

GENERAL NOTES

- ALL ELEVATIONS SHOWN ARE BASED ON CITY OF WICHITA DATUM (MEAN SEA LEVEL ELEV. - 1187.4 = CITY DATUM).
- CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT(48)HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE CALL 687-2470

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

CABLEVISION 262-4270 OR 263-2061
 KG&E-GAS 263-7511
 KG&E-ELECTRIC 264-1141
 PEOPLES NATURAL GAS 942-8811
 SOUTHWESTERN BELL TELEPHONE 1-571-2611

THE CONTRACTOR SHALL NOTIFY PIPELINE COMPANIES AT LEAST 24 HOURS IN ADVANCE OF ANY WORK BEING PERFORMED ACROSS AND/OR ADJACENT TO PIPELINES.

- COST OF EXCAVATION, HAULING AND DUMPING OF EXCESS EXCAVATION SHALL BE SUBSIDIARY TO OTHER ITEMS OF WORK.
- THE CONTRACTOR SHALL NOTIFY THE INSPECTOR FOR THIS PROJECT 48 HOURS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT ON SITE. ANY WORK DONE WITHOUT INSPECTION WILL BE REQUIRED TO BE UNCOVERED FOR INSPECTION.
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY DIRECTLY ADJUTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO REESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS SUCH IRONS SHALL BE REESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, ENTRANCES AND BANK LINES TO THEIR ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE.
- INTERURBAN TRAFFIC GENERATED OUTSIDE THE PROJECT AREA SHALL BE CARRIED THROUGH CONSTRUCTION. LOCAL RESIDENTIAL TRAFFIC GENERATED WITHIN THE PROJECT AREA SHALL BE CARRIED THROUGH CONSTRUCTION AS FURTHER PROMULGATED BY PROJECT SPECIAL PROVISIONS.
- 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 OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. 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.
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL 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 FLOODPLAIN 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 ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
- PROPERTIES WITHIN THE PROJECT LIMITS MAY HAVE UNDERGROUND SPRINKLER SYSTEMS IN THE PUBLIC RIGHT-OF-WAY WHICH CONFLICT WITH NEW CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO REMOVE SUCH IMPROVEMENTS SHOULD THEY NOT BE REMOVED BY THEIR OWNER AT THE TIME OF CONSTRUCTION OF THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SALVAGE ALL SPRINKLER HEADS AND/OR VALVES AND GIVE SUCH MATERIAL TO THEIR OWNER. PORTIONS OF UNDERGROUND SPRINKLER SYSTEMS NOT IN CONFLICT WITH NEW CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND SHALL REMAIN IN PLACE. ALL WORK IN CONNECTION WITH UNDERGROUND SPRINKLER SYSTEMS SHALL BE CONSIDERED AS SUBSIDIARY TO THE CONTRACT PAY ITEMS OF WORK.
- ALL PROPOSED STUBS AND PLUGGED PIPES SHALL BE LOCATED WITH GREEN PLASTIC TAPE.
- PRIOR TO LAYING THE NEW SEWER LINES THE CONTRACTOR SHALL EXPOSE AND VERIFY THE ELEVATION, GRADE AND ALIGNMENT OF THE EXISTING SANITARY SEWER AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES FROM THE PLAN.
- THE CONTRACTOR MUST EXAMINE THE CONSTRUCTION SITE PRIOR TO BIDDING AND BE SATISFIED AS TO THE WORK SHOWN FOR COMPLETION. AFTER BIDS HAVE BEEN RECEIVED, THE CONTRACTOR SHALL NOT ASSERT THAT THERE WAS A MISUNDERSTANDING OF THE QUANTITIES OF WORK OR OF THE NATURE FOR THE WORK TO BE COMPLETED.
- EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION AVAILABLE 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 PLAN LOCATIONS ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WHICH ARE ENCOUNTERED ON THIS PROJECT. 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.
- THE ENGINEER SHALL TAKE FIELD TIES TO ALL QUARTER SECTION CORNERS. THE CONTRACTOR SHALL SET A CITY SURVEY MONUMENT IN THE REQUIRED LOCATION WHERE SUCH QUARTER SECTION CORNERS FALL WITHIN THE LIMITS OF PAVEMENT CONSTRUCTION. SURVEY MONUMENTS WILL BE FURNISHED BY THE CITY. THE ENGINEER WILL ACCURATELY LOCATE AND INSTALL THE IRON AT THE QUARTER SECTION CORNER. THIS WORK WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE OTHER PAY ITEMS OF WORK IN THE CONTRACT.

18. A SAW CUT OF AT LEAST ONE-HALF THE DEPTH OF EXISTING SURFACE COURSES OR ONE-FOURTH THE DEPTH OF THE TOTAL PAVEMENT THICKNESS SHALL BE PROVIDED AT LOCATIONS WHERE PROPOSED CONSTRUCTION ABUTS AN EXISTING SURFACE COURSE OR PAVEMENT FOR WHICH PARTIAL REMOVAL OF THAT SURFACE OR PAVEMENT IS REQUIRED. SAWED JOINT TO FACILITATE REMOVAL WITHIN 3 FEET (3') OF EXISTING JOINTS WILL NOT BE PERMITTED AND FOR SUCH INSTANCES THE LIMITS OF REMOVAL SHALL EXTEND TO THE EXISTING JOINT. SUCH SAW CUTS WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE CONSIDERED AS SUBSIDIARY TO THE REMOVAL OF THE SURFACE OR PAVEMENT.

19. TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION 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.

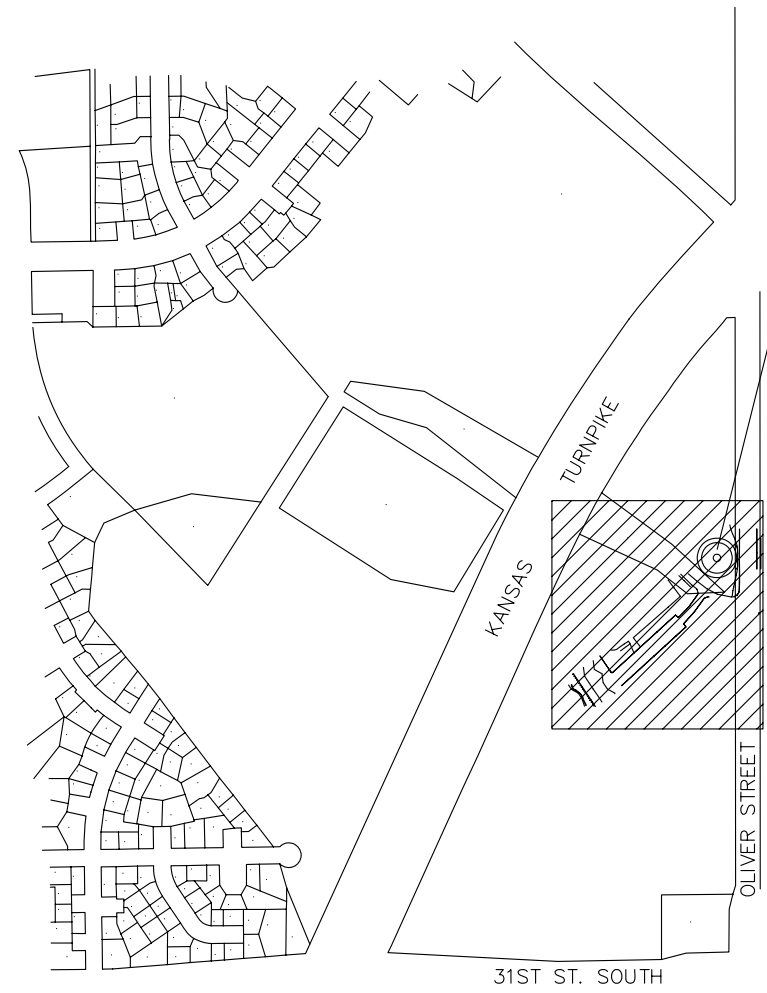
20. ONLY ACTIVE BUILDING SEWER LINES WHICH CONNECT ACTUAL BUILDINGS TO THE SEWER SYSTEM ARE TO BE RECONNECTED TO THE NEW SEWER CONSTRUCTION. BUILDING SEWER LINES AND/OR CONNECTIONS WHICH HAVE BEEN ABANDONED ARE NOT TO BE RECONNECTED TO THE NEW SEWER CONSTRUCTION. IT WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN WHICH SUCH BUILDING SEWER LINES AND/OR CONNECTIONS ARE ACTIVE, AND WHICH SUCH SEWERS AND/OR CONNECTIONS HAVE BEEN ABANDONED. ALL WORK INVOLVED WITH BUILDING SEWER LINE CONSTRUCTION AND/OR BUILDING SEWER CONNECTIONS SHALL CONFORM TO THE APPLICABLE SECTION OF THE STANDARD SPECIFICATIONS.

21. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.

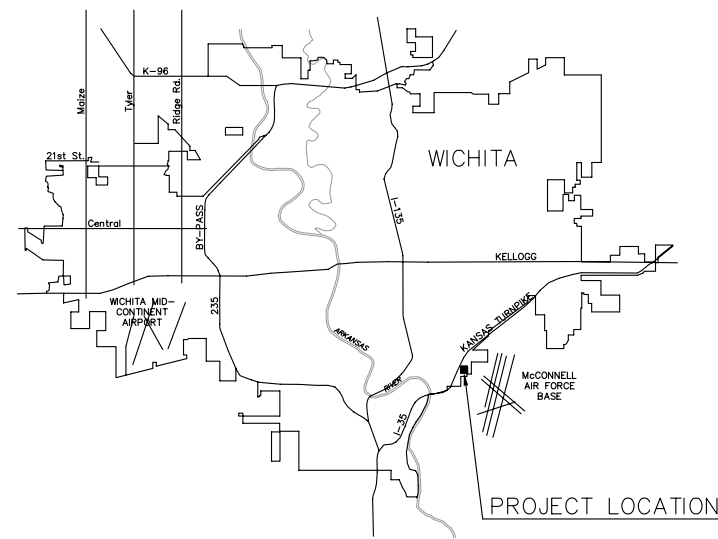
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS FLOW OF SEWAGE THROUGH CONSTRUCTION. CONTRACTOR'S PROPOSED METHOD FOR MAINTAINING SEWAGE FLOW SHALL BE APPROVED BY THE ENGINEER. COST OF MAINTAINING FLOW OF SEWAGE THROUGH CONSTRUCTION WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER PAY ITEMS OF WORK.

23. PAVEMENT REMOVAL AND/OR REPLACEMENT WILL BE MEASURED AND PAID FOR ON THE LINEAL FOOT BASIS AS MEASURED ALONG THE CENTERLINE OF THE SEWER REGARDLESS OF WIDTH OR THICKNESS. MINIMUM LIMITS OF SUCH PAVEMENT REMOVAL AND REPLACEMENT SHALL BE ONE FOOT BEYOND THE LIMITS OF THE EXCAVATION MADE FOR THEW SEWER OR THE STRUCTURE, EXCEPT WHEN THE LINES OF REMOVAL ARE WITHIN THREE (3) FEET OF AN EXISTING JOINT THE LIMITS OF REMOVAL SHALL BE EXTENDED TO THE EXISTING JOINT. REMOVAL AND REPLACEMENT OF EXISTING PAVEMENT SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE CITY OF WICHITA STANDARD SPECIFICATIONS.

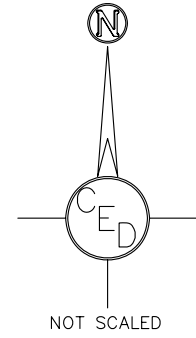
SANITARY SEWER IMPROVEMENTS FOR NW OF INTERSECTION OF 31ST ST. SOUTH AND OLIVER WICHITA, KANSAS PROJECT NO. 468 83177 (622230) MIKE LINDEBAK, P.E., CITY ENGINEER MARCH 2001



PROJECT SITE



LOCATION MAP



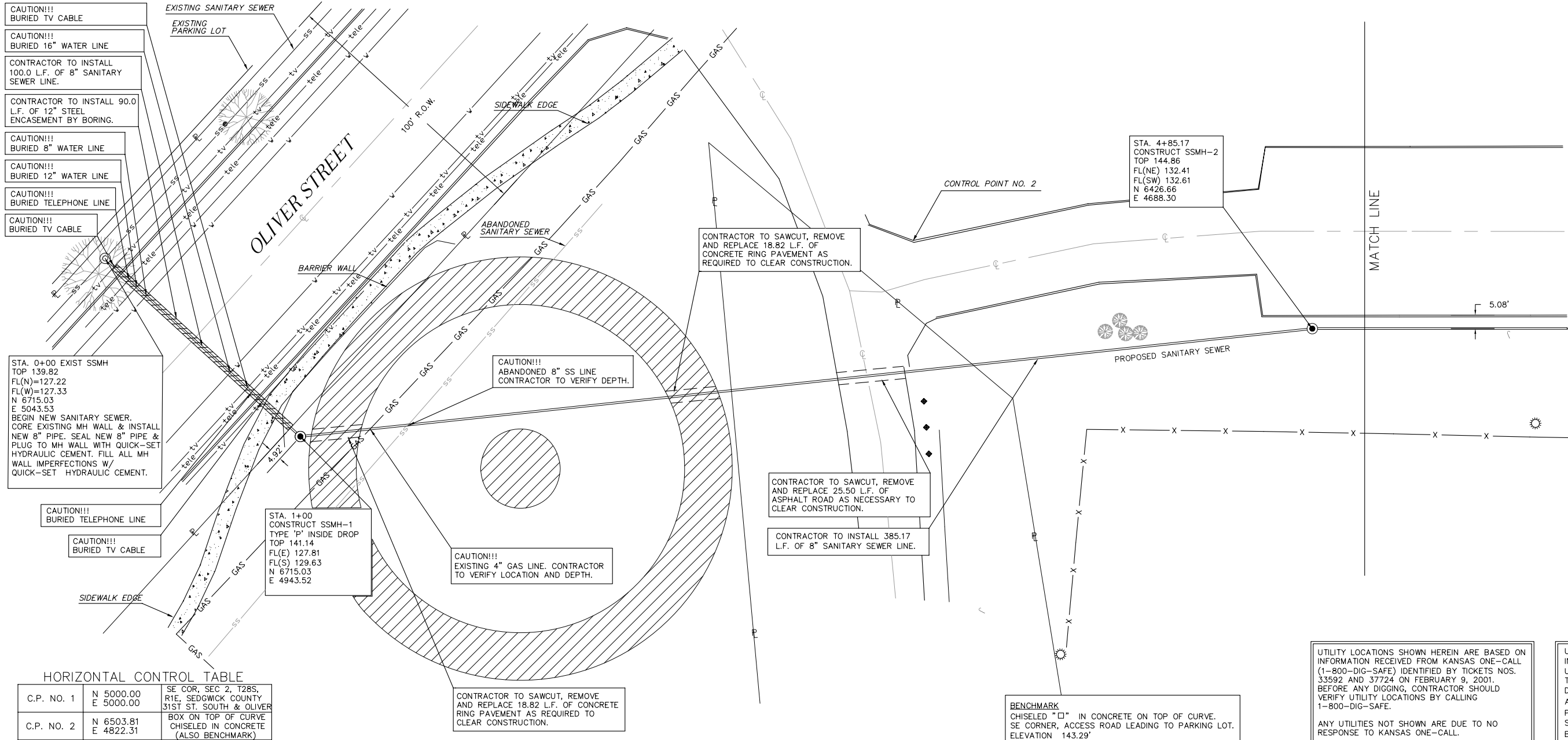
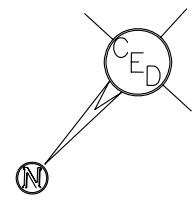
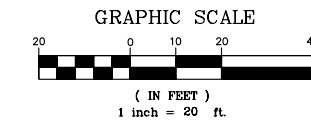
**No As-Built info at this time
 .pdf by JDL 8/9/07**

PROJECT LOCATED IN THE
 S.E.1/4, SEC. 2, T.28S., R.1E.
 WICHITA, SEDGWICK COUNTY, KANSAS

INDEX OF SHEETS

1. Title Sheet
2. Plan & Profile-1
3. Plan & Profile-2
4. Standard Manhole Details
5. Manhole Frame and Cover Detail

PROJ. NO.: 468 83177 (622230)		
CERTIFIED ENGINEERING DESIGN, PA		
CED	810 WEST DOUGLAS, SUITE C WICHITA, KANSAS 67203	SHEET 1
	PH#(316)262-8808 FAX#(316)262-1669	TOTAL 5



CAUTION!!! BURIED TV CABLE

CAUTION!!! BURIED 16" WATER LINE

CONTRACTOR TO INSTALL 100.0 L.F. OF 8" SANITARY SEWER LINE.

CONTRACTOR TO INSTALL 90.0 L.F. OF 12" STEEL ENCASUREMENT BY BORING.

CAUTION!!! BURIED 8" WATER LINE

CAUTION!!! BURIED 12" WATER LINE

CAUTION!!! BURIED TELEPHONE LINE

CAUTION!!! BURIED TV CABLE

STA. 0+00 EXIST SSMH
TOP 139.82
FL(N)=127.22
FL(W)=127.33
N 6715.03
E 5043.53
BEGIN NEW SANITARY SEWER.
CORE EXISTING MH WALL & INSTALL
NEW 8" PIPE. SEAL NEW 8" PIPE &
PLUG TO MH WALL WITH QUICK-SET
HYDRAULIC CEMENT. FILL ALL MH
WALL IMPERFECTIONS W/
QUICK-SET HYDRAULIC CEMENT.

STA. 1+00
CONSTRUCT SSMH-1
TYPE 'P' INSIDE DROP
TOP 141.14
FL(E) 127.81
FL(S) 129.63
N 6715.03
E 4943.52

STA. 4+85.17
CONSTRUCT SSMH-2
TOP 144.86
FL(NE) 132.41
FL(SW) 132.61
N 6426.66
E 4688.30

CONTRACTOR TO SAWCUT, REMOVE
AND REPLACE 18.82 L.F. OF
CONCRETE RING PAVEMENT AS
REQUIRED TO CLEAR CONSTRUCTION.

CAUTION!!!
ABANDONED 8" SS LINE
CONTRACTOR TO VERIFY DEPTH.

CAUTION!!!
ABANDONED 4" GAS LINE. CONTRACTOR
TO VERIFY LOCATION AND DEPTH.

CONTRACTOR TO SAWCUT, REMOVE
AND REPLACE 25.50 L.F. OF
ASPHALT ROAD AS NECESSARY TO
CLEAR CONSTRUCTION.

CONTRACTOR TO INSTALL 385.17
L.F. OF 8" SANITARY SEWER LINE.

CONTRACTOR TO SAWCUT, REMOVE
AND REPLACE 18.82 L.F. OF CONCRETE
RING PAVEMENT AS REQUIRED TO
CLEAR CONSTRUCTION.

BENCHMARK
CHISELED "□" IN CONCRETE ON TOP OF CURVE.
SE CORNER, ACCESS ROAD LEADING TO PARKING LOT.
ELEVATION 143.29'

LEGEND

- ⊙ = Existing Manhole
- ⊙ = Proposed Manhole
- = Power Pole
- x-x- = Fence
- |-|- = Water Line
- g-g-g- = Buried Gas Line
- t-t-t- = Buried Telephone Line
- ss- = Sanitary Sewer
- P = Property Line
- ⊕ = Center Line
- ☀ = Light Post
- 🌳 = Tree
- ⋄ = Guy Wire
- ⊠ = Barrier Post

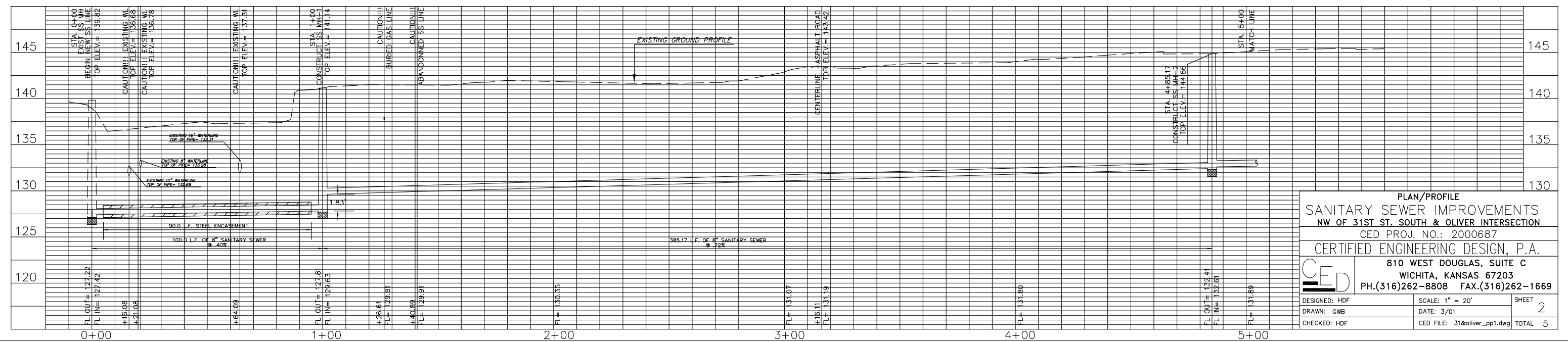
UTILITY LOCATIONS SHOWN HEREIN ARE BASED ON
INFORMATION RECEIVED FROM KANSAS ONE-CALL
(1-800-DIG-SAFE) IDENTIFIED BY TICKETS NOS.
33592 AND 37724 ON FEBRUARY 9, 2001.
BEFORE ANY DIGGING, CONTRACTOR SHOULD
VERIFY UTILITY LOCATIONS BY CALLING
1-800-DIG-SAFE.

ANY UTILITIES NOT SHOWN ARE DUE TO NO
RESPONSE TO KANSAS ONE-CALL.

UTILITIES SHOWN REPRESENT THE BEST
INFORMATION AVAILABLE FOR DESIGN. ADDITIONAL
UTILITIES MAY BE PRESENT ON THIS PROJECT.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR
DETERMINING THE EXACT LOCATION, DEPTH
AND SIZE OF ALL UNDERGROUND UTILITIES
PRIOR TO CONSTRUCTION. THE CONTRACTOR
SHALL BE LIABLE FOR ANY DAMAGE CAUSED
BY THE FAILURE TO DO SO.

HORIZONTAL CONTROL TABLE

C.P. NO. 1	N 5000.00 E 5000.00	SE COR, SEC 2, T28S, R1E, SEDGWICK COUNTY 31ST ST. SOUTH & OLIVER
C.P. NO. 2	N 6503.81 E 4822.31	BOX ON TOP OF CURVE CHISELED IN CONCRETE (ALSO BENCHMARK)

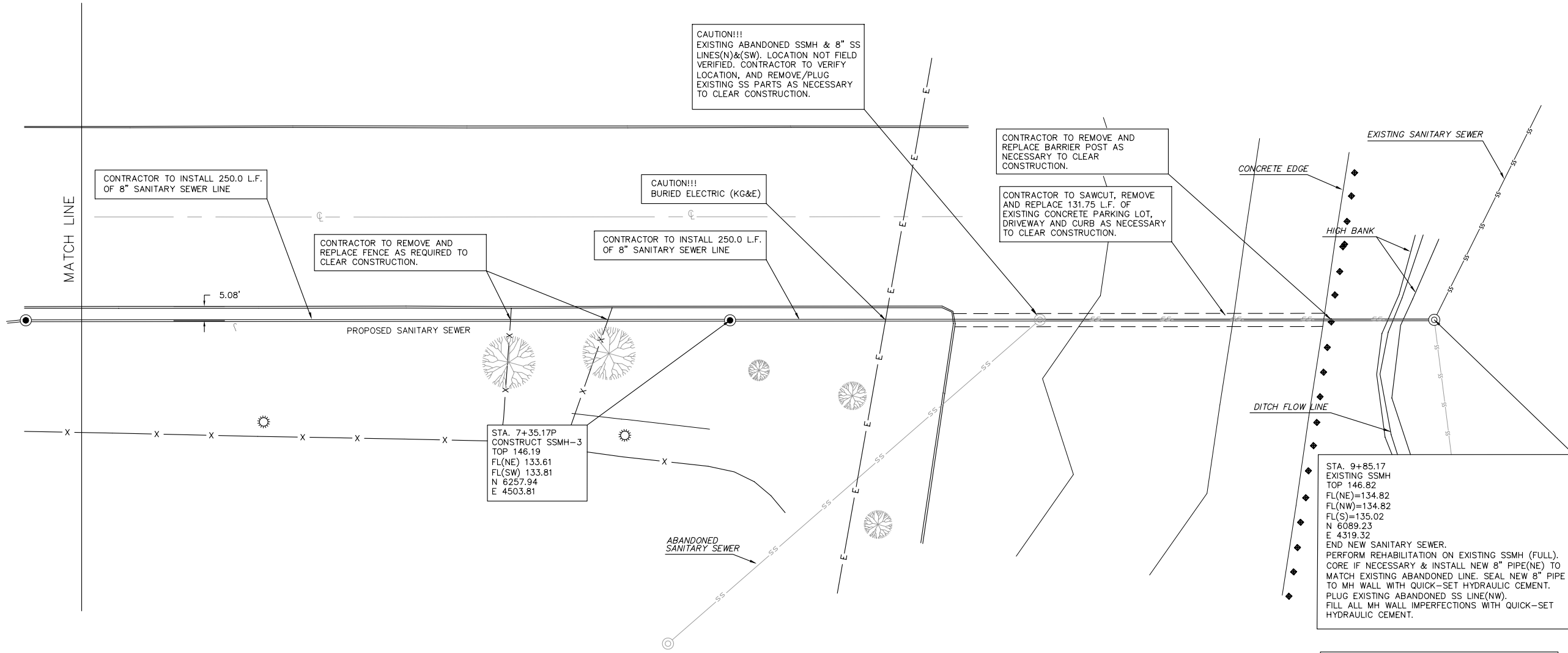
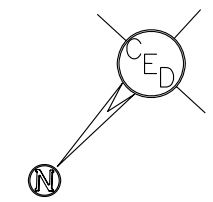
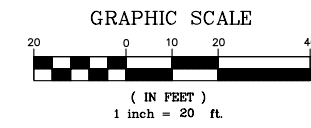


PLAN/PROFILE
SANITARY SEWER IMPROVEMENTS
NW OF 31ST ST. SOUTH & OLIVER INTERSECTION
CED PROJ. NO.: 2000687
CERTIFIED ENGINEERING DESIGN, P.A.
810 WEST DOUGLAS, SUITE C
WICHITA, KANSAS 67203
PH.(316)262-8808 FAX.(316)262-1669

DESIGNED: HDF
DRAWN: GWB
CHECKED: HDF

SCALE: 1" = 20'
DATE: 3/01
CED FILE: 31&oliver_pp1.dwg

SHEET
2
TOTAL 5



LEGEND

- ⊙ = Existing Manhole
- ⦿ = Proposed Manhole
- ⦿ = Power Pole
- x-x-x = Fence
- = Water Line
- - - = Buried Electric Cable
- - - = Buried Gas Line
- - - = Buried Telephone Line
- ss — = Sanitary Sewer
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- ◆ = Barrier Post

HORIZONTAL CONTROL TABLE

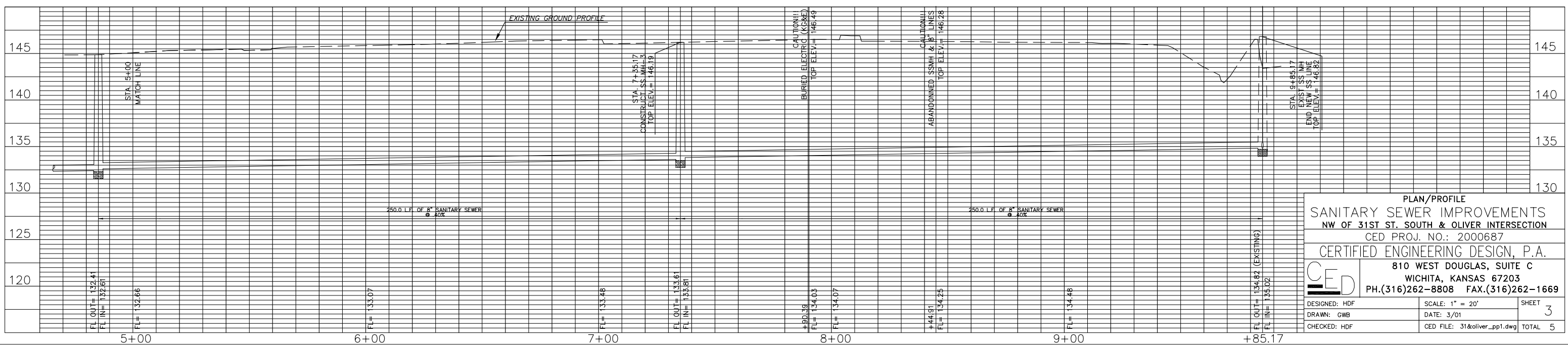
C.P. NO. 1	N 5000.00 E 5000.00	SE COR, SEC 2, T28S, R1E, SEDGWICK COUNTY 31ST ST. SOUTH & OLIVER
C.P. NO. 2	N 6503.81 E 4822.31	BOX ON TOP OF CURVE CHISELED IN CONCRETE (ALSO BENCHMARK)

BENCHMARK
CHISELED "□" IN CONCRETE ON TOP OF CURVE. SE CORNER, ACCESS ROAD LEADING TO PARKING LOT. ELEVATION 143.29'

UTILITY LOCATIONS SHOWN HEREIN ARE BASED ON INFORMATION RECEIVED FROM KANSAS ONE-CALL (1-800-DIG-SAFE) IDENTIFIED BY TICKETS NOS. 33592 AND 37724 ON FEBRUARY 9, 2001. BEFORE ANY DIGGING, CONTRACTOR SHOULD VERIFY UTILITY LOCATIONS BY CALLING 1-800-DIG-SAFE.

ANY UTILITIES NOT SHOWN ARE DUE TO NO RESPONSE TO KANSAS ONE-CALL.

UTILITIES SHOWN REPRESENT THE BEST INFORMATION AVAILABLE FOR DESIGN. ADDITIONAL UTILITIES MAY BE PRESENT ON THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, DEPTH AND SIZE OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE CAUSED BY THE FAILURE TO DO SO.



PLAN/PROFILE
SANITARY SEWER IMPROVEMENTS
NW OF 31ST ST. SOUTH & OLIVER INTERSECTION
CED PROJ. NO.: 2000687
CERTIFIED ENGINEERING DESIGN, P.A.
810 WEST DOUGLAS, SUITE C
WICHITA, KANSAS 67203
PH.(316)262-8808 FAX.(316)262-1669

DESIGNED: HDF
DRAWN: GWB
CHECKED: HDF

SCALE: 1" = 20'
DATE: 3/01
CED FILE: 31&oliver_pp1.dwg

SHEET 3
TOTAL 5