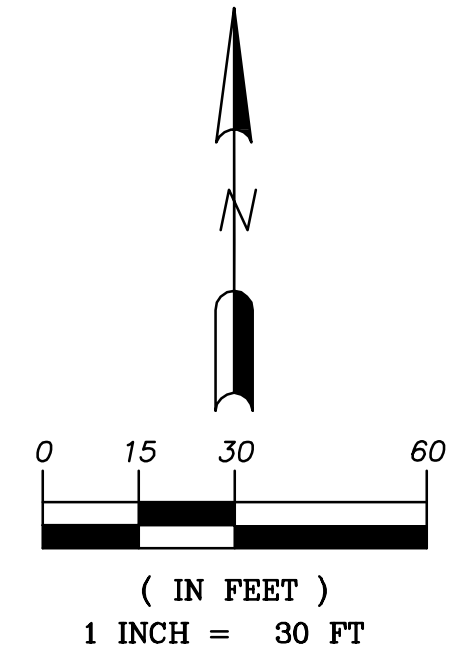


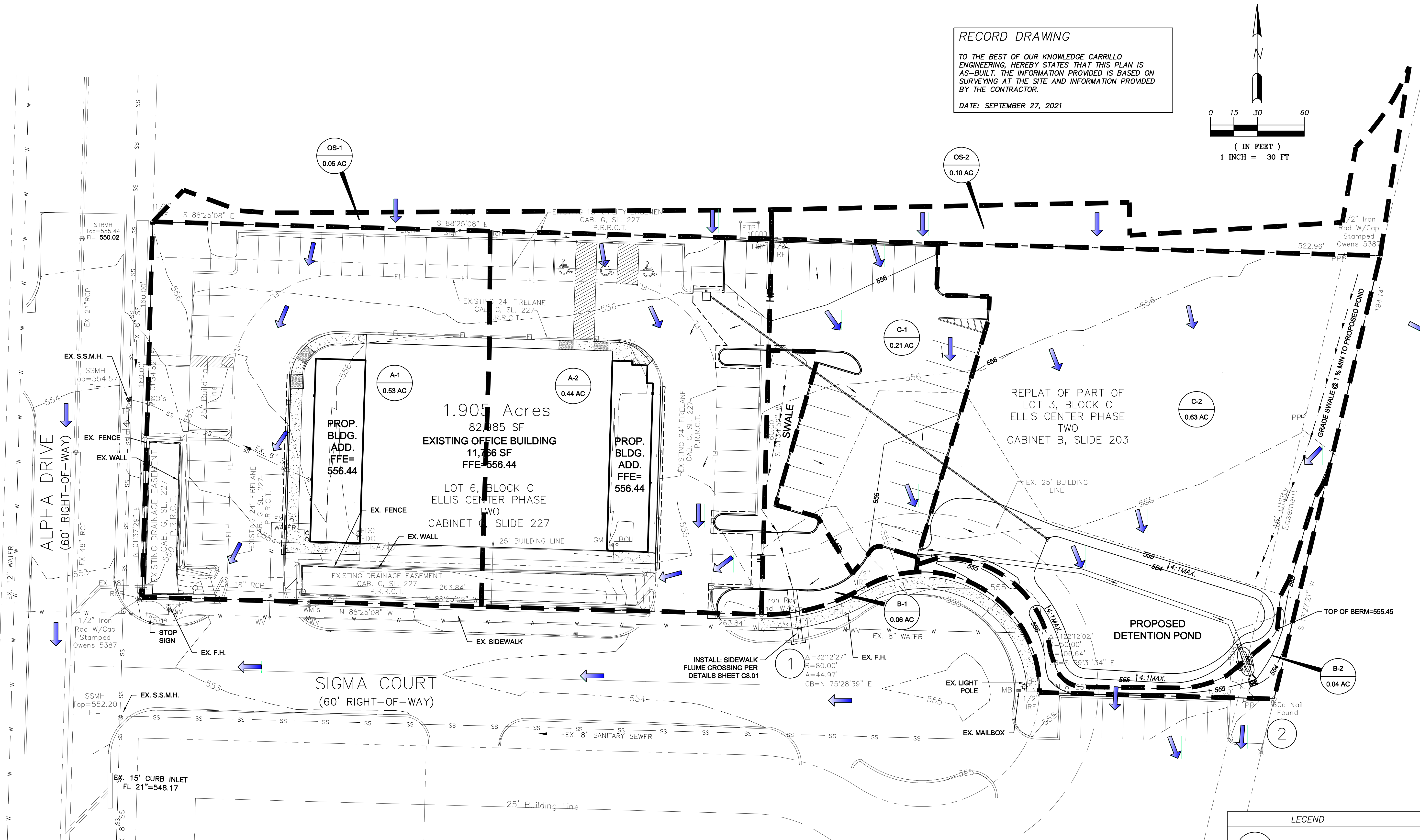
RECORD DRAWING
 TO THE BEST OF OUR KNOWLEDGE CARRILLO ENGINEERING, HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.
 DATE: SEPTEMBER 27, 2021



NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION

Revision Schedule		
Rev. #	Revision Description	Revision Date

NOTE:
 ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.



Proposed Drainage Area Calculations- (in accordance with City of Rockwall Design Drainage Manual)

Drainage Area	Area (Ac)	Runoff Coefficient C	Minimum Inlet Time (min)	5-Year Intensity (in/hr)	5-Year Flow (cfs)	10-Year Intensity (in/hr)	10-Year Flow (cfs)	25-Year Intensity (in/hr)	25-Year Flow (cfs)	100-Year Intensity (in/hr)	100-Year Flow (cfs)	Description
A-1	0.53	0.90	10.00	6.10	2.91	7.10	3.39	8.30	3.96	9.80	4.67	Surface Drains to Existing Detention pond
A-2	0.44	0.90	10.00	6.10	2.42	7.10	2.81	8.30	3.29	9.80	3.88	Surface Drains to Existing Detention pond
B-1	0.06	0.90	10.00	6.10	0.33	7.10	0.38	8.30	0.45	9.80	0.47	Surface Drains to Sigma Court- By Pas Pond
B-2	0.04	0.90	10.00	6.10	0.22	7.10	0.26	8.30	0.30	9.80	0.35	By Pass Pond
C-1	0.21	0.90	10.00	6.10	1.15	7.10	1.34	8.30	1.57	9.80	1.85	Surface Drains to Proposed Detention Pond
C-2	0.63	0.90	10.00	6.10	3.46	7.10	4.03	8.30	4.71	9.80	5.56	Surface Drains to Proposed Detention Pond
Subtotal (onsite)	1.91				10.49		12.20		14.27		16.79	
OS-1	0.05	0.90	10.00	6.10	0.27	7.10	0.32	8.30	0.37	9.80	0.44	Surface Drains to Site then to Existing Detention Pond
OS-2	0.10	0.90	10.00	6.10	0.55	7.10	0.64	8.30	0.75	9.80	0.88	Surface Drains to Site then to Proposed Detention Pond
Total	2.06				11.31		13.16		15.39		18.11	

Note:
 * Runoff Coefficient= 0.90 (Developed)
 * Runoff Coefficient of 0.90 is Used for DA (C-2) for Future Development.
 * Runoff Coefficient= 0.35 (Undeveloped - Open Areas)
 * Runoff Coefficient of 0.90 is used for DA (OS-1&OS-2) same as the Plans Provided for the Rockwall Urban + Industrial Center dated 3/25/2020

FLOW COMPARISON CHART

Discharge Location	Existing Q (cfs)	Proposed Q (cfs)
1	0.47	0.47
2	3.73	1.82

LEGEND

- A-X
X XX Ac DRAINAGE AREA LABELS
- ← DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- 554- EXISTING CONTOURS
- 556- PROPOSED CONTOURS
- == PROPOSED STORM DRAIN

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BENCH MARK:
 All elevations shown hereon are based on the City of Rockwall Control Monumental System.
 COR-11 Brass Disk stamped "City of Rockwall Survey Monument" on the northeast side of Mims Road at the southerly end of a concrete headwall at the intersection of the northeast line of Mims Rd. with the southeast line of I-30. Elevation=565.98'
 TBM - "X" cut on the southeast corner of an electric transformer pad at the northeast corner of Lot 3A-R. Elevation = 557.37'

Carrillo Engineering, LLC
 301 Commerce Street, Ste 1410 - Fort Worth, Texas 76102
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ROCKWALL DFPS
 ELLIS CENTRE #2 ADDITION
 BOCK C, LOT 3A-R
 1203 SIGMA CT,
 ROCKWALL, TX 75087
 3/1/2021
 ISSUE DATE

PROPOSED DRAINAGE AREA MAP
C4.01