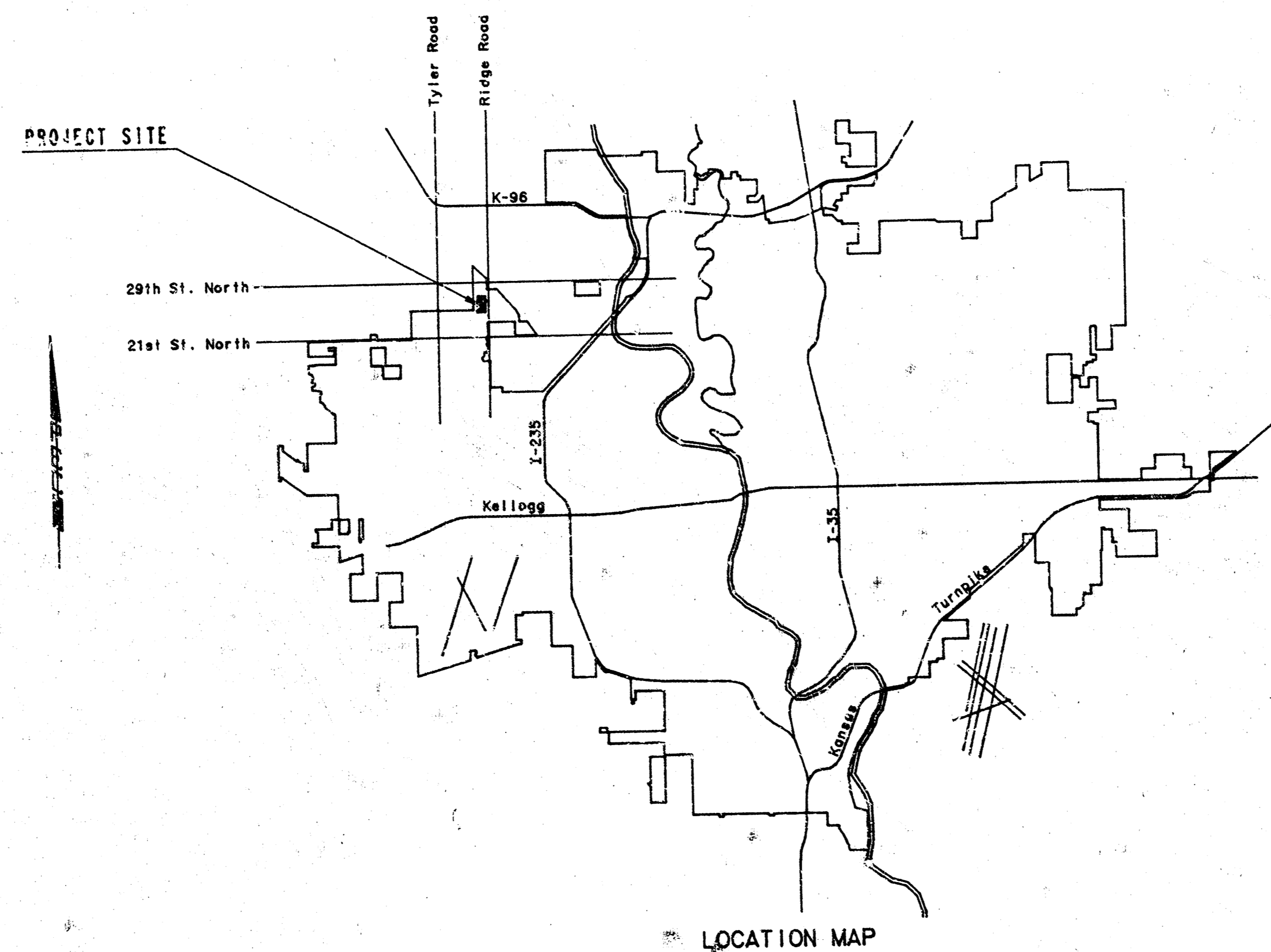


CONSTRUCTION PLANS FOR LIFT STATION AND FORCE MAIN

TO SERVE
LATERAL 21 AND 22, MAIN 15 OF THE
SOUTHWEST INTERCEPTOR SEWER

THE CITY OF WICHITA,
SEDGWICK COUNTY, KANSAS
MICHAEL E. LINDEBAK, P.E. - CITY ENGINEER



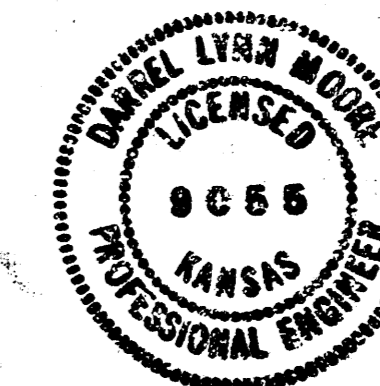
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INDEX CODE 740712
CITY OF WICHITA PROJECT NO. 468-76-245-82097-000

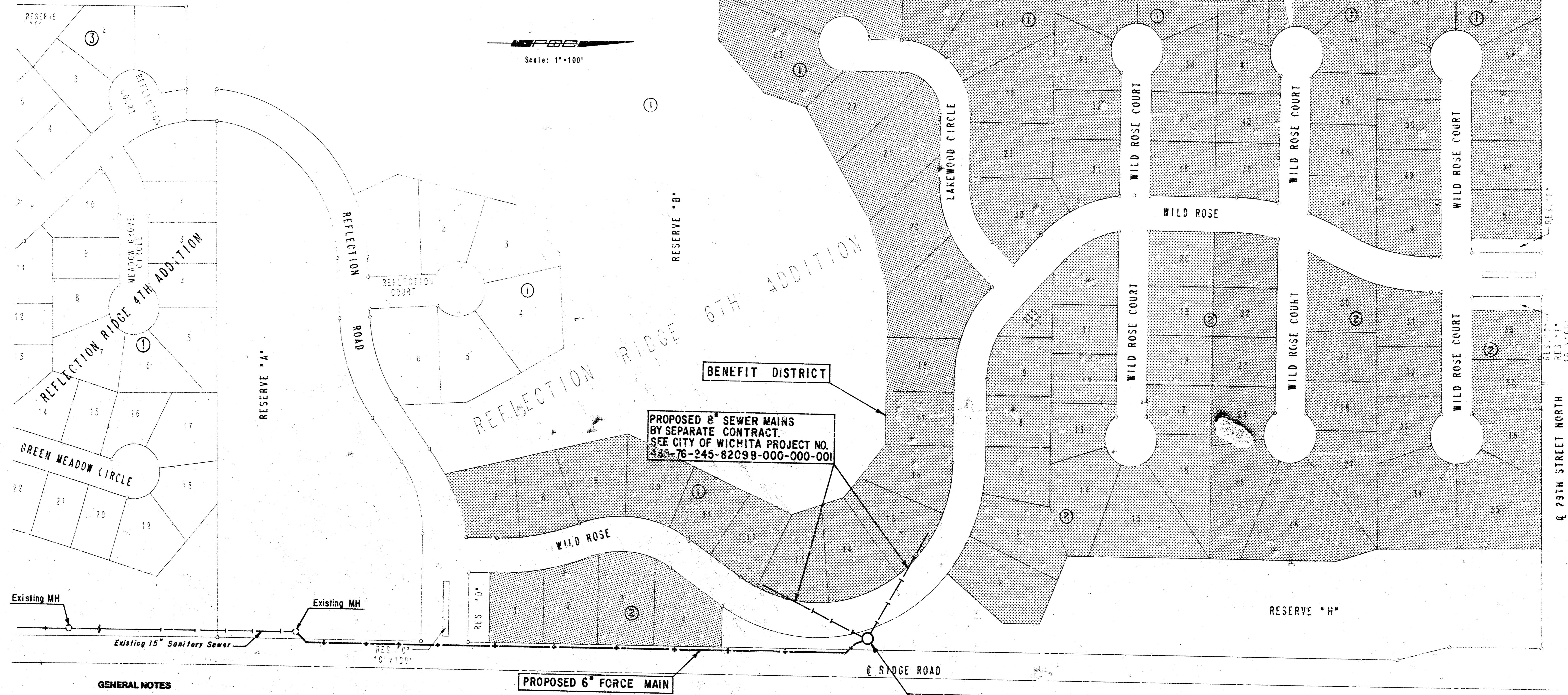
MAY, 1991

PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS



*Booked
4-30-92
JKB*

DRAWING MADE BY: JLS, TLL
CHECKED BY: JLS, TLL
DATE: MAY 11, 1991



GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS TO COMPLY WITH CITY OF WICHITA SPECIFICATIONS AND STANDARDS.
2. ALL ELEVATIONS SHOWN ARE CITY OF WICHITA DATUM (USGS - 1187.18 = CITY DATUM).
3. THE CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH TO REMAIN OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
4. AT LEAST 48 HOURS PRIOR TO BEGINNING EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS), THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT (816) 887-2470 TO REQUEST THE FOLLOWING UTILITY COMPANIES TO LOCATE ANY EXISTING LINES WITHIN THE PROJECT AREA: ARKLA, K.G. & E., THE WICHITA WATER DEPARTMENT, MULTIMEDIA TELEVISION, AND SOUTHWESTERN BELL TELEPHONE.
5. 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 LOCATIONS, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR THE DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
6. 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 OTHER ITEMS OF WORK.
7. ALL LAWN/TURF AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE RESTORED WITH THE SAME GRASS/SOD AS EXISTING. RESTORATION OF DISTURBED AREAS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP SOIL PREPARATION, SEEDING, MULCH, AND/OR RESEEDING. ALL SEEDING/SODDING WORK SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS AND THE CITY OF WICHITA ADMINISTRATIVE REGULATION NO. 072 WHICH GOVERNS CLEANUP AND RESTORATION OR REPLACEMENT FOLLOWING CONSTRUCTION. ALL COSTS FOR THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.
8. EXCESS EXCAVATED MATERIAL SHALL BE STOCKPILED WITHIN THE LIMITS OF REFLECTION RIDGE 6TH ADDITION AS APPROVED BY THE ENGINEER. STOCKPILE LOCATIONS SHALL BE AS DIRECTED BY MR. MARVIN SCHELLENBERG, VICE PRESIDENT, REFLECTION RIDGE, INC. AT 721-2153. COSTS FOR STOCKPILING SHALL BE SUBSIDIARY TO THE PROJECT.
9. WHERE TREE TRIMMING OR TREE REMOVAL IS REQUIRED OUTSIDE THE LIMITS OF THE GOLF COURSE, THE CONTRACTOR SHALL PERFORM SUCH WORK AS APPROVED BY THE ENGINEER. PRIOR TO BID PREPARATION FOR THIS PROJECT THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO DETERMINE THE EXTENT OF TREE TRIMMING/TREE REMOVAL TO BE PERFORMED. THE PROPERTY OWNER IS CURRENTLY HAVING SOME SITE CLEARING PERFORMED BY PRIVATE CONTRACT. ALL COSTS FOR TREE TRIMMING/TREE REMOVAL SHALL BE SUBSIDIARY TO THE LUMP SUM PRICE BID FOR "SITE CLEARING".
10. WHERE TREE TRIMMING OR TREE REMOVAL IS REQUIRED WITHIN OR ADJACENT TO THE GOLF COURSE, THE CONTRACTOR SHALL COORDINATE SUCH WORK WITH THE GOLF COURSE SUPERINTENDENT, MR. JOHN WRIGHT AT 721-9453. SUCH TREE TRIMMING OR TREE REMOVAL SHALL BE SUBSIDIARY TO THE LUMP SUM PRICE BID FOR "SITE CLEARING".
11. ALL TREE TRIMMINGS OR TREES REMOVED SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. OFF SITE DISPOSAL AREA SHALL BE AS APPROVED BY THE ENGINEER.
12. WHERE RELOCATION, REMOVAL, OR ADJUSTMENTS TO THE GOLF COURSE IRRIGATION SYSTEM ARE REQUIRED DUE TO THE CONSTRUCTION OF THE SANITARY SEWER, THE GOLF COURSE SUPERINTENDENT SHALL PERFORM SUCH WORK. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION OPERATIONS WITH THE GOLF COURSE SUPERINTENDENT, MR. JOHN WRIGHT AT 721-9453 AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION IN THESE AREAS. RESTORATION OF THE IRRIGATION SYSTEM SHALL BE THE RESPONSIBILITY OF THE GOLF COURSE SUPERINTENDENT.
13. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION OF THE 6" FORCE MAIN UNTIL AFTER THE 1991 BEN HOGAN WICHITA CHARITY CLASSIC GOLF TOURNAMENT WHICH HAS BEEN SCHEDULED FOR JULY AT THE REFLECTION RIDGE GOLF COURSE. THE CONTRACTOR SHALL CONTACT MR. MARVIN SCHELLENBERG, VICE PRESIDENT-REFLECTION RIDGE, INC. TO DETERMINE THE EXACT GOLF TOURNAMENT DATES. CONSTRUCTION OF THE WET WELL AND LIFT STATION MAY BE PERFORMED DURING THE GOLF TOURNAMENT. HOWEVER, IMMEDIATELY FOLLOWING THE CONCLUSION OF THE GOLF TOURNAMENT, THE CONTRACTOR SHALL CONSTRUCT THE 6" FORCE MAIN IN ITS ENTIRETY INCLUDING MEETING ALL CITY OF WICHITA TESTING AND INSPECTION REQUIREMENTS.

DRAWING NAME: 34-01081-4 SS KEY
 LOCATION: SEWID DA DRG 4 307
 CENTER COORDINATES:
 DATE ISSUED: MARCH 1991
 SPECIAL INSTRUCTIONS:

STATE OF KANSAS
 LICENSED
 PROFESSIONAL ENGINEER
 9055

No.	Revision	By	Date

LATERAL 21 AND LATERAL 22, MAIN 15
 OF THE SOUTHWEST INTERCEPTOR SEWER

KEY MAP AND GENERAL NOTES

MICHAEL C. LINDBERG, P.E. - CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 468-76-245-82097-000-000-001

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS

Designed by *DLM, RFV*

Job No. *34-01081-3*

Sht. *2* of *6*

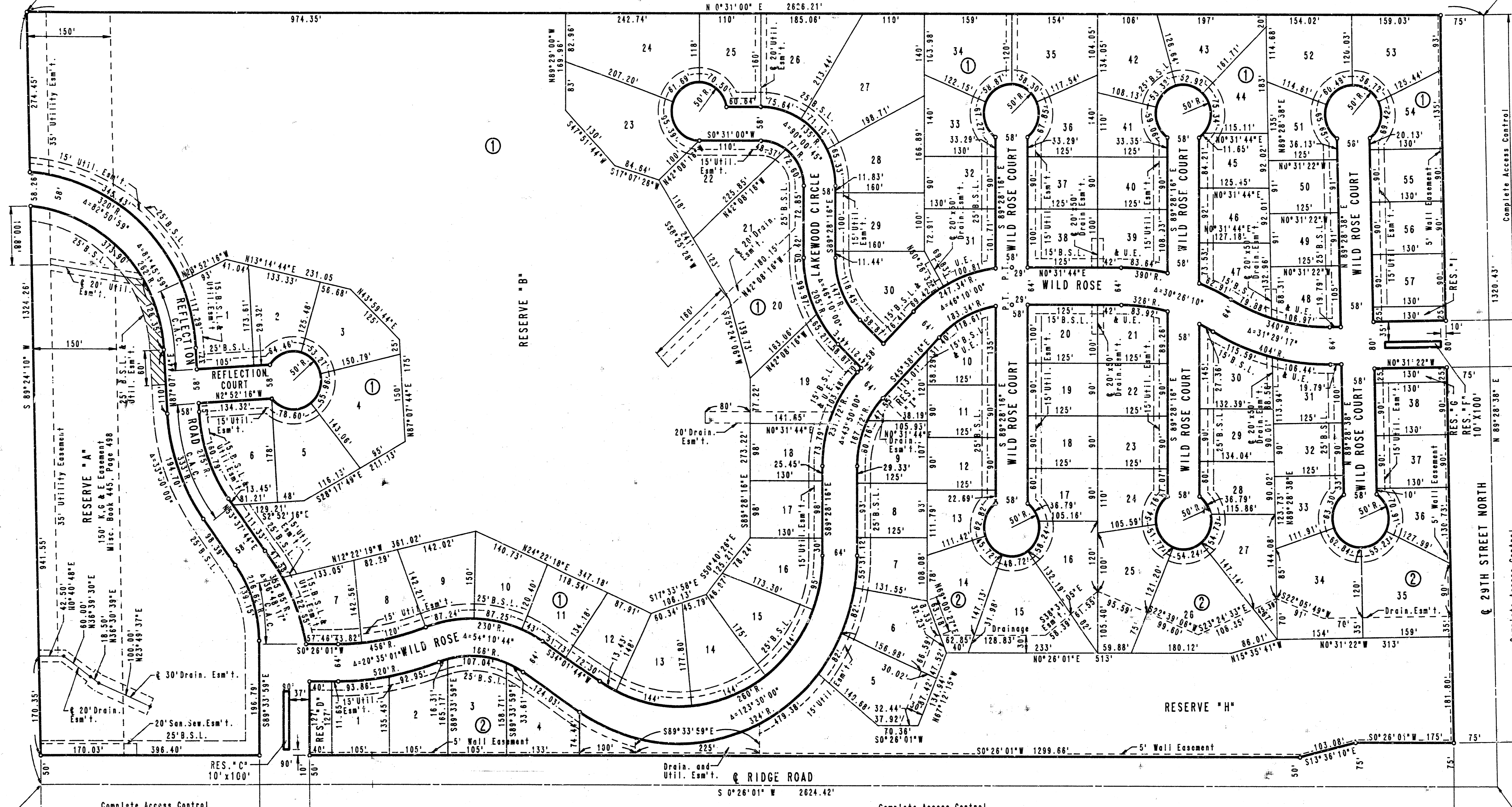
Drawn by *TDS, TJS*

Date *March, 1991*

REFLECTION RIDGE 6TH ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

S.W. COR. E. 1/2, N.E. 1/4
SEC. 4, T27S, R1W
OF THE 6TH P.M.

N.W. COR. E. 1/2, N.E. 1/4
SEC. 4, T27S, R1W
OF THE 6TH P.M.



SCALE: 1"=100'
○ = IRON SET

U.E. = UTILITY EASEMENT
B.S.L. = BUILDING SETBACK LINE
C.A.C. = COMPLETE ACCESS CONTROL

N.W. - CHISELED "D" N.E. COR. 3-7' X 3' RIB
BRIDGE ON RIDGE ROAD 175' NORTH OF
S.E. COR. N.E. 1/4 SEC. 4, T27S, R1W
ELEV. +132.54 M.S.L.
ELEV. +138.52 CITY DATUM

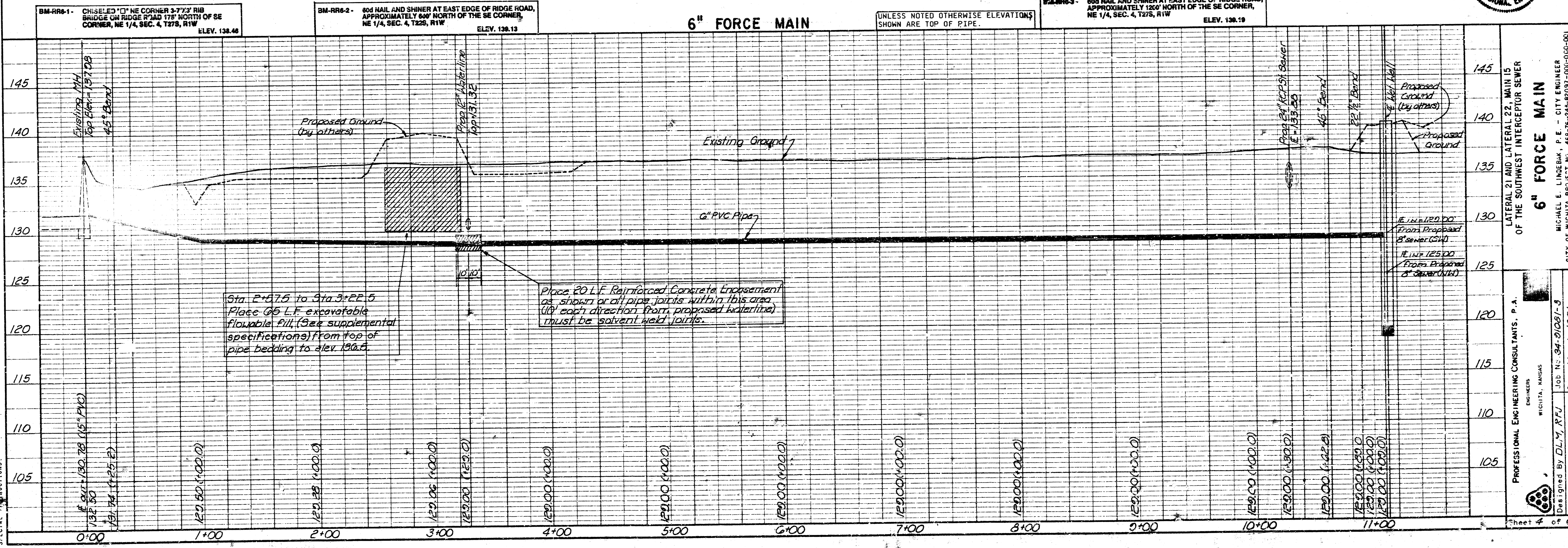
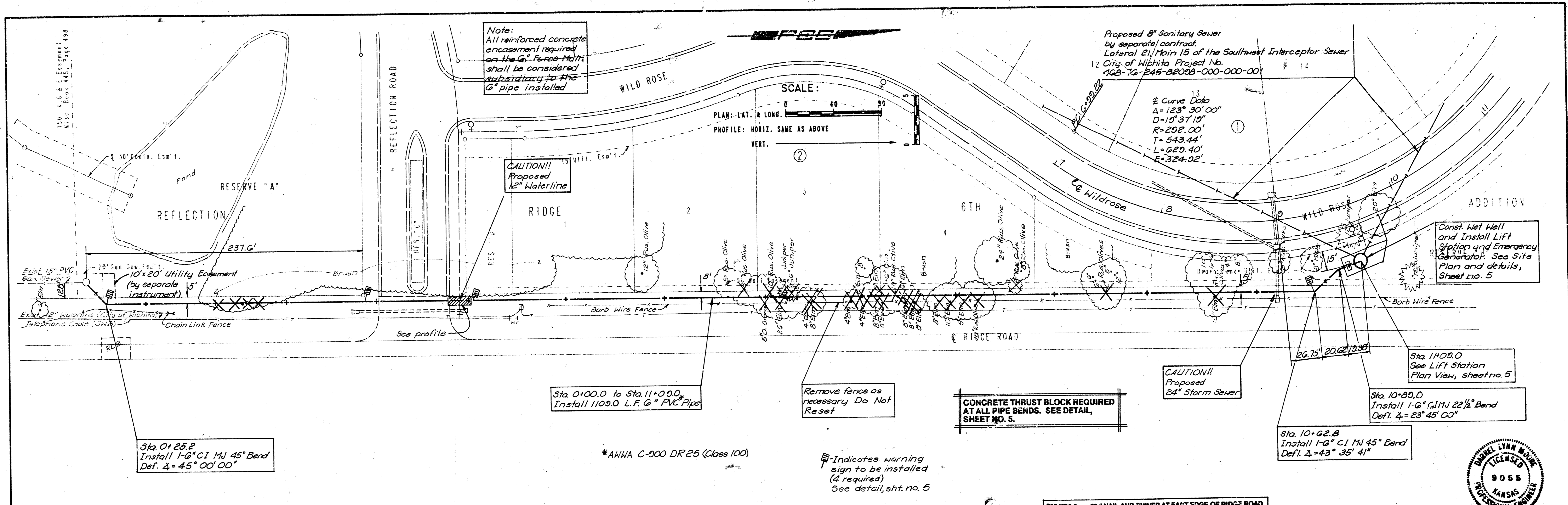
MINIMUM PAD ELEVATIONS (LOWEST OPENING)
ALL LOTS = 1327.5 M.S.L.

S.E. COR. N.E. 1/4
SEC. 4, T27S, R1W
OF THE 6TH P.M.

N.E. COR. N.E. 1/4
SEC. 4, T27S, R1W
OF THE 6TH P.M.

DRAWING NAME: 34-91081-3 SS PLAT
LOCATION: 2710 DA DR # 304
CENTER COORDINATES:
DATE L.A.S. WORKED ON: FEB 23, 1991
SPECIAL INSTRUCTIONS:

No.	Revision	By	Date
	LATERAL 21 AND LATERAL 22, MAIN 15 OF THE SOUTHWEST INTERCEPTOR SEWER		
	PLAT		
	MICHAEL E. LINDEBAK, P.E. - CITY ENGINEER CITY OF WICHITA PROJECT NO. 468-78-245-82097-000-000		
	PROFESSIONAL ENGINEERING CONSULTANTS, P.A. ENGINEERS WICHITA, KANSAS		
Designed by	Job No. 34-91081-3	Sht. 3 of 6	
Drawn by TDS	Date March, 1991		



DRAWING NAME: 14-S-1081-3 BK-FN1
 LOCATION: STATION 0+00, DBC # 489
 CENTER COORDINATES:
 DATE LINES WORKED ON: FEB 23, 1991
 SPECIAL INSTRUCTIONS:

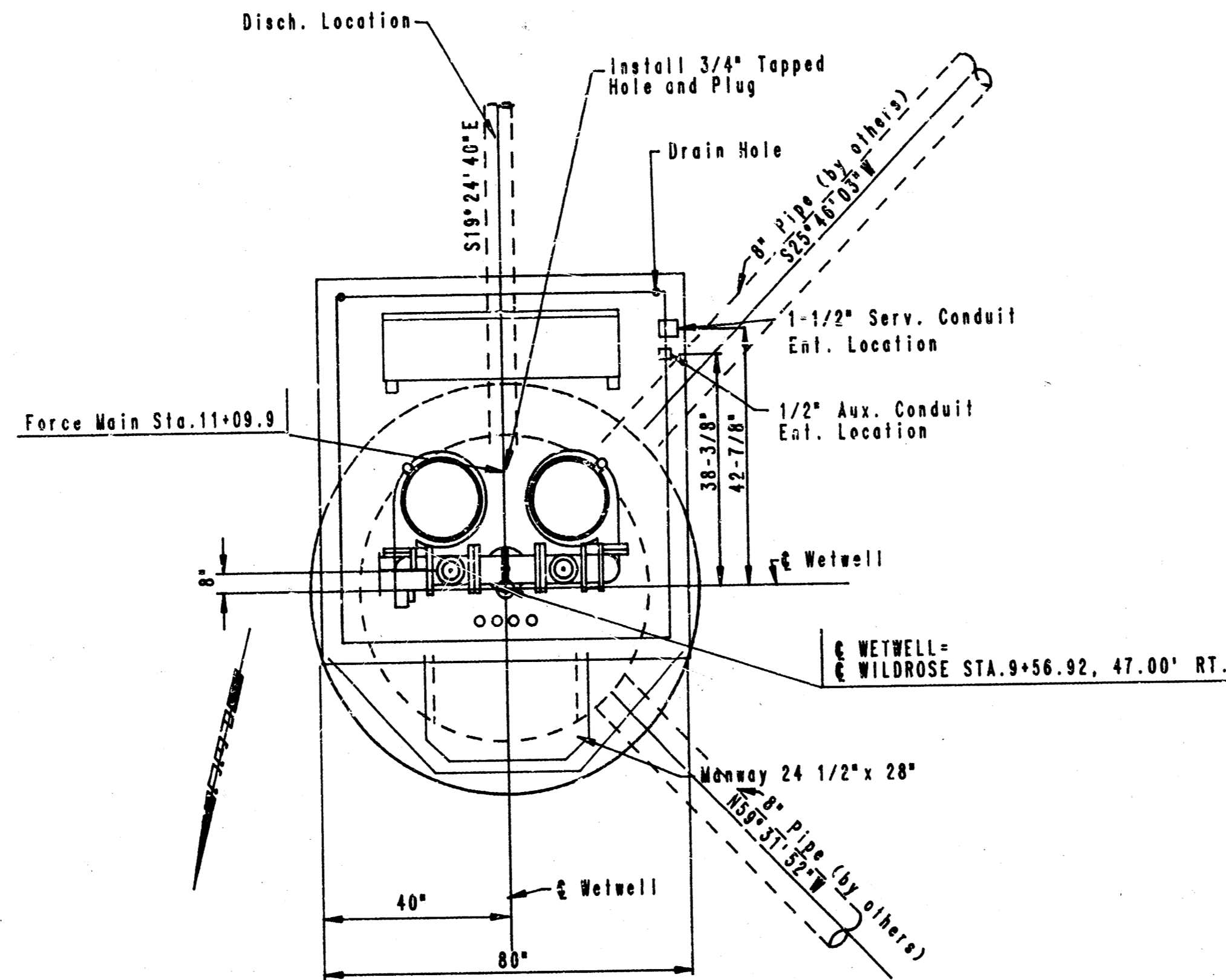


PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 WICHITA, KANSAS
 L.S. No. 94-21051-3
 Designed By: D.L.M., R.F.U.
 Drawn By: T.S.S., T.S.S.
 CITY OF WICHITA, PROJECT NO. 468-76-245-82091-000-000-001

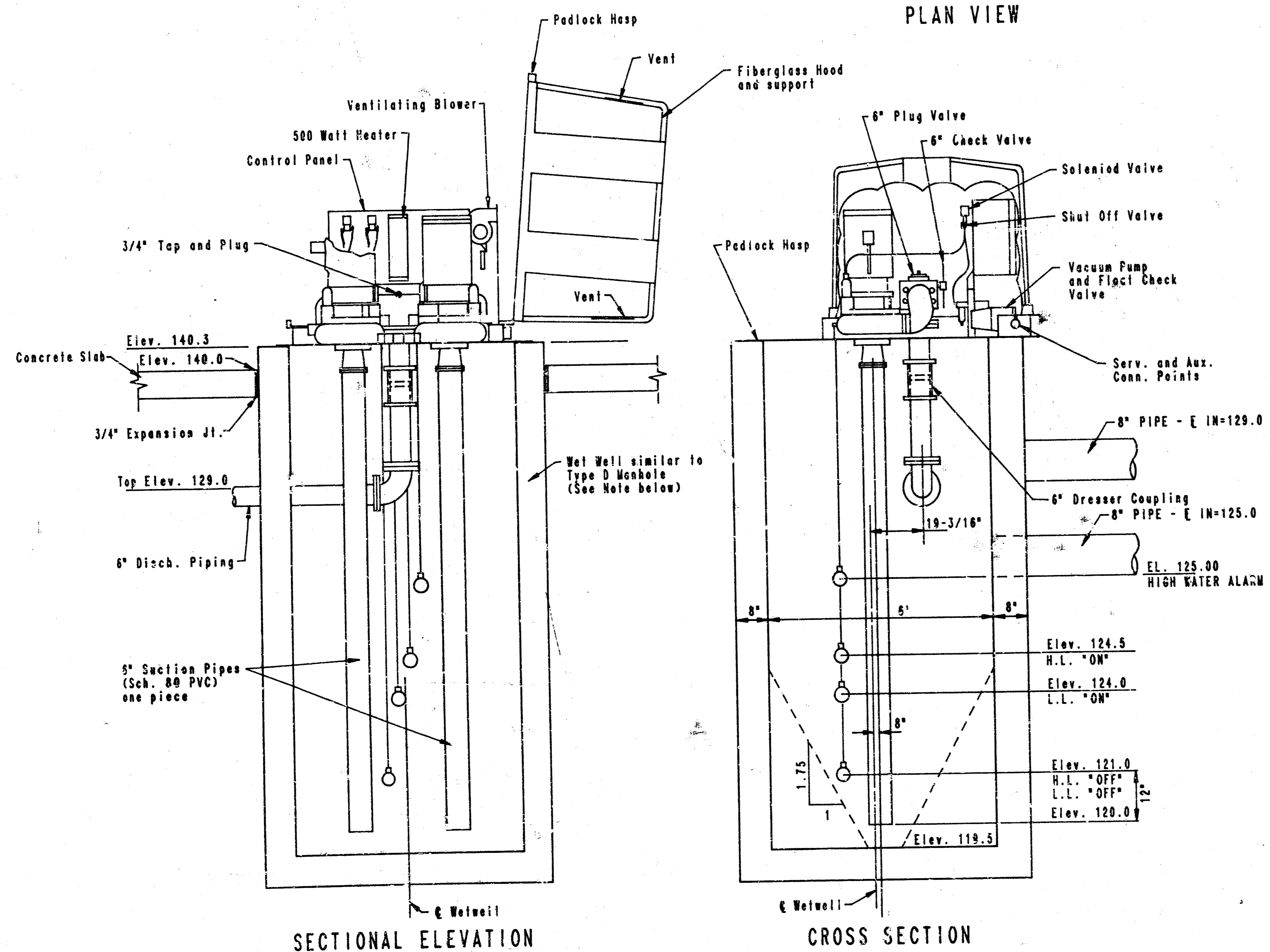
PUMP	FLOW	TQH	MOTOR HP	IMPELLER DIA.	RPM	ELECT. SERV. REQ.	MOTOR CODE	PUMP EFFICIENCY
No. 1 4828	250 gpm	16 ft	5 hp	7 inch	1170	208V, 60HZ, 3Ø, 4-Wire	H	62%
No. 2 4828	250 gpm	16 ft	5 hp	7 inch	1170	208V, 60HZ, 3Ø, 4-Wire	H	62%

NOTES:

- THE PRICE BID FOR FURNISHING AND INSTALLING THE NET WELL MOUNTED LIFT STATION WITH STANDBY EMERGENCY POWER AND MISCELLANEOUS APPURTENANCES COMPLETE IN PLACE SHALL INCLUDE ALL COSTS FOR FURNISHING AND INSTALLING THE LIFT STATION AND STANDBY EMERGENCY POWER AS INDICATED IN THE PLANS COMPLETE IN PLACE AND IN OPERATION. THIS PRICE SHALL INCLUDE THE COST OF CONSTRUCTING AND/OR INSTALLING COMPACTED SUBGRADE, CONCRETE PAD, POWER POLE, ELECTRICAL CONDUIT, ELECTRICAL WIRING, DISCONNECT SWITCH, PRIMARY AND SECONDARY ELECTRICAL POWER SUPPLY, NATURAL GAS FUEL SUPPLY, PIPING, FINISHED GRADING AND ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGEMENTS WITH THE GAS COMPANY FOR EXTENSION OF GAS SERVICE TO THE LIFT STATION SITE, AND FOR PAYMENT OF COSTS OF SUCH EXTENSION AND METER SETTINGS. LOCATION OF METER TO BE ACCEPTABLE TO GAS SERVICE COMPANY AND TO CITY OF WICHITA SEWER MAINTENANCE DIVISION.



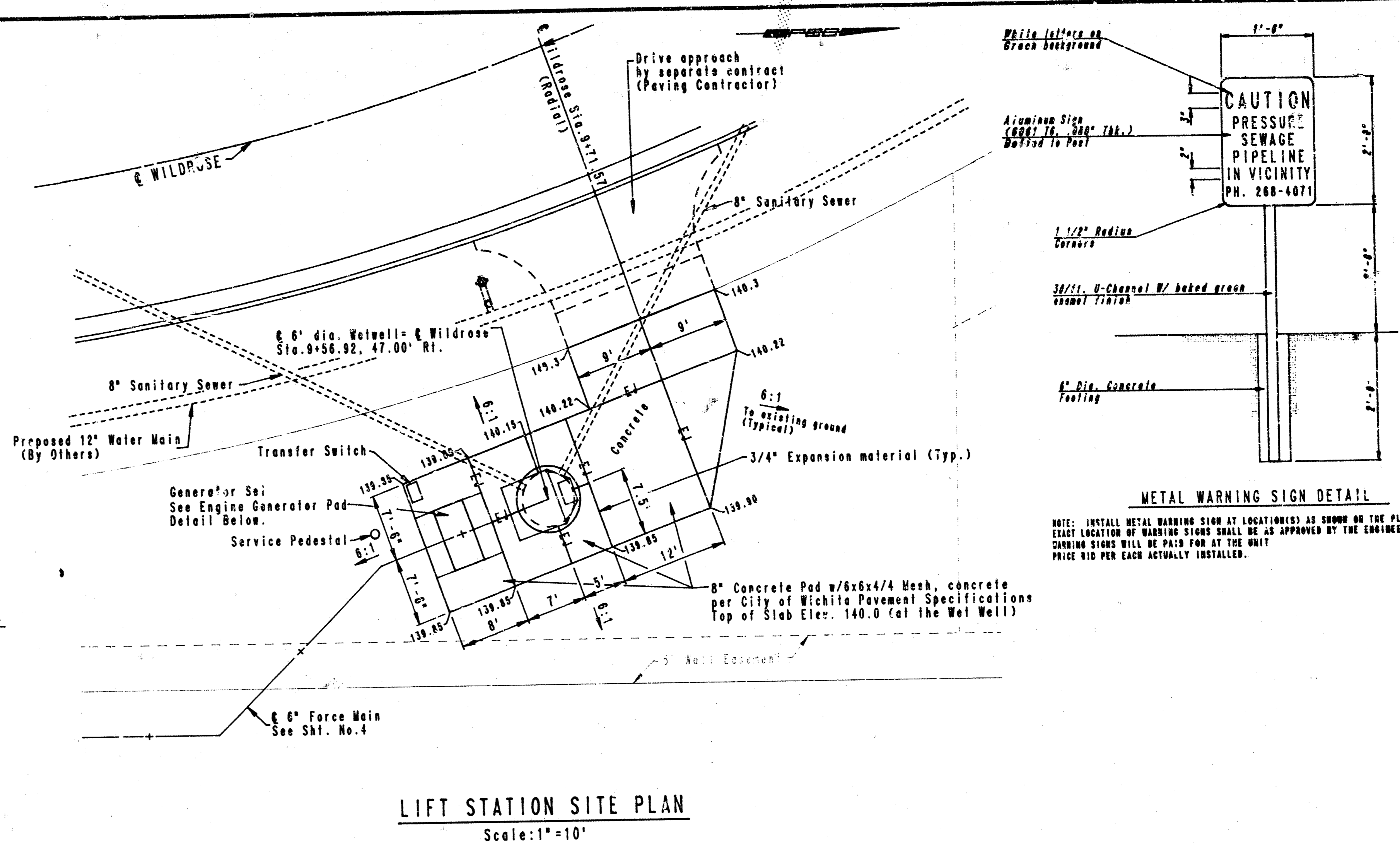
PLAN VIEW



SECTIONAL ELEVATION

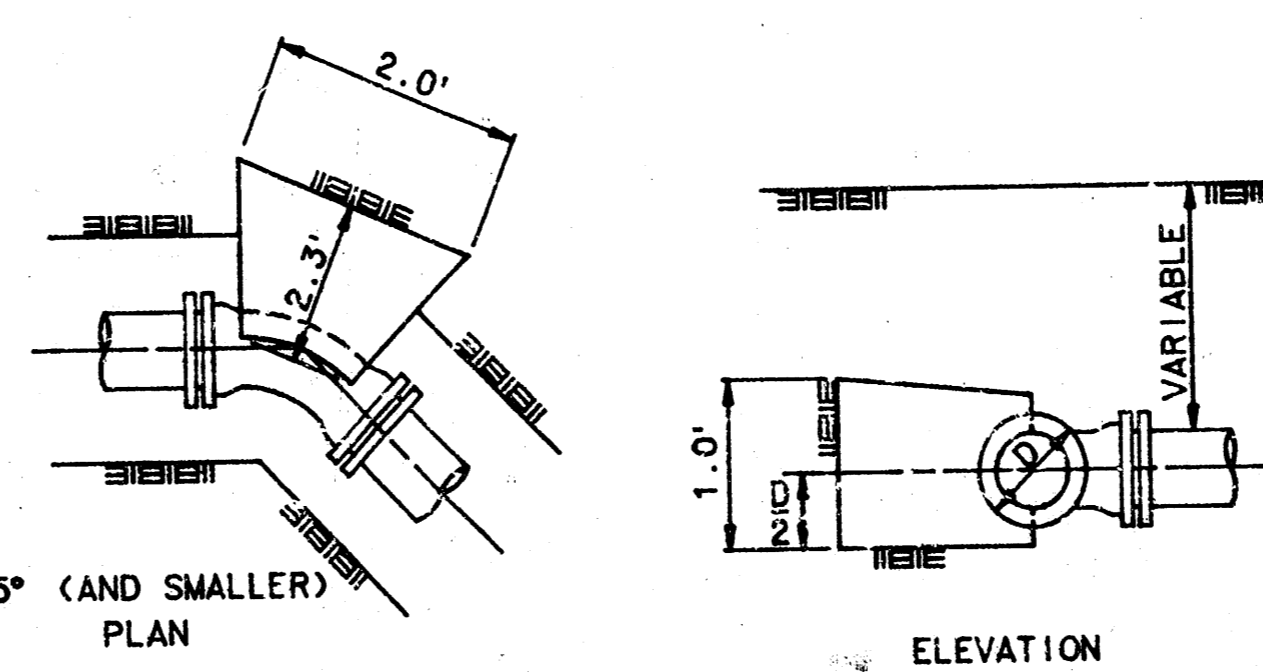
CROSS SECTION

NOTE: The Wet Well Interior Liner may be substituted with 2 coats TMEC Series 68H-Build Eposolino, Dry Thickness of 8 Mills, in lieu of a Plastic Liner.

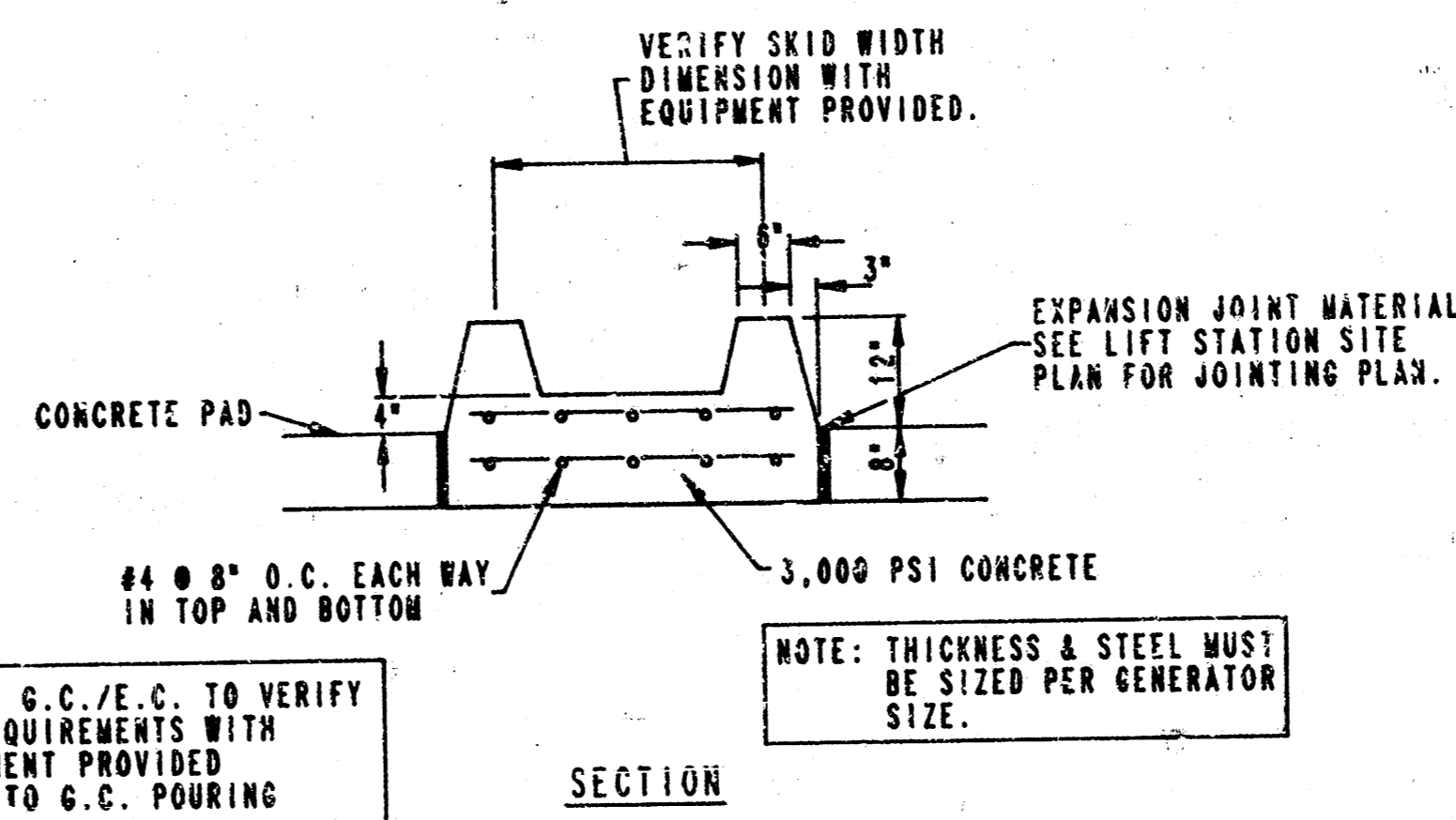


LIFT STATION SITE PLAN

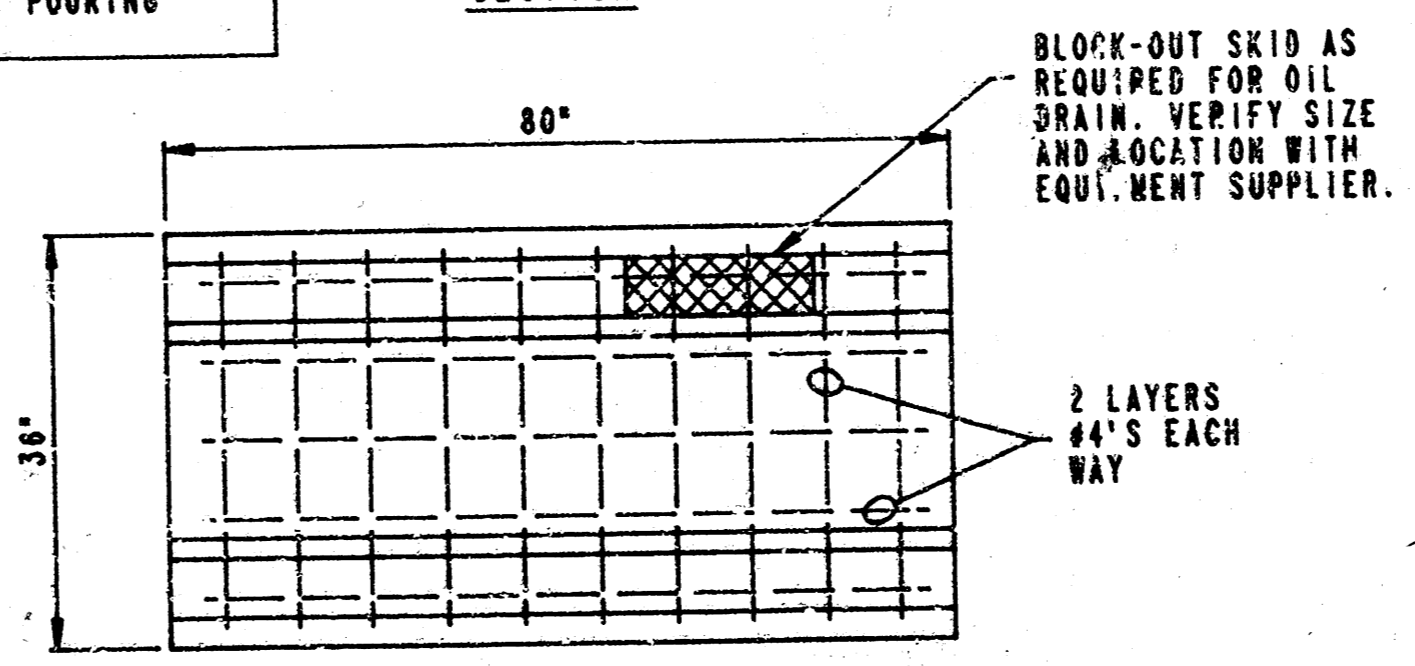
Scale: 1"=10'



THRUST BLOCK DETAILS

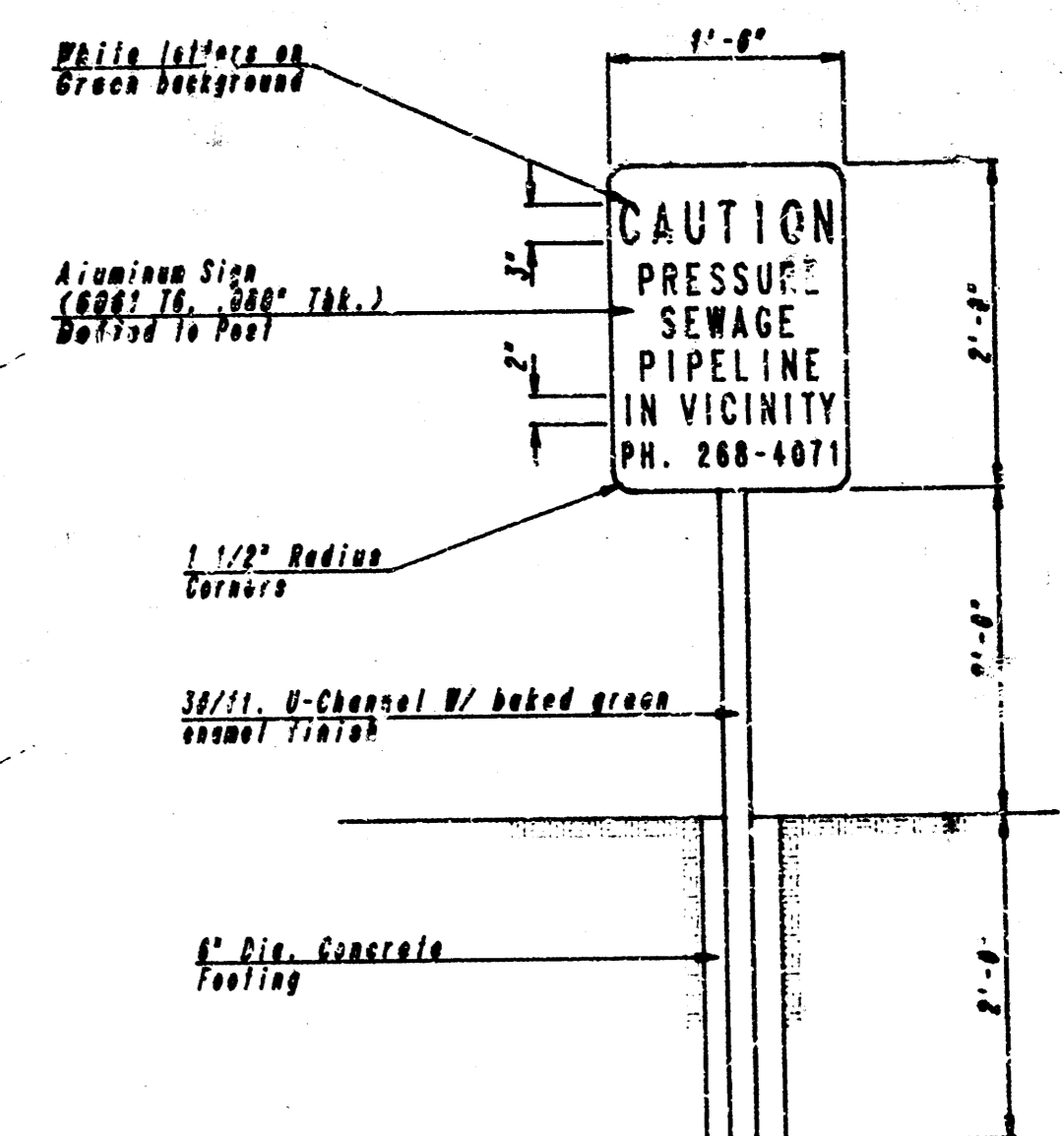


SECTION



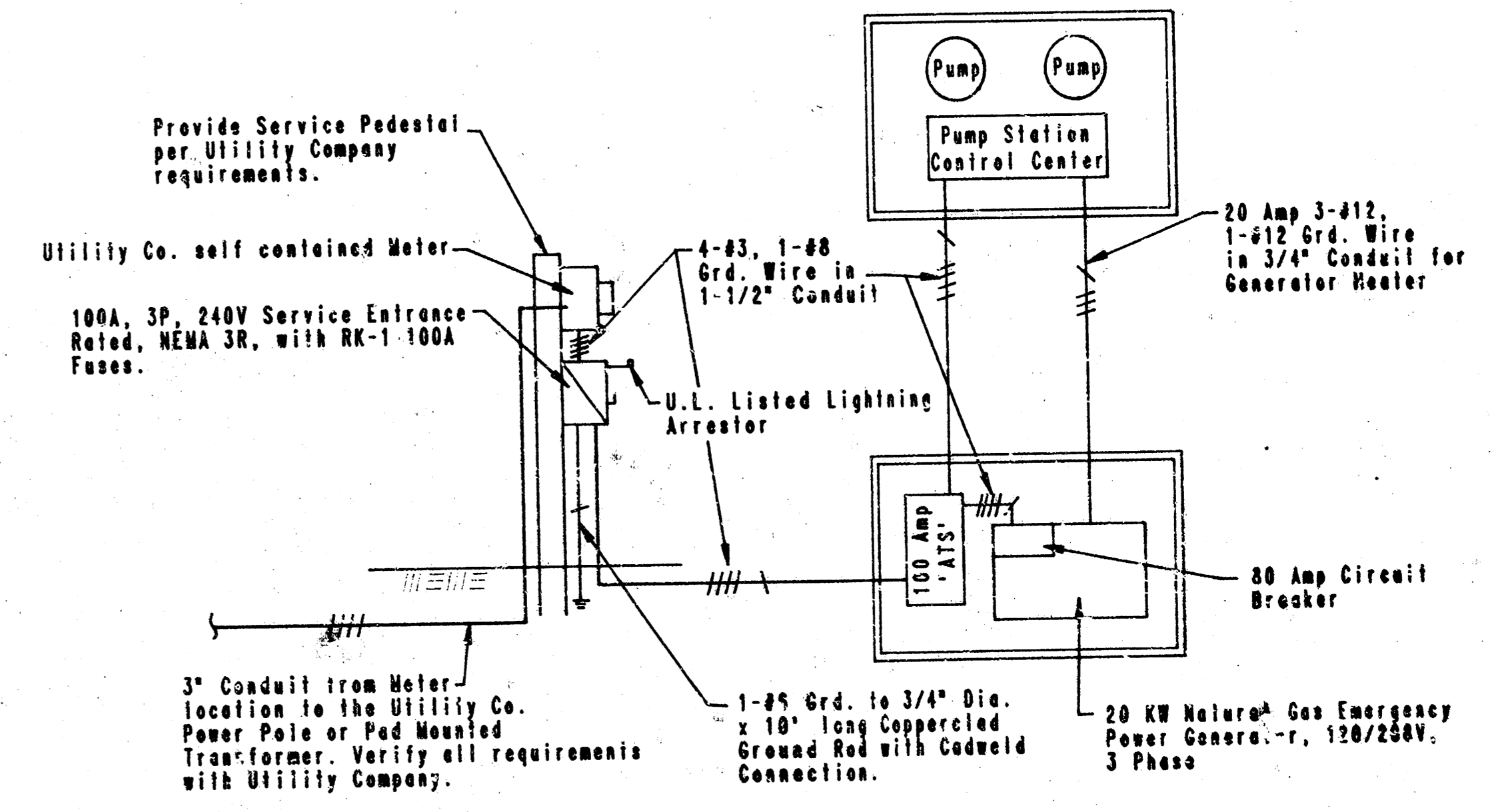
ENGINE GENERATOR PAD DETAIL

Scale: 1/2"=1'-0'
VERIFY EXACT SIZE WITH UNIT PROVIDED - +0" EACH SIDE



METAL WARNING SIGN DETAIL

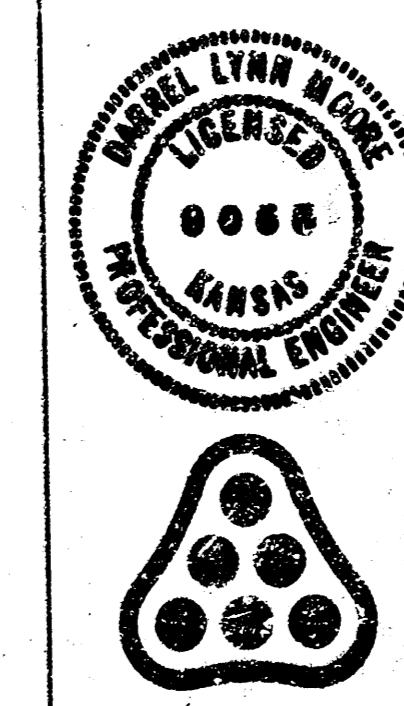
NOTE: INSTALL METAL WARNING SIGN AT LOCATIONS AS SHOWN ON THE PLANS. EXACT LOCATION OF WARNING SIGNS SHALL BE AS APPROVED BY THE ENGINEER. CHARGES SHALL BE PAID FOR BY THE OWNER. PRICE BID PER EACH ACTUALLY INSTALLED.



ELECTRICAL RISER DIAGRAM

- NOTE:
- Contractor shall provide a 3/4" conduit from the Pump Station to the Emergency Power Unit and from the Emergency Power Unit to the Service Pole for purposes of Alarm Cable Routing.
 - All Electrical work shall conform to local, state, N.E.C., and all other applicable codes.
 - Contractor shall verify location and Service Entrance requirements with KCAE.
 - Generator with standard equipment shall be equal to Kohler Model 20R2, Model R1283450100 for Automatic Transfer Switch.

DRAWING NAME: 34-91081-3 RRG L.S.
LOCATION: SEMI-DIG. 400
ACTION NUMBER: 113
DATE LAST WORKED ON: MAY 31, 1991
SPECIAL INSTRUCTIONS:



No.	Revision	By	Date

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK P.E., CITY ENGINEER
LIFT STATION DETAILS
C.O.B. Proj. No. 468-76-245-02087-000-000-042
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by DLW, DEH, DCG Job No. 34-91081-3
Drawn by RFD, TDS Date: May, 1991

Sht. 5 of 6

