



FLOW DIVERSION MANAGEMENT NOTES

1. CONTRACTOR SHALL SUBMIT A FLOW DIVERSION PLAN FOR APPROVAL.
2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE BYPASS EQUIPMENT, FORCE MAINS, AND OTHER NECESSARY APPURTENANCES IN ORDER TO MAINTAIN RELIABLE SANITARY SEWER SERVICE IN ALL SANITARY SEWER LINES AS REQUIRED FOR CONSTRUCTION.
3. THE CONTRACTOR SHALL HAVE BACKUP PUMP(S), FORCE MAIN(S), AND APPURTENANCES READY TO DEPLOY IMMEDIATELY. APPURTENANCES AND DISCHARGE POINTS SHALL BE APPROVED BY THE DISTRICT.
4. ANY SPILLAGE, BACKUPS AND/OR OVERFLOWS, ETC. AS THE RESULT OF INADEQUATE EQUIPMENT ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL DEMONSTRATE THAT THE PUMPING SYSTEM IS IN GOOD WORKING ORDER AND IS SUFFICIENTLY SIZED TO SUCCESSFULLY HANDLE FLOWS BY PERFORMING A TEST RUN FOR A PERIOD OF 24 HOURS PRIOR TO BEGINNING THE WORK. TESTING IS NOT TO BE SCHEDULED DURING WEEKEND HOURS.
6. THE CONTRACTOR SHALL BE REQUIRED TO HAVE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO COMPLETE THE REPAIR OR REPLACEMENT ON THE JOB SITE PRIOR TO ISOLATING THE SEWER MANHOLE OR LINE SEGMENT AND BEGINNING FLOW DIVERSION OPERATIONS.
7. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE IN WRITING A SEQUENCE OF FLOW DIVERSION FOR REVIEW AND APPROVAL BY THE DISTRICT. THE CONTRACTOR SHALL ALSO PROVIDE THE DISTRICT A SKETCH SHOWING THE LOCATION OF FLOW DIVERSION EQUIPMENT FOR EACH LINE SEGMENT(S) AROUND WHICH FLOWS ARE DIVERTED.
8. ONCE NEW SEWER COLLECTION SYSTEM HAS BEEN COMPLETED, TESTED AND ACCEPTED, THE CONTRACTOR SHALL CEASE FLOW DIVERSION OPERATIONS AND RETURN FLOWS TO THE NEW AND/OR EXISTING SEWER WHEN DIRECTED BY THE DISTRICT.
9. ALL PIPING(S), JOINTS AND ACCESSORIES OF THE FLOW DIVERSION SYSTEM SHALL BE DESIGNED TO WITHSTAND AT LEAST TWICE THE MAXIMUM SYSTEM PRESSURE, OR A MINIMUM OF 50 PSI WHICHEVER IS GREATER.
10. DURING FLOW DIVERSION, NO SEWAGE SHALL BE LEAKED, DUMPED, OR SPILLED IN OR UNTO, ANY AREA OUTSIDE OF THE EXISTING SANITARY SEWER SYSTEM AND TEMPORARY BY-PASS SYSTEM. WHEN FLOW DIVERSION OPERATIONS ARE COMPLETE, ALL FLOW DIVERSION SHALL BE DRAINED INTO THE SANITARY SEWER PRIOR TO DISASSEMBLY.
11. THE CONTRACTOR SHALL PLUG OFF AND PUMP DOWN THE SEWER MANHOLE OR LINE SEGMENT IN THE IMMEDIATE WORK AREA AND SHALL MAINTAIN THE SANITARY SEWER SYSTEM SO THAT SURCHARGING DOES NOT OCCUR. WHERE WORK REQUIRES THE LINE TO BE BLOCKED BEYOND WORKING HOURS, CONTRACTOR SHALL OPERATE FLOW DIVERSION AND MAN THE SYSTEM 24 HOURS A DAY.
12. THE CONTRACTOR SHALL ENSURE THAT NO DAMAGE WILL BE CAUSED TO PRIVATE PROPERTY AS A RESULT OF FLOW DIVERSION OPERATIONS. INGRESS AND EGRESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. RAMPS, STEEL PLATES OR OTHER METHODS SHALL BE DEPLOYED BY THE CONTRACTOR TO FACILITATE TRAFFIC OVER SURFACE PIPING. HIGH TRAFFIC COMMERCIAL PROPERTIES MAY REQUIRE ALTERNATE METHODS.
13. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DISTRICT SHOULD A SURCHARGE OCCUR THAT RESULTS IN AN OVERFLOW OF SEWAGE. IF THE CONTRACTOR IS UNABLE TO REMEDY THE SITUATION, THEN HE SHOULD SUSPEND OR TERMINATE THE WORK UNTIL SUCH TIME AS THE OVERFLOWS HAVE BEEN CONTROLLED. SHOULD SUCH SURCHARGE DAMAGE THE MATERIALS AND/OR EQUIPMENT THAT ARE USED ON THE JOB AND/OR ADJACENT PROPERTY, IT SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
14. IN THE EVENT THAT SEWAGE ACCIDENTALLY DRAINS INTO THE DRAINAGE SYSTEM OR STREET, THE CONTRACTOR SHALL IMMEDIATELY STOP THE OVERFLOW, NOTIFY THE DISTRICT, AND TAKE THE NECESSARY ACTION TO CLEAN UP AND DISINFECT THE SPILLAGE TO THE SATISFACTION OF THE DISTRICT. IF SEWAGE IS SPILLED ONTO PUBLIC OR PRIVATE PROPERTY, THE CONTRACTOR SHALL WASH DOWN, CLEAN UP AND DISINFECT THE SPILLAGE TO THE SATISFACTION OF THE DISTRICT. REMOVE AND REPLACE SOIL AS NEEDED.
15. FORCE MAIN PIPING MAY BE LAID INSIDE OF STORM DRAINAGE PIPES TO AVOID SURFACE INTERFERENCE WITH VEHICULAR OR PEDESTRIAN TRAFFIC. FLOWS SHALL NOT BE ALLOWED TO SPILL FROM SAID FORCE MAINS INTO SAID DRAINAGE PIPES. THE USE OF EXISTING STORM DRAIN SYSTEMS SHALL BE APPROVED BY THE OWNER. FORCE MAINS LAID IN STORM SEWERS SHALL BE PRESSURE PIPE AND FITTINGS.
16. THE CONTRACTOR SHALL NOT INTENTIONALLY DAMAGE OR REMOVE PORTIONS OF EXISTING STORM SEWER SYSTEM STRUCTURES OR SANITARY SEWER STRUCTURES FOR THE PURPOSE OF INSTALLING THE FLOW DIVERSION SYSTEM WITHOUT SPECIFIC APPROVAL FROM THE DISTRICT. IF A STRUCTURE IS DAMAGED, IT SHALL BE RECONSTRUCTED OR REPLACED TO THE SATISFACTION OF THE DISTRICT AT NO ADDITIONAL COST TO THE OWNER.
17. THE CITY OF MCKINNEY OR THE OWNER SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO THE FLOW DIVERSION SYSTEM SUSTAINED BY THE CONTRACTOR DIRECTLY OR INDIRECTLY AS RESULT OF STORM WATER RUNOFF WITHIN STREETS, DITCHES AND/OR STORM SEWER SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE THAT RESULTS DIRECTLY OR INDIRECTLY FROM THE INTERFERENCE OF STORM WATER RUNOFF TO FLOW DIVERSION EQUIPMENT, PIPING AND/OR APPURTENANCES. THE CONTRACTOR SHALL ESTABLISH ADEQUATE FLOW DIVERSION AS REQUIRED REGARDLESS OF THE FLOW CONDITIONS.
18. CONTRACTOR WILL BE REQUIRED TO PROVIDE TEMPORARY VEHICULAR ACCESS ACROSS ANY BYPASS PIPING CROSSING PUBLIC R.O.W. (NO SEPARATE PAY ITEM)
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBSERVING WEATHER FORECASTS AND NOTIFYING DISTRICT OF ANY SEVERE WEATHER POSSIBILITIES DURING CONSTRUCTION. IN THE EVENT OF INCLEMENT WEATHER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUSPENDING ALL BYPASS ACTIVITIES, INCLUDING THE COST OF ANY MOBILIZATION, DE-MOBILIZATION, AND RE-MOBILIZATION. EXISTING SYSTEM SHALL BE PUT BACK TO ORIGINAL STATE IF NEEDED FOR RAIN EVENT.
20. IN THE EVENT OF A SEWAGE SPILL, OWNER SHALL BE ENTITLED TO WITHHOLD PAYMENT FOR ANY FUTURE TCEQ OR EPA FINES. PAYMENT SHALL BE WITHHELD UNTIL THE GOVERNMENTAL AGENCY RENDERS A DECISION REGARDING A FINE.

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No.	Revision	By	Date



**North Texas Municipal
 Water District
 Wilson Creek Interceptor
 Improvements, Phase 2**

BYPASS PUMPING

DATE:	JANUARY 2015
DESIGN:	MAS
DRAWN:	LMB
CHECKED:	RSP
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