

**PAVING NOTES:**

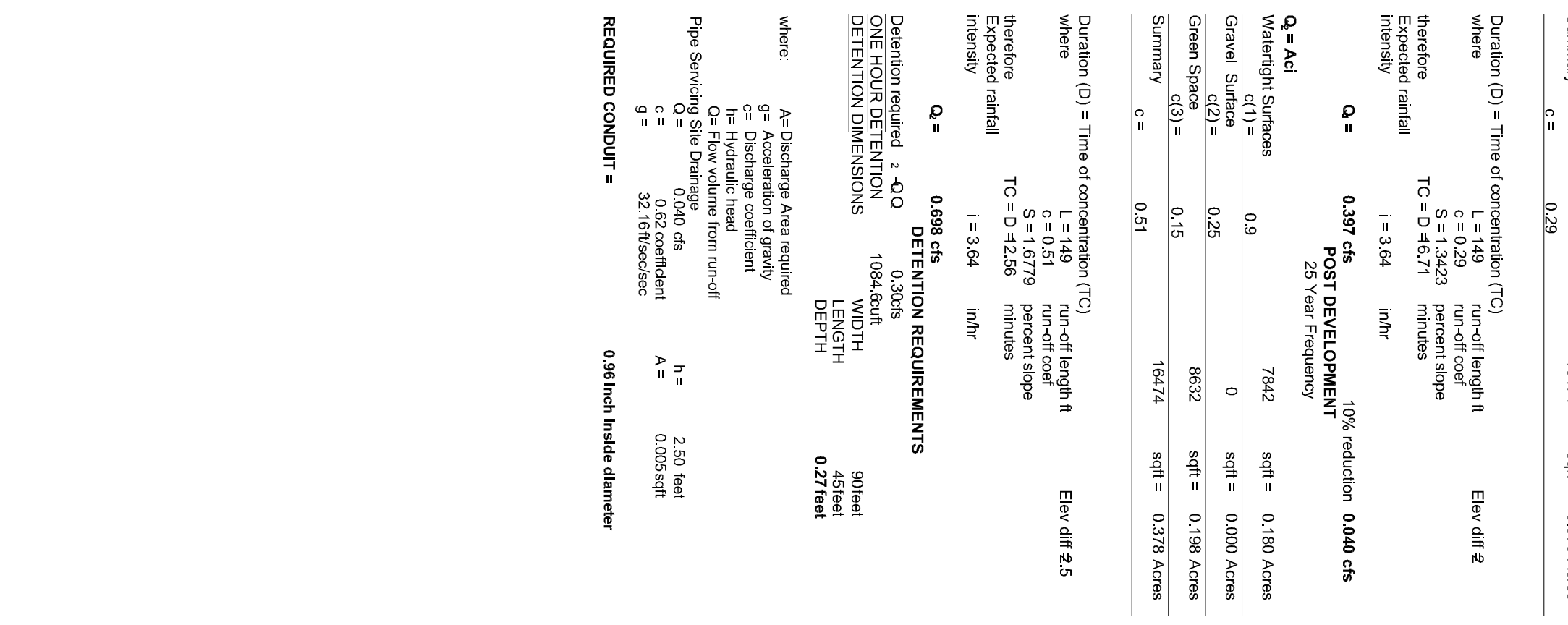
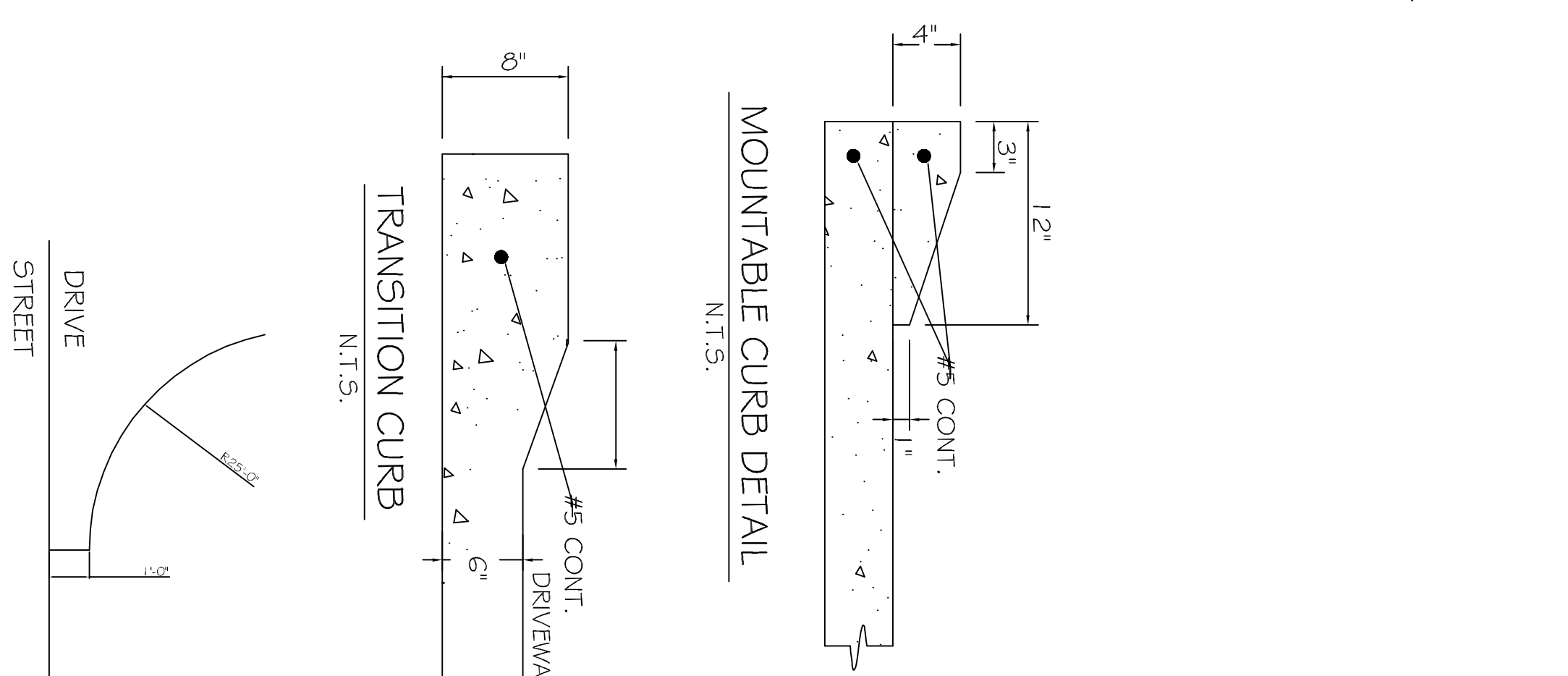
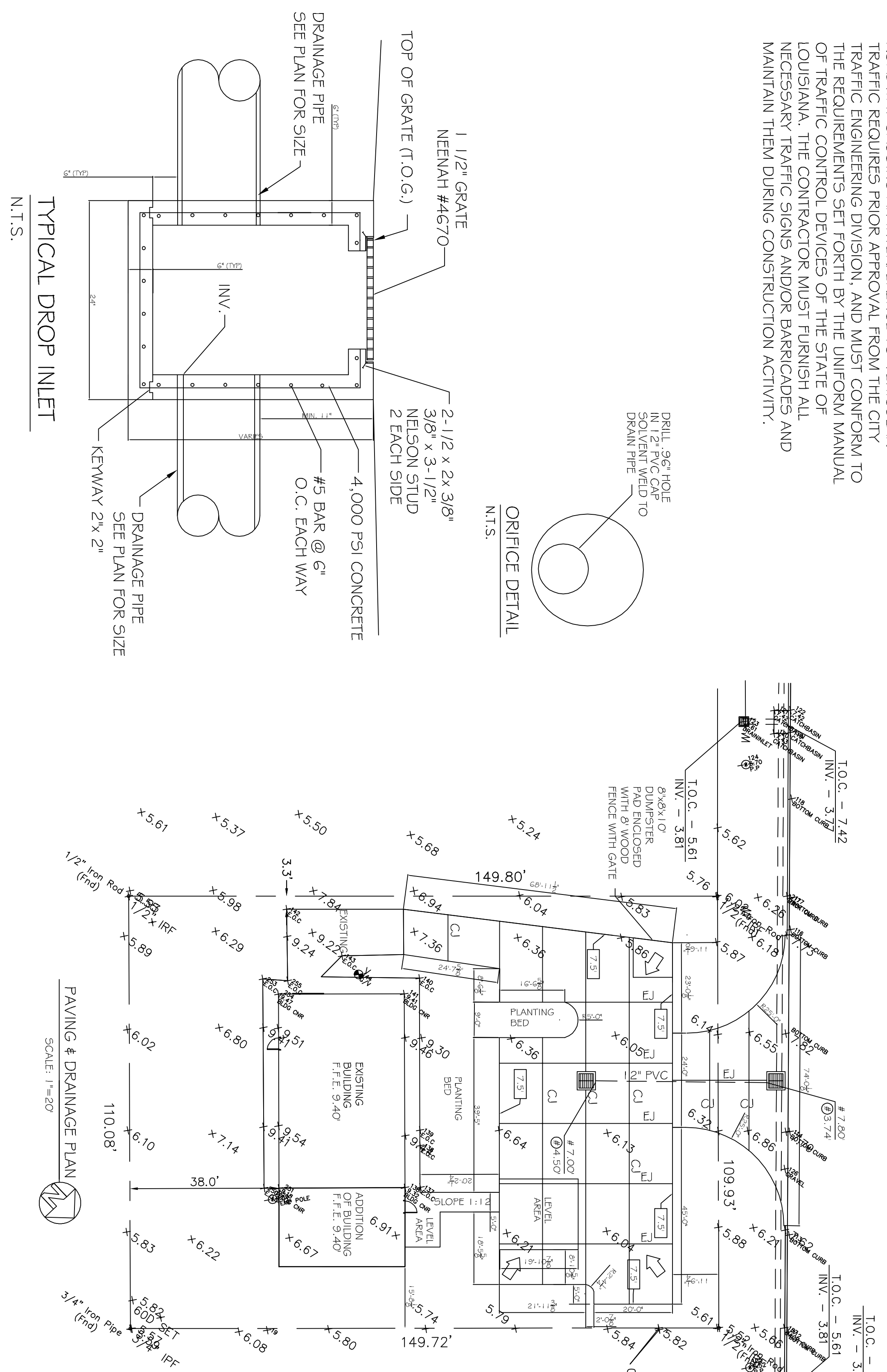
- 1) ALL NEW CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS AND A MINIMUM THICKNESS OF 5". CONCRETE MIX SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF ASTM C-150 TYPE 1.
- 2) CONCRETE PAVING THICKNESS SHALL VARY AS FOLLOWS:
  - a) APRONS = 7" THICKNESS
  - b) DRIVEWAYS = 6" THICKNESS
  - c) PARKING AREAS = 5" THICKNESS
- 3) ALL REINFORCING STEEL SHALL MEET ASTM-A615 (GRADE 60).
- 4) ALL REINFORCING STEEL SHALL BE SECURELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING CONCRETE PLACEMENT. ALL CONTROL AND EXPANSION JOINTS SHALL BE LOCATED AND INSTALLED AS SHOWN ON THE PAVING PLAN AND IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- 5) ALL SUB GRADE FILL SHALL BE SELECT GRANULAR MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY IN A MAXIMUM OF 6" LIFTS.
- 6) CONTRACTOR SHALL CONTACT THEIR REGULATORY DEPARTMENT OF ENGINEERING PRIOR TO CONDUCTING ANY WORK.
- 7) ANY WORK WITHIN THE ROADWAY OR ADJACENT TO THE ROADWAY CAUSING AN INTERFERENCE TO VEHICULAR TRAFFIC REQUIRES PRIOR APPROVAL FROM THE CITY TRAFFIC ENGINEERING DIVISION, AND MUST CONFORM TO THE REQUIREMENTS SET FORTH BY THE UNIFORM MANUAL OF TRAFFIC CONTROL DEVICES OF THE STATE OF LOUISIANA. THE CONTRACTOR MUST FURNISH ALL NECESSARY TRAFFIC SIGNS AND/OR BARRICADES AND MAINTAIN THEM DURING CONSTRUCTION ACTIVITY.

**LEGEND**

- PROPERTY LINE
- SETBACK LINE
- BUFFER ZONE LINE
- UTIL. EASEMENT LINE
- CONTROL JT. 10x1.5'
- EXPANSION JT. 30x45'
- ⇨ SHEET FLOW ARROW
- ① 0.00' - INVERT ELEVATION
- ② 0.00' - TOP OF GRATE ELEVATION
- ③ 0.00' - NEW ELEVATION

**DRAINAGE PLAN NOTES:**

1. ELEVATIONS SHOWN ARE M.S.L.
2. FIELD VERIFY ALL ELEVATIONS AND DRAINAGE SYSTEM PLACEMENT PRIOR TO START OF WORK.
3. THERE IS NO EVIDENCE OF EXISTING OFF-SITE FLOW CROSSING THE PROPERTY.



**PROJECT:** MOREAU'S THERMAL SERVICE  
**FORMULAS USED:** RATIONAL METHOD: Q=Aci  
**STORMWATER RUNOFF CALCULATIONS**

where:  
 Q= Peak discharge of watershed in cubic feet per second (cfs) due to maximum storm runoff from watershed in acres.  
 A= Area of watershed in acres.  
 C= Coefficient of runoff (C)  
 I= Intensity of rainfall in inches per hour based on concentration time, [I]  
 [I] TC=

where:  
 TC= Time of concentration= time required for rain falling at most remote point to reach the outlet of the watershed.  
 C= Coefficient based on conditions shown.  
 S= Percent slope of watershed from outlet to watershed divide  
 25 Year Frequency

Q = Aci	Waterlight Surfaces	0.9	2616	sqft = 0.080 Acres
	Gravel Surfaces	0.25	3140	sqft = 0.072 Acres
	Green Surfaces	0.15 <th>10716</th> <th>sqft = 0.246 Acres</th>	10716	sqft = 0.246 Acres
	Summary		16474	sqft = 0.378 Acres
			0.29	

Duration (D) = Time of concentration (TC)  
 where:  
 S = 0.29 percent slope  
 TC = 16.71 minutes  
 I = 3.64 in/hr

Q = 0.397 cfs  
 25 Year Frequency

10% reduction 0.40 cfs  
 25 Year Frequency

Q = Aci	Waterlight Surfaces	0.9	7642	sqft = 0.180 Acres
	Gravel Surfaces	0.25 <th>8632</th> <th>sqft = 0.200 Acres</th>	8632	sqft = 0.200 Acres
	Green Surfaces	0.15 <th>16474</th> <th>sqft = 0.378 Acres</th>	16474	sqft = 0.378 Acres
	Summary		0.51	

Duration (D) = Time of concentration (TC)  
 where:  
 S = 1.49 percent slope  
 TC = 4.28 minutes  
 I = 3.64 in/hr

Q = 0.688 cfs  
 25 Year Frequency

DETENTION REQUIREMENTS  
 Detention required = 400  
 1064 W/TH  
 0.328 L/TH  
 0.27 feet

where:  
 A= Discharge area required  
 g= Acceleration of gravity  
 h= Hydraulic head  
 Q= Flow volume from runoff  
 Q = 0.040 cfs  
 c = 0.62 coefficient  
 g = 32.16 ft/sec<sup>2</sup>

REQUIRED CONDUIT = 6" finish inside diameter

REVISIONS		DATE
#	DESCRIPTION	

**MOREAU'S THERMAL SERVICE**  
 SHANE MOREAU  
 136 HOWZE BEACH RD  
 SLIDELL, LA 70458

JOB No: 2127 DATE: 03-20-2013  
 DRAWN BY: JCT CHECKED BY: CD

**DAMMON ENGINEERING, INC.**  
 Architects & Engineers

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PAVING AND DRAINAGE PLAN  
 SHEET No: 03 OF 11  
**C3**