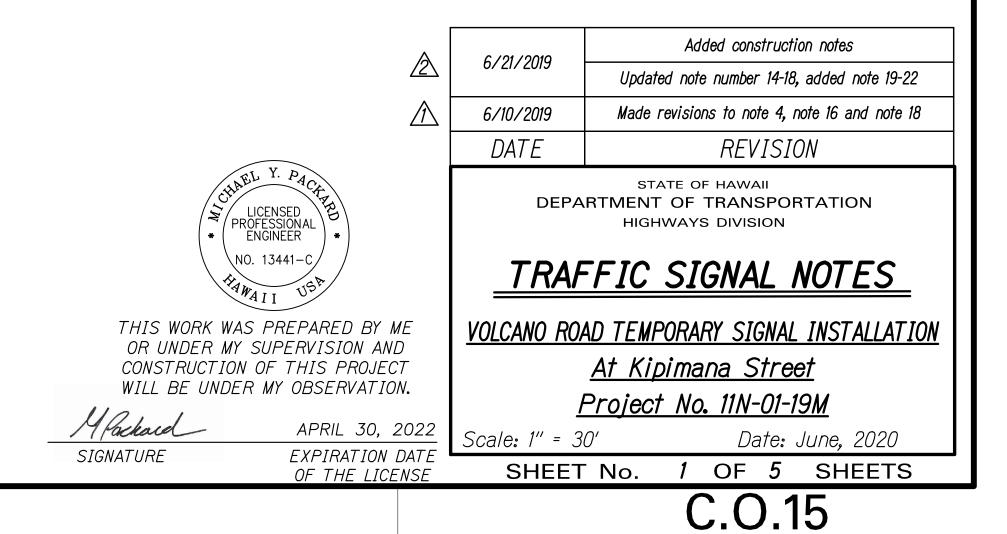
	1.	The locations of the temporary traffic poles (wood), traffic controller, pullboxes, conduits, and loop detectors shall be staked out in the field by the Contractor and approval of the locations shall be obtained from the Engineer prior to	Â	14
		construction and installation.	\triangle	15
	2.	Any required splicing shall be done in the pullboxes.	\land	16
	3.	Furnishing and installing controller barriers, and risers on poles will not be paid for separately but shall be considered incidental to the various contract items.	۸	
Â	4.	A solid #8 insulated copper wire shall run with the traffic signal control cable for equipment ground. Cost shall be considered incidental to the installation of the control cable.	<u>/2</u> \	17
	5.	All traffic signal controller equipment shall be completely wired in the cabinet and shall control the traffic signals as called for in the plans.		18
	6.	The Contractor shall install the meter pedestal as shown in the electrical drawings.		19
	7.	Should any defect be encountered during the controller warranty period, the Manufacturer will be notified and he shall promptly correct such defect. Service call (by factory qualified		2
		representative) during the warranty period for repairs or other maintenance shall be answered within 24 hours and shall be done at no expense whatsoever to the state. All repairs shall be done as soon as possible.		2
	8.	Restoration of existing pavements and improvements unavoidably damaged shall be incidental to the various contract items. Restoration shall be to original or better condition.		2.
	9.	The Contractor shall provide off-duty police officer(s) to control the flow of traffic as required by the Engineer and the Traffic Control Plans.		
	10.	The Contractor shall notify the County of Hawaii, Department of Public Works, Traffic Engineer [(808) 961-8341], and Department of Transportation Hawaii District Office [(808) 933-8866], three (3) days prior to commencing work on the traffic signal system.		
	11.	The Contractor shall verify all work in the field prior to submitting of bid, ordering of materials, fabrication of brackets, etc.		
	12.	The Contractor shall not construct conduits, pullboxes, temporary traffic poles (wood), etc. outside of state or county right-of-way unless shown otherwise on the plans.		
	13.	All traffic signal work shall conform to the requirements of the State of Hawaii Department of Transportation, Highway Division, Standard Plans, 2008, and the Federal Highways Administration, 'Manual on Uniform Traffic Control Devices for Streets and Highways', 2009 Edition, and Amendments.		

- 4. All conduits located beneath paved areas shall be encased in concrete. conduits located in unpaved areas shall be direct buried.
- 5. Signal faces for traffic signal system shall be covered until the signal is activated.
- 6. All traffic signal heads attached to overhead wire shall have vented backplates with one-inch retroreflective strip along its borders.
- 7. Precast foundations shall conform to Section 615-Precast Concrete Foundations of the contract special provisions of this project.
- 8. Type II object markers shall be affixed to all new temporary traffic poles (wood) conforming to the requirements of the Standard Plan TE-15, State of Hawaii Department of Transportation, Highway Division, Standard Plans, 2008.
- 9. Span Wire Signal System shall conform to "AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals," 2018.
- 20. All cable and elements for grounding shall be new.
- 21. Cables between signal faces, Opticom detectors and the nearest pullbox or temporary traffic signal pole (wood) are not called out on the plan, but shall be furnished and installed in sufficient numbers and lengths as required. Cost shall be considered incidental to various traffic signal contract items.
- 22. Conduits and cables installed on temporary traffic signal poles (wood) shall be in sufficient number as required. Cost shall be considered incidental to the installation of the span wire system.

▲ CONSTRUCTION NOTES:

- repaired by the contractor at his own cost.
- engineer for clarification.
- The contractor shall coordinate all work.
- motoring public.
- of public traffic.
- and approval.
- approval.



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL SHEET YEAR NO.		TOTAL SHEETS
HAWAII	HAW.	11N-01-19M	2019	<i>C.O.15</i>	26

1. Locations of existing structures and utilities such as pipe-lines, conduits, cables, etc., shown on plans are approximate only. It is not the intent of these plans to show the exact location of all utilities and structures. It is the responsibility of the contractor to verify the locations of all existing utilities with the respective owners. Existing utilities damaged by the contractor shall be

2. The contractor shall verify and check all dimensions and details shown on the drawings prior to the start of construction. Any discrepancy shall be immediately brought to the attention of the

3. The contractor shall notify all agencies to verify, tone and locate their existing utilities within the project area prior to excavating.

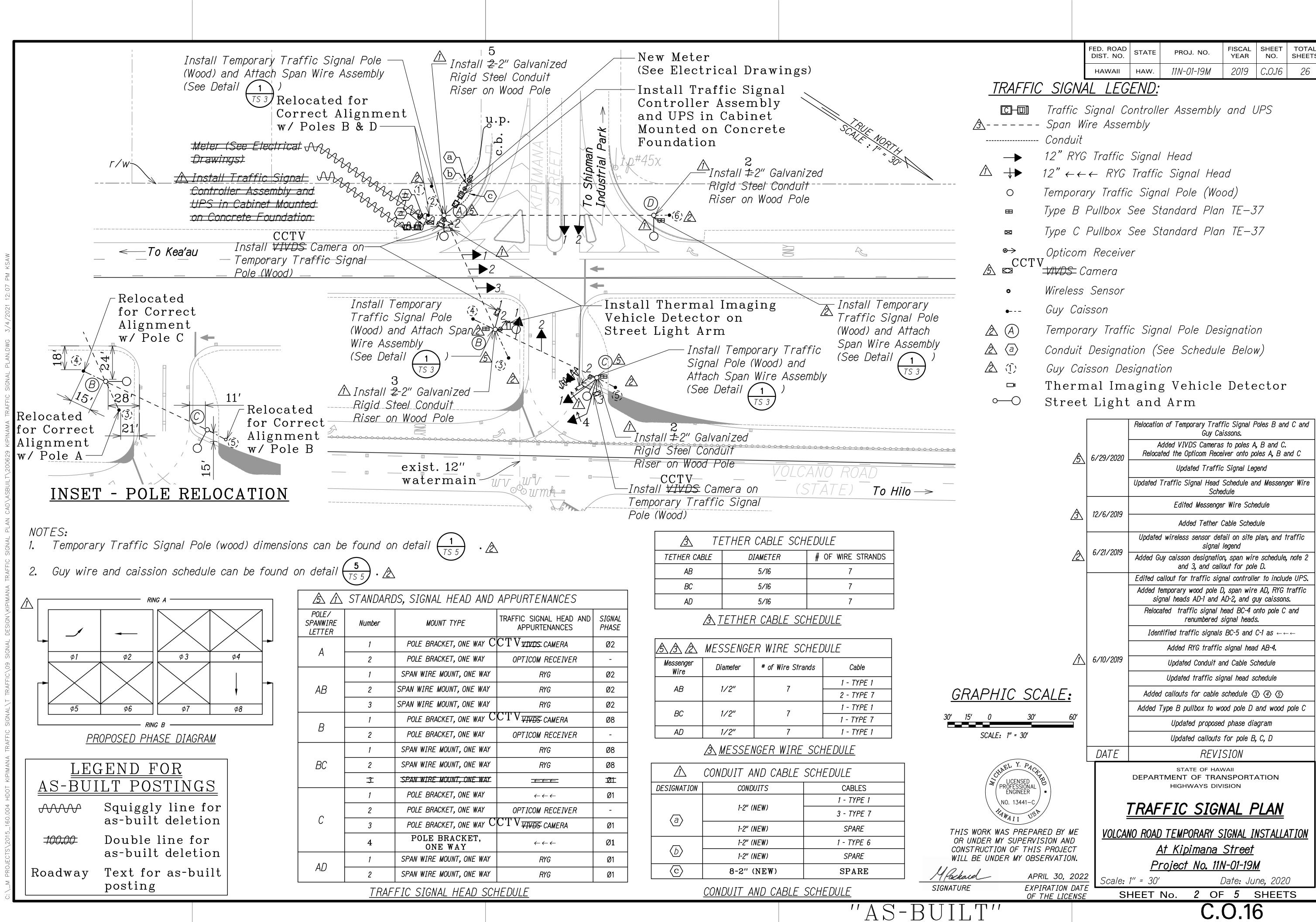
4. The locations of the new temporary traffic signal (wood) poles and guy caisson foundations shall be staked out in the field by the contractor and approval of the locations shall be obtained from the engineer prior to construction and installation.

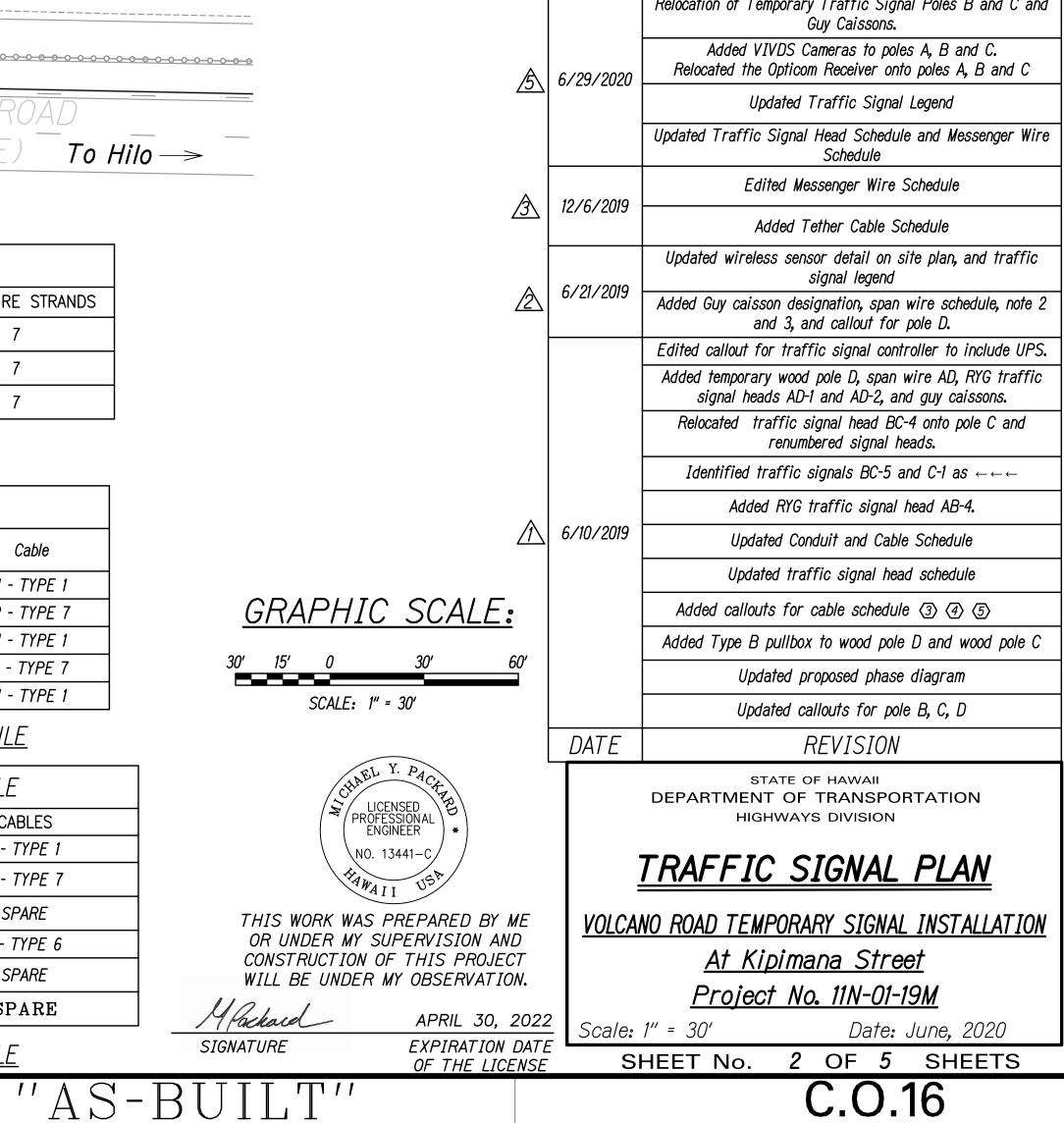
5. Maintenance of traffic through the construction area shall be in accordance with part VI of the "Manual On Uniform Traffic Control Devices for Streets and Highways, 2009 Edition", Federal Highway Administration as amended and as specified in the special provisions. The contractor shall furnish and maintain adequate barricades, blinkers, construction signs, etc., for the safety of the

6. At the end of each day's work, the contractor shall remove all equipment and other obstruction to permit free and safe passage

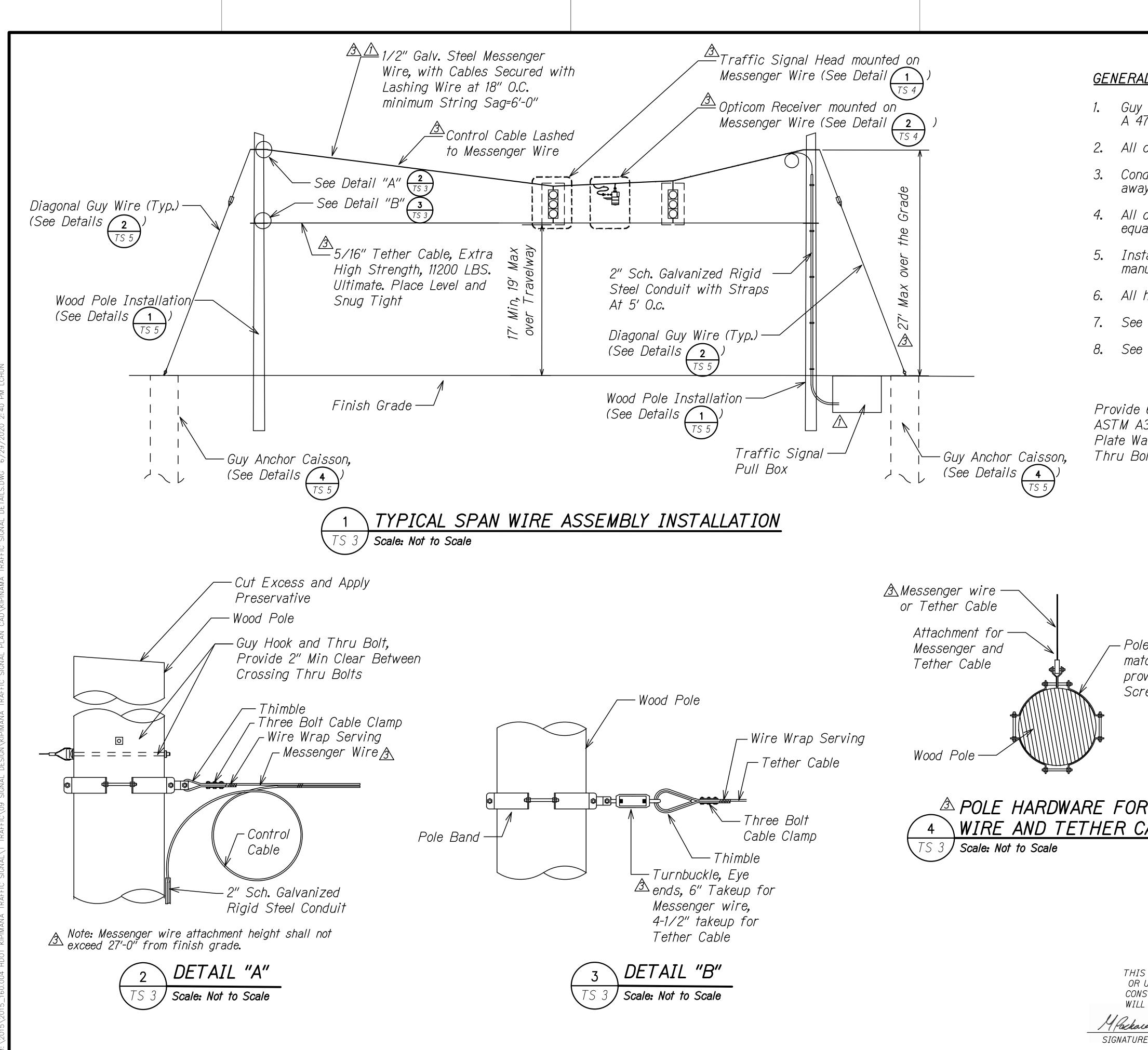
7. The contractor shall submit product data for guy wires, messenger, and tether cables, cable fittings, and hardware for engineer review

8. No signage, signals, or other appurtenances shall be added beyond what is shown in the drawings without engineer review and

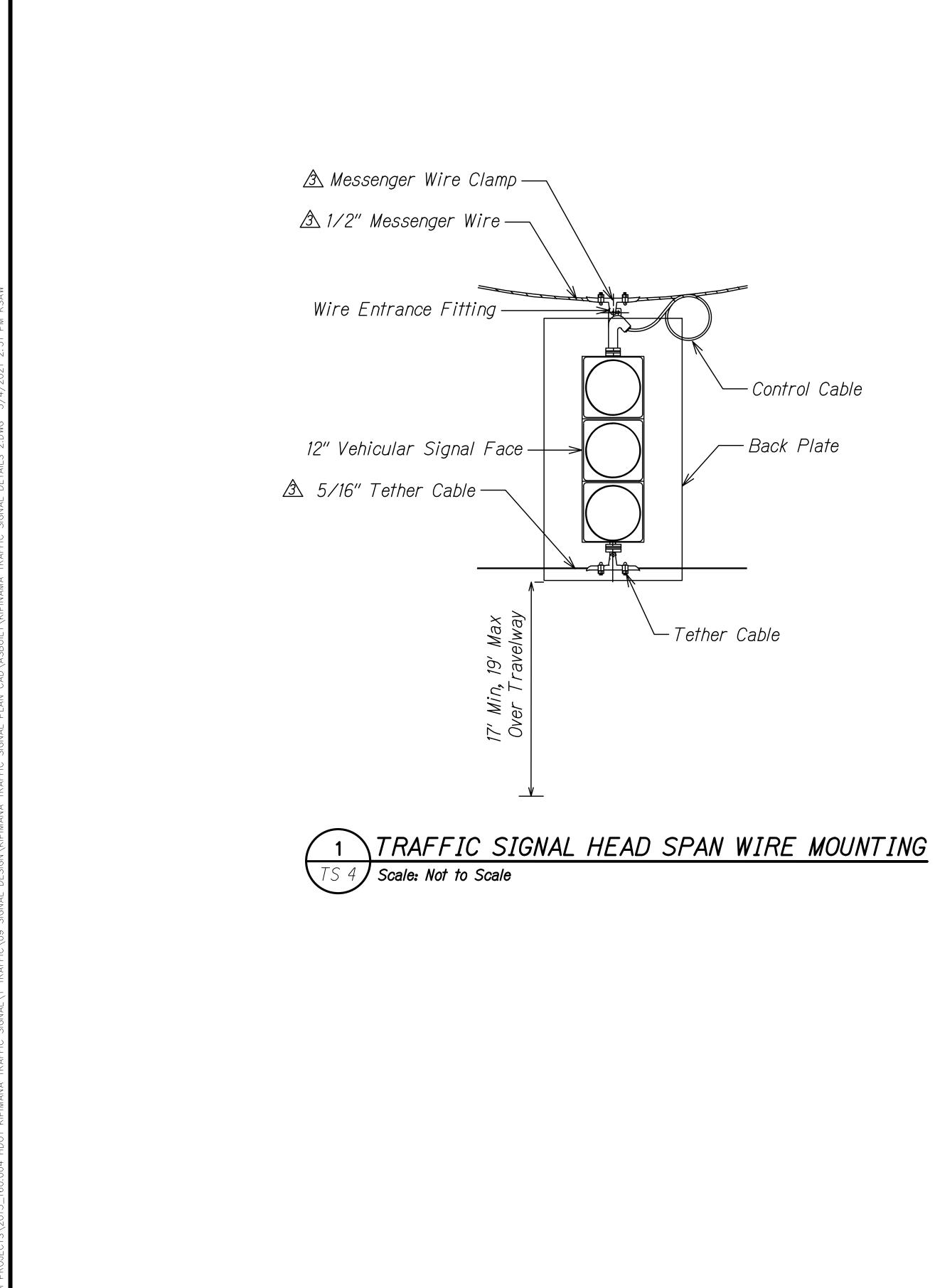




	FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS		
	HAWAII	HAW.	11N-01-19M	2019	C.O.16	26		
TRAFFIC SIGNAL LEGEND:								
C-D Traf								
	<u>A</u> Span Wire Assembly							
Cone								
Δ	_→ 12" RYG Traffic Signal Head							
$\Delta \rightarrow 12$ "	$\triangle \downarrow \blacktriangleright 12" \leftarrow \leftarrow RYG Traffic Signal Head$							
o Temp	Temporary Traffic Signal Pole (Wood)							
в Туре	Type B Pullbox See Standard Plan TE-37							
📼 Туре	⊠ Type C Pullbox See Standard Plan TE-37							
⊗→ Opti	com Receive	er.						
	\$− Camera							
• Wire	less Sensor							
• Guy	Caisson							
🖄 🔿 — Tem	\land A Temporary Traffic Signal Pole Designation							
🖄 🔕 Cond	duit Designat	tion (S	See Schedule	e Belov	v)			
A (1) Guy	Caisson Des	signati	ion					
□ The	ermal Ima	agina	g Vehicle	Dete	ector			
⊶O Str	eet Light	and	Arm					

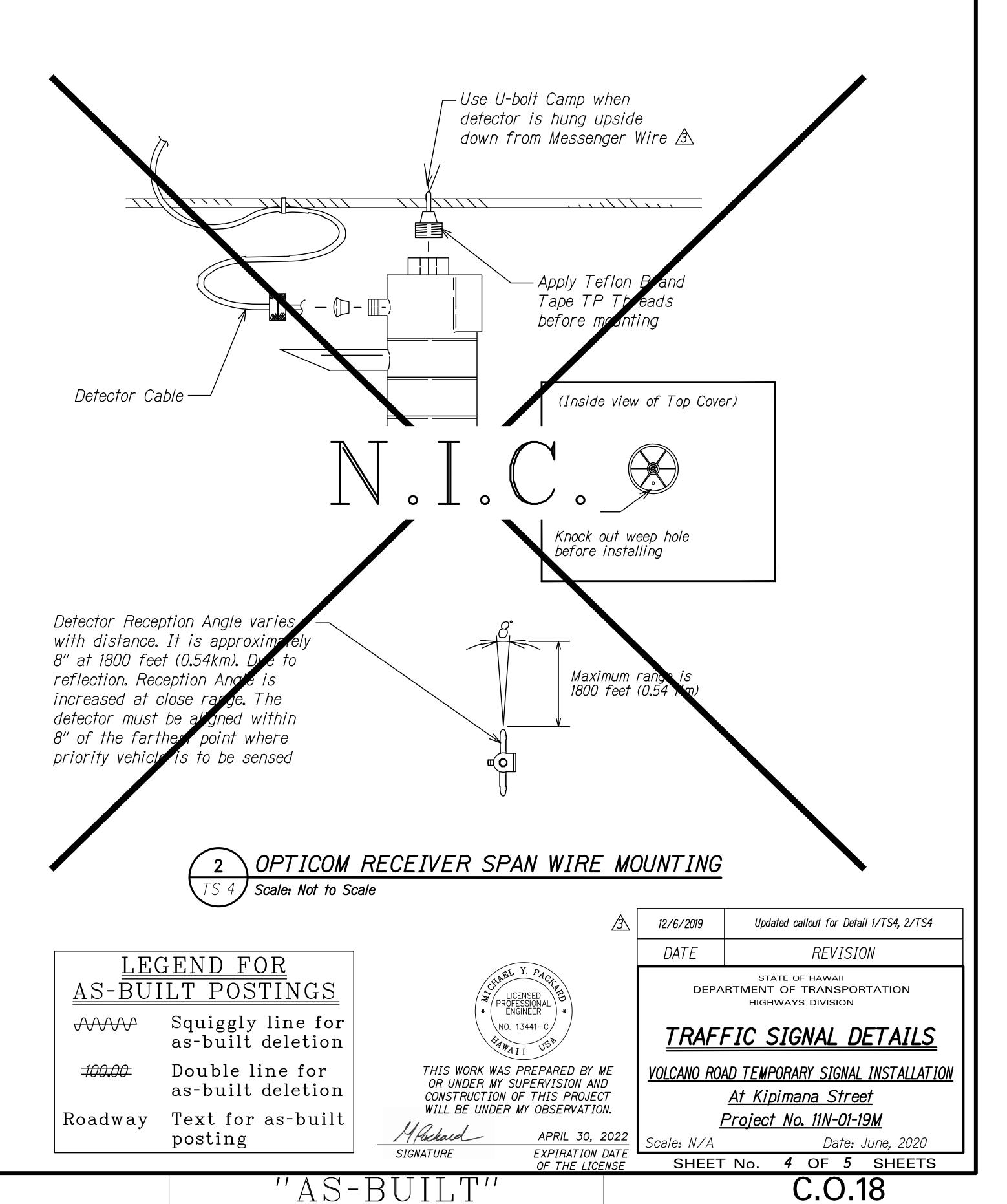


	FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS			
L NOTES:	HAWAII	HAW.	11N-01-19M	2019	<i>C.O.1</i> 7	26			
A wires, messenger wire, and tether cable shall conform to ASTM 75, Extra high strength, Class "C" Coating.									
cable fittings shall be galvanized.									
uit riser shall be mounted on the backside of the wood pole from approaching traffic.									
cable connection hardware shall have capacity greater than or In to the minimum breaking strength of attached cables.									
tallation of all hardwa nufacturer.	are shall t	De as l	recommended	t by th	е				
hardware shall be hot		•			~				
pole hardware for me	essenger i	wire al	nd tether ca	ables 🧲	4 <i>TS 3</i>				
pole hardware for gu	ıy wire	5 <i>TS 3</i>							
A 6"x6"x ¹ 2" Thk 36 Curved asher at olt (Typ.)			Provide (See Deta Guy 	ail Wireß	3 5 5)			
			requii	red for attach	GUY	40			
		Ň	Wood		110/11				
5 POLE HARDWARE FOR GUY WIRE A TS 3 Scale: Not to Scale									
e Band, Size to tch Pole Diameter, vide 4-1/2" rews 3" Long									
R MESSENGER	3 12/6/2	019	Updated callout for L	' General No Detail 1/TS3 S3, 5/TS3		9/TS3,			
ABLES	6/21/2	019		general no	te 1				
	6/10/2			1 Detail 1/T	53				
EL Y. PA	DAT	E		VISION					
CIAEL Y. PACA LICENSED PROFESSIONAL		DEPART	STATE OF HAV MENT OF TRAI HIGHWAYS DIV	NSPORT	ATION				
* ENGINEER * NO. 13441-C * MAII USP		R <u>AFF.</u>	<u>IC SIGNA</u>	<u>L DE</u>	<u>TAI</u> L	s			
S WORK WAS PREPARED BY ME UNDER MY SUPERVISION AND	VOLCAN		TEMPORARY S		NSTALLA	<u>TION</u>			
STRUCTION OF THIS PROJECT BE UNDER MY OBSERVATION.			<u>t Kipimana</u> oject No . 111		Λ				
e APRIL 30, 20 E EXPIRATION DA			•	Date: Ju	_)			
E EXPIRATION DA OF THE LICENS		HEET I			SHEET 7	S			
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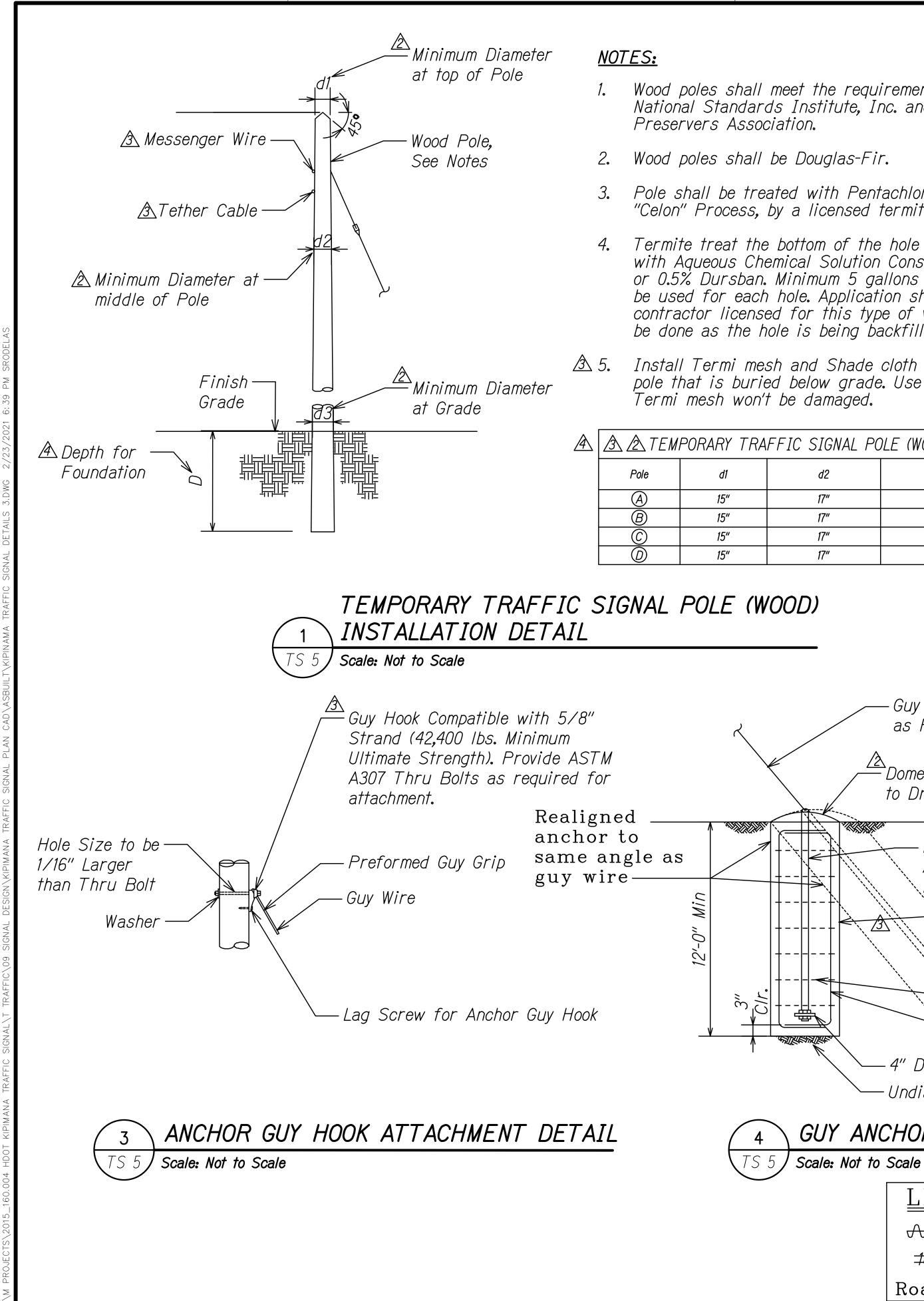


- Control Cable

– Back Plate



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11N-01-19M	2019	<i>C.O.18</i>	26



1. Wood poles shall meet the requirements of the American National Standards Institute, Inc. and the American Wood

3. Pole shall be treated with Pentachlorophenol using the "Celon" Process, by a licensed termite treatment company.

4. Termite treat the bottom of the hole and backfill material with Aqueous Chemical Solution Consisting of 0.5% Aldrin or 0.5% Dursban. Minimum 5 gallons of the solution shall be used for each hole. Application shall be performed by contractor licensed for this type of work. Treatment shall be done as the hole is being backfilled.

 \triangle 5. Install Termi mesh and Shade cloth around the bottom of pole that is buried below grade. Use suitable backfill so Termi mesh won't be damaged.

М	MPORARY TRAFFIC SIGNAL POLE (WOOD) DIMENSIONS							
	d1	d2	d3	D				
	15″	17″	19"	10' Min. to 20' Max.				
	15″	17″	19″	10' Min. to 20' Max				
	15″	17″	19″	10' Min. to 20' Max				
	15″	17″	19″	10' Min. to 20' Max				

as Required)

to Drain

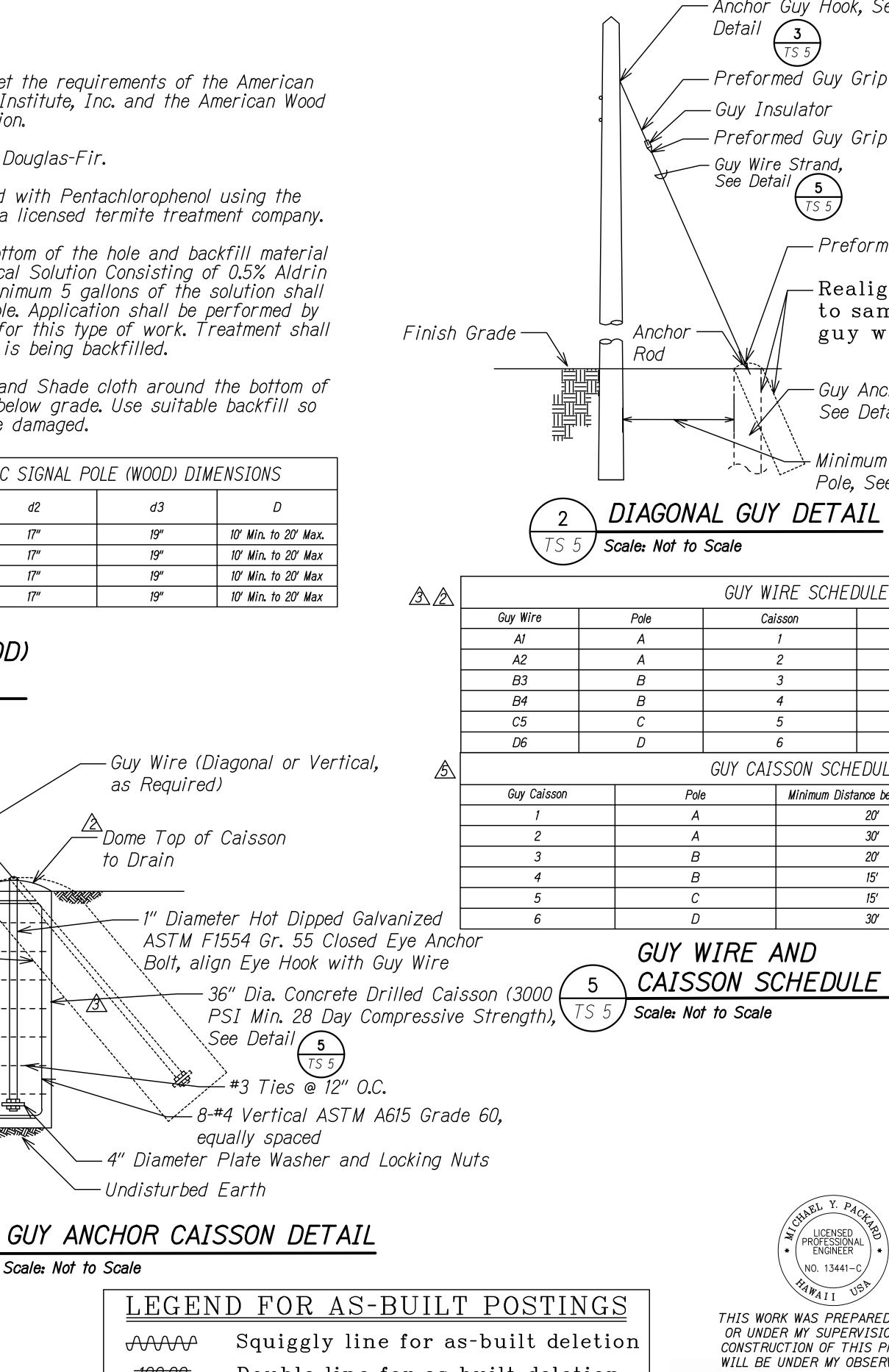
∠ Dome Top of Caisson

-Undisturbed Earth

 $\overbrace{}$

-100.00

Roadway



Double line for as-built deletion

"AS-BUII

Text for as-built posting

chor Guy Hook, See	FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
$\frac{3}{TS 5}$	HAWAII	HAW.	11N-01-19M	2019	<i>C.O.19</i>	26
reformed Guy Grip						
ly Insulator						
eformed Guy Grip						
y Wire Strand, e Detail 5 TS 5						
Preformed Guy	/ Grip					
Realigned a to same an guy wire						
Guy Anchor Ca See Detail	5					
Pole, See Detai	\sim	d				
GUY DETAIL	\smile					

Y WIRE SCHE	EDULE			
Caisson	Diameter	# of Wire Strands		
1	5/8"	7		
2	5/8"	7		
3	5/8"	7		
4	5/8"	7		
5	5/8"	7		
6	5/8"	7		
CAISSON SCI	IEDULE			
Minimum Di	stance behind the Pole	Minimum Diameter		
	20'	36″		
	30'	36"		
	20'	36"		
	15'	36"		
	15′	36″		
	30'	36"		

		00
. [
A	6/29/2020	Updated Guy Caisson Schedule
À	6/18/2020	Updated Detail 1/TS5
A	12/6/2019	Updated callout for Detail 1/TS5, 3/TS5 ,4/TS5, 5/TS5
A	6/21/2019	Added temporary traffic signal pole (wood) schedule, guy wire and caisson schedule
	0. 2.7 2010	Added callouts for pole diameter
A	C (10 (2010	Updated callout for Detail 1/TS5
	671072019	Updated callout for Detail 4/TS5
	DATE	REVISION
		STATE OF HAWAII ARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
Y ME	<u>VOLCANO RO</u>	AD TEMPORARY SIGNAL INSTALLATION
JECT		<u>At Kipimana Street</u>
TION.		Project No. 11N-01-19M
), 2022		Date: June, 2020
ON DATE ICENSE	SHEE	
		C.O.19
	 ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ AND ⇒ > > > > > > > > > ><th>Image: Second symmet and Direct Trion. 6/29/2020 Image: Second symmet and Direct Trion. 6/18/2020 Image: Second symmet and Direct Trion. 6/21/2019 Image: Second symmet and Direct Trion. 0, 2022 Image: Second symmet and Direct Trion. Scale: N/A</th>	Image: Second symmet and Direct Trion. 6/29/2020 Image: Second symmet and Direct Trion. 6/18/2020 Image: Second symmet and Direct Trion. 6/21/2019 Image: Second symmet and Direct Trion. 0, 2022 Image: Second symmet and Direct Trion. Scale: N/A

