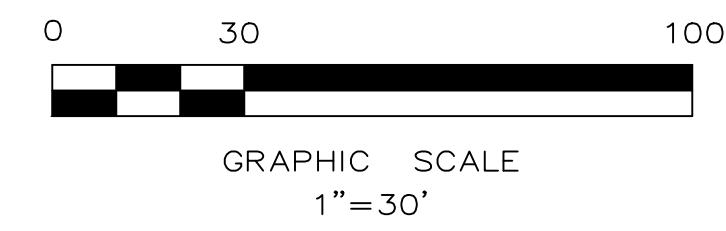


GENERAL / DRAINAGE NOTES

1. All materials and construction shall be in accordance with the City of Rockwall Standard Specifications and Construction Standards, and Standard Specifications for Public Works Construction prepared by North Central Texas Council of Governments (5th Edition).
2. Existing utilities are shown schematically and are for the contractor's guidance only. The location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies, and, where possible, measurements taken in the field. The contractor must call the appropriate utility company at least 72 hours prior to any excavation to request exact field location of utilities.
3. The contractor shall be responsible for protecting all existing improvements in the construction of this project. The contractor is responsible for repairs of damage to any existing improvements during construction. Repairs shall be equal to or better than condition prior to construction.
4. All storm sewer pipe 18" and larger shall be Class III RCP. All storm sewer pipe 15" and smaller shall be PVC drainage pipe or approved equal (and be private).
5. Contractor shall be responsible for maintaining trench safety requirements in accordance with the latest standards of O.S.H.A. or any other agency having jurisdiction for excavation and trenching procedures. Contractor shall provide and implement a trench safety plan complying with O.S.H.A.
6. All RCP pipe joints shall have Ram-Neck joint sealer, in the absence of a City Standard for joint sealant.
7. All roof drain laterals shall be 0.50% min. slope.



▲ Drainage Area Runoff Calculations

Drainage No.	Drainage Area (Acres)	Time of Concentration (minutes)	Runoff Coefficient C	100-Year Event I ₁₀₀ (in/hr)	Q ₁₀₀ (cfs)	Remarks
A	1.35	10	1.00	9.80	11.91	Courtyard & Roof Drainage
B	0.20	10	1.00	9.80	1.76	Roof Drains
C	0.22	10	1.00	9.80	1.94	Roof Drains
D	0.39	10	1.00	9.80	3.41	5' Curb Inlet
E	0.24	10	1.00	9.80	2.12	Roof Drains
F	0.01	10	1.00	9.80	0.11	Drains to 5' Inlet & Contech CDS1515-3-C separator
G	0.24	10	1.00	9.80	2.12	Roof Drains
H	0.43	10	1.00	9.80	3.82	5' Curb Inlet
I	0.19	10	1.00	9.80	1.68	Landscape Drains
J	0.50	10	1.00	9.80	4.41	Sheet Flow to Creek
K	0.11	10	1.00	9.80	0.97	Sheet Flow to the West
L	0.05	10	1.00	9.80	0.40	5' Curb Inlet
M	0.05	10	1.00	9.80	0.40	Sheet Flow to Summer Lee Drive
N	0.01	10	1.00	9.80	0.08	Sheet Flow to Summer Lee Drive
O	0.04	10	1.00	9.80	0.33	5' Curb Inlet

Post-Project Flow to Summer Lee Drive from Drainage Areas I, M, & N (1.06+0.43+0.08 = 1.57cfs) is lower than Pre-Project flow to Summer Lee Drive (1.68 cfs).

Curb Inlet Calculations

Drainage No.	Drainage Area (Acres)	Time of Concentration (minutes)	Runoff Coefficient C	100-Year Event I ₁₀₀ (in/hr)	Q ₁₀₀ (cfs)	Inlet Length (ft)	Inlet Type	On-Grad/Sag	Inlet Capacity* (cfs)
D	0.39	10	0.90	9.80	3.41	5.00	Curb	Sag	6.99
F	0.01	10	0.90	9.80	0.11	5.00	Curb	Sag	6.99
H	0.47	10	0.90	9.80	4.15	5.00	Curb	Sag	6.99
L	0.05	10	0.90	9.80	0.40	5.00	Curb	Sag	6.99
O	0.04	10	0.90	9.80	0.33	5.00	Curb	Sag	6.99

*Capacities per Figure 3.10: Standard Curb Inlet Capacity Sag/Low Point from City of Rockwall Standards of Design & Construction & assuming a depth of 0.5 feet.

DRAINAGE LEGEND

- ▲ Drainage Area Number
- X.XX Acres
- X.XX Q₁₀₀
- Drainage Divide Line
- Direction of Flow

DRAINAGE CRITERIA

- Q = CIA
- C = 0.90
- I₁₀₀ = 9.80
- tc = 10 min.

STOP!
CALL BEFORE YOU DIG



(@ least 72 hours prior to digging)

This Record Drawing is a combination of the sealed engineering contract drawings for this project, modified by revision, change order, field order and information furnished by the contractor. The information shown on the Record Drawings is believed to be accurate based on information furnished by the contractor. The original sealed drawings are on file at the office of:
 Cross Engineering Consultants
 1720 W. Virginia Street
 McKinney, Texas 75069
 (972) 562-4409
 Record Drawings Prepared On: 12/22/2023

CAUTION!
Existing Utilities in Area. Contractor to determine location and elevation of all utilities prior to construction. Contractor to inform Engineer of any conflicts prior to construction.

BENCHMARK:
 City Benchmark: COR-7-Aluminum Disk Stamped "City of Rockwall Survey Monument" Located on the south side of Summer Lee Dr. ±275 feet west of intersection of Summer Lee Dr and Ridge Road, ±1 foot south of curb line. ELEVATION: 567.52
 Site Benchmark: No. 1-"X" Out on rim of water valve located on the north side of Summer Lee Dr. approx. 915 feet easterly from the intersection of Sunset Ridge Dr. ELEVATION: 548.55
 No. 2-"X" Cut on southeast corner of curb inlet located on the east side of Shoreline Tr. approx. 480 feet northerly from the north side of Summer Lee Dr. ELEVATION: 474.56

▲ Updated Drainage Area I based on adjusted grading per site visit observations.

Issue Dates:	Revisions:	Date:	
5	11/30/2020	1	05/17/2021
6	12/23/2020	2	01/28/2022
7	01/22/2021	3	02/25/2022
8	01/29/2021	4	10/31/2023
9	04/19/2021	5	
10	12/22/2023	6	

CROSS ENGINEERING CONSULTANTS
 1720 W. Virginia Street McKinney, Texas 75069
 972.562.4409 Texas P.E. Firm No. F-5935

Drawn By: C.E.C.I. Checked By: C.E.C.I. Scale: 1"=30'

The seal that originally appeared on this document was authorized by T. Zachary Grimes, Texas No. 122013 on 10/31/2023. Alteration of a sealed document without proper notification of the responsible Engineer is an offense under the Texas Engineering Practice Act.

DRAINAGE AREA MAP
HARBOR HILL RESIDENCES
 SUMMER LEE DRIVE
 ROCKWALL, TEXAS

Sheet No.
C3.2
 Project No.
18090

HARBOR HILL RESIDENCES - ROCKWALL