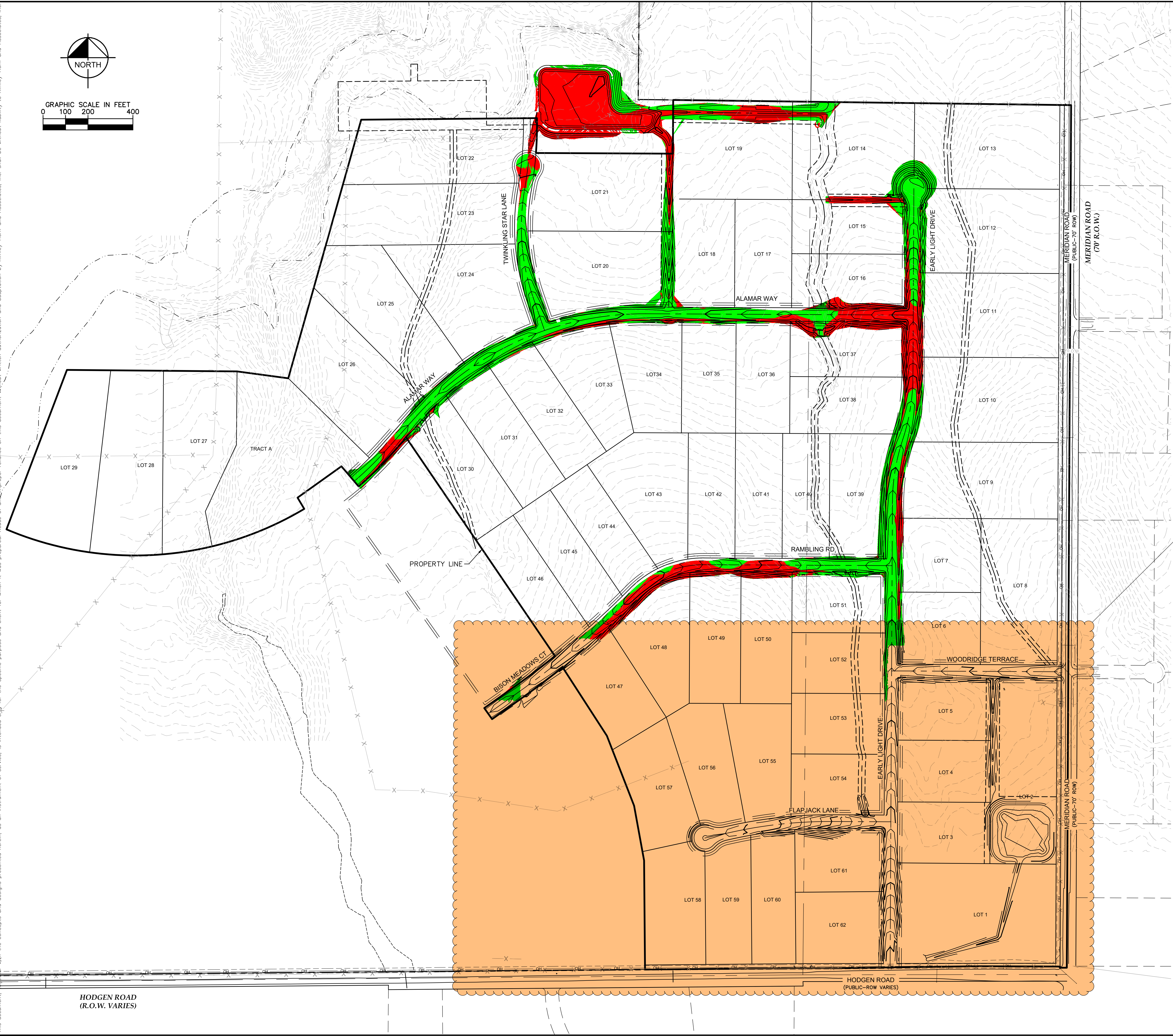
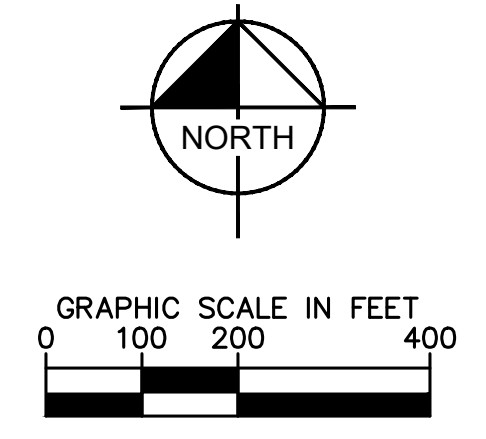




Plotted By: Kofford, Kevin - Sheet: WINSOME P2 - Layout: CUT FILL MAP - February 18, 2021 11:21:13am - K:\DEN-Civil\196106000 - Winsome P2\CADD\PlanSheets\196106000\CUT\_FILL-PRE.dwg  
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**LEGEND**

CUT AREA

FILL AREA

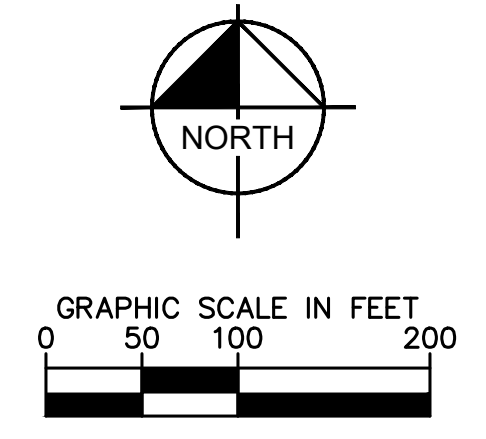
TOTAL CUT: 62,362 CY  
 TOTAL FILL: 63,475 CY  
 NET: 1,112 CY (FILL)  
 \*RAW NET VALUE- NO FILL FACTOR APPLIED

show cut/fill in this area.

HODGEN ROAD  
(R.O.W. VARIES)

<b>WINSOME FILING NO. 2</b> PREPARED FOR <b>WINSOME LLC</b>	<b>CUT FILL MAP</b>	<b>Kimley»Horn</b> <small>© 2020 KIMLEY-HORN AND ASSOCIATES, INC.          2 N NEVADA AVE SUITE 300, COLORADO SPRINGS, CO 80903          PHONE: 719-453-0180          WWW.KIMLEY-HORN.COM</small>
SHEET NUMBER <b>2</b>	EL PASO COUNTY CO	REVISIONS No. _____ DATE _____ BY _____
KHA PROJECT 0196106000 DATE 01/08/2021 SCALE AS SHOWN DESIGNED BY KHTAM DRAWN BY KHTAM CHECKED BY _____ TLC DATE: _____	LICENSED PROFESSIONAL KEVIN KOFFORD CO LICENSE NUMBER 57234	No. _____ DATE _____ BY _____

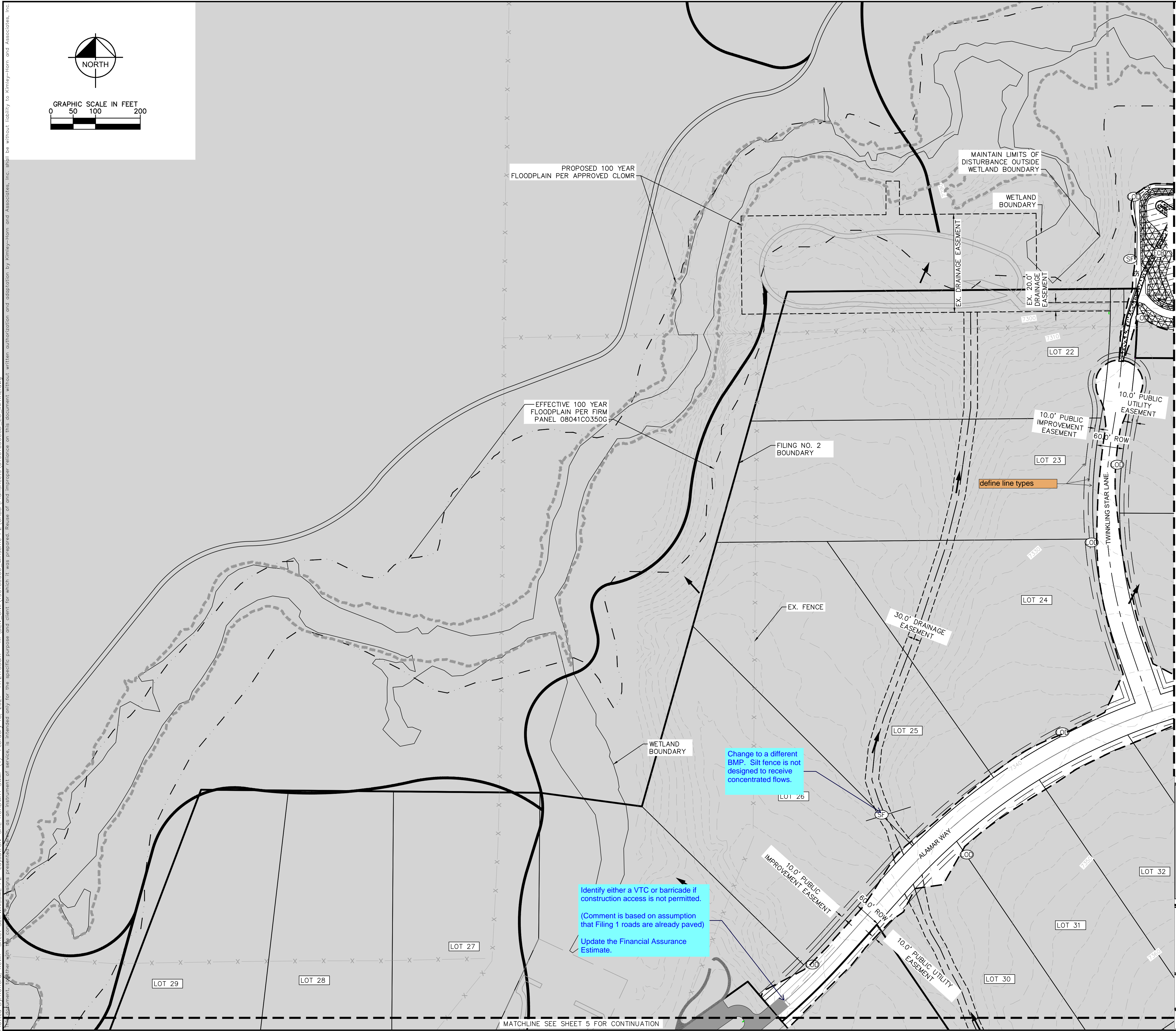
Plotted By: Kofford, Kevin. Sheet: WINSOME P2 - LAYOUT ON-SITE ROADWAY SWMP (1). February 18, 2021. 11:21:35am. K:\DEN\_Civil\196106000\_Winsome P2\CADD\PlanSheets\0196106000-EC\_INITIAL.dwg  
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LEGEND	
	PROPERTY LINE
	100 YEAR FLOODPLAIN
	WETLAND BOUNDARY
	OD LIMITS OF DISTURBANCE
	SF SILT FENCE
	CF CONSTRUCTION FENCE
	SCL SEDIMENT CONTROL LOGS
	IP CULVERT INLET/OUTLET PROTECTION
	WA CONCRETE WASHOUT AREA
	SS STABILIZED STAGING AREA
	ECB EROSION CONTROL BLANKET
	VTC VEHICLE TRACKING CONTROL
	SP SOIL STOCKPILE
	SB TEMPORARY SEDIMENT BASIN
	SM SEEDING AND MULCHING
	EXISTING FLOW ARROW
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR

LIMITS OF CONSTRUCTION	
ONSITE DISTURBANCE	= ±32.18 ACRES
OFFSITE DISTURBANCE	= ±0.55 ACRES
<b>TOTAL</b>	<b>= ±32.73 ACRES</b>

- NOTES**
- THE INTENT OF THIS PLAN IS TO IDENTIFY THE EROSION CONTROL PRACTICES RECOMMENDED. THE CONTRACTOR SHALL REFERENCE ADDITIONAL CONSTRUCTION PLANS FOR DEMOLITION OF EXISTING AND CONSTRUCTION OF PROPOSED IMPROVEMENTS.
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  - REFERENCE SHEETS 04 - 07 FOR PERMANENT GRADING OF PERMANENT DITCHES



PROPOSED 100 YEAR FLOODPLAIN PER APPROVED CLOMR

MAINTAIN LIMITS OF DISTURBANCE OUTSIDE WETLAND BOUNDARY

EFFECTIVE 100 YEAR FLOODPLAIN PER FIRM PANEL 08041C0350G

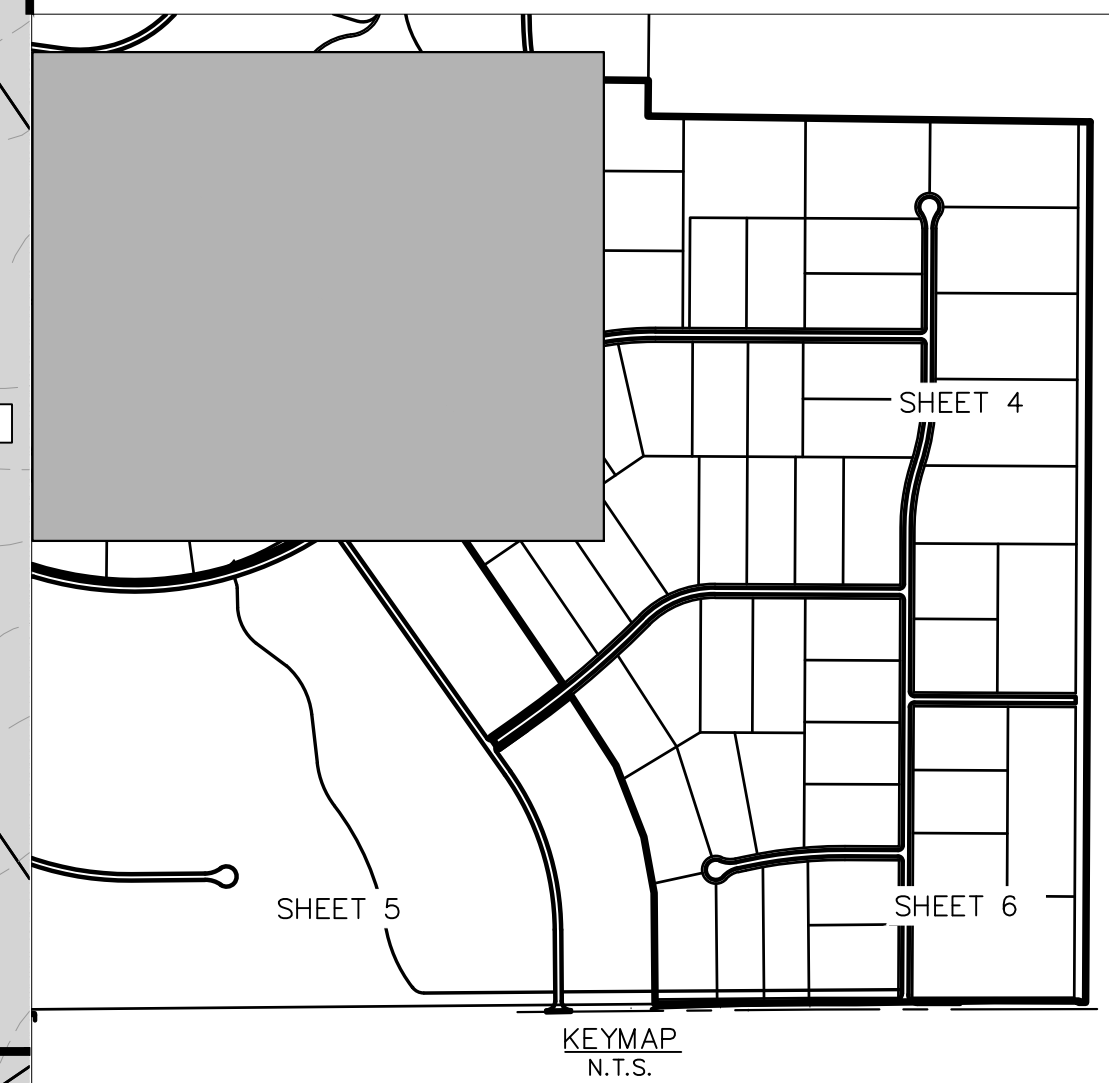
FILING NO. 2 BOUNDARY

define line types

WETLAND BOUNDARY

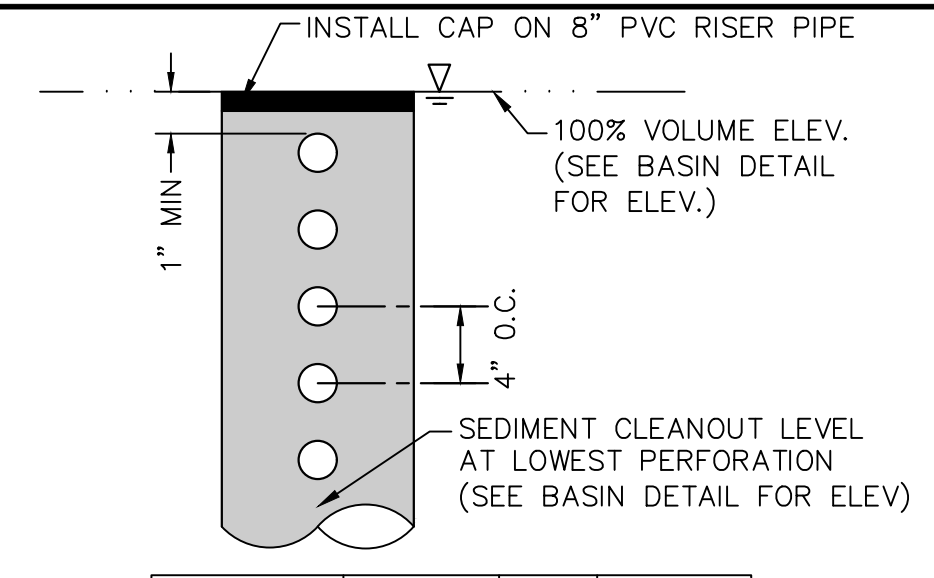
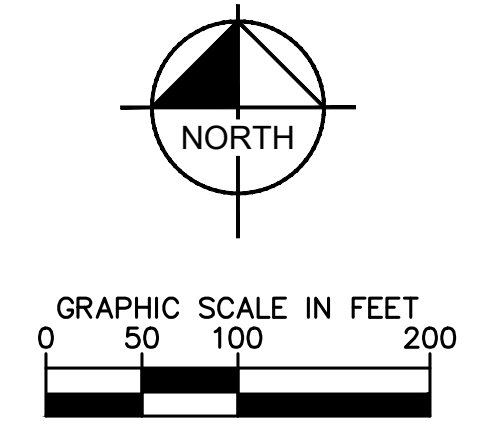
Change to a different BMP. Silt fence is not designed to receive concentrated flows.

Identify either a VTC or barricade if construction access is not permitted.  
(Comment is based on assumption that Filing 1 roads are already paved)  
Update the Financial Assurance Estimate.

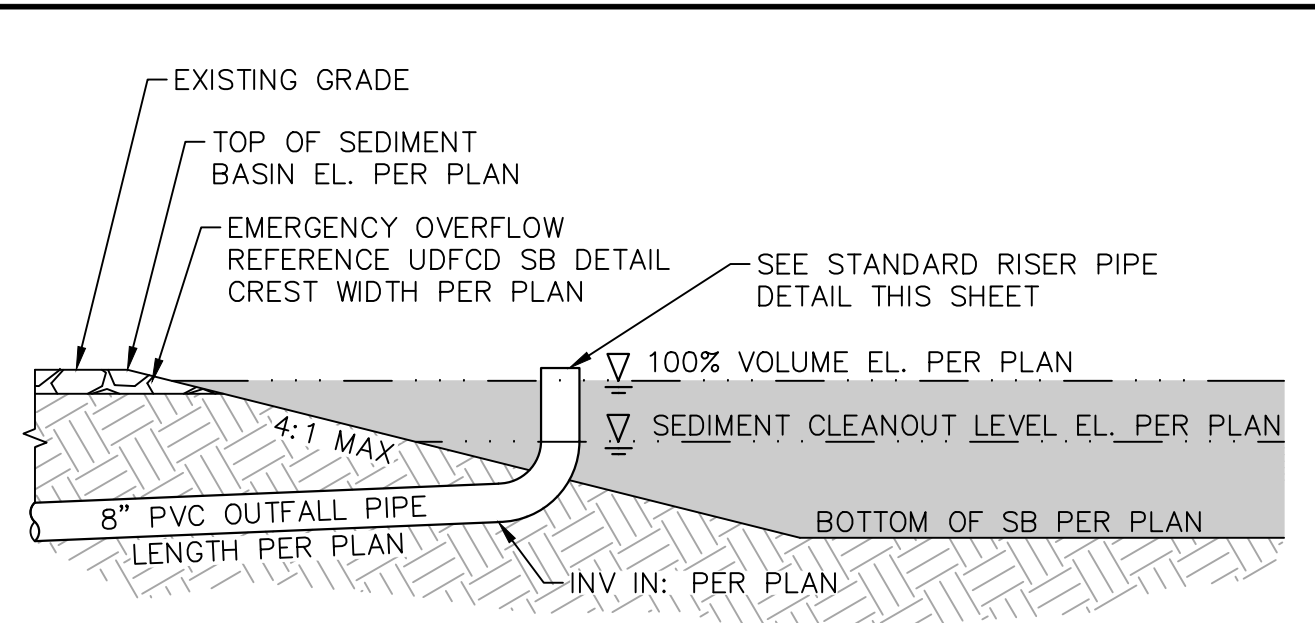


		LICENSED PROFESSIONAL KEVIN KOFFORD CO LICENSE NUMBER 57234	
		KHA PROJECT 019610600 DATE 01/08/2021 SCALE AS SHOWN DESIGNED BY KHTAM DRAWN BY KHTAM CHECKED BY TLC DATE:	
<b>WINSOME FILING NO. 2</b> PREPARED FOR <b>WINSOME LLC</b>		SHEET NUMBER <b>3</b>	
EL PASO COUNTY CO		REVISIONS No. _____ BY _____ DATE _____	

Plotted By: Kofford, Kevin. Sheet: WINSOME P2. Layout: ON-SITE ROADWAY SWMP (2). February 18, 2021. 11:21:40am. K:\ADEN\_Civil\196106000-Winsome P2\CADD\PlanSheets\0196106000-EC\_INITIAL.dwg  
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RISER PIPE	# OF COLUMNS	# OF ROWS	HOLE DIAMETER
SB-POND 5	1	5	1-5/8"
SB-POND 6	1	5	1-5/8"



**SEDIMENT BASIN DETAIL**  
N.T.S.

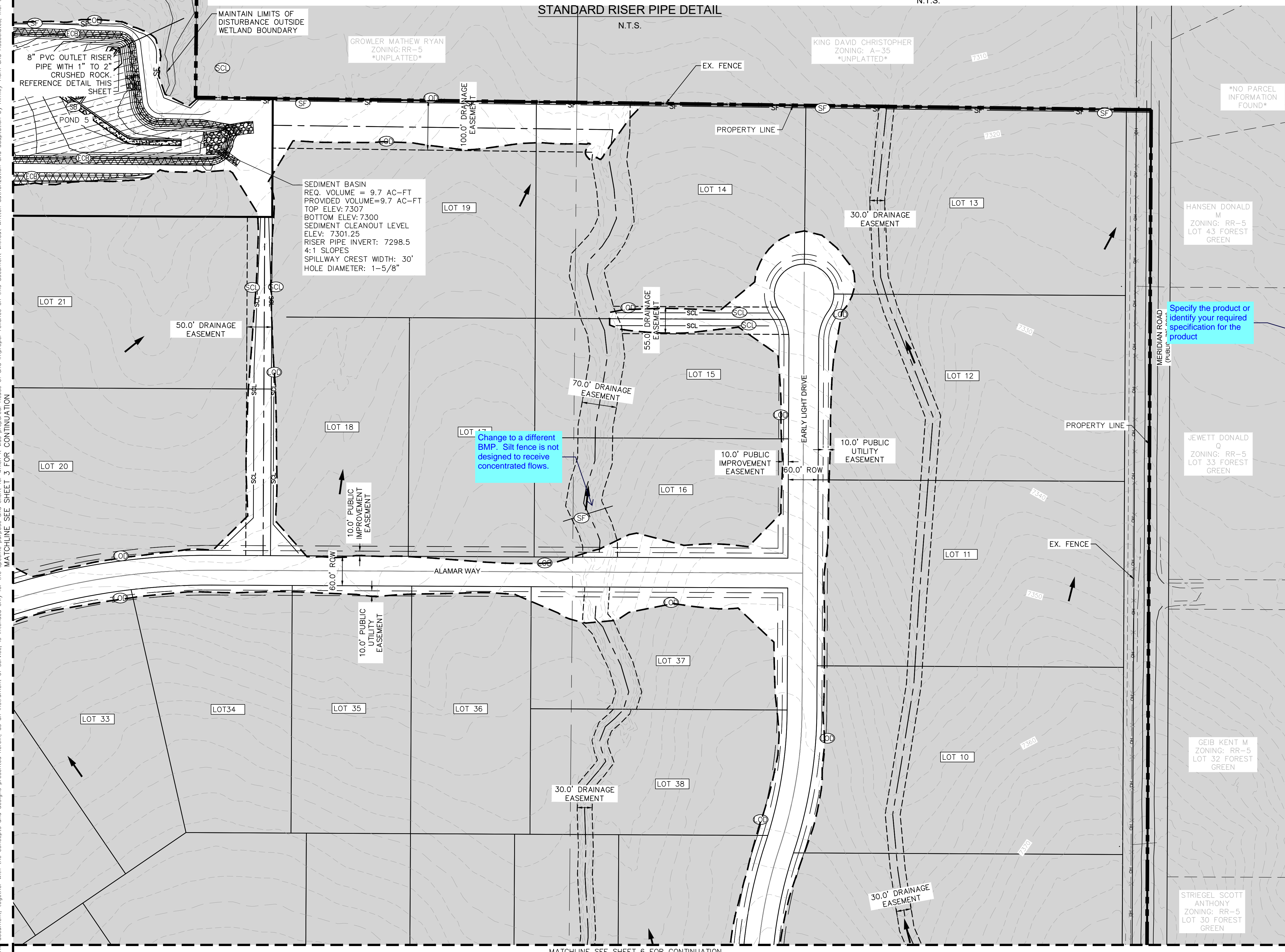
**LEGEND**

- — — — — PROPERTY LINE
- - - - - 100 YEAR FLOODPLAIN
- — — — — WETLAND BOUNDARY
- - - - - L.O.D. LIMITS OF DISTURBANCE
- SF — — — — — SF SILT FENCE
- CF — — — — — CF CONSTRUCTION FENCE
- SCL — — — — — SCL SEDIMENT CONTROL LOGS
- IP — — — — — IP CULVERT INLET/OUTLET PROTECTION
- CWA — — — — — CWA CONCRETE WASHOUT AREA
- SSA — — — — — SSA STABILIZED STAGING AREA
- ECB — — — — — ECB EROSION CONTROL BLANKET
- VTG — — — — — VTG VEHICLE TRACKING CONTROL
- SP — — — — — SP SOIL STOCKPILE
- SB — — — — — SB TEMPORARY SEDIMENT BASIN
- SM — — — — — SM SEEDING AND MULCHING
- — — — — — EXISTING FLOW ARROW
- - - - - 64XX — — — — — EXISTING MAJOR CONTOUR
- - - - - 64XX — — — — — EXISTING MINOR CONTOUR
- — — — — 5430 — — — — — PROPOSED MAJOR CONTOUR
- — — — — 5431 — — — — — PROPOSED MINOR CONTOUR

**LIMITS OF CONSTRUCTION**

ONSITE DISTURBANCE	= ±32.18 ACRES
OFFSITE DISTURBANCE	= ±0.55 ACRES
<b>TOTAL</b>	<b>= ±32.73 ACRES</b>

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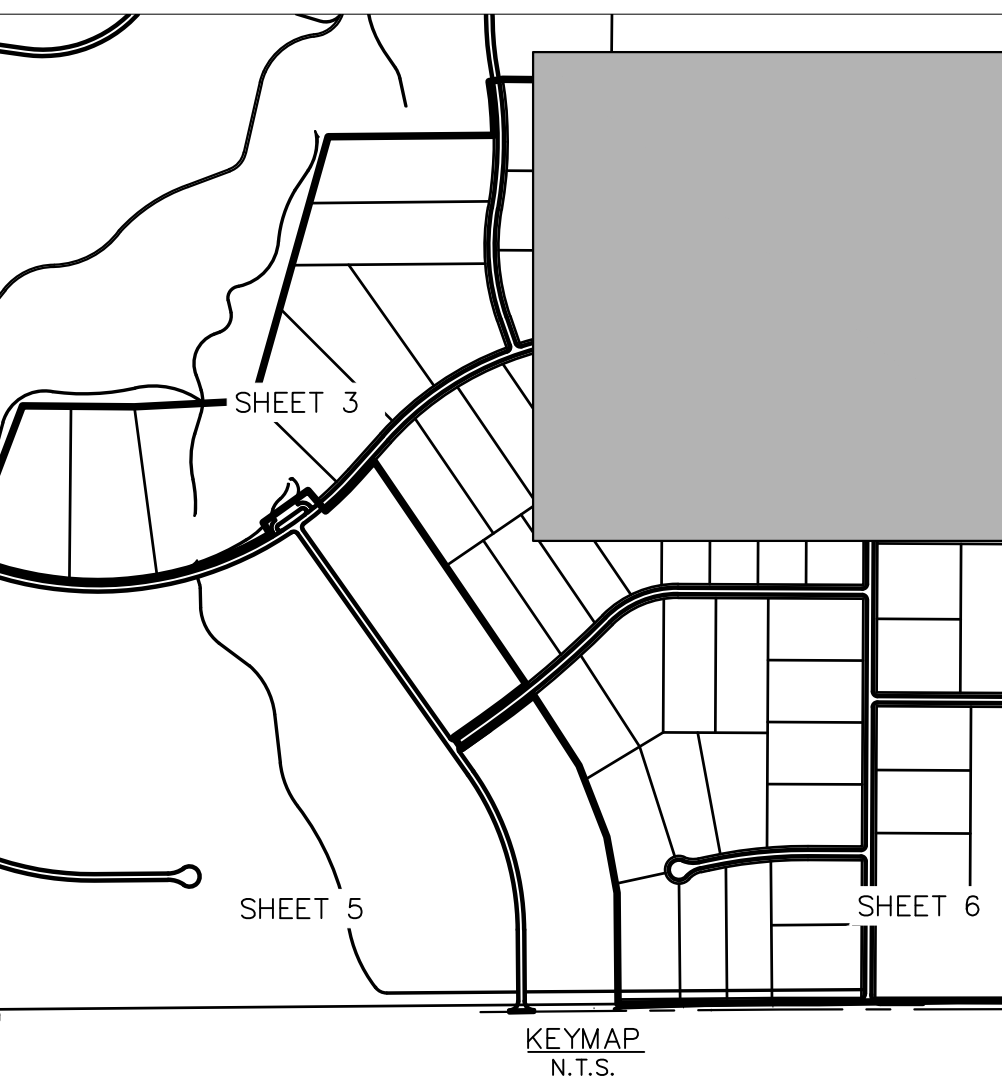


Specify the product or identify your required specification for the product

update sheet reference

add a note about existing vegetation and percent cover.

Add a note stating there will be no asphalt/concrete batch plants



**Kimley»Horn**

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 PHONE: 719-453-0180  
 WWW.KIMLEY-HORN.COM

**INITIAL GEC PLAN**

**WINSOME FILING NO. 2**  
 PREPARED FOR  
**WINSOME LLC**

EL PASO COUNTY

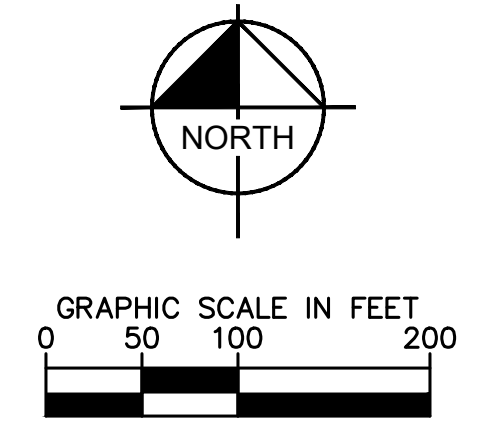
SHEET NUMBER  
**4**

NO.	REVISIONS	DATE

KHA PROJECT 019610600  
 DATE 01/08/2021  
 SCALE AS SHOWN  
 DESIGNED BY KHTAM  
 DRAWN BY KHTAM  
 CHECKED BY TLC DATE:

LICENSED PROFESSIONAL KEVIN KOFFORD  
 CO LICENSE NUMBER 57234

Plotted By: Kofford, Kevin. Sheet: WINSOME P2. Layout: ON-SITE ROADWAY SWMP. (3). February, 18, 2021. 11:21:42am. K:\DEN\_Civil\196106000-Winsome P2\CADD\PlanSheets\0196106000-EC\_INITIAL.dwg  
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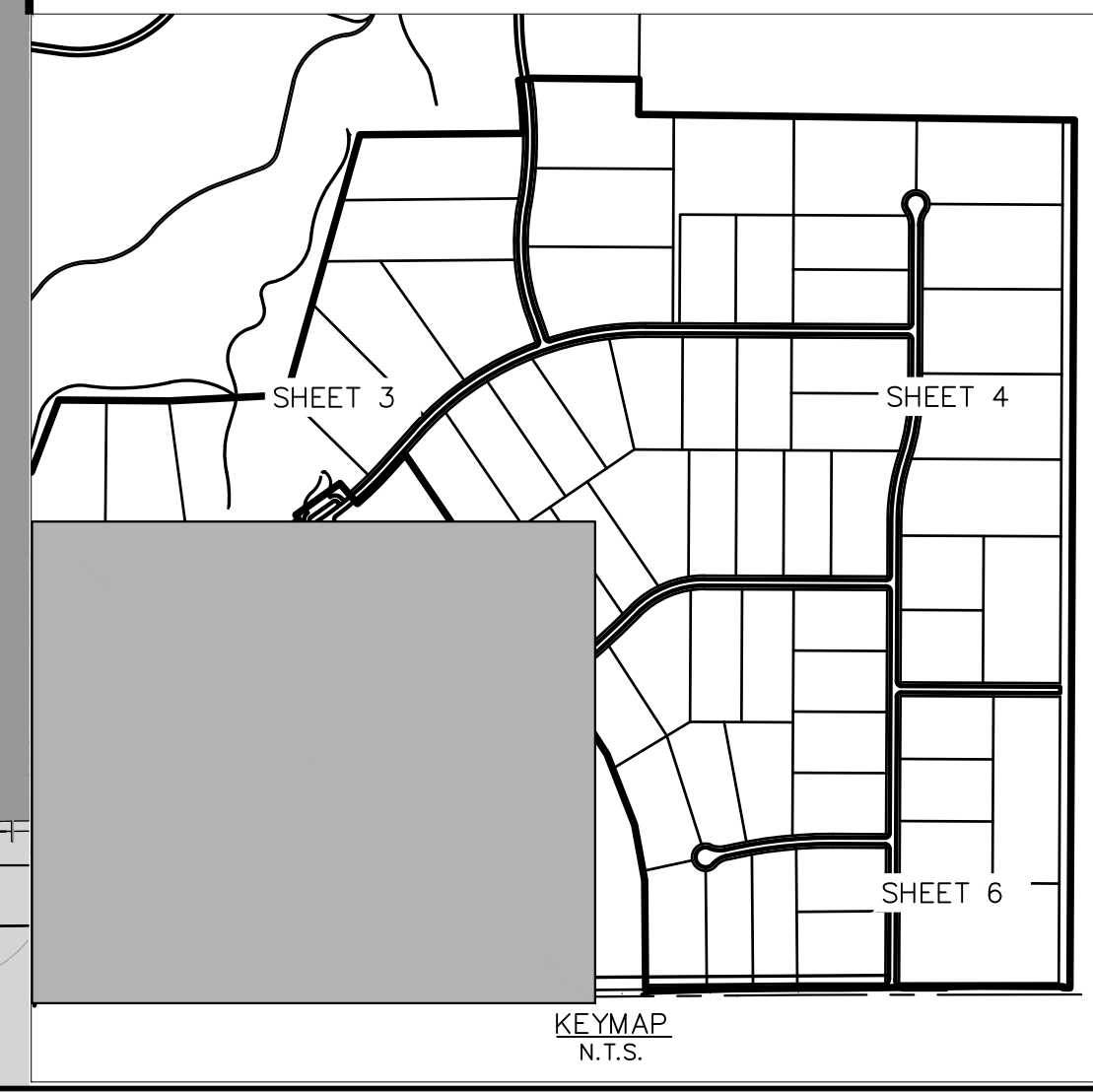
MATCHLINE SEE SHEET 3 FOR CONTINUATION



LEGEND	
	PROPERTY LINE
	100 YEAR FLOODPLAIN
	WETLAND BOUNDARY
	LOD LIMITS OF DISTURBANCE
	SF SILT FENCE
	CF CONSTRUCTION FENCE
	SCL SEDIMENT CONTROL LOGS
	IP CULVERT INLET/OUTLET PROTECTION
	CWA CONCRETE WASHOUT AREA
	SSA STABILIZED STAGING AREA
	ECB EROSION CONTROL BLANKET
	VTC VEHICLE TRACKING CONTROL
	SP SOIL STOCKPILE
	SB TEMPORARY SEDIMENT BASIN
	SM SEEDING AND MULCHING
	EXISTING FLOW ARROW
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	5430 PROPOSED MAJOR CONTOUR
	5431 PROPOSED MINOR CONTOUR

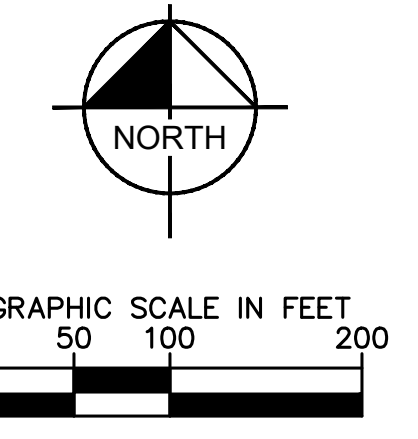
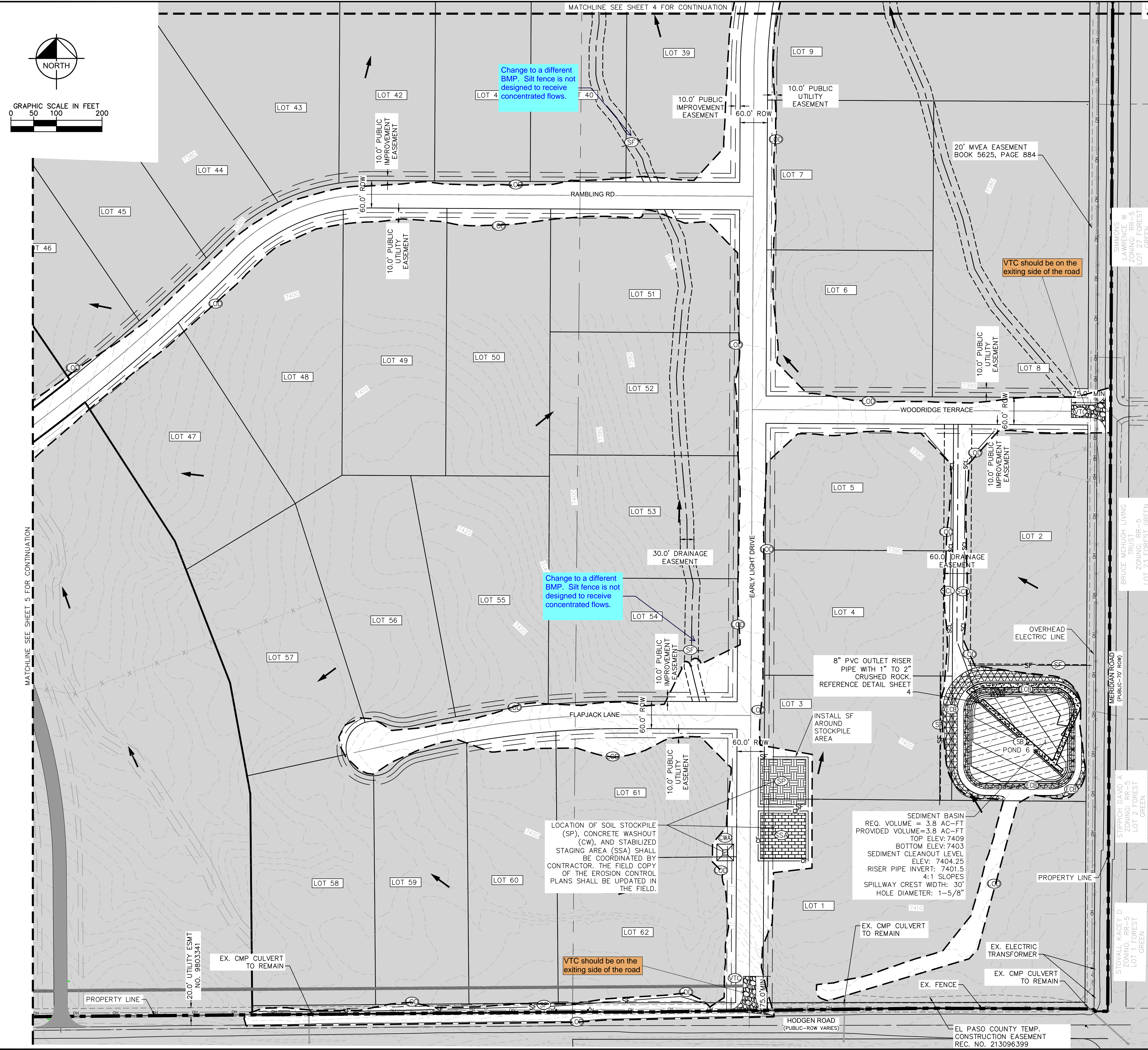
LIMITS OF CONSTRUCTION	
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LICENSED PROFESSIONAL KEVIN KOFFORD CO LICENSE NUMBER 57234		KHA PROJECT 019610600	DATE 01/08/2021
<b>INITIAL GEC PLAN</b>		SCALE AS SHOWN DESIGNED BY KHTAM DRAWN BY KHTAM	CHECKED BY TLC DATE:
<b>WINSOME FILING NO. 2</b> PREPARED FOR <b>WINSOME LLC</b>		EL PASO COUNTY CO	
SHEET NUMBER <b>5</b>		REVISIONS No. _____ BY _____ DATE _____	

Plotted By: Kofford, Kevin. Sheet: SWSOME P2. Layout: ON-SITE ROADWAY SWMP. (4). February 18, 2021. 11:21:46am. K:\DEN\_Civil\196106000-Winsome P2\CADD\PlanSheets\0196106000-EC\_INITIAL.dwg  
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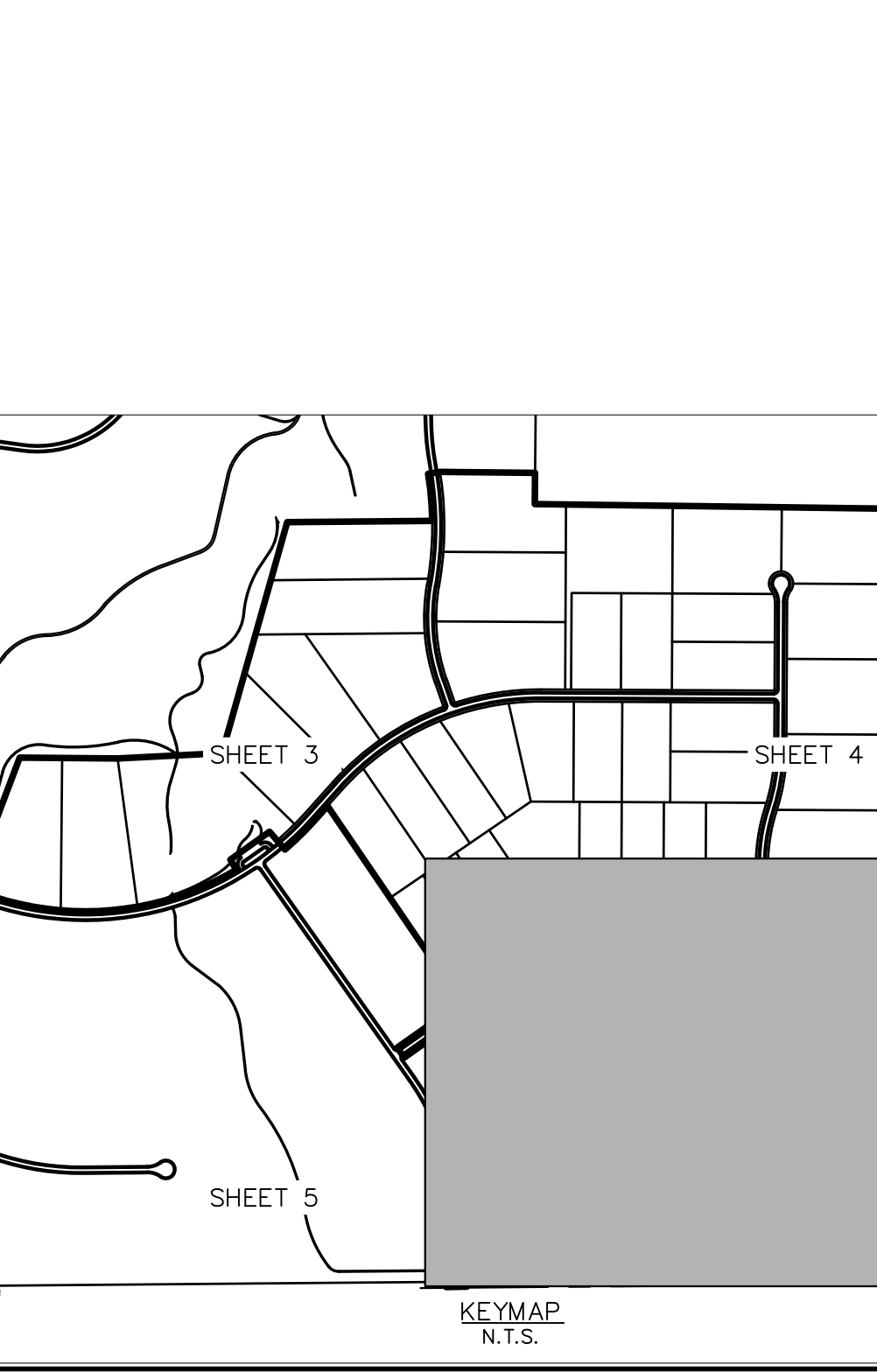
**LEGEND**

	PROPERTY LINE
	100 YEAR FLOODPLAIN
	WETLAND BOUNDARY
	LOD LIMITS OF DISTURBANCE
	SF SILT FENCE
	CF CONSTRUCTION FENCE
	SCL SEDIMENT CONTROL LOGS
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	EXISTING FLOW ARROW
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	5430 PROPOSED MAJOR CONTOUR
	5431 PROPOSED MINOR CONTOUR

**LIMITS OF CONSTRUCTION**

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 WWW.KIMLEY-HORN.COM

LICENSED PROFESSIONAL  
 KEVIN KOFFORD  
 CO LICENSE NUMBER 57234

KHA PROJECT 019610600  
 DATE 01/08/2021  
 SCALE AS SHOWN  
 DESIGNED BY KHTAM  
 DRAWN BY KHTAM  
 CHECKED BY TLC DATE: \_\_\_\_\_

**INITIAL GEC PLAN**

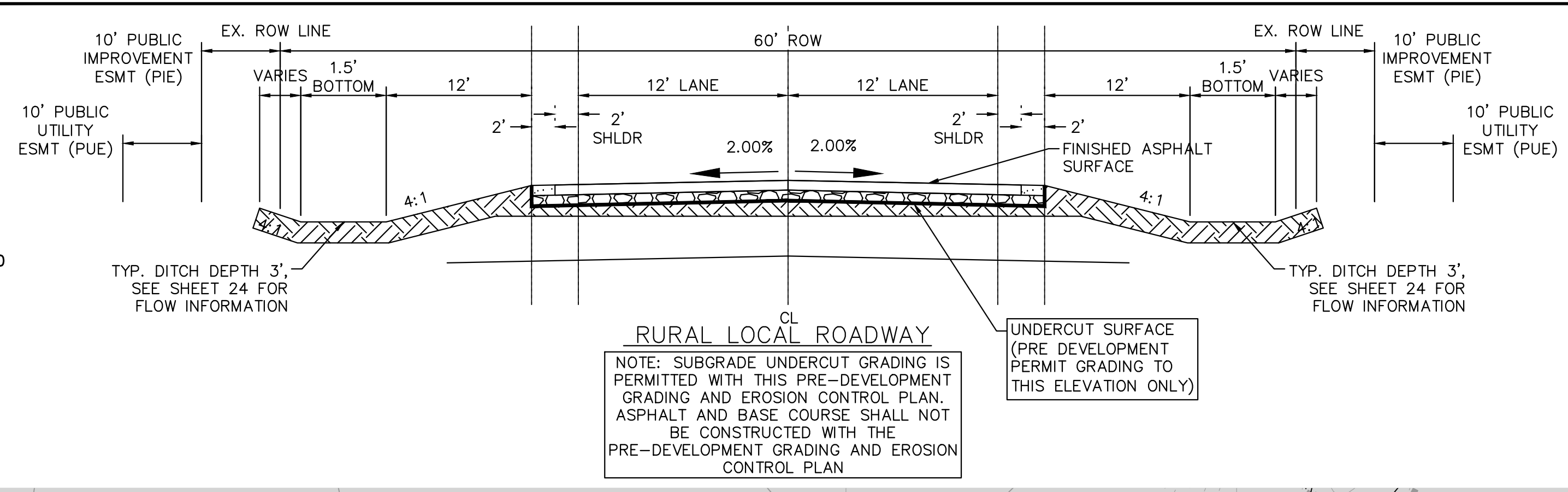
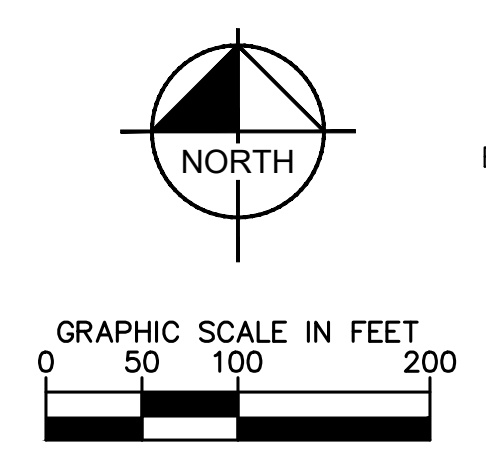
WINSOME FILING NO. 2  
 PREPARED FOR  
 WINSOME LLC

EL PASO COUNTY

SHEET NUMBER  
**6**

NO.	REVISIONS	DATE

Plotted By: Koford, Kevin. Sheet: S:\WINSONE P2 - Layout\ON-SITE INTERIM-FINAL SWMP (1) - February 18, 2021 11:22:28am. K:\DEN-CIV\196106000 - Winsome P2\CADD\PlanSheets\0196106000-EC-INTERIM.dwg  
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LEGEND	
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	100 YEAR FLOODPLAIN
	WETLAND BOUNDARY
	LIMITS OF DISTURBANCE
	SILT FENCE
	CONSTRUCTION FENCE
	SEDIMENT CONTROL LOGS
	CULVERT INLET/OUTLET PROTECTION
	CONCRETE WASHOUT AREA
	STABILIZED STAGING AREA
	EROSION CONTROL BLANKET
	VEHICLE TRACKING CONTROL
	SOIL STOCKPILE
	TEMPORARY SEDIMENT BASIN
	EXISTING FLOW ARROW
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR

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- Be aware these culverts are installed at your own risk with the early grading. The preliminary drainage report does not include hydraulic analysis of these culverts. Culvert design is approved with the Filing 2 Final Drainage Report and Construction Drawing review. Adjustments may be required in the future, depends on the FDR/CD review.

Staff recommends the design engineer reviewing the ECM and DCM to ensure culvert design meets all criteria.

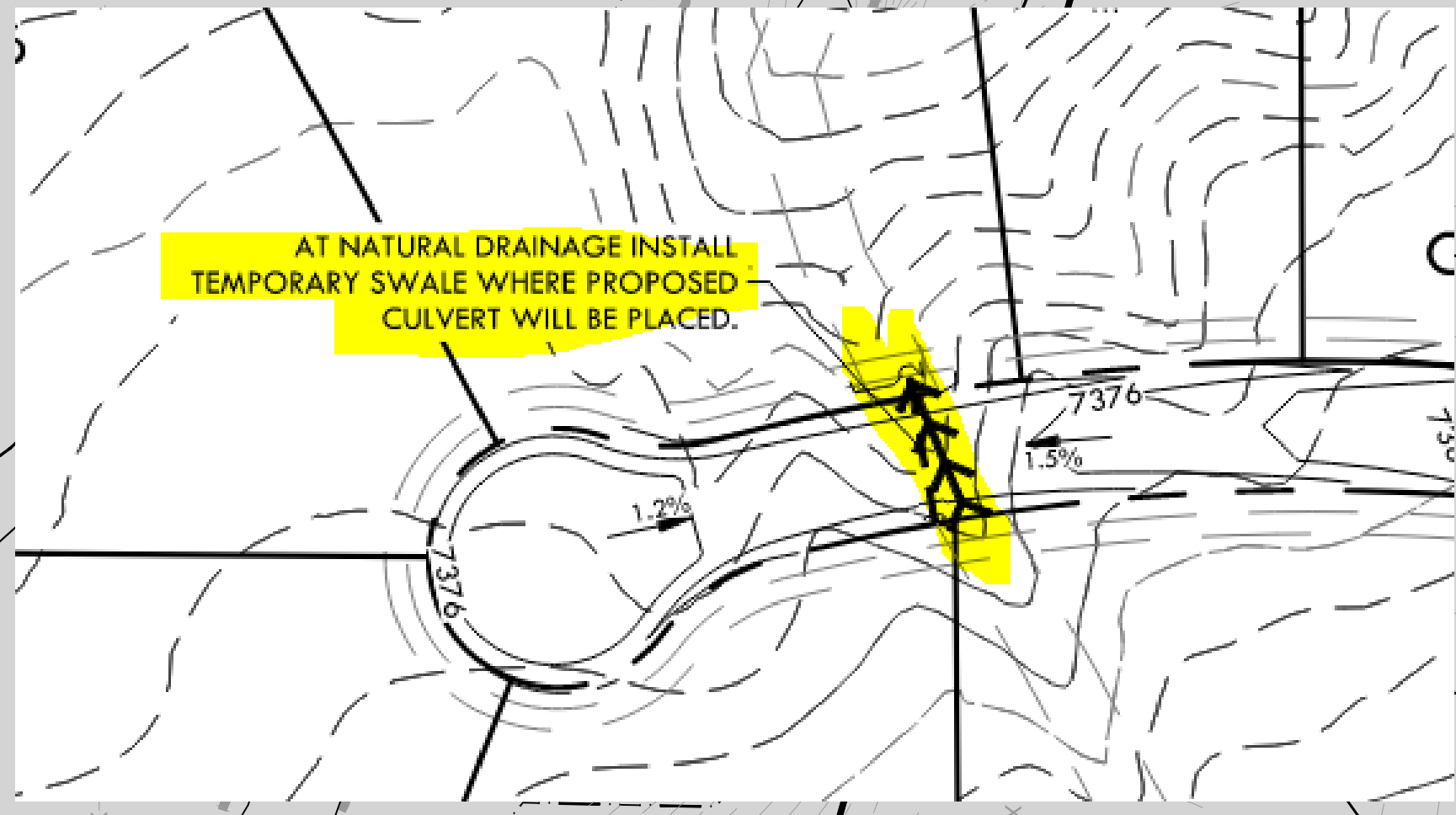
- ECM Chapter 3 Section 3.3.2 (such as min/max velocity, watertight joints, pipe class)
- ECM Chapter 4 section 4.3.6 for minimum cover.
- Separation between the three culverts
- DCM Chapter 6 Table 6-1 regarding street overtopping
- DCM Chapter 6 Table 6-4 and Table 6-5 for allowable culvert overtopping and allowable Hw/D.
- CDOT M&S Detail M-601-10, M-601-11 & M601-12. for minimum pipe separations and end treatments.

Alternative is similar to the Filing 1 early grading which left a temporary swale (texas crossing?) at these culvert locations.

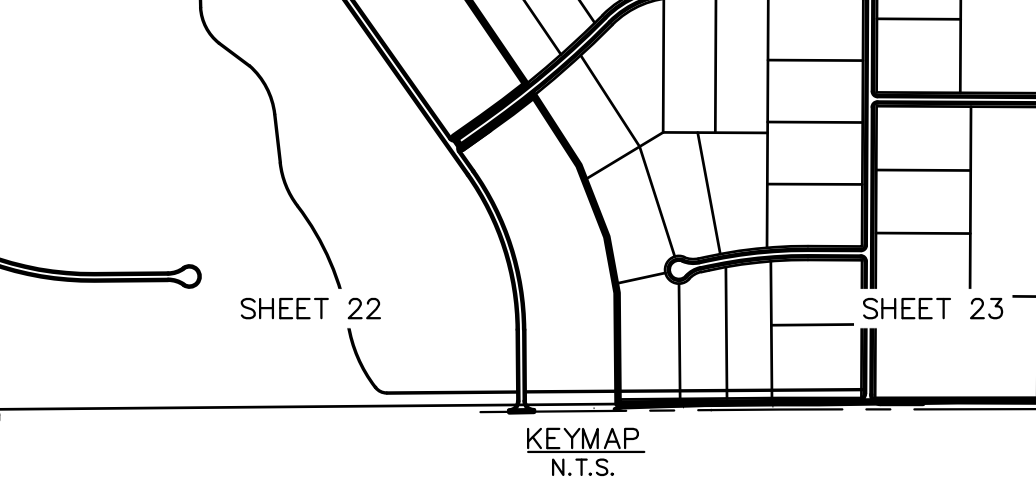
Comment applies to all proposed culverts shown on this pre-development GEC.

Update the Financial Assurance Estimate (FAE) accordingly if it's being removed. (ie. remove the inlet protection quantity)

If the applicant chooses to install the culverts at their own risk, then update the FAE to include the pipes and end treatments.



Reference sheet is missing. Include the end treatment details. See CDOT M&S Details M-601-10 through 12



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LICENSED PROFESSIONAL  
 KIMLEY-HORN  
 KEVIN KOFFORD  
 CO LICENSE NUMBER  
 57234

PROJECT NO.  
 019610600

DATE  
 01/08/2021

SCALE  
 AS SHOWN

DESIGNED BY  
 KHTAM

DRAWN BY  
 KHTAM

CHECKED BY  
 TLC

TLC DATE

**INTERIM GEC PLAN**

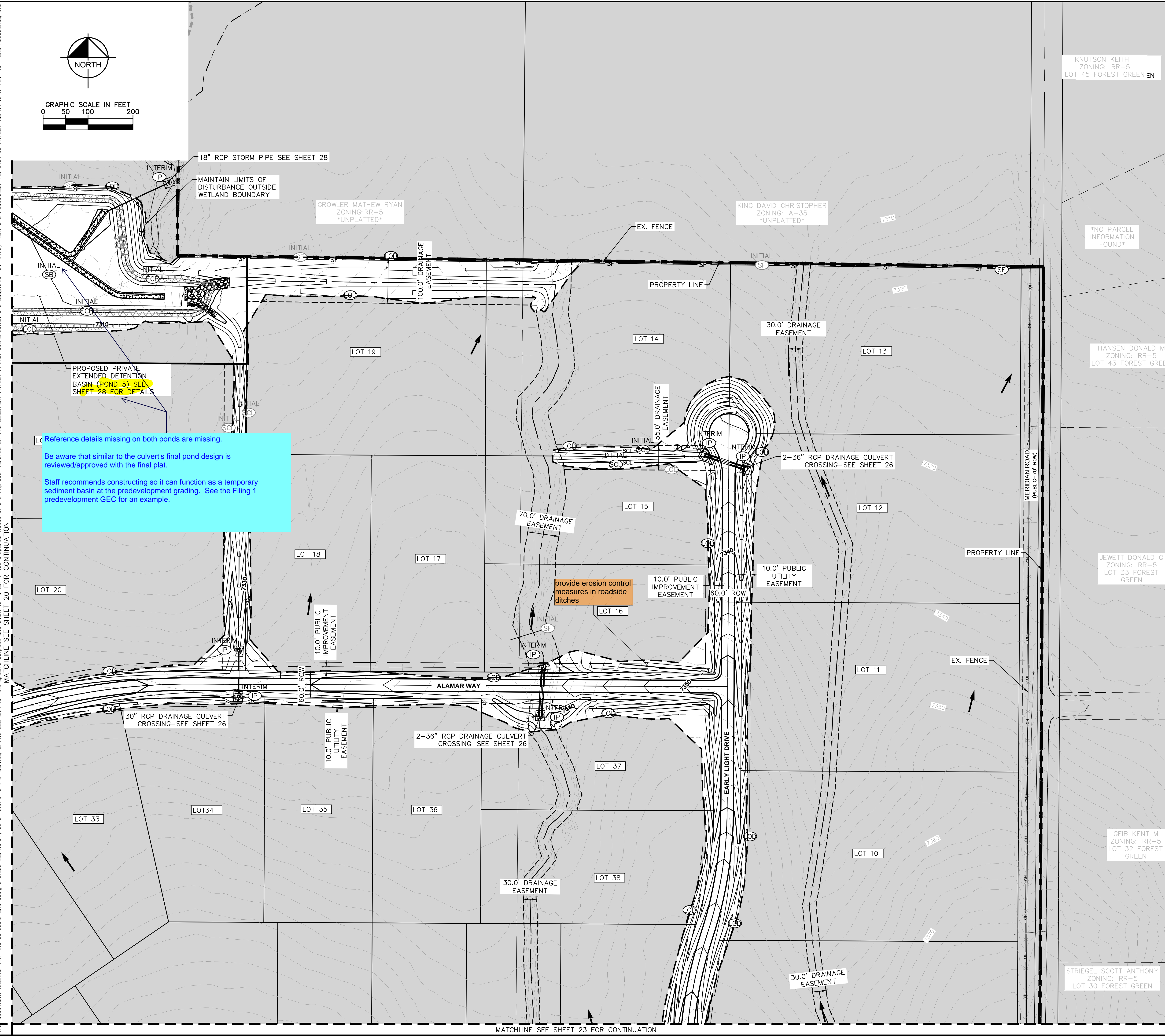
**WINSOME FILING NO. 2**  
 PREPARED FOR  
**WINSOME LLC**

EL PASO COUNTY

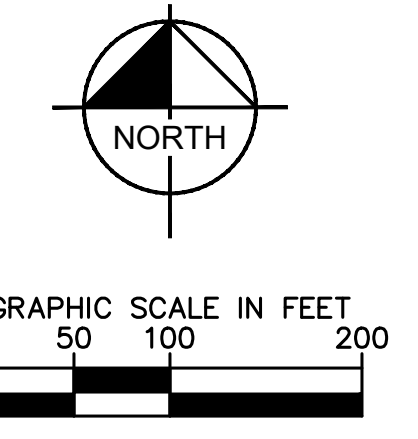
SHEET NUMBER  
**7**

DATE

Plotted By: Kofford, Kevin. Sheet: WINSOME P2. Layout: ON-SITE INTERIM-FINAL SWMP (2). February 18, 2021. 11:22:38am. K:\DEN\_Civil\196106000 - Winsome P2\CARD\_PlanSheets\0196106000-EC-INTERIM.dwg  
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Reference details missing on both ponds are missing.  
 Be aware that similar to the culvert's final pond design is reviewed/approved with the final plat.  
 Staff recommends constructing so it can function as a temporary sediment basin at the predevelopment grading. See the Filing 1 predevelopment GEC for an example.



### LEGEND

- PROPERTY LINE
- 100 YEAR FLOODPLAIN
- WETLAND BOUNDARY
- LIMITS OF DISTURBANCE
- SF SILT FENCE
- CF CONSTRUCTION FENCE
- SCL SEDIMENT CONTROL LOGS
- IP CULVERT INLET/OUTLET PROTECTION
- CWA CONCRETE WASHOUT AREA
- SSA STABILIZED STAGING AREA
- ECB EROSION CONTROL BLANKET
- VTC VEHICLE TRACKING CONTROL
- SP SOIL STOCKPILE
- SB TEMPORARY SEDIMENT BASIN

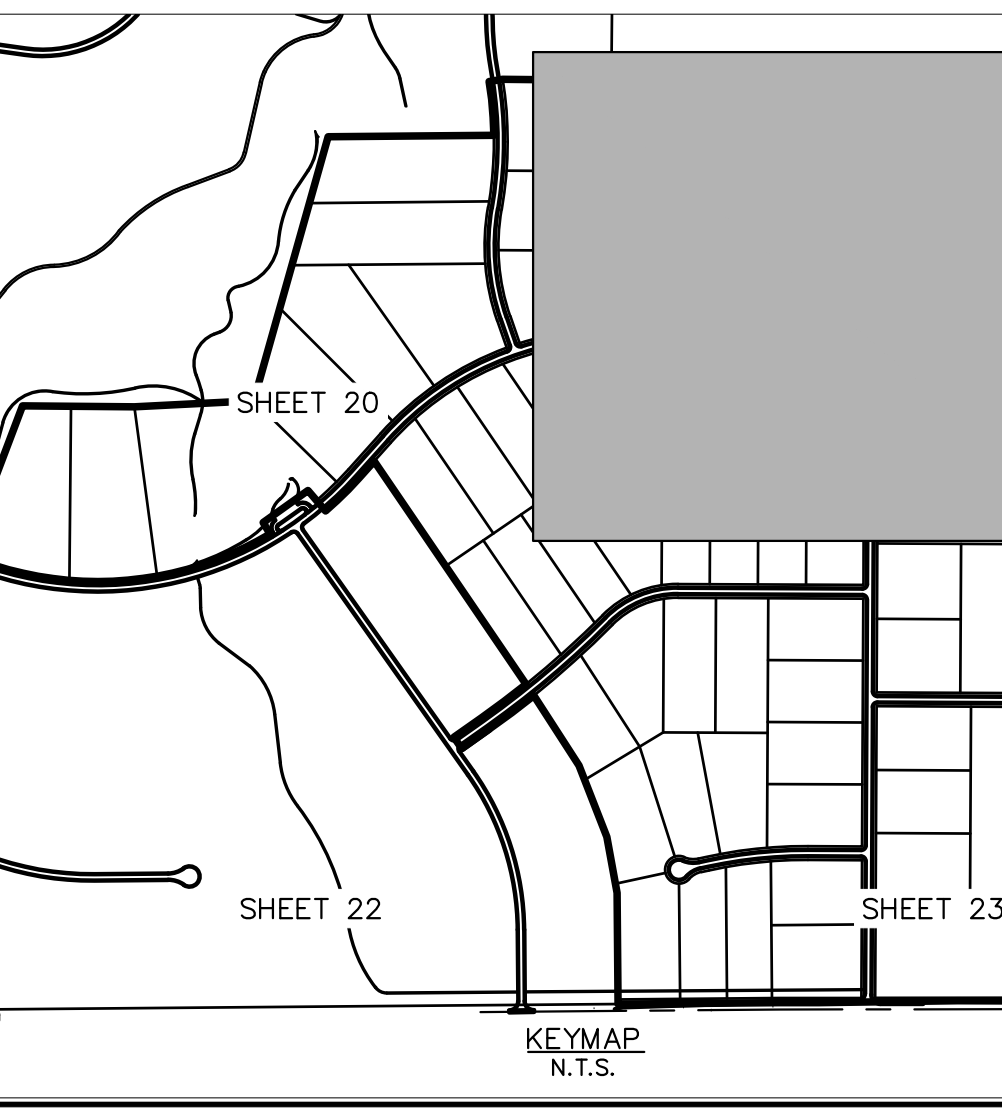
  

- EXISTING FLOW ARROW
- 64XX EXISTING MINOR CONTOUR
- 64XX EXISTING MAJOR CONTOUR
- 5430 PROPOSED MAJOR CONTOUR
- 5431 PROPOSED MINOR CONTOUR

### LIMITS OF CONSTRUCTION

ONSITE DISTURBANCE	= ±32.18 ACRES
OFFSITE DISTURBANCE	= ±0.55 ACRES
<b>TOTAL</b>	<b>= ±32.73 ACRES</b>

- ### NOTES
- THE INTENT OF THIS PLAN IS TO IDENTIFY THE EROSION CONTROL PRACTICES RECOMMENDED. THE CONTRACTOR SHALL REFERENCE ADDITIONAL CONSTRUCTION PLANS FOR DEMOLITION OF EXISTING AND CONSTRUCTION OF PROPOSED IMPROVEMENTS.
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  - REFERENCE SHEETS 04 - 07 FOR PERMANENT GRADING OF PERMANENT DITCHES



NO.	REVISIONS	DATE

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LICENSED PROFESSIONAL	KEVIN KOFFORD
KHA PROJECT	019610600
DATE	01/08/2021
SCALE	AS SHOWN
DESIGNED BY	KHTAM
DRAWN BY	KHTAM
CHECKED BY	TLC DATE:
CO LICENSE NUMBER	57234

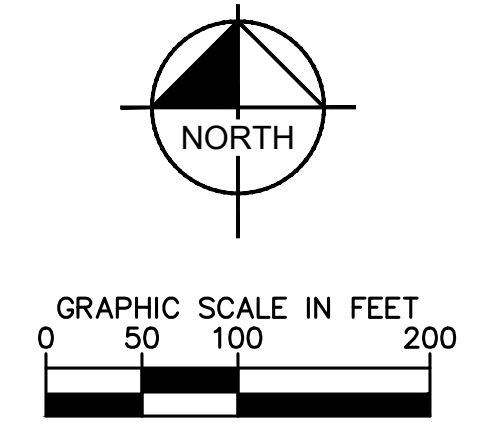
## INTERIM GEC PLAN

**WINSOME FILING NO. 2**  
 PREPARED FOR  
**WINSOME LLC**  
 EL PASO COUNTY

SHEET NUMBER  
**8**



Plotted By: Kofford, Kevin. Sheet: Sct: WINSOME P2. Layout: ON-SITE INTERIM-FINAL SWMP (3). February 18, 2021. 11:22:41am. K:\DEN-CIVIL\196106000-Winsome P2\CADD\PlanSheets\0196106000-EC-INTERIM.dwg  
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MATCHLINE SEE SHEET 20 FOR CONTINUATION

FILING NO. 2 BOUNDARY

APPROXIMATE LIMITS OF WETLAND AREA

WINSOME FILING NO.1  
(NOT A PART OF THIS PROJECT)

FILING NO. 2 BOUNDARY

LOT 46

LEGEND	
	PROPERTY LINE
	100 YEAR FLOODPLAIN
	WETLAND BOUNDARY
	OD LIMITS OF DISTURBANCE
	SF SILT FENCE
	CF CONSTRUCTION FENCE
	SCL SEDIMENT CONTROL LOGS
	IP CULVERT INLET/OUTLET PROTECTION
	CWA CONCRETE WASHOUT AREA
	SSA STABILIZED STAGING AREA
	ECB EROSION CONTROL BLANKET
	VTC VEHICLE TRACKING CONTROL
	SP SOIL STOCKPILE
	SB TEMPORARY SEDIMENT BASIN

	EXISTING FLOW ARROW
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR

**LIMITS OF CONSTRUCTION**

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<b>TOTAL</b>	<b>= ±32.73 ACRES</b>

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- REFERENCE SHEETS Q4 - 07 FOR PERMANENT GRADING OF PERMANENT DITCHES

MATCHLINE SEE SHEET 23 FOR CONTINUATION

MATCHLINE SEE SHEET 20 FOR CONTINUATION



KEYMAP  
N.T.S.

NO.	REVISIONS	DATE	BY

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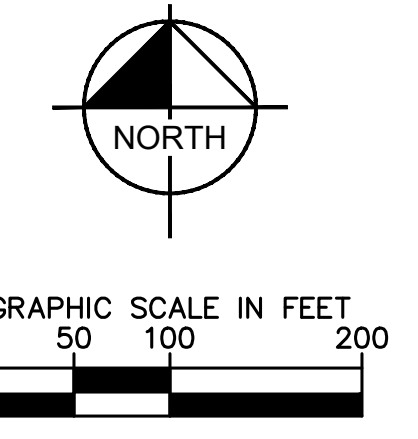
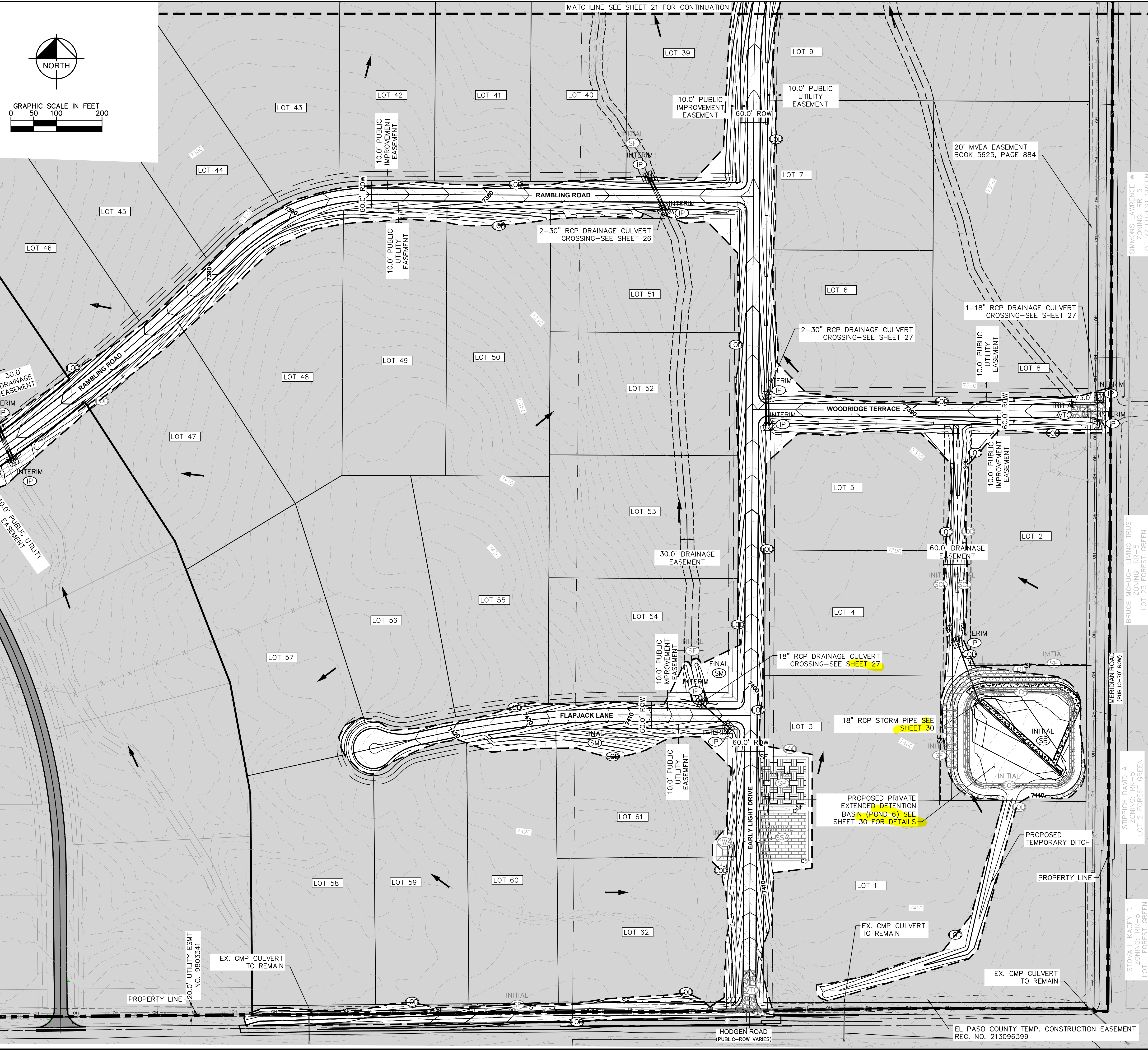
KHA PROJECT	019610600
LICENSED PROFESSIONAL	KEVIN KOFFORD
DATE	01/08/2021
SCALE	AS SHOWN
DESIGNED BY	KHTAM
DRAWN BY	KHTAM
CHECKED BY	TLC
CO LICENSE NUMBER	57234

**INTERIM GEC PLAN**

**WINSOME FILING NO. 2**  
 PREPARED FOR  
**WINSOME LLC**  
 EL PASO COUNTY, CO

SHEET NUMBER  
**9**

Plotted By: Kofford, Kevin. Sheet: SWSOME P2. Layout: ON-SITE INTERIM-FINAL SWMP (4). February 18, 2021. 11:22:51am. K:\DEN-CAD\196106000-Winsome P2\CADD\PlanSheets\196106000-EC-INTERIM.dwg  
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LEGEND	
	PROPERTY LINE
	100 YEAR FLOODPLAIN
	WETLAND BOUNDARY
	LIMITS OF DISTURBANCE
	SILT FENCE
	CONSTRUCTION FENCE
	SEDIMENT CONTROL LOGS
	CULVERT INLET/OUTLET PROTECTION
	CONCRETE WASHOUT AREA
	STABILIZED STAGING AREA
	EROSION CONTROL BLANKET
	VEHICLE TRACKING CONTROL
	SOIL STOCKPILE
	TEMPORARY SEDIMENT BASIN
show areas of temporary/permanent seeding	
	EXISTING FLOW ARROW
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR

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BY: \_\_\_\_\_ DATE: \_\_\_\_\_

REVISIONS: \_\_\_\_\_

No. \_\_\_\_\_

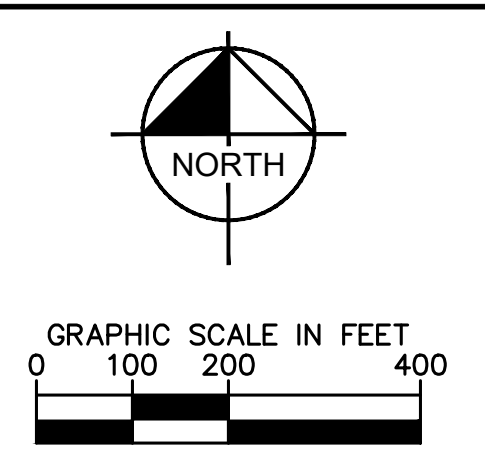
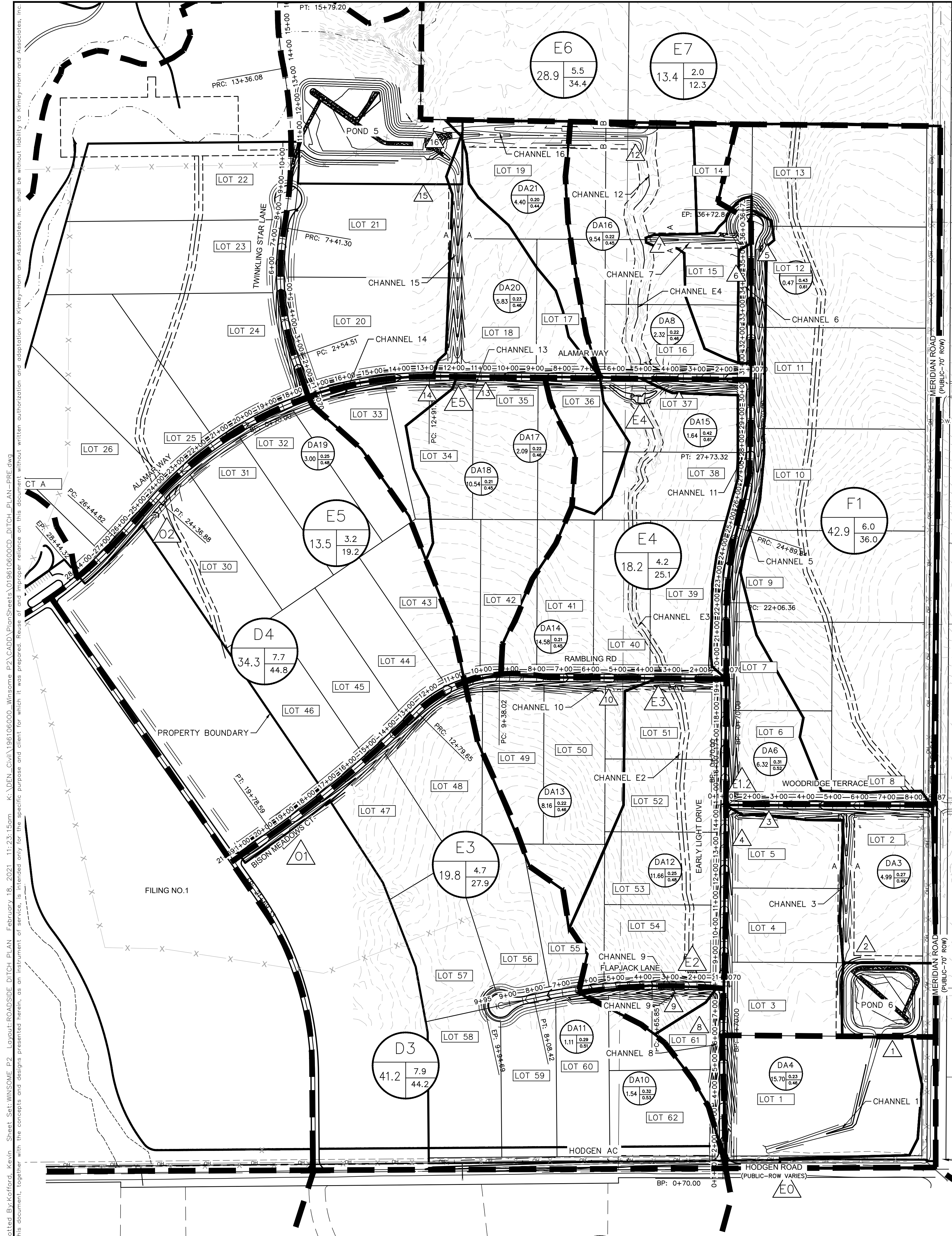
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**INTERIM GEC PLAN**

**WINSOME FILING NO. 2**  
 PREPARED FOR  
**WINSOME LLC**

EL PASO COUNTY

SHEET NUMBER  
**10**



- LEGEND**
- DRAINAGE BASIN AREAS
  - DRAINAGE SUB-BASIN AREAS
  - A - DRAINAGE BASIN
    - B - BASIN ACREAGE
    - C - 5-YR RUNOFF
    - D - 100-YR RUNOFF
  - A - DRAINAGE BASIN
    - B - BASIN ACREAGE
    - C - 5-YR RUNOFF COEFF
    - D - 100-YR RUNOFF COEFF
  - CULVERT DESIGN POINT
  - CHANNEL DESIGN POINT

CHANNEL DETAILS TABLE

Missing.

Is this sheet necessary at the early grading stage? If not, remove sheet.  
There are no additional information provided that references the stationings, design points, channel ID or sub-basin shown on this sheet.

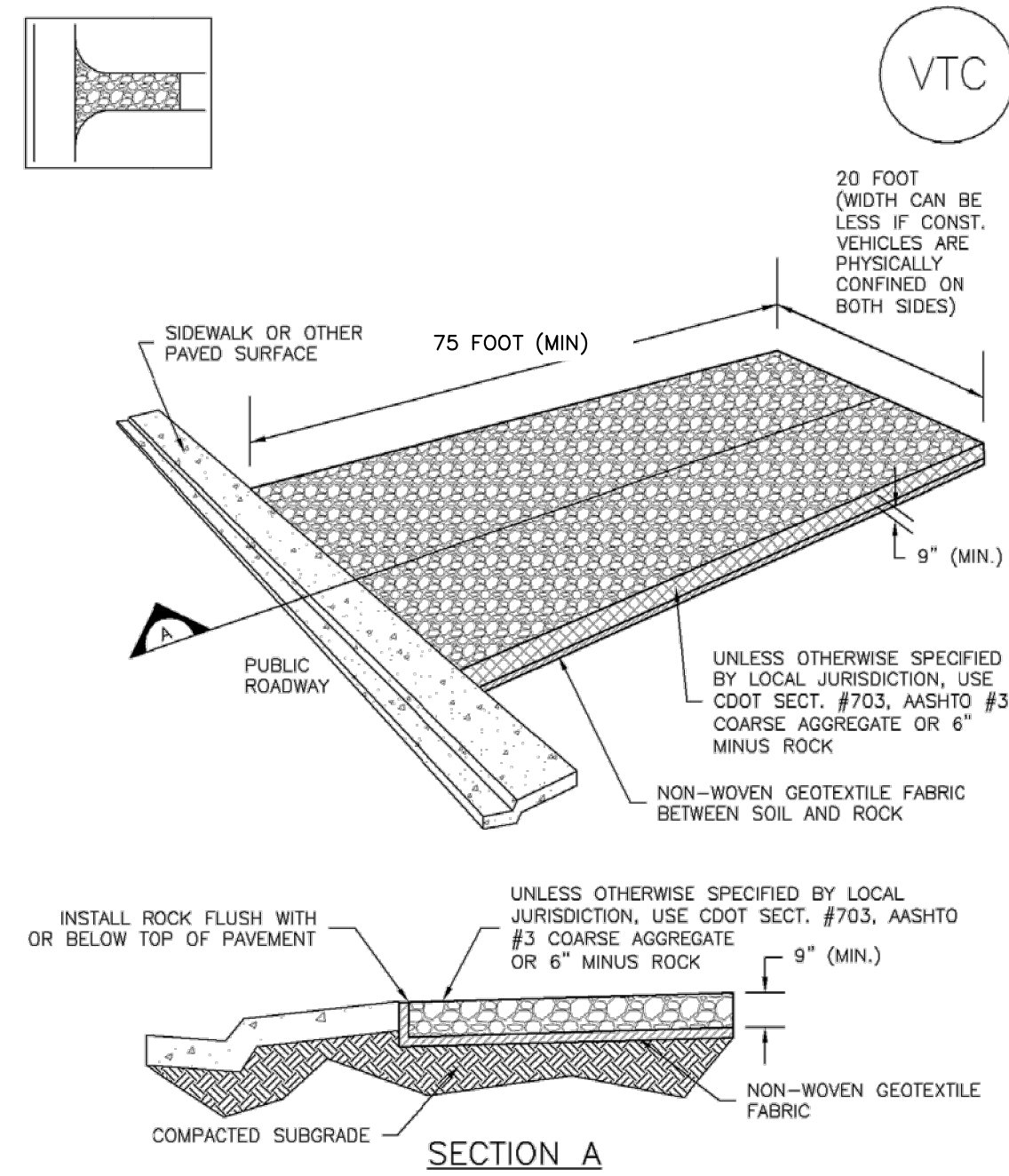
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KHA PROJECT 019610600	LICENSED PROFESSIONAL KEVIN KOFFORD			
DATE 01/08/2021	SCALE AS SHOWN	CO LICENSE NUMBER 57234		
		DRAWN BY KHTAM	CHECKED BY TLC	DATE
<b>ROADSIDE DITCH PLAN</b>				
<b>WINSOME FILING NO. 2</b>				
PREPARED FOR <b>WINSOME LLC</b>				
EL PASO COUNTY CO				
SHEET NUMBER <b>11</b>				

Plotted By: K. Cofford, Kevin, Sheet: SSM-WINSOME-F2, LAYOUT: EROSION CONTROL DETAILS, February 18, 2021, 11:23:29am, K:\DEN-Chal\196106000-Winsome-F2\CADD\PlanSheets\196106000D-EC-DT-PRE.dwg  
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**Vehicle Tracking Control (VTC)**

**SM-4**

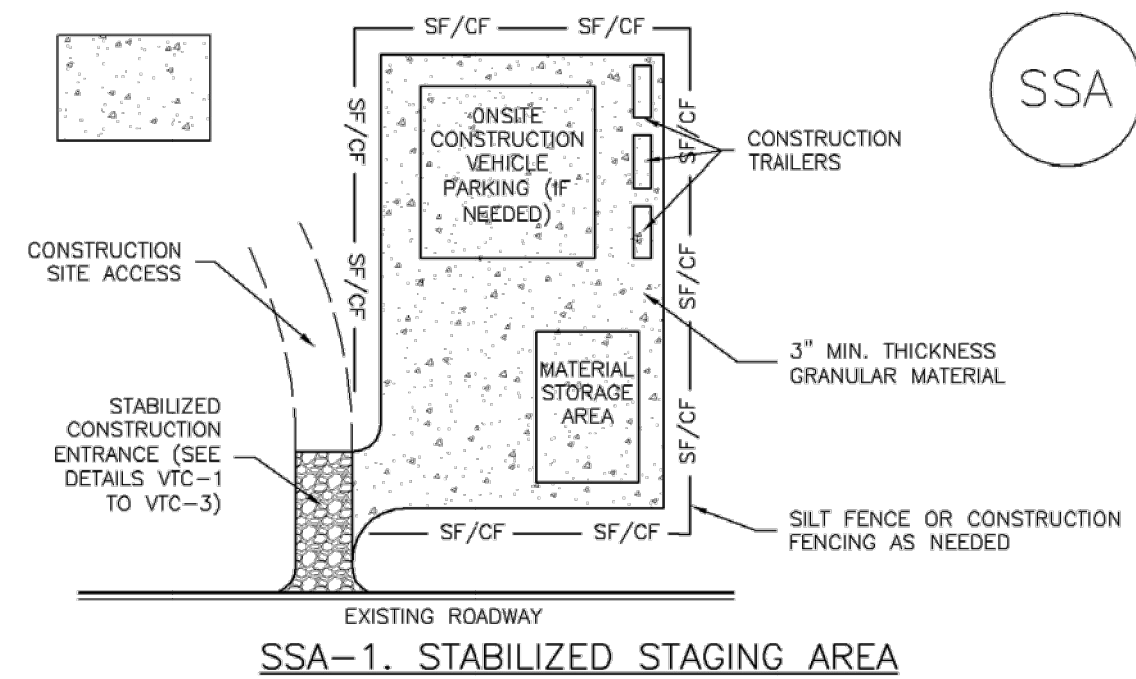


VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

November 2010 Urban Drainage and Flood Control District VTC-3  
Urban Storm Drainage Criteria Manual Volume 3

**Stabilized Staging Area (SSA)**

**SM-6**



SSA-1. STABILIZED STAGING AREA

November 2010 Urban Drainage and Flood Control District SSA-3  
Urban Storm Drainage Criteria Manual Volume 3

**SM-4 Vehicle Tracking Control (VTC)**

**STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES**

- SEE PLAN VIEW FOR  
-LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).  
-TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
- CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
- A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
- UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

**STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
- SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

VTC-6 Urban Drainage and Flood Control District VTC-6  
Urban Storm Drainage Criteria Manual Volume 3 November 2010

**SM-6 Stabilized Staging Area (SSA)**

**STABILIZED STAGING AREA MAINTENANCE NOTES**

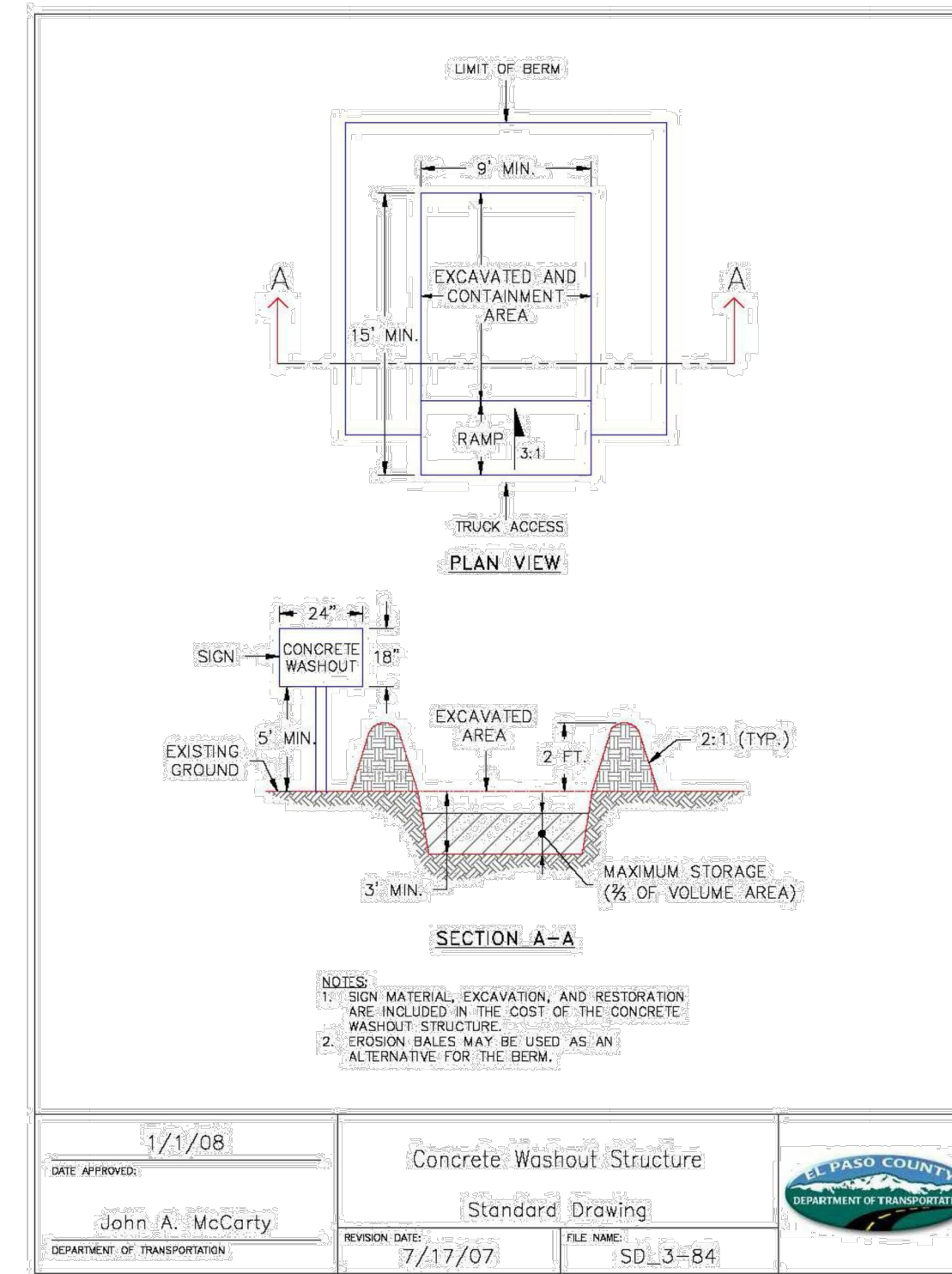
- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
- THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

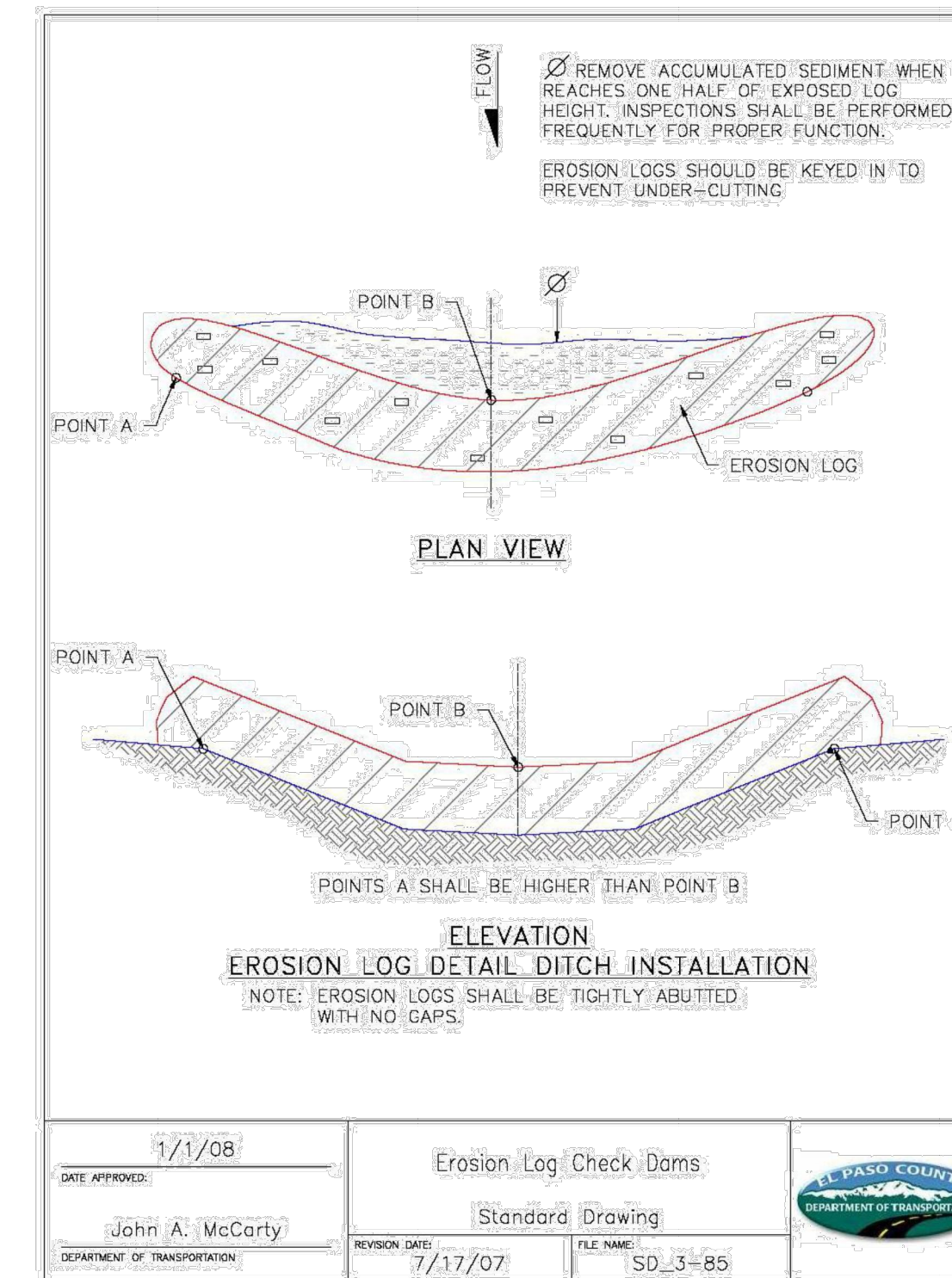
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(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

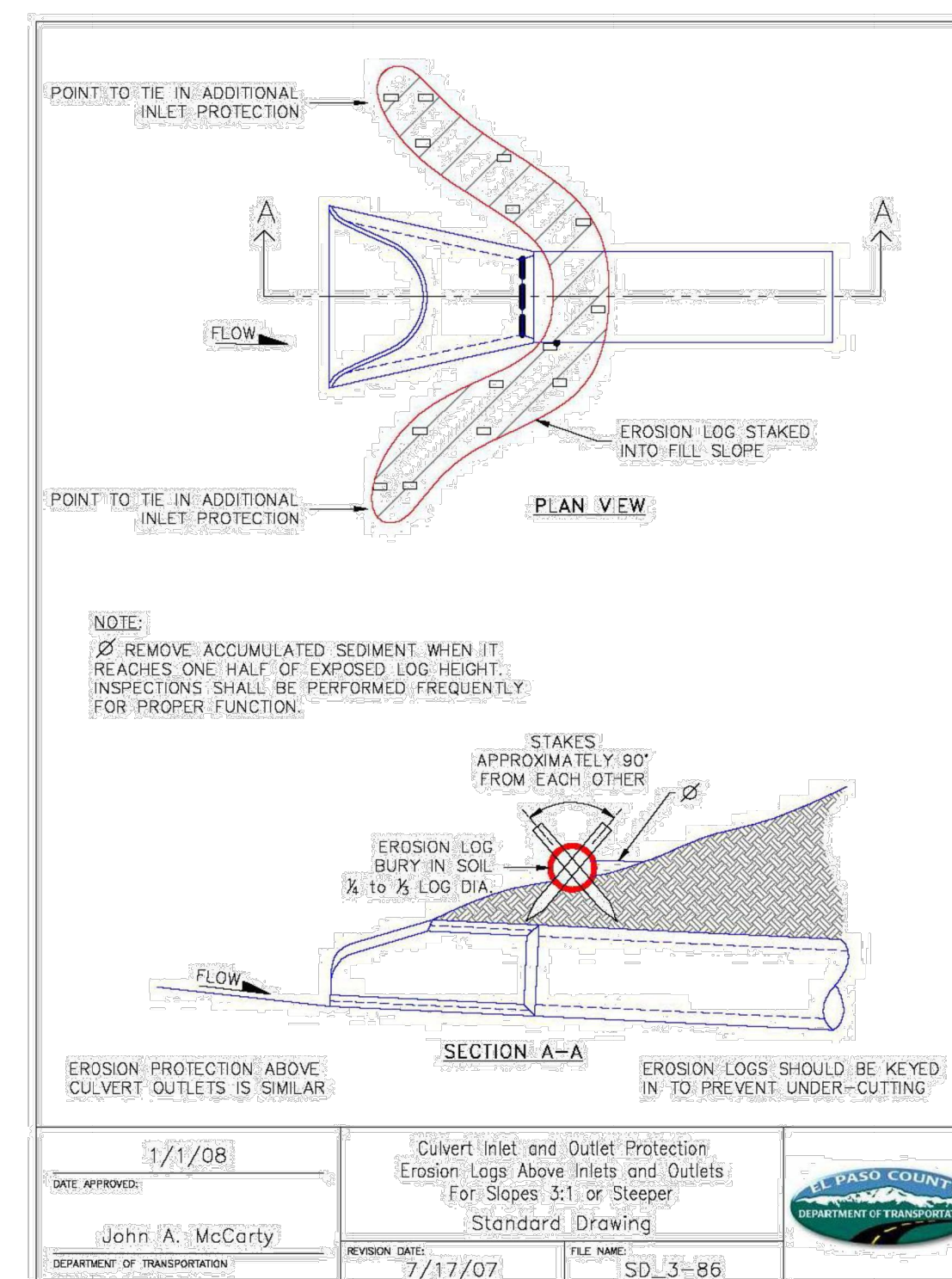
SSA-4 Urban Drainage and Flood Control District SSA-4  
Urban Storm Drainage Criteria Manual Volume 3 November 2010



DATE APPROVED: 1/1/08	CONCRETE WASHOUT STRUCTURE	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION
DESIGNED BY: John A. McCarty	STANDARD DRAWING	
DEPARTMENT OF TRANSPORTATION	REVISION DATE: 7/17/07	FILE NAME: SD_3-84



DATE APPROVED: 1/1/08	EROSION LOG CHECK DAMS	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION
DESIGNED BY: John A. McCarty	STANDARD DRAWING	
DEPARTMENT OF TRANSPORTATION	REVISION DATE: 7/17/07	FILE NAME: SD_3-85



DATE APPROVED: 1/1/08	CULVERT INLET AND OUTLET PROTECTION	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION
DESIGNED BY: John A. McCarty	EROSION LOGS ABOVE INLETS AND OUTLETS FOR SLOPES 3:1 OR STEEPER	
DEPARTMENT OF TRANSPORTATION	STANDARD DRAWING	FILE NAME: SD_3-86

NO.	REVISIONS	DATE	BY

**Kimley-Horn**  
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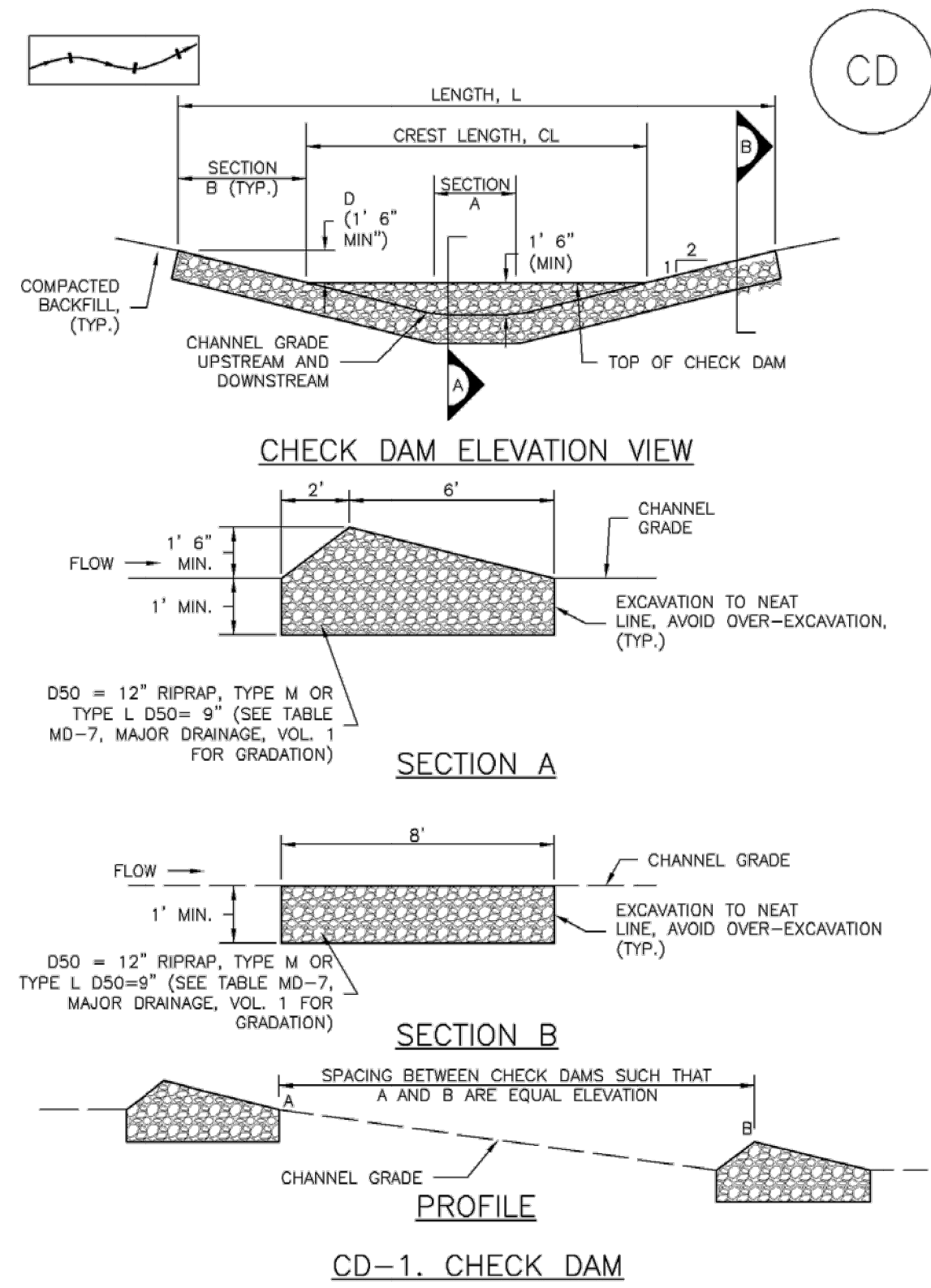
LICENSED PROFESSIONAL  
 KEVIN KOFFORD  
 CO LICENSE NUMBER 57234  
 DESIGNED BY: KHTAM  
 DRAWN BY: KHTAM  
 CHECKED BY: TLC  
 DATE: \_\_\_\_\_

**EROSION CONTROL DETAILS**

WINSOME FILING NO. 2  
 PREPARED FOR  
**WINSOME LLC**  
 EL PASO COUNTY

Plotted By: Kofford, Kevin. Sheet: SMT-WINSOME-F2. Layout: EROSION CONTROL DETAILS (2). February 18, 2021. 11:23:35am. K:\VEN\_Civil\196106000\_Winsome-F2\CADD\PlanSheets\196106000-EC-DT-FRE.dwg  
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**Check Dams (CD) EC-12**



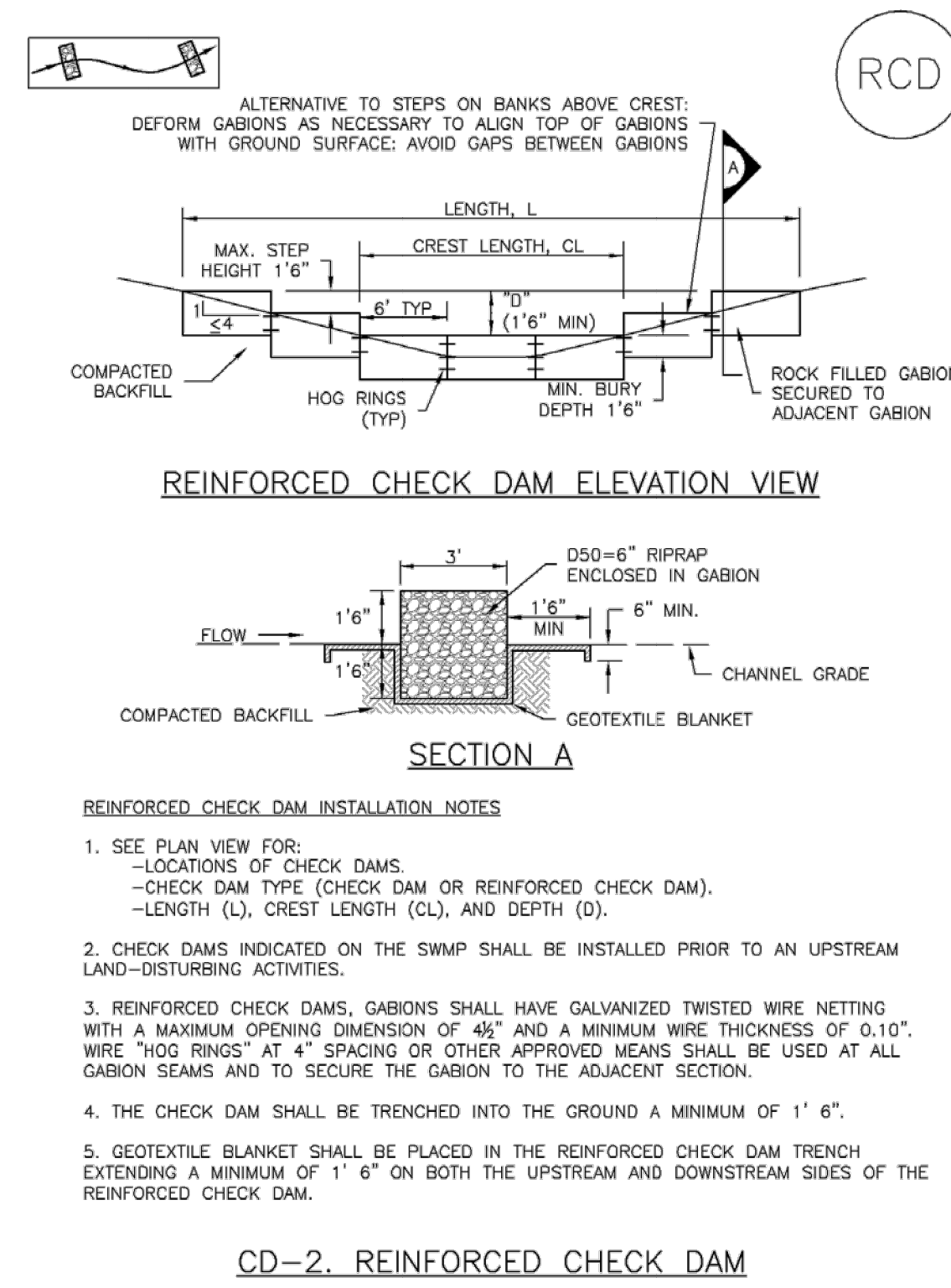
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CD-3

**Check Dams (CD) EC-12**

- CHECK DAM INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
    - LOCATION OF CHECK DAMS.
    - CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM).
    - LENGTH (L), CREST LENGTH (CL), AND DEPTH (D).
  - CHECK DAMS INDICATED ON INITIAL SWMP SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND DISTURBING ACTIVITIES.
  - RIPRAP UTILIZED FOR CHECK DAMS SHOULD BE OF APPROPRIATE SIZE FOR THE APPLICATION. TYPICAL TYPES OF RIPRAP USED FOR CHECK DAMS ARE TYPE M (D50 12") OR TYPE L (D50 9").
  - RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'.
  - THE ENDS OF THE CHECK DAM SHALL BE A MINIMUM OF 1' 6" HIGHER THAN THE CENTER OF THE CHECK DAM.
- CHECK DAM MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - SEDIMENT ACCUMULATED UPSTREAM OF THE CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS WITHIN 1/2 OF THE HEIGHT OF THE CREST.
  - CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
  - WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACKFILL. DISTURBED AREA SHALL BE SEEDED AND MULCHED AND COVERED WITH GEOTEXTILE OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
- (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)
- NOTE:** MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CD-4

**Check Dams (CD) EC-12**



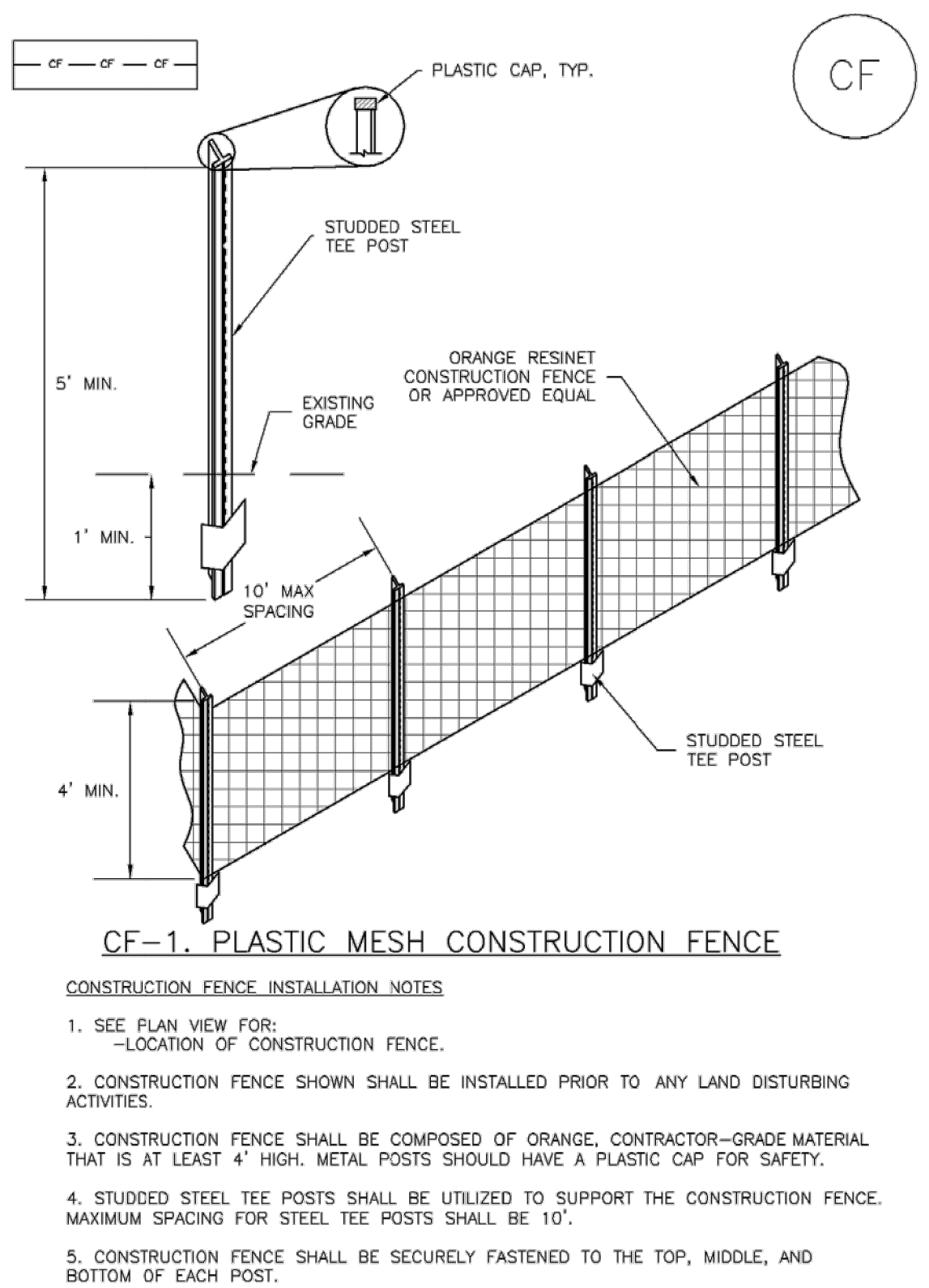
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CD-5

**Check Dams (CD) EC-12**

- REINFORCED CHECK DAM MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - SEDIMENT ACCUMULATED UPSTREAM OF REINFORCED CHECK DAMS SHALL BE REMOVED AS NEEDED TO MAINTAIN THE EFFECTIVENESS OF BMP, TYPICALLY WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN 1/2 THE HEIGHT OF THE CREST.
  - REPAIR OR REPLACE REINFORCED CHECK DAMS WHEN THERE ARE SIGNS OF DAMAGE SUCH AS HOLES IN THE GABION OR UNDERCUTTING.
  - REINFORCED CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
  - WHEN REINFORCED CHECK DAMS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED, AND COVERED WITH A GEOTEXTILE BLANKET, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.
- (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)
- NOTE:** MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CD-6

**SM-3 Construction Fence (CF)**



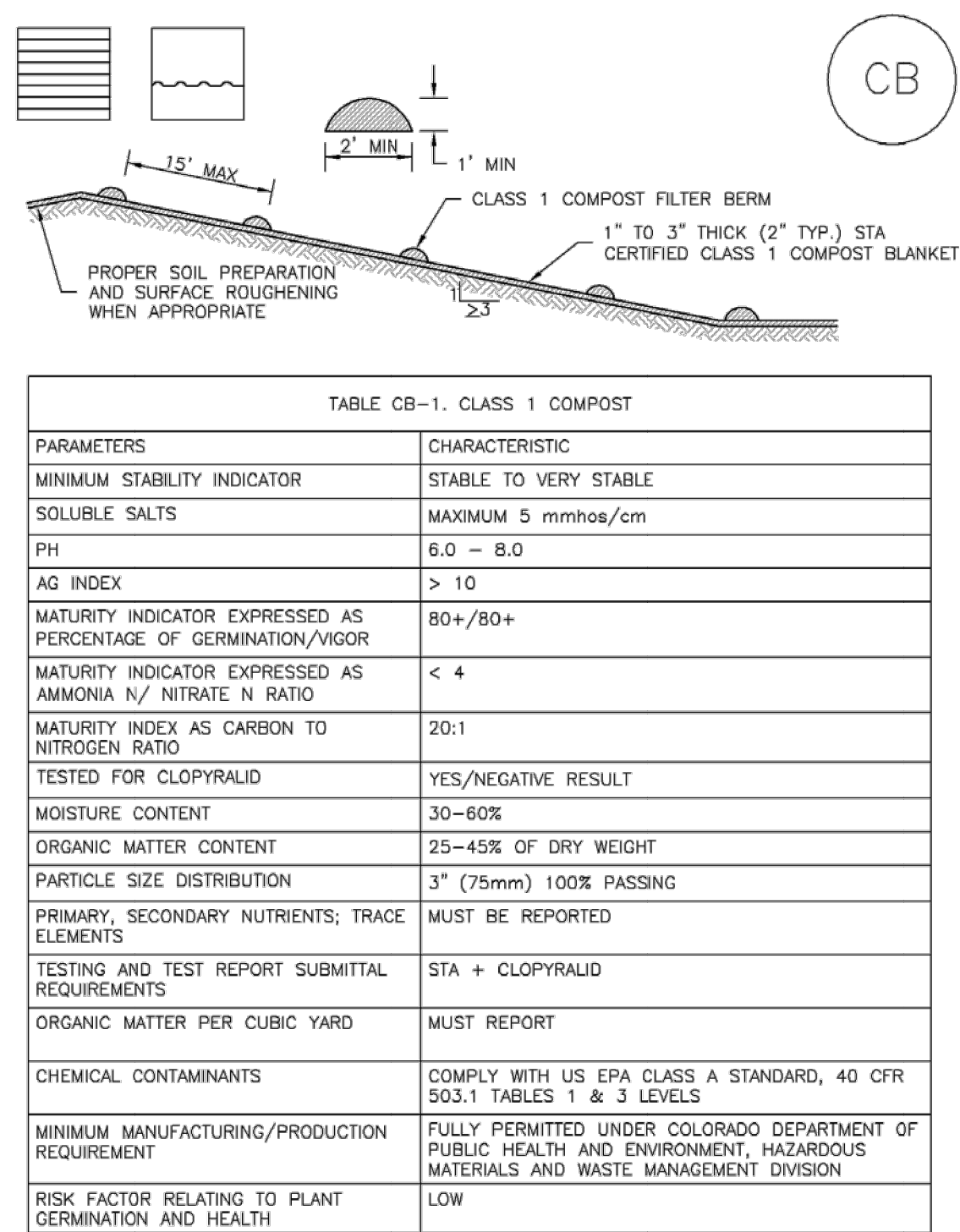
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CF-2

**SM-3 Construction Fence (CF)**

- CONSTRUCTION FENCE MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - CONSTRUCTION FENCE SHALL BE REPAIRED OR REPLACED WHEN THERE ARE SIGNS OF DAMAGE SUCH AS RIPS OR SAGS. CONSTRUCTION FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
  - WHEN CONSTRUCTION FENCES ARE REMOVED, ALL DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE FENCE SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.
- NOTE:** MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- (DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

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**Compost Blanket and Filter Berm (CB) EC-5**



**TABLE CB-1. CLASS 1 COMPOST**

PARAMETERS	CHARACTERISTIC
MINIMUM STABILITY INDICATOR	STABLE TO VERY STABLE
SOLUBLE SALTS	MAXIMUM 5 mmhos/cm
PH	6.0 - 8.0
AG INDEX	> 10
MATURITY INDICATOR EXPRESSED AS PERCENTAGE OF GERMINATION/VIGOR	80+/80+
MATURITY INDICATOR EXPRESSED AS AMMONIA N/ NITRATE N RATIO	< 4
MATURITY INDEX AS CARBON TO NITROGEN RATIO	20:1
TESTED FOR CLOPYRALID	YES/NEGATIVE RESULT
MOISTURE CONTENT	30-60%
ORGANIC MATTER CONTENT	25-45% OF DRY WEIGHT
PARTICLE SIZE DISTRIBUTION	3" (75mm) 100% PASSING
PRIMARY, SECONDARY NUTRIENTS; TRACE ELEMENTS	MUST BE REPORTED
TESTING AND TEST REPORT SUBMITTAL REQUIREMENTS	STA + CLOPYRALID
ORGANIC MATTER PER CUBIC YARD	MUST REPORT
CHEMICAL CONTAMINANTS	COMPLY WITH US EPA CLASS A STANDARD, 40 CFR 503.1 TABLES 1 & 3 LEVELS
MINIMUM MANUFACTURING/PRODUCTION REQUIREMENT	FULLY PERMITTED UNDER COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, HAZARDOUS MATERIALS AND WASTE MANAGEMENT DIVISION
RISK FACTOR RELATING TO PLANT GERMINATION AND HEALTH	LOW

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CB-3

**Compost Blanket and Filter Berm (CB) EC-5**

- COMPOST FILTER BERM AND COMPOST BLANKET INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
    - LOCATION OF COMPOST FILTER BERM(S).
    - LENGTH OF COMPOST FILTER BERM(S).
  - COMPOST BERMS AND BLANKETS MAY BE USED IN PLACE OF STRAW MULCH OR GEOTEXTILE FABRIC IN AREAS WHERE ACCESS TO LANDSCAPING IS DIFFICULT DUE TO LANDSCAPING OR OTHER OBJECTS OR IN AREAS WHERE A SMOOTH TURF GRASS FINISH IS DESIRED.
  - FILTER BERMS SHALL RUN PARALLEL TO THE CONTOUR.
  - FILTER BERMS SHALL BE A MINIMUM OF 1 FEET HIGH AND 2 FEET WIDE.
  - FILTER BERMS SHALL BE APPLIED BY PNEUMATIC BLOWER OR BY HAND.
  - FILTER BERMS SHALL ONLY BE UTILIZED IN AREAS WHERE SHEET FLOW CONDITIONS PREVAIL AND NOT IN AREAS OF CONCENTRATED FLOW.
  - COMPOST BLANKETS SHALL BE APPLIED AT A DEPTH OF 1 -3 INCHES (TYPICALLY 2 INCHES). FOR AREAS WITH EXISTING VEGETATION THAT ARE TO BE SUPPLEMENTED BY COMPOST, A THIN 0.5-INCH LAYER MAY BE USED.
  - SEEDING SHALL BE PERFORMED PRIOR TO THE APPLICATION OF COMPOST. ALTERNATIVELY, SEED MAY BE COMBINED WITH COMPOST AND BLOWN WITH THE PNEUMATIC BLOWER.
  - WHEN TURF GRASS FINISH IS NOT DESIRED, SURFACE ROUGHENING ON SLOPES SHALL TAKE PLACE PRIOR TO COMPOST APPLICATION.
  - COMPOST SHALL BE A CLASS 1 COMPOST AS DEFINED BY TABLE CB-1.
- COMPOST FILTER BERM MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - COMPOST BERMS AND BLANKETS SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RILLING IN THE COMPOST SURFACE OCCURS.
- (DETAILS ADAPTED FROM ARAPAHOE COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)
- NOTE:** MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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WINSOME FILING NO. 2  
PREPARED FOR  
WINSOME LLC

EROSION CONTROL  
DETAILS (2)

EL PASO COUNTY

KHA PROJECT  
019610600

DATE  
01/08/2021

SCALE  
AS SHOWN

DESIGNED BY  
KHTAM

DRAWN BY  
KHTAM

CHECKED BY  
TLC DATE: \_\_\_\_\_

LICENSED PROFESSIONAL  
KEVIN KOFFORD  
CO LICENSE NUMBER  
57234

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REVISIONS

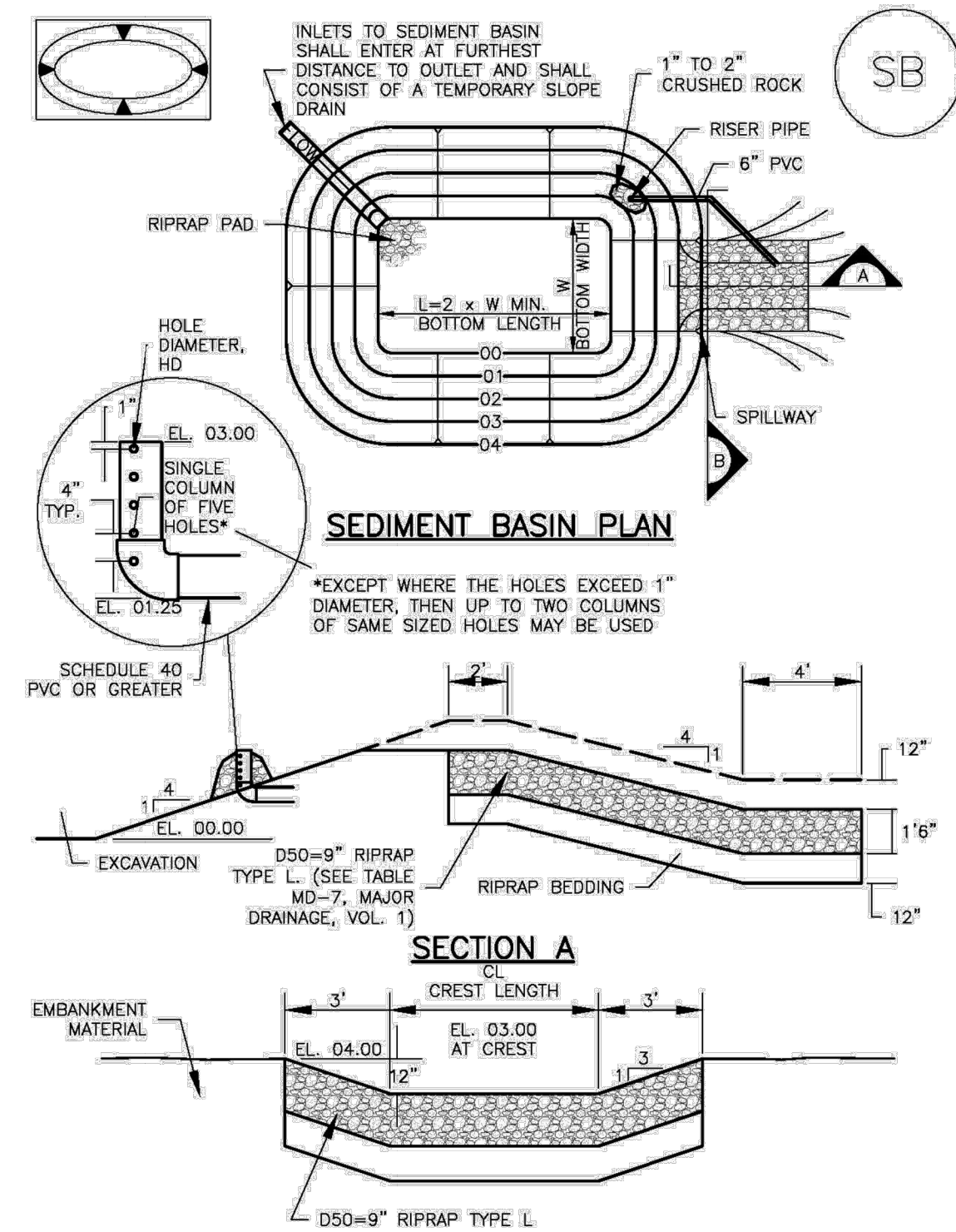
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DATE

SHEET NUMBER  
**13**

**Sediment Basin (SB)**

SC-7



August 2013 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 SB-5

**SC-7**

**Sediment Basin (SB)**

TABLE SB-1. SIZING INFORMATION FOR STANDARD SEDIMENT BASIN

Upstream Drainage Area (rounded to nearest acre), (ac)	Basin Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in)
1	12 1/2	2	3/2
2	21	3	5/4
3	28	5	5/2
4	33 1/2	6	5/2
5	39 1/2	8	5/2
6	43	9	5/2
7	47 1/2	11	5/2
8	51	12	5/2
9	55	13	5/2
10	58 1/2	15	5/2
11	61	16	5/2
12	64	18	5/2
13	67 1/2	19	1 1/2
14	70 1/2	21	1 3/4
15	73 1/2	22	1 3/4

Circle construction details for each sediment basin

**SEDIMENT BASIN INSTALLATION NOTES**

- SEE PLAN VIEW FOR:
  - LOCATION OF SEDIMENT BASIN
  - TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN)
  - FOR STANDARD BASIN, BOTTOM WIDTH W, CREST LENGTH CL, AND HOLE DIAMETER HD
  - FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE DIAMETER D.
- FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON ON BASINS AS A STORMWATER CONTROL.
- EMBANKMENT MATERIAL SHALL CONSIST OF SOIL, FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
- EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- PIPE SCH 40 OR GREATER SHALL BE USED.
- THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

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**Sediment Basin (SB)**

SC-7

**SEDIMENT BASIN MAINTENANCE NOTES**

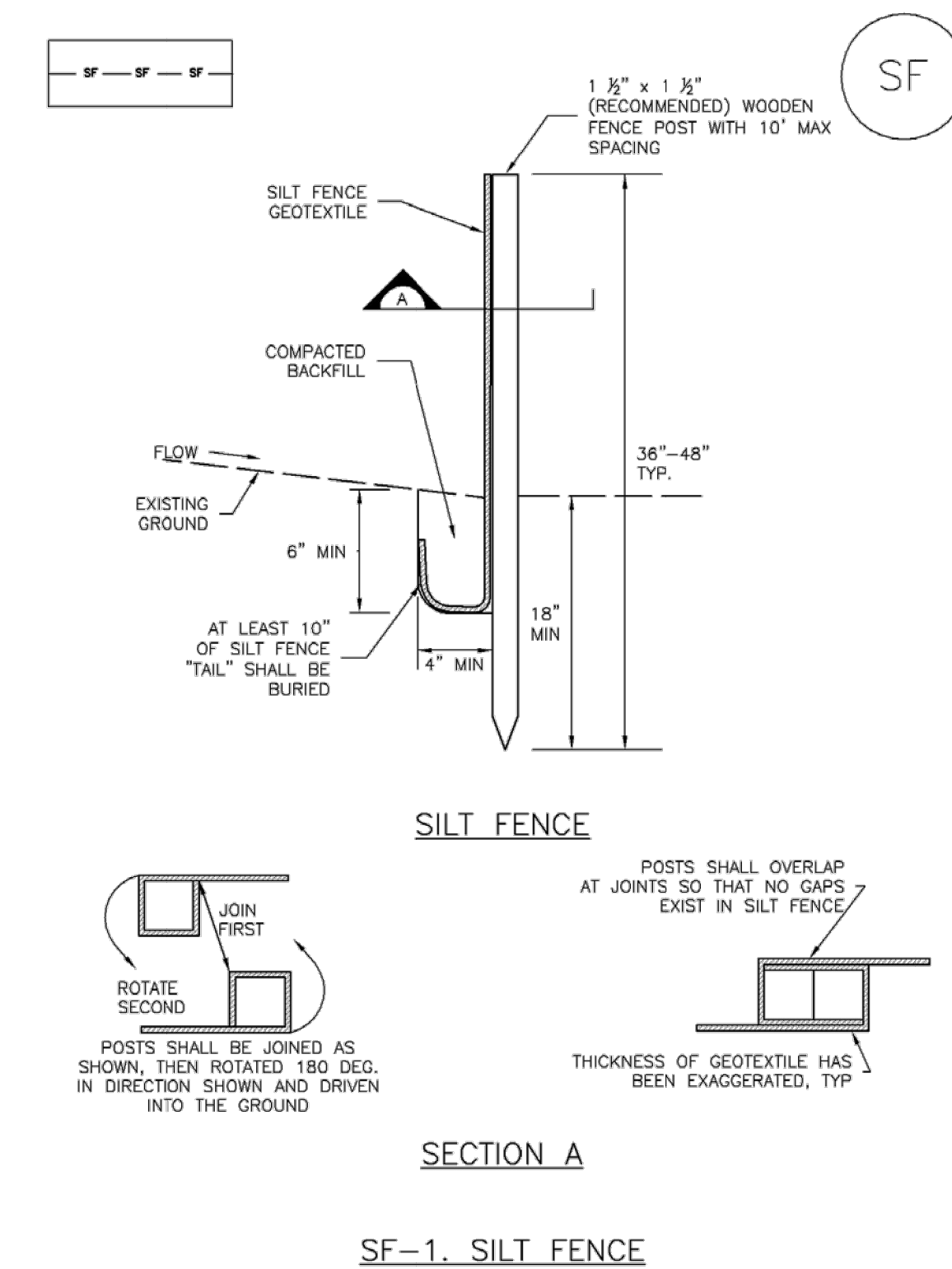
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- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET BELOW THE SPILLWAY CREST).
- SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION.
- WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO)  
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

August 2013 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 SB-7

**Silt Fence (SF)**

SC-1



November 2010 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 SF-3

**SC-1**

**Silt Fence (SF)**

**SILT FENCE INSTALLATION NOTES**

- SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.
- A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE, NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.
- COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
- SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
- SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.
- AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
- SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

**SILT FENCE MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".
- REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
- SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
- WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD)  
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November 2010 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 SF-4

**EC-2 Temporary and Permanent Seeding (TS/PS)**

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses

Common Name <sup>a</sup>	Botanical Name	Growth Season <sup>b</sup>	Growth Form	Seeds/Pound	Pounds of PLS/acre
<b>Alkali Soil Seed Mix</b>					
Alkali sacaton	<i>Sporobolus airoides</i>	Cool	Bunch	1,750,000	0.25
Basin wildrye	<i>Elymus cinereus</i>	Cool	Bunch	165,000	2.5
Sodar streambank wheatgrass	<i>Agropyron riparium 'Sodar'</i>	Cool	Sod	170,000	2.5
Jose tall wheatgrass	<i>Agropyron elongatum 'Jose'</i>	Cool	Bunch	79,000	7.0
Arriba western wheatgrass	<i>Agropyron smithii 'Arriba'</i>	Cool	Sod	110,000	5.5
<b>Total</b>					<b>17.75</b>
<b>Fertile Loamy Soil Seed Mix</b>					
Ephraim crested wheatgrass	<i>Agropyron cristatum 'Ephraim'</i>	Cool	Sod	175,000	2.0
Dural hard fescue	<i>Festuca ovina 'duriuscula'</i>	Cool	Bunch	565,000	1.0
Lincoln smooth brome	<i>Bromus inermis leysii 'Lincoln'</i>	Cool	Sod	130,000	3.0
Sodar streambank wheatgrass	<i>Agropyron riparium 'Sodar'</i>	Cool	Sod	170,000	2.5
Arriba western wheatgrass	<i>Agropyron smithii 'Arriba'</i>	Cool	Sod	110,000	7.0
<b>Total</b>					<b>15.5</b>
<b>High Water Table Soil Seed Mix</b>					
Meadow foxtail	<i>Alopecurus pratensis</i>	Cool	Sod	900,000	0.5
Redtop	<i>Agrostis alba</i>	Warm	Open sod	5,000,000	0.25
Reed canarygrass	<i>Phalaris arundinacea</i>	Cool	Sod	68,000	0.5
Lincoln smooth brome	<i>Bromus inermis leysii 'Lincoln'</i>	Cool	Sod	130,000	3.0
Pathfinder switchgrass	<i>Panicum virgatum 'Pathfinder'</i>	Warm	Sod	389,000	1.0
Alkat tall wheatgrass	<i>Agropyron elongatum 'Alkat'</i>	Cool	Bunch	79,000	5.5
<b>Total</b>					<b>10.75</b>
<b>Transition Turf Seed Mix<sup>c</sup></b>					
Ruebens Canadian bluegrass	<i>Poa compressa 'Ruebens'</i>	Cool	Sod	2,500,000	0.5
Dural hard fescue	<i>Festuca ovina 'duriuscula'</i>	Cool	Bunch	565,000	1.0
Citation perennial ryegrass	<i>Lolium perenne 'Citation'</i>	Cool	Sod	247,000	3.0
Lincoln smooth brome	<i>Bromus inermis leysii 'Lincoln'</i>	Cool	Sod	130,000	3.0
<b>Total</b>					<b>7.5</b>

June 2012 Urban Drainage and Flood Control District  
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**EC-2 Temporary and Permanent Seeding (TS/PS)**

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses (cont.)

Common Name	Botanical Name	Growth Season <sup>a</sup>	Growth Form	Seeds/Pound	Pounds of PLS/acre
<b>Sandy Soil Seed Mix</b>					
Blue grama	<i>Bouteloua gracilis</i>	Warm	Sod-forming bunchgrass	825,000	0.5
Camper little bluestem	<i>Schizachyrium scoparium 'Camper'</i>	Warm	Bunch	240,000	1.0
Prairie sandreed	<i>Calamovilfa longifolia</i>	Warm	Open sod	274,000	1.0
Sand dropseed	<i>Sporobolus cryptandrus</i>	Cool	Bunch	5,298,000	0.25
Vaughn sidecoats grama	<i>Bouteloua curtipendula 'Vaughn'</i>	Warm	Sod	191,000	2.0
Arriba western wheatgrass	<i>Agropyron smithii 'Arriba'</i>	Cool	Sod	110,000	5.5
<b>Total</b>					<b>10.25</b>
<b>Heavy Clay, Rocky Foothill Seed Mix</b>					
Ephraim crested wheatgrass <sup>d</sup>	<i>Agropyron cristatum 'Ephraim'</i>	Cool	Sod	175,000	1.5
Oahe Intermediate wheatgrass	<i>Agropyron intermedium 'Oahe'</i>	Cool	Sod	115,000	5.5
Vaughn sidecoats grama <sup>e</sup>	<i>Bouteloua curtipendula 'Vaughn'</i>	Warm	Sod	191,000	2.0
Lincoln smooth brome	<i>Bromus inermis leysii 'Lincoln'</i>	Cool	Sod	130,000	3.0
Arriba western wheatgrass	<i>Agropyron smithii 'Arriba'</i>	Cool	Sod	110,000	5.5
<b>Total</b>					<b>17.5</b>

<sup>a</sup> All of the above seeding mixes and rates are based on drill seeding followed by crimped straw mulch. These rates should be doubled if seed is broadcast and should be increased by 50 percent if the seeding is done using a Brillion Drill or is applied through hydraulic seeding. Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1. If hydraulic seeding is used, hydraulic mulching should be done as a separate operation.  
<sup>b</sup> See Table TS/PS-3 for seeding dates.  
<sup>c</sup> If site is to be irrigated, the transition turf seed rates should be doubled.  
<sup>d</sup> Crested wheatgrass should not be used on slopes steeper than 6H to 1V.  
<sup>e</sup> Can substitute 0.5 lbs PLS of blue grama for the 2.0 lbs PLS of Vaughn sidecoats grama.

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**EC-2 Temporary and Permanent Seeding (TS/PS)**

Seeding dates for the highest success probability of perennial species along the Front Range are generally in the spring from April through early May and in the fall after the first of September until the ground freezes. If the area is irrigated, seeding may occur in summer months, as well. See Table TS/PS-3 for appropriate seeding dates.

Table TS/PS-1. Minimum Drill Seeding Rates for Various Temporary Annual Grasses

Species <sup>a</sup> (Common name)	Growth Season <sup>b</sup>	Pounds of Pure Live Seed (PLS)/acre <sup>c</sup>	Planting Depth (inches)
1. Oats	Cool	35 - 50	1 - 2
2. Spring wheat	Cool	25 - 35	1 - 2
3. Spring barley	Cool	25 - 35	1 - 2
4. Annual ryegrass	Cool	10 - 15	1/2
5. Millet	Warm	3 - 15	1/2 - 3/4
6. Sudangrass	Warm	5 - 10	1/2 - 3/4
7. Sorghum	Warm	5 - 10	1/2 - 3/4
8. Winter wheat	Cool	20 - 35	1 - 2
9. Winter barley	Cool	20 - 35	1 - 2
10. Winter rye	Cool	20 - 35	1 - 2
11. Triticale	Cool	25 - 40	1 - 2

<sup>a</sup> Successful seeding of annual grass resulting in adequate plant growth will usually produce enough dead-plant residue to provide protection from wind and water erosion for an additional year. This assumes that the cover is not disturbed or mowed closer than 8 inches.  
Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1 or where access limitations exist. When hydraulic seeding is used, hydraulic mulching should be applied as a separate operation, when practical, to prevent the seeds from being encapsulated in the mulch.  
<sup>b</sup> See Table TS/PS-3 for seeding dates. Irrigation, if consistently applied, may extend the use of cool season species during the summer months.  
<sup>c</sup> Seeding rates should be doubled if seed is broadcast, or increased by 50 percent if done using a Brillion Drill or by hydraulic seeding.

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Plotted By: Kofford, Kevin. Sheet: Silt/Winsome\_P2\_L04001. EROSION CONTROL DETAILS (3). February 18, 2021. 11:23:42am. K:\VEN\_Civil\196106000\_Winsome\_P2\_CADD\PlanSheets\0196106000\_EC-DT-PRE.dwg  
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WINSOME FILING NO. 2  
PREPARED FOR  
WINSOME LLC

EROSION CONTROL  
DETAILS (3)

EL PASO COUNTY

KHA PROJECT  
019610600

DATE  
01/08/2021

SCALE AS SHOWN  
DESIGNED BY KHTAM  
DRAWN BY KHTAM

CHECKED BY TLC DATE: \_\_\_\_\_

LICENSED PROFESSIONAL  
KEVIN KOFFORD  
CO LICENSE NUMBER  
57234

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