

K:_VEN_Civil\196480001_Parklands Village 1\CAAD\Filing 1\Civil\Sheets\Preliminary Drainage Plan\PDP-CV-FIC-480001.dwg May 22, 2024 mayalewey
XREFS: XTB-SF-FIC-480001 EXMA-GS-PARCELS-BM-FI-480001 INSTRUMENT OF SERVICE IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE
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PRELIMINARY DRAINAGE PLAN
FOR
THE PARKLANDS VILLAGE 1, FILING NO. 2

LOCATED IN SECTION 20, TOWNSHIP 4 SOUTH, RANGE 65 WEST OF
THE 6TH PRINCIPAL MERIDIAN, CITY OF AURORA, COUNTY OF
ARAPAHOE, STATE OF COLORADO

CIVIL ENGINEER

KIMLEY-HORN AND ASSOCIATES, INC.
6200 S SYRACUSE WAY, #300
GREENWOOD VILLAGE, CO 80111
(720) 689-6653
CONTACT: LIAM SHANNON, PE

OWNER

NL PARKLANDS VILLAGE 4 LAND CO, LLC
8678 CONCORD CENTER DRIVE, #200
ENGLEWOOD, CO 80112
TELEPHONE: (303) 346-7006
CONTACT: THOMAS CLARK

DEVELOPER

VENTANA CAPITAL, INC.
8678 CONCORD CENTER DRIVE, #200
ENGLEWOOD, CO 80112
TELEPHONE: (303) 346-7006
CONTACT: THOMAS CLARK

PLANNER/LANDSCAPE ARCHITECT

TERRACINA DESIGN
10200 E GIRARD AVE #1-314
DENVER, CO 80231
(303) 623-8867
CONTACT: ANTHONY FILES

LAND SURVEYOR

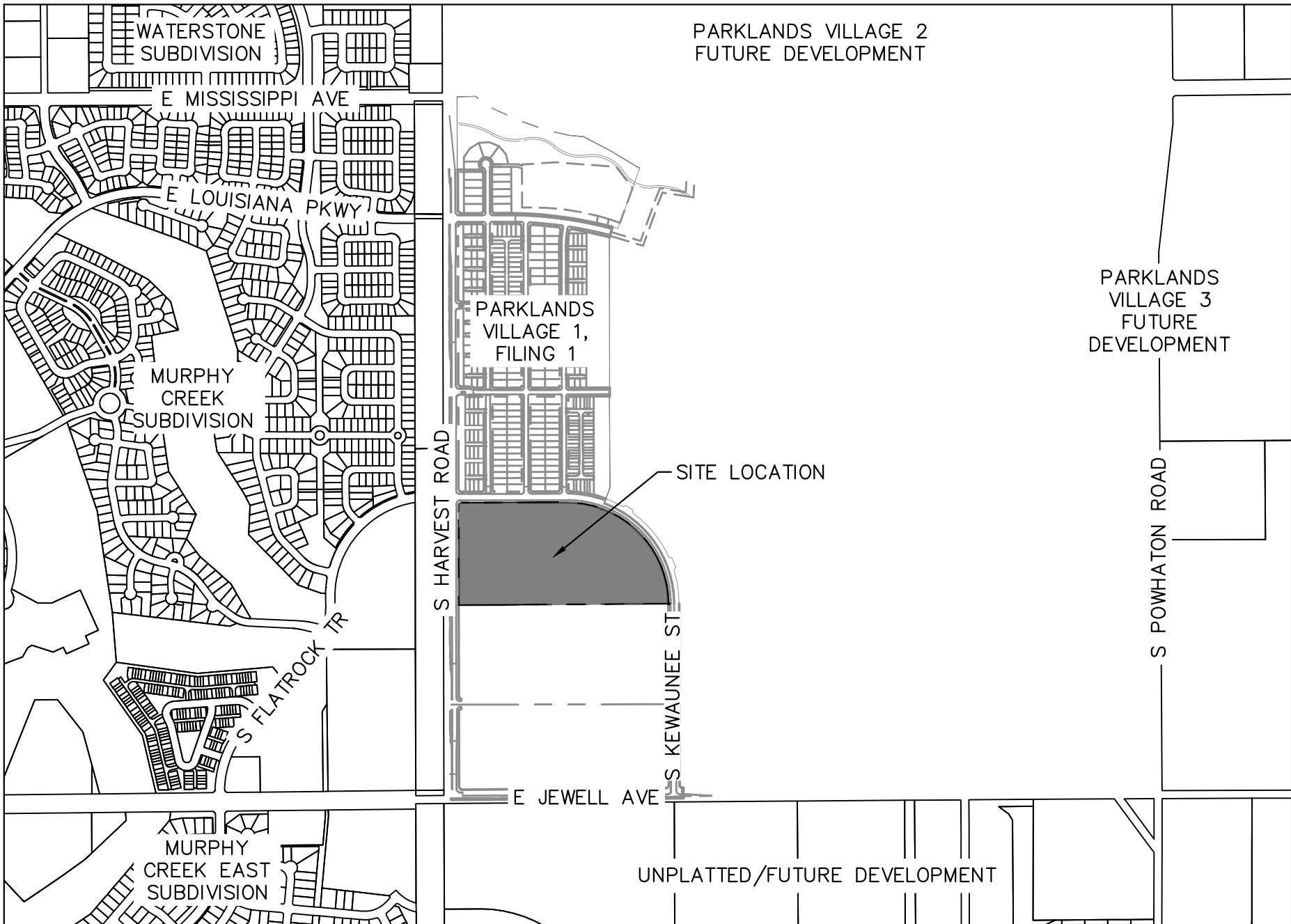
AZTEC CONSULTANTS INC.
300 EAST MINERAL AVENUE, SUITE 1
LITTLETON, COLORADO 80122
PHONE: (303) 713-1898
CONTACT: TONY PEALL, PLS

Kimley»Horn

PROJECT NAME: Parklands - Village 1 Filing No. 1C
PROJECT NUMBER: 196480001
CALCULATED BY: BAW
CHECKED BY: LNS
DATE: MAY 2024

RATIONAL CALCULATIONS SUMMARY

DESIGN POINT	TRIBUTARY BASINS	TRIBUTARY AREA (AC)	PEAK FLOWS (CFS)	
			Q2	Q100
On-Site Subbasins Draining to Basin A6 (Pond A)				
A 600	A 600	2.02	2.06	9.91
A 602	A 602	0.13	0.24	0.89
A 604	A 604	0.66	0.86	3.43
A 606	A 606	0.32	0.45	1.80
A 608	A 608	0.13	0.24	0.88
A 610	A 610	0.73	0.95	3.79
A 612	A 612	0.40	0.53	2.16
A 614	A 614	0.13	0.23	0.87
A 616	A 616	0.58	0.82	3.22
A 618	A 618	1.80	2.15	8.89
A 620	A 620	0.28	0.50	1.85
A 622	A 622	1.39	1.72	6.72
A 624	A 624	0.47	0.80	3.09
A 626	A 626	0.28	0.50	1.86
A 628	A 628	1.54	1.96	7.70
A 630	A 630	0.47	0.80	3.10
A 632	A 632	0.27	0.49	1.82
A 634	A 634	2.08	2.32	9.64
A 636	A 636	0.57	0.61	2.63
A 638	A 638	0.54	0.55	2.47
A 640	A 640	0.89	1.16	4.56
A 642	A 642	1.10	0.61	5.12
A 644	A 644	0.15	0.27	1.00
A 646	A 646	0.15	0.28	1.04
A 648	A 648	0.41	0.67	2.51
A 650	A 650	0.87	0.81	3.90
A 652	A 652	1.29	1.29	5.97
A 654	A 654	1.08	1.24	5.31
A 656	A 656	2.81	2.47	11.76
Basin A6 - Total		23.54	27.60	117.89
On-Site Subbasins Draining to Basin A5 (Pond A)				
A 500	A 500	1.71	2.69	9.70
A 502	A 502	2.13	2.84	11.27
A 510	A 510	0.77	1.20	4.52
A 518	A 518	0.74	1.20	4.44
A 520	A 520	0.59	1.02	3.66
Basin A5 - Total		5.94	8.96	33.58
Off-Site Subbasins Draining to Temporary Swales				
IA 600	IA 600	19.69	4.50	54.20
IA 602	IA 602	23.01	5.09	61.30
IA 604	IA 604	6.42	1.66	19.96



VICINITY MAP:

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	OVERALL EXISTING MAP
3	OVERALL PROPOSED MAP
4-5	PRELIMINARY DRAINAGE PLAN
6	OVERFLOW CROSS-SECTIONS

Approved For One Year From This Date

Aurora Water Drainage Division

Date

NOTE

CITY OF AURORA PLAN REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH CITY OF AURORA DESIGN CRITERIA AND THE CITY CODE. THE CITY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND ELEVATIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE. THE CITY OF AURORA, THROUGH THE APPROVAL OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

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APPLICANT UNDERSTANDS RECERTIFICATION MAY BE REQUIRED. IF A POND CERTIFICATE, AN EXECUTED I&M PLAN, OR DRAINAGE EASEMENTS DO NOT EXIST, THE APPLICANT WILL BE REQUIRED TO PROVIDE THESE PRIOR TO CIVIL PLAN APPROVAL.

SITE BENCHMARK

CITY OF AURORA BENCHMARK #456518SE002, BEING A 3" BRASS CAP ON SOUTH MOST CONC.LEG OF ANGLE POINT POWER TOWER BEING ON NORTH SIDE OF MISSISSIPPI AVE. AND IN LINE WITH THE W. SIDE OF HARVEST RD. TO THE NORTH. NOTE: ELEV. TAKEN AT PUNCH MARK AT THE CENTER OF BRASS CAP. AKA 21-060.

ELEVATION = 5579.67' (NAVD88).

NOTE

PROPOSED PUBLIC ON-SITE STORM DRAIN NETWORK DESIGNED FOR 2-YEAR STORM AND 100-YEAR STORM FREQUENCIES.

THE MAJORITY OF THE SITE FALLS WITHIN ZONE X AND A SMALL PORTION OF THE SITE FALLS WITHIN ZONE AE ACCORDING TO FEMA FIRM MAP NUMBER 08005C PANEL 0204K AND 08005C 0212K EFFECTIVE 12/17/2010.



THE PARKLANDS
VILLAGE 1 - FILING NO. 2
COVER SHEET
PRELIMINARY DRAINAGE PLAN

Kimley»Horn

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6200 SOUTH SYRACUSE WAY, SUITE 300
GREENWOOD VILLAGE, CO 80111 (303) 228-2300

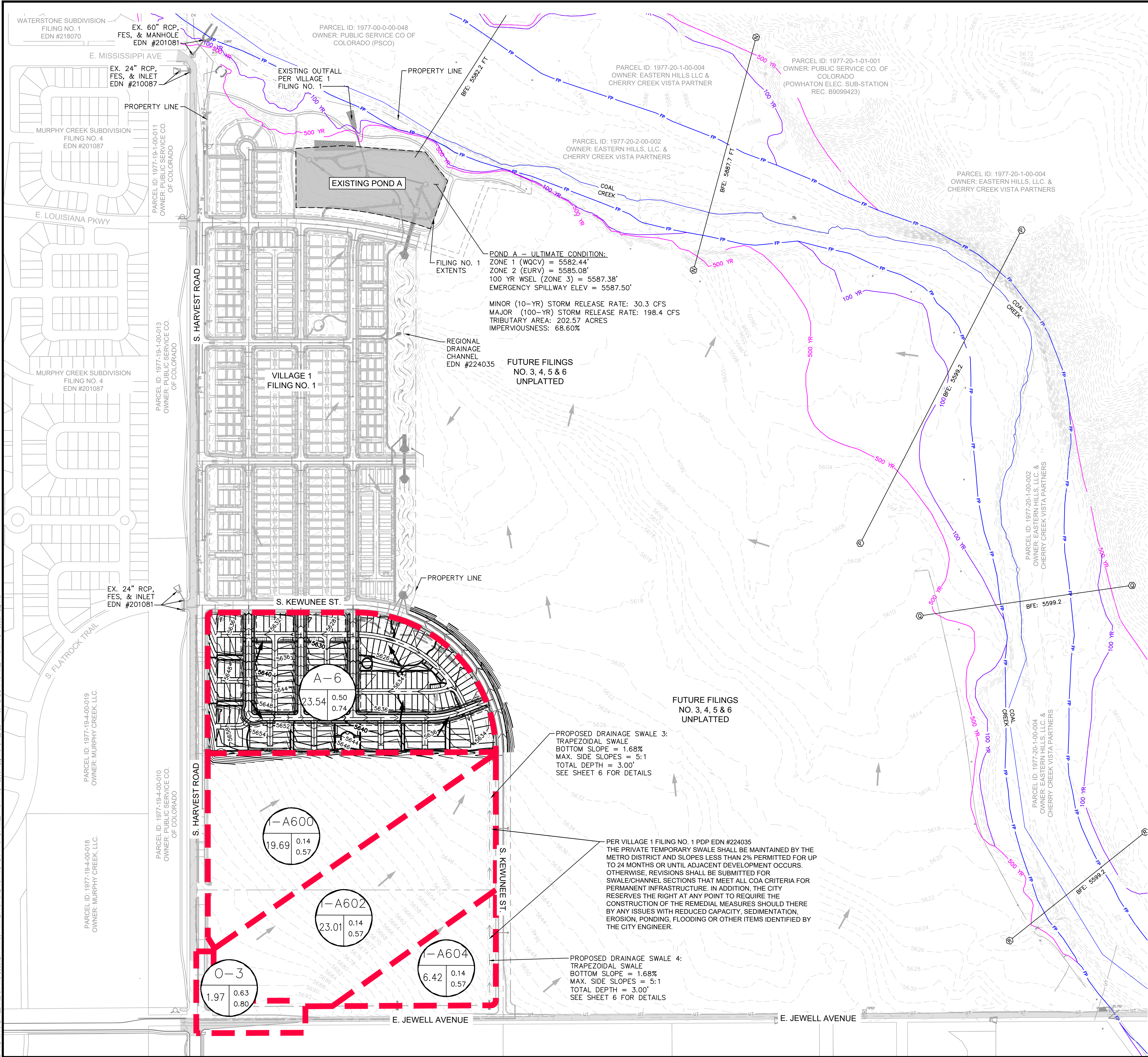
1ST SUBMITTAL
SITE PLAN.
FOR CITY REVIEW
ONLY. NOT FOR
CONSTRUCTION.

DESIGNED BAW/HJR	DRAWN BAW/HJR	CHECKED LNS
SCALE (H): N/A SCALE (V): N/A		
DATE: MAY 2024		SHEET NO. 1
PROJECT NO. 196480001		
DWG. NAME PDP-CV-FIC-480001.dwg		

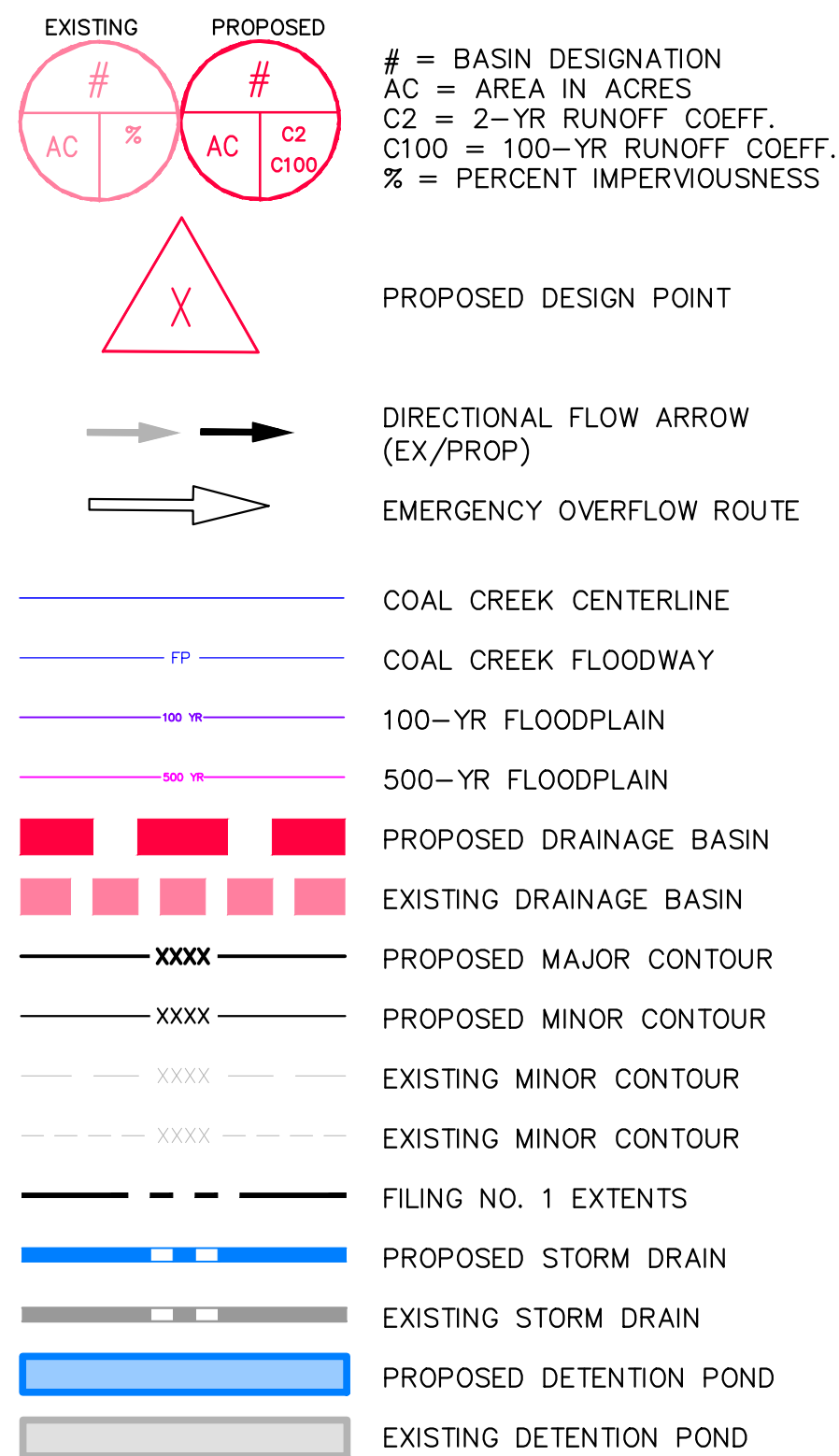
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CASE NO.: TBD

K:\VEN_Civil\196480001_Parklands Village 1\CAD\196480001_Preliminary Drainage Plan\196480001.dwg, May 22, 2024, mja.lewey
XREFS: 220705-Parklands-Concept_Lotting_EMA-65-PARCELS WF-480001_XBM-F1C-480001_XBM-F1C-480001_XBM-F1C-480001
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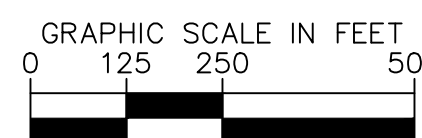
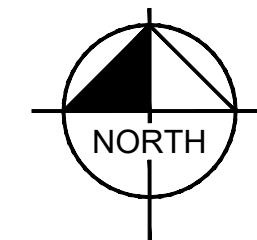


LEGEND:



NOTES:

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 - PROPOSED PUBLIC ON-SITE STORM DRAIN PIPES TO CONVEY THE MINOR (Q2) STORM WITHOUT SURCHARGING AND MAJOR (Q100) STORM MAXIMUM SURCHARGING TO BE A MINIMUM OF ONE-FT BELOW PROPOSED GRADE. PROPOSED STORM DRAIN SYSTEM IS PUBLIC UNLESS STATED OTHERWISE.
 - ALL FFES SHALL BE A MIN OF 1-FT ABOVE EMERGENCY WSEL. ALL GARAGES SHALL BE A MINIMUM OF 0-FT ABOVE EMERGENCY WSEL.
 - THE MAJORITY OF THE SITE FALLS WITHIN ZONE X AND A SMALL PORTION OF THE SITE FALLS WITHIN ZONE AE ACCORDING TO FEMA FIRM MAP #08005C PANEL 0204K AND #08005C PANEL 0212K EFFECTIVE 12/17/2010.
- SITE BENCHMARK**
- CITY OF AURORA BENCHMARK #456518SE002, BEING A 3" BRASS CAP ON SOUTH MOST CONC.LEG OF ANGLE POINT POWER TOWER BEING ON NORTH SIDE OF MISSISSIPPI AVE. AND IN LINE WITH THE W. SIDE OF HARVEST RD. TO THE NORTH. NOTE: ELEV. TAKEN AT PUNCH MARK AT THE CENTER OF BRASS CAP. AKA 21-060.
- ELEVATION = 5579.67' (NAVD88).



THE PARKLANDS VILLAGE 1 - FILING NO. 2 OVERALL DRAINAGE MAP - PROPOSED PRELIMINARY DRAINAGE PLAN

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GREENWOOD VILLAGE, CO 80111 (303) 228-2300

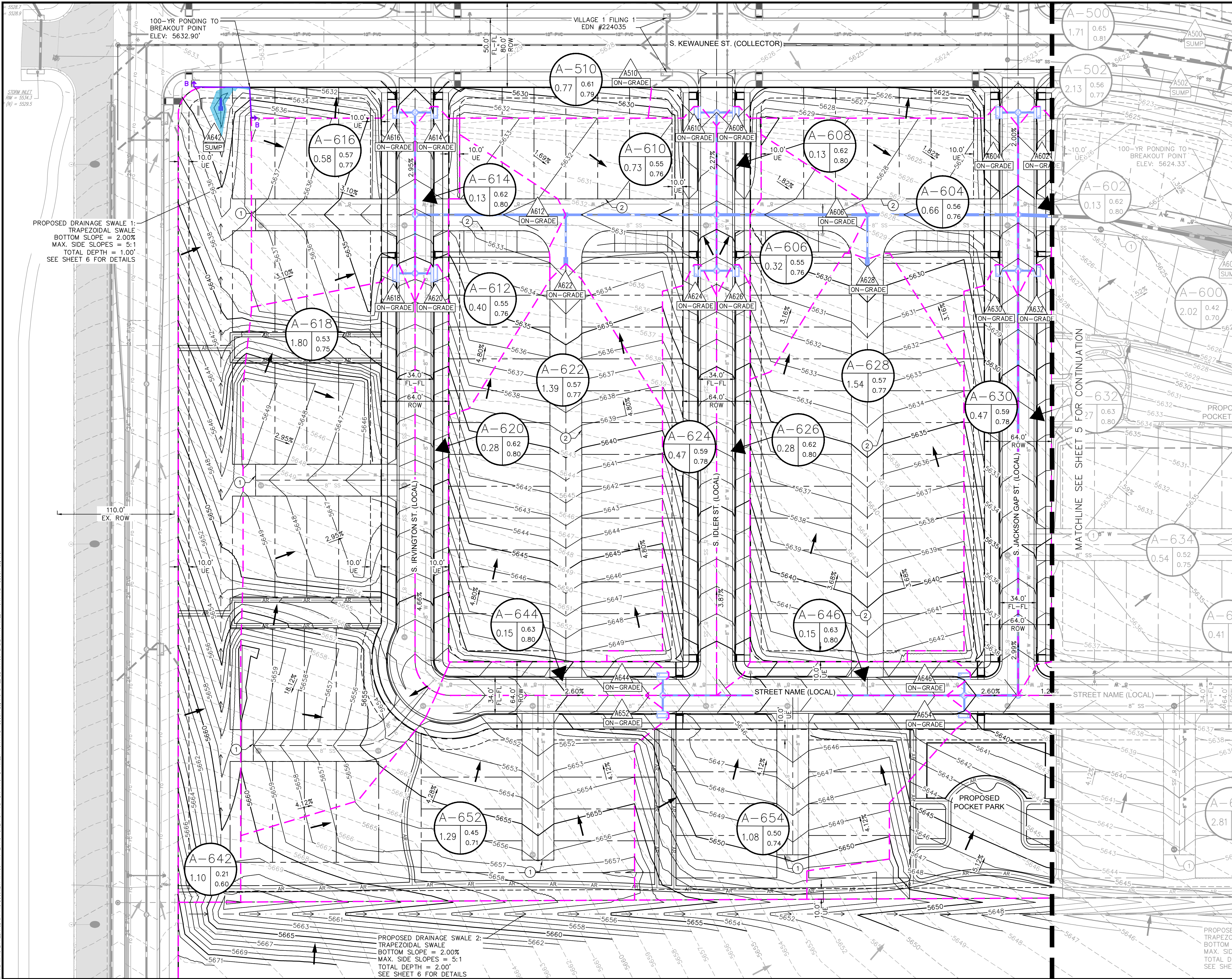
**1ST SUBMITTAL
SITE PLAN.
FOR CITY REVIEW
ONLY. NOT FOR
CONSTRUCTION.**

DESIGNED BAW/HJR	DRAWN BAW/HJR	CHECKED LNS
SCALE (H): N/A SCALE (V): N/A		
DATE: MAY 2024		SHEET NO. 3
PROJECT NO. 196480001		
DWG. NAME PDP-OV-F1C-480001.dwg		

FLOODPLAIN DEVELOPMENT NOTE:
A FLOODPLAIN DEVELOPMENT PERMIT IS REQUIRED PRIOR TO ANY WORK WITHIN THE FLOODPLAIN. NO FILL, NO STOCKPILING OF MATERIAL, OR STORAGE OF EQUIPMENT WILL BE PERMITTED IN THE FLOODWAY WITHOUT A CLOMR OR A NO RISE ANALYSIS INCLUDED WITHIN THE FLOODPLAIN DEVELOPMENT PERMIT.

CASE NO.: TBD

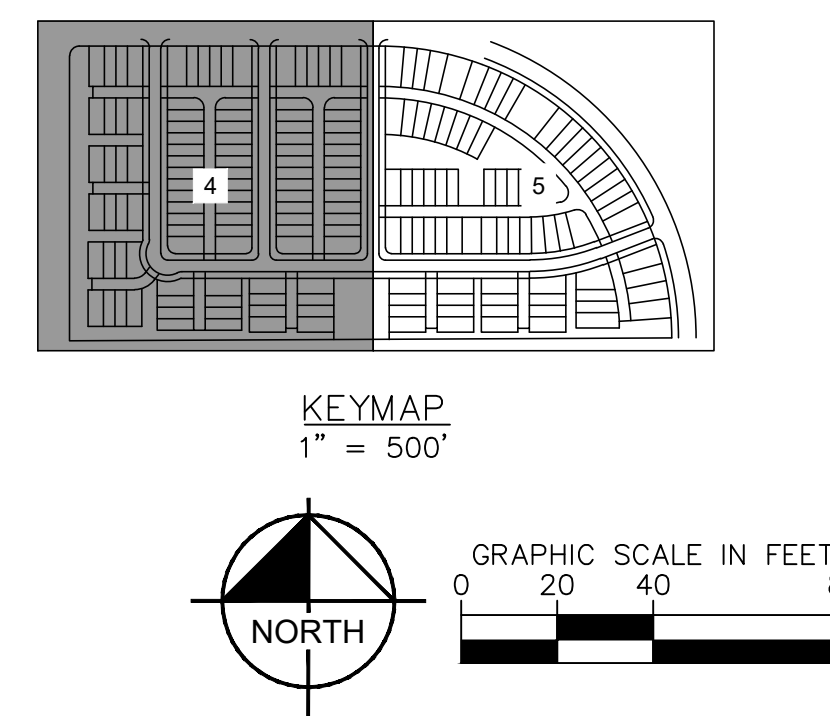
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OF AND WERE RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.



PROPOSED DRAINAGE LEGEND

- # = BASIN DESIGNATION
AC = AREA IN ACRES
C2 = 2-YR RUNOFF COEFFICIENT
C100 = 100-YR RUNOFF COEFFICIENT
- # = DESIGN POINT
- PROPOSED BASIN BOUNDARY
- EXISTING BASIN BOUNDARY
- PROPOSED FLOW ARROW
- EMERGENCY OVERFLOW ARROW
- MAX SUMP INLET PONDING
- EMERGENCY OVERFLOW CROSS-SECTION
- COAL CREEK CENTERLINE
- COAL CREEK FLOODWAY
- 100-YR FLOODPLAIN
- 500-YR FLOODPLAIN
- EXISTING STORM PIPE
- PROPOSED PRIVATE STORM PIPE
- PROPOSED PRIVATE TYPE 13 INLET
- PROPOSED PUBLIC STORM PIPE
- PROPOSED PUBLIC STORM MANHOLE
- PROPOSED PUBLIC TYPE-R INLET
- PROPOSED PUBLIC TYPE 13 INLET

- SITE PLAN NOTES:**
- 30.0' FIRE LANE, DRAINAGE, ACCESS, & UTILITY EASEMENT.
 - 30.0' ACCESS, DRAINAGE, & UTILITY EASEMENT.
- NOTES:**
- CITY OF AURORA PLAN REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH CITY OF AURORA DESIGN CRITERIA AND THE CITY CODE. THE CITY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND ELEVATIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE. THE CITY OF AURORA, THROUGH THE APPROVAL OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.
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 - ALL FEES SHALL BE A MIN. OF 1-FT ABOVE EMERGENCY WSEL. ALL GARAGES MUST BE ABOVE THE EMERGENCY WSEL, NOT TO BE INUNDATED.
 - THE MAJORITY OF THE SITE FALLS WITHIN ZONE X AND A SMALL PORTION OF THE SITE FALLS WITHIN ZONE AE ACCORDING TO FEMA FIRM MAP #08005C PANEL 0208L AND #08005C PANEL 0216M EFFECTIVE 2017 AND 2020 RESPECTIVELY; AND, LOMR21-08-0331P EFFECTIVE APRIL 2022.
- SITE BENCHMARK**
- CITY OF AURORA BENCHMARK #4S6518SE002. BEING A 3" BRASS CAP ON SOUTH MOST CONC. LEG. OF ANGLE POINT POWER TOWER BEING ON NORTH SIDE OF MISSISSIPPI AVE. AND IN LINE WITH THE W. SIDE OF HARVEST RD. TO THE NORTH. NOTE: ELEV. TAKEN AT PUNCH MARK AT THE CENTER OF BRASS CAP. AKA 21-060.
- ELEVATION = 5579.67' (NAVD88).



811 Know what's below. Call before you dig.

THE PARKLANDS
VILLAGE 1 - FILING NO. 2
PRELIMINARY DRAINAGE PLAN
PRELIMINARY DRAINAGE PLAN

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GREENWOOD VILLAGE, CO 80111 (303) 228-2300

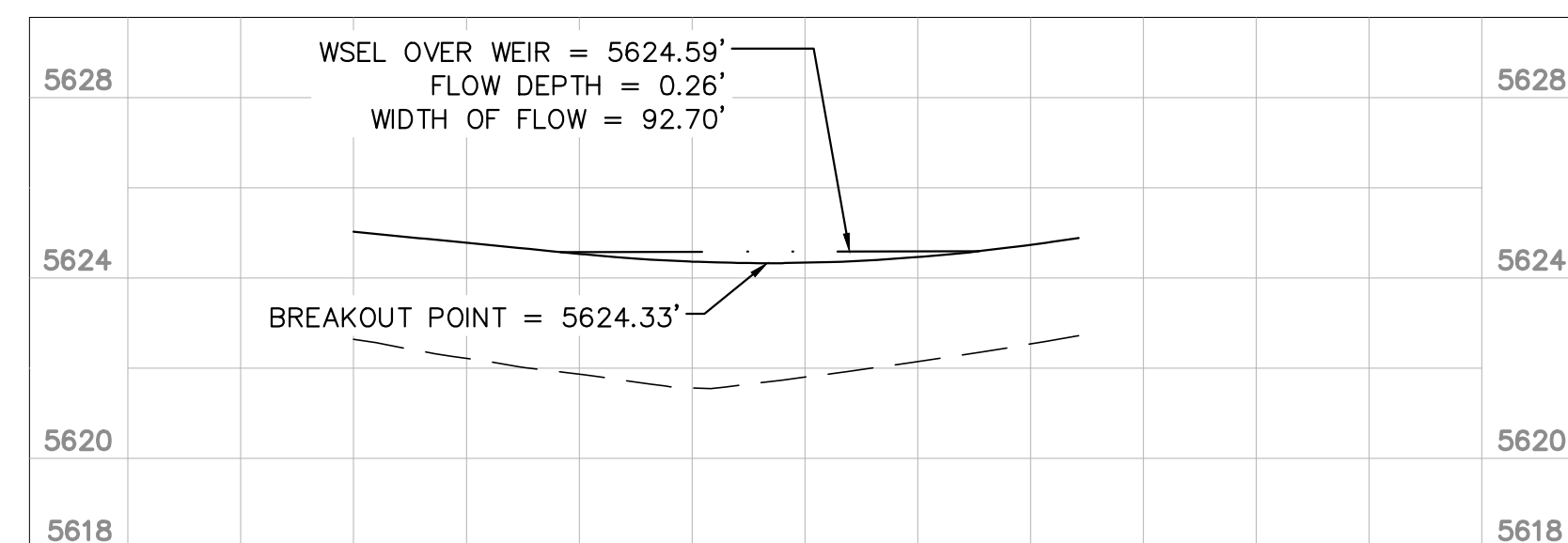
DESIGNED	DRAWN	CHECKED
BAW/HJR	BAW/HJR	LNS
SCALE (H): N/A	SCALE (H): N/A	SCALE (V): N/A
DATE:	MAY 2024	
PROJECT NO.	196480001	
DWG. NAME	PDP-FIC-480001.dwg	

1ST SUBMITTAL
SITE PLAN.
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SHEET NO.
4
of 6 sheets

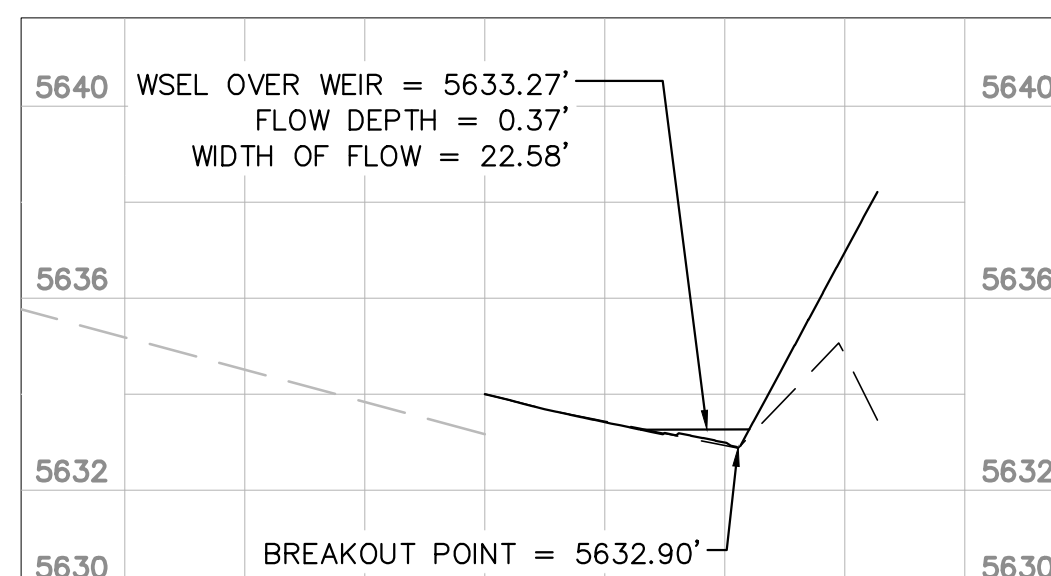
CASE NO.: TBD

SECTION A-A OVERFLOW (Q=9.91 CFS)



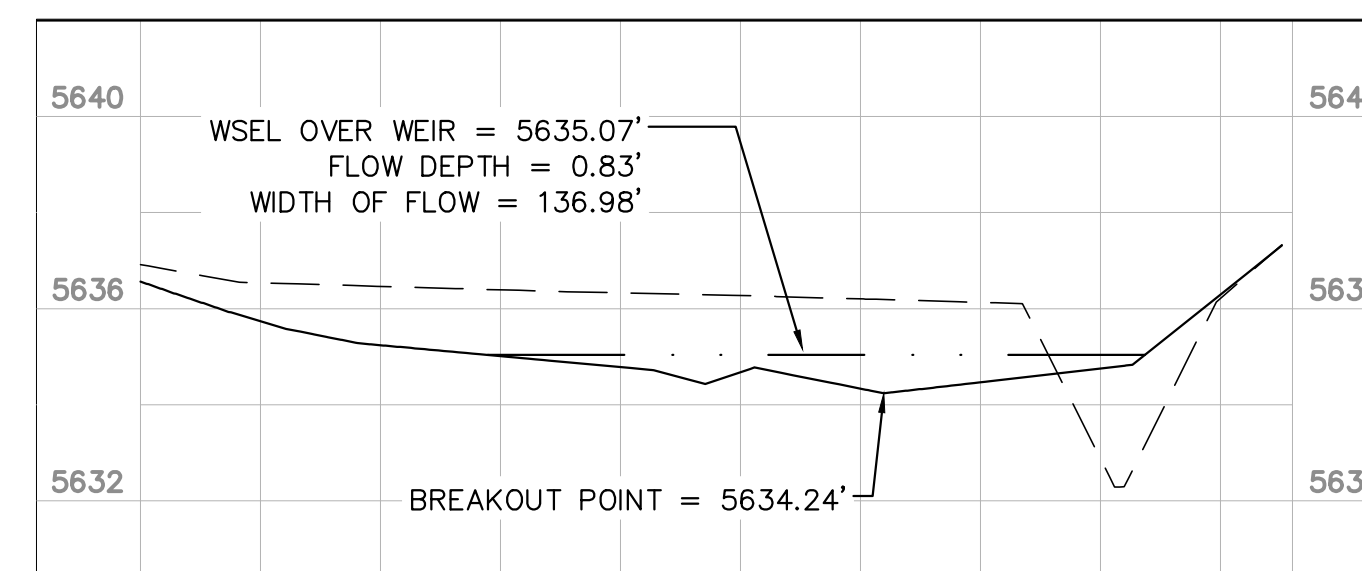
ADJACENT BUILDING MIN FFE: 5625.93'
FREEBOARD: 1.34'

SECTION B-B OVERFLOW (Q=5.12 CFS)



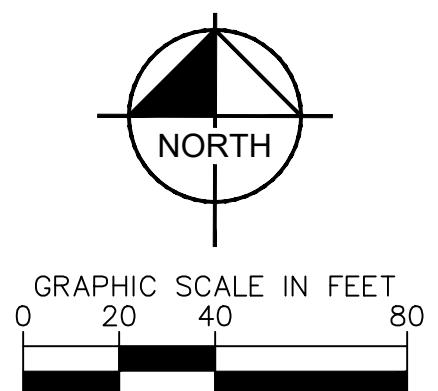
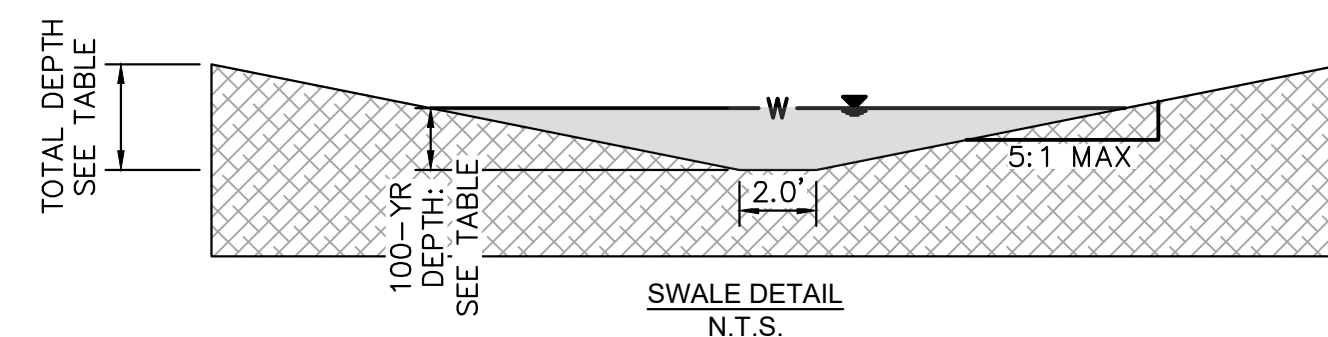
ADJACENT BUILDING MIN FFE: 5637.54'
FREEBOARD: 4.27'


SECTION C-C OVERFLOW (Q=135.47 CFS)



ADJACENT BUILDING MIN FFE: 5636.40'
FREEBOARD: 1.33'

SWALE INFORMATION:						
SWALE	SWALE SLOPE	TOTAL SWALE DEPTH (IN)	LEFT SLOPE	RIGHT SLOPE	100-YR STORM Q (CFS)	100-YR STORM DEPTH (IN)
1	2.00%	12	1:5 MAX	1:5 MAX	5.12	7.50
2	2.00%	24	1:5 MAX	1:5 MAX	54.20	20.80
3	1.68%	36	1:5 MAX	1:5 MAX	81.27	25.50
4	1.68%	36	1:5 MAX	1:5 MAX	19.96	14.20



 Know what's below. Call before you dig.																			
<h2 style="margin: 0;">THE PARKLANDS</h2> <h3 style="margin: 0;">VILLAGE 1 - FILING NO. 2</h3> <h2 style="margin: 0;">OVERFLOW CROSS-SECTIONS</h2> <h3 style="margin: 0;">PRELIMINARY DRAINAGE PLAN</h3>																			
<h1 style="margin: 0;">Kimley»Horn</h1>																			
<p>© 2024 KIMLEY-HORN AND ASSOCIATES, INC. 6200 SOUTH SYRACUSE WAY, SUITE 300 GREENWOOD VILLAGE, CO 80111 (303) 228-2300</p>																			
<p>1ST SUBMITTAL SITE PLAN. FOR CITY REVIEW ONLY. NOT FOR CONSTRUCTION.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="padding: 5px;">DESIGNED</th> <th style="padding: 5px;">DRAWN</th> <th style="padding: 5px;">CHECKED</th> </tr> <tr> <td style="padding: 5px;">BAW/HJR</td> <td style="padding: 5px;">BAW/HJR</td> <td style="padding: 5px;">LNS</td> </tr> <tr> <td colspan="3" style="padding: 5px;">SCALE (H): N/A SCALE (V): N/A</td> </tr> <tr> <td colspan="2" style="padding: 5px;">DATE: <div style="text-align: center; margin-top: 5px;">MAY 2024</div></td> <td style="padding: 5px;">SHEET NO.</td> </tr> <tr> <td colspan="2" style="padding: 5px;">PROJECT NO. <div style="text-align: center; margin-top: 5px;">196480001</div></td> <td rowspan="2" style="padding: 5px; text-align: center; vertical-align: middle; font-size: 2em; font-weight: bold;">6</td> </tr> <tr> <td colspan="2" style="padding: 5px;">DWG. NAME <div style="text-align: center; margin-top: 5px;">PDP-P1C-480001.dwg</div></td> </tr> </table>	DESIGNED	DRAWN	CHECKED	BAW/HJR	BAW/HJR	LNS	SCALE (H): N/A SCALE (V): N/A			DATE: <div style="text-align: center; margin-top: 5px;">MAY 2024</div>		SHEET NO.	PROJECT NO. <div style="text-align: center; margin-top: 5px;">196480001</div>		6	DWG. NAME <div style="text-align: center; margin-top: 5px;">PDP-P1C-480001.dwg</div>		<div style="font-size: 1.5em; font-weight: bold; margin-bottom: 10px;">of 6 sheets</div>
DESIGNED	DRAWN	CHECKED																	
BAW/HJR	BAW/HJR	LNS																	
SCALE (H): N/A SCALE (V): N/A																			
DATE: <div style="text-align: center; margin-top: 5px;">MAY 2024</div>		SHEET NO.																	
PROJECT NO. <div style="text-align: center; margin-top: 5px;">196480001</div>		6																	
DWG. NAME <div style="text-align: center; margin-top: 5px;">PDP-P1C-480001.dwg</div>																			

CASE NO.: TBD

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