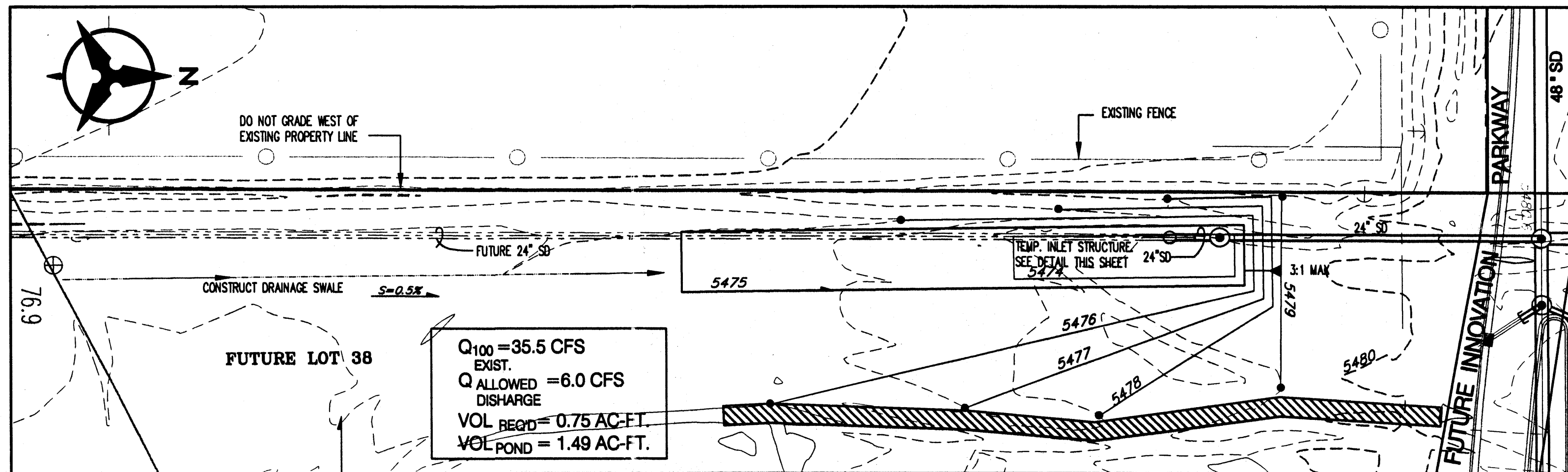
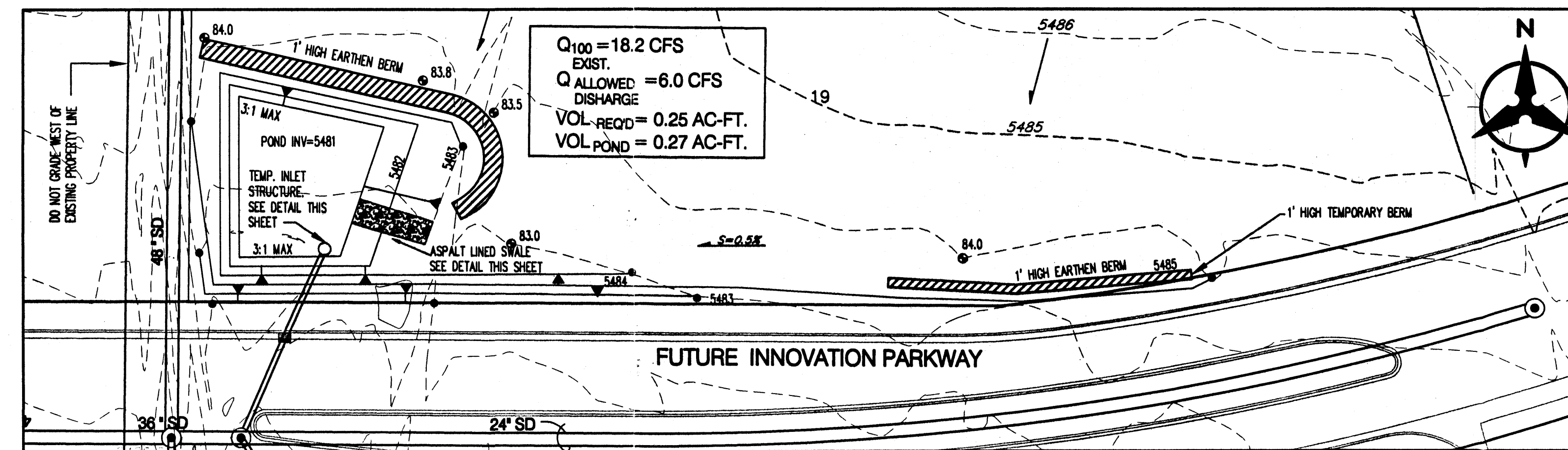


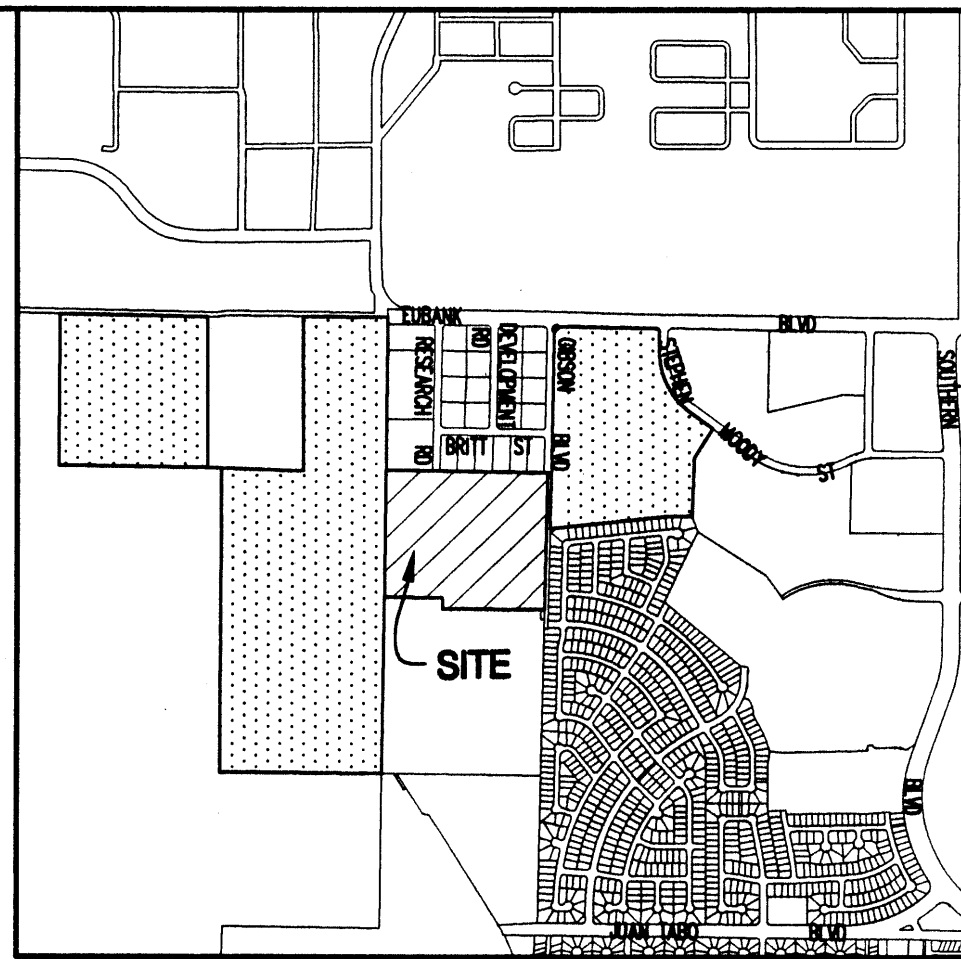
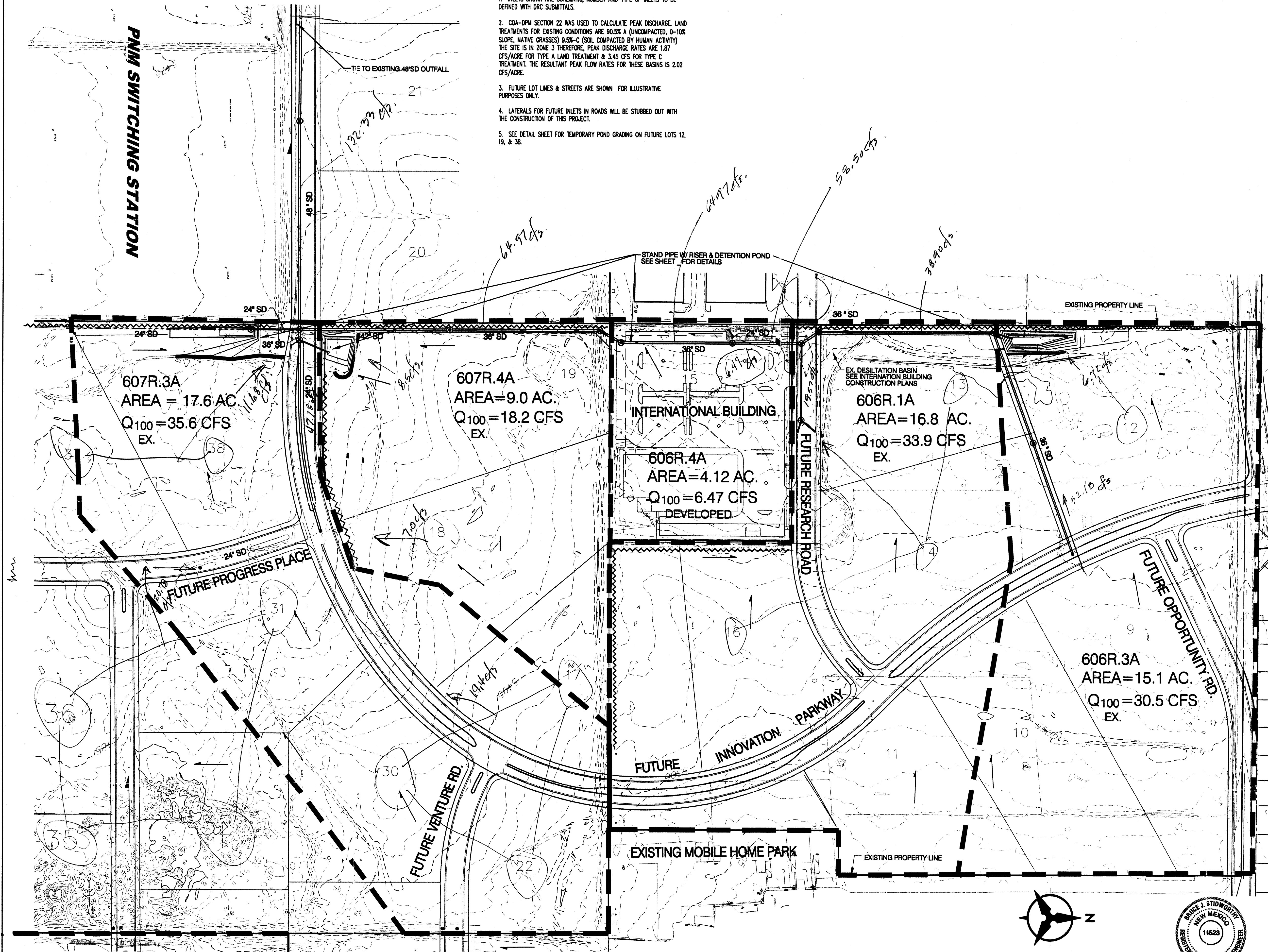


GRADING PLAN DETAIL 1-TEMPORARY DISILTATION DETENTION POND (LOT 38)
SCALE: 1"=30'



GENERAL NOTES:

1. INLETS SHOWN ARE SCHEMATIC, NUMBER AND TYPE OF INLETS TO BE DEFINED WITH DRG SUBMITTALS.
2. COA-DPM SECTION 22 WAS USED TO CALCULATE PEAK DISCHARGE. LAND TREATMENTS FOR EXISTING CONDITIONS ARE 90.5% A (UNCOMPACTED, 0-10% SLOPE, NATIVE GRASSES) 9.5% C (SOIL COMPACTED BY HUMAN ACTIVITY) THE SITE IS IN ZONE 3 THEREFORE, PEAK DISCHARGE RATES ARE 1.87 CFS/ACRE FOR TYPE A LAND TREATMENT & 3.45 CFS FOR TYPE C TREATMENT. THE RESULTANT PEAK FLOW RATES FOR THESE BASINS IS 2.02 CFS/ACRE.
3. FUTURE LOT LINES & STREETS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.
4. LATERALS FOR FUTURE INLETS IN ROADS WILL BE STUBBED OUT WITH THE CONSTRUCTION OF THIS PROJECT.
5. SEE DETAIL SHEET FOR TEMPORARY POND GRADING ON FUTURE LOTS 12, 19, & 38.



VICINTY MAP
L-21-Z, M-21-Z

LEGEND

- PROPOSED STORM DRAIN
- - - 5301 - - - EXISTING CONTOURS
- EXISTING ELECTRICAL POLE
- - - EASEMENT
- ⊙ EXISTING STORM DRAIN MANHOLE
- ⊕ EXISTING ANCHOR
- ⊕ EXISTING FIRE HYDRANT
- ⊕ EXISTING FLAGPOLE
- ⊕ EXISTING SIGNS
- ⊕ EXISTING IRRIGATION BOX
- ⊕ EXISTING PULLBOX
- ⊕ EXISTING TRAFFIC BOX
- ⊕ EXISTING UNKNOWN UTILITY
- ⊕ EXISTING TRANSFORMER
- ⊕ PROPOSED DROP INLET & PIPE
- ⊕ PROPOSED SD MH
- EXISTING STORM DRAIN
- PROPOSED BERM
- DRAINAGE FLOW ARROWS
- - - BASIN BOUNDARY

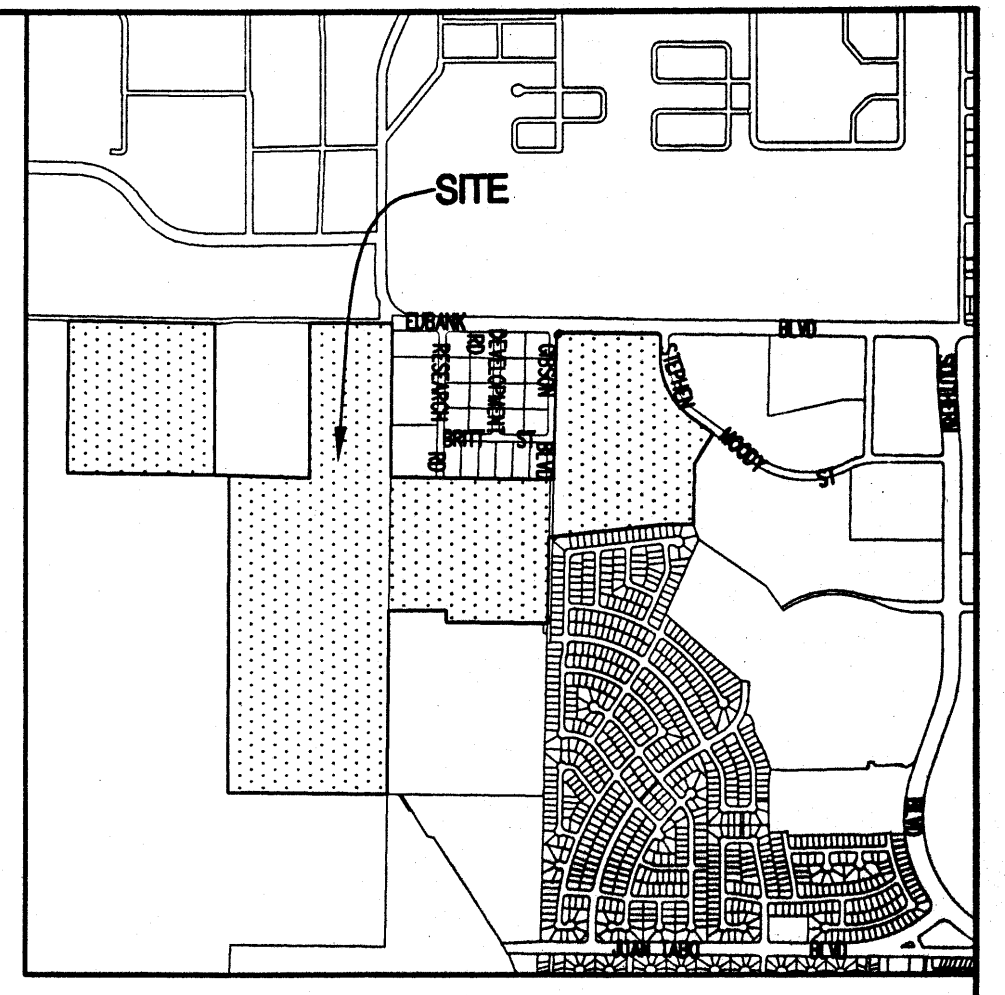
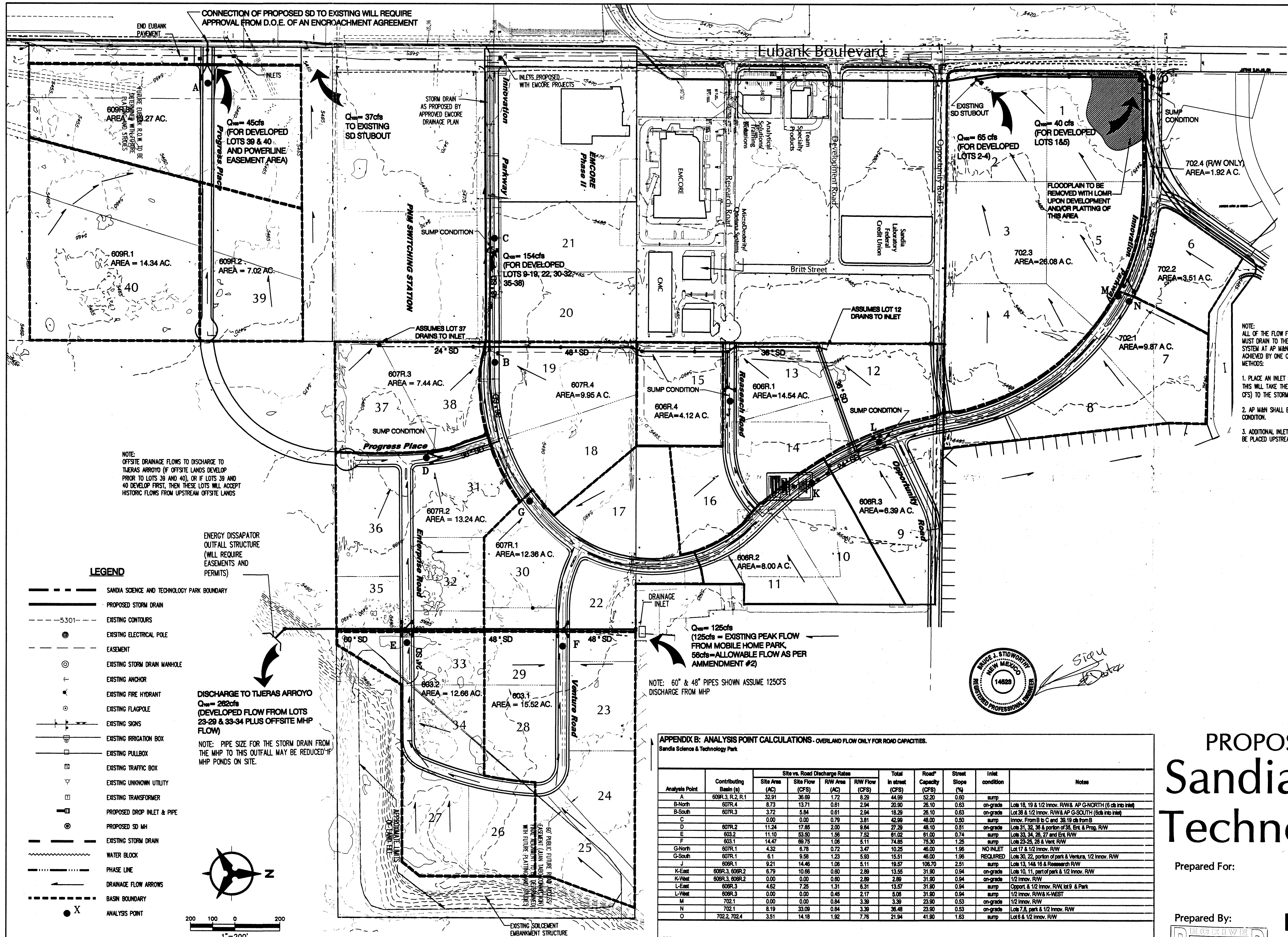
EXISTING CONDITIONS BASIN MAP
SOUTHER STORM DRAIN BACKBONE

Sandia Science &
Technology Park

Prepared For: Science and Technology Park
Development Corporation
Albuquerque, New Mexico 87120

Prepared By: [Signature]
[Stamp: NEW MEXICO 14523 REGISTERED PROFESSIONAL ENGINEER]

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Oct 17, 2001 - 7:53am



VICINITY MAP
L-21-Z, M-21-Z

- NOTES:
1. INLETS SHOWN ARE SCHEMATIC, NUMBER AND TYPE OF INLETS TO BE DEFINED WITH DRC SUBMITTALS
 2. LOT LINES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY

- NOTE:
1. PLACE AN INLET ON SITE ON LOT 7, THIS WILL TAKE THE SITE FLOW (33.09 CFS) TO THE STORM DRAIN SYSTEM.
 2. AP M-1 SHALL BE IN SUMP CONDITION.
 3. ADDITIONAL INLETS ON-GRADE WILL BE PLACED UPSTREAM FROM AP M-1.

APPENDIX B: ANALYSIS POINT CALCULATIONS - OVERLAND FLOW ONLY FOR ROAD CAPACITIES.

Sandia Science & Technology Park

Analysis Point	Contributing Basin (a)	Site Area (AC)	Site Flow (CFS)	RW Area (AC)	RW Flow (CFS)	Total In Street (CFS)	Road Capacity (CFS)	Street Slope (%)	Inlet condition	Notes
A	609R.3, R.2, R.1	32.91	36.69	1.72	8.29	44.98	52.20	0.60	sump	
B-North	607R.4	8.73	13.71	0.61	2.94	26.90	26.10	0.63	on-grade	Lots 18, 19 & 1/2 Innov. RW & AP G-NORTH (6 cfs into inlet)
B-South	607R.3	3.72	5.84	0.61	2.94	18.29	26.10	0.63	on-grade	Lot 38 & 1/2 Innov. RW & AP G-SOUTH (6 cfs into inlet)
C		0.00	0.00	0.79	3.81	42.99	48.00	0.50	sump	Innov. From B to C and 38.19 cfs from B
D	607R.2	11.24	17.85	2.00	9.84	27.29	48.10	0.51	on-grade	Lots 31, 32, 36 & portion of 35, Ent. & Prop. RW
E	603.2	11.10	53.50	1.96	7.52	61.02	61.00	0.74	sump	Lots 33, 34, 28, 27 and Ent. RW
F	603.1	14.47	68.75	1.08	5.11	74.85	75.30	1.25	sump	Lots 23-25, 28 & Vent. RW
G-North	607R.1	4.32	6.78	0.72	3.47	10.25	48.00	1.98	NO INLET	Lot 17 & 1/2 Innov. RW
G-South	607R.1	6.1	9.58	1.23	5.93	15.51	48.00	1.98	REQUIRED	Lots 30, 22, portion of park & Ventura, 1/2 Innov. RW
J	609R.1	9.21	14.46	1.06	5.11	19.57	108.70	2.51	sump	Lots 13, 14 & 16 & Research RW
K-East	606R.3, 606R.2	6.79	10.66	0.60	2.89	13.55	31.90	0.94	on-grade	Lots 10, 11, part of park & 1/2 Innov. RW
K-West	606R.3, 606R.2	0.00	0.00	0.60	2.89	2.89	31.90	0.94	on-grade	1/2 Innov. RW
L-East	606R.3	4.82	7.25	1.31	6.31	13.57	31.90	0.94	sump	Opport. & 1/2 Innov. RW, Lot 9 & Park
L-West	606R.3	0.00	0.00	0.45	2.17	5.08	31.90	0.94	sump	1/2 Innov. RW & R-WEST
M	702.1	0.00	0.00	0.94	3.39	3.39	23.90	0.53	on-grade	1/2 Innov. RW
N	702.1	8.19	33.09	0.84	3.39	36.48	23.90	0.53	on-grade	Lots 7 & park & 1/2 Innov. RW
O	702.2, 702.4	3.51	14.18	1.92	7.76	21.94	41.90	1.83	sump	Lot 6 & 1/2 Innov. RW

NOTE: Analysis point M takes flow from west half of Innovation within Basin 702.1 plus over flow (low that crosses street) from east half of Innovation.

* Road Capacity is measured at a depth of top of standard curb. See Appendix C for capacity calculations.

PROPOSED BASIN MAP Sandia Science & Technology Park

Prepared For: Science and Technology Park Development Corporation
Albuquerque, New Mexico 87120

Prepared By: Bohannon & Huston
1001 1st Street, NE
Albuquerque, NM 87106
405.241.1111
www.bohannon-huston.com