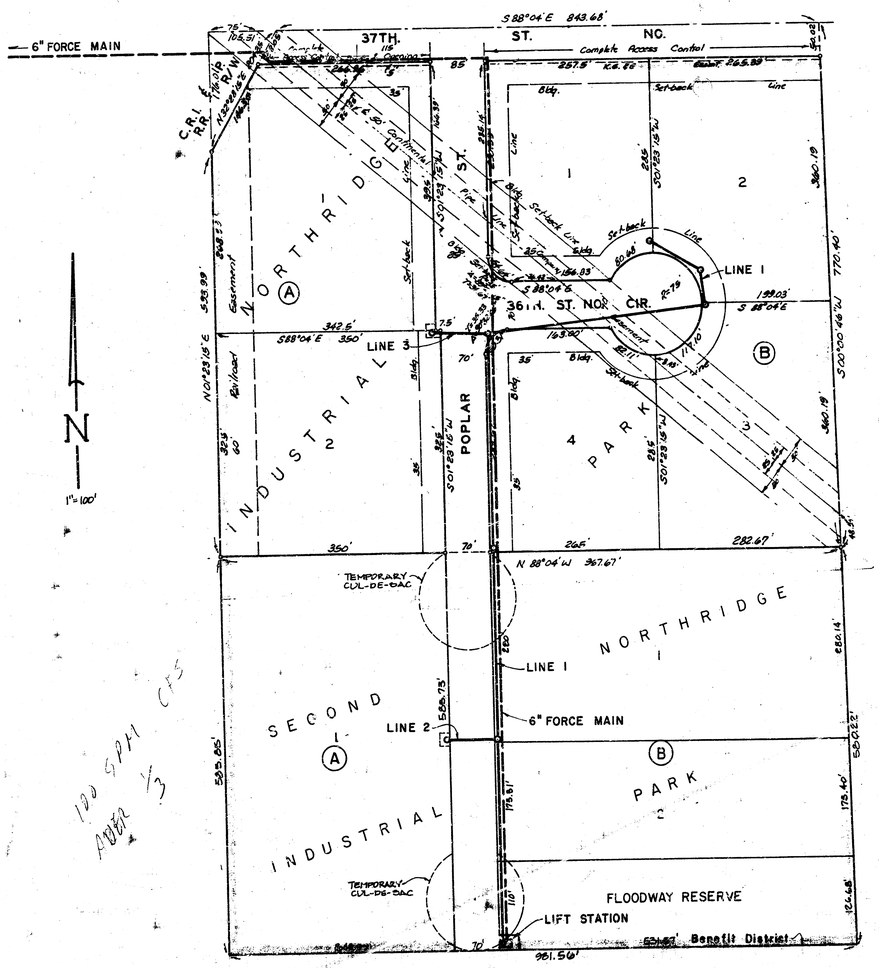
LATERAL 53, SANITARY SEWER No. 23
INCLUDING LIFT STATION

Project no. 468-76-245-81330-000-000-001

NORTHRIDGE INDUSTRIAL PARK

CITY OF WICHITA, KANSAS

MIKE E. LINDEBAK CITY ENGINEER



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As Built J.L.L. 5-85

100 GPM CFS ADDR 1/3

B.M. 163.00 City Datum - R.R. Spike in pole approx. 43.3' North & 71.7' East of the C.L. of 37th St. No. and Poplar.

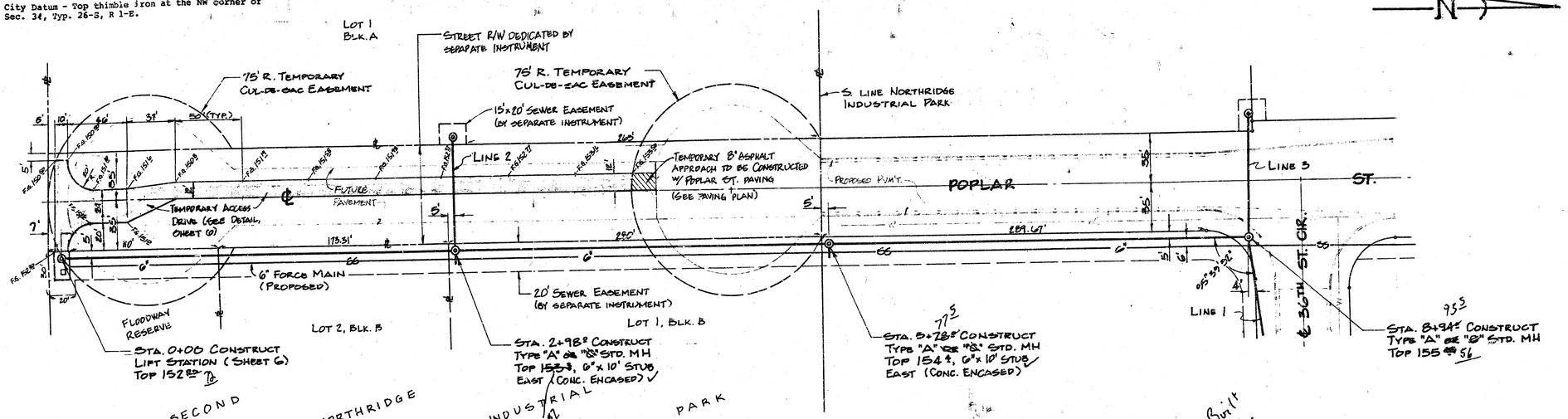
B.M. 164.25 City Datum - Top thimble iron at the NW corner of NE ¼, Sec. 34, Typ. 26-S, R 1-E.

JULY 1984

BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316/262-7271 • 330 LAURA • WICHITA, KANSAS 67211

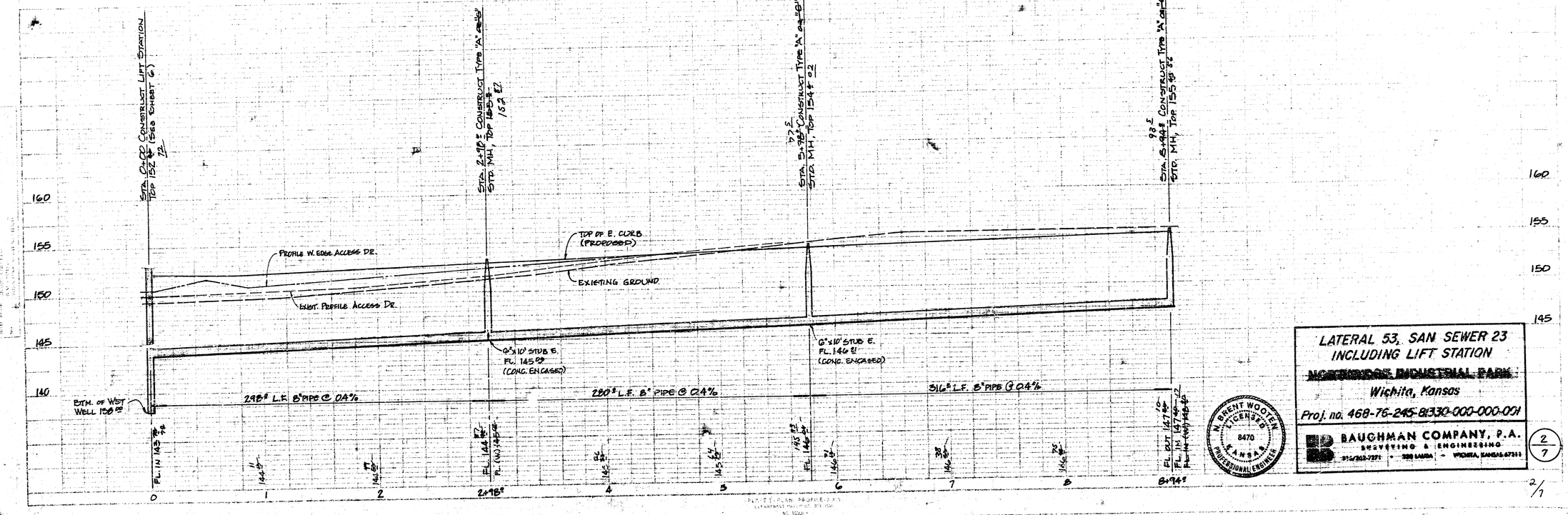
B.M. 163.00 City Datum - R.R. Spike in pole approx. 48.5' North & 71.7' East of the C.L. of 37th St. No. and Poplar.

B.M. 164.25 City Datum - Top thimble iron at the NW corner of NE ¼, Sec. 34, Typ. 26-S, R 1-E.



SCALE:
VERT. - 1"=5'
HORZ. - 1"=40'

LINE 1



PLAN & PROFILE
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 5'
NO. WEST

LATERAL 53, SAN SEWER 23
INCLUDING LIFT STATION
NORTHRIDGE INDUSTRIAL PARK
Wichita, Kansas
Proj. no. 468-76-245-81330-000-000-001

BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
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H. BRENT WOOTEN LICENSED KANSAS PROFESSIONAL ENGINEER 8470

2/7

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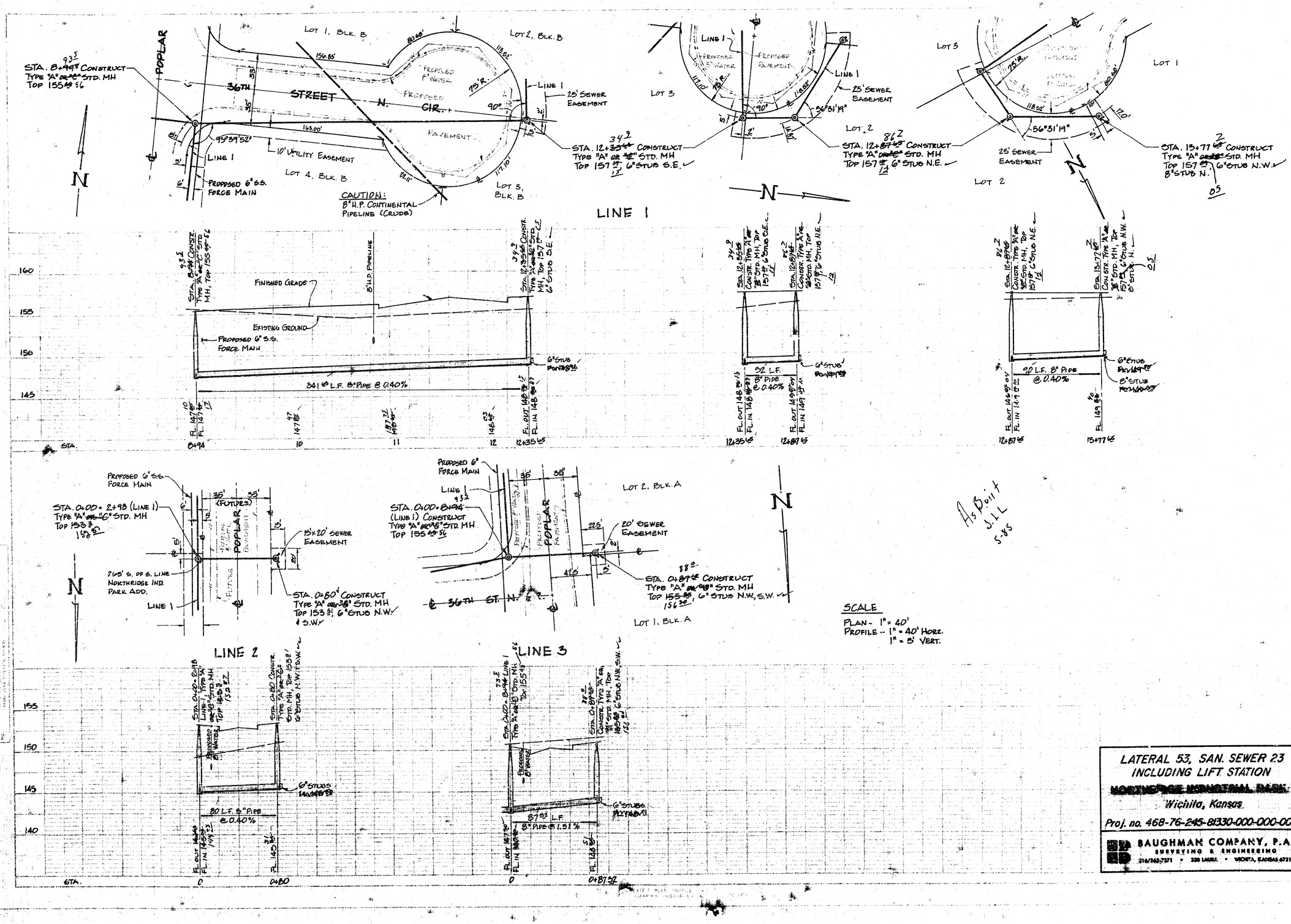

As Built J.L 5-85

SCALE
PLAN - 1" = 40'
PROFILE - 1" = 40' HORZ.
1" = 5' VERT.

LATERAL 53, SAN. SEWER 23
INCLUDING LIFT STATION
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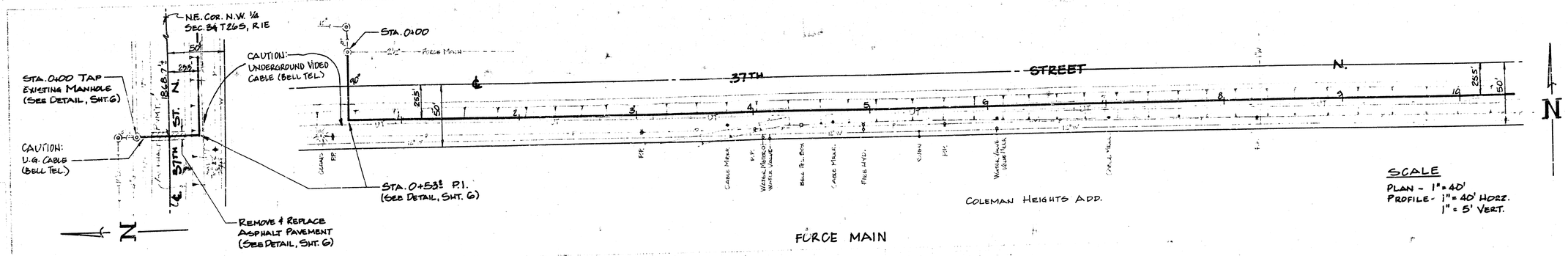
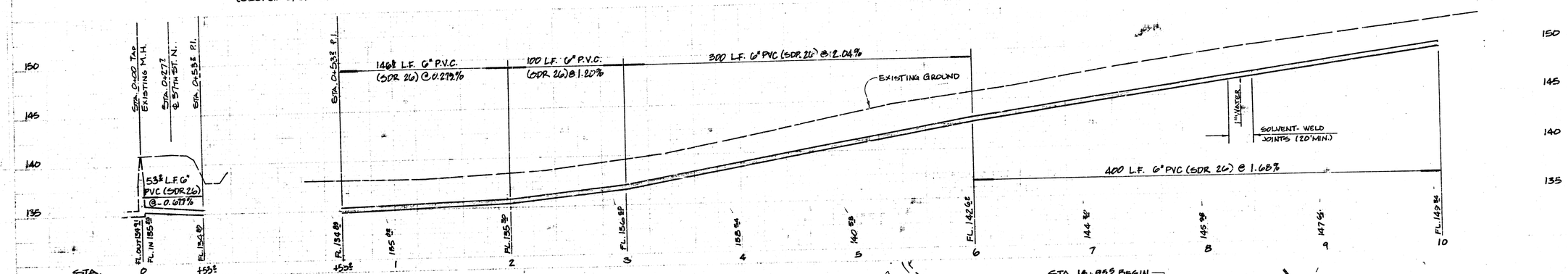
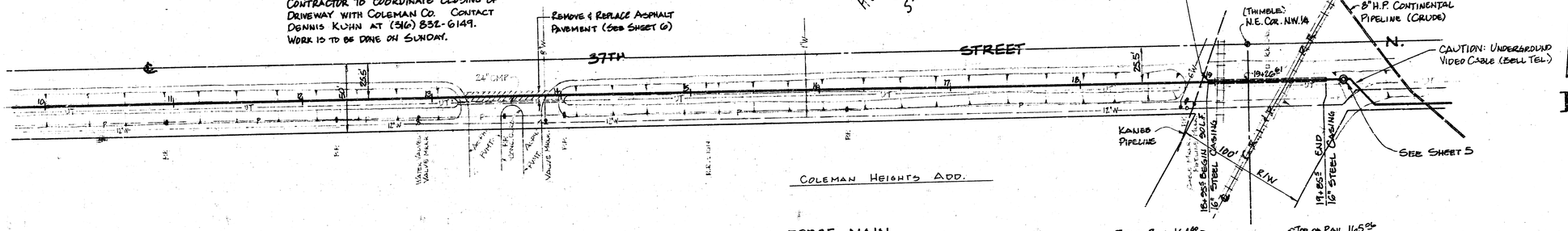


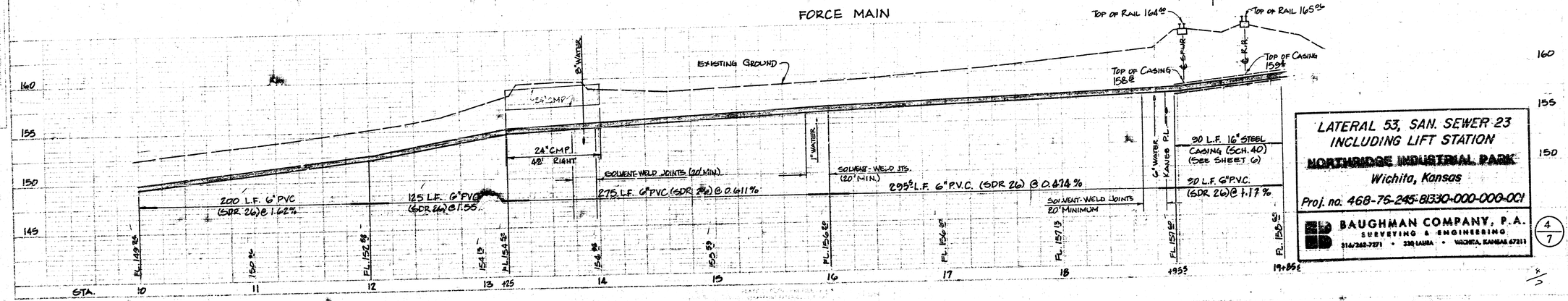
FORCE MAIN



NOTE:
CONTRACTOR TO COORDINATE CLOSING OF DRIVEWAY WITH COLEMAN CO. CONTACT DENNIS KUHN AT (316) 832-6149. WORK IS TO BE DONE ON SUNDAY.



FORCE MAIN



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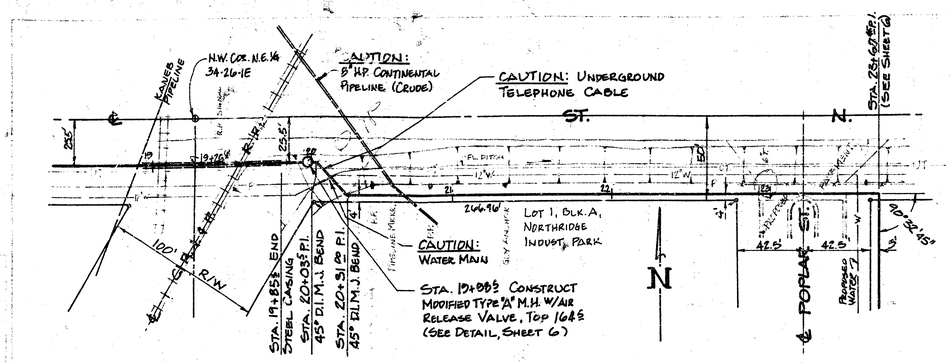

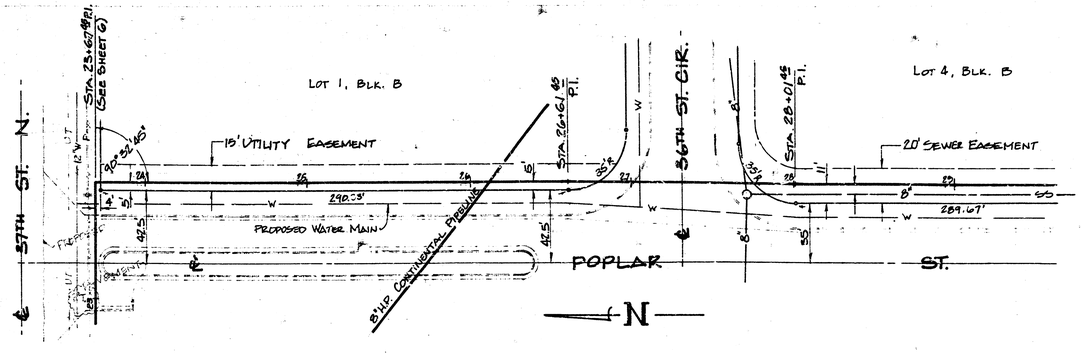

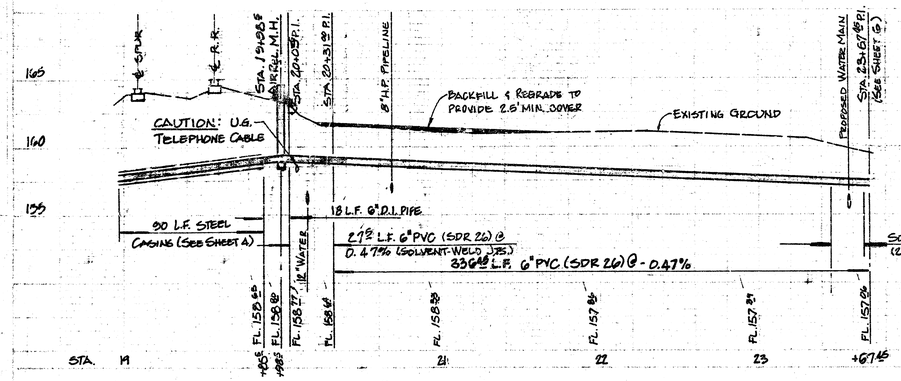

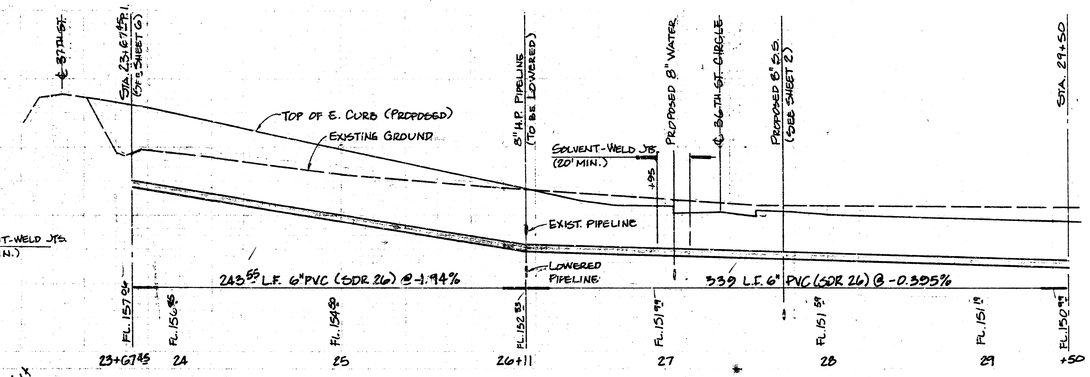

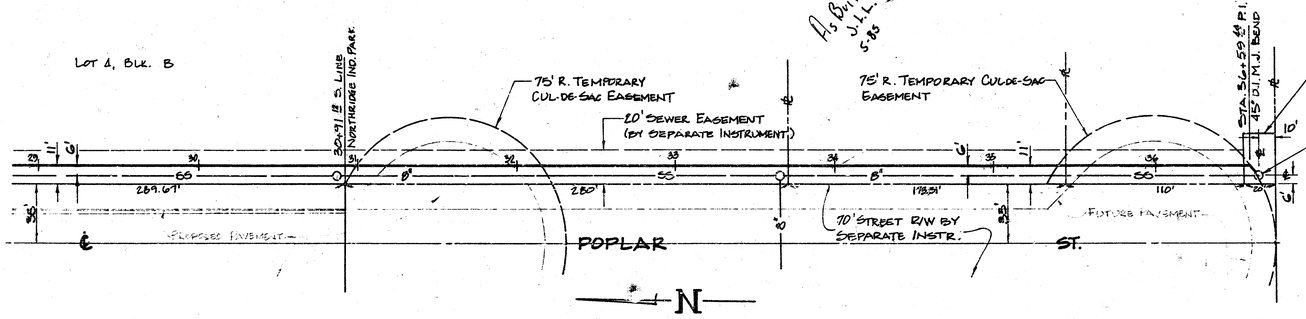

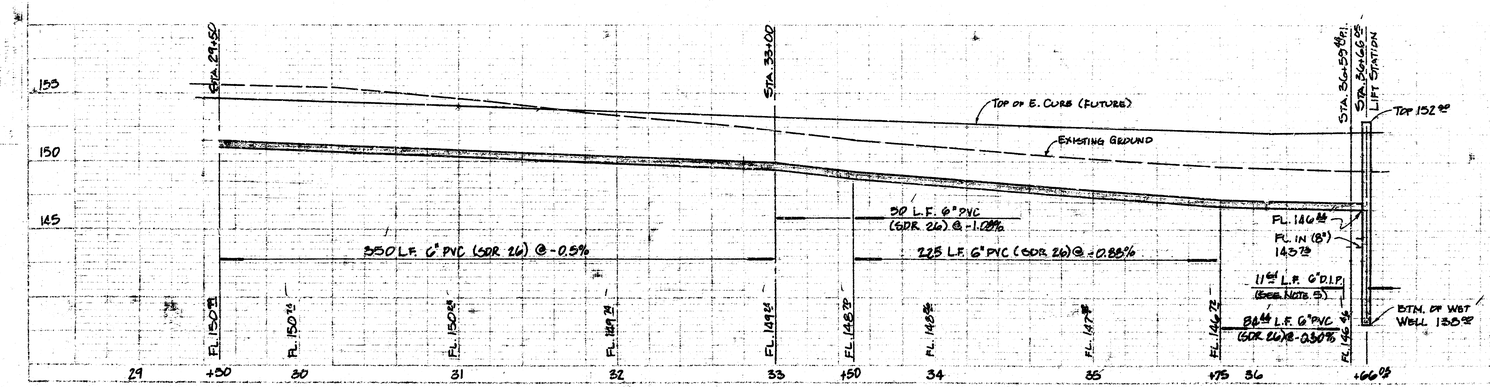

NOTES:

1. ALL DUCTILE IRON PIPE TO HAVE INERT LINING PER STANDARD SPECIFICATIONS.
2. THRUST BLOCKS TO BE INSTALLED AT ALL BENDS. SEE DETAIL, SHEET G.
3. VERTICAL CLEARANCE OF 1.0' MINIMUM REQUIRED FROM PETROLEUM PIPELINES.
4. NOTIFY THE FOLLOWING COMPANIES 48 HRS. BEFORE ANY EXCAVATION:

KAN-U-DIG-IT	267-2887
CONTINENTAL PIPELINE	800-231-2551
KANEB PIPELINE	262-1408
BELL TELEPHONE	ENTERPRISE 9800
WICHITA WATER DEPT.	268-4555

5. DUCTILE IRON PIPE SHALL EXTEND AT LEAST 5' BEYOND EXCAVATION FOR WET WELL.
6. CONTRACTOR SHALL ERECT MARKER SIGNS ALONG FORCE MAIN, PER SPECIAL PROVISIONS. SIGNS SHALL BE AT APPROXIMATELY THE FOLLOWING STATIONS: 04+53, 13+00, 20+31, 23+67.45, 30+91.12, & 36+50.
7. THAT PORTION OF WORK LOCATED IN 37TH STREET R/W SHALL NOT BEGIN UNTIL UTILITY PERMIT AGREEMENT WITH SEDGWICK COUNTY IS COMPLETED.
8. ANY GRASSED AREAS WITHIN 37TH ST. NO. RIGHT OF WAY THAT ARE DISTURBED SHALL BE SEEDED AS PER CITY SPECIFICATIONS. COST SHALL BE INCIDENTAL TO THE PROJECT.
9. CONSTRUCTION SHALL BE PHASED IN SUCH A MANNER THAT ALL 8" AND 6" STREET CROSSINGS SHALL BE COMPLETED AT THE EARLIEST POSSIBLE TIME.

SCALE

PLAN - 1" = 40'
PROFILE - 1" = 40' HORZ.
1" = 5' VERT.

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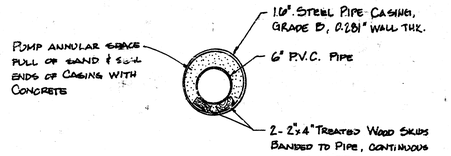
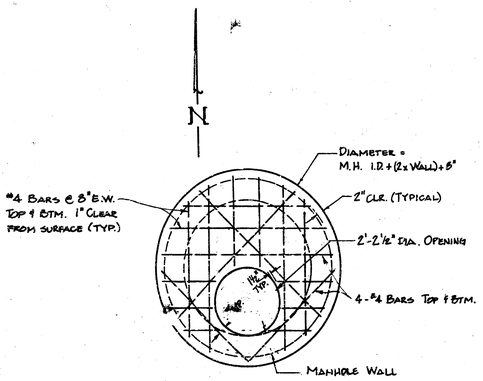
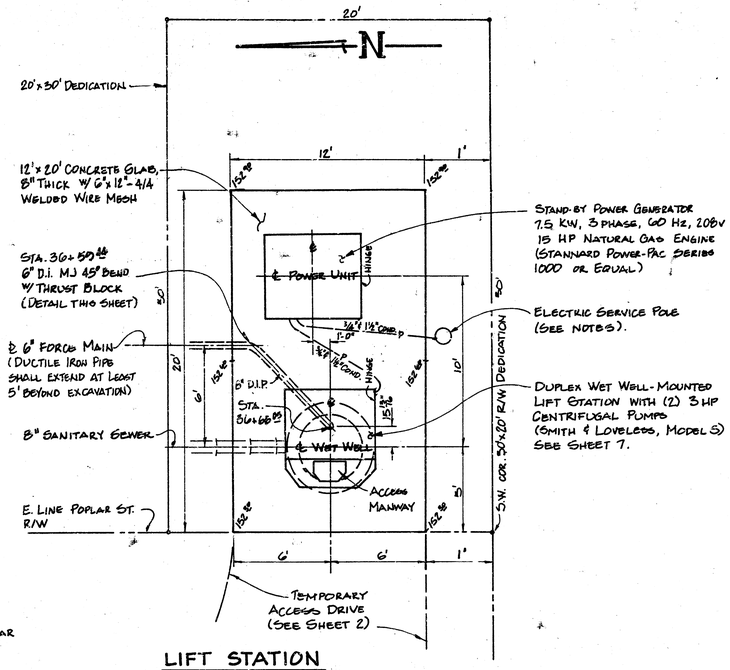


STEEL CASING DETAIL

No Scale

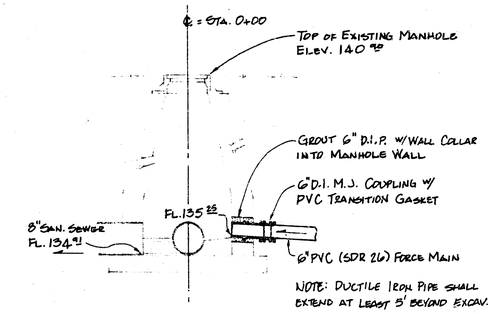


TOP PLAN



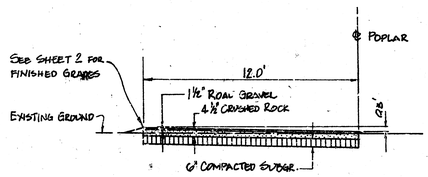
LIFT STATION SITE PLAN

1"=4'



FORCE MAIN DISCHARGE AT STA. 0+00

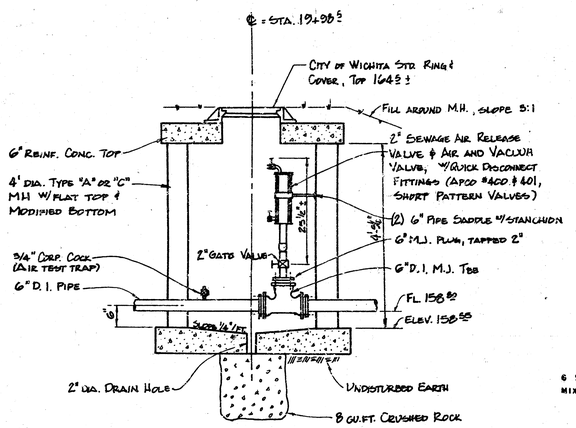
No Scale



TYPICAL SECTION ACCESS DRIVE

(LOOKING NORTH)

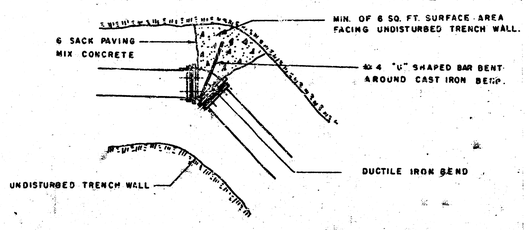
NOTE: Crushed Rock Shall Conform To The Requirements Of Type AB-3 Of Section 1104 Of The 1980 Edition Of K.D.O.T. Standard Specifications.



SECTIONAL ELEVATION

AIR RELEASE MANHOLE

No Scale



THRUST BLOCK DETAIL

NOTES:

1. THE LUMP SUM PRICE BID FOR FURNISHING AND INSTALLING LIFT STATION WITH STANDBY POWER AND MISCELLANEOUS APPURTENANCES COMPLETE IN PLACE SHALL INCLUDE ALL COSTS FOR FURNISHING AND INSTALLING THE LIFT STATION AND STANDBY POWER MODULE AS INDICATED ON THE SITE PLAN COMPLETE IN PLACE AND IN OPERATION. SUCH LUMP SUM BID 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, FINISHED GRADING AND ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.

2. CONTRACTOR SHALL INSTALL A 10" X 12' CREOSOTED WOOD POWER POLE IN A LOCATION APPROVED BY THE ENGINEER. POLE SHALL BE INSTALLED WITH 8' EXPOSED ABOVE GROUND. CONTRACTOR SHALL ALSO CONSTRUCT CONCRETE PAD FOR K.G. & E. TRANSFORMER IN A LOCATION ALSO APPROVED BY THE ENGINEER. TRANSFORMER PAD SHALL BE CONSTRUCTED TO CONFORM WITH REQUIREMENTS OF K.G. & E. THE CONTRACTOR SHALL CONTACT K.G. & E. (LARRY UNDERHILL, 261-6449) TO MAKE ARRANGEMENTS FOR ELECTRIC SERVICE.

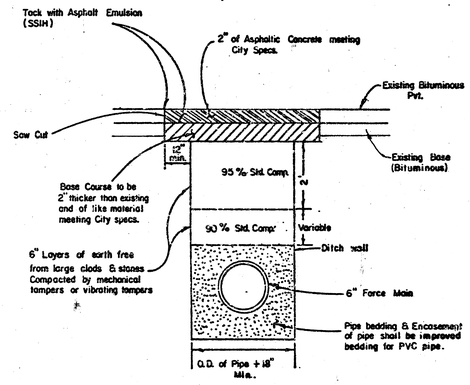
3. A 3" CONDUIT SHALL BE INSTALLED UNDERGROUND FROM THE TRANSFORMER TO THE METER. A 1½" CONDUIT SHALL BE INSTALLED UNDERGROUND FROM THE LIFT STATION MODULE TO THE STANDBY POWER MODULE AND FROM THE STANDBY POWER MODULE TO THE DISCONNECT SWITCH LOCATED ON THE POWER POLE. A 3/4" CONDUIT SHALL BE INSTALLED UNDERGROUND PARALLEL WITH THE POWER CONDUIT TO FACILITATE CONNECTION OF THE ALARM SYSTEM BY OTHERS. ALL ELECTRICAL WIRING SHALL CONFORM TO THE CITY OF WICHITA CODE.

4. A UL LISTED LIGHTNING ARRESTOR SHALL BE INSTALLED AFTER THE DISCONNECT SWITCH FOR VOLTAGE SURGE PROTECTION OF THE AUTOMATIC TRANSFER SWITCH AND ALL SECONDARY WIRING.

5. CONCRETE DRIVE APPROACH TO LIFT STATION TO BE INSTALLED AS PART OF POPLAR STREET PAVING PROJECT. CONTRACTOR SHALL CONSTRUCT TEMPORARY ACCESS DRIVE TO PROVIDE ACCESS TO LIFT STATION UNTIL PAVEMENT IS EXTENDED.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGEMENTS WITH GAS SERVICE COMPANY (CHARLENE MARTINEZ, 832-1243) FOR EXTENSION OF GAS SERVICE TO THE LIFT STATION SITE, AND FOR PAYMENT OF COSTS OF SUCH EXTENSION AND METER SETTING. LOCATION OF METER TO BE ACCEPTABLE TO GAS SERVICE COMPANY AND TO CITY OF WICHITA SEWER MAINTENANCE DEPARTMENT.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL BLOCK CORNERS OR IRONS. ANY SUCH CORNERS DESTROYED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED BY A LICENSED SURVEY OR PROFESSIONAL ENGINEER AT CONTRACTOR'S EXPENSE.



PAVEMENT REPLACEMENT DETAIL

No Scale

Standard Density Test, as described in the latest addition of ASTM D 698, shall be performed to verify the above requirements to the Satisfaction of the Dept. of Engineering or the Dept. of Operations and Maintenance. All testing cost shall be included in the unit price bid for the pipe in place.

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SURVEYING & ENGINEERING
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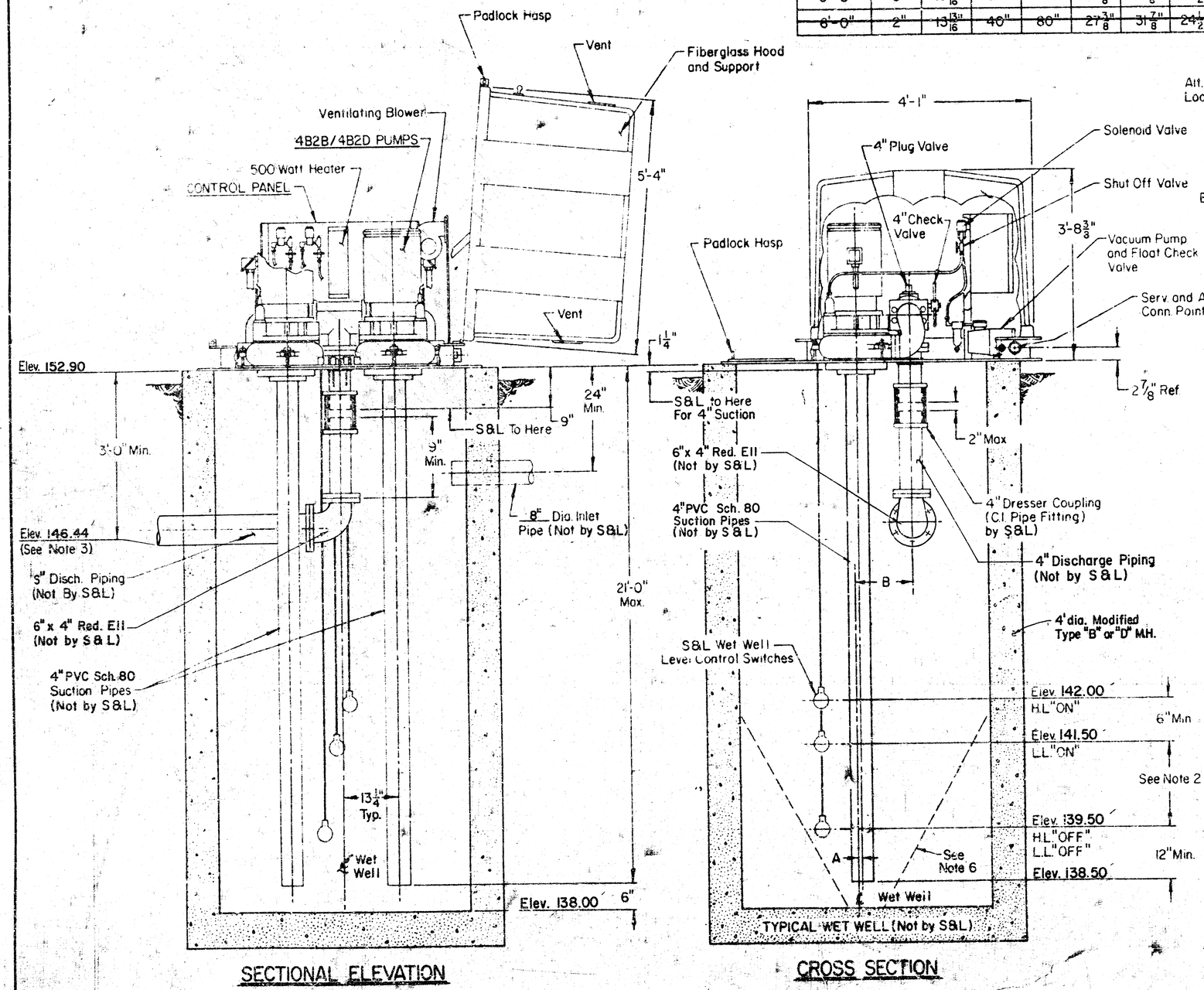
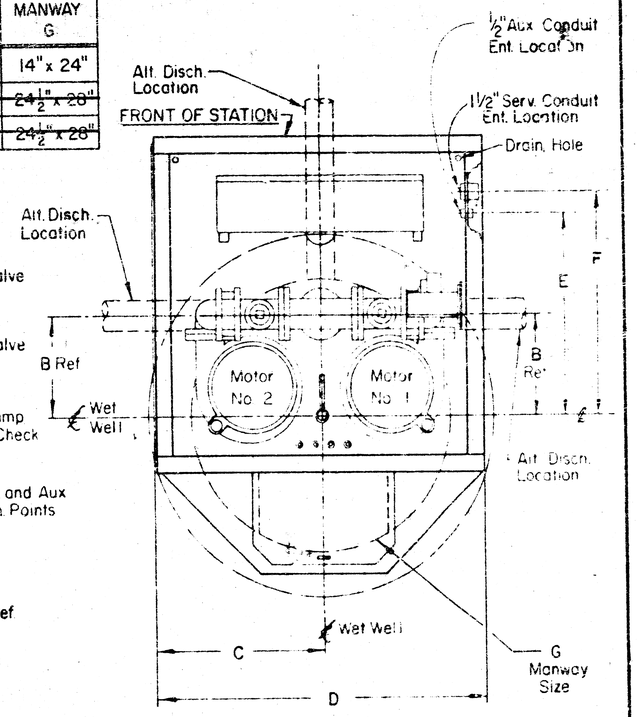
WET WELL DIAMETER	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E	DIM. F	MANWAY G
4'-0"	4"	$15\frac{13}{16}$"	33"	66"	$27\frac{7}{8}$"	$32\frac{3}{8}$"	14" x 24"
~~5'-0"~~	~~8"~~	~~$19\frac{13}{16}$"~~	~~34"~~	~~68"~~	~~$33\frac{3}{8}$"~~	~~$37\frac{7}{8}$"~~	~~$24\frac{1}{2}$" x 28"~~
~~6'-0"~~	~~2"~~	~~$13\frac{13}{16}$"~~	~~40"~~	~~80"~~	~~$27\frac{3}{8}$"~~	~~$31\frac{7}{8}$"~~	~~$24\frac{1}{2}$" x 28"~~



SECTIONAL ELEVATION

CROSS SECTION



PLAN VIEW
MACH. CHAMBER
(Shown Less Cover)

NOTES:

1. Maximum Capacity - 400 G.P.M.
2. Volume In Gallons Between L.L."ON" and L.L."OFF" Should Equal Pumping Rate in G.P.M.
3. If End of Discharge Line is Below Elevation of Discharge Line at Point of Leaving Wet Well, Consult Factory.
4. If Discharge Line is Less than 200 Feet in Length a Check Valve May be Required - Consult Factory.
5. Pump Motors - 20 H.P. Maximum.
6. Provide 60° Slope in Wet Well - As Required.

Lat. 53, S.S. 23
Proj. no. 468-76-245-81330-000-000-001

4B2B/4B2D PUMPS 87D196

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DRAWN BY D. Fisher	DATE 2-79	ALL DIMENSIONS TOLERANCES	Smith & Loveless, Inc.
CHECKED BY M.E.W.	DATE 2-79	FRACTIONS	FOR WET WELL MOUNTED PUMP LIFT STA. - MODEL "S" 4" PIPING - 4', 5' & 6' DIA. WELL
APPROVED BY C.V.	DATE 3-79	DECIMALS	
SCALE none		ANGLES	SIZE Ea.
ORIGINAL ISSUE N78-16		LOGS 9	DWG. NO. 87D196

C N82-91 11/82
B N82-39 7/82
A N80-16 6/80