CONSTRUCTION DRAWINGS

CAVE SPRINGS WASTEWATER TR

GENERAL NOTES:

A. TOPOGRAPHIC BOUNDARY SURVEY, INCLUDING PROPERTY LINES, LEGAL DESCRIPTION, EXISTING UTILITIES, SITE TOPOGRAPHY WITH SPOT ELEVATIONS, OUTSTANDING PHYSICAL FEATURES AND EXISTING STRUCTURE LOCATIONS WAS PROVIDED BY THE FOLLOWING COMPANY, AS A CONTRACTOR TO THE SELLER/OWNER:

> GEOMATIC CONSULTANTS, INC. 134 N. MAIN STRFFT CAVE SPRINGS, AR 72718 (479)248-1466

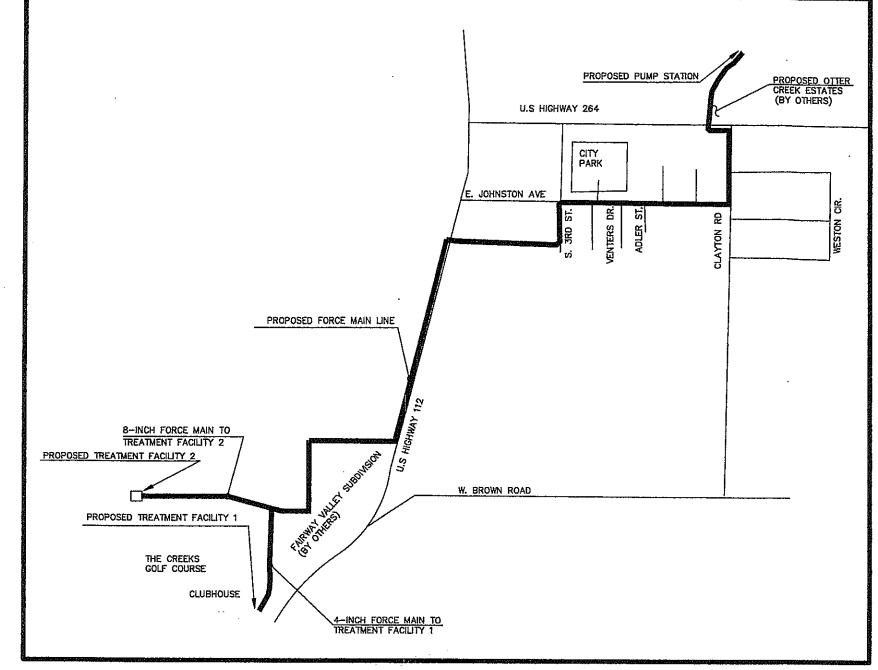
CEI ENGINEERING AND ITS ASSOCIATES WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF THE SURVEY OR FOR DESIGN ERRORS OR OMISSIONS RESULTING FROM SURVEY INACCURACIES.

- ALL PHASES OF SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE OWNER / DEVELOPER SITE WORK SPECIFICATIONS.
- C. CONTRACTOR SHALL BE RESPONSIBLE FOR RAZING AND REMOVAL OF THE EXISTING STRUCTURES. RELATED UTILITIES. PAVING, UNDERGROUND STORAGE TANKS AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED. SEE SITE WORK SPECIFICATIONS.
- CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- THE GENERAL CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- F. WARRANTY/DISCLAIMER: THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER THE ENGINEER NOR ITS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.
- SAFETY NOTICE TO CONTRACTOR: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION
- H. ALL CONSTRUCTION IN STATE HIGHWAY DEPARTMENT RIGHT-OF-WAY SHALL BE COORDINATED WITH THE HIGHWAY DEPARTMENT RESIDENT MAINTENANCE
- ANY DEVELOPMENT, EXCAVATION, CONSTRUCTION, OR FILLING IN A U.S. CORPS OF ENGINEERS DESIGNATED WETLAND IS SUBJECT TO LOCAL, STATE AND FEDERAL APPROVALS. THE CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS AND/OR RESTRICTIONS AND ANY VIOLATION WILL BE SUBJECT TO FEDERAL PENALTY. THE CONTRACTOR SHALL HOLD THE OWNER/DEVELOPER, THE ENGINEER AND THE LOCAL GOVERNING AGENCIES HARMLESS AGAINST SUCH VIOLATION.
- **RESIDENT ENGINEERING SERVICES:** WHEN REQUESTED BY THE OWNER, RESIDENT ENGINEERING SERVICES SHALL BE PROVIDED BY THE ENGINEERS (ON A TIME AND FREQUENCY BASIS) ACCEPTABLE TO THE CITY ENGINEER FOR IMPROVEMENTS TO PUBLIC WATER MAINS, PUBLIC SEWER, AND CITY STREETS. AT THE COMPLETION OF CONSTRUCTION, THE ENGINEER SHALL CERTIFY THE CONSTRUCTION TO BE IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS. THIS WORK WILL BE AT THE OWNER/DEVELOPER'S DIRECT EXPENSE AND SHALL BE COORDINATED WITH CEI ENGINEERING ASSOCIATES, INC. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE RESIDENT ENGINEER OF ANY PRECONSTRUCTION / CONSTRUCTION CONFERENCES AND ANY PUBLIC CONSTRUCTION 24 HOURS PRIOR TO SAID ACTION.

FLOOD CERTIFICATION:

A PORTION OF THIS SITE AS SHOWN IS IN THE "ZONE A" DESIGNATED FLOOD AREA (100-YEAR FREQUENCY FLOOD ZONE) AS DESIGNATED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER 05007C 0145 E, FOR BENTON COUNTY, EFFECTIVE DATE SEPTEMBER 18, 1991

CAVE SPRINGS, ARKANSAS



NOT TO SCALE

APPROVED	DATE
CITY OF CAVE SPRINGS WASTEWATER DISTRICT	
CITY OF CAVE SPRINGS	
CARROLL ELECTRIC COOPERATIVE CORP.	`.
ARKANSAS WESTERN GAS	
COX COMMUNICATIONS	
SOUTHWESTERN BELL	
ARKANSAS DEPARTMENT OF HEALTH	
ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT	
ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY	
ARKANSAS GAME AND FISH COMMISION	

PLANNERS

ENGINEERING ASSOCIATES, INC

3317 S.W. | Street Bentonville, AR 72712

ENGINEERS

(479) 273-9472 FAX (479) 273-0844

SURVEYORS

PLAN INDEX:

J Law -	/				
1.	COVER SHEET	18.	DRIP FIELD OVERALL LAYOUT	34.	SITE PLAN TREATMENT PLANT 2
2.	OVERALL LAYOUT 1	19.	DRIP FIELD LAYOUT 1	35.	
3.	OVERALL LAYOUT 2	20.	DRIP FIELD LAYOUT 2	JJ.	GRADING PLAN TREATMENT PLANT 2
4.	GRADING PLAN: PUMP STATION	21.	DRIP FIELD LAYOUT 3	36.	DETAIL SHEET 1
5. 6.	CAVE SPRINGS INTERCEPTOR #1 PLAN AND PROFILE #1 CAVE SPRINGS INTERCEPTOR #1	22.	DRIP FIELD LAYOUT 4	37.	DETAIL SHEET 2
7.	PLAN AND PROFILE #2 CAVE SPRINGS INTERCEPTOR #1	23.	DRIP FIELD LAYOUT 5	38.	DETAIL SHEET 3
8.	PLAN AND PROFILE #3 CAVE SPRINGS INTERCEPTOR #1 PLAN AND PROFILE #4	24.	DRIP FIELD LAYOUT 6	39.	DETAIL SHEET 4
9.	CAVE SPRINGS INTERCEPTOR #1 PLAN AND PROFILE #5	25.	DRIP FIELD LAYOUT 7	40.	DETAIL SHEET 5
10.	CAVE SPRINGS INTERCEPTOR #1 PLAN AND PROFILE #6	26.	DRIP FIELD LAYOUT 8	41.	DETAIL SHEET 6
11.	CAVE SPRINGS INTERCEPTOR #1 PLAN AND PROFILE #7	27.	DRIP FIELD LAYOUT 9	42.	DETAIL SHEET 7
12.	CAVE SPRINGS INTERCEPTOR #1 PLAN AND PROFILE #8	28.	DRIP FIELD LAYOUT 10	42.	•
13.	CAVE SPRINGS INTERCEPTOR #1 PLAN AND PROFILE #9	29.	DRIP FIELD LAYOUT 11	43.	PUMP STATION DETAIL
14.	CAVE SPRINGS INTERCEPTOR #1 PLAN AND PROFILE #10	30.	DRIP FIELD LAYOUT 12		
15.	CAVE SPRINGS INTERCEPTOR #1 PLAN AND PROFILE #11	31.	DRIP FIELD LAYOUT 13		,
16.	TREATMENT PLANT #2 INTERCEPTOR #1 PLAN AND PROFILE #1	32.	DRIP FIELD LAYOUT 14		,

ASSOCIATED PLANS:

TREATMENT PLANT #2 INTERCEPTOR #1 PLAN AND PROFILE #2

1. PLANS FOR WATER AND SEWER IMPROVEMENTS TO SERVE FAIRWAY VALLEY SUBDIVISION (ESI, INC.)

RESOURCE LIST:

CITY OF CAVE SPRINGS WATER DEPT WATER/STREET SUPERINTENDENT 479-248-1040 EXT. 17 MR. RICK SAYRE

CARROLL ELECTRICAL COOPERATIVE CORP. U.S. HWY. 71B BENTONVILLE, AR 72712 (479) 273-2421 MR. MIKE PHILLIPS

AMERICAN ELECTRIC POWER CORP. 101 W. TOWNSHIP FAYETTEVILLE, AR 72701 (479) 973-2333 MR. RONALD R. BERTRAM

ARKANSAS DEPT. OF HEALTH AND HUMAN SERVICES 4815 W. MARKHAM ST. LITTLE ROCK, AR 72205-3867 (501) 661-2623 MR. ROY DAVIS, P.E

ARKANSAS DEPT. OF ENVIRONMENTAL QUALITY #1 STATE POLICE PLAZA DRIVE LITTLE ROCK, AR 72209 (501) 682-0045 MS. CARA HILL, P.E

ARKANSAS HWY. & TRANS. DEPT. P.O. BOX 610 HIGHWAY 65 SOUTH HARRISON AR 72601 (870) 743–2100

DRIP FIELD LAYOUT 15

ARKANSAS WESTERN GAS COMPANY P.O. BOX 13288 FAYETTEVILLE, AR 72703-1002 (479) 435-1753 MR. DERRY BIRDSONG

COX COMMUNICATIONS 4901 S. 48th STREET SPRINGDALE, AR 72762 (479) 717-3738 MR. RYAN BUTLER

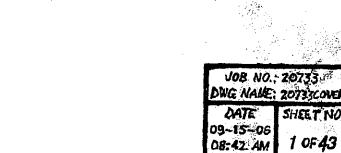
MR. BOBBY KEETON

ARKANSAS * * * PROFESSIONAL ENGINEER * * * No. 12538 11-7-06

ENGINEER CEI ENGINEERING ASSOCIATES, INC. 3317 SW "I" ST. BENTONVILLE, AR 72712

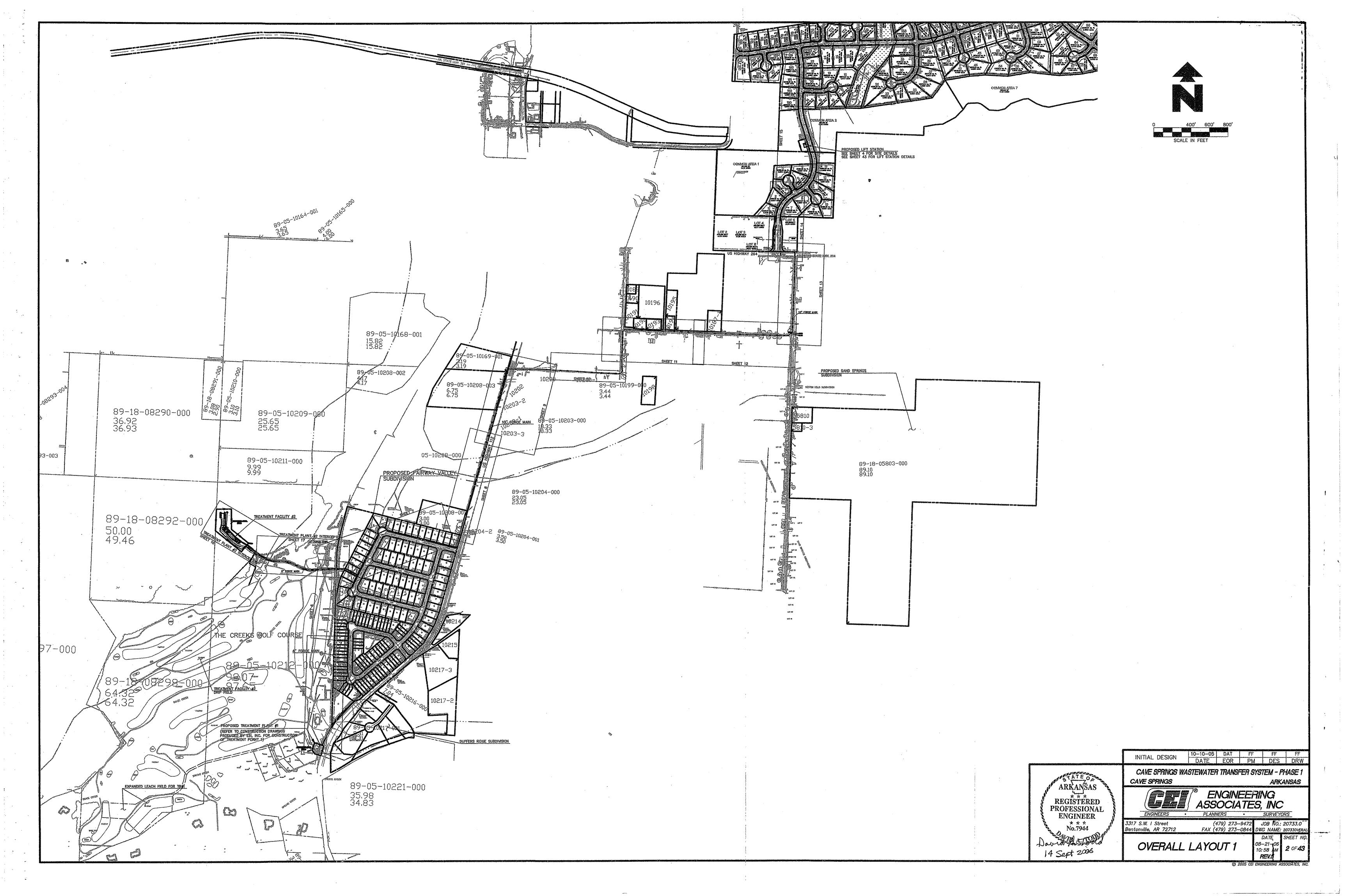
(479) 273-9472 (479) 273-0844 (FAX) FERDINAND FOURIE, P.E.

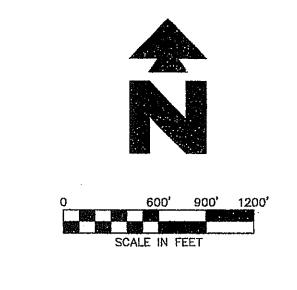
<u>DEVELOPER</u> CAVE SPRINGS MUNICIPAL PROPERTY OWNERS IMPROVEMENT DISTRICT #1/ THE CREEKS SPECIAL SEWER DISTRICT (479)601-5687 MR. BRETT HASH

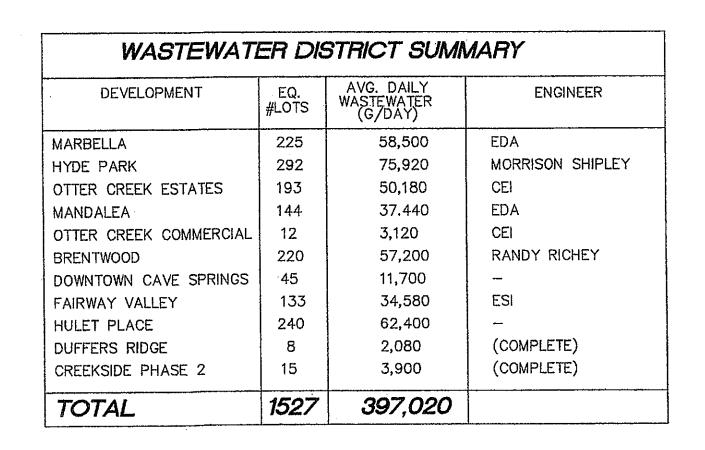


REV-6

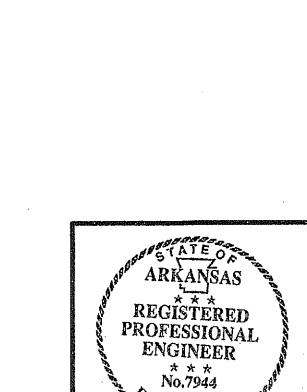
"Arkansas * California * Florida * Georgia * Minnesota * Pennsylvania * Tennessee * Texas







COMPONENT	NO. LOTS	AVERAGE DAILY FLOW (G/DAY)
TREATMENT PLANT NO. 1	350	91,000
FORCE MAIN LINE	2600	676,000
EXPANDED DRIPFIELD	250	66,000
TREATMENT PLANT #2	1231	320,000
TREATMENT PLANT #2 FIELD	1231	320,000
TOTAL SYSTEM CAPACITY	1584	412,000



	INITIAL DESIGN	10-10-05	DAT	FF	FF	FF
		DATE	EOR	РМ	DES	DR
	CAVE SPRINGS WAS	TEWATER	TRANSF	en syst	EM - Ph	IASE
	CAVE SPRINGS				ARKAN	ISAS
ARRI	<i>ef</i>	,	VGIN	ERI	VG	`

ASSOCIATES, INC
ENGINEERS PLANNERS SURVEYORS 3317 S.W. I Street Bentonville, AR 72712 (479) 273-9472 JOB NO.: 20733 FAX (479) 273-0844 DWG NAME: 207330VEF

DATE SHEET NO. 08-21-06 11:01 AM **3** OF **43 REV 5** OVERALL LAYOUT 2

89-05-10211-000 9.99 9.99 APPROXIMATE LOCATION HULET PROPERTY 240 LOTS (BRIAN SCOTT) 89-18-08292-000
PROPOSED TREATMENT PLAN 14 Sept 2006

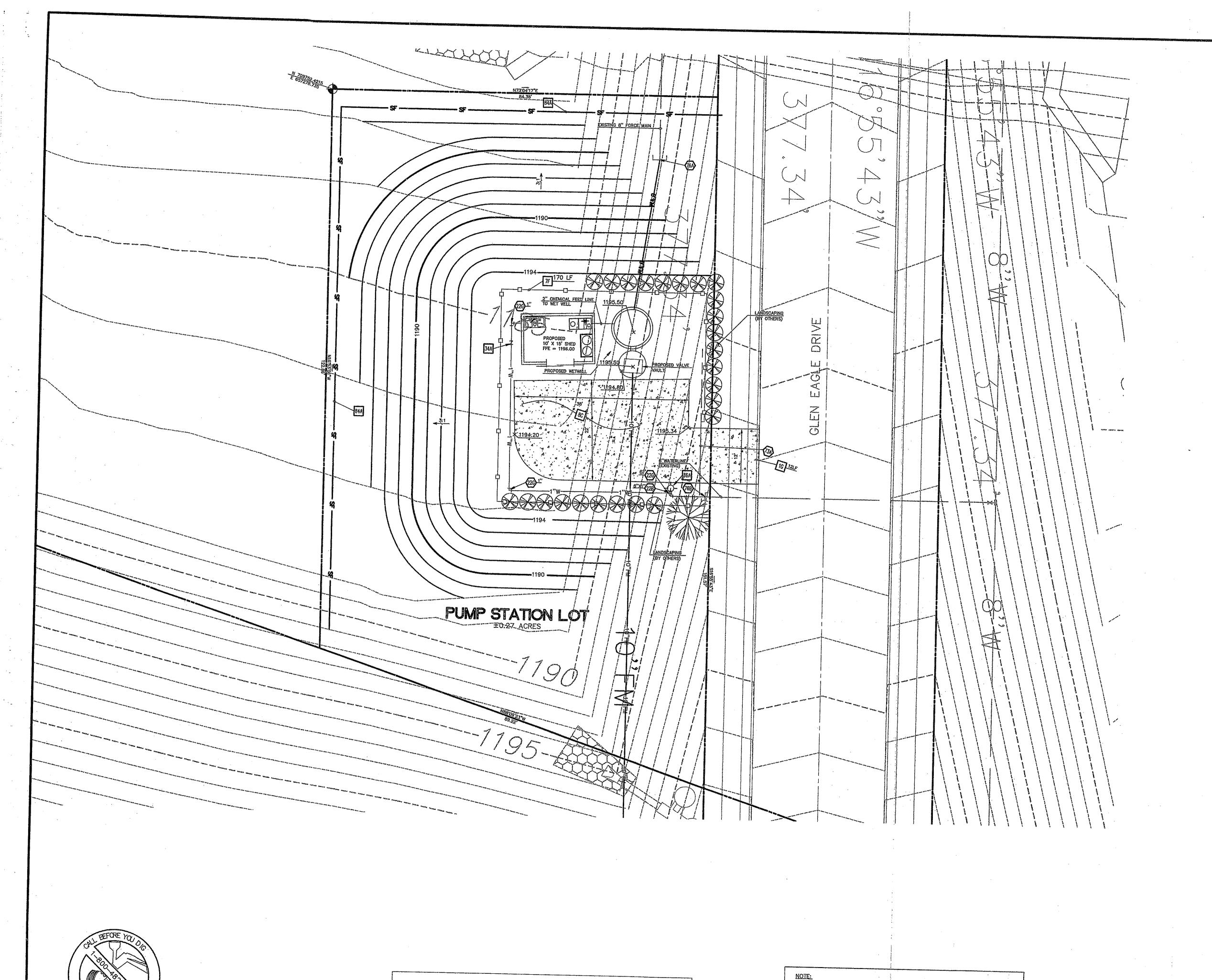
SAND SPRINGS

89-05-10168-001 15.82 15.82

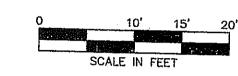
PROPOSED 10"

89-05-10209-096 25.65 25.65

OTTER CREEK ESTATES







- EAST OR ELECTRIC NORTH OVERHEAD
- SOUTH OR SEWER
- TELEPHONE UNDERGROUND HEST OR WATER
- RIGHT OF WAY LINE
- STORM DRAIN
- OHE OVERHEAD ELECTRIC
- --- OHE & T--- OVERHEAD ELECTRIC AND TELEPHONE
- ---- OHT ---- OVERHEAD TELEPHONE
- --- OHTY --- OVERHEAD TV
- X"S SEWER --- UGE --- UNDERGROUND ELECTRIC
- ---- UGE&T---- UNDERGROUND ELECTRIC AND TELEPHONE
- ---- UGT --- UNDERGROUND TELEPHONE
- --- UGTV --- UNDERGROUND TV

.5-10-11 50.5 TREE INFO .5 = DIAMETER OF TRUNK IN FEET 10 = HEIGHT OF TREE IN FEET 11 = CANOPY DIAMETER IN FEET 50.5 = ELEVATION AT BASE OF TREE

PROPOSED

- RIGHT OF WAY LINE
- ----- GRADE BREAK
- XXX CONTOUR ELEVATIONS ==== STORM DRAIN
- LIMITS OF PAVING
- XXXXX SPOT ELEVATIONS:
 TC = TOP OF CURB
 G = GUTTER

GENERAL GRADING NOTES

A. PRIOR TO INSTALLATION OF WATERLINE OR SANITARY SEWER, THE CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL CROSSINGS AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT THE ENGINEER IS NOT NOTIFIED OF DESIGN CONFLICTS.

- B. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND 4" OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDED. FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- C. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.

GRADING DETAILS

- 1G MOUNTABLE CURB
- REGULAR DUTY CONCRETE PAVING
- 34A REDUCED PRESSURE ZONE ASSEMBLY
- 36A FIRE HYDRANT ASSEMBLY SEE DETAIL FOR BRAND &

GRADING NOTES

- 22D M.J. TEE WITH THRUST BLOCKING (SEE SIZES THIS SHEET)
- ▶ 22E M.J. REDUCER (SEE SIZES THIS SHEET) Ty 22G 90' M.J. BEND WITH THRUST BLOCKING (SEE SIZES THIS SHEET)

 - 22Y INTERIOR BACKFLOW PREVENTER 73A SLIDING GATE

76A CONNECT 8" INLET FORCE MAIN TO EXISTING FORCE MAIN USING REQUIRED JOINTS, AND FITTINGS
76B REMOVE CAP AND CONNECT TO EXISTING 6" WATER LINE.

CAVE SPRINGS ARKANSAS REGÎSTERED **PROFESSIONAL** ENGINEER 3317 S.W. 1 Street

* * *

No.7944

10-10-05 DAT FF FF FF
DATE EOR PM DES DRW CAVE SPRINGS WASTEWATER TRANSFER SYSTEM - PHASE 1 ARKANSAS

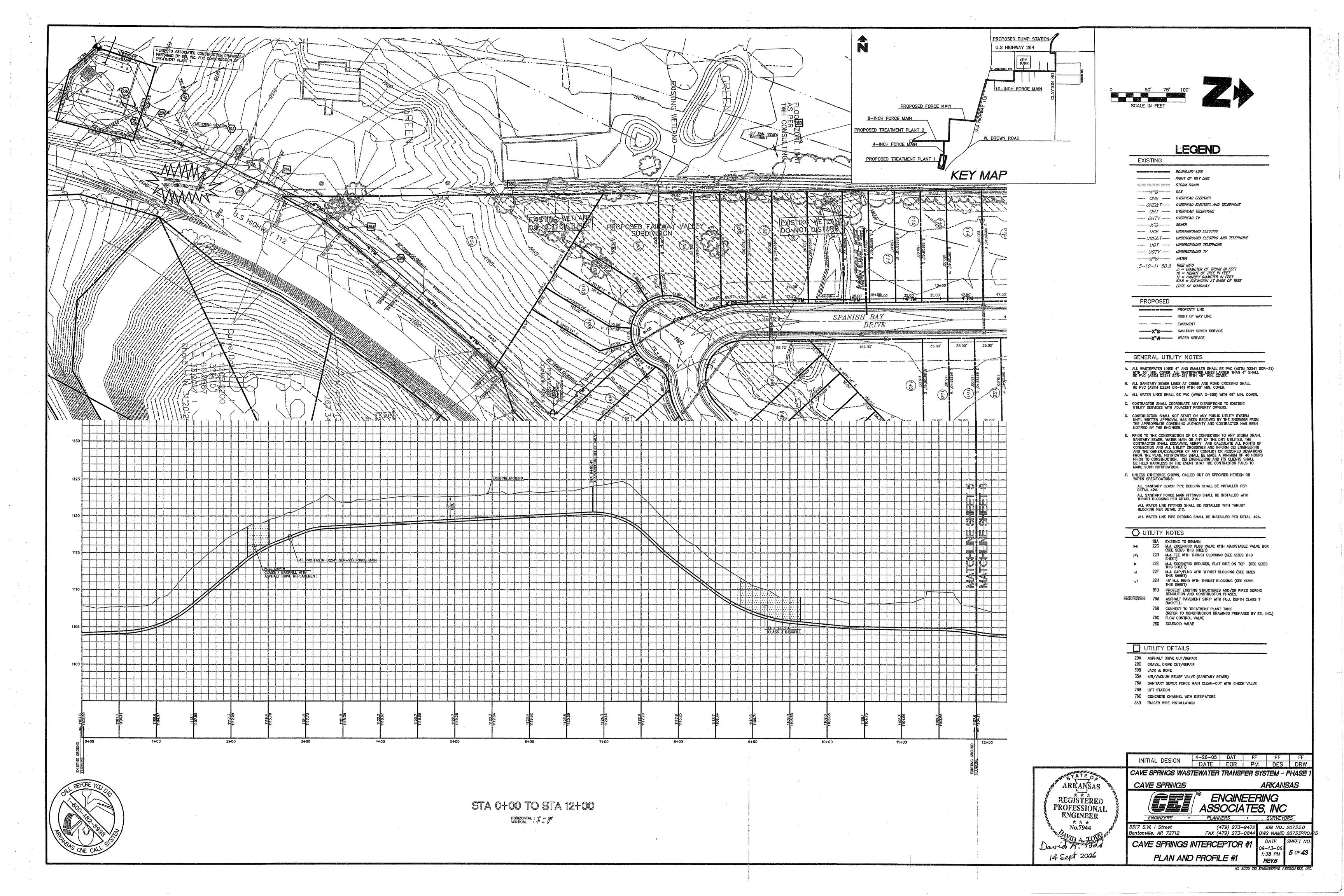
ENGINEERING ASSOCIATES, INC

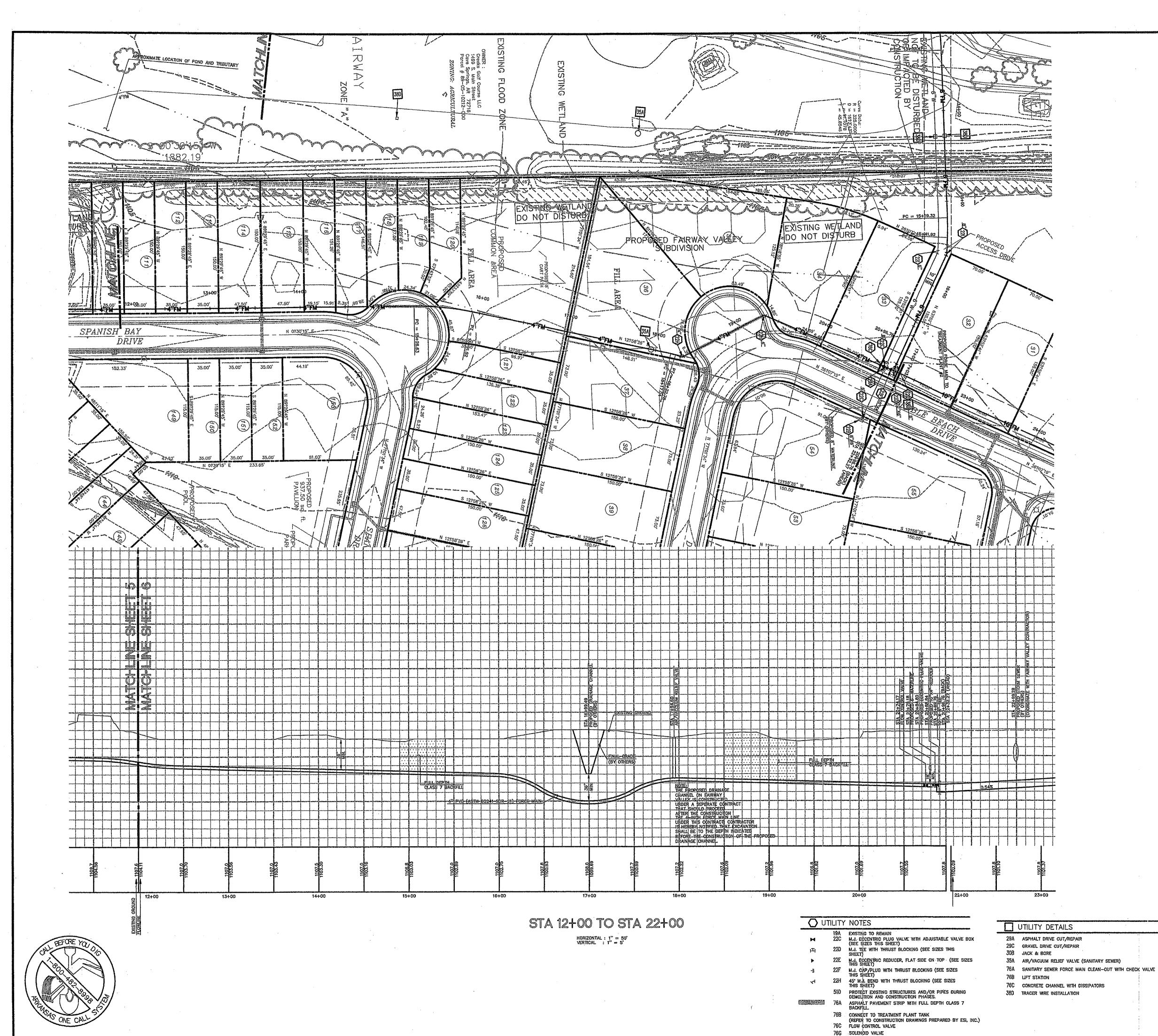
Bentonville, AR 72712 GRADING PLAN

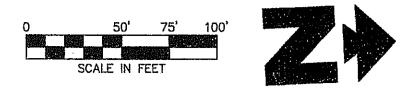
(479) 273-9472 JOB NO.: 20733 FAX (479) 273-0844 DWG NAME: 20733PUMPS DATE 08-21-06 PUMP STATION 10:33 AM 4 OF 43 REV. 5

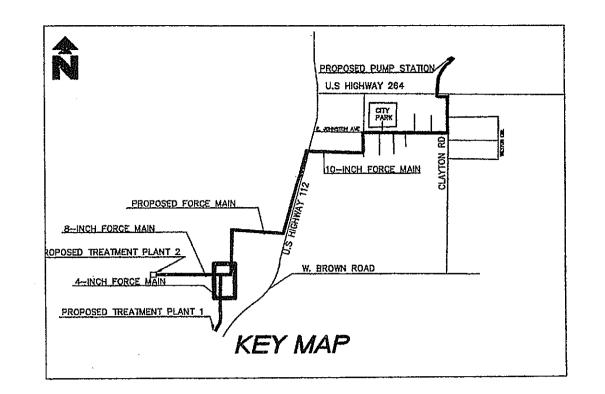
NOTE: CONTRACTOR SHALL COORDINATE WITH OTTER CREEK ESTATES CONTRACTOR DURING CONSTRUCTION

EXISTING GROUND ELEVATIONS, UTILITIES AND ROADS AS SHOWN ON THESE PLANS ARE PARTLY BASED ON DESIGN DRAWINGS FOR THE OTTER CREEK ESTATES SUBDIVISION, PREPARED BY CEI ENGINEERING. ACTUAL ELEVATIONS/LOCATIONS MAY DIFFER AFTER CONSTRUCTION OF OTTER CREEK ESTATES. THE CONTRACTOR SHALL INFORM CEI EGNINEERING OF ANY INCONSISTENCIES, DISCREPANCIES OR CONFLICTS THAT MAY ARISE.









BOUNDARY LINE
RIGHT OF WAY LINE
STORM DRAIN
GAS
OVERHEAD ELECTRIC
OVERHEAD ELECTRIC AND TELEPHONE
OVERHEAD TELEPHONE
OVERHEAD TV
SEWER
UNDERGROUND ELECTRIC
UNDERGROUND ELECTRIC AND TELEPHONE
UNDERGROUND TELEPHONE
UNDERGROUND TV
WA TER
TREE INFO .5 = DIAMETER OF TRUNK IN FEET 10 = HEIGHT OF TREE IN FEET 11 = CANOPY DIAMETER IN FEET 50.5 = FLEVATION AT BASE OF TREE

	LIGHTON CONT.
·	RIGHT OF WAY LIN
	EASEMENT

WATER SERVICE

PROPOSED

GENERAL UTILITY NOTES

- A. ALL WASTEWATER LINES 4" AND SMALLER SHALL BE PVC (ASTM D2241 SDR-21)
 WITH 36" MIN. COVER. ALL WASTEWATER LINES LARGER THAN 4" SHALL
 BE PVC (ASTM D2241 SDR-21) WITH 48" MIN. COVER.
- B. ALL SANITARY SEWER LINES AT CREEK AND ROAD CROSSING SHALL BE PVC (ASTM D2241 DR-14) WITH 60" MIN. COVER. A. ALL WATER LINES SHALL BE PVC (AWWA C-900) WITH 48" MIN. COVER.
- C. CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
- D. CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.
- E. PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM CEI ENGINEERING AND THE OWNER/DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. CEI ENGINEERING AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
- F. UNLESS OTHERWISE SHOWN, CALLED OUT OR SPECIFIED HEREON OR WITHIN SPECIFICATIONS:
- ALL SANITARY SEWER PIPE BEDDING SHALL BE INSTALLED PER DETAIL 42A. ALL SANITARY FORCE MAIN FITTINGS SHALL BE INSTALLED WITH THRUST BLOCKING PER DETAIL 31C.
- ALL WATER LINE FITTINGS SHALL BE INSTALLED WITH THRUST BLOCKING PER DETAIL 31C. ALL WATER LINE PIPE BEDDING SHALL BE INSTALLED PER DETAIL 42A.

CAVE SPRINGS

ARKANSAS

REGISTERED

PROFESSIONAL

ENGINEER

* * *

No.7944

CAVE SPRINGS WASTEWATER TRANSFER SYSTEM - PHASE ARKANSAS

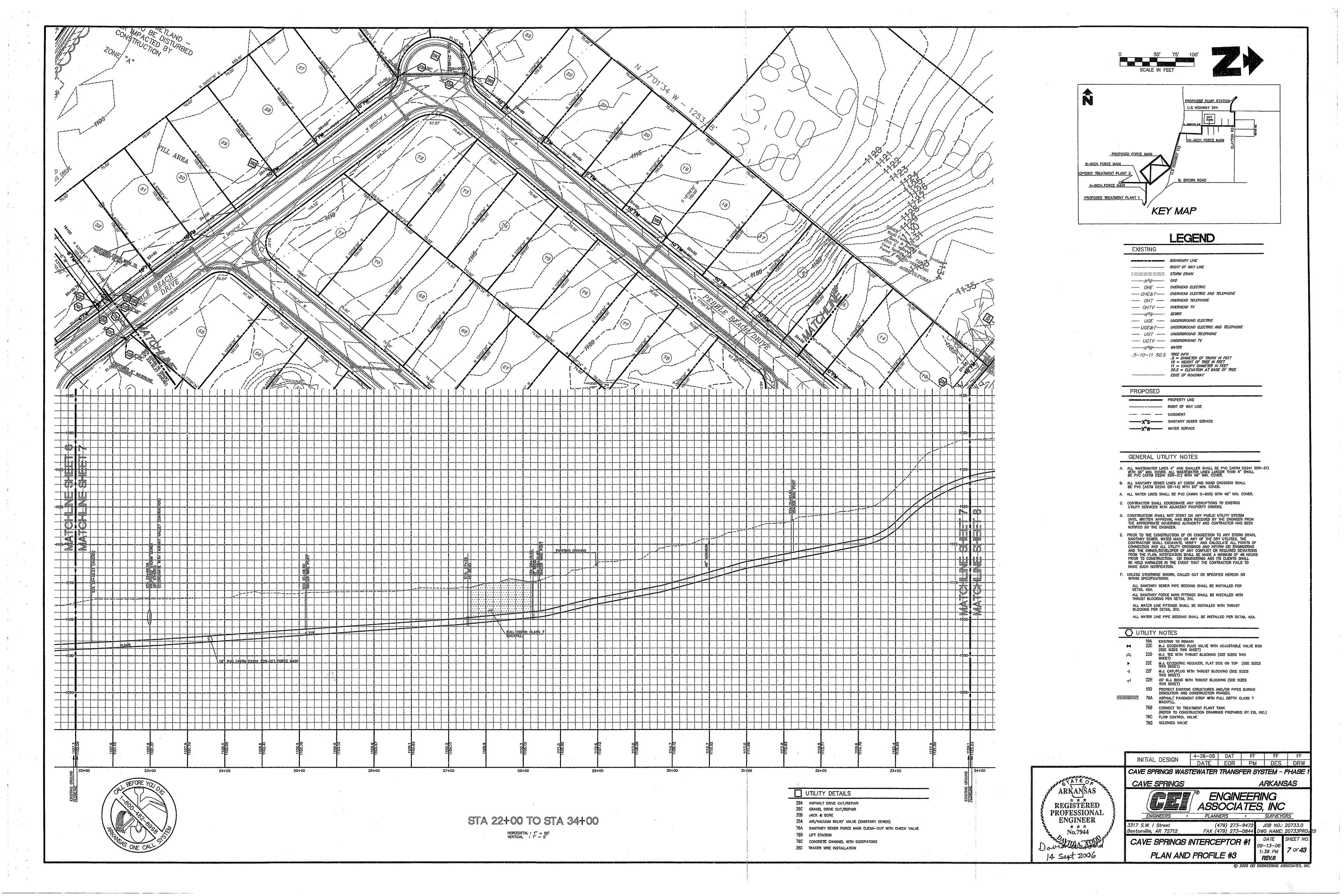
ENGINEERING

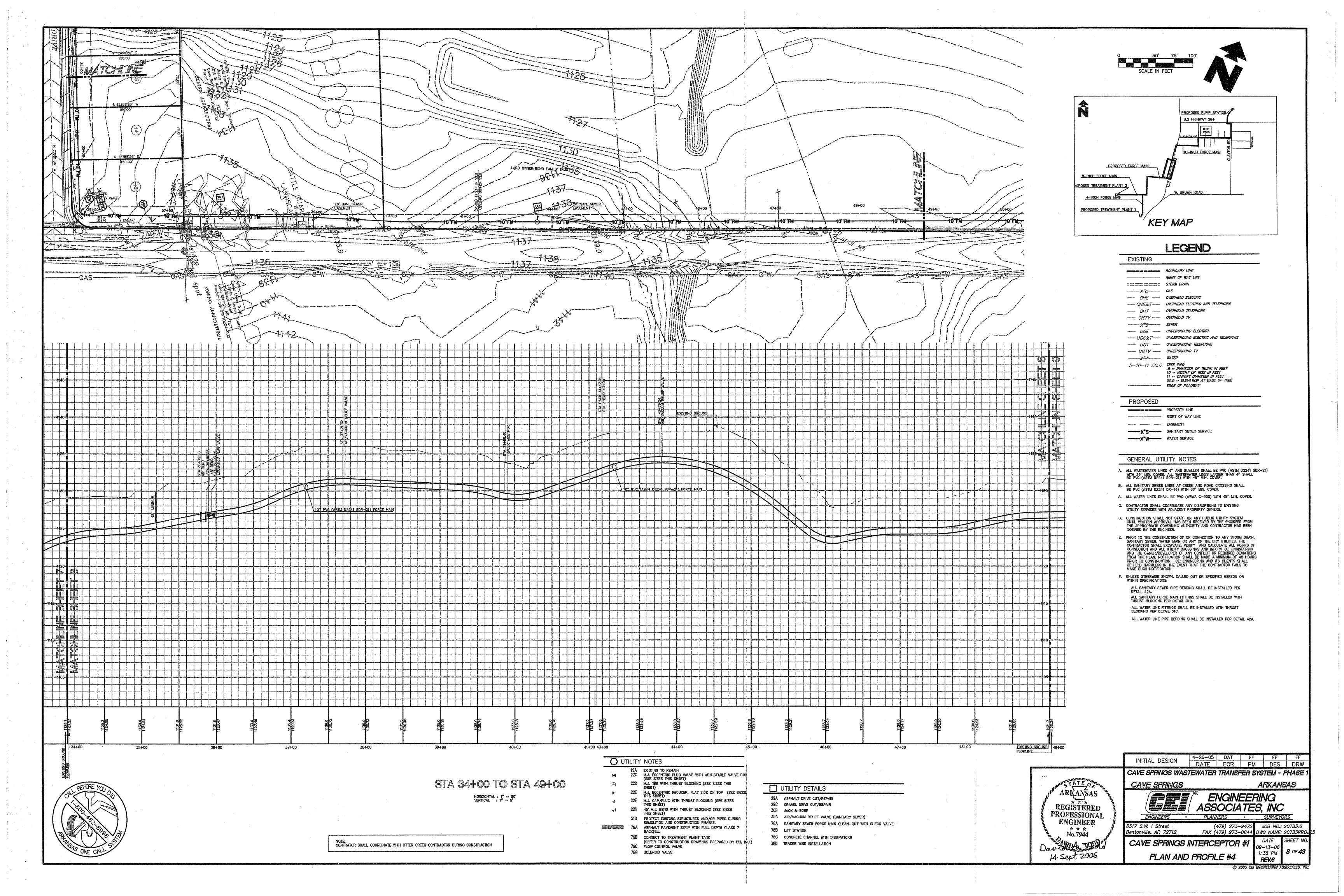
• PLANNERS • SURVEYORS 3317 S.W. | Street (479) 273-9472 JOB NO.: 20733.0 Bentonville, AR 72712 FAX (479) 273-0844 DWG NAME: 20733PRO DATE SHEET NO

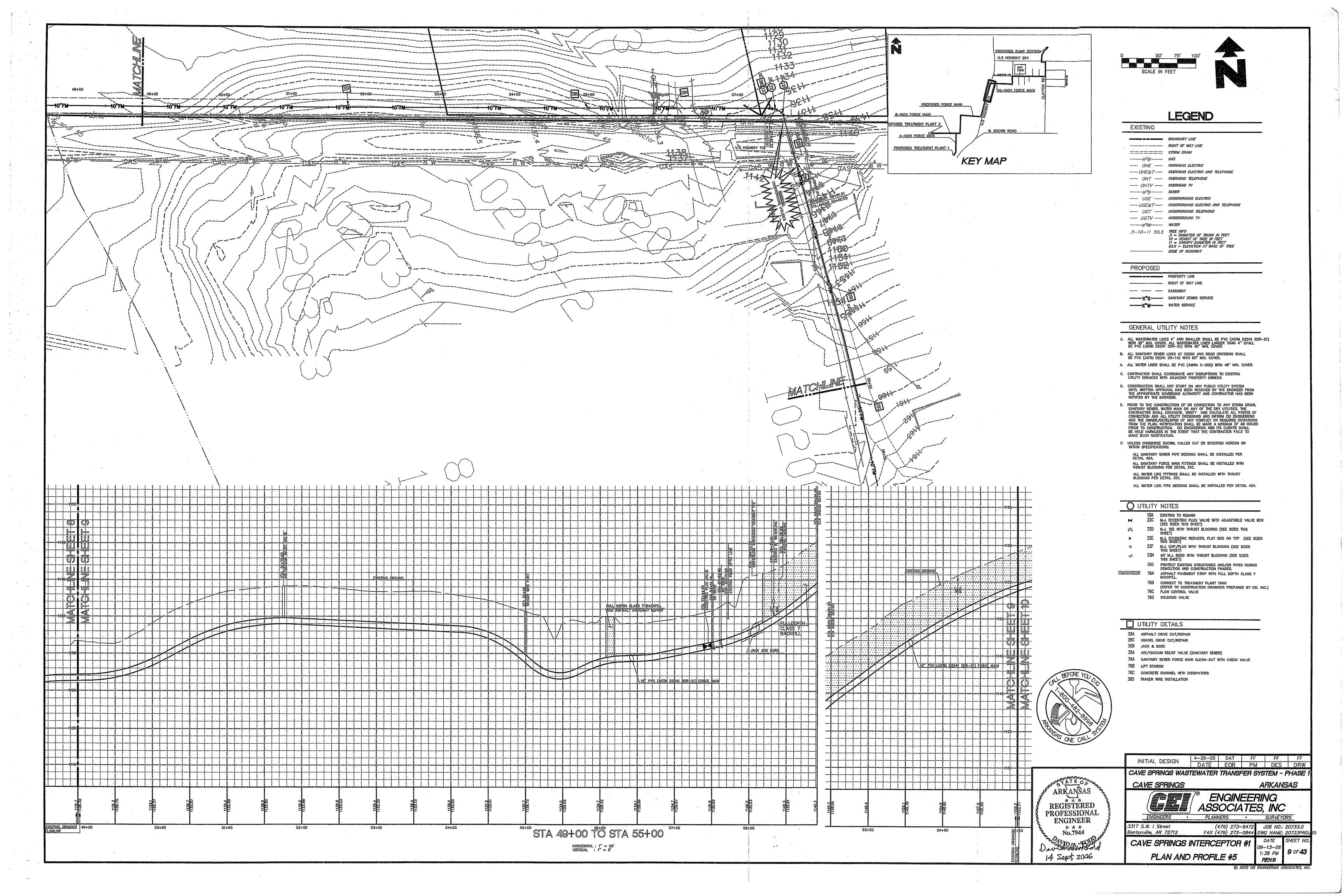
CAVE SPRINGS INTERCEPTOR #1

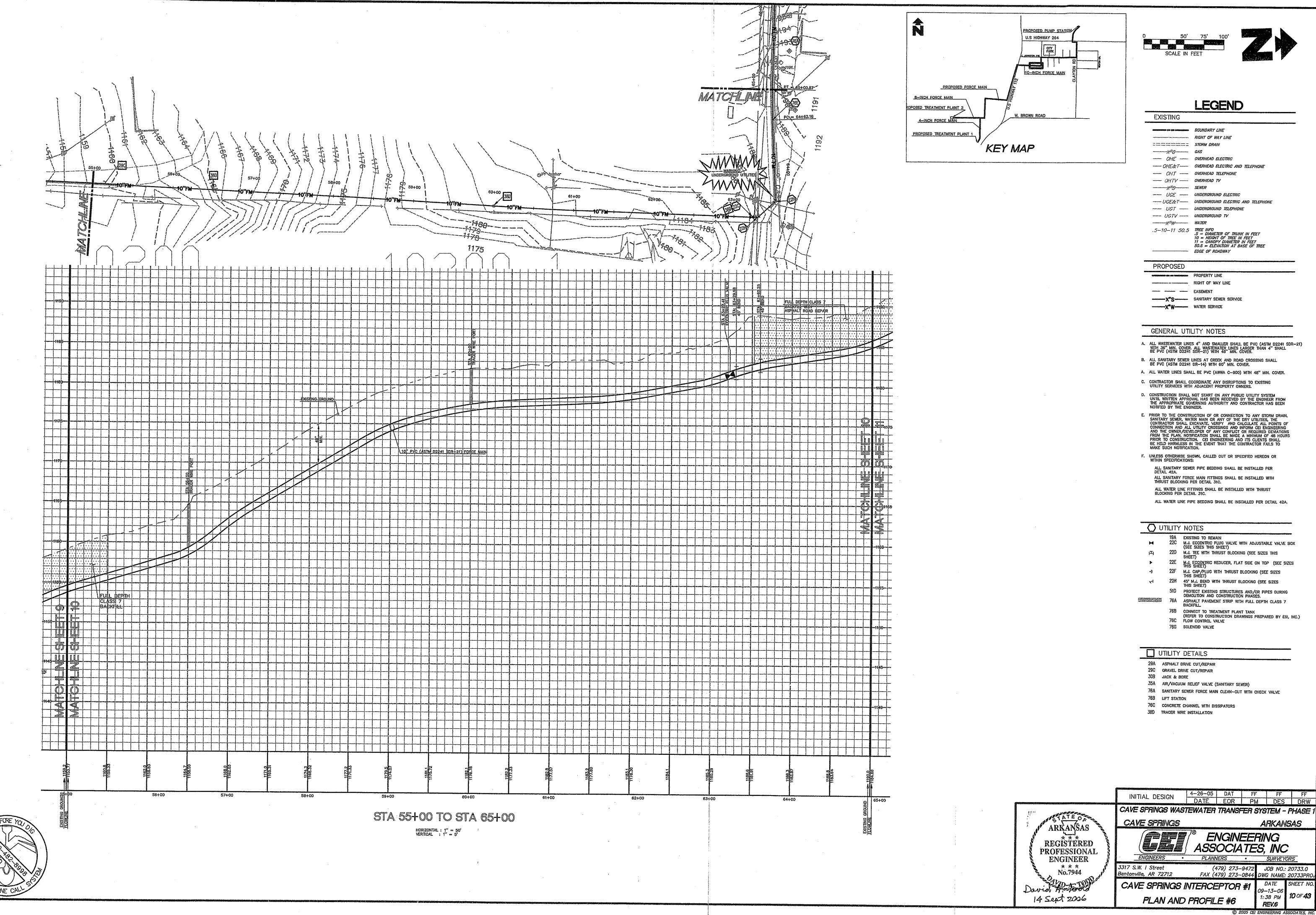
PLAN AND PROFILE #2

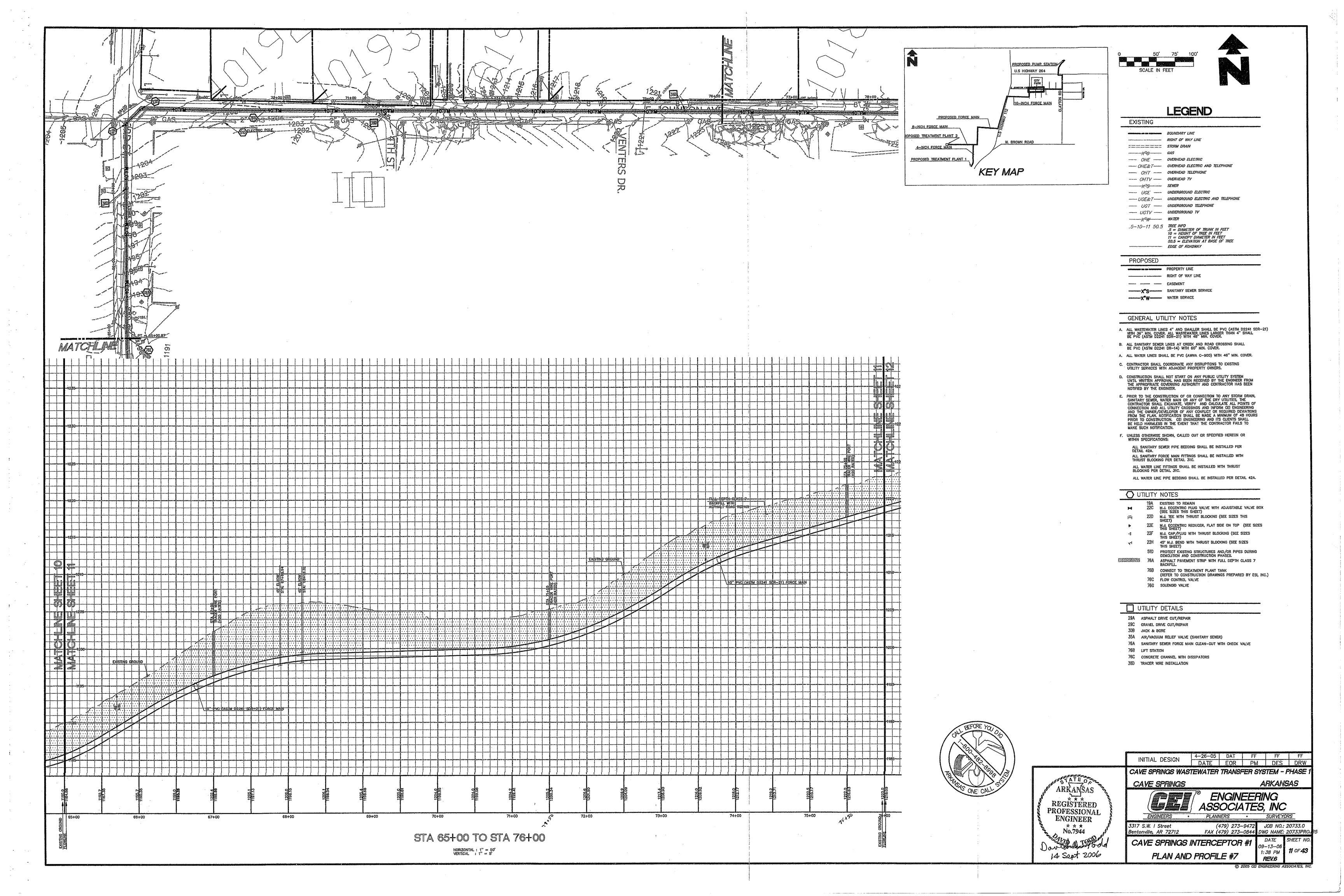
09-13-06 1:38 PM 6 OF 43 REV.6

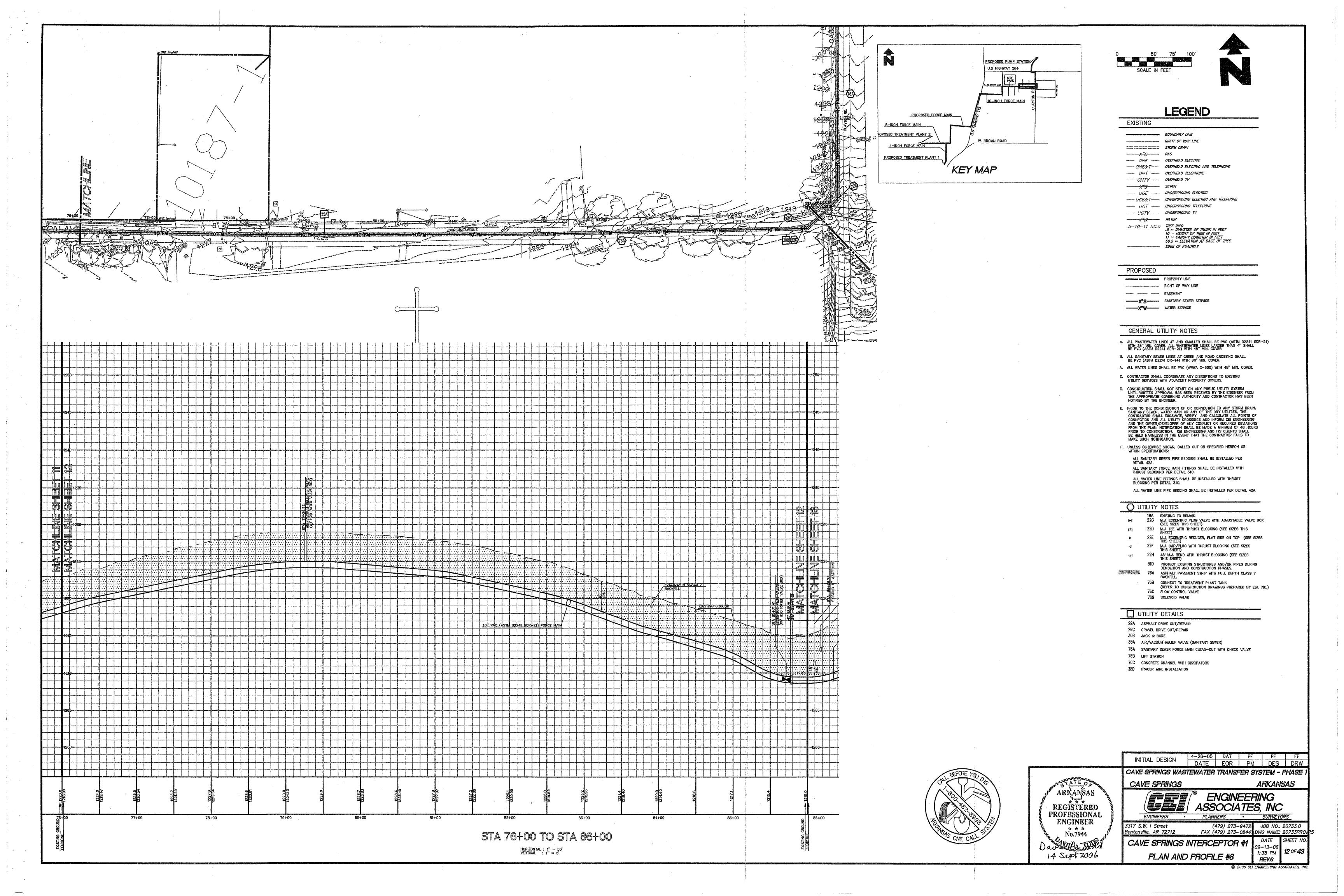


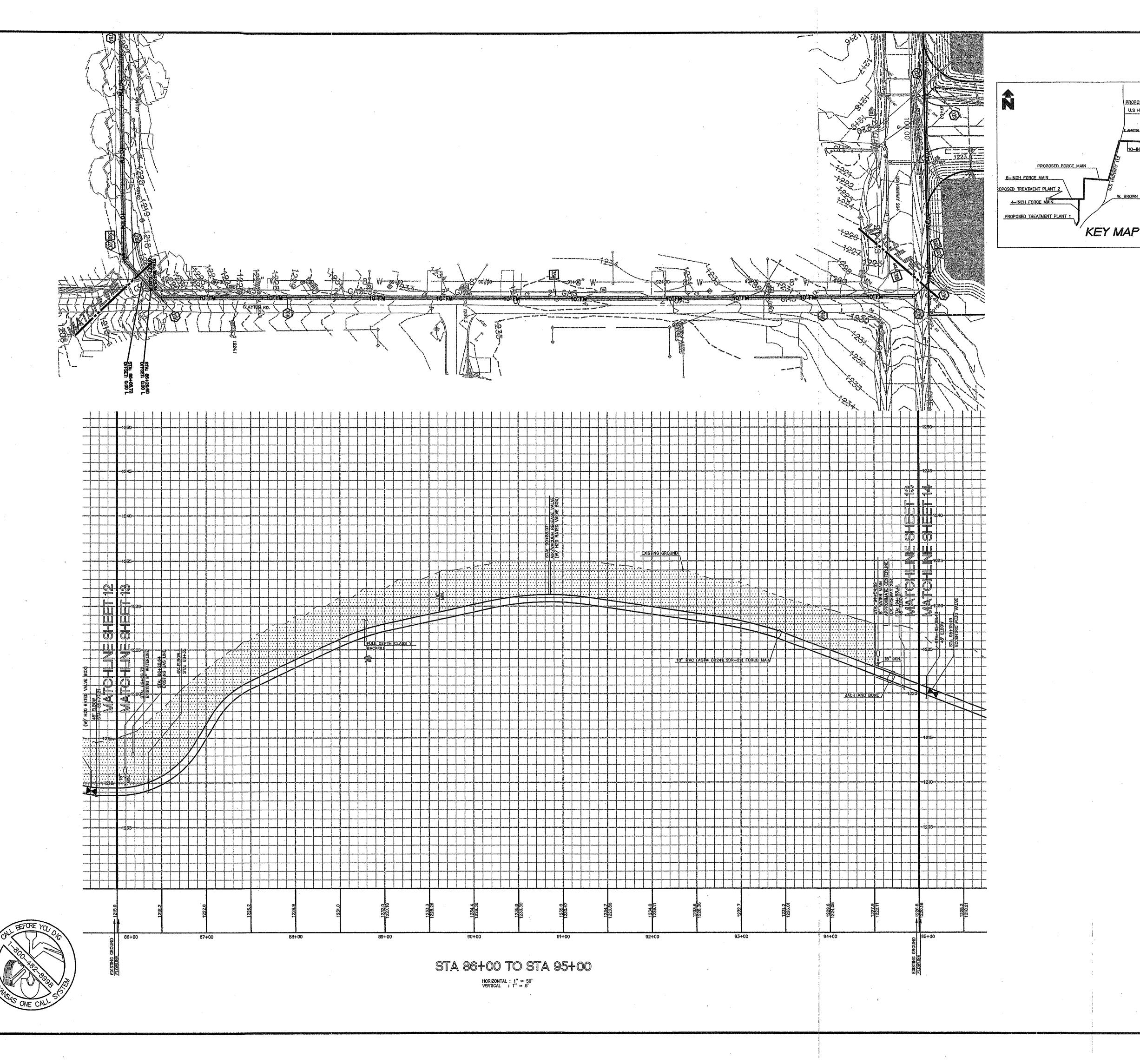


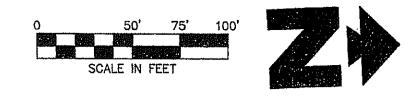












PROPOSED PUMP STATION U.S HIGHWAY 264

10-INCH FORCE MAIN

W. BROWN ROAD

LEGEND

_	EXISTING	
		BOUNDARY LINE
		RIGHT OF WAY LINE
		STORM DRAIN
		GAS
	OHE	OVERHEAD ELECTRIC
	OHE&T	OVERHEAD ELECTRIC AND TELEPHONE
	OHT	OVERHEAD TELEPHONE
	OHTV	OVERHEAD TV
		SEWER
	UGE	UNDERGROUND ELECTRIC
	UCE&T	UNDERGROUND ELECTRIC AND TELEPHONE
	UGT	UNDERGROUND TELEPHONE
	UGTV	UNDERGROUND TV
	XCIIV	WATER
	.5-10-11 50.5	TREE INFO .5 = DIAMETER OF TRUNK IN FEET 10 = HEIGHT OF TREE IN FEET 11 = CANOPY DIAMETER IN FEET 50.5 = ELEVATION AT BASE OF TREE

----X"W----- WATER SERVICE

GENERAL UTILITY NOTES

RIGHT OF WAY LINE

----X"S----- SANITARY SEWER SERVICE

PROPOSED

- A. ALL WASTEWATER LINES 4" AND SMALLER SHALL BE PVC (ASTM D2241 SDR-21) WITH 36" MIN. COVER. ALL WASTEWATER LINES LARGER THAN 4" SHALL BE PVC (ASTM D2241 SDR-21) WITH 48" MIN. COVER.
- ALL SANITARY SEWER LINES AT CREEK AND ROAD CROSSING SHALL. BE PVC (ASTM D2241 DR-14) WITH 60" MIN. COVER.
- A. ALL WATER LINES SHALL BE PVC (AWWA C-900) WITH 48" MIN. COVER.
- C. CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
- D. CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.
- E. PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND. ALL UTILITY CROSSINGS AND INFORM CEI ENGINEERING AND THE OWNER/DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. CEI ENGINEERING AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
- F. UNLESS OTHERWISE SHOWN, CALLED OUT OR SPECIFIED HEREON OR WITHIN SPECIFICATIONS: ALL SANITARY SEWER PIPE BEDDING SHALL BE INSTALLED PER

ALL SANITARY FORCE MAIN FITTINGS SHALL BE INSTALLED WITH THRUST BLOCKING PER DETAIL 31C. ALL WATER LINE FITTINGS SHALL BE INSTALLED WITH THRUST BLOCKING PER DETAIL 31C.

ALL WATER LINE PIPE BEDDING SHALL BE INSTALLED PER DETAIL 42A.

UTILITY NOTES

- 19A EXISTING TO REMAIN
 22C M.J. ECCENTRIC PLUG VALVE WITH ADJUSTABLE VALVE BOX
 (SEE SIZES THIS SHEET)
- 22D M.J. TEE WITH THRUST BLOCKING (SEE SIZES THIS SHEET)
- 22E MJ. ECCENTRIC REDUCER, FLAT SIDE ON TOP (SEE SIZES THIS SHEET)
- 22F M.J. CAP/PLUG WITH THRUST BLOCKING (SEE SIZES THIS SHEET)
- 22H 45' M.J. BEND WITH THRUST BLOCKING (SEE SIZES THIS SHEET)
- 51D PROTECT EXISTING STRUCTURES AND/OR PIPES DURING DEMOLITION AND CONSTRUCTION PHASES.

 76A ASPHALT PAVEMENT STRIP WITH FULL DEPTH CLASS 7 BACKFILL.

 - 76B CONNECT TO TREATMENT PLANT TANK
 (REFER TO CONSTRUCTION DRAWINGS PREPARED BY ESI, INC.)
 76C FLOW CONTROL VALVE
 - 76G SOLENOID VALVE

UTILITY DETAILS

- 29A ASPHALT DRIVE CUT/REPAIR
- 29C GRAVEL DRIVE CUT/REPAIR 30B JACK & BORE
- 35A AIR/VACUUM RELIEF VALVE (SANITARY SEWER)
- 76A SANITARY SEWER FORCE MAIN CLEAN-OUT WITH CHECK VALVE
- 76B LIFT STATION

76C CONCRETE CHANNEL WITH DISSIPATORS

ARKANSAS REGISTERED PROFESSIONAL ENGINEER * * * No.7944 14 Sept 2006

4-26-05 DAT FF FF CAVE SPRINGS WASTEWATER TRANSFER SYSTEM - PHASE ARKANSAS CAVE SPRINGS

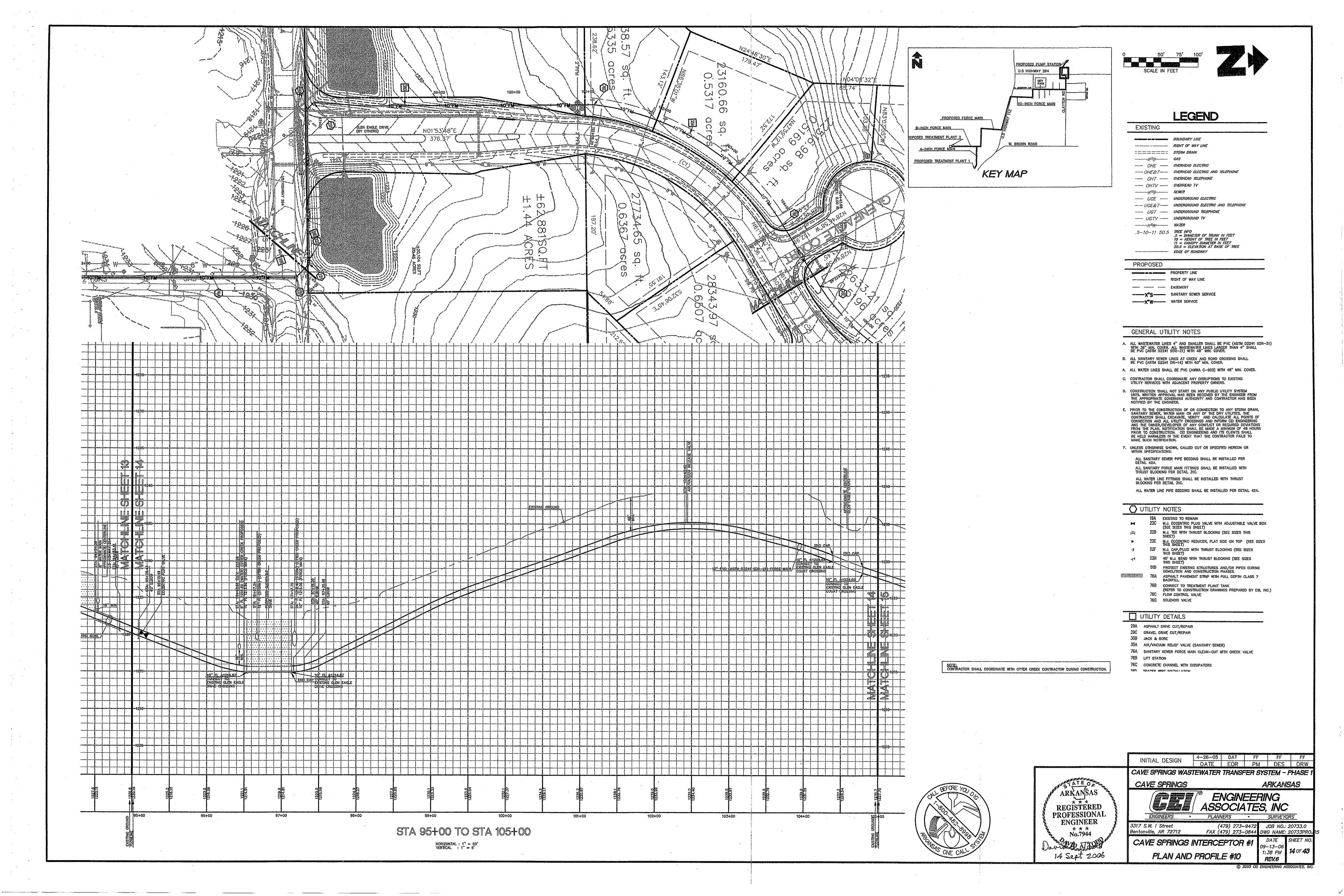
ENGINEERING ASSOCIATES, INC

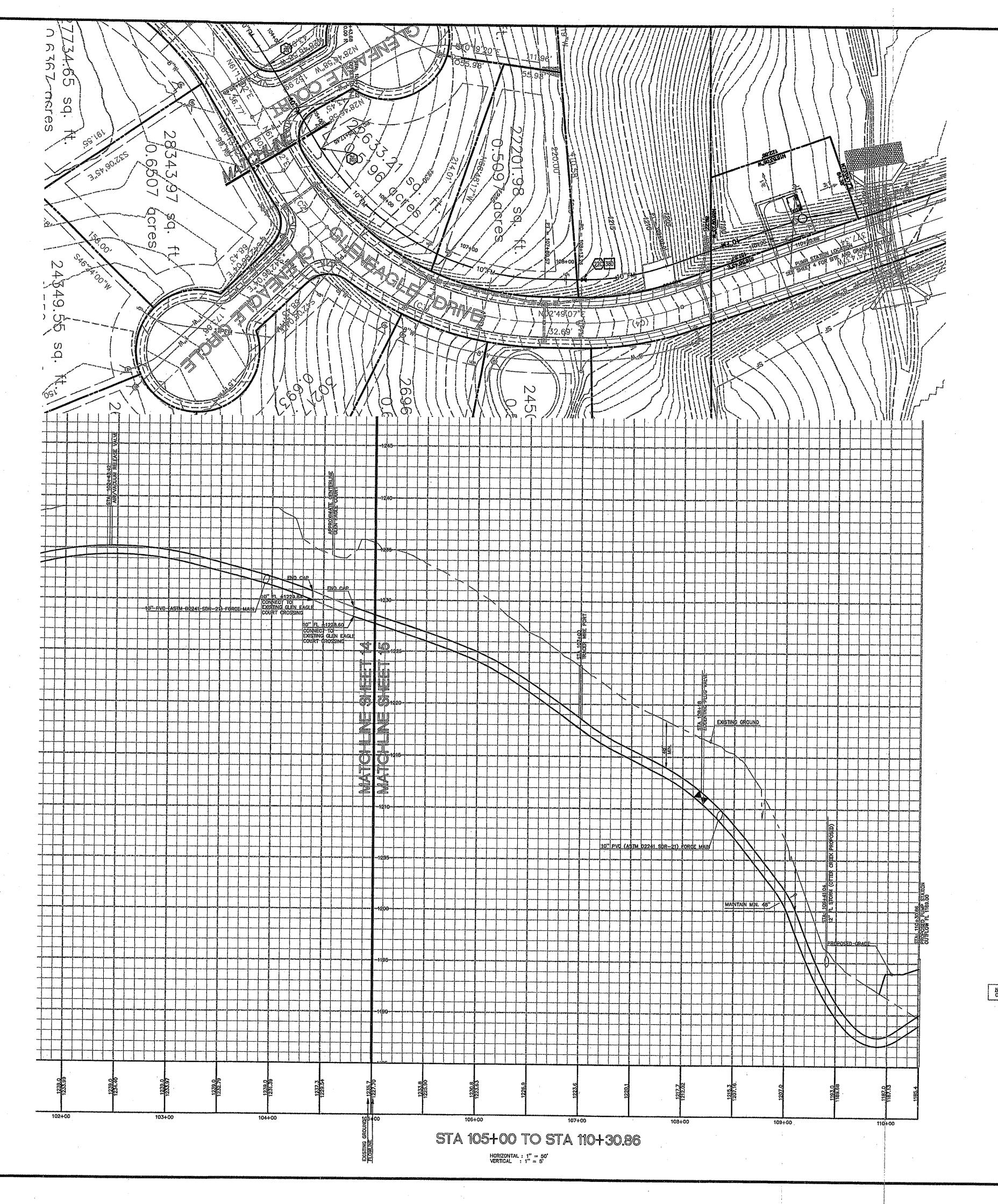
3317 S.W. I Street Bentonville, AR 72712

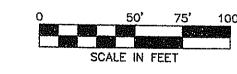
(479) 273–9472 JOB NO.: 20733.0 FAX (479) 273–0844 DWG NAME: 20733PROJ

CAVE SPRINGS INTERCEPTOR #1 PLAN AND PROFILE #9

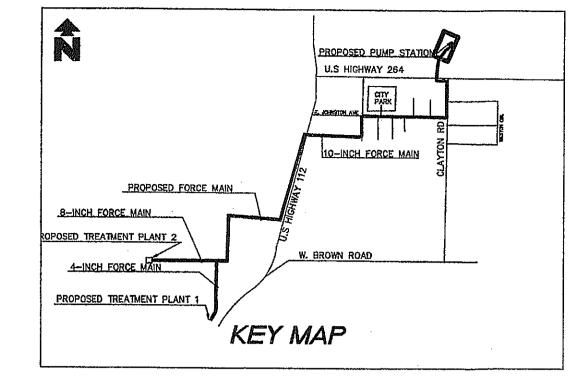
09-13-06 1:38 PM **13** OF **43** REV.6











I ECEND

	LEGEND
EXISTING	
	BOUNDARY LINE
	RIGHT OF WAY LINE
	STORM DRAIN
	GAS
OHE	OVERHEAD ELECTRIC
OHE&T	OVERHEAD ELECTRIC AND TELEPHONE
OHT	OVERHEAD TELEPHONE
OHTV	OVERHEAD TV
~—~ <u>}*"5</u>	SEWER
UGE	UNDERGROUND ELECTRIC
UGE&T	UNDERGROUND ELECTRIC AND TELEPHONE
UGT	UNDERGROUND TELEPHONE
UGTV	UNDERGROUND TV
	WA TER
.5-10-11 50.5	TREE INFO .5 = DIAMETER OF TRUNK IN FEET 10 = HEIGHT OF TREE IN FEET 11 = CANOPY DIAMETER IN FEET 50.5 = ELEVATION AT BASE OF TREE EDGE OF ROADWAY
	EDGE OF ROADWAY

PROPOSED

	RIGHT OF WAY LINE
	EASEMENT
x*s	SANITARY SEWER S

GENERAL UTILITY NOTES

A. ALL WASTEWATER LINES 4" AND SMALLER SHALL BE PVC (ASTM D2241 SDR-21) WITH 36" MIN, COVER, ALL WASTEWATER LINES LARGER THAN 4" SHALL, BE PVC (ASTM D2241 SDR-21) WITH 48" MIN, COVER.

- B. ALL SANITARY SEWER LINES AT CREEK AND ROAD CROSSING SHALL BE PVC (ASTM D2241 DR-14) WITH 60" MIN. COVER. A. ALL WATER LINES SHALL BE PVC (AWWA C-900) WITH 48" MIN. COVER.
- C. CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS;
- D. CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.
- E. PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM CEI ENGINEERING AND THE OWNER/DEVELOPER OF ANY CONFLICT OR REQUIRED DEWATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. CEI ENGINEERING AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
- F. UNLESS OTHERWISE SHOWN, CALLED OUT OR SPECIFIED HEREON OR WITHIN SPECIFICATIONS: ALL SANITARY SEWER PIPE BEDDING SHALL BE INSTALLED PER DETAIL 42A. ALL SANITARY FORCE MAIN FITTINGS SHALL BE INSTALLED WITH THRUST BLOCKING PER DETAIL 31C. ALL WATER LINE FITTINGS SHALL BE INSTALLED WITH THRUST BLOCKING PER DETAIL 31C.

UTILITY NOTES

EXISTING TO REMAIN 22C M.J. ECCENTRIC PLUG VALVE WITH ADJUSTABLE VALVE BOX (SEE SIZES THIS SHEET)

ALL WATER LINE PIPE BEDDING SHALL BE INSTALLED PER DETAIL 42A.

- 22D M.J. TEE WITH THRUST BLOCKING (SEE SIZES THIS SHEET)
- 22E M.J. ECCENTRIC REDUCER, FLAT SIDE ON TOP (SEE SIZES THIS SHEET)
- 22F M.J. CAP/PLUG WITH THRUST BLOCKING (SEE SIZES THIS SHEET) 22H 45" M.J. BEND WITH THRUST BLOCKING (SEE SIZES THIS SHEET)
- 51D PROTECT EXISTING STRUCTURES AND/OR PIPES DURING DEMOLITION AND CONSTRUCTION PHASES.

 76A ASPHALT PAVEMENT STRIP WITH FULL DEPTH CLASS 7 BACKFILL.

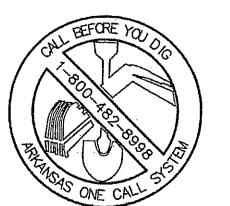
 - 76B CONNECT TO TREATMENT PLANT TANK
 (REFER TO CONSTRUCTION DRAWINGS PREPARED BY ESI, INC.)
 76C FLOW CONTROL VALVE

 - 76G SOLENOID VALVE

UTILITY DETAILS

- 29A ASPHALT DRIVE CUT/REPAIR
- 29C GRAVEL DRIVE CUT/REPAIR 30B JACK & BORE
- 35A AIR/VACUUM RELIEF VALVE (SANITARY SEWER)
- 76A SANITARY SEWER FORCE MAIN CLEAN-OUT WITH CHECK VALVE 76B LIFT STATION
- 76C CONCRETE CHANNEL WITH DISSIPATORS
- 38D TRACER WIRE INSTALLATION

NOTE: CONTRACTOR SHALL COORDINATE WITH OTTER CREEK CONTRACTOR DURING CONSTRUCTION.



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14 Sept 2006

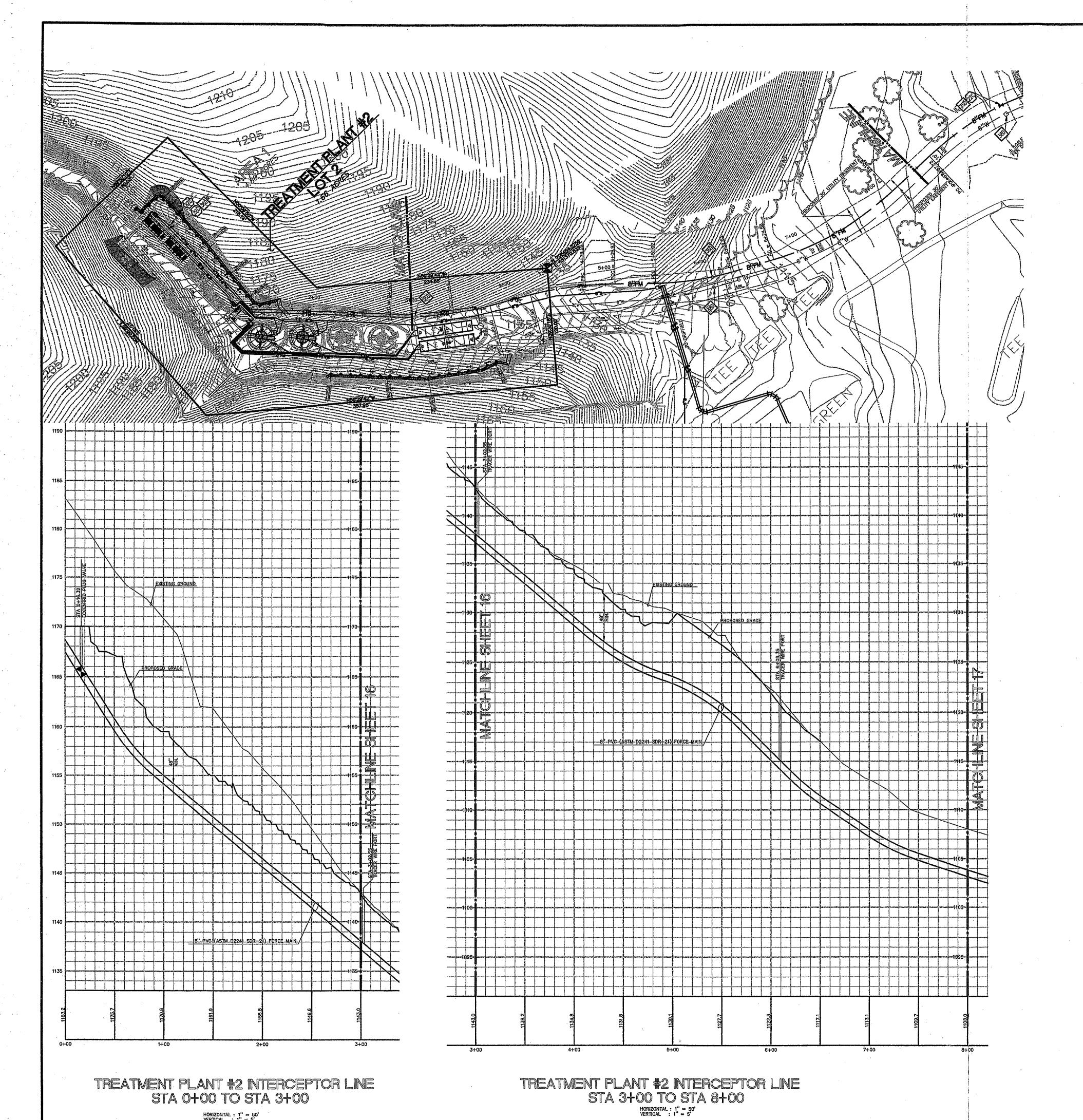
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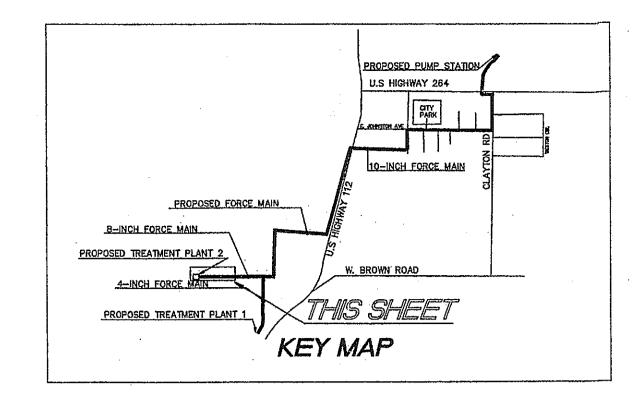
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 CAVE SPRINGS WASTEWATER TRANSFER SYSTEM - PHASE CAVE SPRINGS ARKANSAS [®] ENGINEERING ASSOCIATES, INC

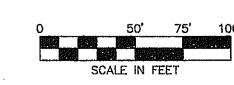
3317 S.W. I Street Bentonville, AR 72712 (479) 273-9472 JOB NO.: 20733.0 FAX (479) 273-0844 DWG NAME: 20733PRO

CAVE SPRINGS INTERCEPTOR #1 PLAN AND PROFILE #11

09-13-06 1: 38 PM 15 OF 43 REV.6







EXISTING



LEGEND

	BOUNDARY LINE
	RIGHT OF WAY LINE
المناه والمناه المناه المناه المناه والمناه المناه	STORM DRAIN
X"G	GAS
OHE	OVERHEAD ELECTRIC
OHE&T	OVERHEAD ELECTRIC AND TELEPHONE
OHT	OVERHEAD TELEPHONE
OHTV	OVERHEAD TV
~~~~\ <del>\"S</del> ~~~	SEWER
UGE	UNDERGROUND ELECTRIC
UGE&T	UNDERGROUND ELECTRIC AND TELEPHONE
UGT	UNDERGROUND TELEPHONE
UGTV	UNDERGROUND TV
	WATER
.5-10-11 50.5	TREE INFO .5 = DIAMETER OF TRUNK IN FEET 10 = HEIGHT OF TREE IN FEET 11 = CANOPY DIAMETER IN FEET 50.5 = ELEVATION AT BASE OF TREE

EDGE OF ROADWAY

PROPOSED	
***************************************	PROPERTY LINE
	RIGHT OF WAY LINE
	EASEMENT
<del></del> x*s	SANITARY SEWER SERVICE
——X"W——	WATER SERVICE

#### GENERAL UTILITY NOTES

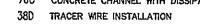
- A. ALL WASTEWATER LINES 4" AND SMALLER SHALL BE PVC (ASTM D2241 SDR-21) WITH 38" MIN. COVER. ALL WASTEWATER LINES LARGER THAN 4" SHALL BE PVC (ASTM D2241 SDR-21) WITH 48" MIN. COVER.
- A. ALL WATER LINES SHALL BE PVC (AWWA C-900) WITH 48" MIN. COVER.
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- E. PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM CEI ENGINEERING AND THE OWNER/DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. CEI ENGINEERING AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
- F. UNLESS OTHERWISE SHOWN, CALLED OUT OR SPECIFIED HEREON OR WITHIN SPECIFICATIONS: ALL SANITARY SEWER PIPE BEDDING SHALL BE INSTALLED PER DETAIL 42A. ALL WATER LINE FITTINGS SHALL BE INSTALLED WITH THRUST BLOCKING PER DETAIL 31C.
- ALL WATER LINE PIPE BEDDING SHALL BE INSTALLED PER DETAIL 42A.

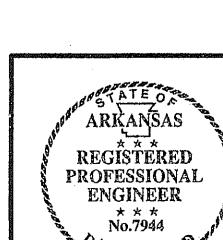
#### UTILITY NOTES

- 19A EXISTING TO REMAIN
  22C M.J. ECCENTRIC PLUG VALVE WITH ADJUSTABLE VALVE BOX (SEE SIZES THIS SHEET)
  22D M.J. TEE WITH THRUST BLOCKING (SEE SIZES THIS SHEET)
- 22E M.J. ECCENTRIC REDUCER, FLAT SIDE ON TOP (SEE SIZES THIS SHEET)
- 22F M.J. CAP/PLUG WITH THRUST BLOCKING (SEE SIZES THIS SHEET)
- 22H 45 M.J. BEND WITH THRUST BLOCKING (SEE SIZES THIS SHEET)
- 29A MAIDITEAN EMISTING STRUCTURE PARANTON PIPES DURING DEMOLITION AND CONSTRUCTION PHASES. 76A ASPHALT PAVEMENT STRIP WITH FULL DEPTH. CLASS 7 BACKFILL.
  - 76B CONNECT TO TREATMENT PLANT TANK
    (REFER TO CONSTRUCTION DRAWINGS PREPARED BY ESI, INC.)
  - 76C FLOW CONTROL VALVE
  - 76G SOLENOID VALVE

#### UTILITY DETAILS

- 29A ASPHALT DRIVE CUT/REPAIR
- 29C GRAVEL DRIVE CUT/REPAIR
- 30B JACK & BORE 35A AIR/VACUUM RELIEF VALVE (SANITARY SEWER)
- 76A SANITARY SEWER FORCE MAIN CLEAN-OUT WITH CHECK VALVE
- 76B LIFT STATION
- 76C CONCRETE CHANNEL WITH DISSIPATORS





14 Sept 2006

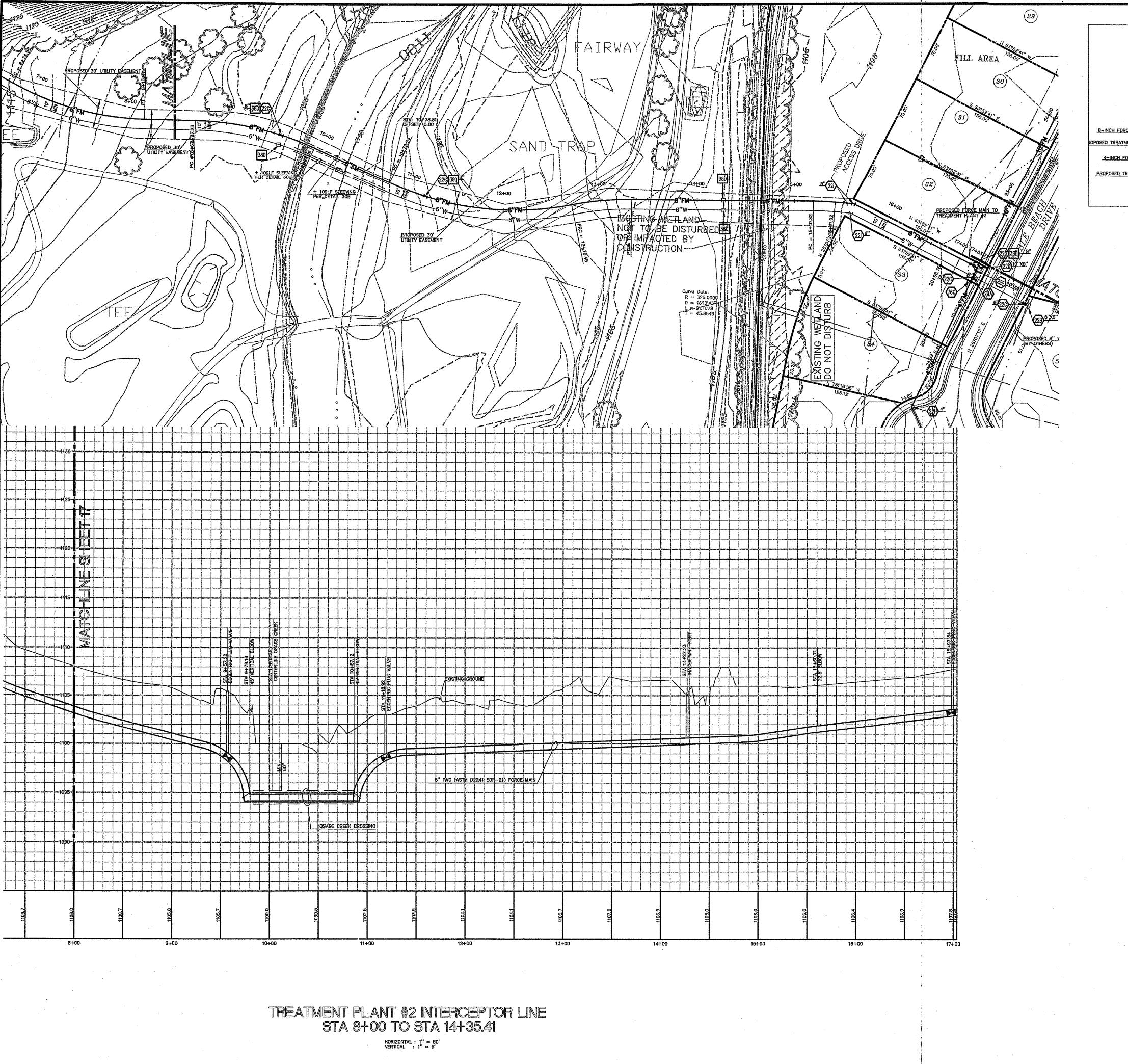
CAVE SPRINGS WASTEWATER TRANSFER SYSTEM - PHASE 1

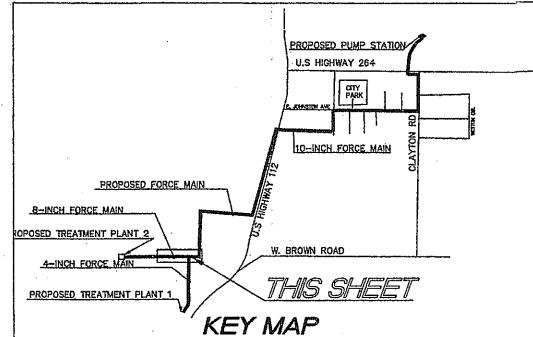
**ENGINEERING** ASSOCIATES, INC

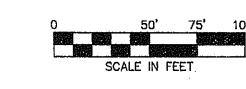
(479) 273-9472 JOB NO.: 20733.0 3317 S.W. | Street Bentonville, AR 72712 FAX (479) 273-0844 DWG NAME: 20733PRC

8-INCH INTERCEPTOR (TP2) 09-14-06

09: 23 AM 16 OF 43 REV.6 PLAN AND PROFILE 1









	Resident Collins I The
EXISTING	
فتنافأناناه والأراب	BOUNDARY LINE
	RIGHT OF WAY LINE
***************************************	STORM DRAIN
——————————————————————————————————————	GAS
OHE	OVERHEAD ELECTRIC
OHE&:T	OVERHEAD ELECTRIC AND TELEPHONE
OHT	OVERHEAD TELEPHONE
OHTV	OVERHEAD TV
<del></del>	SEWER
UGE	UNDERGROUND ELECTRIC
UGE&T	UNDERGROUND ELECTRIC AND TELEPHONE
UGT	UNDERGROUND TELEPHONE
UGTV	UNDERGROUND TV
	WATER
.5-10-11 50.5	TREE INFO  .5 == DIAMETER OF TRUNK IN FEET  10 == HEIGHT OF TREE IN FEET  11 == CANOPY DIAMETER IN FEET  50.5 == ELEVATION AT BASE OF TREE  EDGE OF ROADWAY
	LOUL OF HONDHAT

	PROPOSED	
_	مسيميسي هار باد ماسانسان	PROPERTY LINE
		RIGHT OF WAY LINE
		EASEMENT
	x"s	SANITARY SEWER SERVICE
	X*W	WATER SERVICE

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# UTILITY NOTES

- M.J. ECCENTRIC PLUG VALVE WITH ADJUSTABLE VALVE BOX (SEE SIZES THIS SHEET)
- 22D M.J. TEE WITH THRUST BLOCKING (SEE SIZES THIS SHEET)

ALL WATER LINE PIPE BEDDING SHALL BE INSTALLED PER DETAIL 42A.

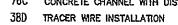
- 22E M.J. ECCENTRIC REDUCER, FLAT SIDE ON TOP (SEE SIZES THIS SHEET)
- 22H 45' M.J. BEND WITH THRUST BLOCKING (SEE SIZES THIS SHEET)
- 51D PROTECT EXISTING STRUCTURES AND/OR PIPES DURING DEMOLITION AND CONSTRUCTION PHASES. 76A ASPHALT PAVEMENT STRIP WITH FULL DEPTH CLASS 7 BACKFILL.
  - 76B CONNECT TO TREATMENT PLANT TANK
    (REFER TO CONSTRUCTION DRAWINGS PREPARED BY ESI, INC.)
    76C FLOW CONTROL VALVE

#### 76G SOLENOID VALVE

29A ASPHALT DRIVE CUT/REPAIR

UTILITY DETAILS

- 29C GRAVEL DRIVE CUT/REPAIR
- 30B JACK & BORE 35A AIR/VACUUM RELIEF VALVE (SANITARY SEWER)
- 76A SANITARY SEWER FORCE MAIN CLEAN-OUT WITH CHECK VALVE
- 76B LIFT STATION
- 76C CONCRETE CHANNEL WITH DISSIPATORS





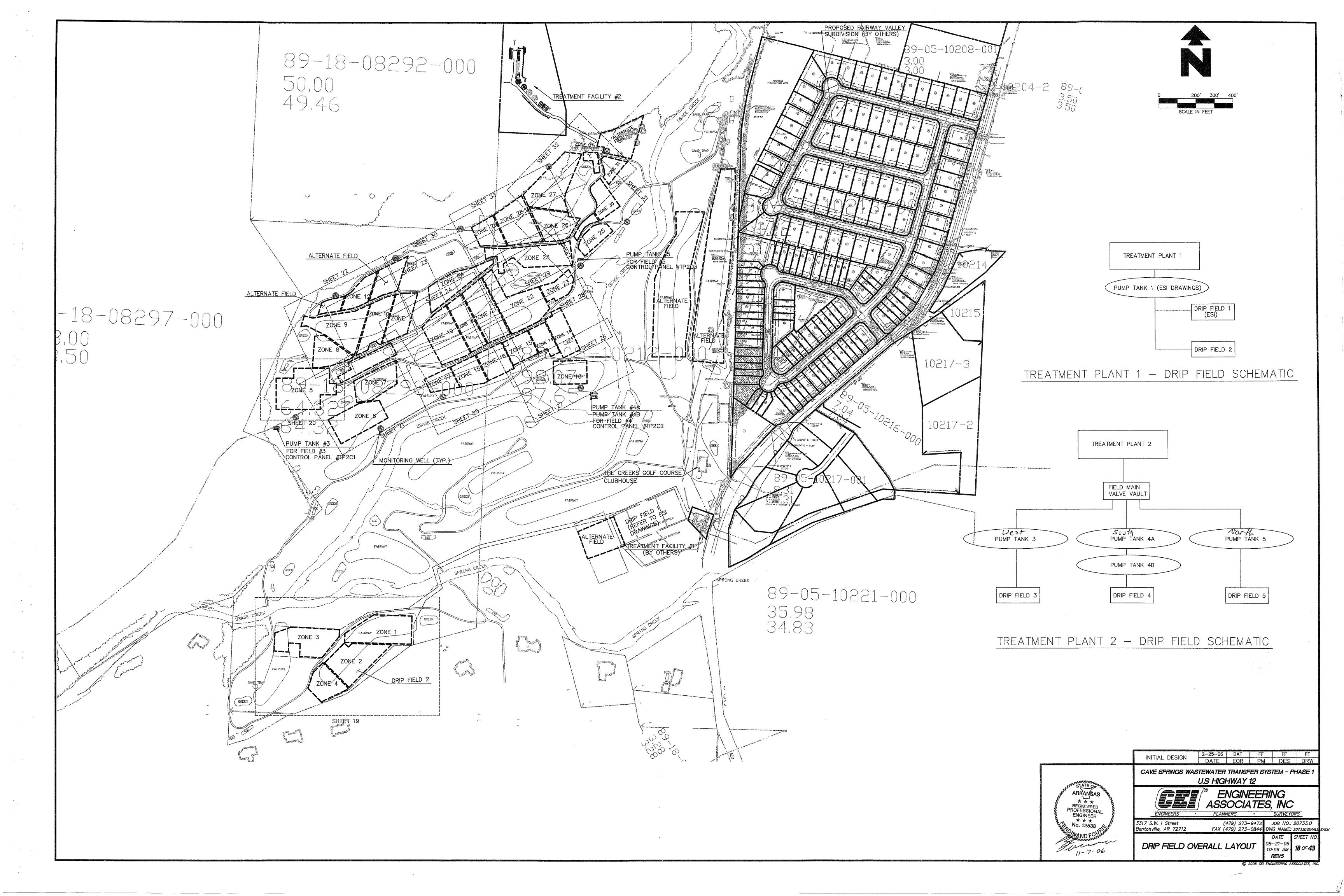
CAVE SPRINGS WASTEWATER TRANSFER SYSTEM - PHASE 1 ARKANSAS REGISTERED PROFESSIONAL ENGINEER 3317 S.W. I Street Bentonville, AR 72712 No.7944

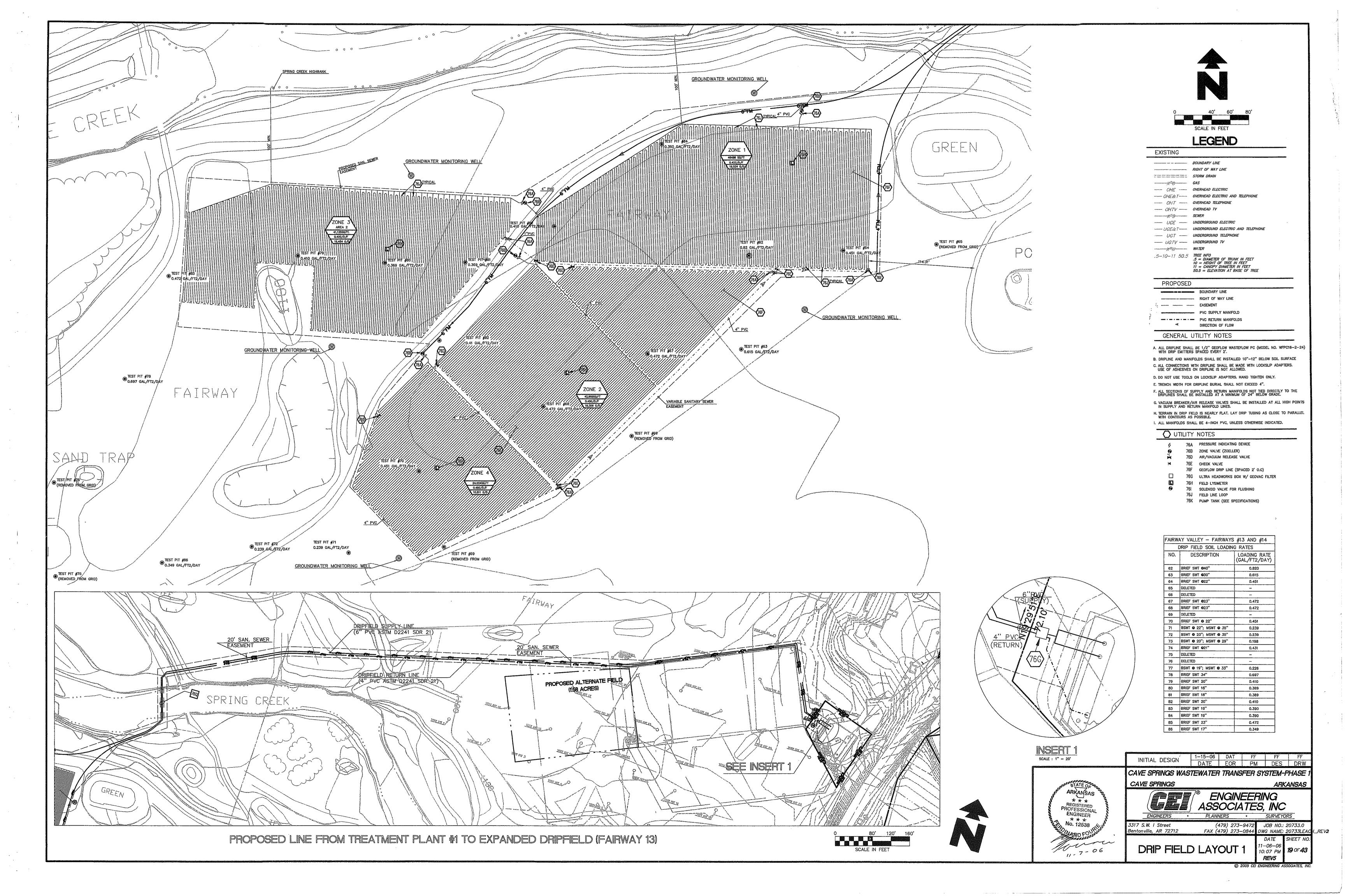
ENGINEERING ASSOCIATES, INC (479) 273-9472 FAX (479) 273-0844 DWG NAME: 20733PROJ

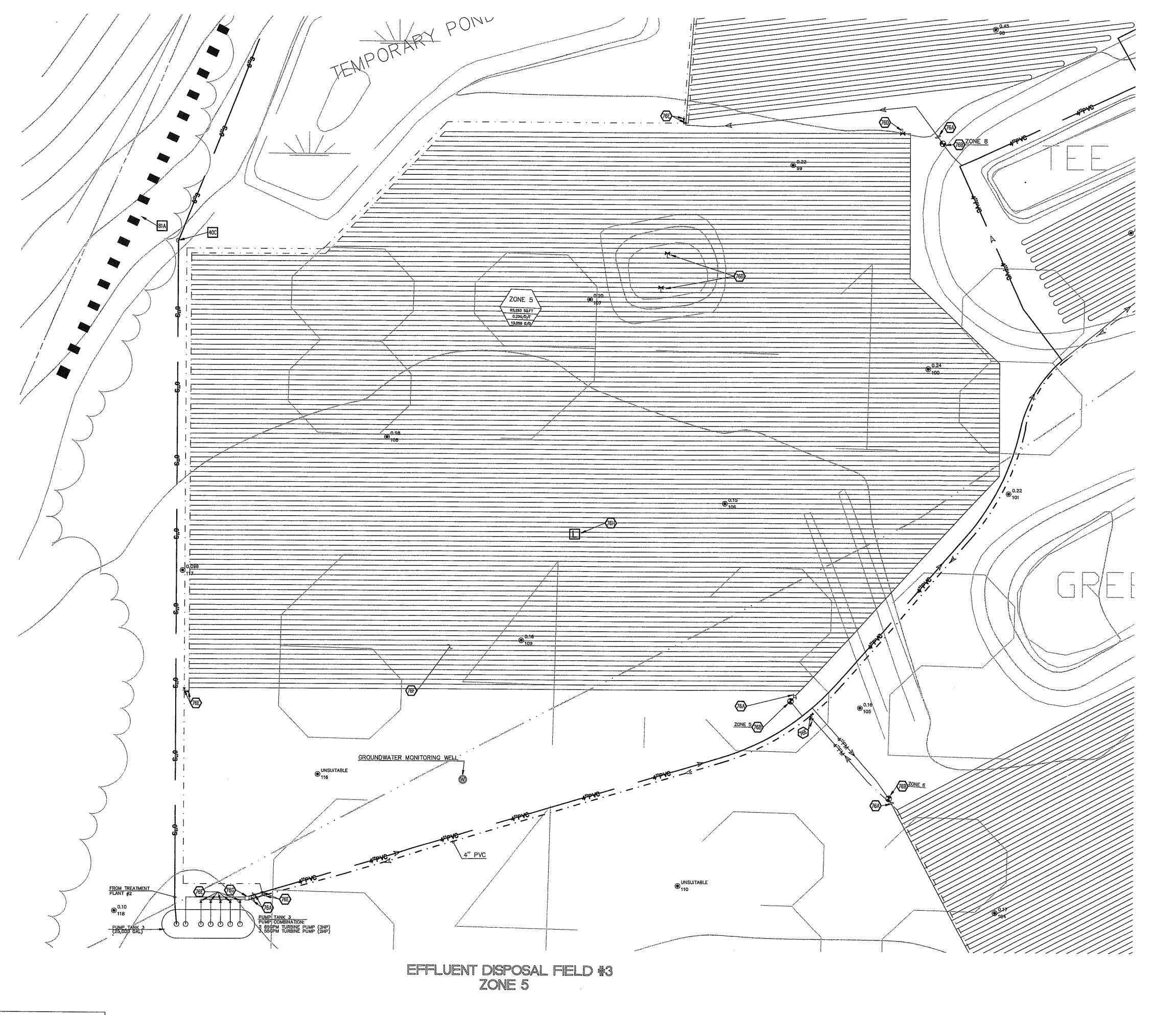
8-INCH INTERCEPTOR (TP2) PLAN AND PROFILE 2

09-13-06 1:38 PM **17** OF **43** REV.6

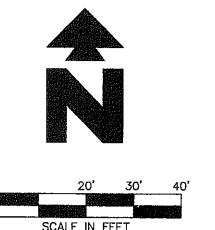
JOB NO.: 20733.0







NOTE: OVERALL EFFLUENT DISPOSAL FIELD LAYOUT IS ON SHEET 18



#### LEGEND

EXISTING	
	BOUNDARY LINE
*********************************	RIGHT OF WAY LINE
	STORM DRAIN
<del>}:"6</del>	GAS
OHE	OVERHEAD ELECTRIC
	OVERHEAD ELECTRIC AND TELEPHONE
	OVERHEAD TELEPHONE
	OVERHEAD TV
<del></del>	SEWER
	UNDERGROUND ELECTRIC
	UNDERGROUND ELECTRIC AND TELEPHONE
	UNDERGROUND TELEPHONE
USTV	UNDERGROUND TV
X"4"	WATER
,5-10-11 50.5	TREE INFO .5 = DIAMETER OF TRUNK IN FEET 10 = HEIGHT OF TREE IN FEET 11 = CANOPY DIAMETER IN FEET 50.5 = ELEVATION AT BASE OF TREE

PROPOSED	
	BOUNDARY LINE
	RIGHT OF WAY LINE
···	EASEMENT
	PVC SUPPLY MANIFOLD
<del></del>	PVC RETURN MANIFOLDS
, X.xx	DIRECTION OF FLOW
	PERC TEST LOCATION
GENERAL UT	TILITY NOTES

A. ALL DRIPLINE SHALL BE 1/2" GEOFLOW WASTEFLOW PC (MODEL NO. WFPC16-2-24) WITH DRIP EMITTERS SPACED EVERY 2'. B. DRIPLINE AND MANIFOLDS SHALL BE INSTALLED 10"-12" BELOW SOIL SURFACE C.ALL CONNECTIONS WITH DRIPLINE SHALL BE MADE WITH LOCKSLIP ADAPTERS. USE OF ADHESIVES ON DRIPLINE IS NOT ALLOWED. D.DO NOT USE TOOLS ON LOCKSLIP ADAPTERS, HAND TIGHTEN ONLY. E.TRENCH WIDTH FOR DRIPLINE BURIAL SHALL NOT EXCEED 4". F. ALL SECTIONS OF SUPPLY AND RETURN MANIFOLDS NOT TIED DIRECTLY TO THE DRIPLINES SHALL BE INSTALLED AT A MINIMUM OF 24" BELOW GRADE. G.VACUUMBREAKER/AIR RELEASE VALVES SHALL BE INSTALLED AT ALL HIGH POINTS IN SUPPLY AND RETURN MANIFOLD LINES. H.TERRAIN IN DRIP FIELD IS NEARLY FLAT. LAY DRIP TUBING AS CLOSE TO PARALLEL WITH CONTOURS AS POSSIBLE. 1. ALL MANIFOLDS SHALL BE 4-INCH PVC, UNLESS OTHERWISE INDICATED.

#### UTILITY DETAILS

81A TEMPORARY DIVERSION DIKE

## UTILITY NOTES

76A PRESSURE INDICATING DEVICE 76B ZONE VALVE (ZOELLER) 76D AIR/VACUUM RELEASE VALVE

76E CHECK VALVE

76F GEOFLOW DRIP LINE (SPACED 2' O.C) ☐ 76G ULTRA HEADWORKS BOX W/ GEOVAC FILTER

76H FIELD LYSIMETER

761 SOLENOID VALVE FOR FLUSHING

76J FIELD LINE LOOP 76K PUMP TANK (SEE SPECIFICATIONS)

 
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 CAVE SPRINGS WASTEWATER SYSTEM - PHASE 1 CAVE SPRINGS ARKANSAS

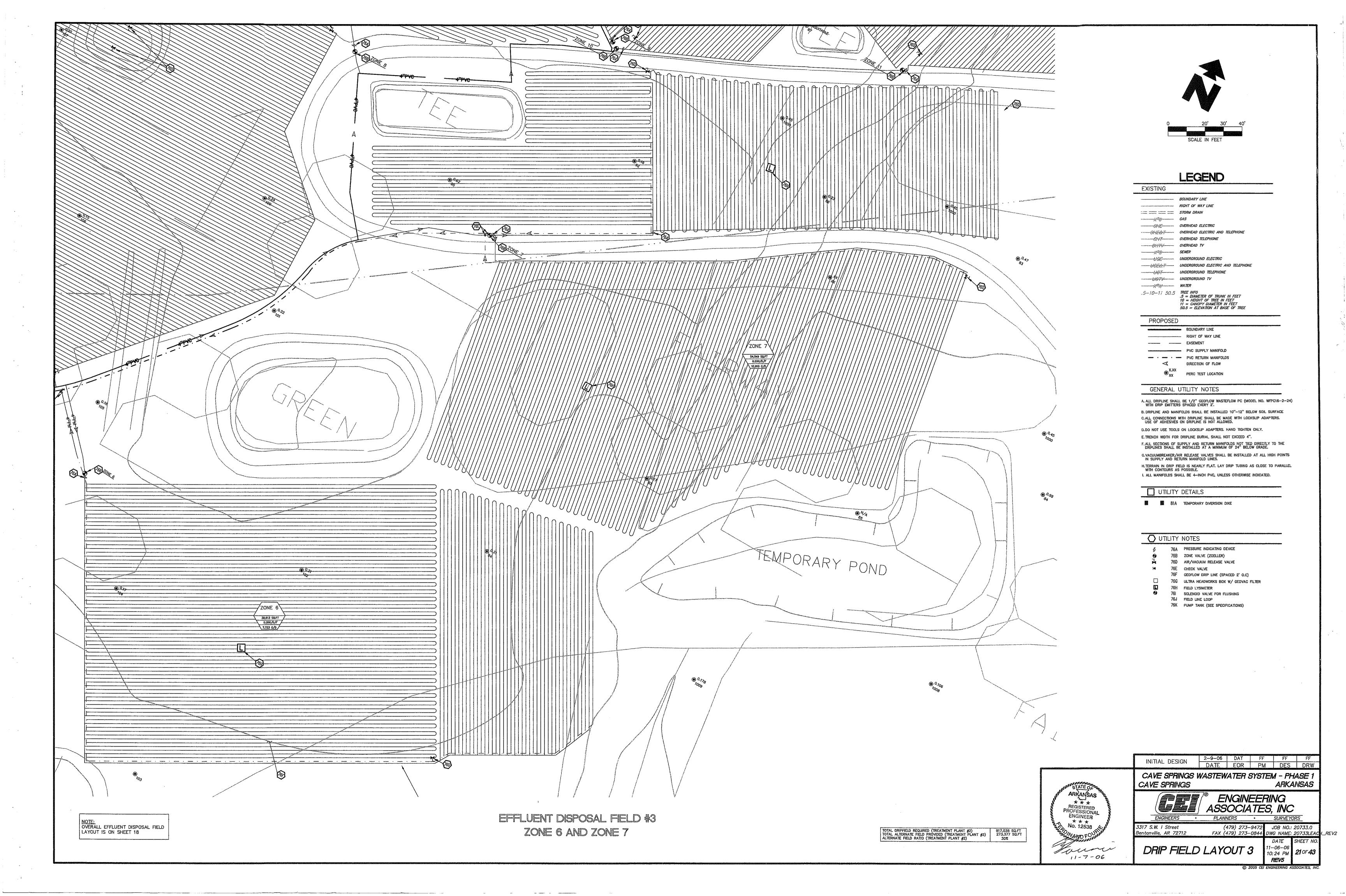
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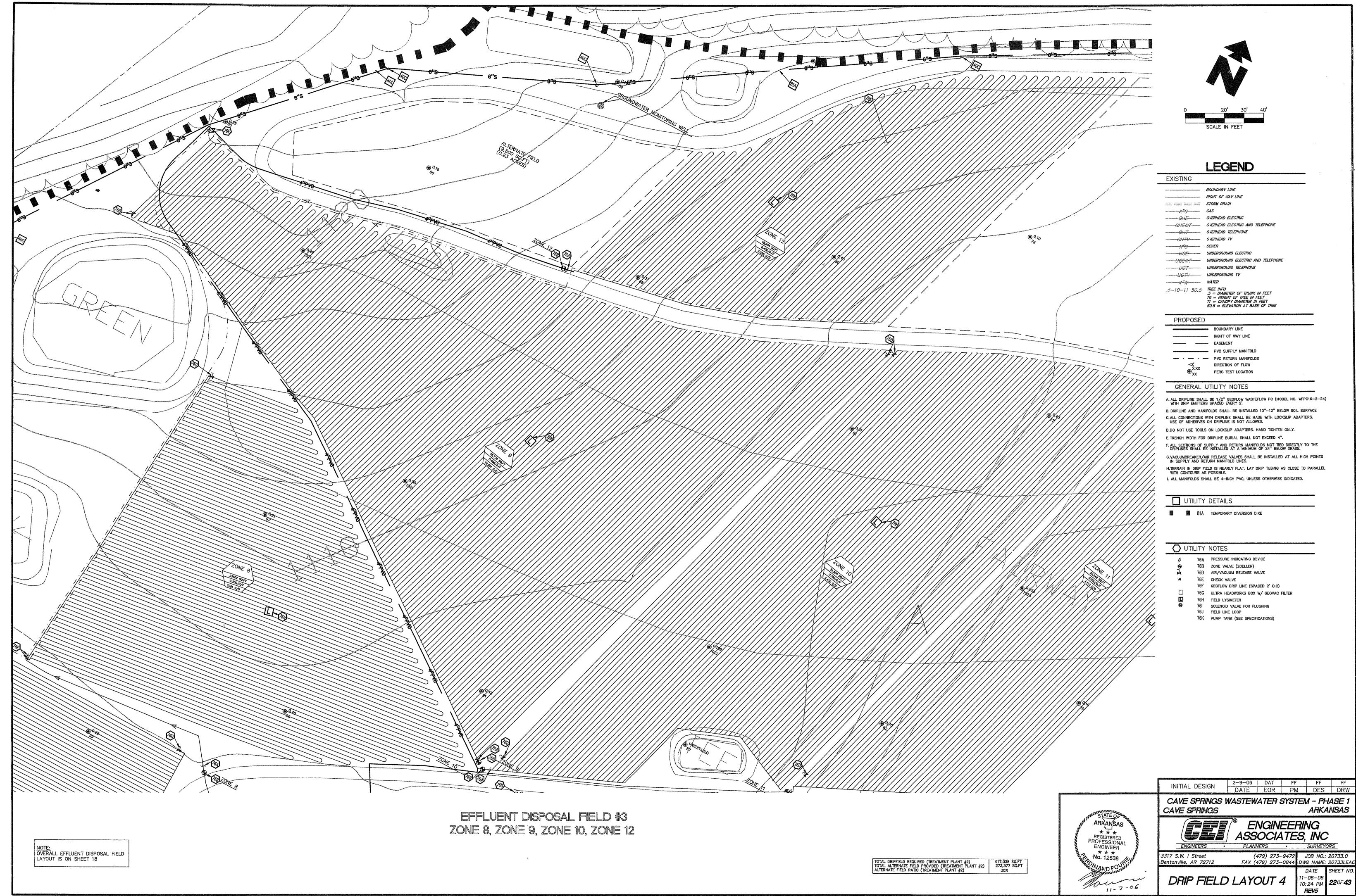
(479) 273—9472 JOB NO.: 20733.0 FAX (479) 273—0844 DWG NAME: 20733LEACH 3317 S.W. | Street entonville, AR 72712

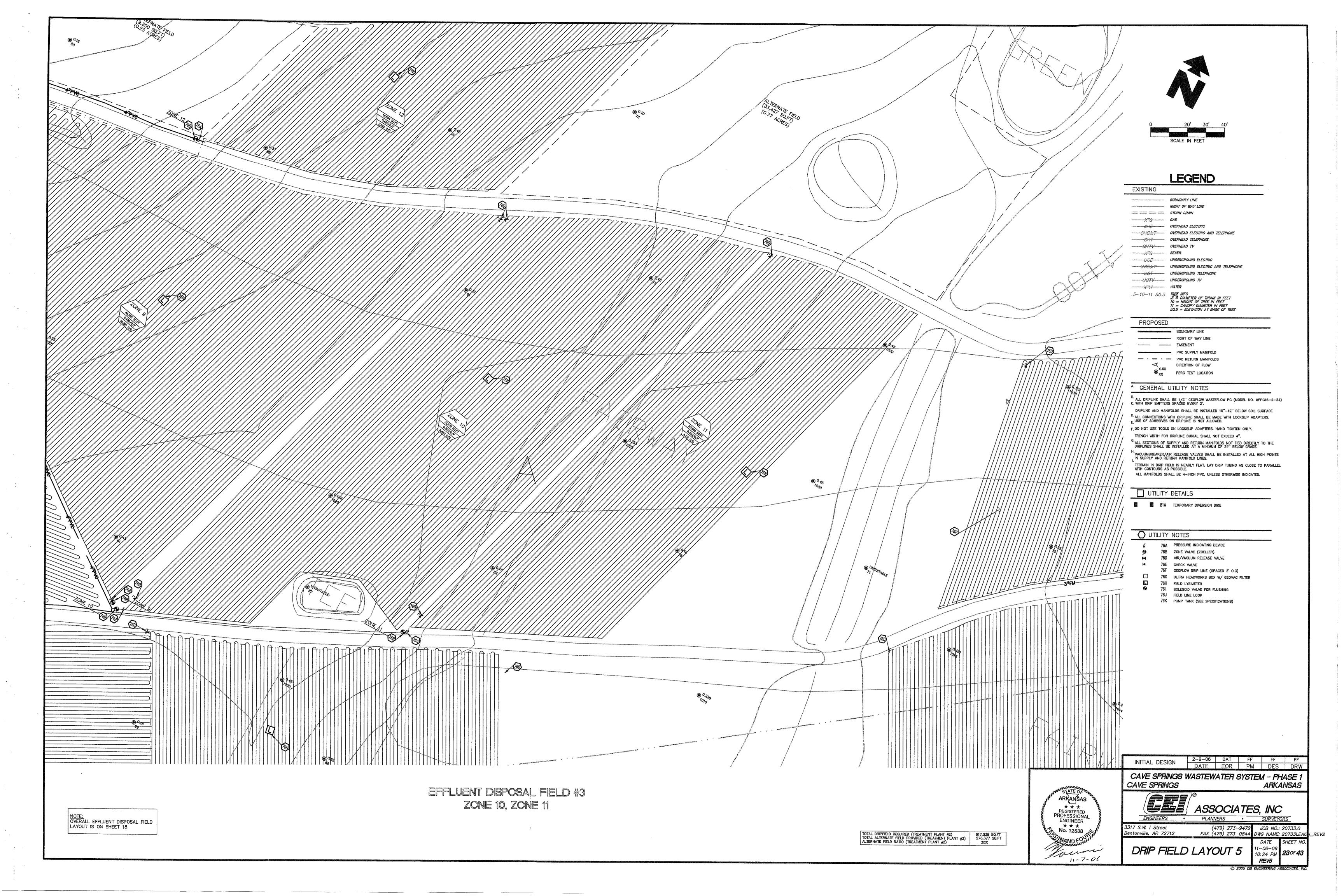
DRIP FIELD LAYOUT 2 11--06--06 10:24 PM **20**0F **43 FEV5** 

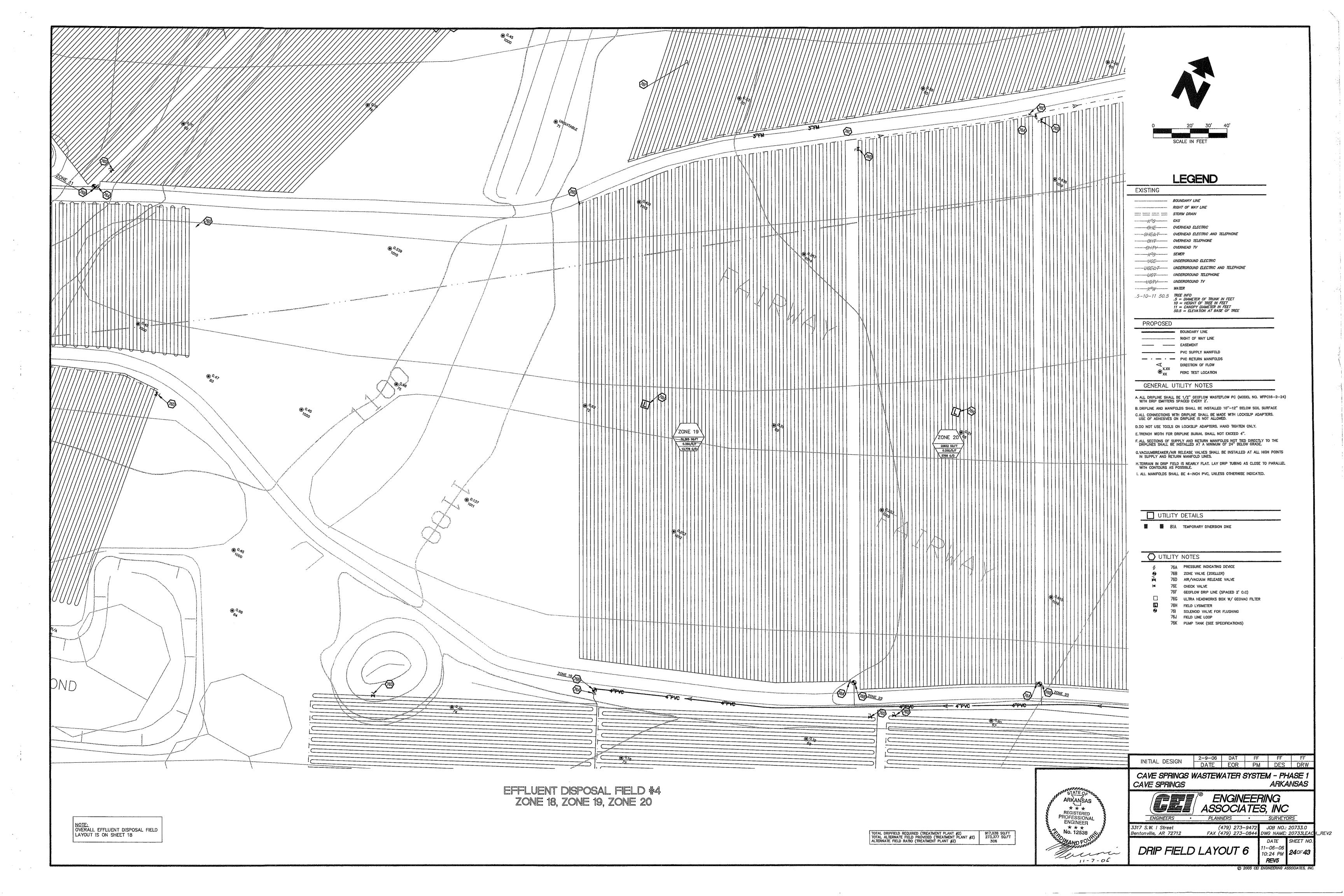
ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 12538 Tour i 11-7-06

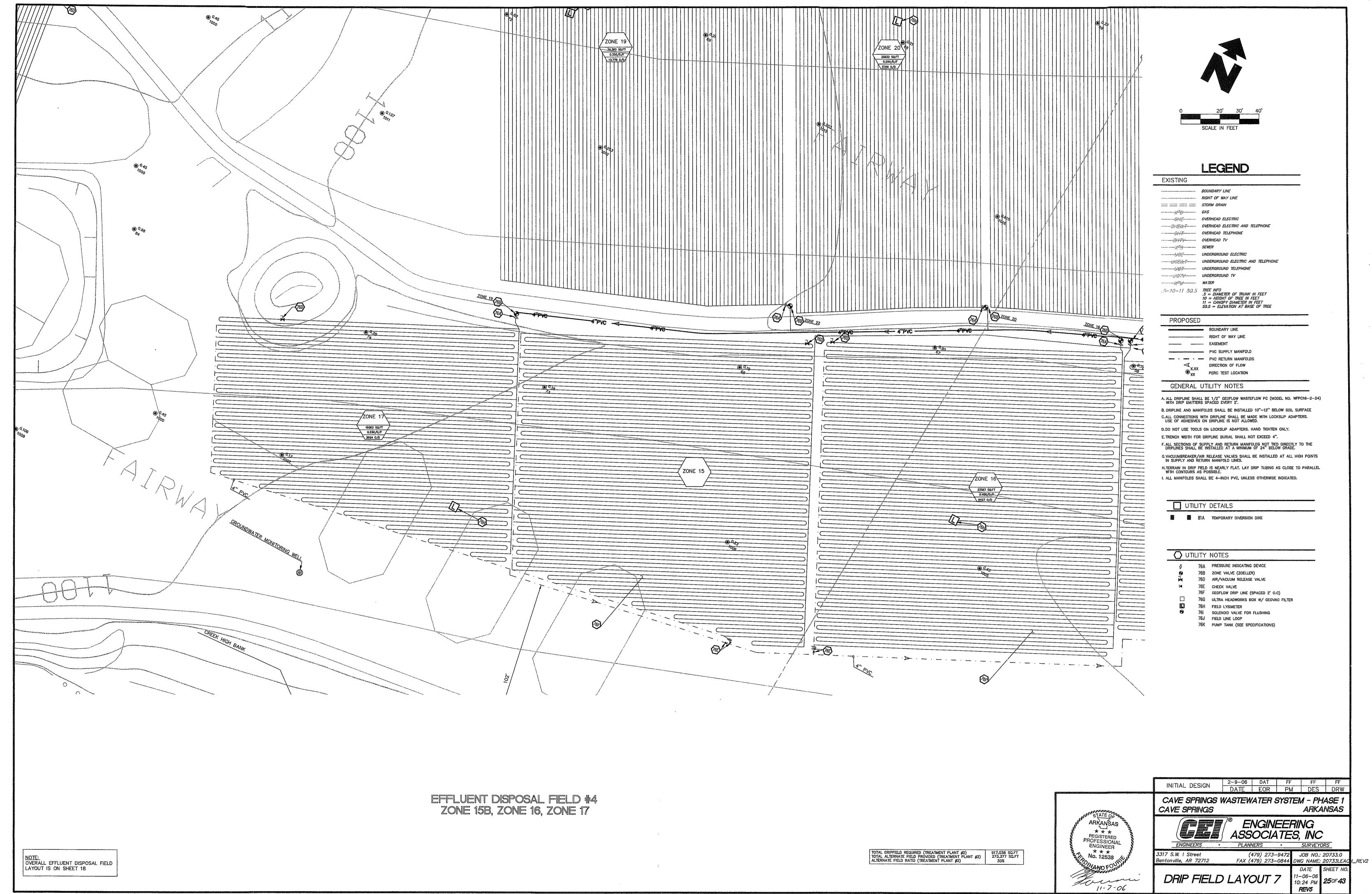
TOTAL DRIPFIELD REQUIRED (TREATMENT PLANT #2)
TOTAL ALTERNATE FIELD PROVIDED (TREATMENT PLANT #2)
ALTERNATE FIELD RATIO (TREATMENT PLANT #2)











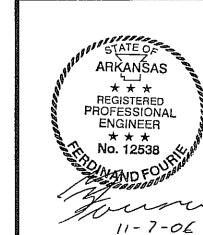
© 2005 CEI ENGINEERING ASSOCIATES, INC.



EFFLUENT DISPOSAL FIELD #4 ZONE 14, ZONE 15A

NOTE: OVERALL EFFLUENT DISPOSAL FIELD LAYOUT IS ON SHEET 18

TOTAL DRIPFIELD REQUIRED (TREATMENT PLANT #2)
TOTAL ALTERNATE FIELD PROVIDED (TREATMENT PLANT #2)
ALTERNATE FIELD RATIO (TREATMENT PLANT #2)



CAVE SPRINGS WASTEWATER SYSTEM - PHASE 1 CAVE SPRINGS

ARKANSAS

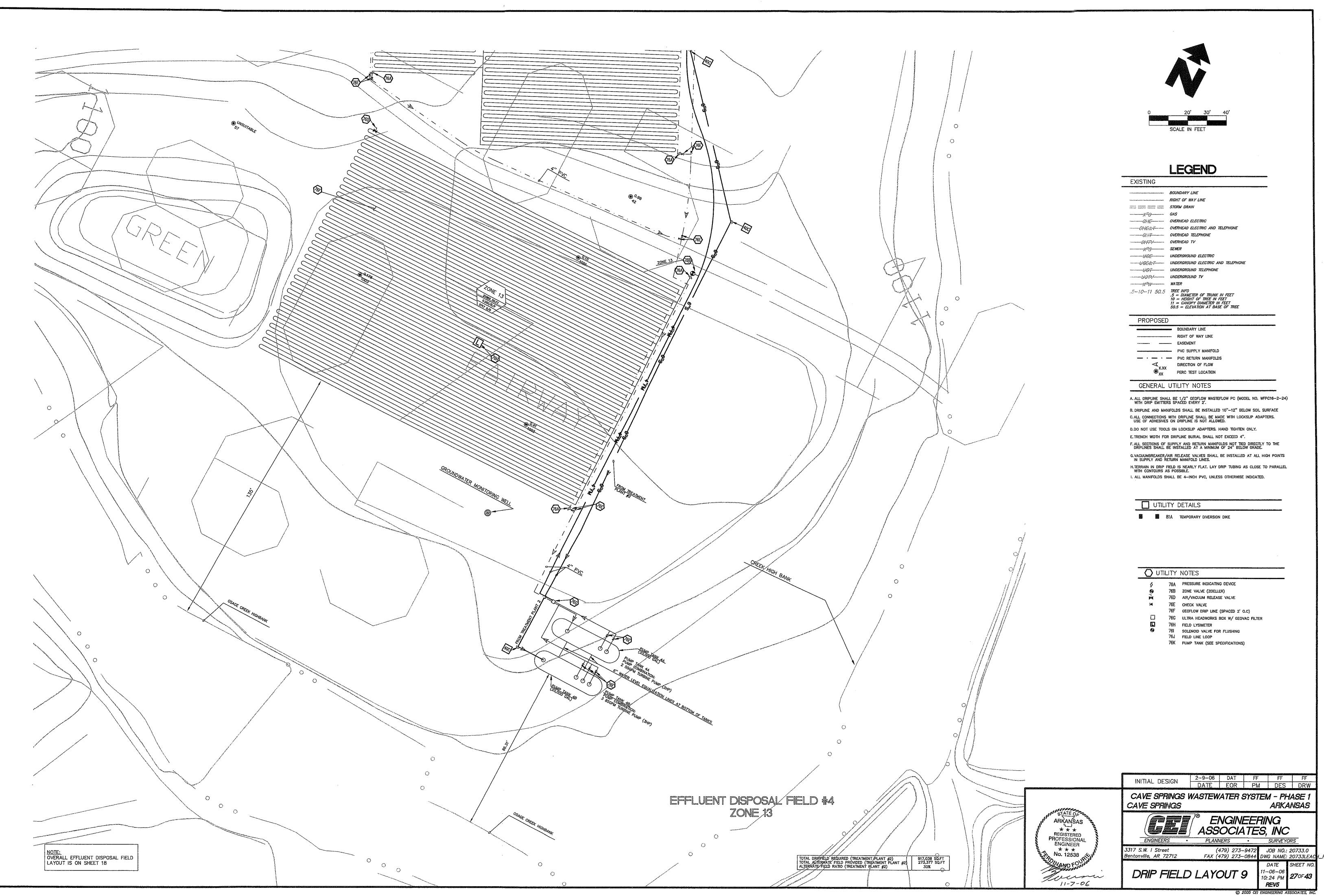
[®] ENGINEERING ASSOCIATES, INC PLANNERS • SURVEYORS

Bentonville, AR 72712

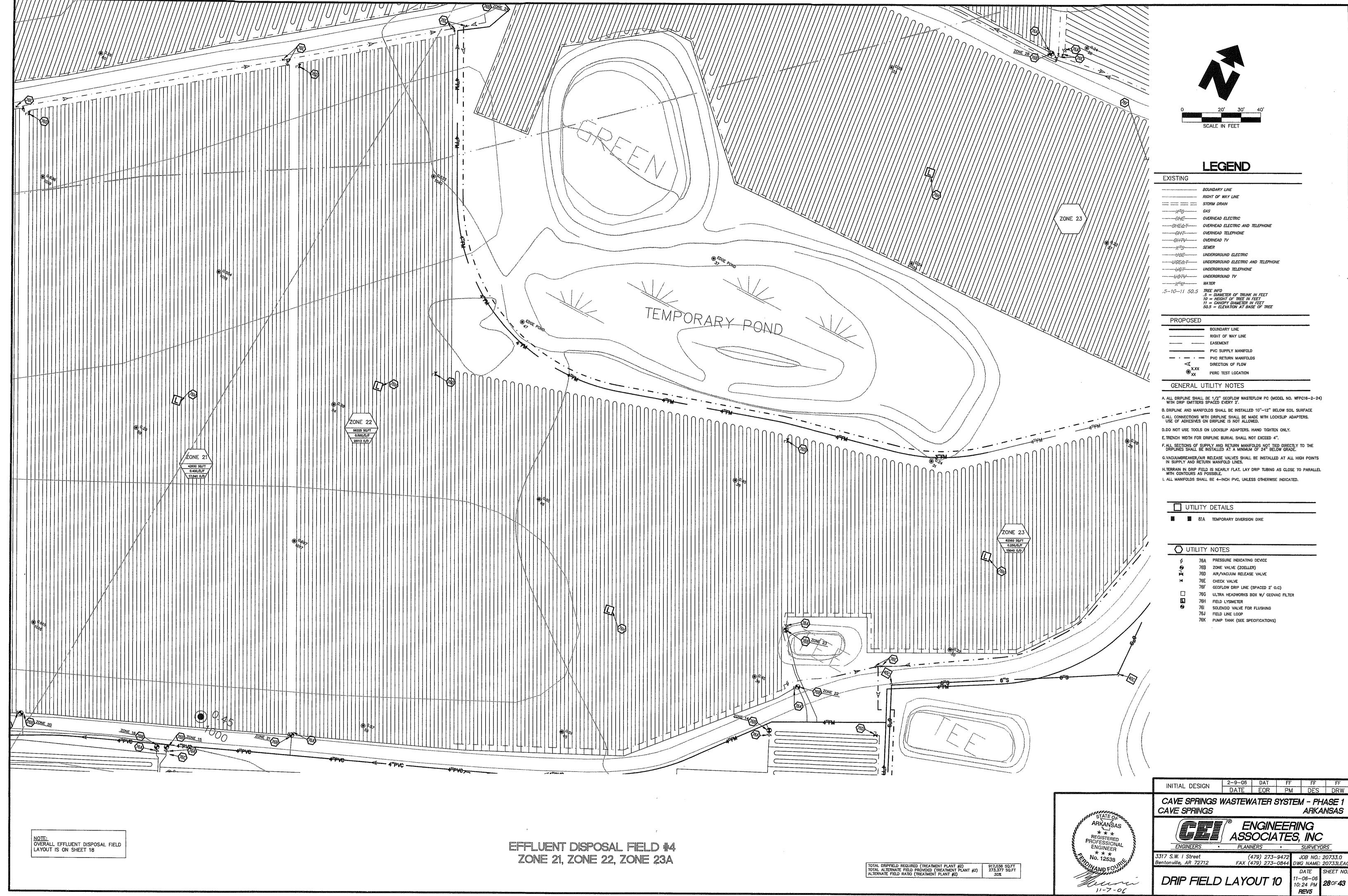
(479) 273—9472 | JOB NO.: 20733.0 FAX (479) 273—0844 DWG NAME: 20733LEAC1_REV2

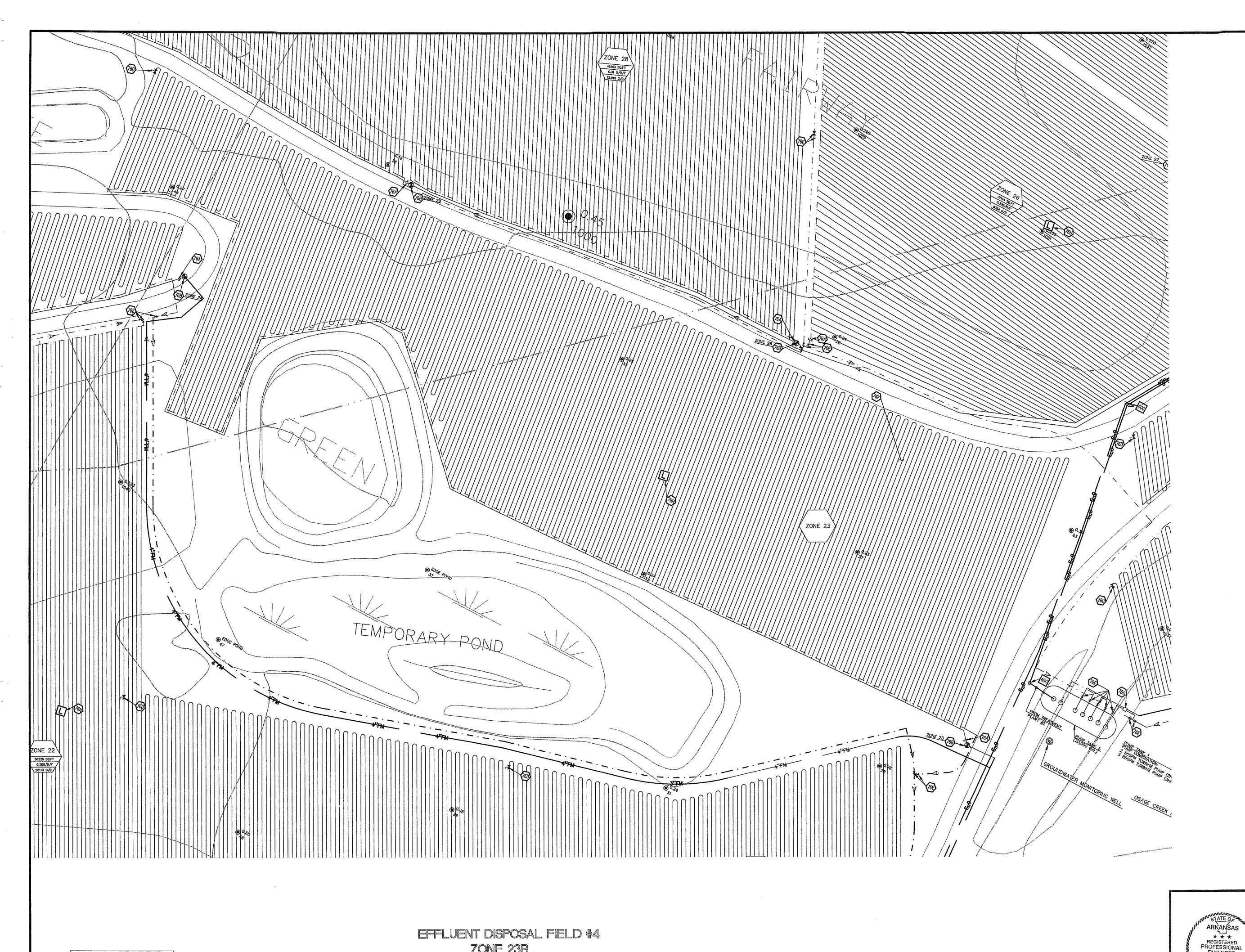
DRIP FIELD LAYOUT 8

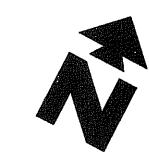
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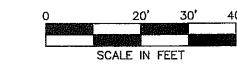


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····	RIGHT OF WAY LINE
	STORM DRAIN
	GAS
	OVERHEAD ELECTRIC
	OVERHEAD ELECTRIC AND TELEPHONE
	OVERHEAD TELEPHONE
	OVERHEAD TV
<u></u>	SEWER
	UNDERGROUND ELECTRIC
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	UNDERGROUND TELEPHONE
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	BOUNDARY LINE
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	EASEMENT
	PVC SUPPLY MANIFOLD
	PVC RETURN MANIFOLDS
⋖,,,,	DIRECTION OF FLOW
⊚ ^{x.xx}	PERC TEST LOCATION

#### GENERAL UTILITY NOTES

B. DRIPLINE AND MANIFOLDS SHALL BE INSTALLED 10"-12" BELOW SOIL SURFACE C.ALL CONNECTIONS WITH DRIPLINE SHALL BE MADE WITH LOCKSLIP ADAPTERS. USE OF ADHESIVES ON DRIPLINE IS NOT ALLOWED.

D.DO NOT USE TOOLS ON LOCKSLIP ADAPTERS. HAND TIGHTEN ONLY. E. TRENCH WIDTH FOR DRIPLINE BURIAL SHALL NOT EXCEED 4". F.ALL SECTIONS OF SUPPLY AND RETURN MANIFOLDS NOT TIED DIRECTLY TO THE DRIPLINES SHALL BE INSTALLED AT A MINIMUM OF 24" BELOW GRADE.

H.TERRAIN IN DRIP FIELD IS NEARLY FLAT. LAY DRIP TUBING AS CLOSE TO PARALLEL WITH CONTOURS AS POSSIBLE. 1. ALL MANIFOLDS SHALL BE 4-INCH PVC, UNLESS OTHERWISE INDICATED.

## UTILITY DETAILS

81A TEMPORARY DIVERSION DIKE

## UTILITY NOTES

δ	76A	PRESSURE	INDICATING	C

76B ZONE VALVE (ZOELLER)

76H FIELD LYSIMETER

76 SOLENOID VALVE FOR FLUSHING 76J FIELD LINE LOOP

76K PUMP TANK (SEE SPECIFICATIONS)

ENGINEER

* * *

 2-9-06
 DAT
 FF
 FF
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 DATE
 EOR
 PM
 DES
 DRW

CAVE SPRINGS WASTEWATER SYSTEM - PHASE 1 ARKANSAS CAVE SPRINGS

^{7®} ENGINEERING ASSOCIATES, INC

3317 S.W. | Street entonville, AR 72712

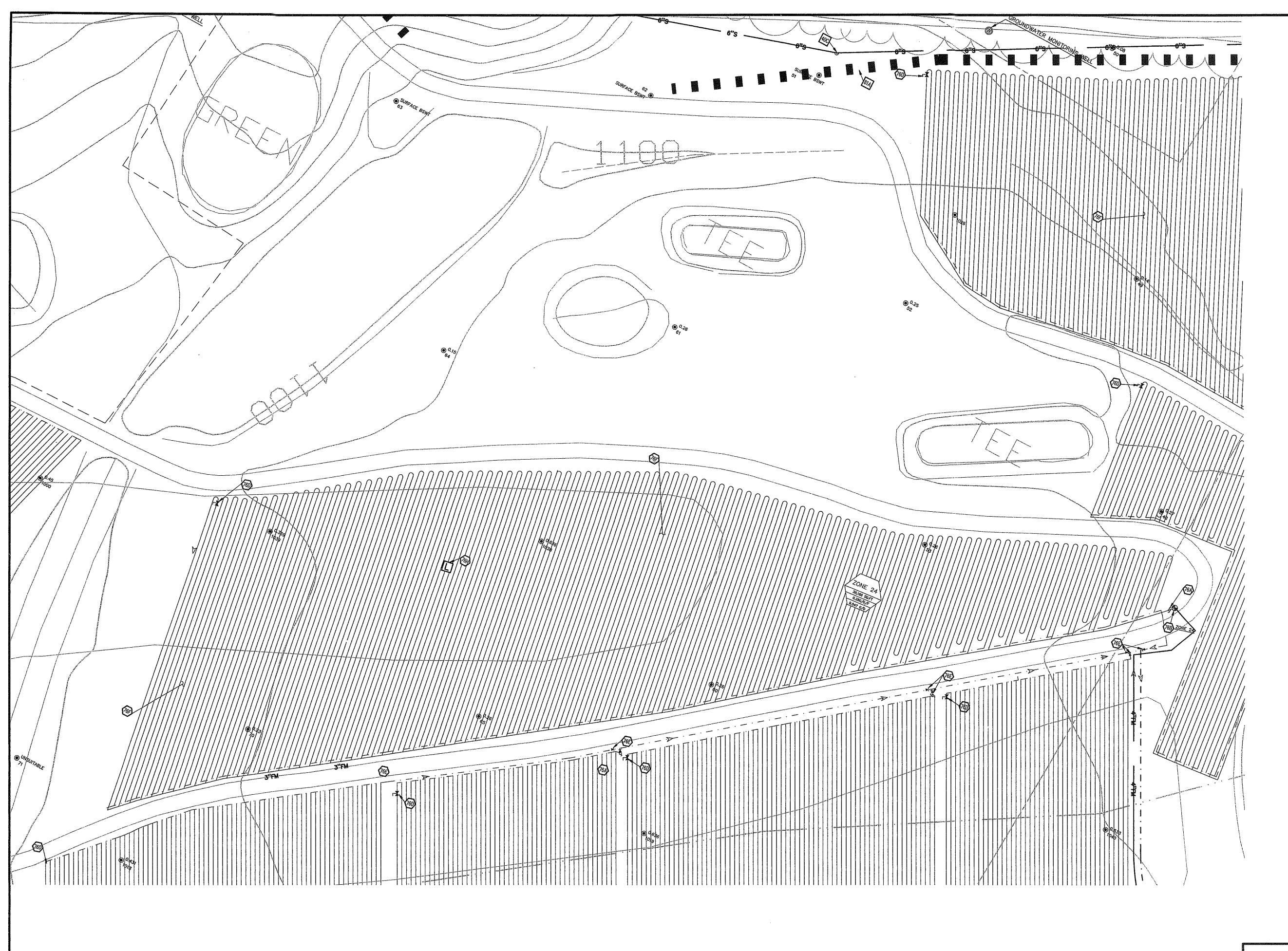
(479) 273-9472 JOB NO.: 20733.0 FAX (479) 273-0844 DWG NAME: 20733LEAC

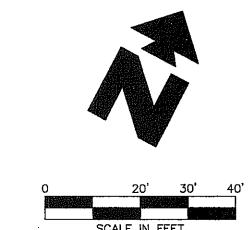
DRIP FIELD LAYOUT 11

11-06-06 10:24 PM **29**0F**43** REV5

EFFLUENT DISPOSAL FIELD #4

ZONE 23B





EXISTING	
1,000000	BOUNDARY LINE
	RIGHT OF WAY LINE
the same and an address to the same a	STORM DRAIN
<del></del>	GAS
	OVERHEAD ELECTRIC
	OVERHEAD ELECTRIC AND TELEPHONE
	OVERHEAD TELEPHONE
<del>0//T/</del>	OVERHEAD TV
<del></del>	SEWER
	UNDERGROUND ELECTRIC
<del>L'6Edr7</del>	UNDERGROUND ELECTRIC AND TELEPHONE
	UNDERGROUND TELEPHONE
	UNDERGROUND TV
	WATER
.5-10-11 50.5	TREE INFO .5 = DIAMETER OF TRUNK IN FEET 10 = HEIGHT OF TREE IN FEET 11 = CANOPY DIAMETER IN FEET 50.5 = ELEVATION AT BASE OF TREE

	BOUNDARY LINE
	RIGHT OF WAY LINE
	EASEMENT
	PVC SUPPLY MANIFOLD
	PVC RETURN MANIFOLDS
⋖,,,,	DIRECTION OF FLOW
⊚ _{XX} X	PERC TEST LOCATION

#### GENERAL UTILITY NOTES

C.ALL CONNECTIONS WITH DRIPLINE SHALL BE MADE WITH LOCKSLIP ADAPTERS. USE OF ADHESIVES ON DRIPLINE IS NOT ALLOWED.

G.VACUUMBREAKER/AIR RELEASE VALVES SHALL BE INSTALLED AT ALL HIGH POINTS IN SUPPLY AND RETURN MANIFOLD LINES. H.TERRAIN IN DRIP FIELD IS NEARLY FLAT. LAY DRIP TUBING AS CLOSE TO PARALLEL WITH CONTOURS AS POSSIBLE.

I. ALL MANIFOLDS SHALL BE 4-INCH PVC, UNLESS OTHERWISE INDICATED.

UTILITY DETAILS

81A TEMPORARY DIVERSION DIKE

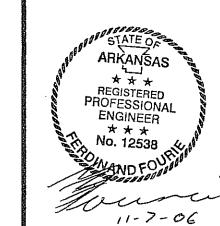
# UTILITY NOTES

<u> </u>		
<b>δ</b>	76A	PRESSURE INDICATING D
€	76B	ZONE VALVE (ZOELLER)

76K PUMP TANK (SEE SPECIFICATIONS)

761 SOLENOID VALVE FOR FLUSHING 76J FIELD LINE LOOP

EFFLUENT DISPOSAL FIELD #4 ZONE 24



CAVE SPRINGS WASTEWATER SYSTEM - PHASE 1

CAVE SPRINGS ARKANSAS

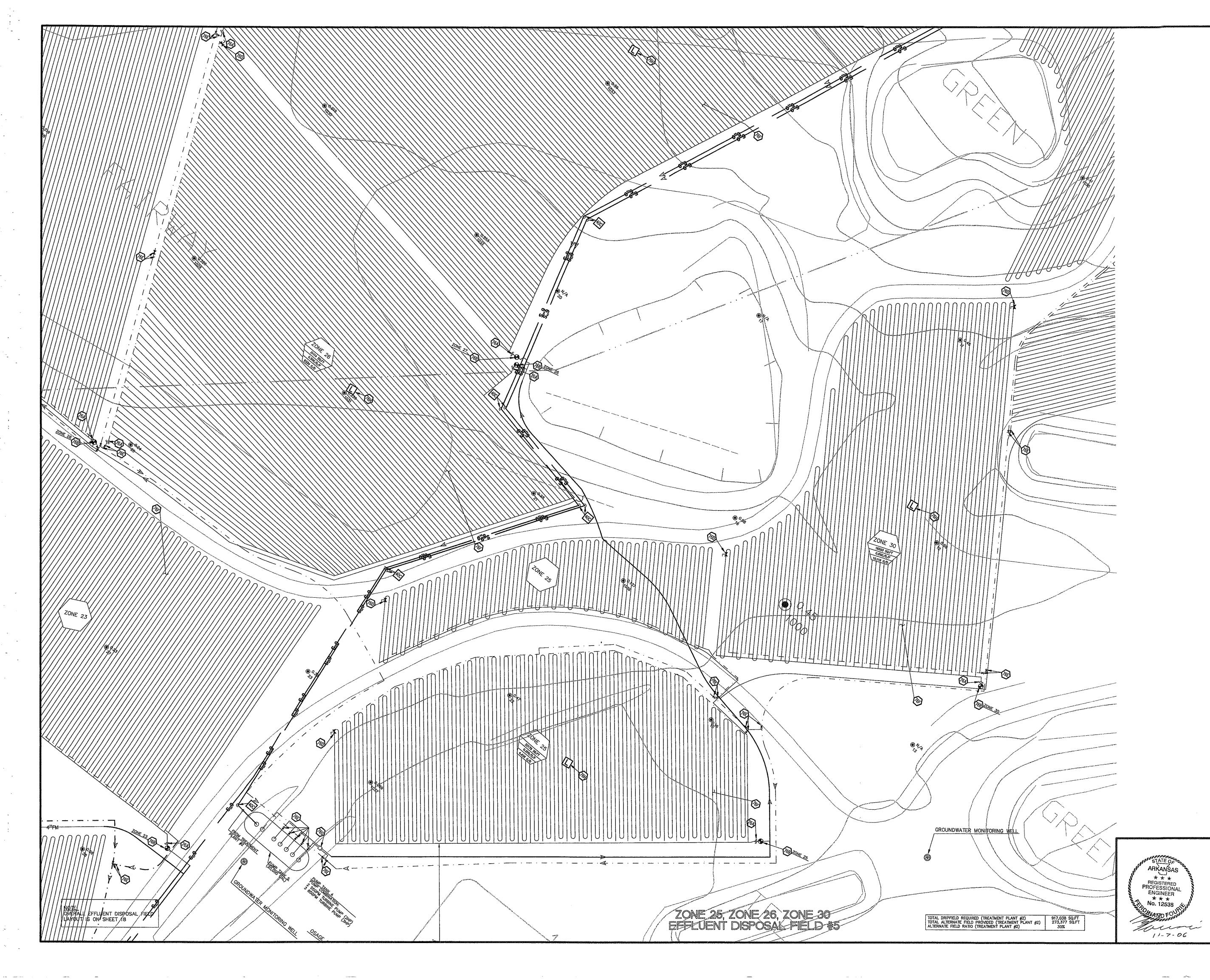
3317 S.W. I Street Bentonville, AR 72712 (479) 273–9472 JOB NO.: 20733.0 FAX (479) 273–0844 DWG NAME: 20733LEAC1_REV2

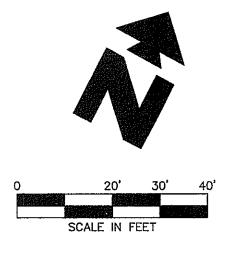
DRIP FIELD LAYOUT 12

11-06-06 10:24 PM **30**0F**43** REV5

TOTAL DRIPFIELD REQUIRED (TREATMENT PLANT #2) 917,038 SQ.FT
TOTAL ALTERNATE FIELD PROVIDED (TREATMENT PLANT #2) 273,377 SQ.FT
ALTERNATE FIELD RATIO (TREATMENT PLANT #2) 30%

NOTE: OVERALL EFFLUENT DISPOSAL FIELD LAYOUT IS ON SHEET 18





EXISTING	
	BOUNDARY LINE
	RIGHT OF WAY LINE
	STORM DRAIN
<u>\~~</u> ;	GAS
	OVERHEAD ELECTRIC
	OVERHEAD ELECTRIC AND TELEPHONE
	OVERHEAD TELEPHONE
	OVERHEAD TV
<del></del> -	SEWER
	UNDERGROUND ELECTRIC
<i>UGE</i> 12	UNDERGROUND ELECTRIC AND TELEPHONE
	UNDERGROUND TELEPHONE
<del></del>	UNDERGROUND TV
<u>}/"</u> W	WATER
.5-10-11 50.5	TREE INFO .5 = DIAMETER OF TRUNK IN FEET 10 = HEIGHT OF TREE IN FEET 11 = CANOPY DIAMETER IN FEET 50.5 = ELEVATION AT BASE OF TREE

DOORDANT LINE
 RIGHT OF WAY LINE
 EASEMENT
 PVC SUPPLY MANIFOLD
 PVC RETURN MANIFOLDS
DIRECTION OF FLOW

®XX PERC TEST LOCATION

#### GENERAL UTILITY NOTES

B. DRIPLINE AND MANIFOLDS SHALL BE INSTALLED 10"-12" BELOW SOIL SURFACE C.ALL CONNECTIONS WITH DRIPLINE SHALL BE MADE WITH LOCKSLIP ADAPTERS. USE OF ADHESIVES ON DRIPLINE IS NOT ALLOWED.

D.DO NOT USE TOOLS ON LOCKSLIP ADAPTERS. HAND TIGHTEN ONLY.

F. ALL SECTIONS OF SUPPLY AND RETURN MANIFOLDS NOT TIED DIRECTLY TO THE DRIPLINES SHALL BE INSTALLED AT A MINIMUM OF  $24^{\prime\prime}$  BELOW GRADE. G.VACUUMBREAKER/AIR RELEASE VALVES SHALL BE INSTALLED AT ALL HIGH POINTS IN SUPPLY AND RETURN MANIFOLD LINES.

H.TERRAIN IN DRIP FIELD IS NEARLY FLAT. LAY DRIP TUBING AS CLOSE TO PARALLE WITH CONTOURS AS POSSIBLE. 1. ALL MANIFOLDS SHALL BE 4-INCH PVC, UNLESS OTHERWISE INDICATED.

#### UTILITY DETAILS

81A TEMPORARY DIVERSION DIKE

#### UTILITY NOTES

		<del></del>
	76A	PRESSURE INDICATING DEVICE
<del>)</del>	76B	ZONE VALVE (ZOELLER)

76E CHECK VALVE 76F GEOFLOW DRIP LINE (SPACED 2' O.C)

76G ULTRA HEADWORKS BOX W/ GEOVAC FILTER

76H FIELD LYSIMETER

76I SOLENOID VALVE FOR FLUSHING 76J FIELD LINE LOOP

76K PUMP TANK (SEE SPECIFICATIONS)

CAVE SPRINGS WASTEWATER SYSTEM - PHASE 1 CAVE SPRINGS



ARKANSAS

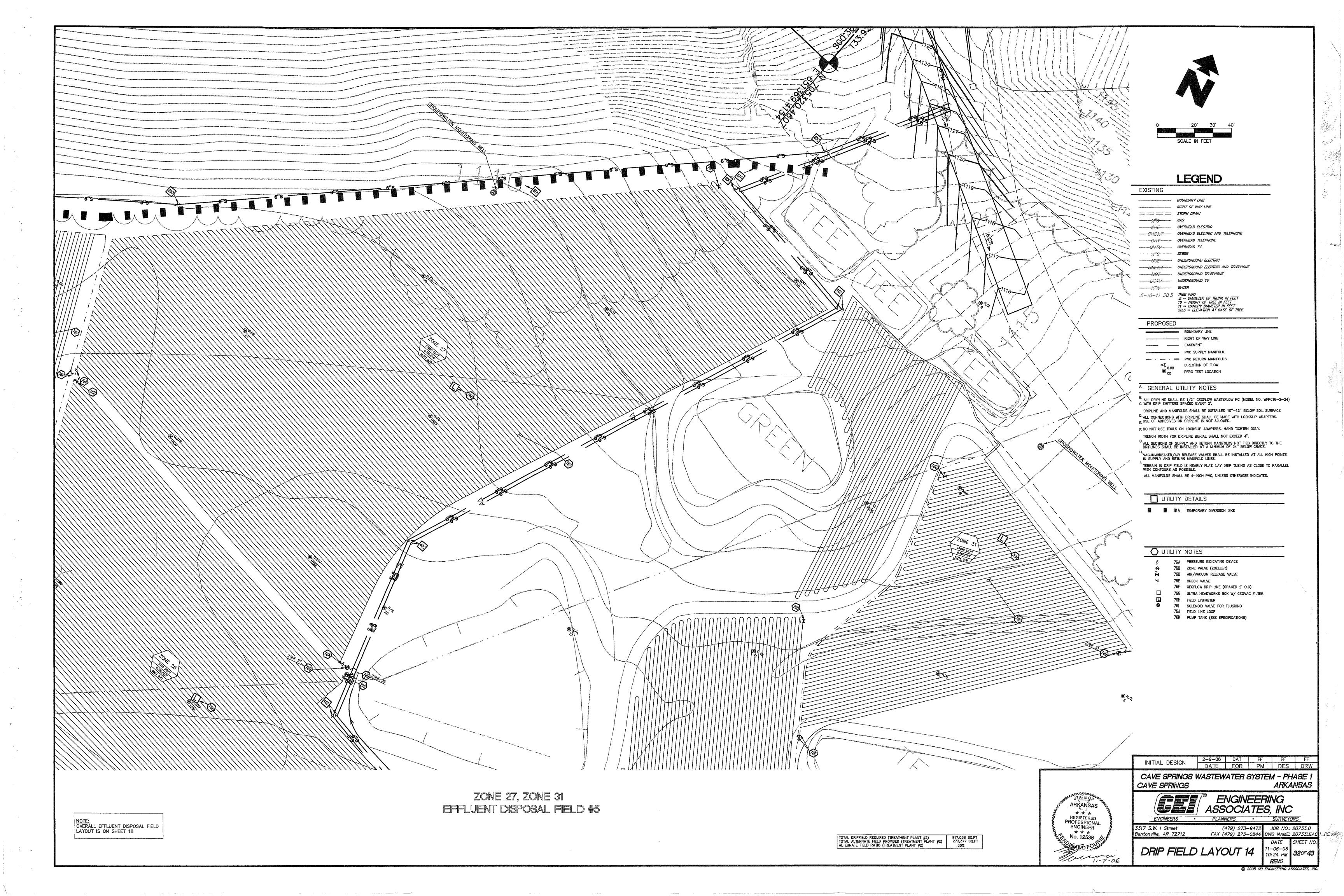
[®] ENGINEERING ASSOCIATES, INC 3317 S.W. I Street Bentonville, AR 72712 (479) 273-9472 FAX (479) 273-0844 JOB NO.: 20733.0

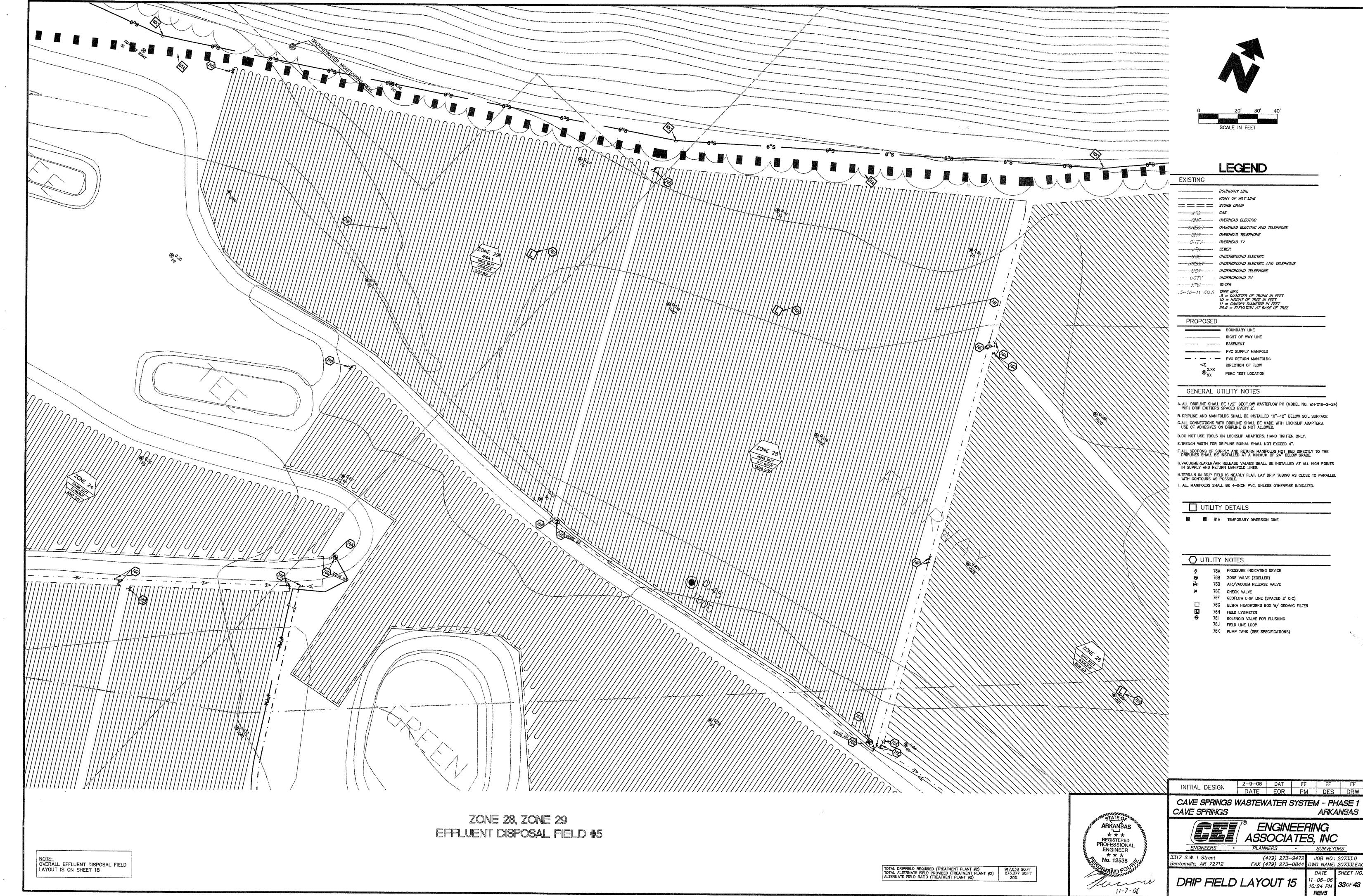
DRIP FIELD LAYOUT 13

11-06-06 10:24 PM 31 OF 43 REV5

DWG NAME: 20733LEAG

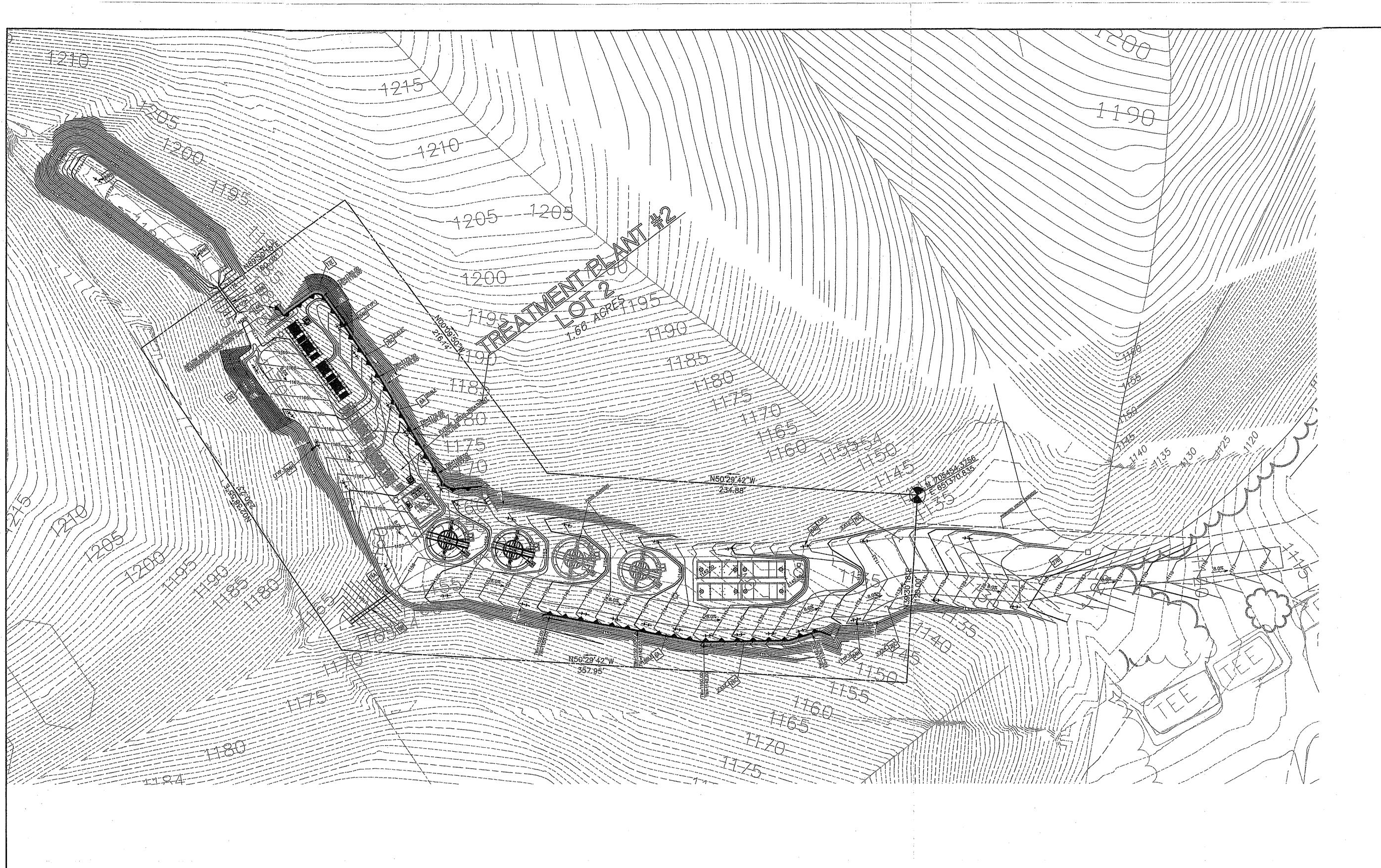
SHEET N

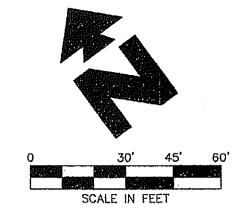




PIEV5

2005 CEI ENGINEERING ASSOCIATES. IN





EXISTING	
Ð	EAST OR ELECTRIC
n	NORTH
o.h	OVERHEAD
5	SOUTH OR SEWER
1	TELEPHONE
ug	UNDERGROUND
-	

BOUNDARY LINE

RIGHT OF WAY LINE

STORM DRAIN

GAS

OHE OVERHEAD ELECTRIC

OHE&T OVERHEAD ELECTRIC AND TELEPHONE
OHT OVERHEAD TELEPHONE
OVERHEAD TV
SEWER

--- UGE --- UNDERGROUND ELECTRIC
--- UGE&T --- UNDERGROUND TELEPHONE
--- UGTY --- UNDERGROUND TV

.5-10-11 50.5

TREE INFO
.5 = DIAMETER OF TRUNK IN FEET
10 = HEIGHT OF TREE IN FEET
11 = CANOPY DIAMETER IN FEET
50.5 = ELEVATION AT BASE OF TREE

SOIL BORING LOCATION

#### PROPOSED

RIGHT OF WAY LINE
GRADE BREAK
CONTOUR ELEVATIONS
STORM DRAIN
LIMITS OF PAVING

SPOT ELEVATIONS: TC = TOP OF CURB G = GUTTER

#### GENERAL GRADING NOTES

A. PRIOR TO INSTALLATION OF WATERLINE OR SANITARY SEWER, THE CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL CROSSINGS AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT THE ENGINEER IS NOT NOTIFIED OF DESIGN CONFLICTS.

B. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND 4" OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS (SEE LANDSCAPE PLAN FOR SEED MIX AND PROPER APPLICATION RATE). ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

C. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.

GRADING DETAILS

- 6A SEGMENTAL RETAINING WALL (BY GENERAL CONTRACTOR)

14A CONCRETE SWALE

17D RIP-RAP (GROUTED IN PLACE)

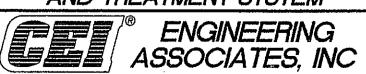
17P MORTABED BIBLARD

17D RIP—RAP (GROUTED IN PLACE)
17P MORTARED RIP—RAP
27B TRENCH DRAIN
76C CONCRETE CHANNEL
84H ROCK DITCH CHECK

ARKANSAS

REGISTERED
PROFESSIONAL
ENGINEER
No.7944

CAVE SPRINGS WASTEWATER TRANSFER
AND TREATMENT SYSTEM



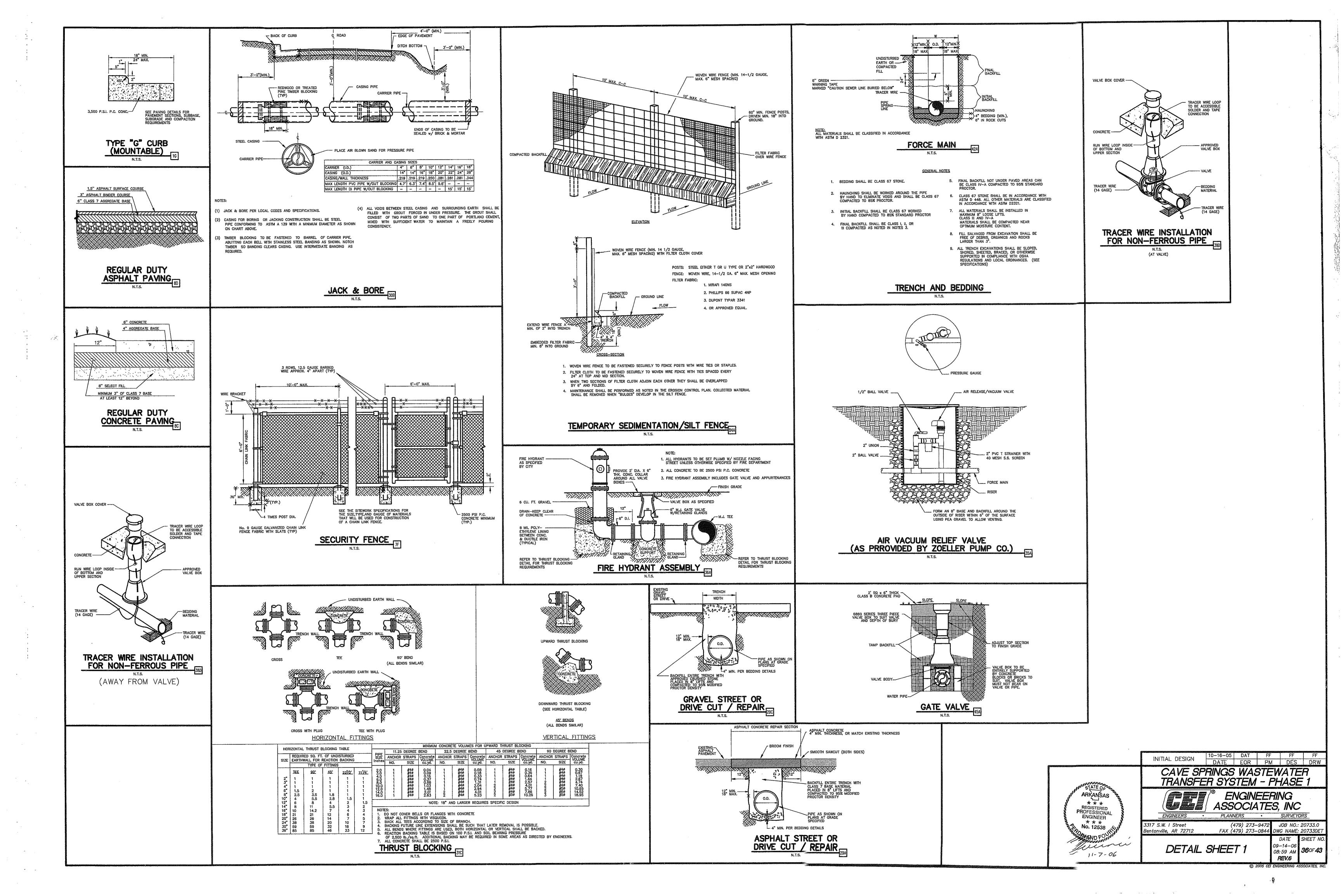
ENGINEERS • PLANNERS • SURVEYORS

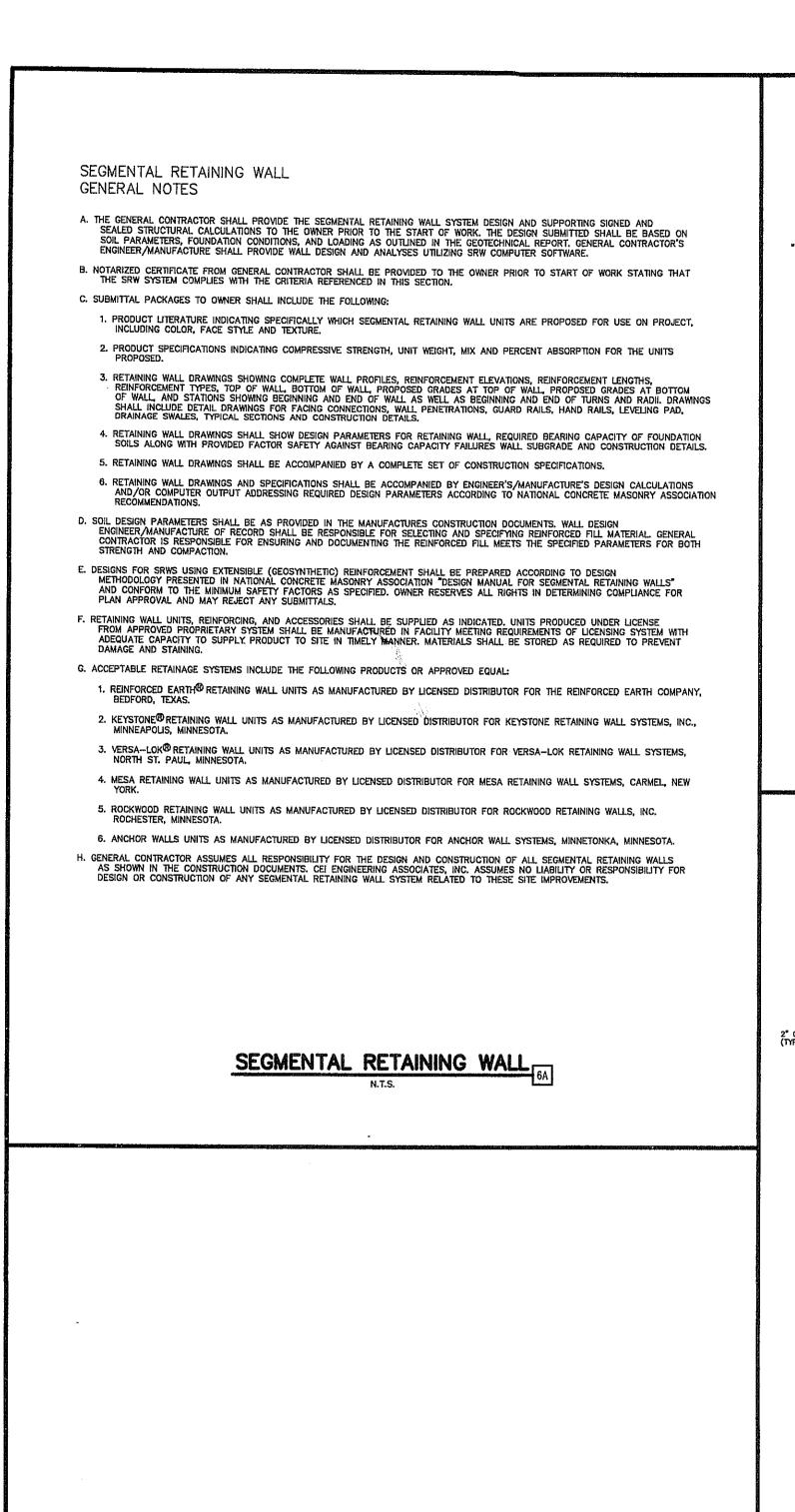
3317 S.W. I Street (479) 273-9472 JOB NO.: 20733.0
Bentonville, AR 72712 FAX (479) 273-0844 DWG NAME: 20733TREATMENTSITE

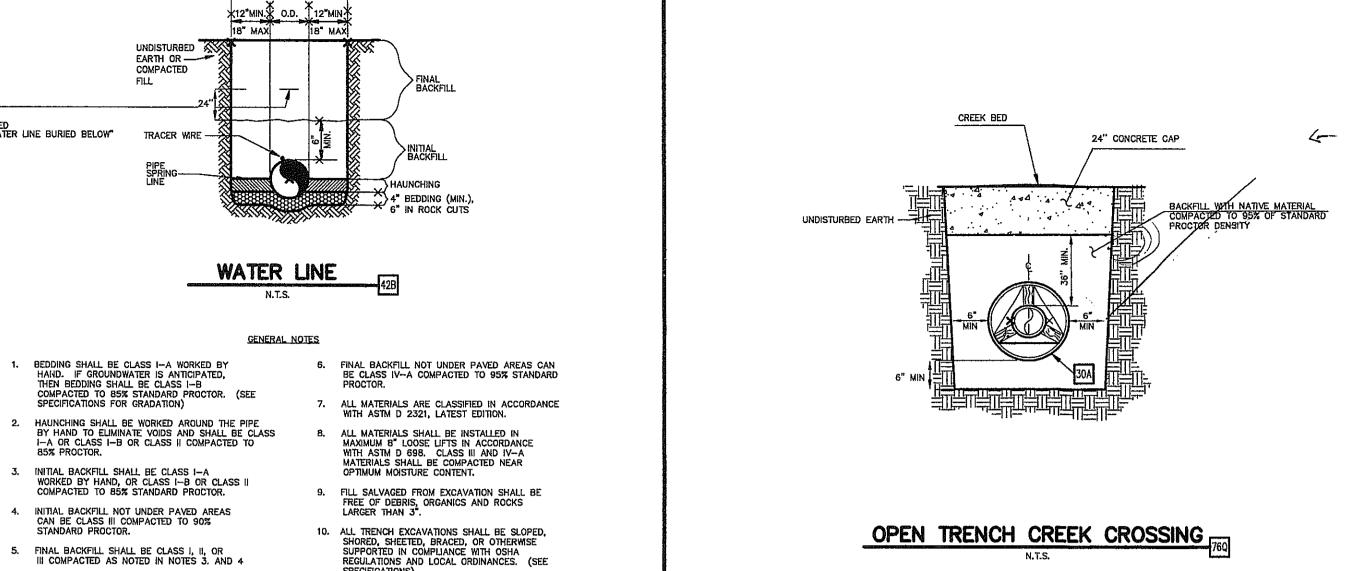
GRADING PLAN
TREATMENT PLANT 2

DATE 08-24-06 3:55 PM REV4 SHEET NO. 350F 43

2005 CEI ENGINEERING ASSOCIATES, INC.

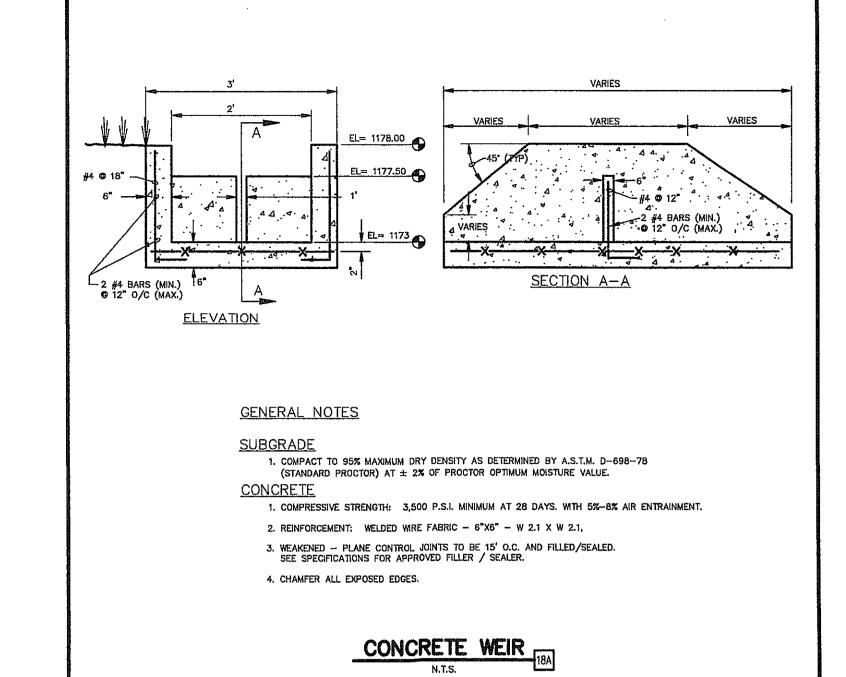


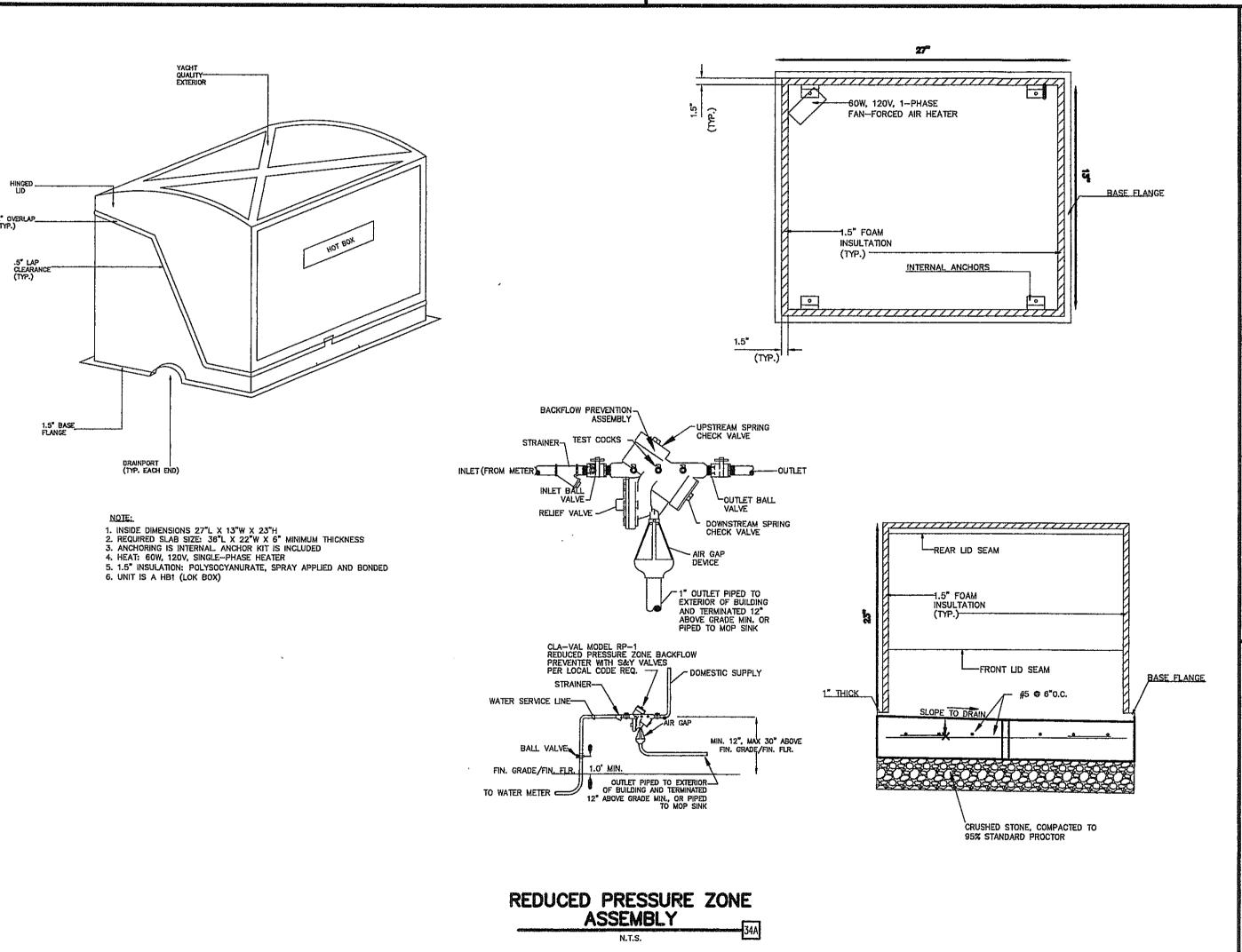


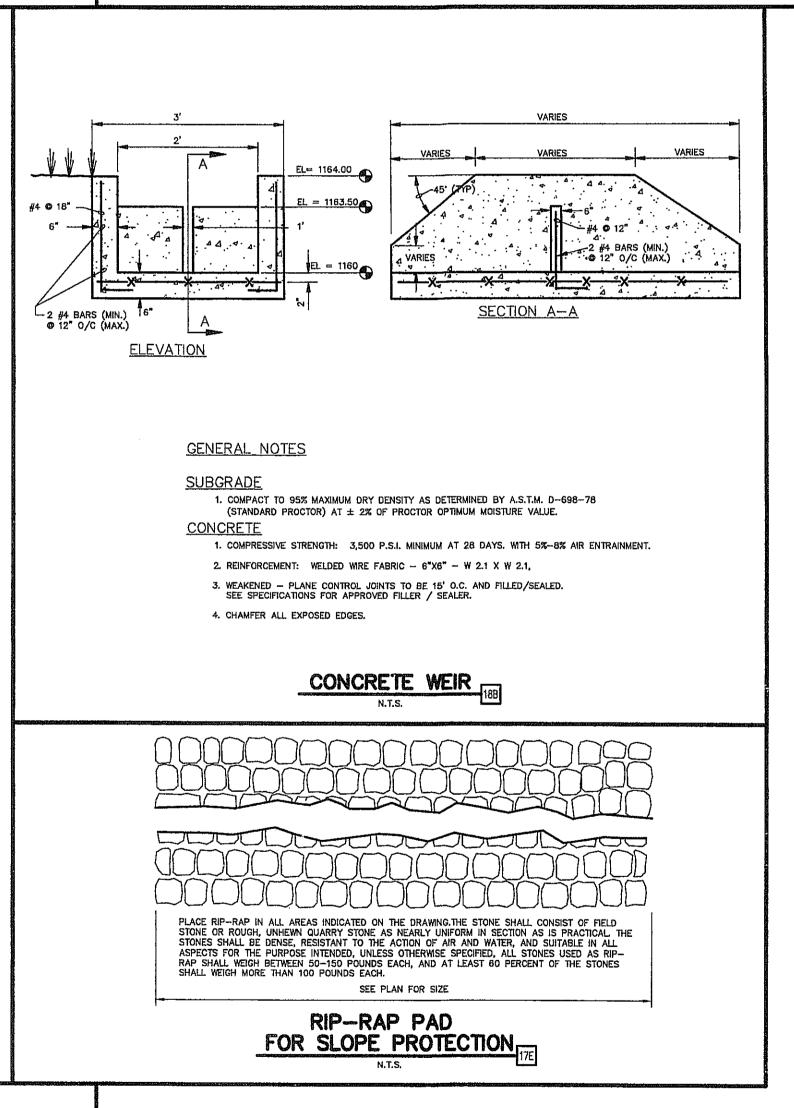


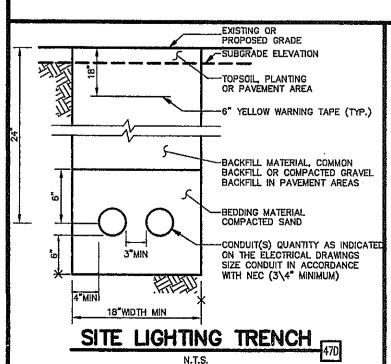
OPEN TRENCH CREEK CROSSING

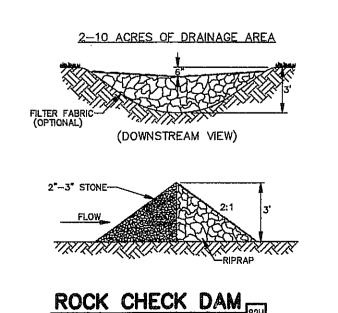
NOTE:
CASING SHALL BE LAID IN OPEN TRENCH, NOT
JACKED AND BORED. FORCE MAIN SHALL
THEN BE INSTALLED IN CASING PER DETAIL
30A.

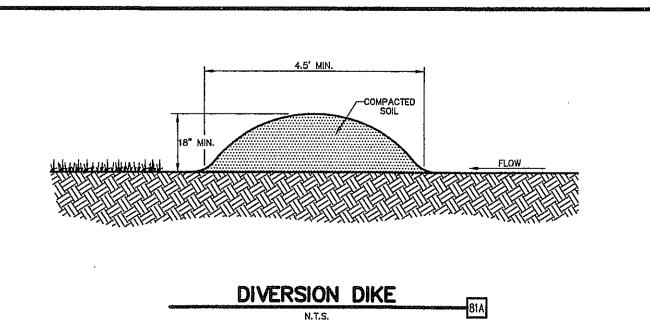










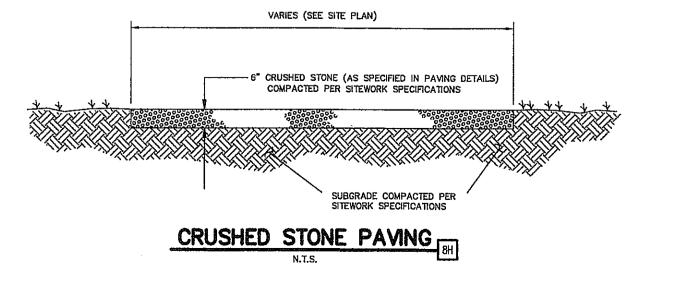


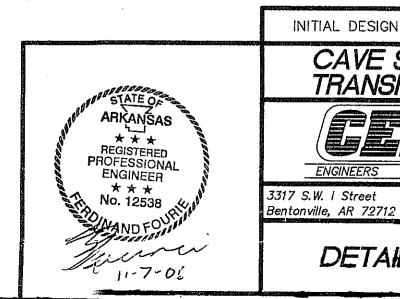
STANDARD PROCTOR.

5. FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3. AND 4

SPECIFICATIONS)

WATER LINE TRENCHING AND BEDDING





CAVE SPRINGS WASTEWATER TRANSFER SYSTEM - PHASE

(479) 273-9472

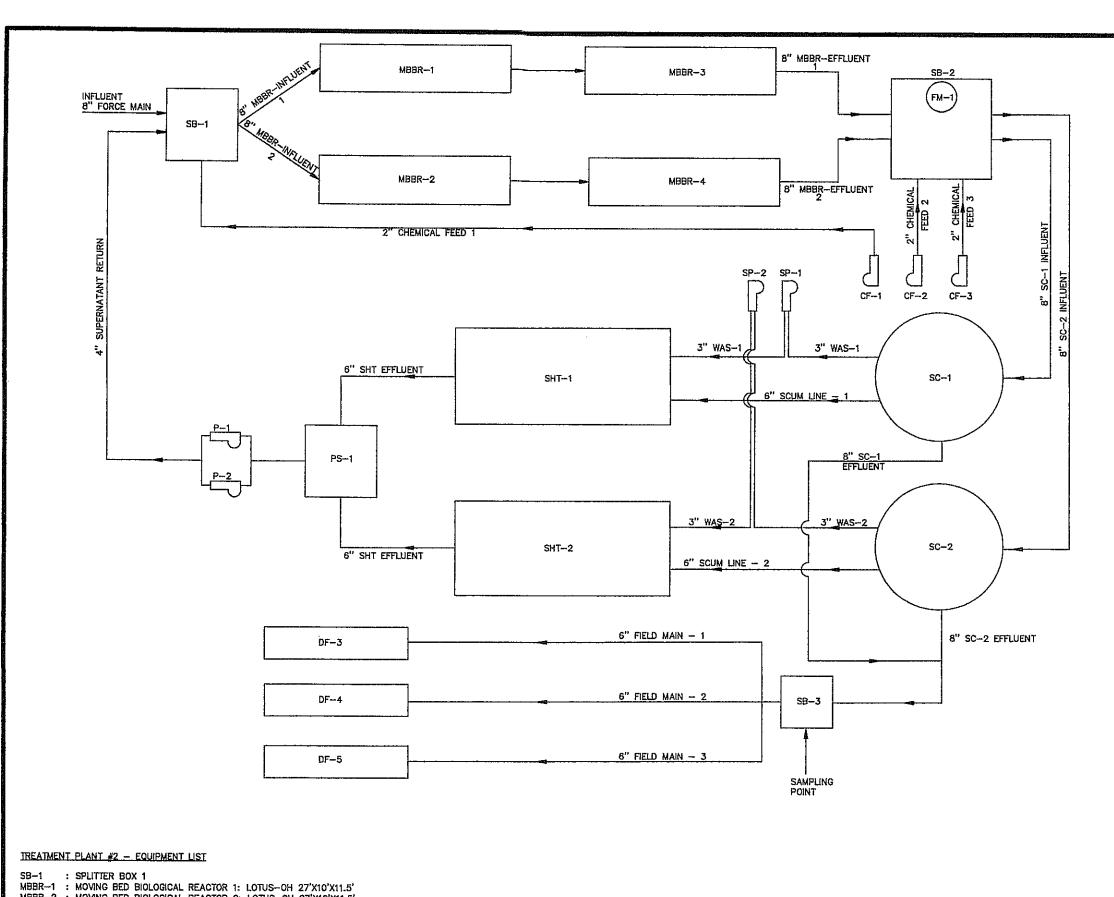
**ENGINEERING** PLANNERS •

DETAIL SHEET 2

FAX (479) 273-0844 DWG NAME: 20733DET *09–14--06* 08:59 AM 370F43

REV.6

JOB NO.: 20733.0



IREATMENT PLANT #2 — EQUIPMENT LIST

SB—1 : SPLITTER BOX 1

MBBR—1 : MOVING BED BIOLOGICAL REACTOR 1: LOTUS—OH 27'X10'X11.5'

MBBR—2 : MOVING BED BIOLOGICAL REACTOR 2: LOTUS—OH 27'X10'X11.5'

MBBR—3 : MOVING BED BIOLOGICAL REACTOR 3: LOTUS—OH 27'X10'X11.5'

MBBR—4 : MOVING BED BIOLOGICAL REACTOR 4: LOTUS—OH 27'X10'X11.5'

SB—2 : SPLITTER BOX 2

CF—1 : CHEMICAL FEED PUMP 1

CF—2 : CHEMICAL FEED PUMP 2

CF—3 : CHEMICAL FEED PUMP 3

SP—1 : SLUDGE PUMP 1

SP—2 : SLUDGE PUMP 2

SC—1 : LAKESIDE 26'X12' SWD DIAMETER SECONDARY CLARIFIER 1

SC—2 : LAKESIDE 26'X12' SWD DIAMETER SECONDARY CLARIFIER 2

SHT—1 : 30,000 GAL SLUDGE HOLDING TANK 1

SHT—2 : 30,000 GAL SLUDGE HOLDING TANK 2

SB—3 : SPLITTER BOX 3

PS—1 : SUPERNATANT SLUDGE PUMPING STATION 1

P—1 : SLUDGE TANK DECANT PUMP 1

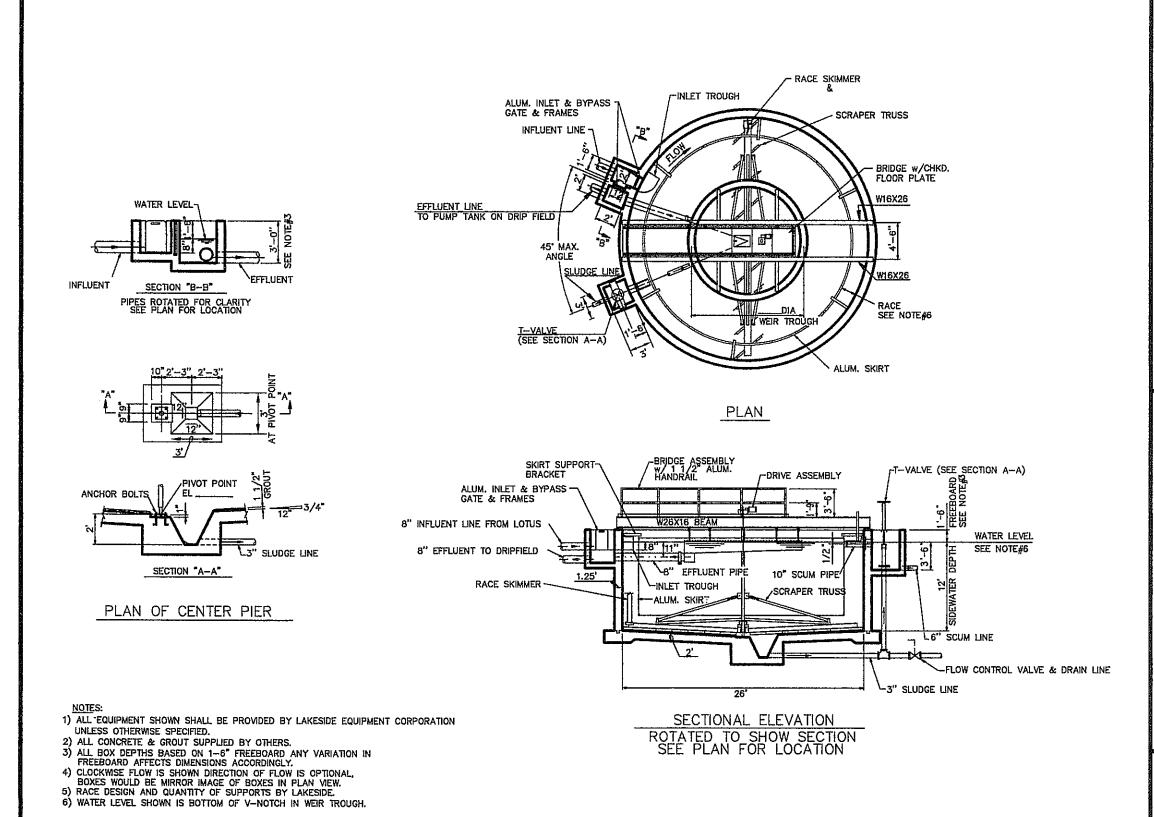
P—2 : SLUDGE TANK DECANT PUMP 2

DF—3 : DRIP DISPOSAL FIELD 3

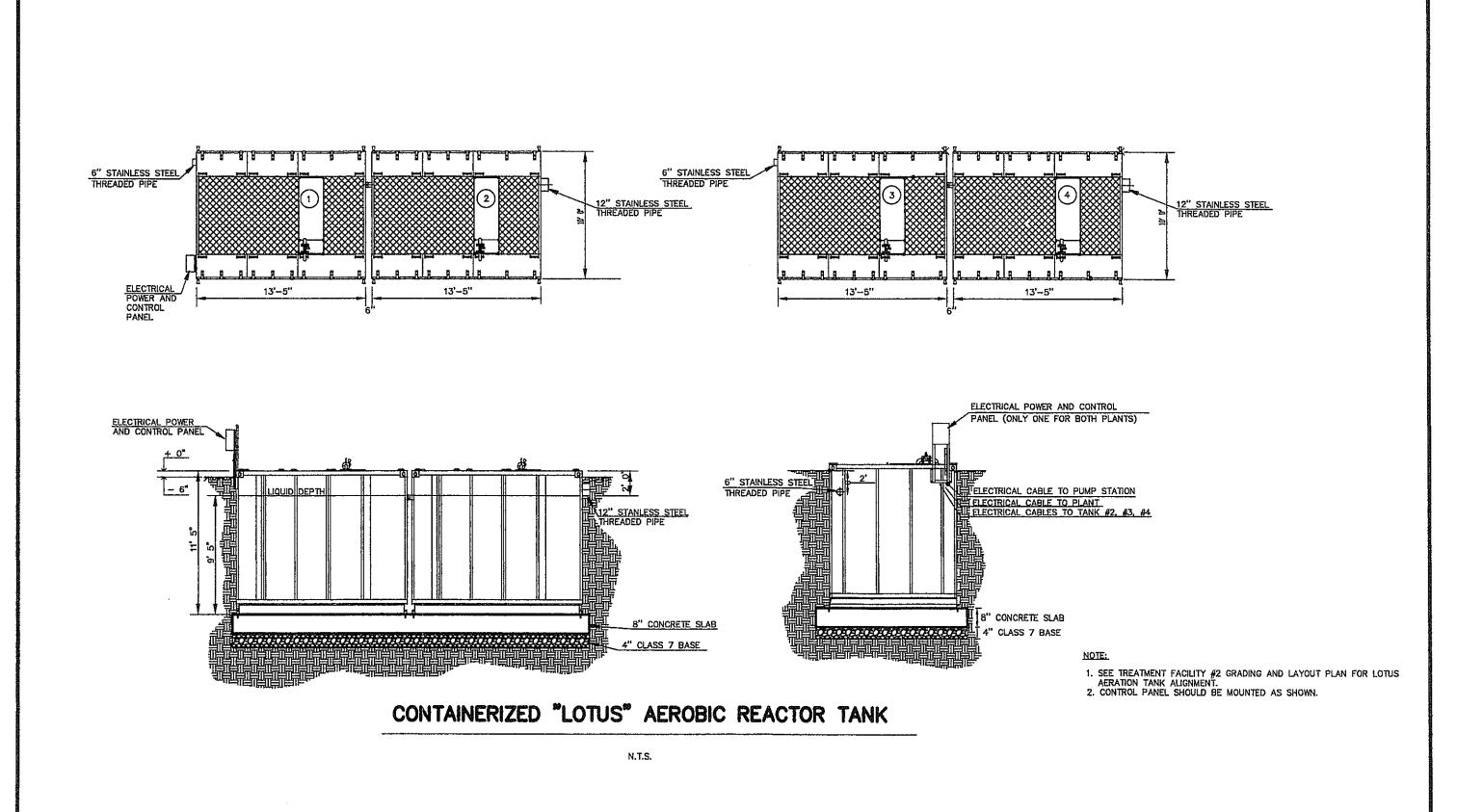
DF—4 : DRIP DISPOSAL FIELD 5

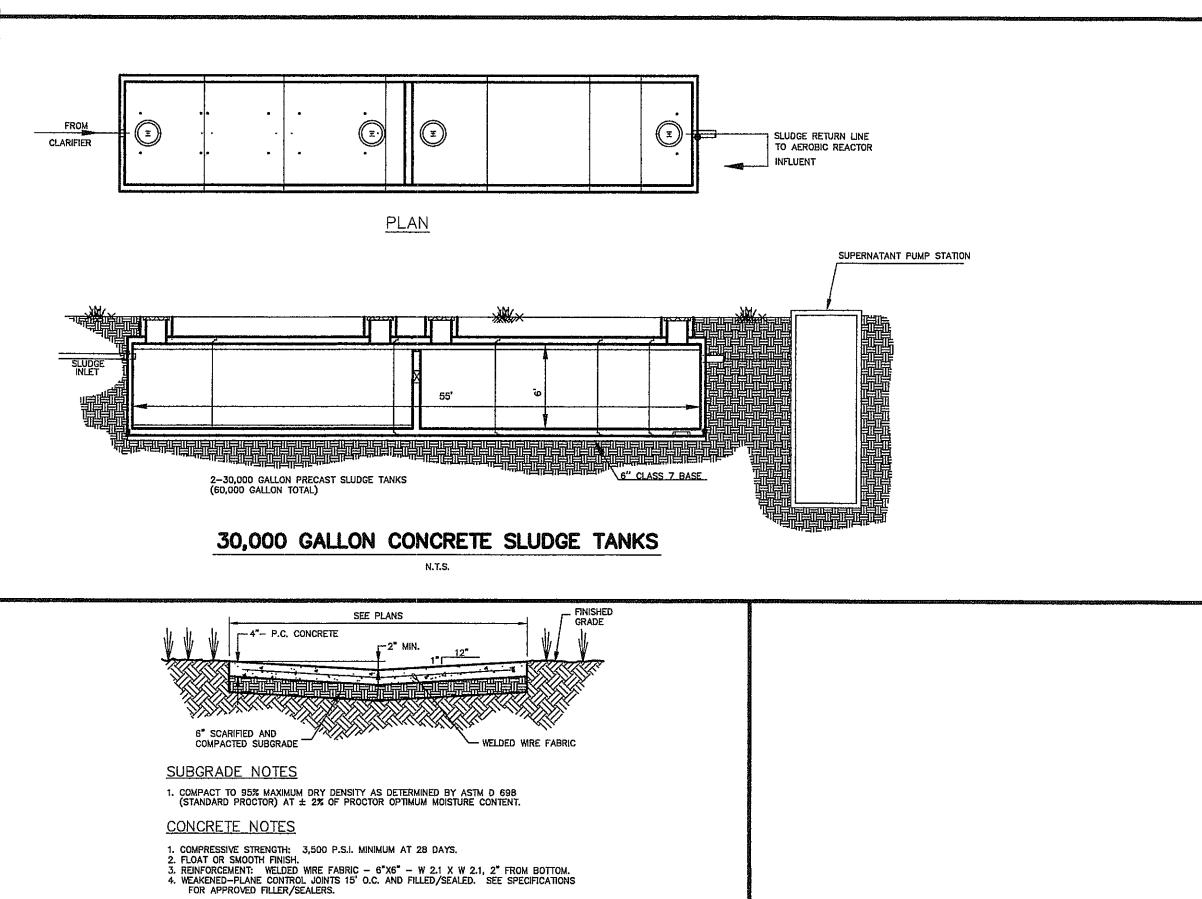
FM—1 : INFLUENT DOPPLER ULTRA SONIC FLOW METER 1

# TREATMENT PLANT #2 FLOW SCHEMATIC

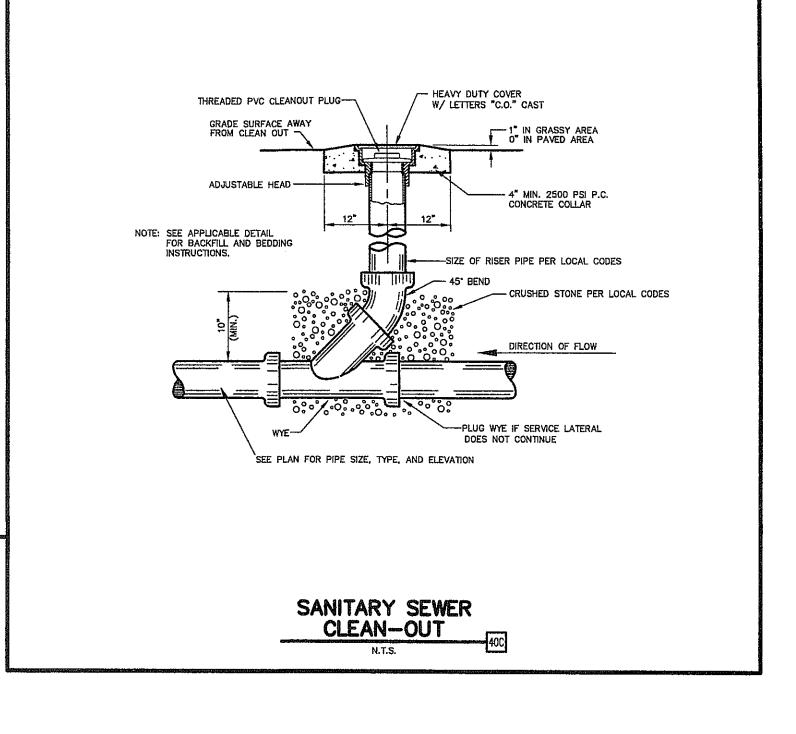


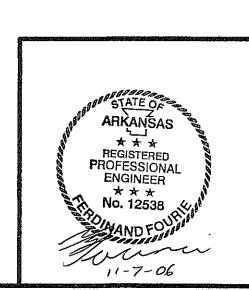
26' DIAMETER CLARIFIER DETAIL LAKESIDE SPIROFLOW N.T.S.





CONCRETE SWALE





_						
	INITIAL DESIGN	10-16-05	DAT	FF	FF	FF
	INTIAL DESIGN	DATE	EOR	PM	DES	DRW
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		7® <b>=</b> 1				

ASSOCIATES, INC • PLANNERS • SURVEYORS

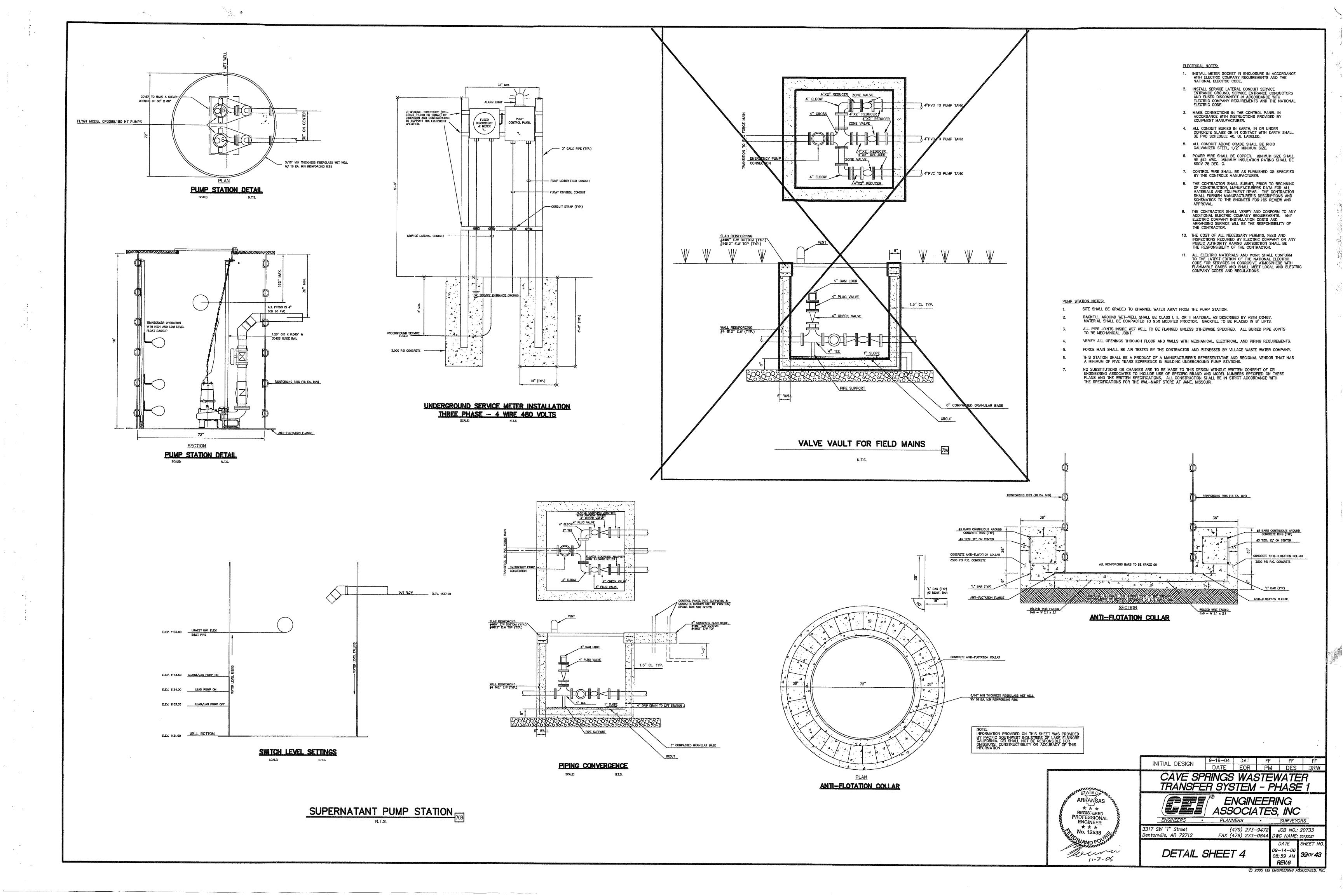
Bentonville, AR 72712 FAX (479) 273-0844

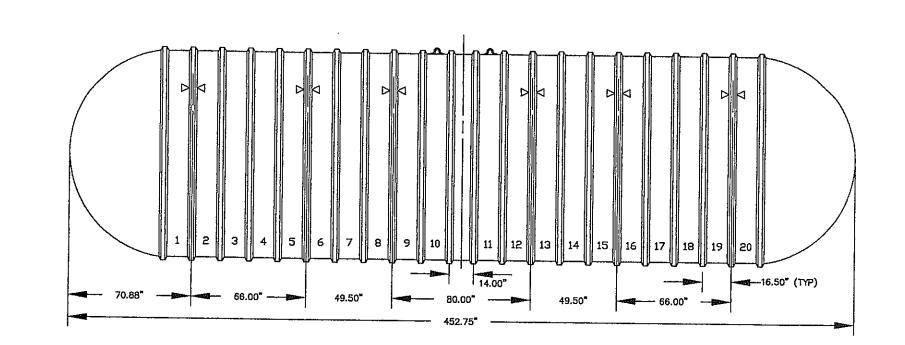
DETAIL SHEET 3

09-14-06 08:59 AM 38 OF 43 REV.6

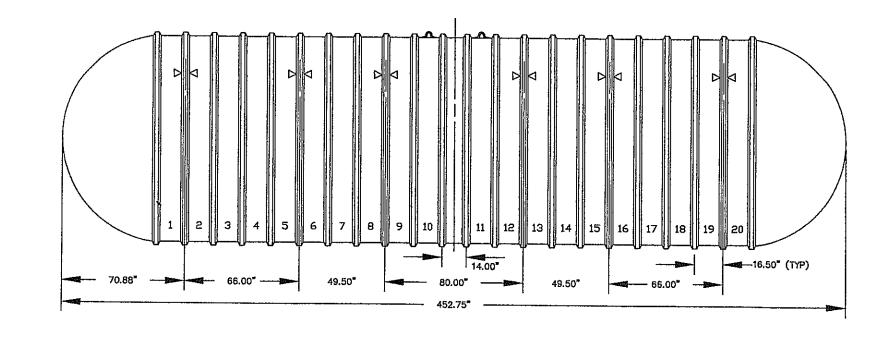
DWG NAME: 20733DE

(479) 273-9472 JOB NO.: 20733.0

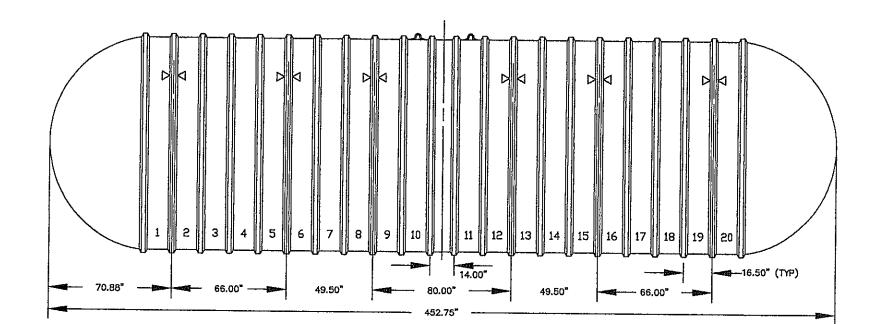




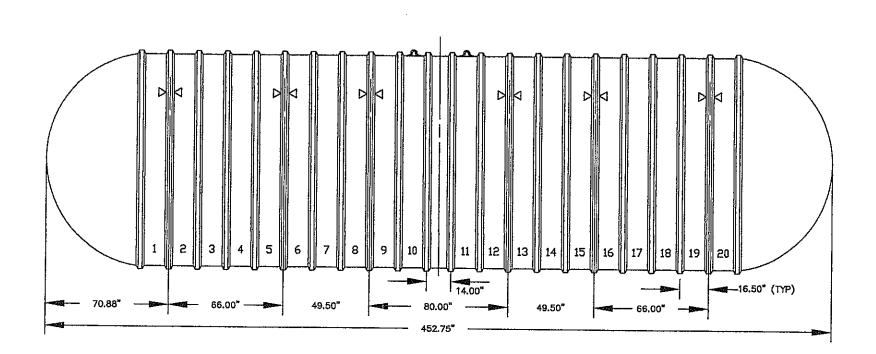
PUMP TANK 3 (25,000 GAL)



PUMP TANK 4A (20,000 GAL)

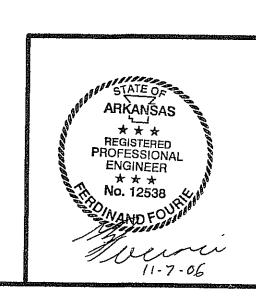


PUMP TANK 4B (20,000 GAL)

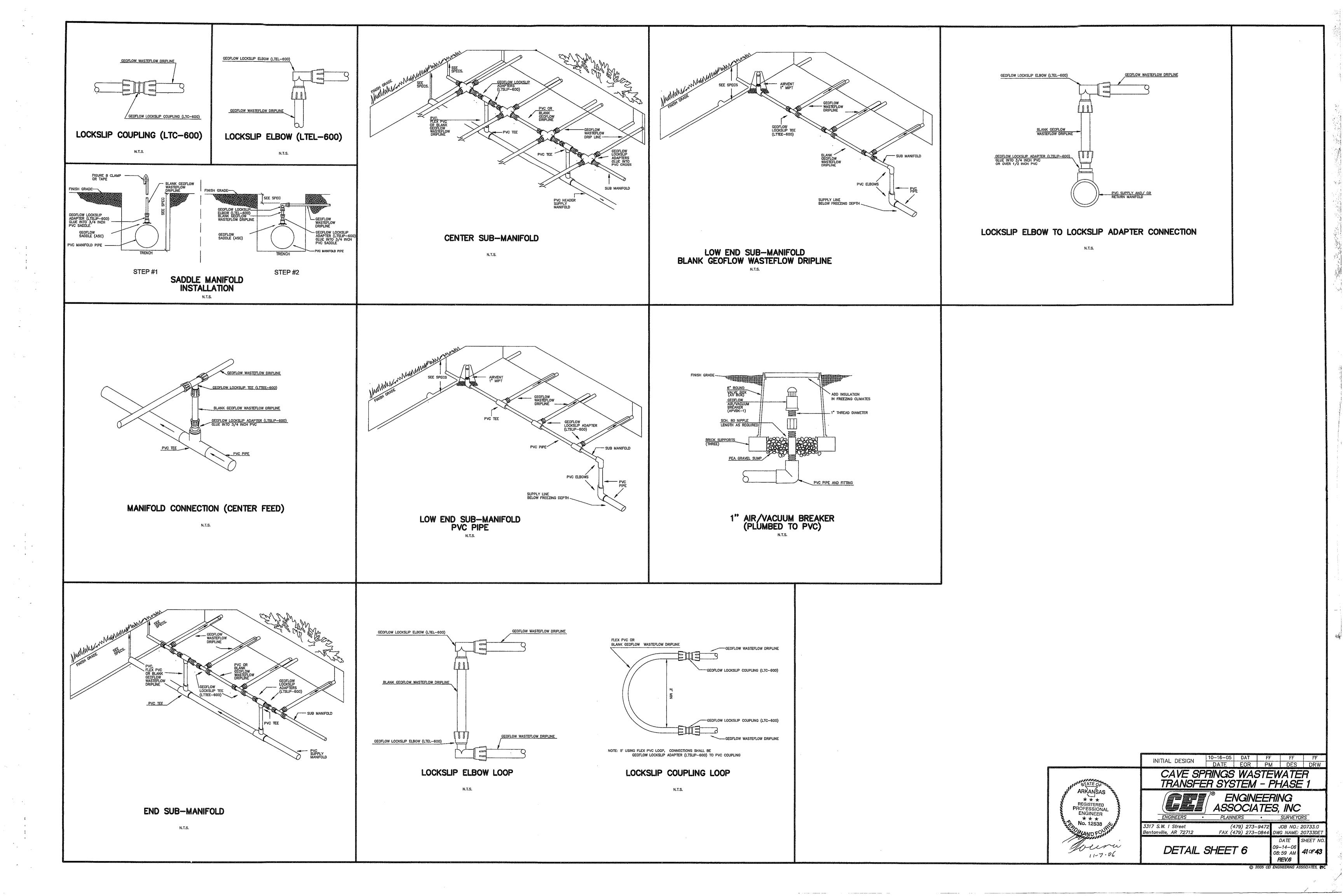


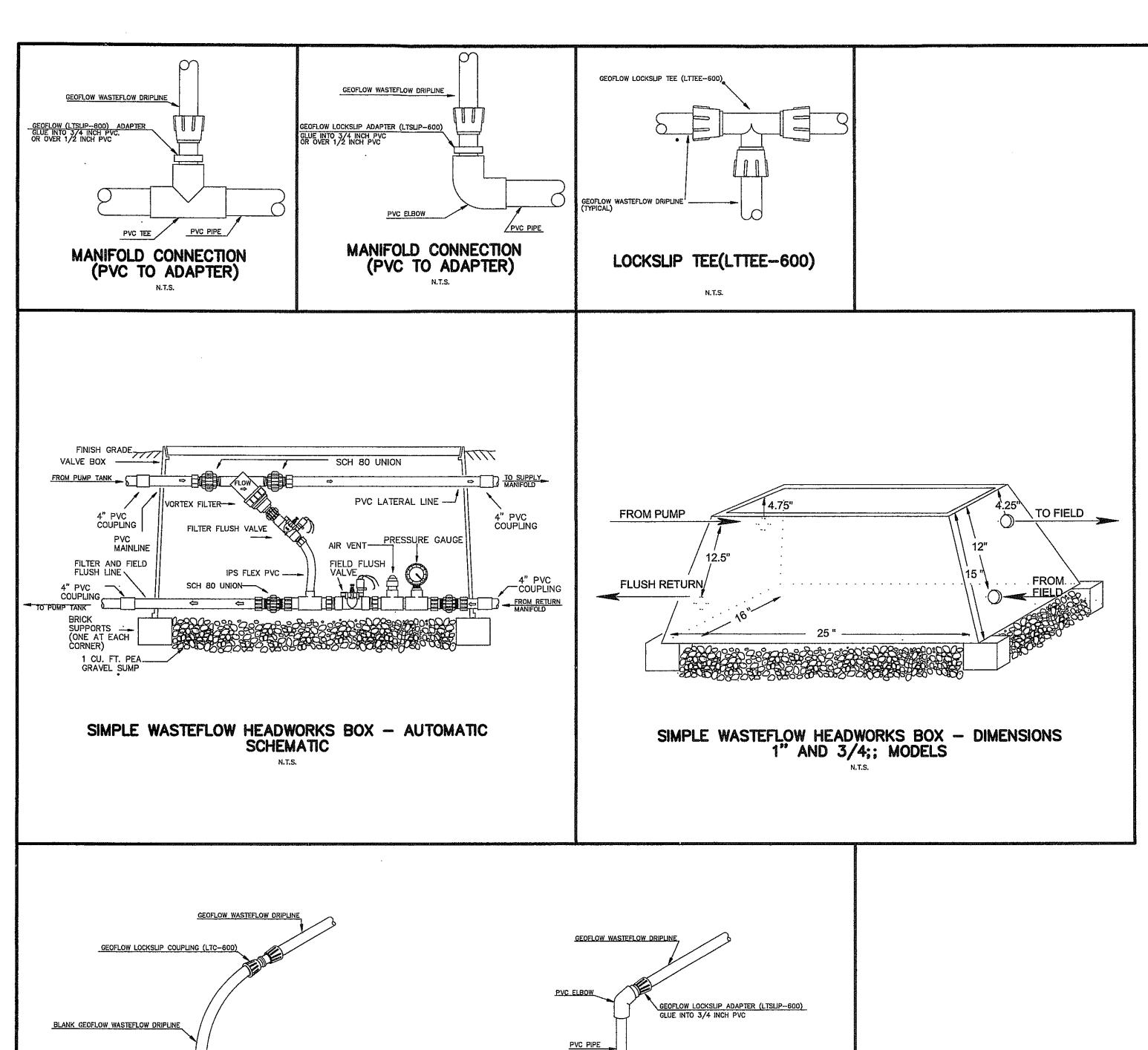
PUMP TANK 5 (20,000 GAL)

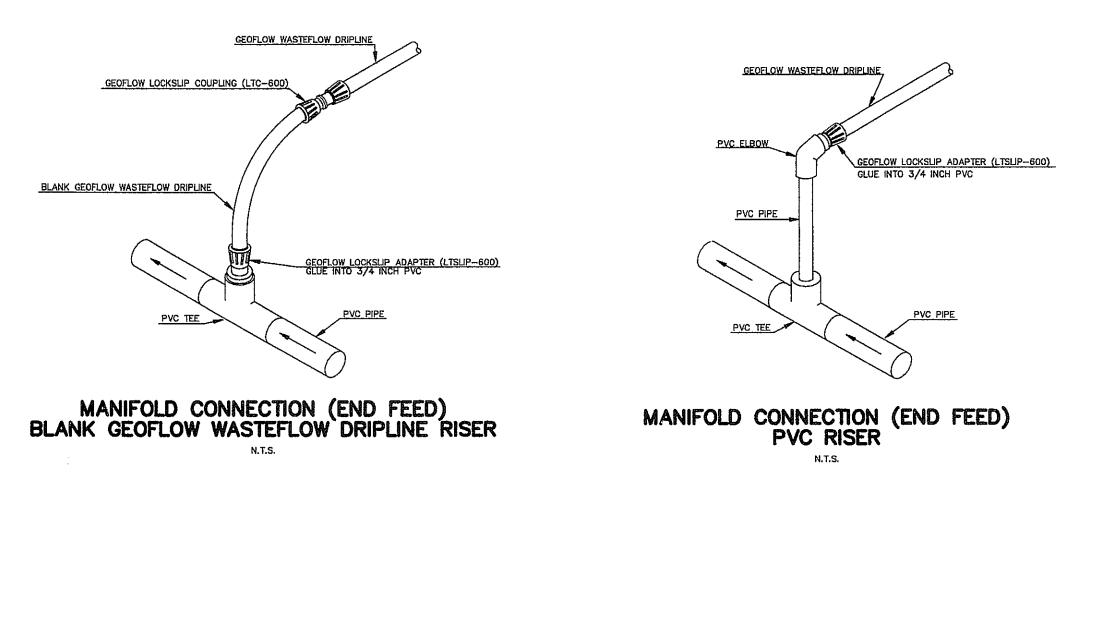
NOTE:
PUMP TANK DRAWINGS WILL BE PRODUCED BY XERXES CORPORATION AFTER
PUMP TANK ORDER IS PLACED BY OWNER UNDER CONTRACT 1. THESE DRAWINGS
WILL BE UPDATED AFTER THIS INFORMATION BECOMES AVAILABLE.



					•
INITIAL DESIGN	10-16-05 DATE	DAT EOR	FF PM	FF DES	FF DRW
CAVE SP TRANSFE	RINGS R SYS	WAS	TEW	ATE	R
ENGINEERS •	PLANN		TES,	:	
3317 S.W. / Street Bentonville, AR 72712	(4: FAX (4:	79) 273—9 79) 273—0	9472 J 9844 DWG	OB NO.: NAME:	20733.0 20733DET
DETAIL S	SHEET	5	09- 08: .	)ATE 14-06 59 AM <b>EV.6</b>	SHEET NO. 4 <b>0</b> 0F43

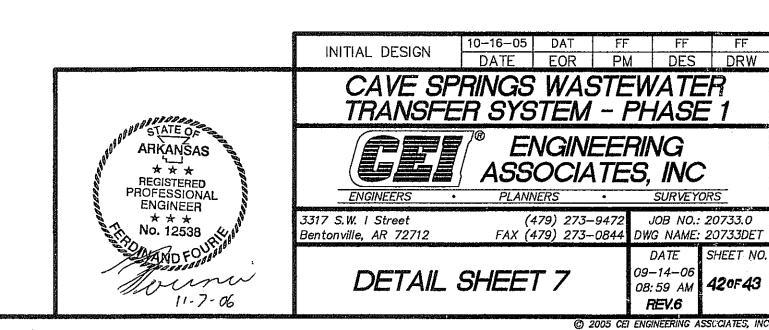


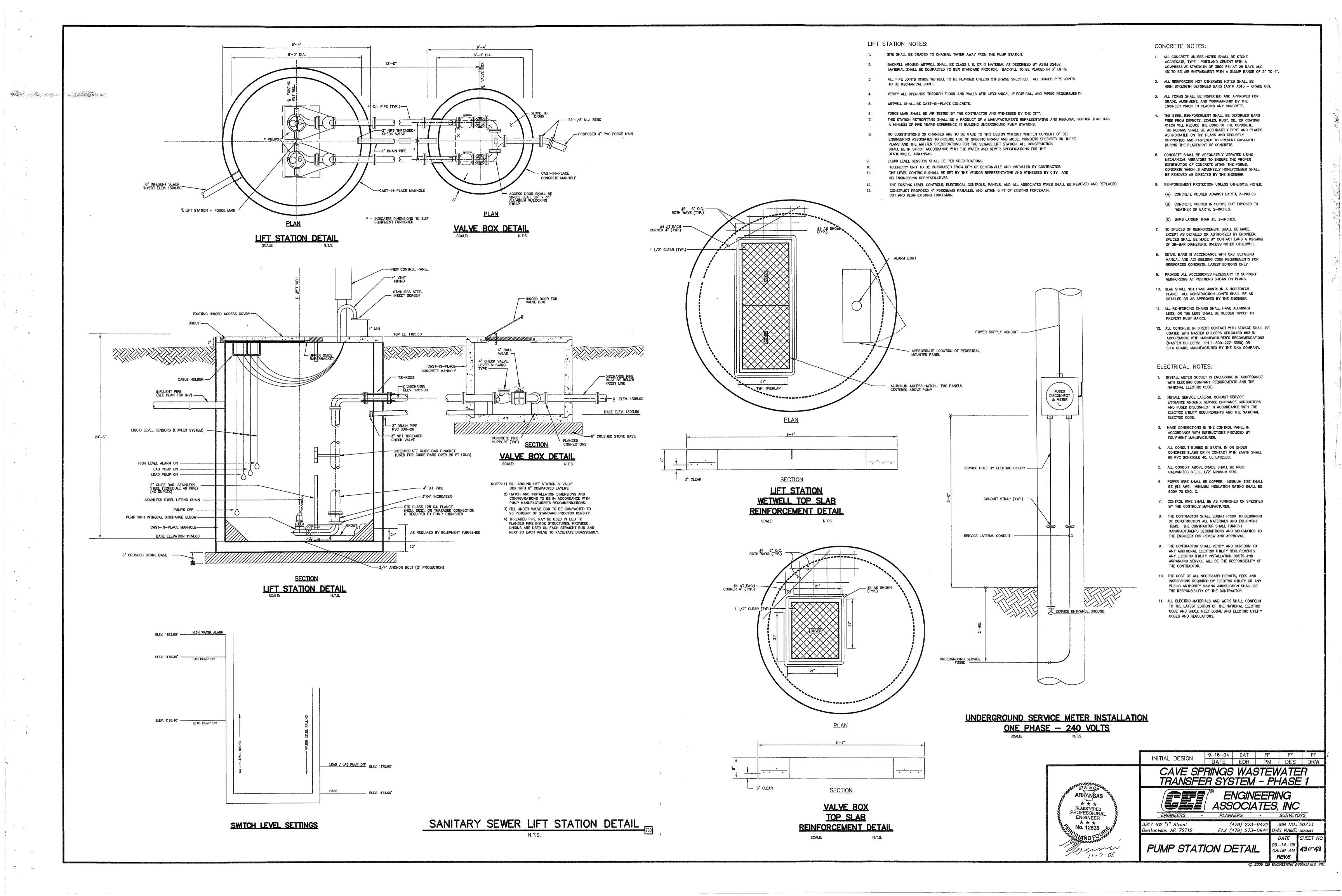




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From: <u>McWilliams, Katherine</u>
To: <u>Deardoff, Amy</u>

Subject: FW: Cave Springs WWTP Design Drawings Date: Thursday, July 13, 2017 3:29:45 PM

Attachments: image003.png

CAVE SPRINGS WWTP FULL PLAN SET.pdf

#### 4893-WR-3

#### Cave Springs WWTP Plans

From: Barret Knutson [mailto:bknutson@mce.us.com]

**Sent:** Thursday, July 13, 2017 3:23 PM

**To:** McWilliams, Katherine

Subject: Cave Springs WWTP Design Drawings

Katherine,

As I mentioned a while back: I was gone on vacation for 2-weeks. Upon my arrival, I went to the City, got the original plans, and scanned them into a single pdf file. Previously, we did not have an electronic version of plan set, but I was hoping that they would help clear up some of the issues that were preventing the permit from being fully approved.

Please call or email me back with any questions or if I need to provide you with additional information.

#### Barret Knutson, El Project Engineer



1810 N. College Ave. | Fayetteville, AR 72703 P.O. Box 1229 | Fayetteville, AR 72202 479.443.2377 office | 479.443.9241 fax

bknutson@mce.us.com



Join the MCE team today!