

CONTROL POINT LIST

CP-101

N- 1643999.19 E- 1689638.84

1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND, SOUTH OF THE SOUTHEAST CORNER OF THE EAST POND. 16.05' EAST TO THE EDGE OF GRAVEL. 42.66' SOUTH TO THE EAST-WEST CHAIN-LINK FENCE. 33.32' NORTH TO THE TOP CENTER OF THE WEST 18" CMP.

CP-102

N- 1644055.58 E- 1688987.05

1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND, NEAR THE SOUTHWEST CORNER OF THE SOUTHWEST POND. 21.60' SOUTH TO THE CENTERLINE OF THE GRAVEL DRIVE. 52.14' WEST TO THE TOP CENTER OF THE EAST 30" RCP. 7.80' EAST TO THE WEST LINE OF THE SOUTHWEST POND.

CP-103

N- 1644521.60 E- 1688988.88

1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND, NEAR THE NORTHWEST CORNER OF THE NORTHWEST POND. 4.73' EAST TO THE WEST EDGE OF THE NORTHWEST POND. 87.75' NORTH TO THE EAST-WEST CHAIN-LINK FENCE. 135.52' NORTHWEST TO THE EAST-WEST-SOUTH CHAIN-LINK CORNER POST.

CP-104

N- 1644526.66 E- 1689610.42

1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND, NEAR THE NORTHEAST CORNER OF THE EAST POND. 12.77' WEST TO THE EAST EDGE OF THE EAST POND. 84.80' NORTH TO THE EAST-WEST CHAIN-LINK FENCE. 123.51' NORTHEAST TO THE EAST-WEST-SOUTH CHAIN-LINK CORNER POST.

CP-105

N- 1644285.35 E- 1689403.54

1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND, ON LINE WITH THE EAST EDGES OF THE NORTHWEST AND SOUTHWEST PONDS. 33.15' EAST TO THE WEST EDGE OF THE EAST POND. 19.90' NORTH THE SOUTH EDGE OF THE NORTHWEST POND. 25.60' SOUTH TO THE NORTH EDGE OF THE SOUTHWEST POND.

CP-1001

N- 1643954.76 E- 1689490.833

3/4" BAR 1.20' NORTH TO EAST-WEST FENCE. 217.40' EAST TO EAST-WEST-NORTH FENCE. 164.40' NORTH NORTHEAST TO SOUTH END CENTER CULVERT PIPE.

CP-1002

N- 1643955.75 E- 1689708.51

1/2" IRON PIPE. 0.30' WEST TO LINE OF FENCE NORTH. 1.80' NORTH TO LINE OF FENCE EAST-WEST. SOUTHEAST CORNER OF LAGOON PROPERTY.

CP-1005

N- 1643952.75 E- 1688903.64

1/2" IRON PIPE. 104.60' NORTHWEST TO CENTER OF TRANSFORMER. 95.00' WEST NORTHWEST TO CENTER OF SANITARY SEWER MANHOLE. 49.70' NORTHEAST TO SOUTH END OF CENTER CULVERT PIPE.

BENCH MARKS

BMK-201

SQUARE CUT ON THE SOUTHWEST CORNER OF THE WATER WELL PAD, SOUTHEAST OF THE PROPANE TANK NEAR THE WEST ENTRANCE GATE. +/- 12' SOUTH TO THE CENTERLINE OF THE GRAVEL DRIVE. +/- 50' WEST TO THE WEST ENTRANCE GATE.

ELEV.= 1331.73 NAVD88

BMK-202

SQUARE CUT ON THE NORTH RIM OF THE CONCRETE MANHOLE COLLAR IN THE MIDDLE OF THE BERM BETWEEN THE SOUTHWEST AND THE EAST PONDS. +/- 129.70' SOUTH TO THE CENTERLINE OF THE EAST-WEST GRAVEL DRIVE.

ELEV.= 1340.54 NAVD88

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS TO COMPLY WITH CITY OF WICHITA SPECIFICATIONS AND STANDARDS, UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS SHOWN ARE NAVD88 DATUM.
3. AT LEAST 72 HOURS PRIOR TO BEGINNING EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT (316) 687-2470 OR 811 TO REQUEST THE LOCAL UTILITY COMPANIES MARK ANY EXISTING LINES WITHIN THE PROJECT AREA.

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

EMERGENCY DISPATCH	911
COX COMMUNICATIONS	800-778-9140
KANSAS GAS SERVICE	888-482-4950
WESTAR ENERGY	800-363-1183
BLACK HILLS ENERGY	800-694-8989
AT&T	800-286-8313
WICHITA WATER UTILITIES (SS AND WL)	262-6000

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO THE LUMP SUM PRICE BID FOR "SITE RESTORATION".
5. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS AND FLOW STRUCTURES.
6. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES INCLUDING ANY TREES REMOVED, TREE TRIMMINGS, AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES PROVIDED BY THE CONTRACTOR. THESE SITES SHALL ALSO BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE, AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WILL REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS MAY REQUIRE ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED
7. THE CONTRACTOR SHALL SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WITH TEMPORARY RYE GRASS. RYE GRASS SEED SHALL BE PLANTED AT A MINIMUM RATE OF SIX (6) POUNDS PER ONE THOUSAND (1,000) SQUARE FEET. THIS TEMPORARY SEEDING MAY BE OMITTED ONLY IF OTHER SEEDING IS REQUIRED IN ACCORDANCE WITH GENERAL NOTE NO. 14. TEMPORARY SEEDING OR PERMANENT SEEDING/SODDING SHALL BE APPLIED WITHIN 14 DAYS AFTER THE AREA HAS BEEN DISTURBED. ALL COSTS FOR TEMPORARY RYE GRASS SEEDING SHALL BE CONSIDERED SUBSIDIARY TO "SITE RESTORATION".

8. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE ALL NOTIFICATIONS WITH THE OWNER. NO NOTIFICATIONS SHALL BE MADE PRIOR TO COORDINATION WITH THE OWNER OR WITHOUT OWNER APPROVAL.
9. THE CONTRACTOR IS REQUIRED TO MAINTAIN CONTINUOUS FLOW OF SEWAGE IN EXISTING MAINS AND TREATMENT SYSTEM AT ALL TIMES.
10. THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS SPECIFIED ON SHEETS C8-C13. THE FOLLOWING QUANTITIES ARE ESTIMATED, AND SHOULD BE CONSIDERED THE MINIMUM EFFORT REQUIRED. THE GENERAL LOCATION OF THE REQUIRED EROSION CONTROL IS ILLUSTRATED ON THE PROJECT KEY MAP. THE SANITARY SEWER CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL SHOWN THROUGH THE COMPLETION OF THIS PROJECT. INSTALLATION OF THESE BMP'S DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION.

SILT FENCE BARRIER 2,400 L.F.
CONSTRUCTION ENTRANCE 1 EA.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS FLOW OF SEWAGE THROUGH CONSTRUCTION. CONTRACTOR'S PROPOSED METHOD FOR MAINTAINING SEWAGE FLOW SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO STARTING AND BY-PASSING OF SEWAGE FLOWS. COST OF MAINTAINING FLOW OF SEWAGE THROUGH CONSTRUCTION WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER RELATED ITEMS OF WORK.
12. THE BURIED UTILITIES AS LOCATED ON THE DRAWINGS ARE APPROXIMATE LOCATIONS ONLY. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL HAVE ALL BURIED LINES LOCATED AND FLAGGED IN THE FIELD PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND REVIEW ALL BURIED LINES LOCATED TO DETERMINE IF CONFLICTS EXIST. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES. ANY LINES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
13. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE DRAWINGS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
14. ALL GRASSED AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE REPLANTED WITH GRASS AND FERTILIZED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. EXISTING GRASSED AREAS DISTURBED BY CONSTRUCTION SHALL BE REPLANTED WITH THE SAME TYPE OF GRASS AS WAS REMOVED. PASTURES AND NATIVE GRASSED AREAS SHALL BE RESEEDING IN ACCORDANCE WITH THE CRITERIA SHOWN BELOW:

NATIVE GRASS MIX:
BIG BLUESTEM - 8 LBS/ACRE
BROME GRASS - 8 LBS/ACRE
SWITCH GRASS - 3 LBS/ACRE
WESTERN WHEATGRASS - 8 LBS/ACRE
INDIAN GRASS - 8 LBS/ACRE
LITTLE BLUESTEM - 5 LBS/ACRE
SIDE OATS GRAMA - 5 LBS/ACRE
TOTAL = 45 LBS/ACRE
SEED APPLICATION = 1 LB/1,000 SQ. FT.
FERTILIZER APPLICATION (N-P-K) = 12-24-12
MULCH = PRAIRIE HAY
MULCH APPLICATION = 90 LBS/1,000 SQ. FT.

ALL COSTS FOR SEEDING AND FERTILIZING SHALL BE CONSIDERED SUBSIDIARY TO "SITE RESTORATION".
15. THE CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED AND IS PRESENT ON THE SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION AT THE CONTRACTOR'S EXPENSE.
16. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL RE-ESTABLISH CONTROL POINTS AND BENCH MARKS AND VERIFY THEIR ACCURACY.
17. PRIOR TO BEGINNING GRADING AND REHAB OPERATIONS OF EACH LAGOON CELL, THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF THE CONCRETE HEADWALLS, ANCHOR PADS (BENDS OF INFLUENT PIPES) AND PIPING. FINDINGS SHALL BE REPORTED TO THE ENGINEER.
18. EXISTING AERATORS AND DEPTH GAUGES TO BE SALVAGED TO THE OWNER.
19. CONTRACTOR SHALL ACQUIRE SLUDGE DISPOSAL SITES AS REQUIRED.
20. CONTRACTOR SHALL CONTACT THE KDHE SOUTH CENTRAL DISTRICT OFFICE WITH ANY QUESTIONS REGARDING SLUDGE DISPOSAL REQUIREMENTS. (316-337-6020)

FACILITY DESCRIPTION

1. THREE CELL WASTEWATER STABILIZATION LAGOON SYSTEM.
2. SURFACE AREA = 5.83 ACRES
3. DESIGN POPULATION EQUIVALENT = 625
4. RATED FLOW = 46,400 GPD
5. RATED POPULATION EQUIVALENT = 464 @ 100 GPCD

NOTE:
ABOVE INFORMATION BASED ON KDHE ALLOWED MAXIMUM SEEPAGE RATE OF 0.25 INCH/DAY. FIELD MEASUREMENTS IN 2014 INDICATED A SEEPAGE RATE OF APPROXIMATELY 0.1 INCH/DAY.

	No.	Revision	By	Date
	FAIRWAY MEADOWS ADDITION			
	GENERAL NOTES AND CONTROL TIES			
	SANITARY SEWER LAGOON REHABILITATION			
		PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2891 www.pec1.com		
Designed by	SCU	Job No.	187043-003	Sht. C2 of 14
Drawn by	TDS	Date	July 2019	