



August 10, 2015

Arkansas Department of Environmental Quality
5301 Northshore Drive
N Little Rock, AR 72118

Attention: Colby Ungerank

RE: Permit No: 4815-WR-4, AFIN 72-00974
Goshen Municipal Property Owners Improvement District

In regards to your letter to Mr. Robert Holmes on July 13, 2015 on the above referenced facility, please see the plans which are being mailed to you today by Fed Ex. I have noted below the deficiencies and the plan page which you will find the information requested.

A. Flow diagram of the treatment system; and
See Plan Page 9B/40

B. Engineer drawings showing detailing the drip fields. The drawings shall include, but not limited to, the following:

Location of Drip Field (Primary and Reserved); See Plan Page 2/40 3/40 9/40

Location Test Pits in the Drip field (Primary and Reserved); See Plan Page 9/40

Size of the Each Drip Field (Primary and Reserved); See Plan Page 9/40

Loading Rate for each Drip Field (Primary and Reserved); See Plan Page 9/40

Maximum design capacity for each Drip Field; and See Plan Page 9/40

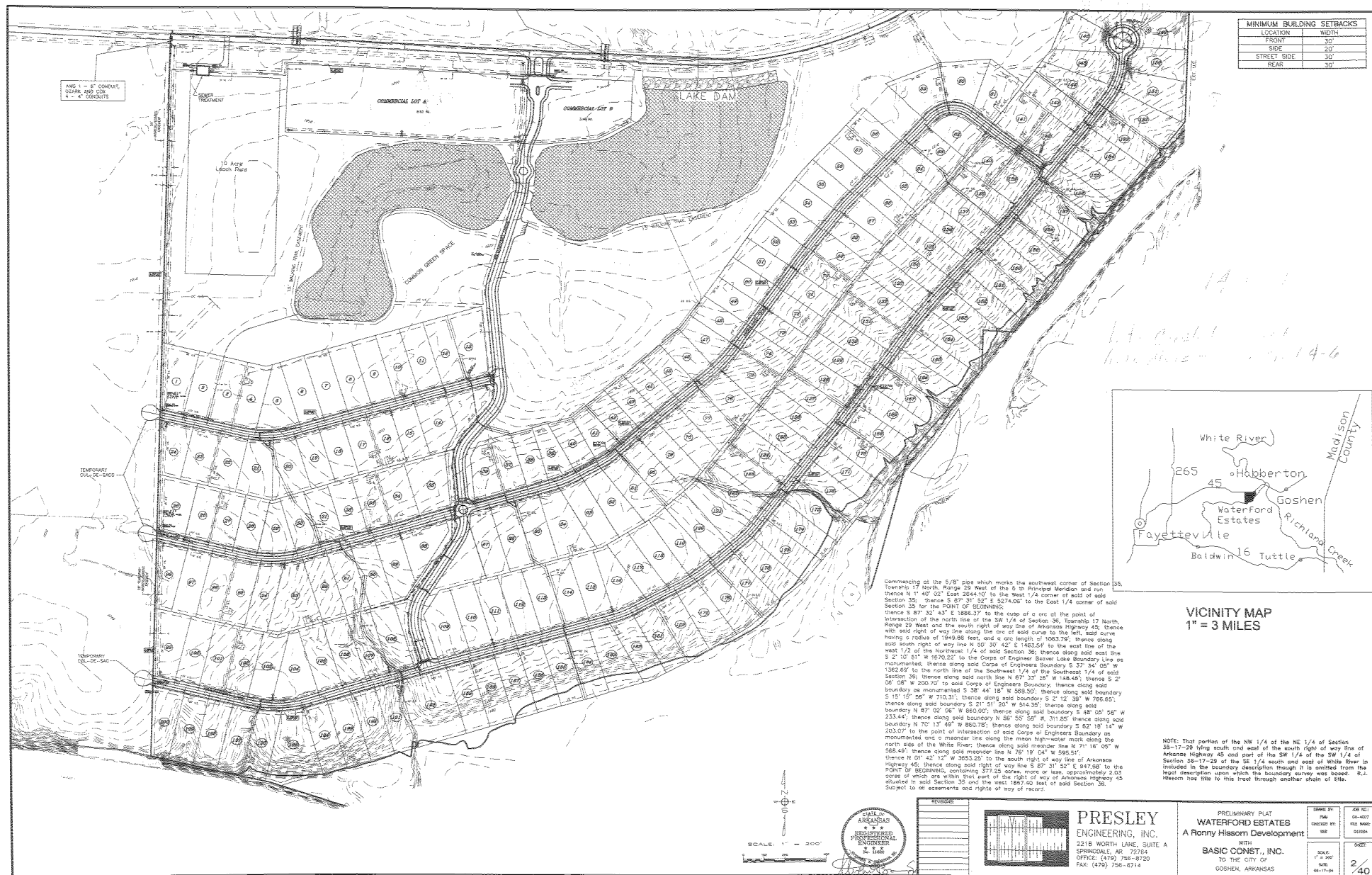
Type of Cover Crop. Fescu Bermuda blend

Regards

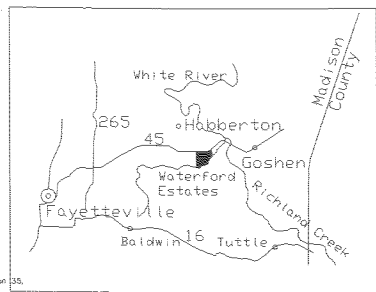
Kathy Bartlett

Internal Operations Manager

Aqua Tech Systems



MINIMUM BUILDING SETBACKS	
LOCATION	WIDTH
FRONT	30'
SIDE	30'
STREET SIDE	30'
REAR	30'



VICINITY MAP
1" = 3 MILES

connecting at the 5/8" pipe which marks the southwest corner of Section 35, Township 17 North, Range 20 East of the 3rd Principal Meridian and run thence N 1° 40' 00" East 2544.10' to the West 1/4 corner of said of said Section 35, thence S 87° 31' 52" E 5274.05' to the East 1/4 corner of said Section 35 for the POINT OF BEGINNING;

thence S 87° 32' 43" E 1886.37' to the cusp of a arc at the point of intersection of the north line of the SE 1/4 of Section 36, Township 17 North, Range 20 West and the south right of way line of Arkansas Highway 45, thence with said right of way line along the arc of said curve to the left, said curve having a radius of 1949.86 feet, and a arc length of 1063.79'; thence along said south right of way line S 50° 30' 42" E 1463.54' to the east line of the west 1/2 of the Northwest 1/4 of said Section 36; thence along said east line S 2° 10' 51" E 1670.22' to the Corps of Engineers Boundary Line or S 37° 34' 00" W 1362.69' to the north line of the Southwest 1/4 of the Southeast 1/4 of said Section 36; thence along said north line N 87° 32' 10" W 148.45'; thence S 2° 05' 08" W 200.70' to said Corps of Engineers Boundary; thence along said boundary as monumented S 38° 44' 18" W 563.50'; thence along said boundary S 1° 15' 26" W 710.31'; thence along said boundary S 2° 12' 33" W 766.65'; thence along said boundary S 21° 51' 20" W 514.35'; thence along said boundary N 87° 02' 05" W 565.00'; thence along said boundary S 48° 05' 54" W 233.44'; thence along said boundary N 56° 55' 58" N, 311.85'; thence along said boundary N 70° 13' 48" W 860.70'; thence along said boundary S 62° 15' 14" W 203.07' to the point of intersection of said Corps of Engineers Boundary as monumented and a meander line along the mean high-water mark along the north side of the White River; thence along said meander line N 71° 15' 05" W 568.49'; thence along said meander line N 76° 19' 04" W 595.51'; thence N 01° 42' 12" W 355.35' to the south right of way line of Arkansas Highway 45; thence along said right of way line S 87° 31' 52" E 847.68' to the corner of which are within that part of the right of way of Arkansas Highway 45 situated in said Section 35 and the west 1867.40 feet of said Section 36. Subject to all easements and rights of way of record.

NOTE: That portion of the NW 1/4 of the NE 1/4 of Section 35-17-28 lying south and east of the south right of way line of Arkansas Highway 45 and part of the SW 1/4 of the SE 1/4 of Section 36-17-28 of the SE 1/4 south and east of White River is included in the boundary description though it is omitted from the legal description upon which the boundary survey was based. R.J. Heesen has title to this tract through another chain of title.



PRESLEY
ENGINEERING, INC.
2218 NORTH LANE, SUITE A
SPRINGDALE, AR 72764
OFFICE: (479) 756-8700
FAX: (479) 756-8714

PRELIMINARY PLAT
WATERFORD ESTATES
A Ronny Hissom Development
WITH
BASIC CONST., INC.
TO THE CITY OF
GOSHEN, ARKANSAS

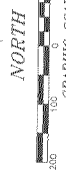
DATE: 1/14/98	DATE: 01-14-98
BY: [Signature]	BY: [Signature]
CHECKED BY: [Signature]	CHECKED BY: [Signature]
DATE: 01-14-98	DATE: 01-14-98
SHEET: 2	OF: 40

WATER LINE CONSTRUCTION NOTES

- The contractor shall maintain a minimum cover of thirty-six (36) inches over all water lines. If the contractor determines that the minimum cover is not sufficient, it will be necessary for the contractor to pay close attention to the construction of the water lines to determine trench depths which will be necessary. Contractor shall be responsible for determining the exact location of all utilities before proceeding with any construction.
- The locations of existing utilities shown on these plans are general in nature and are based on information provided by the owner. The contractor shall be responsible for determining the exact location of all utilities before proceeding with any construction.
- All construction methods and materials shall conform to the standards, specifications and requirements of the Fayetteville Water & Sewer Utilities.
- Unless otherwise noted water lines shall be 30"-14" (C-300) P.V.C. Pipe.
- All concrete reaction blocking has been removed for clarity from the plans. The contractor shall be responsible for determining the reaction blocking as indicated within the details and specifications.
- All Class Seven (7) backfill shall be compacted in four (4) inch lifts to 95% of a modified proctor. Payment for Class 7 backfill shall be made by the owner. The contractor shall be responsible for determining the exact location of all utilities before proceeding with any construction.
- Class Seven (7) backfill to be full depth in all locations under pavement, and curb and gutters.
- All required testing shall be performed by a certified testing agency. The contractor shall be responsible for determining the material and testing field selected by the owner.
- All water services under the road shall be subject to items 6 and 7 above in the Water Line Construction Notes on this sheet.

NOTES:

- Sanitary Sewer shall be constructed five (5) feet outside the street right-of-way.
- Water lines shall be constructed five (5) feet outside the sanitary sewer line.
- Water lines shall be constructed with thirty-six (36) inches minimum cover.
- All sewer services to be placed within five (5) feet of finish grade.
- Full depth compacted class seven (7) shall be placed under all water and sewer services and main street crossings.



LEGEND

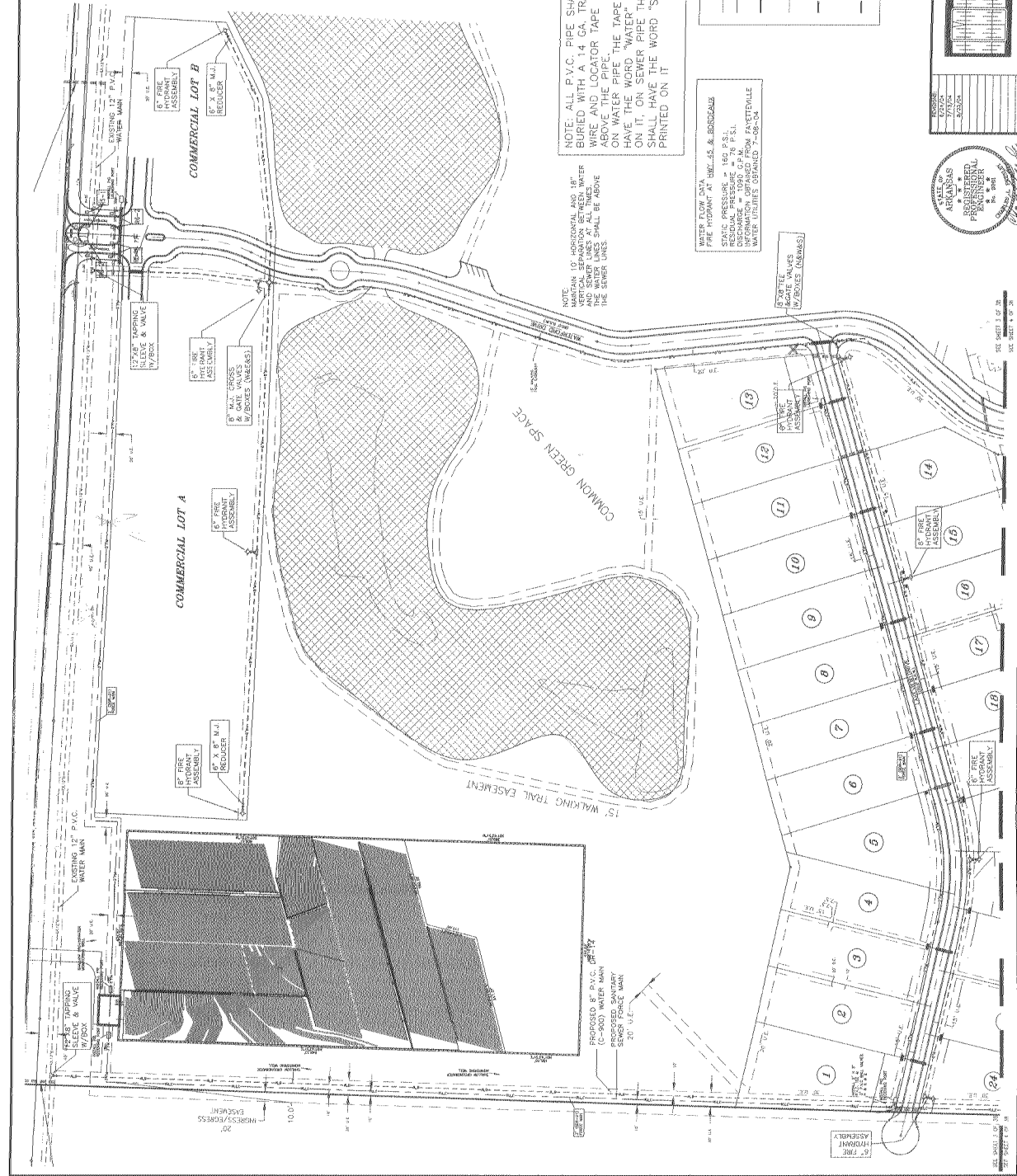
BUILDING SETBACK	PROPOSED DOUBLE WATER METER
UTILITY EASEMENT	PROPOSED SINGLE WATER METER
PROPOSED P.V.C. (C-300) 24" FORCE MAIN	0.5 BUILDING SETBACK
PROPOSED P.V.C. (C-300) 12" FORCE MAIN	UTILITY EASEMENT
EXISTING WATER MAIN	UTILITY CROSSING
PROPOSED WATER MAIN (SIZE AS NOTED)	CLASS 7 BACKFILL (UNDER PAVEMENT)
PROPOSED FIRE HYDRANT	

NOTE: ALL P.V.C. PIPE SHALL BE BURIED WITH A 14 GA. TRACER WIRE AND LOCATOR TAPE 18" ABOVE THE PIPE. ON WATER PIPE THE TAPE SHALL HAVE THE WORD "WATER" PRINTED ON IT. ON SEWER PIPE THE TAPE SHALL HAVE THE WORD "SEWER" PRINTED ON IT.

NOTE: 10' HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN WATER AND SEWER LINES. THE WATER LINES SHALL BE ABOVE THE SEWER LINES.

WATER FLOW DATA
FIRE HYDRANT AT 160 P.S.I.
STATIC PRESSURE = 160 P.S.I.
DISCHARGE = 1000 G.P.M.
WATER UTILITIES OBTAINED 1-28-04

8" X 12" TEL & GATE VALVES W/BOXES (NEW)



PRESLEY ENGINEERING, INC.
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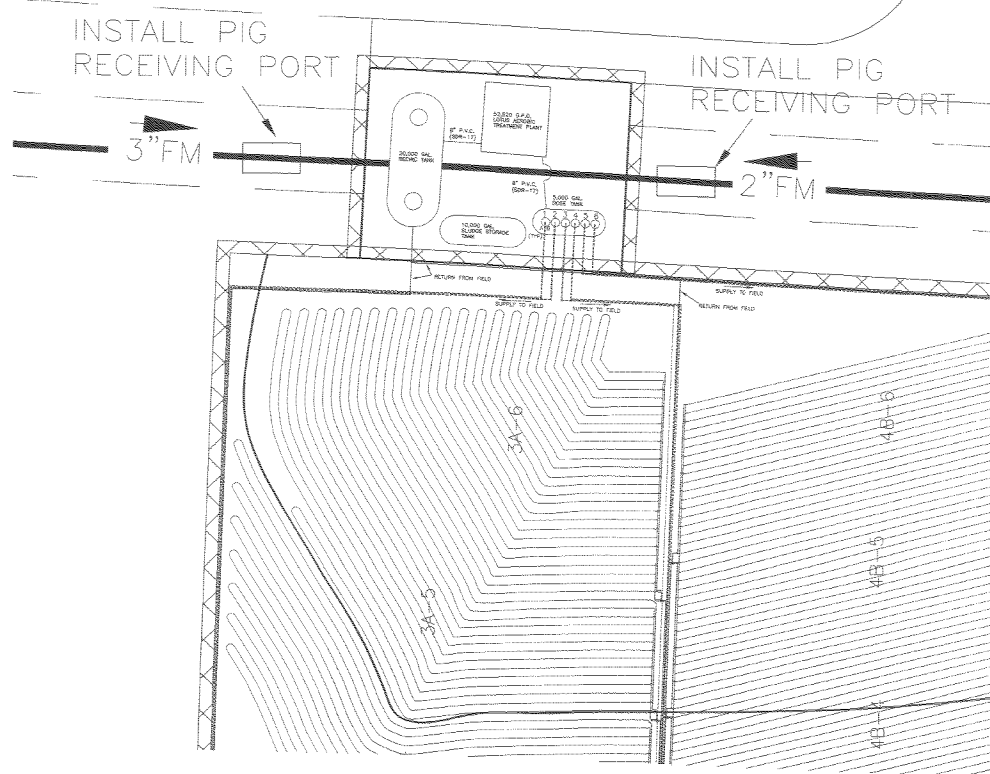
WATER & SEWER IMPROVEMENT PLAN
WATERFORD ESTATES
A Roney Hissom Development
BASIC CONST., INC.
COLUMBIAN, ARKANSAS
SHEET 3/40

Q (DESIGN) = (202) (260 GPD/LOT) = 52,520 GPD
 LOADING RATE = 0.20 GPD/FT²
 AREA = $52520 / 0.2 = 262,600$ FT²
 TOTAL DRIPPER LENGTH = 131,300 FT.
 SEE SOILS REPORT BY RICHARD MURPHREE

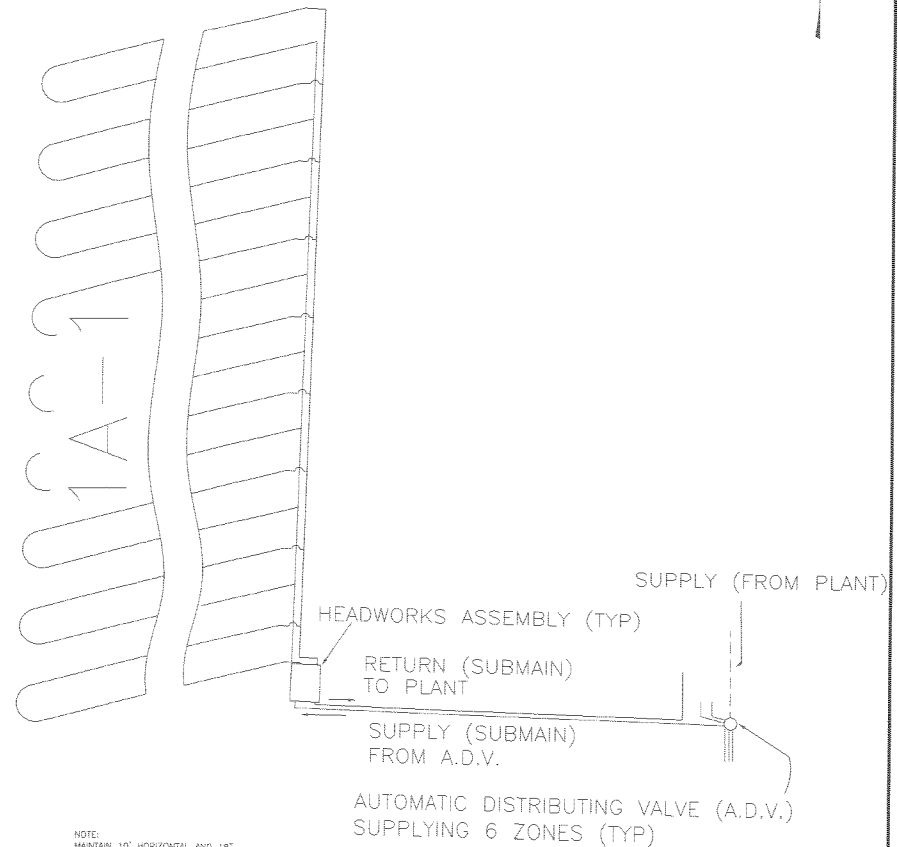
PUMP TIMING CALCULATIONS

(202 LOTS) (260 GPD/LOT) = 52520 GPD
 6- DUPLEX PUMPS = 12 PUMPS (EACH PUMP SUPPLIES 6 HEADWORKS)
 $Q(\text{ea pump}) = 52520 / 12 = 4376.67$ GPD
 $Q(\text{headworks}) = 4376.67 / 6 = 729.44$ GPD
 EMITTERS PER ZONE = (9)(103) = 927
 FLOW PER HEADWORKS = (0.53)(927) = 491.31 GPH = 8.19 GPM
 PUMPING TIME PER HEADWORKS = $729.44 / 8.19 = 89.08$ MINUTES PER DAY
 NUMBER OF HEADWORKS = (12)(6) = 72
 TOTAL PUMPING TIME = (89.08)(72) = 6413.76 TOTAL PUMPING MINUTES PER DAY

SUMMARY: SIDE "A" OF ALL 6 DUPLEX PUMPS RUNNING SIMULTANEOUSLY SUPPLYING EFFLUENT TO 6 ZONES IN SIX DIFFERENT FIELDS FOR A PERIOD OF 10 MINUTES AND THEN A REST PERIOD OF 3.5 MINUTES AND THEN REPEATING WITH SIDE "B" OF ALL 6 DUPLEX PUMPS.



TYPICAL ZONE LAYOUT



NOTE:
 MAINTAIN 18" HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN WATER AND SEWER LINES AT ALL TIMES. THE WATER LINES SHALL BE ABOVE THE SEWER LINES.



DATE	BY
07/25/04	08/25/04

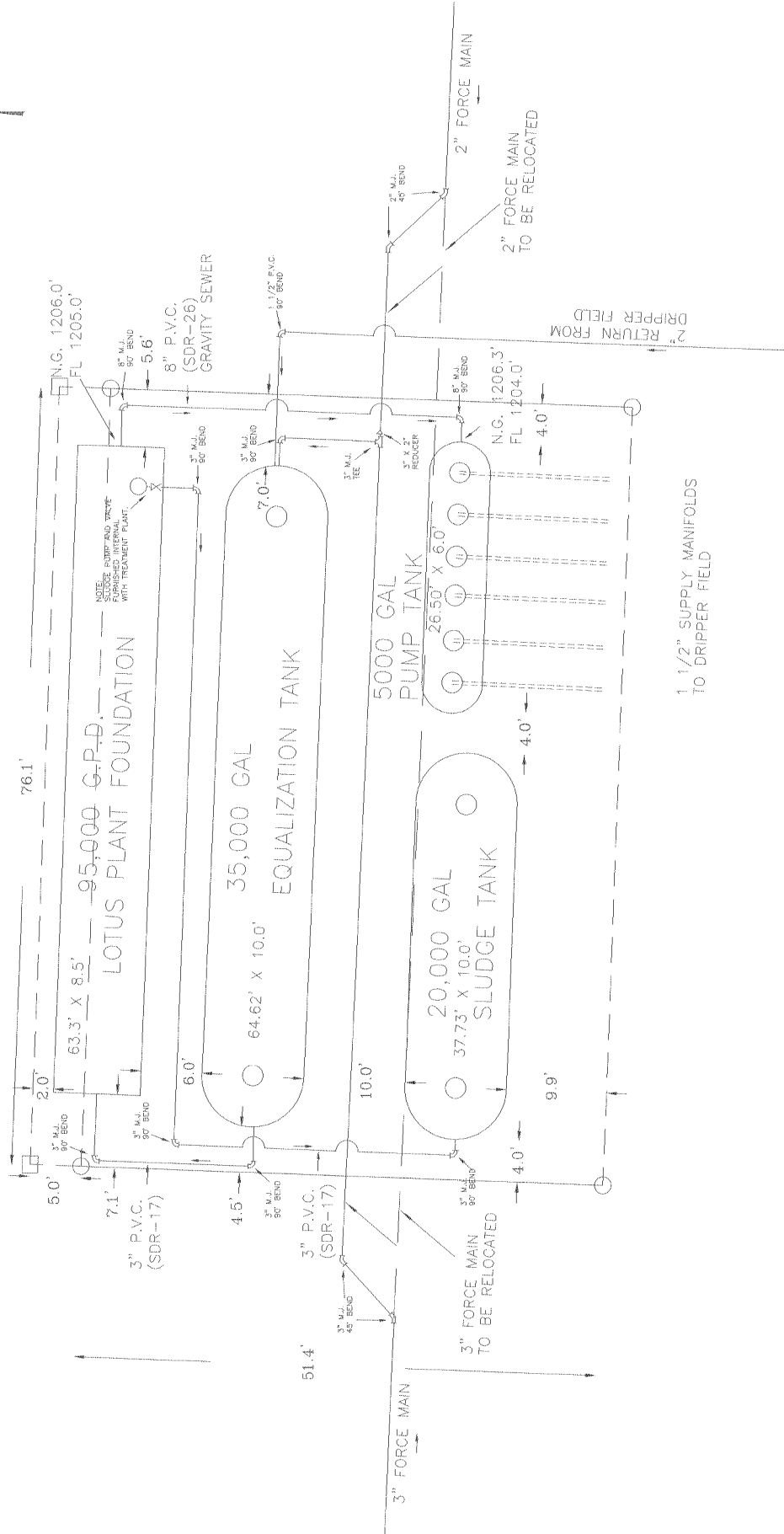


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 ENGINEERING, INC.
 2218 NORTH LANE, SUITE A
 SPRINGDALE, AR 72764
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DRIPPER FIELD DETAIL
 FOR
WATERFORD ESTATES
 A Ronny Hissom Development
 WITH
BASIS CONST., INC.
 TO THE CITY OF
 GOSHEN, ARKANSAS

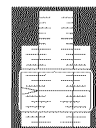
DATE	BY	DATE	BY
07/25/04	08/25/04	07/25/04	08/25/04

9A/40



DZEEF

- SET POINTS
□ S' OFFSETS

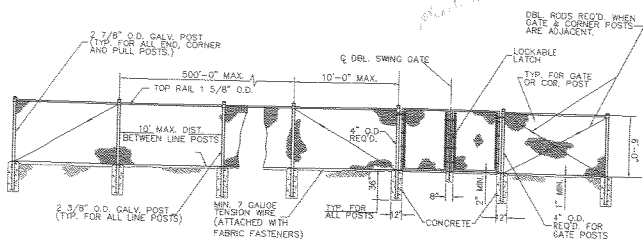


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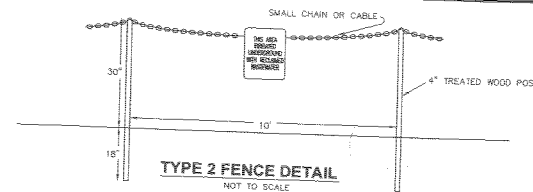
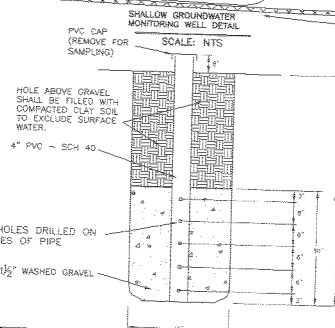
JOB NO. 04-A007 FILE NAME 04-A007		SHEET 9B / 40
DRAWING BY DATE	CHECKED BY DATE	SCALE 1" = 5' DATE 10/19/04

Q (DESIGN)= (202) (260GPD/LOT)= 52,520 GPD
 LOADING RATE= 0.20 GPD/FT²
 AREA= 52520/0.20 = 262,600FT²
 TOTAL DRIPPER LENGTH= 131,300FT.
 SEE SOILS REPORT BY RICHARD MURPHREE

NOTE:
 MAINTAIN 10' HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN WATER AND SEWER LINES AT ALL TIMES. THE WATER LINES SHALL BE ABOVE THE SEWER LINES.



TYPE 1 FENCE DETAIL
 NOT TO SCALE



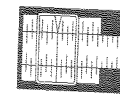
TYPE 2 FENCE DETAIL
 NOT TO SCALE



David L. Presley
 8/3/164

4.3 SOIL TEST PIT

REVISION	DATE
1	07/20/04
2	8/20/04
3	8/23/04
4	8/31/04



PRESLEY
 ENGINEERING, INC.
 2218 NORTH LAKE, SUITE A
 SPRINGDALE, AR 72764
 OFFICE: (479) 756-8720
 FAX: (479) 756-8714

SEWER PLANT PLAN
 FOR
WATERFORD ESTATES
 A Ronny Hissom Development
 WITH
BASIS CONST., INC.
 TO THE CITY OF
 GOSHEN, ARKANSAS

DESIGN BY	DATE	JOB NO.
08/01/04	08/01/04	08-0007
DESIGNED BY	FILE NAME	08-0007
SCALE	SHEET	SHEET
1" = 40'	9/40	

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