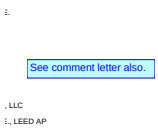
ENG-CDR23021-R1-FDR-S1.pdf Markup Summary

1 (1)



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Page Index: 1
Date: 2/21/2024 5:04:08 PM
Author: Jeff Rice - EPC Engineering Review
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See comment letter also.

4 (8)

Subject: Callout
Page Index: 4
Date: 2/20/2024 4:21:19 PM
Author: Jeff Rice - EPC Engineering Review
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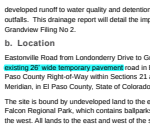
Page Label: 4

assumed to be (based on Grandview Reserve Filing No. 1 proposal?)



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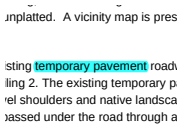
existing 26’ wide temporary pavement



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Author: Jeff Rice - EPC Engineering Review
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temporary pavement

Subject:
Page Index: 4
Date: 2/20/2024 4:47:16 PM
Author: Jeff Rice - EPC Engineering Review
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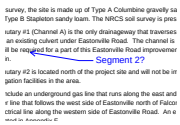
Gieck Ranch Tributary #1 (Channel A) is the only drainageway that traverses the site in the west to east
direction through an existing culvert under Eastonville Road. The channel is a mapped wetland and a
wetland permit will be required for a part of this Eastonville Road improvement project. Channel A is not within
a FEMA floodplain.



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Segment 2?

Subject:
Page Index: 4
Date: 2/20/2024 4:48:20 PM
Author: Jeff Rice - EPC Engineering Review
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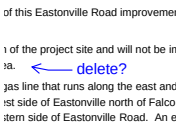
Gieck Ranch Tributary #2 is located north of the project site and will not be impacted by this project. There
are no known irrigation facilities in the area.



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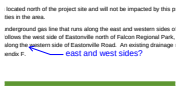
delete?



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east and west sides?

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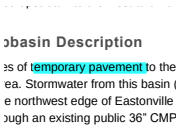
6 (9)



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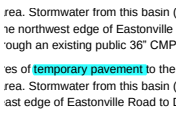
emporary pavement



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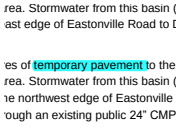
temporary pavement



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temporary pavement

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temporary pavement

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temporary pavement

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temporary pavement

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emporary pavement t

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temporary pavement

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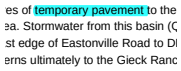
temporary pavement

7 (1)



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temporary pavement

8 (3)

Subject:
Page Index: 8
Date: 2/20/2024 9:16:23 PM
Author: Jeff Rice - EPC Engineering Review
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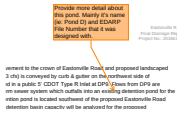
outfalls into an existing detention pond for the Meridian Ranch Development. This detention pond is located southwest of the proposed Eastonville Road
Segment 1 Improvements. The existing detention basin capacity will be analyzed for the proposed improvements.



Subject: SW - Textbox with Arrow
Page Index: 8
Date: 2/21/2024 10:04:51 AM
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Provide more detail about this pond. Mainly it's name (ie: Pond D) and EDARP File Number that it was designed with.

Subject:
Page Index: 8
Date: 2/21/2024 10:46:56 AM
Author: Jeff Rice - EPC Engineering Review
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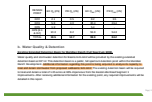
outfalls into an existing detention pond for the Meridian Ranch Development. This detention pond is located southwest of the proposed Eastonville Road
Segment 1 Improvements. The

9 (6)



Subject: SW - Highlight
Page Index: 9
Date: 2/20/2024 1:58:34 PM
Author: Glenn Reese - EPC Stormwater
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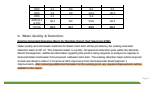
Additional information regarding this pond is being acquired to analyze its capacity to
treat and detain stormwater from proposed subbasins EA1-EA2.



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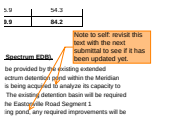
After receiving additional information for the existing pond, any required improvements will be detailed in this report.



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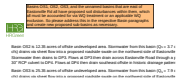
Note to self: revisit this text with the next submittal to see if it has been updated yet.



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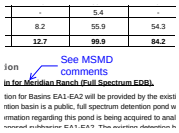
Basins OS1, OS2, OS3, and the unnamed basins that are east of Eastonville Rd all have proposed soil disturbances within them, which all must be accounted for via WQ treatment or an applicable WQ exclusion. So please address this in the respective Basin paragraphs and create new proposed sub-basins as necessary.



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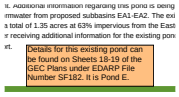
See MSMD comments



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Details for this existing pond can be found on Sheets 18-19 of the GEC Plans under EDARP File Number SF182. It is Pond E.

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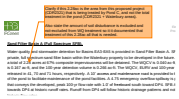
10 (6)



Subject: SW - Textbox with Arrow
Page Index: 10
Date: 2/20/2024 2:17:13 PM
Author: Glenn Reese - EPC Stormwater
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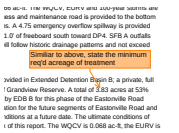
Clarify if this 2.28ac is the area from this proposed project (CDR2321) that is being treated by Pond C, and not the total treatment in the pond (CDR2321 + Waterbury areas).

Also state the amount of soil disturbance is excluded and not-excluded from WQ treatment so it it documented that treatment of this 2.28ac all that is needed.



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Page Index: 10
Date: 2/20/2024 2:18:17 PM
Author: Glenn Reese - EPC Stormwater
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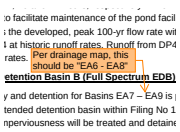
Similiar to above, state the minimum req'd acreage of treatment



Subject: SW - Textbox with Arrow
Page Index: 10
Date: 2/20/2024 2:35:59 PM
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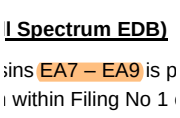
Per drainage map, this should be "EA6 - EA8"



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EA7 – EA9

Subject: SW - Textbox with Arrow
Page Index: 10
Date: 2/21/2024 7:54:59 AM
Author: Glenn Reese - EPC Stormwater
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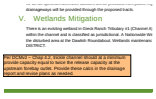
Clarify that pond sizing calcs for the Interim Condition have also been provided. And then define the difference between the Interim & Ultimate conditions, including when (ie: with what future project) it is anticipated that the Ultimate Conditions will be built out. And state that details in the CDs are only being provided for the Interim Condition for this CDR.



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Per DCMv2 – Chap 4.2, trickle channel should at a minimum provide capacity equal to twice the release capacity at the upstream forebay outlet. Provide these calcs in the drainage report and revise plans as needed.

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12 (2)

Subject: SW - Textbox with Arrow
Page Index: 12
Date: 2/20/2024 3:24:20 PM
Author: Glenn Reese - EPC Stormwater
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These cost estimate sshould include the full cost to install the ponds (ie: labor), not just the cost of materials, which is what they currently appear to be.

Subject: SW - Textbox with Arrow
Page Index: 12
Date: 2/20/2024 4:52:43 PM
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Page Label: 12

Per DCMv2 Section 4.3, outlet pipe should be 18” minimum

13 (2)

Subject:
Page Index: 13
Date: 2/22/2024 8:35:21 AM
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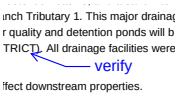
The water quality and detention ponds will be maintained by the
Grandview Reserve Metropolitan District No. 2 (DISTRICT).



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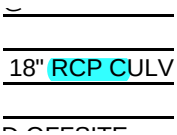
verify

30 (6)



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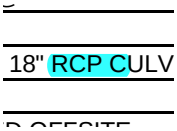
RCP C



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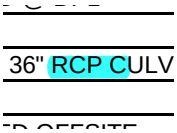
RCP C



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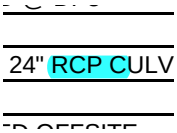

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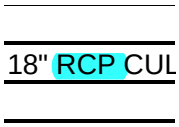

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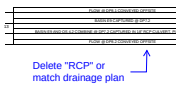
RCP



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Date: 2/22/2024 9:24:02 AM
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Delete "RCP" or match drainage plan

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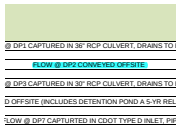
35 (6)



Subject:
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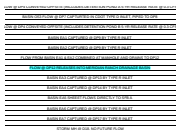
FLOW @ DP2 CONVEYED OFFSITE



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Page Index: 35
Date: 2/22/2024 1:35:51 PM
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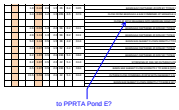
Page Label: 25

FLOW @ DP12 RELEASES INTO MERIDIAN RANCH DRAINAGE BASIN



Subject: Callout
Page Index: 35
Date: 2/22/2024 1:36:09 PM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
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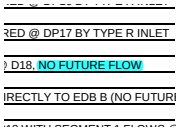
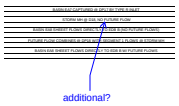
Page Label: 25

to PPRTA Pond E?



Subject:
Page Index: 35
Date: 2/22/2024 1:38:59 PM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: 25

NO FUTURE FLOW



Subject: Callout
Page Index: 35
Date: 2/22/2024 1:39:29 PM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: 25

additional?

Subject: Callout
Page Index: 35
Date: 2/22/2024 1:42:51 PM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: 25

are these future flows from Eastonville?

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38 (1)

Subject: Text Box
Page Index: 38
Date: 2/22/2024 2:04:47 PM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: 28

(not verified with this review)

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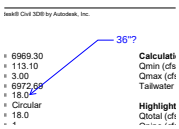
51 (1)



Subject: Callout
Page Index: 51
Date: 2/22/2024 2:05:49 PM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: 41

36"?

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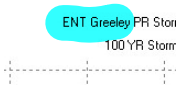
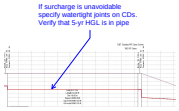
55 (2)



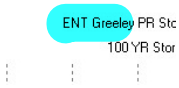
Subject:
Page Index: 55
Date: 2/22/2024 2:07:37 PM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: 45



Subject: Callout
Page Index: 55
Date: 2/22/2024 2:11:13 PM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: 45

If surcharge is unavoidable specify watertight joints on CDs. Verify that 5-yr HGL is in pipe

56 (2)

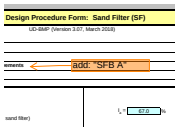


Subject:
Page Index: 56
Date: 2/22/2024 2:09:39 PM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: 46

Subject: Callout
Page Index: 56
Date: 2/22/2024 2:10:54 PM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: 46

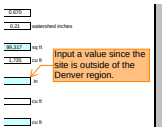
verify that 5-yr HGL is in pipe

59 (3)



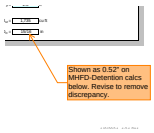
Subject: SW - Textbox with Arrow
Page Index: 59
Date: 2/20/2024 3:39:55 PM
Author: Glenn Reese - EPC Stormwater
Color:
Layer:
Space:
Page Label: 49

add: "SFB A"



Subject: SW - Textbox with Arrow
Page Index: 59
Date: 2/20/2024 5:21:15 PM
Author: Glenn Reese - EPC Stormwater
Color:
Layer:
Space:
Page Label: 49

Input a value since the site is outside of the Denver region.



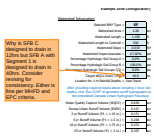
Subject: SW - Textbox with Arrow
Page Index: 59
Date: 2/20/2024 5:21:58 PM
Author: Glenn Reese - EPC Stormwater
Color:
Layer:
Space:
Page Label: 49

Shown as 0.52" on MHFD-Detention calcs below. Revise to remove discrepancy.

61 (2)

Subject: SW - Textbox with Arrow
Page Index: 61
Date: 2/20/2024 5:18:17 PM
Author: Glenn Reese - EPC Stormwater
Color:
Layer:
Space:
Page Label: 51

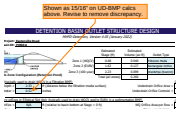
Revise to "SFB A" to be consistent with the rest of this report.



Subject: SW - Textbox with Arrow
Page Index: 61
Date: 2/20/2024 5:19:53 PM
Author: Glenn Reese - EPC Stormwater
Color:
Layer:
Space:
Page Label: 51

Why is SFB C designed to drain in 12hrs but SFB A with Segment 1 is designed to drain in 40hrs. Consider revising for consistency. Either is fine per MHFD and EPC criteria.

63 (2)



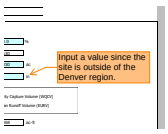
Subject: SW - Textbox with Arrow
Page Index: 63
Date: 2/20/2024 5:22:43 PM
Author: Glenn Reese - EPC Stormwater
Color:
Layer:
Space:
Page Label: 53

Shown as 15/16" on UD-BMP calcs above. Revise to remove discrepancy.

Subject: Callout
Page Index: 63
Date: 2/22/2024 2:18:43 PM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: 53

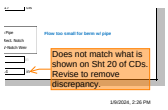
this is significantly lower than 8.4 cfs calculated -- verify input data

67 (2)



Subject: SW - Textbox with Arrow
Page Index: 67
Date: 2/20/2024 5:23:49 PM
Author: Glenn Reese - EPC Stormwater
Color:
Layer:
Space:
Page Label: 57

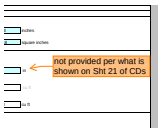
Input a value since the site is outside of the Denver region.



Subject: SW - Textbox with Arrow
Page Index: 67
Date: 2/20/2024 5:25:41 PM
Author: Glenn Reese - EPC Stormwater
Color:
Layer:
Space:
Page Label: 57

Does not match what is shown on Sht 20 of CDs. Revise to remove discrepancy.

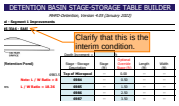
68 (1)



Subject: SW - Textbox with Arrow
Page Index: 68
Date: 2/20/2024 5:30:00 PM
Author: Glenn Reese - EPC Stormwater
Color:
Layer:
Space:
Page Label: 58

not provided per what is shown on Sht 21 of CDs

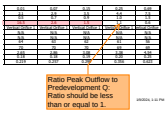
70 (1)



Subject: SW - Textbox with Arrow
Page Index: 70
Date: 2/21/2024 7:48:41 AM
Author: Glenn Reese - EPC Stormwater
Color:
Layer:
Space:
Page Label: 60

Clarify that this is the interim condition.

72 (2)



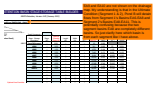
Subject: SW - Textbox with Arrow
Page Index: 72
Date: 2/21/2024 7:39:24 AM
Author: Glenn Reese - EPC Stormwater
Color:
Layer:
Space:
Page Label: 62

Ratio Peak Outflow to Predevelopment Q: Ratio should be less than or equal to 1.

Subject: Callout
Page Index: 72
Date: 2/22/2024 2:29:33 PM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: 62

this is significantly lower than 10.9 cfs calculated -- verify input data

76 (1)



Subject: SW - Textbox with Arrow
Page Index: 76
Date: 2/21/2024 7:47:17 AM
Author: Glenn Reese - EPC Stormwater
Color:
Layer:
Space:
Page Label: 66

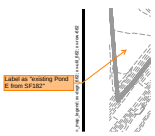
EA9 and EA10 are not shown on the drainage map. My understanding is that in the Ultimate Condition (Segment 1 & 2), Pond B will detain flows from Segment 1's Basins EA6-EA8 and Segment 2's Basins EA8-EA11. This is potentially confusing because the two segment basins EA8 are completely different basins. So just clarify here which basin is from each segment like I have above.

203 (1)

Subject: Text Box
Page Index: 203
Date: 2/20/2024 10:31:35 AM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: 193

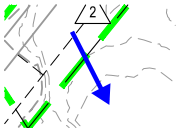
Provide existing drainage plans

204 (6)



Subject: SW - Textbox with Arrow
Page Index: 204
Date: 2/21/2024 2:34:17 PM
Author: Glenn Reese - EPC Stormwater
Color:
Layer:
Space:
Page Label: [1] 201662.08_FDR_map_ex_Seg1-Existing drainage map

Label as "existing Pond E from SF182"



Subject: Arrow
Page Index: 204
Date: 2/22/2024 9:21:42 AM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: [1] 201662.08_FDR_map_ex_Seg1-Existing drainage map

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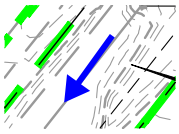

Subject: Arrow
Page Index: 204
Date: 2/22/2024 9:22:02 AM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: [1] 201662.08_FDR_map_ex_Seg1-Existing drainage map

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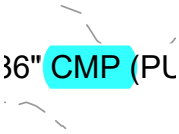
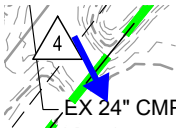


Subject:
Page Index: 204
Date: 2/22/2024 9:23:02 AM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: [1] 201662.08_FDR_map_ex_Seg1-Existing drainage map

CMP



Subject: Arrow
Page Index: 204
Date: 2/22/2024 9:29:44 AM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: [1] 201662.08_FDR_map_ex_Seg1-Existing drainage map

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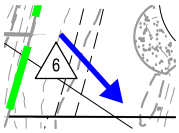
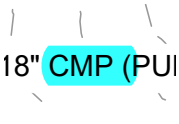


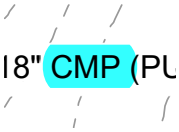
Subject: Arrow
Page Index: 204
Date: 2/22/2024 9:30:23 AM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: [1] 201662.08_FDR_map_ex_Seg1-Existing drainage map

205 (4)



Subject:
Page Index: 205
Date: 2/22/2024 9:19:43 AM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: [2] 201662.08_FDR_map_ex_Seg1-Existing drainage map (2)

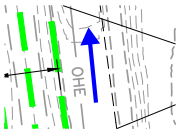
CMP (



Subject:
Page Index: 205
Date: 2/22/2024 9:20:11 AM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: [2] 201662.08_FDR_map_ex_Seg1-Existing drainage map (2)

CMP

Subject: Arrow
Page Index: 205
Date: 2/22/2024 9:31:16 AM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: [2] 201662.08_FDR_map_ex_Seg1-Existing drainage map (2)



Subject: Arrow
Page Index: 205
Date: 2/22/2024 9:31:40 AM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: [2] 201662.08_FDR_map_ex_Seg1-Existing drainage map (2)

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206 (22)

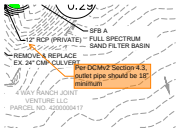
Subject: SW - Textbox with Arrow
Page Index: 206
Date: 2/20/2024 2:42:53 PM
Author: Glenn Reese - EPC Stormwater
Color:
Layer:
Space:
Page Label: [1] 201662.08_FDR_map_Seg1-Segment-1

All areas of disturbance must be accounted for via WQ treatment or an applicable WQ exclusion. A table would help organize and summarize how all disturbances are accounted for. Two example tables have been provided here:

Subject: SW - Textbox with Arrow
Page Index: 206
Date: 2/20/2024 4:53:15 PM
Author: Glenn Reese - EPC Stormwater
Color:
Layer:
Space:
Page Label: [1] 201662.08_FDR_map_Seg1-Segment-1

All proposed disturbances must be within designated sub-basins to be accounted for in the report text and calculations.

Subject: File Attachment
Page Index: 206
Date: 2/20/2024 2:43:00 PM
Author: Glenn Reese - EPC Stormwater
Color:
Layer:
Space:
Page Label: [1] 201662.08_FDR_map_Seg1-Segment-1

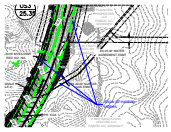


Subject: SW - Textbox with Arrow
Page Index: 206
Date: 2/20/2024 4:53:14 PM
Author: Glenn Reese - EPC Stormwater
Color:
Layer:
Space:
Page Label: [1] 201662.08_FDR_map_Seg1-Segment-1

Per DCMv2 Section 4.3, outlet pipe should be 18" minimum

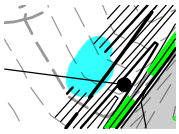
Subject: SW - Textbox with Arrow
Page Index: 206
Date: 2/21/2024 2:34:09 PM
Author: Glenn Reese - EPC Stormwater
Color:
Layer:
Space:
Page Label: [1] 201662.08_FDR_map_Seg1-Segment-1

Label as "existing Pond E from SF182"

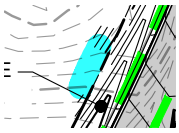


Subject: Callout
Page Index: 206
Date: 2/22/2024 9:45:35 AM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: [1] 201662.08_FDR_map_Seg1-Segment-1

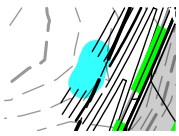
Show all existing utilities



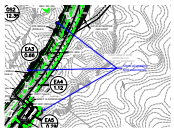
Subject:
Page Index: 206
Date: 2/22/2024 9:46:11 AM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: [1] 201662.08_FDR_map_Seg1-Segment-1



Subject:
Page Index: 206
Date: 2/22/2024 9:46:32 AM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: [1] 201662.08_FDR_map_Seg1-Segment-1

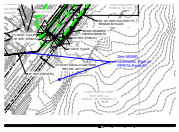


Subject:
Page Index: 206
Date: 2/22/2024 9:46:37 AM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: [1] 201662.08_FDR_map_Seg1-Segment-1



Subject: Callout
Page Index: 206
Date: 2/22/2024 9:47:06 AM
Author: Jeff Rice - EPC Engineering Review
Color:
Layer:
Space:
Page Label: [1] 201662.08_FDR_map_Seg1-Segment-1

show all grading and easements



Subject: Callout
Page Index: 206
Date: 2/22/2024 9:47:59 AM
Author: Jeff Rice - EPC Engineering Review
Color:
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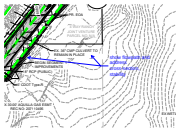
Page Label: [1] 201662.08_FDR_map_Seg1-Segment-1

See MSMD comments. Pipe to PPRTA Pond E?



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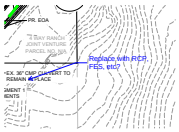
show flowpath and address cross-section, stability



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Date: 2/22/2024 10:08:13 AM
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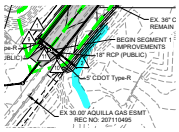
Replace with RCP, FES, etc?



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Page Index: 206
Date: 2/22/2024 10:08:26 AM
Author: Jeff Rice - EPC Engineering Review
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Revise drainage basins as applicable due to any road profile changes.

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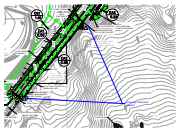
Revise drainage basins as applicable due to any road profile changes.



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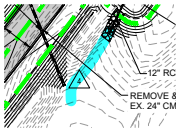
Show any easements required



Subject:
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Date: 2/22/2024 12:22:51 PM
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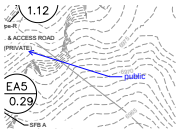
PRIVATE)



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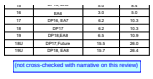
public



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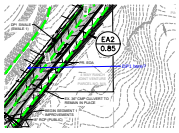
(not cross-checked with narrative on this review)



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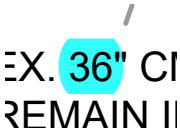
DP1 here?



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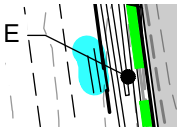
207 (7)



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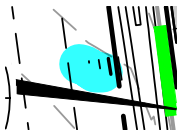

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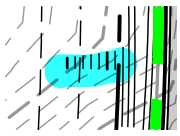

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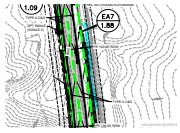

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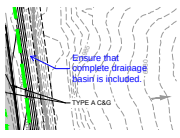

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Date: 2/22/2024 12:13:26 PM
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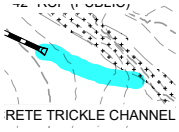
Ensure that complete drainage basin is included.



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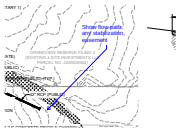

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Show flow path, any stabilization, easement