

I:\115360-01 - Compark at Belford\CADD\Hydraulics\Drawings\Happy Cyn Creek Drop Structure - Shawn.Twiss

DROP STRUCTURE NO. 1

DROP STRUCTURE NO. 2

DROP STRUCTURE NO. 3

CHEROKEE TRAIL CROSSING

BELFORD AVENUE

APPROXIMATE EFFECTIVE 100-YEAR FLOODPLAIN LIMITS (FIS)

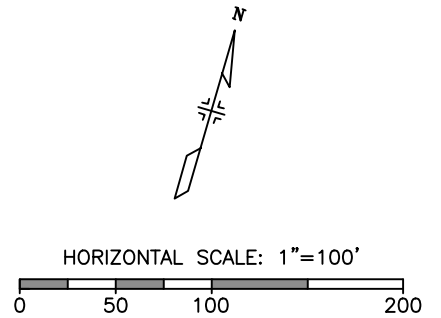
APPROXIMATE EFFECTIVE 100-YEAR FLOODWAY LIMITS (FIS)

NOTES:

1. SEE UTILITY PLANS FOR ADDITIONAL INFORMATION
2. UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.

LEGEND

- TOP OF CUT
- TOE OF FILL
- [Symbol] WETLANDS
- [Symbol] SOIL RIPRAP (12 INCH)
- [Symbol] RIPRAP (12 INCH)
- [Symbol] RIPRAP (18 INCH)
- [Symbol] 24" GROUTED BOULDERS



Print Date: 6/18/2021 8:20:09 AM
 File Name: H115360-01DROP07?eymap.dwg
 Horizontal Scale: 1"=50' Vertical Scale: N.T.S.

| Sheet Revisions | | | |
|-----------------|----------|----------|--|
| Date | Comments | Initials | |
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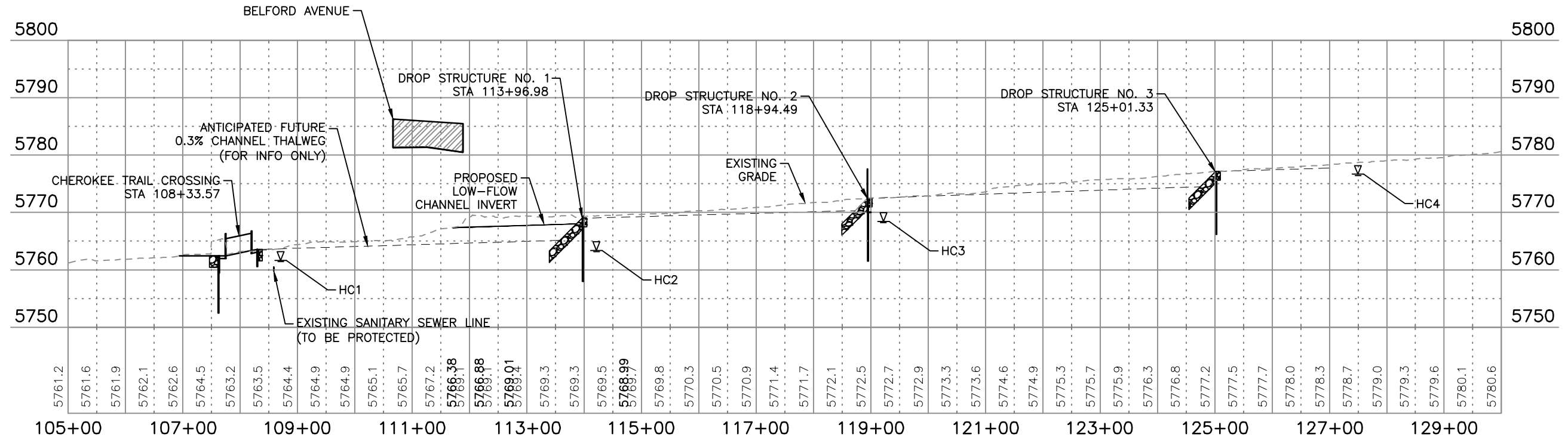
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|----------------|---|---------------------|------------------|
| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE PLAN | | Project No./Code |
| No Revisions: | Designer: CDT | Structure Numbers | |
| Revised: | Detailer: KLT | Sheets: DD-07 of 23 | Sheet Number 70 |
| Void: | Subset: Drainage | | |

NOTES

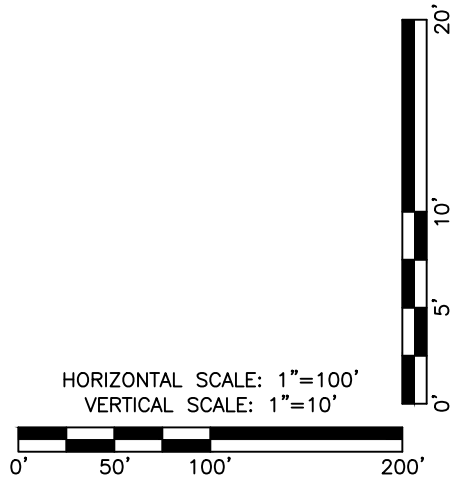
- UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.
- SEE UTILITY PLANS FOR ADDITIONAL INFORMATION.



HAPPY CANYON CREEK PROFILE

▽ APPROX. GROUNDWATER ELEVATION

| GROUNDWATER ELEVATIONS | |
|------------------------|-----------------------------------|
| TEST BORING ID | APPROX. DEPTH BELOW SURFACE (FT.) |
| HC1 | -2.0 |
| HC2 | -6.0 |
| HC3 | -4.0 |
| HC4 | -2.0 |



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Print Date: 6/18/2021 7:17:43 AM
 File Name: H115360-01DROP08?profile.dwg
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| Sheet Revisions | | |
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| Date | Comments | Initials |
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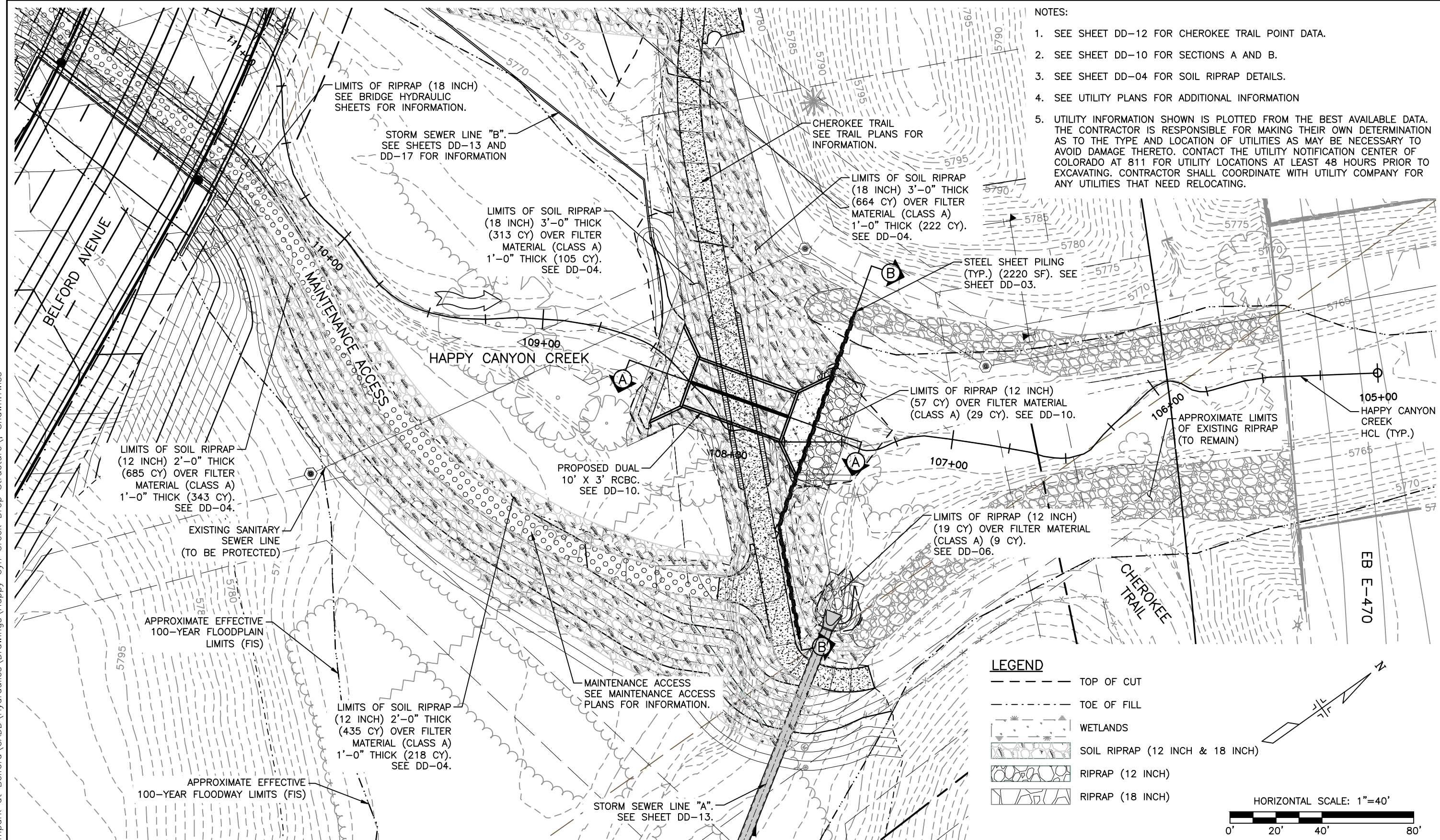
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| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE PROFILE | | Project No./Code |
| No Revisions: | Designer: CDT | Structure Numbers | |
| Revised: | Detailer: ZJG | | |
| Void: | Subset: Drainage | Sheets: DD-08 of 23 | Sheet Number 71 |

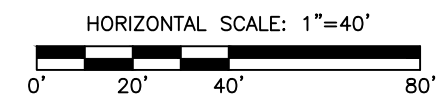
NOTES:

1. SEE SHEET DD-12 FOR CHEROKEE TRAIL POINT DATA.
2. SEE SHEET DD-10 FOR SECTIONS A AND B.
3. SEE SHEET DD-04 FOR SOIL RIPRAP DETAILS.
4. SEE UTILITY PLANS FOR ADDITIONAL INFORMATION
5. UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.



LEGEND

- TOP OF CUT
- - - - - TOE OF FILL
- [Symbol] WETLANDS
- [Symbol] SOIL RIPRAP (12 INCH & 18 INCH)
- [Symbol] RIPRAP (12 INCH)
- [Symbol] RIPRAP (18 INCH)



I:\115360-01 - Compare at Belford\CADD\Hydraulics\Drawings\Happy Cyn Creek Drop Structure - Shawn.Twiss

Print Date: 6/18/2021 8:51:33 AM
 File Name: H115360-01DROPO9? CherokeeTrailCrossing
 Horizontal Scale: 1"=20' Vertical Scale: N.T.S.
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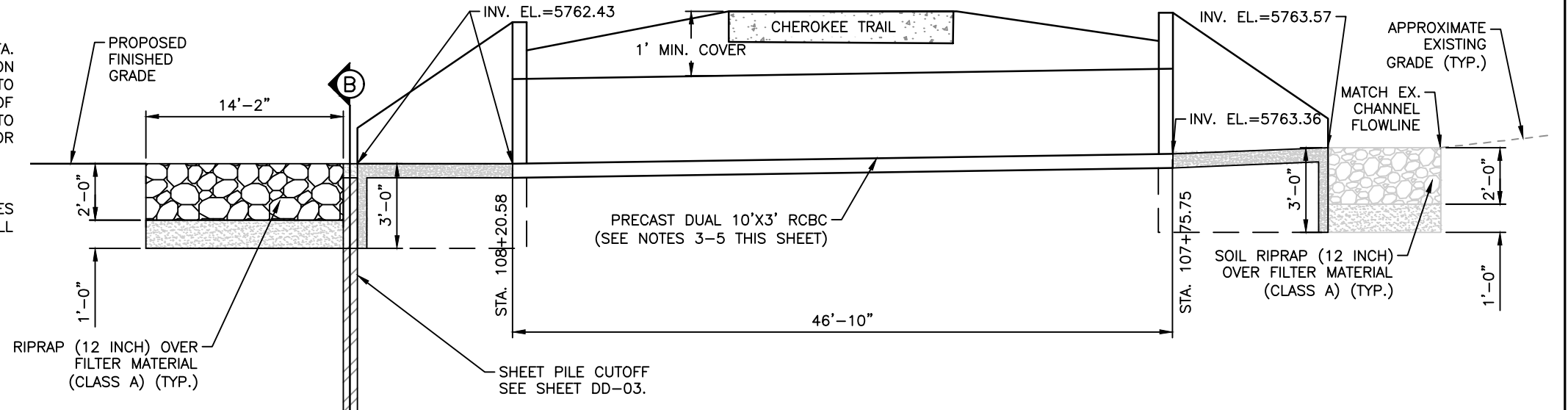
| Sheet Revisions | | | |
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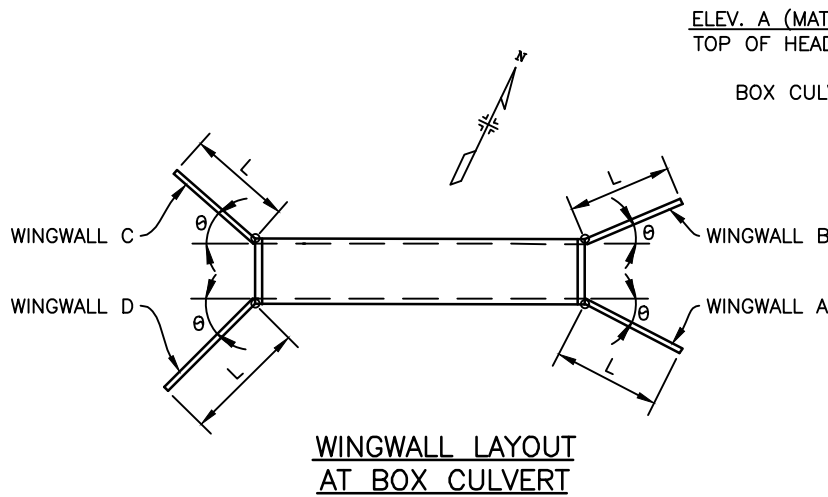
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| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE CHEROKEE TRAIL PLAN | | Project No./Code |
| No Revisions: | Designer: CDT | Structure Numbers | |
| Revised: | Detailer: ZJG | Sheets: DD-09 of 23 | Sheet Number 72 |
| Void: | Subset: Drainage | | |

NOTES:

1. UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.
2. SEE UTILITY PLANS FOR ADDITIONAL INFORMATION.
3. PRECAST BOX CULVERT MUST CONFORM TO CDOT M-STANDARDS M-603-2.
4. FOR CAST-IN-PLACE END SECTIONS, USE M-601-2 FOR WALL THICKNESSES AND REINFORCEMENT SIZE AND SPACINGS WITH S=10 FT, R=6 FT, AND FILL HEIGHT = 0-5 FT.
5. FOR WINGWALLS AND CONCRETE APRON, USE M-601-20.

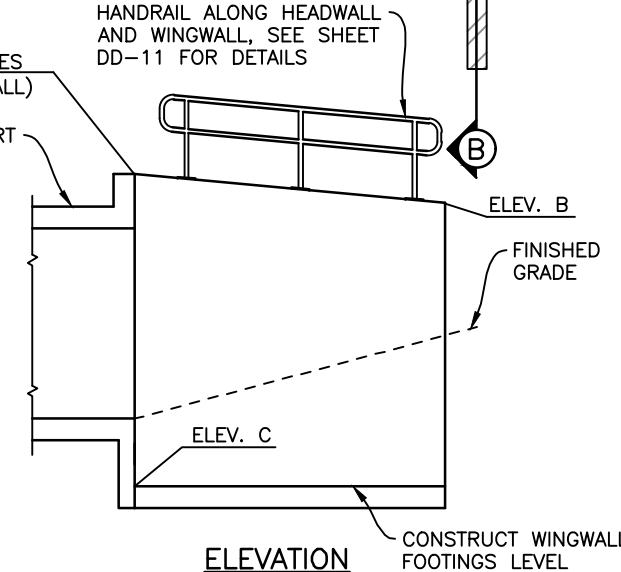


(A) CHEROKEE TRAIL CROSSING PROFILE @ RCBC
 STA 107+48.70 TO 108+41.52
 N.T.S.

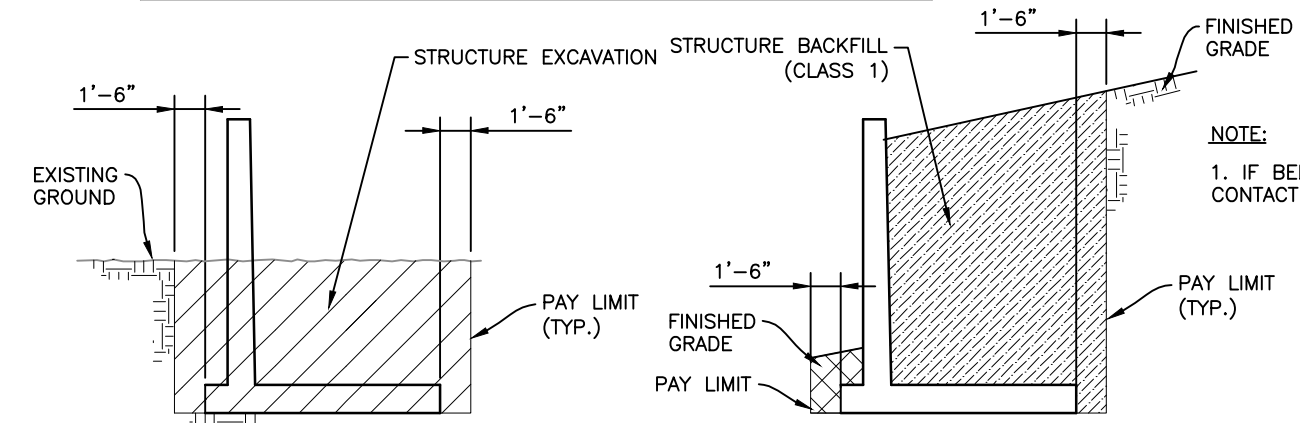


WINGWALL LAYOUT AT BOX CULVERT

| WINGWALL | θ | L | ELEV. A | ELEV. B | ELEV. C |
|----------|---------|--------|---------|---------|---------|
| A | 45°0'0" | 15'-6" | 5767.18 | 5763.43 | 5760.43 |
| B | 45°0'0" | 15'-6" | 5767.18 | 5763.43 | 5760.43 |
| C | 45°0'0" | 15'-6" | 5768.11 | 5764.57 | 5761.36 |
| D | 45°0'0" | 15'-6" | 5768.11 | 5764.57 | 5761.36 |



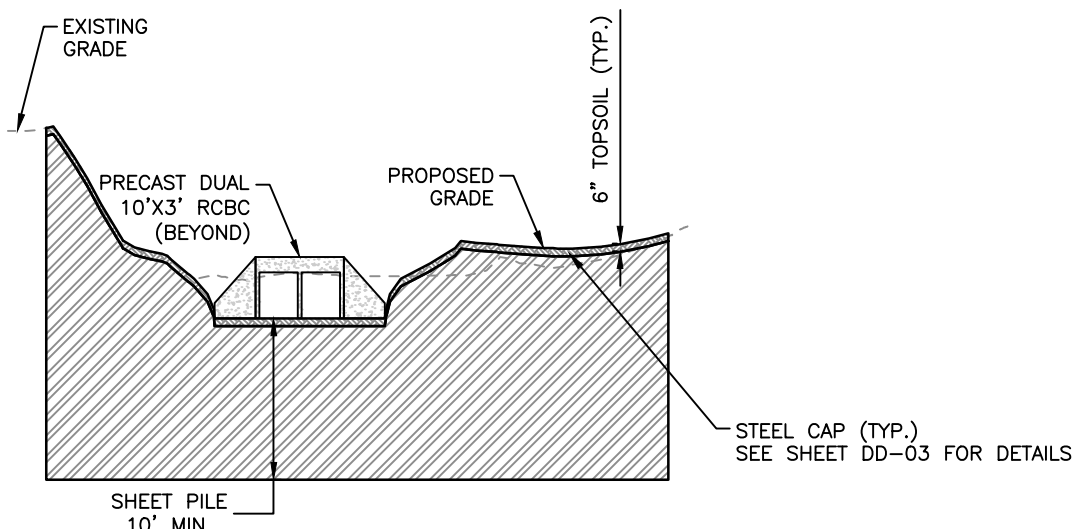
ELEVATION WINGWALLS



WINGWALLS EXCAVATION

WINGWALLS BACKFILL

NOTE:
 1. IF BEDROCK IS ENCOUNTERED, CONTACT ENGINEER PRIOR TO PROCEEDING.



(B) CREST SECTION
 STA 107+63.54

HORIZONTAL SCALE: 1"=50'
 VERTICAL SCALE: 1"=10'

HAPPY CANYON CREEK HYDRAULICS

| |
|----------------------------|
| Q100= 8,303 C.F.S |
| Q100 VELOCITY = 6.11 F.P.S |
| FROUDE No.=0.31 |

FOR INFO ONLY

CHEROKEE TRAIL CROSSING

Print Date: 6/18/2021 6:37:40 AM
 File Name: H115360-01DROP10Drop1 Prof Sect.dwg
 Horizontal Scale: 1"=50' Vertical Scale: 1"=10'

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Sheet Revisions

| Date | Comments | Initials |
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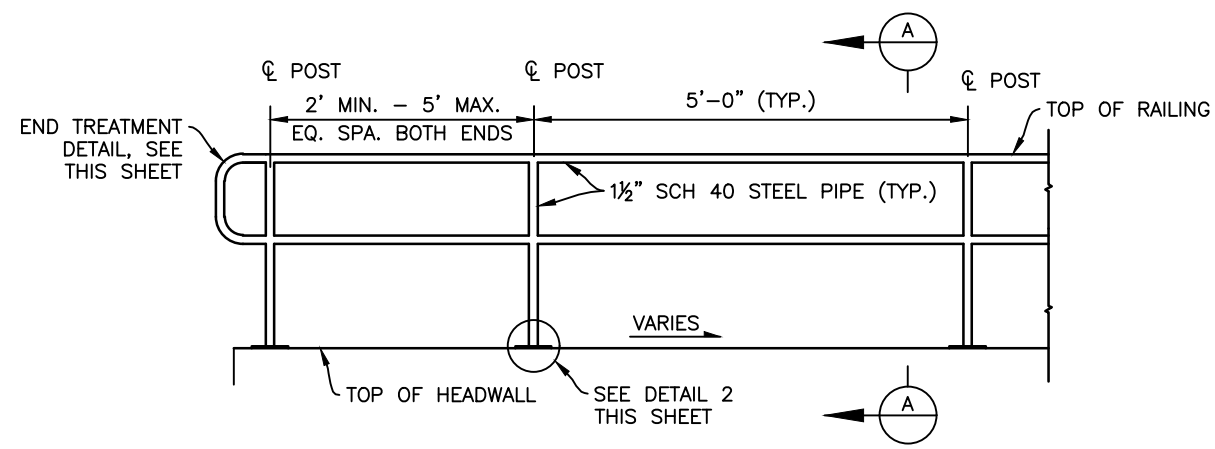
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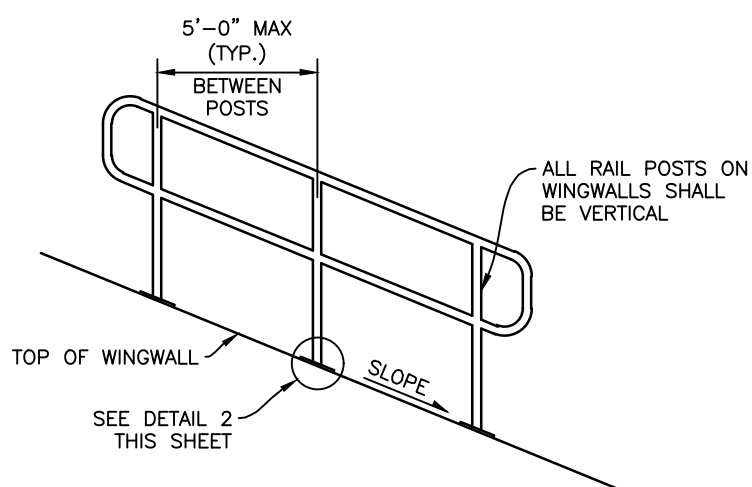
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|----------------|---|------------------|
| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE CHEROKEE TRAIL PROFILE/DETAILS | Project No./Code |
| No Revisions: | Designer: CDT Structure Detailer: ZJG Numbers | |
| Revised: | Subset: Drainage Sheets: DD-10 of 23 | |
| Void: | | Sheet Number 73 |

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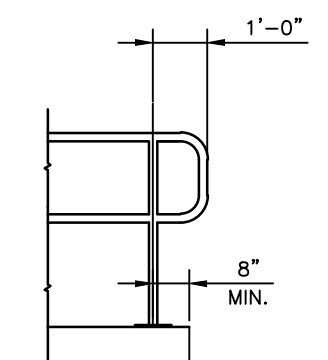
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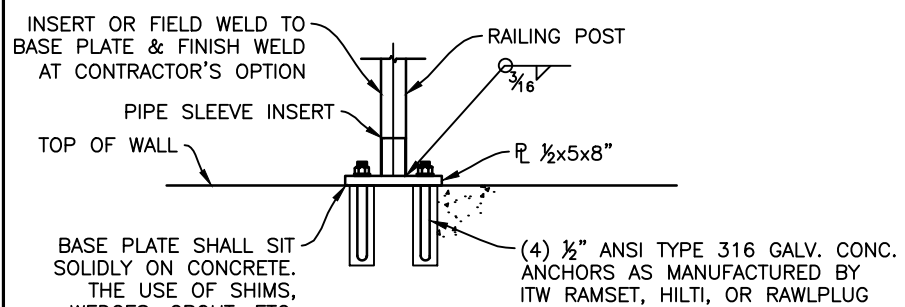
ELEVATION VIEW OF HEADWALL RAILING
N.T.S.



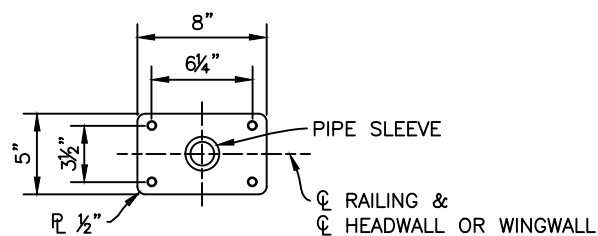
ELEVATION VIEW OF WINGWALL RAILING
N.T.S.



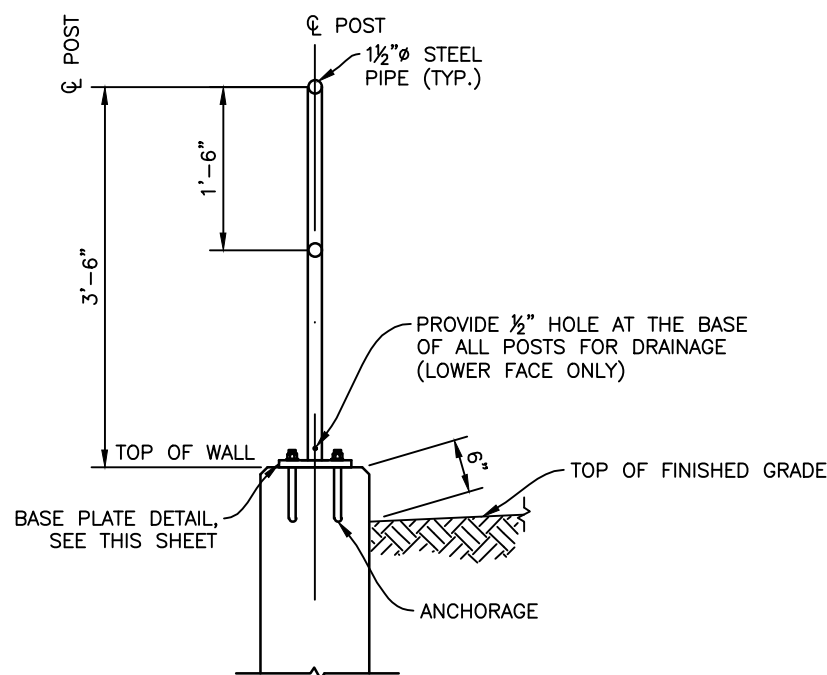
TYPICAL END TREATMENT DETAIL
N.T.S.



DETAIL 2 ANCHORAGE DETAIL
N.T.S.



BASE PLATE DETAIL
N.T.S.



SECTION A
N.T.S.

HANDRAIL AND ANCHOR COATING:
HANDRAIL AND ANCHOR SHALL BE STEEL AND SAND BLASTED TO A NEAR WHITE FINISH PER STEEL STRUCTURES PAINTING COUNCIL (SSPC) SP10. FIELD WELDS SHALL BE GROUND SMOOTH PRIOR TO BLASTING. COAT HANDRAIL AND ANCHOR WITH TNE MEC (OR EQUIVALENT) POLYAMIDE EPOXY: 66 HI-BUILD EXPOXOLINE, GRAY - ANSI No. 61 (IN05), 4.0 TO 6.0 MILLS DRY FILM THICKNESS. THE FINAL COAT OF PAINT SHALL BE TNE MEC (OR EQUIVALENT) ALIPHATIC POLYESTER POLYURETHANE: ENDURE SHIELD, PARKER BROWN (F073D3884A), 1.5 TO 2.5 MILLS DRY FILM THICKNESS. PRIMER AND PAINT SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

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| Print Date: 6/18/2021 6:37:25 AM |
| File Name: H115360-01DROP10Drop1 Details.dwg |
| Horizontal Scale: VARIES Vertical Scale: |
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| Date | Comments | Initials | |
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|----------------|---|---------------------|------------------|
| As Constructed | BELFORD - HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE CHEROKEE TRAIL RAILING DETAILS | | Project No./Code |
| No Revisions: | Designer: AJP | Structure Numbers | |
| Revised: | Detailer: CDM | | |
| Void: | Subset: Drainage | Sheets: DD-11 of 23 | Sheet Number 74 |

HAPPY CANYON CREEK CHEROKEE TRAIL STEEL SHEET PILE CUTOFF WALL POINT DATA

| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|----------|----------|-----------|--|
| W1 | 27865.91 | 94895.02 | 5767.95 | STEEL SHEET PILE WALL - TOP OF STEEL CAP EL. |
| W2 | 27887.19 | 94849.78 | 5767.36 | STEEL SHEET PILE WALL - TOP OF STEEL CAP EL. |
| W3 | 27968.14 | 94793.51 | 5770.25 | STEEL SHEET PILE WALL - TOP OF STEEL CAP EL. |

HAPPY CANYON CREEK CHEROKEE TRAIL GRADING POINT DATA


| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|----------|----------|-----------|--------------------|
| G1 | 27872.10 | 94962.88 | 5779.00 | FINISHED GRADE EL. |
| G2 | 27823.77 | 94932.12 | 5779.00 | FINISHED GRADE EL. |
| G3 | 27808.04 | 94890.63 | 5779.00 | FINISHED GRADE EL. |
| G4 | 27766.29 | 94809.24 | 5779.00 | FINISHED GRADE EL. |
| G5 | 27745.18 | 94744.70 | 5779.00 | FINISHED GRADE EL. |

HAPPY CANYON CREEK CHEROKEE TRAIL SOIL RIPRAP POINT DATA

| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|----------|----------|-----------|--|
| SR1 | 27769.57 | 94610.15 | 5777.00 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR2 | 27835.00 | 94932.41 | 5777.00 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR3 | 27801.00 | 94604.71 | 5765.86 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR4 | 27800.34 | 94633.29 | 5767.10 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR5 | 27797.05 | 94661.68 | 5769.72 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR6 | 27804.21 | 94763.47 | 5770.47 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR7 | 27862.90 | 94848.01 | 5766.25 | SOIL RIPRAP (18 INCH) - FINISHED GRADE EL. |
| SR8 | 27885.85 | 94800.95 | 5767.60 | SOIL RIPRAP (18 INCH) - FINISHED GRADE EL. |
| SR9 | 27876.75 | 94787.62 | 5765.88 | SOIL RIPRAP (18 INCH) - FINISHED GRADE EL. |
| SR10 | 27853.55 | 94783.45 | 5766.72 | SOIL RIPRAP (18 INCH) - FINISHED GRADE EL. |
| SR11 | 27913.61 | 94738.94 | 5766.30 | SOIL RIPRAP (18 INCH) - FINISHED GRADE EL. |
| SR12 | 27871.26 | 94540.03 | 5768.10 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR13 | 27892.28 | 94575.67 | 5770.18 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR14 | 27920.57 | 94605.87 | 5772.85 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR15 | 27943.91 | 94626.32 | 5774.60 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR16 | 27967.25 | 94646.78 | 5775.74 | SOIL RIPRAP (18 INCH) - FINISHED GRADE EL. |
| SR17 | 27912.28 | 94510.88 | 5777.00 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR18 | 27925.40 | 94519.82 | 5777.00 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR19 | 27937.08 | 94566.65 | 5777.00 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR20 | 27941.85 | 94573.12 | 5777.00 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR21 | 27962.56 | 94597.66 | 5777.00 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR22 | 27970.79 | 94607.21 | 5777.00 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR23 | 27995.66 | 94624.88 | 5777.00 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR24 | 27980.34 | 94661.67 | 5776.11 | SOIL RIPRAP (18 INCH) - FINISHED GRADE EL. |
| SR25 | 27988.53 | 94666.66 | 5776.90 | SOIL RIPRAP (18 INCH) - FINISHED GRADE EL. |
| SR26 | 27956.85 | 94747.12 | 5773.49 | SOIL RIPRAP (18 INCH) - FINISHED GRADE EL. |
| SR27 | 27965.72 | 94770.00 | 5773.56 | SOIL RIPRAP (18 INCH) - FINISHED GRADE EL. |
| SR28 | 27950.72 | 94782.27 | 5766.42 | SOIL RIPRAP (18 INCH) - FINISHED GRADE EL. |
| SR29 | 27953.26 | 94821.86 | 5765.14 | SOIL RIPRAP (18 INCH) - FINISHED GRADE EL. |
| SR30 | 27913.37 | 94849.59 | 5764.89 | SOIL RIPRAP (18 INCH) - FINISHED GRADE EL. |
| SR31 | 27904.16 | 94855.99 | 5765.02 | SOIL RIPRAP (18 INCH) - FINISHED GRADE EL. |
| SR32 | 27881.83 | 94903.47 | 5766.84 | SOIL RIPRAP (18 INCH) - FINISHED GRADE EL. |
| SR33 | 27890.55 | 94916.56 | 5771.36 | SOIL RIPRAP (18 INCH) - FINISHED GRADE EL. |
| SR34 | 27878.94 | 94919.88 | 5772.38 | SOIL RIPRAP (18 INCH) - FINISHED GRADE EL. |

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Print Date: 6/18/2021 6:37:55 AM
 File Name: H115360-01DROP11? Cherokee Trail Point
 Horizontal Scale: N.T.S. Vertical Scale: N.T.S.



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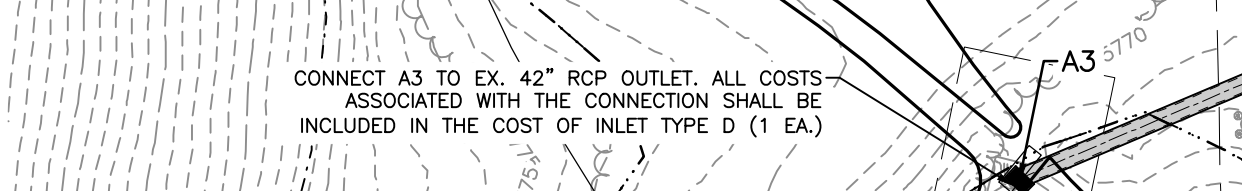
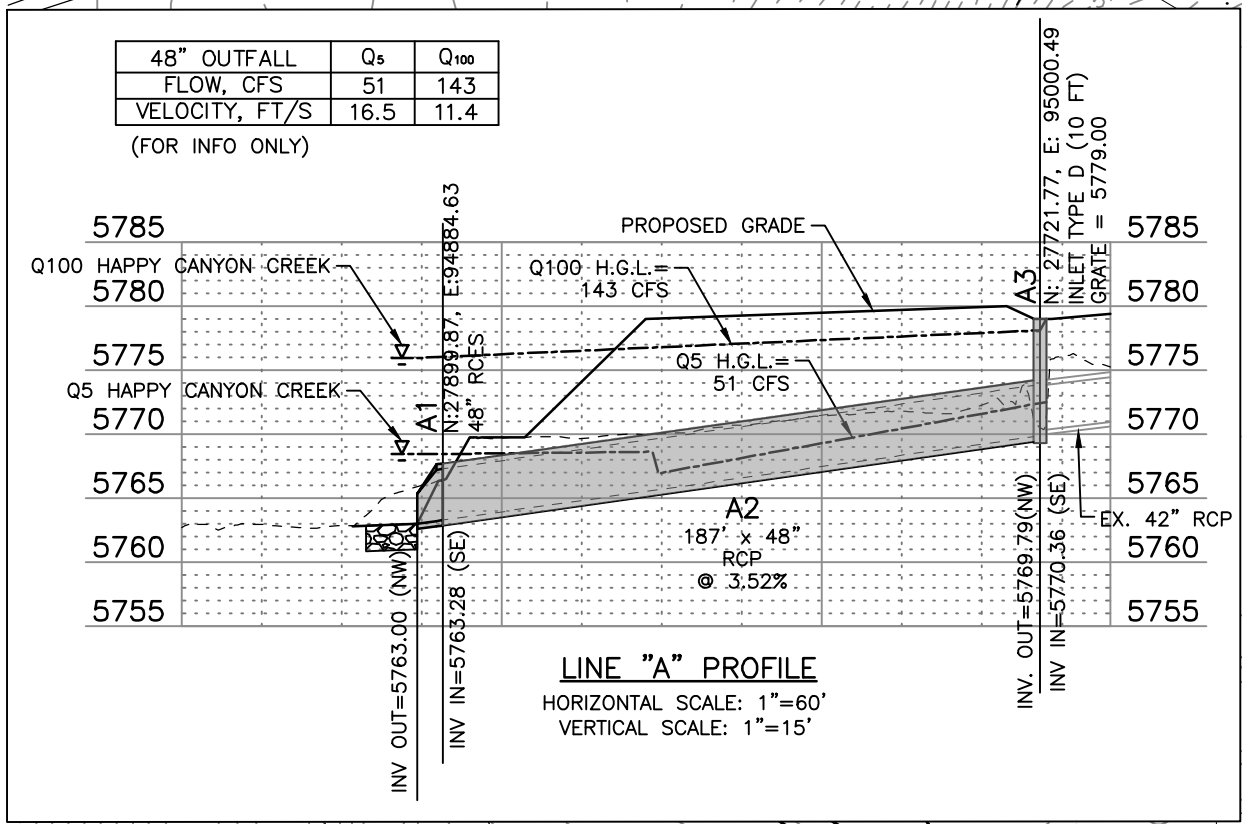
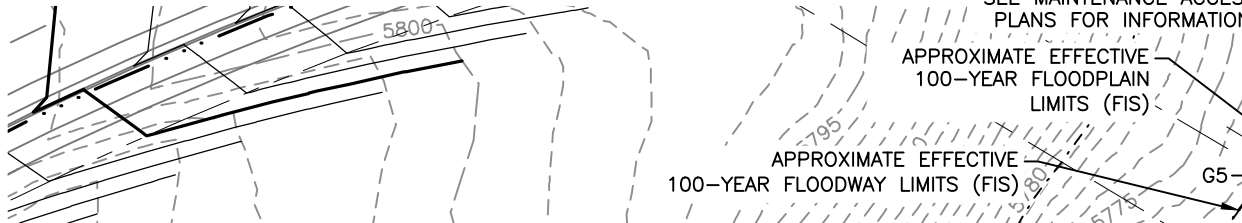
| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE CHEROKEE TRAIL POINT DATA DETAIL | | Project No./Code |
|----------------|---|---------------------|------------------|
| No Revisions: | Designer: CDT | Structure | |
| Revised: | Detailer: ZJG | Numbers | |
| Void: | Subset: Drainage | Sheets: DD-12 of 23 | Sheet Number 75 |

| I.D. | NORTHING & EASTING | ITEM | LENGTH | PAY DEPTH | INV. IN | INV. OUT | NOTES |
|------|--------------------------|------------------|--------|-----------|---------|----------|----------------------------|
| A1 | N: 27899.87, E: 94884.63 | 48" RCES, RIPRAP | | | 5763.28 | 5763.00 | SEE DD-06 FOR DETAIL |
| A2 | | 48" RCP | 187' | | | | |
| A3 | N: 27721.77, E: 95000.49 | TYPE D INLET | | 10' | 5770.36 | 5769.79 | CONNECT TO EX. 42" RCP |
| B1 | N: 27914.54, E: 94715.62 | | | | | 5765.00 | |
| B2 | | 8" PLASTIC PIPE | 27' | | | | |
| B3 | N: 27926.90, E: 94693.26 | | | | | 5765.13 | * 45 DEGREE ELBOW/CLEANOUT |
| B4 | | 8" PLASTIC PIPE | 241' | | | | |

* ELBOW AND CLEANOUT ARE INCLUDED IN THE COST OF THE PIPE.

NOTES:

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- SEE DD-12 FOR POINT DATA.



LEGEND

- TOP OF CUT
- - - - - TOE OF FILL
- WETLANDS
- SOIL RIPRAP (12 INCH & 18 INCH)
- RIPRAP (12 INCH)
- RIPRAP (18 INCH)

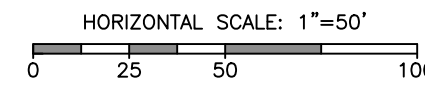
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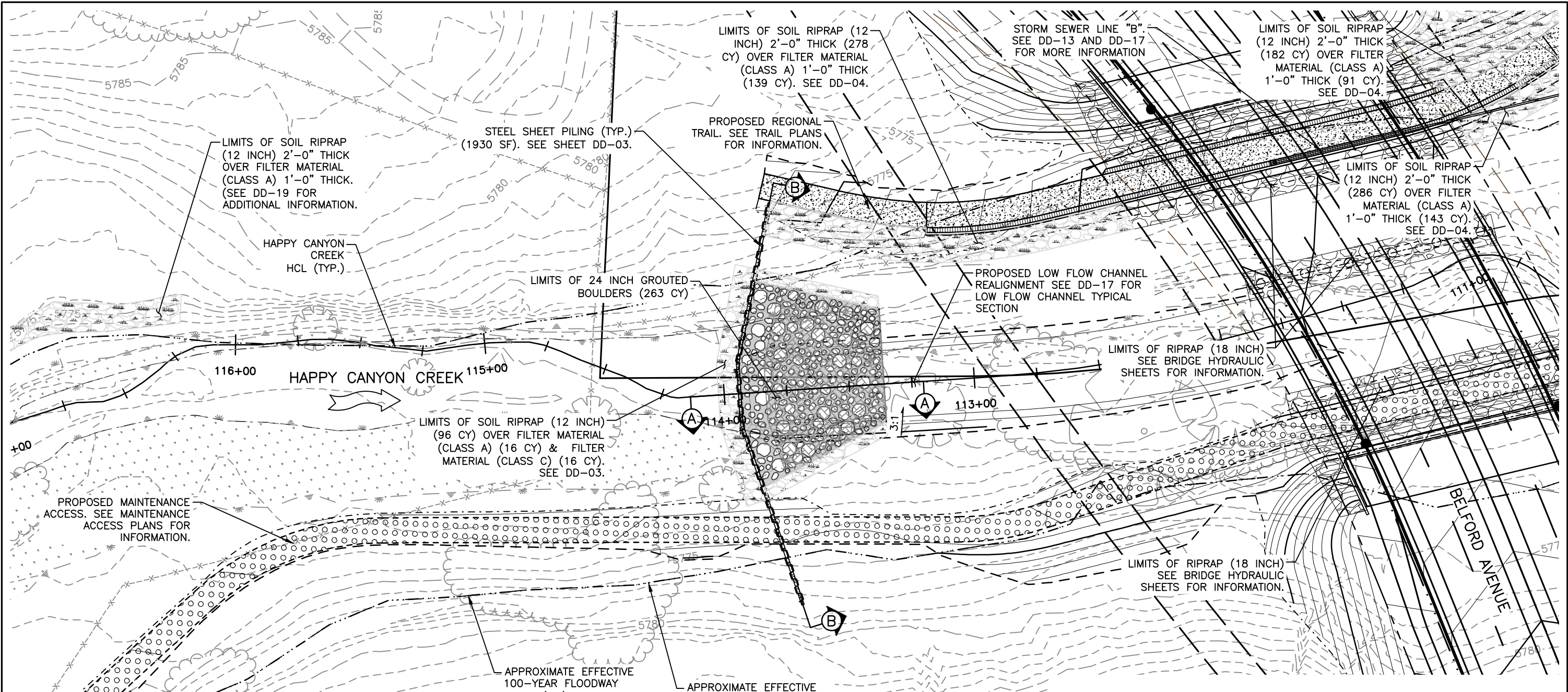
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| Sheet Revisions | | | |
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| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE CHEROKEE TRAIL GRADING DETAIL | | Project No./Code |
|----------------|--|---------------------|------------------|
| No Revisions: | Designer: CDT | Structure Numbers | |
| Revised: | Detailer: ZJG | | |
| Void: | Subset: Drainage | Sheets: DD-13 of 23 | Sheet Number 76 |


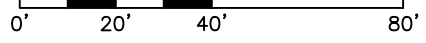




- NOTES:**
1. SEE SHEET DD-16 FOR DROP NO. 1 POINT DATA.
 2. SEE SHEET DD-15 FOR SECTIONS A AND B.
 3. SEE SHEET DD-04 FOR SOIL RIPRAP DETAILS.
 4. SEE SHEET DD-05 FOR GROUTED BOULDER DETAILS.
 5. SEE UTILITY PLANS FOR ADDITIONAL INFORMATION
 6. UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.

LEGEND

- TOP OF CUT
- - - - - TOE OF FILL
- [Symbol] WETLANDS
- [Symbol] SOIL RIPRAP (12 INCH)
- [Symbol] RIPRAP (18 INCH)
- [Symbol] 24" GROUTED BOULDERS
- [Symbol] 24" GROUTED BOULDERS (BURIED)


 HORIZONTAL SCALE: 1"=40'


Print Date: 6/18/2021 8:52:56 AM
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| Sheet Revisions | | | |
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| Date | Comments | Initials | |
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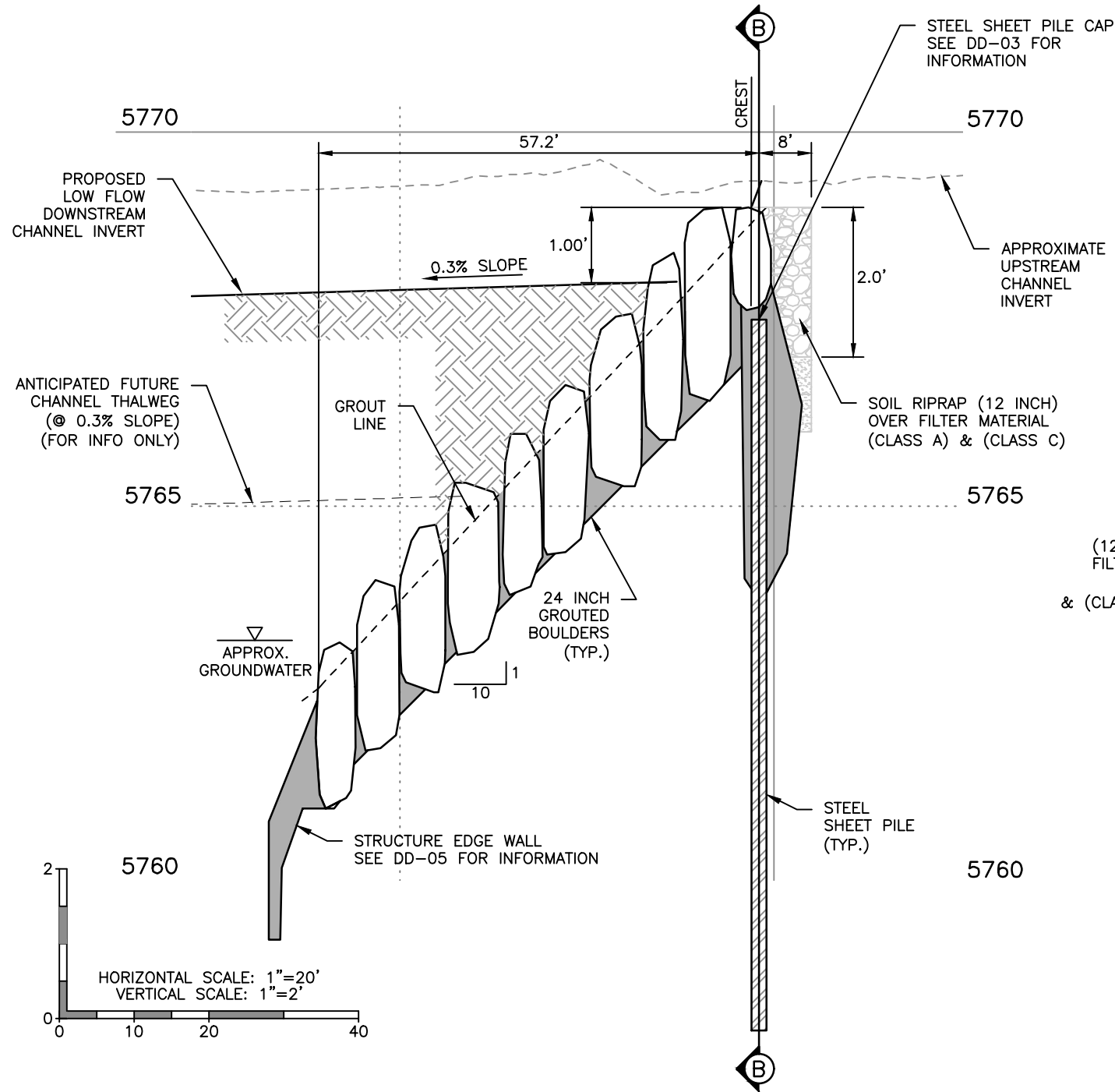
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| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE DROP NO. 1 PLAN | | Project No./Code |
| No Revisions: | Designer: CDT | Structure Numbers | |
| Revised: | Detailer: ZJG | Sheets: DD-14 of 23 | Sheet Number 77 |
| Void: | Subset: Drainage | | |

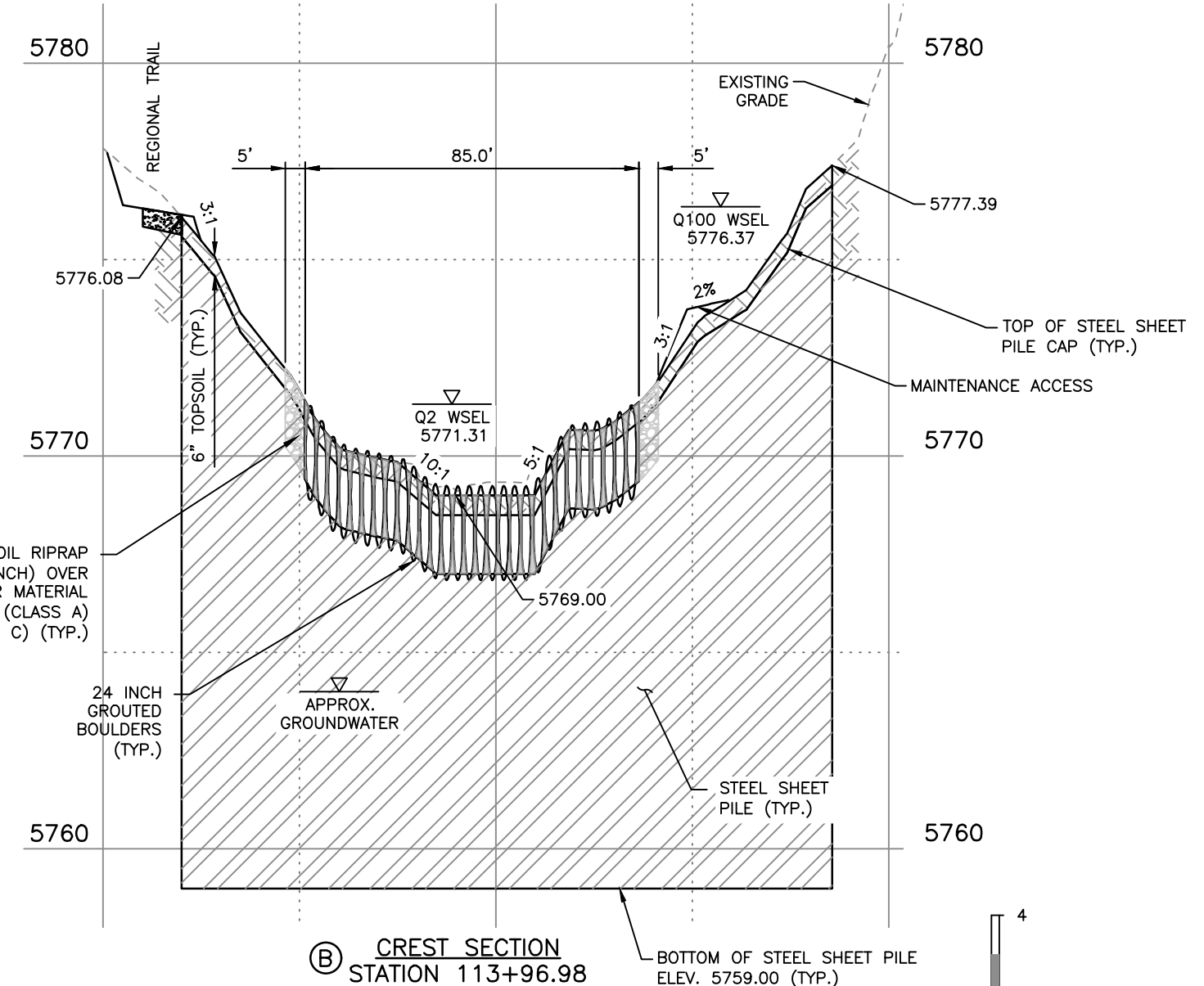
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NOTES

- UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.
- SEE UTILITY PLANS FOR ADDITIONAL INFORMATION.



(A) **GRouted BOULDER DROP NO. 1 PROFILE**
STA 113+39.80 TO 114+04.98



(B) **CREST SECTION**
STATION 113+96.98

HAPPY CANYON CREEK HYDRAULICS

| |
|-----------------------------|
| Q100= 8,303 C.F.S |
| Q100 VELOCITY = 14.17 F.P.S |
| FROUDE No.=0.93 |
| FOR INFO ONLY |

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| FELSBURG HOLT & ULLEVIG |
| 6400 South Fiddlers Green Circle, Suite 1500 Greenwood Village, CO 80111 Phone: 303.721.1440 www.FHUENG.com |

| Sheet Revisions | | | |
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| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE DROP NO. 1 PROFILE/DETAILS | | Project No./Code |
| No Revisions: | Designer: CDT | Structure Numbers | |
| Revised: | Detailer: ZJG | | |
| Void: | Subset: Drainage | Sheets: DD-15 of 23 | Sheet Number 78 |

HAPPY CANYON CREEK DROP STRUCTURE NO. 1 STEEL SHEET PILE CUTOFF WALL POINT DATA

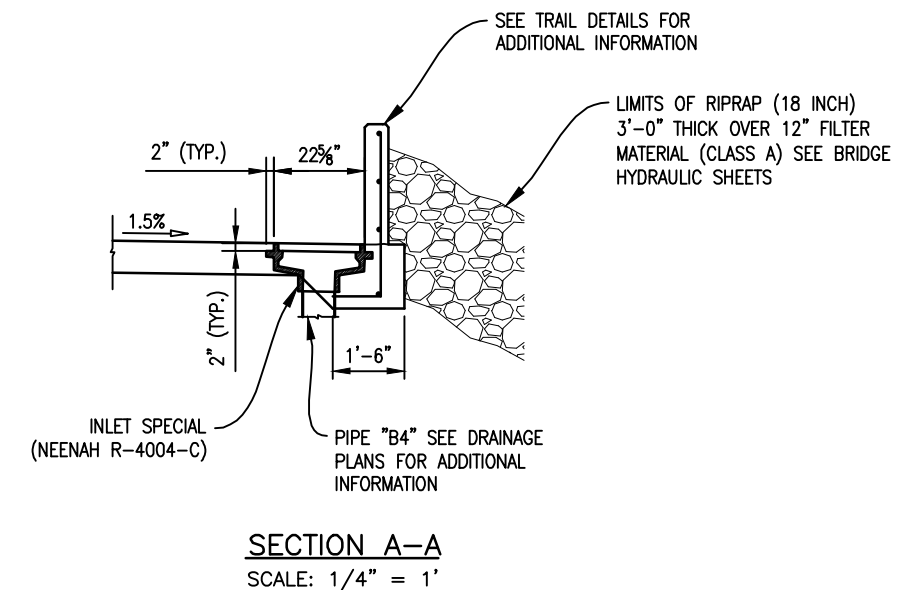
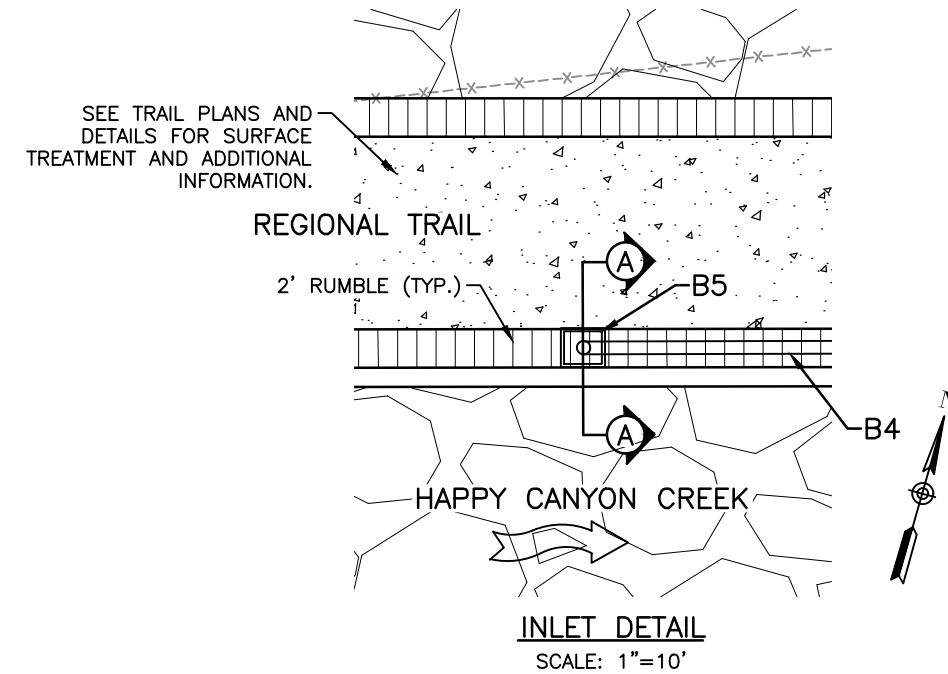
| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|----------|----------|-----------|--|
| W1 | 27675.42 | 94283.50 | 5777.39 | STEEL SHEET PILE WALL - TOP OF STEEL CAP EL. |
| W2 | 27745.87 | 94255.72 | 5767.00 | STEEL SHEET PILE WALL - TOP OF STEEL CAP EL. |
| W3 | 27770.71 | 94252.88 | 5767.00 | STEEL SHEET PILE WALL - TOP OF STEEL CAP EL. |
| W4 | 27834.84 | 94262.40 | 5776.14 | STEEL SHEET PILE WALL - TOP OF STEEL CAP EL. |

HAPPY CANYON CREEK DROP STRUCTURE NO. 1 GROUTED BOULDER POINT DATA

| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|----------|----------|-----------|--|
| GB1 | 27721.52 | 94265.85 | 5771.33 | 24 INCH GROUTED BOULDER - TOP OF BOULDER EL. |
| GB2 | 27745.93 | 94256.22 | 5769.00 | 24 INCH GROUTED BOULDER - TOP OF BOULDER EL. |
| GB3 | 27770.77 | 94253.37 | 5769.00 | 24 INCH GROUTED BOULDER - TOP OF BOULDER EL. |
| GB4 | 27803.26 | 94258.21 | 5771.31 | 24 INCH GROUTED BOULDER - TOP OF BOULDER EL. |
| GB5 | 27794.60 | 94308.20 | 5763.28 | 24 INCH GROUTED BOULDER - TOP OF BOULDER EL. |
| GB6 | 27749.89 | 94313.32 | 5763.28 | 24 INCH GROUTED BOULDER - TOP OF BOULDER EL. |
| GB7 | 27748.38 | 64266.00 | 5768.00 | 24 INCH GROUTED BOULDER - TOP OF BOULDER EL. |
| GB8 | 27770.60 | 94263.46 | 5768.00 | 24 INCH GROUTED BOULDER - TOP OF BOULDER EL. |

HAPPY CANYON CREEK DROP STRUCTURE NO. 1 SOIL RIPRAP POINT DATA

| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|----------|----------|-----------|--|
| SR1 | 27821.75 | 94260.96 | 5774.00 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR2 | 27816.88 | 94288.38 | 5772.05 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR3 | 27814.14 | 94331.42 | 5770.00 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR4 | 27821.34 | 94373.78 | 5769.37 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR5 | 27831.26 | 94408.21 | 5769.24 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR6 | 27713.51 | 94259.36 | 5772.32 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR7 | 27744.91 | 94247.28 | 5770.17 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR8 | 27769.75 | 94244.43 | 5769.27 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR9 | 27809.53 | 94250.06 | 5772.74 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR10 | 27808.21 | 94258.94 | 5772.14 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR11 | 27799.78 | 94307.61 | 5770.41 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR12 | 27794.60 | 94308.20 | 5770.01 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR13 | 27749.89 | 94313.32 | 5770.02 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR14 | 27744.44 | 94313.95 | 5770.34 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |
| SR15 | 27716.81 | 94267.71 | 5771.86 | SOIL RIPRAP (12 INCH) - FINISHED GRADE EL. |



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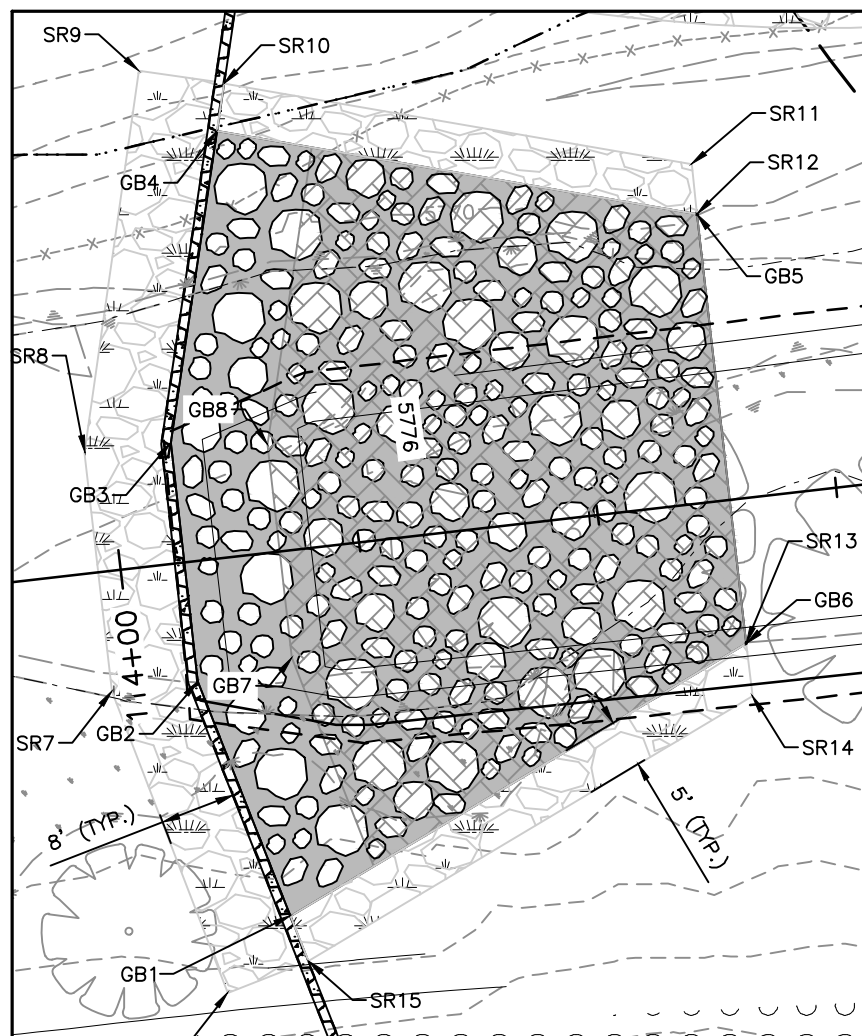
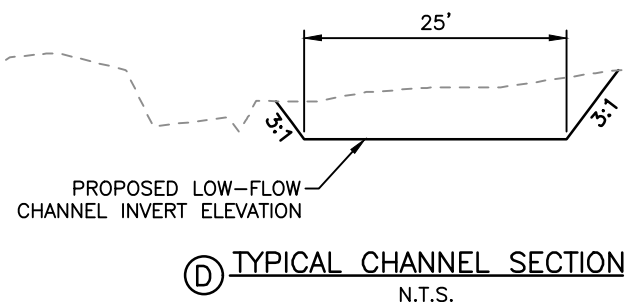
| Sheet Revisions | | | |
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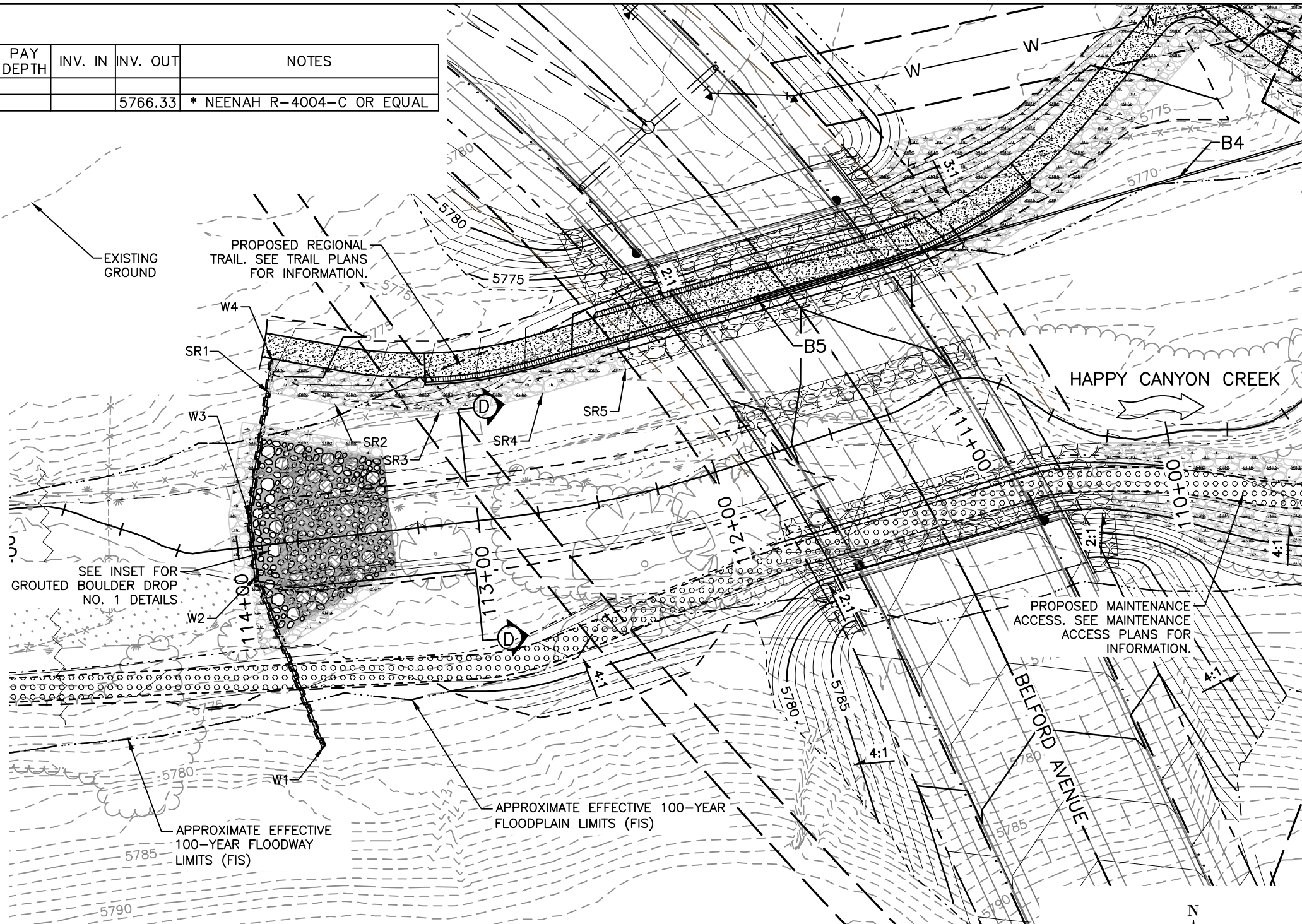
| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE DROP NO. 1 POINT DATA DETAIL | | Project No./Code |
|----------------|---|---------------------|------------------|
| No Revisions: | Designer: CDT | Structure Numbers | |
| Revised: | Detailer: SMT | | |
| Void: | Subset: Drainage | Sheets: DD-16 of 23 | Sheet Number 79 |

| I.D. | NORTHING & EASTING | ITEM | LENGTH | PAY DEPTH | INV. IN | INV. OUT | NOTES |
|------|--------------------------|-----------------|--------|-----------|---------|----------|----------------------------|
| B4 | | 8" PLASTIC PIPE | 241' | | | | |
| B5 | N: 27860.43, E: 94462.48 | INLET SPECIAL | | | | 5766.33 | * NEENAH R-4004-C OR EQUAL |

* SEE INLET SPECIAL DETAIL ON SHEET DD-16

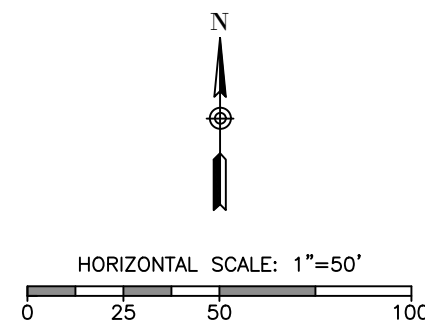


DROP NO. 1 DETAILS
HORIZONTAL SCALE: 1"=20'



NOTES:

- UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.
- SEE SHEET DD-16 FOR DROP NO. 1 POINT DATA.



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| File Name: H115360-01DROP16Grading Drop 1.dwg | |
| Horizontal Scale: 1"=10' Vertical Scale: N.T.S. | |
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| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE DROP NO. 1 GRADING DETAIL | | Project No./Code |
| No Revisions: | Designer: CDT | Structure Numbers | |
| Revised: | Detailer: ZJG | | |
| Void: | Subset: Drainage | Sheets: DD-17 of 23 | Sheet Number 80 |

HAPPY CANYON CREEK DROP STRUCTURE NO. 2 STEEL SHEET PILE CUTOFF WALL POINT DATA

| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|----------|----------|-----------|--|
| W1 | 27522.92 | 93938.45 | 5780.50 | STEEL SHEET PILE WALL – TOP OF STEEL CAP EL. |
| W2 | 27627.11 | 93827.62 | 5770.47 | STEEL SHEET PILE WALL – TOP OF STEEL CAP EL. |
| W3 | 27648.48 | 93814.39 | 5770.47 | STEEL SHEET PILE WALL – TOP OF STEEL CAP EL. |
| W4 | 27680.82 | 93804.64 | 5780.50 | STEEL SHEET PILE WALL – TOP OF STEEL CAP EL. |

HAPPY CANYON CREEK DROP STRUCTURE NO. 2 CHANNEL REVETMENT SOIL RIPRAP POINT DATA

| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|----------|----------|-----------|--|
| CR1 | 27384.46 | 93620.98 | 5776.96 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR2 | 27409.72 | 93613.85 | 5776.89 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR3 | 27455.43 | 93616.23 | 5776.93 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR4 | 27504.52 | 93635.29 | 5777.00 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR5 | 27521.43 | 93646.91 | 5777.11 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR6 | 27547.94 | 93676.17 | 5776.07 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR7 | 27561.71 | 93693.16 | 5776.00 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR8 | 27566.68 | 93697.18 | 5776.04 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR9 | 27681.39 | 93814.88 | 5776.99 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR10 | 27699.52 | 93838.94 | 5776.86 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR11 | 27713.46 | 93854.66 | 5777.09 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR12 | 27724.95 | 93872.92 | 5776.90 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR13 | 27732.94 | 93886.34 | 5777.00 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR14 | 27743.41 | 93902.84 | 5777.05 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR15 | 27754.96 | 93929.13 | 5776.62 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR16 | 27765.52 | 93944.63 | 5775.94 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR17 | 27769.88 | 93961.99 | 5775.77 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR18 | 27781.73 | 93978.73 | 5775.97 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR19 | 27782.09 | 94006.03 | 5775.95 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| CR20 | 27787.18 | 94029.84 | 5776.06 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |

HAPPY CANYON CREEK DROP STRUCTURE NO. 2 GROUTED BOULDER POINT DATA

| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|----------|----------|-----------|--|
| GB1 | 27602.62 | 93854.40 | 5774.52 | 24 INCH GROUTED BOULDER – TOP OF BOULDER EL. |
| GB2 | 27618.57 | 93837.43 | 5772.47 | 24 INCH GROUTED BOULDER – TOP OF BOULDER EL. |
| GB3 | 27655.65 | 93812.75 | 5772.47 | 24 INCH GROUTED BOULDER – TOP OF BOULDER EL. |
| GB4 | 27669.08 | 93808.70 | 5774.43 | 24 INCH GROUTED BOULDER – TOP OF BOULDER EL. |
| GB5 | 27673.96 | 93851.91 | 5768.00 | 24 INCH GROUTED BOULDER – TOP OF BOULDER EL. |
| GB6 | 27644.22 | 93870.17 | 5768.00 | 24 INCH GROUTED BOULDER – TOP OF BOULDER EL. |

HAPPY CANYON CREEK DROP STRUCTURE NO. 2 DROP STRUCTURE SOIL RIPRAP POINT DATA

| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|----------|----------|-----------|--|
| SR1 | 27592.36 | 93852.18 | 5775.35 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| SR2 | 27622.59 | 93820.43 | 5772.58 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| SR3 | 27644.06 | 93807.13 | 5772.41 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| SR4 | 27671.40 | 93798.60 | 5779.30 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| SR5 | 27675.20 | 93818.23 | 5773.98 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| SR6 | 27678.68 | 93848.83 | 5773.30 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| SR7 | 27673.98 | 93851.74 | 5773.00 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| SR8 | 27644.22 | 93870.17 | 5772.27 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| SR9 | 27638.87 | 93873.48 | 5773.38 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| SR10 | 27598.92 | 93858.34 | 5775.22 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |

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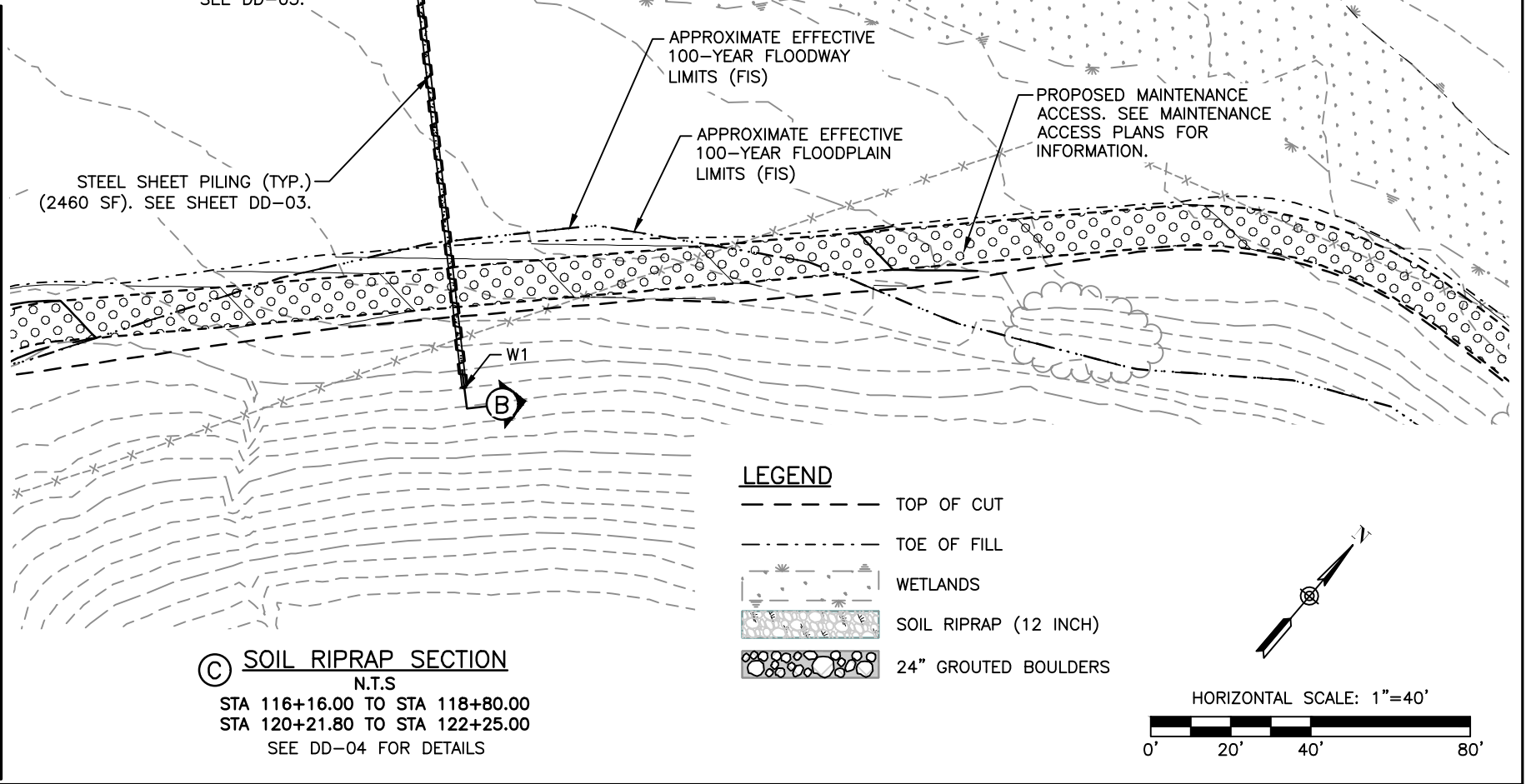
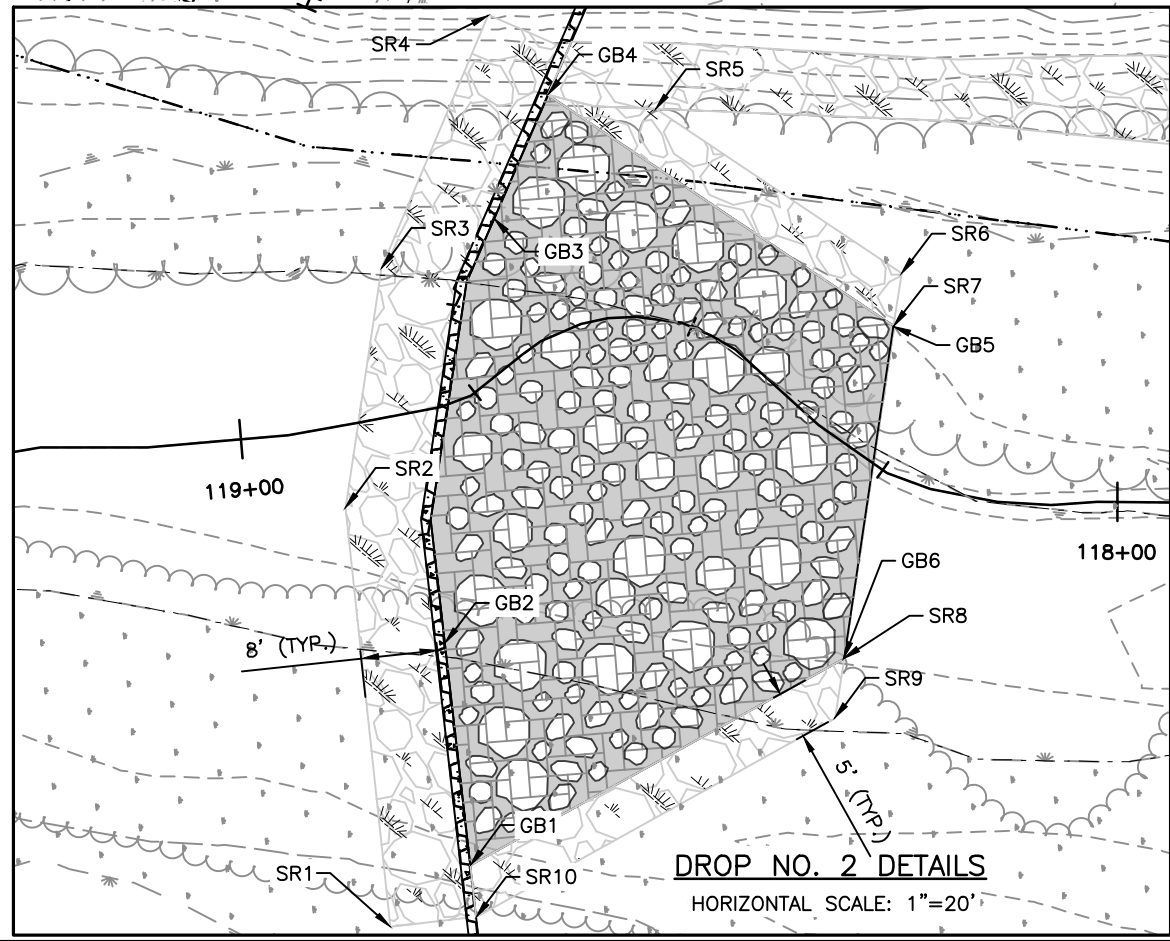
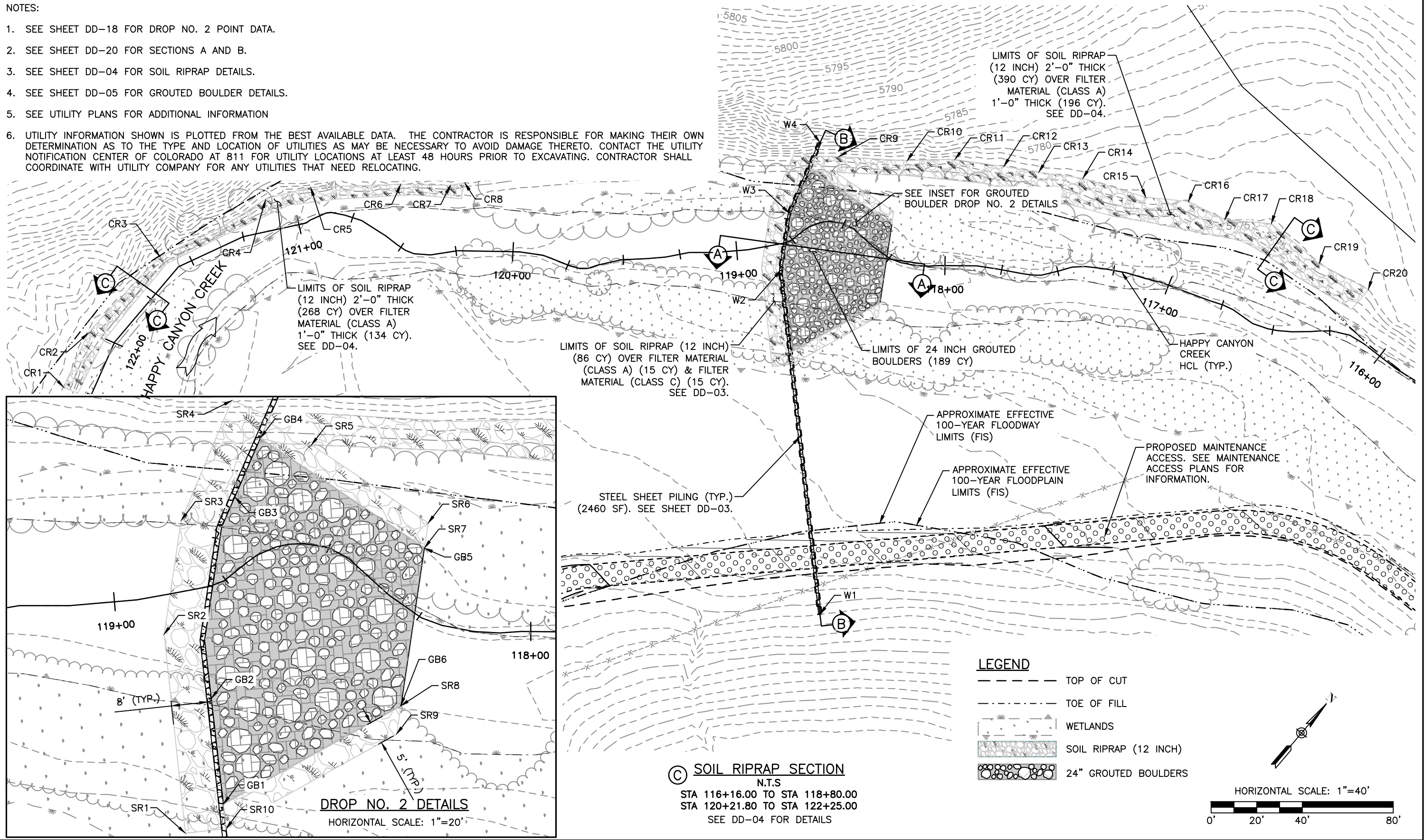


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| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE DROP NO. 2 POINT DATA DETAIL | | Project No./Code |
| No Revisions: | Designer: CDT | Structure | |
| Revised: | Detailer: ZJG | Numbers | |
| Void: | Subset: Drainage | Sheets: DD-18 of 23 | Sheet Number 81 |

NOTES:

1. SEE SHEET DD-18 FOR DROP NO. 2 POINT DATA.
2. SEE SHEET DD-20 FOR SECTIONS A AND B.
3. SEE SHEET DD-04 FOR SOIL RIPRAP DETAILS.
4. SEE SHEET DD-05 FOR GROUTED BOULDER DETAILS.
5. SEE UTILITY PLANS FOR ADDITIONAL INFORMATION
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LEGEND

- TOP OF CUT
- TOE OF FILL
- WETLANDS
- SOIL RIPRAP (12 INCH)
- 24" GROUTED BOULDERS

HORIZONTAL SCALE: 1"=40'

© SOIL RIPRAP SECTION
N.T.S.
STA 116+16.00 TO STA 118+80.00
STA 120+21.80 TO STA 122+00.00
SEE DD-04 FOR DETAILS

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Print Date: 6/18/2021 8:55:16 AM
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Horizontal Scale: 1"=20' Vertical Scale: N.T.S.

| Sheet Revisions | | | |
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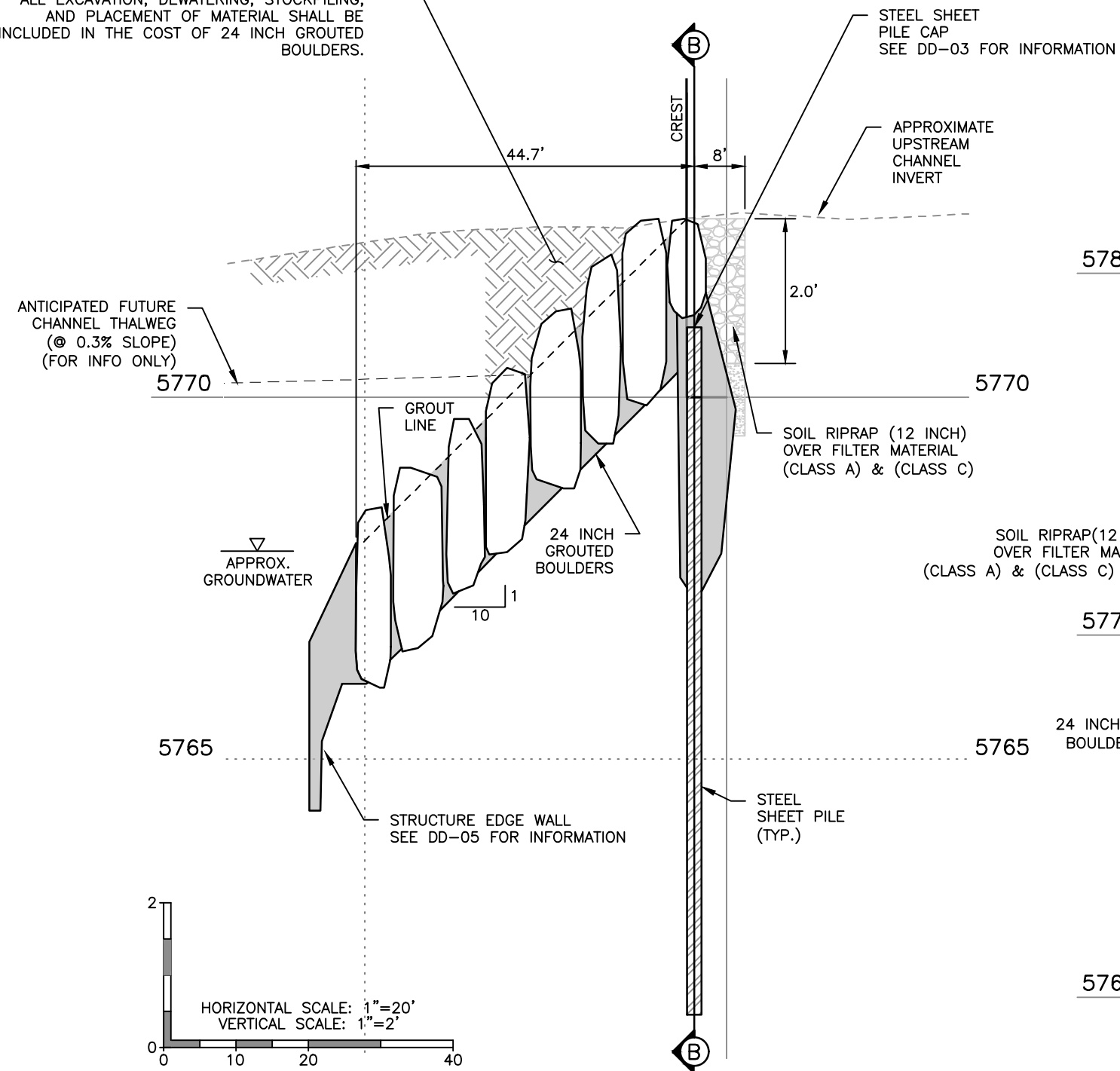
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|----------------|--|---------------------|------------------|
| No Revisions: | Designer: CDT | Structure Numbers | |
| Revised: | Detailer: ZJG | | |
| Void: | Subset: Drainage | Sheets: DD-19 of 23 | Sheet Number 82 |

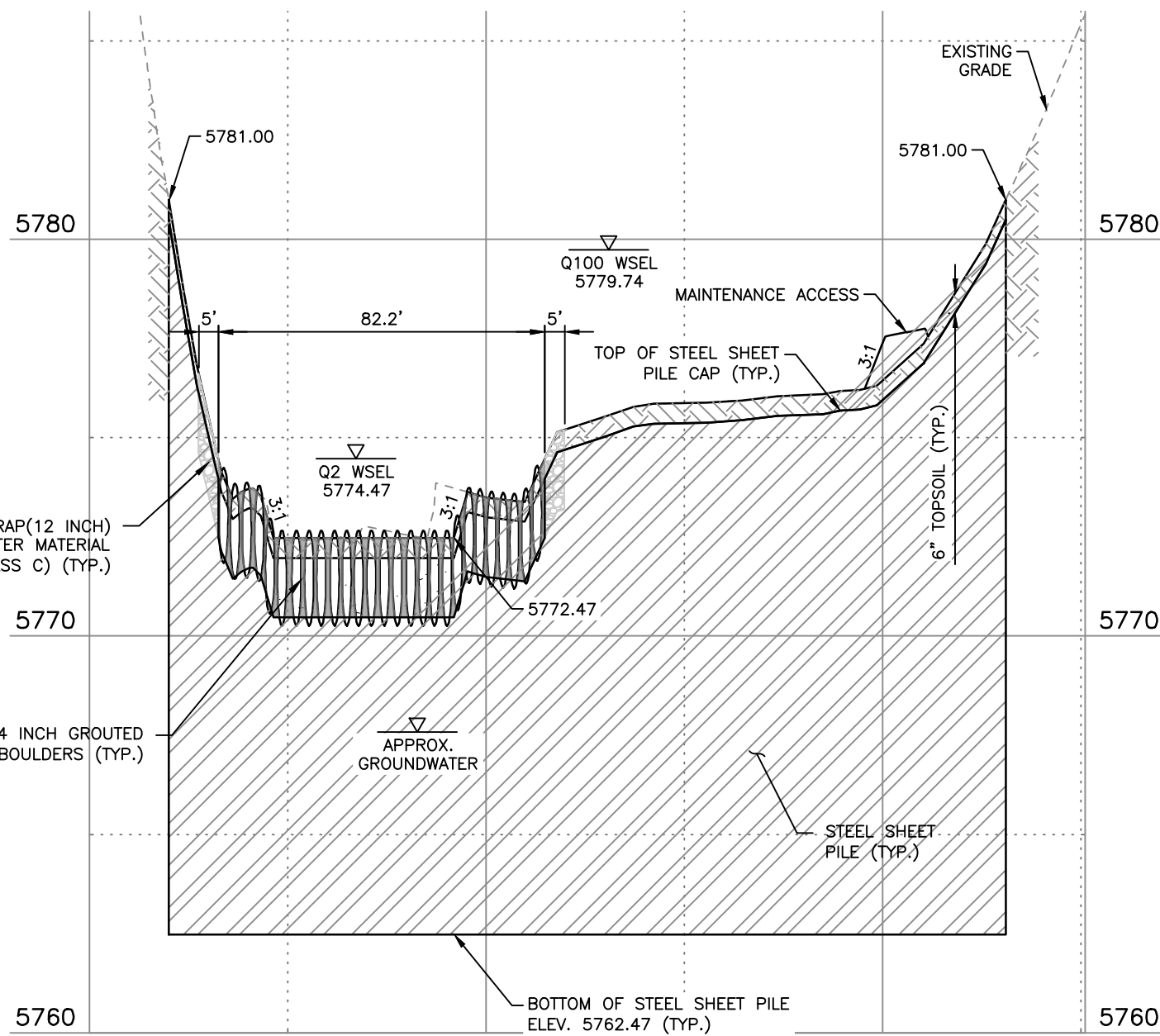
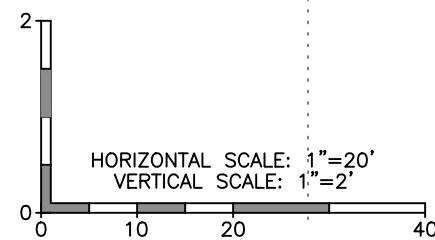
NOTES

- UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.
- SEE UTILITY PLANS FOR ADDITIONAL INFORMATION.

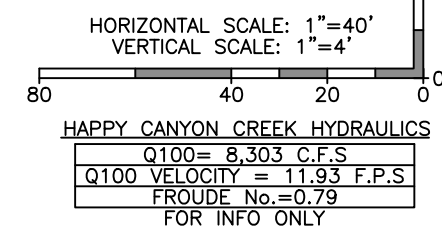
MATERIAL SHALL BE EXCAVATED FOR 24 INCH GROUTED BOULDERS AND STOCKPILED. STOCKPILED MATERIAL SHALL BE REAPPLIED AFTER DROP STRUCTURE IS CONSTRUCTED. ALL EXCAVATION, DEWATERING, STOCKPILING, AND PLACEMENT OF MATERIAL SHALL BE INCLUDED IN THE COST OF 24 INCH GROUTED BOULDERS.



(A) GROUTED BOULDER DROP NO. 2 PROFILE
STA 118+49.81 TO 119+02.49



(B) CREST SECTION
STATION 118+94.49



DROP STRUCTURE NO. 2

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| Date | Comments | Initials |
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| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE DROP NO. 2 PROFILE/DETAILS | | Project No./Code |
| No Revisions: | Designer: CDT | Structure Numbers | |
| Revised: | Detailer: ZJG | | |
| Void: | Subset: Drainage | Sheets: DD-20 of 23 | Sheet Number 83 |

HAPPY CANYON CREEK HYDRAULICS
Q100= 8,303 C.F.S
Q100 VELOCITY = 11.93 F.P.S
FROUDE No.=0.79
FOR INFO ONLY

HAPPY CANYON CREEK DROP STRUCTURE NO. 3 STEEL SHEET PILE CUTOFF WALL POINT DATA

| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|----------|----------|-----------|--|
| W1 | 27309.13 | 93921.77 | 5783.50 | STEEL SHEET PILE WALL – TOP OF STEEL CAP EL. |
| W2 | 27304.40 | 93917.95 | 5780.00 | STEEL SHEET PILE WALL – TOP OF STEEL CAP EL. |
| W3 | 27208.88 | 93840.75 | 5779.50 | STEEL SHEET PILE WALL – TOP OF STEEL CAP EL. |
| W4 | 27201.63 | 93834.88 | 5775.63 | STEEL SHEET PILE WALL – TOP OF STEEL CAP EL. |
| W5 | 27174.38 | 93805.42 | 5775.06 | STEEL SHEET PILE WALL – TOP OF STEEL CAP EL. |
| W6 | 27143.34 | 93746.45 | 5777.76 | STEEL SHEET PILE WALL – TOP OF STEEL CAP EL. |
| W7 | 27143.34 | 93585.23 | 5783.50 | STEEL SHEET PILE WALL – TOP OF STEEL CAP EL. |

HAPPY CANYON CREEK DROP STRUCTURE NO. 3 BANK GRADING POINT DATA

| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|----------|----------|-----------|--------------------|
| G1 | 27326.07 | 93919.34 | 5787.00 | FINISHED GRADE EL. |
| G2 | 27306.20 | 93950.35 | 5787.00 | FINISHED GRADE EL. |
| G3 | 27290.13 | 93942.45 | 5782.50 | FINISHED GRADE EL. |
| G4 | 27195.58 | 93861.83 | 5780.00 | FINISHED GRADE EL. |
| G5 | 27228.32 | 93816.93 | 5780.00 | FINISHED GRADE EL. |
| G6 | 27270.93 | 93781.27 | 5780.00 | FINISHED GRADE EL. |
| G7 | 27367.70 | 93861.41 | 5782.50 | FINISHED GRADE EL. |
| G8 | 27322.50 | 93895.78 | 5782.50 | FINISHED GRADE EL. |
| G9 | 27343.38 | 93895.03 | 5786.00 | FINISHED GRADE EL. |

HAPPY CANYON CREEK DROP STRUCTURE NO. 3 GROUTED BOULDER POINT DATA


| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|----------|----------|-----------|--|
| GB1 | 27168.76 | 93793.68 | 5778.19 | 24 INCH GROUTED BOULDER – TOP OF BOULDER EL. |
| GB2 | 27173.42 | 93802.52 | 5777.14 | 24 INCH GROUTED BOULDER – TOP OF BOULDER EL. |
| GB3 | 27201.27 | 93833.76 | 5777.14 | 24 INCH GROUTED BOULDER – TOP OF BOULDER EL. |
| GB4 | 27203.54 | 93835.78 | 5778.40 | 24 INCH GROUTED BOULDER – TOP OF BOULDER EL. |
| GB5 | 27234.88 | 93801.59 | 5772.49 | 24 INCH GROUTED BOULDER – TOP OF BOULDER EL. |
| GB6 | 27213.15 | 93778.09 | 5772.49 | 24 INCH GROUTED BOULDER – TOP OF BOULDER EL. |

HAPPY CANYON CREEK DROP STRUCTURE NO. 3 SOIL RIPRAP POINT DATA

| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
|-------|----------|----------|-----------|--|
| SR1 | 27140.46 | 93759.22 | 5778.01 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| SR2 | 27168.09 | 93811.14 | 5777.07 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| SR3 | 27195.43 | 93840.70 | 5777.55 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| SR4 | 27201.78 | 93845.94 | 5779.67 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| SR5 | 27238.29 | 93805.27 | 5779.59 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| SR6 | 27234.88 | 93801.59 | 5778.14 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| SR7 | 27213.15 | 93778.09 | 5777.80 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |
| SR8 | 27199.57 | 93763.41 | 5777.80 | SOIL RIPRAP (12 INCH) – FINISHED GRADE EL. |

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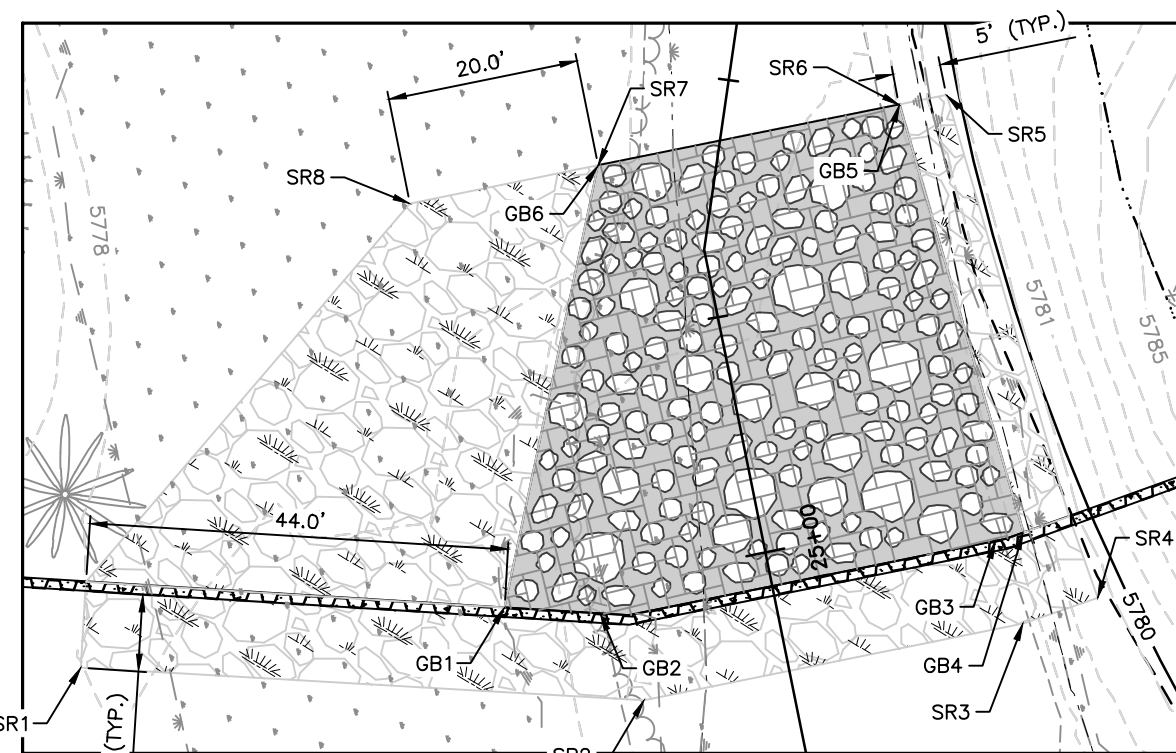
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| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE DROP NO. 3 POINT DATA DETAIL | | Project No./Code |
| No Revisions: | Designer: CDT | Structure | |
| Revised: | Detailer: ZJG | Numbers | |
| Void: | Subset: Drainage | Sheets: DD-21 of 23 | Sheet Number 84 |

NOTES:

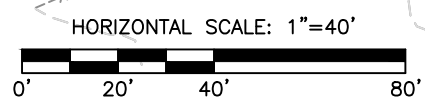
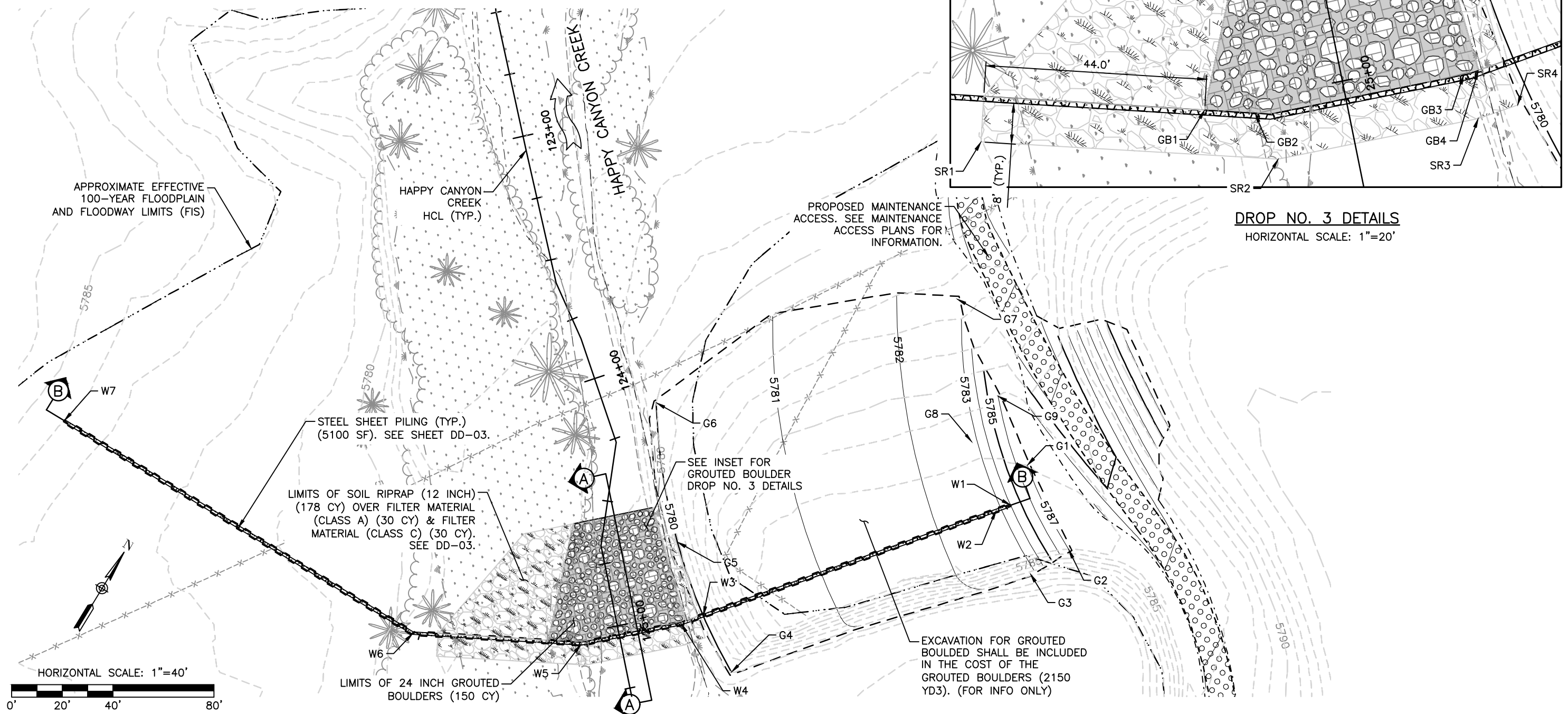
1. SEE SHEET DD-21 FOR DROP NO. 3 POINT DATA.
2. SEE SHEET DD-23 FOR SECTIONS A & B.
3. SEE SHEET DD-04 FOR SOIL RIPRAP DETAILS.
4. SEE SHEET DD-05 FOR GROUTED BOULDER DETAILS.
5. SEE UTILITY PLANS FOR ADDITIONAL INFORMATION
6. UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.

LEGEND

- TOP OF CUT
- TOE OF FILL
- [Symbol] WETLANDS
- [Symbol] SOIL RIPRAP (12 INCH)
- [Symbol] 24" GROUTED BOULDERS (BURIED)



DROP NO. 3 DETAILS
HORIZONTAL SCALE: 1"=20'



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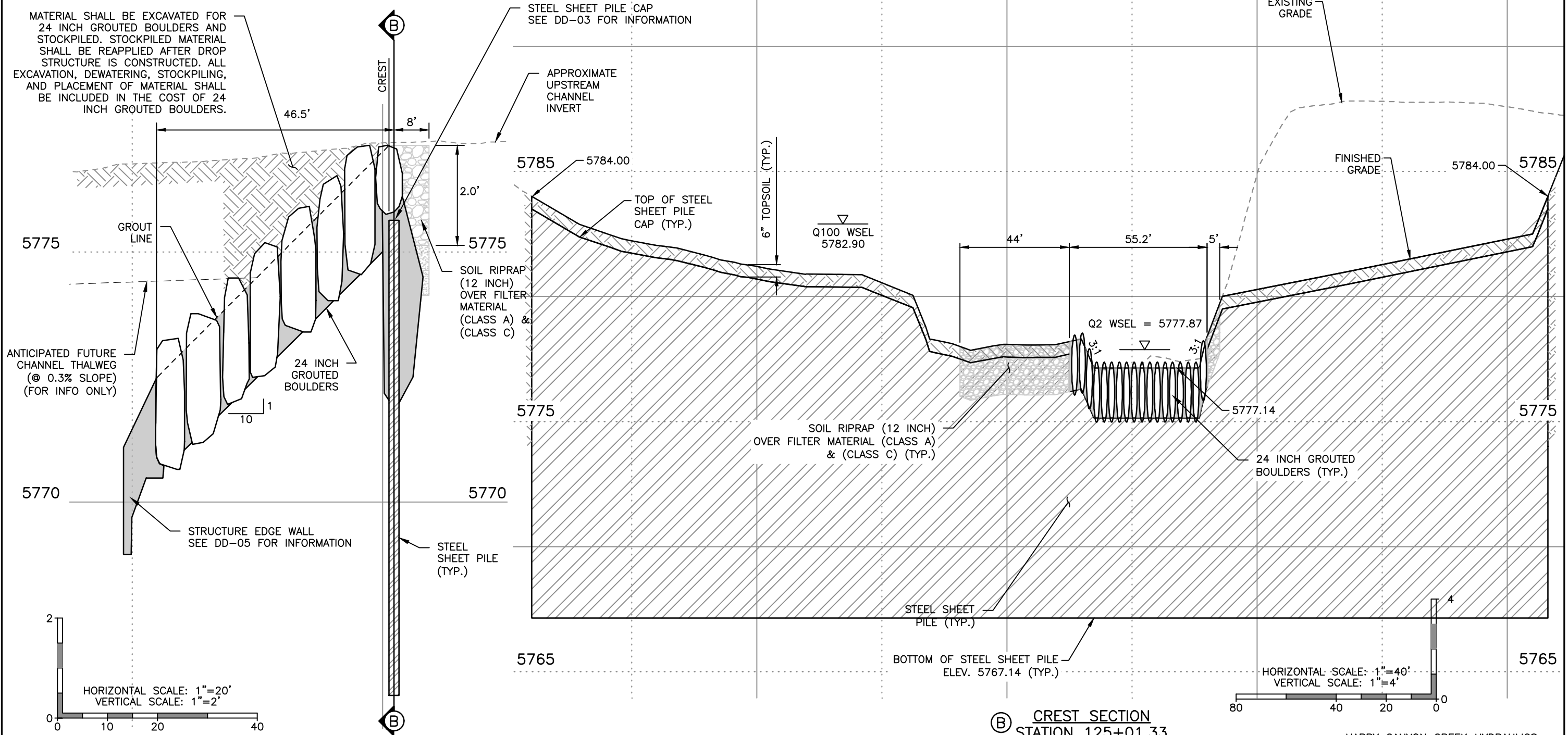
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| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE DROP NO. 3 PLAN | | Project No./Code |
| No Revisions: | Designer: CDT | Structure Numbers | |
| Revised: | Detailer: ZJG | | |
| Void: | Subset: Drainage | Sheets: DD-22 of 23 | Sheet Number 85 |

NOTES

- UTILITY INFORMATION SHOWN IS PLOTTED FROM THE BEST AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO EXCAVATING. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY UTILITIES THAT NEED RELOCATING.
- SEE UTILITY PLANS FOR ADDITIONAL INFORMATION.

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Ⓐ GROUTED BOULDER DROP NO. 3 PROFILE
STA 124+54.81 TO 125+09.33

DROP STRUCTURE NO. 3

Ⓑ CREST SECTION
STATION 125+01.33

HAPPY CANYON CREEK HYDRAULICS
Q100= 8,303 C.F.S
Q100 VELOCITY = 10.80 F.P.S
FROUDE No.=0.77
FOR INFO ONLY

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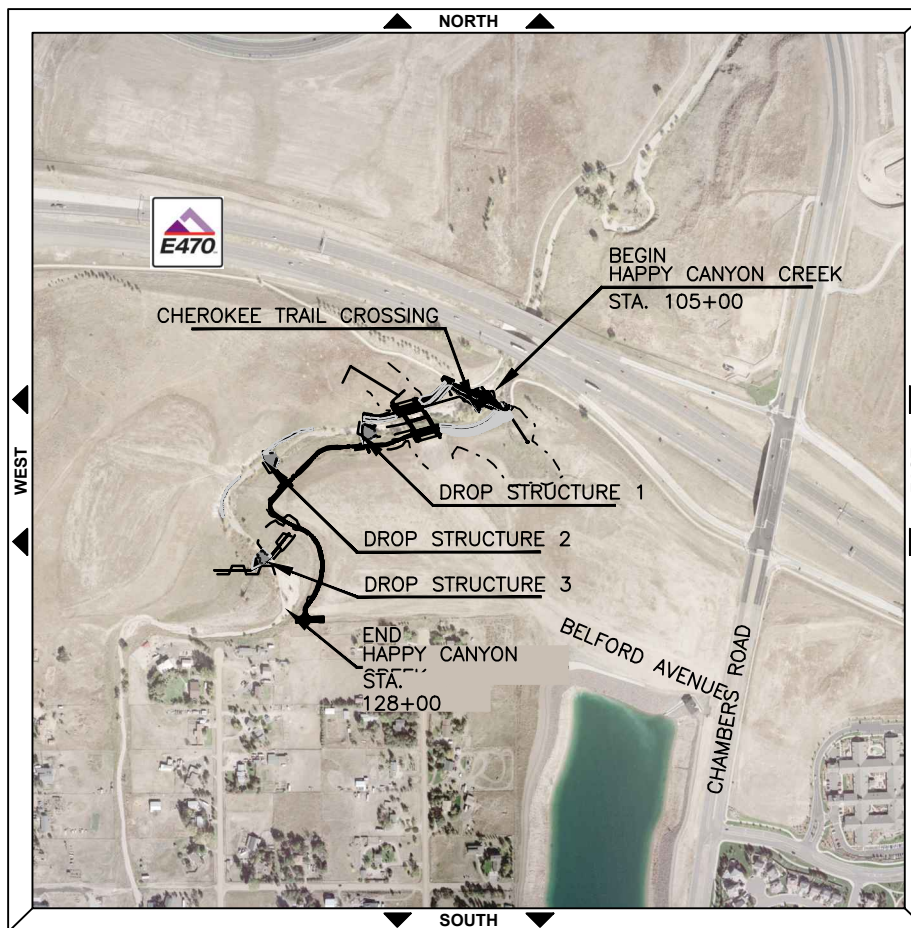
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|----------------|---|---------------------|------------------|
| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE DROP NO. 3 PROFILE/DETAILS | | Project No./Code |
| No Revisions: | Designer: CDT | Structure Numbers | |
| Revised: | Detailer: ZJG | | |
| Void: | Subset: Drainage | Sheets: DD-23 of 23 | Sheet Number 86 |



CONSTRUCTION PLANS
CONSTRUCTION BEST MANAGEMENT PRACTICES
BELFORD AVENUE BRIDGE AND HAPPY CANYON CREEK
TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO

SCALE OF ORIGINAL DRAWINGS

ON PLAN 1" = 80'



INDEX OF SHEETS

| SHEET NO. | SUBSET SHEETS | DESCRIPTION |
|-----------|---------------|--|
| 87 | EL-1 | CBMP TITLE SHEET |
| 88 | ET-1 | TABULATION OF EROSION CONTROL QUANTITIES |
| 89-90 | EI-1 TO EI-2 | INITIAL CBMP PLAN |
| 91-92 | EN-1 TO EN-2 | INTERIM CBMP PLAN |
| 93-94 | EF-1 TO EN-2 | FINAL CBMP PLAN |
| 95-129 | ED-1 TO ED-35 | CBMP STANDARD NOTES AND DETAILS |

TOWN OF PARKER APPROVALS

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWN'S STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATION. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF ANY PRIVATE ON-SITE IMPROVEMENTS WHICH MAY BE SHOWN. CONSTRUCTION CANNOT COMMENCE UNTIL ALL REQUIRED DRAINAGE/TRAFFIC REPORT(S), FINAL DEVELOPMENT PLAN(S), SPECIAL REVIEW(S), GRADING PERMIT, AND/OR OTHER PERMITS ARE COMPLETE, APPROVED AND ON FILE WITH THE TOWN OF PARKER.

| | |
|---|------|
| TOWN OF PARKER, PUBLIC WORKS DIRECTOR | DATE |
| TOWN OF PARKER, PUBLIC WORKS MANAGER – STORMWATER | DATE |
| TOWN OF PARKER, PUBLIC WORKS MANAGER – TRANSPORTATION | DATE |

BASIS OF BEARING:

THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 6, TOWNSHIP 6 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN BEING MONUMENTED AS SHOWN HEREON HAVING A BEARING OF NORTH 00°29'49" WEST, AS DETERMINED BY GPS OBSERVATION FROM NGS CONTROL POINTS IN THE COLORADO CENTRAL ZONE, STATE PLAN COORDINATE SYSTEM, TOWN OF PARKER, COUNTY OF DOUGLAS, STATE OF COLORADO.

BENCHMARKS: (COMPARK SOUTH)

SOURCE BENCHMARKS:
 DOUGLAS COUNTY BM 1.115010
 A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD.
 ELEVATION = 5752.84 (NAVD 88)

SITE BENCHMARKS:
 A NO. 5 REBAR WITH 2" ALUMINUM CAP STAMPED "LS 28286, 2001" FOUND AT THE SOUTHWEST CORNER OF SECTION 6, T6S, R66W LOCATED ON THE WEST LINE OF FIRST STREET APPROXIMATELY 1000 FEET NORTH OF ELM AVENUE.
 ELEVATION = 5845.51

A 2.5" IRON PIPE WITH 3.25" ALUMINUM CAP STAMPED "PLS 12405, 1997" FOUND AT THE SOUTHEAST CORNER OF SECTION 6, T6S, R66W LOCATED APPROXIMATELY 960 FEET NORTH OF THE CENTERLINE OF AVENTERRA PARKWAY AND APPROXIMATELY 1050 FEET WEST OF THE CENTERLINE OF CHAMBERS ROAD.
 ELEVATION = 5808.06

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| As Constructed | BELFORD-HAPPY CANYON CREEK CBMP TITLE SHEET | | Project No./Code |
| No Revisions: | Designer: CDT | Structure Numbers | |
| Revised: | Detailer: KLT | Sheets: EL-1 of 1 | Sheet Number 87 |
| Void: | Subset: EROSION | | |

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TABULATION OF EROSION CONTROL QUANTITIES

| DRAWING NUMBER | CHECK DAM CD | *CONCRETE WASHOUT STRUCTURE CWA | *VEHICLE TRACKING CONTROL VTC | *STABILIZED STAGING AREA SSA | SEEDING (NATIVE) SMC | MULCHING (WEED FREE STRAW) SMC | *CULVERT PROTECTION CP | DEWATERING D | *SEDIMENT CONTROL LOG (12 INCH) SCL | EROSION CONTROL BLANKET (STRAW/COCONUT) ECB | DIVERSION DITCH DD | CONSTRUCTION FENCE CF | SILT FENCE SF | #INLET PROTECTION AREA INLETS NOT IN PAVEMENT IPAN | ##ROUGH CUT STREET CONTROL RCSC | TEMPORARY SEDIMENT BASIN TSS | TEMPORARY STREAM CONTROL TSC | PORTABLE TOILET PROTECTION PTP |
|----------------|------------------------|---|---|--|--------------------------------|--|----------------------------------|------------------------|---|---|------------------------------|---------------------------------|-------------------------|--|---|--|--|--|
| | LF | EACH | EACH | SY | ACRE | ACRE | LF | LS | LF | SY | LF | LF | LF | EA | LF | EA | EA | EA |
| INITIAL (EI-1) | 275 | 2 | 2 | 2300 | | | 40 | | 1798 | | 312 | 8838 | 1471 | | | | 4 | 1 |
| INTERIM (EN-1) | | | | | | | 60 | 1 | 1885 | | | | | 1 | 480 | 2 | | |
| FINAL (EF-1) | | | | | 6.3 | 6.3 | | | | 7386 | | | | | | | | |
| PROJECT TOTALS | 275 | 2 | 2 | 2300 | 6.3 | 6.3 | 100 | 1 | 3683 | 7386 | 312 | 8838 | 1471 | 1 | 480 | 2 | 4 | 1 |

1. THESE QUANTITIES HAVE BEEN TAKEN FORWARD TO THE SUMMARY OF APPROXIMATE QUANTITIES.
 2. FOR DETAILS, SEE CBMP STANDARD NOTES AND DETAILS.
 3. CHECK DAMS ARE NOT TO BE REMOVED UNLESS DIRECTED BY THE PROJECT ENGINEER.
 4. MULCH TACKIFIER IS REQUIRED AND IS INCLUDED IN THE COST OF MULCHING.
 5. SEE CBMP SHEETS FOR ADDITIONAL PLACEMENT INFORMATION.
 6. LOCATION OF STOCKPILES, INCLUDING TOPSOIL, IMPORTED AGGREGATES, EXCESS MATERIALS, STORAGE AND STAGING AREAS FOR EQUIPMENT FUEL, LUBRICANT, CHEMICAL (AND OTHER MATERIALS), WASTE STORAGE, BORROW AND DISPOSAL AREAS SHALL BE LOCATED PRIOR TO CONSTRUCTION WITH IN THE DEFINED LIMITS OF CONSTRUCTION BY THE PROJECT ENGINEER.
- * THESE ITEMS SHALL BE PAID FOR AS PLACE AND REMOVE.
 # THESE ITEMS SHALL BE PAID FOR AS INLET PROTECTION (EACH).
 ## ROUGH CUT STREET CONTROL SHALL BE PAID FOR AS AGGREGATE BAG (LF)

ADDITIONAL SEDIMENT/EROSION CONTROL:

IT IS ESTIMATED THAT BLADING (120 HORSEPOWER), DOZING (100 HORSEPOWER), COMBINATION LOADER (125 HORSEPOWER) AND/OR BACKHOE (75 HORSEPOWER) AND/OR LABORER MAY BE REQUIRED FOR MISCELLANEOUS EROSION CONTROL WORK AS DIRECTED BY THE ENGINEER. WORK SHALL BE PAID FOR AS 208 SEDIMENT REMOVAL AND DISPOSAL (40 HRS). EROSION CONTROL MANAGEMENT WILL BE REQUIRED FOR THIS PROJECT AND SHALL BE PAID FOR AS 208 EROSION CONTROL MANAGEMENT (30 DAYS).

WATER CONTROL NOTES – TEMPORARY STREAM CONTROL

1. THE CONTRACTOR SHALL DEVELOP AND SUBMIT A WATER CONTROL PLAN TO THE TOWN OF PARKER FOR REVIEW AND APPROVAL TWO WEEKS PRIOR TO BEGINNING CONSTRUCTION. WATER CONTROL INCLUDES CHANNEL BASE FLOW, STORMWATER RUNOFF, AND GROUNDWATER. THE CONTRACTOR'S WATER CONTROL PLAN SHALL INCLUDE ALL MEANS AND METHODS NECESSARY IN CONVEYING A CLEAN WATER DIVERSION FOR WATER THROUGH AND FROM THE PROJECT SITE SO THAT THE WATER QUALITY OR PROPERTY DOWNSTREAM OF THE PROJECT LIMITS ARE NOT IMPACTED NEGATIVELY FROM THE PROJECT'S CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR'S MEANS AND METHODS INCLUDED IN THE CONTRACTOR'S APPROVED WATER CONTROL PLAN MAY INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: PLASTIC LINED DIVERSION DITCHES, TEMPORARY PIPING, HOSES, CUTOFF WALLS, CHECK DAMS, PUMPS, GENERATORS, SOUND PROOFING, TEMPORARY POWER, SHEET PILE, SHORING, SEDIMENT TRAPS, SEDIMENT BASINS, FILTER BAGS, REINFORCED ROCK BERMS, STREAM CROSSINGS, RIPRAP PADS, RIPRAP, CRUSHED ROCK AND ANY OTHER WATER CONTROL MEASURES NECESSARY AND APPROVED BY THE TOWN OF PARKER.
3. GIVEN THE NATURE OF THE PROJECT SITE'S TERRAIN AND SCOPE OF WORK, THE CONTRACTOR'S WATER CONTROL PLAN AND PROPOSAL SHALL ACCOUNT FOR THE NEED TO RELOCATE WATER CONTROL MEASURES AS NEEDED BASED ON THE CONTRACTOR'S ACTUAL CONSTRUCTION SEQUENCE AND SELECTED MEANS AND METHODS.
4. WATER QUALITY SHALL BE ONE OF THE CONTRACTOR'S PRIMARY CONCERNS. THE CONTRACTOR'S IMPLEMENTED WATER CONTROL PLAN WILL BE INSPECTED DAILY. IF FOR ANY REASON THE CONTRACTOR'S IMPLEMENTED WATER CONTROL PLAN NEEDS CORRECTIVE ACTION OR IF THE CONTRACTOR IS DIRECTED BY THE TOWN OF PARKER OR THE OWNER'S REPRESENTATIVE TO MAKE REPAIRS, THE CONTRACTOR SHALL MAKE SUCH CORRECTIONS IMMEDIATELY.
5. THE APPROXIMATE 2-YR DISCHARGE FOR HAPPY CANYON CREEK IS 309 CFS. THE AVERAGE BASE FLOW RATE IS UNKNOWN. THE ESTIMATED AVERAGE BASE FLOW RATE IS APPROXIMATELY 1 CFS.
6. ALL STREAM DIVERSION DITCHES NEED TO BE PLASTIC LINED AT A MINIMUM AS DIRECTED BY THE TOWN OF PARKER.
7. ALL TEMPORARY STREAM CROSSINGS SHALL BE COMPLETELY RIPRAP REINFORCED AND HAVE PLASTIC LINING UNDER THE RIPRAP. THE CONTRACTOR'S SELECTED STREAM CROSSING SHALL ACCOMMODATE PASSAGE FOR BASE FLOWS AND AT NO TIME SHALL CONTRACTORS' EQUIPMENT HAVE DIRECT CONTACT WITH ANY STREAM FLOW.
8. ALL INCIDENTAL WATER CONTROL ITEMS SHALL BE PAID FOR AS TEMPORARY STREAM CROSSING (EA).

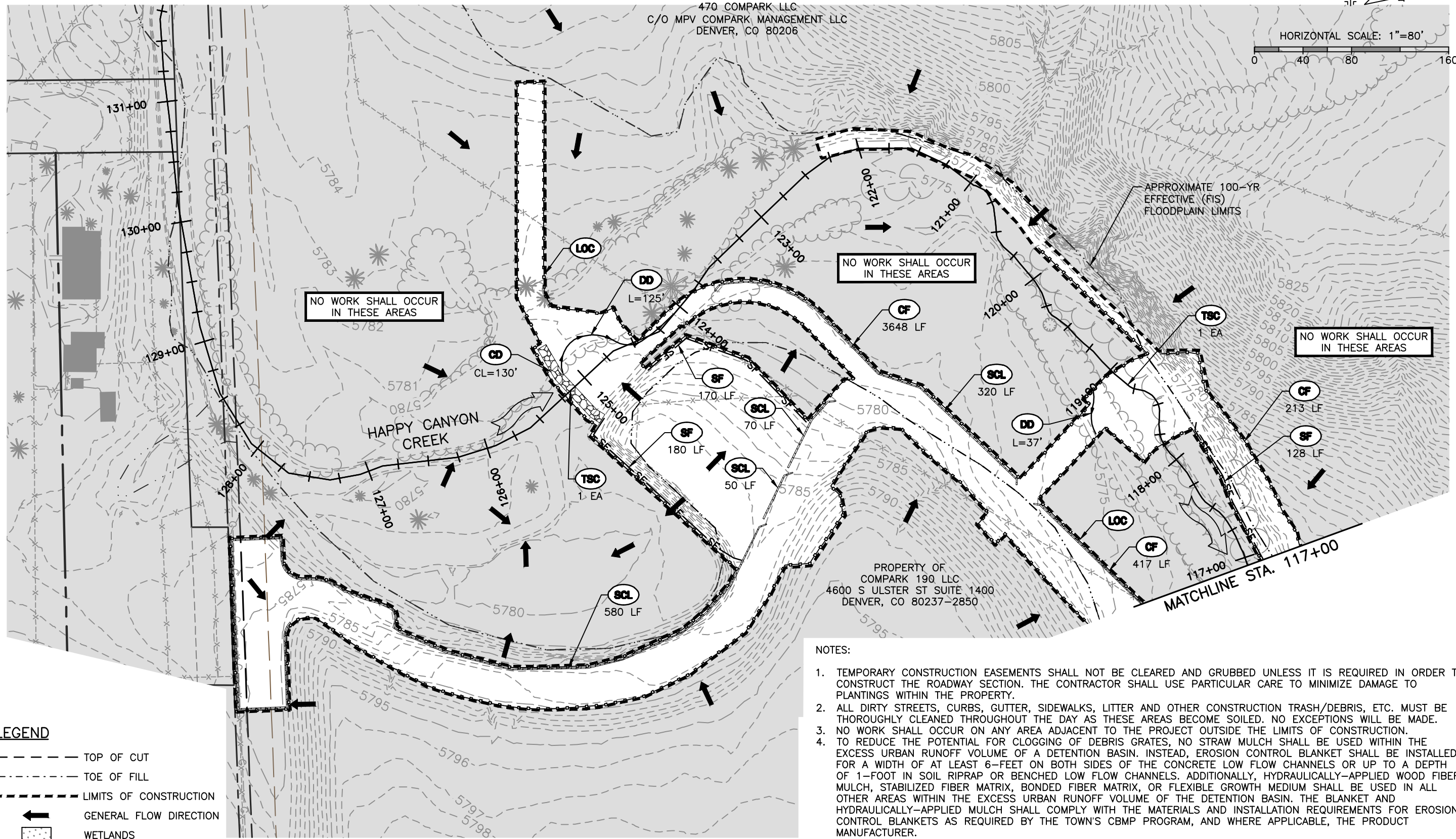
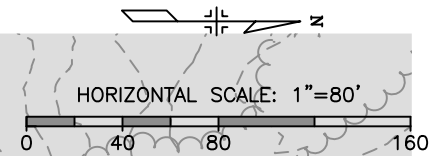
CBMP LEGEND

| | |
|--|--|
| | CD CHECK DAM |
| | CF CONSTRUCTION FENCE |
| | CP CULVERT PROTECTION |
| | CWA CONCRETE WASHOUT AREA |
| | D DEWATERING |
| | DD DIVERSION DITCH |
| | ECB EROSION CONTROL BLANKET (STRAW/COCONUT) |
| | IPAN INLET PROTECTION FOR AREA INLETS NOT IN PAVEMENT |
| | LOC LIMITS OF CONSTRUCTION |
| | PTP PORTABLE TOILET PROTECTION |
| | RCSC ROUGH CUT STREET CONTROL |
| | SCL SEDIMENT CONTROL LOG (12 INCH) |
| | SF SILT FENCE |
| | SMC SEEDING MULCHING AND CRIMPING |
| | SSA STABILIZED STAGING AREA |
| | TSS TEMPORARY SEDIMENT BASIN |
| | TSC TEMPORARY STREAM CONTROL |
| | VTC VEHICLE TRACKING CONTROL |

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|---|--|--|--|--|----------------|-----------------|---|---------------|------------------|--|
| Print Date: 6/17/2021 9:21:27 PM | Sheet Revisions | | | | As Constructed | | BELFORD-HAPPY CANYON CREEK TABULATION OF EROSION CONTROL QUANTITIES | | Project No./Code | |
| File Name: E115360-01TAB01AROP.dwg | | | | | Date | Comments | Initials | No Revisions: | | |
| Horizontal Scale: NTS Vertical Scale: NTS | | | | | Revised: | Designer: CDT | Structure Numbers | | | |
| | 6400 South Fiddlers Green Circle, Suite 1500 Greenwood Village, CO 80111 Phone: 303.721.1440 www.FHUENG.com | | | | | Detailer: KLT | | | Sheet Number 88 | |
| | | | | | Void: | Subset: EROSION | Sheets: ET-1 of 1 | | | |

PROPERTY OF
470 COMPARK LLC
C/O MPV COMPARK MANAGEMENT LLC
DENVER, CO 80206



LEGEND

- TOP OF CUT
- - - - - TOE OF FILL
- LIMITS OF CONSTRUCTION
- ← GENERAL FLOW DIRECTION
- WETLANDS

- NOTES:
1. TEMPORARY CONSTRUCTION EASEMENTS SHALL NOT BE CLEARED AND GRUBBED UNLESS IT IS REQUIRED IN ORDER TO CONSTRUCT THE ROADWAY SECTION. THE CONTRACTOR SHALL USE PARTICULAR CARE TO MINIMIZE DAMAGE TO PLANTINGS WITHIN THE PROPERTY.
 2. ALL DIRTY STREETS, CURBS, GUTTER, SIDEWALKS, LITTER AND OTHER CONSTRUCTION TRASH/DEBRIS, ETC. MUST BE THOROUGHLY CLEANED THROUGHOUT THE DAY AS THESE AREAS BECOME SOILED. NO EXCEPTIONS WILL BE MADE.
 3. NO WORK SHALL OCCUR ON ANY AREA ADJACENT TO THE PROJECT OUTSIDE THE LIMITS OF CONSTRUCTION.
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 5. SEE TABULATION OF EROSION CONTROL QUANTITIES FOR CBMP LEGEND.

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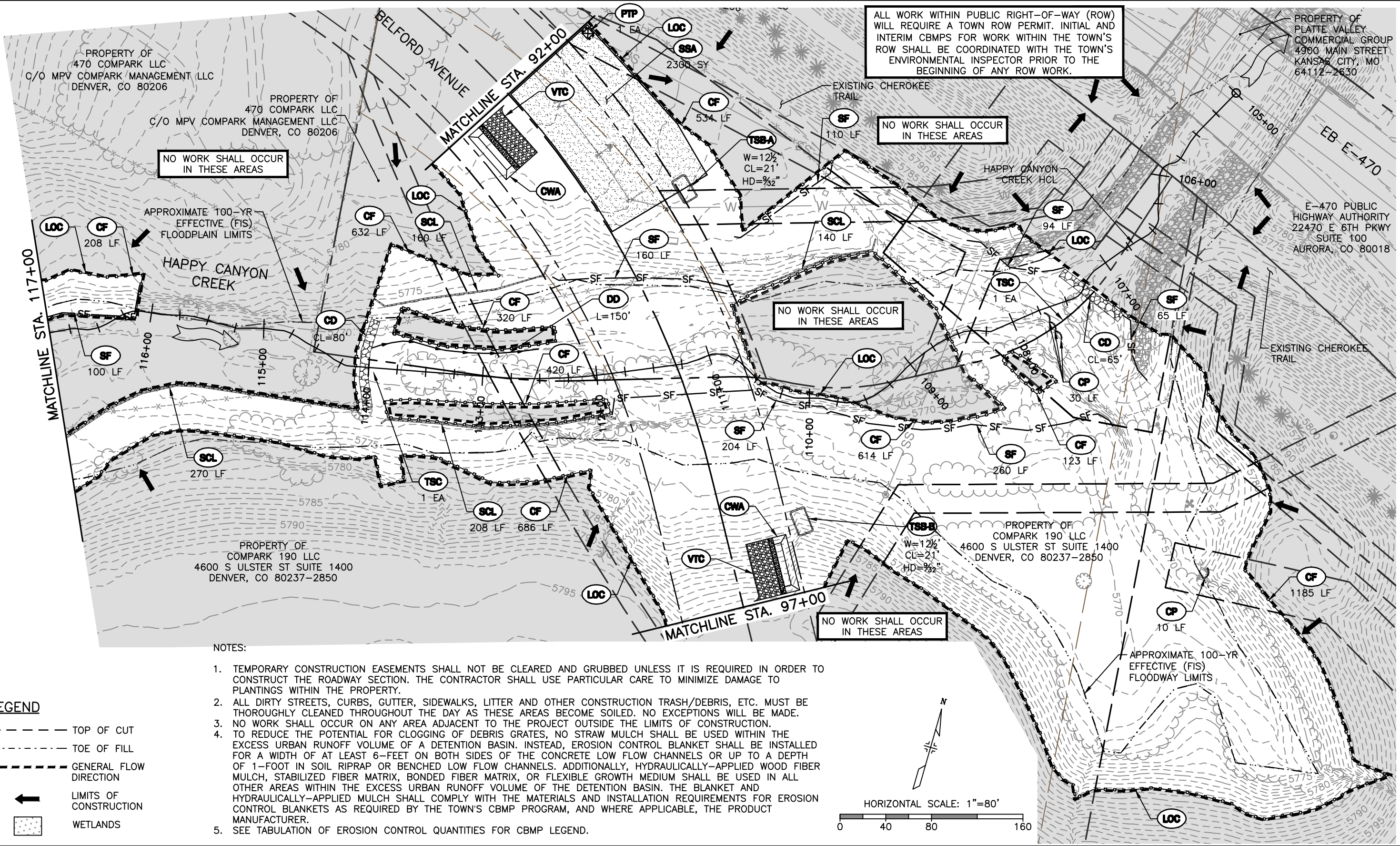
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| As Constructed | BELFORD - HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE INITIAL CBMP PLAN | | Project No./Code |
| No Revisions: | Designer: CDT | Structure Numbers | |
| Revised: | Detailer: KLT | | |
| Void: | Subset: Erosion | Sheets: El-1 of 2 | Sheet Number 89 |

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ALL WORK WITHIN PUBLIC RIGHT-OF-WAY (ROW) WILL REQUIRE A TOWN ROW PERMIT. INITIAL AND INTERIM CBMPS FOR WORK WITHIN THE TOWN'S ROW SHALL BE COORDINATED WITH THE TOWN'S ENVIRONMENTAL INSPECTOR PRIOR TO THE BEGINNING OF ANY ROW WORK.

NO WORK SHALL OCCUR IN THESE AREAS

NO WORK SHALL OCCUR IN THESE AREAS

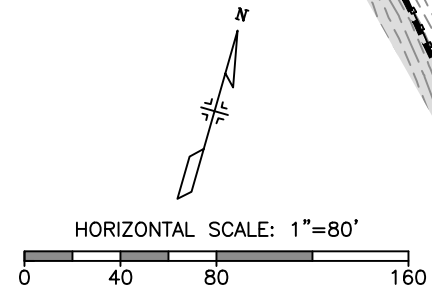
NO WORK SHALL OCCUR IN THESE AREAS

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- SEE TABULATION OF EROSION CONTROL QUANTITIES FOR CBMP LEGEND.

LEGEND

- TOP OF CUT
- - - - - TOE OF FILL
- GENERAL FLOW DIRECTION
- ← LIMITS OF CONSTRUCTION
- WETLANDS



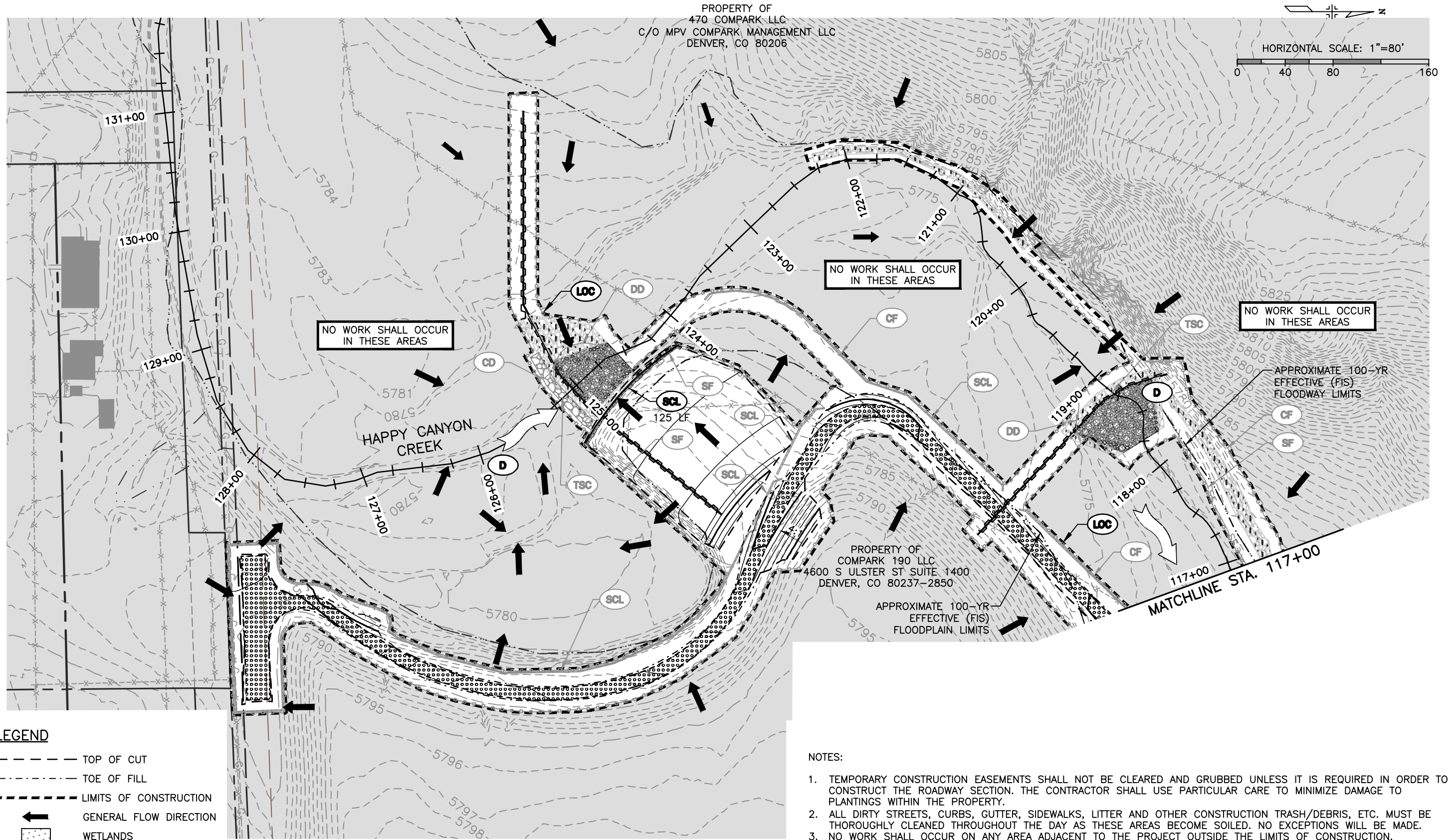
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| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE INITIAL CBMP PLAN | | Project No./Code |
| No Revisions: | Designer: CDT | Structure Numbers | Sheet Number 90 |
| Revised: | Detailer: KLT | Sheets: EI-2 of 2 | |
| Void: | Subset: Erosion | | |

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LEGEND

- TOP OF CUT
- TOE OF FILL
- LIMITS OF CONSTRUCTION
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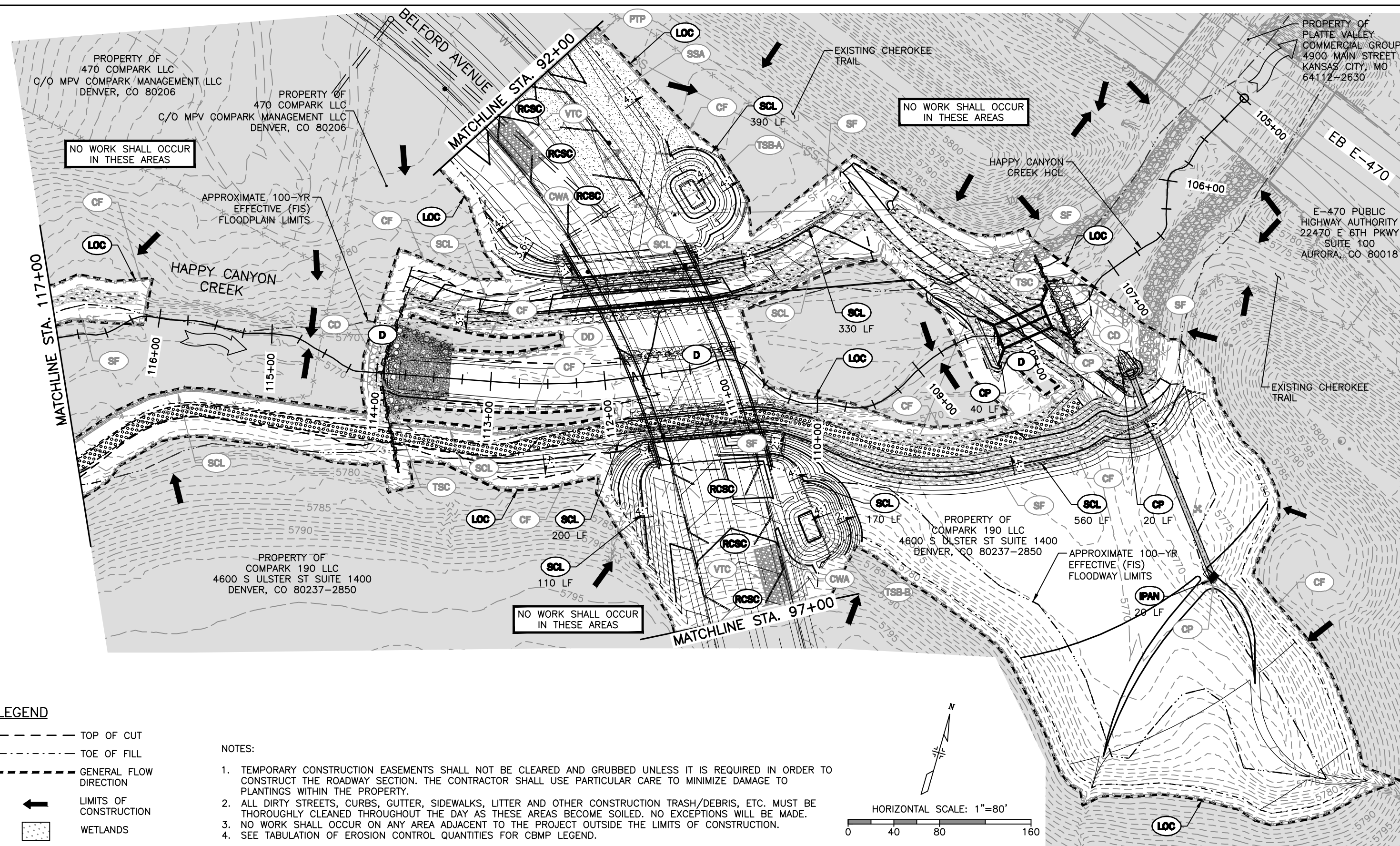
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| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE INTERIM CBMP PLAN | | Project No./Code |
| No Revisions: | Designer: CDT | Structure Numbers | |
| Revised: | Detailer: KLT | | |
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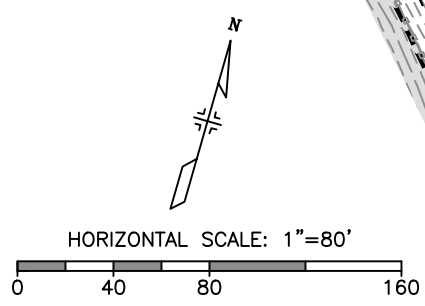


LEGEND

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- ▨ WETLANDS

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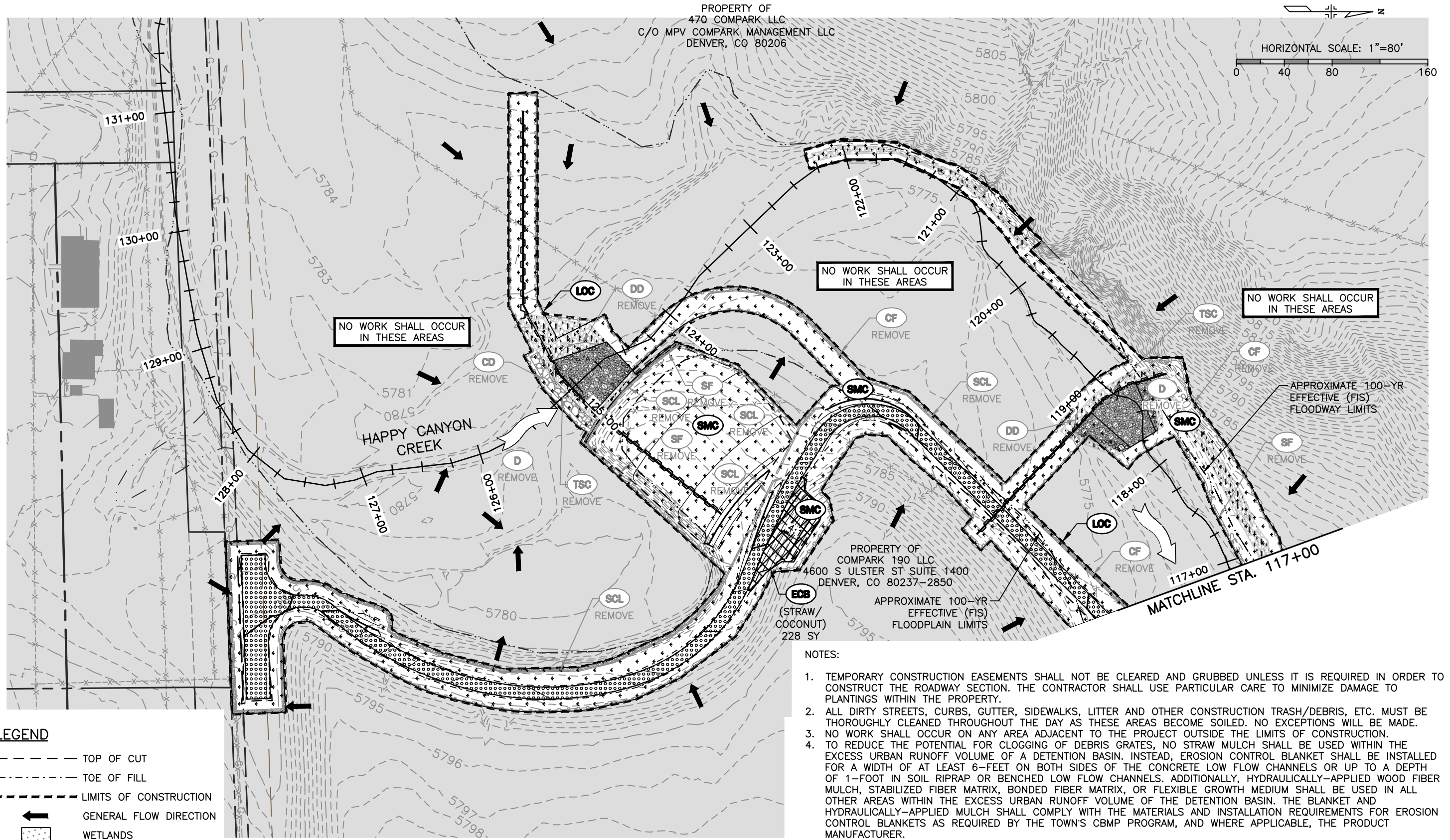
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| No Revisions: | Designer: CDT | Structure Numbers | |
| Revised: | Detailer: KLT | | |
| Void: | Subset: Erosion | Sheets: EN-2 of 2 | Sheet Number 92 |

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LEGEND

- TOP OF CUT
- TOE OF FILL
- LIMITS OF CONSTRUCTION
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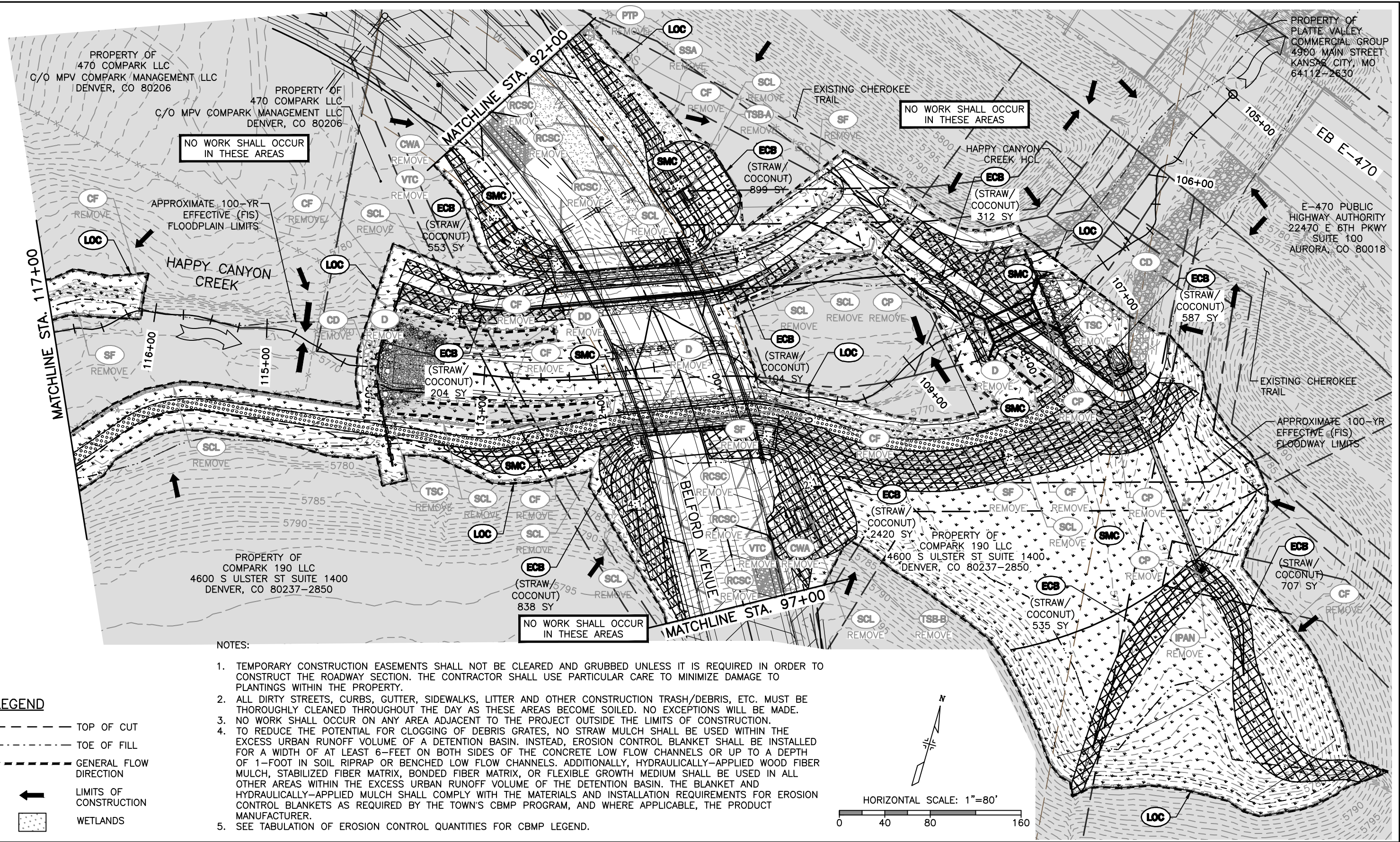


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| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE FINAL CBMP PLAN | | Project No./Code |
| No Revisions: | Designer: CDT | Structure Numbers | Sheet Number 93 |
| Revised: | Detailer: KLT | | |
| Void: | Subset: Erosion | Sheets: EF-1 of 2 | |



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NO WORK SHALL OCCUR IN THESE AREAS

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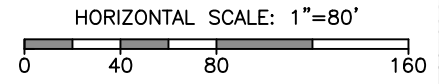
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LEGEND

- TOP OF CUT
- TOE OF FILL
- GENERAL FLOW DIRECTION
- ← LIMITS OF CONSTRUCTION
- WETLANDS



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Civil Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers
Construction Managers • Environmental Scientists • Landscape Architects • Planners

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| As Constructed | BELFORD-HAPPY CANYON CREEK HAPPY CANYON CREEK DROP STRUCTURE FINAL CBMP PLAN | | Project No./Code |
| No Revisions: | Designer: CDT | Structure Numbers | Sheet Number 94 |
| Revised: | Detailer: KLT | Sheets: EF-2 of 2 | |
| Void: | Subset: Erosion | | |

1. GRADING, DRILLING, CLEARING, EXCAVATING, BACK-FILLING, SOIL STRIPPING, SOIL IMPORTING EXPORTING OR ANY OTHER FORM OF SOIL DISTURBANCE SHALL NOT COMMENCE UNTIL A TOWN OF PARKER GRADING/EXCAVATION PERMIT HAS BEEN ISSUED.
2. THE TOWN OF PARKER GRADING/EXCAVATION PERMIT IS VALID FOR A PERIOD OF 2 YEARS FROM THE DATE OF ISSUANCE. ANY LAPSE IN PERMIT COVERAGE MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER AND/OR FINES.
3. ALL EROSION AND SEDIMENT CONTROL BMPs SHALL BE INSTALLED ACCORDING TO THE CBMP PLAN INSTALLATION NOTES AND DETAILS AND/OR PERMITTED VARIANCES. ALL MATERIALS, WORKMANSHIP AND INSTALLATION METHODS ARE SUBJECT TO INSPECTION BY THE TOWN'S INSPECTOR. THE TOWN OF PARKER RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS, WORKMANSHIP AND/OR INSTALLATION METHODS THAT DO NOT CONFORM TO THE CBMP PLAN AND/OR PERMITTED VARIANCES.
4. THE EROSION CONTROL SUPERVISOR SHALL REVISE OR MODIFY THE EROSION AND SEDIMENT CONTROL MEASURES IF IT BECOMES APPARENT THAT THE ORIGINAL PLAN IS INADEQUATE, OR AS A RESULT OF DEFICIENCIES IDENTIFIED DURING INSPECTIONS PERFORMED BY THE TOWN'S INSPECTOR.
5. THE INSTALLATION OF ADDITIONAL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) MAY BE REQUIRED OF THE EROSION CONTROL SUPERVISOR, PROPERTY OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS AT ANY TIME THROUGHOUT THE DURATION OF THE PROJECT CONSTRUCTION AND/OR SUBSEQUENT REVEGETATION PERIOD.
6. THE EROSION CONTROL SUPERVISOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE SITE REMAINS IN COMPLIANCE WITH THE NOTICE OF NUISANCE REPORTS (a.k.a, CONSTRUCTION SITE RUNOFF CONTROL INSPECTION REPORTS), APPROVED CBMP PLAN(S) AND THE TOWN OF PARKER STORM DRAINAGE AND ENVIRONMENTAL CRITERIA MANUAL.
7. THE EROSION CONTROL SUPERVISOR SHALL BE READILY AVAILABLE TO DISCUSS AND CORRECT ANY PROBLEMS THAT MAY ARISE RELATING TO GRADING, EROSION AND SEDIMENT CONTROL.
8. IF IT IS ANTICIPATED THAT ALL OR A PORTION OF THE PROJECT WILL OCCUR DURING SEASONS SUSCEPTIBLE TO SNOWFALL, THE USE OF CERTAIN EROSION AND SEDIMENT CONTROL BMPs ADJACENT TO PUBLIC ROADWAYS MAY NEED TO BE RECONSIDERED DUE TO THE NATURE OF SNOW REMOVAL OPERATIONS. AN APPROVED ALTERNATIVE MAY BE NECESSARY TO MINIMIZE DAMAGE FROM THESE OPERATIONS. THE TOWN OF PARKER ASSUMES NO RESPONSIBILITY FOR DAMAGE TO ANY BMPs AS A RESULT OF SNOW PLOWING AND SNOW REMOVAL.
9. AREAS OF LAND DISTURBANCE EQUAL TO 40 ACRES OR GREATER SHALL NOT BE EXPOSED FOR MORE THAN 30 CONSECUTIVE DAYS WITHOUT TEMPORARY OR PERMANENT STABILIZATION.
10. AUTHORIZED EXEMPTIONS MAY BE ALLOWED TO THE 40-ACRE LIMIT FOR REMOVAL AND STORAGE OF CUT MATERIAL WHERE (A) GEOTECHNICAL LIMITATIONS RESTRICT THE USE OF TEMPORARY OR PERMANENT STABILIZATION OF THE STORED MATERIAL (E.G., SWELLING SOILS, ROCK) AND (B) WHEN THE OWNER CAN DEMONSTRATE THAT THE 40-ACRE LIMIT IS PHYSICALLY AND/OR FINANCIALLY IMPRACTICABLE. FOR SITES GRANTED THIS EXEMPTION, A PHASING AND EARTHWORK QUANTITIES PLAN SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT AND APPROVED PRIOR TO THE COMMENCEMENT OF LAND DISTURBANCE ACTIVITIES. SUBMITTAL REQUIREMENTS INCLUDE:
 - (I) PHASING PLAN SHOWING CUT AND FILL VOLUMES AND LOCATIONS FOR EACH PHASE AND PROJECT TOTALS.
 - (II) EARTHWORK QUANTITY PLAN SHOWING CUT AND FILL VOLUMES AND LOCATIONS FOR EACH PHASE AND PROJECT TOTALS.
 - (III) BMP PLAN SHOWING SPECIFIC EROSION AND SEDIMENT CONTROLS FOR EACH PHASE.



CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

GEN NOTES

1 OF 4

Oct. 2013

11. ANY EROSION AND SEDIMENT CONTROL BMPs THAT ARE DAMAGED OR IN NEED OF MAINTENANCE OR REPLACEMENT SHALL BE CORRECTED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.
12. ALL DEFICIENCIES LISTED ON THE NOTICE OF NUISANCE FORM SHALL BE COMPLETED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES. ALL REQUIRED ACTIONS MUST BE IN THE CORRECTED FORM DURING THE FOLLOW-UP INSPECTION.
13. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR ENSURING THAT ALL STREETS, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS, PARKING LOTS, ALLEYS, TRICKLE CHANNELS, AND/OR OTHER IMPERVIOUS SURFACES IMPACTED BY CONSTRUCTION ACTIVITIES ARE THOROUGHLY CLEANED THROUGHOUT THE DAY IF THEY BECOME SOILED. THESE AREAS MUST ALSO BE THOROUGHLY CLEAN BEFORE THE END OF THE WORK DAY.
14. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS.
15. ALL TRASH RECEPTACLES ON SITE SHALL BE FREE OF HOLES, CRACKS, GAPS, AND/OR OTHER PERMEABLE AREAS THAT MAY ALLOW FOR THE DISCHARGE OF POLLUTANTS.
16. ALL TRASH RECEPTACLES ON SITE SHALL BE EMPTIED AT A FREQUENCY AS TO ENSURE THAT THE TRASH REMAINS CONFINED TO THE RECEPTACLE.
17. ALL LOOSE TRASH AND LITTER ASSOCIATED WITH THE PROJECT MUST BE REMOVED AND PROPERLY DISCARDED ON A DAILY BASIS.
18. ALL PORTABLE TOILETS SHALL BE STAKED DOWN AT ALL TIMES USING U-SHAPED REBAR STAKES. THE PORTABLE TOILETS SHALL ALSO BE PLACED A MINIMUM DISTANCE OF 10 FEET FROM ALL IMPERVIOUS SURFACES, INCLUDING, BUT NOT LIMITED TO STREETS CURBS, GUTTERS, SIDEWALKS AND PARKING LOTS.
19. THE EROSION CONTROL SUPERVISOR SHALL MAINTAIN STRICT ADHERENCE TO THE LIMITS OF CONSTRUCTION AND PROPERTY LIMITS FOR ALL MATERIALS, VEHICLES AND EQUIPMENT. FAILURE TO ABIDE BY THIS REQUIREMENT MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER.
20. ALL CONSTRUCTION TRAFFIC MUST ENTER AND EXIT THE SITE THROUGH THE APPROVED ACCESS POINT(S). A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT ALL APPROVED ACCESS POINTS TO THE SITE. EXCEPTIONS MAY BE CONSIDERED FOR CONSTRUCTION ACTIVITY OCCURRING IMMEDIATELY ADJACENT TO PAVED AREAS AND WHERE ALTERNATIVE BMP'S ARE IMPLEMENTED. SUCH ACTIVITY MAY INCLUDE, BUT NOT BE LIMITED TO RESIDENTIAL CONSTRUCTION, UTILITY CONSTRUCTION, ETC.
21. NO PERMANENT SLOPES GREATER THAN 3:1 ARE ALLOWED.
22. ALL PERMANENT SLOPES STEEPER THAN 4:1 (HORIZONTAL TO VERTICAL) SHALL REQUIRE EROSION CONTROL BLANKET(S). TEMPORARY SLOPES IN TEMPORARY SEDIMENT BASINS THAT ARE STEEPER THAN 4:1 MAY REQUIRE EROSION CONTROL BLANKETS.
23. THE EROSION CONTROL SUPERVISOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ADVERSE IMPACTS THAT OCCUR TO NEIGHBORING PROPERTIES. THE EROSION CONTROL SUPERVISOR MUST OBTAIN PERMISSION FROM LAND OWNERS PRIOR TO ENTERING SUCH PROPERTY.
24. A WATER SOURCE SHALL BE AVAILABLE ONSITE DURING CONSTRUCTION ACTIVITIES, AND UTILIZED TO MINIMIZE FUGITIVE DUST. ALTERNATIVE BMPs MAY BE REQUIRED IF INITIAL ATTEMPTS TO SUPPRESS DUST ARE UNSUCCESSFUL.



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25. ALL CHEMICAL OR HAZARDOUS MATERIAL SPILLS, INCLUDING CONCRETE WASHOUT WATER, WHICH MAY ENTER WATERS OF THE STATE OF COLORADO, WHICH INCLUDES BUT ARE NOT LIMITED TO, SURFACE WATER, GROUND WATER, DRY GULLIES OR STORM SEWERS LEADING TO SURFACE WATER, SHALL BE IMMEDIATELY REPORTED TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) PER 25-8-601, AND THE TOWN OF PARKER. RELEASES OF PETROLEUM PRODUCTS AND CERTAIN HAZARDOUS SUBSTANCES LISTED UNDER THE FEDERAL CLEAN WATER ACT (40 CFR PART 116) MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AND THE CDPHE. SPILLS THAT POSE AN IMMEDIATE SAFETY HAZARD SHALL BE REPORTED TO 911.
26. THE CLEANING OF CONCRETE TRUCKS AND EQUIPMENT IS RESTRICTED TO THE APPROVED CONCRETE WASHOUT LOCATION ON THE JOB SITE. CONCRETE WASH WATER SHALL NOT BE DISCHARGED TO STATE WATERS OR STORM SEWER SYSTEMS.
27. VEHICLE AND EQUIPMENT DEGREASING IS PROHIBITED ON THE JOB SITE.
28. ALL DEWATERING ON SITE SHALL BE COORDINATED WITH THE TOWN'S INSPECTOR. A STATE PERMIT MAY BE REQUIRED FOR DEWATERING. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR OBTAINING AND ADHERING TO ALL APPLICABLE PERMITS.
29. HYDRAULIC SEEDING AND/OR HYDRAULIC MULCHING ARE ONLY ALLOWED IN AREAS UNDER TEMPORARY OR PERMANENT IRRIGATION OR FOR THE PURPOSE OF TEMPORARY SOIL STABILIZATION.
30. APPLICABLE CONSTRUCTION BMPs SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL ALL LANDSCAPING HAS BEEN INSTALLED AND THE DESIRABLE VEGETATION HAS REACHED A POINT IN WHICH EROSION AND SEDIMENTATION IS NO LONGER A CONCERN AS DETERMINED BY THE TOWN'S INSPECTOR.
31. GRADING SECURITY RELEASE REQUIREMENTS:

1) DEVELOPABLE PROPERTY: IN ORDER FOR THE GRADING SECURITY TO BE RELEASED, THE SITE MUST MEET ITEMS A-H OR ITEM I (BELOW).

- A. ALL SOIL-DISTURBING ACTIVITIES ASSOCIATED WITH THE GRADING PERMIT HAVE PERMANENTLY CEASED.
- B. UNIFORM PERENNIAL VEGETATION COVER HAS BEEN ESTABLISHED WITH AN INDIVIDUAL PLANT DENSITY OF AT LEAST SEVENTY PERCENT (70%) OF PRE-DISTURBANCE LEVELS.
- C. ALL CBMPs HAVE BEEN PROPERLY REMOVED FROM THE SITE.
- D. IF ANY EROSION IS PRESENT, IT IS INSIGNIFICANT AND IS NOT LEAVING THE SITE AND/OR LEADING INTO ANY ON-SITE DRAINAGE INFRASTRUCTURE THAT MAY CONVEY SURFACE WATER OFF SITE.
- E. WEEDS REPRESENT NO MORE THAN FIFTY PERCENT (50%) OF THE TOTAL VEGETATION ON THE SITE.
- F. NO WEEDS ARE PRESENT FROM LIST A OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
- G. THE SITE IS PREDOMINANTLY FREE OF WEEDS FROM LIST B OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
- H. WEEDS ARE EVENLY DISTRIBUTED THROUGHOUT THE SITE WITH NO LARGE CONCENTRATIONS PRESENT.
- I. A NEW GRADING PERMIT AND REPLACEMENT SECURITY HAS BEEN SUBMITTED AND APPROVED

FOR THE APPLICABLE SITE OR ASSIGNMENT AS PROVIDED BY SECTION 11.10.150 OF THE TOWN OF PARKER MUNICIPAL CODE. IT IS THE PROPERTY OWNER'S OBLIGATION AT THE TIME OF CLOSING TO ENSURE THAT THE NEW SITE OWNER HAS PROVIDED THE TOWN WITH A REPLACEMENT SECURITY.



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- 2) NONDEVELOPABLE PROPERTY: IN ORDER FOR THE GRADING SECURITY TO BE RELEASED, THE SITE MUST MEET ITEMS A-H AND J, OR ITEMS I AND J (BELOW).
 - A. ALL SOIL-DISTURBING ACTIVITIES ASSOCIATED WITH THE GRADING PERMIT HAVE PERMANENTLY CEASED.
 - B. ALL CBMPs HAVE BEEN PROPERLY REMOVED FROM THE SITE.
 - C. EROSION IS NEGLIGIBLE, IF EVEN PRESENT.
 - D. THE VEGETATION REPRESENTS A PERENNIAL STAND OF A DENSE, UNIFORM SURFACE OF GRASS WITH NO AREA GREATER THAN ONE (1) SQUARE FOOT THAT IS BARREN OF DESIRABLE VEGETATION. INFREQUENT, WIDELY SCATTERED AREAS WHERE NATIVE VEGETATION HAS NOT YET TAKEN HOLD MAY QUALIFY FOR ACCEPTANCE AT THE DISCRETION OF THE TOWN.
 - E. WEEDS REPRESENT NO MORE THAN TEN PERCENT (10%) OF THE TOTAL VEGETATION ON SITE.
 - F. NO WEEDS ARE PRESENT FROM LIST A OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
 - G. THE SITE IS PREDOMINANTLY FREE OF WEEDS FROM LIST B OF THE COLORADO NOXIOUS WEED LIST, AS AMENDED.
 - H. WEEDS ARE EVENLY DISTRIBUTED THROUGHOUT THE SITE WITH NO LARGE CONCENTRATIONS PRESENT.
 - I. A NEW GRADING PERMIT AND REPLACEMENT SECURITY HAS BEEN SUBMITTED AND APPROVED FOR THE APPLICABLE SITE OR THE GRADING PERMIT HAS BEEN ASSIGNED AS PROVIDED BY SECTION 11.10.150 OF THE TOWN OF PARKER MUNICIPAL CODE. IT IS THE PROPERTY OWNER'S OBLIGATION, AT THE TIME OF CLOSING ON THE SALE OF A SITE THAT IS SUBJECT TO A GRADING PERMIT, TO ENSURE THAT THE NEW PROPERTY OWNER HAS PROVIDED THE TOWN WITH A REPLACEMENT SECURITY.
 - J. ALL KNOWN DRAINAGE ISSUES ASSOCIATED WITH THE PROJECT HAVE BEEN MITIGATED AND A SUFFICIENT AMOUNT OF TIME HAS PASSED TO ENSURE THAT SUCH ISSUES HAVE BEEN CORRECTED. THIS REQUIREMENT DOES NOT INCLUDE THOSE DRAINAGE ISSUES ORIGINATING ON RESIDENTIAL LOTS.

(D) NOXIOUS WEEDS MUST BE CONTROLLED AS PROVIDED UNDER STATE LAW AND SECTION 6.01.260 OF THE TOWN OF PARKER MUNICIPAL CODE. FAILURE TO CONTROL NOXIOUS WEEDS ON THE SITE MAY CONSTITUTE A NUISANCE, SUBJECT TO THE PENALTIES CONTAINED IN THE CODE.

DEFINITIONS:

DEVELOPABLE PROPERTY MEANS ANY LAND THAT HAS BEEN GRADED AND IS PART OF A PLATTED LOT OR PLATTED TRACT OF RECORD, THAT WAS PLATTED FOR FUTURE DEVELOPMENT, INCLUDING RESIDENTIAL HOME CONSTRUCTION OR PUBLIC IMPROVEMENTS.

NONDEVELOPABLE PROPERTY MEANS LAND THAT HAS BEEN GRADED AND WILL NOT BE FURTHER DISTURBED AS PART OF ANY FUTURE DEVELOPMENT. EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO: PARKS, OPEN SPACE, HOMEOWNER ASSOCIATION OR BUSINESS ASSOCIATION PLATTED TRACTS, DETENTION PONDS AND DRAINAGEWAYS.

32. FAILURE TO COMPLY WITH ANY OF THE REQUIREMENTS DESCRIBED IN THIS SECTION MAY RESULT IN THE ISSUANCE OF: A NOTICE OF INTENT TO ISSUE A STOP WORK ORDER, A STOP WORK ORDER AND/OR THE REMEDIES/PENALTIES DESCRIBED IN CHAPTER 11.10 OF THE TOWN OF PARKER MUNICIPAL CODE.
33. ANY PERSON CONVICTED OF VIOLATING ANY PROVISION OF THE TOWN OF PARKER, GRADING & EARTH MOVEMENT SECTION OF THE MUNICIPAL CODE SHALL BE GUILTY OF A MISDEMEANOR AND, UPON CONVICTION, BE PUNISHED BY A FINE OF NOT MORE THAN FOUR HUNDRED NINETY NINE DOLLARS (\$499.00) FOR EACH SEPARATE OFFENSE. EACH DAY A VIOLATION CONTINUES SHALL CONSTITUTE A SEPARATE OFFENSE. THE TOWN ALSO MAY SEEK IN MUNICIPAL COURT AN INJUNCTION, ABATEMENT, RESTITUTION OR ANY OTHER REMEDY TO PREVENT, ENJOIN, ABATE OR REMOVE THE VIOLATION. A PERSON CONVICTED OF VIOLATING CHAPTER 11.10 OF THE TOWN OF PARKER MUNICIPAL CODE SHALL BE LIABLE FOR THE ACTUAL COST OF REHABILITATING THE PROPERTY. THE COSTS MAY BE RECOVERED AS RESTITUTION IN MUNICIPAL COURT PROCEEDINGS OR IN A SEPARATE CIVIL ACTION.
34. THE TOWN OF PARKER RESERVES THE RIGHT TO ALLOW MODIFICATIONS AND SUBSTITUTIONS TO THE CBMP NOTES AND DETAILS WHEN SUCH MODIFICATIONS AND SUBSTITUTIONS OFFER THE SAME LEVEL OF PROTECTION AS THE STANDARD REQUIREMENTS BASED UPON THE SPECIFIC SITUATION, AS DETERMINED BY TOWN STAFF. DUE TO THE INSIGNIFICANCE AND REGULARITY OF SUCH MODIFICATIONS AND SUBSTITUTIONS, THE APPROVAL OF SUCH VARIATIONS MAY NOT BE DOCUMENTED BY TOWN STAFF.



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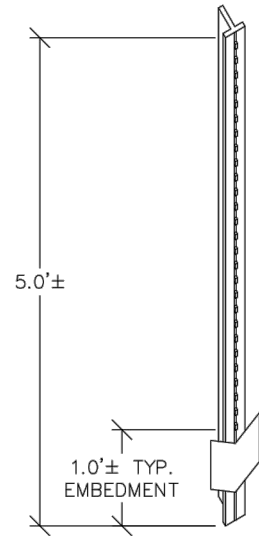
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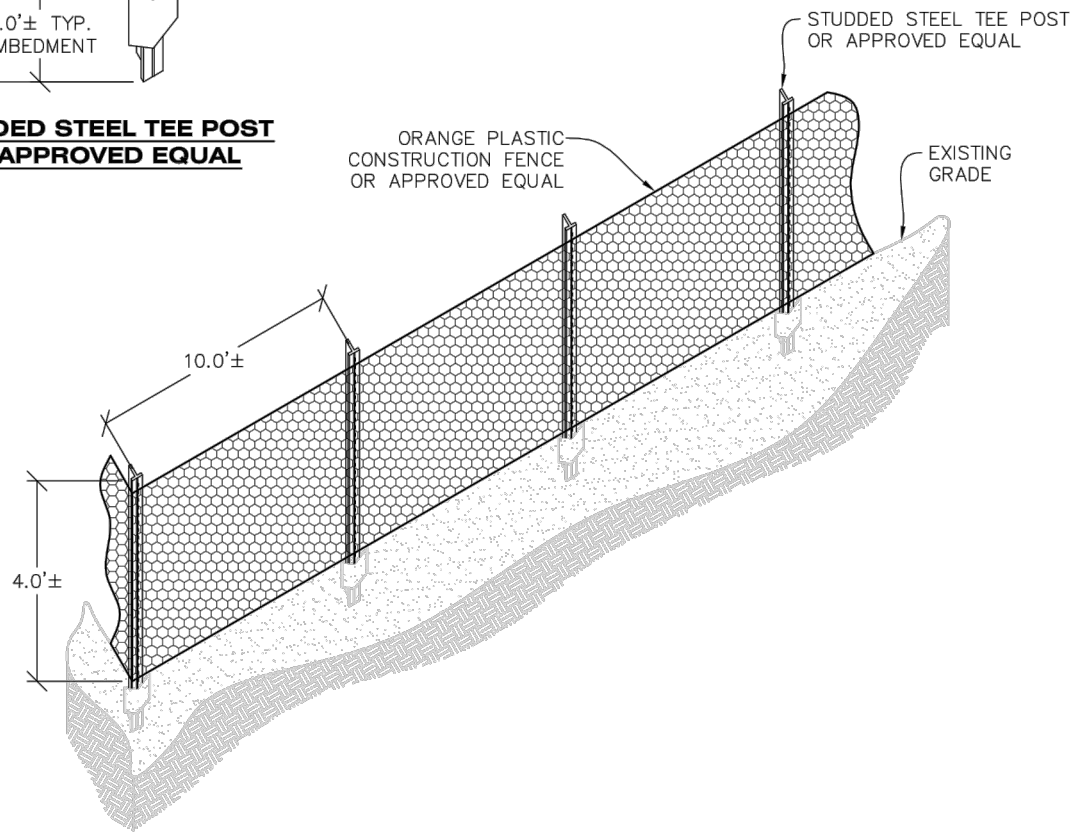
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| | Structure Numbers | Sheets: ED-2 of 35 | |

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NOTE:
CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO EACH TEE POST OR APPROVED EQUAL.

STUDED STEEL TEE POST OR APPROVED EQUAL



CF

CONSTRUCTION FENCE

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

CONSTRUCTION FENCE INSTALLATION NOTES

1. THE CONSTRUCTION FENCE SHALL BE SECURELY FASTENED TO EACH POST OR APPROVED EQUAL.

CONSTRUCTION FENCE INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CONSTRUCTION FENCE AND MAKE ANY NECESSARY REPAIRS.
2. CONSTRUCTION FENCE SHALL BE REPAIRED WHEN THE FENCING MATERIAL FALLS OUT OF COMPLIANCE WITH THE NOTES AND DETAILS.

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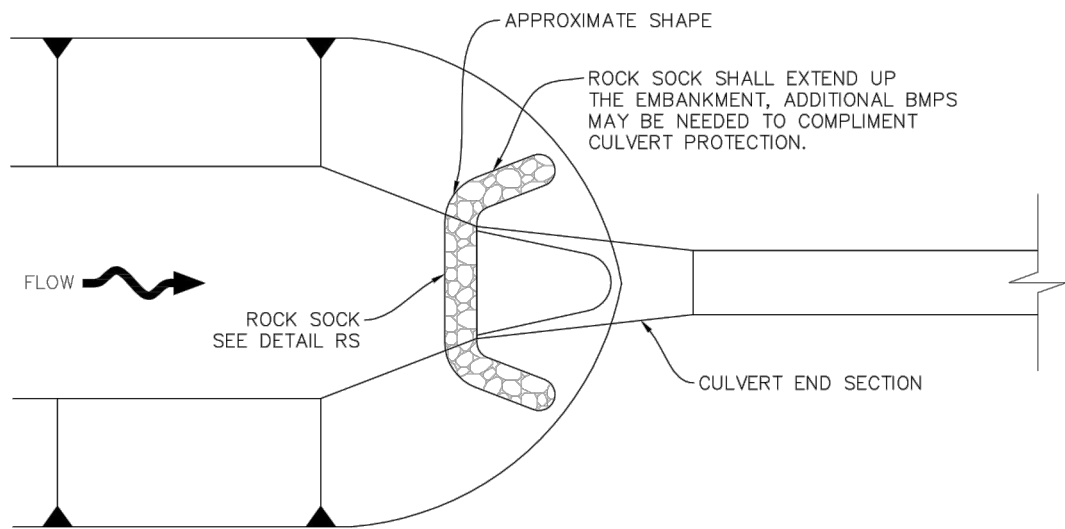
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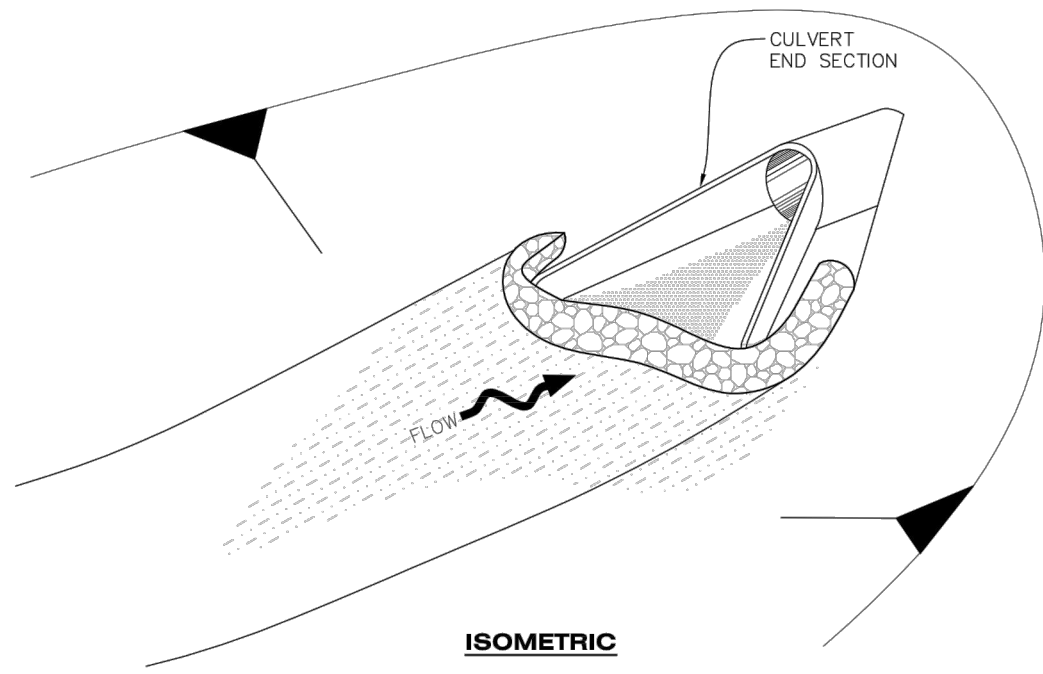
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CULVERT PROTECTION (INLET)



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CULVERT PROTECTION (INLET) INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION(S) OF CULVERT PROTECTION (INLET).
2. ROCK SOCK SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL RS).
3. ROCK SOCK SHALL BE APPROXIMATELY 12" IN DIAMETER.
4. ROCK SOCK SHALL EXTEND ABOVE THE FLOW LINE ELEVATION ON BOTH SIDES OF THE CULVERT END SECTION.

CULVERT PROTECTION (INLET) INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CULVERT PROTECTION (INLET).
2. AT A MINIMUM, ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 THE HEIGHT OF THE ROCK SOCK.
3. CULVERT PROTECTION (INLET) IS TO REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
4. WHEN THE CULVERT INLET PROTECTION IS REMOVED, THE TOWN'S INSPECTOR MAY REQUIRE ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE CULVERT INLET PROTECTION TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).



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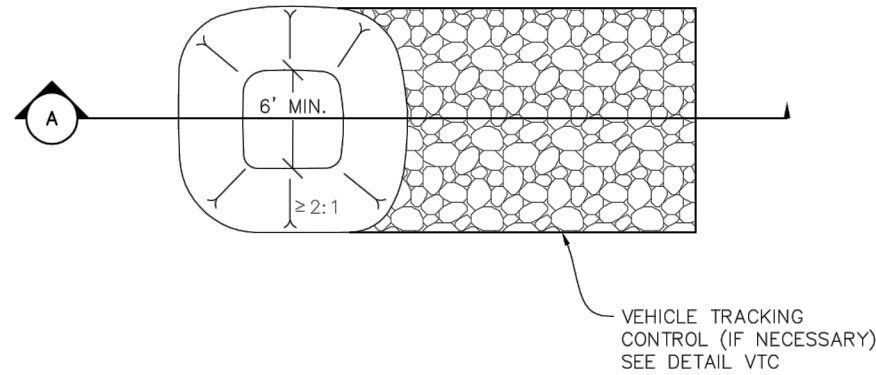
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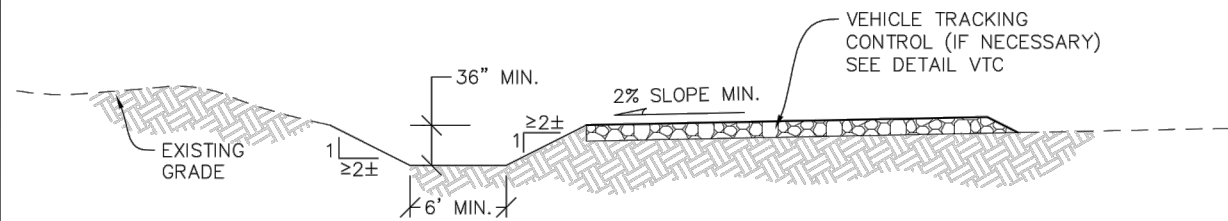
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NOTE:
A VTC PAD IS NOT NECESSARY IF THERE IS ANOTHER VTC PAD IN BETWEEN THE CWA AND ROADWAY, PARKING LOT, DRIVE AISLES, ETC.



PLAN VIEW



SECTION A



CONCRETE WASHOUT AREA

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

CONCRETE WASHOUT AREA INSTALLATION NOTES

1. CONCRETE WASHOUT AREAS SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT THE ACCESS POINT TO ALL CONCRETE WASHOUT AREAS WHEN NO OTHER VTC PAD EXISTS IN BETWEEN THE CWA AND THE ROADWAY.
3. IF GROUNDWATER IS ENCOUNTERED WHEN DIGGING THE PIT, A NEW LOCATION SHOULD BE SELECTED. IF NO OTHER LOCATION CAN BE FOUND, A ONE-PIECE IMPERVIOUS LINER SHALL BE REQUIRED ALONG THE BOTTOM AND SIDES OF THE SUBSURFACE PIT.

CONCRETE WASHOUT AREA INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CONCRETE WASHOUT AREA.
2. CONCRETE WASHOUT MATERIALS SHALL BE REMOVED BEFORE ITS CAPACITY HAS BEEN REACHED.
3. CONCRETE WASHOUT AREAS SHALL BE ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE AND ASSOCIATED WASH WATER.
4. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE AS NECESSARY TO ENSURE ADEQUATE CAPACITY.
5. CONCRETE WASHOUT AREAS SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
6. WHEN CONCRETE WASHOUT AREAS ARE REMOVED, THE TOWN'S INSPECTOR MAY REQUIRE EXCAVATIONS TO BE FILLED WITH SUITABLE COMPACTED BACKFILL AND TOPSOIL, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE CONCRETE WASHOUT AREAS SHALL BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).

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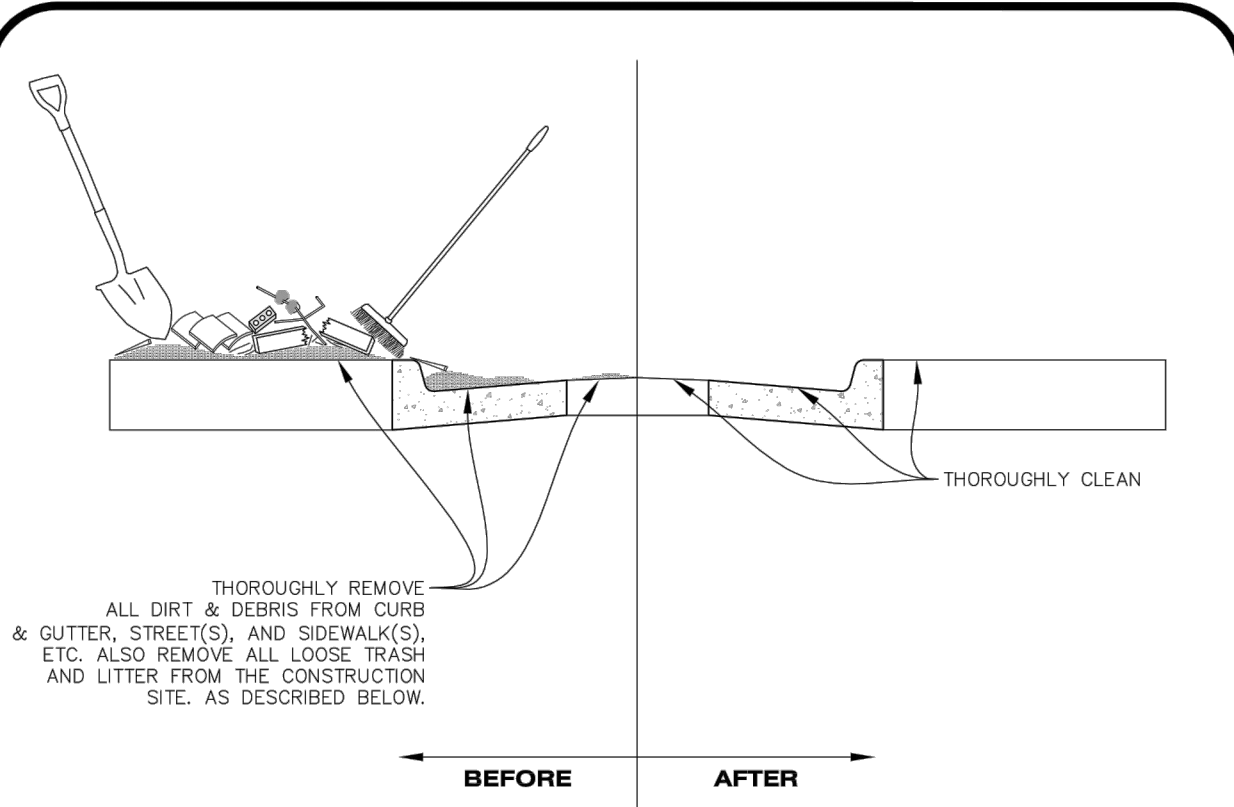
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NOTE:

1. THE EROSION CONTROL SUPERVISOR IS RESPONSIBLE FOR ENSURING THAT ALL STREETS, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS, PARKING LOTS, ALLEYS, TRICKLE CHANNELS, AND/OR OTHER IMPERVIOUS SURFACES IMPACTED BY CONSTRUCTION ACTIVITIES ARE THOROUGHLY CLEANED THROUGHOUT THE DAY IF THEY BECOME SOILED. THESE AREAS MUST ALSO BE THOROUGHLY CLEAN BEFORE THE END OF THE WORK DAY. FURTHERMORE, ALL LOOSE TRASH AND LITTER ASSOCIATED WITH THE PROJECT MUST BE REMOVED AND PROPERLY DISCARDED ON A DAILY BASIS.



DTC

DEBRIS AND TRASH CONTROL

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DEBRIS CONTROL NOTES:

1. A COMBINATION OF SURFACE SCRAPING AND SWEEPING MAY BE NECESSARY TO PROPERLY CLEAN THESE AREAS.
2. ALL CHEMICAL SPILLS AND/OR STAINS ON THE SITE SHALL BE CLEANED TO THE MAXIMUM EXTENT PRACTICABLE. IN SOME CASES IT MAY BE NECESSARY TO USE PRESSURIZED WATER AND A VAC-TRUCK.
3. ON-SITE PERSONNEL, DELIVERY DRIVERS, ETC., SHOULD BE EDUCATED ON THE NEED FOR CONTINUAL DEBRIS AND TRASH CONTROL.

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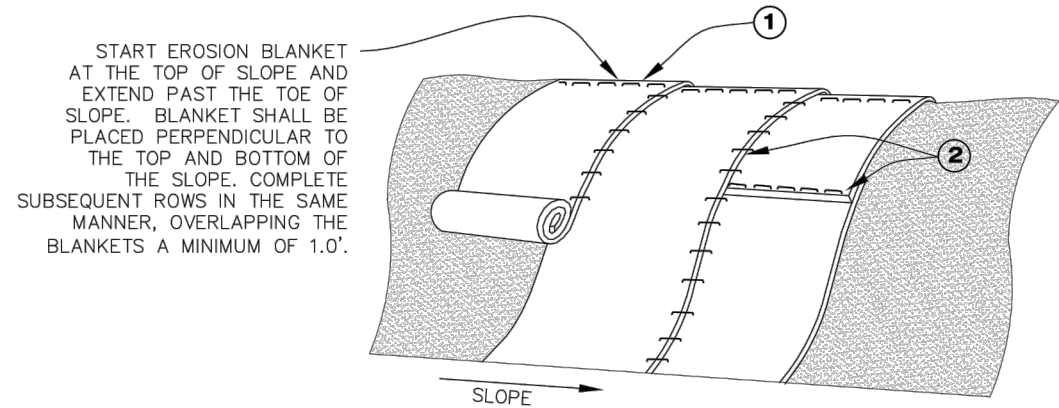
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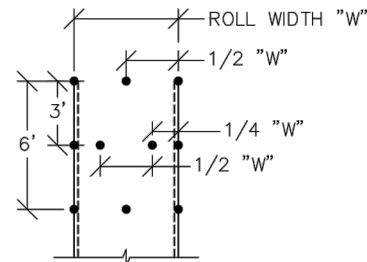
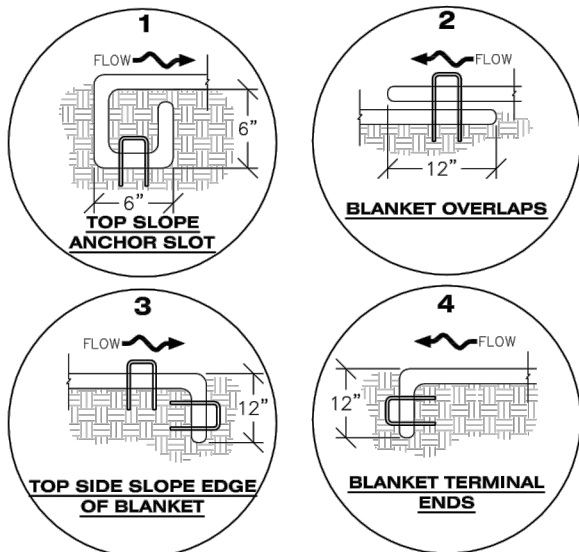
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START EROSION BLANKET AT THE TOP OF SLOPE AND EXTEND PAST THE TOE OF SLOPE. BLANKET SHALL BE PLACED PERPENDICULAR TO THE TOP AND BOTTOM OF THE SLOPE. COMPLETE SUBSEQUENT ROWS IN THE SAME MANNER, OVERLAPPING THE BLANKETS A MINIMUM OF 1.0'.



STAPLE PATTERN

NOTE: STAPLES SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATION. IF MANUFACTURER INFO IS NOT AVAILABLE THEN ABOVE STAPLE PATTERN SHALL BE USED. WOODEN STAKES SHALL NOT BE USED FOR EROSION CONTROL BLANKET ON SLOPES.

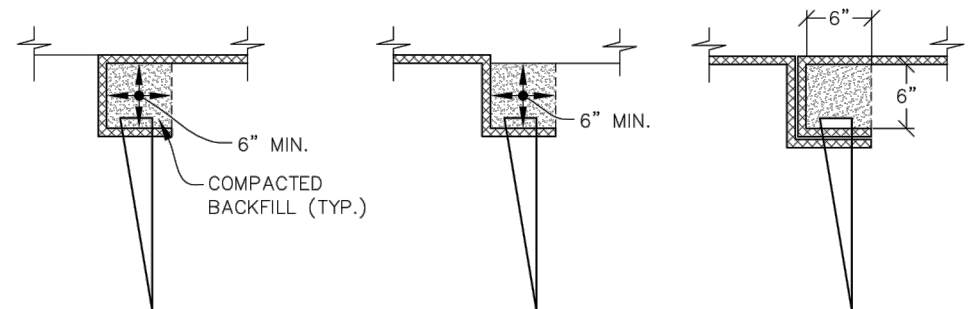
NOTE: WHEN NECESSARY, ALL SEEDING SHALL BE COMPLETED PRIOR TO THE PLACEMENT OF EROSION CONTROL BLANKETS. PLEASE SEE DETAIL SMC FOR SEEDING, MULCHING, AND CRIMPING REQUIREMENTS.



ECB

EROSION CONTROL BLANKET (SLOPE)

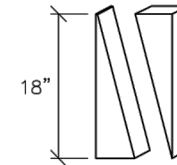
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TOE OF SLOPE ANCHOR TRENCH

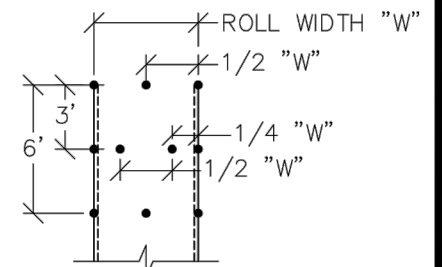
TOP OF SLOPE ANCHOR TRENCH

JOINT ANCHOR TRENCH USED TO JOIN BLANKETS TOGETHER (LONGITUDINAL)



SAW 2" x 4" LUMBER ON DIAGONAL

WOOD STAKE DETAIL
ALTERNATIVE WOOD STAKE PRODUCTS MAY BE USED WITH APPROVAL FROM THE TOWN.



STAKING PATTERN

NOTE: STAKES SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATION. IF MANUFACTURER INFO IS NOT AVAILABLE THEN ABOVE STAKING PATTERN SHALL BE USED. STAPLES SHALL NOT BE USED FOR EROSION CONTROL BLANKET IN CHANNELS.

NOTES:

- WOOD STAKES SHALL BE INSTALLED SUCH THAT ONLY 1" IS EXPOSED ABOVE THE GROUND.
- WHEN NECESSARY, ALL SEEDING SHALL BE COMPLETED PRIOR TO THE PLACEMENT OF EROSION CONTROL BLANKETS. PLEASE SEE DETAIL SMC FOR SEEDING, MULCHING, AND CRIMPING REQUIREMENTS.



ECB

EROSION CONTROL BLANKET (CHANNEL)


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| No Revisions: | Designer: CDT | Structure Numbers | |
| Revised: | Detailer: KLT | | |
| Void: | Subset: Erosion | Sheets: ED-7 of 35 | Sheet Number 101 |

EROSION CONTROL BLANKET INSTALLATION NOTES

1. SEE THE PLAN VIEW FOR THE LOCATION(S) OF THE EROSION CONTROL BLANKETS.
2. EROSION CONTROL BLANKETS USED FOR CHANNEL PROTECTION SHALL BE PROPERLY SELECTED BY THE DESIGN ENGINEER BASED ON CURRENT AND FUTURE FLOW RATES WITHIN THE CHANNEL. BASED ON THESE CALCULATIONS, TURF REINFORCEMENT MATTING OR RIPRAP MAY BE NECESSARY IN LIEU OF EROSION CONTROL BLANKETS.
3. IMMEDIATELY PRIOR TO BLANKET INSTALLATION, SOIL SURFACE SHALL BE SMOOTH. AND FREE OF ANY GAPS, VOIDS, WEEDS, ROCKS, STICKS, OR OTHER MISCELLANEOUS DEBRIS.
4. EROSION CONTROL BLANKET SHALL THEN BE INSTALLED ACCORDING TO THE DETAILED DRAWINGS.
5. ANY DAMAGED OR REMAINING STAPLES OR STAKES SHALL BE REMOVED FROM THE SITE.
6. ALL EROSION CONTROL BLANKETS FOR SLOPE PROTECTION INSTALLED IN THE TOWN SHALL BE DOUBLE NET, STRAW OR EXCELSIOR.

| | |
|----------------------|----------------|
| MANUFACTURER | PRODUCT NAME |
| NORTH AMERICAN GREEN | S150 |
| APPROVED EQUAL | APPROVED EQUAL |

7. IN MOST CASES, EROSION CONTROL BLANKETS FOR SLOPE PROTECTION ARE TO REMAIN IN PLACE PERMANENTLY.

EROSION CONTROL BLANKET MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE EROSION CONTROL BLANKETS AND MAKE ANY NECESSARY REPAIRS.

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|  | CONSTRUCTION BEST MANAGEMENT PRACTICES | 3 OF 3 Oct. 2013 |

AREA INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION(S) OF AREA INLET PROTECTION.
2. THE AREA INLET PROTECTION SHOWN ON CBMP PLANS SHALL BE INSTALLED ON EXISTING INLETS PRIOR TO ANY LAND DISTURBING ACTIVITIES OR IMMEDIATELY AFTER THE INSTALLATION OF NEW INLETS. AN INTERIM STYLE OF INLET PROTECTION MAY BE ALLOWED UNTIL THE INSTALLATION OF THE GUTTER AND/OR PAVEMENT.

AREA INLET PROTECTION INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE AREA INLET PROTECTION.
2. AREA INLET PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
3. WHEN THE AREA INLET PROTECTION IS REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE AREA INLET PROTECTION MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
4. ACCUMULATED SEDIMENT SHALL BE REMOVED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.

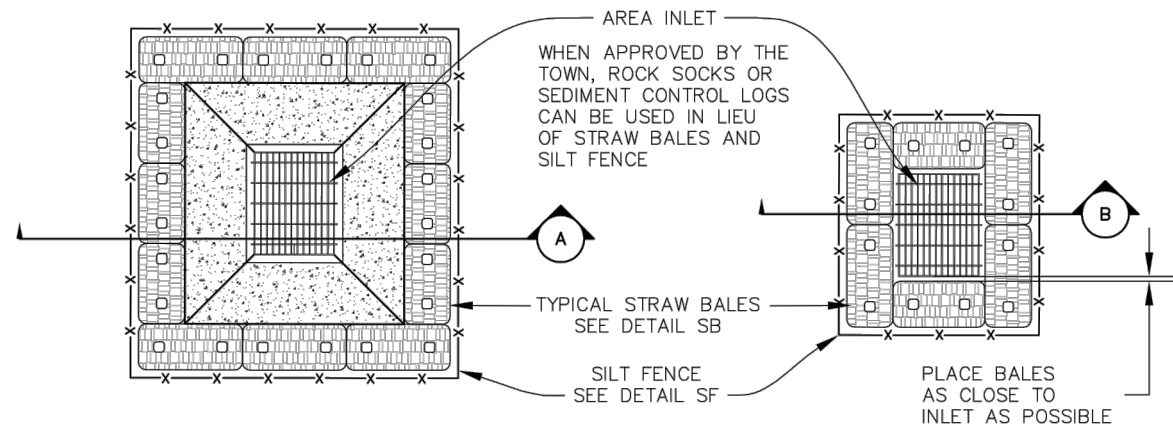
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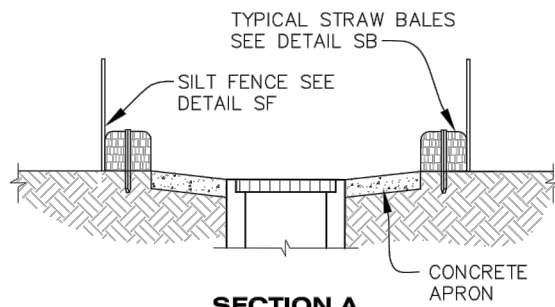
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

THIS METHOD OF INLET PROTECTION SHALL NOT BE USED ON INLETS RECEIVING SIGNIFICANT FLOWS, SUCH AS IN CERTAIN SWALES/CHANNELS OR HIGHWAY MEDIANS. INLET PROTECTION FOR AREA INLETS IN PAVEMENT (SEE DETAIL IPAP) SHALL BE USED IN THESE CONDITIONS.

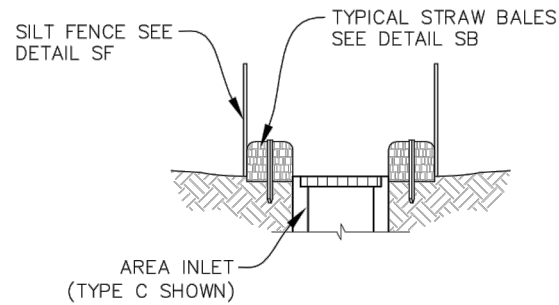


**AREA INLET WITH CONCRETE APRON
PLAN VIEW**

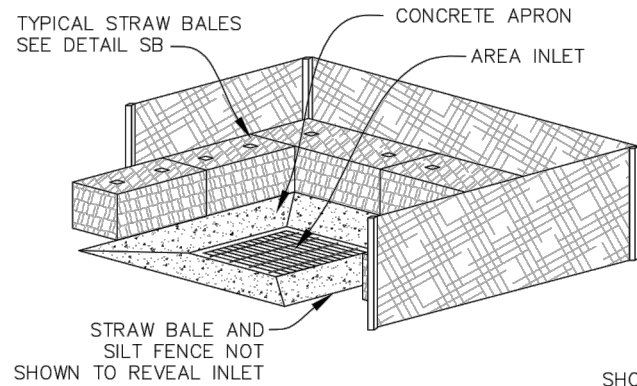
**AREA INLET
PLAN VIEW**



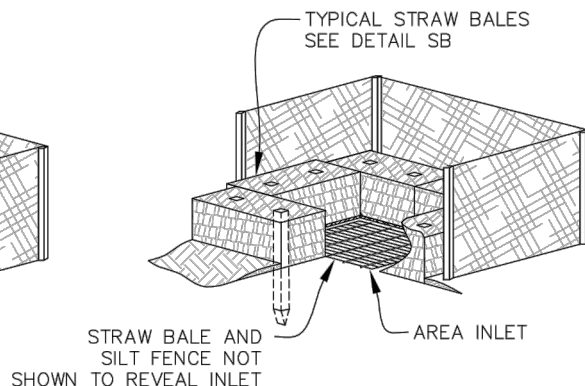
SECTION A



SECTION B



ISOMETRIC



ISOMETRIC



IPAN

INLET PROTECTION FOR AREA INLETS NOT IN PAVEMENT

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

AREA INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION(S) OF AREA INLET PROTECTION.
2. THE AREA INLET PROTECTION SHOWN ON CBMP PLANS SHALL BE INSTALLED ON EXISTING INLETS PRIOR TO ANY LAND DISTURBING ACTIVITIES OR IMMEDIATELY AFTER THE INSTALLATION OF NEW INLETS. AN INTERIM STYLE OF INLET PROTECTION MAY BE ALLOWED UNTIL THE INSTALLATION OF THE GUTTER AND/OR PAVEMENT.

AREA INLET PROTECTION INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE AREA INLET PROTECTION.
2. AREA INLET PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
3. WHEN THE AREA INLET PROTECTION IS REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE AREA INLET PROTECTION MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
4. ACCUMULATED SEDIMENT SHALL BE REMOVED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.

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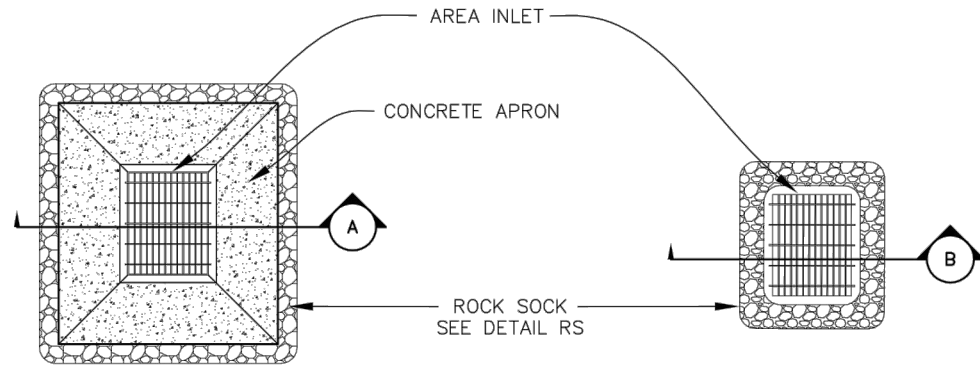
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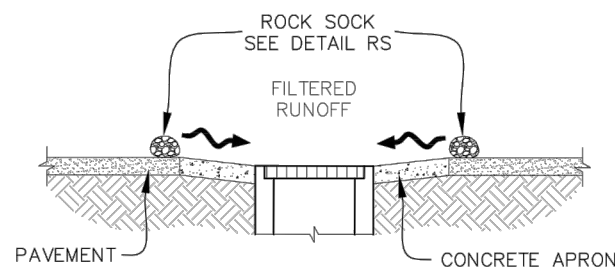
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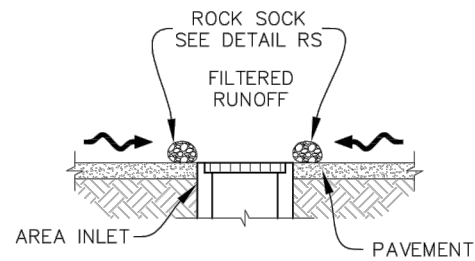


**AREA INLET WITH CONCRETE APRON
PLAN VIEW**

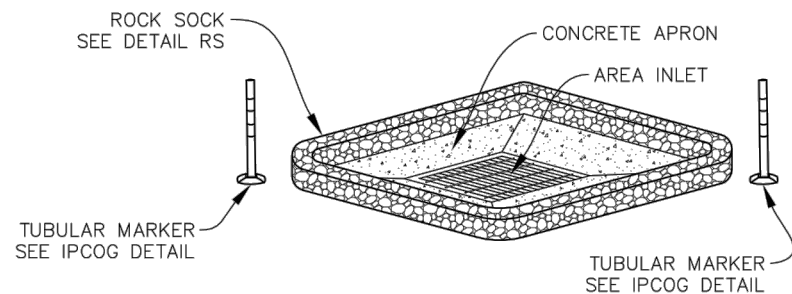
**AREA INLET
PLAN VIEW**



SECTION A



SECTION B



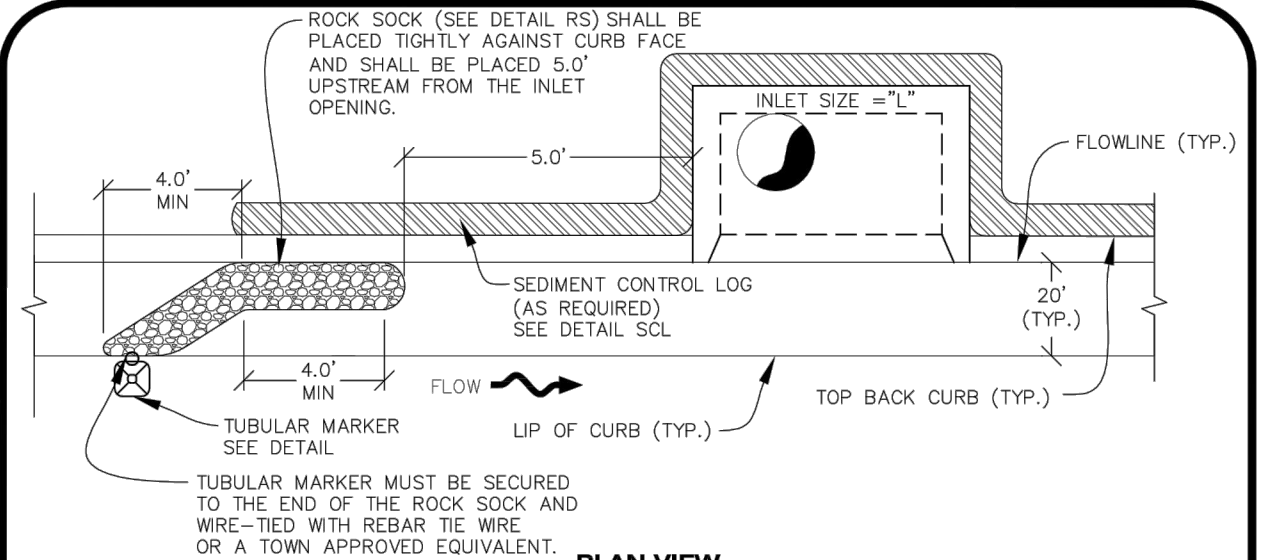
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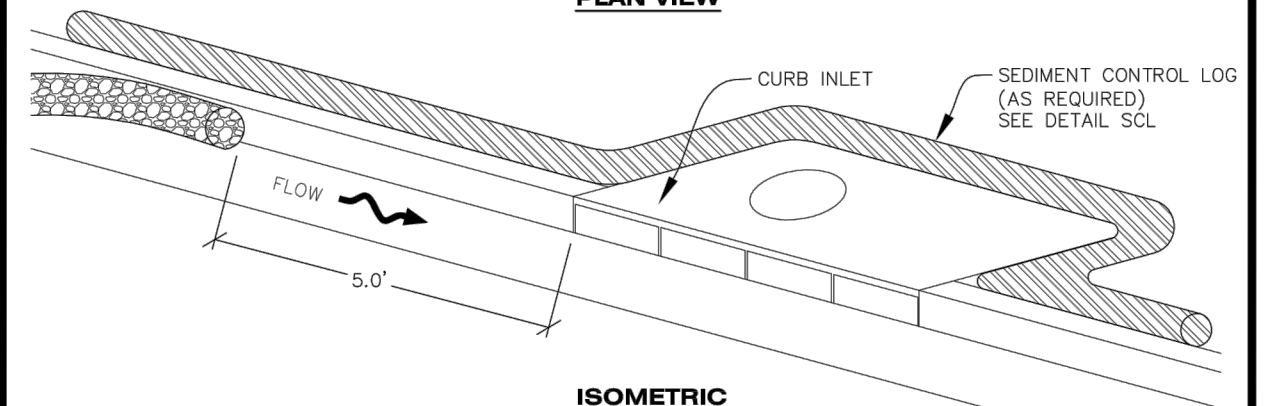
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INLET PROTECTION FOR AREA INLETS IN PAVEMENT

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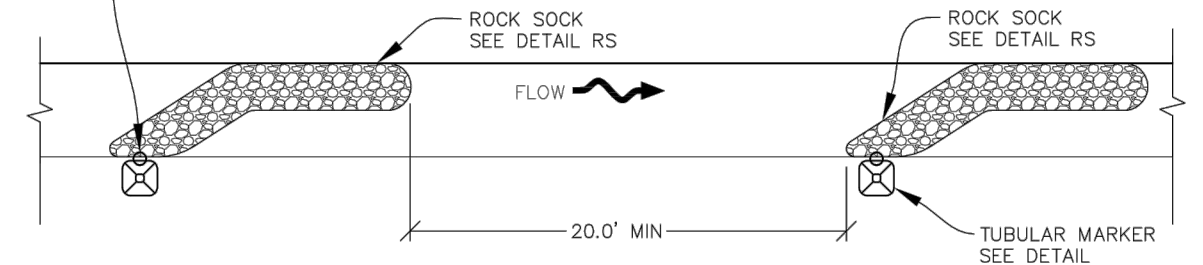


PLAN VIEW



ISOMETRIC

TUBULAR MARKER MUST BE SECURED TO THE END OF THE ROCK SOCK AND WIRE-TIED WITH REBAR TIE WIRE OR A TOWN APPROVED EQUIVALENT.



PLAN VIEW FOR MULTIPLE ROCK SOCKS



IPCOG

INLET PROTECTION, CURB ON-GRADE, TYPE R INLET



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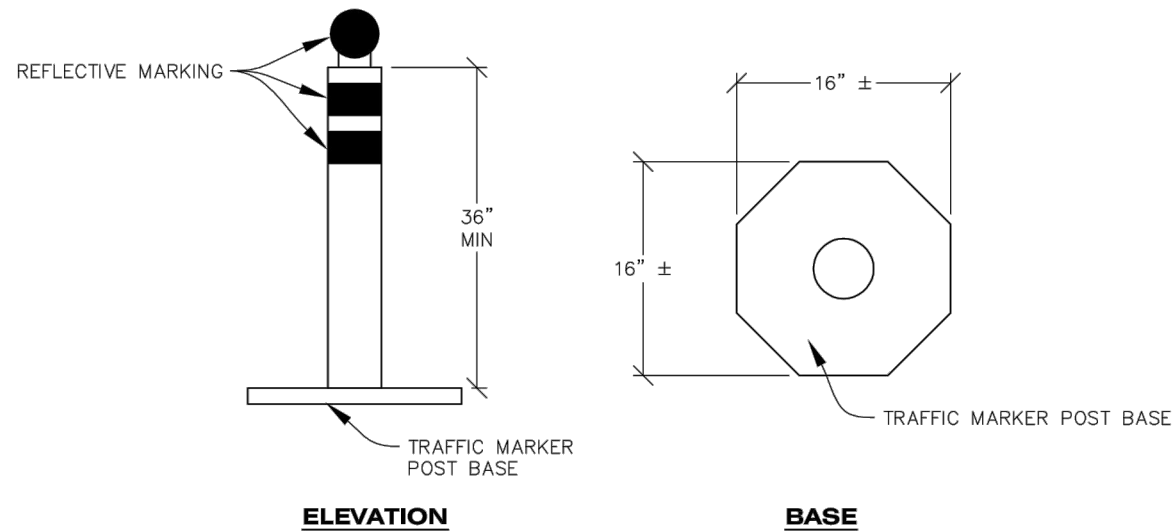
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ELEVATION

BASE

TUBULAR TRAFFIC MARKER DETAIL

INLET PROTECTION, CURB ON-GRADE INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF ON-GRADE INLET PROTECTION.
2. CRUSHED ROCK SHALL BE 2.0"–3.0" IN SIZE WITH A FRACTURED FACE (ALL SIDES).
3. ROCK SOCK FOR ON-GRADE INLET PROTECTION SHALL BE ONE CONTINUOUS PIECE.
4. ROCK SOCK SHALL BE CONSTRUCTED USING CHICKEN WIRE OR OTHER APPROVED MATERIAL, SIZED TO KEEP ROCK FROM SPILLING OUT.
5. ROCK SOCK SHALL BE PLACED 5.0' UPHILL OF THE INLET OPENING.
6. TUBULAR MARKER SHALL BE A MINIMUM OF 3.0' HIGH WITH REFLECTIVE BANDS AND OCTAGON SHAPED BASES.
7. THE CURB INLET PROTECTION SHOWN ON CBMP PLAN SHALL BE INSTALLED ON EXISTING INLETS PRIOR TO ANY LAND DISTURBING ACTIVITIES OR IMMEDIATELY AFTER THE APPLICABLE INSTALLATION OF THE FIRST LIFT OF ASPHALT ON ROADWAYS DRAINING TO THE INLET.

ON-GRADE INLET PROTECTION INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE ON-GRADE INLET PROTECTION.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.
3. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED.
4. ON-GRADE INLET PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.



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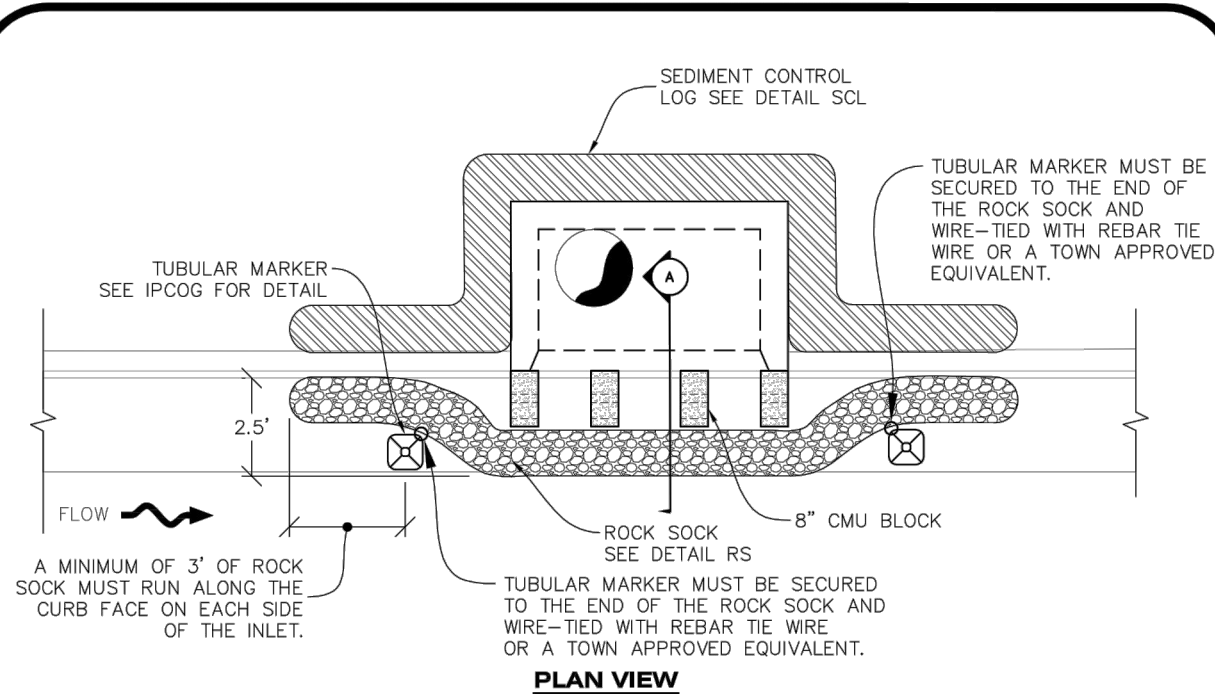
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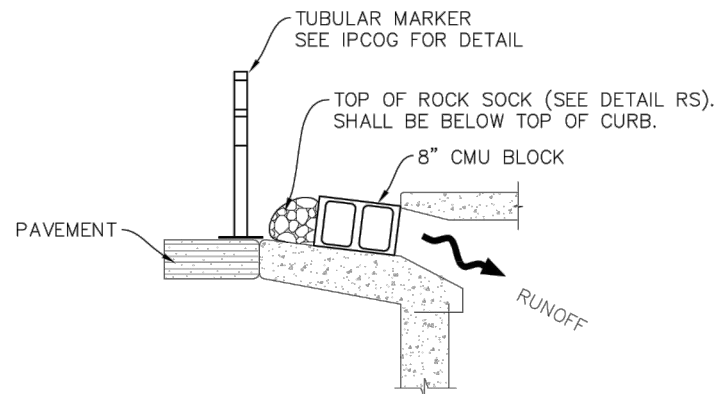


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PLAN VIEW



SECTION A



INLET PROTECTION, CURB ON SUMP, TYPE R INLET

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CURB INLET PROTECTION INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF CURB INLET PROTECTION.
2. CRUSHED ROCK SHALL BE 2.0"–3.0" IN SIZE WITH A FRACTURED FACE (ALL SIDES).
3. ROCK SOCK SHALL BE ONE CONTINUOUS PIECE OR SHALL BE CONSTRUCTED USING WIRE WRAPPED JOINTS (SEE DETAIL RS).
4. ROCK SOCK SHALL BE CONSTRUCTED USING CHICKEN WIRE OR OTHER APPROVED MATERIAL SIZED TO KEEP ROCK FROM SPILLING OUT.
5. ROCK SOCK SHALL EXTEND 3.0' ALONG THE CURB BEYOND LOCATIONS WHERE IT RETURNS TO CONTACT CURB FACE.
6. TUBULAR TRAFFIC MARKERS SHALL BE A MINIMUM OF 36" IN HEIGHT WITH REFLECTIVE BANDS AND OCTAGON SHAPED BASES.
7. THE CURB INLET PROTECTION SHOWN ON CBMP PLAN SHALL BE INSTALLED ON EXISTING INLETS PRIOR TO ANY LAND DISTURBING ACTIVITIES OR IMMEDIATELY AFTER THE INSTALLATION OF THE FIRST LIFT OF ASPHALT ON ROADWAYS DRAINING TO THE CURB INLET. CMU BLOCKS OR THE ROCK SOCK SHALL BE USED AS INTERIM PROTECTION UNTIL THE FIRST LIFT OF ASPHALT IS INSTALLED.

CURB INLET PROTECTION INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CURB INLET PROTECTION.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED AS SOON AS POSSIBLE, IMMEDIATELY IN MOST CASES.
3. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED.
4. CURB INLET PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.



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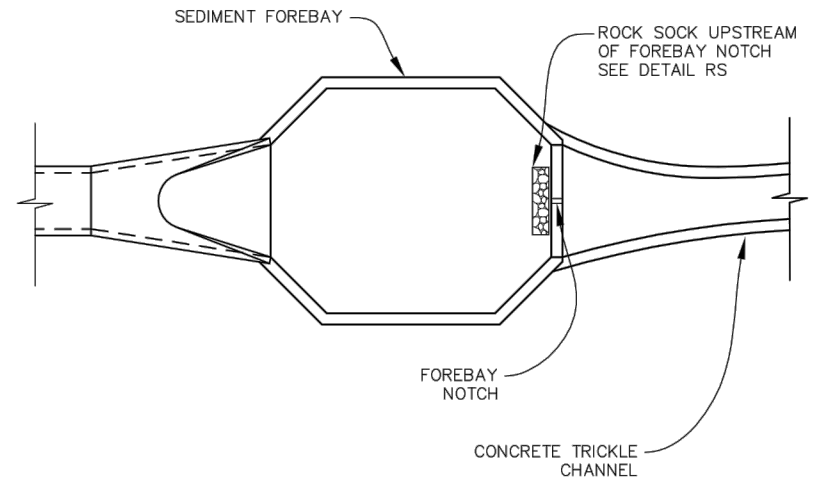
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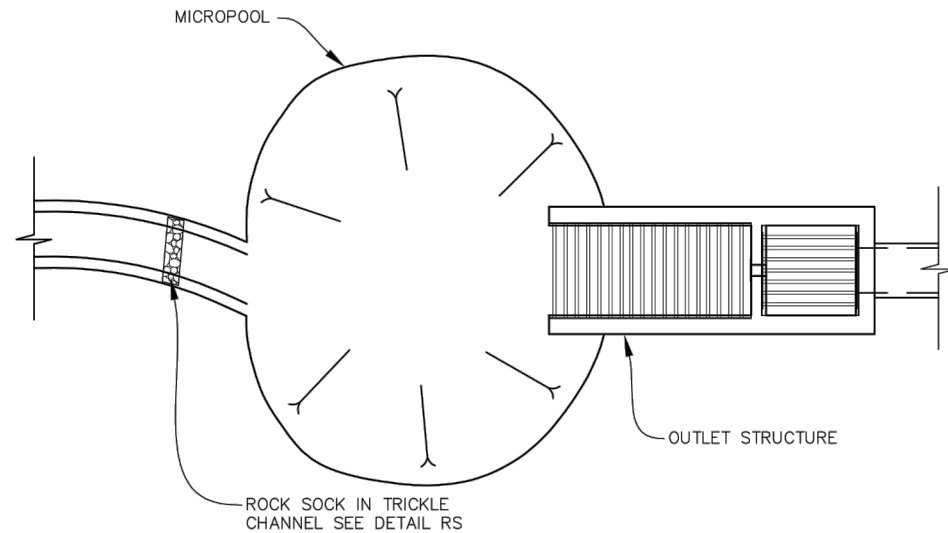
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| Revised: | Detailer: KLT | | |
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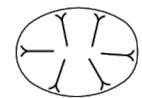
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FOREBAY



OUTLET / MICROPOOL



DETENTION POND PROTECTION

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DETENTION POND PROTECTION INSTALLATION NOTES

1. DETENTION POND PROTECTION SHALL BE INSTALLED IMMEDIATELY FOLLOWING THE CONSTRUCTION OF THE TRICKLE CHANNEL AND FOREBAY.
2. CRUSHED ROCK SHALL BE 2.0"–3.0" IN SIZE WITH A FRACTURED FACE (ALL SIDES).
3. ROCK SOCK FOR OUTLET STRUCTURE AND FOREBAY PROTECTION SHALL BE ONE CONTINUOUS PIECE (SEE DETAIL RS).

DETENTION POND PROTECTION INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE OUTLET STRUCTURE PROTECTION.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED IMMEDIATELY.
3. OUTLET STRUCTURE PROTECTION SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.



CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

DP

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Oct. 2013

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| | Detailer: KLT | | |
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NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

CONTRACTOR SHALL ANCHOR PORTABLE TOILET TO THE GROUND, AT A MINIMUM OF TWO OPPOSING CORNERS (ON A DIAGONAL) USING U-SHAPED REBAR STAKES

TOP BACK OF CURB, "DETACHED" SIDEWALK, OR OTHER IMPERVIOUS AREAS.

EDGE OF PAVEMENT

PLAN VIEW

CURB AND GUTTER (TYPICAL)

CONTRACTOR SHALL ANCHOR PORTABLE TOILET TO THE GROUND, AT A MINIMUM OF TWO OPPOSING CORNERS (ON A DIAGONAL) USING U-SHAPED REBAR STAKES

ISOMETRIC

CURB AND GUTTER (TYPICAL)



PTP

PORTABLE TOILET PROTECTION



CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

PTP

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Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

PORTABLE TOILET PROTECTION INSTALLATION NOTES

1. PORTABLE TOILETS SHALL BE PLACED A MINIMUM OF 10.0' BEHIND ALL CURBS, SIDEWALKS, AND OTHER IMPERVIOUS AREAS.
2. ALL PORTABLE TOILETS MUST BE GROUPED TOGETHER.
3. PORTABLE TOILETS SHALL BE SECURELY ANCHORED TO THE GROUND USING U-SHAPED REBAR STAKES.
4. U-SHAPED REBAR STAKES SHALL BE POSITIONED ON AT LEAST 2 OPPOSING (DIGITAL) CORNERS.

PORTABLE TOILET PROTECTION INSPECTION AND MAINTENANCE NOTES

2. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE PORTABLE TOILET PROTECTION.
3. PORTABLE TOILETS SHALL BE SERVICED AT THE NECESSARY INTERVALS TO ELIMINATE THE POSSIBILITY OF OVERFLOW.
4. WHEN THE PORTABLE TOILETS ARE REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE TOILETS MAY NEED TO BE LANDSCAPED OR ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
5. PORTABLE TOILETS THAT ARE NOT CONSISTENTLY MAINTAINED IN ACCORDANCE WITH THESE REQUIREMENTS MAY NEED TO BE CLUSTERED TOGETHER, IN ONE CENTRALIZED LOCATION IN ORDER TO INCREASE COMPLIANCE AND REDUCE THE CHANCE OF A SPILL.



CBMP

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PTP

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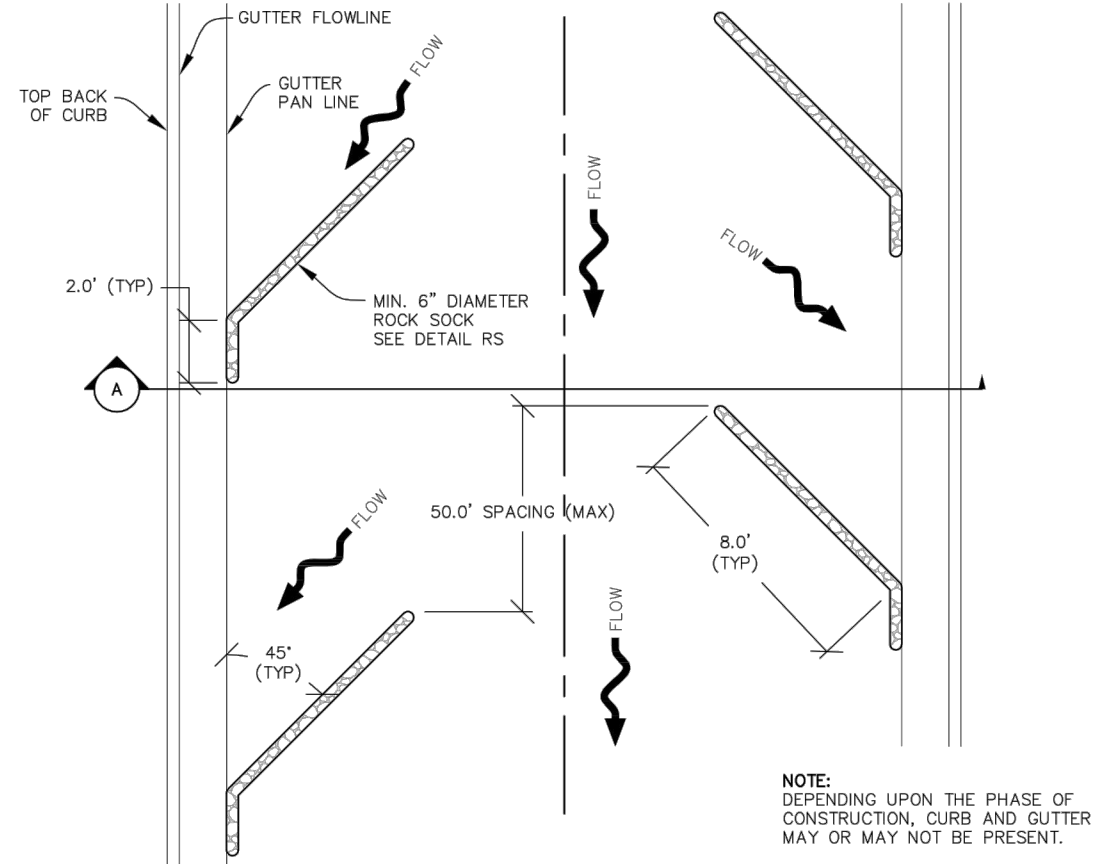
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PLAN VIEW

SECTION A

NOTE:
DEPENDING UPON THE PHASE OF
CONSTRUCTION, CURB AND GUTTER
MAY OR MAY NOT BE PRESENT.

RCSC

ROUGH CUT STREET CONTROL



CBMP
CONSTRUCTION BEST MANAGEMENT PRACTICES

RCSC
1 OF 2
Oct. 2013

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ROUGH CUT STREET CONTROL INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF ROUGH CUT STREET CONTROL.
2. THE SPACING OF THE ROUGH CUT STREET CONTROL MAY BE DETERMINED BY THE DESIGN ENGINEER AND SHOWN ON THE CBMP PLAN.

ROUGH CUT STREET CONTROL INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE ROUGH CUT STREET CONTROL.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 1/2 THE HEIGHT OF THE ROCK SOCK.
3. ROUGH CUT STREET CONTROL SHALL BE REPAIRED IMMEDIATELY FOLLOWING ANY SIGN OF WEAR OR ALTERATION OF THE ORIGINAL SHAPE AND DIMENSIONS.
4. ROUGH CUT STREET CONTROL SHALL BE KEPT IN PLACE AND MAINTAINED UNTIL SUB-GRADE PREPARATION BEGINS FOR PAVING. AT THAT POINT, THE RCSC SHOULD BE REMOVED IN INCREMENTS BASED ON SUBGRADE PREPARATION.



CBMP
CONSTRUCTION BEST MANAGEMENT PRACTICES

RCSC
2 OF 2
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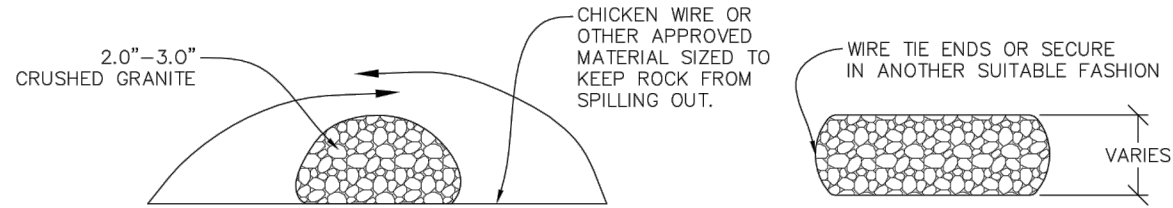
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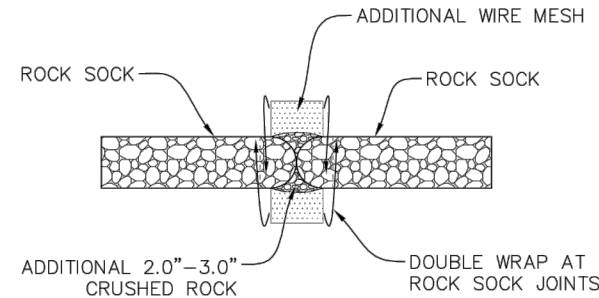
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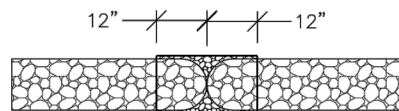


CROSS SECTION

COMPLETED ROCK SOCK



JOINT PLAN VIEW



JOINT ELEVATION

ANY GAP AT JOINT SHALL BE FILLED WITH AN ADEQUATE AMOUNT OF 2.0"–3.0" CRUSHED ROCK AND DOUBLE WRAPPED WITH ADDITIONAL CHICKEN WIRE (OR APPROVED EQUAL) SECURED TO ENDS OF ROCK REINFORCED SOCK.



RS

ROCK SOCK



CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

RS

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Oct. 2013

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ROCK SOCK INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF ROCK SOCK.
2. CRUSHED ROCK SHALL BE APPROXIMATELY 2.0"–3.0" GRANITE IN SIZE WITH A FRACTURED FACE (ALL SIDES).
3. ROCK SOCK SHALL BE APPROXIMATELY ONE CONTINUOUS PIECE OR SHALL BE CONSTRUCTED USING WIRE WRAPPED JOINTS (SEE DETAIL RS).
4. ROCK SOCK SHALL BE CONSTRUCTED USING CHICKEN WIRE OR OTHER APPROVED MATERIAL SIZED TO KEEP ROCK FROM SPILLING OUT.
5. MINIMUM ROCK SOCK DIAMETER SHALL VARY BASED ON APPLICATION (7" MIN).
6. TUBULAR MARKERS MAY NEED TO BE USED IN CONJUNCTION WITH ROCKS SOCKS ANYTIME THE ROCK SOCK IS PLACED ON A ROADWAY, SIDEWALK, PARKING LOT OR OTHER LOCATION SUSCEPTIBLE TO VEHICLE OR PEDESTRIAN TRAFFIC. TUBULAR MARKERS SHALL CONFORM TO THE TUBULAR MARKER DETAIL.

ROCK SOCK INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE ROCK SOCKS.
2. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED.
3. ROCK SOCKS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.



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CONSTRUCTION BEST MANAGEMENT PRACTICES

RS

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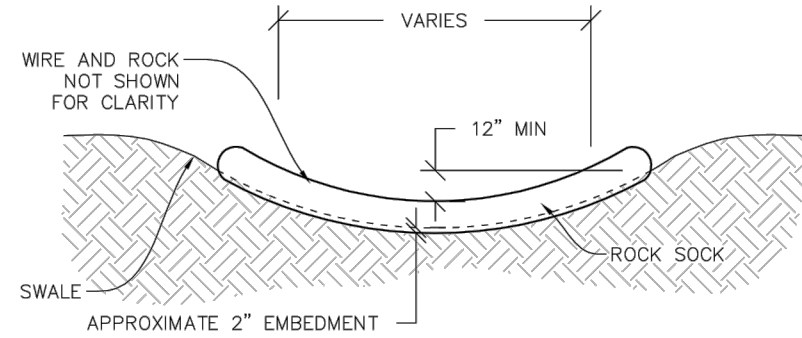
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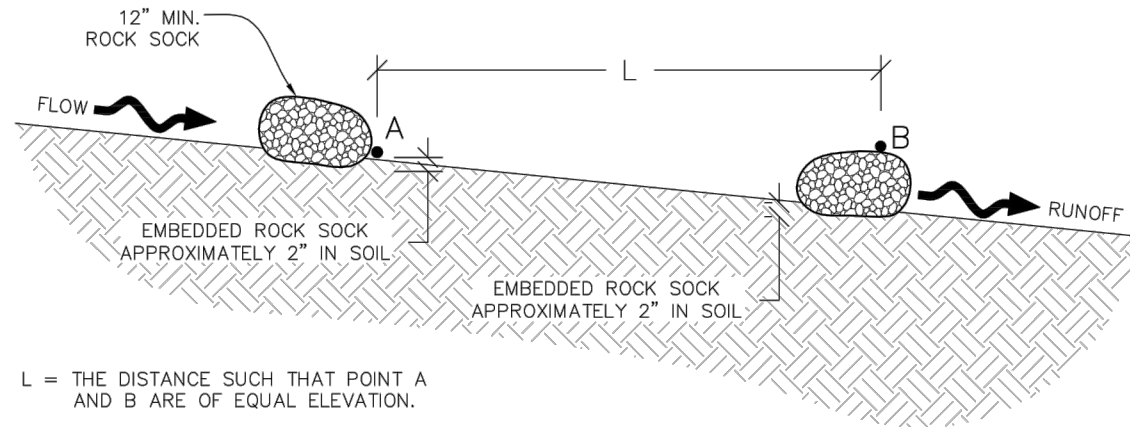
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SWALE ELEVATION



SWALE SPACING

L = THE DISTANCE SUCH THAT POINT A AND B ARE OF EQUAL ELEVATION.



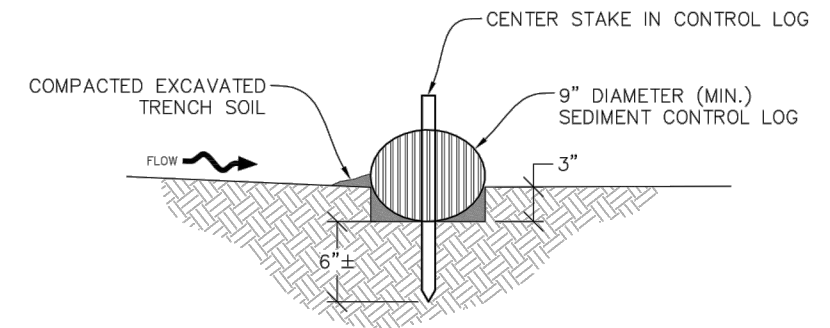
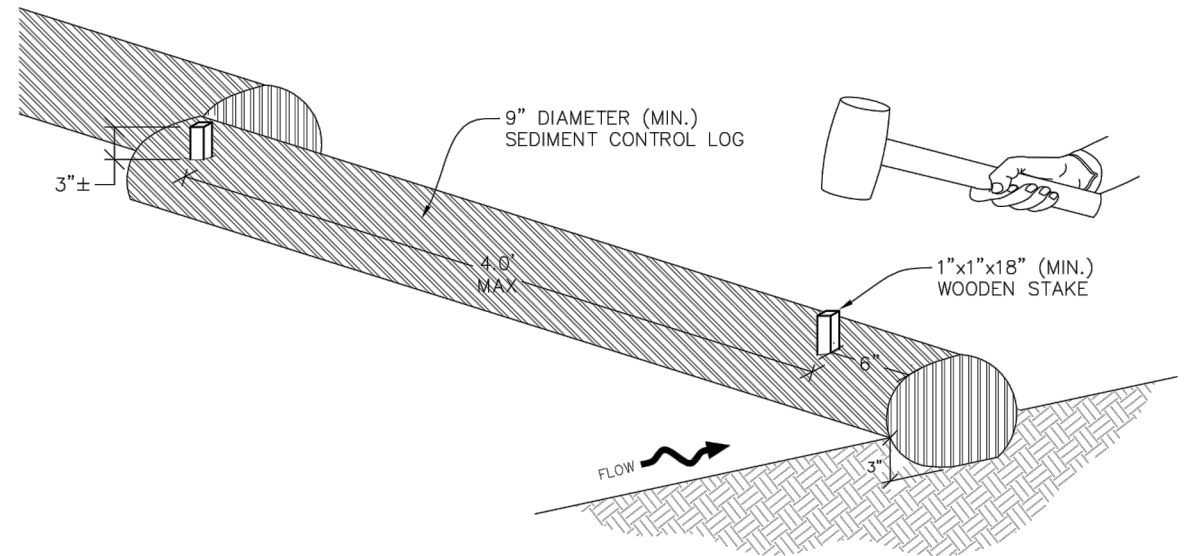
ROCK SOCK IN SWALE



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CONSTRUCTION BEST MANAGEMENT PRACTICES

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SECTION A



SEDIMENT CONTROL LOG



CBMP
CONSTRUCTION BEST MANAGEMENT PRACTICES

SCL
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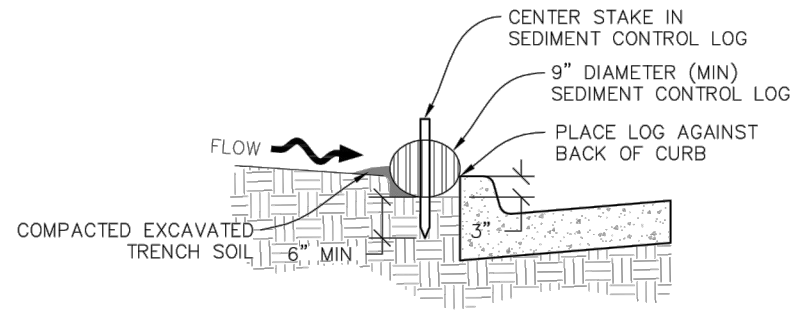
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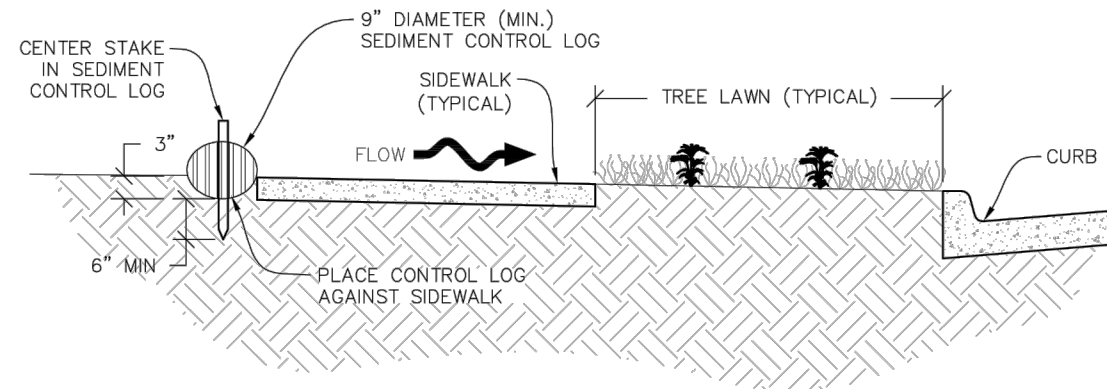
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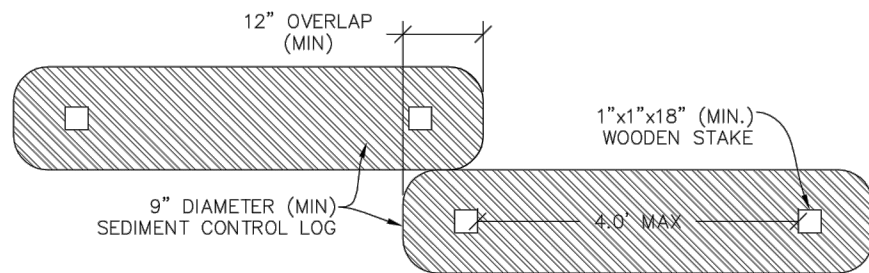
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SEDIMENT CONTROL LOG AT BACK OF CURB



SEDIMENT CONTROL LOG AT SIDEWALK WITH TREE LAWN



SEDIMENT CONTROL LOG JOINTS



SEDIMENT CONTROL LOG

SEDIMENT CONTROL LOG INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF SEDIMENT CONTROL LOGS.
2. ALL SEDIMENT CONTROL LOGS SHALL BE INSTALLED FREE OF DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
3. SEDIMENT CONTROL LOGS SHALL BE INSTALLED IMMEDIATELY ADJACENT TO AN IMPERVIOUS SURFACE SUCH AS A CURB HEAD, SIDEWALK, INLET LID, ETC. NO GAPS SHALL EXIST BETWEEN THE SEDIMENT CONTROL LOG AND THE IMPERVIOUS SURFACE.
4. A UNIFORM 3" DEEP ANCHOR TRENCH (APPROX.) IN THE SHAPE OF A HALF-SPHERE SHALL BE EXCAVATED USING A TRENCHER, SPADE-SHAPED SHOVEL, OR PICK. THE ANCHOR TRENCH SHALL BE SIZED TO ALLOW FOR THE SEDIMENT CONTROL LOG TO SEAT TIGHTLY AGAINST THE ANCHOR TRENCH.
5. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE ANCHOR TRENCH AND PROPERLY COMPACTED.
6. ANCHOR TRENCH SHALL BE RELATIVELY FREE OF ROCKS OR OTHER DEBRIS PRIOR TO THE PLACEMENT.
7. ALL SEDIMENT CONTROL LOGS SHALL BE PLACED 3" (APPROX.) BELOW THE GROUND AND PULLED TIGHT ON BOTH ENDS TO REMOVE ANY CURVES OR SNAGS.
8. THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL THAT IS RELATIVELY FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED AGAINST THE GROUND AND SEDIMENT CONTROL LOG USING A SHOVEL, OR SIMILAR DEVICE.
9. SEDIMENT CONTROL LOG STAKES SHALL BE MADE OF WOOD AND SECURELY ANCHOR THE SCL IN PLACE.
10. STAKES SHALL BE PLACED ON 4.0' CENTERS AND EMBEDDED APPROXIMATELY 6" INTO THE GROUND. STAKES THAT ARE BROKEN PRIOR TO OR DURING INSTALLATION SHALL BE REPLACED.
11. SEDIMENT CONTROL LOGS SHALL OVERLAP A MINIMUM OF 12". THE OVERLAPPING SHALL OCCUR ON THE UP-GRADIENT SIDE OF THE LOGS.
12. SEDIMENT CONTROL LOGS SHALL BE STAKED WITHIN 6" FROM EACH END.
13. SEDIMENT CONTROL LOGS THAT ARE INSTALLED BEHIND CURBS AND SIDEWALKS MUST BE DONE SO THAT NO MORE THAN A 2" GAP EXISTS BETWEEN THE CONCRETE AND THE LOG. EROSION CONTROL BLANKETING (ECB) BETWEEN THE GAP MAY BE REQUIRED IN INSTANCES WHERE THIS DOES NOT OCCUR.

SEDIMENT CONTROL LOG INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SEDIMENT CONTROL LOGS.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE THE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 THE HEIGHT OF EXPOSED LOG.
3. SEDIMENT CONTROL LOGS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
4. SEDIMENT CONTROL LOGS SHALL BE REPLACED WHEN THERE ARE ANY SIGNS OF WEAR OR DAMAGE THAT WOULD PREVENT THE SCL FROM FUNCTIONING AS DESIGNED.
5. WHEN THE SEDIMENT CONTROL LOGS ARE REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE SEDIMENT CONTROL LOGS MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).

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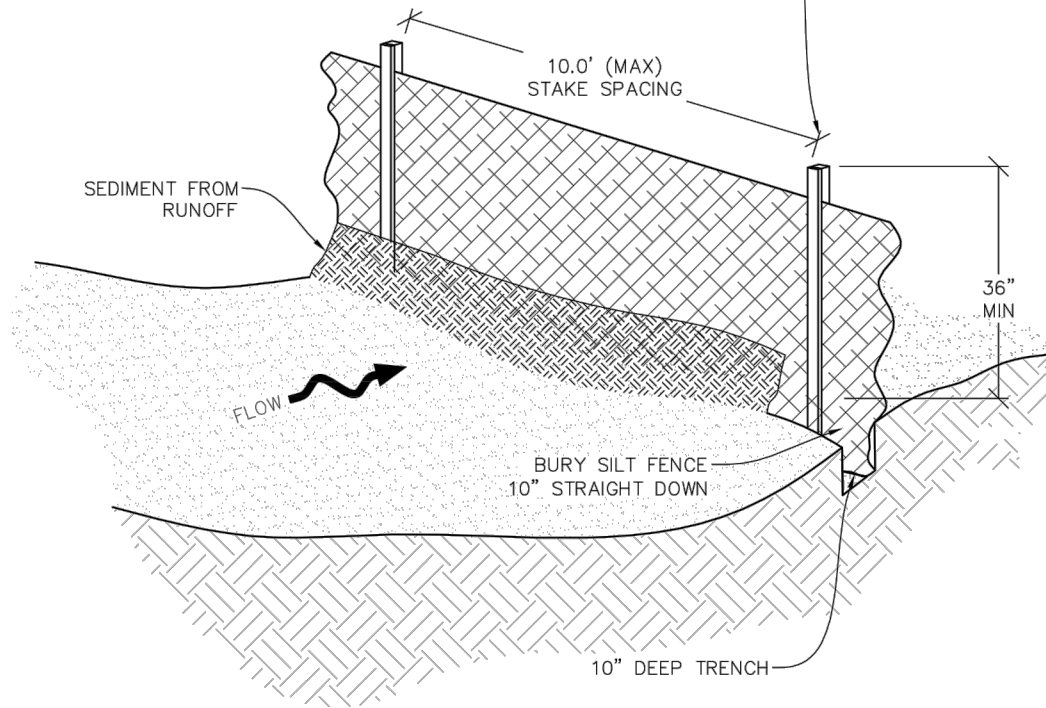
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A MIN. OF 1"x1"x48" WOODEN STAKES SHALL BE PLACED ON THE DOWNHILL SIDE OF THE SILT FENCE FABRIC. A 1-1/2" X 1/4" STAKE OR LATH SHALL BE STAPLED OR NAILED TO THE 48" STAKE ON THE UPHILL SIDE OF THE FABRIC SUCH THAT IT IS FLUSH AGAINST THE FABRIC AND STAKE. LENGTH OF STAKE IS DEPENDENT UPON HEIGHT OF FENCE. ALSO SEE ALTERNATIVE INSTALLATION - 360° TWIST DETAIL.



X X (SF) **SILT FENCE**



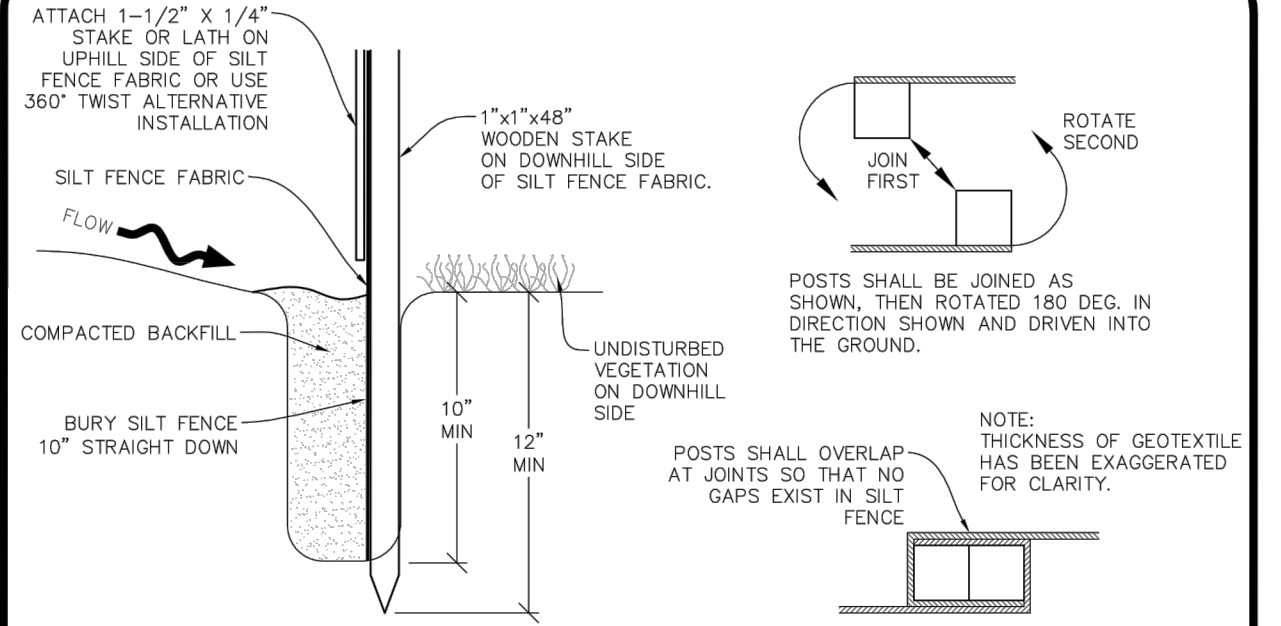
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CONSTRUCTION BEST MANAGEMENT PRACTICES

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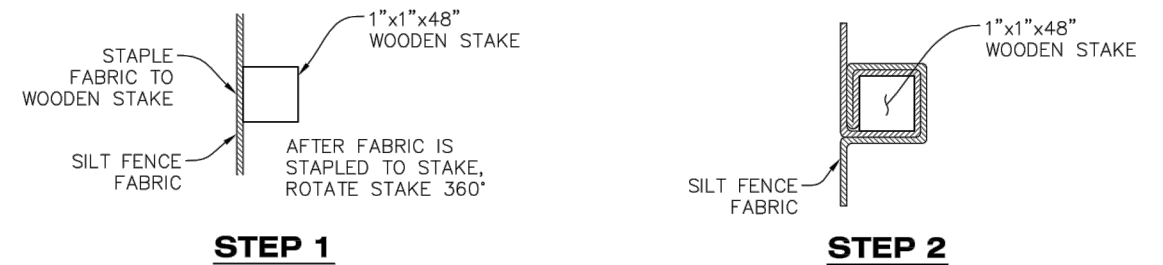
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INSTALLATION DETAIL

JOINT SECTIONS



ALTERNATIVE INSTALLATION - 360° TWIST

X X (SF) **SILT FENCE**



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CONSTRUCTION BEST MANAGEMENT PRACTICES

SF

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SILT FENCE INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF SILT FENCE.
2. ALL SILT FENCE SHALL BE INSTALLED IN GOOD CONDITION AND FREE OF ANY DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
3. A UNIFORM 10" DEEP ANCHOR TRENCH SHALL BE EXCAVATED USING A TRENCHER.
4. A 10" DEEP ANCHOR SLIT SHALL BE FORMED IF USING A STATIC SLICING METHOD.
5. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF THE ANCHOR TRENCH.
6. ANCHOR TRENCH SHALL BE GENERALLY FREE OF ROCKS OR OTHER DEBRIS PRIOR TO THE PLACEMENT OF THE SILT FENCE.
7. THE ANCHOR TRENCH SHALL BE THOROUGHLY BACKFILLED WITH SOIL THAT IS GENERALLY FREE OF ROCKS AND DEBRIS.
8. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE UP-GRADIENT SIDE OF THE SILT FENCE.
9. STAKES SHALL BE POSITIONED ON THE DOWNHILL SIDE OF THE SILT FENCE FABRIC AND PLACED ON 10.0' CENTERS OR LESS. STAKES SHALL BE EMBEDDED A MINIMUM OF 12" INTO THE GROUND. A WOODEN LATH SHALL BE ATTACHED TO THE OPPOSING (UPHILL) SIDE OF THE STAKE FOR ADDED STRENGTH AND SUPPORT. THE LATH SHALL HAVE THE FOLLOWING DIMENSIONS: 1"x¼"x24".
10. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD NOT BE SIGNIFICANT SAGGING ALONG ANY PORTION OF THE SILT FENCE AFTER IT HAS BEEN ANCHORED TO THE STAKES.
11. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES AND LATHS USING STAPLES OR NAILS OF AN APPROXIMATE LENGTH. ENOUGH STAPLES AND NAILS SHOULD BE PLACED ALONG THE LATH TO ENSURE PROPER ATTACHMENT.
12. SILT FENCE FABRIC SHALL MEET THE FOLLOWING MANDATORY REQUIREMENTS:

| PROPERTIES | TEST METHOD | MANDATORY REQUIREMENTS |
|-------------------------|-------------|-----------------------------------|
| GRAB TENSILE STRENGTH | ASTM D 4632 | ≥ 124 LBS |
| MULLEN BURST STRENGTH | ASTM D 3786 | ≥ 300 PSI |
| PUNCTURE STRENGTH | ASTM D 4833 | ≥ 60 LBS |
| TRAPEZOID TEAR STRENGTH | ASTM D 4533 | ≥ 65 LBS |
| UV RESISTANCE | ASTM D 4355 | ≥ 80% AT 500 HOURS OF UV EXPOSURE |
| FLOW RATE | ASTM D 4491 | ≥ 10 GAL/MIN/FT2 |

13. AN ORIGINAL PRODUCT SPECIFICATION SHEET FROM THE SILT FENCE MANUFACTURER SHALL BE MADE AVAILABLE AT THE REQUEST OF THE TOWN'S INSPECTOR. THE PRODUCT SPECIFICATION SHEET SHALL PROVIDE THE RESULTS FOR THE TEST METHODS ABOVE.
14. SILT FENCE JOINTS SHALL BE CONNECTED ACCORDING TO THE ATTACHED DRAWING.
15. SILT FENCE THAT IS INSTALLED BEHIND CURBS AND SIDEWALKS MUST BE DONE SO THAT NO MORE THAN A 2" GAP EXISTS BETWEEN CONCRETE AND THE SILT FENCE. EROSION CONTROL BLANKETING (ECB) BETWEEN THE GAP MAY BE REQUIRED IN INSTANCES WHERE THIS DOES NOT OCCUR.



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SILT FENCE INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SILT FENCE.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED REGULARLY.
3. SILT FENCE SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
4. SILT FENCE SHALL BE REPLACED WHEN THERE ARE ANY SIGNS OF WEAR AND/OR DAMAGE.
5. WHEN THE SILT FENCE IS REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE SILT FENCE MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).



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SEEDING AND MULCHING SHALL BE PERFORMED ACCORDING TO THE ACCOMPANYING DETAIL(S) AND TEXT. NO EXCEPTIONS SHALL BE MADE

1. SEE PLAN VIEW FOR:
 - LOCATION(S) OF SEEDING AND MULCHING
 - TYPE OF SEED MIX
2. SEED MIXES MAY CONFORM TO THE TABLE PROVIDED WITH THE SMC NOTES OR ALTERNATIVES MAY BE ALLOWED WITH PRIOR PERMISSION BY THE TOWN'S INSPECTOR.
3. SEEDING MAY BE PERFORMED YEAR ROUND ASSUMING THE SOIL IS NOT FROZEN. SEEDING DURING TIMES OF EXTREME TEMPERATURES SHOULD BE AVOIDED IF POSSIBLE.
4. AT THE BEGINNING OF THE LAND DISTURBANCE ACTIVITIES, IT IS HIGHLY RECOMMENDED THAT AN APPROPRIATE AMOUNT OF NATIVE TOPSOIL BE STRIPPED FROM THE SITE AND STOCKPILED. ALL AREAS, PRIOR TO PERMANENT SEEDING AND MULCHING, WILL LIKELY NEED TO BE COVERED WITH AN APPROPRIATE LAYER OF TOPSOIL. THIS REQUIREMENT APPLIES TO ALL AREAS WHERE NATIVE SEEDING IS SPECIFIED ON THE CBMP PLAN AND/OR LANDSCAPING PLANS.
5. IT IS STRONGLY RECOMMENDED THAT SAMPLES FROM THE STRIPPED TOPSOIL BE PROPERLY COLLECTED AND TESTED BY A QUALIFIED LABORATORY TO ENSURE ADEQUATE NUTRIENT CONTENT PRIOR TO SEEDING AND MULCHING. IF IT IS DISCOVERED THAT THE TOPSOIL IS VOID OF THE NUTRIENTS NECESSARY TO SUCCESSFULLY ESTABLISH THE REQUIRED VEGETATION, THEN THE APPROPRIATE AMENDMENTS SHALL BE ADDED.
6. ALL AREAS TO BE SEEDED AND MULCHED SHALL BE SURFACE ROUGHENED ACCORDING TO THE SURFACE ROUGHENING DETAILS AND NOTES. SURFACE ROUGHENING SHALL OCCUR AFTER PLACEMENT OF THE TOPSOIL.
7. WHEN INSTALLED WITH A DRILL SEEDER, SEED SHALL BE PLACED AT A DEPTH OF ¼ - ½ INCH. ROW SPACING SHALL BE NO MORE THAN 6-INCHES.
8. ALL AREAS INCAPABLE OF BEING DRILL SEEDED SHALL BE SURFACE ROUGHENED ACCORDING TO THE SURFACE ROUGHENING NOTES OR EFFECTIVELY ROUGHENED USING A HARROW OR OTHER SUCH IMPLEMENT. ALL AREAS SHALL BE UNIFORMLY HAND BROADCASTED WITH THE PROPER SEED MIX APPLIED AT TWO TIMES THE DRILL SEEDED RATE. BROADCASTED AREAS SHALL THEN BE RE-HARROWED OR RE-RAKED USING A HARD-TIPPED RAKE TO ENSURE THAT SEEDS ARE BURIED TO AN APPROXIMATE DEPTH OF ¼ - ½ INCH.
9. AFTER SEEDING HAS BEEN COMPLETED, MULCH SHALL BE UNIFORMLY APPLIED AT A RATE OF 2 TONS/ACRE (4,000 LBS/ACRE). MULCH SHALL BE MECHANICALLY CRIMPED TO A DEPTH OF 2 INCHES USING A CRIMPER. MULCH SHALL BE HAND CRIMPED AND COVERED WITH A TACKIFIER IN AREAS WHERE MECHANICAL CRIMPING IS NOT POSSIBLE. WHEN SOILS PERMIT, ALL MULCH SHALL BE CRIMPED SUCH THAT THE INDIVIDUAL PIECES OF STRAW OR HAY FORM EXAGGERATED V-SHAPES PROTRUDING OUT OF THE GROUND SEVERAL INCHES.
10. IN CERTAIN INSTANCES, IT MAY BE NECESSARY TO APPLY A TACKIFIER IN ORDER TO HELP WITH STRAW DISPLACEMENT. TACKIFIER SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

SEEDING AND MULCHING MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SEEDING AND MULCHING.
2. ANY SEEDED AND MULCHED AREAS THAT BECOME DAMAGED SHALL BE REPAIRED WITHIN THE TIME FRAME SPECIFIED BY THE TOWN'S INSPECTOR.

WEED MANAGEMENT

1. ALL HERBICIDES SHALL BE APPLIED BY COMMERCIAL PESTICIDE APPLICATORS LICENSED BY THE COLORADO DEPARTMENT OF AGRICULTURE AS QUALIFIED APPLICATORS. THE CONTRACTOR SHALL FURNISH DOCUMENTATION OF SUCH LICENSING PRIOR TO HERBICIDE APPLICATION.
2. HERBICIDE APPLICATION METHOD SHALL BE SUCH THAT PLANT GROWTH OUTSIDE THE DESIGNATED TREATMENT AREAS WILL NOT BE DAMAGED. ALL DAMAGE CAUSED BY IMPROPER HERBICIDE APPLICATION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. HERBICIDES SHALL BE APPLIED DURING THE APPROPRIATE SEASONS, WHEN TARGET PLANTS ARE ACTIVELY GROWING.
4. AFTER THE GRASS SEED IS ESTABLISHED, APPROPRIATE HERBICIDES SHALL BE APPLIED TO CONTROL THE REMAINING WEEDS TO ENSURE A TIMELY RETURN OF THE FINANCIAL SECURITY. PROPER TIMING OF HERBICIDE APPLICATIONS ARE NECESSARY TO ACHIEVE THE SUPPRESSION OF WEED SEED PRODUCTION AND DEPLETION OF WEED ROOT MASS. ULTIMATELY, THE HERBICIDES USED SHALL BE BASED UPON THE TARGET WEEDS.
5. HERBICIDE TREATMENTS SHALL CONTINUE AT AN APPROPRIATE RATE UNTIL IT IS EVIDENT THAT WEED GROWTH PRESENCE AND GROWTH IS MINIMAL AND MAY BE CONTROLLED THROUGH MOWING AND/OR ANNUAL HERBICIDE TREATMENT.



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TOWN OF PARKER, SEED MIX 1

- 20% CANADA WILD RYE
- 15% CRESTED WHEATGRASS
- 15% SLENDER WHEATGRASS
- 10% ANNUAL RYEGRASS
- 10% SHEEP FESCUE
- 10% BIG BLUESTEM
- 10% SIDEOATS GRAMA
- 5% CANADA BLUEGRASS
- 5% BLUE GRAMA

SEEDING RATE:

DRILLED: 25 LBS/ACRE
BROADCAST: 50 LBS/ACRE

TOWN OF PARKER, SEED MIX 2

- 22% SLENDER WHEATGRASS
- 18% SODAR STREAMBANK WHEATGRASS
- 13% ARIZONA FESCUE
- 13% BLUE GRAMA
- 12% BUFFALOGRASS
- 12% BARLEY OR OATS
- 5% SPIKE MUHLY
- 5% INDIAN RICEGRASS

SEEDING RATE:

DRILLED: 25 LBS/ACRE
BROADCAST: 50 LBS/ACRE

TOWN OF PARKER, SEED MIX 3 (LOW-GROWTH MIX)

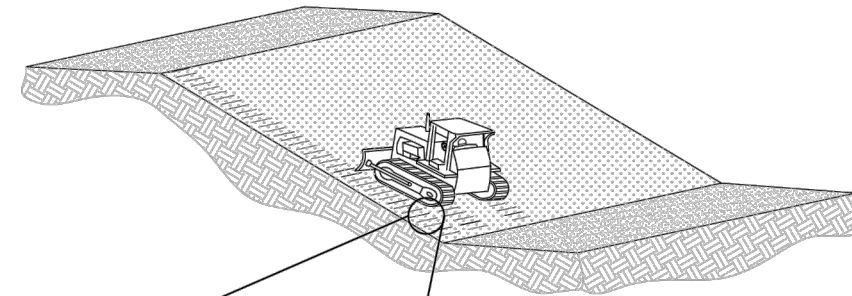
- 25% EPHRAIM CRESTED WHEATGRASS
- 23% SHEEP FESCUE
- 18% PERENNIAL RYEGRASS
- 13% CANADA BLUEGRASS
- 12% BARLEY OR OATS
- 9% BLUE FESCUE

SEEDING RATE:

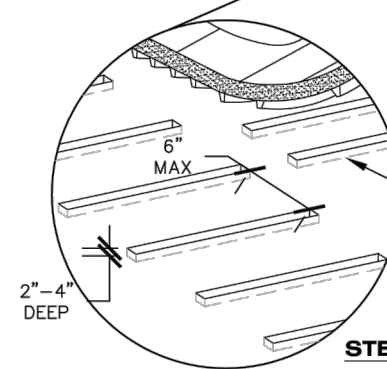
DRILLED: 25 LBS/ACRE
BROADCAST: 50 LBS/ACRE

SEED MIX 4:

OTHER SEED MIXES APPROVED BY THE TOWN OF PARKER

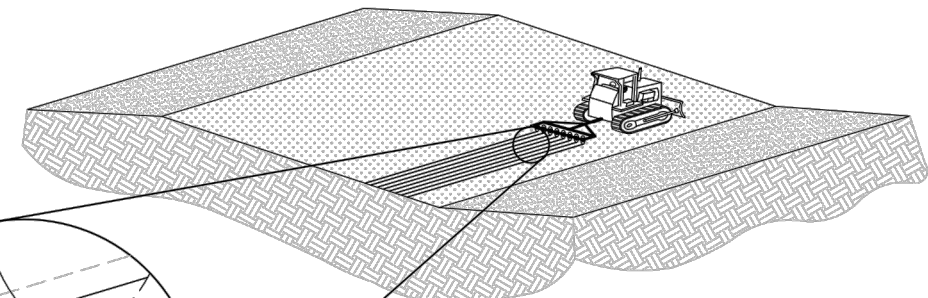


PROVIDE A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS. CAN BE COMPLETED WITH A TILLAGE OR OTHER EQUIPMENT WITH SIMILAR EFFICIENCY. LEAVE SLOPES IN A ROUGHENED CONDITION WITHOUT FINE GRADING. HOWEVER, SURFACE ROUGHENING SHOULD BE PERFORMED AFTER FINE GRADING. ROUGHENING CANNOT BE USED AS A CBMP IF SANDY OR ROCKY SOIL IS PRESENT.

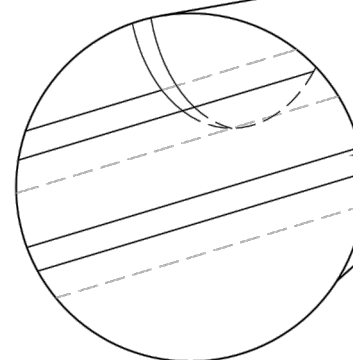


FURROWS 2" TO 4" DEEP ON 6" CENTERS WITH 6" MAXIMUM SPACING PARALLEL TO CONTOURS OF SLOPE

STEEP SLOPES (3:1 OR STEEPER)



ROUGHENED ROWS SHALL BE 2" TO 4" DEEP ON 6" CENTERS WITH 6" MAXIMUM SPACING PARALLEL TO CONTOURS OF SLOPE



SURFACE ROUGHENING SHALL BE PERFORMED IMMEDIATELY AFTER FINAL GRADES HAVE BEEN ACHIEVED, UNLESS REQUIRED SOONER PER REGULATIONS. FILL SLOPES CAN BE CONSTRUCTED WITH A ROUGHENED SURFACE. CUT SLOPES THAT HAVE BEEN SMOOTH GRADED SHALL BE ROUGHENED AS A SUBSEQUENT OPERATION.

LESSER SLOPES (LESS THAN 3:1)



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SURFACE ROUGHENING



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SURFACE ROUGHENING INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF SURFACE ROUGHENING.
2. ANY DISTURBED LAND THAT REMAINS INACTIVE FOR MORE THAN 14 CONSECUTIVE DAYS MUST RECEIVE SURFACE ROUGHENING. DETERMINATION OF JOB SITE INACTIVITY IS AT THE DISCRETION OF THE TOWN'S INSPECTOR.
3. SURFACE ROUGHENING SHALL BE PERFORMED PERPENDICULAR TO THE SLOPE.
4. SOIL SHALL BE ROUGHENED A MINIMUM OF 6-INCHES DEEP USING RIGID SHANKS.
5. A FARMING DISC SHALL NOT BE USED FOR SURFACE ROUGHENING.
6. FOR STEEP SLOPES (3:1 OR STEEPER), IT IS ACCEPTABLE TO "TRACK" THE SLOPES, ACCORDING TO THE CBMP DETAILS.

SURFACE ROUGHENING INSPECTION AND MAINTENANCE NOTES

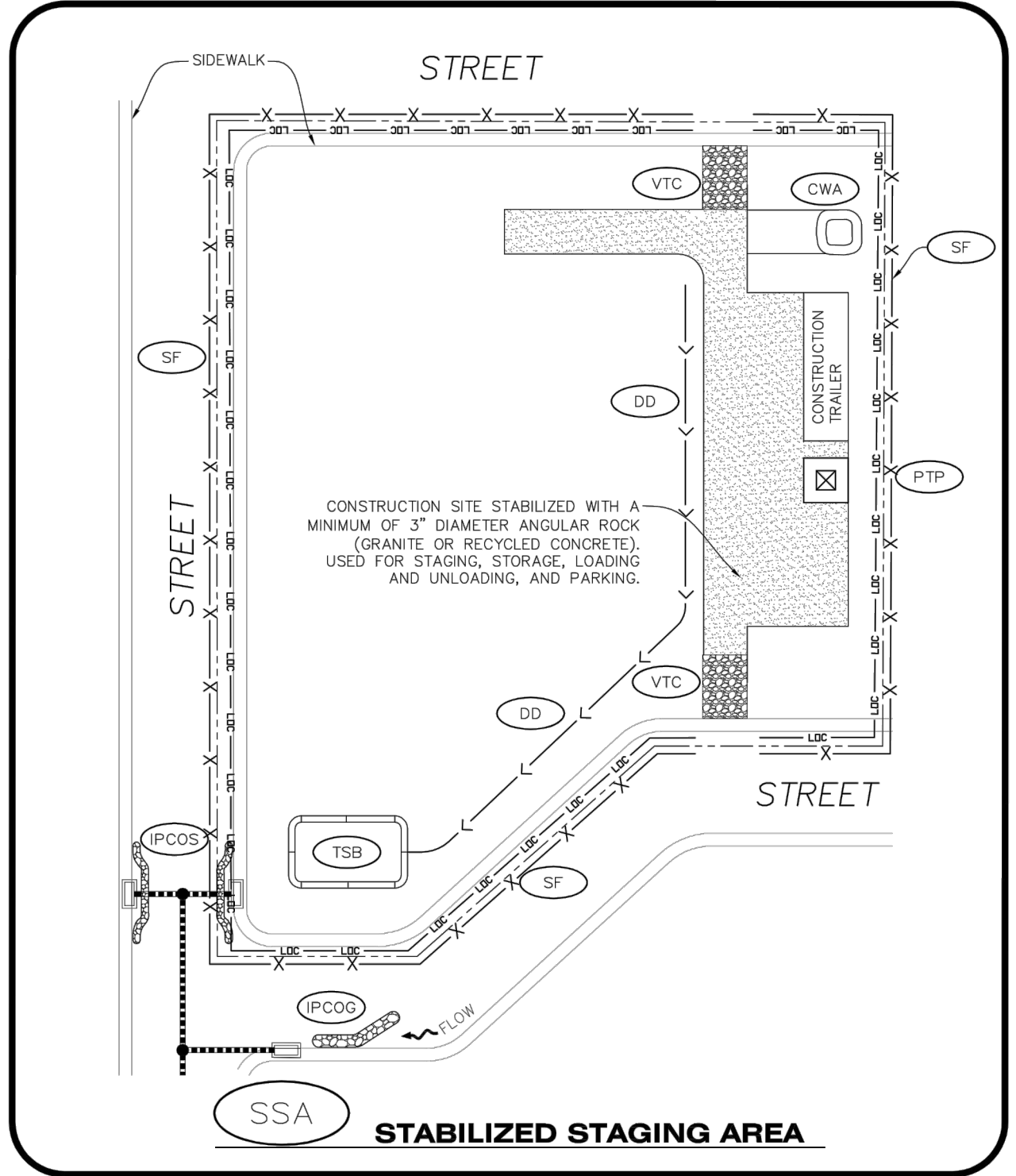
1. THE EROSION CONTROL SUPERVISOR SHALL INSPECT THE SURFACE ROUGHENING AT THE FOLLOWING INTERVALS:
 - IMMEDIATELY FOLLOWING INITIAL INSTALLATION.
 - EVERY 7 DAYS DURING ACTIVE CONSTRUCTION.
 - IMMEDIATELY FOLLOWING ANY STORM EVENT.



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STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION OF STAGING AREA. CONTRACTOR MAY MODIFY LOCATION AND SIZE OF STABILIZED STAGING AREA WITH TOWN APPROVAL.
2. STABILIZED STAGING AREA SHALL BE LARGE ENOUGH TO FULLY CONTAIN PARKING, STORAGE, AND LOADING OPERATIONS.
3. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM OF 3" DIAMETER OF ANGULAR ROCK (GRANITE OR RECYCLED CONCRETE).
4. SSA FOR SMALLER SITES MAY NOT BE PRACTICAL. IN THESE AND SIMILAR SITUATIONS, VARIANCES MAY BE PERMITTED BY THE TOWN.

STABILIZED STAGING AREA INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE STAGING AREA.
2. STABILIZED STAGING AREA SHALL BE ENLARGED AS NECESSARY TO CONTAIN PARKING, STORAGE, LOADING, AND UNLOADING.

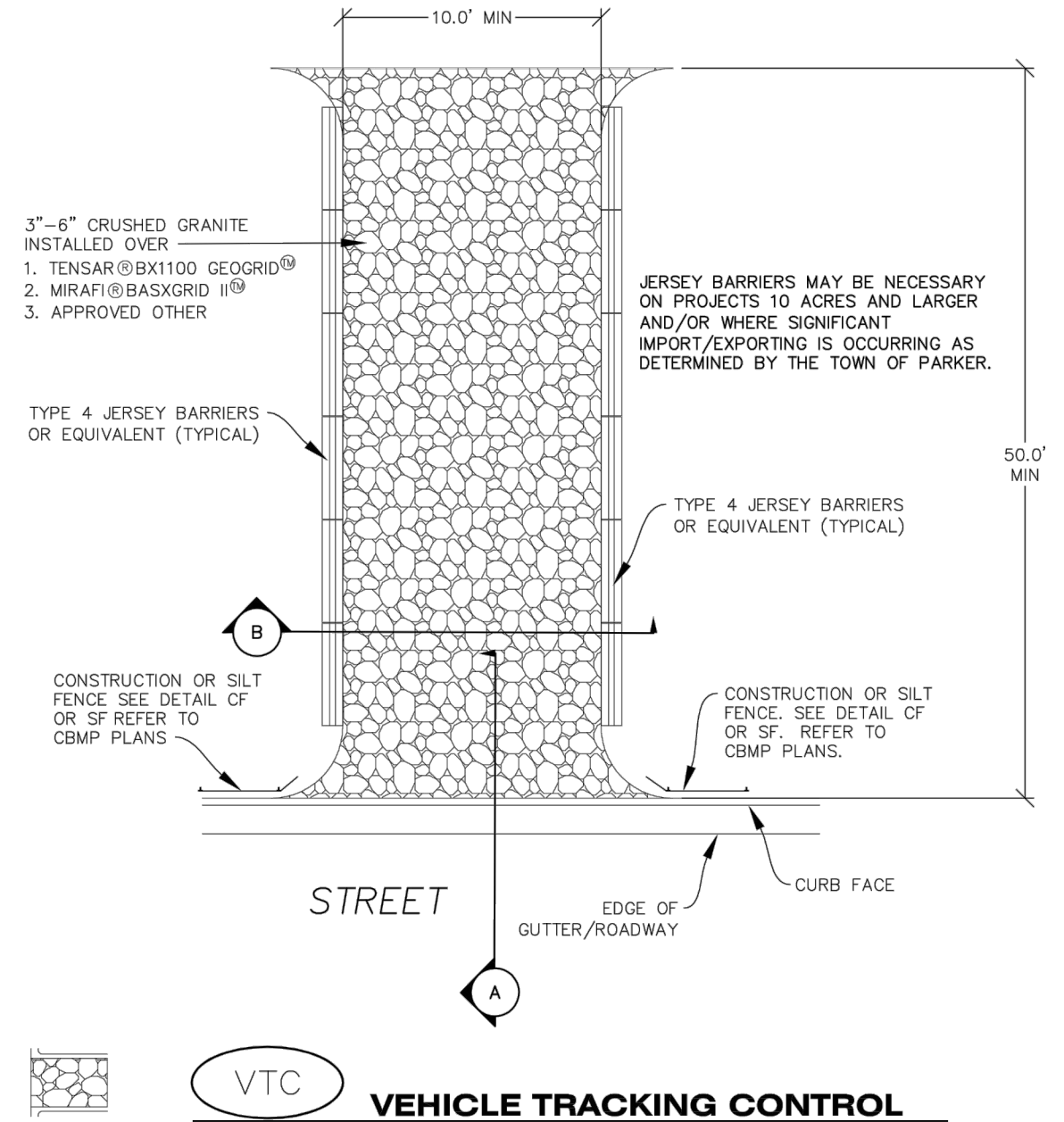


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ON SITES LESS THAN 10 ACRES AND WHERE SIGNIFICANT SOIL IMPORTING/EXPORTING IS NOT OCCURRING, CONSTRUCTION FENCE (CF) OR SILT FENCE (SF) MAY BE USED IN LIEU OF THE TYPE 4 JERSEY BARRIERS WITH PRIOR APPROVAL FROM THE TOWN'S INSPECTOR.





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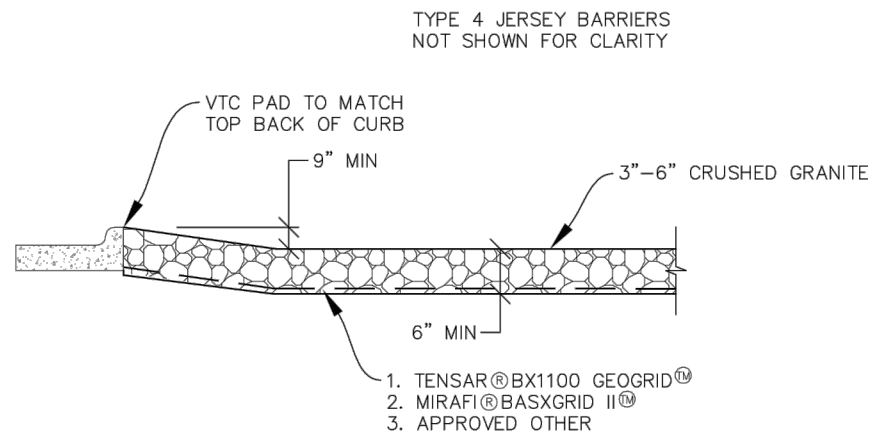
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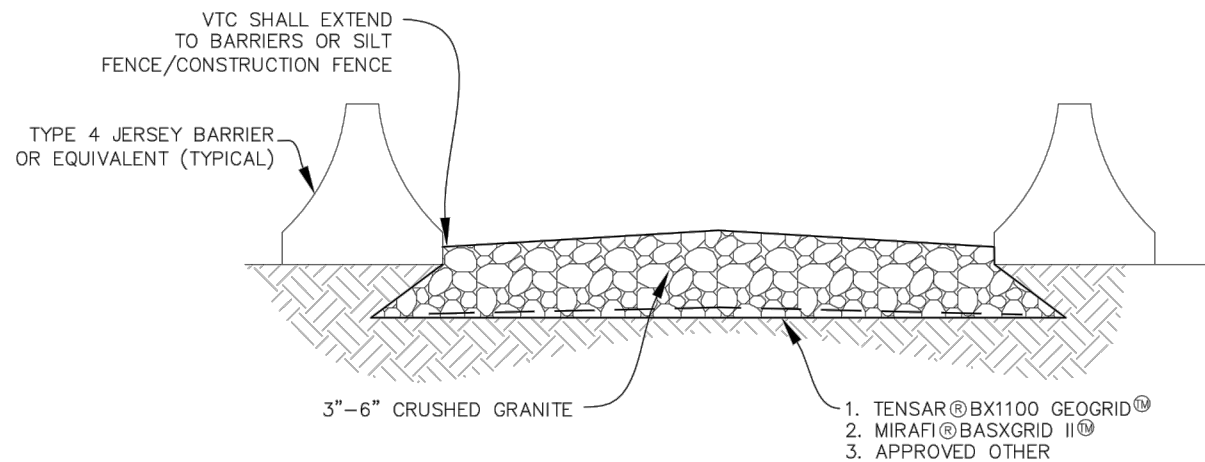


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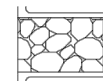
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SECTION A



SECTION B



VEHICLE TRACKING CONTROL

VEHICLE TRACKING CONTROL PAD INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF VEHICLE TRACKING CONTROL PAD(S).
2. ALL CONSTRUCTION TRAFFIC MUST ENTER AND EXIT THE SITE THROUGH THE APPROVED ACCESS POINT(S). A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT ALL APPROVED ACCESS POINTS TO THE SITE. EXCEPTIONS MAY BE CONSIDERED FOR CONSTRUCTION ACTIVITY OCCURRING IMMEDIATELY ADJACENT TO PAVED AREAS AND WHERE ALTERNATIVE BMP'S ARE IMPLEMENTED. SUCH ACTIVITY MAY INCLUDE, BUT NOT BE LIMITED TO RESIDENTIAL CONSTRUCTION, UTILITY CONSTRUCTION, ETC.
3. THE VEHICLE TRACKING CONTROL PAD(S) INDICATED ON CBMP PLAN SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
4. VEHICLE TRACKING CONTROL PADS SHALL BE A MINIMUM OF 50- FEET LONG AND 10- FEET WIDE, UNLESS A VARIANCE HAS BEEN GRANTED BY THE TOWN'S INSPECTOR.
5. A BIAXIAL GEO-GRID SHALL BE PLACED UNDER THE VEHICLE TRACKING CONTROL PAD PRIOR TO THE PLACEMENT OF ROCK. THE AREA SHALL BE FREE FROM ANY VOIDS, ROCKS AND DEBRIS. THE BIAXIAL GEO-GRID SHALL BE TENSAR BX1100, MIRAFI BASXGRID II, OR AN APPROVED EQUAL. GEO-GRID SHALL BE PLACED, AND APPROPRIATELY OVERLAPPED IF NECESSARY, TO COVER THE ENTIRE LENGTH AND WIDTH OF THE VEHICLE TRACKING CONTROL PAD.
6. CRUSHED ROCK SHALL BE A MINIMUM OF 3-6" GRANITE WITH A FRACTURED FACE (ALL SIDES).

VEHICLE TRACKING CONTROL PAD INSTALLATION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE VEHICLE TRACKING CONTROL PAD.
2. WHEN THE VEHICLE TRACKING CONTROL PAD IS REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE VEHICLE TRACKING CONTROL PAD SHALL BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
3. THE VEHICLE TRACKING CONTROL PAD SHALL BE MAINTAINED SUCH THAT THE ROCK REMAINS RELATIVELY LOOSE AND ACCUMULATED MUD AND OTHER DEBRIS IS REGULARLY REMOVED.

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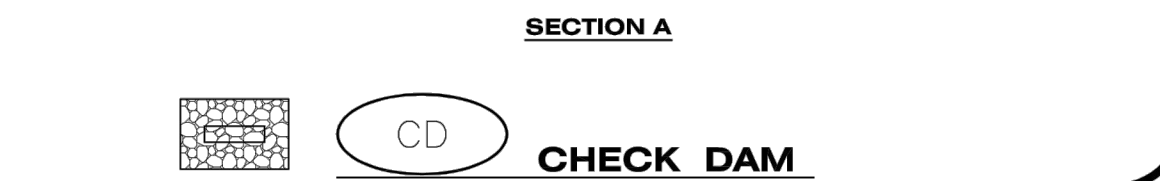
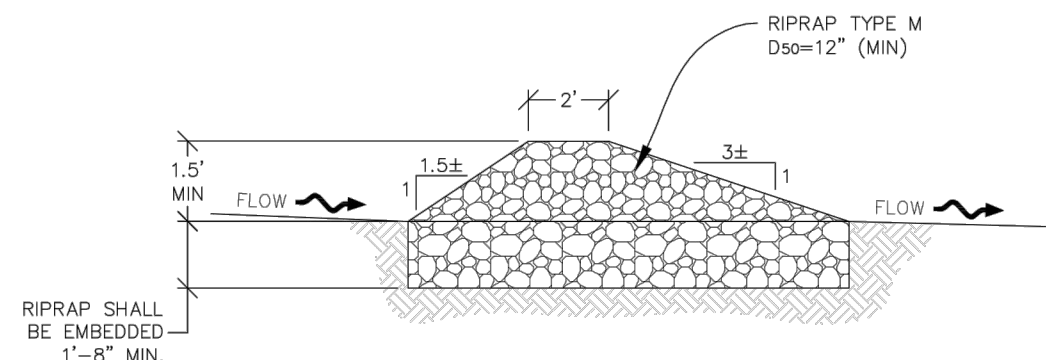
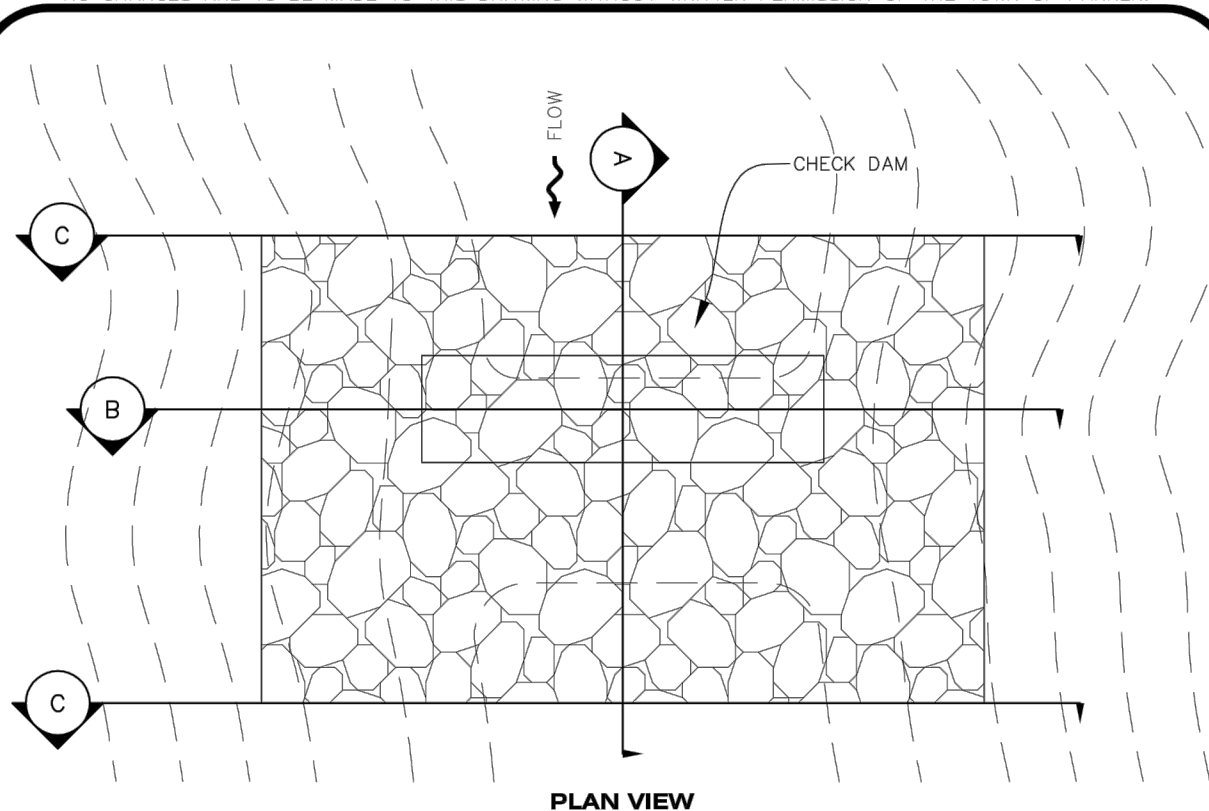
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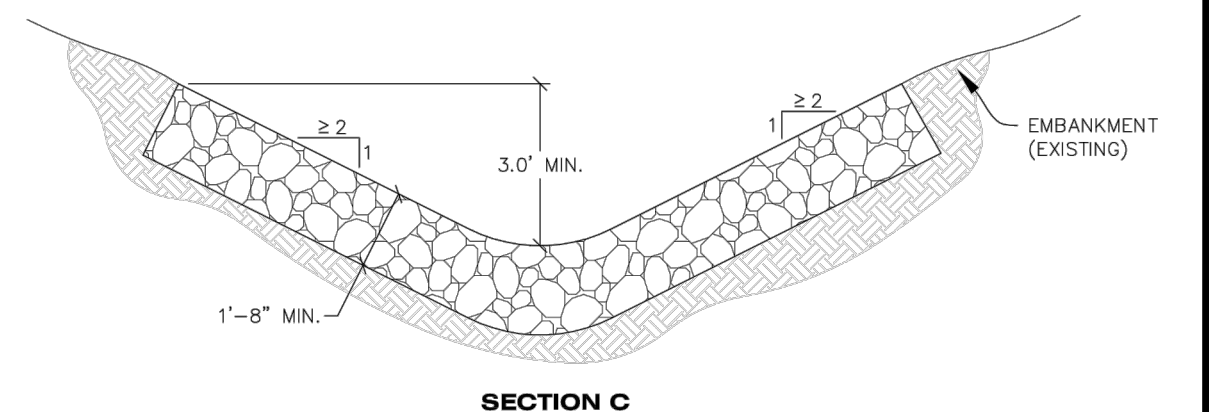
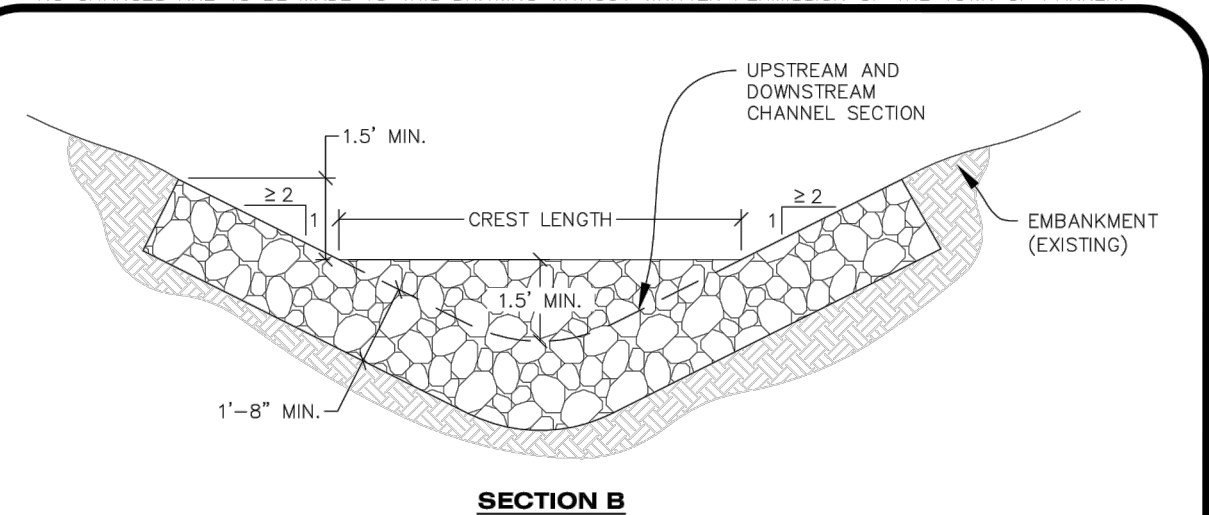
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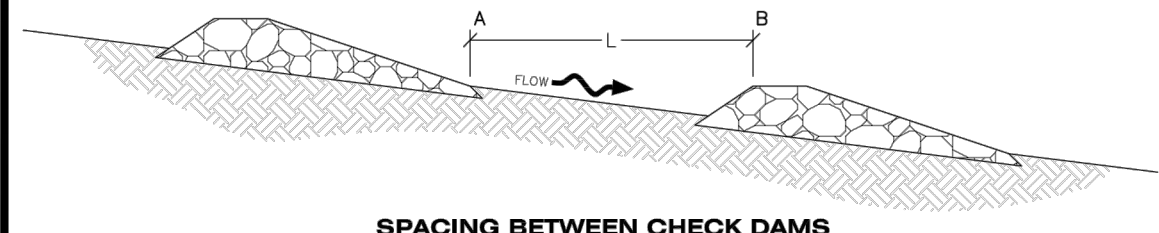
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NOTE: SECTION C IS LOCATED IMMEDIATELY UPSTREAM AND DOWNSTREAM OF THE CHECK DAM, THEREFORE NO ROCK IS SHOWN WITHIN THE CHANNEL FLOW AREA.

L = THE DISTANCE SUCH THAT POINT A AND B ARE OF EQUAL ELEVATION.



Town of Parker COLORADO | **CBMP** | **CD**
CONSTRUCTION BEST MANAGEMENT PRACTICES | 2 OF 3
Oct. 2013

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| Revised: | Detailer: KLT | Sheets: ED-26 of 35 | Sheet Number 120 |
| Void: | Subset: Erosion | | |

CHECK DAM INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION(S) OF CHECK DAMS.
2. CHECK DAMS SHOWN ON CBMP PLAN SHALL BE INSTALLED WHEN DIRECTED BY THE TOWN'S INSPECTOR.
3. RIPRAP UTILIZED FOR CHECK DAMS SHALL HAVE A D50 MEDIAN STONE SIZE OF 12".
4. RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'-8".
5. THE MAXIMUM SPACING BETWEEN CHECK DAMS SHOULD BE SUCH THAT THE BOTTOM OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM AS SHOWN IN THE DETAIL.

CHECK DAM INSPECTION AND MAINTENANCE NOTES

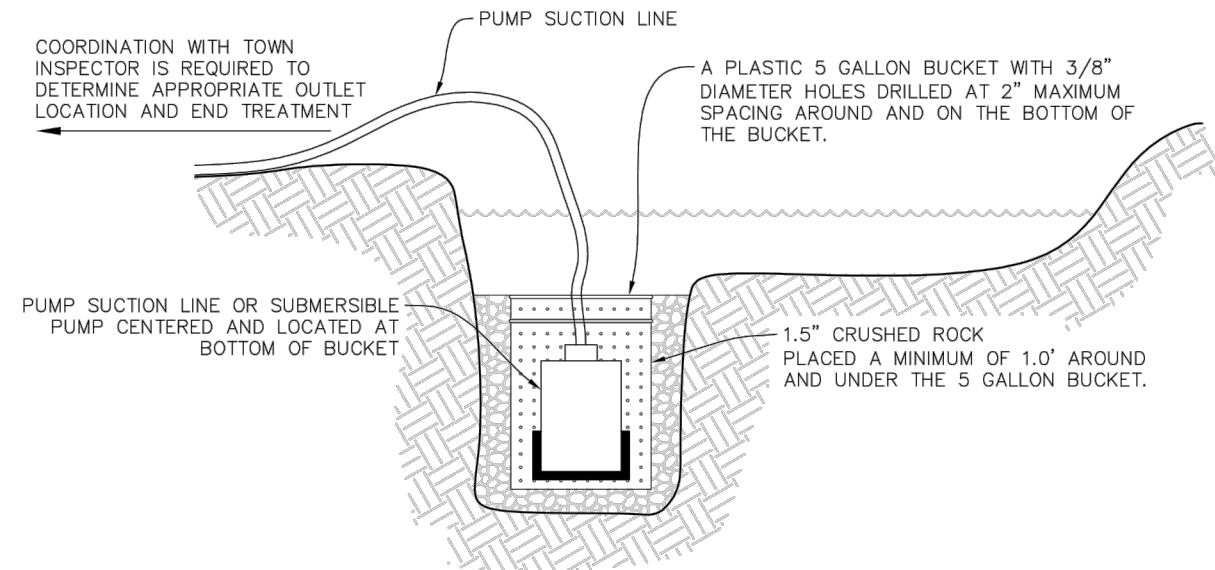
1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE CHECK DAMS.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 THE HEIGHT OF THE CREST OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
3. CHECK DAMS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
4. WHEN CHECK DAMS ARE REMOVED, THE TOWN'S INSPECTOR MAY REQUIRE EXCAVATIONS TO BE FILLED WITH SUITABLE COMPACTED TOPSOIL AND ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE CHECK DAMS BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).
5. IN SOME INSTANCES, CHECK DAMS MAY REMAIN IN PLACE PERMANENTLY.



CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

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TYPICAL DEWATERING SUMP

NOTE:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE APPROPRIATE MEASURES TO PROTECT PUMPING EQUIPMENT AND MINIMIZE SEDIMENT. USE OF A PLASTIC 5 GALLON BUCKET IS SUGGESTED BUT NOT REQUIRED. THE CONTRACTOR SHALL NOT HOLD THE TOWN LIABLE FOR DAMAGE TO PUMPING EQUIPMENT REGARDLESS OF METHODS USED.




CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

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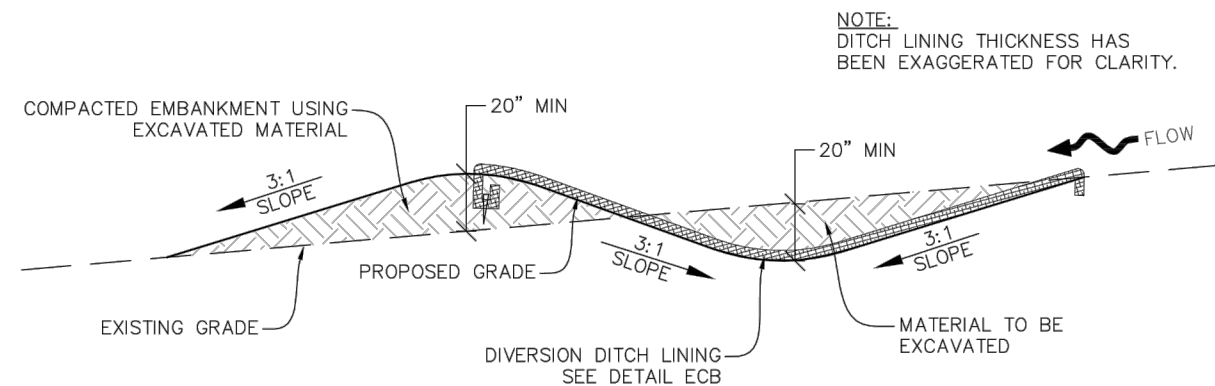
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| Void: | Subset: Erosion | Sheets: ED-27 of 35 | Sheet Number 121 |

DEWATERING INSTALLATION NOTES

- IT IS THE EROSION CONTROL SUPERVISOR'S RESPONSIBILITY TO ENSURE THAT ALL DEWATERING IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE).

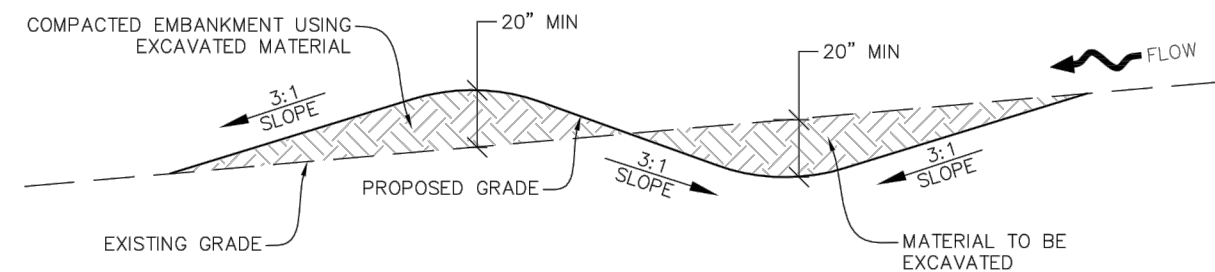
DEWATERING MAINTENANCE NOTES

- THE EROSION CONTROL SUPERVISOR SHALL INSPECT THE DEWATERING OPERATION TO ENSURE THAT THE DISCHARGE WATER IS DRAINING TO THE PROPER LOCATION(S) AND PERFORM ANY NECESSARY REPAIRS OR MAINTENANCE ON A FREQUENT BASIS.



DIVISION DITCH GEOMETRY AND REQUIRED LINING MATERIAL SHALL BE OBTAINED FROM ASSOCIATED CBMP PLANS VIA THE DESIGN ENGINEER. IF THIS INFORMATION IS NOT PROVIDED ON THE CBMP PLANS, THE CONTRACTOR SHALL NOTIFY THE TOWN PRIOR TO CONSTRUCTION

DIVERSION DITCH SECTION LINED CHANNEL



DIVERSION DITCH SECTION UNLINED CHANNEL



DIVERSION DITCH

CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

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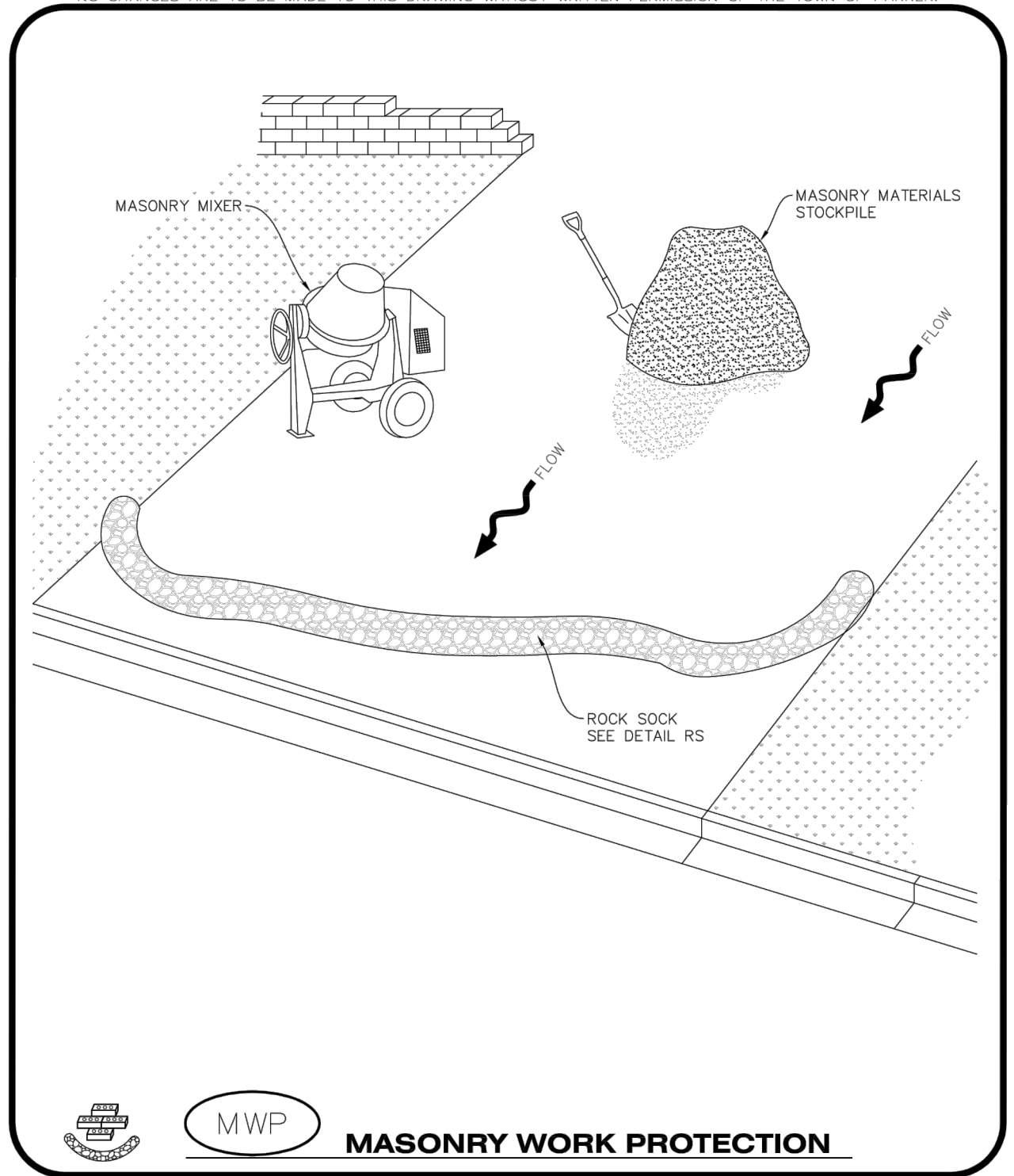
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DIVERSION DITCH INSTALLATION NOTES

1. SEE THE PLAN VIEW FOR THE LOCATION(S) OF THE DIVERSION DITCHES.
2. A PLASTIC LINER, RIPRAP, OR EROSION CONTROL BLANKET MAY BE NECESSARY TO PROTECT THE DIVERSION DITCH. THE REQUIRED LINING MATERIAL SHALL BE OBTAINED FROM THE CBMP PLANS VIA THE DESIGN ENGINEER.
3. ALL MATERIAL EXCAVATED FROM THE DITCH MAY BE USED TO CONSTRUCT THE BERM ON THE DOWNHILL SIDE OF THE DITCH.
4. THE DIVERSION DITCH SHALL BE A MINIMUM OF 20" DEEP WITH APPROX. 3:1 SIDE SLOPES. THE ADJACENT BERM SHALL BE A MINIMUM OF 20" IN HEIGHT WITH APPROX. 3:1 SIDE SLOPES. ALL EMBANKMENTS SHALL BE FIRMLY COMPACTED.
5. THE DISCHARGE FROM THE DIVERSION DITCH SHALL BE DIRECTED TOWARDS AN APPROPRIATELY SIZED TEMPORARY SEDIMENT BASIN OR OTHER APPROVED AREA.

DIVERSION DITCH INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE DIVERSION DITCH.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE THE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 (10") THE CREST HEIGHT.
3. DIVERSION DITCHES SHALL BE RE-GRADED FOLLOWING THE SIGNS OF MODERATE OR MORE SOIL EROSION OR ANY DAMAGE.
4. DIVERSION DITCHES ARE TO REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR. ALTERNATIVELY, THE DIVERSION DITCHES MAY BE REMOVED WHEN THE SITE'S TOPOGRAPHY CHANGES SUCH THAT SIGNIFICANT RUNOFF IS NO LONGER POSSIBLE. IN SOME INSTANCES, THE DIVERSION DITCHES MAY REMAIN IN PLACE PERMANENTLY.



MASONRY WORK PROTECTION


CBMP
 CONSTRUCTION BEST MANAGEMENT PRACTICES


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 CONSTRUCTION BEST MANAGEMENT PRACTICES

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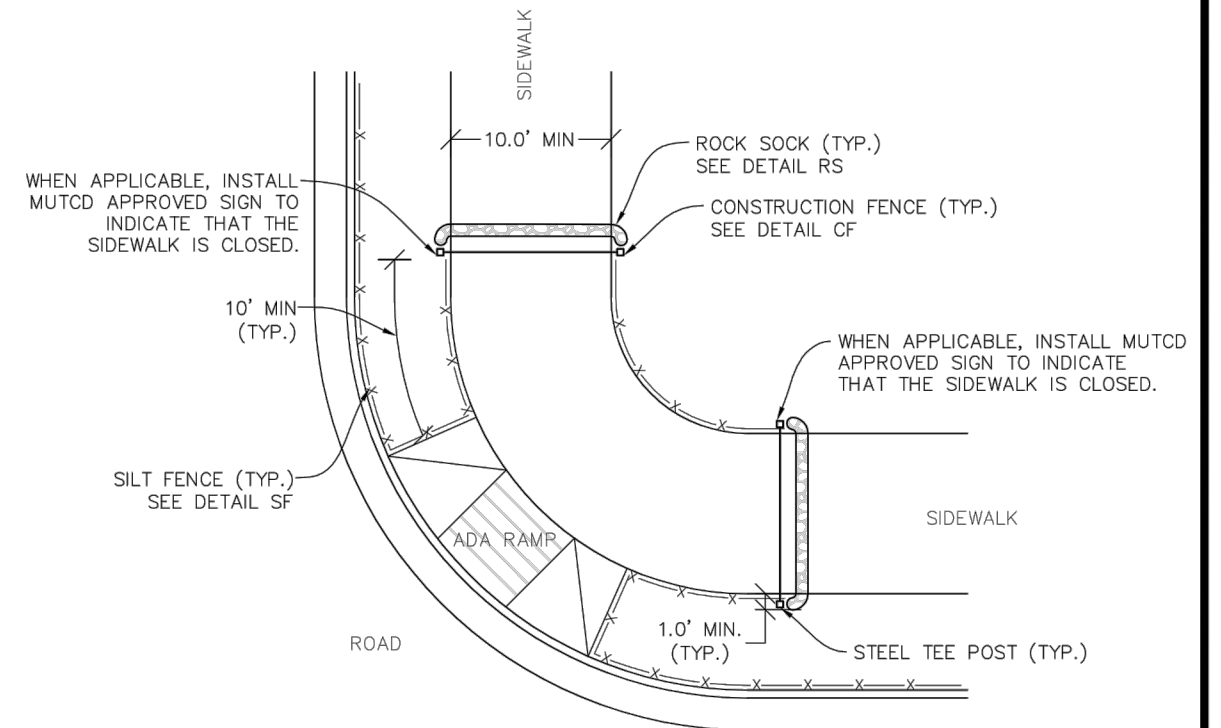
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MASONRY WORK PROTECTION INSTALLATION NOTES

- MASONRY WORK PROTECTION MAY NEED TO BE INSTALLED WHEN MASONRY WORK AND MIXING IS OCCURRING.
- A ROCK SOCK SHALL BE INSTALLED IN A CRESCENT SHAPE ON THE DOWNHILL SIDE OF THE MASONRY WORK AND MIXER.
- CRUSHED ROCK SHALL BE 2.0"—3.0" IN SIZE WITH A FRACTURED FACE (ALL SIDES).
- ROCK SOCK SHALL BE ONE CONTINUOUS PIECE OR SHALL BE CONSTRUCTED USING WIRE WRAPPED JOINTS (SEE DETAIL RS).
- ROCK SOCK SHALL BE CONSTRUCTED USING CHICKEN WIRE OR OTHER APPROVED MATERIAL, SIZED TO KEEP ROCK FROM SPILLING OUT.

MASONRY WORK PROTECTION INSPECTION AND MAINTENANCE NOTES

- THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE MASONRY WORK PROTECTION.
- ALL CONCRETE WASTE SHALL BE REGULARLY CLEANED AND PLACED IN THE CONCRETE WASH OUT AREA.
- ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED.



NOTE:
SEDIMENT CONTROL LOGS (SCL) MAY BE USED IN LIEU OF SILT FENCE (SF) WITH PRIOR APPROVAL FROM TOWN.



STP

SIDEWALK TRANSITION PROTECTION (AT INTERSECTION)

CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

MWP

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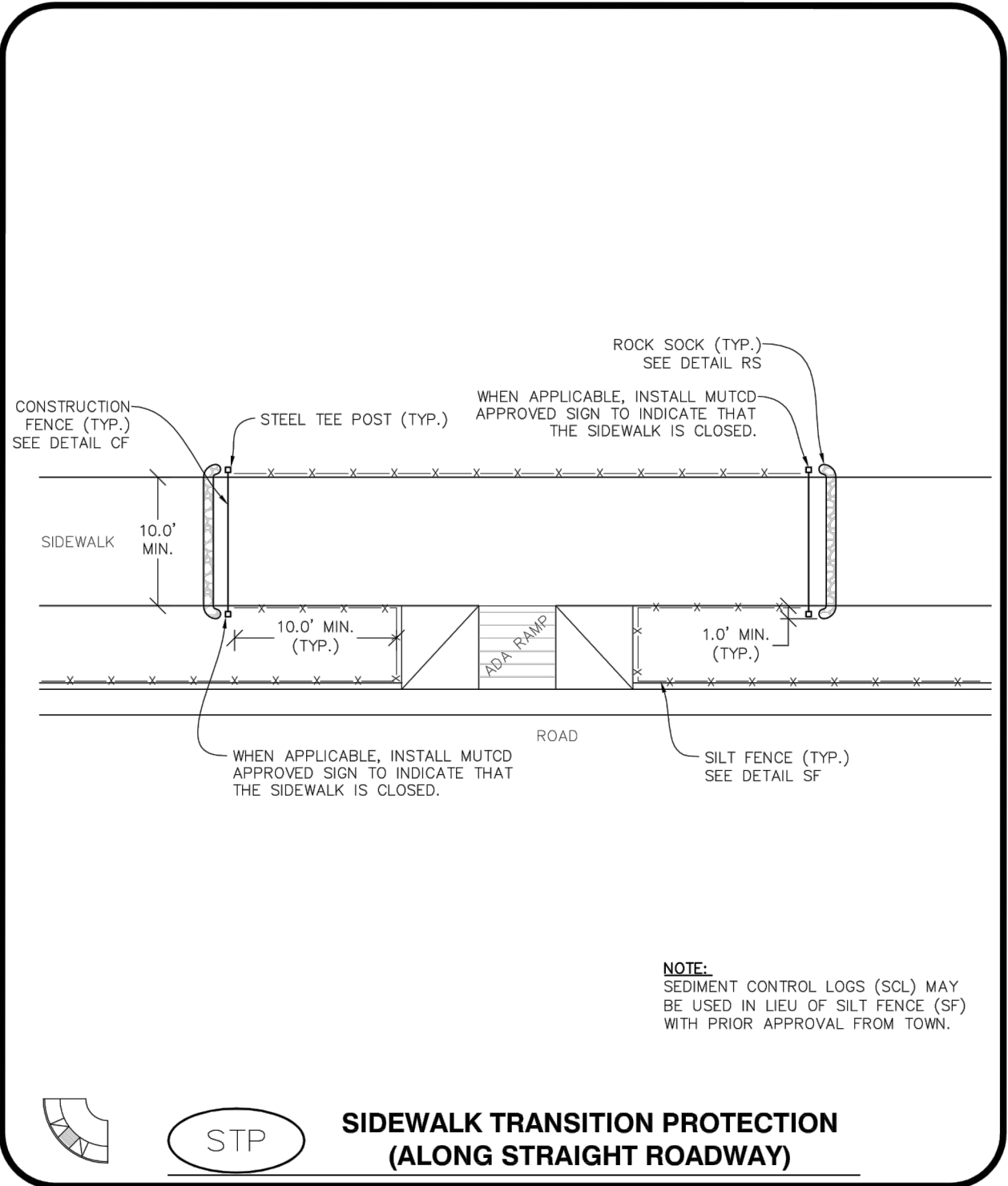
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 **SIDWALK TRANSITION PROTECTION**
(ALONG STRAIGHT ROADWAY)

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SIDWALK TRANSITION PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION(S) OF SIDEWALK TRANSITION PROTECTION.
2. ROCK SOCK SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL RS).
3. SILT FENCE SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL SF).
4. CONSTRUCTION FENCE SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL (SEE DETAIL CF).
5. SEDIMENT CONTROL LOGS MAY BE USED IN LIEU OF SILT FENCE WITH PRIOR APPROVAL FROM THE TOWN.

SIDWALK TRANSITION PROTECTION INSPECTION & MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE SIDEWALK TRANSITION INSPECTION.

 **CBMP** **STP**
CONSTRUCTION BEST MANAGEMENT PRACTICES 2 OF 3
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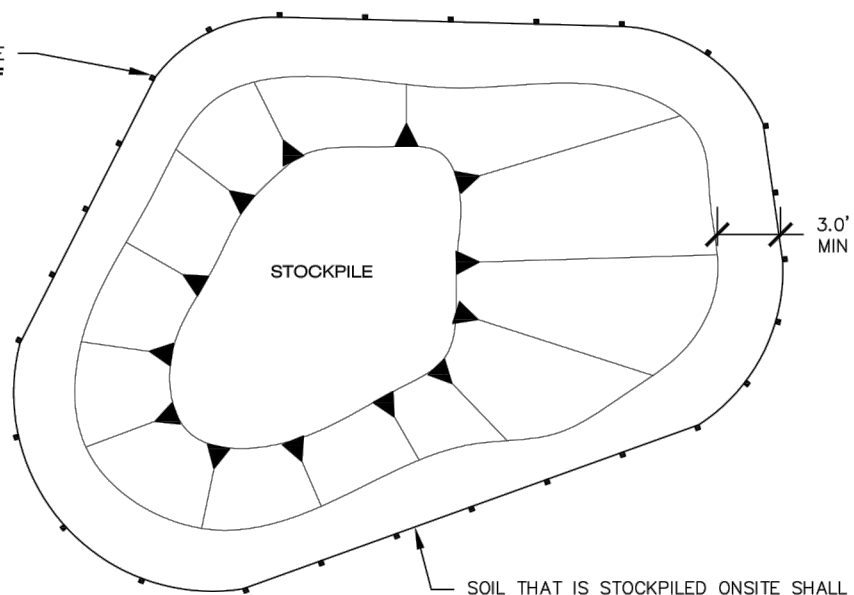
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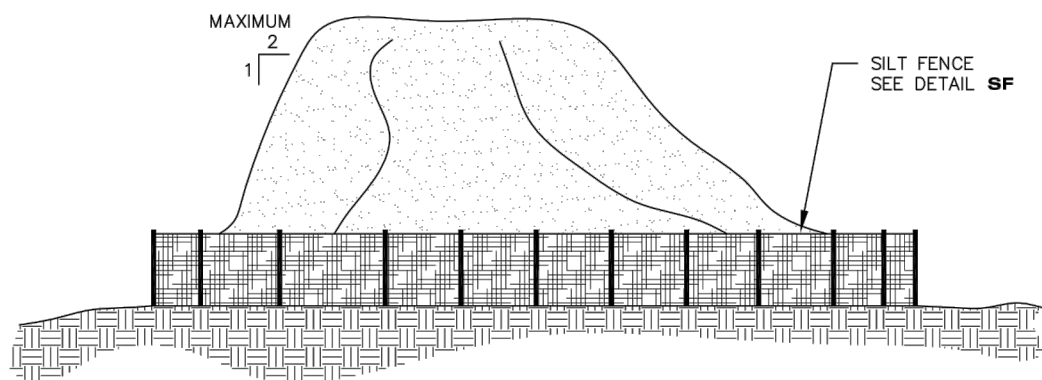
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SILT FENCE
SEE DETAIL SF



SOIL THAT IS STOCKPILED ONSITE SHALL BE ENCLOSED WITH SILT FENCE. IF THE SOIL IS TO REMAIN EXPOSED FOR MORE THAN 30 DAYS, IT SHALL BE HAND BROADCASTED OR DRILL SEEDED AND MULCHED ACCORDING TO THE TOWN'S DETAILS (SEE DETAIL SMC).



STOCKPILES SHALL BE LOCATED ONSITE PER THE APPROVED CBMP PLAN.



SP

STOCKPILE PROTECTION



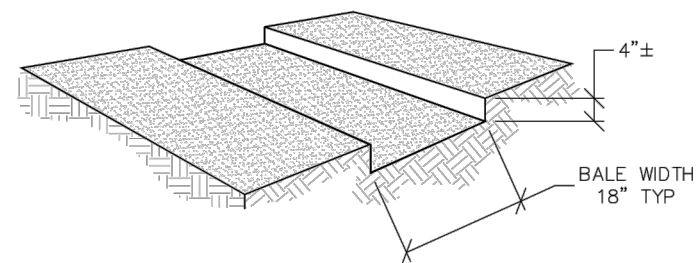
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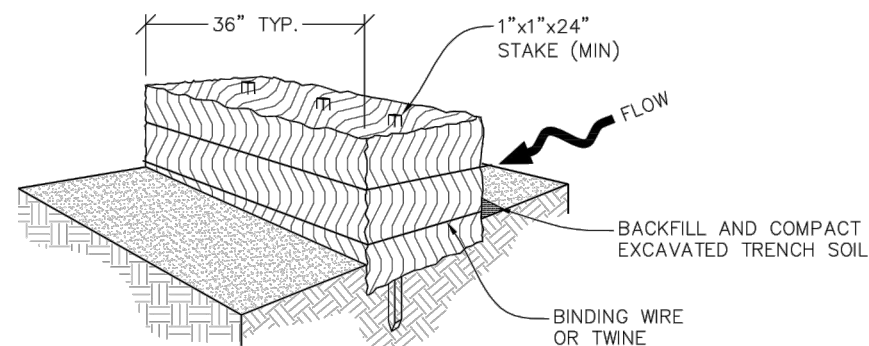
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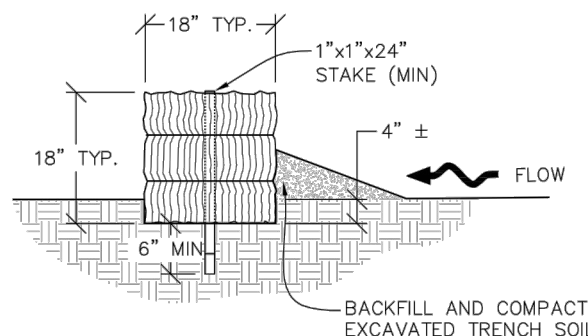
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TRENCH EXCAVATION



STRAW BALE INSTALLATION



SECTION



SB

STRAW BALE



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CONSTRUCTION BEST MANAGEMENT PRACTICES

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STRAW BALE INSTALLATION NOTES

1. SEE CBMP PLAN FOR LOCATION(S) OF STRAW BALES.
2. TYPICAL STRAW BALES SHALL BE APPROXIMATELY 36"X18"X18".
3. TWO (2) WOODEN STAKES SHALL BE USED TO HOLD EACH BALE IN PLACE. WOODEN STAKES SHALL BE A MINIMUM OF 1"X1"X24".
4. WOODEN STAKES SHALL BE PLACED APPROXIMATELY 6" INTO THE GROUND.
5. STRAW BALES SHALL BE SPACED AND POSITIONED ACCORDING TO DETAILS.

STRAW BALE INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE STRAW BALES.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE THE SEDIMENT HAS REACHED A DEPTH EQUAL TO 1/2 THE HEIGHT OF THE STRAW BALE.
3. STRAW BALES MAY NEED TO BE REPLACED IF THEY BECOME HEAVILY SOILED, ROTTEN, OR OTHERWISE DAMAGED.
4. STRAW BALES SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR OR AS OTHERWISE DIRECTED BY THE TOWN INSPECTOR.
5. WHEN THE STRAW BALES ARE REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE STRAW BALES MAY NEED TO BE ROUGHENED, SEEDED, MULCHED, AND CRIMPED PER THE TOWN'S SPECIFICATIONS (SEE DETAIL SMC).

To allow for a proper and timely establishment of native grasses, temporary irrigation is required over all areas where permanent native seeding is proposed. This includes, but is not limited to: detention ponds, drainageways, park and trail areas, general open space, etc. **In addition to the landscape plans, please show the temporary irrigation symbol (TI) on the CBMP Plan over all areas where permanent native seeding is proposed.** As a reminder, when working within Parker Water and Sanitation District's (PWSD) jurisdiction, the following is required:

- Temporary irrigation for native seed must be supplied by a fire hydrant hook-up. Use of proposed/existing landscape irrigation taps is not allowed. Please indicate on the irrigation plans fire hydrants that are to be used for the temporary irrigation mainline and provide a detail for the connection. This detail should show the hydrant, PRV, PWSD water meter, a 2" backflow assembly, a 2" x 2" cam lock for fire department quick disconnect and a support system for all components
- The following note must be shown on the Irrigation plan set "Temporary irrigation for establishment of native vegetation must be installed above ground, and removed immediately after establishment is complete, or in no case, any longer than one growing season." PWSD may allow temporary irrigation to continue for one additional growing season with prior approval.
- The following note must be shown on the Irrigation plan set "All temporary irrigation components including but not limited to mainlines, laterals, valves, heads and quick couplers must be installed above ground."
- All temporary irrigation components including but not limited to mainlines, laterals, valves, heads and quick couplers must be clearly labeled on the plans.
- Provide detail drawings for all above ground components including but not limited to mainlines, laterals, valves, heads and quick couplers.

If the project is outside of PWSD's jurisdiction, check with the applicable water provider regarding their specific requirements for temporary irrigation.




CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

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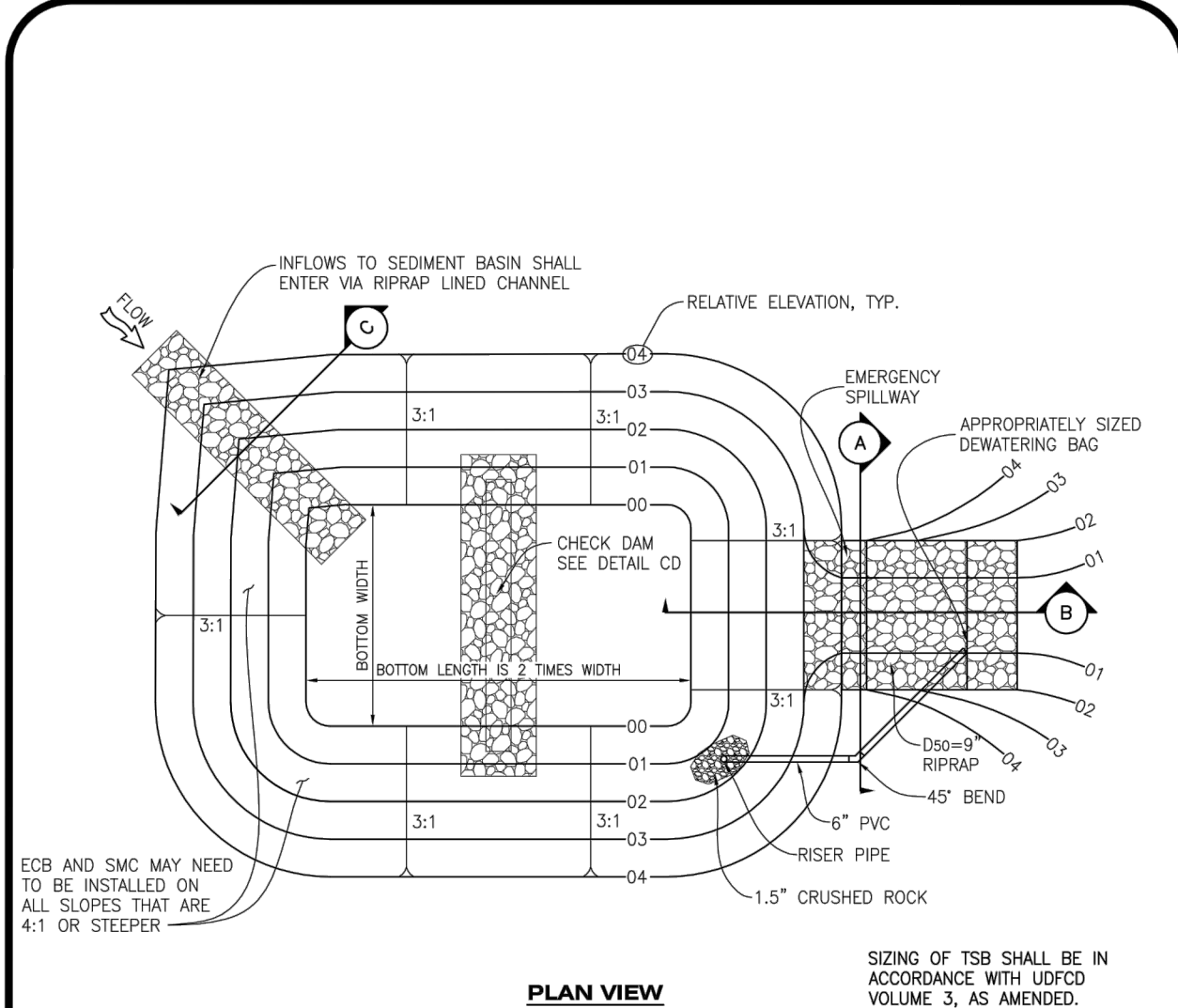
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PLAN VIEW

SIZING OF TSB SHALL BE IN ACCORDANCE WITH UDFCD VOLUME 3, AS AMENDED.

ECB AND SMC MAY NEED TO BE INSTALLED ON ALL SLOPES THAT ARE 4:1 OR STEEPER



TSB

TEMPORARY SEDIMENT BASIN



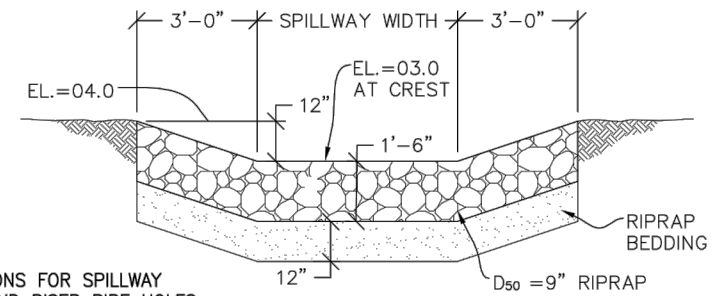
CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

TSB

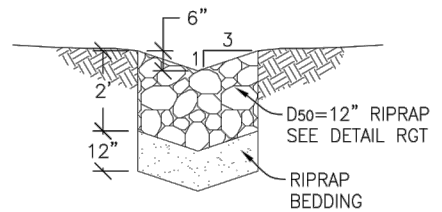
1 OF 3
Oct. 2013

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

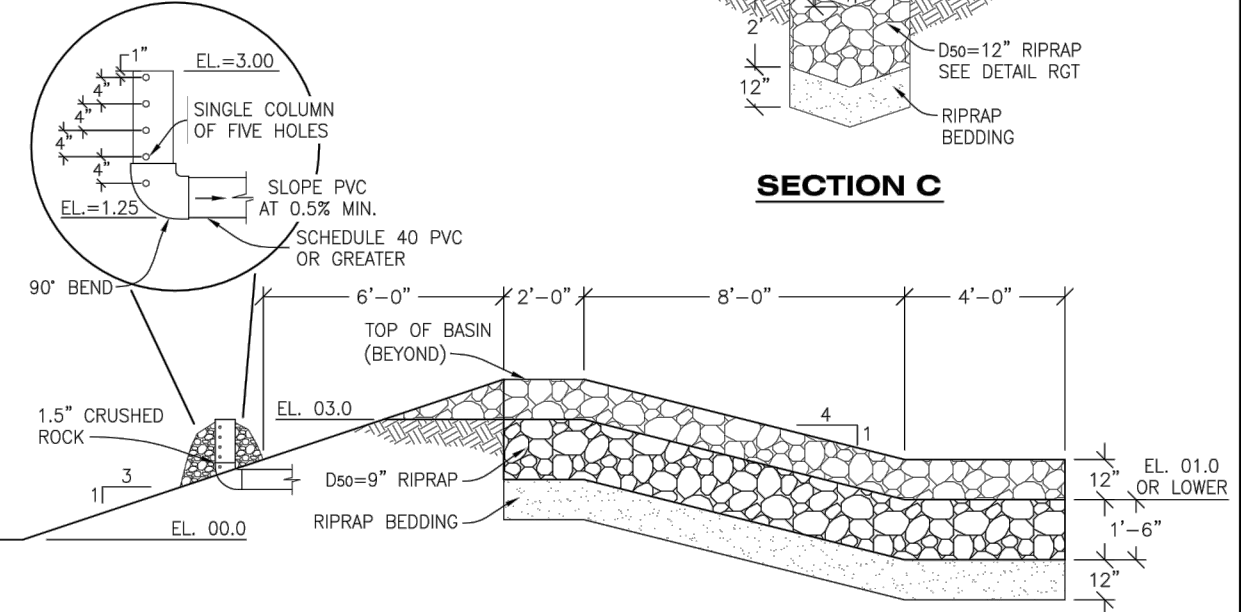


DIMENSIONS FOR SPILLWAY WIDTH AND RISER PIPE HOLES SHALL BE IN ACCORDANCE WITH UDFCD VOLUME 3, AS AMENDED.

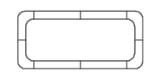
SECTION A



SECTION C



SECTION B



TSB

TEMPORARY SEDIMENT BASIN



CBMP

CONSTRUCTION BEST MANAGEMENT PRACTICES

TSB

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Oct. 2013

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| Sheet Revisions | | |
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| Date | Comments | Initials |
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| As Constructed | BELFORD-HAPPY CANYON CREEK CBMP STANDARD NOTES AND DETAILS | | Project No./Code |
| No Revisions: | Designer: CDT | Structure Numbers | |
| Revised: | Detailer: KLT | | |
| Void: | Subset: Erosion | Sheets: ED-34 of 35 | Sheet Number 128 |

TEMPORARY SEDIMENT BASIN INSTALLATION NOTES


1. SEE CBMP PLAN FOR LOCATION(S) OF SEDIMENT BASIN(S).
2. THE TEMPORARY SEDIMENT BASIN(S) SHALL BE INSTALLED AND FUNCTIONING PRIOR TO ANY OTHER GRADING ACTIVITIES.
3. THE EXACT DIMENSIONS AND DETAILS OF THE TEMPORARY SEDIMENT BASIN SHALL BE DETERMINED BY THE DESIGN ENGINEER, IN ACCORDANCE WITH UDFCD VOLUME 3, AS AMENDED.
4. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3" AND SHALL HAVE A MINIMUM OF 15% BY WEIGHT PASSING THE NO. 200 SIEVE.
5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% DENSITY, AND WITHIN +/- 2% OF OPTIMUM MOISTURE IN ACCORDANCE WITH ASTM D698.
6. AN APPROPRIATELY SIZED DEWATERING BAG SHALL BE SECURED TO THE END OF THE DISCHARGE PIPE. THE DEWATERING BAG SHALL BE REPLACED ONCE SEDIMENT ACCUMULATION REACHES 50%.

TEMPORARY SEDIMENT BASIN INSPECTION AND MAINTENANCE NOTES

1. THE EROSION CONTROL SUPERVISOR SHALL REGULARLY INSPECT THE TEMPORARY SEDIMENT BASIN.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT REACHES A DEPTH OF 2.0', OR WITHIN 2.0' OF THE SPILLWAY CREST, OR AS OTHERWISE DIRECTED BY THE TOWN'S INSPECTOR.
3. SEDIMENT BASINS SHALL REMAIN IN PLACE AND PROPERLY MAINTAINED UNTIL UPSTREAM VEGETATIVE COVER HAS REACHED A CONSISTENT DENSITY OF AT LEAST 70% OF FULL VEGETATIVE COVER AND EROSION AND SEDIMENTATION IS NO LONGER A POSSIBILITY AS DETERMINED BY THE TOWN'S INSPECTOR.

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| Void: | Subset: | Erosion | Sheets: | ED-35 of 35 |
| | | | | Sheet Number 129 |