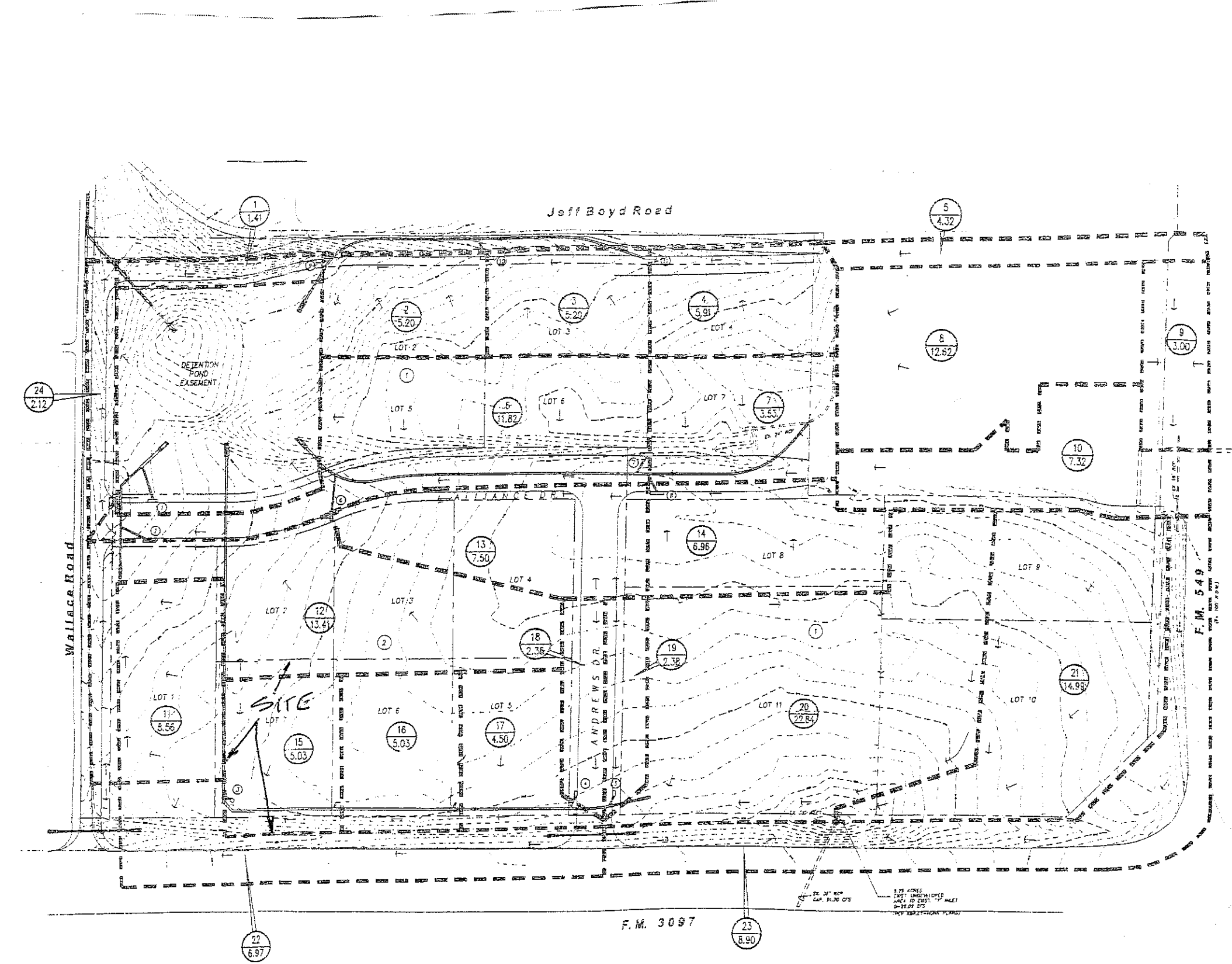
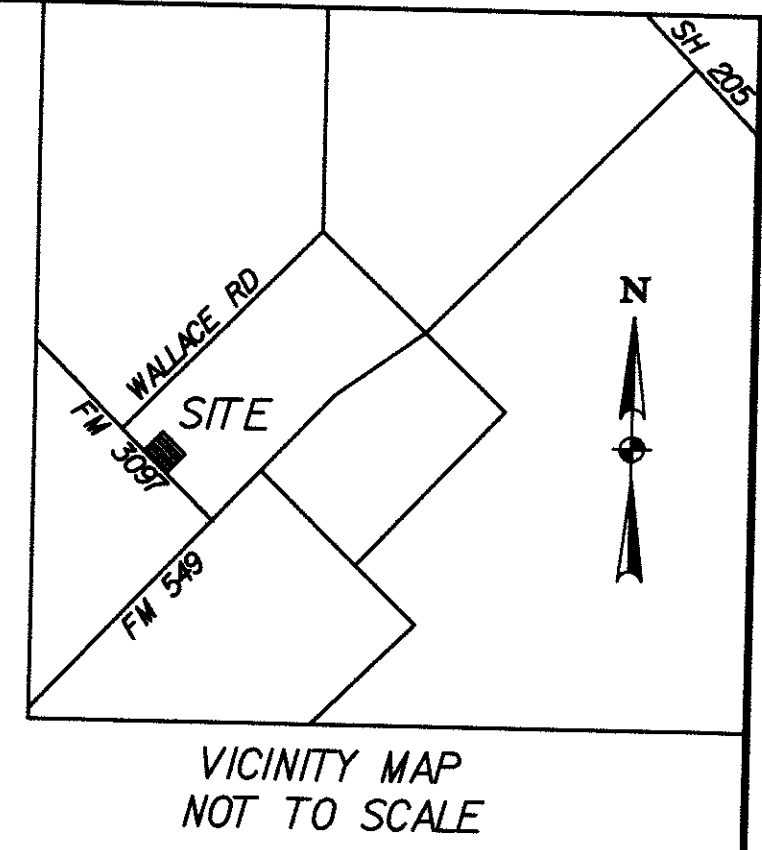
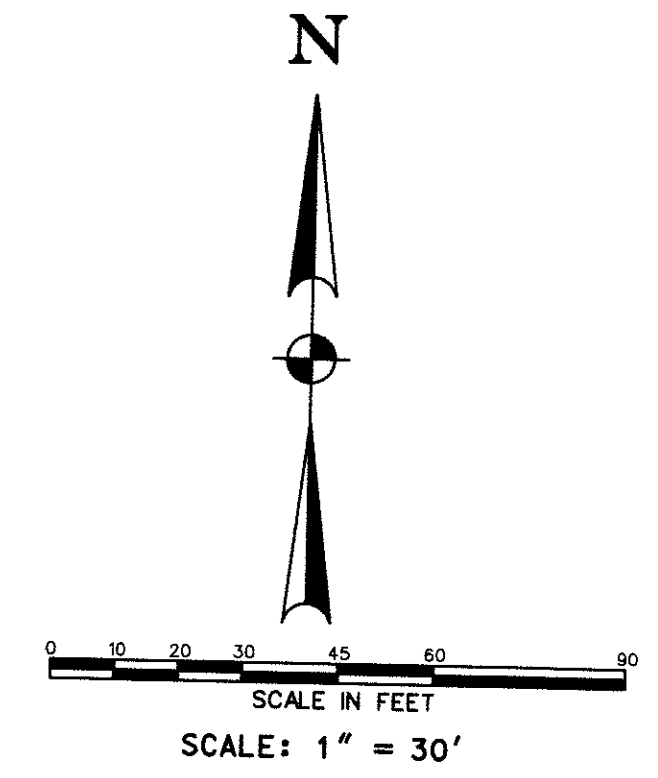


LINE LEGEND:

- PROPERTY LINE
- DRAINAGE FLOW LINE
- PROPOSED WATER LINE
- ROAD CENTER LINE
- PROPOSED STORM SEWER
- PROPOSED STREET
- - - - - EXISTING CONTOUR LINE
- - - - - PROPOSED CONTOUR LINE
- BUILDING SETBACK LINE
- DRAINAGE EASEMENT
- DRAINAGE DIVIDE LINE
- ROW / LOT LINE
- PROPOSED FENCE



DRAINAGE CALCULATIONS

AREA NO.	AREA (AC.)	TC (MIN.)	C	Q (CFS)	DRAINS
1	0.16	10	0.90	1.41	1" Inlet/Point
2	0.59	10	0.90	5.20	1" Inlet/Point
3	0.59	10	0.90	5.20	1" Inlet/Point
4	0.67	10	0.90	5.91	1" Inlet/Point
5	0.67	10	0.90	5.91	1" Inlet/Point
6	1.34	10	0.90	11.82	1" Inlet/Point
7	0.40	10	0.90	3.53	1" Inlet/Point
8	2.72	10	0.90	12.62	1" Inlet/Point
9	0.34	10	0.90	3.00	1" Inlet/Point
10	0.23	10	0.90	2.32	1" Inlet/Point
11	0.63	10	0.90	5.56	1" Inlet/Point
12	1.52	10	0.90	13.41	1" Inlet/Point
13	0.85	10	0.90	7.50	1" Inlet/Point
14	0.79	10	0.90	6.96	1" Inlet/Point
15	0.57	10	0.90	5.03	1" Inlet/Point
16	0.57	10	0.90	5.03	1" Inlet/Point
17	0.51	10	0.90	4.50	1" Inlet/Point
18	0.27	10	0.90	2.38	1" Inlet/Point
19	0.27	10	0.90	2.38	1" Inlet/Point
20	2.58	10	0.90	22.94	1" Inlet/Point
21	1.70	10	0.90	14.99	1" Inlet/Point
22	0.79	10	0.90	6.97	1" Inlet/Point
23	1.01	10	0.90	8.90	1" Inlet/Point
24	0.24	10	0.90	2.12	1" Inlet/Point

LEGEND

- EX. CONTOUR
- DRAINAGE DIVIDE
- AREA NO.
- RUNOFF - Q₁₀₀
- INLET NO.
- FLOW DIRECTION

ASBUILT DRAINAGE AREA MAP (RECORD DATA)

THIS DOCUMENT IS SUBMITTED AS AN "AS-BUILT DRAWING" FOR RECORD PURPOSES ONLY. ANY MODIFICATION OR CHANGES THAT HAVE BEEN MADE DURING CONSTRUCTION AND NOTED ON THIS DRAWING HAVE BEEN SUPPLIED BY THE OWNER, HIS REPRESENTATIVE OR THE CONTRACTOR. FIELD INSPECTION/CONTRACT SUPERVISION OF THE CONSTRUCTION WAS PERFORMED BY OTHERS. IT IS NOT GUARANTEED BY HELMBERGER ASSOCIATES, INC. THAT THIS DOCUMENT REPRESENTS "AS-BUILT" CONDITIONS. TBPE FIRM NO. 000756

STORMWATER RUNOFF CALCULATIONS (100 YR STORM)

LOCATION	T _c (MINUTES)	I (100)	A (ACRES)	C	Q ₁₀₀	FLows TO
DA-4	10	9.8	0.21	0.90	1.9 CFS	DROP INLET
DA-5	10	9.8	0.36	0.90	3.2 CFS	DROP INLET

OWNER:
 RANDALL NOE ENTERPRISES INC.
 P.O. BOX 369
 ROCKWALL, TEXAS 75087
 MR. ROB WHITTLE
 (972) 771-5253

ENGINEER:
 HELMBERGER ASSOCIATES, INC.
 1525 BOZMAN ROAD
 WYILE, TEXAS 75098
 MR. STEPHEN A. HELMBERGER, P.E.
 (972) 442-7459

DRAINAGE AREA MAP
 LOTS 11 BLOCK 2 - ALLIANCE ADDITION PH 2
 RANDALL NOE ENTERPRISES INC.
 CITY OF ROCKWALL, TEXAS

HELMBERGER ASSOCIATES, INC.
 CIVIL AND ENVIRONMENTAL ENGINEERS
 1525 BOZMAN ROAD, WYILE TEXAS 75098 (972) 442-7459

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
HELM.	CADD	MAY 2015	1"=30'	DAA	1507	C4

