United States Department of Agriculture
Forest Service

R2 ROCKY MOUNTAIN REGION
GRAND MESA, UNCOMPAHGRE & GUNNISON NATIONAL FORESTS

GRAND VALLEY RANGER DISTRICT
IN PARTNERSHIP WITH
MESQUITA COUNTY DEPARTMENT OF PUBLIC WORKS

SHIRTTAIL POINT PARKING LOT DESIGN

PROJECT LOCATION
LAT: 39.005916°
LONS: -108.26728°

NATIONAL MAP

LOCATION MAP

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* SPECIFICATIONS ARE FOUND IN:
** FPL-14 STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS & BRIDGES ON FEDERAL HIGHWAY PROJECTS

RECOMMENDED BY:
CURTIS CRLCS
FOREST ENGINEER

DISTRICT ENGINEER

FOREST SUPERVISOR
United States Department of Agriculture
Forest Service

R2 ROCKY MOUNTAIN REGION
GRAND MESA, UNCOMPAHGRE & GUNNISON NATIONAL FORESTS

GRAND VALLEY RANGER DISTRICT
IN PARTNERSHIP WITH
MESA COUNTY DEPARTMENT OF PUBLIC WORKS

SHIRTTAIL POINT PARKING LOT DESIGN

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** FP-14: STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS & BRIDGES ON FEDERAL HIGHWAY PROJECTS

RECOMMENDED BY:

- FOREST ENGINEER WILLIAM EDWARDS
- DISTRICT RANGER
- FOREST SUPERVISOR

Digitally signed by WILLIAM EDWARDS
Date: 2020/04/23 17:31:37-06'00'

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Quantities provided are estimates. Contractors are responsible for verifying quantities as appropriate for completing the job.

Construction Specifications:
- CXT Double Rocky Mountain Building Specifications
- Manual for Uniform Traffic Control Devices (MUTCD)
- Wood Product Sign Specifications
SHIRTTAIL POINT PARKING LOT

PARKING LOT AREA: 35350 SQ FT

"MINUS CRUSHED GRAVEL (4" THICK): CDOT CLASS 4 OR FP-14 GRADING C PER TABLE 703-2: 520 CU.YDS.

EARTH FILL: 2,230 CU.YDS.

EARTH CUT: 265 CU.YDS.

PROPOSED RESTROOMS. SEE ATTACHED CXT DOUBLE ROCKY MOUNTAIN BUILDING DRAWINGS & SPECIFICATIONS FOR MORE DETAILS.

GENERAL NOTES:

1. PRE-CONSTRUCTION MEETING MUST BE HELD TWO WEEKS PRIOR TO CONSTRUCTION.
2. EARTHWORKS CONTRACTOR MUST CONTACT DIG SAFE PRIOR TO CONSTRUCTION.
3. LAYOUT OF SITE TO BE COMPLETED BY FOREST SERVICE TECHNICIAN PRIOR TO CONSTRUCTION.
4. ALL CUT SLOPES WILL BE AT A 1:0:1 OR FLATTER. ALL FILL SLOPES WILL BE AT A 1:0:1 OR FLATTER.
5. ALL CULVERTS TO BE CMP AND MUST HAVE A MINIMUM DIAMETER OF 18". MINIMUM DEPTH OF COVER OVER CULVERTS WILL BE 12".
6. MAXIMUM GRADE OF PARKING LOT NOT TO EXCEED 5%. MINIMUM GRADE OF PARKING LOT NOT TO FALL BELOW 3%.
7. AS-BUILT SURVEY AND INSPECTION SURVEYS TO BE COMPLETED BY FOREST SERVICE.
8. ALL STOCKPILED TOPSOIL MATERIAL WILL BE SPREAD IN DISTURBED AREAS PRIOR TO SEEDING.
9. PARKING LOT IS FOR SEASONAL USE AND WILL BE CLOSED DURING THE WINTER.

DIAL 811 or colorado811.org

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SHIRTTAIL POINT PARKING LOT

GRAND MESA, UNCOMPAGHRE & GUNNISON NATIONAL FOREST

GRAND VALLEY RANGER DISTRICT

NOTE: BARRICADE ROCKS TO BE SELECTED FROM AVAILABLE MATERIAL ON & ADJACENT TO SITE.

TYPICAL ROCK GROUPING IS 1-3 ROCKS PLACED WEATHERED SIDE UP

ROCK WALL BARRICADE TYPICAL PLAN DETAIL

ROCK WALL BARRICADE TYPICAL PROFILE DETAIL

TYPICAL ROCK GROUPING IS 1-3 ROCKS PLACED WEATHERED SIDE UP

MINIMUM OF 12" BETWEEN INDIVIDUAL STONES TO MINIMIZE ENTRAPMENT INJURIES. MAXIMUM OF 48" SPACING BETWEEN STONES TO EXCLUDE VEHICLE TRAFFIC.

NOTE: BARRICADE ROCKS TO BE SELECTED FROM AVAILABLE MATERIAL ON & ADJACENT TO SITE.

TYPICAL ROCK GROUPING IS 1-3 ROCKS PLACED WEATHERED SIDE UP

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COMPACT SUBGRADE IN 6" LIFTS MAXIMUM FOUR ROLLER PASSES PER LIFT WITH A LABORATORY ROLLER HAVING A MINIMUM DYNAMIC FORCE OF 40,000 POUNDS. SEE FP-14 FOR SUITABLE SUBGRADE MATERIAL SPECIFICATIONS

ROCK WALL BARRICADE SEE DETAILS BELOW

CLEAR & GRUE EXISTING GRADE. SCARIFY TO A 6" DEPTH AND RECOMPACT PRIOR TO PLACEMENT OF FILL.

BASE LAYER OF WALL TO BE BURIED A MINIMUM OF 1.7 OR 1/3 THE HEIGHT OF THE WALL, WHICHEVER IS GREATER

MINIMUM OF 12" BETWEEN INDIVIDUAL STONES TO MINIMIZE ENTRAPMENT INJURIES. MAXIMUM OF 48" SPACING BETWEEN STONES TO EXCLUDE VEHICLE TRAFFIC.

FOOTNOTE:

BASE LAYER OF WALL TO BE BURIED A MINIMUM OF 1.7 OR 1/3 THE HEIGHT OF THE WALL, WHICHEVER IS GREATER

MINIMUM OF 12" BETWEEN INDIVIDUAL STONES TO MINIMIZE ENTRAPMENT INJURIES. MAXIMUM OF 48" SPACING BETWEEN STONES TO EXCLUDE VEHICLE TRAFFIC.

FIELD NOTES:

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FIELD NOTES:
NOTES:

1. TYPICAL DRAWING IS NOT TO SCALE.
2. THESE ARE TYPICAL DETAILS. SIZES & DIMENSIONS MAY VARY.
3. ALL COMPACTION TO BE COMPLETED IN 4" LIFTS MAXIMUM.
4. USE RAMMER COMPACTOR, PLATE COMPACTOR OR HAND TAMPER AROUND CULVERT.
5. WHERE CULVERT LENGTH EXCEEDS 20 FT USE APPROVED MANUFACTURERS BAND COUPLER TO JOIN PIPE ENDS.
6. PLACE CULVERT INVERT JUST BELOW DITCH BOTTOM.
7. PLACE CULVERT INVERT JUST BELOW DITCH BOTTOM.
8. CLEARING LIMITS.
9. ROADSIDE DITCH.

X-05

TYPICAL CULVERT CROSSING SIDE PROFILE VIEW
NOT TO SCALE

TOP OF ROAD

SHOULDER

FLOW

C/L DITCH

T/O OF DITCH

T/O OF SLOPE

DITCH DAM

TOP OF DITCH

T/O OF SLOPE

SHOULDER

FLOW

C/L DITCH

TYPICAL CULVERT CROSSING PLAN VIEW
NOT TO SCALE

TOP OF DITCH

C/L DITCH

T/O OF DITCH

T/O OF SLOPE

SHOULDER

FLOW

C/L DITCH

TYPICAL CULVERT CROSSING FRONT PROFILE VIEW
NOT TO SCALE

TOP OF ROAD

DITCH DAM
### STANDARD SIGNS

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<th>COLORS</th>
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<td>STOP</td>
<td>R1-1</td>
<td>36 X 36</td>
<td>WHITE ON RED</td>
<td>2</td>
</tr>
<tr>
<td>EXIT ONLY</td>
<td>R5-1</td>
<td>36 X 36</td>
<td>WHITE ON RED</td>
<td>2</td>
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<tr>
<td>PARKING ENTRANCE</td>
<td>R5-1A</td>
<td>42 X 30</td>
<td>BLACK ON WHITE</td>
<td>2</td>
</tr>
<tr>
<td>FS SHIELD</td>
<td>NA</td>
<td>9-02</td>
<td>BROWN</td>
<td>1</td>
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**NOTE:** SIGNS SHALL BE RETRO-REFLECTIVE AND CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS. FOREST SERVICE SHIELD WILL BE MADE FROM WESTERN RED CEDAR.

### CUSTOM SIGN

- **STOP**
- **EXIT ONLY**
- **PARKING ENTRANCE**
- **FS SHIELD**

### SIGN INSTALLATION DETAIL

- **STOP**
- **EXIT ONLY**
- **PARKING ENTRANCE**
- **FS SHIELD**

### U-CHANNEL STEEL POST DETAIL

- **U-CHANNEL ROLLED MILD CARBON STEEL PERFORATED POST**
- **GALVANIZED STEEL BOLTS**
- **BASE SLEEVE**

### TRAIL HEAD SIGN

- **TRAIL HEAD SIGN WITH WHITE TEXT ON BROWN BACKGROUND**

### SHIRT TAIL POINT PARKING LOT

- **GRAND MESA, UNCOMPAGHRE & GUNNISON NATIONAL FOREST**
- **GRAND VALLEY RANGER DISTRICT**

### SIGN DETAILS

- **MESSAGE**
  - STOP
  - EXIT ONLY
  - PARKING ENTRANCE
  - FS SHIELD
- **MUTCD #**
  - R1-1
  - R5-1
  - R5-1A
- **SIZE (INCHES)**
  - 36 X 36
  - 36 X 36
  - 42 X 30
  - 9-02
- **COLORS**
  - WHITE ON RED
  - WHITE ON RED
  - BLACK ON WHITE
  - BROWN
- **QUANTITY**
  - 2
  - 2
  - 2
  - 1

- **STOP**
- **EXIT ONLY**
- **PARKING ENTRANCE**
- **FS SHIELD**

- **X-06**
FOR REFERENCE ONLY

60" Dia Turning Circle

OPTIONAL WASTE PAPER BASKET
MOUNT 8" OFF FINISHED FLOOR (SEE MD)