MESA COUNTY SOLID WASTE MANAGEMENT
PHASE 7B & 7C CONSTRUCTION PLANS
JANUARY 2020

SHEET INDEX

1. COVER
2. EXISTING CONDITIONS
3. TOP OF CLAY LINER GRADING PLAN
4. TOP OF LINER CROSS SECTIONS
5. ACCESS ROAD PROFILE
6. CERTIFICATION GRID PLAN VIEW
7. TERMINATION DETAILS
8. DRAINAGE AND ACCESS ROAD DETAILS

NOTES:
ALL EXISTING SURVEY DATA PROVIDED BY
MCSWM ON SEPTEMBER 4, 2018
CONSTRUCTION DRAWINGS BASED ON 06/01/17 DESIGN

© Copyright 2020 Souder, Miller & Associates - All Rights Reserved

P:\4-Mesa County Landfill (4D25001)\CAD\Civil\Phase 7b & 7c\Construction Drawings\Cover.dwg

1/2/2020 7:22:38 AM

GRW

Designed
Checked
Drawn

January 2020

MESA COUNTY SOLID WASTE MANAGEMENT
SJF
MJP

GRAND JUNCTION, CO

5610 Ward Road, Suite 103
Arvada, CO 80002

Phone (303) 239-9011 Toll-Free (877) 299-0942 Fax (303) 239-0745

www.soudermiller.com

SMA

Engineering ♦ Environmental ♦ Surveying

Serving the Southwest & Rocky Mountains
PHASE 7B & 7C
1.67 ACRES

CONTROL POINT
ADC-1
ADC-2
ADC-3
ADC-4
P-1
P-2

POND
ORGANIC MATERIALS
COMPOSTING FACILITY
EW-05
EW-11
EW-04
EW-12
EW-13
EW-03
EW-18
EW-25
EW-17
EW-16
EW-15
EW-27
EW-26
EW-14
EW-10
EW-19
EW-23
EW-24
EW-29
EW-30
EW-21
EW-20
EW-07
EW-08
EW-22
EW-06
EW-09

SCALE AND CASHIER BUILDING
GCCS FLARE
AGITATED AIR DRYING AND CURING COMPOSTING FACILITY
GCCS SUMP
EXISTING ASBESTOS DISPOSAL SITE
ADMINISTRATION BUILDING
MAINTENANCE BUILDING
UD-1
ROCK CHIMNEY
(CONDENSATE INJECTION POINT)
CULVERT

LOCATION OF TIRE BALE STORAGE AREA
WATER SOURCE FOR CONSTRUCTION
LOCATION OF SOUTHERN BORROW AREA

4925
4975
4950
4925
4900
4875
4850
4825
4800
4775

SCALE IN FEET

NOTES:
1) MAINTAIN AND PROTECT THE FOLLOWING STRUCTURES:
   · CONTROL POINT
   · MW-3
   · PZ-3
   · PZ-3A
   · PZ-3S
   · PZ-4S
   · PZ-4A
   · PZ-4
   · PZ-13S&D
   · ACCESS ROADS
   · EXISTING DRAINAGE
2) BASIS OF BEARING IS THE BFI BEARING (S 04°45'26.7" W)
   BETWEEN BFI SURVEY CONTROL POINTS "PP2A" (S003) AND "PP5" (S004) WHERE AS SAID BFI POINT PP2A IS THE CENTRAL MERIDIAN AND POINT OF ORIGIN OF A LANDFILL SITE LCS (LOCAL COORDINATE SYSTEM) USING A TRANSVERSE MERCATOR COORDINATE PROJECTION WHERE THE SCALE FACTOR IS 1.0002349946 AND THE GEODETIC COORDINATES OF SAID BFI POINT PP2A BEING LAT. 39°00'50.90895"N & LONG. 108°29'23.80236"W.
3) ELEVATIONS SHOWN HEREIN ARE BASED UPON THE BFI LANDFILL DATUM WHERE THE BFI SURVEY CONTROL POINT "PP2A" (S003) IS HELD FIXED AT AN ELEVATION OF 4,923.94 FT.
4) LINEAR UNITS ARE U.S. SURVEY FEET.

LEGEND
2018 AERIAL INDEX CONTOUR (25')
2018 AERIAL INTERMEDIATE CONTOUR (5')
EXISTING FENCE
GRAVEL ROAD
PAVED ROAD
EXISTING DITCH / DRAINAGE
CULVERT
GUARD RAIL
CONSTRUCTION PHASE BOUNDARY
EXISTING STRUCTURE

© Copyright 2020 Souder, Miller & Associates - All Rights Reserved
SMA
www.soudermiller.com
5610 Ward Road, Ste 130
Arvada, CO 80002
Phone (303) 239-9011 Toll-Free (877) 299-0942  Fax (303) 239-0745

1" = 200'
6" MIN. CLASS 6 ROAD BASE
COMPACTED TO 92% OF MAX.
MODIFIED PROCTOR DENSITY at ± 4%
OPTIMUM MOISTURE (ASTM D1557)

NON-GRANULAR STRUCTURAL FILL TO BE
COMPACTED TO 92% OF MAXIMUM MODIFIED
PROCTOR DENSITY at ±4% OF OPTIMUM
MOISTURE (ASTM D1557).

2% SLOPE
1' DEEP DITCH WITH 3:1 SIDESLOPES

2" × 2" × 24" UN-TREATED
INSTALL ROCK CHECK DAMS
AS PRESENTED ON DETAIL 5

FLOW
EXISTING GRADE
STORMWATER CONTROL BERM

PHASE 7B & 7C AREA
ACTIVE LANDFILL
FLOW
EXISTING GROUND
DIVERSION BERM

DIAMETER VARIES
SEE CQAQC PLAN
-3/4" PIPE BEDDING
(PER CQAQC PLAN)
SPRING LINE
FILL COMPACTED TO 92% OF MAXIMUM DRY
DENSITY AS DETERMINED BY MODIFIED
PROCTOR PROCEDURE (ASTM D1557) AT
±4% OF OPTIMUM MOISTURE CONTENT

WATTLE DETAIL
SLOPE
PLAN VIEW
10' 20' 30' 40'

1:1 2:1 3:1 4:1

8" DIAMETER
WATTLE SPACING TABLE

SPACING VARIES ~ SEE WATTLE SPACING TABLE (TYP.)
ALLOWABLE ALTERNATIVE TIE-DOWN METHOD

CONTOUR LINE (TYP.)
ANGLE TERMINAL END UPHILL 24" TO 48" TO PREVENT FLOW AROUND WATTLE (TYP.)

2" × 2" × 24" WOODEN STAKE (TYP.)
WATTLE (TYP.) ~ SEE DETAIL
STAGGER OVERLAPS (TYP.)
2" × 2" × 24" UN-TREATED WOODEN STAKE (TYP.)
NOTES:
1. INSTALL WATTLES ALONG CONTOURS.
2. SECURELY KNOT EACH END OF WATTLE. OVERLAP ADJACENT WATTLE ENDS 12" BEHIND ONE ANOTHER AND SECURELY TIE TOGETHER.
3. COMPACT EXCAVATED SOIL AND TRENCHES TO PREVENT UNDERCUTTING. ADDITIONAL STAKING MAY BE NECESSARY TO PREVENT UNDERCUTTING.
4. INSTALL WATTLE PERPENDICULAR TO FLOW ALONG CONTOURS.
5. WATTLES SHALL BE INSPECTED REGULARLY, AND IMMEDIATELY AFTER A RAINFALL PRODUCES RUNOFF, TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.