

FILE PATH: G:\Active Projects\14000 to 15999\15441\Colorado Post-Fire Detail\2022-06-20_Post-Fire Muscle Wall Check Dam.dwg SAVE DATE: 6/20/2022 12:09:03 PM SAVED BY: Channing

4' TALL MUSCLE WALL PIECE (SEE NOTE 2) FILLED WITH WATER

2' TALL MUSCLE WALL PIECE (SEE NOTE 1) FILLED WITH WATER (ACTS AS WEIR)

DREDGESOX LINER (SEE NOTE 3) WRAPPED AROUND MUSCLE WALL (USE ONE CONTINUOUS 12' WIDE SHEET)

REMOVE SEDIMENT/DEBRIS WHEN BUILDUP EXCEEDS 2'

GRADE 3' WIDE PAD TO PROVIDE FLAT SURFACE FOR MUSCLE WALL

KEY IN DREDGESOX LINER 1' MIN.

PROFILE VIEW

SECTION VIEW

CREATE U-SHAPE BY ROTATING MUSCLE WALL PIECES AT HINGE POINT

KEY END OF MUSCLE WALL INTO EXISTING HILLSIDE/CHANNEL BANK

2' TALL MUSCLE WALL PIECE (SEE NOTE 1) FILLED WITH WATER (ACTS AS WEIR)

SPACING = 2x CHANNEL WIDTH (50' MIN., 200' MAX.)

FLOW DIRECTION

4' TALL MUSCLE WALL PIECE (SEE NOTE 2) FILLED WITH WATER

CHANNEL BED

PLAN VIEW

NOTES

- 2' TALL MUSCLE WALL**
 - LOW DENSITY POLYETHYLENE (LDPE)
 - 2' TALL, 6' LONG, 2' WIDE
 - 62 LBS EMPTY WEIGHT
 - 600 LBS FILLED WEIGHT
 - 190 FT-LB IMPACT STRENGTH
 - 2,600 PSI TENSILE STRENGTH AT YIELD
 - 40°F to 180°F TEMPERATURE RANGE
 - 10 YEAR UV RATED
- 4' TALL MUSCLE WALL**
 - LOW DENSITY POLYETHYLENE (LDPE)
 - 4' TALL, 6' LONG, 2.54' WIDE
 - 121 LBS EMPTY WEIGHT
 - 1,400 LBS FILLED WEIGHT
 - 190 FT-LB IMPACT STRENGTH
 - 2,600 PSI TENSILE STRENGTH AT YIELD
 - 40°F to 180°F TEMPERATURE RANGE
 - 10 YEAR UV RATED
- DREDGESOX LINER**
 - DOUBLE-LAYERED KNITTED POLYETHYLENE MESH
 - 11 SPI COURSE COUNT
 - 7.34 OZ/SQ-YD WEIGHT (ASTM D3776)
 - 135 LBS WARP AND 207 LBS FILL BREAK STRENGTH (ASTM D5034)
 - 32.3% WARP AND 61.7% FILL BREAK ELONGATION (ASTM D5034)
 - 58.0 LBS WARP AND 70.3 LBS FILL TEAR STRENGTH (ASTM D5587)
 - 284 PSI BURSTING STRENGTH (ASTM D3786)
 - AVAILABLE IN SADDLE TAN OR NATURAL GREEN
 - AVAILABLE IN FIRE RETARDANT VERSION



MUSCLE WALL
675 N. 600 W STREET
LOGAN, UT 84321

MUSCLE WALL CHECK DAM/BASIN DETAIL
POST FIRE ALTERNATIVE
COLORADO DEPARTMENT OF TRANSPORTATION

PROJECT NO.: 0000.000.000

SCALE: NOT TO SCALE

DRAWN BY: CRH

CHECKED BY: JJT

FIGURE NO.

1

ORIGINAL FIGURE PRINTED IN COLOR



Bowman
Construction
Supply Inc.



Quick
Supply Co.



Cascade
GEOSYNTHETICS

LOCATIONS & CONTACT INFO

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SOLUTIONS WE SUPPLY

GEOSYNTHETICS

Filter Fabrics

Stabilization Fabrics

Geogrids

- Road Grids
- Wall Grids
- Slope Stabilization

Specialty Fabrics

Composite Geomembranes

- GCLs, PVC, HDPE, LLDPE, EPDM, Granular Bentonite

SEDIMENT CONTROL

Inlet Protection

- Grated Inlet, Curb Inlet, Area Inlet Protection

Ditch Checks

- Triangle Silt Dike
- GeoRidge

Perimeter Protection

- High and Low-Porosity Silt Fence, Straw Wattles, Silt Socks
- Safety Fence

Flocculants & Water Treatment

- Polymer-Based & Natural Flocculants

Sediment Basin Skimmers

Dewatering Bags

Trackout Control

- FODS
- Rumble Grates

Turbidity Curtains

EROSION CONTROL

Basic Hydraulically Applied Mulches

- Wood
- Paper
- Blends
- Straw

High-Performance Hydraulically

Applied Products

- BFM
- FGM
- Additives & Tackifiers

Temporary Erosion Control Blankets

- Coir & Jute Mat/Nettings
- Short-Term ECBs
- Extended-Term ECBs

Permanent Erosion Control Blankets

- Turf Reinforcement Mats
- HP-TRMs
- Anchor Reinforced Vegetation System

Structural BMPs

- Transition Mats
- Geoweb Cellular Confinement
- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
- Articulated Concrete Block
- Gabions
- Grout-Filled Geotextile Mats

Vegetation Establishment

- Native Seed & Turf Seed
- Fertilizers
- Organic Soil Additives
- Stratavault Soil Cells

STORMWATER MANAGEMENT

Water Quality

- Inlet Filter Boxes
- Pre-Treatment Chamber
- Nutrient Separating Baffle Boxes
- High-Flow Biofiltration Media
- Hydrodynamic Separators
- Stratavault

Water Quantity

- Modular Underground Storage Systems
- Chamber Detention Systems

Drainage

- HDPE Swale Liner
- Pipe & Fittings
- Drainage Composites
- Strip Drain

Inlet Structures

- PVC
- Drain Basins, In-Line Drains
- Landscape

Permeable Pavers

- Permeable Articulating Concrete Block
- Grass Pavers
- Gravel Pavers
- Concrete Pavers

SPECIALTY

Natural & Synthetic Coir Fiber Logs

Vegetated Reinforced Soil Slopes

Soil Anchors

Root Barrier System

AquaBlok

Muscle Wall

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SEDIMENT CONTROL | REVEGETATION & SOIL AMENDMENTS