

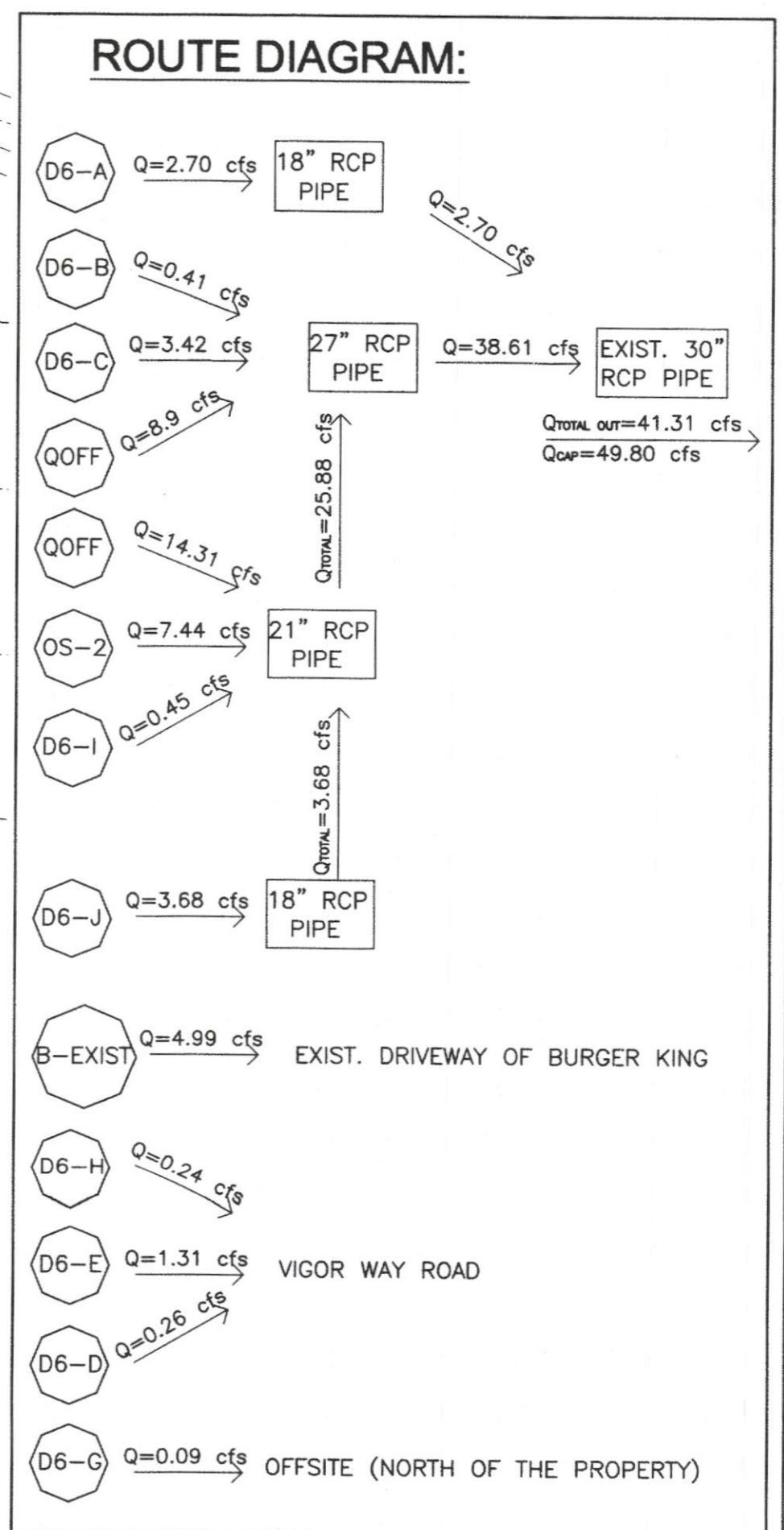
PRE-DEVELOPMENT RUNOFF CALCULATIONS

CATCHMENT AREA ID	DIRECT CONTRIBUTING Areas, Acres	RUNOFF COEFF. C	CONC. TIME Tc, min.	RAINFALL INTENSITY 1100, in/hr	DIRECT RUNOFF Q100, cfs	REMARKS
D6-A	0.306	0.30	10	9.80	0.90	SHEET FLOW ACROSS SITE TO EXIST. INLET
D6-B	0.047	0.30	10	9.80	0.14	SHEET FLOW ACROSS SITE TO EXIST. INLET
D6-C	0.388	0.30	10	9.80	1.14	SHEET FLOW ACROSS SITE TO EXIST. INLET
D6-D	0.018	0.30	10	9.80	0.05	SHEET FLOW ACROSS SITE TO EXIST. ROAD
D6-E	0.145	0.30	10	9.80	0.43	SHEET FLOW ACROSS SITE TO EXIST. ROAD
D6-F	0.321	0.90	10	9.80	2.83	SHEET FLOW ACROSS SITE TO EXIST. INLET
D6-G	0.024	0.30	10	9.80	0.07	SHEET FLOW ACROSS SITE TO EXIST. INLET
D6-H	0.027	0.30	10	9.80	0.08	SHEET FLOW ACROSS EXIST. PAVEMENT TO EXIST. ROAD
D6-I	0.051	0.30	10	9.80	0.15	SHEET FLOW ACROSS SITE TO EXIST. INLET
D6-J	0.417	0.30	10	9.80	1.23	SHEET FLOW ACROSS SITE TO EXIST. INLET
C-EXIST	0.920	0.90	10	9.80	8.11	SHEET FLOW ACROSS GOODYEAR SITE TO EXIST. FLUME
B-EXIST	0.566	0.90	10	9.80	4.99	SHEET FLOW ACROSS BURGER KING SITE TO EXIST. ROAD
OS-2	0.844	0.90	10	9.80	7.44	SHEET FLOW ACROSS OFFSITE TO SITE
					14.31	SHEET FLOW FROM WENDY'S EXIST. CONC. FLUME TO SITE
					8.90	SHEET FLOW ACROSS WENDY'S PARKING LOT TO SITE

POST-DEVELOPMENT RUNOFF CALCULATIONS

CATCHMENT AREA ID	DIRECT CONTRIBUTING Areas, Acres	RUNOFF COEFF. C	CONC. TIME Tc, min.	RAINFALL INTENSITY 1100, in/hr	DIRECT RUNOFF Q100, cfs	REMARKS
D6-A	0.306	0.90	10	9.80	2.70	SHEET FLOW ACROSS SITE TO PROP. CURB INLET
D6-B	0.047	0.90	10	9.80	0.41	SHEET FLOW ACROSS WENDY'S PARKING & SITE TO PROP. CURB CUT
D6-C	0.388	0.90	10	9.80	3.42	SHEET FLOW ACROSS SITE TO PROP. CURB INLET
D6-D	0.018	0.90	10	9.80	0.16	SHEET FLOW ACROSS SITE TO EXIST. ROAD
D6-E	0.145	0.90	10	9.80	1.28	SHEET FLOW ACROSS SITE TO EXIST. ROAD
D6-F	0.321	0.90	10	9.80	2.83	SHEET FLOW ACROSS EXIST. PAVEMENT TO EXIST. ROAD
D6-G	0.024	0.90	10	9.80	0.21	SHEET FLOW ACROSS SITE TO EXIST. ROAD
D6-H	0.027	0.90	10	9.80	0.24	SHEET FLOW ACROSS LANDSCAPE TO EXIST. ROAD
D6-I	0.051	0.90	10	9.80	0.45	SHEET FLOW ACROSS LANDSCAPE TO PROP. DROP INLET
D6-J	0.417	0.90	10	9.80	3.68	SHEET FLOW ACROSS SITE TO PROP. CURB INLET
C-EXIST	0.920	0.90	10	9.80	8.11	SHEET FLOW ACROSS GOODYEAR SITE TO EXIST. FLUME
B-EXIST	0.566	0.90	10	9.80	4.99	SHEET FLOW ACROSS BURGER KING SITE TO EXIST. ROAD
OS-2	0.844	0.90	10	9.80	7.44	SHEET FLOW ACROSS OFFSITE TO PROP. DROP INLET
					14.31	SHEET FLOW FROM WENDY'S EXIST. CONC. FLUME TO PROP. DROP INLET
					8.90	SHEET FLOW FROM WENDY'S PARKING LOT TO PROP. CURB CUT

NOTE:
 FOR DRAINAGE AREA CALCULATIONS, PLEASE REFER ALSO TO SHEET C3.1 (DRAINAGE AREA MAP) OF RIDGE ROAD TOWN CENTER, DATED 02-08-06, AND PLATE NO. 4 OF WENDY'S DRAINAGE PLAN DATED 6-23-95.

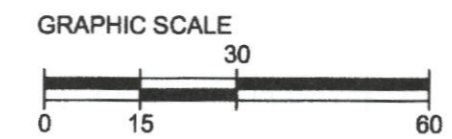


- GENERAL NOTES:**
- A GRADING PERMIT MUST BE OBTAINED FROM CITY OF ROCKWALL PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
 - EROSION CONTROL WILL BE REQUIRED DURING ALL PHASES OF CONSTRUCTION EROSION CONTROL MEASURES PER ROCKWALL CITY, TEXAS STANDARD REQUIREMENTS.
- SITE WORK GRADING PREPARATION**
- INCLUDE ALL DEMOLITION AS REQUIRED FOR CONSTRUCTION.
 - SUBGRADE PREPARATION: SURFACE VEGETATION AND ANY FOREIGN MATERIALS SHOULD BE STRIPPED AND REMOVED PRIOR TO CONSTRUCTION OF THE PAD AND PAVEMENTS. IS ESTIMATED THAT THIS MAY CONSIST OF STRIPPING BETWEEN 3 TO 6 INCHES OF EXISTING SOILS AT THE SITE.
 - DRAINAGE: THE UPPER PORTION OF UTILITY EXCAVATIONS SHOULD BE BACKFILLED WITH PROPERLY COMPACTED CLAYEY SOILS TO MINIMIZE INFILTRATION OF SURFACE WATER. A CLAY "PLUG" SHOULD BE PROVIDED ON THE EXTERIOR OF THE BUILDING TO PREVENT WATER FROM GAINING ACCESS TO THE SUBGRADE BENEATH THE STRUCTURE. ALL GRADES MUST BE ADJUSTED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE WHERE PAVING ADJUTS THE STRUCTURE, CARE SHOULD BE TAKEN THAT THE JOINT IS PROPERLY SEALED AND MAINTAINED. GROUND DRAINS SHOULD DISCHARGE ON PAVEMENT OR BE EXTENDED AWAY FROM THE STRUCTURE IDEALLY.
 - WASTE CUT ON UNUSED PORTION OF LOT LEAVE SMOOTH IN MOWABLE CONDITION.
 - CUT PAD AS REQUIRED FOR 2.5' OF SELECT FILL MATERIAL. CONSTRUCTION PAD SHOULD EXTEND AT LEAST 5 FEET OUTSIDE THE PERIMETER BEAMS.
 - THE EXPOSED SUBGRADE SHOULD BE SCARIFIED TO A MINIMUM DEPTH OF SIX INCHES, WATER AS REQUIRED AND RECOMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTM D-698 (STANDARD PROCTOR TEST) AT A MOISTURE CONTENT BETWEEN OPTIMUM AND 3 POINT ABOVE OPTIMUM.
 - IN FILL SECTIONS SUPPORTING PAVEMENTS, FLATWORK AND DISPLAY AREA THE FILL AND SUBGRADE SHOULD BE COMPACTED TO A MINIMUM DENSITY OF NINETY-FIVE (95) PERCENT OF ASTM D-698 TO SETTLEMENT. ANY CLAY FILL MATERIALS BELOW PAVEMENTS OR FLATWORK SHOULD NOT BE COMPACTED OVER ONE HUNDRED (100) PERCENT DENSITY. FILLS SHOULD BE COMPACTED IN MAXIMUM 6 TO 8 INCHES LOOSE FILL.
 - SELECT FILL: THE MATERIAL USED AS SELECT FILL CONSIST OF CLAYEY SAND, FREE OF ORGANIC MATERIALS AND HAVE A PLASTICITY INDEX BETWEEN 4 AND 15, A LIQUID LIMIT OF 35 OR LESS, AND BETWEEN 25 AND 45 PERCENT PASSING A NO. 200 SIEVE. THE AREA SHOULD THEN BE FILLED WITH SELECT FILL SOLES OF 6 TO 8 INCHES LOOSE LENTS AND COMPACTED BETWEEN 95 TO 100 PERCENT OF MAXIMUM DRY DENSITY WITH MOISTURE CONTENT BETWEEN OPTIMUM AND 3 PERCENT POINT ABOVE OPTIMUM.
 - PERFORM FIELD DENSITY TESTS TO VERIFY COMPACTION AT A FREQUENCY OF ONE TEST PER ONE FOOT OF FILL FOR EVERY 2500 SQ. FT., PER LIFT, IN THE AREA OF ALL COMPACTED FILL.
 - SAND SHOULD NOT BE USED AS A LEVELING COURSE UNDER FLOOR SLAB AND PAVEMENT, SINCE IT PROVIDES READY PATH FOR MOISTURE TO GET IN.
 - POSITIVE DRAINAGE MUST BE PROVIDED AWAY FROM THE STRUCTURE TO PREVENT THE PONDING OF WATER IN THE SELECT FILL.
 - CARE MUST BE TAKEN THAT BACKFILL AGAINST THE EXTERIOR FACE OF GRADE BEAMS IS PROPERLY COMPACTED ON-SITE CLAY. THE SELECT FILL SHOULD NOT EXTEND OUTSIDE THE LIMITS OF THE STRUCTURE.
 - THE NEED TO LIME STABILIZE WILL BE DETERMINED BY TESTING FOLLOWING SUBGRADE EXCAVATION DEPENDING ON SOIL TYPE AND WEATHER CONDITION.
 - ALL LABORATORY TESTING TO BE AT OWNER'S EXPENSE. SEQUENCE TO BE DETERMINED BY G.C., OWNER AND OWNER'S ENGINEER.
 - ALL FILL TO BE COMPACTED TO 95% STANDARD PROCTOR USING SHEEPS FOOT ROLLER.
 - SPECIFICATIONS AND STANDARD DETAILS SHALL BE IN ACCORDANCE WITH NCTCOG 3RD EDITION WITH CITY OF ROCKWALL ADDENDUM/REVISIONS.

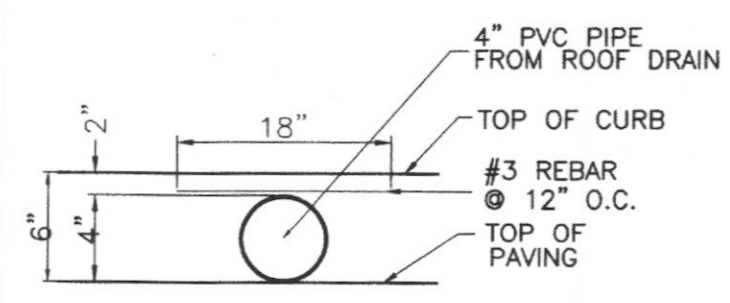
LEGEND

SANITARY SEWER MANHOLE SSMH	⊙	500	EXISTING CONTOURS
STORM SEWER MANHOLE MH	⊙	500	PROPOSED CONTOURS
CLEAN OUT CO	⊙	SS	PROPOSED SANITARY SEWER PIPE
FIRE HYDRANT FH	⊙	E_SS	EXISTING SANITARY SEWER PIPE
POWER POLE PP	⊙	W	PROPOSED WATER LINE
TELEPHONE BOX TB	⊙	E_W	EXISTING WATER LINE
WATER METER WM	⊙	E	PROPOSED POWER LINE
GATE VALVE GV	⊙	E_E	EXISTING POWER LINE
LIGHT POLE	⊙	T	PROPOSED TELEPHONE LINE
IRRIGATION SPRINKLER	⊙	E_T	EXISTING TELEPHONE LINE
HEAD LOCATION	⊙	R.O.W.	PROPOSED GAS LINE
VAN ACCESSIBLE HANDICAP PARKING	♿	S.I.R.	EXISTING GAS LINE
SIGN LOCATION	⊙	E_GAS	EXISTING GAS LINE
RIGHT OF WAY	—	E_J	PROPOSED STORM SEWER PIPE
SET IRON ROD	⊙	S.J.	EXISTING STORM SEWER PIPE
EXPANSION JOINT	⊙	C.J.	EXISTING STORM SEWER PIPE
SAW JOINT	⊙	GW	PROPOSED GUY WIRE
CONSTRUCTION JOINT	⊙	E_GW	EXISTING GUY WIRE
EXIST. LIGHTPOLE	⊙	DE/UE	EXISTING GUY WIRE
DRAINAGE & UTILITY EASEMENT	—	—	—
TRAFFIC FLOW ARROW	→	OHEL	OVERHEAD ELECTRICAL LINE
FOUND IRON ROD	⊙	F.I.R.	EXISTING FIBER OPTICS CABLE
GAS METER	⊙	GM	EXISTING FIBER OPTICS CABLE
EXIST. WATER VALVE	⊙	—	—
TOP OF PAVING	TP	—	—
TOP OF WALK	TW	—	—
TOP OF CURB	TC	—	—
SPOT GRADE	G	—	—

01 GRADING AND DRAINAGE PLAN
 SCALE: 1"=30'-0"



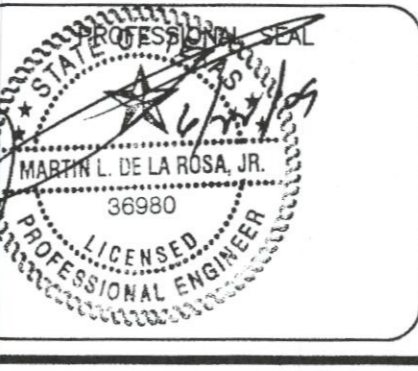
02 SECTION E (TYP.)
 SCALE: NONE



723 WEST MAIN STREET
 SUITE 201
 GRAND PRAIRIE
 TEXAS 75050
 TEL: 469 733 1140
 FAX: 469 733 1141

OWNER / DEVELOPER
PASTEM CORP.
 PO Box 600433, Dallas, TX 75360
 Contact Person: T. DAYALJI
 tekdayalji@aol.com

CIVIL ENGINEER:
MLD ENGINEERING SOLUTIONS, INC.
 MARTIN L. DE LA ROSA, P.E., F. ASCE
 President
 2121 W. Airport Freeway, Suite 220 Irving, TX 75062
 (972) 258-0484 (972) 672-9347 Fax: (972) 258-1287
 email: mldelar661@aol.com



COMFORT INN & SUITES
 VIGOR WAY,
 ROCKWALL, TX 75087
 1.74 AC.
 BY CHOICE HOTELS

PROJECT NUMBER: 023-08
 DATE: [] REVNO: [] DESCRIPTION: []
 DRAWN BY: []
 CHECKED BY: []
 ISSUE DATE: 032609

DRAWING TITLE
**PROPOSED 4 STORY HOTEL
 COMFORT INN & SUITES
 GRADING & DRAINAGE PLAN**

DRAWING NUMBER
C3
 PLOT DATE
 062209