

# SITE, DRAINAGE & DETENTION PLAN

## PROPOSED 9 40' X 140' BUILDINGS

**BENCH MARK:**  
Floodplain Reference Mark Number 010200 is a Brass Disc, Stamped 010200 on Bridge at Almeda School Road and Clear Creek located on the downstream concrete walk, on SE corner of the N-bound bridge on Key Map 612C in the Clear Creek Watershed near stream A100-00-00 ELEV. 60.66 NAVD 1988, 2001 Adjusted

POARCH/SWINBANK  
FBC NO.: 2001119376

### LEGEND

○	I.R. Set
●	I.R. Found
■	Catch Basin
◻	Fence Corner (Record Call)
( )	Wood Fence
—	Chain Link Fence
—X—X—	Barbed Wire Fence
—X—X—	Hog Wire Fence
—	Concrete
—	Asphalt
→	Flow
+	Spot Elevation
—	Contour Interval
—	Encroachment
—	Overhead Electric Line
—	Building Line
⊗	Proposed Sonotons

SCALE:  
1" = 50'

**NOTE:**  
1. BEARING BASE IS THE PLAT OF BLUEBONNET ACRES, AS RECORDED IN VOL. 4, PG. 24 OF THE DEED RECORDS OF FT. BEND COUNTY, TX.  
2. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE COMMITMENT, THERE MAY BE EASEMENTS, SET-BACK LINES, BUILDING LINES, AND OTHER ENCUMBRANCES THAT MAY AFFECT PROPERTY THAT ARE NOT SHOWN HEREON.

### DETENTION SUMMARY:

- 1) TOTAL AREA 4.775 ACRES
- 2) DETENTION RATE 0.65 AC-FT / ACRE
- 3) TOTAL DETENTION REQUIRED 3.1038 AC-FT
- 4) TOTAL DETENTION PROPOSED 3.358 AC-FT  
- DETENTION POND 3.1358 AC-FT  
- DETENTION PARKING -0- AC-FT

### RESTRICTOR:

ALLOWABLE  $Q = 2.816$  CFS  
VELOCITY = 13.8996 FPS  
AREA = .2022 SQ - FT  
DIAMETER = .5074 FT  
SAY = 6"Ø

### DETENTION CALCULATIONS:

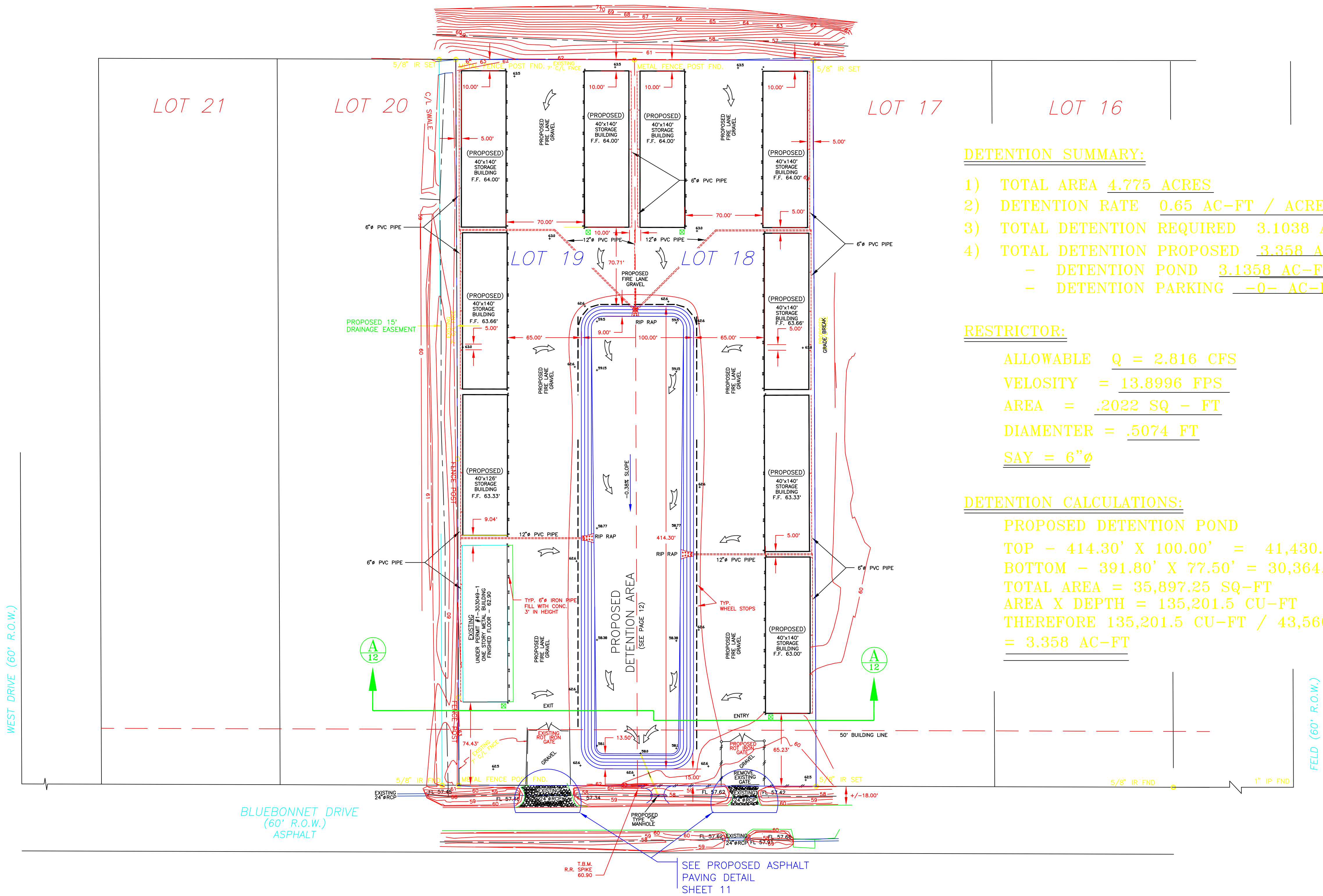
PROPOSED DETENTION POND  
TOP - 414.30' X 100.00' = 41,430.00 SQ-FT  
BOTTOM - 391.80' X 77.50' = 30,364.50 SQ-FT  
TOTAL AREA = 35,897.25 SQ-FT  
AREA X DEPTH = 135,201.5 CU-FT  
THEREFORE 135,201.5 CU-FT / 43,560 SQ-FT / ACRE  
= 3.358 AC-FT

### SURVEY PLAT OF LOT 18 & 19 BLOCK B BLUEBONNET ACRES

A SUBDIVISION IN  
H. SANDERS SURVEY  
VOL. 4, PG. 24  
DEED RECORDS OF  
FT. BEND COUNTY, TX.

FT. BEND COUNTY AND  
HARRIS COUNTY, TEXAS

4.7750 ACRES



C.B. URBAN, P.E. No. 51315  
R.P.L.S. No. 4546

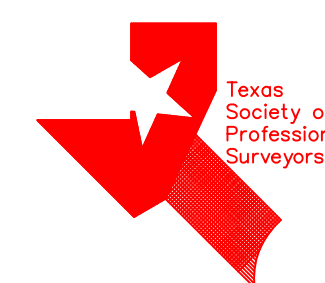
**OWNER:**  
BERNARD BAILEY  
3626 BLUEBONNET DR.  
HOUSTON, TEXAS 77053  
PHONE: (713) 303-7748

**PROJECT:**  
BLUEBONNET STORAGE  
3812 BLUEBONNET DR.  
HOUSTON, TEXAS 77053

### TRANS-STATE INDUSTRIES INC.



2534 VIOLET STREET  
Pasadena, Texas 77503  
(281)487-2251  
(281)487-3017 FAX



### TRANS-STATE INDUSTRIES INC. -CONSULTING ENGINEERS-



2534 VIOLET STREET  
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DATE: 03/17/08 SCALE: 1" = 50'  
DRAWN BY: BF/CU DWG. NO. 07  
SITE, DRAINAGE & DETENTION