ENG-SF18020-R1-FDR.pdf Markup Summary

1 (1)		
DSD Proje SF-1820	Subject: Engineer Date: 8/7/2018 8:10:08 AM Author: Steve Kuehster Color: Page Index: 1	SF-1820
6 (2)		
Under State	Subject: Callout Date: 8/20/2018 3:06:22 PM Author: dsdrice Color: P Page Index: 6	What about Pond W-5 and outfall?
on with the wellands, consultant and the Amp of permit. Not the constantiant see-circuit welland, "Stepp Ranch Filing No. 2 will stigated will be Juono on the construction to 2: blobbled of the group on the sependary tent to have wellands deliberated in the Filing area.	Subject: Cloud+ Date: 8/20/2018 3:07:04 PM Author: dsdrice Color: Page Index: 6	are?
10 (5)		
ed up to the ow, form prev the OS3 basin	Subject: Engineer Date: 8/7/2018 8:11:42 AM Author: Steve Kuehster Color: Page Index: 10	
Construction of the function of the section of t	Subject: Engineer Date: 8/7/2018 8:20:25 AM Author: Steve Kuehster Color: Page Index: 10	The Final Drainage Report for Filing No. 2 will address the revisions from the previous report to the new Matrix report.
for fixed W. The decision paper user spread by Maria D tabelesis and the has strated or the only of the closes of large for Filley 3.2 to illustations for the strate matrix the strategiest of the strategiest of the strategiest of the strategiest of the	Subject: Engineer Date: 8/7/2018 8:33:04 AM Author: Steve Kuehster Color: Page Index: 10	Show Tract 'I' on the drainage map.
Barbarick al Drainage This is the ort. final drainage report, the or of PR32 revisions igure CU-9 should be headwatter addressed. lied.	Subject: Engineer Date: 8/7/2018 8:39:50 AM Author: Steve Kuehster Color: Page Index: 10	This is the final drainage report, the revisions should be addressed.
be vill red	Subject: Engineer Date: 8/7/2018 9:57:55 AM Author: Steve Kuehster Color: Page Index: 10	

11 (3)		
	Subject: Engineer Date: 8/7/2018 10:17:09 AM Author: Steve Kuehster Color: Page Index: 11	The Final Drainage Report for Filing No. 2, will address the revisions from the previous report to the n
42° RCP (PR36) to PR38. Upon faiture devict 1 and will release to historic release rates of Q sain GS2 will be accounted for in the calculation prainage Reportions Comment, This array of the same release to the same release same release to the same release to the same release matericated and will replease the construction of P33 (QS-45.9 cfs and Q100–115.2 cfs). Figure at wells arguing complex with required heat ale will be removed and PR36 will be installed	Subject: Engineer Date: 8/7/2018 12:13:54 PM Author: Steve Kuehster Color: Page Index: 11	See previous comment, this is Filing 2.
a) CONT up & experiments the the second with the OFT 1.8 k the adjustment of the output of the output of the second with the UP and the UP a	Subject: Engineer Date: 8/8/2018 7:26:30 AM Author: Steve Kuehster Color: Page Index: 11	Call out what permanent drainage feature replaces the temporary sediment basin at DP 44
13 (3)		
at the outlet. The p utfall, via a 48" RCl cfs) will routed via to Sand Creek will b	Subject: Engineer Date: 8/8/2018 11:31:25 AM Author: Steve Kuehster Color: Page Index: 13	will routed
summed flows (P) DP68 and outfall in sed TM-SCCS.	Subject: Engineer Date: 8/8/2018 11:32:30 AM Author: Steve Kuehster Color: Page Index: 13	TM-SCCS
<text><text><text><text><text><text></text></text></text></text></text></text>	Subject: Engineer Date: 8/8/2018 11:46:45 AM Author: Steve Kuehster Color: Page Index: 13	Spell out this acronym and call out that this outfall will be constructed with this development.
14 (5)		
	Subject: Engineer Date: 8/15/2018 10:42:04 AM Author: Steve Kuehster Color: Page Index: 14	Comments to highlighted text above: Show the existing 24 inch pipes on the proposed drainage map. Include discussion as to how the overflows in this area impact the development of Filing 2. (Some portion of these flows over tops Vollmer continues through Barbarick Subdivision and needs to be addressed in this report) Also, does the 3.5' x 5.5' HECMP and inlet conditions handle the 100 year storm? Does it overtop and flow towards the proposed housing area?
Ber 1 was an and an	Subject: Engineer Date: 8/15/2018 7:49:10 AM Author: Steve Kuehster Color: Page Index: 14	The existing roadside swale will provide adequate drainage, assuming the swale has been maintained

A status of the	Subject: Engineer Date: 8/15/2018 7:50:13 AM Author: Steve Kuehster Color: Page Index: 14	The existing roadside swale will provide adequate drainage, assuming the swale has been maintained. Fl
	Subject: Engineer Date: 8/15/2018 7:52:18 AM Author: Steve Kuehster Color: Page Index: 14	via an existing 24" CMP under Glider Loop
 Statistical control and the statistical contr	Subject: Engineer Date: 8/15/2018 7:52:32 AM Author: Steve Kuehster Color: Page Index: 14	via an existing 24" CMP
15 (5)		
t-grade inlet o a riprap fo osed roadsid	Subject: Pen Date: 8/8/2018 12:39:13 PM Author: Steve Kuehster Color: Page Index: 15	_
A UN 11 2014 I contain a set of contain a given as 10% in a given a set of contain a given as 10% in a given a set of contain a given as 10% in a given a given a given a given a given a in a given a	Subject: Engineer Date: 8/8/2018 12:40:20 PM Author: Steve Kuehster Color: Page Index: 15	The forebay will have to meet the requirements of a FS detention facility
where the state of the state o	Subject: Engineer Date: 8/8/2018 12:47:08 PM Author: Steve Kuehster Color: Page Index: 15	Please clarify when (Pond W-4) will be constructed
And an analysis of the second	Subject: Engineer Date: 8/8/2018 12:53:21 PM Author: Steve Kuehster Color: Page Index: 15	Call out the type of material (armoring) needed for flows this high in a swale.
ed to	Subject: Engineer Date: 8/8/2018 12:54:59 PM Author: Steve Kuehster Color: Page Index: 15	to
16 (3)		

Subject: Callout Date: 8/20/2018 3:34:30 PM Author: dsdrice Color: Page Index: 16

How?

r DP53. In the und rainage patterns an ows will routed sou and Q100=322.7 c of this basin, full s	Subject: Engineer Date: 8/9/2018 7:56:49 AM Author: Steve Kuehster Color: Page Index: 16	will routed
	Subject: Engineer Date: 8/9/2018 8:28:14 AM Author: Steve Kuehster Color: Page Index: 16	DP 54 and DP 55 developed flows will need to be treated in a permanent facility.
17 (2)		
viii eck her	Subject: Highlight Date: 8/20/2018 3:01:28 PM Author: dsdrice Color: Page Index: 17	
d to be similar to what was anticipated in the SCDI tion shall be standard to land the overance of floware transmission of the standard standard standard standard support the standard standard standard standard (now for pond outfall)	Subject: Callout Date: 8/20/2018 3:02:33 PM Author: dsdrice Color: P Page Index: 17	(now for pond outfall)
18 (5)		
timi:	Subject: Engineer Date: 8/15/2018 10:51:52 AM Author: Steve Kuehster Color: Page Index: 18	t
	Subject: Engineer Date: 8/15/2018 10:51:58 AM Author: Steve Kuehster Color: Page Index: 18	The approved Subdivision Improvements Agreement for Sterling Ranch Filing No. 2 address the timing and funding for channel improvements.
	Subject: Engineer Date: 8/15/2018 11:07:57 AM Author: Steve Kuehster Color: Page Index: 18	Comment on highlighted text. The SIA did not call out the channel improvements that need to be constructed with this Filing. 1. Channel improvements need to be constructed that protect the outfall. 2. These improvements need to be evaluated due to the channel being unimproved for a long distance downstream. 3. Call out that all Sterling Ranch portions of Sand creek will be maintained by the Sterling ranch district until the channel is impproved and accepted.
*Dete	Subject: Engineer Date: 8/9/2018 8:21:12 AM Author: Steve Kuehster Color: Page Index: 18	*D

------Subject: Engineer *Detc Author: Steve Kuehster Color: Page Index: 18

*D

19 (4)		
	Subject: Callout Date: 8/20/2018 3:04:38 PM Author: dsdrice Color: Page Index: 19	clarify where this comparison applies.
A subject to the subject of the subj	Subject: Cloud+ Date: 8/20/2018 3:09:58 PM Author: dsdrice Color: Page Index: 19	?
Include a section called "Four Step Process" that develop-indigneer develop-indigneer develop-indigneer develop-indigneer develop-indigneer develop-indigneer develop-indigneer attraction of the stormwater management & treatment for this Ste.	Subject: Engineer Date: 8/9/2018 8:33:16 AM Author: Steve Kuehster Color: Page Index: 19	Include a section called "Four Step Process" that discuses the process the developer/engineer followed in the design of the stormwater management & treatment for this Site.
and encode the Automation of the Automation and Automat Automation and Automation	Subject: Engineer Date: 8/9/2018 8:42:33 AM Author: Steve Kuehster Color: Page Index: 19	Include a tabulation of the offsite/channel improvements that need to be constructed with Filing 2.
20 (1)		
Per disalar file recent	Subject: Text Box Date: 8/20/2018 2:59:57 PM Author: dsdrice Color: Page Index: 20	(Not checked this review)
21 (1)		
 Marcia Andreas Carlos (Marcia) (Marcia)	Subject: Text Box Date: 8/20/2018 3:08:40 PM Author: dsdrice Color: Page Index: 21	MDDP 2018 (TBD)
119 (1)		
STRIPED MEDI/ STRIPED MEDI/ 22%_TYP. 27%	Subject: Text Box Date: 8/20/2018 2:22:27 PM Author: dsdrice Color: Page Index: 119	Revise

120 (1)



Subject: Text Box Date: 8/20/2018 2:22:39 PM Author: dsdrice Color: Page Index: 120

226 (1)

Reference ECM 3.3.1 D Subject: Text Box Date: 8/20/2018 2:32:11 PM Author: dsdrice Color: Page Index: 226

260 (1)



Subject: Cloud+ Date: 8/20/2018 2:43:34 PM Author: dsdrice Color: Page Index: 260

267 (1)



Subject: Cloud+ Date: 8/20/2018 2:46:21 PM Author: dsdrice Color: Page Index: 267

280 (1)

Subject: Engineer Date: 8/15/2018 11:37:43 AM Author: Steve Kuehster Color: Page Index: 280

281 (1)



Subject: Engineer Date: 8/7/2018 7:52:21 AM Author: Steve Kuehster Color: Page Index: 281

284 (20)



Subject: Engineer Date: 8/15/2018 10:16:48 AM Author: Steve Kuehster Color: Page Index: 284



Subject: Engineer Date: 8/15/2018 10:17:49 AM Author: Steve Kuehster Color: Page Index: 284 Revise

Reference ECM 3.3.1.D

Adjust to be <1; provide comparison to historic drainage area allowable flows for all return periods.

This presents a safety issue

Provide the SDI worksheets that demonstrate the detention ponds comply with Colorado Revised Statute 37-92-602(8). Provide this as a separate document.

Please provide an additional existing condition drainage map at the same scale as the proposed condition map. This exhibit should show the show the boundary for this site.

Call out on this plan the outfall points of the approved Barbarick Subdivision Final Drainage Report.

Call-out how they are collected and conveyed.

Subject: Engineer Date: 8/15/2018 10:33:42 AM Author: Steve Kuehster Color: Page Index: 284

.....

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road.

Include additional views of this plan sheet, so they will be legible on 11X17 inch print-outs.



-----Subject: Engineer Date: 8/15/2018 7:17:06 AM Author: Steve Kuehster Color: 📘 Page Index: 284

Enlarge easement area to include all necessary outfall and channel improvement areas.



Subject: Arrow Date: 8/15/2018 7:17:25 AM Author: Steve Kuehster Color: Page Index: 284



Subject: Engineer Date: 8/15/2018 7:23:39 AM Author: Steve Kuehster Color: Page Index: 284



Subject: Engineer Date: 8/16/2018 9:35:04 AM Author: Steve Kuehster Color: Page Index: 284

_____ Subject: Text Box Date: 8/17/2018 10:43:55 AM Author: dsdrice

Show ultimate grading, contours and general layout of Marksheffel Road adjacent to Pond W-4, to ensure that both the pond and the road will fit here.

Show ultimate condition of Vollmer to ensure it will fit with proposed improvements.

Label City of Colorado Springs Boundary

..... Show and label all existing improvements including

Color:

Color: 📘 Page Index: 284

Subject: Callout

Date: 8/17/2018 10:54:27 AM Author: dsdrice Page Index: 284

Show Shilor

Subject: Text Box Date: 8/17/2018 10:55:06 AM Author: dsdrice Color: Page Index: 284

Subject: Cloud+ Date: 8/17/2018 10:56:07 AM Author: dsdrice Color: Page Index: 284

90 degree bend?

Show Shiloh Mesa



Subject: Arrow Date: 8/17/2018 11:36:58 AM Author: dsdrice Color: Page Index: 284

Culvert

.....

.....



Subject: Callout Date: 8/17/2018 11:54:09 AM Author: dsdrice Color: Page Index: 284

Label drainage easements



Subject: Callout Date: 8/20/2018 9:12:47 PM Author: dsdrice Color: Page Index: 284

Show sanitary force main



Subject: Cloud+ Date: 8/20/2018 9:14:17 PM Author: dsdrice Color: Page Index: 284 Is a check needed here for protection of the force main?

.....



Subject: Arrow Date: 8/7/2018 11:51:40 AM Author: Steve Kuehster Color: Page Index: 284



Subject: Arrow Date: 8/7/2018 11:51:55 AM Author: Steve Kuehster Color: Page Index: 284

Subject: Engineer Date: 8/7/2018 8:12:06 AM Author: Steve Kuehster Color: Page Index: 284

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Subject: Engineer Date: 8/8/2018 7:24:46 AM Author: Steve Kuehster Color: Page Index: 284

......



Subject: Highlight Date: 8/8/2018 8:42:54 AM Author: Steve Kuehster Color: Page Index: 284 Call out the (type) of lot grading for these lots to prevent more than three lots that drain down the back lot line.

Grading Eros Plan V_1.pdf Markup Summary

1 (5)		
The second secon	Subject: Image Date: 8/20/2018 5:18:33 PM Author: dsdrice Color: Page Index: 1	
Are hydrosongester, underbase, parkine desprays passis, and and an	Subject: Text Box Date: 8/20/2018 7:37:08 PM Author: dsdrice Color: Page Index: 1	Are hydrocampaction, underdrains, positive drainage swales, and roof drain distances from homes addressed adequately?
Refer EARD Been Contra Allow PCD (revise all) PCD (revise	Subject: Cloud+ Date: 8/20/2018 8:50:15 AM Author: dsdrice Color: Page Index: 1	PCD (revise all)
L VERIFY THE LOCATION OF EXI: VG EARTHWORK OPERATIONS AN D BY CTL THOMEBON, IRC. AND T OF CONSTRUCTION, FOR PROJ T A PERMIT APPLICATION, FOR S TER QUALITY DIVISION. THE AP THIS GRADING AND EROSION C	Subject: Pen Date: 8/9/2018 11:23:04 AM Author: Steve Kuehster Color: Page Index: 1	no
	Subject: Engineer Date: 8/9/2018 11:25:15 AM Author: Steve Kuehster Color: Page Index: 1	Entech Engineering, Identify the Report by job number or report date.
2 (18)		
	Subject: Engineer Date: 8/13/2018 7:25:47 AM Author: Steve Kuehster Color: Page Index: 2	Call out side lot swales or lot types with side lot swales for these lots.
	Subject: Arrow Date: 8/13/2018 7:26:34 AM Author: Steve Kuehster Color: Page Index: 2	
	Subject: Cloud+ Date: 8/16/2018 10:18:00 PM Author: dsdrice Color: Page Index: 2	Unplatted?



Subject: Cloud+ Date: 8/16/2018 11:24:38 PM Author: dsdrice Color: Page Index: 2

Crosspan?

_____ Subject: Text Box Date: 8/16/2018 11:26:53 PM Author: dsdrice Color: Page Index: 2

.....

Show all existing improvements.

Subject: Engineer Date: 8/16/2018 9:28:20 AM Author: Steve Kuehster Color: Page Index: 2

Show ultimate condition of extended Marsheffel Road and adjacent Vollmer Road to verify Pond W-4 & Vollmer Road design.



..... Subject: Arrow Date: 8/16/2018 9:28:32 AM Author: Steve Kuehster Color: Page Index: 2



_____ Subject: Arrow Date: 8/9/2018 11:54:07 AM Author: Steve Kuehster Color: Page Index: 2



Subject: Engineer Date: 8/9/2018 11:54:36 AM Author: Steve Kuehster Color: Page Index: 2



Subject: Engineer Date: 8/9/2018 12:21:15 PM Author: Steve Kuehster Color: Page Index: 2

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Subject: Engineer Date: 8/9/2018 12:21:36 PM Author: Steve Kuehster Color: Page Index: 2



Subject: Engineer Date: 8/9/2018 12:27:18 PM Author: Steve Kuehster Color: Page Index: 2

Call out the correct delineation for the erosion control blanket, this is the delineation for Wetlands.

.....

Note comment in the drainage report, call out a typical Full spectrum detention pond for-bay structure of this outfall.

Provide access to this for-bay.

See comments on the Drainage report. The size of the flows in this graded channel will require armoring/channel design to prevent erosion.



Subject: Arrow Date: 8/9/2018 12:33:27 PM Author: Steve Kuehster Color: Page Index: 2



Subject: Engineer Date: 8/9/2018 12:33:59 PM Author: Steve Kuehster Color: Page Index: 2

some call outs are shaded and some are dark, please call out line type the same for both.

Subject: Engineer Date: 8/9/2018 12:41:02 PM Author: Steve Kuehster Color: Page Index: 2

.....

Call out slopes.

stop erosion.

Subject: Engineer Date: 8/9/2018 12:42:30 PM Author: Steve Kuehster Color: Page Index: 2

Call out slopes, steep slopes require netting to



Subject: Engineer Date: 8/9/2018 12:48:18 PM Author: Steve Kuehster Color: Page Index: 2

Call out contours on both exising and proposed grading.

PRELIMINARY PAUL 1 PAUL BORDARY (1P) Subject: Arrow Date: 8/9/2018 12:48:49 PM Author: Steve Kuehster Color: Page Index: 2

3 (7)



Subject: Engineer Date: 8/13/2018 7:41:13 AM Author: Steve Kuehster Color: Page Index: 3



Subject: Engineer Date: 8/13/2018 7:47:20 AM Author: Steve Kuehster Color: Page Index: 3



Subject: Callout Date: 8/16/2018 11:38:43 PM Author: dsdrice Color: Page Index: 3 Call out slopes, slopes over 3:1 require protection.

See comment on Drainage report, Call out energy dissipation for this out fall. Also provide Drainage easement, etc. for this out fall.

.....

Label



..... Subject: Callout Date: 8/16/2018 11:39:33 PM Author: dsdrice Color: Page Index: 3

Label sanitary force main.

Subject: Callout Date: 8/16/2018 11:41:16 PM Author: dsdrice Color: Page Index: 3

Adjust access road so that sanitary force main is visible and label.

-----Subject: Cloud+ Date: 8/16/2018 11:42:20 PM Author: dsdrice Color: Page Index: 3

Provide or reference complete details

Subject: Text Box Date: 8/16/2018 11:42:59 PM Author: dsdrice Color: Page Index: 3

Include all necessary channel improvements upstream and downstream.

.....

4 (3)



Subject: Engineer Date: 8/13/2018 7:48:11 AM Author: Steve Kuehster Color: Page Index: 4

_____ Subject: Engineer Date: 8/13/2018 7:57:56 AM Author: Steve Kuehster Color: Page Index: 4

Subject: Engineer Date: 8/13/2018 8:33:54 AM Author: Steve Kuehster Color: Page Index: 4

See comment on drainage report. Requires a concrete structure for ease of clean-out.

Extend maintenance road to this forbay

5 (6)

Subject: Engineer Date: 8/13/2018 8:42:45 AM Author: Steve Kuehster Color: Page Index: 5



..... Subject: Arrow Date: 8/13/2018 8:45:16 AM Author: Steve Kuehster Color: Page Index: 5

See comment on drainage report, Velocities exceed permissible limits in DCM 1 & 2 for a soft lined channel.

1

Subject: Arrow Date: 8/13/2018 8:46:04 AM Author: Steve Kuehster Color: Page Index: 5

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Subject: Engineer Date: 8/13/2018 8:49:19 AM Author: Steve Kuehster Color: Page Index: 5

call out permission documents that allows grading on these and other private properties



Subject: Engineer Date: 8/13/2018 9:06:40 AM Author: Steve Kuehster Color: Page Index: 5



EXIST MIN CONT

EHICLE TRACKING CONTROL

SILT FENCE/ LIMITS OF CONSTRUCTION

6 (5)

ツーノ

Subject: Group Date: 8/15/2018 11:55:30 AM Author: Steve Kuehster Color: Page Index: 5

Subject: Engineer

Color: Page Index: 6

Date: 8/13/2018 8:54:28 AM

Author: Steve Kuehster

3.5' x 5.5' HECMP

Temporary Sediment Basin?

constructed on the GEC plan.

silt fence should follow contours.

.....

Don't show improvements that aren't being

Subject: Callout Date: 8/16/2018 11:50:51 PM Author: dsdrice Color: Color: Page Index: 6

Subject: Callout Date: 8/16/2018 11:53:31 PM Author: dsdrice Color: Page Index: 6

label

strater services and block

Subject: Callout Date: 8/16/2018 11:54:37 PM Author: dsdrice Color: Page Index: 6

Subject: Cloud+ Date: 8/16/2018 11:55:34 PM Author: dsdrice Color: Page Index: 6

Provide separate LOC and LOD linetypes.

.....

7 (2)		
A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR A CONT	Subject: Engineer Date: 8/15/2018 12:10:10 PM Author: Steve Kuehster Color: Page Index: 7	Call out the documentation that allows this grading on private property.
SCI5U PERM ERUSION CONTROLELANKET CHECK DAM Include the detail for check dams similar to the other details on the last plan sheet.	Subject: Engineer Date: 8/16/2018 9:07:30 AM Author: Steve Kuehster Color: Page Index: 7	Include the detail for check dams similar to the other details on the last plan sheet.
8 (6)		
	Subject: Engineer Date: 8/15/2018 12:19:43 PM Author: Steve Kuehster Color: Page Index: 8	These designations are the same for two different items.
	Subject: Arrow Date: 8/15/2018 12:19:54 PM Author: Steve Kuehster Color: Page Index: 8	
	Subject: Engineer Date: 8/15/2018 12:22:17 PM Author: Steve Kuehster Color: Page Index: 8	Call out the 2 year storm velocities in these channels that demonstrate the North American Green erosion control is designed for this application.
	Subject: Arrow Date: 8/15/2018 12:22:44 PM Author: Steve Kuehster Color: A Page Index: 8	
This comment is for all channels on these two sheets that are longer than 200 feet.	Subject: Engineer Date: 8/15/2018 12:29:08 PM Author: Steve Kuehster Color: Page Index: 8	This comment is for all channels on these two sheets that are longer than 200 feet.
	Subject: Arrow Date: 8/15/2018 12:29:42 PM Author: Steve Kuehster Color: Page Index: 8	

9 (9)

 Subject: Engineer Date: 8/15/2018 12:14:49 PM Author: Steve Kuehster Color: Page Index: 9

Subject: Engineer Date: 8/15/2018 12:14:53 PM Author: Steve Kuehster Color: (CD) 🍈 Page Index: 9 _____ Subject: Engineer These designations are the same for different Date: 8/15/2018 12:16:20 PM items. Author: Steve Kuehster Color: 📘 Page Index: 9 _____ Subject: Engineer Date: 8/15/2018 12:17:04 PM Author: Steve Kuehster Color: Page Index: 9 Subject: Engineer Date: 8/15/2018 12:17:07 PM Author: Steve Kuehster Color: Page Index: 9 _____ Subject: Engineer Date: 8/15/2018 12:17:10 PM Author: Steve Kuehster Color: Page Index: 9 Subject: Engineer See comment on velocities, previous page. Date: 8/15/2018 12:31:00 PM Author: Steve Kuehster Color: Page Index: 9 Subject: Arrow Date: 8/15/2018 12:31:17 PM Author: Steve Kuehster Color: Page Index: 9 Subject: Arrow Date: 8/15/2018 12:31:51 PM (CD) Author: Steve Kuehster Color: Page Index: 9 10 (5) M ERUSION Subject: Engineer please review the requirements of check dams, Date: 8/13/2018 9:21:23 AM they should be used for 1 to 10 acre basin flows, Author: Steve Kuehster much smaller than this application. Color: Page Index: 10 ---:



Subject: Arrow Date: 8/13/2018 9:21:45 AM Author: Steve Kuehster Color: Page Index: 10



Subject: Engineer Date: 8/13/2018 9:25:53 AM Author: Steve Kuehster Color: Page Index: 10

Provide calculations that this channel treatment NAG SC150 will handle the velocities on a channel this size. In FDR?

.....



Subject: Arrow Date: 8/13/2018 9:26:50 AM Author: Steve Kuehster Color: Page Index: 10

Subject: Highlight Date: 8/16/2018 9:03:38 AM Author: Steve Kuehster Color: Page Index: 10

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11 (6)



Subject: Engineer Date: 8/13/2018 9:39:48 AM Author: Steve Kuehster Color: Page Index: 11

The pond W-4 outfall temporary diversion swale in lieu of constructing the permanent pipe will need to be designed and armored to be non erosive, per El Paso County criteria for open channels.



Subject: Arrow Date: 8/16/2018 7:59:44 AM Author: Steve Kuehster Color: Page Index: 11



Subject: Engineer Date: 8/16/2018 8:02:57 AM Author: Steve Kuehster Color: Page Index: 11

Subject: Pen Date: 8/16/2018 8:15:43 AM Author: Steve Kuehster Color: Page Index: 11



Subject: Callout Date: 8/17/2018 12:07:12 AM Author: dsdrice Color: Page Index: 11 See comment on page GR10, This channel will erode with these flows, slopes & velocities. & and pipe sediment into Pond W-5 & Sand Creek.

Ensure that all tract labels match the plat.



Subject: Callout Date: 8/17/2018 12:08:33 AM Author: dsdrice Color: Page Index: 11

Is this road being abandoned?

ENG-SF18020-R1-CDs.pdf Markup Summary

1 (8)		
An argument between the second	Subject: Engineer Date: 8/13/2018 10:31:35 AM Author: Steve Kuehster Color: Page Index: 1	Use the signature block for Construction Drawings, this one is for drainage only.
	Subject: Arrow Date: 8/13/2018 10:32:12 AM Author: Steve Kuehster Color: Page Index: 1	
OF THE DESIGN, DIMENSIONS, AND/OR I S DOCUMENT ASSURES NO RESPONSED JUNERUNTS OF THE EL PASO COUNT L The ¹ In accordance with ECM Section 1.12* paragraph is missing.	Subject: Engineer Date: 8/13/2018 10:38:27 AM Author: Steve Kuehster Color: Page Index: 1	The "In accordance with ECM Section 1.12" paragraph is missing.
ING SIGNAGE &	Subject: Highlight Date: 8/20/2018 11:32:01 AM Author: Steve Kuehster Color: Page Index: 1	FEBRUARY
SHEET 2 NOTES & DETAIL SHEET SHEET 3 PLAN & PROPILE - NITE SHEET 3 PLAN & PROPILE - NITE SHEET 5 PLAN & PROPILE - PRE SHEET 6 SLANK& & STRIMP PL Provide a table of pipe stang to include velocities.	Subject: Engineer Date: 8/20/2018 11:34:29 AM Author: Steve Kuehster Color: Page Index: 1	Provide a table of pipe sizing to include velocities
SHELI J FLAN & PROFILE - NILE SHELI 4 FLAN & PROFILE - ULTI SHELI 5 FLAN & PROFILE - PRO SHELI 6 SCHWIG & STRPING FL	Subject: Engineer Date: 8/20/2018 11:35:36 AM Author: Steve Kuehster Color: Page Index: 1	
Include a schedular blag heat plast explains the plasting terms Terms Ummate Ummate which streams, while respective timing of responsements.	Subject: Engineer Date: 8/20/2018 12:13:49 PM Author: Steve Kuehster Color: Page Index: 1	Include a schedule/table here that explains the phasing Temporary Interim Ultimate. The table should state which streets, with the respective timing of improvements.
Also see scanned redlines.	Subject: Text Box Date: 8/21/2018 12:16:51 AM Author: dsdrice Color: Page Index: 1	Also see scanned redlines.

2 (6)		
	Subject: Callout Date: 8/16/2018 9:35:56 PM Author: dsdrice Color: Page Index: 2	This doesn't match the Preliminary Plan SP-14-015
ernuley, for honors annue be fet up letter to be on stile at the take of the second to Assue shall for a second to a still be taken to a be the correct designation for DED is now Planning and community development, PCD.	Subject: Engineer Date: 8/20/2018 11:40:36 AM Author: Steve Kuehster Color: Page Index: 2	Use the correct designation for DED it is now Planning and community development, PCD.
	Subject: Cloud+ Date: 8/20/2018 9:18:20 AM Author: dsdrice Color: Page Index: 2	Revise to County standards
Routing (my) J Sector La FORENCE DELANCE DELANCE PARALLE FORENTIAL RAME DELANCES TOTAL SECTOR SEC	Subject: Cloud+ Date: 8/20/2018 9:19:18 AM Author: dsdrice Color: Page Index: 2	160'
	Subject: Cloud+ Date: 8/20/2018 9:19:20 AM Author: dsdrice Color: Page Index: 2	Revise to half of County standard cross-section.
ANT ERRUR:	Subject: Highlight Date: 8/20/2018 9:19:49 AM Author: dsdrice Color: Page Index: 2	
3 (5)		
SEE STRLING RANCH FUNG 2 GRADING FUAN FOR THEODARY ONE RESON SMALL DETALS See comment on drainage report. Show the proposed RCP construction.	Subject: Engineer Date: 8/20/2018 11:45:36 AM Author: Steve Kuehster Color: Page Index: 3	See comment on drainage report. Show the proposed RCP construction.
Call out location of Sterling Ranch Road, on the profile.	Subject: Engineer Date: 8/20/2018 11:58:08 AM Author: Steve Kuehster Color: Page Index: 3	Call out location of Sterling Ranch Road, on the profile.
53, E	Subject: Highlight Date: 8/20/2018 12:00:31 PM Author: Steve Kuehster Color: Page Index: 3	



13 (1)

FUTURE VOLLMER CENTERLINE Provide arrow to depict which line is the centerline OW LINE Subject: Engineer Date: 8/20/2018 8:58:52 AM Author: Steve Kuehster Color: Page Index: 13

Provide arrow to depict which line is the centerline.

24 (2)		
	Subject: Highlight Date: 8/21/2018 12:13:37 AM	
UNTY <mark>00</mark> T, INCLL	Color: Page Index: 24	
L BAN, MANN AN FRANK ADAMS IN A AND DAMY MY, MANNA MIN MIN MIN AN AND AN AN A MANNA MIN ANA ANA ANA ANA ANA ANA ANA ANA ANA A	Subject: Text Box	Provide Rypum Dr. typical section (36' payed) per
Pould Sprun Dr. tytodi antion (3F pavel) per Politikary Par	Date: 8/21/2018 12:37:51 AM Author: dsdrice Color:	Preliminary Plan.
	Page Index: 24	
27 (2)		
	Subject: Text Box	
Is there a pond in the tract adjacent to	Date: 8/20/2018 10:01:03 AM	Is there a pond in the tract adjacent to the Klosk? Please see criteria regarding hand rails if
the Klosk? Please see onteria regarding hand rails if applicable.	Author: dsdparsons	applicable.
FOR WALL USER SETALS	Page Index: 27	
	Subject: Callout	Droliminary Dian typical addition have ("D") in
and the second	Date: 8/21/2018 12:43:55 AM	different - collector.
	Page Index: 27	
53 (5)		
	Subject: Highlight	
	Author: dsdparsons	
	Color:	
	Page Index: 53	
	Subject: Text Box	Is this where Marksheffel comes through? Dos the
is this where McKenhelfall comes through? Dos the output work in this location	Author: dsdparsons	outfall work in this location?
	Color:	
	Page Index: 53	
Å	Subject: Text Box	
WRONG DIRECTION	Date: 8/20/2018 9:55:26 AM	WIGHO DIRECTION
S.	Color:	
(Page Index: 53	
	Subject: Highlight	
	Date: 8/20/2018 9:55:46 AM	
Y Jan Jan	Color:	
/	Page Index: 53	



Subject: Highlight Date: 8/20/2018 9:55:49 AM Author: dsdparsons Color: Page Index: 53