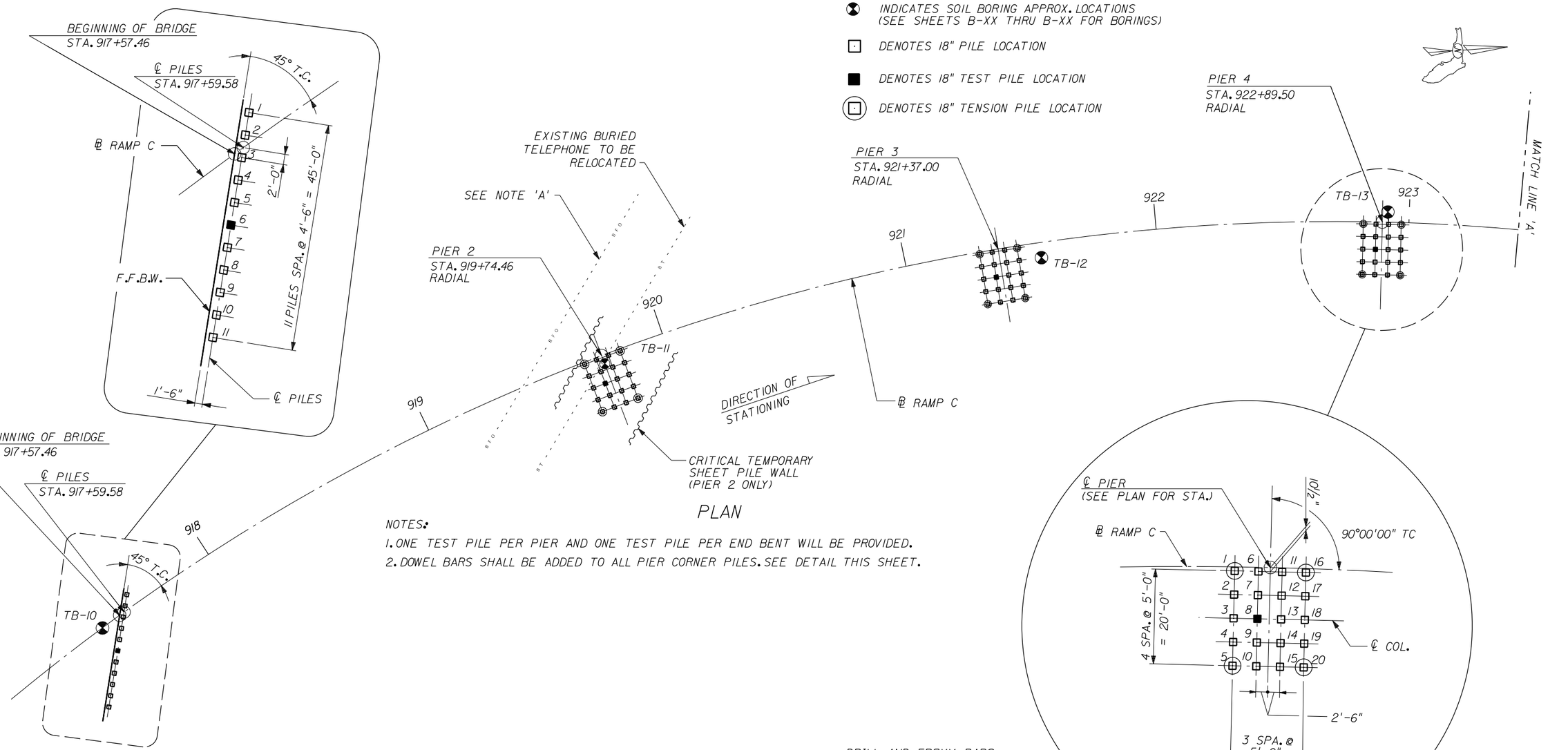
LEGEND:

- INDICATES SOIL BORING APPROX. LOCATIONS (SEE SHEETS B-XX THRU B-XX FOR BORINGS)
- DENOTES 18" PILE LOCATION
- DENOTES 18" TEST PILE LOCATION
- DENOTES 18" TENSION PILE LOCATION



PLAN

TYPICAL PILE LAYOUT FOR PIERS 2, 3 AND 4

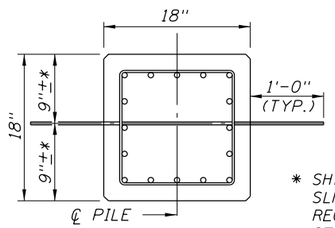
NOTES:

1. ONE TEST PILE PER PIER AND ONE TEST PILE PER END BENT WILL BE PROVIDED.
2. DOWEL BARS SHALL BE ADDED TO ALL PIER CORNER PILES. SEE DETAIL THIS SHEET.

NOTE 'A':

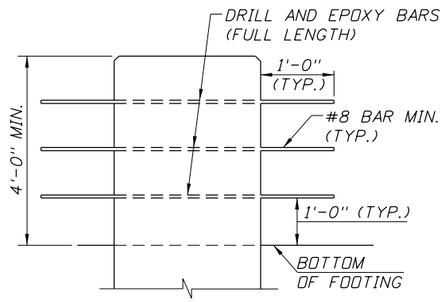
EXISTING AT&T FIBER OPTIC TO BE EXPOSED AND PROTECTED PRIOR TO PIER 2 FOOTING CONSTRUCTION, BY OTHERS.

CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER'S CONTRACTOR PRIOR TO DRIVING SHEET PILE.



DOWEL DETAIL PLAN
SEE NOTE 2

* SHIFT BAR SLIGHTLY AS REQUIRED TO CLEAR STRANDS LOCATED AT CENTERLINE OF THE PILE FACE.



DOWEL DETAIL ELEVATION
SEE NOTE 2

BRIDGE NO. XXXXXX

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STRUCTURES DESIGN OFFICE
CENTRAL OFFICE
605 Suwannee Street, MS 33
Tallahassee, Florida 32399-0450

DRAWN BY:	XXX MM-YY
CHECKED BY:	XXX MM-YY
DESIGNED BY:	XXX MM-YY
CHECKED BY:	XXX MM-YY

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

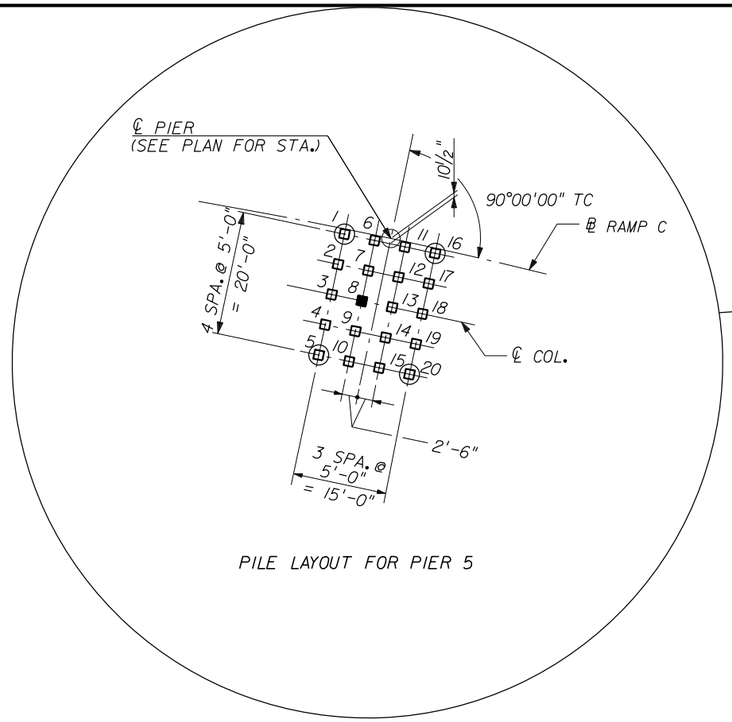
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET TITLE: FOUNDATION LAYOUT (SHEET 1 OF 2)

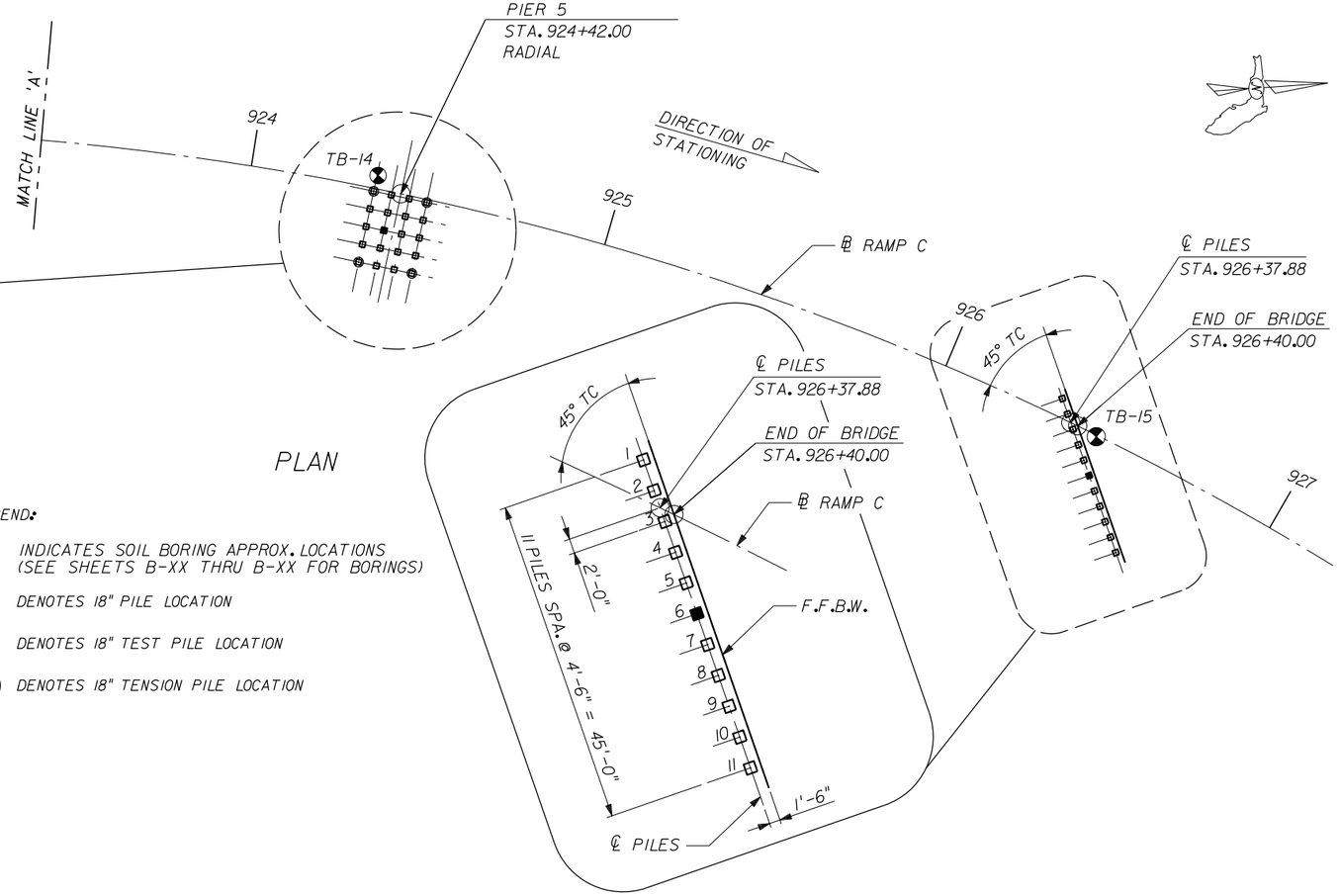
REF. DWG. NO.:

PROJECT NAME: FOUNDATION LAYOUT EXAMPLE 1
PILE FOUNDATION

SHEET NO.:



PILE LAYOUT FOR PIER 5



PLAN

LEGEND:

- INDICATES SOIL BORING APPROX. LOCATIONS (SEE SHEETS B-XX THRU B-XX FOR BORINGS)
- DENOTES 18" PILE LOCATION
- DENOTES 18" TEST PILE LOCATION
- DENOTES 18" TENSION PILE LOCATION

NOTES:

1. ALL PILES ARE 18 IN SQ. PRESTRESSED CONCRETE PILES AND SHALL BE DRIVEN PLUMB. SEE INDEXES 20600 & 20601 & 20618 FOR PILE NOTES AND DETAILS.
2. TEST PILES SHALL BE DRIVEN IN THE POSITION OF PERMANENT PLUMB PILES AT THE LOCATIONS INDICATED OR AS DIRECTED BY THE ENGINEER.

END BENT PILE CUTOFF ELEVATIONS		
PILE NO.	END BENT NO. 1	END BENT NO. 6
1	151.8	167.6
2	151.4	167.2
3	151.0	166.9
4	150.6	166.5
5	150.2	166.2
6	149.8	165.8
7	149.4	165.5
8	149.0	165.2
9	148.6	164.8
10	148.2	164.5
11	147.8	164.1

PIER PILE CUTOFF ELEVATIONS				
PILE NO.	PIER NO. 2	PIER NO. 3	PIER NO. 4	PIER NO. 5
1 THRU. 20	125.0	120.0	120.0	140.0

PILE DATA TABLE													
INSTALLATION CRITERIA								DESIGN CRITERIA					
PIER OR BENT	PILE SIZE (IN)	NOMINAL BEARING RESISTANCE (TONS)	TENSION RESISTANCE (TONS)	MIN. TIP ELEV. (FT)	TEST PILE LENGTH (FT)	REQUIRED JET ELEVATION (FT)	REQUIRED PREFORMED ELEVATION (FT)	FACTORED DESIGN LOAD (TONS)	DOWN DRAG (TONS)	TOTAL SCOUR RESISTANCE (TONS)	NET SCOUR RESISTANCE (TONS)	100 YEAR SCOUR ELEVATION (TONS)	LONG TERM SCOUR ELEVATION (TONS)	Ø
1	18	169	N/A	106	120	N/A	120	93	17	N/A	N/A	N/A	N/A	0.75
2	18	245	24*	97	115	N/A	112	159	N/A	N/A	N/A	N/A	N/A	0.75
3	18	245	24*	111	105	N/A	126	159	N/A	N/A	N/A	N/A	N/A	0.75
4	18	245	24*	112	100	N/A	127	159	N/A	N/A	N/A	N/A	N/A	0.75
5	18	245	24*	117	120	N/A	132	159	N/A	N/A	N/A	N/A	N/A	0.75
6	18	251	N/A	113	120	N/A	128	87	76	N/A	N/A	N/A	N/A	0.75

* DOWEL BARS SHALL BE ADDED TO PILES NOS. 1, 5, 16 & 20 AT ALL PIER LOCATIONS. SEE DETAILS SHEET 1 OF 2. COST OF DOWELS TO BE INCLUDED IN COST OF PRESTRESSED CONCRETE PILES.

BRIDGE NO. XXXXXX

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STRUCTURES DESIGN OFFICE
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605 Suwannee Street, MS 33
Tallahassee, Florida 32399-0450

DRAWN BY, XXX MM-YY
CHECKED BY, XXX MM-YY
DESIGNED BY, XXX MM-YY
CHECKED BY, XXX MM-YY

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET TITLE: FOUNDATION LAYOUT (SHEET 2 OF 2)

REF. DWG. NO.:

PROJECT NAME: FOUNDATION LAYOUT EXAMPLE 1
PILE FOUNDATION

SHEET NO.: