



PROPOSED
PROJECT AREA

COLORADO RIVER INDIAN TRIBES

PROJECT PLANS

CALIFORNIA PUBLIC UTILITY COMMISSION
CONSTRUCTION PHASE III
FTTP STAKING SHEETS - PARKER DAM



SHEET INDEX

CPUC Phase III Cover.....	CPUC-A.III
General Notes.....	CPUC-C
Construction Details.....	CPUC-D1, CPUC-D2
CPUC Phase III Key Map.....	CPUC-E.III
PON 3 Key Map.....	P3-E
PON 3 Staking Sheets.....	P3-1 to P3-2
PON 4 Key Map.....	P4-E
PON 4 Staking Sheets.....	P4-1
PON 5 Key Map.....	P5-E
PON 5 Staking Sheets.....	P5-1 to P5-2
PON 6 Key Map.....	P6-E
PON 6 Staking Sheets.....	P6-1

SHEET #



VICINITY MAP
N.T.S.



C			
B			
A	POLE SURVEY UPDATES	1	04.30.2026
NO	REVISION	NO	DATE
PROJECT NO. 25.03.01			
COLORADO RIVER INDIAN TRIBES CALIFORNIA PUBLIC UTILITY COMMISSION EQUITY & ACCESS GRANT DESIGN PLANS			
	DESIGNED	AE	6/11/2026
	DRAWN	RS/JB	6/11/2026
	CHECKED	TK/SP	6/11/2026
	 8655 E. VIA DE VENTURA SUITE E-140 SCOTTSDALE, AZ 85258 602-550-4295 admin@ackermancg.com		
CPUC PHASE III - COVER SHEET			CPUC-A.III

GENERAL NOTES

- 1. The contractor shall adhere to all the latest Rural Utility Services (RUS) Construction Specifications.
- 2. These plans show the general alignment and location of fiber and equipment in relation with major physical features. The location of utility poles, fire hydrants, irrigation devices, vegetation and other stationary objects along the fiber path may not be shown, but shall be identified by the contractor prior to installing cable.
- 3. At locations where below ground features are installed, the contractor shall locate all utilities and subsurface infrastructure prior to installation. The contractor shall contact CA811, at least 5 days prior to construction. Where only the horizontal location of an existing utility is shown, the location is approximate. Where both the horizontal and vertical location of an existing utility is shown, the location has been verified by field survey methods. The contractor shall comply with all current CA811 laws. The contractor shall be responsible for repairing or replacing damaged items and all associated costs as a result of his failure to exactly locate and protect any underground or aboveground utility. No additional compensation shall be made to the contractor for expenses incurred to remedy damaged infrastructure.
- 4. The Contractor shall secure a Right-of-Way Permit prior to start of any construction operations within right-of-way. The permit application must be submitted at least seven (7) working days before work is scheduled to begin.
- 5. The permittee shall notify the property owner or resident of adjoining occupied property at least two (2) working days prior to disruption of access to the property, and at no time deny access to the property longer than one (1) normal working day, and shall provide plank for crossings, if necessary.
- 6. The permittee shall maintain all existing traffic control signs within the construction area, and shall reset all signs in their original locations as soon as construction operations will permit. The permittee shall place and maintain traffic warning signs during the course of work, as required by the Engineer.
- 7. Only rubber-tired equipment shall be used on pavement except that crawler equipment using street pads may be used.
- 8. During the course of work, the permittee shall maintain the work area in a clean and orderly condition. Excess excavation, debris, etc., shall not be permitted to accumulate on the road surface or shoulders. Work shall progress in such a manner that no condition such as soft trenches, drop-offs from the edge of pavement, etc., shall exist. Upon completion of installation, the permittee shall clean the pavement surface, pull and dress shoulders, and otherwise put in order the entire work area to the satisfaction of the Engineer. If said work is not completed in a manner acceptable to the Engineer, the utility doing the work shall be held responsible and further permits shall not be issued pending the completion of the work.

RIGHT-OF-WAY NOTES

- 1. Right-of-way and jurisdictional boundaries are based on parcel data as provided by CRIT GIS Department.
- 2. These drawings have been prepared based on information provided by others. The Engineer has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions that may be incorporated as a result of erroneous information provided by others.

UTILITY NOTES

- 1. At locations where underground features are to be installed, the Contractor shall expose and protect in place all utilities during construction and shall modify the running line of the proposed improvements to avoid these facilities once construction begins.
- 2. The existence and location of any underground and/or aboveground utility or structure depicted hereon are based upon the best available information at the time of the field survey and utility maps provided by the utility companies. The Engineer assumes no responsibility as to the accuracy of the depicted location of utilities on these drawings.
- 3. The subject plans are proprietary and have not been submitted for conflict review by other entities. The Contractor shall contact CA811 at least five days prior to any construction activity. It is the responsibility of the Contractor to contact all involved agencies and field-verify exact location of the utilities. If discrepancies exist, the contractor shall notify the Engineer and appropriate utility company immediately.
- 4. The Engineer shall not be responsible for coordinating the relocation of utilities, power poles, pedestals, hand holes etc. Coordination with utilities shall be done by Contractor.
- 5. Contractor shall maintain minimum 1 foot of vertical clearance and 2 feet of horizontal clearance face to face from all utility lines unless otherwise specified.

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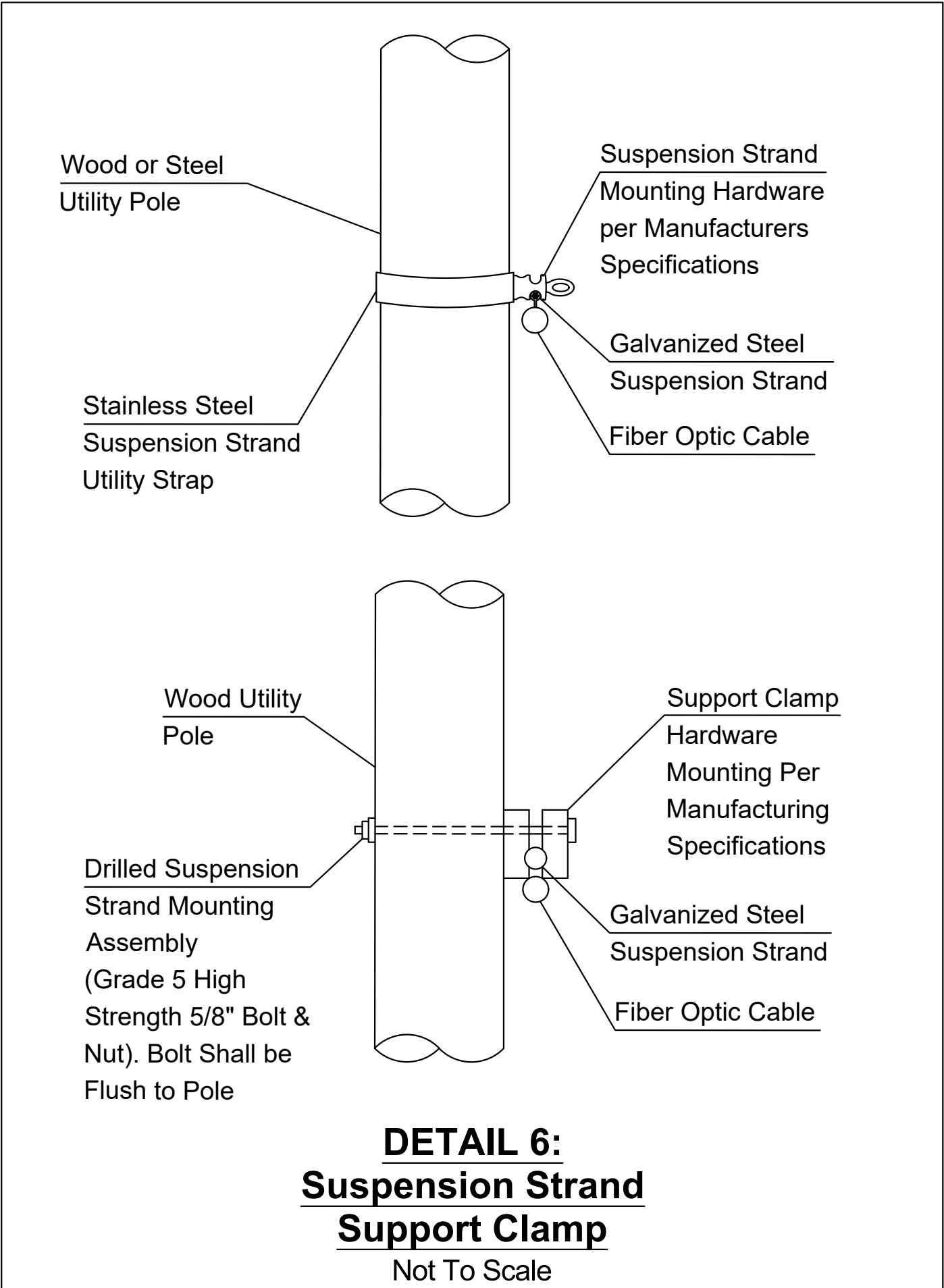
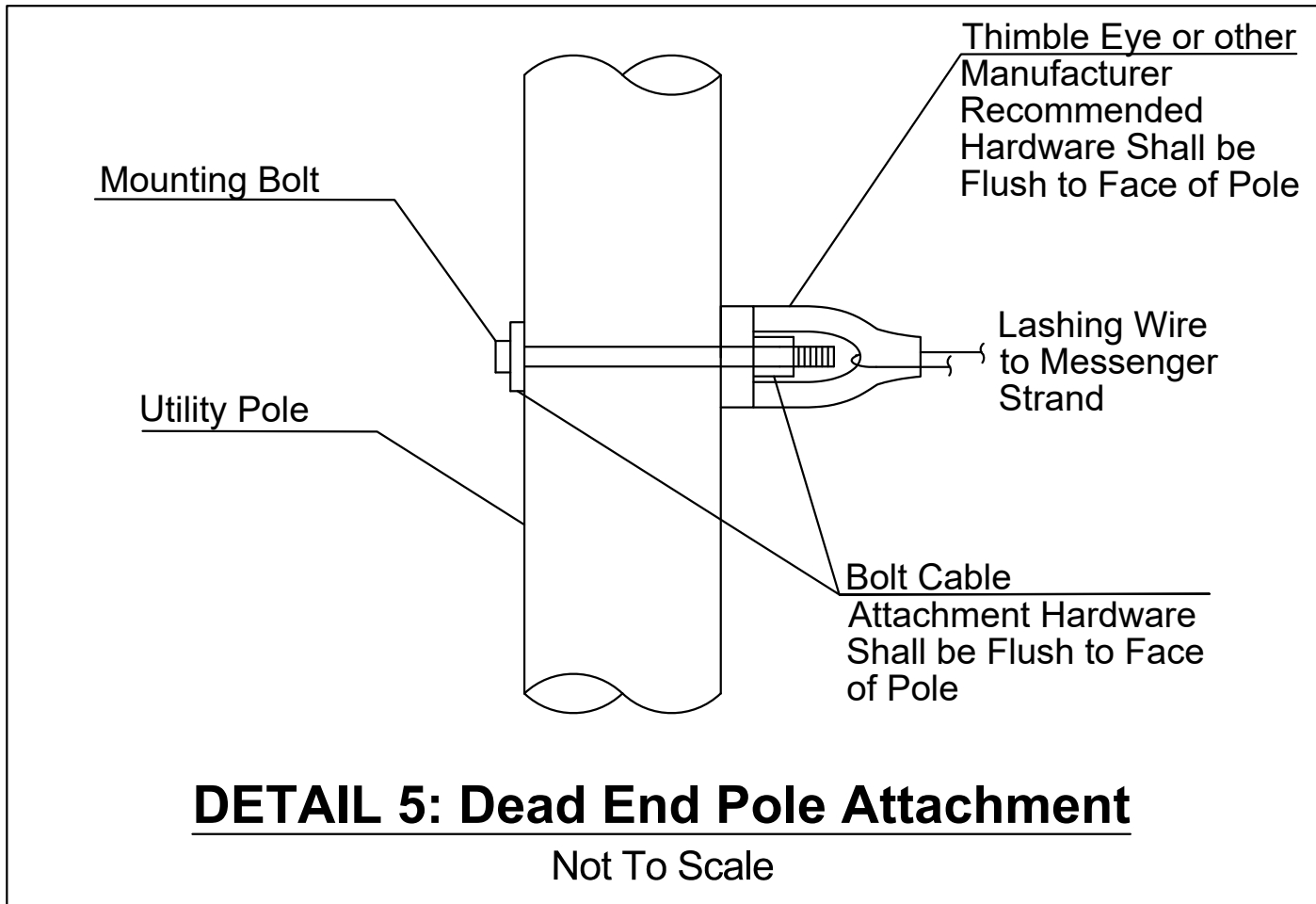
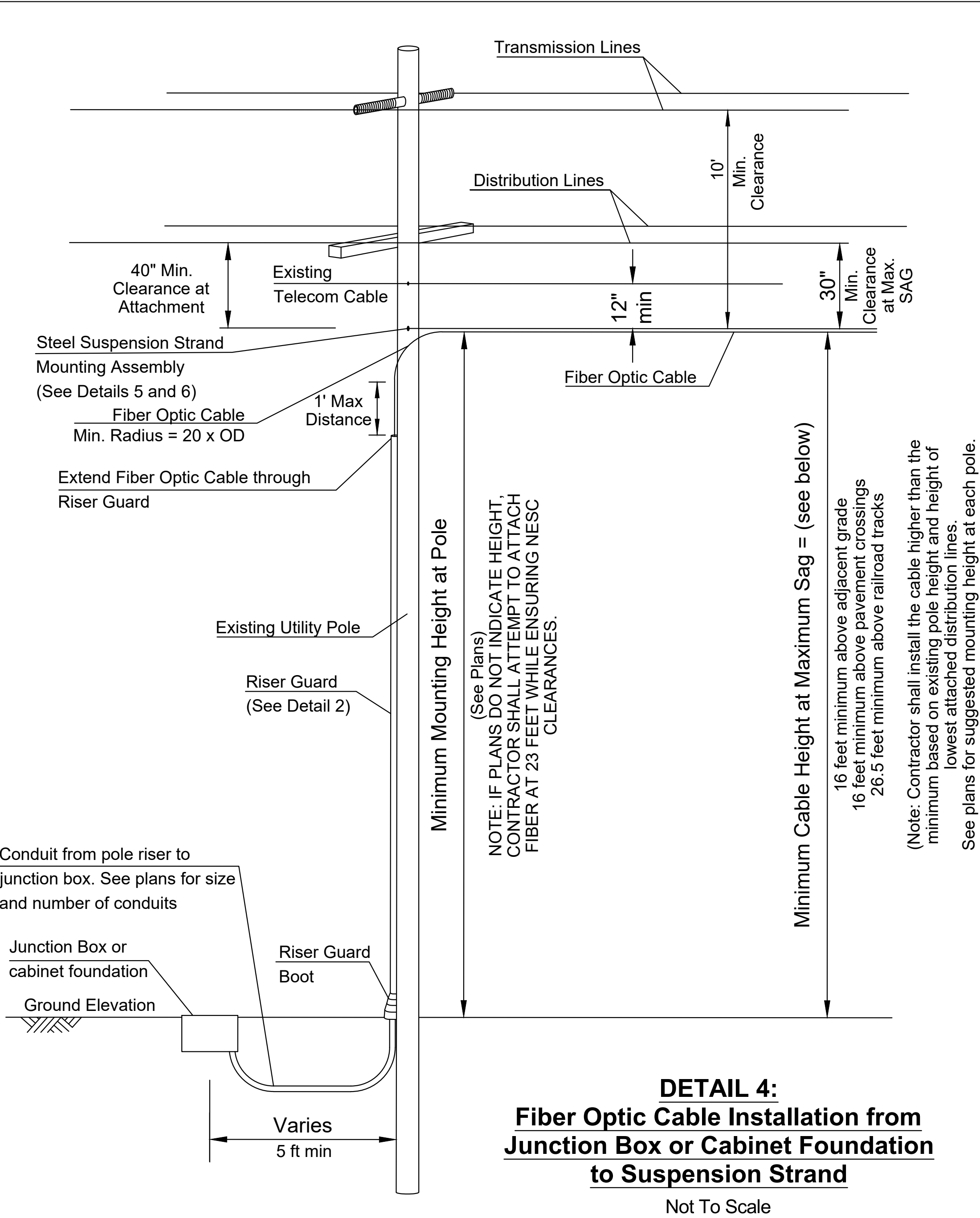
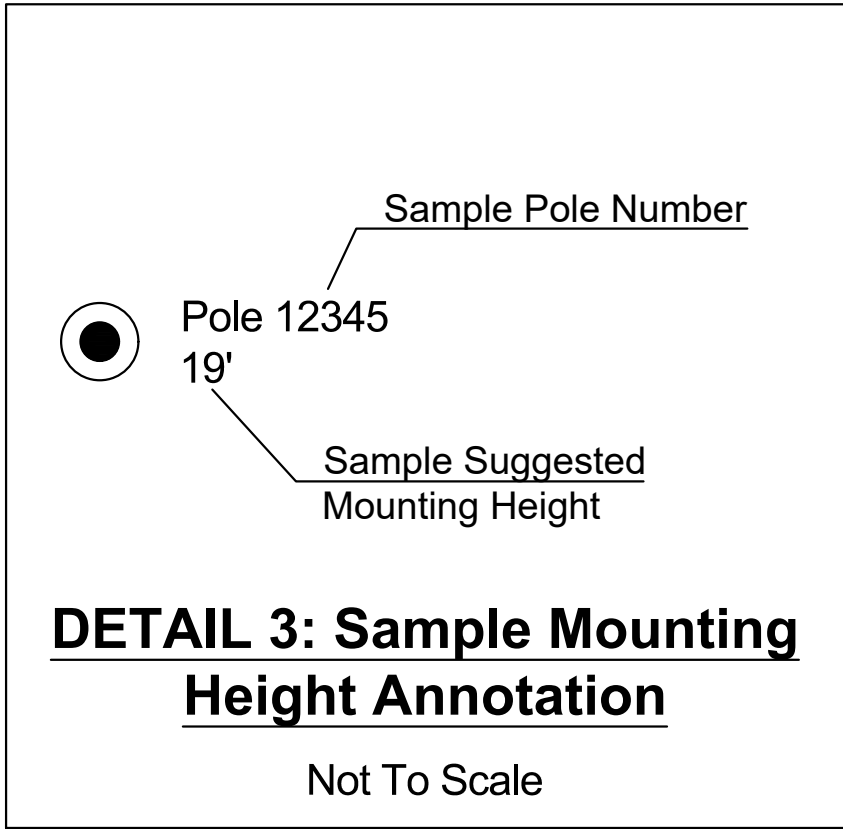
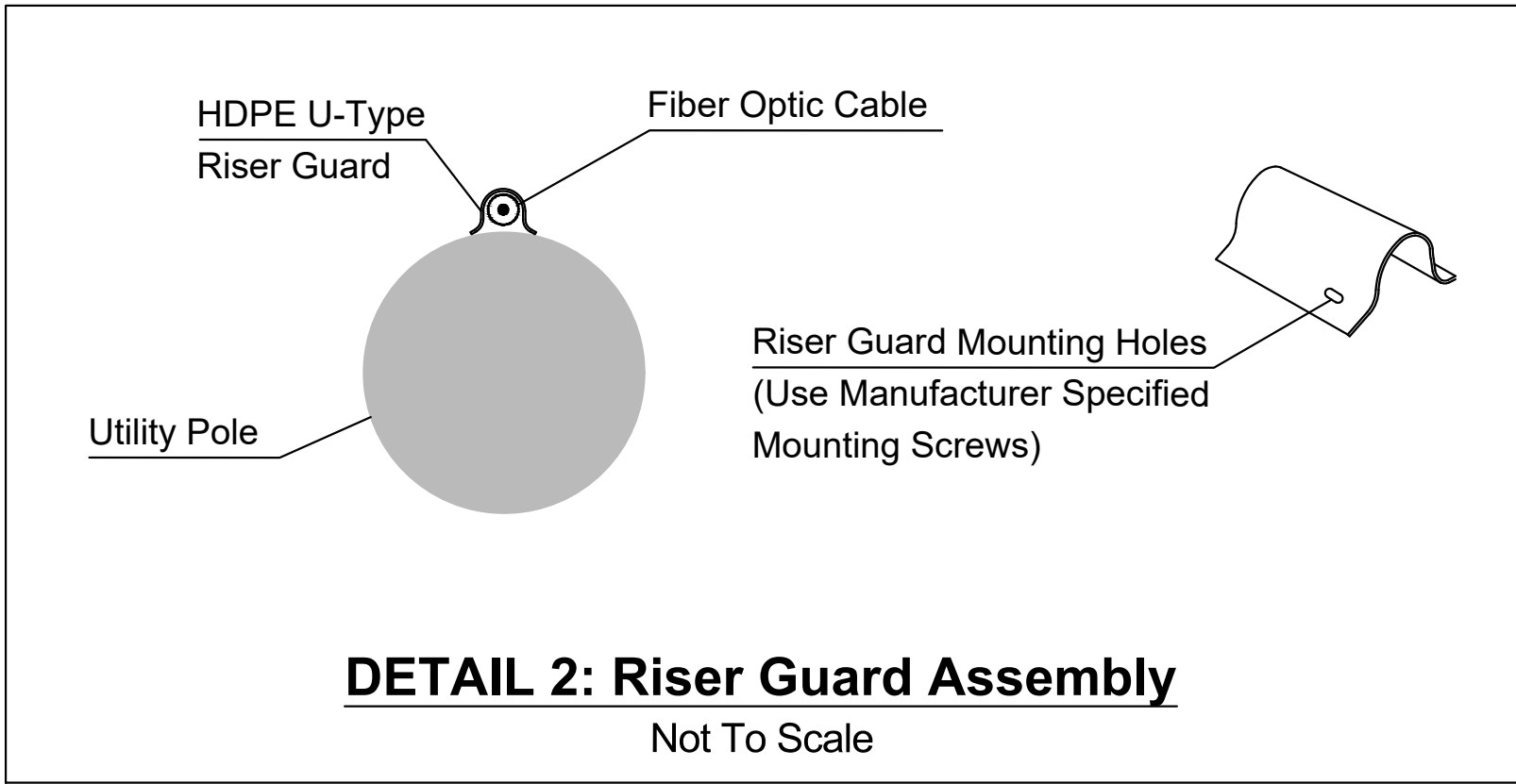
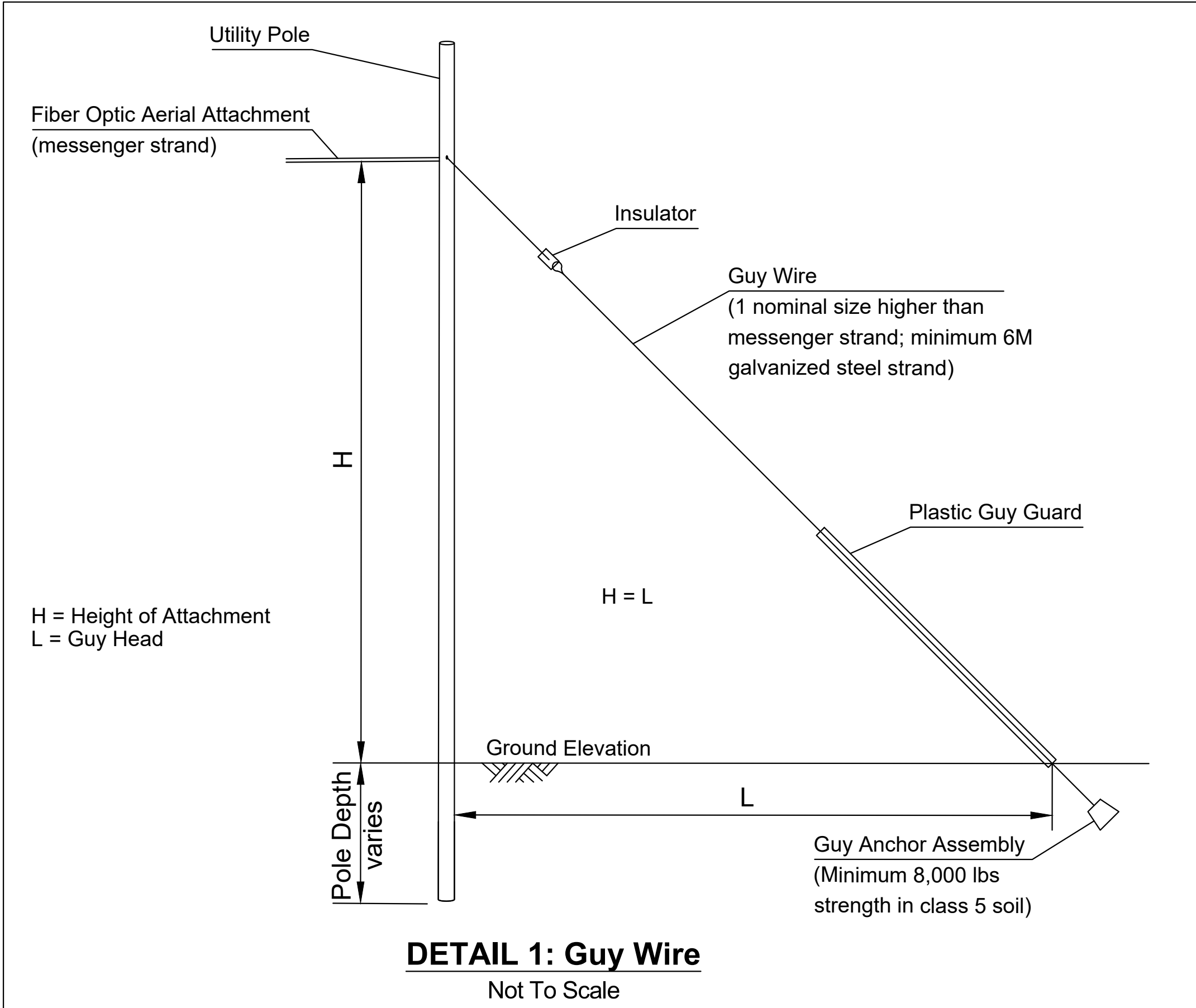
PROJECT NO. 25.03.01

COLORADO RIVER INDIAN TRIBES
CALIFORNIA PUBLIC UTILITY COMMISSION
EQUITY & ACCESS GRANT DESIGN PLANS

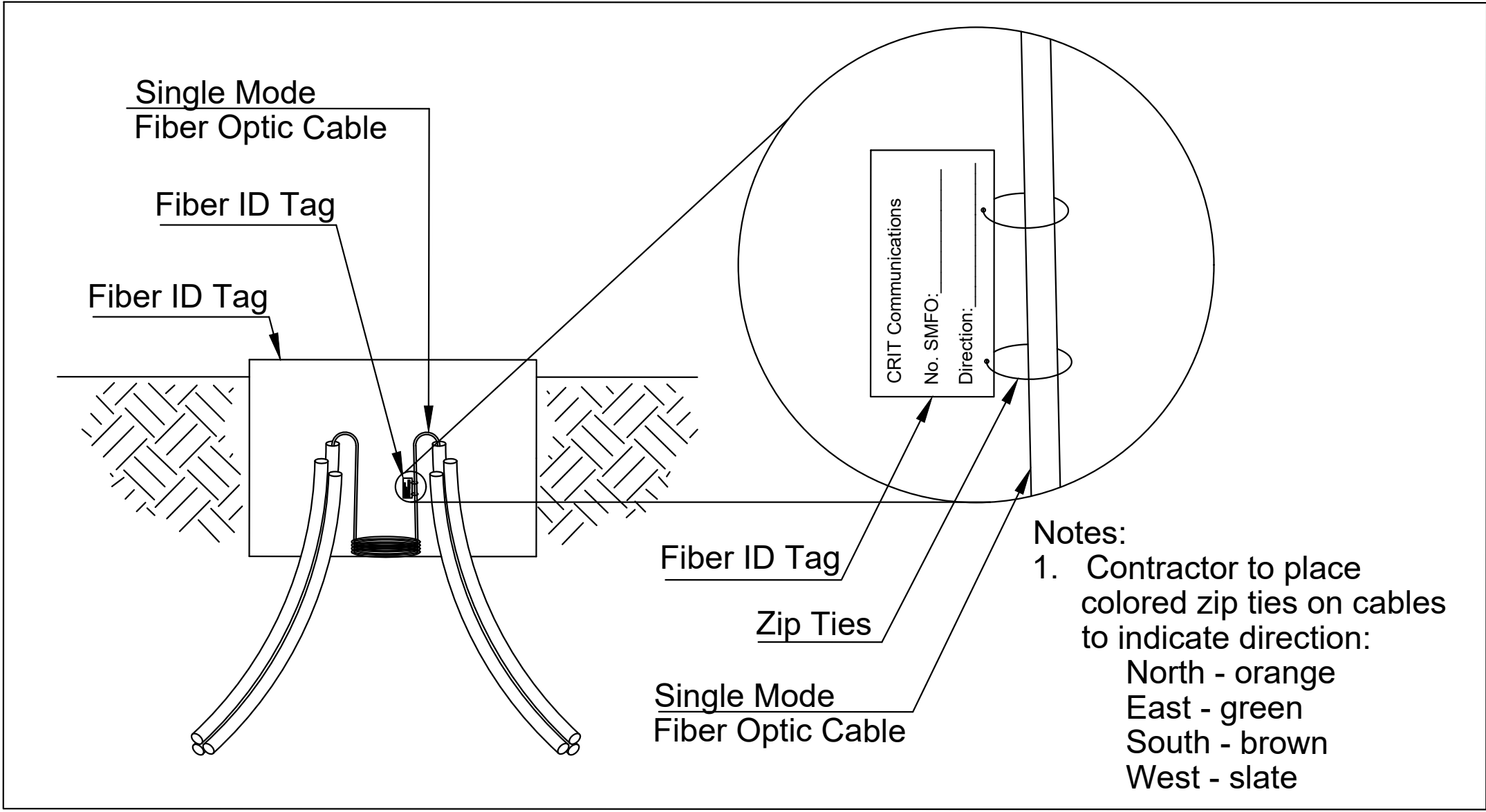
		BY	DATE
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8655 E. VIA DE VENTURA
SUITE E-140
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GENERAL NOTES	CPUC-C
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DETAILS			CPUC-D1

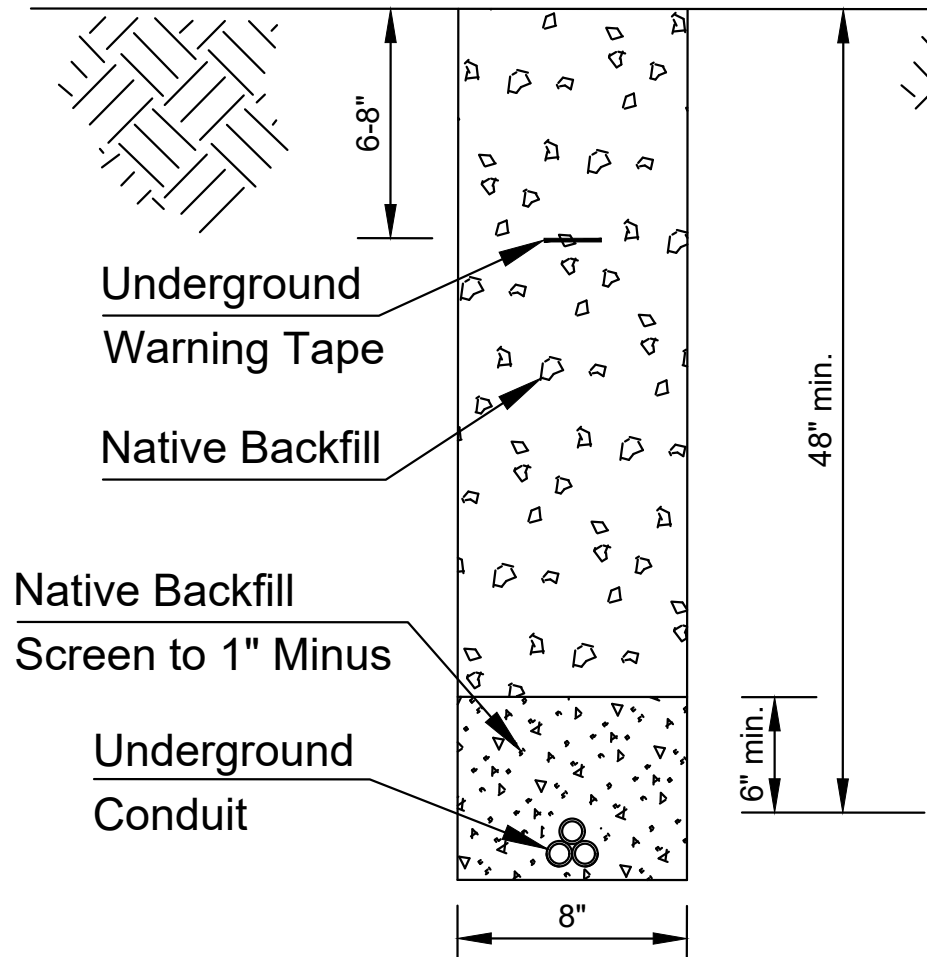


DETAIL 7: Typical Fiber ID Tag

Not To Scale

Boring Note:

All conduit installed under pavement, driveways, sidewalk, and roadside drainage features shall be directionally drilled and shall maintain 48" minimum clearance from top of multiduct to existing grade. Exact Location of bore pits shall be determined by the contractor during construction. All conduits to be installed by trenching shall follow the trenching detail on these plans.



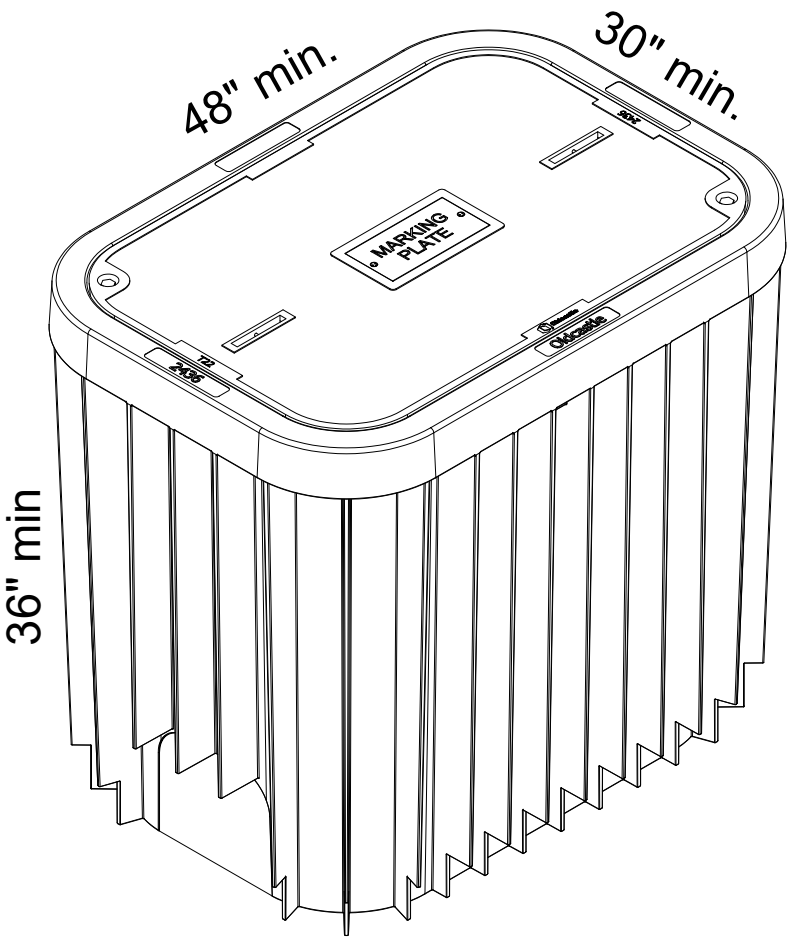
DETAIL 8: Trenching

Not To Scale

Installation Notes:

1. Unless otherwise approved by the engineer or shown on the plans, the size of hand holes shall be as shown below. Junction box and lid shall be at least tier 22 rated.

No.	Cable Count	handhole size
1	PON Cabinet Location	30"x48"x36" deep
2	288 with splice kit	30"x48"x24" deep
3	288 no splice kit (pass through only)	17"x30"24" deep
4	144 with splice kit	30"x48"x24" deep
5	144 no splice kit (pass through only)	17"x30"24" deep
6	96 with splice kit	30"x48"x24" deep
7	96 no splice kit (pass through only)	17"x30"24" deep
8	48 with splice block	BD5
9	48 no splice block (pass through only)	13"x24"x18" deep
10	24 with splice block	BD5
11	24 no splice block (pass through only)	13"x24"x18" deep
12	drops	13"x24"x18" deep



Notes:

1. Body meets or exceeds ANSI/SCTE 77 2013 - TIER 22 Traffic Loading.
2. All dimensions of sample junction box are minimum.

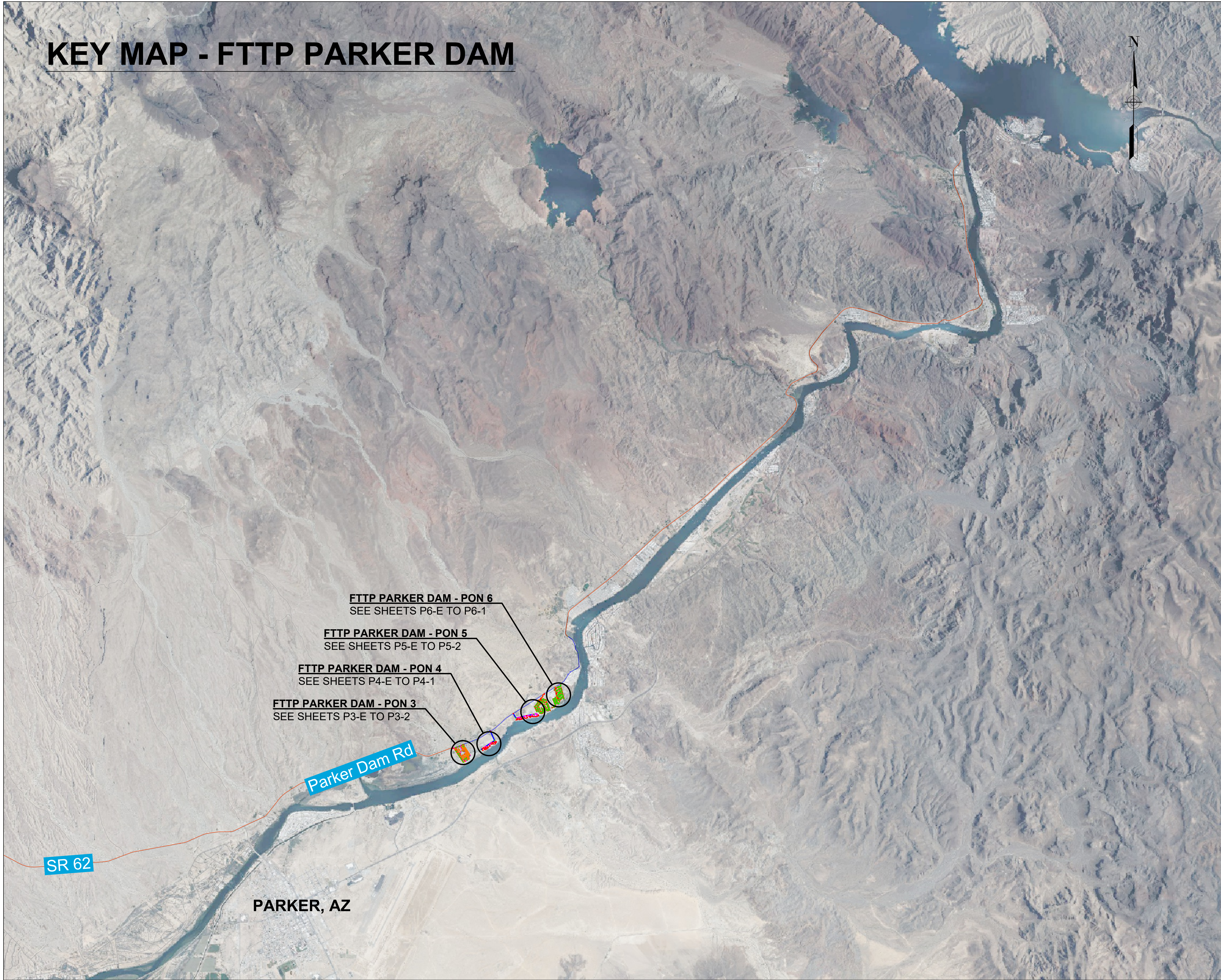
DETAIL 9: Sample Hand Hole

Not To Scale

2. Any impact to pavement, sidewalk, or landscaping shall be replaced in kind by Contractor. Contractor shall replace whole sidewalk panel disturbed by construction.

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DETAILS			CPUC-D2

KEY MAP - FTTP PARKER DAM



LEGEND

- 2HST 2 Port HST Cable
- 4HST 4 Port HST Cable
- 6HST 6 Port HST Cable
- BFO-1 Buried Fiber Optic Drop Cable (BFO1)
- BFO-2 Buried Fiber Optic Drop Cable (BFO2)
- BFO-12 Buried Fiber Optic Cable (BFO12)
- BFO-24 Buried Fiber Optic Cable (BFO24)
- BFO-48 Buried Fiber Optic Cable (BFO48)
- BFO-96 Buried Fiber Optic Cable (BFO96)
- BFO-144 Buried Fiber Optic Cable (BFO144)
- BFO-288 Buried Fiber Optic Cable (BFO288)
- CO-1 Aerial Fiber Optic Drop Cable (CO1)
- CO-2 Aerial Fiber Optic Drop Cable (CO2)
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- CO-144 Aerial Fiber Optic Cable (CO144)
- CO-288 Aerial Fiber Optic Cable (CO288)
- Utility Pole
- Down Guy & Anchor
- Pedestal (BD5)
- Buried Hand Hole (BHF)
- PON Cabinet/Pedestal
- Aerial Slack Loop
- Splice Case
- Grounding Unit
- Hardened Service Terminal (HST)

UTILITY CAUTION:

Limited utility information available. Existing utilities are assumed to be in close proximity. Contractor shall blue stake and protect existing utilities in place.



RIGHT-OF-WAY NOTE:

Right-of-way information downloaded from Riverside County, San Bernardino County, and CalTrans.

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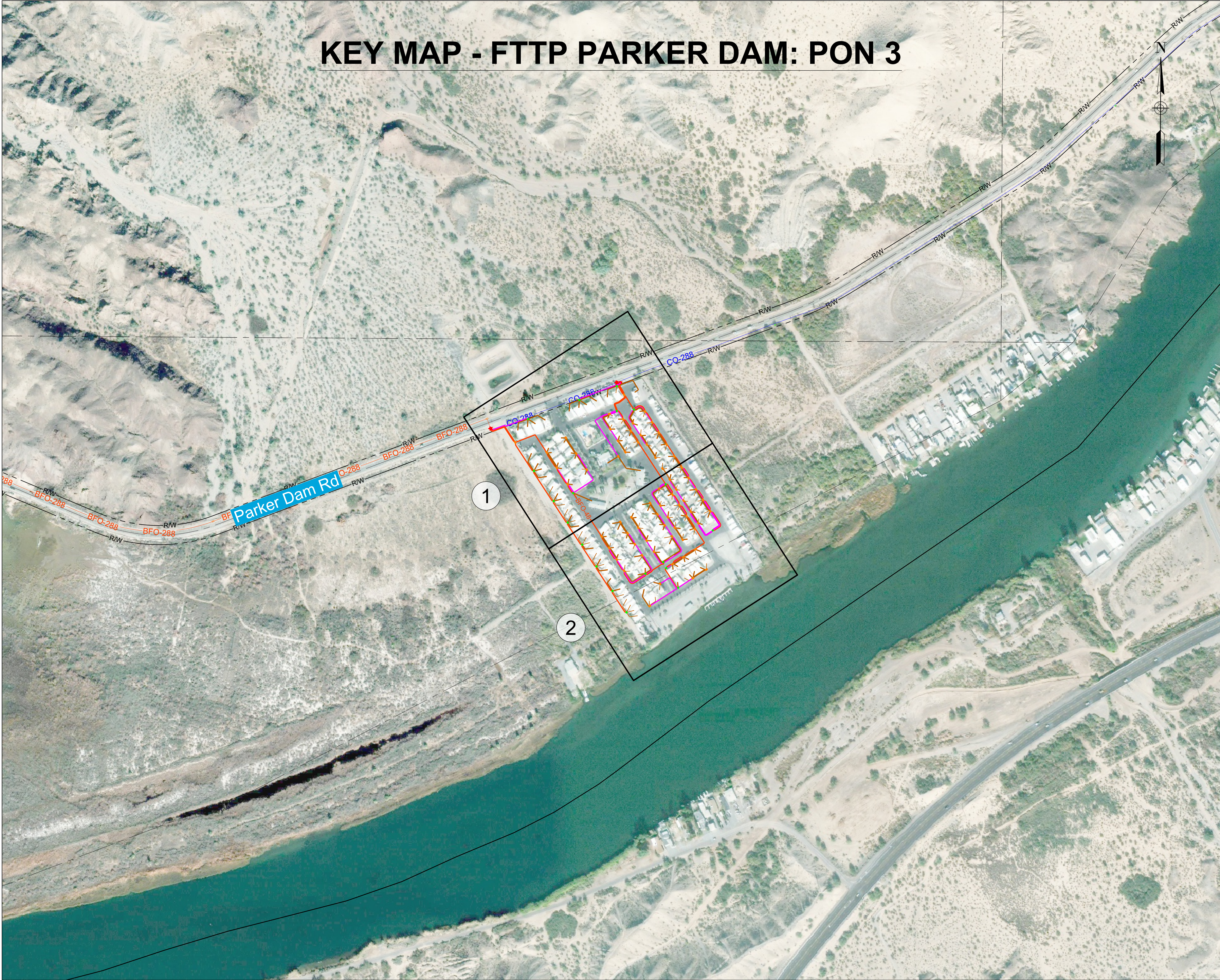
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KEY MAP - FTTP PARKER DAM

CPUC-E.III

KEY MAP - FTTP PARKER DAM: PON 3



LEGEND

- 2HST 2 Port HST Cable
- 4HST 4 Port HST Cable
- 6HST 6 Port HST Cable
- BFO-1 Buried Fiber Optic Drop Cable (BFO1)
- BFO-2 Buried Fiber Optic Drop Cable (BFO2)
- BFO-12 Buried Fiber Optic Cable (BFO12)
- BFO-24 Buried Fiber Optic Cable (BFO24)
- BFO-48 Buried Fiber Optic Cable (BFO48)
- BFO-96 Buried Fiber Optic Cable (BFO96)
- BFO-144 Buried Fiber Optic Cable (BFO144)
- BFO-288 Buried Fiber Optic Cable (BFO288)
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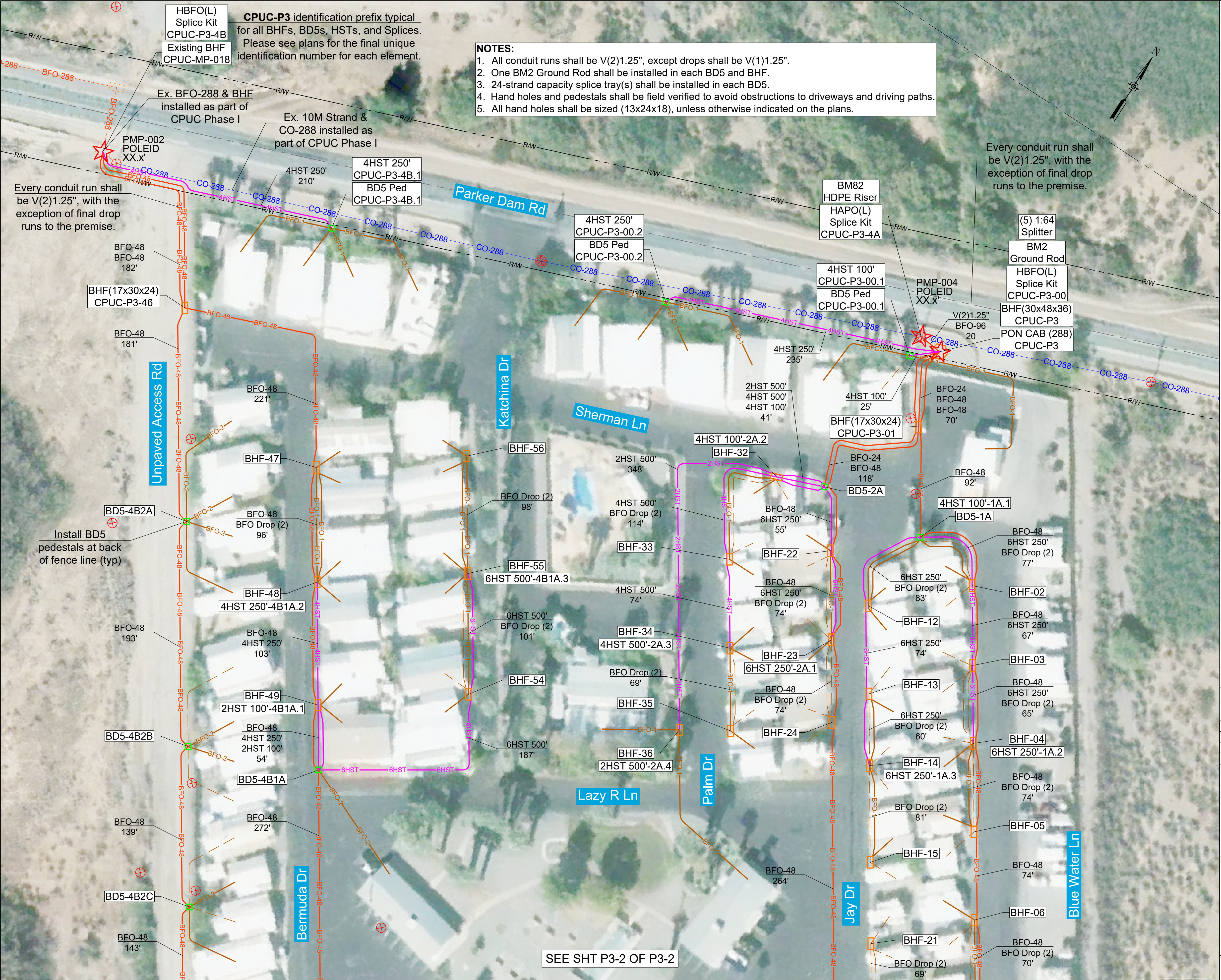
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KEY MAP - FTTP PARKER DAM PON 3

P3-E OF P3-2



LEGEND

- 2HST 2 Port HST Cable
- 4HST 4 Port HST Cable
- 6HST 6 Port HST Cable
- BFO-1 Buried Fiber Optic Drop Cable (BFO1)
- BFO-2 Buried Fiber Optic Drop Cable (BFO2)
- BFO-12 Buried Fiber Optic Cable (BFO12)
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UTILITY CAUTION:

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SCALE: Hor=1"=40'
FULL SIZE

40 0 40 80
SCALE IN FEET

California 811

RIGHT-OF-WAY NOTE:

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REGISTERED PROFESSIONAL ENGINEER
STEVEN A. GRAVANO
No. C75292 Exp. 12-31-2027
CIVIL
STATE OF CALIFORNIA
SIGNED: 06/11/2026

DESIGNED	BY	DATE
DRAWN	RS/JB	6/11/2026
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PD PON 3 STAKING SHEETS

P3-1 OF P3-2

HH NO.	BHF 30x48x36	BHF 17x30x24	BHF 13x24x18	BD5 PED	POLE	ADDED FIBER ITEM	288-PORT PON CABINET	1:64 SPLITTER	HAPO(L): AERIAL FOSC 450D	HBFO(L): BURIED FOSC 450D	HO1(24): BD5 SPLICE TRAY(S)	BM2	V(2)1.25"	BFO-96	BFO-48	BFO-24	BM82 HDPE RISER	2HST 100'	2HST 500'	4HST 100'	4HST 250'	4HST 500'	6HST 250'	6HST 500'	BFO PREMISE DROP	ONT	NID
CPUC-P3	1					SLACK	1	5		1		1		50	100	50											
P3-00.1				1							1	1	25												2	2	2
P3-00.2				1							1	1	235												4	4	4
P3-01		1				SLACK						1	70		200	100											
P3-1A				1		SLACK					1	1	92		104						1				3	3	3
P3-02			1			SLACK						1	77		107												
P3-03			1			SLACK						1	67		97												
P3-04			1			SLACK						1	65		95								1		2	2	2
P3-05			1			SLACK						1	74		104												
P3-06			1			SLACK						1	74		104												
P3-12			1									1	83														
P3-13			1									1	74														
P3-14			1									1	60										1		2	2	2
P3-15			1									1	81														
P3-21			1									1	69														
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P3-22			1			SLACK						1	55		85												
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P3-32			1									1	41							1					2	2	2
P3-33			1									1	114														
P3-34			1									1	74									1			3	3	3
P3-35			1									1	69														
P3-36			1									1	348						1						2	2	2
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						SLACK								50													
MP-018	Existing					SLACK				1					100												
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P3-55			1									1	101										1		5	5	5
P3-56			1									1	98														
P3-4B2A				1		SLACK					1	1	181		193										4	4	4
P3-4B2B				1		SLACK					1	1	193		205										2	2	2
P3-4B2C				1		SLACK					1	1	139		151										2	2	2
TOTAL	1	2	24	9			1	5	1	2	9	36	3,898	145	3,023	280	1	1	1	3	3	1	3	1	46	46	46

LEGEND

2HST

2 Port HST Cable

4HST

4 Port HST Cable

6HST

6 Port HST Cable

BFO-1

Buried Fiber Optic Drop Cable (BFO1)

BFO-2

Buried Fiber Optic Drop Cable (BFO2)

BFO-12

Buried Fiber Optic Cable (BFO12)

BFO-24

Buried Fiber Optic Cable (BFO24)

BFO-48

Buried Fiber Optic Cable (BFO48)

BFO-96

Buried Fiber Optic Cable (BFO96)

BFO-144

Buried Fiber Optic Cable (BFO144)

BFO-288

Buried Fiber Optic Cable (BFO288)

CO-1

Aerial Fiber Optic Drop Cable (CO1)

CO-2

Aerial Fiber Optic Drop Cable (CO2)

CO-12

Aerial Fiber Optic Cable (CO12)

CO-24

Aerial Fiber Optic Cable (CO24)

CO-48

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Aerial Fiber Optic Cable (CO288)

Utility Pole

Down Guy & Anchor

Pedestal (BD5)

Buried Hand Hole (BHF)

PON Cabinet/Pedestal

Aerial Slack Loop

Splice Case

Grounding Unit

Hardened Service Terminal (HST)

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California 811

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PD PON 3 STAKING SHEETS

P3-1A OF P3-2



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	BY	DATE
DESIGNED	AE	6/11/2026
DRAWN	RS/JB	6/11/2026
CHECKED	TK/SP	6/11/2026

8655 E. VIA DE VENTURA
SUITE E-140
SCOTTSDALE, AZ 85258
602-550-4295
admin@ackermanacg.com

PD PON 3 STAKING SHEETS

P3-2 OF P3-2

KEY MAP - FTTP PARKER DAM: PON 4



LEGEND

- 2HST 2 Port HST Cable
- 4HST 4 Port HST Cable
- 6HST 6 Port HST Cable
- BFO-1 Buried Fiber Optic Drop Cable (BFO1)
- BFO-2 Buried Fiber Optic Drop Cable (BFO2)
- BFO-12 Buried Fiber Optic Cable (BFO12)
- BFO-24 Buried Fiber Optic Cable (BFO24)
- BFO-48 Buried Fiber Optic Cable (BFO48)
- BFO-96 Buried Fiber Optic Cable (BFO96)
- BFO-144 Buried Fiber Optic Cable (BFO144)
- BFO-288 Buried Fiber Optic Cable (BFO288)
- CO-1 Aerial Fiber Optic Drop Cable (CO1)
- CO-2 Aerial Fiber Optic Drop Cable (CO2)
- CO-12 Aerial Fiber Optic Cable (CO12)
- CO-24 Aerial Fiber Optic Cable (CO24)
- CO-48 Aerial Fiber Optic Cable (CO48)
- CO-96 Aerial Fiber Optic Cable (CO96)
- CO-144 Aerial Fiber Optic Cable (CO144)
- CO-288 Aerial Fiber Optic Cable (CO288)
- Utility Pole
- Down Guy & Anchor
- Pedestal (BD5)
- Buried Hand Hole (BHF)
- PON Cabinet/Pedestal
- Aerial Slack Loop
- Splice Case
- Grounding Unit
- Hardened Service Terminal (HST)

UTILITY CAUTION:

Limited utility information available. Existing utilities are assumed to be in close proximity. Contractor shall blue stake and protect existing utilities in place.



RIGHT-OF-WAY NOTE:

Right-of-way information downloaded from Riverside County, San Bernardino County, and CalTrans.

C			
B			
A	POLE SURVEY UPDATES	1	04.30.2026
NO	REVISION	NO	DATE

PROJECT NO. 25.03.01

COLORADO RIVER INDIAN TRIBES
CALIFORNIA PUBLIC UTILITY COMMISSION
EQUITY & ACCESS GRANT DESIGN PLANS



	BY	DATE
DESIGNED	AE	6/11/2026
DRAWN	RS/JB	6/11/2026
CHECKED	TK/SP	6/11/2026

8655 E. VIA DE VENTURA
SUITE E-140
SCOTTSDALE, AZ 85258
602-550-4295
admin@ackermanacg.com



LEGEND

- 2HST 2 Port HST Cable
- 4HST 4 Port HST Cable
- 6HST 6 Port HST Cable
- BFO-1 Buried Fiber Optic Drop Cable (BFO1)
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UTILITY CAUTION:

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SCALE: Hor=1"=60'
FULL SIZE

60 0 60 120
SCALE IN FEET

RIGHT-OF-WAY NOTE:

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CALIFORNIA PUBLIC UTILITY COMMISSION
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PD PON 4 STAKING SHEETS

P4-1 OF P4-1

HH NO.	BHF 30x48x24	BD5 PED	POLE	ADDED FIBER ITEM	48-PORT PON PED	1:32 SPLITTER	HAPO(L): AERIAL FOSC 450D	HAPO(M): AERIAL FOSC 450B	HBFO(M): BURIED FOSC 450B	BM2	V(2)1.25"	BFO-96	BM82 HDPE RISER	PM2A GROUND	10M STRAND	CO-48	SNOW SHOE	PE1-3	PE2-3	PF1-5	PM11	4HST 100'	4HST 250'	6HST 250'	CO PREMISE DROP	ONT	NID
CPUC-P4	1				1	2			1	1																	
				SLACK								50															
			PMP-012				1				20	20	1				EXIST										
				RISER								25															
				SLACK								50				50											
			P4-000																	1	1	1					
			P4-001												230	230											
			P4-002												245	245											
			P4-003					1						1	219	219	2	2		2	2						
				SLACK												100											
			P4-004												217	217							1		4	4	4
			P4-005					1							157	157	2						1		2	2	2
				SLACK												100											
			P4-006												178	178											
			P4-007					1							176	176	2										
				SLACK												50											
			P4-003B																				1		1	1	1
			P4-003C																				1		4	4	4
			P4-005B																				1		3	3	3
			P4-007A																				1		4	4	4
			P4-007B																					1	5	5	5
			P4-007C												167									1	6	6	6
			P4-007E												166												
			P4-007F											1					1	1	1						
TOTAL	1	0			1	2	1	3	1	1	20	145	1	2	1755	1722	6	2	2	4	4	1	5	2	29	29	29

2HST

2 Port HST Cable

4HST

4 Port HST Cable

6HST

6 Port HST Cable

BFO-1

Buried Fiber Optic Drop Cable (BFO1)

BFO-2

Buried Fiber Optic Drop Cable (BFO2)

BFO-12

Buried Fiber Optic Cable (BFO12)

BFO-24

Buried Fiber Optic Cable (BFO24)

BFO-48

Buried Fiber Optic Cable (BFO48)

BFO-96

Buried Fiber Optic Cable (BFO96)

BFO-144

Buried Fiber Optic Cable (BFO144)

BFO-288

Buried Fiber Optic Cable (BFO288)

CO-1

Aerial Fiber Optic Drop Cable (CO1)

CO-2

Aerial Fiber Optic Drop Cable (CO2)

CO-12

Aerial Fiber Optic Cable (CO12)

CO-24

Aerial Fiber Optic Cable (CO24)

CO-48

Aerial Fiber Optic Cable (CO48)

CO-96

Aerial Fiber Optic Cable (CO96)

CO-144

Aerial Fiber Optic Cable (CO144)

CO-288

Aerial Fiber Optic Cable (CO288)

⊗

Utility Pole

⚓

Down Guy & Anchor

▣

Pedestal (BD5)

▢

Buried Hand Hole (BHF)

⬡

PON Cabinet/Pedestal

⊞

Aerial Slack Loop

★

Splice Case

⚡

Grounding Unit

🔌

Hardened Service Terminal (HST)

UTILITY CAUTION:

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California 811

RIGHT-OF-WAY NOTE:

Right-of-way information downloaded from Riverside County, San Bernardino County, and CalTrans.

C			
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A	POLE SURVEY UPDATES	1	04.30.2026
NO	REVISION	NO	DATE

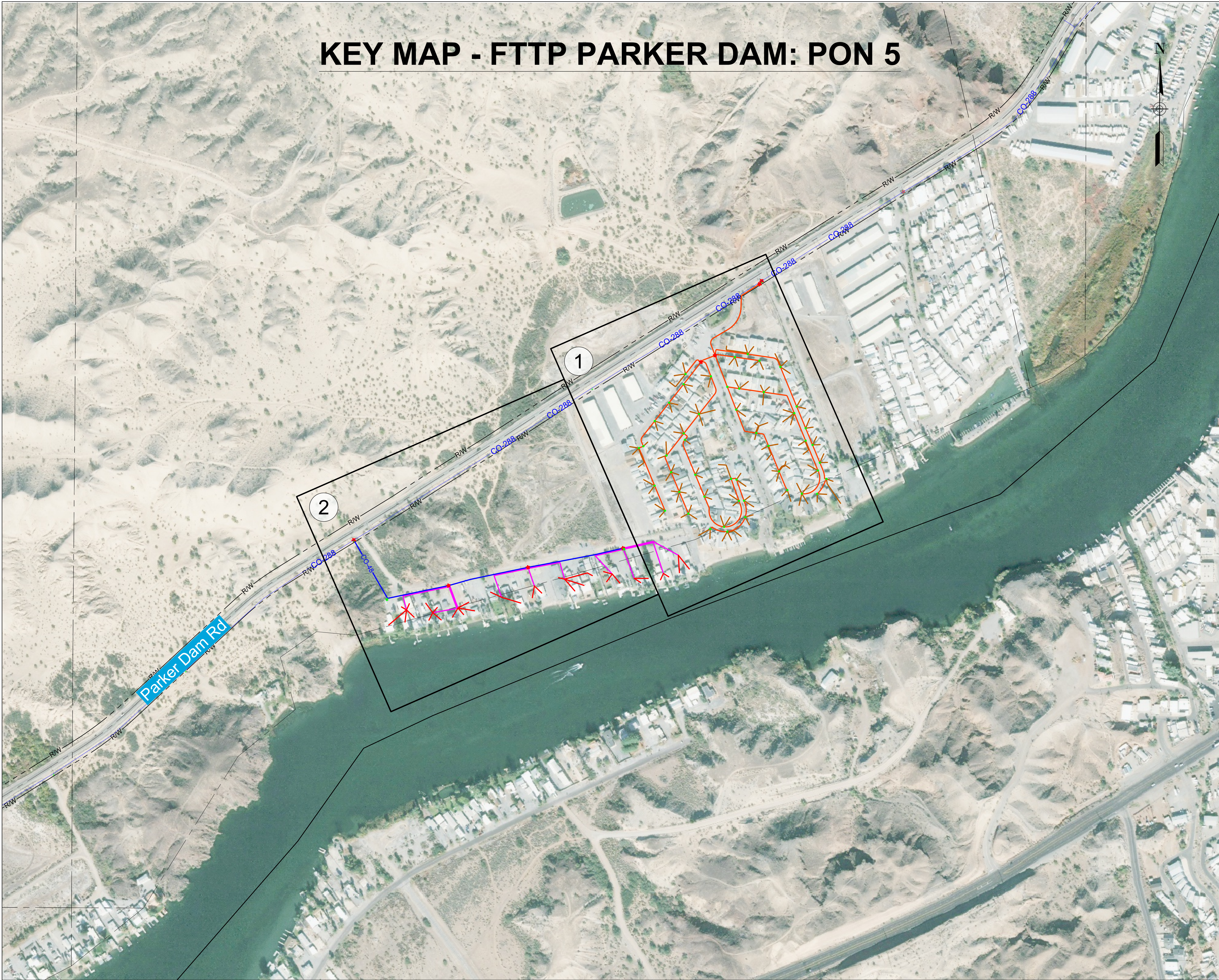
PROJECT NO. 25.03.01

COLORADO RIVER INDIAN TRIBES
CALIFORNIA PUBLIC UTILITY COMMISSION
EQUITY & ACCESS GRANT DESIGN PLANS

REGISTERED PROFESSIONAL ENGINEER SURESH K. AGRAVA No. C75292 Exp. 12-31-2027 CIVIL STATE OF CALIFORNIA SIGNED: 06/11/26	DESIGNED	BY AE	DATE 6/11/2026
	DRAWN	RS/JB	6/11/2026
	CHECKED	TK/SP	6/11/2026
	ACG 8655 E. VIA DE VENTURA SUITE E-140 SCOTTSDALE, AZ 85258 602-550-4295 admin@ackermanacg.com		

PD PON 4 STAKING SHEETS

P4-1A OF P4-1



KEY MAP - FTTP PARKER DAM: PON 5

LEGEND

- 2HST 2 Port HST Cable
- 4HST 4 Port HST Cable
- 6HST 6 Port HST Cable
- BFO-1 Buried Fiber Optic Drop Cable (BFO1)
- BFO-2 Buried Fiber Optic Drop Cable (BFO2)
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COLORADO RIVER INDIAN TRIBES
CALIFORNIA PUBLIC UTILITY COMMISSION
EQUITY & ACCESS GRANT DESIGN PLANS



	BY	DATE
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CHECKED	TK/SP	6/11/2026

8655 E. VIA DE VENTURA
SUITE E-140
SCOTTSDALE, AZ 85258
602-550-4295
admin@ackermanacg.com



- NOTES:**
1. All conduit runs shall be V(2)1.25", except drops shall be V(1)1.25".
 2. One BM2 Ground Rod shall be installed in each BD5 and BHF.
 3. 24-strand capacity splice tray(s) shall be installed in each BD5.
 4. Hand holes and pedestals shall be field verified to avoid obstructions to driveways and driving paths.

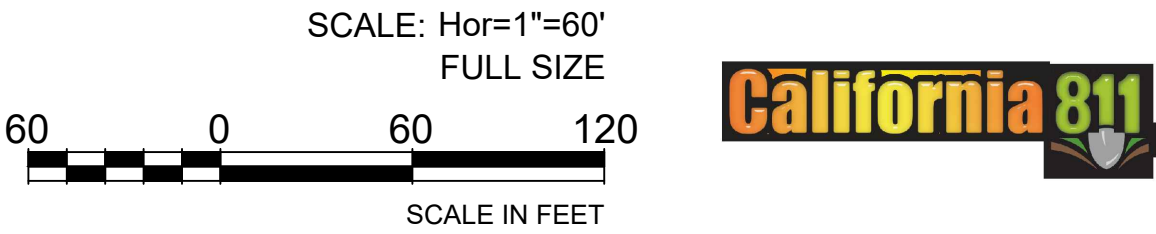
SEE SHT P5-2 OF P5-2

LEGEND

- 2HST 2 Port HST Cable
- 4HST 4 Port HST Cable
- 6HST 6 Port HST Cable
- BFO-1 Buried Fiber Optic Drop Cable (BFO1)
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COLORADO RIVER INDIAN TRIBES
CALIFORNIA PUBLIC UTILITY COMMISSION
EQUITY & ACCESS GRANT DESIGN PLANS



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ACG

HH NO.	BHF 30x48x36	BHF 30x48x24	BD5 PED	POLE	ADDED FIBER ITEM	288-PORT PON CABINET	1:64 SPLITTER	HAPO(L): AERIAL FOSC 450D	HBFO(L): BURIED FOSC 450D	HO1(24): BD5 SPLICE TRAY(S)	BM2	V(2)1.25"	BFO-144	BFO-48	BFO-24	BM82 HDPE RISER	PM2A GROUND	10M STRAND	SNOW SHOE	PE1-3	PF1-5	PM11	4HST 500'	BFO PREMISE DROP	CO PREMISE DROP	ONT	NID	
CPUC-P5	1				SLACK	1	5		1		1		50	50														
P5-01		1			SLACK				1		1	502	602	50	100													
P5-1A1A			1		SLACK					1	1	197			209									3		3	3	
P5-1A1B			1		SLACK					1	1	198			210									3		3	3	
P5-1A1C			1		SLACK					1	1	224			236									2		2	2	
P5-1A1D			1		SLACK					1	1	123			135									2		2	2	
P5-1A1E			1		SLACK					1	1	95			107									2		2	2	
P5-1A1F			1		SLACK					1	1	100			112									2		2	2	
P5-1A1G			1		SLACK					1	1	97			109									2		2	2	
P5-1A1H			1		SLACK					1	1	93			105									2		2	2	
P5-1A2A			1		SLACK					1	1	105			117									2		2	2	
P5-1A2B			1		SLACK					1	1	130			142									2		2	2	
P5-1A3A			1		SLACK					1	1	177		189	12													
P5-1A3B			1		SLACK					1	1	63		75										2		2	2	
P5-1A3C			1		SLACK					1	1	130		142										3		3	3	
P5-1A3D			1		SLACK					1	1	222		234										3		3	3	
P5-1A3E			1		SLACK					1	1	156		168										2		2	2	
P5-1A3F			1		SLACK					1	1	169		181										2		2	2	
P5-1A3G			1		SLACK					1	1	182		194										4		4	4	
P5-1A3A1A			1		SLACK					1	1	128			140									2		2	2	
P5-1A3A1B			1		SLACK					1	1	183			195									3		3	3	
P5-1A3A1C			1		SLACK					1	1	105			117									3		3	3	
P5-1A3A1D			1		SLACK					1	1	145			157									4		4	4	
P5-1A3A1E			1		SLACK					1	1	107			119									2		2	2	
P5-02		1			SLACK				1		1	83	133	50	100													
P5-1B1A			1		SLACK					1	1	101		113										2		2	2	
P5-1B1B			1		SLACK					1	1	232		244										4		4	4	
P5-1B1C			1		SLACK					1	1	129		141	12									2		2	2	
P5-1B1D			1		SLACK					1	1	46		58										1		1	1	
P5-1B1E			1		SLACK					1	1	198		210										2		2	2	
P5-1B1F			1		SLACK					1	1	124		136										2		2	2	
P5-1B1G			1		SLACK					1	1	206		218										2		2	2	
P5-1B1H			1		SLACK					1	1	193		205										2		2	2	
P5-1B1I			1		SLACK					1	1	123		135										2		2	2	
P5-1B1J			1		SLACK					1	1	32		44										2		2	2	
P5-1B1K			1		SLACK					1	1	117		129										2		2	2	
P5-1B1L			1		SLACK					1	1	88		100										2		2	2	
P5-1B1M			1		SLACK					1	1	128		140										3		3	3	
P5-1B1N			1		SLACK					1	1	98		110										2		2	2	
P5-1B1C1A			1		SLACK					1	1	147			159									2		2	2	
P5-1B1C1B			1		SLACK					1	1	96			108									3		3	3	
P5-1B1C1C			1		SLACK					1	1	112			124									4		4	4	
P5-1B1C1D			1		SLACK					1	1	123			135									3		3	3	
P5-1B2A			1		SLACK					1	1	147			159									2		2	2	
P5-1B2B			1		SLACK					1	1	123			135									2		2	2	
P5-1B2C			1		SLACK					1	1	122			134									2		2	2	
P5-1B2D			1		SLACK					1	1	158			170									1		1	1	
P5-1B2E			1		SLACK					1	1	25			37									3		3	3	
P5-1B2F			1		SLACK					1	1	213			225									2		2	2	
P5-1B2G			1		SLACK					1	1	142			154									2		2	2	
P5-1B3A			1		SLACK					1	1	119			131									3		3	3	
				PMP-030				1				20		20		1	EXIST			EXIST								
					RISER									25														
					SLACK									50														
				P5-009D																			1		2	2	2	
				P5-009E																			1		2	2	2	
TOTAL	1	2	48			1	5	1	3	48	51	7076	785	3411	4105	1	0	0	0	0	0	0	0	2	111	4	115	115

2HST

2 Port HST Cable

4HST

4 Port HST Cable

6HST

6 Port HST Cable

BFO-1

Buried Fiber Optic Drop Cable (BFO1)

BFO-2

Buried Fiber Optic Drop Cable (BFO2)

BFO-12

Buried Fiber Optic Cable (BFO12)

BFO-24

Buried Fiber Optic Cable (BFO24)

BFO-48

Buried Fiber Optic Cable (BFO48)

BFO-96

Buried Fiber Optic Cable (BFO96)

BFO-144

Buried Fiber Optic Cable (BFO144)

BFO-288

Buried Fiber Optic Cable (BFO288)

CO-1

Aerial Fiber Optic Drop Cable (CO1)

CO-2

Aerial Fiber Optic Drop Cable (CO2)

CO-12

Aerial Fiber Optic Cable (CO12)

CO-24

Aerial Fiber Optic Cable (CO24)

CO-48

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Aerial Fiber Optic Cable (CO144)

CO-288

Aerial Fiber Optic Cable (CO288)

Utility Pole

Down Guy & Anchor

Pedestal (BD5)

Buried Hand Hole (BHF)

PON Cabinet/Pedestal

Aerial Slack Loop

Splice Case

Grounding Unit

Hardened Service Terminal (HST)

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California 811

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PROJECT NO. 25.03.01

COLORADO RIVER INDIAN TRIBES

CALIFORNIA PUBLIC UTILITY COMMISSION

EQUITY & ACCESS GRANT DESIGN PLANS

REGISTERED PROFESSIONAL ENGINEER

SURFERRA GARCIA VERA

No. C75292 Exp. 12-31-2027

CIVIL

STATE OF CALIFORNIA

SIGNED: 06/11/2026

DESIGNED

AE

6/11/2026

DRAWN

RS/JB

6/11/2026

CHECKED

TK/SP

6/11/2026

ACG

8655 E. VIA DE VENTURA
SUITE E-140
SCOTTSDALE, AZ 85258
602-550-4295
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PD PON 5 STAKING SHEETS

P5-1A OF P5-2



LEGEND

- 2HST 2 Port HST Cable
- 4HST 4 Port HST Cable
- 6HST 6 Port HST Cable
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SCALE: Hor=1"=60'
FULL SIZE

60 0 60 120
SCALE IN FEET

California 811

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CALIFORNIA PUBLIC UTILITY COMMISSION
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PD PON 5 STAKING SHEETS

P5-2 OF P5-2

HH NO.	BHF 30x48x36	BHF 30x48x24	BD5 PED	POLE	ADDED FIBER ITEM	288-PORT PON CABINET	1:64 SPLITTER	HAPO(L): AERIAL FOSC 450D	HAPO(M) AERIAL FOSC 450B	HO1(24): BD5 SPLICE TRAY(S)	BM2	V(2)1.25"	BM82 HDPE RISER	PM2A GROUND	10M STRAND	CO-48	SNOW SHOE	PE1-3	PF1-5	PM11	4HST 250'	4HST 500'	6HST 500'	BFO PREMISE DROP	CO PREMISE DROP	ONT	NID
				PMP-020				1						EXIST		50	EXIST	1	1	1							
					SLACK																						
				P5-001										1	353	353			2	2	2						
				P5-002											81	81											
				P5-003					1						245	245	2										
					SLACK											100											
				P5-002A																					5	5	5
				P5-003A																		1			4	4	4
				P5-003B																			1		4	4	4
				P5-004											119	119											
				P5-005											125	125											
				P5-006					1						184	184	2										
					SLACK											100											
				P5-005A																					2	2	2
				P5-006A																		1			2	2	2
				P5-007A																					4	4	4
				P5-007											168	168											
				P5-008											189	189											
				P5-009					1					1	151	151	2	1	1	1							
					SLACK											50											
				P5-008A																			1		3	3	3
				P5-009A																					2	2	2
TOTAL	0	0	0			0	0	1	3	0	0	0	0	2	1615	1915	6	4	4	4	3	4	1	0	26	26	26

LEGEND

2HST

2 Port HST Cable

4HST

4 Port HST Cable

6HST

6 Port HST Cable

BFO-1

Buried Fiber Optic Drop Cable (BFO1)

BFO-2

Buried Fiber Optic Drop Cable (BFO2)

BFO-12

Buried Fiber Optic Cable (BFO12)

BFO-24

Buried Fiber Optic Cable (BFO24)

BFO-48

Buried Fiber Optic Cable (BFO48)

BFO-96

Buried Fiber Optic Cable (BFO96)

BFO-144

Buried Fiber Optic Cable (BFO144)

BFO-288

Buried Fiber Optic Cable (BFO288)

CO-1

Aerial Fiber Optic Drop Cable (CO1)

CO-2

Aerial Fiber Optic Drop Cable (CO2)

CO-12

Aerial Fiber Optic Cable (CO12)

CO-24

Aerial Fiber Optic Cable (CO24)

CO-48

Aerial Fiber Optic Cable (CO48)

CO-96

Aerial Fiber Optic Cable (CO96)

CO-144

Aerial Fiber Optic Cable (CO144)

CO-288

Aerial Fiber Optic Cable (CO288)

Utility Pole

Down Guy & Anchor

Pedestal (BD5)

Buried Hand Hole (BHF)

PON Cabinet/Pedestal

Aerial Slack Loop

Splice Case

Grounding Unit

Hardened Service Terminal (HST)

UTILITY CAUTION:

Limited utility information available. Existing utilities are assumed to be in close proximity. Contractor shall blue stake and protect existing utilities in place.



RIGHT-OF-WAY NOTE:

Right-of-way information downloaded from Riverside County, San Bernardino County, and CalTrans.

C			
B			
A	POLE SURVEY UPDATES	1	04.30.2026
NO	REVISION	NO	DATE

PROJECT NO. 25.03.01

COLORADO RIVER INDIAN TRIBES
CALIFORNIA PUBLIC UTILITY COMMISSION
EQUITY & ACCESS GRANT DESIGN PLANS



	BY	DATE
DESIGNED	AE	6/11/2026
DRAWN	RS/JB	6/11/2026
CHECKED	TK/SP	6/11/2026



8655 E. VIA DE VENTURA
SUITE E-140
SCOTTSDALE, AZ 85258
602-550-4295
admin@ackermanacg.com

PD PON 5 STAKING SHEETS

P5-2A OF P5-2

KEY MAP - FTTP PARKER DAM: PON 6



LEGEND

- 2HST 2 Port HST Cable
- 4HST 4 Port HST Cable
- 6HST 6 Port HST Cable
- BFO-1 Buried Fiber Optic Drop Cable (BFO1)
- BFO-2 Buried Fiber Optic Drop Cable (BFO2)
- BFO-12 Buried Fiber Optic Cable (BFO12)
- BFO-24 Buried Fiber Optic Cable (BFO24)
- BFO-48 Buried Fiber Optic Cable (BFO48)
- BFO-96 Buried Fiber Optic Cable (BFO96)
- BFO-144 Buried Fiber Optic Cable (BFO144)
- BFO-288 Buried Fiber Optic Cable (BFO288)
- CO-1 Aerial Fiber Optic Drop Cable (CO1)
- CO-2 Aerial Fiber Optic Drop Cable (CO2)
- CO-12 Aerial Fiber Optic Cable (CO12)
- CO-24 Aerial Fiber Optic Cable (CO24)
- CO-48 Aerial Fiber Optic Cable (CO48)
- CO-96 Aerial Fiber Optic Cable (CO96)
- CO-144 Aerial Fiber Optic Cable (CO144)
- CO-288 Aerial Fiber Optic Cable (CO288)
- Utility Pole
- Down Guy & Anchor
- Pedestal (BD5)
- Buried Hand Hole (BHF)
- PON Cabinet/Pedestal
- Aerial Slack Loop
- Splice Case
- Grounding Unit
- Hardened Service Terminal (HST)

UTILITY CAUTION:

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SCALE: Hor=1"=60'
FULL SIZE

600000120

SCALE IN FEET

California 811

RIGHT-OF-WAY NOTE:

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C			
B			
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NO	REVISION	NO	DATE

PROJECT NO. 25.03.01

COLORADO RIVER INDIAN TRIBES
CALIFORNIA PUBLIC UTILITY COMMISSION
EQUITY & ACCESS GRANT DESIGN PLANS

REGISTERED PROFESSIONAL ENGINEER
SUPERVISOR GRAVITY & WATER
No. C75292 Exp. 12-31-2027
CIVIL
STATE OF CALIFORNIA
SIGNED: 06/11/26

	BY	DATE
DESIGNED	AE	6/11/2026
DRAWN	RS/JB	6/11/2026
CHECKED	TK/SP	6/11/2026

ACG

8655 E. VIA DE VENTURA
SUITE E-140
SCOTTSDALE, AZ 85258
602-550-4295
admin@ackermancg.com

KEY MAP - FTTP PARKER DAM PON 6

P6-E OF P6-1



NOTES:

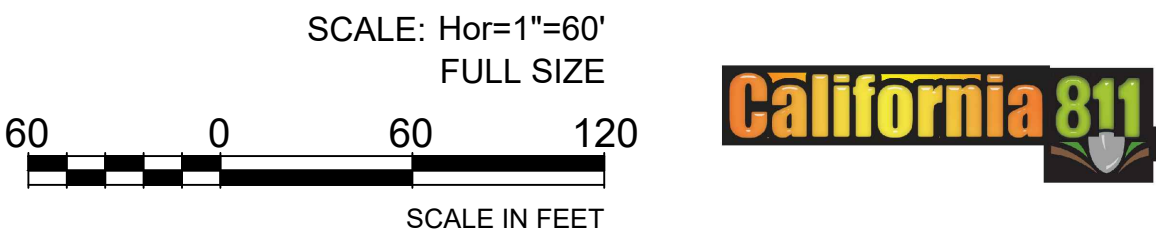
1. All conduit runs shall be V(2)1.25", except drops shall be V(1)1.25".
2. One BM2 Ground Rod shall be installed in each BD5 and BHF.
3. 24-strand capacity splice tray(s) shall be installed in each BD5.
4. Hand holes and pedestals shall be field verified to avoid obstructions to driveways and driving paths.

CPUC-P6 identification prefix typical for all BHF, BD5s, HSTs, and Splices. Please see plans for the final unique identification number for each element.

- LEGEND**
- 2HST 2 Port HST Cable
 - 4HST 4 Port HST Cable
 - 6HST 6 Port HST Cable
 - BFO-1 Buried Fiber Optic Drop Cable (BFO1)
 - BFO-2 Buried Fiber Optic Drop Cable (BFO2)
 - BFO-12 Buried Fiber Optic Cable (BFO12)
 - BFO-24 Buried Fiber Optic Cable (BFO24)
 - BFO-48 Buried Fiber Optic Cable (BFO48)
 - BFO-96 Buried Fiber Optic Cable (BFO96)
 - BFO-144 Buried Fiber Optic Cable (BFO144)
 - BFO-288 Buried Fiber Optic Cable (BFO288)
 - CO-1 Aerial Fiber Optic Drop Cable (CO1)
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 - CO-144 Aerial Fiber Optic Cable (CO144)
 - CO-288 Aerial Fiber Optic Cable (CO288)
 - Utility Pole
 - Down Guy & Anchor
 - Pedestal (BD5)
 - Buried Hand Hole (BHF)
 - PON Cabinet/Pedestal
 - Aerial Slack Loop
 - Splice Case
 - Grounding Unit
 - Hardened Service Terminal (HST)

UTILITY CAUTION:

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RIGHT-OF-WAY NOTE:

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C			
B			
A	POLE SURVEY UPDATES	1	04.30.2026
NO	REVISION	NO	DATE

PROJECT NO. 25.03.01

**COLORADO RIVER INDIAN TRIBES
CALIFORNIA PUBLIC UTILITY COMMISSION
EQUITY & ACCESS GRANT DESIGN PLANS**

	DESIGNED	AE	6/11/2026
	DRAWN	RS/JB	6/11/2026
	CHECKED	TK/SP	6/11/2026
	 8655 E. VIA DE VENTURA SUITE E-140 SCOTTSDALE, AZ 85258 602-550-4295 admin@ackermanacg.com		

HH NO.	BHF 30X48X36	BHF 30X48X24	BHF 13X24X18	BD5 PED	POLE	ADDED FIBER ITEM	144-PORT PON CABINET	1:64 SPLITTER	HAPO(L): AERIAL FOSC 450D	HBFO(L): BURIED FOSC 450D	HO1(24): BD5 SPLICE TRAY(S)	BM2	V(2)1.25"	BFO-144	BFO-48	BFO-24	BM82 HDPE RISER	PM2A GROUND	SNOW SHOE	PE1-3	PF1-5	PM11	2HST 250'	BFO PREMISE DROP	CO PREMISE DROP	ONT	NID
					PMP-034	RISER			EXIST					25			1		EXIST								
CPUC-P6	1					SLACK	1	3		1		1	15	65													
P6-01		1				SLACK				1		1	131	231	50	50								2		2	2
P6-A.1				1							1	1	79										1	2		2	2
P6-A1A				1		SLACK					1	1	177			189								2		2	2
P6-A1B				1		SLACK					1	1	126			138								1		1	1
P6-A1B.1				1							1	1	133										1	2		2	2
P6-A1C				1		SLACK					1	1	25			37								1		1	1
P6-A1C.1				1							1	1	90										1	2		2	2
P6-A1C.2				1							1	1	93										1	2		2	2
P6-A2A				1		SLACK					1	1	210		222									3		3	3
P6-A2B				1		SLACK					1	1	91		103									3		3	3
P6-A2C				1		SLACK					1	1	101		113									4		4	4
P6-A2D				1		SLACK					1	1	97		109									4		4	4
P6-A2E				1		SLACK					1	1	45		57									2		2	2
P6-A2F				1		SLACK					1	1	148		160									2		2	2
P6-A2G				1		SLACK					1	1	160		172									2		2	2
P6-A2H				1		SLACK					1	1	189		201									3		3	3
P6-A2I				1		SLACK					1	1	98		110									2		2	2
P6-A2J				1		SLACK					1	1	144		156									3		3	3
P6-02		1				SLACK				1		1	354	454		100								1		1	1
P6-B1A				1		SLACK					1	1	173			185								3		3	3
P6-B1B				1		SLACK					1	1	97			109								2		2	2
P6-B1C				1		SLACK					1	1	96			108								2		2	2
P6-B2A				1		SLACK					1	1	178			190								2		2	2
P6-B2B				1		SLACK					1	1	86			98								2		2	2
P6-B2C				1		SLACK					1	1	92			104								2		2	2
P6-B2D				1		SLACK					1	1	57			69								2		2	2
P6-B2E				1		SLACK					1	1	130			142								2		2	2
P6-03		1				SLACK				1		1	347	397	50	200								3		3	3
P6-C1A				1		SLACK					1	1	106			118								3		3	3
P6-C1B				1		SLACK					1	1	92			104								2		2	2
P6-C1C				1		SLACK					1	1	85			97								2		2	2
P6-C1D				1		SLACK					1	1	113			125								2		2	2
P6-C2A				1		SLACK					1	1	140			152								2		2	2
P6-C2B				1		SLACK					1	1	70			82								2		2	2
P6-C2C				1		SLACK					1	1	76			88								2		2	2
P6-C2D				1		SLACK					1	1	83			95								2		2	2
P6-C3A				1		SLACK					1	1	196			208								3		3	3
P6-C3B				1		SLACK					1	1	65			77								4		4	4
P6-C3C				1		SLACK					1	1	72			84								3		3	3
P6-C3D				1		SLACK					1	1	72			84								3		3	3
P6-04			1			SLACK						1	137		187	187											
P6-C4A				1		SLACK					1	1	156			168								2		2	2
P6-C4B				1		SLACK					1	1	106			118								4		4	4
P6-D				1		SLACK					1	1	62		74	12								2		2	2
P6-D1A				1		SLACK					1	1	94			106								2		2	2
P6-D1B				1		SLACK					1	1	71			83								2		2	2
P6-D1C				1		SLACK					1	1	73			85								2		2	2
P6-D1D				1		SLACK					1	1	73			85								2		2	2
P6-D1E				1		SLACK					1	1	174			186								2		2	2
P6-D1F				1		SLACK					1	1	78			90								2		2	2
P6-E				1		SLACK					1	1	36		48	12								1		1	1
P6-E1A				1		SLACK					1	1	131			143								2		2	2
P6-E1B				1		SLACK					1	1	118			130								2		2	2
P6-E1C				1		SLACK					1	1	125			137								2		2	2
P6-F				1		SLACK					1	1	130		142	12											
P6-F1A				1		SLACK					1	1	105			117								2		2	2
P6-F1B				1		SLACK					1	1	134			146								2		2	2
P6-F1C				1		SLACK					1	1	107			119								2		2	2
P6-G				1		SLACK					1	1	25		37									2		2	2
P6-H				1		SLACK					1	1	70		82									2		2	2
P6-I				1		SLACK					1	1	73		85									2		2	2
P6-J				1		SLACK					1	1	71		83									2		2	2
P6-K				1		SLACK					1	1	103		115									2		2	2
P6-L				1		SLACK					1	1	72		84									2		2	2
P6-M				1		SLACK					1	1	144		156									2		2	2
P6-N				1		SLACK					1	1	125		137									2		2	2
TOTAL	1	3	1	62			1	3	0	4	62	67	7525	1172	2733	4969	1	0	0	0	0	0	4	142	0	142	142

LEGEND

2HST

2 Port HST Cable

4HST

4 Port HST Cable

6HST

6 Port HST Cable

BFO-1

Buried Fiber Optic Drop Cable (BFO1)

BFO-2

Buried Fiber Optic Drop Cable (BFO2)

BFO-12

Buried Fiber Optic Cable (BFO12)

BFO-24

Buried Fiber Optic Cable (BFO24)

BFO-48

Buried Fiber Optic Cable (BFO48)

BFO-96

Buried Fiber Optic Cable (BFO96)

BFO-144

Buried Fiber Optic Cable (BFO144)

BFO-288

Buried Fiber Optic Cable (BFO288)

CO-1

Aerial Fiber Optic Drop Cable (CO1)

CO-2

Aerial Fiber Optic Drop Cable (CO2)

CO-12

Aerial Fiber Optic Cable (CO12)

CO-24

Aerial Fiber Optic Cable (CO24)

CO-48

Aerial Fiber Optic Cable (CO48)

CO-96

Aerial Fiber Optic Cable (CO96)

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Aerial Fiber Optic Cable (CO144)

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Utility Pole

Down Guy & Anchor

Pedestal (BD5)

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Aerial Slack Loop

Splice Case

Grounding Unit

Hardened Service Terminal (HST)

UTILITY CAUTION:

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PD PON 6 STAKING SHEETS

P6-1A OF P6-1