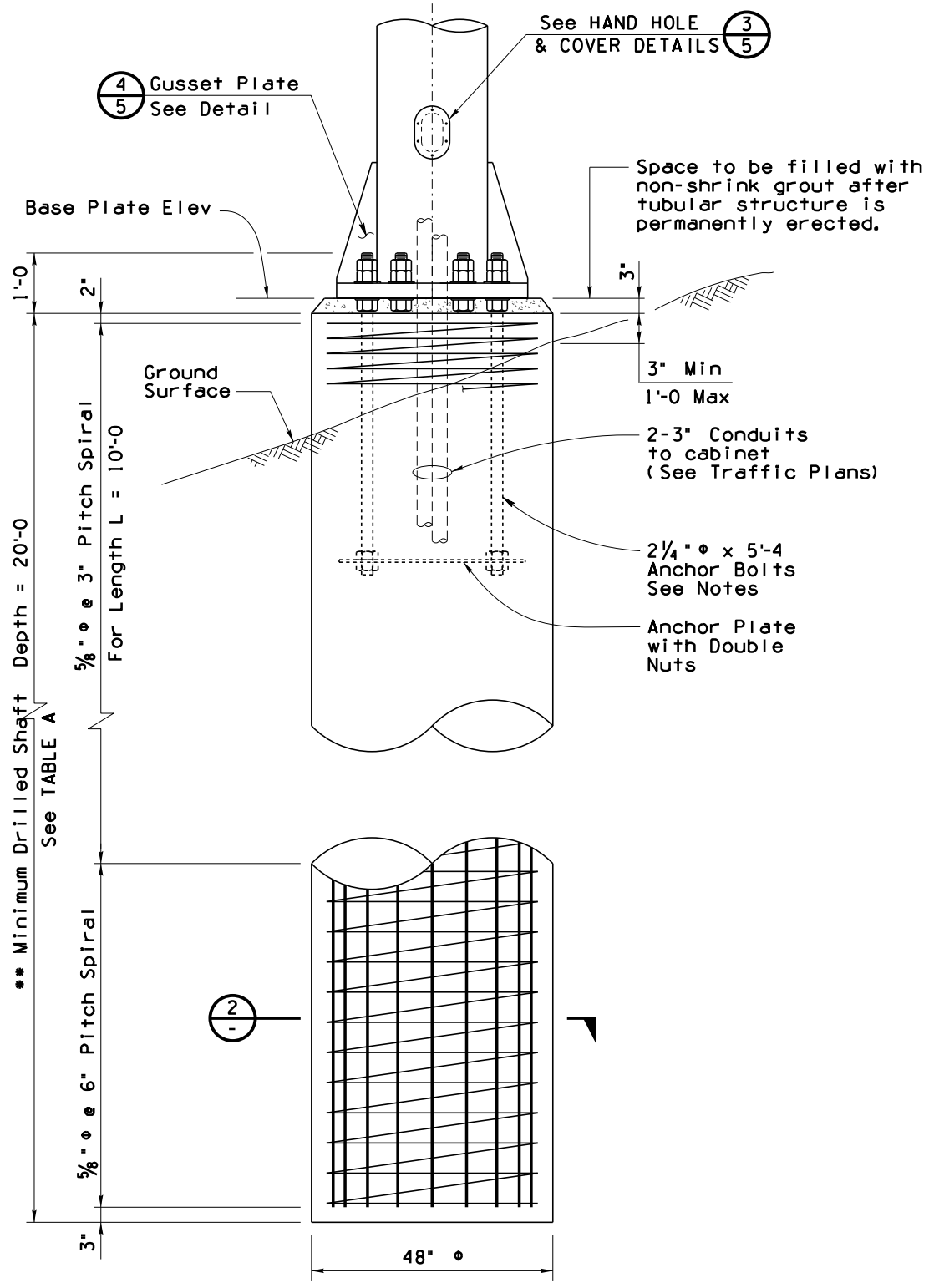


Note: to Designer: presented in this Standard Drawing has been prepared in accordance with recognized engineering principles and is, for general use, it should not be used for specific application without competent professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.



DRILLED SHAFT ELEVATION (1)

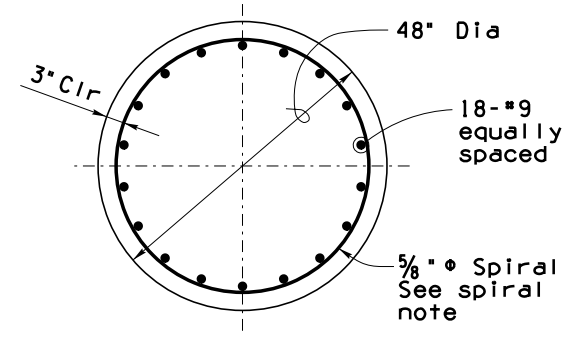
(**) Drilled shaft depth is based on uniform soils condition with unit weight = 110 pcf, friction angle $\phi = 29$ degrees, modulus of subgrade reaction $K = 50$ psf/ft. Depth or design of the drilled shaft shall be revised by the Engineer of Record for weaker soils or rock embedment, and all revision shall be shown on the project plans.

TABLE A	
Max. Slope	'X'
8:1	0'
6:1	1'
4:1	2'
2:1	4'
1 1/2:1	5'
1:1	8'

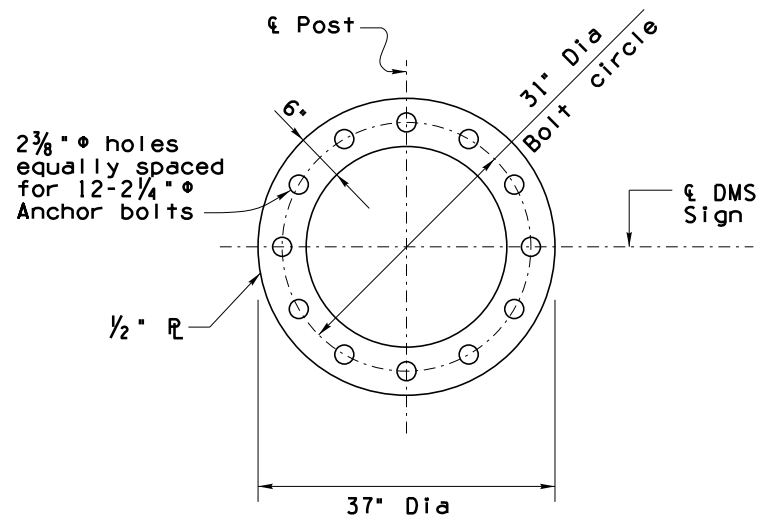
Drilled Shaft Depth shall be adjusted for ground slope. Add a value of 'X' in TABLE A to the minimum Drilled Shaft depth to obtain the total length of shaft.

NOTES:

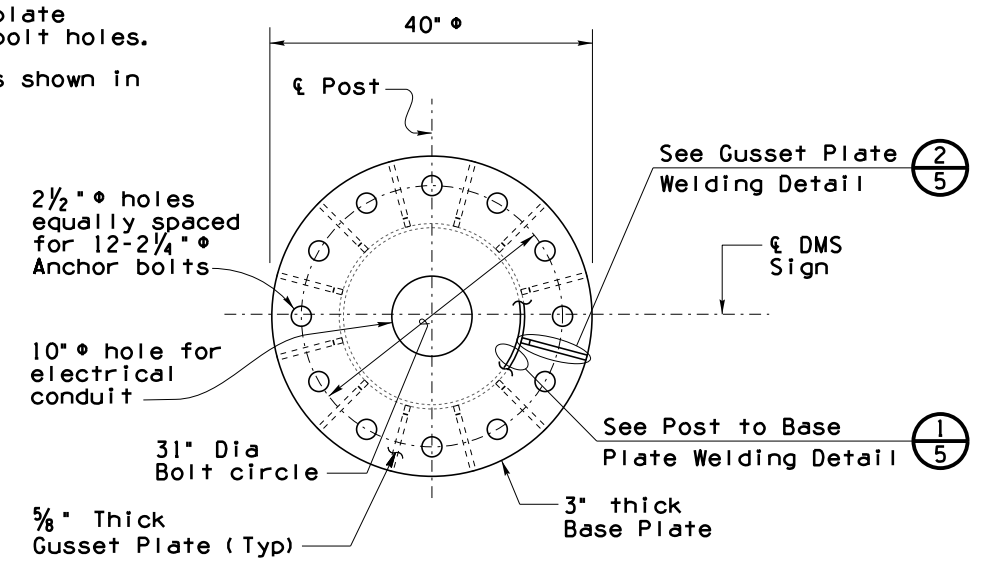
- Provide 2 Hardened Steel washers, 2 Hex nuts and one leveling nut for each bolt. At final position of post, all top and bottom nuts of anchor bolts shall be snug tightened against base plate.
- Gusset plates shall be placed perpendicular to base plate and post face, and shall be centered between anchor bolt holes.
- Base Plate, Post, and Gusset plates welds shall be as shown in Details 1 and 2 on Sheet S-9.60 (5 of 7).



SECTION (2)



1/2" ANCHOR PLATE DETAILS (4)



3" BASE PLATE DETAILS (3)

FOUNDATION NOTES:

- All anchor bolts shall conform to ASTM F1554 Grade 55 Specifications. The upper 1'-2" and lower 6" shall be threaded. The upper 1'-8" shall be galvanized in accordance with the requirements of ASTM A153.
- Provide bolt template during installation of anchor bolts. The bolt template shall be fabricated of 1/4" thick (Min.) steel plate, similar to anchor plate details, and shall be match drilled to each base plate.
- Drilled shaft concrete shall be class S, and shall be placed within undisturbed material or compacted embankment.
- Top of drilled shaft shall be formed to 1'-0" below ground surface. Compacted backfill shall be in place prior to erecting post.
- Butterfly sign structure foundation in the median includes a formed pedestal. See SD 9.10 (5 of 5) for median formed pedestal details.

SPIRAL NOTE:

The 5/8" diameter spiral shall be cold drawn steel wire conforming to AASHTO M32, except minimum Yield Strength = 60,000 psi. Lap 1 1/2 turns at top and bottom of spiral.

STANDARDS ENGINEER A. ALZUBI RECOMMENDED FOR APPROVAL GROUP MANAGER	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION BRIDGE GROUP STANDARD DRAWING	
	APPROVED D. EBERHART	DYNAMIC MESSAGE SIGN BUTTERFLY FOUNDATION DETAILS
STANDARDS COMMITTEE APPROVED FOR DISTRIBUTION		DATE 03/22

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