

GENERAL NOTES:

- ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE EXACT LOCATION AND DEPTH OF UTILITIES, INCLUDING ANY EXPLORATORY EXCAVATION THAT MAY BE NECESSARY. FOR UTILITY INFORMATION CALL J.U.L.I.E. 1-800-892-0123.
- ALL WATER MAIN AND RELATED CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER & SEWER CONSTRUCTION IN ILLINOIS", CURRENT EDITION.
- ANY ROAD, DRIVEWAY, SIDEWALK AND RELATED REPLACEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL STATE AND LOCAL ORDINANCES AND SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO INITIATING CONSTRUCTION. WATER TAP AND WATER SERVICE LINE PERMITS ARE NOT REQUIRED FOR THIS PROJECT. HOWEVER, ALL SERVICE LINES WILL NEED TO BE INSTALLED BY A LICENSED PLUMBER AND INSPECTED BY THE CITY PLUMBING INSPECTOR. A 24 HOUR ADVANCE NOTICE SHALL BE REQUIRED FOR INSPECTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PIPING MEASUREMENTS AND LAYOUT, AND SHALL VERIFY COMPATIBILITY OF NEW PIPING WITH EXISTING PIPING AT FLANGED, MECHANICAL JOINT, PUSH-ON OR THREADED CONNECTIONS, PROVIDING SUITABLE ADAPTORS AS MAY BE REQUIRED. COST OF ANY AND ALL SUCH ADAPTORS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.
- LOCATION OF RIGHT-OF-WAY IS ONLY APPROXIMATE.
- WHEN EXCAVATING UNDER EXISTING UTILITIES, THE CONTRACTOR SHALL SUPPORT THE EXISTING UTILITY UNTIL BACKFILL AND COMPACTED ARE COMPLETE. BACKFILL AT THESE CROSSINGS SHALL CONSIST OF SELECTED GRANULAR MATERIALS TO ONE FOOT ABOVE THE UTILITY OR IF UNDER PAVEMENTS TO THE BASE OF THE PAVEMENT. THE LOCATION OF TELEVISION CABLE IS NOT SHOWN ON THE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION AND REPLACEMENT OF ANY CABLE DAMAGED DURING CONSTRUCTION. THESE COSTS SHALL BE INCIDENTAL TO THE CONTRACT.
- ALL FENCES, DRAIN TILES, WATER MAINS, DRAINAGE DITCHES OR OTHER STRUCTURES WHICH MAY BE SEVERED OR DAMAGED, REMOVED, OR INTERFERED WITH DURING CONSTRUCTION MUST BE REPLACED OR REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST.
- PUMPING GROUND WATER AND/OR STORM WATER FROM OPEN TRENCHES IS CONSIDERED INCIDENTAL TO CONSTRUCTION. COST OF ALL PUMPING MUST BE INCLUDED WITH THE COST OF THE PIPE.
- THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS EXCAVATION IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- THE CONTRACTOR SHALL KEEP THE AREA OF CONSTRUCTION FREE OF DEBRIS AND OBJECTIONABLE MATERIALS DURING CONSTRUCTION.
- ALL AREAS DISTURBED DURING CONSTRUCTION, AND NOT PAVED OR CULTIVATED, SHALL BE SEEDED IN ACCORDANCE WITH THE SPECIFICATIONS. ALL EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL, 1995 EDITION.
- WATER USED BY THE CONTRACTOR TO COMPLETE THE PROPOSED WORK SHALL BE PROVIDED BY THE CITY OF GALESBURG WATER DEPARTMENT. THE CONTRACTOR SHALL COORDINATE ALL WATER USAGE WITH THE CITY'S WATER SUPERINTENDENT. ANY COSTS FOR CITY SUPPLIED WATER SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- WATER MAIN PIPE SHALL BE P.V.C. PRESSURE PIPE IN ACCORDANCE WITH AWWA C900 WITH A DR RATING OF 18, OR LESS, WITH INTEGRAL BELL GASKETED JOINTS MEETING THE REQUIREMENTS OF ASTM F477 AND ASTM D3139.
- WATER MAIN SHALL HAVE 4'-6" MINIMUM COVER FROM FINISH GRADE TO TOP OF PIPE.
- WATER MAIN SHALL BE PRESSURE TESTED AND DISINFECTED IN ACCORDANCE WITH THE SPECIFICATIONS LISTED ON THE PLANS, THE SPECIAL PROVISIONS AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", CURRENT EDITION.
- TRAFFIC CONTROL SHALL BE AS LISTED IN THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS INCLUDED IN THE CONTRACT.
- UNLESS OTHERWISE SHOWN ON THE PLANS, QUANTITIES FOR PAVEMENT REMOVAL, P.C.C. BASE COURSE, 8" AND TRENCH BACKFILL WILL BE BASED ON TABLE 1 (STD. DWG. NO. 2) OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION". ANY BACKFILL OR REPLACEMENT NECESSARY IN EXCESS OF THE QUANTITIES DETERMINED BY TABLE 1 SHALL BE CONSIDERED INCIDENTAL.
- ALL VALVE BOXES SHALL BE CONSTRUCTED SO THAT RIMS ARE FLUSH WITH FINISHED PAVEMENT GRADE.
- ANY PROPERTY DAMAGE OUTSIDE OF EASEMENTS AND RIGHT-OF-WAY LINES SHALL BE REPLACED TO ORIGINAL OR BETTER CONDITION BY THE CONTRACTOR AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL FURNISH AND INSTALL A #12 THIN, SOLID AND INSULATED TRACER WIRE FROM VALVE BOX TO VALVE BOX. THE WIRE SHALL BE BROUGHT UP TO THE INSIDE TOP OF THE VALVE BOX AND SECURELY FASTENED WHERE IT WILL BE READILY ACCESSIBLE FOR LOCATING EQUIPMENT BUT WILL NOT HINDER VALVE OPERATION.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL SERVICES AT THE TIME OF CONSTRUCTION.
- SHOULD AN EXISTING SANITARY SEWER SERVICE BE FOUND IN CONFLICT WITH THE PROPOSED WATER MAIN, THE WATER MAIN IS TO BE LOWERED TO PROVIDE A MINIMUM OF 18" OF SEPARATION AND ENCASED A MINIMUM OF 10' ON EITHER SIDE OF THE SEWER SERVICE. ANY ELBOWS, FITTINGS, RESTRAINED JOINTS, ETC., NECESSARY FOR THE VERTICAL ADJUSTMENT WILL NOT BE MEASURED SEPARATELY FOR PAYMENT AND WILL BE CONSIDERED INCIDENTAL TO THE WATER MAIN ENCASEMENT PAY ITEM.
- NUMEROUS EXISTING WATER SERVICES WILL BE DISCOVERED TO BE GALVANIZED OR LEAD PIPE. THE CONTRACTOR WILL BE REQUIRED TO REPLACE THESE SERVICES FROM THE GALVANIZED OR NEW CURB STOP TO THE EXISTING METER. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING THE WORK WITH THE ENGINEER AND PROPERTY OWNER. THIS WORK WILL BE PAID FOR AS GALVANIZED OR LEAD SERVICE REPLACEMENT ON A PER FOOT BASIS. A NOMINAL QUANTITY OF 50 FEET PER SERVICE CONNECTION HAS BEEN PROVIDED IN THE CONTRACT. PAYMENT WILL BE MADE ON THE ACTUAL FOOTAGE INSTALLED. REFER TO SPECIAL PROVISIONS.
- ALL LEAD OR GALVANIZED SERVICE LINE REPLACEMENTS SHALL BE PULLED WITH NO OPEN EXCAVATION OFF THE R.O.W. SHOULD PROBLEMS OCCUR, THE REPLACEMENT WILL BE PERFORMED AS DIRECTED BY THE ENGINEER. OFF R.O.W. EXCAVATION, RESTORATIONS, SEEDING, ETC., WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- THE GALVANIZED OR LEAD SERVICE THAT GETS REPLACED TO THE EXISTING METER IS TO HAVE A NEW METER INSTALLED WITH THE ISOLATION VALVES ON BOTH SIDES OF THE NEW METER. THE NEW METER AND VALVES WILL BE FURNISHED BY THE CITY. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE INSTALLATION OF THE METER AND VALVES. ANY ADAPTORS, REDUCERS OR FITTINGS THAT MAY BE NECESSARY FOR THE SERVICE REPLACEMENT OR METER INSTALLATION WILL BE INCIDENTAL TO THE LEAD OR GALVANIZED WATER SERVICE REPLACEMENT OR METER CONNECTION PAY ITEMS, AS THE CASE MAY BE. THE OLD METERS ARE TO BE TURNED OVER TO THE CITY WATER DEPARTMENT. EXISTING METERS MAY BE REUSED AS DETERMINED BY THE CITY WATER DEPARTMENT.
- A NOMINAL QUANTITY OF 20 SQUARE FEET OF SIDEWALK REPLACEMENT HAS BEEN PROVIDED AT EACH NEW CURB STOP INSTALLATION. THE EXISTING SIDEWALK IS TO BE REMOVED AND REPLACED ONLY WHEN NECESSARY TO MAKE THE CONNECTION TO THE EXISTING SERVICE PIPE AND WHEN APPROVED BY THE ENGINEER.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY TO HAVE POLES STABILIZED DURING CONSTRUCTION AS NECESSARY. ALL UTILITY COMPANY COORDINATION AND ALL UTILITY RELOCATIONS SHALL BE INCIDENTAL TO THE CONTRACT.

GENERAL NOTES (CONTINUED):

- DURING THE ROAD CLOSURE FOR EACH STAGE, SIDEWALK ACCESS FOR THE RESIDENTS WILL BE ESSENTIAL. ANY SIDEWALK REMOVED FOR WATER MAIN WORK SHALL HAVE TEMPORARY AGGREGATE SURFACE PLACED UPON COMPLETION OF THE WORK OR AT THE END OF THE DAY, WHICHEVER OCCURS FIRST. PERMANENT SURFACE RESTORATION IS TO BE COMPLETED AS SOON AS PRACTICAL. ALL SIDEWALKS ARE TO BE UNOBSTRUCTED AND IN A USEABLE CONDITION AT THE END OF THE WORK DAY. THE TEMPORARY AGGREGATE SURFACE WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- VALVE REMOVAL, VALVE BOX REMOVAL AND PLUGGING OF THE EXISTING WATER MAIN WILL BE CONSIDERED INCIDENTAL TO CONNECT TO EXISTING WATER MAIN OR FIRE HYDRANTS TO BE REMOVED, AS THE CASE MAY BE.
- SANITARY SEWER SERVICE INFORMATION IS BASED ON TELEVISION RECORDS OF THE EXISTING SEWER MAIN. FROM THE RECORDS, IT IS KNOWN THAT THERE IS AN OPEN SERVICE AT THE MAIN. IT MAY, OR MAY NOT, BE LIVE AND SERVICES MAY, OR MAY NOT, RUN AS SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THE SERVICES AND ADJUST THE DEPTH OF THE PROPOSED WATER MAIN AND ENCASE ACCORDINGLY.
- SERVICE CONNECTION AND CURB STOP LOCATIONS ARE SHOWN FOR QUANTITY PURPOSES ONLY. ACTUAL LOCATIONS ARE TO BE COORDINATED WITH THE RESIDENT ENGINEER, WATER DEPARTMENT AND THE CITY PLUMBING INSPECTOR TO BEST SUIT ACTUAL FIELD CONDITIONS AND MAINTAINING SEPARATION FROM SEWERS.
- EXISTING SERVICES THAT THE TYPE OF PIPE IS QUESTIONABLE OR UNKNOWN, HAVE BEEN ASSUMED TO BE GALVANIZED FOR QUANTITY PURPOSES.
- WHEN THE WATER SERVICE IS CONNECTED TO THE NEW CURB STOP, THE EXISTING SERVICE IS TO BE CRIMPED OR PLUGGED AND THE EXISTING CURB STOP BOX IS TO BE REMOVED.
- THE WATER SERVICE CONNECTION AND CURB STOPS DESIGNATED FOR FUTURE CONNECTION ARE TO BE INSTALLED WITHOUT A CURB STOP BOX. THE CURB STOP BOX IS TO BE FURNISHED AND DELIVERED TO THE CITY WATER DEPARTMENT.
- THE CONTRACTOR MUST PERFORM ALL WORK REQUIRING A DISRUPTION IN WATER SERVICE SO THAT THE OUTAGE IS LIMITED TO A MAXIMUM OF FOUR (4) HOURS.
- FOR THE RESIDENTS THAT THE LEAD OR GALVANIZED WATER SERVICE IS BEING REPLACED, THE CURB STOP AND BOX IS TO BE LOCATED 4.0' FROM THE STREET SIDE OF THE SIDEWALK.

SUMMARY OF QUANTITIES:

CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
20800150	TRENCH BACKFILL	CU. YD.	2131
35300300	P.C.C. BASE COURSE, 8"	SQ. YD.	129
40600625	LEVLING BINDER, MM, N50	TON	7.3
40603335	HMA S.C., "D", N50	TON	10.7
44000100	PAVEMENT REMOVAL	SQ. YD.	129
42400100	P.C.C. SIDEWALK, 4"	SQ. FT.	1680
44000600	SIDEWALK REMOVAL	SQ. FT.	1680
56100600	PVC WATER MAIN, 6"	FT.	313
56100700	PVC WATER MAIN, 8"	FT.	2631
56104900	WATER VALVES, 6"	EA.	12
56105000	WATER VALVES, 8"	EA.	6
56400500	FIRE HYDRANTS TO BE REMOVED	EA.	7
56400600	FIRE HYDRANTS	EA.	7
X0323171	6" I.I. ELBOW, 45°	EA.	1
#4001773	6" I.I. ELBOW, 90°	EA.	7
X0325185	6" 6" D.I. TEE	EA.	1
X0325186	8" 6" D.I. TEE	EA.	14
#4001774	SERVICE CONNECTION & CURB STOP, SHORT SIDE, TY. 1	EA.	46
#4001775	SERVICE CONNECTION & CURB STOP, LONG SIDE, TY. 1	EA.	9
#4001776	SERVICE CONNECTION & CURB STOP, LONG SIDE, TY. 2	EA.	30
X0469600	CONNECTION TO EXISTING WATER MAIN	EA.	5
XX003345	WATER MAIN ENCASEMENT	FT.	665
#4001777	LEAD WATER SERVICE REPLACEMENT	FT.	1650
#4001778	GALVANIZED WATER SERVICE REPLACEMENT	FT.	900
#4001779	METER CONNECTION	EA.	75
#4001786	6"X1" TAPPING SLEEVE & VALVE	EA.	1

REQUIRED SEQUENCE FOR STAGED WATER MAIN CONSTRUCTION:

- WATER MAIN CONSTRUCTION SHALL NOT COMMENCE UNTIL THE EXISTING BRICK SURFACE HAS BEEN REMOVED AND SALVAGED.
- INSTALL THE NEW WATER MAIN. SERVICE SADDLES AND CORPORATION STOPS MAY BE INSTALLED WITH THE MAIN. THE MAIN SHALL NOT BE TAPPED AT THIS TIME.
- MAKE CONNECTION(S) REQUIRED TO ENERGIZE THE NEW MAIN, IF NECESSARY.
- FLUSH THE NEW SEGMENT OF WATER MAIN TO REMOVE ANY TRAPPED AIR. CONDUCT THE REQUIRED PRESSURE AND LEAKAGE TESTS UNTIL SATISFACTORY RESULTS ARE OBTAINED.
- CHLORINATE THE NEW WATER MAIN TO A RESIDUAL LEVEL OF NOT LESS THAN 50mg/l.
- AFTER 24 HOURS, THE WATER IN THE MAIN IS TO BE TESTED AND MUST HAVE A MINIMUM RESIDUAL OF 25mg/l.
- THE TEST SEGMENT IS THEN TO BE FLUSHED UNTIL THE CHLORINE LEVELS ARE NOT IN EXCESS OF THAT IN THE DISTRIBUTION SYSTEM. ONLY THEN CAN THE REQUIRED BACTERIOLOGICAL SAMPLES BE TAKEN.
- AFTER SATISFACTORY BACTERIOLOGICAL TESTING, THE SERVICE CONNECTIONS AND CURB STOPS ARE TO BE INSTALLED AND THE NEW MAIN TAPPED. IF THE EXISTING SERVICE IS TO REMAIN (COPPER OR PLASTIC PIPE), IT MAY BE CONNECTED AT THIS TIME.
- THE INSTALLATION OF THE SERVICE CONNECTIONS AND CURB STOPS IS TO PROGRESS FROM SOUTH TO NORTH REGARDLESS OF WHICH SIDE THEY ARE ON.
- ONCE ALL SERVICE CONNECTIONS AND CURB STOPS ARE INSTALLED, REPLACE THE GALVANIZED OR LEAD PIPE SERVICES.
- MAKE SIDE STREET CONNECTIONS TO THE NEW MAIN, IF ANY, AND MAKE ANY DISCONNECTIONS NECESSARY TO RETIRE IN PLACE THE OLD WATER MAIN, INCLUDING ANY VALVE OR VALVE BOX OR HYDRANT REMOVALS AND PLUGGING OF EXISTING PIPES.
- REPEAT THE SEQUENCE FOR EACH STAGE.

RTE. NO.	SEC.	COUNT.	TOTAL SHEETS	SHEET NO.
F.A.U.		KM	50	43
6793				

*06-00447-12-PV
TE-0004(09) 89 456



I HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS, AND THAT THESE ENGINEERING DOCUMENTS WERE PREPARED UNDER MY DIRECT PERSONAL SUPERVISION. THIS CERTIFICATION APPLIES TO SHEETS NUMBERED 43 THROUGH 50 OF THIS PLANSET.

DATED AT GALESBURG, ILLINOIS, THIS 15TH DAY OF DECEMBER, 2006.

BY *Stephen M. Bruner*
STEPHEN M. BRUNER
ILLINOIS PROFESSIONAL ENGINEER NO. 40386
LICENSE RENEWAL DATE: 11/30/2007

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GENERAL NOTES
 WATER MAIN REPLACEMENT FOR
 NORTH BROAD STREET BRICK RECONSTRUCTION
 LOSEY STREET TO FREMONT STREET
 GALESBURG, ILLINOIS

JOB NO.
 260198
 SHEET NO.
43
 OF 50 SHEETS
 12/15/2006