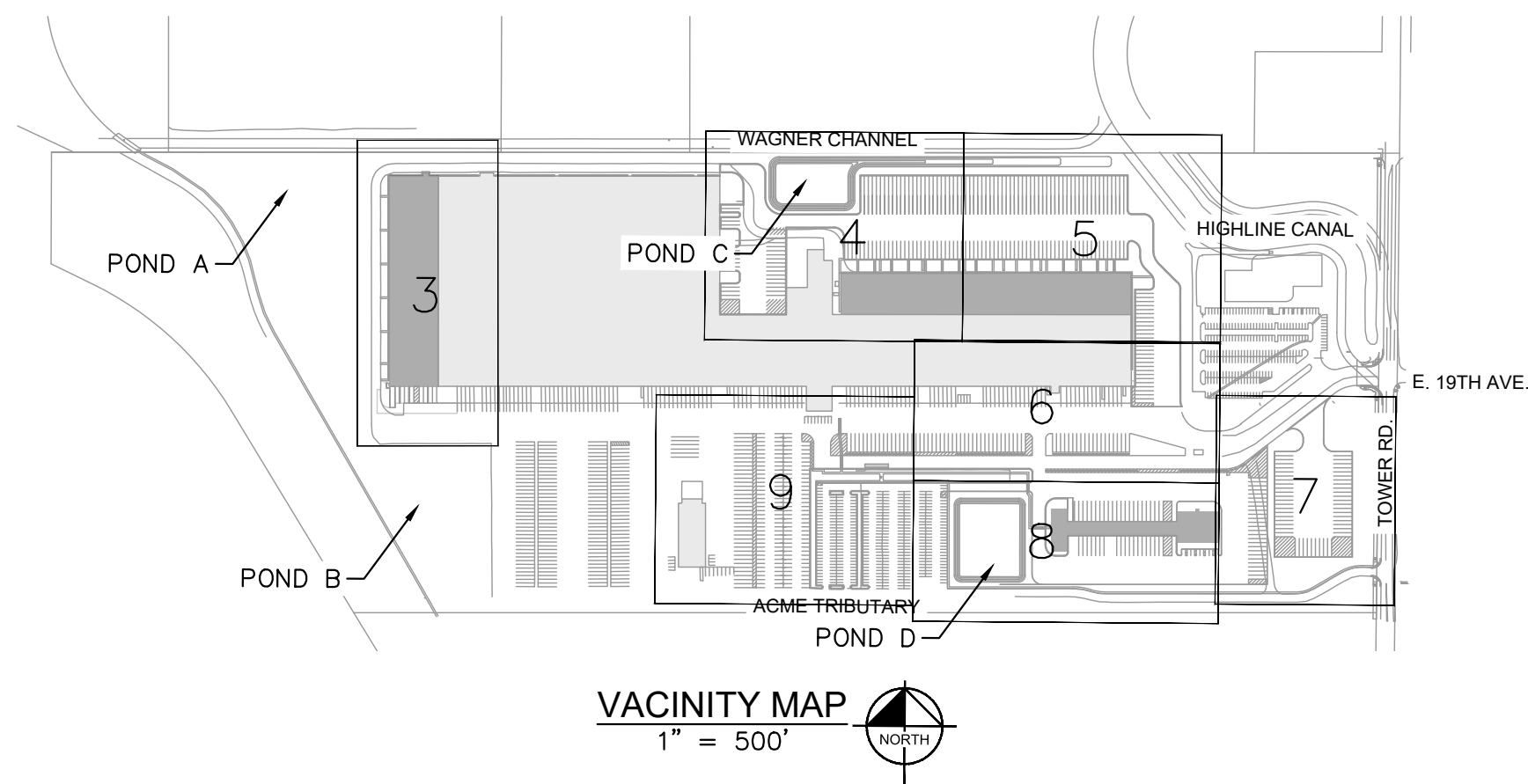


RATIONAL CALCULATIONS SUMMARY (N & S EXPANSION)							
DESIGN POINT	TRIBUTARY BASINS	TRIBUTARY AREA (AC)	IMPERVIOUSNESS %	PEAK FLOWS (CFS)		CUMULATIVE FLOWS (CFS)	
				Q2	Q100	Q2	Q100
On-Site North Basins							
N1	N1	0.85	85%	1.46	4.90	9.62	32.18
N2	N2	0.91	87%	1.63	5.41	8.23	34.33
N3	N3	1.39	86%	2.45	8.17	6.71	22.44
N4	N4	1.41	86%	2.36	7.87	4.39	14.71
N5	N5	1.24	85%	2.15	7.21		
N6	N6	1.97	82%	2.94	10.11		
N-R1	N-R1	2.41	95%	5.33	16.82		
POND C	POND C	1.25	21%	0.40	4.44	11.04	40.07
SWALE-N	SWALE-N	1.23	20%	0.22	2.50		
EX-1	EX-1	0.51	95%	1.07	3.57		
TOTAL		13.16	75%	19.99	70.80		
On-Site South Basins							
S1	S1	0.19	95%	0.42	1.32		
S2	S2	0.79	91%	1.75	5.63	7.01	26.20
S3	S3	0.54	95%	1.24	3.90	5.83	22.41
S4	S4	1.14	88%	2.02	6.65	5.00	19.78
S5	S5	0.63	79%	0.97	3.40		
S6	S6	1.18	83%	2.05	7.02	2.87	9.90
S7	S7	0.29	83%	0.57	1.95		
S8	S8	0.49	93%	1.10	3.50	3.76	12.76
S9	S9	2.83	89%	6.07	19.88		
S10	S10	3.66	58%	3.36	14.41		
S11	S11	1.42	83%	2.59	5.83		
S12	S12	0.17	75%	0.30	1.10		
S13	S13	2.40	96%	4.52	14.27	6.84	22.15
S14	S14	2.20	87%	3.63	12.03		
S15	S15	1.35	83%	2.17	7.39		
S16	S16	0.57	95%	1.23	3.88		
S-R1	S-R1	0.69	95%	1.31	4.14		
POND D	POND D	1.65	24%	0.59	5.50	16.18	55.87
EX-R1	EX-R1	2.41	95%	4.89	15.42		
TOTAL		24.59	80%	40.77	140.21		

			Direct Flows		Cumulative Flows		
DESIGN POINT	DRAIN BASIN	AREA Ac	IMP %	Q2 CFS	Q100 CFS	Q2 CFS	Q100 CFS
A-1	A-1	6.24	24%	1.4	13.0		
A-2	A-2	1.08	43%	0.5	2.7	7.6	9.5
A-3	A-3	1.72	42%	0.9	4.6		
A-4	A-4	3.00	46%	2.1	10.5		
R-1	R-1	0.61	95%	1.3	4.1		
R-2	R-2	0.68	95%	1.4	4.5		
R-3	R-3	0.33	95%	0.7	2.2	4.2	4.6
R-4	R-4	0.37	95%	0.8	2.5	12.0	13.2
R-5	R-5	0.30	95%	0.6	2.0		
R-6	R-6	0.29	95%	0.6	1.9	3.5	3.9
R-7	R-7	0.24	95%	0.5	1.6	4.9	5.5
R-8	R-8	0.27	95%	0.6	1.8	6.5	7.2
R-9	R-9	0.27	95%	0.6	1.8	8.2	9.0
R-10	R-10	0.27	95%	0.6	1.8		
R-11	R-11	0.36	95%	0.8	2.4	12.0	13.2
A-5	A-5	0.62	23%	0.2	1.4		
A-1 (future)	A-1 (future)	4.84	25%	1.2	11.1		
A-2 (future)	A-2 (future)	0.90	48%	0.9	4.5		
A-5 (future)	A-5 (future)	0.16	94%	0.4	1.1		
R-12 (future)	R-12 (future)	1.04	95%	2.2	6.9		
R-13 (future)	R-13 (future)	1.03	95%	2.2	6.9		
OS-1	OS-1	0.64	20%	0.2	8.5		
OS-2	OS-2	0.27	95%	0.6	4.5		
OS-3	OS-3	0.62	20%	0.2	4.9		



SHEET INDEX	
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	OVERALL PRELIMINARY DRAINAGE MAP
3	PRELIMINARY DRAINAGE MAP
4	PRELIMINARY DRAINAGE MAP
5	PRELIMINARY DRAINAGE MAP
6	PRELIMINARY DRAINAGE MAP
7	PRELIMINARY DRAINAGE MAP
8	PRELIMINARY DRAINAGE MAP
9	PRELIMINARY DRAINAGE MAP

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Approved For One Year From This Date

Aurora Water - Drainage Division

Date _____

Kimley»»Horn

KIMLEY-HORN AND ASSOCIATES, INC.
6200 S. Syracuse Way, Suite 300
Greenwood Village, Colorado 80111 (303) 228-2300

DESIGNED BY: MTH
DRAWN BY: SPD
CHECKED BY: SAM
DATE: 4/19/24

**ASSOCIATED GROCERS OF
COLORADO FILING NO. 2
CITY OF AURORA, COUNTY OF ADAMS
COVER SHEET**

COVER SHEET

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Kimley»Horn
Kimley-Horn and Associates, Inc.

PROJECT NO.
196772002

DRAWING NAME
96772002_DRN



1

BENCHMARK COA ID: 3S6633NE005
COA BC ON S BANK E-W CONC-LINED DRAINAGE
DITCH & 2.7'N OF E-W CL FENCE ON N PROP LINE OF
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NAVD88 ELEV: 5419.59

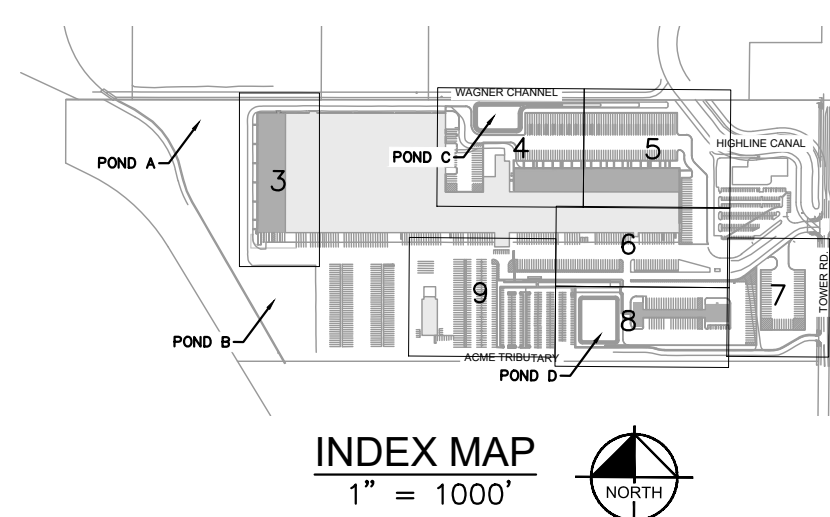
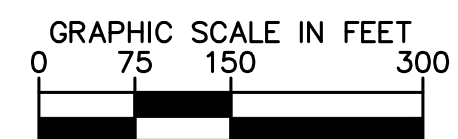


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 PROPOSED BASIN BOUNDARY
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 EMERGENCY OVERFLOW ARROW

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**ASSOCIATED GROCERS OF
COLORADO FILING NO. 2
CITY OF AURORA, COUNTY OF ADAMS
OVERALL PRELIMINARY DRAINAGE MAP**

Kimley»»Horn

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Greenwood Village, Colorado 80111 (303) 228-2300

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DRAWN BY: SPD
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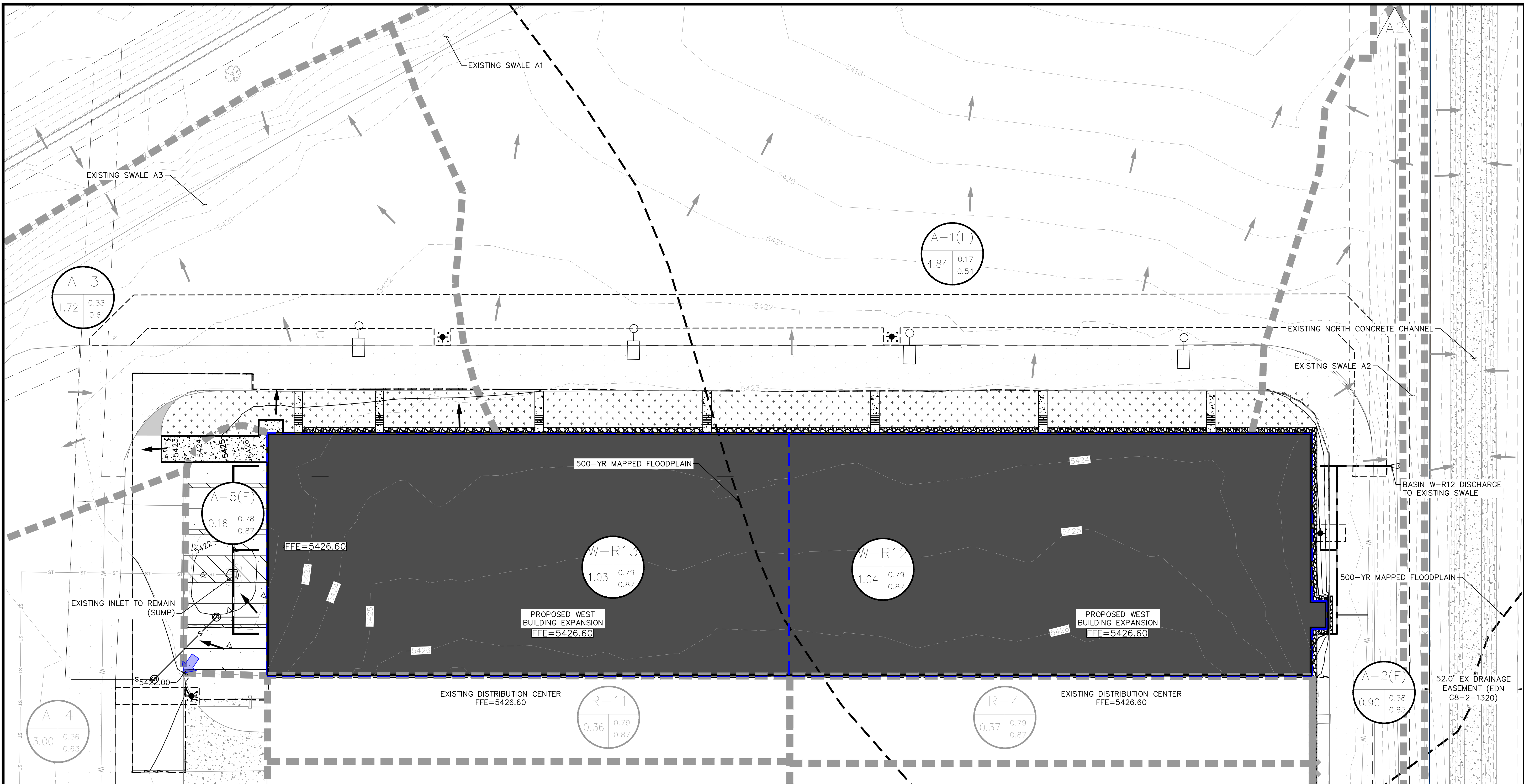
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DRAWING NAME
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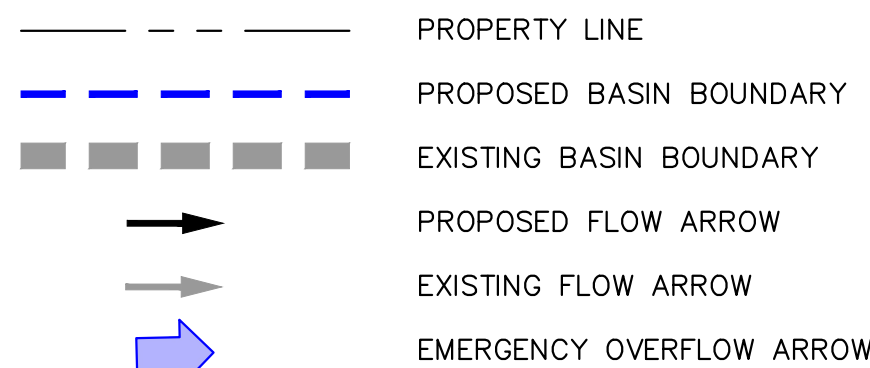
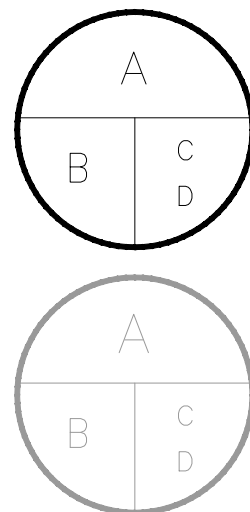
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REVISION	BY	DATE	APPR.
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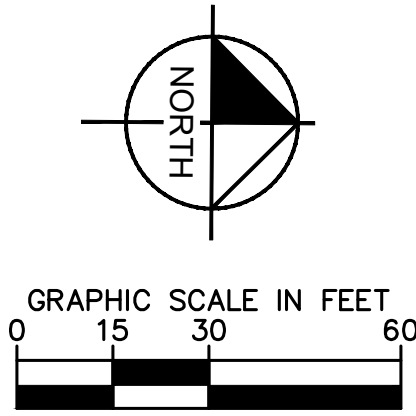
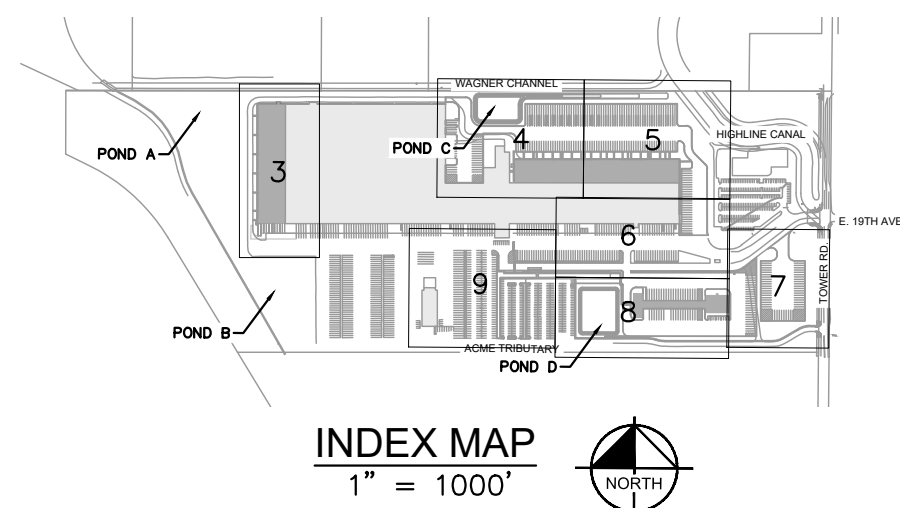


LEGEND



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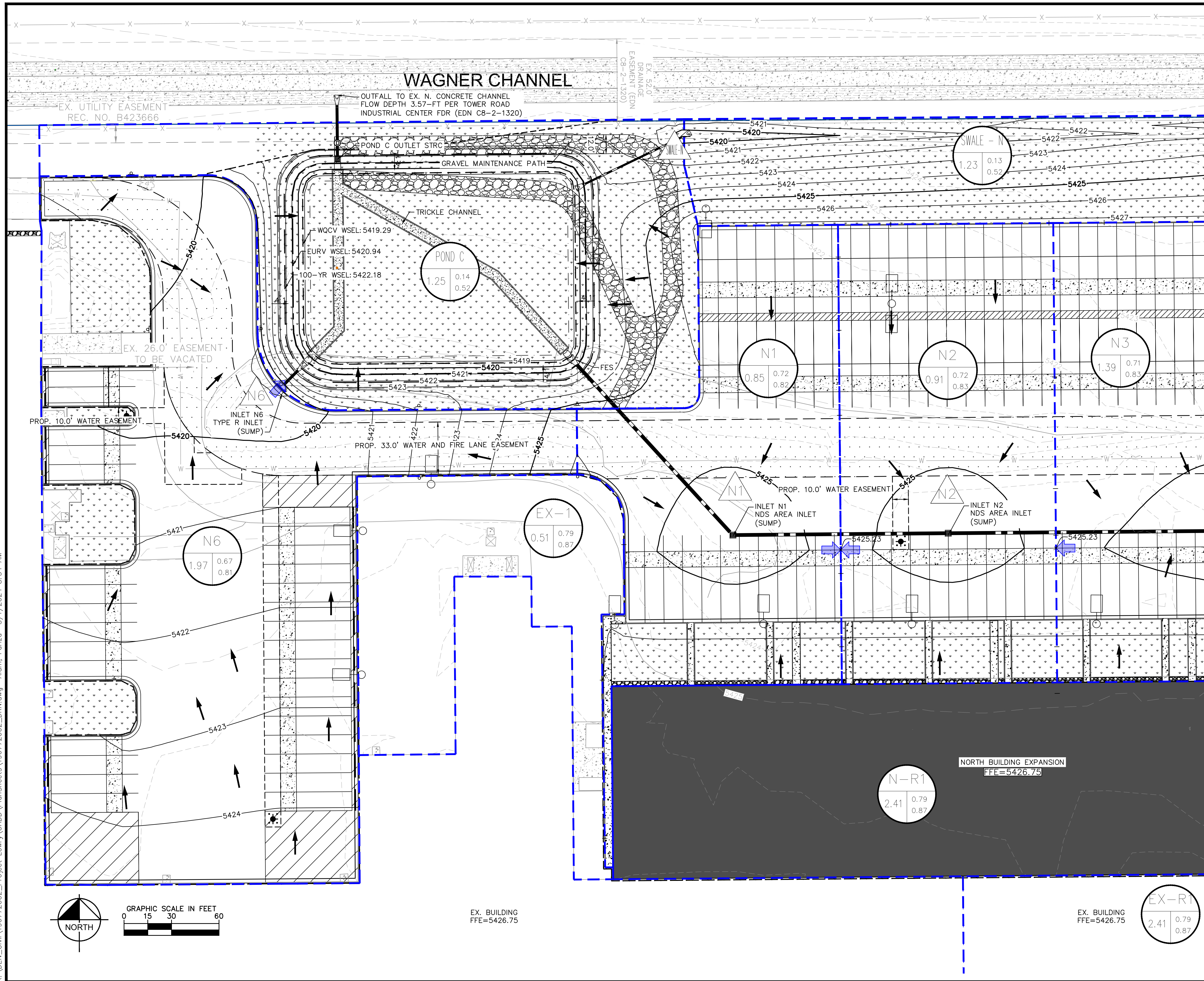
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COLORADO FILING NO. 2
CITY OF AURORA, COUNTY OF ADAMS
PRELIMINARY DRAINAGE MAP

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PROJECT NO.
196772002

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INDEX MAP
1" = 1000'

LEGEND

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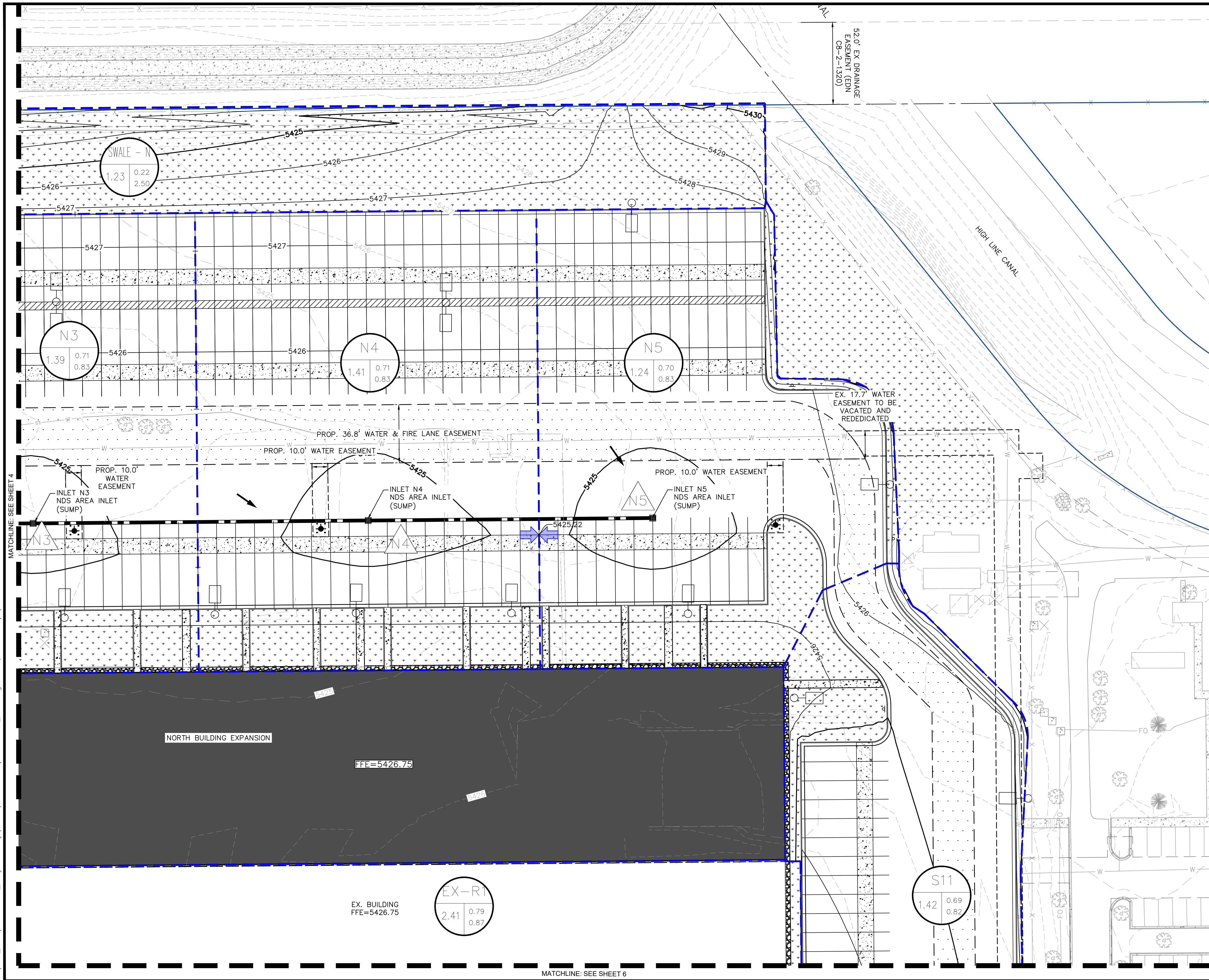
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PROJECT NO.
196772002

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INDEX MAP
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LEGEND

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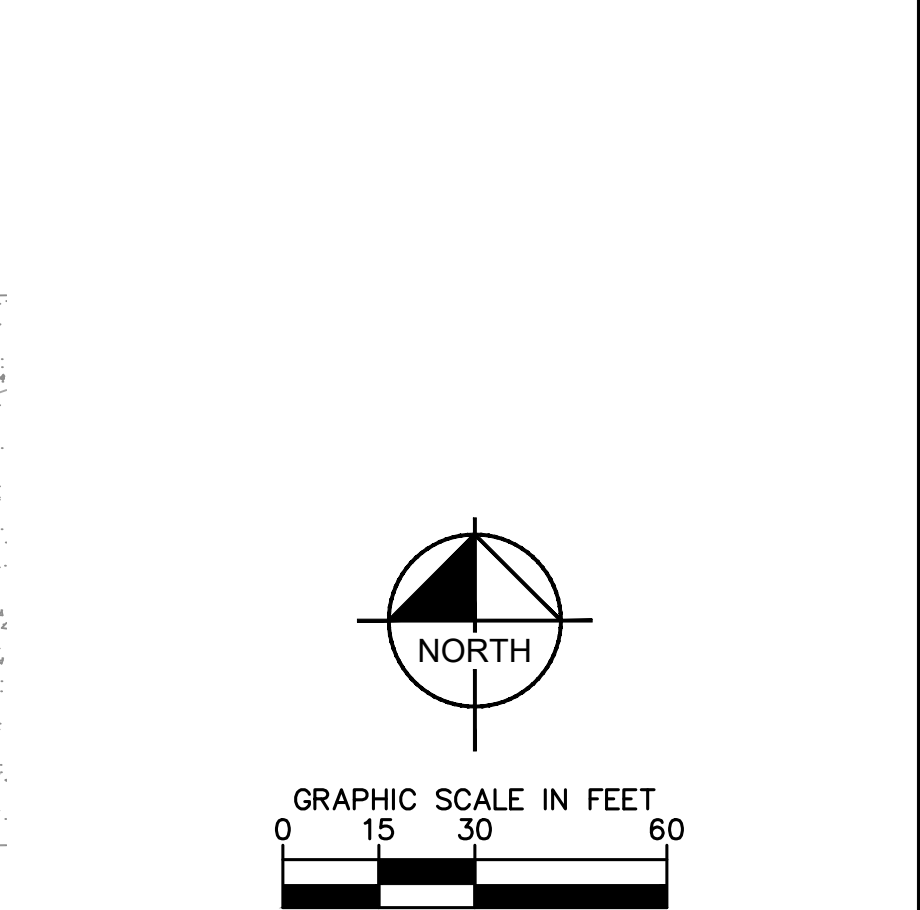
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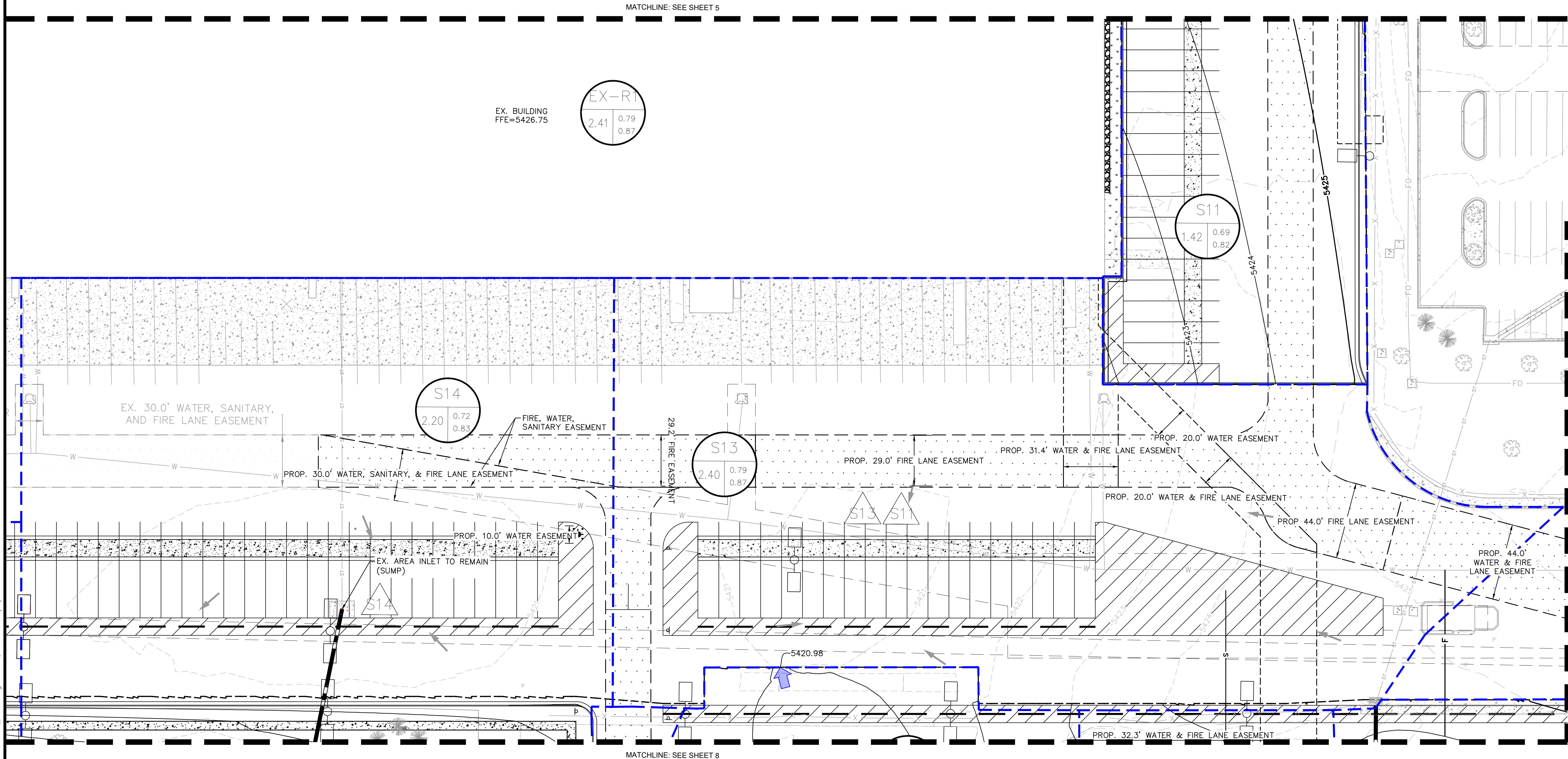
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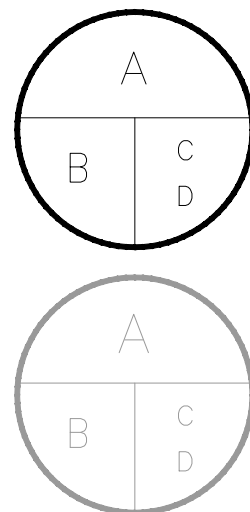
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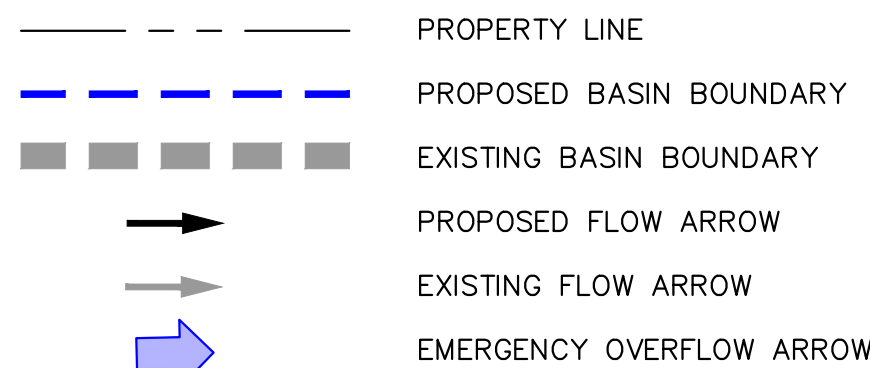


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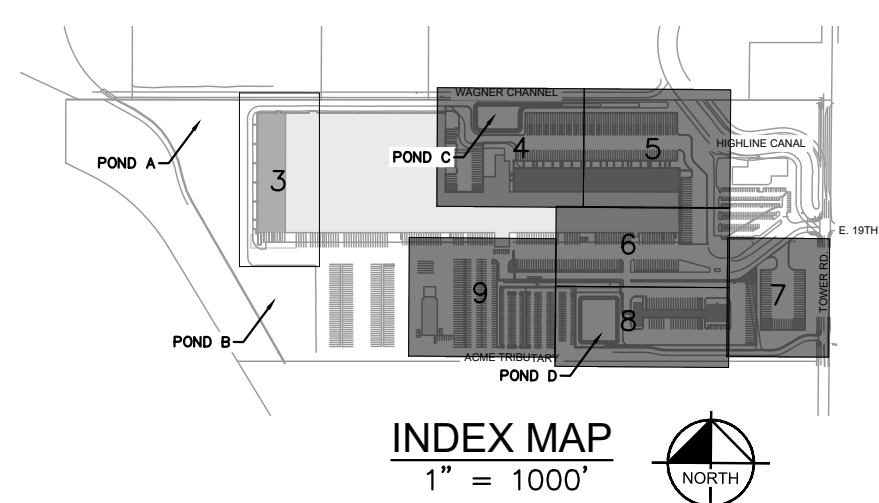
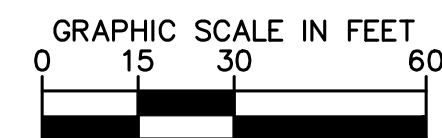
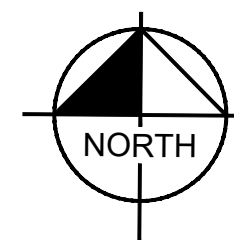
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BENCHMARK COA ID: 3S6633NE005
COA BC ON S BANK E-W CONC-LINED DRAINAGE
DITCH & 2.7'N OF E-W CL FENCE ON N PROP LINE OF
ASSOC GROCERS STAMPED C] S33 T3S R66W LS 2132
1982 ELEV ON S EDGE CAP
NAVD88 ELEV: 5419.59



ASSOCIATED GROCERS OF
COLORADO FILING NO. 2
CITY OF AURORA, COUNTY OF ADAMS
PRELIMINARY DRAINAGE MAP

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Kimley-Horn and Associates, Inc.

PROJECT NO.
196772002

DRAWING NAME
196772002_DRN

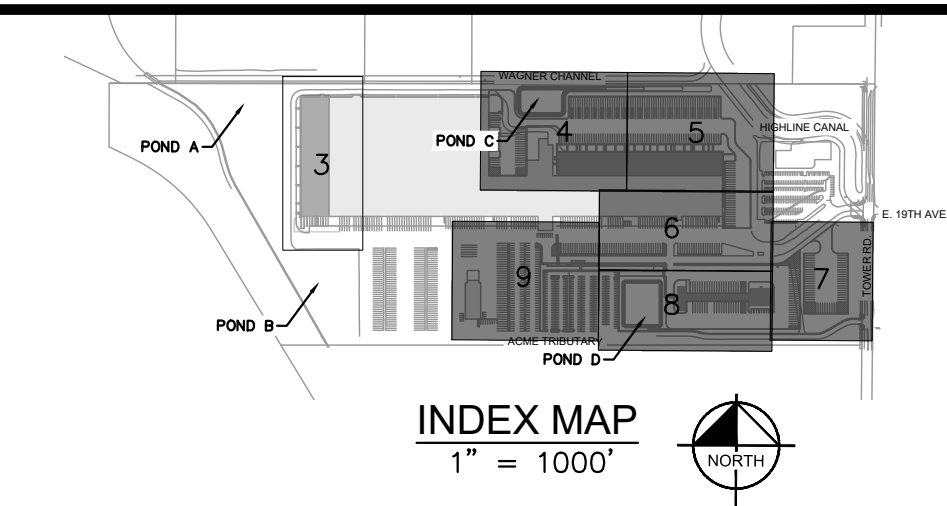
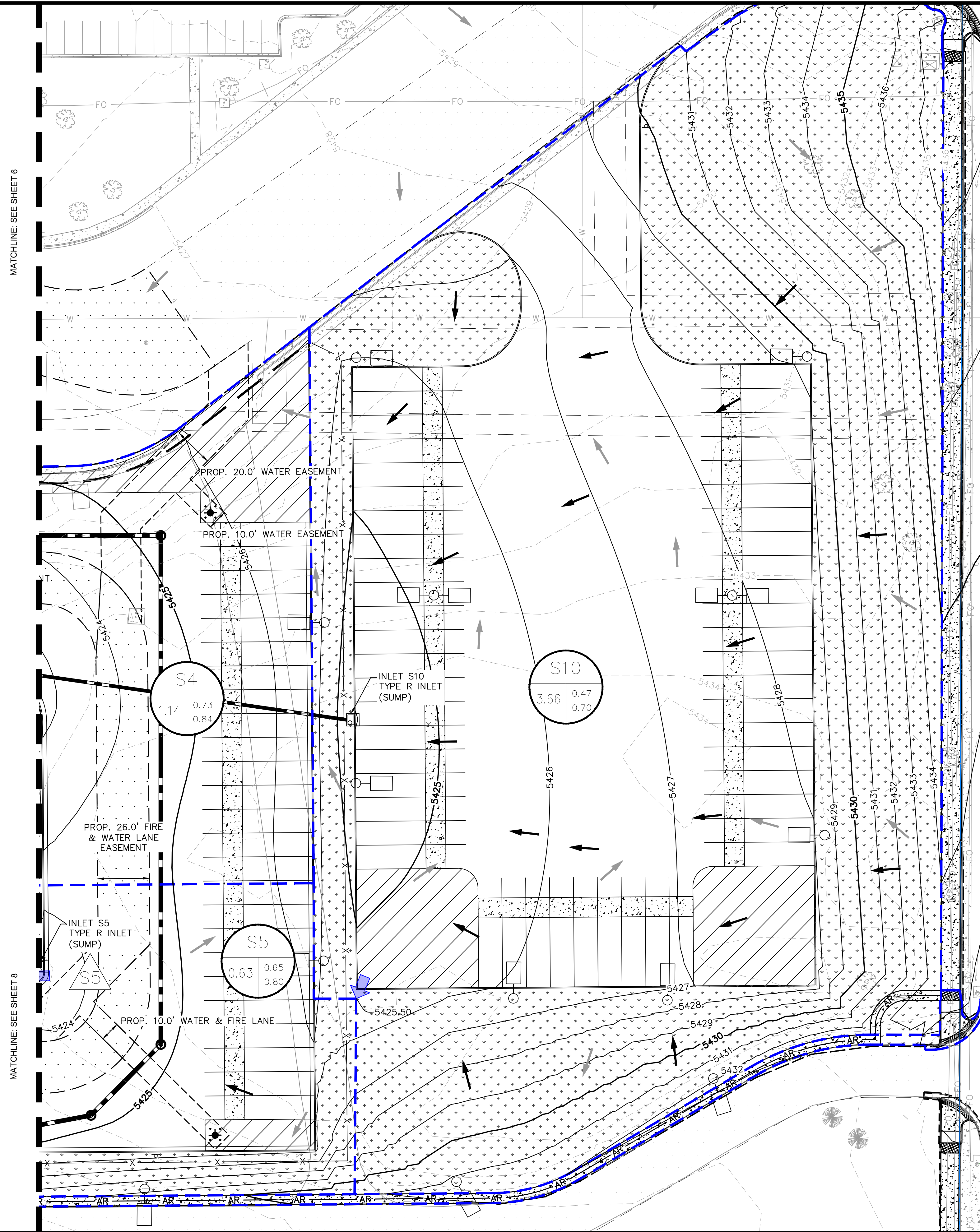
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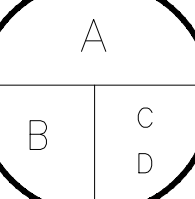
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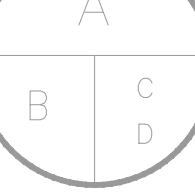
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6200 S. Syracuse Way, Suite 300
Greenwood Village, Colorado 80111 (303) 228-2300

DESIGNED BY: MTH
DRAWN BY: SPD
CHECKED BY: SAM
DATE: 4/19/24

REVISION
BY
DATE
APPR




- # LEGEND
- 


A
B
C
D
- 


A
B
C
D
- PROPOSED BASIN INFO:


 - A - BASIN ID
 - B - AREA (AC)
 - C - 2_YR RUNOFF COEFF.
 - D - 100_YR RUNOFF COEFF.
- EXISTING BASIN INFO:


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- PROPERTY LINE



- PROPOSED BASIN BOUNDARY


- EXISTING BASIN BOUNDARY


- PROPOSED FLOW ARROW

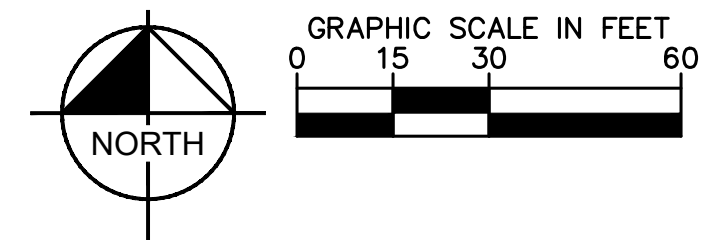

- EXISTING FLOW ARROW


- EMERGENCY OVERTFLOW ARROW



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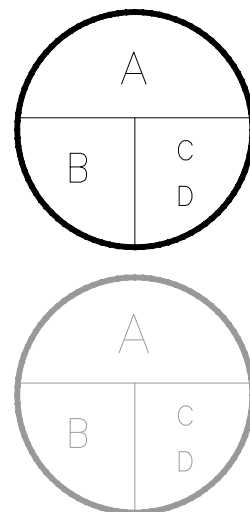
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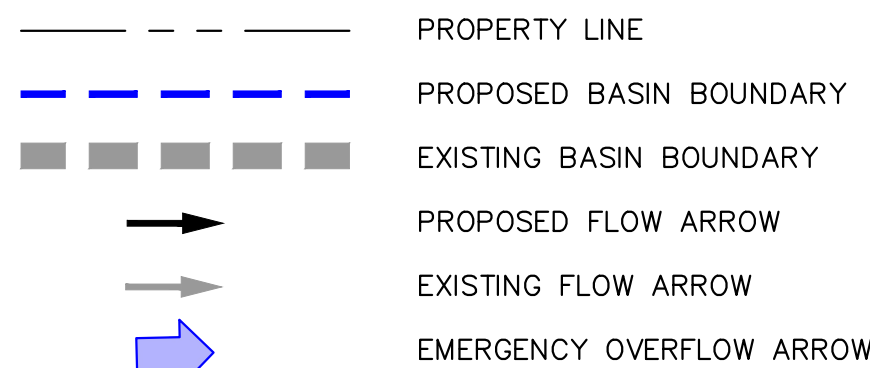
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LEGEND



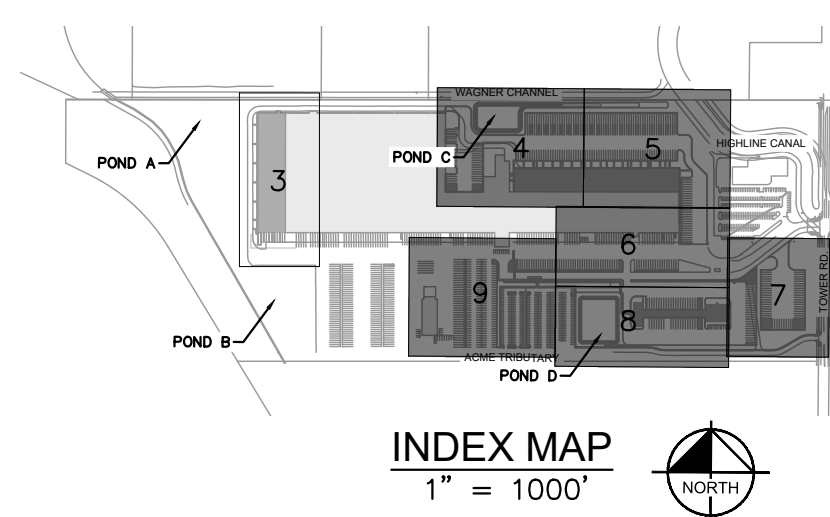
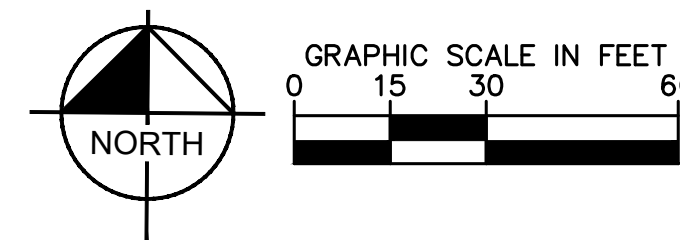
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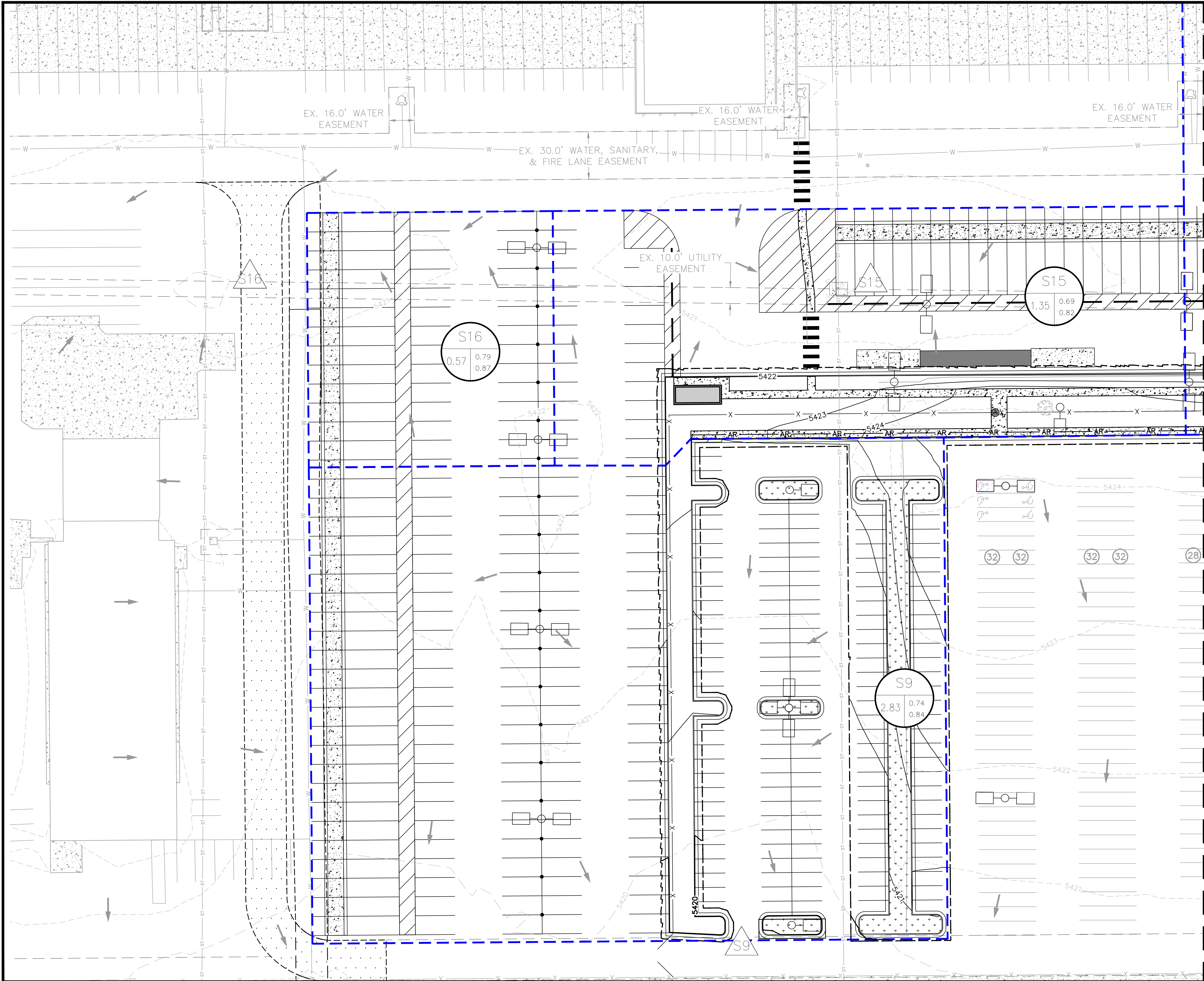
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INDEX MAP
1" = 1000'

LEGEND

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GRAPHIC SCALE IN FEET
0 15 30 60

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