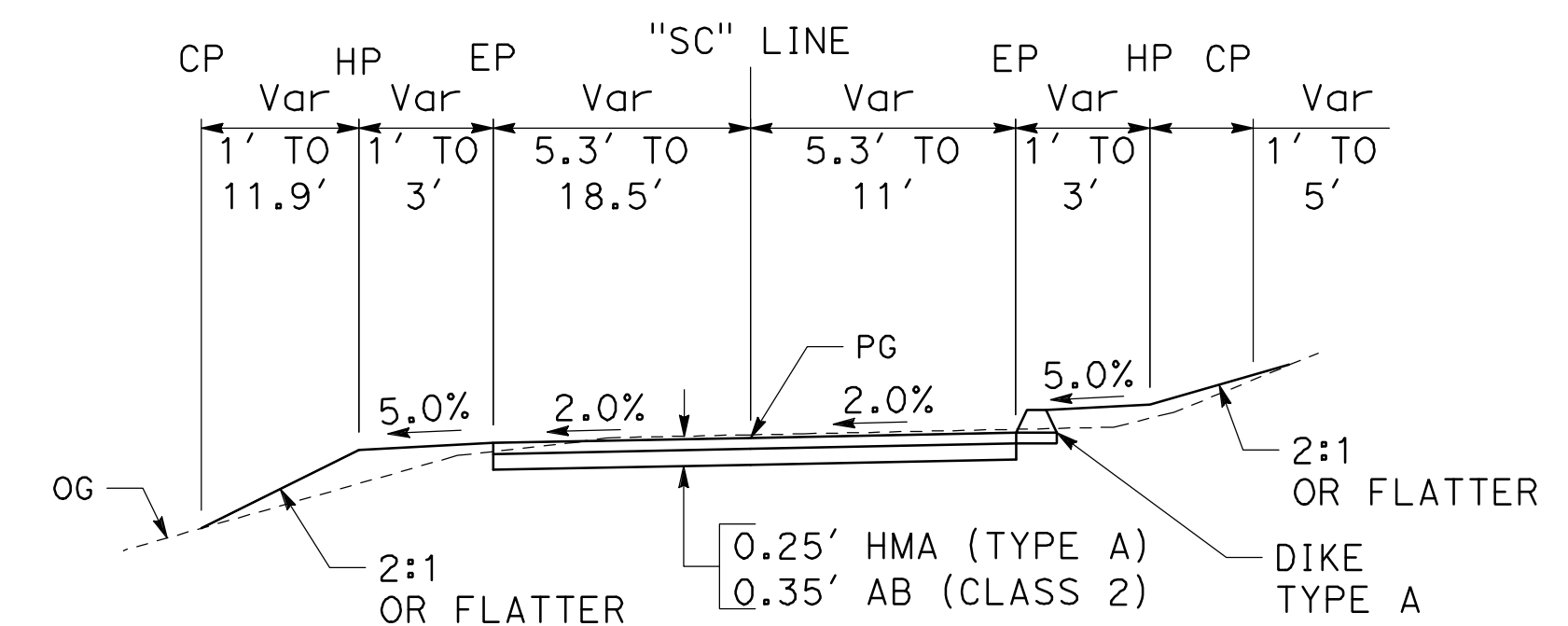


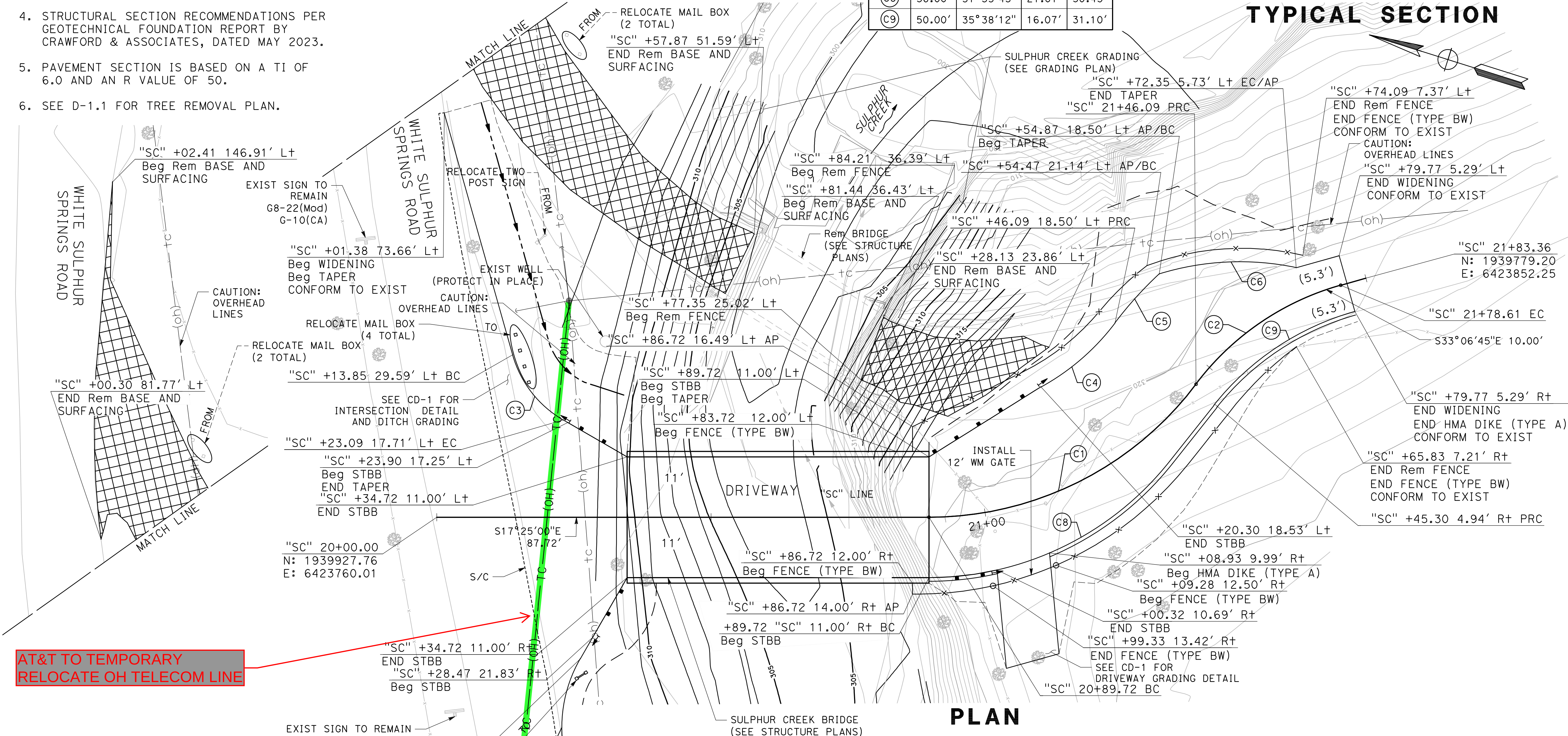
1. FOR ALL UNREFERENCED DETAILS, SEE CALTRANS STANDARD PLANS UNLESS OTHERWISE NOTED.
2. SEE CONSTRUCTION DETAILS FOR DRIVEWAY AND WHITE SULPHUR SPRINGS ROAD INTERSECTION GRADING SULPHUR CREEK ROAD GRADING.
3. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
4. STRUCTURAL SECTION RECOMMENDATIONS PER GEOTECHNICAL FOUNDATION REPORT BY CRAWFORD & ASSOCIATES, DATED MAY 2023.
5. PAVEMENT SECTION IS BASED ON A TI OF 6.0 AND AN R VALUE OF 50.
6. SEE D-1.1 FOR TREE REMOVAL PLAN.

— — — — F — — — F — — —	LIMIT OF FILL
— — — — C — — — C — — —	LIMIT OF CUT
— — — — t _c — — — (oh) — — —	EXIST OH TELECOM (AT&T)
AD	Rem BASE AND SURFACING
	TYPE P MARKER
	EXIST TREE

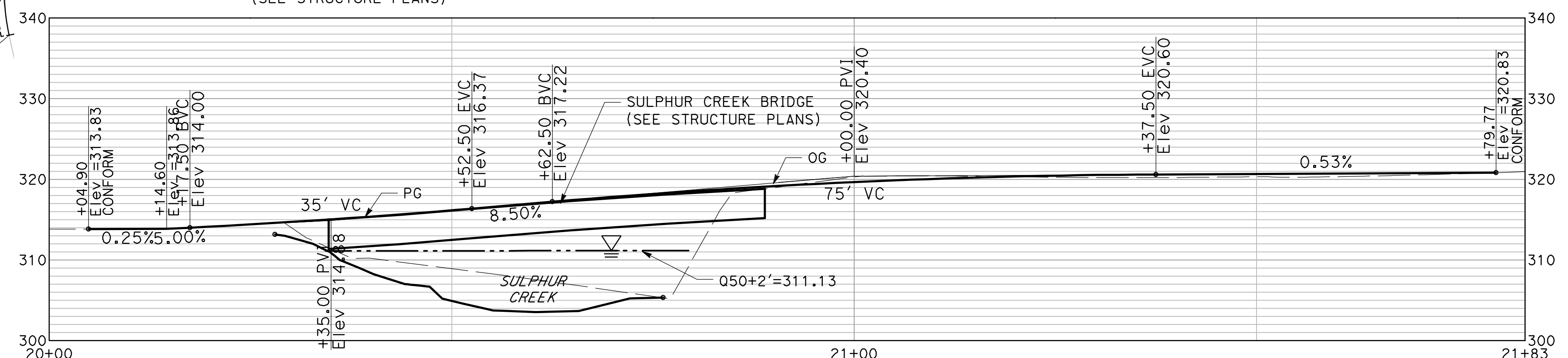
CURVE TABLE				
No. X	R	Δ	T	L
(C1)	61.00'	52°57'03"	30.38'	56.37'
(C2)	50.00'	37°15'19"	16.85'	32.51'
(C3)	20.00'	44°12'23"	8.12'	15.43'
(C4)	42.50'	24°13'49"	9.12'	17.97'
(C5)	68.50'	10°03'35"	6.03'	12.03'
(C6)	50.00'	28°57'18"	12.91'	25.27'
(C7)	25.00'	42°27'38"	9.71'	18.53'
(C8)	56.00'	51°35'43"	27.07'	50.43'
(C9)	50.00'	35°38'12"	16.07'	31.10'



TYPICAL SECTION



PLAN



DRIVEWAY PROFILE

"SC" LINE
SCALE: HORIZ 1"=10'
VERT 1"=10'



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(415) 454-8868 Phone
info@wra-ca.com


**MARK
THOMAS**

SULPHUR CREEK FISH PASSAGE RESTORATION PROJECT

**ST HELENA, CALIFORNIA
DESIGNED FOR:**



04/07/23	65% DESIGN PLANS
10/13/23	90% DESIGN PLANS
07/31/24	100% DESIGN PLANS

DATE	ISSUES AND REVISIONS	NO.
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PROJECT #30144
DRAWN BY: ZB
CHECKED BY: JW
ORIGINAL DRAWING SIZE: 24 X 36

ROADWAY AND BRIDGE LAYOUT AND PROFILE

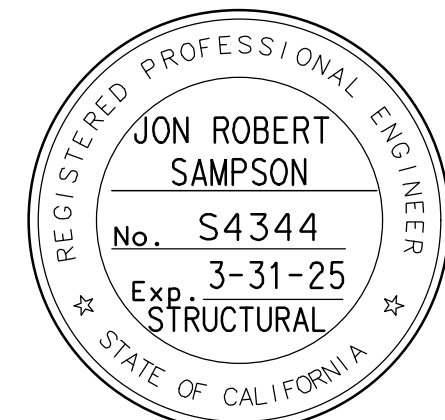
SHEET

PP-1

SCALE: 1"=10'

SULPHUR CREEK FISH PASSAGE RESTORATION PROJECT

ST HELENA, CALIFORNIA
DESIGNED FOR:



04/07/2023 65% DESIGN
10/13/2023 90% DESIGN
07/31/2024 100% DESIGN

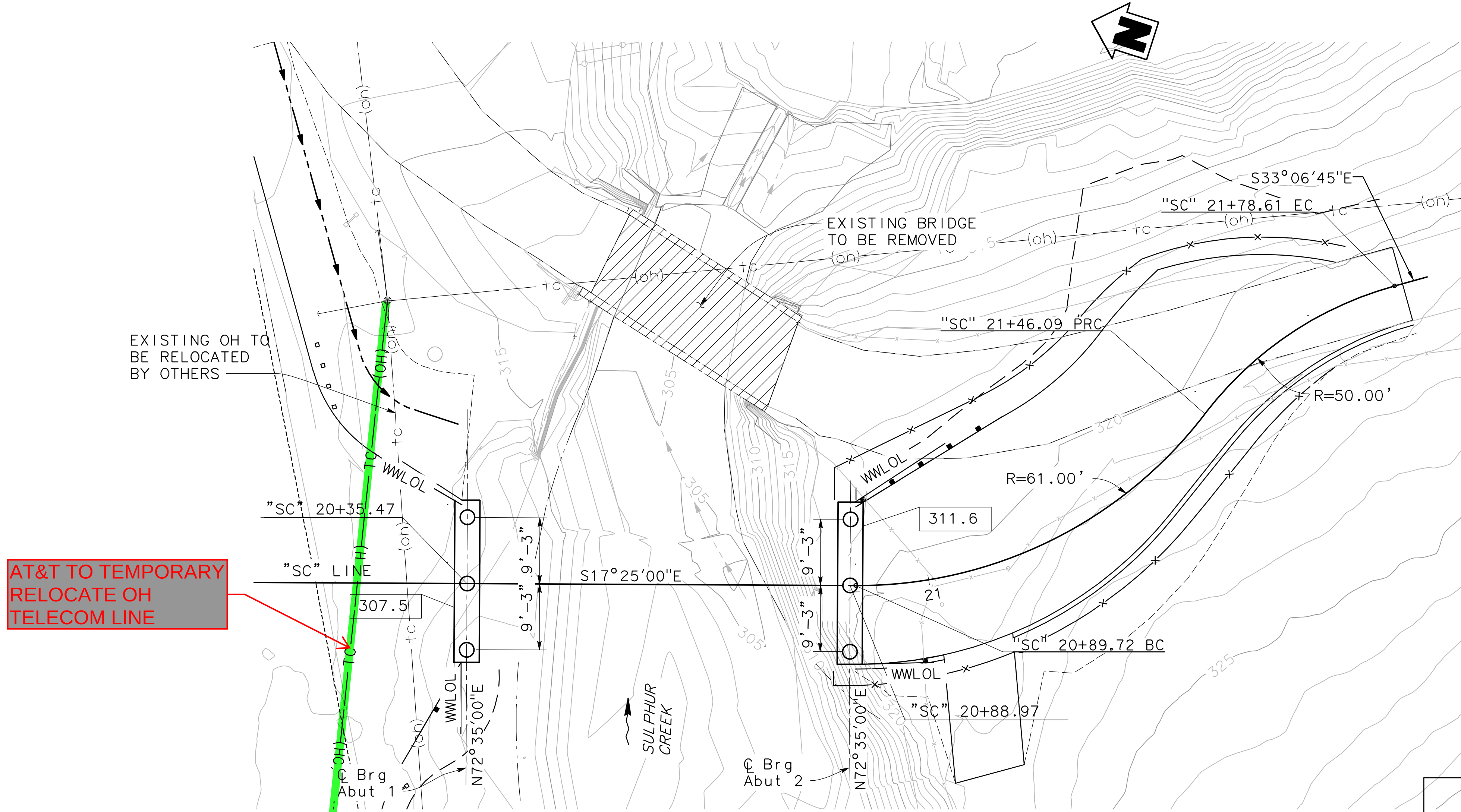
DATE ISSUES AND REVISIONS NO.

PROJECT #30144
DRAWN BY: JD
CHECKED BY: JS
ORIGINAL DRAWING SIZE: 24 X 36

FOUNDATION PLAN

SHEET

B-3



PLAN
1" = 10'

CURVE DATA

R=61.00' R=50.00'
Δ=52°57'03" Δ=37°15'19"
T=30.38' T=16.85'
L=56.37' L=32.51'

LEGEND:

- Indicates Existing Bridge
- Indicates Bridge Removal
- Indicates Bottom of Footing Elevation (feet)
- Indicates 30" CIDH Pile

SCOUR DATA TABLE

Location	Long Term (Degradation and Contraction) Scour Elevation (ft)	Short Term (Local) Scour Depth (ft)
Abut 1	302.4	N/A
Abut 2	302.4	N/A

Hydrologic summary for Sulphur Creek Bridge

Frequency	Design Flood	Base Flood	Flood of Record
	50-year	100-year	N/A
Discharge	1260 cfs	1480 cfs	N/A
Water Surface Elevation at Bridge	309.2 ft	309.9 ft	N/A

NOTE: HYDRAULIC INFORMATION PROVIDED FROM HYDRAULIC MEMO.

BENCHMARK

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
53	1939977	6423854	312.45	CP 90D SHLDR/FNC
54	1939846	6423820	318.361	CP 90D EP/BRIDGE 54
55	1940014	6423796	311.988	SR SRHW TF 24IN UNDER 61NHW
1000	1939897	6423814	316.616	SVCP 60D
1001	1939904	6423859	313.642	SVCP 60D

VERTICAL DATUM BASED ON NAVD '88

HORIZONTAL DATUM BASED ON NAD '83

PER TRIMBLE GPS OBSERVATIONS USING OPUS SOLUTION

PILE DATA TABLE

Location	Pile Type	Nominal Resistance (kips)		Design Tip Elevations (ft)	Specified Tip Elevations (ft)
		Compression	Tension		
Abut 1	30" CIDH	230	N/A	270 (a-l) 282 (b)	270
Abut 2	30" CIDH	230	N/A	276 (a-l) 286 (b)	276

NOTES:

- Design tip elevations are controlled by: (a-l) Compression and (Strength Limit) and (b) Lateral Load, respectively.
- The Specified Tip Elevation shall not be raised above design tip elevation.