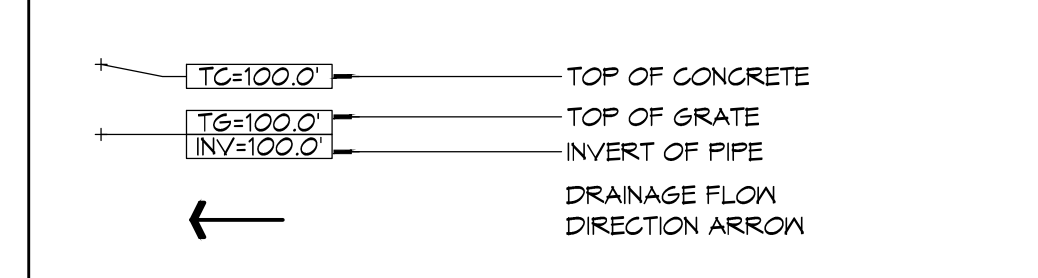


### GENERAL SITE DRAINAGE NOTES

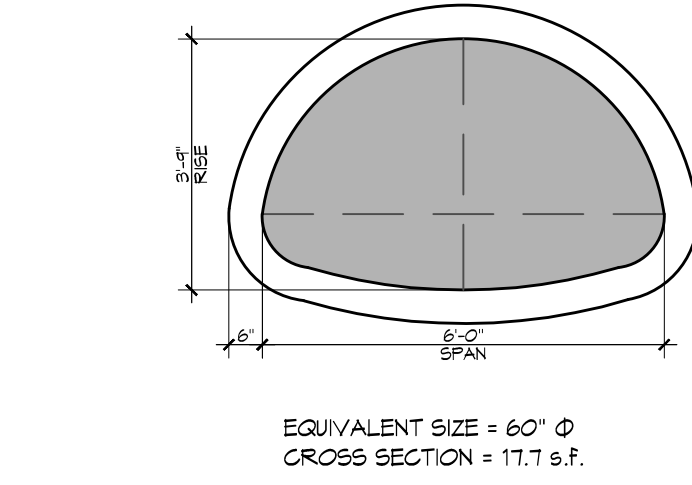
- DRAIN PIPE(S) MUST BE THE BELL AND SPIGOT TYPE WITH 10' RING RUBBER GASKETS. THE BELLS OF THE PIPES SHALL BE LAID UPSTREAM. ALL JOINTS SHALL BE WRAPPED WITH GEOTEXTILE FABRIC. ALL PIPES SHALL REQUIRE A 3" COMPACTED SAND OR LIMESTONE BASE.
- REMOVE DEBRIS AND CLEAN BOTTOM OF DITCHES DOWN 6" IN DEPTH - REPLACE ANY BROKEN/CRUSHED PIPES OR CULVERTS WITH SAME SIZE AND TYPE.
- DRAIN PIPE AND FITTINGS WITHIN PROPERTY LINE SHALL BE POLYVINYL CHLORIDE PLASTIC PIPE, MEETING CLASS 100 C-900 PVC.
- ELEVATIONS SHOWN ARE MSL.
- FIELD VERIFY ALL ELEVATIONS AND DRAINAGE SYSTEM PLACEMENT PRIOR TO START OF WORK.
- PROVIDE VERTICAL ELBOW AT DOWNSPOUTS FOR CONNECTION TO SUBSURFACE DRAINAGE WHERE INDICATED. ELBOW ID SHALL BE SIZED SUCH THAT THE DOWNSPOUT CAN BE INSERTED INTO THE PIPE OPENING WITHOUT DEFORMATION TO THE DOWNSPOUT.

### SITE DRAINAGE LEGEND



### STORM WATER RUN-OFF CALCULATIONS

Josephine St. Condo's			
STORM WATER RUN-OFF CALCULATIONS			
Formula used:			
[1] RATIONAL METHOD: $Q = CiA$			
where:	$Q$ = Peak discharge of water in cubic feet per second (cfs) due to maximum storm assumed.		
	$A$ = Area of watershed in acres.		
	$C$ = Coefficient of run-off [2].		
	$I$ = Intensity of rainfall in inches per hour based on concentration time [3].		
[4] T <sub>C</sub> :			
where:	$T_C$ = Time of concentration time required for rain falling at most remote point to reach discharge point.		
	$L$ = Run-off length in feet.		
	$S$ = Percent slope.		
	$K$ = Run-off coefficient based on conditions shown.		
	$N$ = Percent slope of pipe in ft/ft.		
PRIOR TO DEVELOPMENT			
10 Year Frequency			
$Q_1 = AiC$			
Asphalt Surfaces	$C(1) = 0.8$	0.000	Acres
Brick Pavers	$C(2) = 0.35$	0.000	Acres
Green Space	$C(3) = 0.15$	24.355	Acres
Summary	$C = 0.15$	24.355	Acres
Duration (D) = Time of concentration (T <sub>C</sub> )	$L = 141$	run-off length ft	Elev diff 1.2
where:	$C = 0.15$	run-off coeff	
	$S = 0.2324$	percent slope	
therefore	$T_C \cdot D = 20.12$	minutes	
Expected rainfall	$I = 3.14$	in/hr	
Intensity	$Q_1 = 0.283$	cfs	
POST DEVELOPMENT			
10 Year Frequency			
$Q_2 = AiC$			
Asphalt Surfaces	$C(1) = 0.8$	16.808	Acres
Brick Pavers	$C(2) = 0.35$	4.302	Acres
Green Space	$C(3) = 0.15$	3.145	Acres
Summary	$C = 0.10$	24.255	Acres
Duration (D) = Time of concentration (T <sub>C</sub> )	$L = 170$	run-off length ft	Elev diff 1.2
where:	$C = 0.10$	run-off coeff	
	$S = 0.1054$	percent slope	
therefore	$T_C \cdot D = 7.24$	minutes	
Expected rainfall	$I = 3.14$	in/hr	
Intensity	$Q_2 = 0.111$	cfs	
CAPTURE REQUIREMENTS			
Capture the 1st 1.25" of rainfall 1.25" OF A 10 YEAR STORM OVER 24-HR PERIOD			
Storage = 1.25" / 12" x 840' x 840' of Asphalt Surface	1750.0	cubi	or 19,000 gallons
Dimensions of Storage =	ADTH	35	feet
	LENGTH	140	feet
	DEPTH	3.57	feet
References:			
1. Chen, M.P. The Civil Engineering Handbook, 1989, Pg. 511, pg. 1038			
2. Steudt, Hugh E. Drainage for Civil Engineers, Vol. 1, 1960, Vol. 2, pg. 18-22			
3. Steudt, Hugh E. Drainage for Civil Engineers, Vol. 1, 1960, Fig. 8, pg. 18-21			
4. Chen, M.P. The Civil Engineering Handbook, 1989, Vol. 3, 12 Regan Equation (4.0.10)			
5. Chen, M.P. The Civil Engineering Handbook, 1989, Pg. 20.22, pg. 184			



**CATCH BASIN SECTION**  
SCALE: NTS

**1 SITE DRAINAGE PLAN**  
SCALE: 1"=10'-0"

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SCALE: AS SHOWN FILE NAME: 15014/Elev02.A  
DATE: 27 Oct. 2015

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NO.	DATE	REVISIONS

C1.2

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