

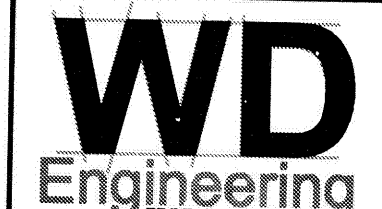
FLOODPLAIN INFORMATION
 A REVIEW OF THE FEMA FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NUMBER 48039C0020H REVISED JUNE 5, 1989 INDICATES THAT THE PROPERTY IS LOCATED ENTIRELY WITHIN UNSHADED ZONE X, WHICH HAS BEEN DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN (0.2% ANNUAL PROBABILITY).

BENCHMARK NOTES
 PRIMARY BENCHMARK IS A BRASS CAP SET FLUSH IN CONCRETE, STAMPED "CITY OF PEARLAND 9 GPS MONU, 1995". THE MONUMENT IS LOCATED IN THE NORTHWEST CORNER OF THE INTERSECTION OF THE WEST ACCESS ROAD TO HIGHWAY 288 AND COUNTY ROAD 92 AND FM 516. THE MONUMENT IS APPROXIMATELY 500 FEET NORTHWEST OF THE SOUTHWEST CORNER OF A CONCRETE PAD FOR STORM DRAIN INLETS, ELEVATION 59.03 FEET, NGVD 1929, 1987 ADJUSTED.
 TEMPORARY BENCHMARK "A" IS A CUT "X" ON TOP OF A HEAD WALL LOCATED APPROXIMATELY 116' SOUTH OF THE SOUTH PROPERTY LINE HAVING AN ELEVATION OF 57.27 FEET, NAVD 1988, 2001 ADJUSTMENT.
 TEMPORARY BENCHMARK "B" IS LOCATED ON THE NORTH RIM OF A MANHOLE APPROXIMATELY 628.5 FEET NORTHWEST OF THE NORTHWEST PROPERTY CORNER HAVING AN ELEVATION OF 60.69 FEET, NAVD 1988, 2001 ADJUSTMENT.

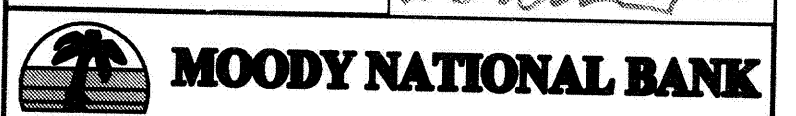
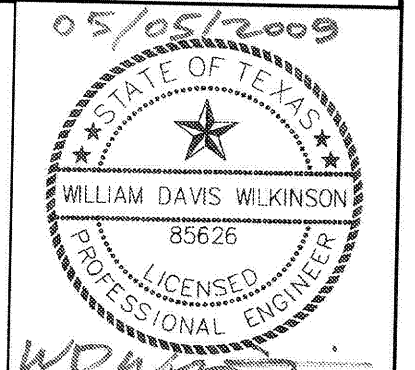
ISSUED FOR CONSTRUCTION
 04/04/2009



ARCHITECTURE • PLANNING • INTERIOR DESIGN
 10200 OLD KATY ROAD
 HOUSTON, TEXAS 77044
 713-465-4860
 www.sligroup.com



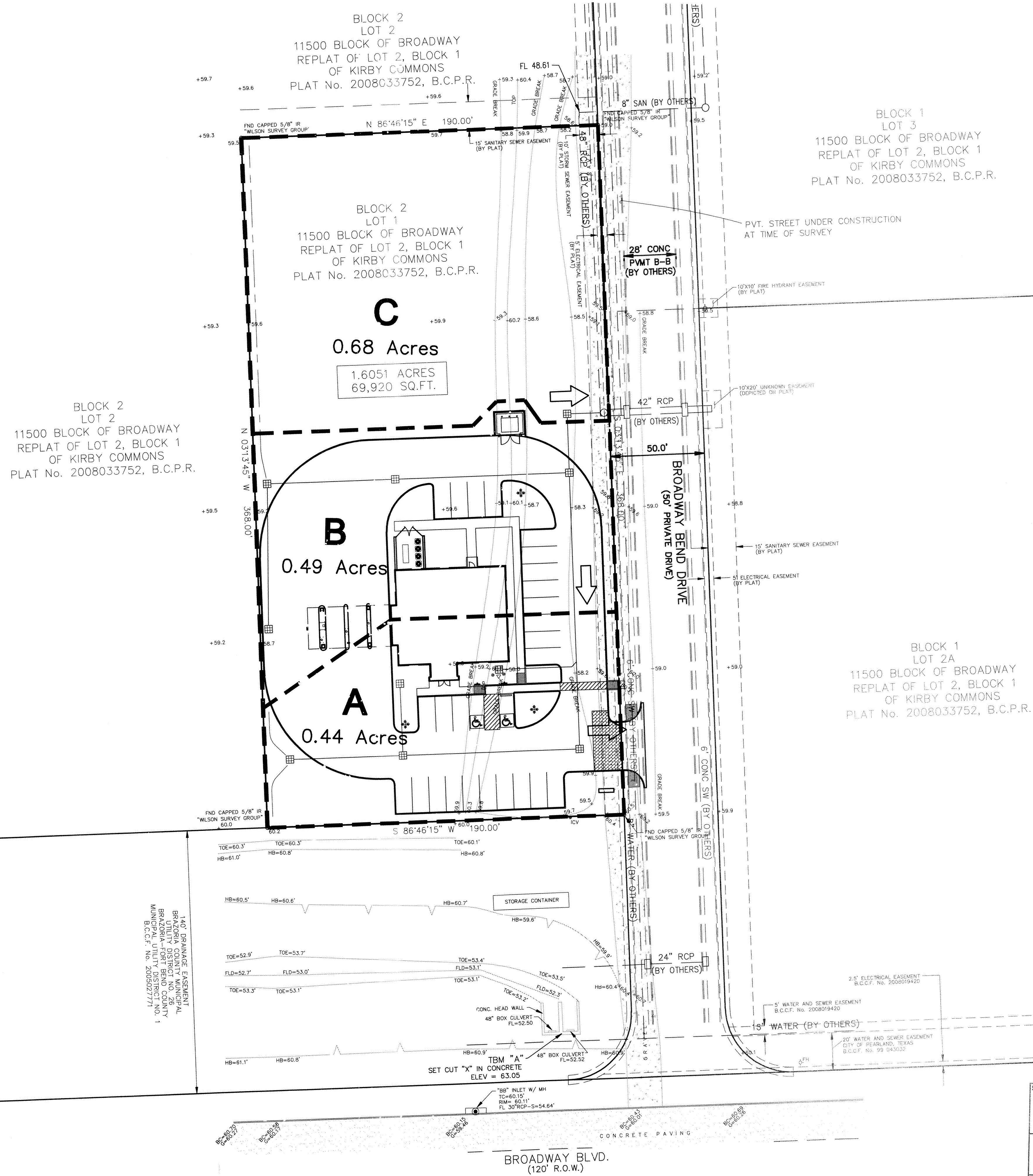
410 Asbury Street
 Houston, Texas 77007
 713.426.3477 office/fox
 713.301.4922 cellular
 wdengineering.com



SHADOW CREEK RANCH
 2940 BROADWAY BEND DR
 PEARLAND, TX 77584

**DRAINAGE AREA MAP
 AND CALCULATIONS**

C1.5



DETENTION SUMMARY
 DETENTION FOR THIS DEVELOPED SITE IS PROVIDED OFF SITE AS REQUIRED IN THE SHADOW CREEK RANCH MASTER DRAINAGE PLAN AND APPROVED BY BRAZORIA DRAINAGE DISTRICT NUMBER 4 IN AUGUST 2008.

LEGEND
 → 100 YEAR FLOW DIRECTION

SL1039, Moody National Bank
 Rainfall Frequency in Years: 3, City of Pearland Drainage Manual

Area No	Area A (acres)	Total Area A _{total} (acres)	Runoff Coefficient C	Sum of C*A	Time of Conc T _c (min)	Intensity i (in/hr)	Sum of Flows O (cfs)	Reach Length L (ft)	Diameter or Rise D (in)	Slope m (%)	Manning's n	Design Capacity Q _{design} (cfs)	Design Velocity V _{design} (fps)
A	0.44	0.44	0.90	0.40	18.65	5.00	1.98	230	12	0.441	0.013	2.36	3.00
B	0.49	0.93	0.90	0.84	19.80	4.90	4.14	36	18	0.256	0.013	5.30	3.00
C	0.68	1.61	0.90	1.45	19.99	4.80	7.08	20	24	0.174	0.013	9.41	3.00

Date: May 05, 2009
 File: C:\MO Engineering\Projects\SL1039\1039.dwg