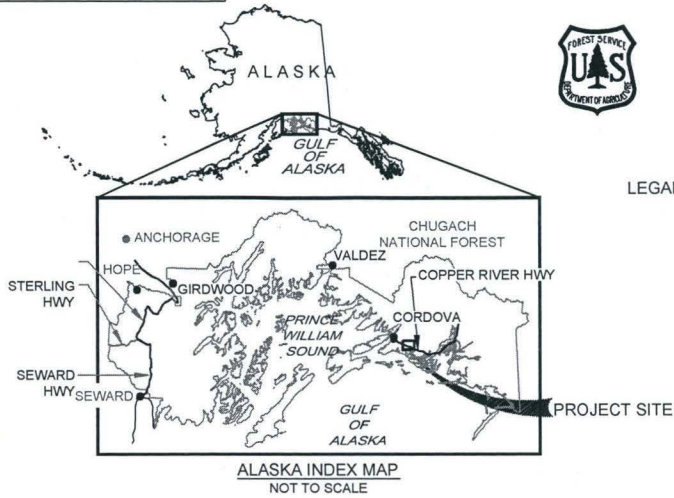


PLANS ARE 11X17 COLOR



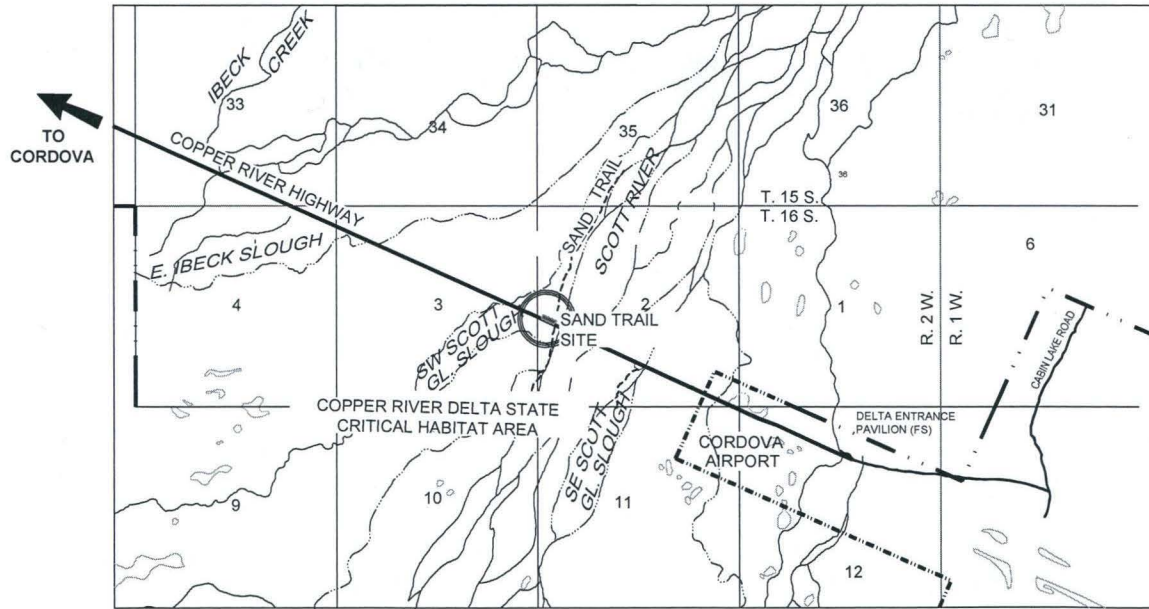
FOREST SERVICE - REGION TEN  
CHUGACH NATIONAL FOREST  
CORDOVA RANGER DISTRICT



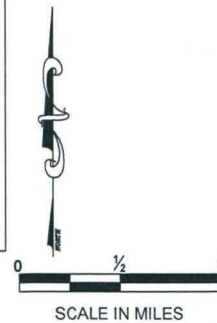
PLANS FOR PROPOSED CONSTRUCTION  
**SAND ROAD TRAIL PARKING AREA**  
LEGAL DESCRIPTION T. 16 S., R. 2 W., COPPER RIVER MERIDIAN

| SHEET INDEX |  |
|-------------|--|
| 1           | TITLE SHEET / VICINITY MAP             |
| 2           | ESTIMATE OF QUANTITIES / GENERAL NOTES |
| 3           | EXISTING SITE SURVEY                   |
| 4           | PROPOSED SITE PLAN                     |
| 5           | PROPOSED CENTERLINE PROFILE            |
| 6           | LAYOUT TABLES                          |
| 7           | CONSTRUCTION DETAILS                   |

POA-2014-432, Scott River, US Forest Service  
Sand Trail Parking Lot  
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Sheet 1 of 7, March 16, 2015



VICINITY MAP



| DESIGN                                |      |
|---------------------------------------|------|
| BRANDON GREEN                         |      |
| REVIEW                                | DATE |
| REVIEWING ENGINEER / MIKE LARMAN      |      |
| FOREST ENGINEER / GRIFF BERG          | DATE |
| RECOMMENDED BY                        | DATE |
| DISTRICT RANGER /                     | DATE |
| FOREST SUPERVISOR /                   | DATE |
| APPROVAL                              |      |
| DIRECTOR OF RLM /                     | DATE |
| DIRECTOR OF ENGINEERING / SAM CARLSON | DATE |

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SAND ROAD TRAIL PARKING AREA

PROJECT

ESTIMATE OF QUANTITIES /  
GENERAL NOTES

SHEET NAME



SHEETS

07

SHEET

02

ESTIMATE OF QUANTITIES

| ITEM NO. | DESCRIPTION  | PAY UNIT     | EST. QTY. | REMARKS<br>* DENOTES CONTRACT QUANTITY  |
|----------|--|--------------|-----------|---|
| 15101    | MOBILIZATION   | LUMP SUM     | ALL       | TEMPORARY TRAFFIC CONTROL, FIRE PROTECTION, EROSION CONTROL PLAN, AND EQUIPMENT WASHING INDIRECT TO PAY ITEM.                 |
| 15201    | CONSTRUCTION SURVEY AND STAKING, METHOD 1, TOLERANCE B             | LUMP SUM     | ALL       | PRECISION CLASS B. INCLUDES GRADE FINISHING STAKES.   |
| 15401    | CONTRACTOR TESTING   | LUMP SUM     | ALL       | INCLUDES TESTING FOR ALL MATERIALS.   |
| 20425    | BOULDER PLACEMENT  | EACH         | 12        |   |
| 20701    | EARTHWORK GEOTEXTILE TYPE COMBIGRID                                | SQUARE YARD* | 3400      | COMBIGRID 30/30 Q1 151 GRK 3 OR APPROVED EQUAL. PLACE BETWEEN PIT RUN AND EXISTING GROUND, QUANTITY DOES NOT INCLUDE OVERLAP. |
| 32222    | PIT RUN MAXIMUM SIZE 6", COMPACTION METHOD B                       | CUBIC YARD*  | 5470      |   |
| 32452    | AGGREGATE SUB-BASE, ALASKA STATE DOT, COMPACTION METHOD B          | CUBIC YARD*  | 780       | SUB-BASE GRADING A  |
| 32451    | AGGREGATE BASE, ALASKA STATE DOT, COMPACTION METHOD B              | CUBIC YARD*  | 550       | BASE GRADING D-1. INCLUDES SHOULDER AGGREGATE.  |
| 40451    | AKDOT 1/2-INCH DENSE GRADED HMAC, TYPE II, ASPHALT CEMENT PG 58-28 | TON          | 320.00    | CLASS "C" MIX DESIGN REQUIREMENTS. PLACE BASE AGGREGATE A MINIMUM OF 8 MONTHS PRIOR TO FINAL GRADING AND ASPHALT PLACEMENT.   |
| 63401    | PAVEMENT MARKINGS TYPE B   | FOOT         | 322       | 4" WIDTH WHITE STRIPING   |

GENERAL NOTES:

1. PRIOR TO ANY EXCAVATION CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY LOCATES, PUBLIC AND PRIVATE. DAMAGES RESULTING FROM OPERATIONS ARE RESPONSIBILITY OF THE CONTRACTOR TO FIX.
2. SUBMIT A TRAFFIC PLAN FOR APPROVAL BY THE CO PRIOR TO THE START OF OPERATIONS.
3. CO APPROVAL IS REQUIRED, PRIOR TO PLACEMENT OF GEOTEXTILE, AGGREGATE PLACEMENT, AND ASPHALT PLACEMENT. MINIMUM 72 HOUR NOTICE.
4. REPAIR ANY DAMAGE TO THE EXISTING ROAD SYSTEM DUE TO CONTRACTOR'S OPERATIONS, AT THE CONTRACTOR'S EXPENSE, PRIOR TO FINAL ACCEPTANCE.
5. PROVIDE POSITIVE DRAINAGE OF WATER FROM THE NEW ROADWAY.
6. STORAGE OF EQUIPMENT ON GOVERNMENT LANDS WILL BE AT THE CONTRACTOR'S RISK AND AT A LOCATION APPROVED BY THE CO.
7. DEPTHS OF MATERIALS ARE GIVEN AS FINAL COMPACTED DEPTHS.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

1. SUBMIT AN EROSION CONTROL PLAN, FOR APPROVAL BY THE CO PRIOR TO THE START OF OPERATIONS.
2. INITIATE STABILIZATION MEASURES AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 2 DAYS AFTER WORK HAS CEASED.
3. SHAPE TO DRAIN ALL DISTURBED AREAS PRIOR TO MULCHING.
5. INSPECT ALL SEDIMENT AND EROSION CONTROL DEVICES DAILY, OR MORE OFTEN WHEN NEEDED (SUCH AS DURING RAINFALL EVENTS). REPAIR OR REPLACE DAMAGED OR INEFFECTIVE DEVICES, OR ADD ADDITIONAL DEVICES IF NEEDED TO CONTAIN SEDIMENT AND PROTECT THE WATERS OF THE STATE.
6. REMOVE NON-BIODEGRADABLE TEMPORARY SEDIMENT CONTROL MATERIALS WITHIN 7 DAYS AFTER FINAL ACCEPTANCE.



APPROXIMATE LOCATION OF THE 0.93 ACRE SAND TRAIL SITE EIN 125A G, D9 AS SURVEYED APRIL 22, 1997 AND RECORDED NOV. 9, 2004 IN THE CORDOVA RECORDING DISTRICT AS PLAT #2004-17.

APPROX. LOCATION OF THE 25 FT. SAND TRAIL EASEMENT EIN 141 G, D9 IF EXTENDED TO THE PROPOSED REORIENTED SITE.

PROPOSED GENERAL LAYOUT OF A REORIENTED 1 ACRE SITE TO REPLACE EXISTING SAND TRAIL SITE EIN 125A G, D9

COPPER RIVER HWY RIGHT-OF WAY (APPROX.)  
100 FEET EACH SIDE OF THE CENTERLINE PER OMNIBUS BILL OF 1959.

6"X6" WOOD POST WITH UTILITY CABLE BOX, 36" ABOVE GROUND

SAND ROAD TRAIL

SCOTT RIVER

CRD 2054

COPPER RIVER HIGHWAY  
±MP 9.0

MP 9.0 BRIDGE

GUARDRAIL

CONCRETE PAVERS ALONG THE SCOTT RIVER BRIDGE ABUTMENT

CRD 2053

LEGEND

EXISTING EDGE OF ASPHALT (COPPER RIVER HIGHWAY)

TRAIL CENTERLINE

SCOTT RIVER WATERLINE (06/2005)

◆ CONTROL POINT ◆



SCALE IN FEET  
CONTOUR INTERVAL 2'

COORDINATES ASSUMED AT CONTROL POINT CRD 2053

BASIS OF BEARING CONTROL POINT CRD 2053 TO CONTROL POINT CRD 2054  
S 72° 29' 22" E 387.36 ft. WITH 26° EAST DECLINATION

| CONTROL POINT | NORTHING | EASTING  | ELEVATION | DESCRIPTION                 |
|---------------|----------|----------|-----------|-----------------------------|
| CRD 2053      | 5000.00  | 10000.00 | 40.6      | REBAR W/ YELLOW PLASTIC CAP |
| CRD 2054      | 4883.42  | 10369.50 | 41.1      | REBAR W/ YELLOW PLASTIC CAP |

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Sheet 3 of 7, March 16, 2015



SAND ROAD TRAIL PARKING AREA

PROJECT

EXISTING SITE SURVEY

SHEET NAME



SHEETS 07

SHEET 03



SAND ROAD TRAIL PARKING AREA

PROJECT

PROPOSED SITE PLAN

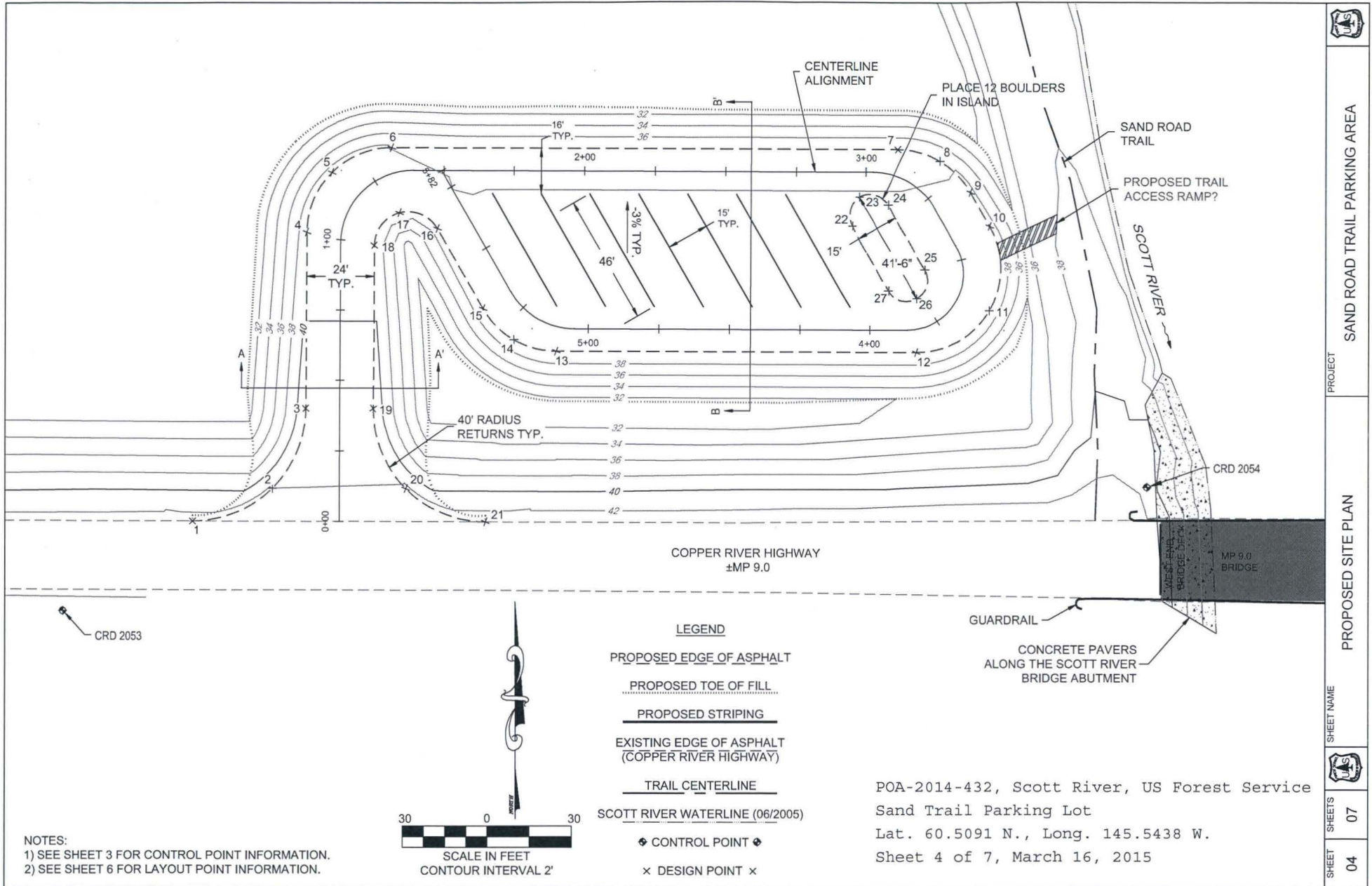
SHEET NAME



SHEETS

04

07



COPPER RIVER HIGHWAY  
±MP 9.0

LEGEND

PROPOSED EDGE OF ASPHALT

PROPOSED TOE OF FILL

PROPOSED STRIPING

EXISTING EDGE OF ASPHALT  
(COPPER RIVER HIGHWAY)

TRAIL CENTERLINE

SCOTT RIVER WATERLINE (06/2005)

◆ CONTROL POINT ◆

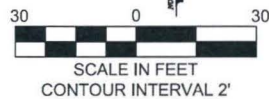
x DESIGN POINT x

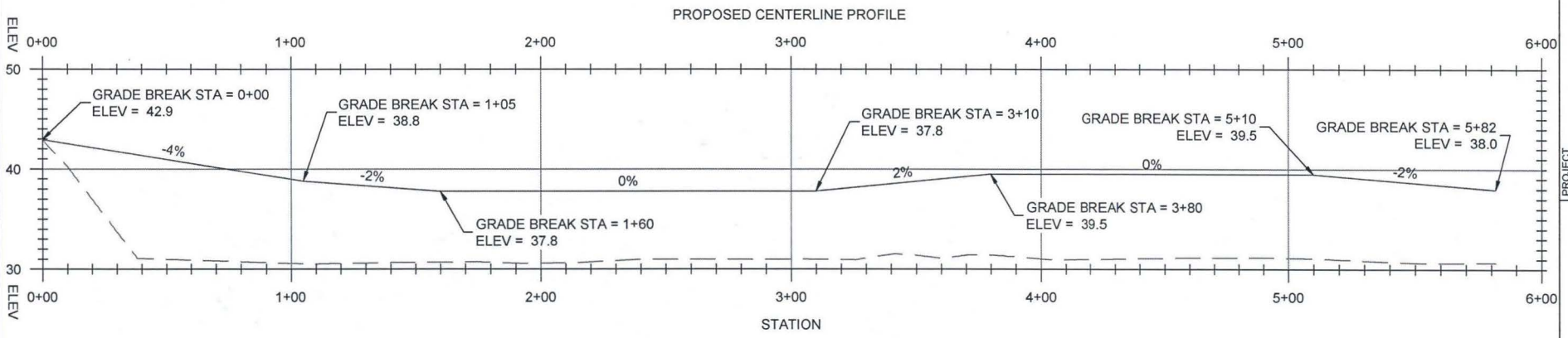
GUARDRAIL

CONCRETE PAVERS  
ALONG THE SCOTT RIVER  
BRIDGE ABUTMENT

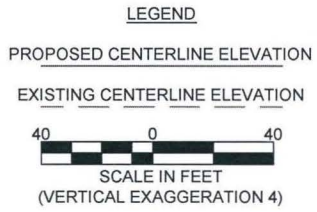
POA-2014-432, Scott River, US Forest Service  
Sand Trail Parking Lot  
Lat. 60.5091 N., Long. 145.5438 W.  
Sheet 4 of 7, March 16, 2015

NOTES:  
1) SEE SHEET 3 FOR CONTROL POINT INFORMATION.  
2) SEE SHEET 6 FOR LAYOUT POINT INFORMATION.





NOTES:  
 1) DUE TO THE RELATIVE GRADES, AND CHARACTER OF THE FACILITY, VERTICAL CURVES ARE UNNECESSARY AND HAVE BEEN OMITTED. THE CO MAY REQUIRE VERTICAL CURVATURE BE CONSTRUCTED IN THE FIELD.





| DESIGN POINT | NORTHING | EASTING  | ELEVATION      | DESIGN POINT | NORTHING | EASTING  | ELEVATION      |
|--------------|----------|----------|----------------|--------------|----------|----------|----------------|
| 1            | 5010.23  | 10055.07 | MATCH EXISTING | 15           | 5037.01  | 10179.84 | 39.1           |
| 2            | 5009.30  | 10085.68 | 42.0           | 16           | 5069.63  | 10176.54 | 38.4           |
| 3            | 5030.29  | 10107.98 | 41.1           | 17           | 5080.26  | 10166.52 | 38.8           |
| 4            | 5087.39  | 10133.66 | 38.9           | 18           | 5073.34  | 10153.66 | 39.1           |
| 5            | 5103.13  | 10150.38 | 38.5           | 19           | 5020.42  | 10129.85 | 41.1           |
| 6            | 5102.44  | 10173.33 | 38.0           | 20           | 4989.81  | 10128.94 | 42.1           |
| 7            | 5028.59  | 10337.49 | 37.6           | 21           | 4967.52  | 10149.95 | MATCH EXISTING |
| 8            | 5018.77  | 10349.52 | 37.9           | 22           | 5010.64  | 10311.29 | 38.4           |
| 9            | 5004.25  | 10355.03 | 38.2           | 23           | 5018.86  | 10318.00 | 38.1           |
| 10           | 4990.46  | 10356.43 | 38.5           | 24           | 5012.15  | 10326.22 | 38.2           |
| 11           | 4963.10  | 10344.12 | 39.1           | 25           | 4985.76  | 10328.89 | 38.9           |
| 12           | 4960.08  | 10314.27 | 39.7           | 26           | 4977.54  | 10322.18 | 39.2           |
| 13           | 5012.67  | 10197.38 | 39.7           | 27           | 4984.25  | 10313.97 | 39.1           |
| 14           | 5022.49  | 10185.35 | 39.4           |              |          |          |                |

| CURVE LAYOUT TABLE |                   |        |        |               |
|--------------------|-------------------|--------|--------|---------------|
| PC (DESIGN POINT)  | PT (DESIGN POINT) | LENGTH | RADIUS | CENTRAL ANGLE |
| 1                  | 3                 | 57.3   | 40.0   | 81.4          |
| 4                  | 6                 | 47.0   | 30.0   | 89.1          |
| 7                  | 9                 | 31.4   | 30.0   | 60.0          |
| 10                 | 12                | 62.7   | 30.0   | 119.4         |
| 13                 | 15                | 31.4   | 30.0   | 60.0          |
| 16                 | 18                | 31.4   | 12.0   | 150.0         |
| 19                 | 21                | 62.8   | 40.0   | 89.9          |
| 22                 | 24                | 23.6   | 7.5    | 180.0         |
| 25                 | 27                | 23.6   | 7.5    | 180.0         |

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CL LINE LAYOUT TABLE

| CL STATION | NORTHING | EASTING  | * CL ELEVATION | FINISHED SURFACE TOP WIDTH | NOTES                              | CL STATION | NORTHING | EASTING  | * CL ELEVATION | FINISHED SURFACE TOP WIDTH | NOTES         |
|------------|----------|----------|----------------|----------------------------|------------------------------------|------------|----------|----------|----------------|----------------------------|---------------|
| 0+00       | 4988.84  | 10102.49 | MATCH EX       | 104                        | MATCH EXISTING ROADWAY CROSS SLOPE | 3+00       | 5026.01  | 10323.71 | 37.8           | 16                         | -3% OUT SLOPE |
| 0+10       | 4997.96  | 10106.60 | 42.5           | 51.2                       | TRANSITION TO 0% CROSS SLOPE       | 3+10       | 5020.94  | 10332.27 | 37.8           | 19                         |               |
| 0+20       | 5007.08  | 10110.70 | 42.1           | 34.8                       | 0% CROSS SLOPE                     | 3+20       | 5013.09  | 10338.38 | 38.0           | 25.6                       |               |
| 0+30       | 5016.20  | 10114.80 | 41.7           | 26.6                       | 0% CROSS SLOPE                     | 3+30       | 5003.53  | 10341.10 | 38.3           | 27.9                       |               |
| 0+40       | 5025.32  | 10118.90 | 41.4           | 24                         | 0% CROSS SLOPE                     | 3+40       | 4993.59  | 10342.10 | 38.6           | 27.9                       |               |
| 0+50       | 5034.44  | 10123.00 | 41.0           | 24                         | 0% CROSS SLOPE                     | 3+50       | 4983.63  | 10342.38 | 38.8           | 27.5                       |               |
| 0+60       | 5043.56  | 10127.10 | 40.6           | 24                         | 0% CROSS SLOPE                     | 3+60       | 4974.59  | 10338.35 | 39.1           | 25.3                       |               |
| 0+70       | 5052.68  | 10131.21 | 40.2           | 24                         | 0% CROSS SLOPE                     | 3+70       | 4968.60  | 10330.47 | 39.3           | 22.3                       |               |
| 0+80       | 5061.80  | 10135.31 | 39.8           | 24                         | 0% CROSS SLOPE                     | 3+80       | 4967.11  | 10320.69 | 39.5           | 19.4                       |               |
| 0+90       | 5070.92  | 10139.41 | 39.4           | 24                         | 0% CROSS SLOPE                     | 3+90       | 4970.22  | 10311.25 | 39.5           | 18.9                       |               |
| 1+00       | 5080.03  | 10143.54 | 39.0           | 24.1                       | 0% CROSS SLOPE                     | 4+00       | 4974.32  | 10302.13 | 39.5           | 33.6                       | -3% OUT SLOPE |
| 1+10       | 5087.84  | 10149.69 | 38.7           | 25.5                       | TRANSITION TO -3% OUT SLOPE        | 4+10       | 4978.42  | 10293.01 | 39.5           | 72                         | -3% OUT SLOPE |
| 1+20       | 5092.77  | 10158.32 | 38.5           | 25.4                       | TRANSITION TO -3% OUT SLOPE        | 4+20       | 4982.52  | 10283.89 | 39.5           | 72                         | -3% OUT SLOPE |
| 1+30       | 5094.11  | 10168.17 | 38.3           | 24                         | TRANSITION TO -3% OUT SLOPE        | 4+30       | 4986.63  | 10274.77 | 39.5           | 72                         | -3% OUT SLOPE |
| 1+40       | 5091.66  | 10177.80 | 38.1           | 22.9                       | TRANSITION TO -3% OUT SLOPE        | 4+40       | 4990.73  | 10265.65 | 39.5           | 72                         | -3% OUT SLOPE |
| 1+50       | 5087.55  | 10186.92 | 38.0           | 32.3                       | -3% OUT SLOPE                      | 4+50       | 4994.83  | 10256.53 | 39.5           | 72                         | -3% OUT SLOPE |
| 1+60       | 5083.45  | 10196.04 | 37.8           | 49.6                       | -3% OUT SLOPE                      | 4+60       | 4998.94  | 10247.41 | 39.5           | 72                         | -3% OUT SLOPE |
| 1+70       | 5079.35  | 10205.16 | 37.8           | 64.1                       | -3% OUT SLOPE                      | 4+70       | 5003.04  | 10238.29 | 39.5           | 72                         | -3% OUT SLOPE |
| 1+80       | 5075.25  | 10214.28 | 37.8           | 70.2                       | -3% OUT SLOPE                      | 4+80       | 5007.14  | 10229.17 | 39.5           | 72                         | -3% OUT SLOPE |
| 1+90       | 5071.14  | 10223.40 | 37.8           | 72                         | -3% OUT SLOPE                      | 4+90       | 5011.24  | 10220.05 | 39.5           | 72                         | -3% OUT SLOPE |
| 2+00       | 5067.04  | 10232.52 | 37.8           | 72                         | -3% OUT SLOPE                      | 5+00       | 5015.35  | 10210.93 | 39.5           | 72                         | -3% OUT SLOPE |
| 2+10       | 5062.94  | 10241.64 | 37.8           | 72                         | -3% OUT SLOPE                      | 5+10       | 5019.90  | 10202.05 | 39.5           | 73.4                       |               |
| 2+20       | 5058.84  | 10250.75 | 37.8           | 72                         | -3% OUT SLOPE                      | 5+20       | 5027.13  | 10195.23 | 39.3           | 82.2                       |               |
| 2+30       | 5054.73  | 10259.87 | 37.8           | 72                         | -3% OUT SLOPE                      | 5+30       | 5036.38  | 10191.61 | 39.1           | 4.6                        |               |
| 2+40       | 5050.63  | 10268.99 | 37.8           | 72                         | -3% OUT SLOPE                      | 5+40       | 5046.32  | 10190.52 | 38.8           | 99.8                       |               |
| 2+50       | 5046.53  | 10278.11 | 37.8           | 72                         | -3% OUT SLOPE                      | 5+50       | 5056.27  | 10189.52 | 38.5           | 82.5                       |               |
| 2+60       | 5042.42  | 10287.23 | 37.8           | 72                         | -3% OUT SLOPE                      | 5+60       | 5066.22  | 10188.51 | 38.3           | 65.2                       |               |
| 2+70       | 5038.32  | 10296.35 | 37.8           | 72                         | -3% OUT SLOPE                      | 5+70       | 5076.17  | 10187.50 | 38.1           | 49.1                       |               |
| 2+80       | 5034.22  | 10305.47 | 37.8           | 72                         | -3% OUT SLOPE                      | 5+82       | 5087.82  | 10186.33 | N/A            | 71.25                      |               |
| 2+90       | 5030.12  | 10314.59 | 37.8           | 72                         | -3% OUT SLOPE                      |            |          |          |                |                            |               |

\*FINISHED ASPHALT SURFACE



SAND ROAD TRAIL PARKING AREA

PROJECT

LAYOUT TABLES

SHEET NAME



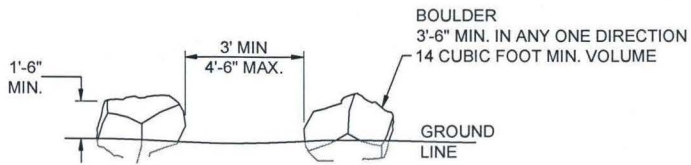
SHEETS 07

SHEET 06

POA-2014-432, Scott River, US Forest Service  
 Sand Trail Parking Lot  
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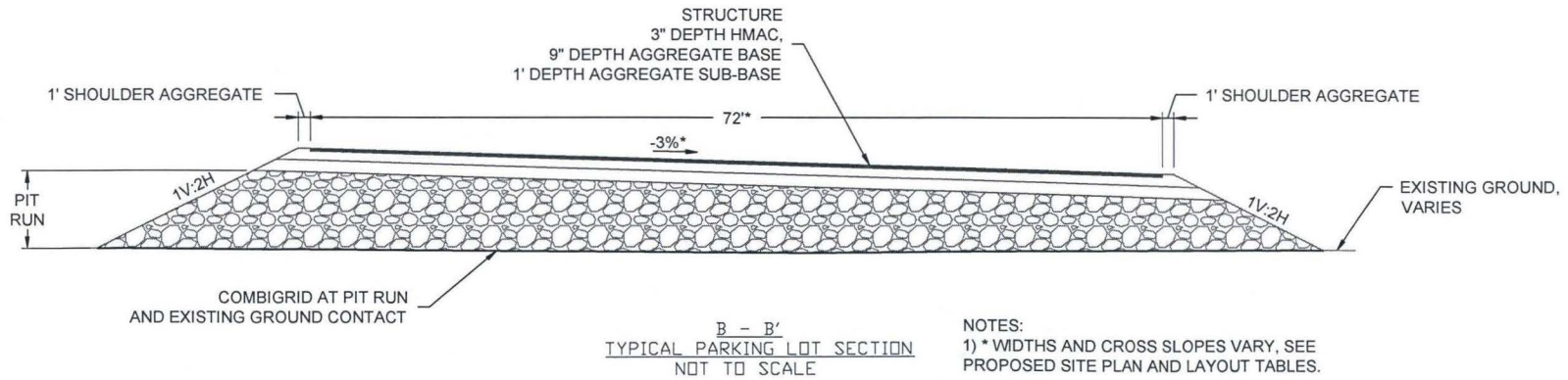
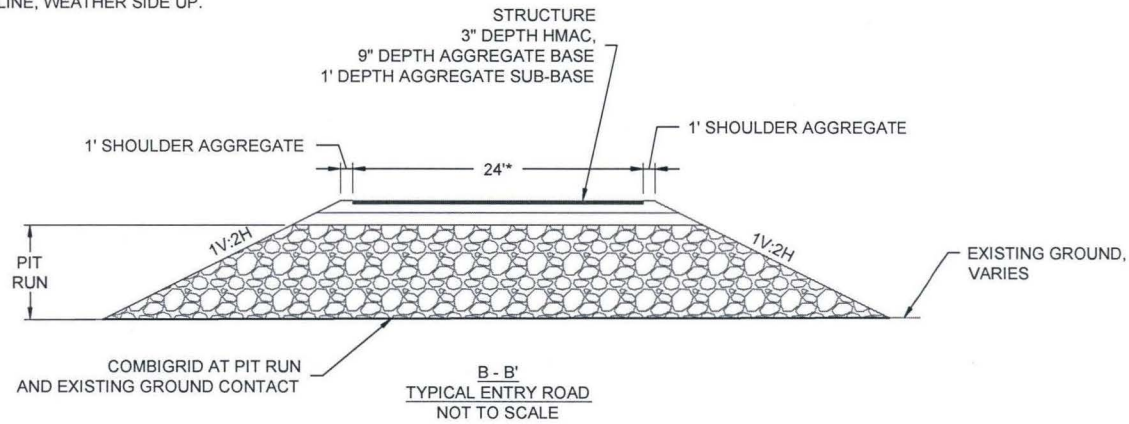


PROJECT SAND ROAD TRAIL PARKING AREA



**BOULDER PLACEMENT DETAILS**  
 NOT TO SCALE

- NOTES:  
 1) BOULDER LOCATIONS TO BE STAKED BY CO.  
 2) SET BOULDER  $\frac{1}{8}$  TO  $\frac{1}{2}$  BELOW GROUND LINE, WEATHER SIDE UP.



- NOTES:  
 1) \* WIDTHS AND CROSS SLOPES VARY, SEE PROPOSED SITE PLAN AND LAYOUT TABLES.

CONSTRUCTION DETAILS

SHEET NAME



SHEETS

07

SHEET

07