERSE STREET

NOTES:

ORDINATES, IN DECIMAL PARTS OF A FOOT, ESTABLISH THE DISTANCE OF THE PAVEMENT SURFACE OF THE TRANSVERSE STREET BELOW THE NORMAL STREET GRADE, FROM STA 0+00 TO 0+25.

A.C. SURFACING						
STA	0+00	0+05	0+10	0+15	0+20	0+25
ORDIN	0.42	0.31	0.20	0.09	0.02	0.00

SHEET 2 OF 2

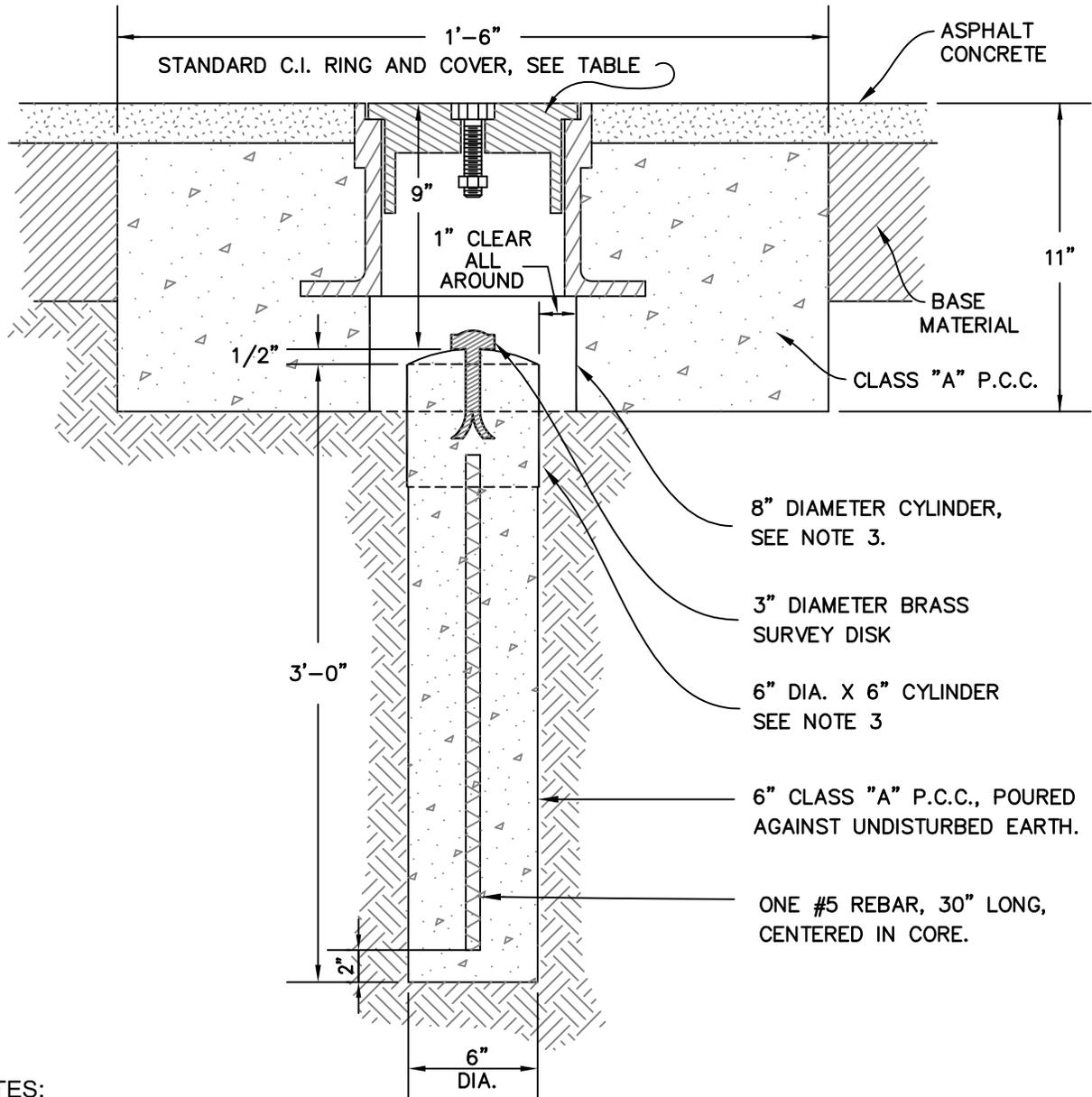


**STANDARD STREET PROFILE
AT P.C.C. CROSS GUTTER**

STD. NO.
218

SCALE: NONE | DRAWN: CFB | CHK: MGK | APPVD: | DATE: AUG 2009

Images: Willits Logo.ppt; Xrefs: Path: C:\DOCUME~1\cbach\LOCALS~1\Temp\AcPublish_3380\Willits211-220.dwg Layout Name: 219 Plot Date: Jul 10, 2009 at 13:30



NOTES:

1. SURVEYOR OR ENGINEER SETTING THE MONUMENT SHALL INDICATE EXACT POINT BY MAKING A CROSS ON THE CAP AND SHALL STAMP YEAR SET AND HIS/HER LICENSE TYPE AND NUMBER.
2. THE DEPTH OF THE MONUMENT POST SHALL BE LENGTHENED OR SHORTENED AS DICTATED BY THE GROUND CONDITIONS OR AS APPROVED BY THE CITY ENGINEER. IN SOFT GROUND OR FILL ARE AS THE MONUMENT POST SHALL BE LENGTHENED TO BED IT ON A STABLE BASE.
3. CYLINDER MATERIAL SHALL BE THINWALL A.B.S. OR P.V.C. PLASTIC PIPE.
4. TOP OF MONUMENT CORE SHALL BE FINISHED SMOOTH AND ROUNDED WITH NO CONCRETE ABOVE EDGE OF BRASS SURVEY MARKER.
5. ASTM CLASS 30 IRON CASTINGS DIPPED IN ASPHALT PAINT

APPROVED MONUMENT COVERS:

1. SOUTH BAY FOUNDRY SBF 1201
2. "VISCO NO. 129"
3. "AMERICAN BRASS AND IRON FOUNDRY MODEL 5020-21"
4. ARTMARK PROD. CO. APC-51
5. SANTA ROSA CAST PRODUCTS SP-51



CITY MONUMENT

STD. NO.
219

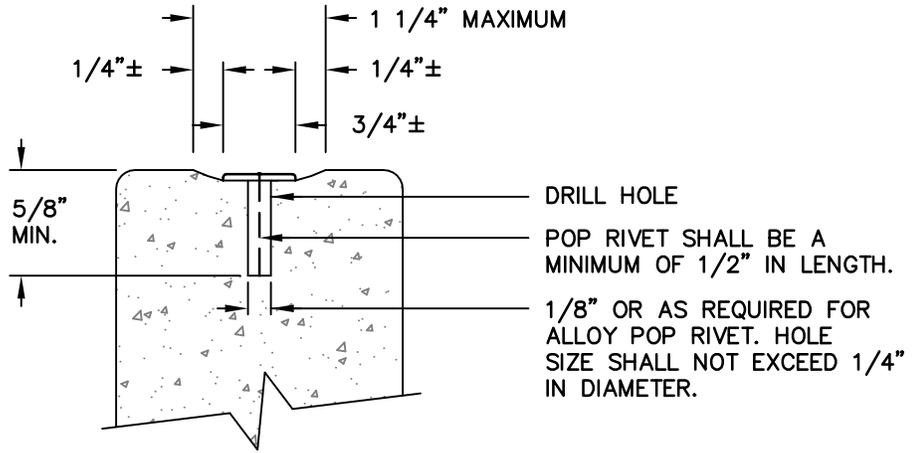
SCALE: NONE

DRAWN: CFB

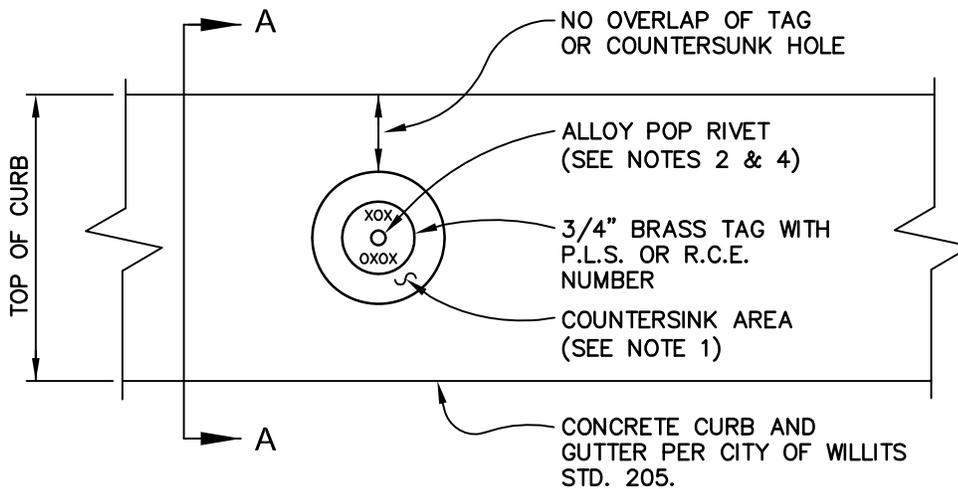
CHK: MGK

APPVD:

DATE: AUG 2009



SECTION A-A



NOTES:

1. BRASS TAG SHALL BE COUNTERSUNK SO THAT TOP OF TAG AND RIVET IS AT OR BELOW THE SURFACE OF THE TOP OF CURB. BRASS TAG SHALL BE SET TO ENSURE A PERMANENTLY PLACED MONUMENT. EPOXY RESIN MAY BE USED IN ADDITION TO ABOVE METHODS.
2. DRILL HOLE SHALL BE DRILLED ONLY. AN ALLOY POP RIVET SHALL BE USED TO ATTACH BRASS TAG TO TOP OF CURB.
3. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER.
4. IMPACT FASTENERS ARE NOT ALLOWED.

Images: Willits Logo.ppt; Xrefs: Path: C:\DOCUME~1\cbach\LOCALS~1\Temp\AcPublish_3380\Willits211-220.dwg Layout Name: 220 Plot Date: Jul 10, 2009 at 13:30



**LOT CORNER REFERENCE MONUMENT
AT STREET FRONTAGE**

STD. NO.
220

SCALE: NONE

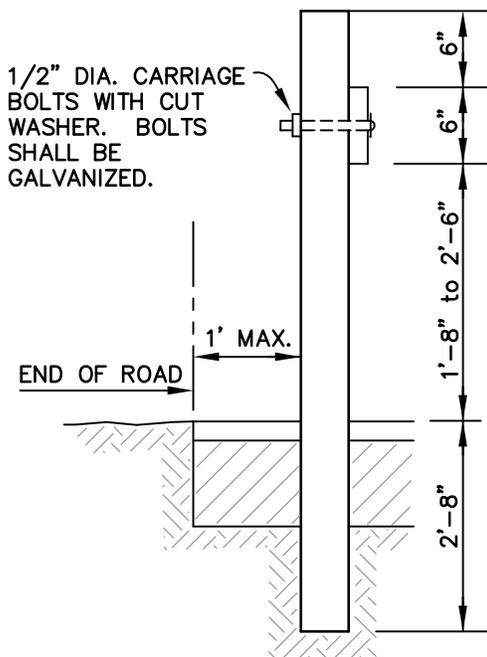
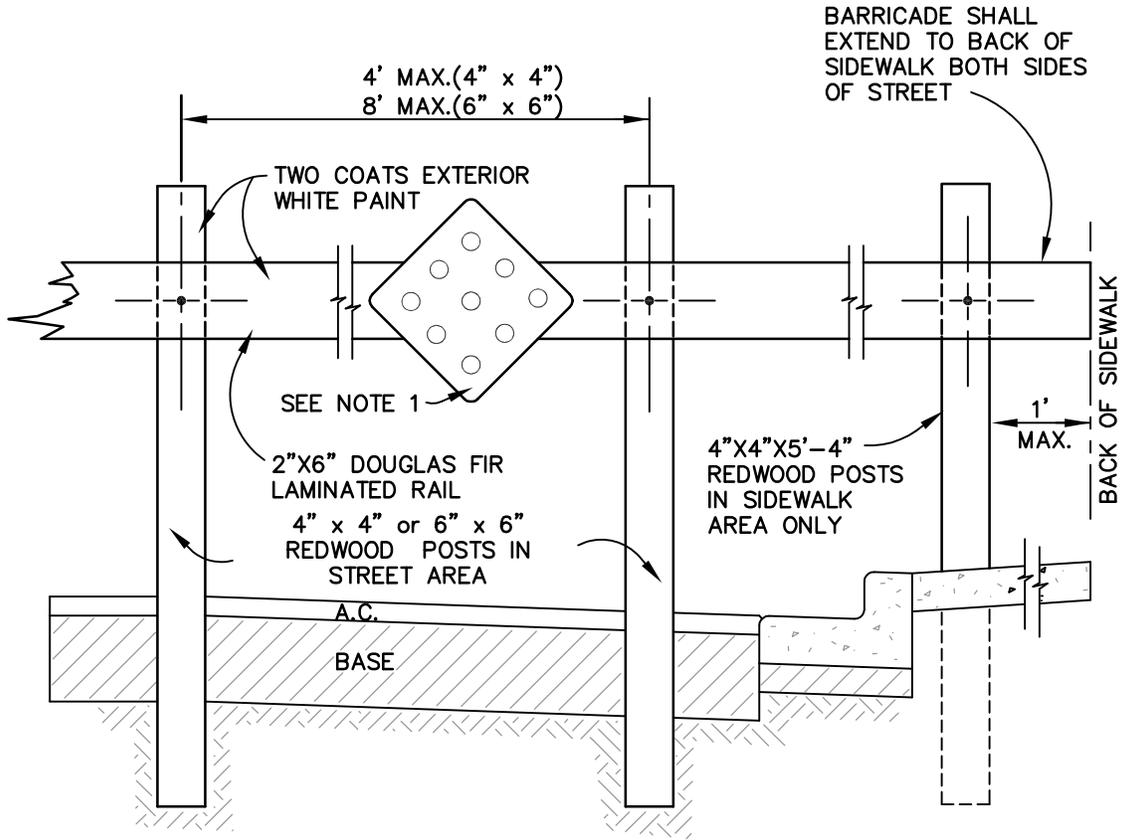
DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009

Images: Willits Logo.jpg Xrefs: Path: \\srosrv1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001 Willits City Standards\CAD 01064-09-001.dwg\Willits21-224.dwg Layout Name: 221 Plot Date: Jul 10, 2009 at 13:32



NOTES:

1. INSTALL 18" X 18" ALUMINUM TYPE N-2 REFLECTOR, NO MORE THAN 8' O.C., MINIMUM 3
2. SIDEWALKS ONLY - INSTALL 4" YELLOW REFLECTORS.



STANDARD BARRICADE

STD. NO.
221

SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009

NOTES:

1. WHERE EXISTING STREET IS PCC OVERLAID WITH AC, THE PCC SECTION REMOVED BY TRENCHING SHALL NOT BE REPLACED.
2. FINAL TRENCH PAVING IS REQUIRED TO BE EXPANDED TO A PAINTED LANE STRIPE, EXISTING PAVEMENT PATCH, THE LIP OF GUTTER OR EDGE OF PAVEMENT WHERE SUCH STREET FEATURE IS WITHIN 3 FEET OF THE FINAL SAWCUT.
3. PERMANENT PAVING MUST BE COMPLETED WITHIN 30 DAYS. AC OR CUTBACK (1" THICK) MAY BE PLACED AS A TEMPORARY SURFACE IN ROADWAY AREAS AND SHALL BE MAINTAINED UNTIL PERMANENT PAVING IS COMPLETED. WHERE WARRANTED AND AT THE DISCRETION OF THE CITY ENGINEER, TRENCH PLATES MAY BE USED FOR UP TO 2 WEEKS. TRENCH PLATES SHALL HAVE A SKID RESISTANT SURFACE, SECURED WITH 24" WIDE COLLAR OF CURBACK AROUND ALL SIDES OF PLATE, AND TAPERED TO PROVIDE SMOOTH TRANSITIONS.
4. A TACK COAT OF ASPHALTIC EMULSION OR PAVING GRADE ASPHALT SHALL BE APPLIED TO EXISTING A.C. PAVEMENT AT ALL CONTACT SURFACES PRIOR TO PERMANENT A.C. PAVING PER SECTION 22-7 OF STANDARD SPECIFICATIONS.
5. UNLESS OTHERWISE SPECIFIED, PERMANENT PAVEMENT SHALL CONFORM IN QUALITY AND THICKNESS TO THE TYPE OF PAVEMENT REMOVED, BUT IN NO CASE SHALL BE LESS THAN FOUR INCHES (4") OF ASPHALTIC CONCRETE ON TWELVE INCHES (12") OF AGGREGATE BASE CLASS 2.
6. EXISTING PAVEMENT SHALL BE SAWCUT AND REMOVED IN SUCH A MANNER AS NOT TO TEAR, BULGE, OR DISPLACE ADJACENT PAVEMENT. EDGES SHALL BE CLEAN AND VERTICAL WHEN PRACTICAL. ALL CUTS SHALL BE PARALLEL OR PERPENDICULAR TO THE STREET CENTERLINE.
7. R.C. – RELATIVE COMPACTION AS DETERMINED BY ASTM DESIGNATION D 2922-81 AND CITY STANDARDS.
8. NO SOLID BLOCKING PERMISSIBLE BENEATH PIPE.
9. JETTING BACKFILL IS NOT PERMITTED.
10. ROCKS EXCEEDING 6" SHALL NOT BE PERMITTED WITHIN THE TRENCH SECTION.
11. THE MINIMUM EQUIPMENT REQUIRED FOR COMPACTION OF NATIVE BACKFILL MATERIAL SHALL CONSIST OF A SHEEPSFOOT VIBRATORY ROLLER WITH A MINIMUM DRUM WIDTH OF 48", A MINIMUM GROSS WEIGHT OF 4600 LBS, OR MUST MEET APPROVAL OF THE CITY ENGINEER.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE PRIVATE SOILS ENGINEER AND THE CITY INSPECTOR 48 HOURS PRIOR TO EXCAVATION.
13. THE PRIVATE SOILS ENGINEER SHALL PROVIDE TESTING AND OBSERVATIONS ON A FULLTIME BASIS DURING ALL NATIVE BACKFILLING OPERATIONS. THE PRIVATE SOILS ENGINEER IS RESPONSIBLE FOR THE VERIFICATION OF ALL NATIVE BACKFILL WORK INCLUDING COMPACTION AND UNIFORM MOISTURE CONDITIONING, AND THAT MOISTURE CONTENT IS ABOVE OPTIMUM MOISTURE TO THE EXTENT APPROPRIATE FOR THE NATIVE MATERIAL BEING USED.
14. STREETS WHERE NATIVE TRENCH BACKFILL IS USED, TREATED (LIME, CEMENT, FLYASH, ETC.) SUBGRADE SHALL NOT BE USED AS PART OF THE STRUCTURAL SECTION.

TRENCH WIDTH FOR HDPE PIPE	
PIPE SIZE*	TRENCH WIDTH (MIN.)
15"	36"
18"	48"
24"	54"
30"	60"
36"	72"

PIPE MUST BE CENTERED IN THE TRENCH.
*INSIDE DIAMETER

TABLE 1			
NOMINAL PIPE SIZE	MINIMUM DIMENSIONS		
	A	B	C
≥12"	6"	3"	6"
>12"-18"	9"	6"	8"
>18"-24"	9"	6"	8"
>24"	12"	6"	12"

SHEET 1 OF 2

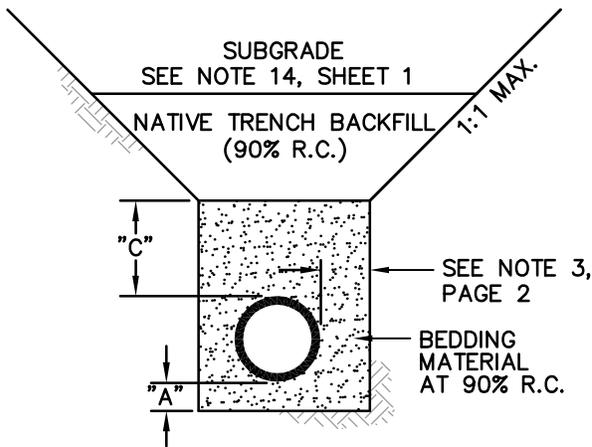


STANDARD TRENCH NOTES

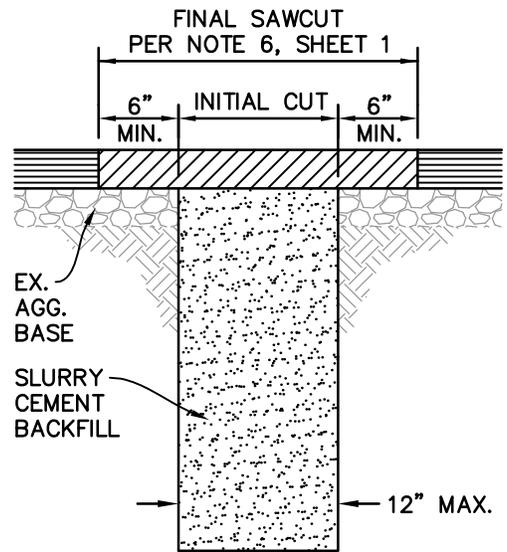
STD. NO.
222

SCALE: NONE | DRAWN: CFB | CHK: MGK | APPVD: | DATE: AUG 2009

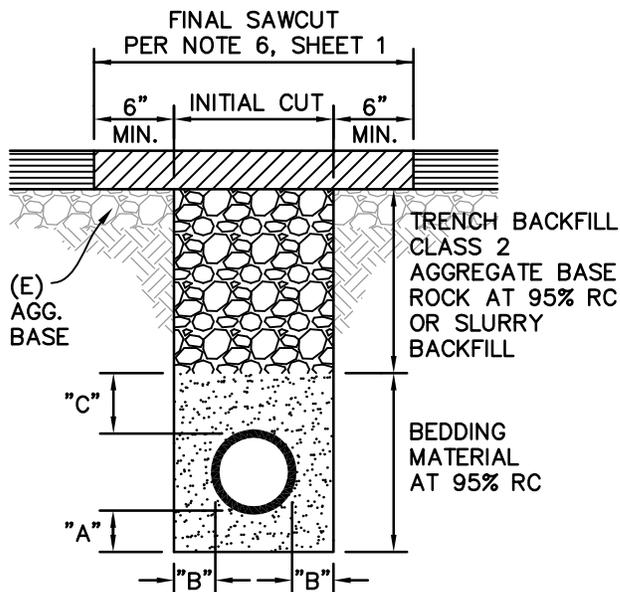
Images: Willits Logo.ppt; Xrefs: Path: \\srosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001\Willits City Standards\CAD\01064-09-001.dwg\Willits21-224.dwg Layout Name: 222 (2) Plot Date: Jul 10, 2009 at 13:32



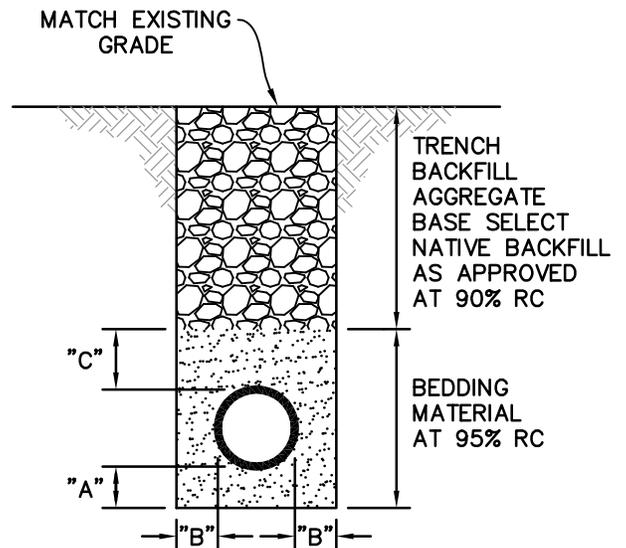
NEW STREETS UNDER CONSTRUCTION



NARROW TRENCH



ROADWAYS



NON-ROADWAY AREAS

NOTE:
SEE SHEET 1 FOR TRENCH DIMENSIONS

SHEET 2 OF 2



**STANDARD TRENCH DETAIL
TRENCH BACKFILL**

STD. NO.
222

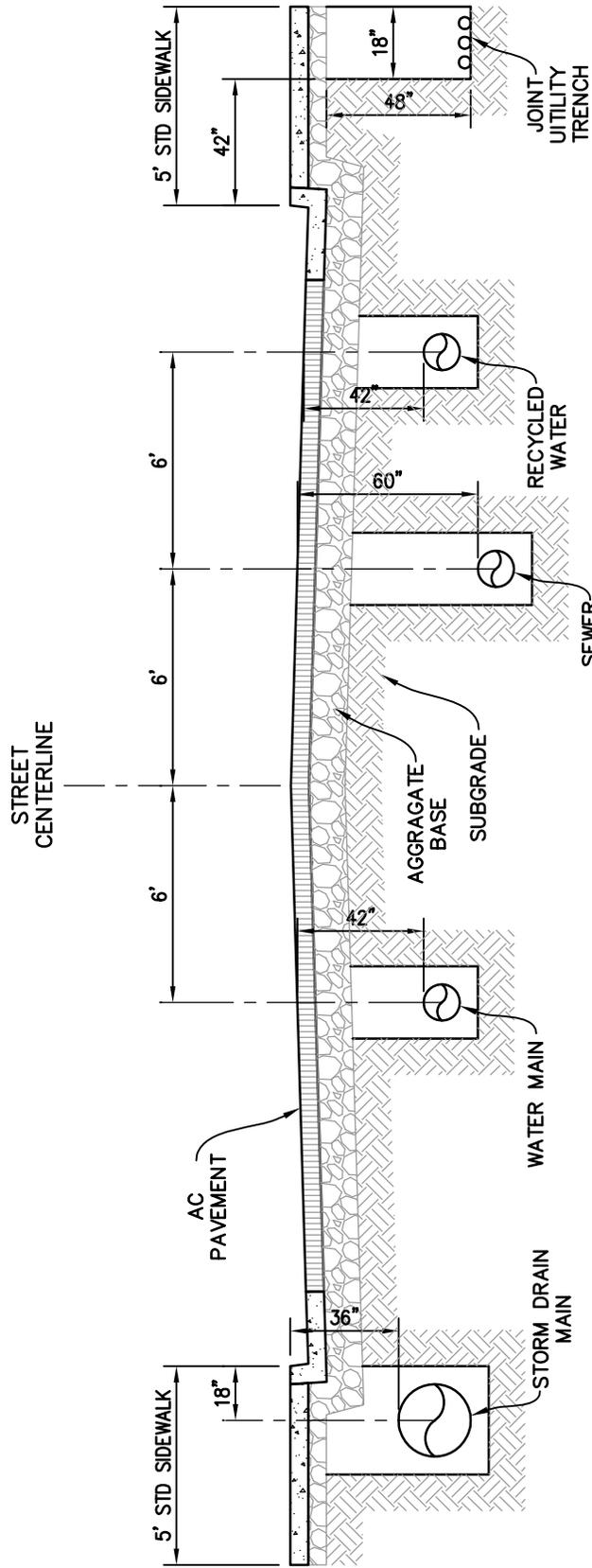
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DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009



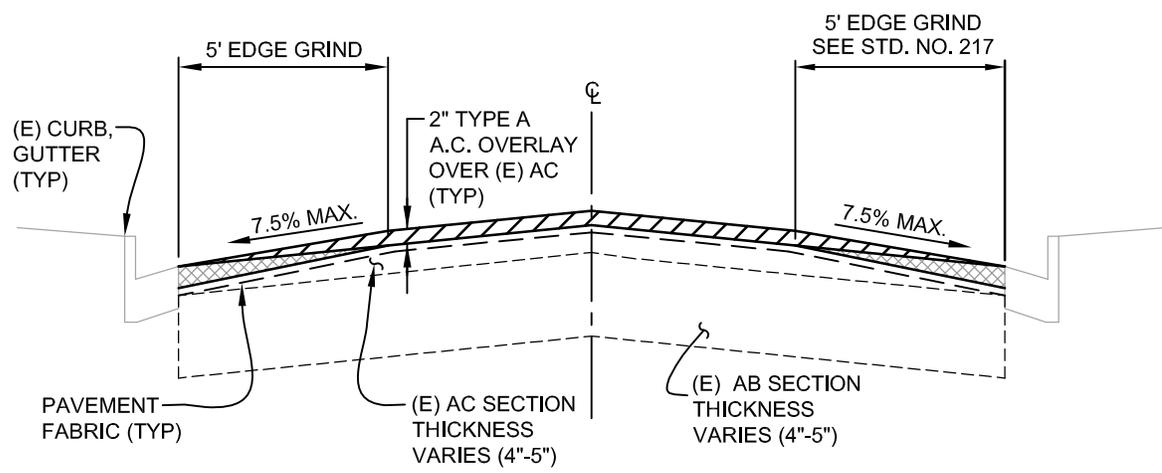
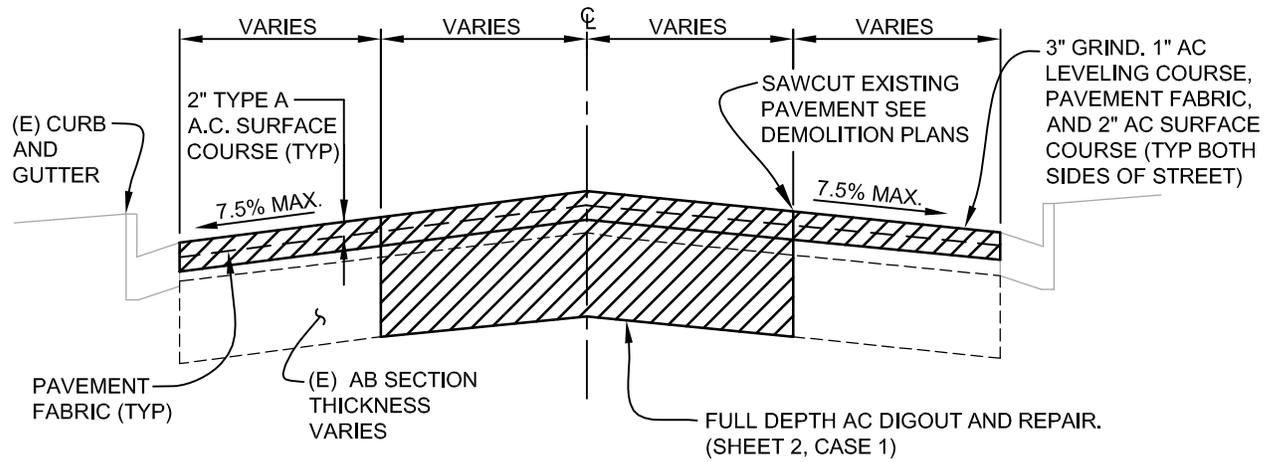
NOTE:
 MINIMUM SEPARATION BETWEEN CROSSING UTILITIES (SEWER, WATER, RECYCLED WATER, STORM DRAIN & JOINT UTILITY TRENCH) SHALL BE 6", EXCEPT: 12" SEPARATION SHALL BE MAINTAINED WHERE RCP STORM DRAIN MAINS CROSS OVER WATER OR SEWER MAINS.

PUBLIC UTILITIES TYPICAL LOCATION

STD. NO.
223

SCALE: NONE	DRAWN: CFB	CHK: MGK	APPVD:
DATE: AUG 2009			

Images: Willits Logo.jpg Xrefs: Path: \\erosvr1.corp.w-and-k.com\PROJECTS\01064 - City of Willits\01064-09-001\Willits City Standards\CAD\01064-09-001\dwg\Willits21-224.dwg Layout Name: 224 (1) Plot Date: Jul 10, 2009 at 13:32



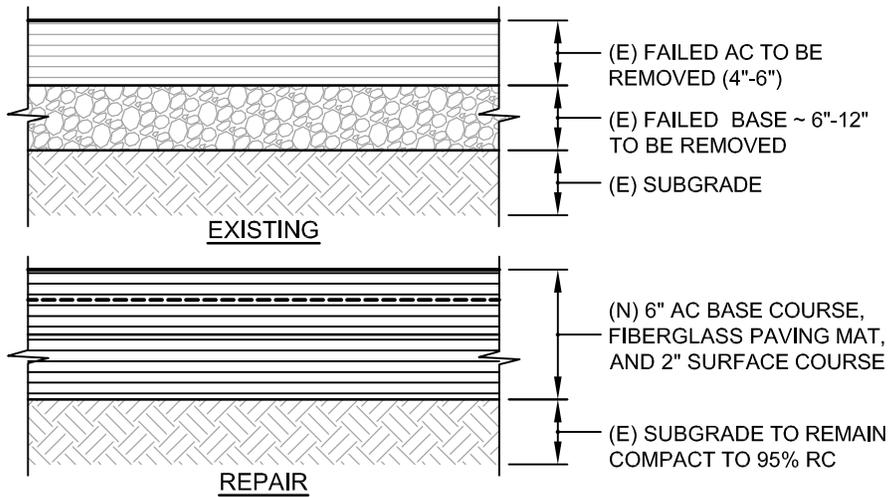
NOTE:
 THE FINISHED AC GRADE AT THE FACE OF THE GUTTER SHALL BE 1/4" HIGHER THAN THE LIP OF THE GUTTER (TYP)

SHEET 1 OF 2

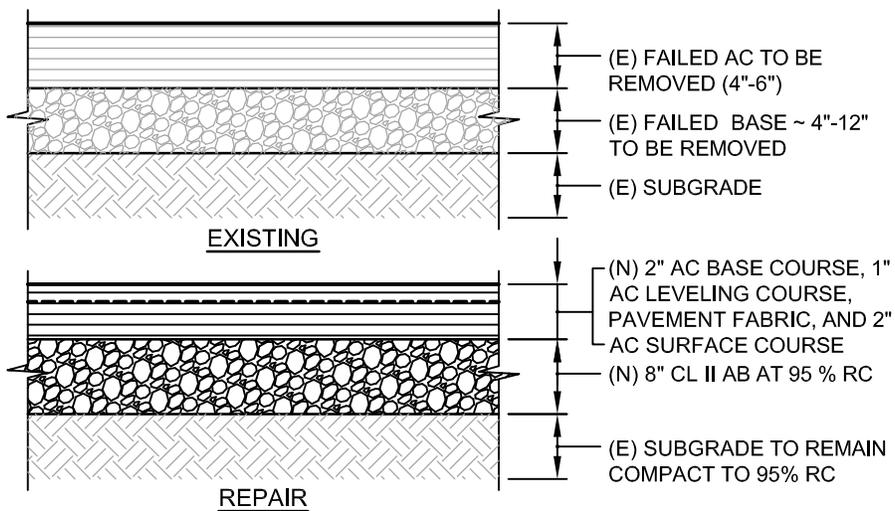


FULL DEPTH AC REPAIR AND OVERLAY			
SCALE: NONE	DRAWN: CFB	CHK: MGK	APPVD:

STD. NO. 224
DATE: AUG 2009

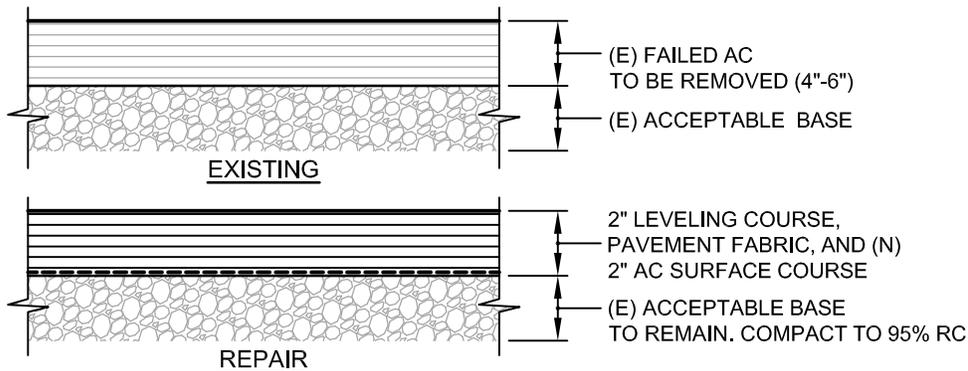


CASE 1: FULL DEPTH AC



CASE 2: REPLACE EXISTING AB

NOTE:
(E) AGG. BASE TO BE REMOVED



CASE 3: EXISTING AB TO REMAIN



AC REPAIR AND OVERLAY

STD. NO.
224

SCALE: NONE

DRAWN: CFB

CHK: MGK

APPVD:

DATE: AUG 2009