



Planning Division
15151 E. Alameda Parkway, Ste. 2300
Aurora, Colorado 80012
303.739.7250

Worth Discovering • auroragov.org

April 23, 2020

Ted Laudick
Aurora High Point at DIA Metropolitan District
4100 E Mississippi Avenue, Suite 500
Denver, CO 80246

Re: Initial Submission Review: Possum Gully Channel and Pond – Infrastructure Site Plan and Final Plat
Application Number: DA-1746-23
Case Numbers: 2020-6012-00; 2020-3015-00

Dear Mr. Laudick:

Thank you for your initial submission, which we started to process on Monday, March 30, 2020. We reviewed it and attached our comments along with this cover letter. This letter contains comments from all city departments and outside agencies.

Since many important issues remain, you will need to make another submission. Please revise your previous work and send us a new submission at your convenience. Please note that a Landscape Plan and a Subdivision Plat must be uploaded with the next submittal.

Note that all our comments are numbered. When you resubmit, include a cover letter specifically responding to each item. The Planning Department reserves the right to reject any resubmissions that fail to address these items. If you have made any other changes to your documents other than those requested, be sure to also specifically list them in your letter.

As always, if you have any comments or concerns, please give me a call. I may be reached at 303-739-7857.

Sincerely,

Sarah Wile, Senior Planner
City of Aurora
Planning and Development Services Department

cc: Ryan Byrne, Martin Martin Consulting Engineers, 12499 W Colfax Avenue, Lakewood, CO 80215
Meg Allen, Neighborhood Liaison
Cesarina Dancy, ODA
Filed: K:\SDA\1746-23rev1.rtf



First Submission Review

1. Planning (Sarah Wile / 303-739-7857 / swile@auroragov.org / Comments in teal)

1A. Please update the Letter of Introduction to include additional details. See redline comments.

1B. As previously discussed, the second submittal of the application must include a Landscape Plan that complies with the UDO, the trail design as required by PROS, and a Subdivision Plat. The next submittal will not be accepted if all elements are not included.

1C. Please update the title of the ISP to be consistent with the Development Application name: “Possum Gully Channel and Pond – Infrastructure Site Plan.” This should be reflected on all sheets.

1D. Include additional labels on the Vicinity Map per redline comments.

1E. Update the Data Block to account for all acreage within the ISP.

1F. Please remove all industrial buildings from the base layer on Sheet 2. These have not been submitted and/or approved by the city yet.

1G. Clarify how you are proposing to construct the Possum Gully channel when there is supposed to be a 32-well oil and gas pad site within the channel per the most recent Master Plan submittal (see Sheet 2). Multi-well pads can take years to drill and the pad appears to be within the channel itself. What happens if the channel is constructed before the site is constructed / drilled? This must be resolved with Aurora Water, Public Works and Planning prior to the next submittal. In addition, please provide additional information about what the Surface Use Agreement says about this conflict.

1H. Review and update notes on Sheet 2 to reflect this submittal.

1I. Please remove colored lines on Sheet 5. Mylars are recorded in black and white, so patterns or symbols should be used to identify the limits of the areas instead of different colors.

1J. Please identify the location of the bridge that is supposed to connect PA-28a to the industrial areas east of Possum Gully. This location needs to be shown with the next submittal as there needs to be a street connection between the two sides.

1K. As a reminder, the city has developed CAD Data Submittal Standards for internal and external use to streamline the process of importing AutoCAD information into the city’s Enterprise GIS. Please note that a digital submission meeting the [CAD Data Submittal Standards](#) is required before your final Infrastructure Site Plan and Subdivision Plat mylars can be routed for signatures or recorded. Please review the CAD Data Submittal Standards and email the .DWG file to your Case Manager before submitting your final mylars.

2. Landscaping (Kelly Bish / 303-739-7189 / kbish@auroragov.org / Comments in bright teal)

2A. Change the note on the Cover Sheet to state: “Landscaping for the curbside landscape areas on both sides of 66th Avenue shall be installed following the construction of 66th Avenue. Landscaping for the Possum Gully channel and pond shall be installed following the completion of the channel and pond work. Should this occur outside of the normal planting season, plant installation shall occur immediately thereafter. All plantings shall be installed per the approved Landscape Plan.”

2B. A Landscape Plan is required as part of the ISP, but should not be submitted until the final design of the channel and pond have been coordinated and conceptually approved by Aurora Water, Public Works, and MHFD. The second submittal of the application should be delayed until this occurs.



2C. Provide street trees (1 every 40 linear feet for both sides) and curbside plantings are required along 66th Avenue. Because the curbside landscape area is only 8.5' wide, sod is not permitted. Refer to Section 146-4.8.7.5.C for permissible plantings.

3. Civil Engineering (Kristin Tanabe / 303-739-7306 / ktanabe@auroragov.org / Comments in green)

3A. Remove the reference to Denali Street on Sheet 2.

3B. Any phasing must be identified in the ISP.

3C. Label the radius of the temporary turn-around of 66th Avenue.

3D. Label all slopes.

3E. Show and label tract boundaries and easements.

4. Aurora Water (Casey Ballard / 303-739-7382 / cballard@auroragov.org / Comments in red)

4A. Provide pond design information, including volume, inflow rate, release rate, etc.

4B. Possum Gully is going to be publicly owned. Any encroachment, such as private water quality pond outlets, require a license agreement.

4C. Maintenance access is needed to the top of the outlet structures.

4D. Is there a benefit to providing a separate access instead of utilizing the channel access?

4E. Provide a cross section of access paths for the channel access and maintenance access.

4F. The channel must be MEP eligible as determined by MHFD. Ensure that all comments from MHFD are fully addressed before resubmitting the ISP.

4G. Include the water surface elevations for the minor and major storm events. This should be included in the typical sections.

4H. Where is the property boundary for the drainage tract on the west side of the channel?

4I. Easements will be needed where the access path leaves the drainage tract.

4J. Access around the pond is required.

4K. Show floodplain limits.

5. PROS (Michelle Teller / 303-739-7437 / mteller@auroragov.org / Comments in purple)

5A. With the next submittal, the following must be included: 1) Define the extent of the open space boundary and the updated acreage. Note that the acreage dedicated may only be outside of the floodplain as defined with MHFD; 2) Identify pedestrian crossing locations to bring users from the west side of Possum Gully back to the east to connect with the rest of the network. Note that a bridge was previously discussed with this project and is still expected; and 3) A landscape plan which identifies enhancements to the open space per Form J of the Master Plan. This shall include restoration with native seed mix, native shrub groupings, and trail amenities such as benches, trash receptacles, and security lighting at access points.



5B. A shared use trail with Aurora Water for the Possum Gully trail is being proposed. In order to meet dedication standards, the trail must be designed with the following: 1) Must be a stabilized surface such as crusher fines or concrete. Please refer to Aurora Water for material preference; 2) Must have a minimum 6" depth, per ADA the cross slope may not exceed 2% and the longitudinal slope may not exceed 5%; 3) Include PROS standard trail detail, whichever is applicable per the required material. Note that the trail shall still remain 12' minimum per Aurora Water requirements but must meet all other PROS requirements; and 4) If the open space trail corridor is shared use with Aurora Water, please verify that the required amenities as listed above will be allowed within their easement. If so, the corridor may be dedicated open space. If not, further discussion may need to occur about the trail location.

5C. The extent of the open space shall be defined with the next submittal after coordination with MHFD. Note that in order for the water access path to be a shared use trail and count as the ultimate Possum Gully trail, it will need to meet PROS criteria.

5D. You are currently showing a culvert under 64th Avenue for the channel. A trail underpass should be accommodated at this location for the Possum Gully trail / potential shared use maintenance access.

6. Real Property (Maurice Brooks / 303-739-7294 / mbrooks@auroragov.org / Comments in magenta)

6A. Please upload the Subdivision Plat with the next submittal so that detailed comments can be provided on both the ISP and Subdivision Plat.

6B. If license agreements for are required for any encroachments, please coordinate with Grace Gray.

7. Revenue (Diana Porter / 303-739-7395 / dsporter@auroragov.org)

7A. The Storm Drainage Development Fee will be determined once the Subdivision Plat is submitted.

8. E-470 Highway Authority (Peggy Davenport / 303-537-3727 / pdavenport@e-470.com)

8A. Occupying space for utility work, access, and any construction within the E-470 ROW and MUE (multi-use easement) is subject to and will be in compliance with the E-470 Public Highway Authority Permit Manual, April 2008, as may be amended from time to time (the "Permit Manual") and will require an E-470 Construction or Access Permit. The administration fee is \$750.00 and \$75,000 per acre for construction.

8B. A permit (<https://www.e-470.com/Pages/WorkingWithUs/Permits.aspx>) will be required from E-470 for any encroachment or disturbance to E-470 ROW or MUE prior to construction.

8C. Clearly label the ROW and MUE on all applicable drawings.

8D. E-470 will be widened in the future to 4 lanes each direction.

8E. Any proposed utility crossings of E-470 will be required to be bored across the highway from ROW to ROW unless otherwise agreed upon.

8F. Additional comments will be issued as design progresses.

9. Xcel Energy (Donna George / 303-571-3306 / donna.l.george@xcelenergy.com)

9A. See the attached comment letter.

10. Mile High Flood District (Morgan Lynch / 303-455-6277 / mlynch@udfcd.org)

10A. See the attached comment letter.



Right of Way & Permits

1123 West 3rd Avenue
Denver, Colorado 80223
Telephone: **303.571.3306**
Facsimile: 303. 571. 3284
donna.l.george@xcelenergy.com

April 16, 2020

City of Aurora Planning and Development Services
15151 E. Alameda Parkway, 2nd Floor
Aurora, CO 80012

Attn:

Re: Possum Gully Channel and Pond, Case # DA-1746-23

Public Service Company of Colorado's (PSCo) Right of Way & Permits Referral Desk has reviewed the infrastructure site plans for **Possum Gully Channel and Pond**. Please be aware PSCo owns and operates existing underground electric distribution facilities along the future East 64th Avenue right-of-way, and requests that they are shown on the plans.

As a safety precaution, PSCo would like to remind the developer to call the Utility Notification Center by dialing 811 for utility locates prior to construction.

PSCo requests that the final plat is uploaded to Aurora's website for the second referral period.

Should the project require any new natural gas or electric service or modification to existing facilities, the property owner/developer/contractor must complete the application process via xcelenergy.com/InstallAndConnect.

Donna George
Right of Way and Permits
Public Service Company of Colorado dba Xcel Energy
Office: 303-571-3306 – Email: donna.l.george@xcelenergy.com

MAINTENANCE ELIGIBILITY PROGRAM (MEP)

MHFD Referral Review Comments

For Internal MHFD Use Only.	
MEP ID:	107883
Submittal ID:	10004613
MEP Phase:	Referral

Date: April 17, 2020
To: Public Works
Via email
RE: MHFD Referral Review Comments

Project Name:	High Point East – Infrastructure Site Plan (Project Number 1444279)
Location:	Aurora
Drainageway:	Possum Gully

This letter is in response to the request for our comments concerning the referenced project. We have reviewed this proposal only as it relates to maintenance eligibility of major drainage features, in this case:

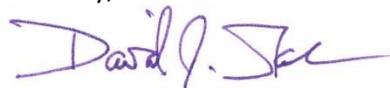
- Regional Detention Pond PGO
- Possum Gully

We have the following comments to offer:

1. We’ve provided more detailed comments on this site in a comment letter sent out earlier today. The one thing I noticed on this submittal that I would add as a comment is to make sure the maintenance access north of 66th Avenue has a turnaround area south of the DIA property boundary. Either that, or an eastbound access to get over to the 12-foot gravel access path that gets to the sanitary lift station would be helpful.

We appreciate the opportunity to review this proposal. Please feel free to contact me with any questions or concerns.

Sincerely,



David Skuodas, P.E., CFM, LEED AP
 Project Manager, Watershed Services
 Mile High Flood District



MAINTENANCE ELIGIBILITY PROGRAM (MEP)

MHFD Referral Review Comments

For Internal MHFD Use Only.	
MEP ID:	107883
Submittal ID:	10004613
MEP Phase:	Referral

Date: April 17, 2020
To: **Public Works**
Via email
RE: MHFD Referral Review Comments

Project Name:	High Point East – Possum Gully and Pond PG0
Location:	Aurora
Drainageway:	Possum Gully

This letter is in response to the request for our comments concerning the referenced project. We have reviewed this proposal only as it relates to maintenance eligibility of major drainage features, in this case:

- Regional Detention Pond PG0
- Possum Gully

We have the following comments to offer:

1. We’ve provided some redline comments on the construction plans, attached to this letter.
2. The discharges are listed lots of different places, and not always listed the same. For example, the 100-year discharge out of the 66th Avenue culvert (and Pond PG0) is listed as 949 cfs on page 15 of the Drainage Report, but then 912 cfs in the culvert hydraulic calculations and on the construction plans. Please clarify this discrepancy.
3. Please eliminate the outlet structure on Pond PG0. Size and configure the 66th Avenue culvert such that it can achieve the necessary peak shaving during the 100-year flood. Please also provide an offset section of the multi-cell box to convey as much of the bankfull discharge as possible before the other box culvert cells are engaged.
4. Although a geomorphic assessment has been provided, we’ll also need to see the hydraulic details for the design being implemented. In effect – what are the velocities, depths, shear stresses, etcetera the designed channel section is experiencing with this design.
5. Please see the plan redlines for other comments.

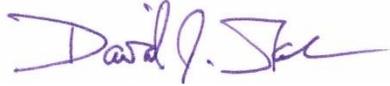


Project Name: High Point East – Possum Gully and Pond PGO
MEP ID: 107883/10004613
Date: 4/17/20

Mile High Flood Control District (MHFD)
MEP Referral Review Comments

We appreciate the opportunity to review this proposal. Please feel free to contact me with any questions or concerns.

Sincerely,

A handwritten signature in purple ink that reads "David J. Skuodas". The signature is fluid and cursive, with the first name "David" being the most prominent.

David Skuodas, P.E., CFM, LEED AP
Project Manager, Watershed Services
Mile High Flood District

Attachment: Plan Redlines
CC: Drew Roberts

GENERAL NOTES:

- CITY OF AURORA PLAN REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH CITY OF AURORA DESIGN 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.
- PROPOSED STORM SEWER INFRASTRUCTURE LOCATED WITHIN EAST 66TH AVENUE RIGHT-OF-WAY OR PROPOSED DRAINAGE EASEMENT WILL BE PUBLICLY MAINTAINED BY THE CITY OF AURORA. PRIVATE DETENTION POND TO BE OWNED AND MAINTAINED BY THE RESPECTIVE BY THE RESPECTIVE METROPOLITAN DISTRICT.
- DESIGN RECURRENCE INTERVAL FOR STORM SEWER INFRASTRUCTURE INCLUDED IN THESE PLANS IS FOR A 100-YEAR STORM EVENT.

NOTES:

- FLOODPLAIN DEVELOPMENT PERMITS FOR POSSUM GULLY SHALL DOCUMENT NO ADVERSE IMPACTS TO INSURABLE STRUCTURES OR PRIVATE PROPERTY.
- THE FEMA FLOOD INSURANCE MAP THAT COVERS THE AREA IS FOR ARAPAHOE/ADAMS COUNTY, COLORADO MAP NUMBER 08001C0655J, EFFECTIVE DATE 02/17/2017.
- FUTURE DEVELOPMENTS WILL BE REQUIRED TO PROVIDE A PATH AND DRAINAGE EASEMENT FOR EMERGENCY FLOWS CONVEYED FROM PROPOSED SUMP INLETS AND PROPOSED WATER QUALITY DETENTION PONDS.
- THE PROPOSED CULVERT CROSSING AT POSSUM GULLY AND E. 66TH AVENUE HAS BEEN SIZED WITH ADDITIONAL CAPACITY FOR EMERGENCY OVERFLOW IN ACCORDANCE WITH COA SDDTC SECTION 6.61. A FORMAL VARIANCE IS HEREBY REQUESTED TO PROVIDE EMERGENCY OVERFLOW THROUGH THE CULVERT RATHER THAN OVER THE ROADWAY EMBANKMENT TO LIMIT IMPACTS ON THE ADJACENT DEVELOPMENT.

BENCHMARK

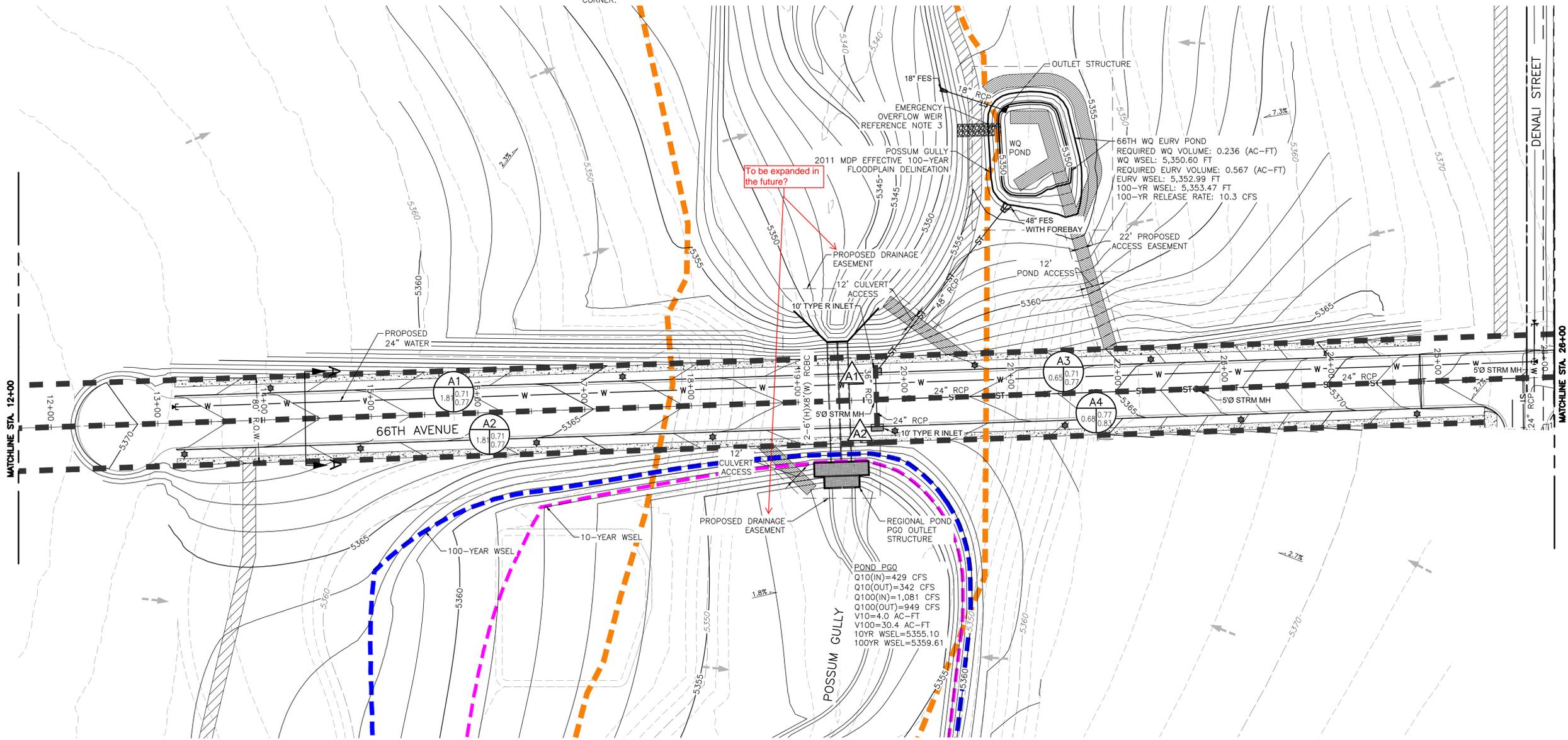
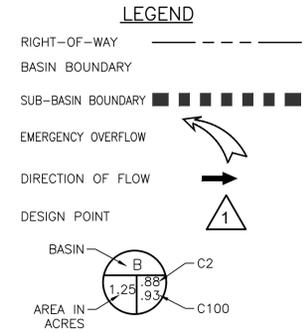
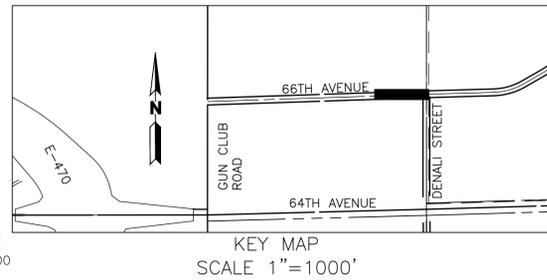
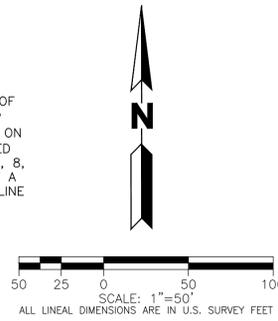
COA ID: 3S6508NW001

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ELEVATION = 5394.58' (NAVD1988) DATUM.

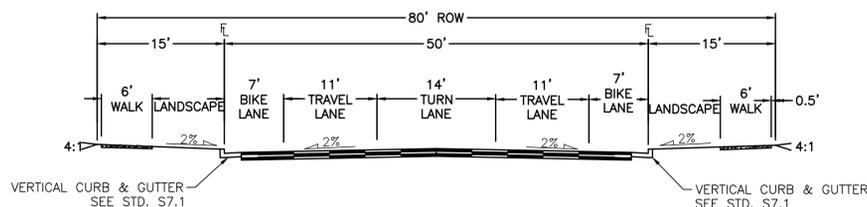
BASIS OF BEARING

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BASIN	DESIGN POINT	AREA (ACRES)	% IMP.	C2	C100	Q2 (CFS)	Q100 (CFS)
A1		1.81	78.5%	0.71	0.77	3.16	9.46
A2		1.81	78.5%	0.71	0.77	3.16	9.46
A3		0.65	78.1%	0.71	0.77	1.40	4.19
A4		0.68	86.0%	0.77	0.83	1.62	4.83
D1		1.18	78.3%	0.71	0.77	2.26	6.76
D2		1.18	78.3%	0.71	0.77	2.26	6.76

DESIGN POINT	AREA (ACRES)	Q2 (CFS)	Q100 (CFS)
A1	2.46	4.56	13.65
A2	2.49	4.78	14.29
D1	1.18	2.26	6.76
D2	1.18	2.26	6.76



APPROVED ONE YEAR FROM THIS DATE

City Engineer _____ Date _____

Water Department _____ Date _____

HIGH POINT EAST
EAST 66TH AVENUE
DRAINAGE MAP

No.	Description of Revisions	Date	Name
1	1ST SUBMITTAL TO COA	03/26/20	M/M

Job Number 19-1043
Project Manager R. BYRNE
Design By RDB/BAM
Drawn By BAM
Principal in Charge P. HORN

Sheet Number:

D1

MARTIN/MARTIN
CONSULTING ENGINEERS
12485 WEST COLEMAN AVENUE, LAKEWOOD, COLORADO 80215
303.431.6100
MARTINMARTIN.COM

NOT FOR CONSTRUCTION

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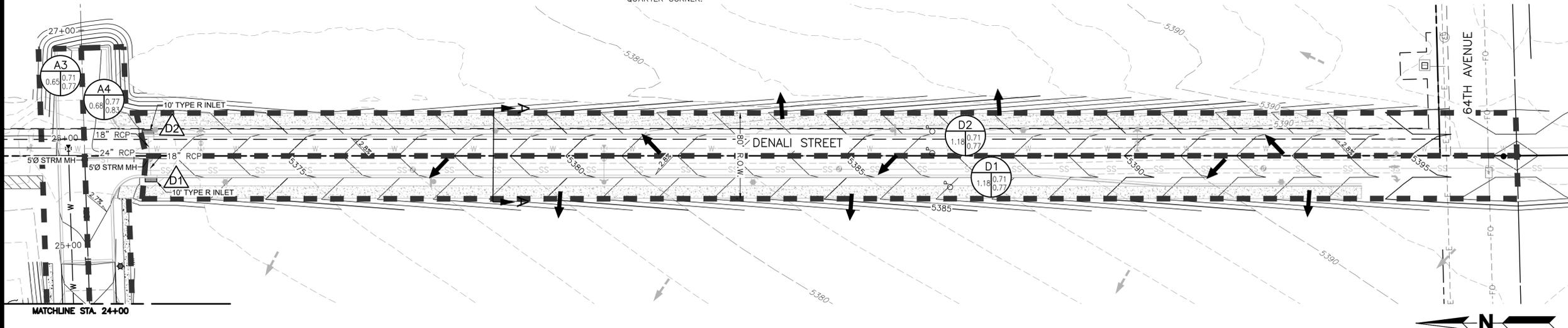
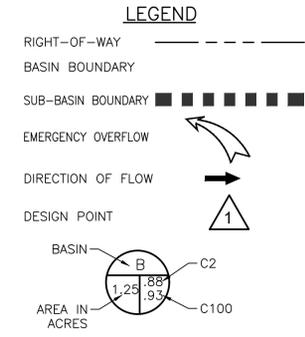
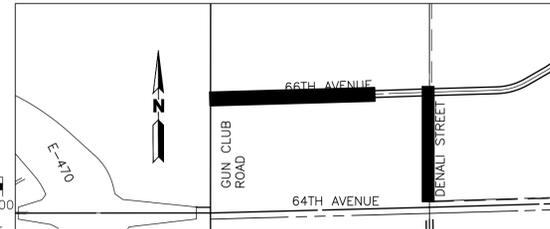
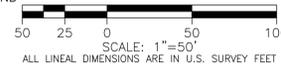
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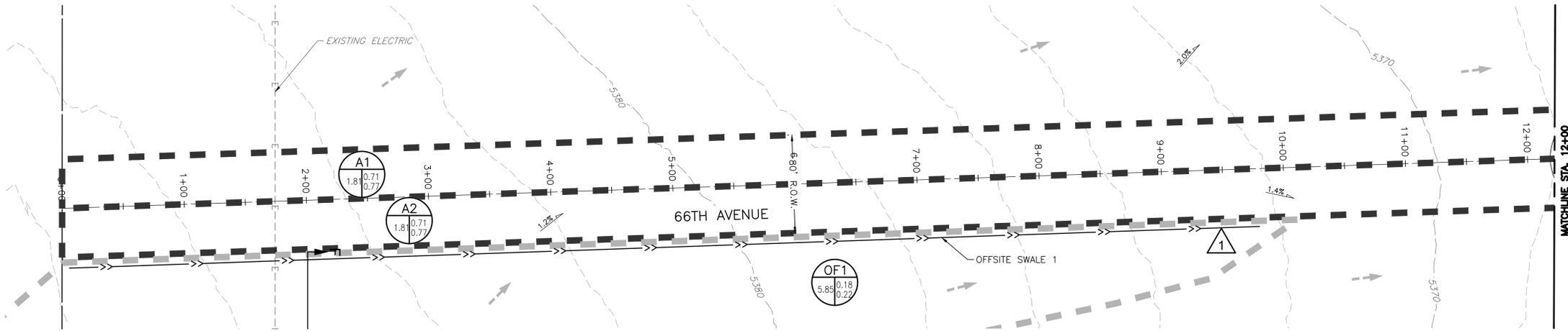
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A3		0.65	78.1%	0.71	0.77	1.40	4.19	D1	1.18	2.26	6.76
A4		0.68	86.0%	0.77	0.83	1.62	4.83	D2	1.18	2.26	6.76
D1		1.18	78.3%	0.71	0.77	2.26	6.76				
D2		1.18	78.3%	0.71	0.77	2.26	6.76				



APPROVED ONE YEAR FROM THIS DATE

City Engineer _____ Date _____

Water Department _____ Date _____

PLOT DATE: Friday, March 27, 2020 6:27 PM LAST SAVED BY: BMEIS DRAWING LOCATION: G:\HORN\19.1043-High Point - EAST\C05 Det Pond PCD\PLANS\DRAINAGE\D1.dwg

MARTIN/MARTIN
 CONSULTING ENGINEERS
 12495 WEST COLEFAK AVENUE, LAKEWOOD, COLORADO 80215
 303.431.6100
 MARTINMARTIN.COM

NOT FOR CONSTRUCTION

HIGH POINT EAST
 EAST 66TH AVENUE
 DRAINAGE MAP

No.	Description of Revisions	Date	Name
1	1ST SUBMITTAL TO COA	03/26/20	M/M

Job Number 19.1043
 Project Manager R. BYRNE
 Design By RDB/BAM
 Drawn By BAM
 Principal in Charge P. HORN

THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES.

Sheet Number:
D2

GENERAL NOTES:

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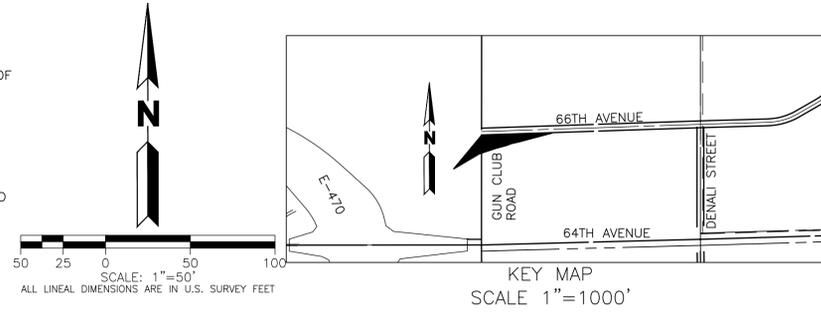
BENCHMARK

COA ID: 356508NW001
 ELEVATIONS ARE BASED ON THE CITY OF AURORA AND COUNTY OF ADAMS BENCHMARK #356508NW001 A CITY OF AURORA AND COUNTY OF ADAMS 3-1/4" ALUMINUM CAP STAMPED (CITY OF AURORA B.M., 356508NW001, 2007). ON A 5" #6 REBAR, IN A 8" PVC PIPE WITH A CAP, LOCATED SOUTHEAST OF THE SECTION CORNER TO SECTIONS 6, 5, 8, 7, TOWNSHIP 3 SOUTH, RANGE 65 WEST, SOUTHEAST OF A YELLOW STEEL CONCRETE POST, SOUTH OF THE CENTERLINE OF A DIRT ROAD (64TH AVENUE) AND EAST OF THE INTERSECTION OF E-470 AND 64TH AVENUE.

ELEVATION = 5394.58' (NAVD1988) DATUM.

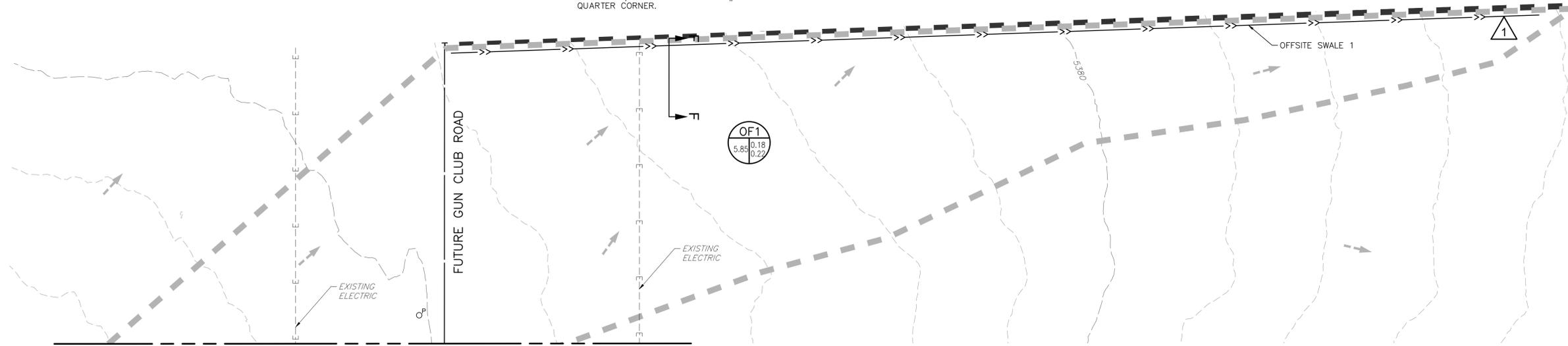
BASIS OF BEARING

BEARINGS ARE BASED ON AN ASSUMED BEARING OF S00°33'21"E ALONG THE EASTERLY LINE OF THE SOUTHWEST QUARTER OF SECTION 7, TOWNSHIP 3 SOUTH, RANGE 65 WEST OF THE 6TH P.M. BEING MONUMENTED AS A FOUND 3 1/4" ALUMINUM CAP PLS # 25379 IN RANGEBOX AT THE CENTER QUARTER CORNER AND A FOUND 2 1/2" ALUMINUM CAP PLS #28285 AT THE SOUTH QUARTER CORNER.

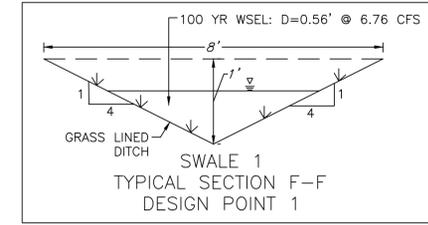
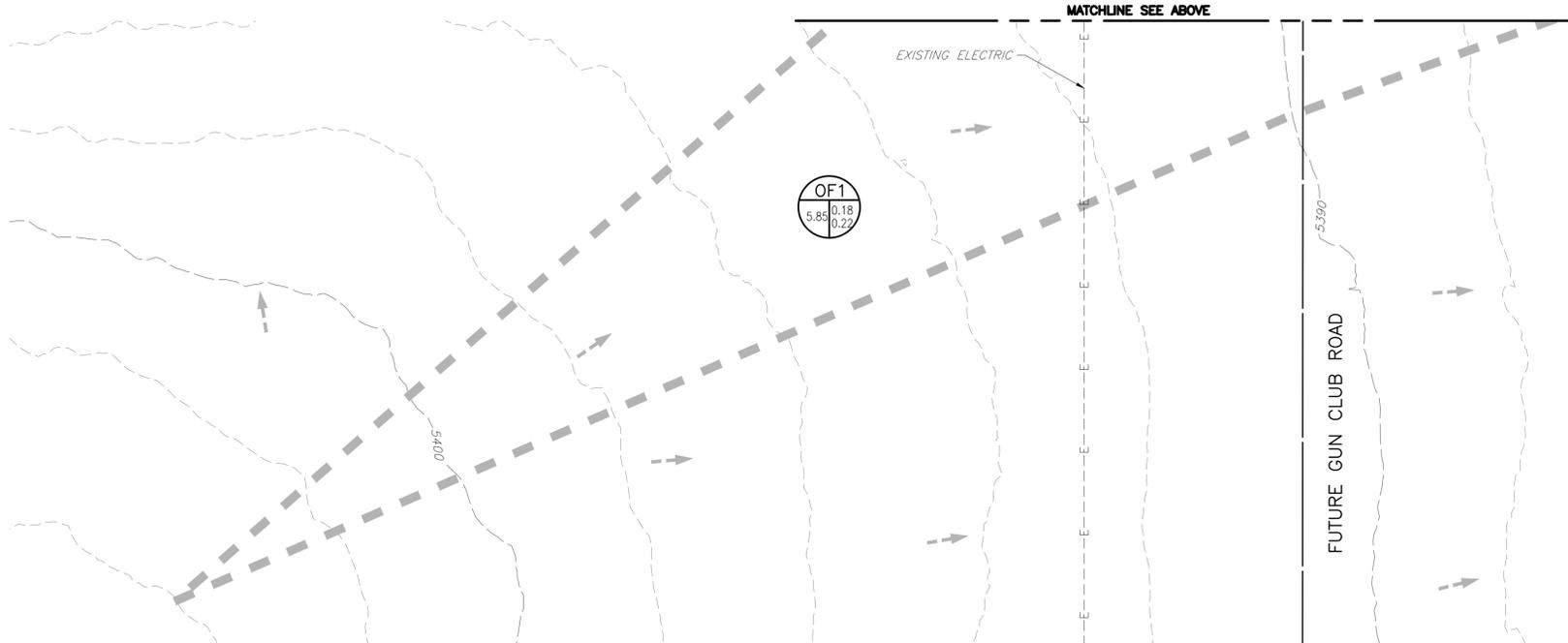


LEGEND

- RIGHT-OF-WAY (dashed line)
- BASIN BOUNDARY (thick dashed line)
- SUB-BASIN BOUNDARY (dotted line)
- EMERGENCY OVERFLOW (arrow pointing to OF1)
- DIRECTION OF FLOW (arrow)
- DESIGN POINT (triangle with '1')
- BASIN (circle with 'B', 'C2', 'C100')
- AREA IN ACRES (circle with '1.25', '0.88', '0.93')



BASIN	DESIGN POINT	AREA (ACRES)	% IMP.	C2	C100	Q2 (CFS)	Q100 (CFS)
OF 1	1	5.85	0.05	0.18	0.22	2.00	6.76



APPROVED ONE YEAR FROM THIS DATE

City Engineer _____ Date _____
 Water Department _____ Date _____

PLOT DATE: Friday, March 27, 2020 6:28 PM LAST SAVED BY: BMEIS
 DRAWING LOCATION: G:\HORN\19.1043-High Point - EAST\C05 Det Pond PGO\PLANS\DRAINAGE\01.dwg



NOT FOR CONSTRUCTION

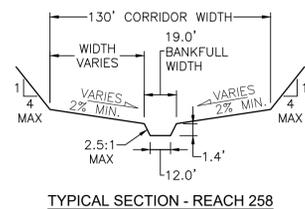
HIGH POINT EAST
 EAST 66TH AVENUE
 DRAINAGE MAP

No.	Description of Revisions	Date	Name
1	1ST SUBMITTAL TO COA	03/26/20	M/M

Job Number 19.1043
 Project Manager R. BYRNE
 Design By RDB/BAM
 Drawn By BAM
 Principal in Charge P. HORN

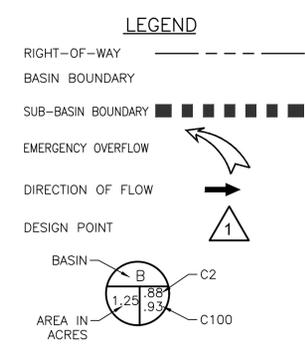
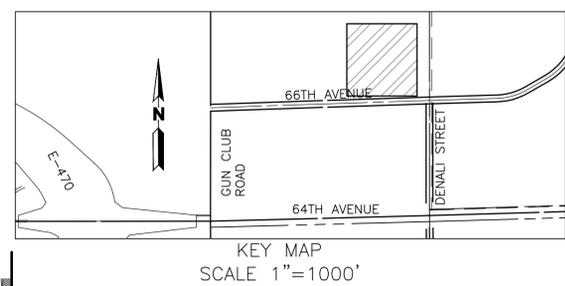
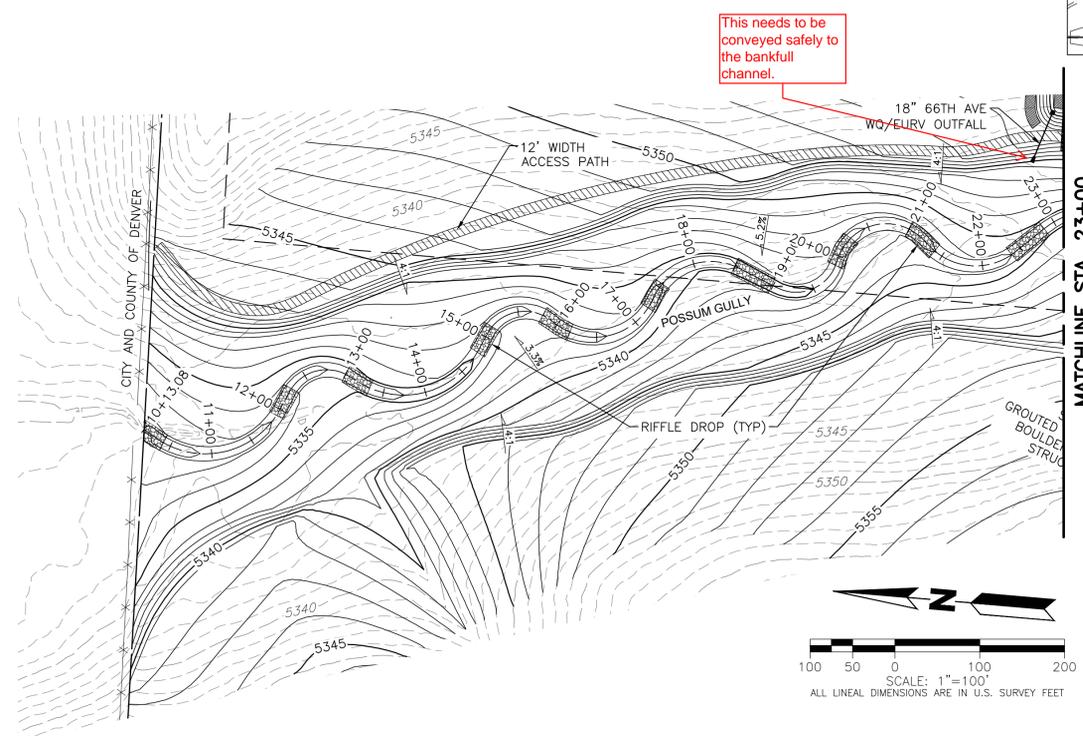
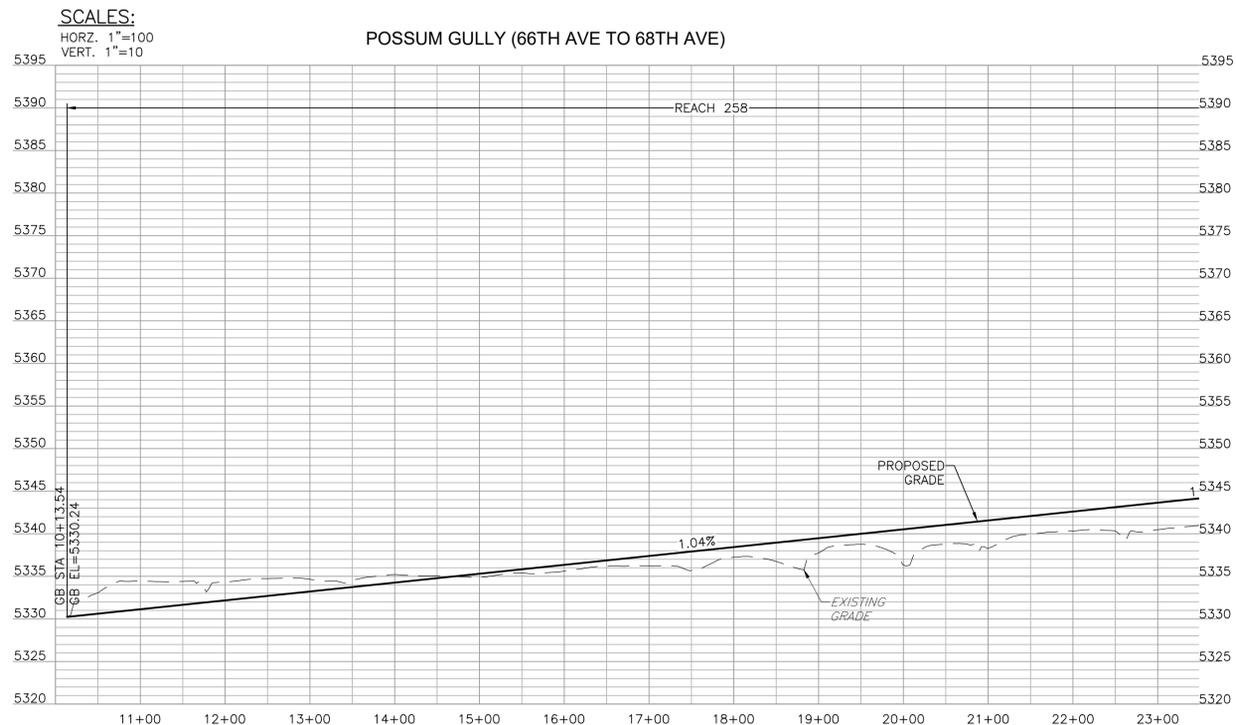
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Sheet Number:
D3



TYPICAL SECTION - REACH 258

NATURAL CHANNEL DESIGN PARAMETERS				
REACH	253T	254	257T	258
FUTURE FLOW CONDITION	DETAINED	DETAINED	DETAINED	DETAINED
FUTURE Q2 (CFS)	133	208	226	79
FUTURE Q100 (CFS)	912	996	932	923
ERC SLOPE (%)	1.2%	0.8%	0.8%	0.8%
DESIGN SLOPE (%)	0.8%	0.8%	0.5%	1.0%
BOTTOM WIDTH (FT)	15	16	16	12
BANKFULL DEPTH (FT)	1.5	2.1	2.1	1.4
BANKFULL WIDTH (FT)	22.5	26.5	26.5	19
CORRIDOR WIDTH (FT)	150	190	190	130
2 YR DEPTH (FT)	1.9	2.0	2.6	1.6
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No.	Description of Revisions	Date	Name
1	1ST PDR TO COA	03/27/20	M/M

Job Number	19-1043
Project Manager	R. BYRNE
Design By	RDB/BAM
Drawn By	BAM
Principal in Charge	P. HORN

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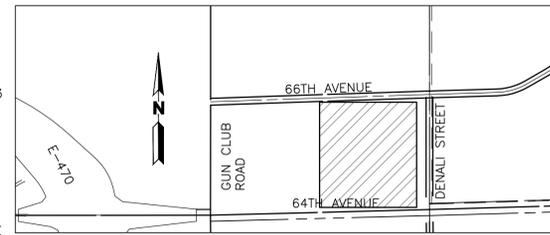
COA ID: 3S6508NW01

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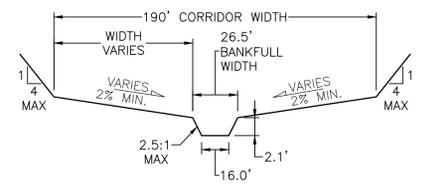
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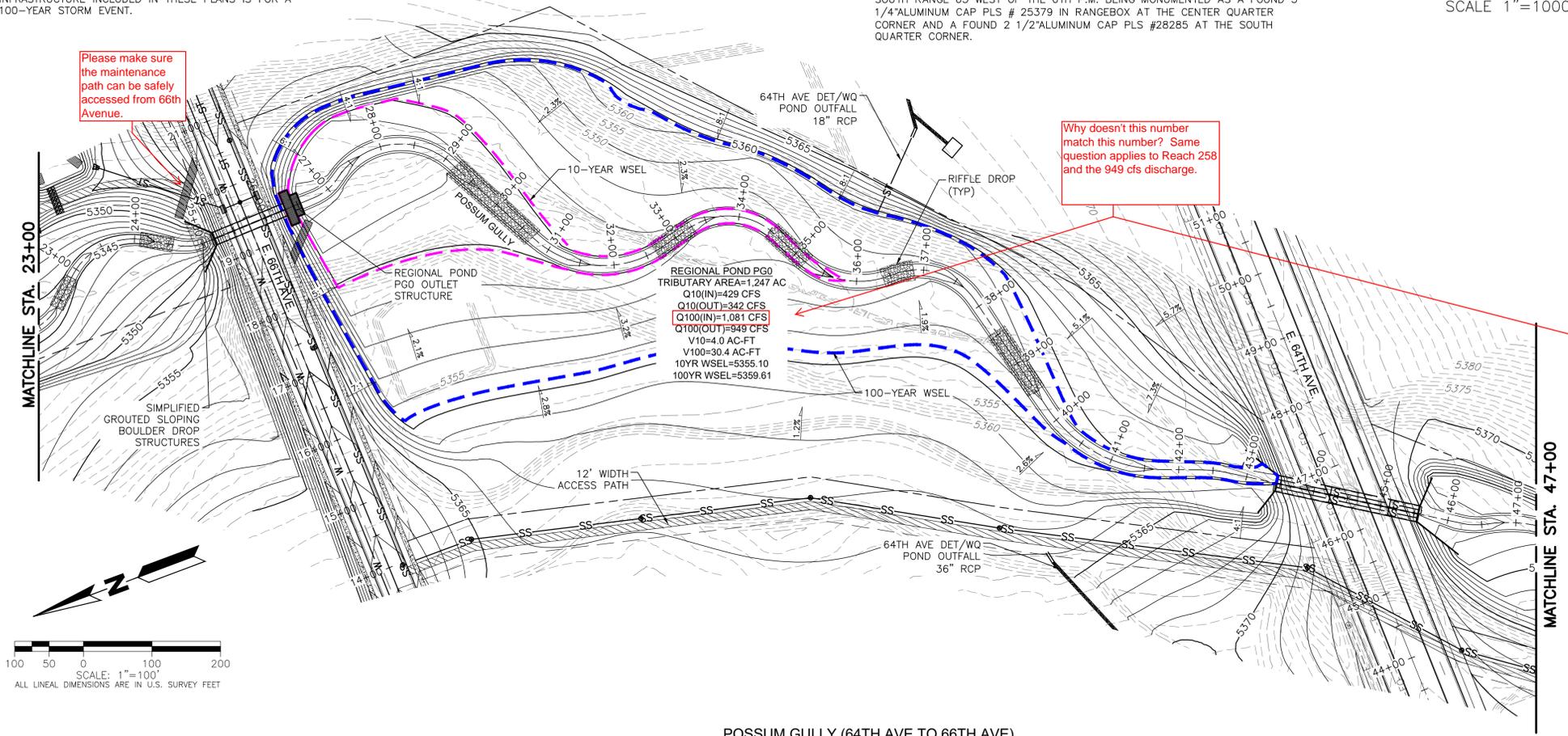


LEGEND

- RIGHT-OF-WAY
- BASIN BOUNDARY
- SUB-BASIN BOUNDARY
- EMERGENCY OVERTFLOW
- DIRECTION OF FLOW
- DESIGN POINT
- BASIN
- AREA IN ACRES



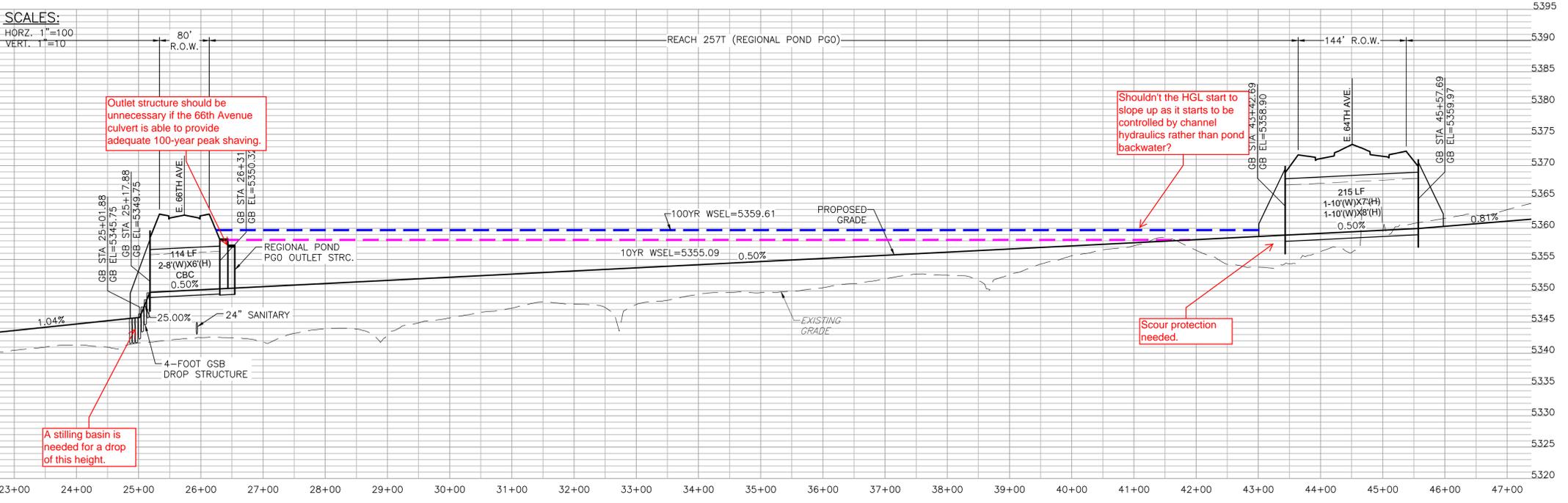
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Please make sure the maintenance path can be safely accessed from 66th Avenue.

Why doesn't this number match this number? Same question applies to Reach 258 and the 949 cfs discharge.

REGIONAL POND PGO TRIBUTARY AREA=1.247 AC
 Q10(IN)=429 CFS
 Q10(OUT)=342 CFS
 Q100(IN)=1,081 CFS
 Q100(OUT)=949 CFS
 V10=4.0 AC-FT
 V100=30.4 AC-FT
 10YR WSEL=5355.10
 100YR WSEL=5359.61



Outlet structure should be unnecessary if the 66th Avenue culvert is able to provide adequate 100-year peak shaving.

Shouldn't the HGL start to slope up as it starts to be controlled by channel hydraulics rather than pond backwater?

Scour protection needed.

A stilling basin is needed for a drop of this height.

PLOT DATE: Wednesday, April 1, 2020 10:30 AM LAST SAVED BY: RBYRNE
 DRAWING LOCATION: G:\HORN\19.1043-High Point - EAST\CO5 Possum Gully\PLANS\EXHIBITS\Channel Concept\Possum Gully P&P.dwg

No.	Description of Revisions	Date	Name
1	1ST PDR TO COA	03/27/20	M/M

Job Number 19.1043
 Project Manager R. BYRNE
 Design By RDB/BAM
 Drawn By BAM
 Principal in Charge P. HORN
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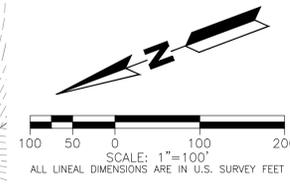
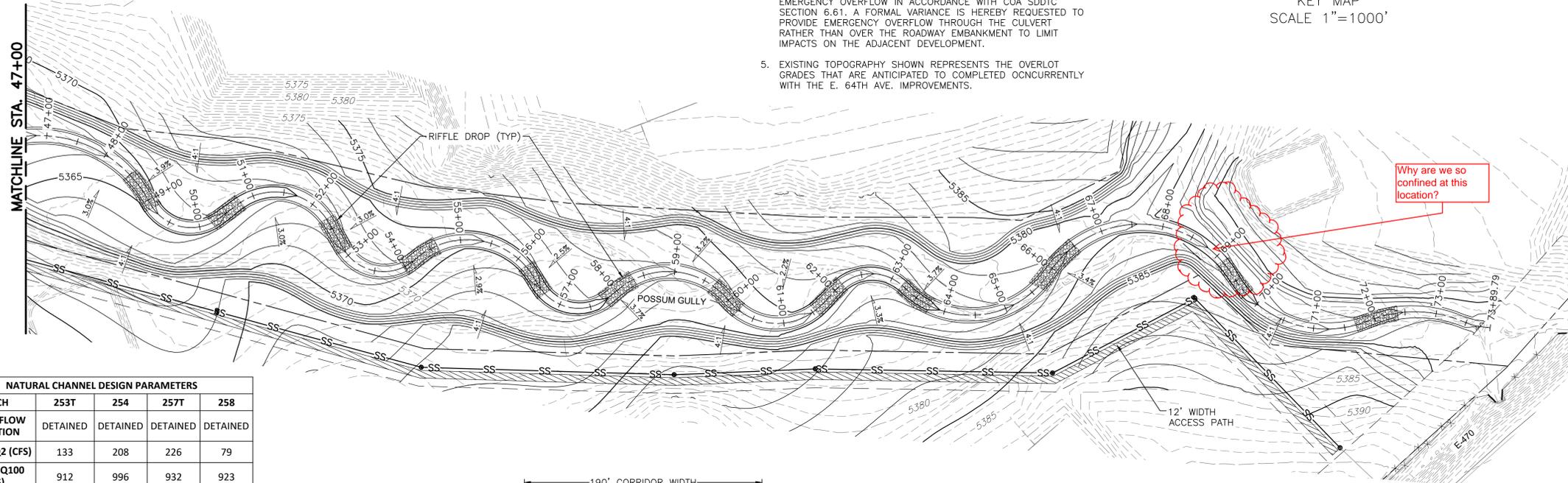
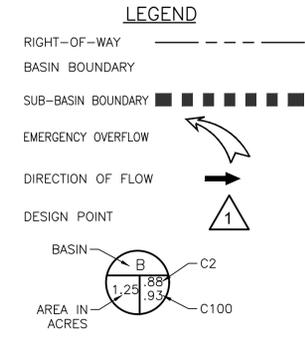
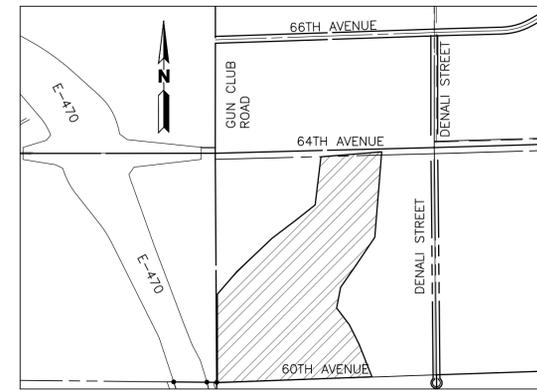
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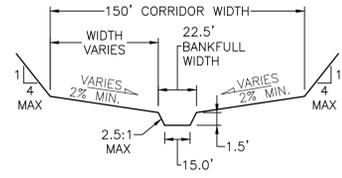
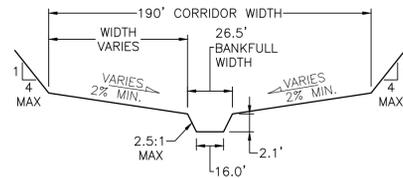
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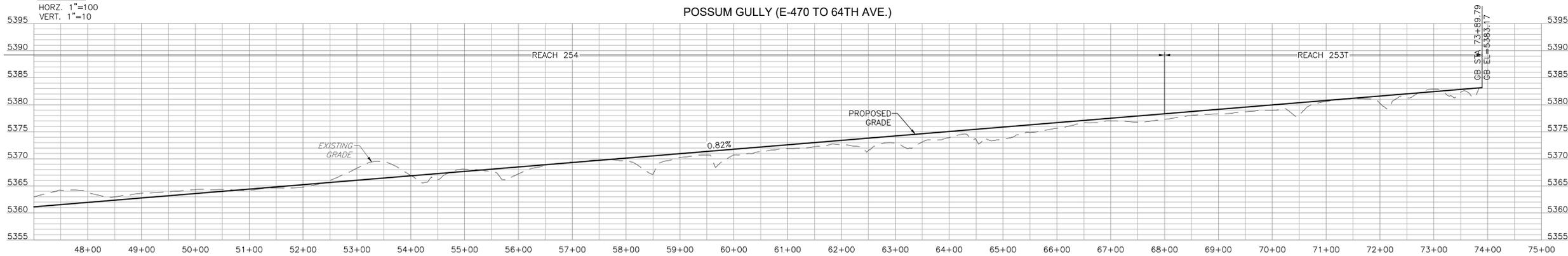
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SCALES:
 HORZ. 1"=100
 VERT. 1"=10



PLOT DATE: Wednesday, April 1, 2020 10:33 AM LAST SAVED BY: RBYRNE
 DRAWING LOCATION: G:\HORN\19.1043-High Point - EAST\COE Possum Gully Channel Concept\Possum Gully P&P.dwg

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NOT FOR CONSTRUCTION

HIGH POINT EAST
 POSSUM GULLY
 PLAN AND PROFILE
 (STA. 47+00 - 73+89.79)

No.	Description of Revisions	Date	Name
1	1ST PDR TO COA	03/27/20	M/M

Job Number 19.1043
 Project Manager R. BYRNE
 Design By RDB/BAM
 Drawn By BAM
 Principal in Charge P. HORN
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