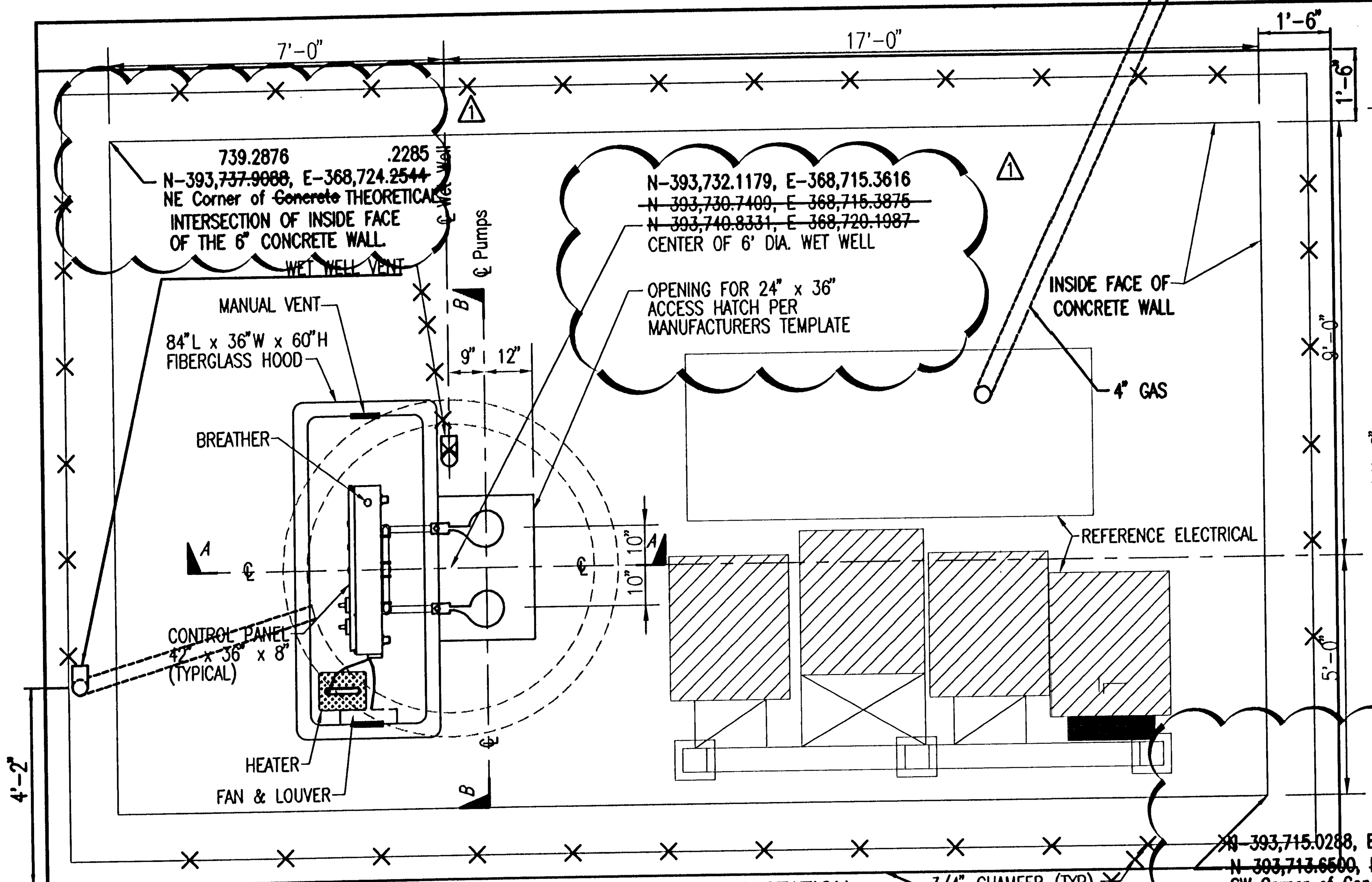
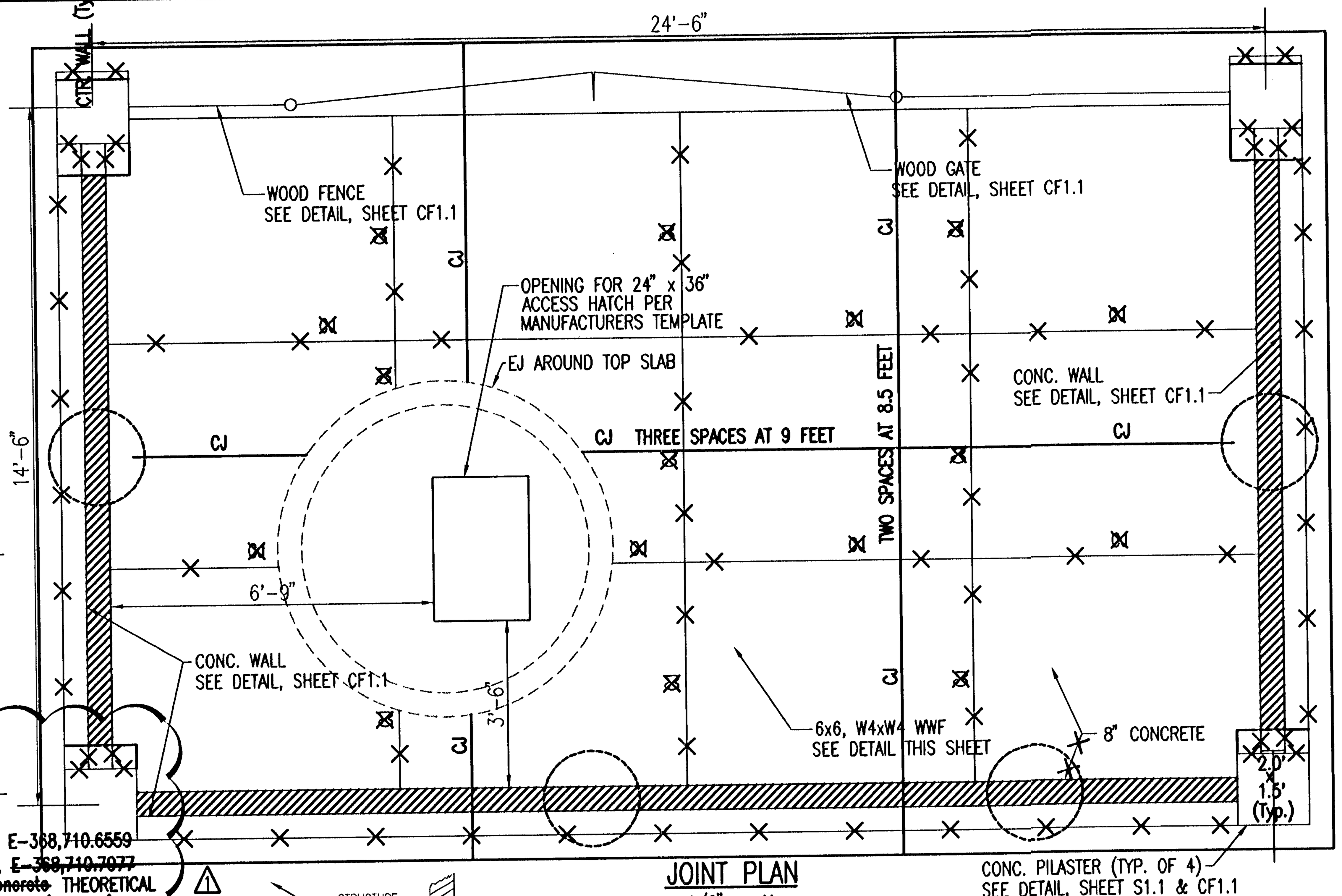


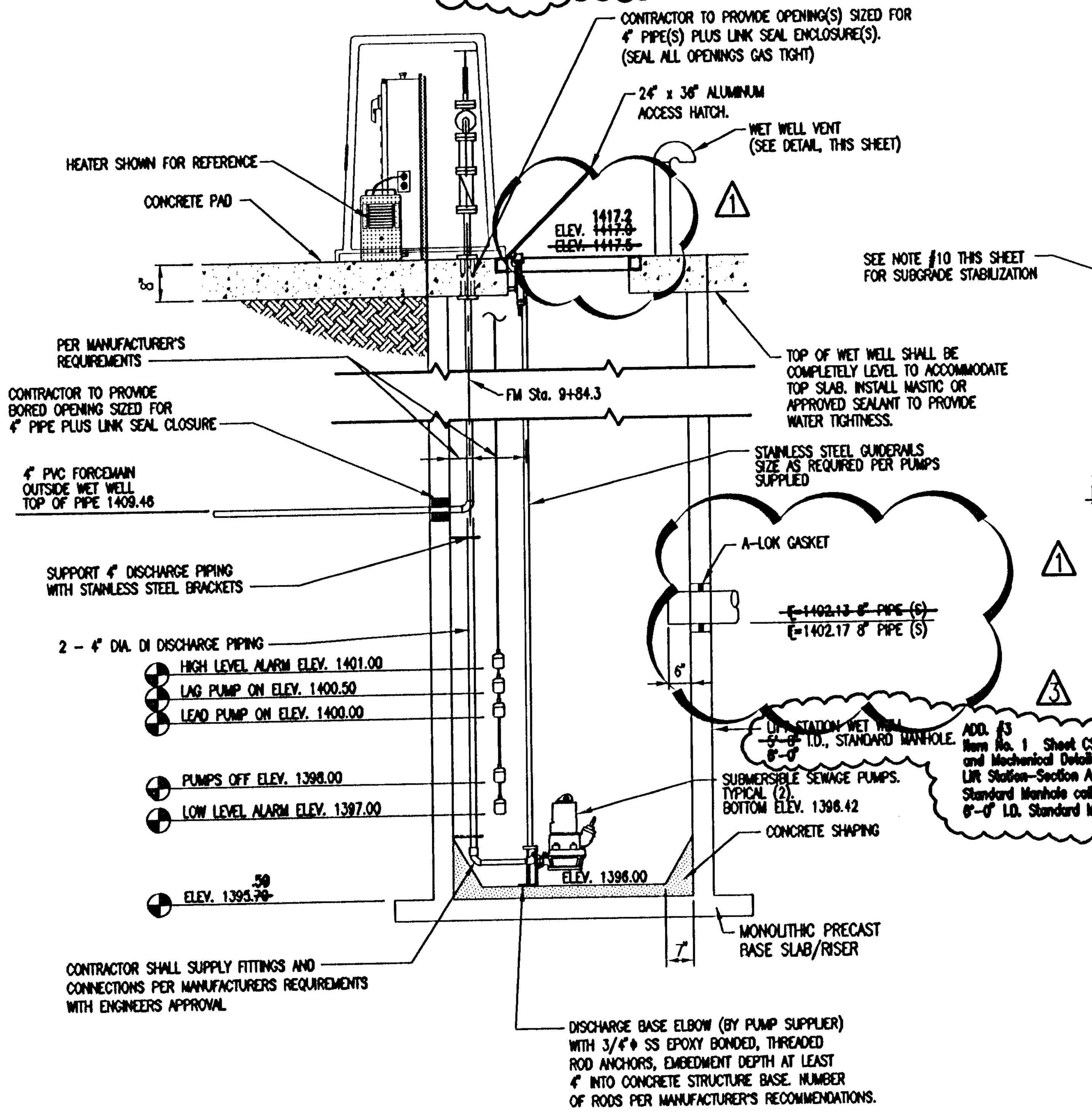
TOP PLAN – LIFT STATION
1/2" = 1'



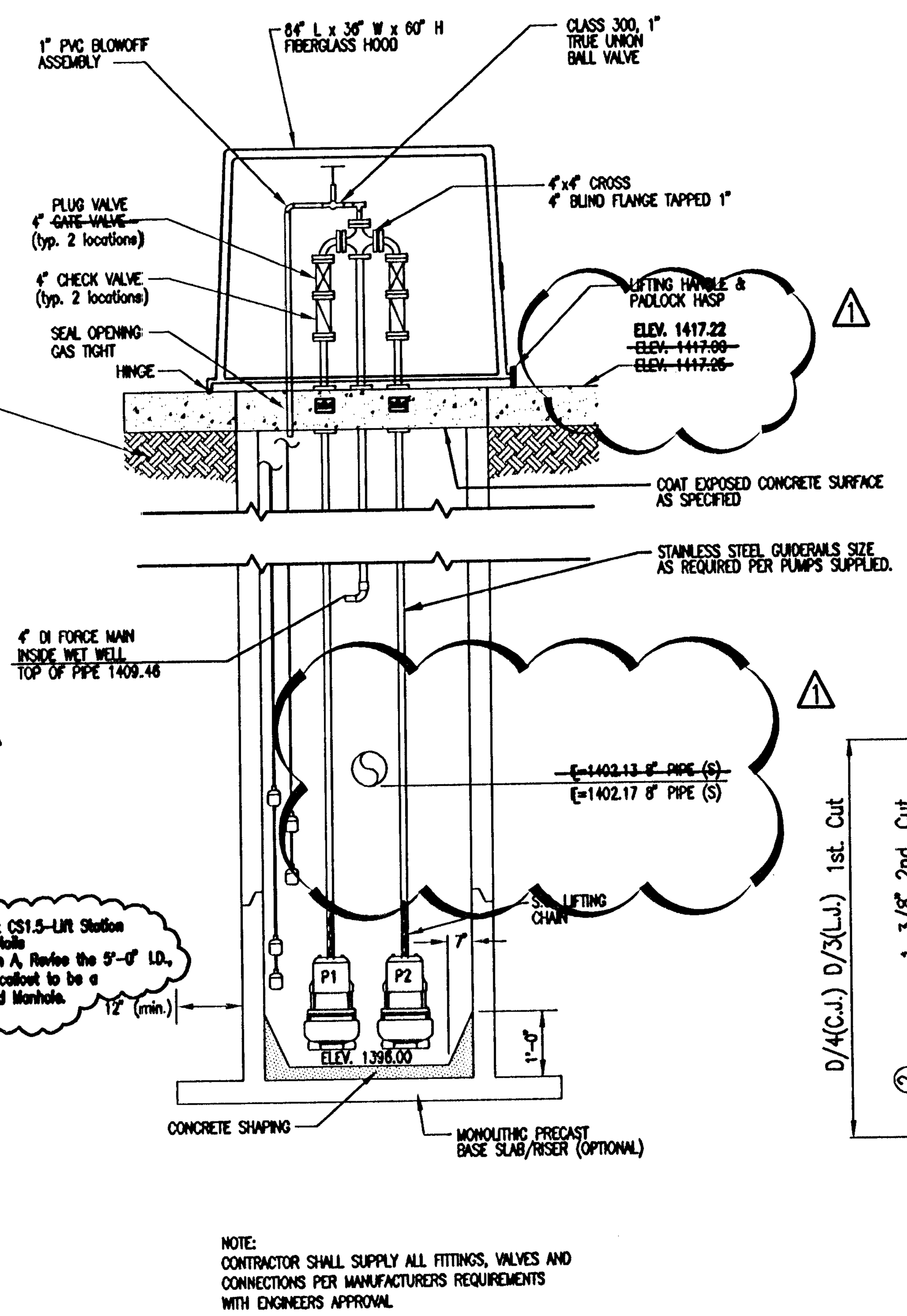
JOINT PLAN
1/2" = 1'

PUMP SCHEDULE ADD. #3

MARK	TYPE	STATUS	GPM	FT. HEAD	EFF. %	HP	RPM	ELECT.
P-1	SUBMERSIBLE	PROPOSED	~~150~~	~~140~~ ~~42~~ 37	~~70~~ 45	5	1800	230/60/1
P-2	SUBMERSIBLE	PROPOSED	~~150~~	~~140~~ ~~42~~ 37	~~70~~ 45	5	1800	230/60/1

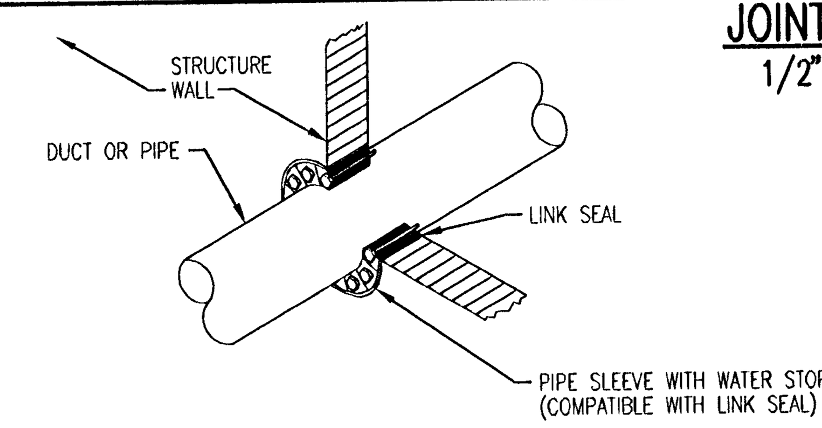


SECTION A
No Scale

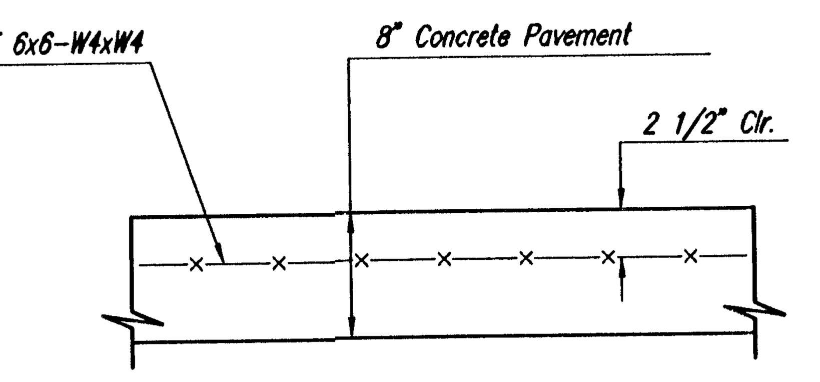


NOTE:
CONTRACTOR SHALL SUPPLY ALL FITTINGS, VALVES AND CONNECTIONS PER MANUFACTURERS REQUIREMENTS WITH ENGINEERS APPROVAL.

SECTION B
No Scale



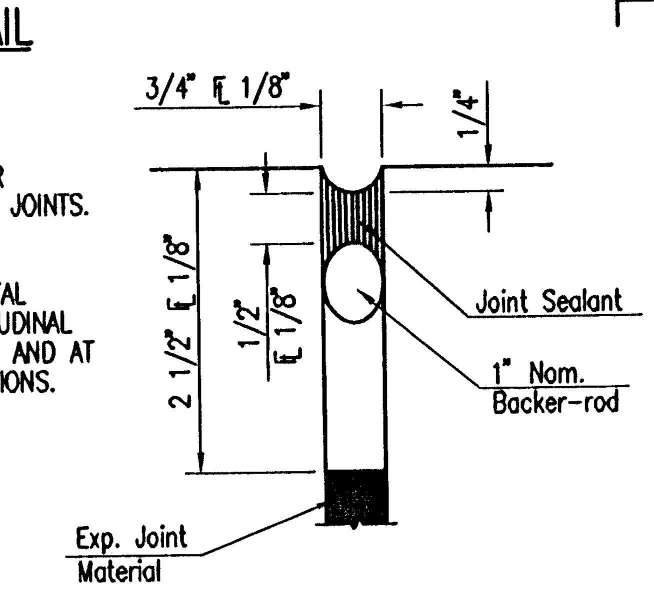
LINK SEAL DETAIL
No Scale



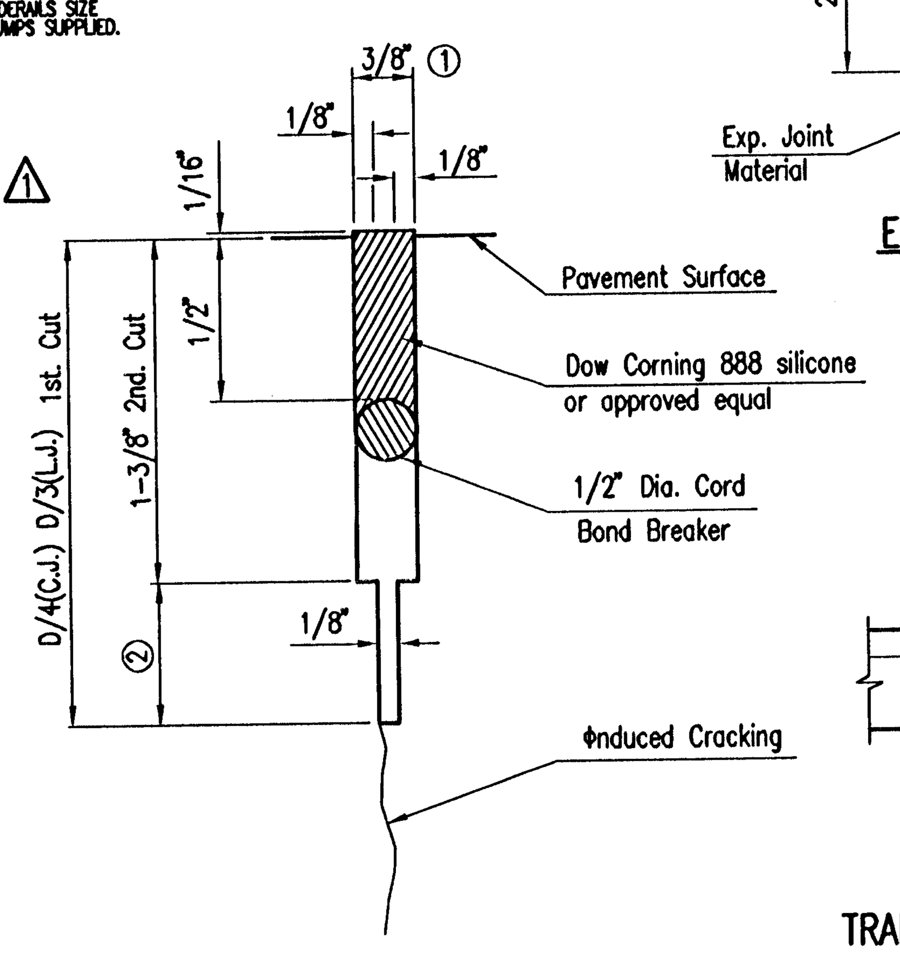
CONCRETE PAVEMENT
TYPICAL SECTION

① TO BE ACCOMPLISHED IN 2 CUTS FOR LONGITUDINAL JOINTS & CONTRACTION JOINTS. INITIAL CUT TO BE 1/8" WIDE.

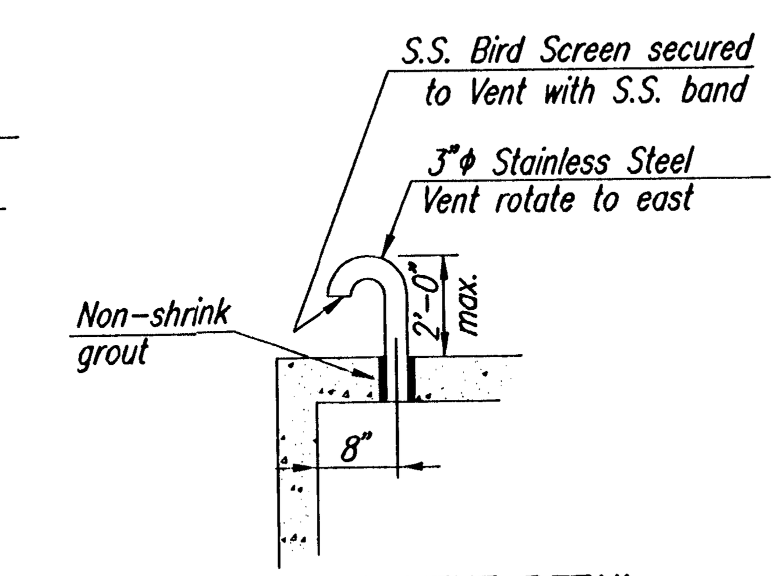
② ELIMINATE BOTTOM OF CUT WHEN METAL KEYWAY IS USED AS PART OF LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT AND AT DOWELED CONSTRUCTION JOINT LOCATIONS.



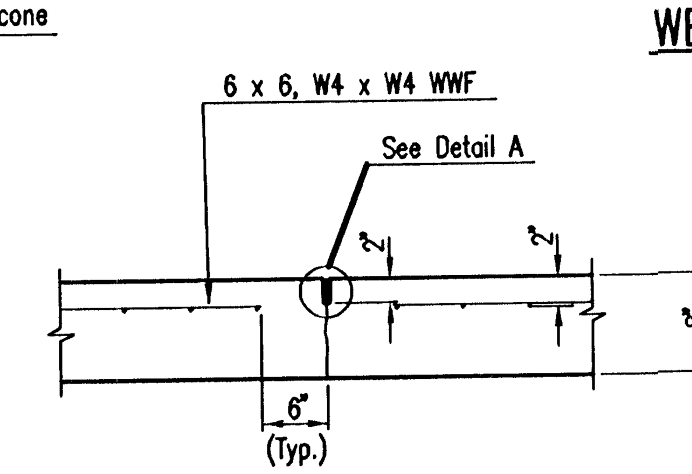
EXPANSION JOINT



CONTRACTION JOINT



WET WELL VENT DETAIL
No Scale



TRANSVERSE CONTRACTION JOINT DETAIL
REINFORCED PAVEMENT
(C.J.)

NOTES:

1. THE PRICE BID FOR FURNISHING AND INSTALLING THE LIFT STATION INCLUDING THE WET WELL, VALVE VAULT, AND MISCELLANEOUS APPURTENANCES COMPLETE IN PLACE SHALL INCLUDE ALL COSTS FOR FURNISHING AND INSTALLING THE LIFT STATION AS SHOWN IN THE PLANS COMPLETE, IN PLACE AND IN OPERATION. THIS PRICE SHALL INCLUDE THE COST OF CONSTRUCTING AND/OR INSTALLING COMPACTED SUBGRADE, CONCRETE PAVEMENT, ELECTRICAL CONDUIT, ELECTRICAL WIRING, DISCONNECT SWITCH, PUMP CONTROLS, ELECTRICAL POWER SUPPLY, PHONE AND GAS SUPPLY, FINISHED GRADING, LANDSCAPING, FENCING AND ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK AND PLACE THE LIFT STATION INTO SATISFACTORY OPERATION. THE PRICE BID SHALL INCLUDE ALL SANITARY SEWER PIPE AND FORCE MAIN EXTENDED OUTSIDE THE SLAB AS SHOWN IN THE SITE PLAN AND DETAILS (THIS SHEET). WET WELL CONSTRUCTION SHALL MEET THE REQUIREMENTS AS SHOWN ON THE PRECAST MANHOLE DETAILS, SHEET NO. CS1.6, UNLESS OTHERWISE SHOWN.
2. UNLESS OTHERWISE NOTED, ALL FORCE MAIN PIPING SHALL BE STAINLESS STEEL OR DUCTILE IRON. ALL INTERIOR PIPING SHALL BE 4" FLANGED JOINT.
3. THE CONTRACTOR SHALL PERFORM AN EXFILTRATION TEST ON THE COMPLETED WET WELL. THE WET WELL SHALL BE TESTED INDIVIDUALLY BY SECURELY PLUGGING ALL INLET AND OUTLET PIPES. THE WET WELL SHALL BE FILLED TO ITS FULL DEPTH AND THEN OBSERVED FOR AT LEAST 6 HOURS. EXFILTRATION LOSS FROM THE ~~5~~ 6-FOOT DIAMETER WET WELL SHALL NOT EXCEED THE RATE OF 1.20 GALLONS PER FOOT OF WET WELL DEPTH PER DAY. IF EXFILTRATION EXCEEDS THE MAXIMUM LIMITS, THE CONTRACTOR SHALL REPAIR LEAKS AND DEFECTS AND THEN RETEST. △3
4. ALL HARDWARE WITHIN THE WET WELL INCLUDING GUIDE BAR, HOIST CHAIN, HOIST CHAIN CATCH, ETC. SHALL BE STAINLESS STEEL.
5. WET WELL DESIGN SHALL BE SUBJECT TO THE SAME DESIGN REQUIREMENTS AS PRECAST MANHOLES.
6. THE CONTRACTOR SHALL COORDINATE WITH WESTAR ENERGY, KANSAS GAS SERVICE, AND SBC TO EXTEND ELECTRICAL SERVICE, GAS SERVICE, AND TELEPHONE SERVICE TO THE LIFT STATION SITE. THE CONTRACTOR SHALL VERIFY THE ELECTRICAL, GAS, AND TELEPHONE SERVICE REQUIREMENTS THAT WILL BE PROVIDED BY WESTAR ENERGY, KANSAS GAS SERVICE, AND SBC. THE CONTRACTOR SHALL COORDINATE EXTENSION OF UTILITY SERVICES TO THE PROPOSED LIFT STATION WITH THE DEVELOPER FOR THE PROJECT AND ALSO WITH THE RESPECTIVE UTILITY COMPANIES. WESTAR ENERGY, KANSAS GAS SERVICE, AND SBC WILL BE EXTENDED TO THE SITE AS PART OF THE DEVELOPMENT. NO SEPARATE PAYMENT WILL BE MADE TO THE CONTRACTOR FOR EXTENSION OF UTILITY SERVICE LINES.

THE CONTACT PEOPLE ARE LISTED BELOW:

SBC
ATTN: JIM TOBEN
154 N. BROADWAY, RM. 210
WICHITA, KS 67202
PH (316) 268-2759

KANSAS GAS SERVICE
ATTN: JIM COE
1021 E. 26th ST. N.
WICHITA, KS 67219
PH (316) 832-3126

WESTAR ENERGY
ATTN: SHANE PRICE
1900 E. CENTRAL
WICHITA, KS 67214
PH: (316) 261-6315

7. CONTRACTOR SHALL INSTALL AND CONNECT TELEPHONE DIALER AS REQUIRED BY SPECIFICATIONS.
8. CONTRACTOR SHALL LOCATE FLOATS SO FUTURE FLOW INTO THE WET WELL WILL NOT INTERFERE WITH FLOAT OPERATION.
9. THE CONTRACTOR SHALL SEED ALL AREAS DISTURBED BY CONSTRUCTION AS PER THE SPECIFICATIONS OR AS SHOWN ON PLANS.
10. BACKFILL SHALL BE LOW VOLUME CHANGE MATERIAL COMPACTED TO 95% ASTM D-1557 AROUND WET WELL, VALVE VAULT, AND UNDER PROPOSED CONCRETE SLAB. THE LOW VOLUME CHANGE MATERIAL SHALL HAVE A LIQUID LIMIT LESS THAN 30 AND A PI BETWEEN 5 AND 15.
11. IN ADDITION TO COORDINATING INSTALLATION OF WESTAR ENERGY, KANSAS GAS SERVICE, AND SBC SERVICES, CONTRACTOR SHALL PROVIDE START UP, TESTING, AND ADJUSTMENT OF PUMP STATION EQUIPMENT, CONTROLS, AND RELATED COMPONENTS. THESE START UP SERVICES SHALL BE PROVIDED AFTER INSTALLATION OF RELATED UTILITY SERVICES BY WESTAR ENERGY, KGS, SBC AND MAY REQUIRE CONTRACTOR TO REVISIT JOB SITE AFTER OTHER PROJECT WORK IS COMPLETED. ALL COSTS FOR THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE LUMP SUM BID ITEM "LIFT STATION."
12. ALL INTERIOR SURFACES OF THE MANHOLE SHALL BE COATED AS SPECIFIED PER SECTION 09900 OF THE PROJECT SPECIFICATIONS.
13. ALL ANCHOR BOLTS, FLANGE JOINT BOLTS AND NUTS, FASTENERS AND APPURTENANCES SHALL BE STAINLESS STEEL.
14. DO NOT SUPPORT DISCHARGE PIPING ON GUIDE RAIL OR BASE ELBOWS. SECURE AISI TYPE 316SS SUPPORTS TO MANHOLE WALL.
15. CONTRACTOR SHALL COORDINATE WITH LIFT STATION MANUFACTURER TO VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURE AND INSTALLATION OF EQUIPMENT.

△3 ADDENDUM #3

No.	Revision	By	Date
1	CHANGE ORDER #1- RELOCATE LIFT STATION	ALA	10/12/06

SHEET NO.	TOTAL SHEETS
CS1.5	19

RECORD DRAWING
26 JAN 07

THE WICHITA AIRPORT AUTHORITY
COLONEL JAMES JABARA AIRPORT

LIFT STATION AND MECHANICAL DETAILS

SANITARY SEWER AND WATER DISTRIBUTION SYSTEM
SOUTHWEST AREA SITE DEVELOPMENT IMPROVEMENTS

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Date SEPTEMBER 2005 Job No. 05471-019

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