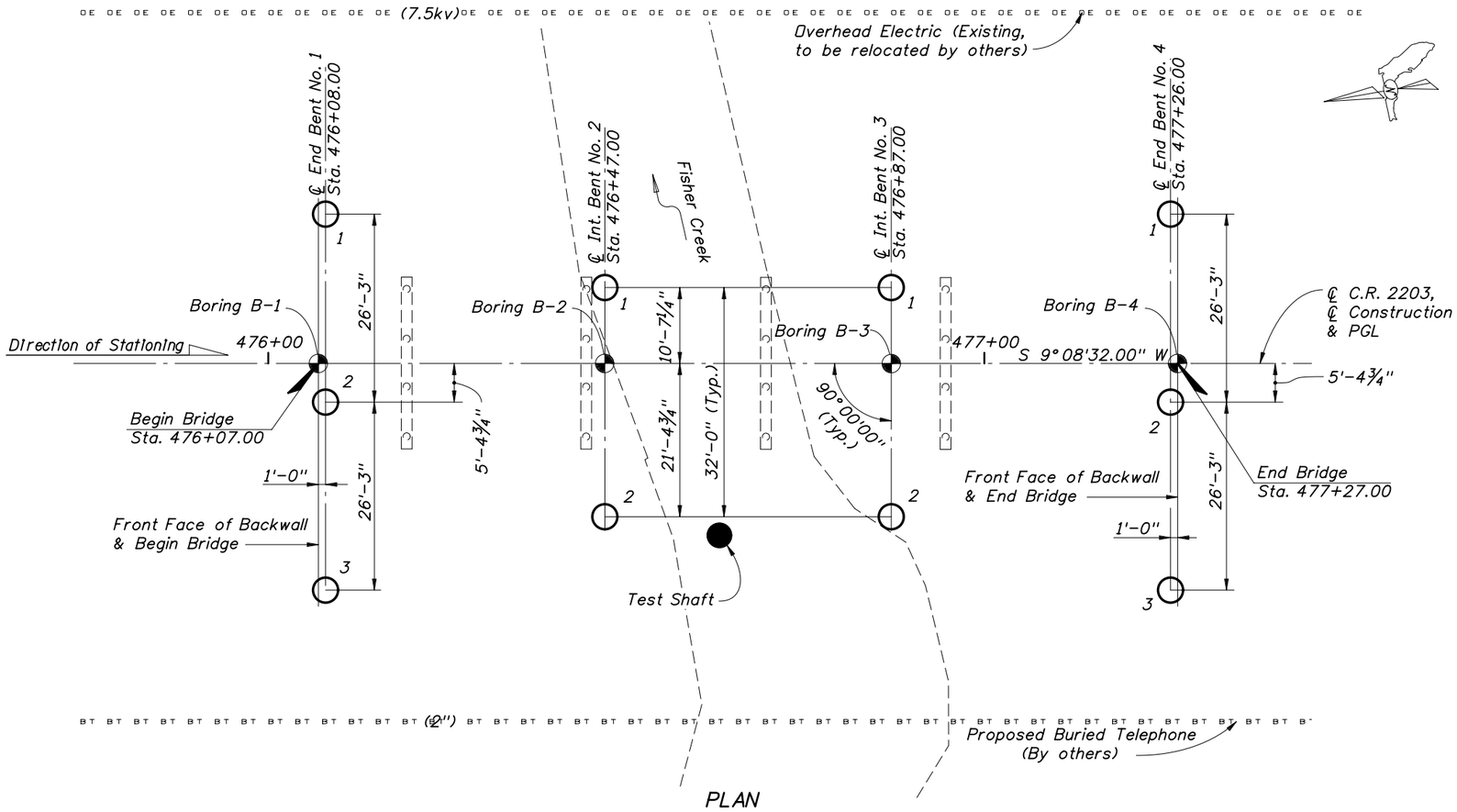

PLAN

LEGEND

- ● Denotes 48" Φ Test Shaft
- ○ Denotes 48" Φ Drilled Shaft and number
- ◦ Denotes 12" Φ Existing Timber Piles (to be removed)
- ◐ Denotes Soil Borings

DRILLED SHAFT DATA TABLE											
INSTALLATION CRITERIA						DESIGN CRITERIA					TESTING
Pier or Bent No.	Shaft Size (In.)	(1) Tip Elev. (Ft.)	(2) Min. Tip Elev. (Ft.)	Min. Rock Socket Length (Ft.)	(3) Min. Top of Rock Socket Elevation (Ft.)	Factored Design Load (tons)	Down Drag (tons)	Long term Scour Elev. (Ft.)	100-Year Scour Elev. (Ft.)	Φ	(4) Consider Nonredundant
1	48	-4.00	10.00	7.00	3.00	212	N/A	27.9	27.9	.55	No
2	48	-7.00	16.00	10.00	3.00	318	N/A	27.9	27.9	.45	Yes
3	48	-13.00	0.00	16.00	3.00	318	N/A	27.9	27.9	.45	Yes
4	48	-5.00	0.00	7.00	2.00	212	N/A	27.9	27.9	.55	No

(1) The Tip Elevation is the highest elevation the shaft tip shall be constructed unless load test data, rock core tests, or other geotechnical test data obtained during pilot holes allows the Engineer to authorize a different Tip Elevation.

(2) The Min. Tip Elevation is required for lateral stability.

(3) Rock encountered above the Min. Top of Rock Elevation is considered unsuitable for inclusion in the rock socket length. The Engineer may revise this elevation based on pilot holes, if performed.

(4) Inspect all shafts considered nonredundant using the SID or an approved alternate down-hole camera to verify shaft bottom cleanliness at the time of concreting. Test all nonredundant drilled shafts using cross-hole-sonic logging (CSL).

BRIDGE NO. XXXXXX

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

	NAMES	DATES
DRAWN BY	ABC	MO-YR
CHECKED BY	DEF	MO-YR
DESIGNED BY	GHI	MO-YR
CHECKED BY	JKL	MO-YR
APPROVED BY	MNO	

ENGINEER OF RECORD:
EOR Name, P.E.
Registration/P.E. No. 000000
Engineering Co. Name/Logo
Address
Certificate of Authorization No.

FLORIDA DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
XXX	XXXX	123456-1-52-12

SHEET TITLE: FOUNDATION LAYOUT

PROJECT NAME: DETAILING MANUAL EXAMPLES

SHEET NO. EX-8

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