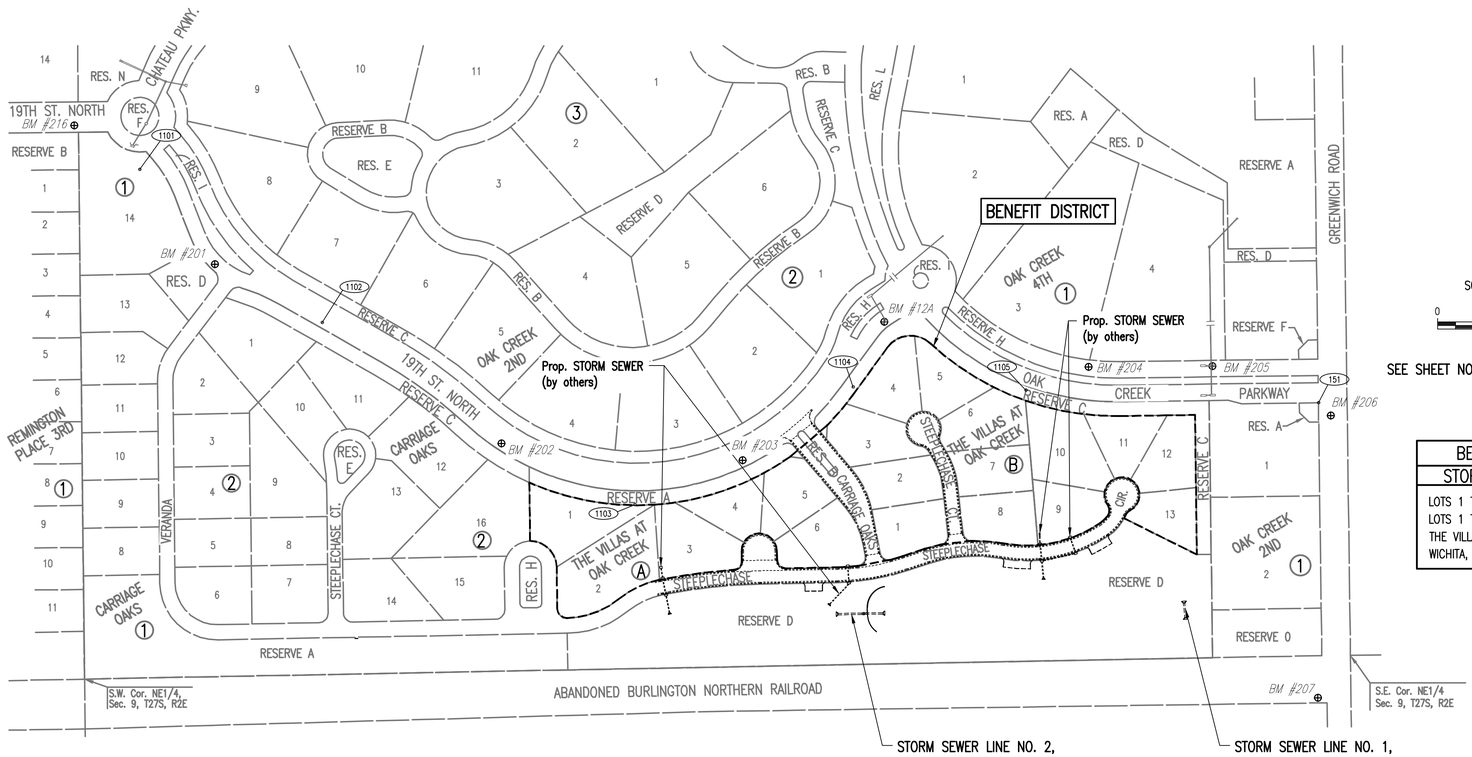

SCALE: 1"= 150'

0 150 300

SEE SHEET NO. C103 FOR PLAT COORDINATES.

BENEFIT DISTRICT
STORM WATER DRAIN
LOTS 1 THRU 6, BLOCK A, & LOTS 1 THRU 13, BLOCK B, ALL IN THE VILLAS AT OAK CREEK TO WICHITA, SEDGWICK COUNTY, KANSAS.

BENCH MARK LIST

BM #1

BM #12A – SQUARE CUT IN THE CENTER FACE OF THE CURB INLET ON THE SOUTH CURB LINE OF 19TH ST. N. +/– 100' WEST OF OAK CREEK PARKWAY, WEST OF ROUNDABOUT CIRCLE. FROM PEC PROJECT #170638–000 CARRIAGE OAKS ADDITION PLAT. ELEV.= 1380.58 (NAVD88)

BM #16 – SQUARE CUT ON THE SOUTH TOP OF CURB IN REMINGTON PLACE ADDITION. NEAR THE NORTHWEST CORNER OF LOT 5, BLOCK 1 OAK CREEK 2ND ADDITION. +/– 100' WEST OF CRANBROOK STREET. FROM PEC PROJECT # 170638–000 CARRIAGE OAKS ADDITION PLAT. ELEV.= 1395.23 (NAVD88)

BM #201 – SQUARE CUT ON THE NORTHEAST SIDE OF A CONCRETE LIGHT POLE BASE ON THE SOUTH SIDE OF 19TH ST. N AND WEST OF N VERANDA ST. +/– 3' NORTHEAST TO THE SOUTH CURB LINE ALONG 19TH ST. N. +/– 68' NORTHEAST TO THE BASE OF THE "ROUNDABOUT AHEAD" SIGN POST. ELEV.= 1399.86 (NAVD88)

BM #202 – SQUARE CUT ON THE SOUTH TOP OF CURB ALONG 19TH ST. N. NEAR THE SOUTHWEST CORNER OF LOT 4 BLOCK 3, OAK CREEKS 2ND ADDITION. +/– 5' SOUTHWEST TO THE TOP BOLT OF A FIRE HYDRANT. +/– 55' WEST TO THE CENTER OF A BURIED ELECTRIC HAND BOX. +/– 64' NORTHWEST TO THE BASE OF A LIGHT POLE. ELEV.= 1394.77 (NAVD88)

BM #203 – SQUARE CUT ON THE SOUTH TOP OF CURB ALONG 19TH ST. N, NEAR THE SOUTHEAST CORNER OF LOT 3 BLOCK 2, OAK CREEK 2ND ADDITION. +/– 50' NORTHEAST TO THE TOP BOLT ON A FIRE HYDRANT. +/– 40' WEST OF N CARRIAGE OAKS ST. ELEV.= 1389.93 (NAVD88)

BM #204 – SQUARE CUT ON THE NORTH TOP OF CURB ALONG 19TH ST. N. NEAR THE SOUTHEAST CORNER OF LOT 3 BLOCK 1 OAK CREEK 4TH ADDITION. +/– 17' EAST–NORTHEAST TO THE BASE OF A LIGHT POLE. +/– 24' NORTH TO THE TOP OF A TELEPHONE PEDESTAL. +/– 39' WEST–NORTHWEST TO THE BASE OF A "PEDESTRIAN CROSSING" SIGN POST. ELEV.= 1372.86 (NAVD88)

BM #205 – SQUARE CUT IN THE CENTER OF THE TOP OF THE EAST INLET, ON THE NORTH SIDE OF 19TH ST. N., NEAR GREENWICH RD. +/– 12' EAST TO THE BASE OF A LIGHT POLE. +/– 72' SOUTH TO THE NORTHEAST CORNER OF RESERVE AREA "D" THE VILLAS AT OAK CREEK. +/– 250' EAST TO THE WEST CURB LINE ALONG N GREENWICH RD. ELEV.= 1367.87 (NAVD88)

BM #206 – SQUARE CUT IN THE CENTER OF A CURB INLET ON THE WEST SIDE OF N GREENWICH RD, AND SOUTH OF THE EAST ENTRANCE TO OAK CREEKS SUBDIVISION. +/– 27' NORTH–NORTHWEST TO THE BASE OF A WOOD LIGHT POLE. +/– 37' WEST TO THE SOUTH END OF THE STONE "OAK CREEKS" SIGN. +/– 51' NORTHWEST TO THE BASE OF THE "STOP" SIGN POST. ELEV.= 1363.66 (NAVD88)

BM #207 – CITY OF WICHITA BRASS DISC ON THE SOUTH END OF THE WEST HEADWALL OF A RCB RUNNING EAST–WEST UNDER N GREENWICH RD. +/– 29' EAST TO THE WEST CURB LINE ALONG N GREENWICH RD. +/– 43' NORTH TO THE CENTERLINE OF THE GRAVEL PATH TO THE WEST (ABANDONED RR TRACKS). ELEV.= 1366.78 (NAVD88)

CONTROL POINTS

501

Pt. No. 151
1/2" REBAR WITH PEC CAP (PROPERTY CORNER) +/– 0.2' BELOW GROUND ON THE SOUTHWEST CORNER OF THE INTERSECTION OF OAK CREEK PKWY AND N GREENWICH RD.
N: 385167.89, E: 2374049.30
1. 15.0' NORTH TO THE SOUTH CURB LINE OF E OAK CREEK PKWY.
2. 25.5' EAST TO THE WEST CURB LINE ALONG N GREENWICH RD.

Pt. No. 1101
1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND ON THE SOUTH SIDE OF E 19TH ST. AND ON THE WEST END OF THE BERM SOUTH OF THE ROUND–ABOUT AT E 19TH ST AND CHATEAU PKWY.
N: 385,657.03, E: 2,371,578.30
1. 49.1' NORTH TO A CHISELED "X" CUT ON THE SOUTHEAST CORNER OF THE CURB INLET.
2. 77.8' NORTHEAST TO CHISELED "X" CUT ON CENER OF THE WEST END OF THE CURB ISLAND SOUTHEAST OF THE ROUND–ABOUT

Pt. No. 1102
1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND ON THE SOUTH SIDE OF EAST 19TH STREET AND EAST OF THE PROPOSED VERANDA STREET.
N: 385,336.40, E: 2,371,961.09
1. 96.6' WEST–NORTHWEST TO THE TOP BOLT OF A FIRE HYDRANT.
2. 3.45' NORTH TO A CHISELED "X" CUT IN THE TOP OF THE SOUTH CURB LINE ALONG 19TH STREET.

Pt. No 1103
1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND ON THE SOUTH SIDE OF E 19TH ST. AND ON THE WEST END OF THE BERM WEST OF THE PROPOSED N CARRIAGE OAKS ST.
N: 384,954.16, E: 2,372,616.65
1. 43.4' NORTH TO A CHISELED "X" CUT ON THE SOUTH CURB LINE OF 19TH ST.
2. 49.8' NORTHWEST TO THE SOUTHEAST BOLT OF A 12" X 24" BURIED ELECTRICAL BOX.

Pt. No. 1104
1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND ON THE SOUTHEAST SIDE OF E 19TH ST. AND ON THE NORTH END OF THE BERM SOUTH OF THE ROUND–ABOUT AT E 19TH ST. AND OAK CREEK PKWY.
N: 385,201.40, E: 2,373,073.86
1. 34.70' NORTHWEST TO A CHISELED "X" CUT ON THE TOP OF THE SOUTH/EAST CURB LINE ALONG E 19TH ST.
2. 51.0' SOUTHWEST TO THE BASE OF THE "ROUND–ABOUT AHEAD" SIGN POST.

Pt. No. 1105
1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND ON THE SOUTH SIDE OF OAK CREEK PKWY.
N: 385,194.10, E: 2,373,436.08
1. 40.4' NORTHWEST TO A CHISELED "X" CUT IN THE EAST SIDE OF THE CONCRETE BASE OF A STREET LIGHT POLE.
2. 23.8' NORTH TO A CHISELED "X" CUT ON THE TOP OF THE SOUTH CURB LINE ALONG E 19TH ST.

EARTHWORK SUMMARY (C.Y.)

	UNCLASSIFIED EXCAVATION	COMPACTED* FILL (95%)
SWD NO. 463	49,860	39,666
TOTALS	49,860	39,666

* 95% COMPACTION IS REQUIRED FOR ALL PLACEMENT.

ESTIMATED EXCESS MATERIAL AT PROJECT COMPLETION=
49,860 – (39,666/0.85) = 3,194 C.Y.
ASSUMED 15% SHRINK/SWELL

EXCESS MATERIAL SHALL BE STOCKPILED ONSITE AT THE LOCATIONS AS DIRECTED BY THE DEVELOPER, BLADED SMOOTH AND SLOPED TO DRAIN.

EARTHWORK QUANTITIES ARE MEASURED FROM TOP OF PROPOSED GRADE TO EXISTING GROUND AND DOES NOT INCLUDE EARTHWORK WITHIN THE LIMITS OF THE PAVING PROJECT (C.O.W. PROJECT NUMBER 472–2019–085583) AS SHOWN ON THE GRADING PLANS. THE CONTRACTOR SHALL SATISFY THEMSELVES WITH THE EARTHWORK QUANTITIES AND NO CHANGE ORDER FOR EARTHWORK WILL BE APPROVED.

SITE GRADING NOTES

1. THE CONTRACTOR SHALL STRIP MINIMUM 6" OF EXISTING TOPSOIL ORGANIC/MATERIAL PRIOR TO PLACEMENT OF FILL. CONTRACTOR SHALL PROOF ROLL SUBGRADE AFTER STRIPPING TOPSOIL PRIOR TO PLACEMENT OF FILL. WHERE EXISTING TOPSOIL/ORGANIC MATERIAL EXCEEDS 6", CONTRACTOR SHALL STRIP ADDITIONAL DEPTH AS NEEDED PRIOR TO PLACEMENT OF FILL. CONTRACTOR SHALL APPLY TOPSOIL TO ALL DISTURBED AREAS PRIOR TO SEEDING. THE TOP 6" OF MATERIAL SHALL BE SOIL WHICH IS SUITABLE FOR GROWTH OF VEGETATION.
2. ONLY APPROVED MATERIALS SHALL BE USED IN PLACEMENT OF SITE FILL. THIS MATERIAL SHALL BE FREE OF ANY ORGANIC MATTER, LARGE STONES, AND DEBRIS.
3. ALL FILL PLACED ONSITE SHALL BE COMPACTED TO 95%. ALL FILL SHALL BE PLACED IN LIFTS AND COMPACTED TO THE DENSITY REQUIREMENTS, EXCEPT TOPSOILING.
4. NO WASTE MATERIAL SHALL BE PLACED IN ANY STREET RIGHT–OF–WAY OR RESERVE D.
5. THE LUMP SUM BID ITEM "MASS GRADING" SHALL INCLUDE TOPSOILING STRIPPING AND PLACING, GRADING AND COMPACTING OF SOIL MATERIAL TO THE REQUIREMENTS OF THIS GRADING PLAN; AND FOR ALL EQUIPMENT, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.
6. ANY DOUBLE–HANDLING AND/OR STOCKPILING OF EXCAVATED MATERIAL WHICH MAY BE REQUIRED, INCLUDING REMOVAL AND REPLACEMENT OF TOPSOIL, WILL NOT BE MEASURED OR PAID FOR SEPARATELY.
7. THE ACTUAL EXCAVATION OF MATERIAL FOR SITE GRADING IS INCLUDED IN THE BID ITEM "UNCLASSIFIED EXCAVATION".

GENERAL NOTES

1. ALL ELEVATIONS SHOWN ARE NAVD88 DATUM.
2. 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.
3. ALL CONSTRUCTION WORK AND MATERIAL IN THIS PROJECT SHALL COMPLY WITH CITY OF WICHITA STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF CITY PROJECTS UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL PROVISIONS.
4. UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, 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.
5. TREES AND SHRUBS IN PUBLIC RIGHT–OF–WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
6. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR AND APPROVED AS NOTED BELOW. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD 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 WOULD REQUIRE ADDITIONAL ARCHEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
7. EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT HE WILL BE FULLY INFORMED OF THE EXISTING FIELD CONDITIONS AND THE OBSTACLES WHICH MIGHT BE ENCOUNTERED. UPON AWARD OF THE CONTRACT THE CONTRACTOR WILL NOT BE GRANTED ANY ADDITIONAL COMPENSATION WITH REGARDS TO TIME AND MONEY FOR CONDITIONS THAT MAY HAVE BEEN EVALUATED DURING ANY INSPECTION OF THE SITE.
8. FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY EXCAVATION WORK. CONTACT THE KANSAS–ONE–CALL SYSTEM AT 811 OR 687–2470 AT LEAST 72 HOURS IN ADVANCE TO REQUEST FIELD LOCATES. FOR UTILITIES THAT ARE NOT MEMBERS OF THE KANSAS–ONE–CALL SYSTEM, CONTACT THOSE COMPANIES DIRECTLY. THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

EMERGENCY DISPATCH	911
AT&T	800–246–8464
CITY OF WICHITA WATER & SEWER	316–219–8921
CITY OF WICHITA STORMWATER	316–268–4090
CITY OF WICHITA TRAFFIC	316–268–4034
BLACK HILLS ENERGY	800–694–8989
COX COMMUNICATIONS	888–249–3530
KANSAS GAS SERVICE	888–482–4950
EVERGY	800–544–4857
COFFEYVILLE RESOURCES CRUDE TRANS.	620–870–0608

9. THE LUMP SUM BID ITEM "SITE CLEARING" SHALL INCLUDE, BUT NOT BE LIMITED TO REMOVAL OF MINOR OBSTRUCTIONS, REMOVAL AND SALVAGE OF CONFLICTING PRIVATE IMPROVEMENTS WITHIN THE PROJECT AREA, REMOVAL OF CONSTRUCTION DEBRIS, REMOVAL OF TREES WITHIN CONSTRUCTION LIMITS, AND GENERAL CLEAN–UP.
10. 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 THE CONTRACTOR CONSTRUCTION OPERATIONS, OR WHICH ARE COVERED BY 12" OR MORE OF FILL MATERIAL BY THIS PROJECT. SUCH IRONS SHALL BE RE–ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS AND AT NO ADDITIONAL COST TO THE CITY.
11. THE CONTRACTOR SHALL APPLY TEMPORARY SEED AND MULCH TO ALL UNPAVED AREAS DISTURBED BY HIS CONSTRUCTION OPERATIONS WITHIN 14 DAYS AFTER SUCH OPERATIONS CEASE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE BID FOR "SEEDING, TEMPORARY".
12. THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS SPECIFIED ON THE EROSION CONTROL PLAN CONTAINED HEREIN. INSTALLATION OF THESE BMP'S DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION.
13. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF 10 DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION IN THE VICINITY OF THE AFFECTED PROPERTY.
14. CONTRACTOR SHALL SUPPLY, INSTALL, AND MAINTAIN CONSTRUCTION TRAFFIC CONTROL AS NECESSARY TO PROTECT THE TRAVELING PUBLIC. ALL TRAFFIC CONTROL DEVICES, AND THE INSTALLATION AND USE THEREOF, SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. ALL DEVICES SHALL BE REFLECTORIZED. CONSTRUCTION TRAFFIC CONTROL SHALL BE SUBSIDIARY TO OTHER BID ITEMS OF WORK.
15. WATER FOR EARTHWORK SHALL BE CONSIDERED SUBSIDIARY TO "UNCLASSIFIED EXCAVATION".
16. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL RE–ESTABLISH CONTROL POINTS AND BENCH MARKS AND VERIFY THEIR ACCURACY.
17. THE CONTRACTOR SHALL EXERCISE CAUTION WHILE WORKING IN THE VICINITY OF EXISTING IRRIGATION AND LANDSCAPING ITEMS. ANY REMOVAL, RELOCATION AND/OR REPLACEMENT OF LANDSCAPING ITEMS, SPRINKLER HEADS, IRRIGATION SYSTEMS OR OTHER PRIVATE IMPROVEMENTS THAT ARE IN DIRECT CONFLICT WITH CONSTRUCTION SHALL BE COORDINATED WITH THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE PROPERTY OWNER OF ANY SUCH WORK. AND FOR REPAIRING ANY DAMAGE TO THE EXISTING PRIVATE IMPROVEMENTS RESULTING FROM CONSTRUCTION OF THE PROJECT. THE MATERIAL COST, LABOR COST AND ALL INCIDENTALS NECESSARY TO THE COMPLETE THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR "SITE CLEARING".

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CITY OF WICHITA

JOSHUA GOLKA LICENSED 24136 11/15/2019 KANSAS PROFESSIONAL ENGINEER

STORM DRAIN NO. 463
TO SERVE
THE VILLAS AT OAK CREEK

GARY JANZEN, P.E. - CITY ENGINEER
CITY OF WICHITA PROJECT NO. 468-2019-085434

Issue:		

JOB NO.	35-170551-001-0042
DATE	NOVEMBER 2019
PM	JAG
DESIGNED BY	JAG
DRAWN BY	CSL, KTD
CHECKED BY	CSB

KEY MAP AND GENERAL NOTES

C102

Saved 11-14-2019 3:25:13 PM by KURTIS.DEKAT
Plot Scale 1:1 11-15-2019 8:56:25 AM by KURTIS.DEKAT
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