



WASTEWATER RECLAMATION

GENERAL SEWER NOTES (UTILITY COORDINATION SUBMITTALS)

1. ALL DESIGN STANDARDS, MATERIALS AND WORKMANSHIP FOR PUBLIC SANITARY SEWERS SHALL BE IN ACCORDANCE WITH THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (PCRWRD) ENGINEERING DESIGN STANDARDS 2012 (EDS 2012) AND THE PCRWRD STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012 (SSDC 2012). SAID DOCUMENTS ARE AVAILABLE THROUGH THE PCRWRD WEB PAGE: [DESIGN STANDARDS, SPECIFICATIONS AND DETAILS](#).
2. THE CONTRACTOR SHALL CONTACT “ARIZONA 811” (DIAL 811 OR 1-800-782-5348) A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO COMMENCING WITH ANY EXCAVATION. THE CONTRACTOR SHALL KEEP ALL UNDERGROUND FACILITY LOCATION REQUESTS UP-TO-DATE AND COMPLY WITH APPLICABLE ARIZONA REVISED STATUTES (A.R.S.), TITLE 40, CHAPTER 1, ARTICLE 6.3, SECTION 40-360.22. CONCERNS REGARDING THE ACCURACY BETWEEN THE UNDERGROUND FACILITY MARKINGS AND THE PROJECT PLANS SHALL BE REPORTED IMMEDIATELY TO THE DESIGN ENGINEER.
3. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SANITARY SEWER MANHOLES AT ALL TIMES.
4. THE CONTRACTOR SHALL FIELD-VERIFY EXISTING SEWER LINE ELEVATIONS AND ALIGNMENTS PRIOR TO CONSTRUCTION AND IMPLEMENTATION. VERIFICATION MAY REQUIRE POTHOLING.
5. HOUSE OR BUSINESS CONNECTION SEWERS (HCS OR BCS) ARE NOT OWNED OR MAINTAINED BY THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (PCRWRD). HCS/BCS LINES THAT WERE CONSTRUCTED PRIOR TO JANUARY 2006 ARE NOT REQUIRED TO BE MARKED AND LOCATED BY PCRWRD. ANY HCS/BCS LINES ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED, REPAIRED, OR REROUTED, AS THE SITUATION DICTATES PER THE PCRWRD STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012, STANDARD DETAIL RWRD-400 AND AT NO EXPENSE TO THE HCS/BCS OWNER.
6. IMMEDIATELY REPORT ANY OF THE FOLLOWING TO EITHER PCRWRD FIELD ENGINEERING (520-740-2651) OR PCRWRD CONVEYANCE DIVISION (520-724-3400): ANY RELEASE OF SEWAGE, ANY DAMAGE TO THE PUBLIC SANITARY SEWER SYSTEM, OR THE DROPPING OF DEBRIS INTO THE PUBLIC SANITARY SEWER SYSTEM. ON WEEKENDS, HOLIDAYS, OR BETWEEN 5:00 P.M. AND 7:00 A.M., IMMEDIATELY CALL PCRWRD OPERATIONS CONTROL CENTER AT (520-724-6048) AND REQUEST A PCRWRD REPRESENTATIVE TO BE DISPATCHED TO THE SITE. TAKE IMMEDIATE ACTION TO CONTAIN THE SANITARY SEWAGE OVERFLOW (SSO) FROM THE SEWER SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS TO REPAIR THE SYSTEM, FOR ALL EXPENSES TO MITIGATE THE RELEASE AND TO DISINFECT THE RELEASE AREAS AND FOR ANY REGULATORY PENALTIES LEVIED ON PCRWRD BECAUSE THE SSO ENTERED A NATURAL DRAINAGEWAY OR STORM WATER DRAINAGE SYSTEM. THE CONTRACTOR SHALL REPAIR ALL DAMAGE AS DIRECTED AND APPROVED BY PCRWRD.



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7. **[Insert brief description of work and location of concern such as DIRECTIONAL DRILLING ACTIVITIES ACROSS THE EXISTING PUBLIC SEWER LINES, or CAISSON DRILLING ACTIVITIES FOR POLE #4, etc.] SHALL NOT COMMENCE UNTIL: (A) CONTRACTOR HAS OBTAINED A PUBLIC SEWER OBSERVATION PERMIT FROM PCRWRD (520-724-6369) AND (B) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT INSPECTOR IS SCHEDULED, AT LEAST THREE (3) FULL WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR MUST PROVIDE THE PCRWRD MANHOLE NUMBERS WHERE THIS WORK IS LOCATED AND A DESCRIPTION OF THE CONSTRUCTION.**
8. **CONTRACTOR SHALL PROVIDE A PRE- AND POST- CCTV VIDEO OF SEWER LINE REACHES BETWEEN MH XXX-XX TO MH XXXX-XX. DELIVERABLES SHALL INCLUDE A DVD WITH CCTV FILES FOR GRANITE XP VIEWER VERSION 4.6.1, TO BE FURNISHED TO THE RWRD FIELD ENGINEERING MANAGER AT (520-740-2651).**
9. **SEWER CONSTRUCTION SHALL NOT COMMENCE UNTIL: (A) PIMA COUNTY DEPARTMENT OF ENVIRONMENTAL QUALITY (PDEQ) HAS ISSUED A CERTIFICATE OF "CONSTRUCTION AUTHORIZATION" FOR THIS PROJECT, (B) THE CONTRACTOR HAS OBTAINED A PUBLIC SEWER CONSTRUCTION PERMIT FROM PCRWRD (520-724-6369), (C) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT INSPECTOR IS SCHEDULED, AT LEAST THREE (3) FULL WORKING DAYS PRIOR TO THE START OF SEWER CONSTRUCTION. FLOW MANAGEMENT PLANS SHALL BE SUBMITTED TO FIELD ENGINEERING THIRTY (30) DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.**
10. **MODIFICATION OR ADJUSTMENT TO EXISTING PIMA COUNTY SEWER FACILITIES SHALL NOT COMMENCE UNTIL: (A) CONTRACTOR HAS OBTAINED A PUBLIC SEWER CONSTRUCTION PERMIT FROM PCRWRD (520-724-6369) AND (B) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT INSPECTOR IS SCHEDULED, AT LEAST THREE (3) FULL WORKING DAYS PRIOR TO THE START OF SEWER CONSTRUCTION. FLOW MANAGEMENT PLANS SHALL BE SUBMITTED TO FIELD ENGINEERING THIRTY (30) DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.**
11. **IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST OR RECONSTRUCT ALL SANITARY SEWER MANHOLES TO FINISHED GRADE. ALL FRAME AND COVER ADJUSTMENTS SHALL BE IN ACCORDANCE WITH PCRWRD STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012, STANDARD DETAILS RWRD-211, -212, -304 OR -305, AS APPLICABLE. THE CONTRACTOR SHALL PROTECT THE BENCH AND FLOW CHANNELS WITH A COVER PER RWRD-306. PRIOR TO REINSTALLATION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FRAME AND COVER ARE FREE OF ALL ATTACHED MATERIALS (ASPHALT, CONCRETE, ETC.) AND THAT ALL VENT HOLES ARE OPEN AND CLEAR OF OBSTRUCTIONS, AS APPROVED BY THE FIELD INSPECTOR. EXISTING FRAMES AND COVERS THAT ARE DAMAGED OR CANNOT BE COMPLETELY CLEANED SHALL BE REPLACED WITH A NEW AND EQUIVALENT FRAME AND COVER IN ACCORDANCE**



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STANDARD DETAILS RWRD-213, -214, -215, -216, -217 OR -218. COSTS ASSOCIATED WITH EXISTING FRAMES AND COVERS THAT ARE LOST OR DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

12. IN ACCORDANCE WITH SSDC 2012, SECTION 2.2.1, THIS PROJECT REQUIRES A FLOW MANAGEMENT PLAN (FMP). IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO: (A) IDENTIFY AND INCLUDE ALL FLOW MANAGEMENT BID COSTS WITH THE PCRWRD SEWER CONSTRUCTION PERMIT APPLICATION, AND (B) PROVIDE A FLOW MANAGEMENT PLAN 30 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING WITH PCRWRD FIELD ENGINEERING FOR SEWER CONSTRUCTION. FIELD ENGINEERING WILL REVIEW THE FMP WITHIN 10 BUSINESS DAYS TO ACCOMMODATE REVIEW AND REVISION CYCLES. REFER TO SECTION 2 OF THE PCRWRD STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012 (SSDC 2012). FOR FMP QUESTIONS, PLEASE CONTACT PCRWRD FIELD ENGINEERING AT (520) 740-2651.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RETAINING AN ARIZONA REGISTERED LAND SURVEYOR TO IDENTIFY THE EXACT FINAL LOCATION AND LAYOUT OF NEW SANITARY SEWERS AND PREPARE THE SEWER AS-BUILT PLANS. SEWER AS-BUILT PLANS SHALL CONFORM TO SUBSECTION 1.4.7 OF THE PCRWRD STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012 AND ARE REQUIRED FOR FINAL ACCEPTANCE OF SEWER CONSTRUCTION BY PCRWRD. SUBMIT THREE FULL-SIZE COPIES AND AN ELECTRONIC VERSION TO PCRWRD FIELD ENGINEERING (520-724-2651) FOR REVIEW AT LEAST 30 DAYS PRIOR TO OBTAINING A DISCHARGE AUTHORIZATION FROM ADEQ.
14. EXISTING SEWER FORCE MAINS AND ABANDONED SEWER LINES SHALL BE IDENTIFIED AND MARKED PER PCRWRD STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012, STANDARD DETAIL RWRD-503. EXISTING SEWER LINES AND FORCE MAINS TO BE ABANDONED-IN-PLACE SHALL BE FILLED WITH GROUT PER PCRWRD SSDC 2012, SECTION 3.2.3H.
15. ALL LANDSCAPING LOCATED WITHIN TEN (10) FEET HORIZONTALLY OF THE PUBLIC SANITARY SEWER AND MANHOLES AND/OR WITHIN THE PUBLIC SEWER EASEMENTS SHOWN HEREON SHALL BE IN ACCORDANCE WITH THE PLANTING GUIDELINES CONTAINED WITHIN PCRWRD ENGINEERING DESIGN STANDARDS 2012, SECTION 7.7.
16. ALL STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MEASURES SHALL BE INSTALLED SO AS TO PREVENT ALL STORM WATER, CONSTRUCTION WATER, FUELS, CHEMICALS, OR LIQUIDS TO BE DIRECTED INTO OR ONTO ANY SANITARY SEWER FACILITIES. PROTECTION OF SANITARY SEWER FACILITIES SHALL BE A PART OF THE APPROVED CONSTRUCTION SWPPP AND BEST MANAGEMENT PRACTICES. PROTECTION DEVICES SHALL BE INSTALLED AND MAINTAINED AROUND ALL POTENTIALLY AFFECTED SANITARY SEWER FACILITIES WITHIN THE PROJECT LIMITS. ADDITIONAL MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO THE USE OF RAIN STOPPERS AND MANHOLE COVERS AS DEEMED NECESSARY BY



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PCRWRD.

17. PRIOR TO THE PRECONSTRUCTION MEETING WITH PCRWRD, THE CONTRACTOR SHALL IDENTIFY ALL EXISTING SANITARY SEWER MANHOLE COVERS HAVING FOREIGN MATERIALS ATTACHED. FOREIGN MATERIALS SHALL BE REMOVED FROM THE EXISTING MANHOLE COVERS REGARDLESS OF EXISTING OR NEW CONDITIONS. IF BUILD-UP IS TOO HEAVY TO BE REMOVED, THE CONTRACTOR SHALL REPLACE THE MANHOLE FRAME AND COVER. AFTER THE COMPLETION OF PAVING WORK, THE CONTRACTOR SHALL VERIFY THAT ALL SANITARY SEWER MANHOLE COVERS AND PICK HOLES ARE CLEAN AND FREE OF ANY CONSTRUCTION MATERIALS, DEBRIS, AND/OR OBSTRUCTIONS.
18. ANY WORK INSIDE OR AROUND AN EXISTING SANITARY SEWER MANHOLE, INCLUDING MANHOLES THAT ARE LOCATED WITHIN THE ROUGH GRADING LIMITS FOR A PROJECT, SHALL BE PROTECTED FROM FALLING DEBRIS BY INSTALLING A TEMPORARY FLOW CHANNEL COVER PER PCRWRD STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, STANDARD DETAIL RWRD-306. THE CONTRACTOR SHALL REMOVE ANY DEBRIS THAT ENTERS A MANHOLE DURING CONSTRUCTION. FAILURE BY THE CONTRACTOR TO PROMPTLY REMOVE DEBRIS FROM A MANHOLE SHALL RESULT IN PCRWRD TAKING CORRECTIVE ACTION THAT WILL THEN BE BILLED TO THE CONTRACTOR.
19. EXISTING MANHOLE FRAMES AND COVERS MAY NOT MATCH EXISTING PAVEMENT GRADES AND/OR ARE COVERED WITH PAVEMENT MATERIAL. PRIOR TO COMMENCING PAVEMENT WORK, THE CONTRACTOR SHALL CONTACT PCRWRD FIELD ENGINEERING AT (520-740-2651) TO INSPECT EACH OF THE EXISTING MANHOLES AND IDENTIFY WHICH REQUIRE GRADE ADJUSTMENTS PER S.D. RWRD-304 OR -305. PCRWRD RESERVES THE RIGHT TO REQUIRE MANHOLE GRADE ADJUSTMENTS AT THE DISCRETION OF THE PCRWRD FIELD ENGINEER. IF MANHOLE GRADE ADJUSTMENTS ARE REQUIRED, THIS WORK SHALL NOT COMMENCE UNTIL: (A) CONTRACTOR HAS OBTAINED A PUBLIC SEWER CONSTRUCTION PERMIT FROM PCRWRD (520-724-6369) AND (B) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT INSPECTOR IS SCHEDULED, AT LEAST THREE (3) FULL WORKING DAYS PRIOR TO THE START OF SEWER CONSTRUCTION. FLOW MANAGEMENT PLANS SHALL BE SUBMITTED TO FIELD ENGINEERING THIRTY (30) DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
20. THE CONTRACTOR SHALL NOTIFY THE PCRWRD CHIEF INSPECTOR (520-740-2651) AT LEAST 24 HOURS PRIOR TO TRENCH CONSTRUCTION ACROSS AN EXISTING SMALL-DIAMETER (12" DIAMETER OR LESS), SHALLOW SEWER LINE (LESS THAN 6 FEET OF COVER). REFER TO TABLE "1A" FOR SHALLOW SEWER LINE CROSSINGS IDENTIFIED WITH THIS PROJECT. THE CONTRACTOR SHALL PROVIDE THE INSPECTOR WITH THE PCRWRD MANHOLE NUMBERS WHERE THE SHALLOW SEWER LINE CROSSING IS LOCATED AND A DESCRIPTION OF THE PROPOSED CONSTRUCTION.



## **PIMA COUNTY**

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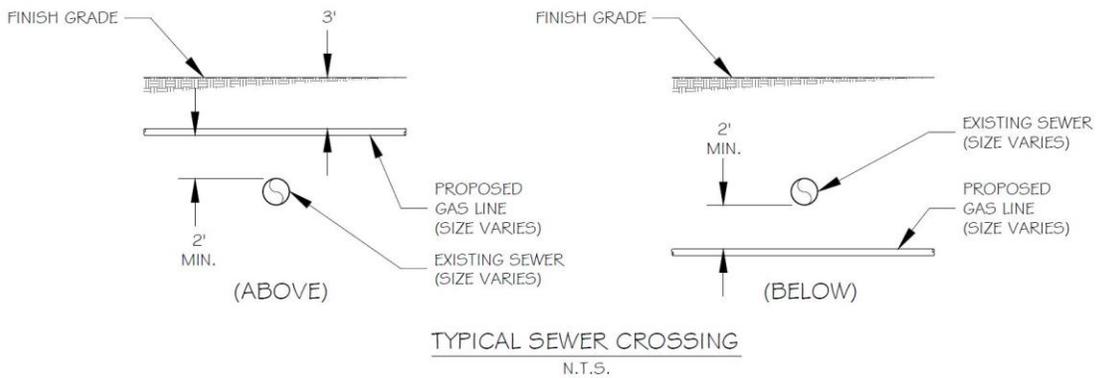
#### GENERAL SEWER NOTES (UTILITY COORDINATION SUBMITTALS)

- 21. FOR PROPOSED TRENCH CONTRUCTION ACROSS AN EXISTING LARGE-DIAMETER SEWER LINE (GREATER THAN 12 – INCHES DIAMETER) OR EXCAVATION WITHIN 6 FEET HORIZONTAL OF AN EXISTING LARGE-DIAMETER SEWER LINE, WORK IN THESE LOCATIONS SHALL NOT COMMENCE UNTIL: (A) THE CONTRACTOR HAS OBTAINED A PUBLIC SEWER OBSERVATION PERMIT FROM PCRWRD (520-724-6369), AND (B) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT INSPECTOR IS SCHEDULED, AT LEAST THREE (3) FULL WORKING DAYS PRIOR TO COMMENCING WORK IN THESE LOCATIONS. FLOW MANAGEMENT PLANS SHALL BE SUBMITTED TO FIELD ENGINEERING THIRTY (30) DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING. REFER TO PCRWRD STANDARDS SPECIFICATION AND DETAILS FOR CONSTRUCTION 2012, SECTION 2 FOR WASTEWATER FLOW MANAGEMENT REQUIREMENTS.**

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22.

TABLE 1A (SEE NOTE 5)					
SHEET#	EX. SEWER SIZE	MH#1	MH#2	GAS PIPE SIZE	ESTIMATED SEWER COVER
X	8"	1789-05	1789-06	2"	8'
X	8"	9137-05	9139-04	2"	10'
X	8"	9203-15	9203-14	2"	9'



**23. STEEL CASING SLEEVES FOR FUTURE PCRWRD SEWER CARRIER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH PCRWRD STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, STANDARD DETAIL RWRD-100. THE INSIDE DIAMETER OF THE INSTALLED CASING PIPE SHALL BE UNIFORMLY ROUND ALONG ANY SINGLE PLANE AND SHALL NOT VARY MORE THAN 1% FROM THE SPECIFIED DIAMETER. THE MAXIMUM STRAIGHTNESS DEVIATION SHALL BE 3/8-INCHES UP TO A 40-FOOT LENGTH. PRIOR TO SEALING ENDS, THE CONTRACTOR SHALL INSPECT THE INTERIOR OF THE CASING SLEEVES AND SUBMIT CCTV VIDEO TO PCRWRD FOR APPROVAL. VIDEO DELIVERABLES SHALL INCLUDE A DVD WITH CCTV FILES FOR GRANITE XP VIEWER VERSION 4.6.1, UNLESS OTHERWISE APPROVED BY THE FIELD ENGINEERING MANAGER (520-740-2651). PIPE ENDS SHALL BE SEALED WITH EITHER AN APPROVED RUBBER END SEAL PRODUCT OR A WELDED STEEL PLATE HAVING A MINIMUM THICKNESS EQUAL TO THE STEEL CASING.**

**NOTE: THE UTILITY COORDINATION GROUP WILL DETERMINE WHICH SEWER NOTES SHALL APPLY TO YOUR PROJECT**