

PRESSURE TEST

1. AS PART OF THE CONSTRUCTION, THE WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH THIS SECTION.

2. ALL NEWLY LAD PIPE SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE TEST OF ONE HUNDRED FIFTY (150) POUNDS PER SQUARE INCH. DURATION OF EACH TEST SHALL BE FOR A PERIOD OF NOT LESS THAN TWO (2) HOURS. EACH SEVEN SECTIONS OF PIPE SHALL BE FILLED WITH WATER AND THE SPECIFIED TEST PRESSURE SHALL BE MAINTAINED FOR A PERIOD OF NOT LESS THAN TWO (2) HOURS. BEFORE APPLYING THE SPECIFIED TEST PRESSURE, ALL AIR SHALL BE DELETED FROM THE PIPE. ALL LEAKS SHALL BE REPAIRED BEFORE THE TEST. ANY CRACKS OR DEFECTIVE JOINTS, FITTINGS, VALVES, OR HYDRANTS DISCOVERED IN CONNECTION WITH THIS PRESSURE TEST SHALL BE REPAIRED AND RECHECKED AND THE TEST REPEATED UNTIL SATISFACTORY RESULTS ARE OBTAINED.

3. ALL TESTING SHALL BE DONE BEFORE THE INSTALLATION OF SERVICE LINES. SATISFACTORY RESULTS SHALL BE PROVIDED FOR DETERMINING THE QUANTITY OF WATER LOST BY LEAKAGE UNDER THE SPECIFIED TEST PRESSURE. ALLOWABLE LEAKAGE SHALL NOT BE GREATER THAN THE FOLLOWING:

1" 110 GAL/HR/1000'
 10" 0.90 GAL/HR/1000'
 0.25 GAL/HR/1000'
 6" 0.55 GAL/HR/1000'

LEAKAGE IS DEFINED AS THE QUANTITY OF WATER REQUIRED TO BE SUPPLIED TO THE MAIN TO MAINTAIN THE SPECIFIED LEAKAGE TEST PRESSURE.

THE MINIMUM FLUSHING

PRIOR TO CONNECTION, THE MAIN SHALL BE FLUSHED AS THOROUGHLY AS POSSIBLE WITH THE WATER PRESSURE AND QUALITY AVAILABLE. FLUSHING SHALL BE CONTINUED AFTER THE PRESSURE TEST IS MADE. BECAUSE SUCH FLUSHING REMOVES ONLY THE LIGHT SOILS, IT CANNOT BE RELIED UPON TO REMOVE HEAVY MATERIAL ALLOWED TO GET INTO THE MAIN DURING LAYING. IF NO INDIANT IS INSTALLED AT THE END OF THE MAIN, A TAP SHOULD BE PROVIDED EARLY ENOUGH TO PERMIT A VALIDATION IN THE MAIN OF AT LEAST TWO AND ONE-HALF (2 1/2) FEET PER SECOND.

DISINFECTION

1. THE PROPOSED POINT OF APPLICATION OF THE CHLORINATING AGENT SHALL BE AT THE BEGINNING OF THE PIPELINE EXTENSION OR ANY VALUED SECTION OF IT AND SHOULD BE IN CONNECTION WITH THE END OF THE MAIN. THE INJECTION POINT FOR DELIVERING THE CHLORINE GAS INTO THE PIPE SHOULD BE SUPPLIED FROM A TAP ON THE PRESSURE SIDE OF THE GATE VALVE CONTROLLING THE FLOW INTO THE PIPELINE EXTENSION.

2. WATER FROM THE EXISTING DISTRIBUTION SYSTEM OR OTHER SOURCE OF SUPPLY SHALL BE CONTROLLED TO 40 TO 50 GPM INTO THE NEWLY LAD PIPELINE DURING THE APPLICATION OF CHLORINE GAS. THE RATE OF CHLORINE MIXTURE FLOW SHALL BE SUCH PROPORTION TO THE RATE OF WATER ENTERING THE PIPE THAT THE CHLORINE DOSE APPLIED TO THE WATER ENTERING THE NEWLY LAD PIPE SHALL BE AT LEAST FIFTY (50) PPM, OR ENOUGH TO MEET THE REQUIREMENTS DURING THE CHLORINATION PERIOD. THIS MAY REQUIRE AS MUCH AS ONE HUNDRED (100) PPM OF CHLORINE IN THE WATER LEFT IN THE LINE AFTER CHLORINATION.

3. VALVES SHALL BE MANIPULATED SO THAT THE STRONG CHLORINE SOLUTION IN THE LINE BEING TREATED SHALL NOT FLOW BACK INTO THE LINE SUPPLYING THE WATER.

4. TREATED WATER SHALL BE BLENDING IN THE PIPE LONG ENOUGH TO DESTROY ALL SPORO-FORMING BACTERIA. THIS BLENDING PERIOD SHALL BE AT LEAST SEVEN (7) HOURS AFTER THE CHLORINE-TREATED WATER HAS BEEN RETURNED FOR THE REQUIRED TIME. THE CHLORINE RESIDUAL AT THE PIPE EXTREMITIES AND AT OTHER REPRESENTATIVE POINTS SHOULD BE AT LEAST 2.0 PPM.

5. IN THE PROCESS OF CHLORINATING NEWLY LAD PIPE, ALL VALVES OR OTHER APPURTENANCES SHALL BE OPERATED WHILE THE PIPELINE IS FILLED WITH THE CHLORINATING AGENT.

6. ALL WATER MAINS SHALL BE DISINFECTED AND TESTED ACCORDING TO REQUIREMENTS OF THE "STANDARDS FOR DISINFECTING WATER MAINS" (AWWA C601) AND AS REQUIRED BY THIS SECTION. ALL DISINFECTION AS REQUIRED BY THIS SECTION SHALL BE PERFORMED BY AN INDEPENDENT FIRM LICENSED IN EXPERIENCE IN THE METHODS AND TECHNIQUES OF THIS OPERATION AND SHALL BE APPROVED BY THE VILLAGE ENGINEER.

FINAL FLUSH AND TESTING

1. FOLLOWING CHLORINATION, ALL TREATED WATER SHALL BE THOROUGHLY FLUSHED FROM THE NEWLY LAD PIPELINE AT ITS EXTREMITIES UNTIL THE REPLACEMENT WATER, THROUGHOUT ITS LENGTH, SHOWS TEST RESULTS AS SPECIFIED BY THE VILLAGE ENGINEER. THIS QUALITY OF WATER DELIVERED BY THE NEW MAIN SHOULD CONTINUE FOR A PERIOD OF AT LEAST TWO (2) HOURS. DATES AS DEMONSTRATED BY LABORATORY EXAMINATION OF SAMPLES TAKEN FROM A TAP LOCATED AND INSTALLED IN SUCH A MANNER AS TO PREVENT OUTSIDE CONTAMINATION. SAMPLES SHOULD NEVER BE TAKEN FROM AN UNSTERILIZED HOSE OR FROM A FIRE HYDRANT BECAUSE SUCH SAMPLES WOULD NOT MEET CURRENT ELECTRIC CODE STANDARDS.

2. AFTER DISINFECTION AND FLUSHING, A MINIMUM OF TWO (2) WATER SAMPLES SHALL BE COLLECTED BY THE CONTRACTOR ON TWO SUCCESSIVE DAYS, WITH NOTICE GIVEN SO THAT THE COLLECTION MAY BE WITNESSED BY THE VILLAGE ENGINEER. BACTERIOLOGICAL SAMPLING AND ANALYSIS OF THE SAMPLES SHALL BE PERFORMED BY A LABORATORY APPROVED BY THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH AND THE VILLAGE ENGINEER. SHOULD THE INITIAL TREATMENT RESULT IN AN UNSATISFACTORY RESULT, THE PROCEDURE SHALL BE REPEATED UNTIL SATISFACTORY RESULTS ARE OBTAINED. THE CONTRACTOR OR DEVELOPER SHALL PAY FOR THE SAMPLING AND ANALYSIS. RESULTS OF THE ANALYSIS SHALL BE TRANSMITTED TO THE VILLAGE ENGINEER DIRECTLY TO THE VILLAGE ENGINEER. TEST RESULTS SHALL INDICATE THE DATE THE SAMPLES WERE COLLECTED, THE DATE THE ANALYSIS WAS MADE, THE LOCATION AT WHICH SAMPLES WERE TAKEN, THE FIRM SUBMITTING THE SAMPLES, AND THE PROJECT AT WHICH THE SAMPLES WERE COLLECTED. SUFFICIENT SAMPLES SHALL BE COLLECTED IN ORDER TO INSURE THAT THE SYSTEM IS BACTERIOLOGICALLY SAFE.

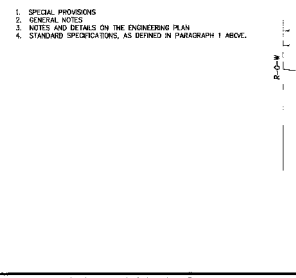
STANDARD SPECIFICATIONS

THE STANDARD SPECIFICATIONS WHICH APPLY TO THE CONSTRUCTION WORK AS SHOWN ON THE ENGINEERING PLANS, ARE CONTAINED IN THE FOLLOWING DOCUMENTS:

- STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS ADOPTED JANUARY 1, 2002 BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION AND ALL SUBSEQUENT REVISIONS.
- STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS FIFTH EDITION AS ADOPTED MAY, 1998 BY THE ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS, ET AL., AND ALL SUBSEQUENT REVISIONS.
- STANDARD SPECIFICATIONS AS CURRENTLY IN EFFECT BY THE CITY, VILLAGE, AND ALL SUBSEQUENT REVISIONS.
- PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL IN ILLINOIS, LATEST EDITION AND ALL SUBSEQUENT REVISIONS.

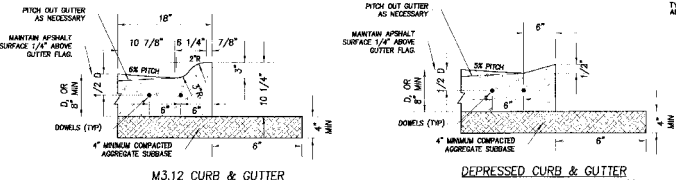
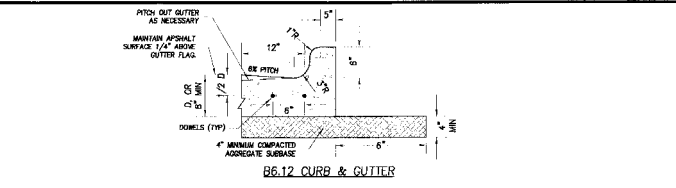
IN THE EVENT OF A CONFLICT BETWEEN STANDARDS WHICH APPLY TO THE CONSTRUCTION WORK, THE STANDARD CONTAINED WITHIN THE DOCUMENT FIRST CITED SHALL PREVAIL.

1. SPECIAL PROVISIONS
 GENERAL NOTES
 3. NOTES AND DETAILS ON THE ENGINEERING PLAN
 4. STANDARD SPECIFICATIONS, AS APPLICABLE.



1. 1 1/2" BITUMINOUS SUBBASE COURSE, CLASS 1
 2. PRIME COAT (E120 GAL/75')
 3. 1 1/2" BITUMINOUS BINDER COURSE, CLASS 1
 4. PRIME COAT (E120 GAL/75')
 5. 1/2" BASE COURSE (C4-6) COMPACTED TO 95% MOD PROCTOR
 6. COMPACTED SUBGRADE, 5% MOD PROCTOR
 7. 6\"/>

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M312 CURB & GUTTER

DEPRESSED CURB & GUTTER ADJACENT TO HANDICAP ACCESS

NOTES:

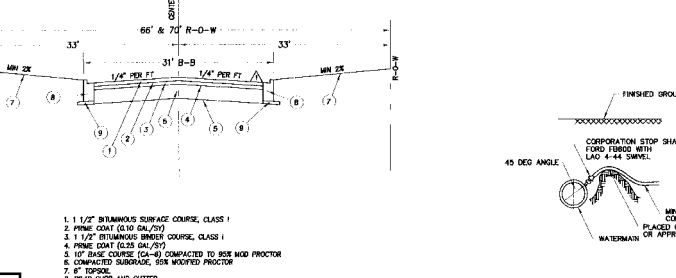
- 3/4" PRIFORMED BITUMINOUS EXPANSION JOINT MATERIAL WITH TWO (2) NUMBER 8 COATED SMOOTH DOMES (3/4" DIAMETER X 1/2" H) WITH GREASE CAPS SHALL BE PLACED EVERY 100', 10' EITHER SIDE OF DRIVEWAY STRUCTURES, P.C.'S, MANHOLE FRAMES AND BASES OF CURB & GUTTERS. WHEN EXPANSION JOINTS ARE CONSTRUCTED ADJACENT TO EXISTING CURBS AND GUTTERS, THE EXISTING CURB SHALL BE DRILLED AND TWO (2) NUMBER 8 COATED SMOOTH DOMES (3/4" DIAMETER X 1/2" H) PROVIDED IN PLACE. GREESE CAPS SHALL BE PLACED ON THE CURB OF THE NEW CURB AND GUTTER AND SHALL HAVE A FINISHED TOP THAT WILL PROVIDE A MINIMUM 1" EXPANSION.
- TOOLED CONTROL JOINTS OR SAWCUTS SHALL BE MADE EVERY 15'.
- SAWCUTS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS AND SEALED WITH A CITY APPROVED JOINT SEALANT. JOINTS SHALL BE CLEAN AND DRY PRIOR TO APPLICATION OF SEALANT.
- ALL CONCRETE SHALL BE CLASS 8, 8 BAG MIX, 5-8% AIR ENTRAINMENT, 2"-4" MAXIMUM SLUMP, LIGHT ROOM FINISH WITH TWO COATS OF APPROVED CURING SOLUTION.
- 3/4" PRIFORMED JOINTS SHALL BE PLACED AT ALL ADJUTING CONCRETE.
- 1/2" DENOTES PAVEMENT THICKNESS DUAL DEPTH.



WATER AND SEWER SEPARATION DETAIL (HORIZONTAL SEPARATION) N.T.S.

NOTES:

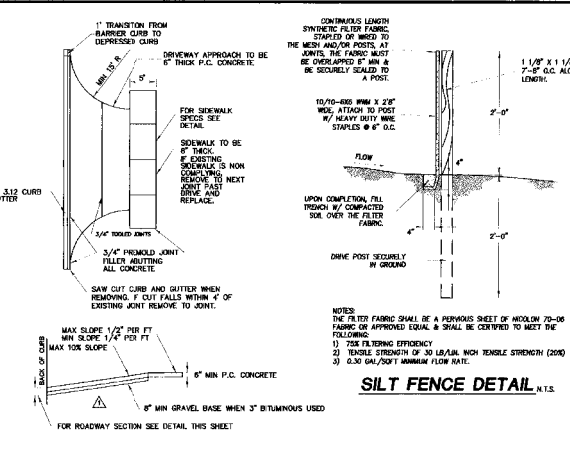
- ALL CONSTRUCTION MATERIALS AND METHODS SHALL COMPLY WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" IN ILLINOIS ADOPTED JANUARY 1, 2002 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION UNLESS OTHERWISE SPECIFIED HEREIN.
- ALL CONCRETE SHALL BE 3000 CLASS 8, 8 BAG MIX, 5-8% ENTRAINMENT AIR, 2"-4" MAXIMUM SLUMP WITH A BROWNED FINISH.
- SAWCUT EXISTING CURB PERPENDICULAR TO BACK OF CURB FOR THE EDGE OF WALL UNLESS OUT INFORMATION PERTAINS TO CURB AND GUTTER AFTER FLOW.
- PLACE 1/4" PRIFORMED EXPANSION JOINTS WITH FLASHING LIGHTS ON ALL SIDES OF EXCAVATIONS.
- PLACE 3/4" PRIFORMED EXPANSION JOINTS WITH FLASHING LIGHTS EXISTING CURB AND ON BOTH SIDES OF UTILITY STRUCTURE AND EVERY 50' 0-6".
- MINIMUM TRANSVERSE SLOPE SHALL BE 1/4" PER FOOT (2%) AND THE MAXIMUM SHALL BE 1/2" PER FOOT (4%).
- MINIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 0.6% (1/2").
- SEWERMAN SHALL BE 3 INCH THICK P.C. CONCRETE AS SPECIFIED ABOVE. AT DRIVEWAY CROSSINGS, THE PROPOSED SHALL BE 6 INCHES.
- ALL SEWERMAN SHALL BE PROPERLY DESIGNED AND PROTECTED FROM DAMAGE.
- NO REINFORCED STEEL SHALL BE PLACED WITHIN A PUBLIC SIDEWALK WITHOUT SPECIFIC PERMISSION OF THE VILLAGE INSPECTOR, INCLUDING UTILITY TRENCH CROSSINGS.



TYPICAL PAVEMENT SECTION

1. 1 1/2" BITUMINOUS SUBBASE COURSE, CLASS 1
 2. PRIME COAT (E120 GAL/75')
 3. 1 1/2" BITUMINOUS BINDER COURSE, CLASS 1
 4. PRIME COAT (E120 GAL/75')
 5. 1/2" BASE COURSE (C4-6) COMPACTED TO 95% MOD PROCTOR
 6. COMPACTED SUBGRADE, 5% MOD PROCTOR
 7. 6" 1/2" CURB AND GUTTER
 8. MINIMUM 4" BASE COURSE (C4-6) COMPACTED TO 95% MOD PROCTOR

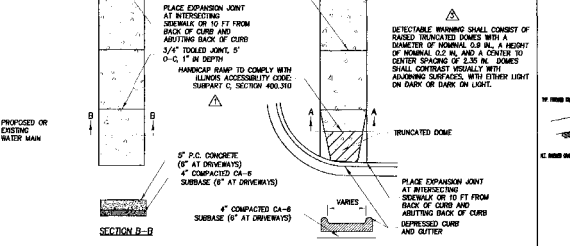
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DRIVEWAY ENTRANCE

NOTES:

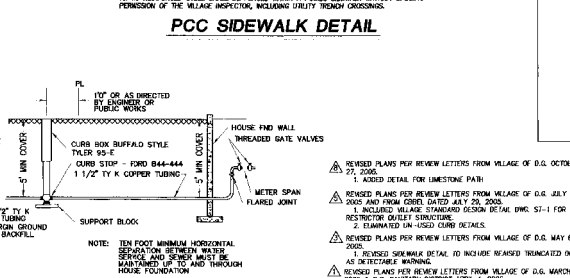
- CONCRETE SHALL BE 3000 CLASS 8, 8 BAG MIX, 5-8% ENTRAINMENT AIR, 2"-4" MAXIMUM SLUMP WITH A BROWNED FINISH.
- SAWCUT EXISTING CURB PERPENDICULAR TO BACK OF CURB FOR THE EDGE OF WALL UNLESS OUT INFORMATION PERTAINS TO CURB AND GUTTER AFTER FLOW.
- PLACE 1/4" PRIFORMED EXPANSION JOINTS WITH FLASHING LIGHTS ON ALL SIDES OF EXCAVATIONS.
- PLACE 3/4" PRIFORMED EXPANSION JOINTS WITH FLASHING LIGHTS EXISTING CURB AND ON BOTH SIDES OF UTILITY STRUCTURE AND EVERY 50' 0-6".
- MINIMUM TRANSVERSE SLOPE SHALL BE 1/4" PER FOOT (2%) AND THE MAXIMUM SHALL BE 1/2" PER FOOT (4%).
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- ALL SEWERMAN SHALL BE PROPERLY DESIGNED AND PROTECTED FROM DAMAGE.
- NO REINFORCED STEEL SHALL BE PLACED WITHIN A PUBLIC SIDEWALK WITHOUT SPECIFIC PERMISSION OF THE VILLAGE INSPECTOR, INCLUDING UTILITY TRENCH CROSSINGS.



WATER AND SEWER SEPARATION DETAIL (HORIZONTAL SEPARATION) N.T.S.

NOTES:

- ALL CONSTRUCTION MATERIALS AND METHODS SHALL COMPLY WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" IN ILLINOIS ADOPTED JANUARY 1, 2002 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION UNLESS OTHERWISE SPECIFIED HEREIN.
- ALL CONCRETE SHALL BE 3000 CLASS 8, 8 BAG MIX, 5-8% ENTRAINMENT AIR, 2"-4" MAXIMUM SLUMP WITH A BROWNED FINISH.
- SAWCUT EXISTING CURB PERPENDICULAR TO BACK OF CURB FOR THE EDGE OF WALL UNLESS OUT INFORMATION PERTAINS TO CURB AND GUTTER AFTER FLOW.
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- PLACE 3/4" PRIFORMED EXPANSION JOINTS WITH FLASHING LIGHTS EXISTING CURB AND ON BOTH SIDES OF UTILITY STRUCTURE AND EVERY 50' 0-6".
- MINIMUM TRANSVERSE SLOPE SHALL BE 1/4" PER FOOT (2%) AND THE MAXIMUM SHALL BE 1/2" PER FOOT (4%).
- MINIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 0.6% (1/2").
- SEWERMAN SHALL BE 3 INCH THICK P.C. CONCRETE AS SPECIFIED ABOVE. AT DRIVEWAY CROSSINGS, THE PROPOSED SHALL BE 6 INCHES.
- ALL SEWERMAN SHALL BE PROPERLY DESIGNED AND PROTECTED FROM DAMAGE.
- NO REINFORCED STEEL SHALL BE PLACED WITHIN A PUBLIC SIDEWALK WITHOUT SPECIFIC PERMISSION OF THE VILLAGE INSPECTOR, INCLUDING UTILITY TRENCH CROSSINGS.

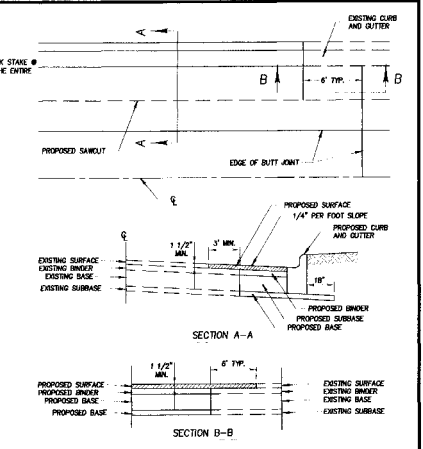


PCC SIDEWALK DETAIL

NOTES:

- REMOVED PLANS PER REVIEW LETTERS FROM VILLAGE OF D.G. OCTOBER 27, 2006.
- ADJUST DETAIL PER LATEST ILLINOIS PAV.
- REMOVED PLANS PER REVIEW LETTERS FROM VILLAGE OF D.G. JULY 5, 2005 AND FROM CORRECTION DATED JAN 20, 2005.
1. ILLINOIS VILLAGE STANDARD DESIGN DETAIL SPEC. S1-11 FOR THE RESPECTOR GUTTER STRUCTURE.
2. STANDARD UN-USED CURB DETAILS.
- REMOVED PLANS PER REVIEW LETTERS FROM VILLAGE OF D.G. MAY 6, 2005.
- REMOVED SIDEWALK DETAIL, TO INCLUDE REARSED TRUNCATED DOMES AS DETAILING WARNING.
- REMOVED PLANS PER REVIEW LETTERS FROM VILLAGE OF D.G. MARCH 10, 2005 & D.G. SANITARY DISTRICT APRIL 4, 2002.
- REMOVED PERFORMED WITHIN DRIVEWAY ENTRANCE DETAIL, THAT COMPLETED WITH D.G. SANITARY DISTRICT'S SPECIFICATIONS.
- ADJUSTED DETAIL PERFORMED WITHIN DRIVEWAY ENTRANCE DETAIL.
3. ADJUSTED NOTE TO PCC SIDEWALK DETAIL TO CONFORM WITH THE ILLINOIS ACCESSIBILITY CODE.
- ADJUSTED POINTS ON TYPICAL PAVEMENT SECTION DETAIL.

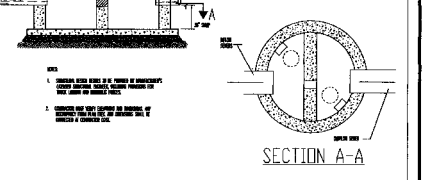
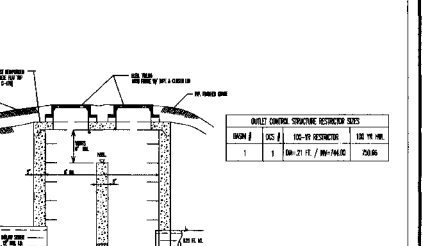
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SILT FENCE DETAIL N.T.S.

NOTES:

- FOR SLOPING LESS THAN 8% THESE COMPACTION IS DIFFICULT, CONCRETE BASE SHALL BE USED.
- FOR PROPOSED OF BITUMINOUS BINDER, BINDER AND AGGREGATE BASE, SEE TYPICAL SECTION FOR ROADWAY PAVEMENT.



OUTLET CONTROL STRUCTURE DETAIL

NOTES:

- CONCRETE SHALL BE 3000 CLASS 8, 8 BAG MIX, 5-8% ENTRAINMENT AIR, 2"-4" MAXIMUM SLUMP WITH A BROWNED FINISH.
- SAWCUT EXISTING CURB PERPENDICULAR TO BACK OF CURB FOR THE EDGE OF WALL UNLESS OUT INFORMATION PERTAINS TO CURB AND GUTTER AFTER FLOW.
- PLACE 1/4" PRIFORMED EXPANSION JOINTS WITH FLASHING LIGHTS ON ALL SIDES OF EXCAVATIONS.
- PLACE 3/4" PRIFORMED EXPANSION JOINTS WITH FLASHING LIGHTS EXISTING CURB AND ON BOTH SIDES OF UTILITY STRUCTURE AND EVERY 50' 0-6".
- MINIMUM TRANSVERSE SLOPE SHALL BE 1/4" PER FOOT (2%) AND THE MAXIMUM SHALL BE 1/2" PER FOOT (4%).
- MINIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 0.6% (1/2").
- SEWERMAN SHALL BE 3 INCH THICK P.C. CONCRETE AS SPECIFIED ABOVE. AT DRIVEWAY CROSSINGS, THE PROPOSED SHALL BE 6 INCHES.
- ALL SEWERMAN SHALL BE PROPERLY DESIGNED AND PROTECTED FROM DAMAGE.
- NO REINFORCED STEEL SHALL BE PLACED WITHIN A PUBLIC SIDEWALK WITHOUT SPECIFIC PERMISSION OF THE VILLAGE INSPECTOR, INCLUDING UTILITY TRENCH CROSSINGS.

STANDARD DESIGN DETAIL

DRAWING NO. ST-1
 DATE: 10/30/2003

NELSON MEADOW

WEST SIDE OF CAMPBELL STREET
 EXCAVATIONS DRIVE, ILLINOIS

GENERAL NOTES AND DETAILS

SCALE: N.T.S.
 DATE: 1-24-05

JOB NUMBER: 04-289
DATE: 1-24-05
PER VILLAGE & CLIENT REVIEW: 7-21-06
PER VILLAGE REVIEW: 10-5-06
PER VILLAGE REVIEW: 9-4-05
PER VILLAGE REVIEW: 1-24-05
PER VILLAGE REVIEW: 4-21-05
PER VILLAGE REVIEW: 4-21-05
PER VILLAGE REVIEW: 3-18-05
PER VILLAGE REVIEW: 6-9-05
PER VILLAGE REVIEW: 7-9-05
PER VILLAGE REVIEW: 8-17-05

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