

CONTRACT No. 63149

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE SPECIFICATIONS, GENERAL CONDITIONS, SPECIAL PROVISIONS, AND OTHER CONTRACT REQUIREMENTS OF THE OWNER; CODES, STANDARDS, AND ORDINANCES OF THE VILLAGE OF LA GRANGE; PLANS, DETAILS, AND SPECIFICATIONS ISSUED BY THE ENGINEER; THE APPLICABLE PROVISIONS OF THE 2007 EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"; THE 2003 EDITION OF THE "ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE 1996 EDITION OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS"; AND THE 1999 EDITION OF THE "MANUAL OF PROCEDURES FOR THE ADMINISTRATION OF A SEWER PERMIT ORDINANCE"; INCLUDING ALL APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND REVISIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES AND SHALL CONTACT J.U.L.I.E. (1-800-892-0123), THE OWNER, AND EACH OF THE OTHER MUNICIPAL, GOVERNMENTAL AND/OR PRIVATE UTILITY COMPANIES, WHICH MAY HAVE THEIR FACILITIES LOCATED WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENTS TO AID IN THE LOCATION OF FACILITIES. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ALL PERMITTING AGENCIES AT LEAST TWO (2) WORKING DAYS OF NOTICE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND THE ENGINEER FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, DIRECT, INDIRECT, OR CONSEQUENTIAL, ARISING OUT OF, OR FROM THE PERFORMANCE OF THE WORK.
- ALL FENCES, BUILDINGS, WALKWAYS, TREES, LANDSCAPING, AND OTHER EXISTING FEATURES IN PRIVATE PROPERTY AREAS ADJACENT TO THE PROJECT LIMITS SHALL BE PROTECTED FROM DAMAGE DURING THE COURSE OF CONSTRUCTION, UNLESS OTHERWISE SPECIFIED BY THE OWNER. DAMAGED PROPERTY SHALL BE RESTORED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER WITHOUT ADDITIONAL COMPENSATION.
- ALL SAW CUTTING REQUIRED TO DEFINE PAVEMENT REMOVAL LIMITS OR TO CUT OTHER MATERIALS REQUIRED IN THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE CONSIDERED AS INCIDENTAL TO THE PAVING WORK.
- THE CONTRACTOR SHALL PROTECT PAVEMENTS, WALKS, CURBS, BURIED STRUCTURES, AND OTHER SUCH FEATURES WITHIN AND ADJACENT TO THE PAVEMENT WORK ZONE NOT DESIGNATED FOR REMOVAL. DAMAGED MATERIALS SHALL BE REPLACED AT THE SOLE EXPENSE OF THE CONTRACTOR.
- ALL TRENCHES SHALL BE EXCAVATED AT THE MINIMAL WIDTH REQUIRED TO INSTALL THE SEWER PIPE, AS INDICATED IN THE PLAN DETAILS. THE CONTRACTOR SHALL MAKE ALLOWANCES FOR ANY SHEETING, SHORING, BRACING, TRENCH BOXES, OR OTHER MEASURES REQUIRED TO INSTALL THE SEWER AND MAINTAIN MINIMAL TRENCH WIDTHS. THE CONTRACTOR SHALL MAKE PROVISIONS TO MANAGE GROUND WATER OR SEWER FLOW BY PUMPING OR FLUMING THROUGH THE WORK ZONE DURING THE COURSE OF CONSTRUCTION. ALL TRENCH SUPPORT OR WATER MANAGEMENT MEASURES REQUIRED SHALL BE CONSIDERED AS INCIDENTAL TO THE SEWER WORK.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND CONSTRUCT ALL TEMPORARY EARTH RETENTION TO COMPLY WITH APPLICABLE SAFETY AND ENGINEERING STANDARDS. THE CONTRACTOR SHALL FURNISH TO THE OWNER AND TO THE ENGINEER CALCULATIONS AND DESIGN FILES PREPARED BY A LICENSED STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO COMMENCING WITH THE EARTH RETENTION INSTALLATION.
- THE CONTRACTOR SHALL MANAGE THE PLACEMENT AND HANDLING OF ALL NEW MATERIALS AND WASTE MATERIALS GENERATED BY THE CONSTRUCTION OPERATIONS. CONSTRUCTION ACCESS POINTS TO THE SITE SHALL BE PROTECTED IN SUCH A WAY AS TO PREVENT TRACKING OF SOIL AND AGGREGATE ONTO PUBLIC THOROUGHFARES. AT THE END OF EACH WORK DAY THE CONTRACTOR SHALL PERFORM SITE MAINTENANCE REMOVING AND/OR RELOCATING MATERIALS WHICH INTERFERE WITH PUBLIC USE OF AREAS ADJACENT TO THE WORK ZONE, KEEPING SIDEWALKS, ROADWAYS, AND OTHER PASSAGE-WAYS FREE OF ACCUMULATIONS OF WATER, MUD, SPOIL, AND OTHER CONSTRUCTION DEBRIS.
- THE CONTRACTOR SHALL RECORD DIMENSIONS AND ELEVATIONS OF CONSTRUCTED UTILITIES AND MAINTAIN A COPY OF THE SUCH RECORDS ON MARKED DRAWINGS TO DOCUMENT CHANGES. THE RECORD DRAWINGS SHALL BE PROVIDED TO THE ENGINEER AT THE COMPLETION OF THE CONSTRUCTION WORK.

LANDSCAPING NOTES:

- ALL DISTURBED AREAS SHALL BE RESTORED WITH TOPSOIL AND SALT TOLERANT SOD. LIMITS FOR RESTORATION SHALL BE UP TO THE RIGHT OF WAY LIMITS UNLESS OTHERWISE NOTED.
- UNLESS SPECIFICALLY DIRECTED ON THE PLANS OR DIRECTED/ APPROVED BY THE ENGINEER, PAYMENT FOR SOD RESTORATION SHALL BE LIMITED TO 3 FEET ALONG REPLACED CURB, SIDEWALK, OR DRIVEWAY APRON. SODDING SHALL BE PLACED IN ACCORDANCE WITH THE SEASONAL SCHEDULE AS OUTLINED IN ARTICLE 252.04 OF THE IDOT STANDARD SPECIFICATION. SEASONAL PLANTING SCHEDULE FOR SEEDING SHALL BE OUTLINED IN ACCORDANCE WITH ARTICLE 250.07 OF THE IDOT STANDARD SCHEDULE.
- NUTRIENT ALLOWANCE FOR SODDING:

NITROGEN FERTILIZER NUTRIENTS	60 LB/ACRE
PHOSPHORUS FERTILIZER NUTRIENTS	60 LB/ACRE
POTASSIUM FERTILIZER NUTRIENTS	60 LB/ACRE

 NUTRIENT ALLOWANCE FOR SEEDING:

NITROGEN FERTILIZER NUTRIENTS	90 LB/ACRE
PHOSPHORUS FERTILIZER NUTRIENTS	90 LB/ACRE
POTASSIUM FERTILIZER NUTRIENTS	90 LB/ACRE
- ALL SODDING SHALL BE ROLLED AFTER PLACEMENT. SOD STAKING SHALL BE REQUIRED AT THE DISCRETION OF THE ENGINEER.
- PROVISIONS SHALL BE MADE FOR WATERING AND MAINTENANCE UNTIL THE PLANTING MATERIALS HAVE BECOME ESTABLISHED AS IN ARTICLE 253 OF THE IDOT STANDARD SPECIFICATION.
- ALL DISTURBED LANDSCAPE AREAS SHALL BE RESTORED WITH THE SPECIFIED LANDSCAPE MATERIALS IN ACCORDANCE WITH SEASONAL AND PROJECT PLANTING SCHEDULES. A MINIMUM OF FOUR INCHES OF TOPSOIL SHALL BE PLACED ON CLEAN PREPARED SOILS WHERE LANDSCAPE AREAS ARE TO BE ESTABLISHED. PROVISIONS SHALL BE MADE FOR WATERING AND MAINTENANCE UNTIL PLANTING MATERIALS HAVE BECOME ESTABLISHED AS OUTLINED IN SECTION 253 OF THE IDOT STANDARD SPECIFICATIONS.

PAVEMENT MARKING NOTES:

- LOCATION AND PLACEMENT OF ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THAT STIPULATED ON THE PLANS, AS OUTLINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2003 EDITION, REVISION 1), OR AS INDICATED BY THE ENGINEER
- THERMOPLASTIC PAVEMENT MARKING SHALL BE USED FOR BITUMINOUS SURFACES.
- ALL LINES TO BE WHITE UNLESS OTHERWISE NOTED.

MWRD GENERAL NOTES

- THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRDGC), LOCAL SEWER SYSTEMS SECTION, FIELD OFFICE SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF SEWER WORK TO COORDINATE INSPECTION SERVICES, (708-588-4055).
- THE PLAN ELEVATIONS ARE BASED UPON A USGS DATUM ELEVATION. THE CITY OF CHICAGO STANDARD DATUM IS 579.48 FEET LOWER THAN THE PLAN DATUM.
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE GROUND SURFACE OR STORM WATER DRAINAGE SYSTEM.
- ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN COMBINED SEWER AREAS) SHALL CONFORM TO FOLLOWING LISTED SPECIFICATIONS:

MATERIAL: POLY VINYL CHLORIDE (PVC)
CYLINDER SPECIFICATION: SDR 26, ASTM D-3034
JOINT SPECIFICATION: ASTM D-3212

MATERIAL: CEMENT LINED CAST DUCTILE IRON (DI)
CYLINDER SPECIFICATION: CLASS 52, ANSI A-21.51
JOINT SPECIFICATION: ANSI A-21.11

MATERIAL: REINFORCED CONCRETE PIPE (RCP)
CYLINDER SPECIFICATION: ASTM C-76
JOINT SPECIFICATION: ASTM C-443 OR ASTM D-361
- ALL SANITARY SEWER CONSTRUCTION, AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS, REQUIRES STONE BEDDING WITH A 1/4 INCH TO 1 INCH GRADATION WITH A MINIMUM BEDDING THICKNESS EQUAL TO ONE QUARTER OF THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN 4 INCHES NOR MORE THAN 8 INCHES IN THICKNESS. THE BEDDING MATERIAL SHALL ALSO BEING PLACED TO A DEPTH OF AT LEAST 12 INCHES ABOVE THE TOP OF THE SEWER PIPE WHEN USING PVC SEWER MATERIAL. ALL BEDDING MATERIAL SHALL CONSIST OF CRUSHED LIMESTONE, CONFORMING TO IDOT GRADATION CA-11 OR CA-13.
- NON-SHEAR TYPE FLEXIBLE TYPE COUPLINGS, FERNCO, BAND-SEAL, OR EQUAL SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR MATERIALS, AND TO JOIN NEW AND OLD PIPE OR SIMILAR COMPOSITION WHEN POINT REPAIRS ARE REQUIRED.
- WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR MANHOLE, THE CONNECTION CAN BE MADE BY (A) INSTALLING A NEW MANHOLE TO ACCEPT THE PROPOSED BRANCH SEWER; OR (B) BY CIRCULAR SAW-CUTTING THE SEWER MAIN WITH A PROPER TAPPING MACHINE AND THE INSTALLATION OF AN APPROVED HUB WYE SADDLE OR HUB TEE SADDLE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION; OR (C) BY REMOVING AN ENTIRE SECTION OF PIPE AND INSTALLING A MANUFACTURED WYE OR TEE FITTING. WHEN REMOVING THE PIPE SECTION A PIPE CUTTER, SHALL BE USED TO NEATLY AND ACCURATELY CUT OUT A DESIRED LENGTH OF PIPE FOR INSERTION OF THE PROPER FITTING. BAND-SEAL OR SIMILAR FLEXIBLE COUPLINGS ARE TO BE USED TO FASTEN AND SECURE THE INSERTED FITTING AND PIPE TO THE EXISTING SEWER.
- WHEREVER A SANITARY OR COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN THE SEWERS AND WATER MAINS SHALL BE MAINTAINED UNLESS THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM OF 18 INCHES VERTICAL SEPARATION; OR THE SEWER IS LAID SO THAT THE WATERMAIN IS LOCATED IN THE SAME TRENCH ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18 INCH VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATERMAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS.
- ALL EXISTING SEPTIC TANKS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
- ALL SANITARY MANHOLES, AND ALSO STORM MANHOLES IN COMBINED SEWER AREAS, SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES AND SHALL BE CAST IN PLACE OR PRECAST REINFORCED CONCRETE. ALL SANITARY SEWER PIPE CONNECTIONS TO MANHOLES SHALL BE CONSTRUCTED USING RESILIENT CONNECTORS OR COUPLINGS CONFORMING TO ASTM C923 TO MAINTAIN A WATERTIGHT SEAL.
- ALL SEWER CONSTRUCTION SHALL CONFORM TO THE PLANS, OR REVISED PLANS, AS APPROVED UNDER THE PERMIT ISSUED BY THE MWRDGC.
- THE MAXIMUM ALLOWABLE RATE OF INFILTRATION FOR SANITARY SEWERS SHALL NOT EXCEED 100 HUNDRED GALLONS PER TWENTY-FOUR HOURS, PER MILE, PER INCH-DIAMETER OF PIPE.
- ALL SANITARY SEWERS SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MWRD.
- ABANDONED PIPES OR CONDUITS, SHALL BE REMOVED AND/OR SECURELY PLUGGED WITH CONCRETE EXTENDING A MINIMUM LENGTH OF 2 FEET.

PLAN	DESIGNED BY	DATE
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NOTE BOOK NO.	REVISIONS PLOTTED	
	ALIGNMENT CHECKED	
	FIELD FILE NAME	

PROFILE	DESIGNED BY	DATE
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NOTE BOOK NO.	REVISIONS PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**BLUFF AVENUE IMPROVEMENTS
 STAGE 2**

GENERAL NOTES

SCALE: DRAWN BY H&A
 DATE 02/27/2009 CHECKED BY PFFH