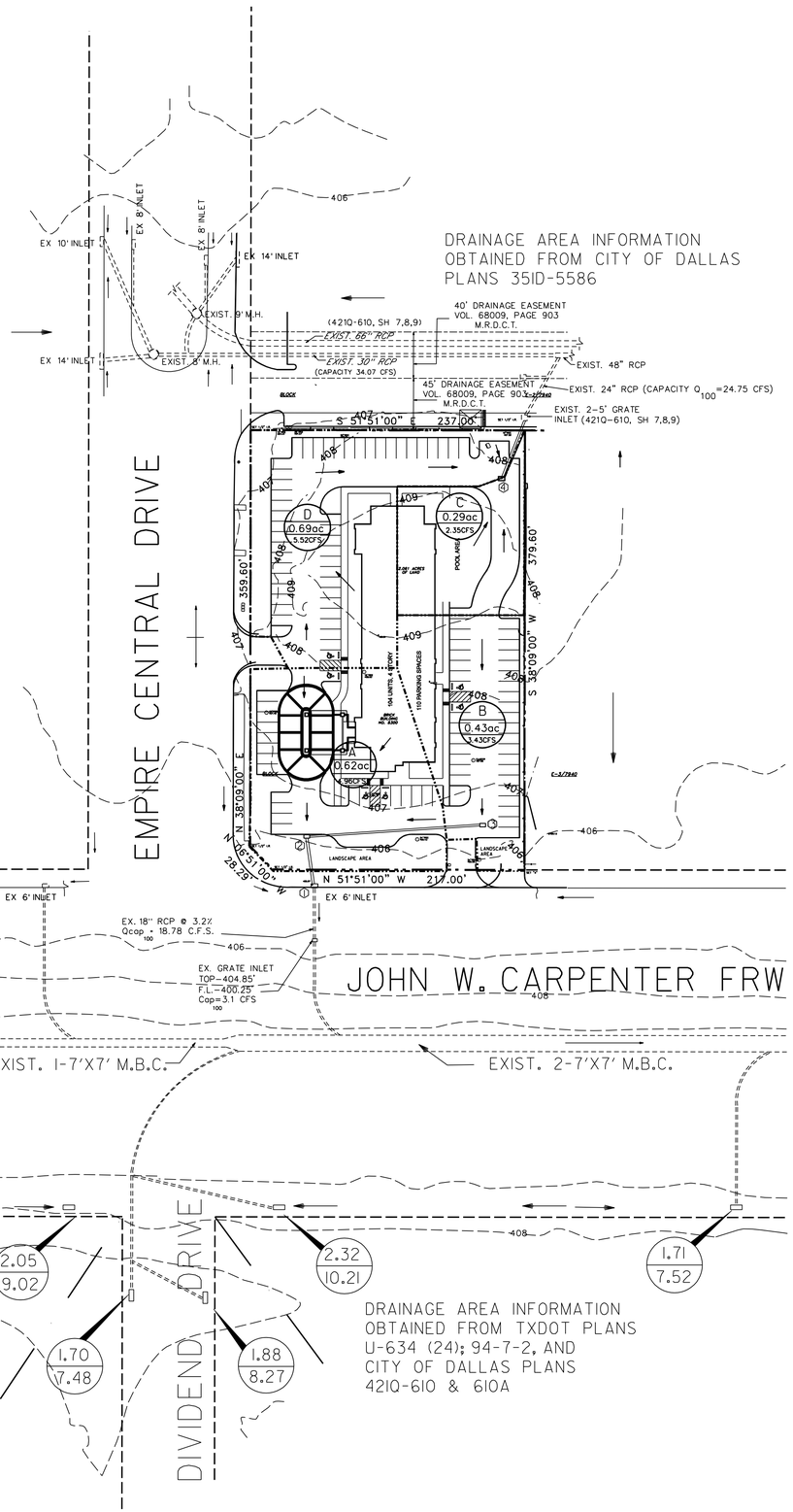


HYDRAULIC COMPUTATIONS FOR ON-SITE STORM DRAIN SYSTEM

Line Designation	Runoff Collection Point (inlet or Manhole) US* Sta.	DS Sta.	Area Drained	lateral Design Flow (cfs)	Cumm Pipe Design Flow (cfs)	Pipe Diameter (in)	Slope %	Manning's "n" **	Pipe Capacity (cfs)	Pipe Area (sf)	Flow Velocity (fps)
	** Manning's Coef (n) for RCP = 0.013, PVC = 0.009										
			LINE A - NEAR DRAINAGE EASEMENT								
LINE A	0+52	0+00	C,D	8.72	8.72	18	2.50	0.013	16.61	1.77	9.4
			LINE B - NEAR FRONTAGE ROAD								
LINE B	1+93	0+41	B	3.43	3.43	18	0.55	0.009	11.25	1.77	6.4
LINE B	0+41	0+00	B,A	4.96	8.39	21	0.51	0.013	11.32	2.41	4.7
LINE A -	EX. 24" RCP LATERAL (DRAINAGE EASEMENT/PARKING LOT)					24	1.20	0.013	24.75	3.14	
	EX. 30" RCP (EMPIRE CENTRAL)					30	0.70	0.013	34.30	4.91	
	EXIST. Q100 CARRIED PER 351D-5586 PLANS = 23.91 C.F.S.+8.72 (LINE A) = 32.63 C.F.S.										
	AT LINE B - CAPACITY OF EXIST. 18" RCP LATERAL @3.2% SLOPE IN FRONTAGE RD. = 18.78 CFS										

D. A. LABEL	D. A. ACRE	RUN-OFF COFF. 'C'	Tc MIN.	I_{100} IN/HR	Q_{100} C.F.S.	COMMENTS
A	0.62	0.90	10	8.88	4.96	TO INLET 2.1
B	0.43	0.90	10	8.88	3.43	TO INLET 3
C	0.29	0.90	10	8.88	3.20	TO INLET 4
D	0.69	0.90	10	8.88	5.52	TO INLET 4

LEGEND

- B / 0.43ac / 3.43CFS — D.A. DESIGNATION, AREA ACRES, RUNOFF
- DIRECTION OF FLOW
- DRAINAGE SUB DEVIDE LINE
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- 409 — OFF-SITE EXIST. CONTOUR

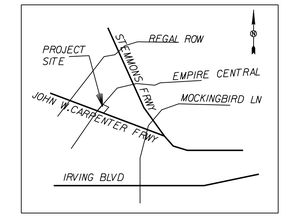
B.M.

1. A SQUARE FOUND ON TOP OF CURB CENTER OF A STORM SEWER INLET AT "ENTERPRISE-RENT-A-CAR", EAST SERVICE ROAD OF JOHN CARPENTER FRWY ELEVATION=404.52'

2. BRASS DISC STAMPED "CITY OF DALLAS SURVEY MARKER" ELEVATION=405.07'

311T-7811

SCALE: 1" = 60'



LOCATION MAP (NTS)

CAUTION ! ! !
Underground Gas in area.
Contractor to verify exact location and depth prior to construction. Contact Atmos Gas 48 hours prior to construction.
Phone # 1-800-344-8377

CAUTION ! ! !
Overhead & Underground Electrical Cable in area. Contractor to verify exact location & depth. Contact TXU Electric 48 hours prior to construction.
Phone # 1-800-233-2133

UTILITY LOCATION NOTE:
THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND BASED ON EXISTING PLANS AND DATA FURNISHED BY UTILITY COMPANIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES THAT MAY CONFLICT WITH CONSTRUCTION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE, AT NO ADDITIONAL COST.

CALL BEFORE YOU DIG!
TEXAS ONE CALL PARTICIPANTS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST - STOP CALL
Texas One Call System
1-800-DIG-TESS

DEVELOPER:

OWNER:
VICTOR ABRAHAM
2730 STEMMONS FREEWAY, SUITE 310
DALLAS, TEXAS 75207

La Quinta Inn & Suites

8300 JOHN CARPENTER FRWY
DALLAS, TEXAS

YG CONSULTANTS
15043 DANEWAY DR.
FRISCO, TX 75035
TEL: 972-890-8955
FAX: 972-390-9599

REVISIONS	DATE

SEAL

DWG. TITLE:
PROP. DRAINAGE AREA PLAN

PROJECT #: 80508 JOB#
DESIGN BY: YG CONSULTANTS
PROJECT COORD:
CHECKED BY: YP
DRAWN BY: PP
DATE: 12/10/2008

6 OF 11
SHEET NUMBER

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