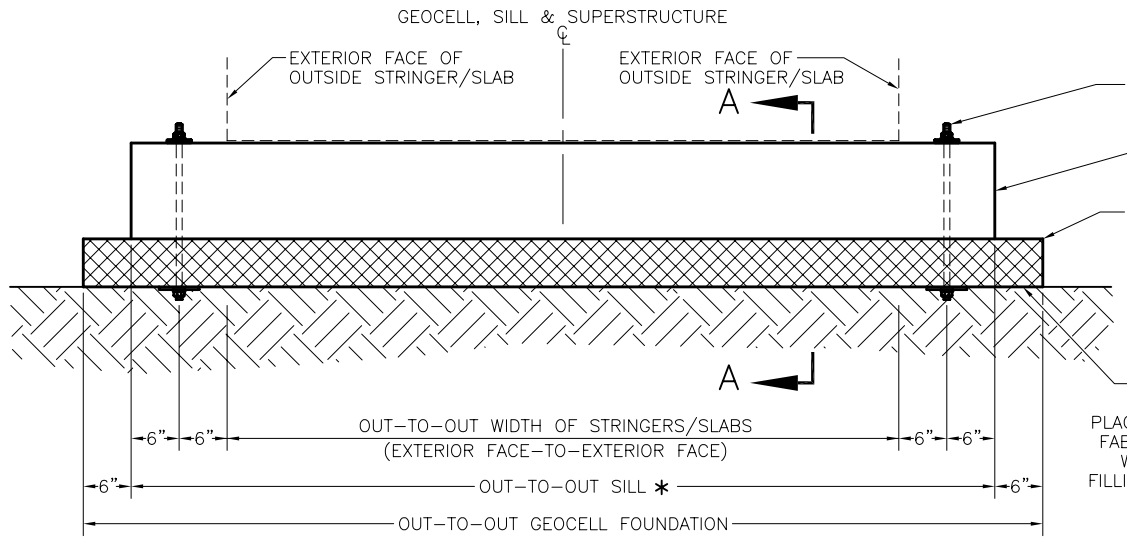
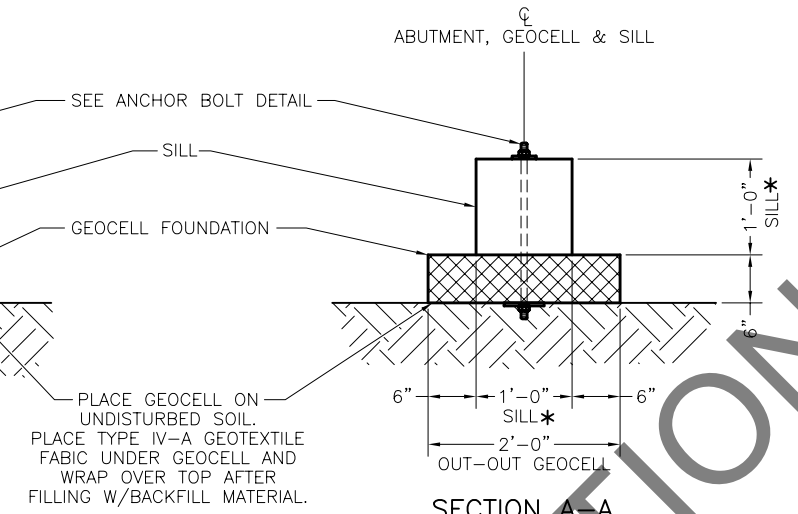


ELEVATION – GEOCELL FOUNDATION

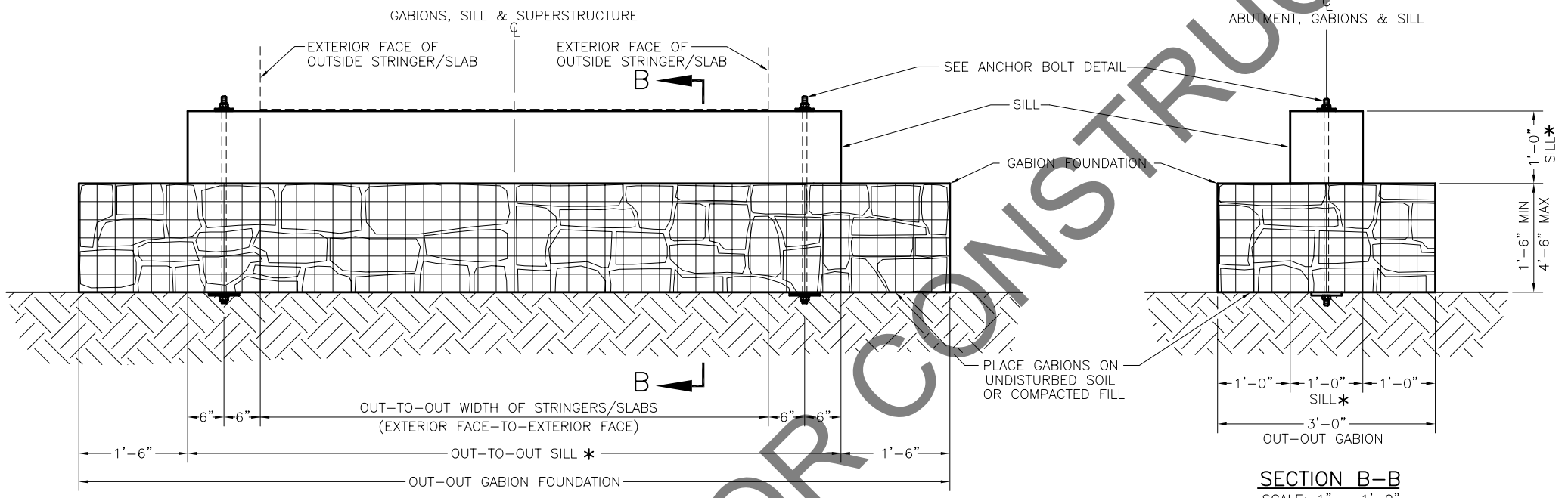
RA891A1
SCALE: 1" = 1'-0"



SECTION A-A

SCALE: 1" = 1'-0"

* SILL MATERIAL AND DIMENSIONS WILL VARY. REFER TO SUPERSTRUCTURE SHEETS FOR ACTUAL SILL DIMENSIONS AND ADJUST GEOCELL AS NEEDED.



ELEVATION – GABION FOUNDATION

RA891B1
SCALE: 1" = 1'-0"

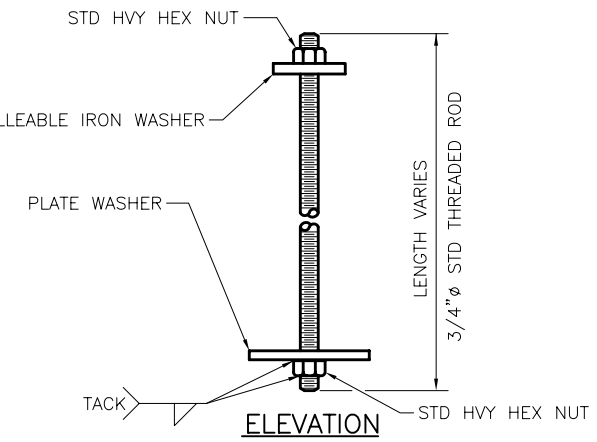
SECTION B-B

SCALE: 1" = 1'-0"

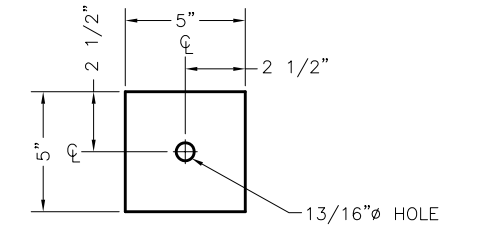
* SILL MATERIAL AND DIMENSIONS WILL VARY. REFER TO SUPERSTRUCTURE SHEETS FOR ACTUAL SILL DIMENSIONS AND ADJUST GABION AS NEEDED.

STANDARD GABION BASKET SIZES

SIZE			NO. OF DIAPHRAGMS	CAPACITY CUBIC YARDS
LENGTH	WIDTH	HEIGHT		
6 FT	3 FT	3 FT	1	2
9 FT	3 FT	3 FT	2	3
12 FT	3 FT	3 FT	3	4
6 FT	3 FT	1.5 FT	1	1
9 FT	3 FT	1.5 FT	2	1.5
12 FT	3 FT	1.5 FT	3	2
6 FT	3 FT	1 FT	1	0.67
9 FT	3 FT	1 FT	2	1
12 FT	3 FT	1 FT	3	1.33



ELEVATION



3/8" A-36 STEEL PLATE WASHER DETAIL

ANCHOR BOLT DETAIL

SCALE: 3" = 1'-0"
RA891C1

FOUNDATION NOTES:

SPECIFICATIONS: MATERIALS AND CONSTRUCTION OF THIS STRUCTURE SHALL BE IN ACCORDANCE WITH THE CURRENT ADOPTED USDA FOREST SERVICE SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES, AS MODIFIED FOR THIS CONTRACT.

HARDWARE AND STRUCTURAL STEEL: SEE SUPERSTRUCTURE DRAWINGS FOR PROJECT DESIGN CRITERIA AND GENERAL NOTES.

GEOCELL ABUTMENT STABILIZATION: REFER TO THE SPECIAL PROJECT SPECIFICATIONS FOR A DESCRIPTION OF THE WORK, MATERIALS, AND INSTALLATION PROCEDURES.

GABION FOUNDATIONS: REFER TO GABION FOUNDATION NOTES.

GABION FOUNDATION NOTES:

GABION BASKETS SHALL BE CONSTRUCTED USING WIRE MESH (U.S. STANDARD GAGE 9). BASKETS CONSTRUCTED USING TWISTED WIRE MESH WILL NOT BE ALLOWED. WELDED WIRE MESH SHALL BE POLYVINYL CHLORIDE COATED (PVC) WHERE BASKETS ARE EXPOSED TO CORROSIVE SOILS.

MATERIAL USED TO FILL THE GABION SHALL BE 4" – 8" HARD, DURABLE, ANGULAR ROCK.

ROCK MAY BE PLACED MECHANICALLY PROVIDED CARE IS TAKEN TO ENSURE THAT IT IS TIGHTLY PACKED WITH A MINIMUM OF VOIDS. FOR EXPOSED FACES, HAND LABOR SHALL BE USED TO KEEP THE MESH VERTICAL, PREVENT BULGING, AND TO PRODUCE AN ATTRACTIVE APPEARANCE.

ALL GABIONS SHALL BE PLACED ON UNDISTURBED SOIL OR A FOUNDATION OF SUITABLE MATERIAL. REMOVE AND REPLACE UNSUITABLE SOILS WITH A MINIMUM OF 12-INCHES OF COARSE GRANULAR BACKFILL. COMPACT BACKFILL MATERIAL AT AN OPTIMUM MOISTURE CONTENT WITH A VIBRATOR COMPACTOR. OPERATE COMPACTION EQUIPMENT OVER THE FULL WIDTH OF THE FOUNDATION AREA UNTIL VISIBLE DEFORMATION OF THE BACKFILL CEASES.

BACKFILL BEHIND GABIONS CONCURRENTLY WITH THE CELL FILLING OPERATION. BACKFILL THE AREA BEHIND GABIONS WITH A COARSE GRANULAR MATERIAL. COMPACT BACKFILL MATERIAL AT AN OPTIMUM MOISTURE CONTENT WITH A VIBRATOR COMPACTOR. OPERATE COMPACTION EQUIPMENT OVER THE FULL WIDTH OF THE IN-FILL AREA UNTIL VISIBLE DEFORMATION OF THE BACKFILL CEASES.

Dwg. of

-REDUCED-
DO NOT SCALE DRAWING

REV.	DESCRIPTION	APPROVED	DATE
1	REVISED TO R-6 STRUCTURES CAD STANDARDS	MOE	3/24/05

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
THE PACIFIC NORTHWEST REGION (R-6)

ABUTMENT EXAMPLE
GEOCELL / ROCK GABIONS
TRAIL BRIDGE DESIGN AID

Forest: **Loading:**
Bridge No.: **Length:**
Location: **Width:**

Designed: **Drawn:** L.McNEAL **Checked:**

Approved: /S/ MERVIN O. ERIKSSON **Date:** 03/03/2004
REGIONAL BRIDGE ENGINEER

APPROVED:

_____ DATE _____
FOREST ENGINEER

DWG NO.

SHEET 1 of 1 | **DESIGN AID RA891**