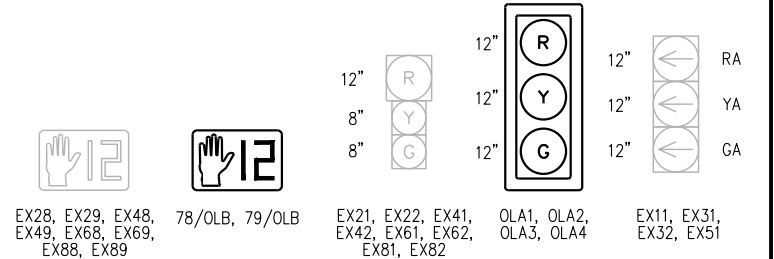


REGION NO.	STATE	FED. AID PROJECT NO.
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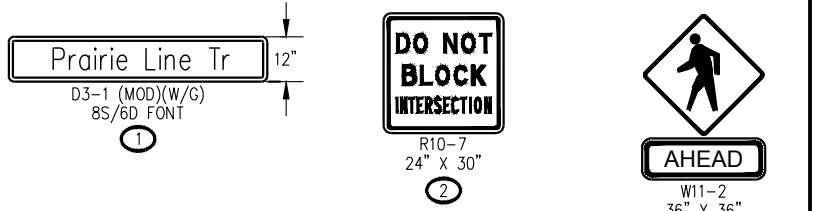
SIGNAL HEAD ASSIGNMENT



NOTES:

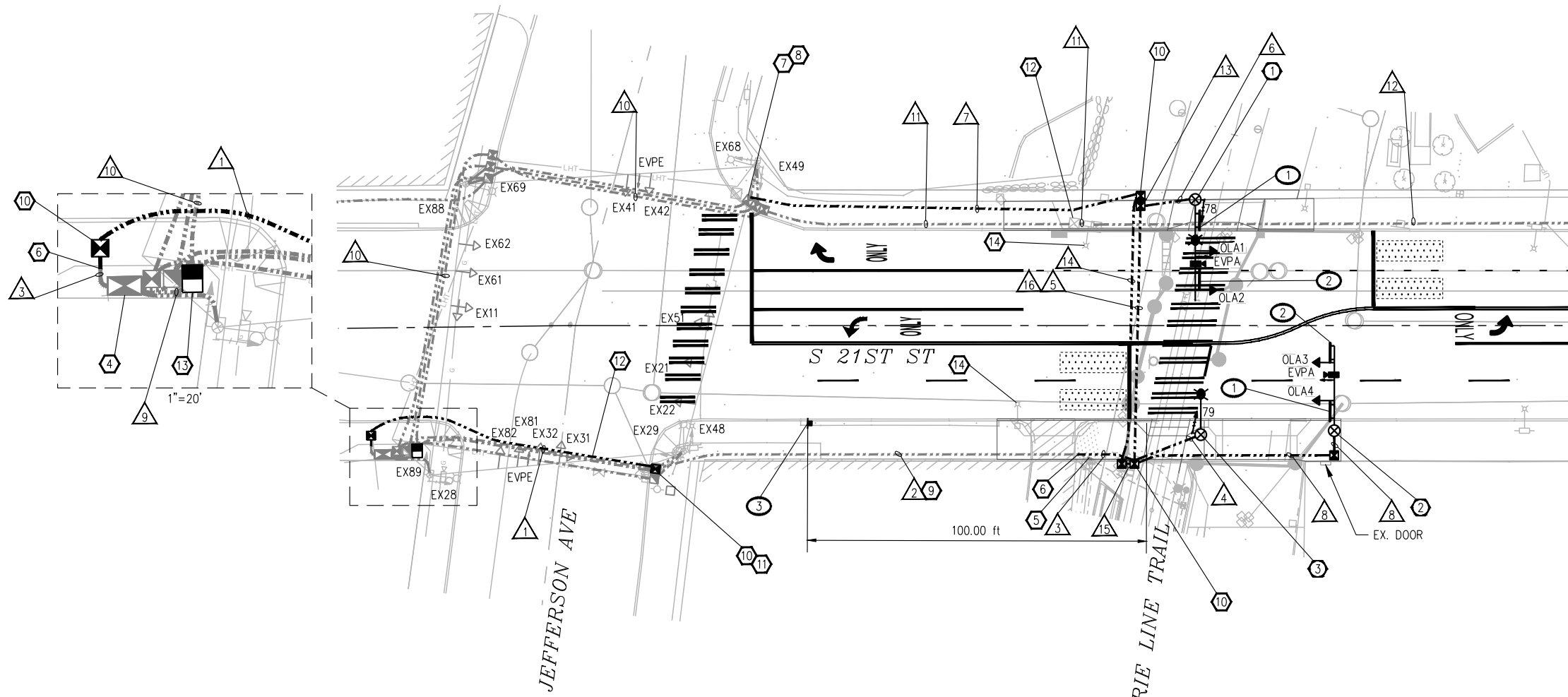
- ALL NEW VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL BE LED TYPE AND SHALL USE TUNNEL VISORS, SQUARE DOORS AND 5" BACKPLATES WITH 2" YELLOW RETROREFLECTIVE TAPE. NEW VEHICLE SIGNAL HEADS SHALL USE MOUNTING TYPE "M" ON TENONS PER WSDOT STANDARD PLAN J-75.10-02 AND TYPE "K" MOUNTS ON POLES PER WSDOT STANDARD PLAN J-75.20-00. ALL NEW PEDESTRIAN SIGNAL HEADS SHALL USE MOUNT TYPE E PER WSDOT STANDARD PLAN J-75.10-02.

SIGN LEGEND



NOTES:

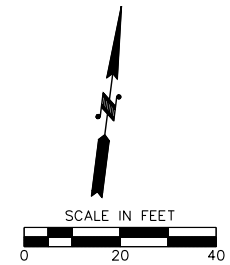
- ALL SIGNS SHALL COMPLY WITH MUTCD 2009 STANDARDS AND WA STATE SUPPLEMENT.
- ALL SIGN DIMENSIONS SHALL BE VERIFIED WITH THE ENGINEER AND MANUFACTURER PRIOR TO FABRICATION. MAST ARM MOUNTED SIGNS SHALL HAVE TYPE IX SHEETING AND SHALL BE BRACED AND INSTALLED PER WSDOT STD PLAN G-30.10-04.



LEGEND

EXISTING	NEW	DESCRIPTION
		JUNCTION BOX TYPE 1, 2 & 8
		VIRTUAL LOOP DETECTION ZONE (SHOWN FOR REFERENCE ONLY)
		VIDEO DETECTION CAMERA
		CONDUIT
		PEDESTRIAN SIGNAL HEAD
		VEHICLE SIGNAL HEAD
		SIGNAL POLE, TYPE III
		POST MOUNTED SIGN
		MAST ARM MOUNTED SIGN
		PEDESTRIAN PUSH BUTTON
		SIGNAL POLE NOTE
		CONSTRUCTION NOTE
		SIGN NOTE
		WIRE NOTE
		EVPE DETECTOR

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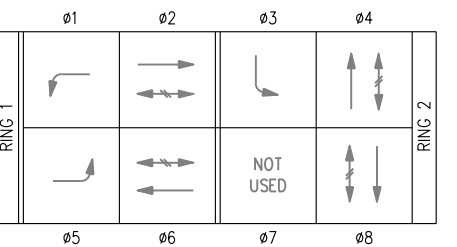


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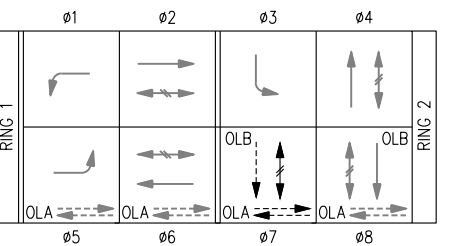
GENERAL NOTES

- SEE SHEET SG.01A FOR CONSTRUCTION NOTES AND WIRE NOTES.
- SEE SHEET SG.01D FOR VIDEO DETECTION CAMERA INSTALLATION DETAIL.
- PAVEMENT MARKINGS AND REMOVALS BY OTHERS
- PROTECT AND MAINTAIN ALL EXISTING TRAFFIC SIGNAL EQUIPMENT UNLESS NOTED OTHERWISE.
- EXISTING SIGNAL SHALL REMAIN FULLY OPERATIONAL EXCEPT DURING MODIFICATION TURN ON. WHEN A UNIFORMED POLICE OFFICER WILL BE ON SITE DIRECTING TRAFFIC.

EXISTING SIGNAL PHASE DIAGRAM



PROPOSED SIGNAL PHASE DIAGRAM*



- OLA=ø5+ø6+ø7+ø8
- OLB=ø7+ø8
- OLA SHALL REMAIN GREEN UNLESS ø7 IS ACTIVATED
- VEHICLE MOVEMENT
- ↔ PEDESTRIAN MOVEMENT
- OVERLAP MOVEMENT

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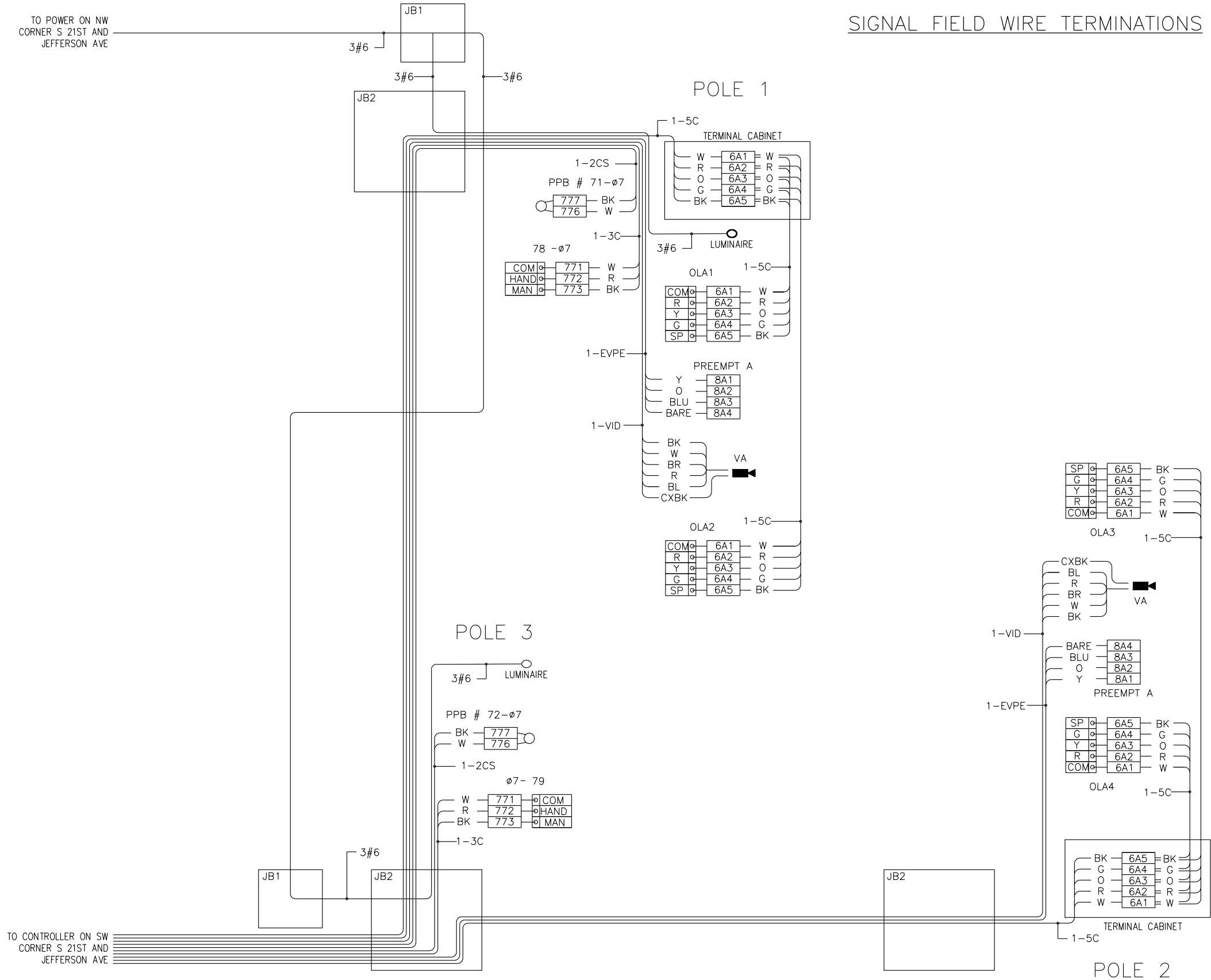
FINAL CONSTRUCTION CHECKED	DATE	SCALE
	12/22/16	AS NOTED
DESIGNED	CHECKED	
CLM	RJH	
DRAWN	PROJECT NAME	
1/26/17	15133-003	
FIELD BOOKS	DRAWING NAME	
	SIGNAL PLANS.DWG	

CITY OF TACOMA
DEPARTMENT OF PUBLIC WORKS
PRAIRIE LINE TRAIL - PHASE 2
SOUTH 21ST STREET AND PRAIRIE LINE TRAIL
TRAFFIC SIGNAL PLAN

15133-003
SHEET NO. SC.01
SHEET X OF X

REGION NO.	STATE	FED. AID PROJECT NO.
10	WASH	XXXX-XXXX (XXX)

SIGNAL FIELD WIRE TERMINATIONS



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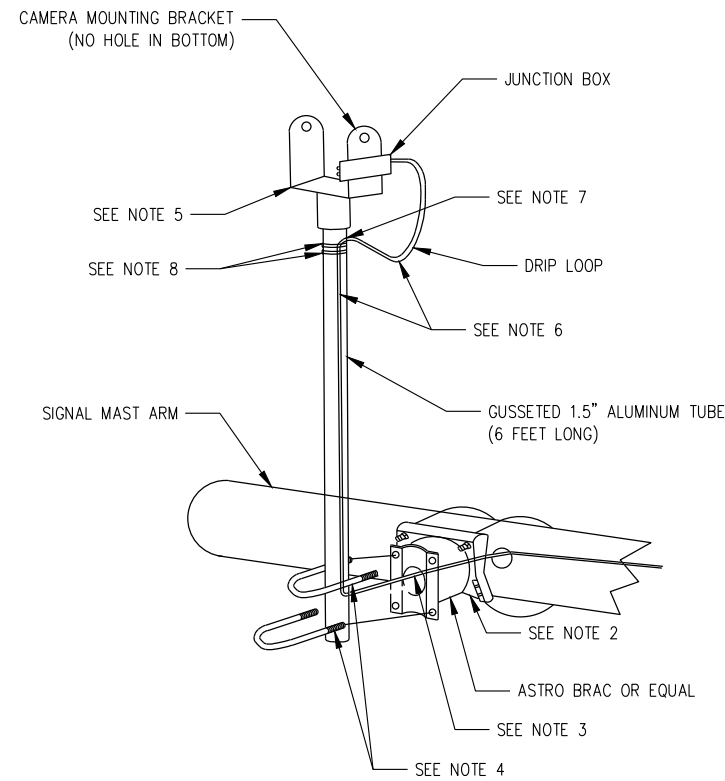
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FINAL CONSTRUCTION CHECKED	DATE	SCALE
	12/22/16	AS NOTED
DESIGNED	CHECKED	
CLM	RJH	
DRAWN	PROJECT NAME	
1/26/17	15133-003	
FIELD BOOKS	DRAWING NAME	
	SIGNAL PLANS.DWG	

CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS		15133-003 SHEET NO. SC.01B SHEET X OF X
PRAIRIE LINE TRAIL - PHASE 2 SOUTH 21ST STREET AND PRAIRIE LINE TRAIL FIELD WIRE TERMINATIONS		



REGION NO.	STATE	FED. AID PROJECT NO.
10	WASH	XXXX-XXXX (XXX)



NOTES

1. THE CONTRACTOR SHALL DRILL A 1" HOLE IN THE BACK SIDE OF THE SIGNAL MAST ARM DEBURR, & PUT A RUBBER GROMMET IN HOLE. VERIFY MOUNTING LOCATION WITH ENGINEER PRIOR TO DRILLING.
2. THE BRACKET SHALL BE INSTALLED OVER THE 1" HOLE.
3. VIDEO CABLE SHALL BE PULLED THROUGH THE SIGNAL MAST ARM THROUGH THE 1" HOLE AND THROUGH THE BRACKET.
4. BOLT 1.5" GUSSETED TUBE TO THE BRACKET.
5. ATTACH VIDEO CAMERA MOUNTING BRACKET TO THE TOP OF THE GUSSETED TUBE.
6. ROUTE VIDEO CABLE IN GUSSET TO THE INSIDE OF TUBE. EXIT TUBE AT TOP OF GUSSET AND CONNECT TO VIDEO JUNCTION BOX LEAVING A DRIP LOOP IN CABLE.
7. INSTALL VINYL INSERT IN GUSSET, LEAVING NO MORE THAN A 1" GAP AT THE TOP FOR CABLE TO EXIT THE TUBE.
8. INSTALL 2 BLACK WEATHER RATED WIRE TIES AROUND TUBE WHERE CABLES EXIT AT THE TOP OF THE VINYL INSERT.

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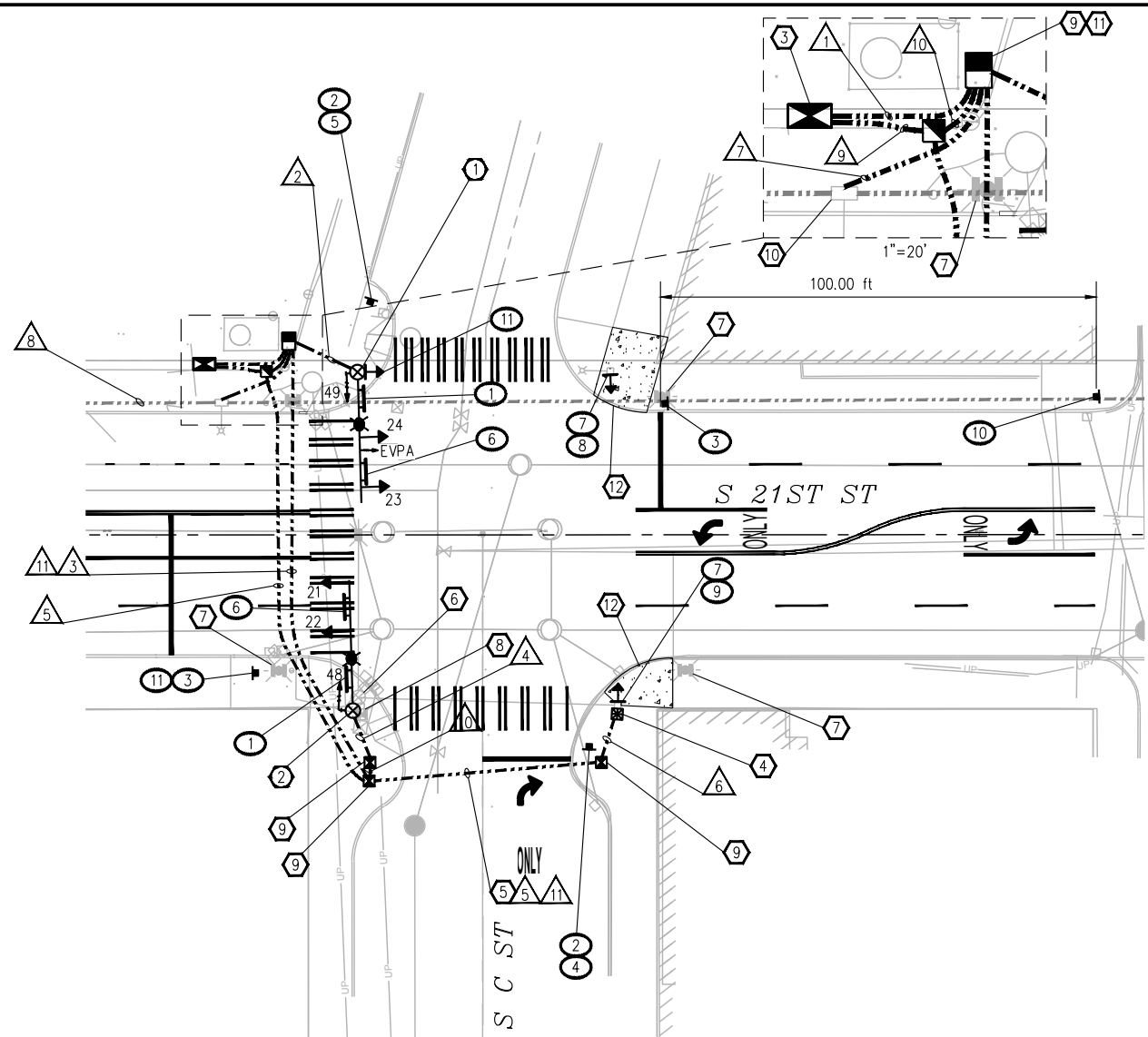
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	12/22/16	AS NOTED
DESIGNED	CHECKED	
CLM	RJH	
DATE	PROJECT NAME	
1/26/17	15133-003	
FIELD BOOKS	DRAWING NAME	
	SIGNAL PLANS.DWG	

CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS		
PRAIRIE LINE TRAIL - PHASE 2 SOUTH 21ST STREET AND PRAIRIE LINE TRAIL TRAFFIC SIGNAL DETAILS		15133-003
		SHEET NO. SG.01D
		SHEET X OF X

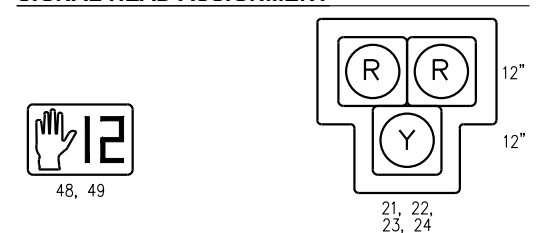
REGION NO.	STATE	FED. AID PROJECT NO.
10	WASH	XXXX-XXXX (XXX)

LEGEND

EXISTING	NEW	DESCRIPTION
		TYPE P TRAFFIC CONTROLLER CABINET
		SERVICE CABINET
		JUNCTION BOX TYPE 1, 2 & 8
		CONDUIT
		PEDESTRIAN SIGNAL HEAD
		VEHICLE SIGNAL HEAD
		SIGNAL POLE, TYPE III
		POST MOUNTED SIGN
		MAST ARM MOUNTED SIGN
		PEDESTRIAN PUSH BUTTON
		SIGNAL POLE NOTE
		CONSTRUCTION NOTE
		SIGN NOTE
		WIRE NOTE
		EVPE DETECTOR

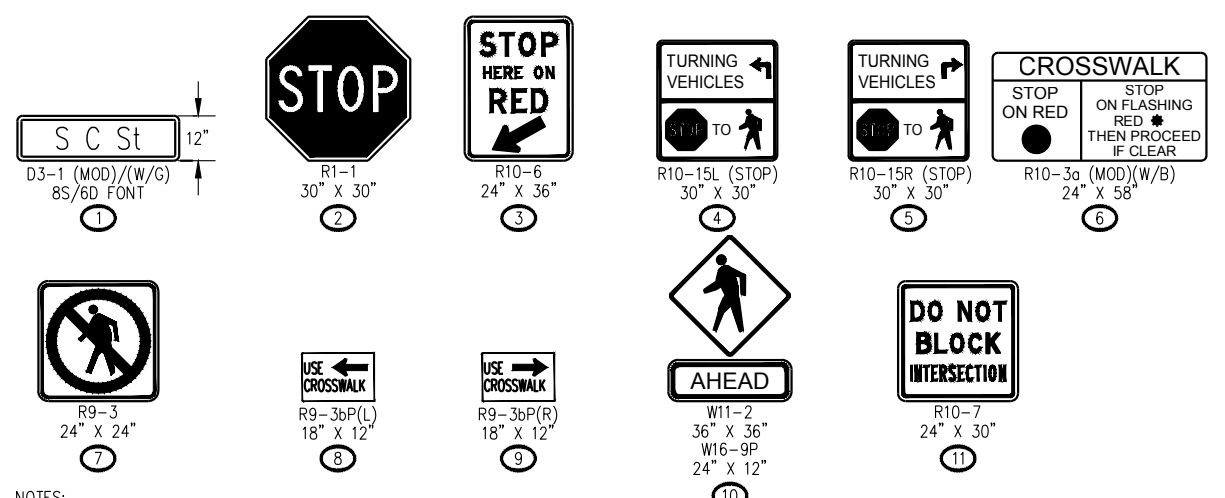


SIGNAL HEAD ASSIGNMENT



NOTES:
 1. ALL NEW VEHICLE SIGNAL HEADS SHALL BE LED TYPE AND SHALL USE TUNNEL VISORS, SQUARE DOORS AND 5" BACKPLATES WITH 2" YELLOW RETROREFLECTIVE TAPE. NEW VEHICLE SIGNAL HEADS SHALL USE MOUNTING TYPE "M" ON TENONS AND TYPE "K" MOUNTS ON POLES.

SIGN LEGEND

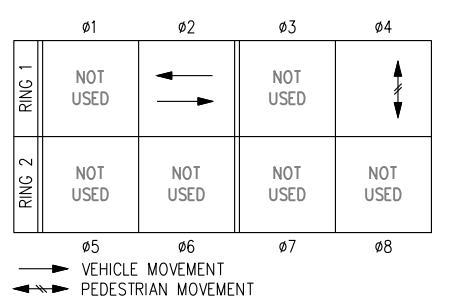


NOTES:
 1. ALL SIGNS SHALL COMPLY WITH MUTCD 2009 STANDARDS AND WASHINGTON MODIFICATIONS.
 2. ALL SIGN DIMENSIONS SHALL BE VERIFIED WITH THE ENGINEER AND MANUFACTURER PRIOR TO FABRICATION.
 3. MASTARM MOUNTED SIGNS SHALL HAVE TYPE IX SHEETING AND SHALL BE BRACED AND INSTALLED PER WSDOT STD PLAN G-30.10-04.
 4. (W/B) = WHITE LETTERING ON BLACK BACKGROUND

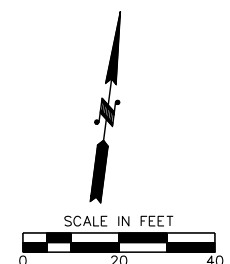
GENERAL NOTES

- SEE SHEET SG.02A FOR CONSTRUCTION AND WIRE NOTES.
- PAVEMENT MARKING AND REMOVALS BY OTHERS.

PROPOSED SIGNAL PHASE DIAGRAM



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	90% REVIEW SUBMITTAL		CONSTRUCTION DIVISION						

△ WIRE NOTES

RUN NO	CONDUIT SIZE	EXISTING CONDUCTORS	VEHICLE HEAD (5C)	PED HEAD (3C)	PPB (1-2CS)	1-EVPE	SERVICE #6	STREETLIGHT #6	GROUND #6	288 SMFO CABLE	12 SMFO CABLE	REMARKS
1	3" PVC		4	2	2	1					1	
2	EX 2" PVC		2	1	1	1		2	1			
3	2" PVC		2	1	1							
4	2" PVC		2	1	1			2	1			
5	3" PVC						3	2	1			
6	2" PVC						3	2	1			
7	2" PVC									1		
8	EX AERIAL	6PR #19 INTERCONNECT								1		
9	2" PVC						3					
10	2" PVC							2	1			
11	3" PVC											SPARE

NOTE: ALL EMPTY CONDUIT SHALL HAVE TRACEABLE PULL WIRE.

CONSTRUCTION NOTES

- ① FURNISH AND INSTALL TYPE III SIGNAL POLE AND FOUNDATION WITH LUMINAIRE. FURNISH AND INSTALL COUNTDOWN PEDESTRIAN HEAD, TERMINAL CABINET AND APS PEDESTRIAN PUSH BUTTON ON POLE. FURNISH AND INSTALL MAST ARM WITH TWO VEHICLE SIGNAL HEADS, CROSSWALK SIGN AND STREET NAME SIGN. SEE POLE SCHEDULE ON SHEET SG.02C.
- ② FURNISH AND INSTALL TYPE III SIGNAL POLE AND FOUNDATION WITH LUMINAIRE. FURNISH AND INSTALL COUNTDOWN PEDESTRIAN HEAD, TERMINAL CABINET AND APS PEDESTRIAN PUSH BUTTON ON POLE. FURNISH AND INSTALL MAST ARM WITH TWO VEHICLE SIGNAL HEADS, CROSSWALK SIGN AND STREET NAME SIGN. SEE POLE SCHEDULE ON SHEET SG.02C.
- ③ CONSTRUCT TRAFFIC CONTROLLER FOUNDATION. FURNISH AND INSTALL NEW FULLY-EQUIPPED TYPE P CONTROLLER CABINET, ALL ASSOCIATED EQUIPMENT AND CONNECT ALL FIELD WIRING. FURNISH AND INSTALL FIBER OPTIC PATCH PANEL, ETHERNET SWITCH, AND FIBER OPTIC JUMPERS. FIBER OPTIC ASSIGNMENTS TO BE PROVIDED BY ENGINEER. COORDINATE DELIVERY, TESTING AND INSTALLATION WITH THE CITY OF TACOMA TRAFFIC SIGNAL SHOP. SEE CITY OF TACOMA STANDARD PLAN TS-10. LABEL ALL WIRING. SEE SPECIAL PROVISIONS.
- ④ INSTALL SERVICE CABINET ON POWER POLE PER TACOMA POWER REQUIREMENTS. RUN CONDUIT AND FEEDER WIRES UP POWER POLE TO SERVICE CABINET USING GALVANIZED RISER BRACKETS PER TACOMA STANDARD PLAN TS-05. COORDINATE WITH TACOMA POWER FOR SERVICE AND CONNECTION.
- ⑤ DIRECTIONAL BORE ROAD CROSSING ACROSS C ST.
- ⑥ REMOVE AND SALVAGE EXISTING POLE AND ALL ATTACHED EQUIPMENT. REMOVE AND DISPOSE OF EXISTING FOUNDATION PER STANDARD SPECIFICATIONS. RESTORE SURFACE TO MATCH EXISTING.
- ⑦ REMOVE AND SALVAGE EXISTING PEDESTRIAN BEACON POLE. REMOVE AND DISPOSE OF EXISTING FOUNDATION PER STANDARD SPECIFICATIONS. RESTORE SURFACE TO MATCH EXISTING.
- ⑧ REMOVE AND DISPOSE OF EXISTING JUNCTION BOX. RESTORE SURFACE TO MATCH EXISTING.
- ⑨ FURNISH AND INSTALL JUNCTION BOX AS SHOWN.
- ⑩ INSTALL CONDUIT RISER AND INSTALL FIBER OPTIC CABLE IN RISER TO EXISTING AERIAL LINE.
- ⑪ FURNISH AND INSTALL FIBER OPTIC SPLICE ENCLOSURE AND FUSION SPLICE 12 SMFO CABLE TO 288 SMFO TRUNK CABLE, ASSIGNMENTS TO BE PROVIDED BY CITY ENGINEER.
- ⑫ SAWCUT AND REMOVE EXISTING PEDESTRIAN ACCESS RAMP TO NEAREST JOINT. CONSTRUCT CURB AND GUTTER TO MATCH EXISTING. CONSTRUCT SIDEWALK TO MATCH EXISTING. PROTECT IN PLACE ADJACENT PEDESTRIAN ACCESS RAMP. IF ADJACENT RAMP IS DAMAGED, CONTRACTOR SHALL REPLACE WITH ADA COMPLIANT RAMP AT THEIR EXPENSE. PROTECT IN PLACE EXISTING UTILITY POLE.

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	SIGNAL PLANS.DWG	

CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS		15133-003 SHEET NO. SG.02A
PRAIRIE LINE TRAIL - PHASE 2 SOUTH 21ST STREET AND SOUTH C STREET WIRE & CONSTRUCTION NOTES		
CONSTRUCTION DIVISION		SHEET X OF X

