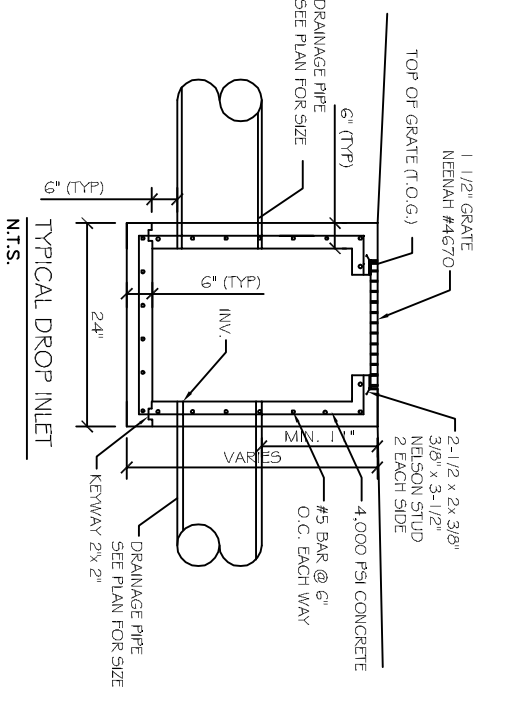
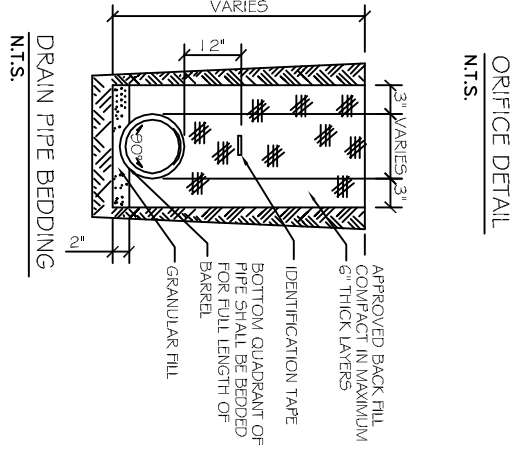
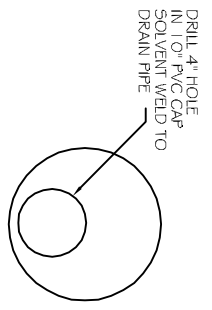


DRAINAGE PLAN
SCALE: 1/8" = 1'-0"



- DRAINAGE NOTES:**
- 1) DRAIN PIPE & FITTINGS WITHIN PROPERTY LINE SHALL BE POLYVINYL CHLORIDE PLASTIC PIPE, MEETING CLASS 100 C-900 PVC.
 - 2) ELEVATIONS SHOWN ARE M.S.L.
 - 3) FIELD VERIFY ALL ELEVATIONS AND DRAINAGE SYSTEM.
 - 4) DOWN SPOUTS SHALL FLOW INTO SUB-SURFACE DRAINAGE SYSTEM.
 - 5) THERE IS NO EVIDENCE OF EXISTING OFF-SITE FLOW CROSSING THE PROPERTY. NEW DRAINAGE CALCULATIONS ARE DETERMINED ACCORDINGLY.

LEGEND

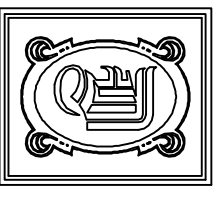
- PROPERTY LINE
- SETBACK

- NEW DROP INLET w/TEMP. SILT FENCE
- # 0.007 - NEW ELEVATION
- # 0.007 - INVERT ELEVATION
- # 0.007 - TOP OF GRATE ELEVATION
- - - NEW DRAINAGE PIPE
- - - EXISTING DRAINAGE PIPE
- SHEET FLOW DIRECTION

PAUL REES OFFICE BUILDING

PROJECT:	PAUL REES OFFICE BUILDING		
STORMWATER RUN OFF CALCULATIONS - RATIONAL METHOD	PRIOR DEVELOPMENT 25 Year Frequency		
Q ₁ = Aci	c(1) = 0.9	sqft = 0	0.000 Acres
Watertight Surfaces	c(2) = 0.25	sqft = 0	0.000 Acres
Gravel Surface	c(3) = 0.15	sqft = 10806	0.248 Acres
Green Space	c = 0.15	sqft = 10806	0.248 Acres
Summary			
Duration (D) = Time of concentration (TC)	TC = .7039(L ^{0.3917}) ^{0.1309} / (S ^{0.1985}) ^{0.1309} = 1.140		
where	L = 140 S = 1.0000 TC = D = 21.69 I = 3.64		
therefore and from Rainfall Intensity Table	Q ₁ = 0.135 cfs	10% reduction	0.014 cfs
Q ₂ = Aci	POST DEVELOPMENT 25 Year Frequency		
Watertight Surfaces	c(1) = 0.9	sqft = 6028	0.136 Acres
Gravel Surface	c(2) = 0.25	sqft = 0	0.000 Acres
Green Space	c(3) = 0.15	sqft = 4780	0.110 Acres
Summary	c = 0.57	sqft = 10806	0.248 Acres
D = Time of concentration (TC)	TC = .7039(L ^{0.3917}) ^{0.1309} / (S ^{0.1985}) ^{0.1309} = 1.140		
where	L = 122 S = 2.5410 TC = D = 12.16 I = 3.64		
therefore and from Rainfall Intensity Table	Q ₂ = 0.513 cfs		

DEFENTION REQUIREMENTS			
DEFENTION REQUIRED ONE HOUR DEFENTION DETENTION DIMENSIONS	Q ₂ - Q ₁	0.38 cfs	
		1360.0 cuft	72 feet
			40 feet
			0.47 feet
DISCHARGE END AREA REQUIREMENTS			
Q = CA(2gh) ^{1/2}	where Q is allowable run off	Q = 0.014 cfs	
Allowable run off		c = 0.62 coefficient	
Friction loss factor		g = 32.16 ft/ft/sec	
Acceleration		h = 3.00 feet	
Height above invert		A = 0.002 sqft	
End area			
REQUIRED CONDUIT =	USE	0.54 inch diameter	4 inch orifice



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DRAINAGE PLAN

REV: 9-29-11

SCALE: AS NOTED

JOB#: 2104

DATE: 05-20-11

SHEET 4

C-3

OF 20