

**GENERAL NOTES**

**CITY OF CRYSTAL LAKE WATER SYSTEM GENERAL NOTES**

1. THE CITY OF CRYSTAL LAKE ENGINEERING MUST BE CONTACTED AT LEAST 48 HOURS PRIOR TO COMPLETING ANY WORK ON ANY WATER SYSTEM COMPONENTS, INCLUDING, BUT LIMITED TO, VALVE VAULTS, WATER MAIN PIPE, WATER SERVICES, AND FIRE HYDRANTS.
2. ONLY CITY OF CRYSTAL LAKE EMPLOYEES SHALL OPERATE ANY WATER DISTRIBUTION APPURTENANCES (I.E. WATER VALVES, HYDRANTS, ETC.).
3. WATER MAIN AND SEWER SEPARATION REQUIREMENTS MUST MEET THE VERTICAL AND HORIZONTAL SEPARATION REQUIREMENTS IN THE "STANDARD SPECIFICATIONS FOR WATER MAIN AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION.
4. THRUST BLOCKING SHALL BE INSTALLED ON WATER MAINS AT ALL BENDS, TEES, ELBOWS, ETC. EXCEPT AS NOTED BELOW.
5. THRUST BLOCKS NOT PERMITTED WITH 45° VERTICAL BENDS IN WATER MAIN. THESE SHALL BE RESTRAINED WITH MEGA-LUG OR APPROVED EQUIVALENT.
6. WATER MAIN SHALL BE DUCTILE IRON PIPE, CLASS 52 CONFORMING TO ANSI A-21.51 OR AWWA C-151.
7. GASKETS AND CAST IRON FITTINGS SHALL CONFORM TO ANSI A-21.11 OR AWWA C-110 AND C-111. WATER MAIN SHALL BE CEMENT LINED IN CONFORMANCE WITH ANSI A-21.4 OR AWWA C-104.
8. VALVE VAULT FRAME AND ADJUSTMENT RINGS SHALL BE SET IN A MORTAR BED OR SEALED WITH A PREFORMED BITUMEN SEAL (E-Z-STICK OR APPROVED EQUAL). ADJUSTMENT RING HEIGHT NOT TO EXCEED 8 INCHES WITH A MAXIMUM OF THREE (3) ADJUSTMENT RINGS.
9. SEE FIRE HYDRANT DETAIL FOR REQUIREMENTS RELATED TO RELOCATION AND ADJUSTMENTS. ALL WATER MAIN PIPE FOR FIRE HYDRANTS MOVED OR ADJUSTED SHALL BE SUBJECTED TO A PRESSURE AND LEAKAGE TEST IN ACCORDANCE WITH THE CITY OF CRYSTAL LAKE REQUIREMENTS. THIS WORK IS INCLUDED IN FIRE HYDRANT TO BE MOVED OR FIRE HYDRANT TO BE ADJUSTED.
10. FLUSH AND SWAB ALL PIPING, VALVES, AND FITTINGS USED FOR FIRE HYDRANT RELOCATION OR VERTICAL ADJUSTMENT WITH A 5 PERCENT SOLUTION OF CALCIUM HYPOCHLORITE PRIOR TO ASSEMBLY. FLUSH THE HYDRANT THOROUGHLY AFTER ASSEMBLY. WATER SAMPLES SHALL BE TAKEN ON TWO SUCCESSIVE DAYS AND TESTED FOR BACTERIA IN ACCORDANCE WITH THE IEPA REQUIREMENTS. THIS WORK IS INCLUDED IN FIRE HYDRANT TO BE MOVED OR FIRE HYDRANT TO BE ADJUSTED.
11. SEVERAL DOMESTIC WATER SERVICE BOXES MAY NOT BE SHOWN ON THE PLANS BECAUSE THEY MAY BE BURIED OR OUTSIDE THE SURVEY LIMITS. 6 FOOT OF COVER MUST BE MAINTAINED OVER ALL WATER SERVICES. IF IT IS DETERMINED THAT A WATER SERVICE WILL HAVE LESS THAN 6' OF COVER AFTER PROPOSED DITCHLINES ARE COMPLETED, THE SERVICE LINE SHALL BE LOWERED IN ACCORDANCE WITH CRYSTAL LAKE STANDARDS AND PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
2. THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE VILLAGE DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR SHALL HAVE THE RESPECTIVE UTILITY COMPANIES FIELD LOCATE ALL THEIR FACILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ALSO VERIFY THE DEPTHS OF THE EXISTING UTILITIES IF NECESSARY. ANY RELOCATION OR LOWERING OF UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR.
3. EXISTING SANITARY SEWER AND WATER MAIN IN THE PROJECT LIMITS ARE OWNED BY THE CITY OF CRYSTAL LAKE AND NOT LAKEWOOD. ALL ADJUSTMENTS, RELOCATIONS, ETC. OF THESE FACILITIES SHALL BE COORDINATED WITH THE CITY OF CRYSTAL LAKE PUBLIC WORKS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES, EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER OR VILLAGE.
5. THE CONTRACTOR SHALL NOTIFY THE VILLAGE PUBLIC WORKS ADMINISTRATOR AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN VILLAGE UTILITY LOCATIONS AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER.
6. THE CONTRACTOR MAY OBTAIN MUNICIPAL WATER, AS LONG AS THERE IS NOT A "WATERING BAN" IN EFFECT. THE INDISCRIMINATE USE OF FIRE HYDRANTS IS STRICTLY PROHIBITED. FIRE HYDRANTS ON SITE ARE OWNED BY THE CITY OF CRYSTAL LAKE AND USE OF THESE HYDRANTS MUST BE COORDINATED WITH THE CITY OF CRYSTAL LAKE PUBLIC WORKS. THE CONTRACTOR MUST OBTAIN A WATER METER AND RPZ FROM THE CITY AND PAY ALL APPLICABLE DEPOSITS AND FEES FOR WATER USE. THE CONTRACTOR SHALL PROVIDE THE WATER TRUCK AND DRIVER REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CITY RESERVES THE RIGHT TO RESTRICT OR REFUSE THE USE OF CITY WATER IF DEEMED NECESSARY.
7. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY RESIDENTS AND THE VILLAGE WHEN ACCESS TO THEIR DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO DRIVEWAY REPLACEMENT. THE CONTRACTOR SHALL DISTRIBUTE NOTICES PROVIDED BY THE VILLAGE TO RESIDENTS. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES INCLUDING KNOCKING ON DOORS WHEN DRIVEWAYS ARE ABOUT TO BE CLOSED. ACCESS TO PRIVATE DRIVEWAYS SHALL BE PROVIDED AT ALL TIMES EXCEPT DURING ACTUAL CONSTRUCTION ADJACENT THERE TO. TEMPORARY RAMPS SHALL BE CONSTRUCTED AS NEEDED TO PROVIDE SUCH ACCESS, UTILIZING CRUSHED STONE OR CRUSHED GRAVEL AS AGGREGATE FOR TEMPORARY ACCESS.
8. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE OWNERS, HIS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
9. EXISTING PAVEMENT AND DRIVEWAY PAVEMENT TO REMAIN IN PLACE SHALL BE SAW CUT FULL DEPTH TO PROVIDE A NEAT VERTICAL FACE BETWEEN THE PROPOSED AND EXISTING AND SHALL BE INCLUDED IN THE PRICE OF THE APPROPRIATE REMOVAL PAY ITEM.
10. RESERVED
11. THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED. ONE (1) WEIGHTED SANDBAG SHALL BE PLACED ACROSS EACH BOTTOM RAIL.

12. ALL POSTS, RAILROAD TIES, DECORATIVE TIMBER AND OTHER LANDSCAPING BORDERS IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED AND RELOCATED AS DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION AND SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. EVERY EFFORT SHALL BE MADE BY THE CONTRACTOR WHEN REMOVING THESE ITEMS TO PRESERVE THEM FROM HARM. ITEMS NOT RELOCATED SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
13. PRIOR TO CONSTRUCTION OF ANY PROPOSED UTILITIES, THE CONTRACTOR SHALL EXCAVATE AND LOCATE THE EXISTING UTILITIES TO VERIFY THEIR LOCATION, SIZE, AND DEPTH TO INSURE THAT GRADE CONFLICTS WILL NOT OCCUR. THE COST OF THIS EXPLORATION SHALL BE PAID FOR AS EXPLORATION TRENCH, SPECIAL.
14. CONNECTION OF PROPOSED STORM SEWER INTO EXISTING STORM SEWER OR EXISTING STORM SEWER STRUCTURES SHALL BE INCLUDED IN THE COST OF STORM SEWERS.
15. RESERVED
16. STORM STRUCTURE OFFSET LOCATIONS ARE TO THE CENTER OF STRUCTURE.
17. IN ALL TRENCHES CROSSING DRIVEWAYS AND ALL PROPOSED AND EXISTING ROADWAYS AND SHOULDERS, THE MATERIAL FOR THE TOP 12 INCHES SHALL BE CA-6 CRUSHED GRAVEL OR CRUSHED STONE AND BE INCLUDED IN THE PAY ITEM FOR TRENCH BACKFILL. THE BACKFILL SHALL EXTEND TO AND BE MEASURED FOR PAYMENT TO THE EXISTING GROUND OR SURFACE ELEVATION.
18. FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF COST OF THE STRUCTURE.
19. ALL OPEN TRENCHES SHALL BE FILLED AT THE END OF EACH DAY.
20. SAW CUTS MADE IN THE EXISTING PAVEMENT TO REMAIN FOR CONSTRUCTING UTILITIES SHALL BE INCLUDED IN CLASS D PATCHES.
21. FULL-DEPTH SAW CUTS SHALL BE MADE ALONG THE EXISTING EDGE OF PAVEMENT AT THE APPROPRIATE DISTANCE FROM CENTERLINE, AS DETERMINED BY THE ENGINEER, TO PROVIDE A NEAT VERTICAL FACE BETWEEN THE EXISTING AND PROPOSED PAVEMENTS AND SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
22. " SPECIAL FRAME AND LID" OR " SPECIAL FRAME, OPEN LID" SHALL BE HEAVY DUTY (4") NEENAH R-2595-A, OR APPROVED EQUAL.
23. THE CONTRACTOR SHALL PROTECT ALL EXISTING LANDSCAPING, INCLUDING PLANTS, SHRUBS, TREES, FENCES, ETC. THAT ARE NOT DIRECTLY IMPACTED BY PAVEMENT STORM SEWER OR DITCH CONSTRUCTION.
24. ALL WATER MAIN AND SANITARY SEWER ON SITE IS OWNED AND OPERATED BY THE CITY OF CRYSTAL LAKE. SEE CITY OF CRYSTAL LAKE WATER SYSTEM GENERAL NOTES.

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**VILLAGE OF LAKEWOOD, ILLINOIS  
HUNTLEY ROAD  
BICYCLE TRAIL**

**GENERAL NOTES**

SCALE: STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0118	10-00011-00-BT	MCHENRY	35	3
			CONTRACT NO. 63545	
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT CMM-90036281	