



**CITY OF TACOMA**  
**Public Work Engineering Division**

**ADDENDUM NO.1**

**DATE: 11/2/2020**

**REVISIONS TO:**  
**Request for Bids Specification No. PW20-0231F**  
**East Portland Avenue Improvements**

**NOTICE TO ALL BIDDERS:**

This addendum is issued to clarify, revise, add to or delete from, the original specification documents for the above project. This addendum, as integrated with the original specification documents, shall form the specification documents. The noted revisions shall take precedence over previously issued specification documents and shall become part of this contract.

**REVISIONS TO THE SUBMITTAL DEADLINE:**

The submittal deadline has been changed to 11:00 a.m., Pacific Time, Tuesday, November 17, 2020.

**REVISIONS TO THE PROPOSAL PAGES:**

Remove the Bid Proposal in its entirety and replace with Bid Proposal labeled Addendum #1.

**REVISIONS TO THE GENERAL INFORMATION:**

Q: The DBE goal listed under 1-07.11 calls for 6%, however, item #8 in the Special Reminder to all Bidders calls for 3%. Please clarify.

A: The UDBE Goal for this project is 6%. See revised Special Reminder to Bidders labeled Addendum #1.

Q: Page 2 of 9 says Part 3 at the top of the page; this should actually read Part 1 according to Page 1 of 9 of the Bid Proposal. Page 2 of 9 says Schedule A2 at the top of the page; this should actually read Schedule A1 according to Page 1 of 9 of the Bid Proposal

A: Please see attached Bid proposal labeled Addendum #1.

Q: There is an advanced registration required to attend the public bid opening for the above referenced project bidding on 11/10. The link provided in the RFB, when you click on it, takes you to a registration for a virtual bid opening on 11/3. Can you look into this and let us know if this is the correct link?

A: A new webinar link will be issued shortly for a virtual bid opening on 11/17.

Q: Drawing TS19, there is a Note just above the Wire Schedule that says "See E 38th Street & Portland Avenue Intersection Improvements for details on streetlighting, channelization, sidewalk, curb ramps, and curbing". There does not appear to be any details provided in this plan set. Could you please provide?

A: Please see sheet TS32 in the plans

## **REVISIONS TO THE SPECIAL PROVISIONS:**

### **Revision #1**

Replace section 9-29.13 Control Cabinet Assemblies in its entirety and replace with the following attached labeled Addendum #1.

### **Revision #2**

Replace section 9-29.18 Vehicle Detector in its entirety and replace with the following attached labeled Addendum #1.

### **Revision #3**

Replace section 1-10.3(3)C Portable Changeable Message Sign in its entirety and replace with the following attached labeled Addendum #1.

### **Revision #4**

Delete section 1-10.3(2)G Emergency Communication Plan and the Measurement and Payment section related to the Emergency Communication Plan in its entirety.

## **REVISIONS TO THE PLANS:**

### **Revision #1**

Replace plan sheet TS31 in its entirety and replace with the following attached labeled Addendum #1.

### **Revision #2**

Replace plan sheet TS32 in its entirety and replace with the following attached labeled Addendum #1.

### **Revision #3**

Information regarding the NW corner of 56<sup>th</sup> and Portland Ave, Plan sheet TS07.

Work at the NW corner of 56<sup>th</sup> and Portland shall not commence until case number 20- 2-07230-9 has been closed, closure of this case is anticipated to be October 2021. The work on the SW, NE, & SE corners of 56<sup>th</sup> & Portland Ave. may be constructed prior to

the closure of Case No. 20-2-07230-9 provided ADA accessibility is maintained at all times throughout construction.

### **QUESTIONS AND ANSWERS:**

**Question 1:** In the bid proposal form, Schedule A2, Roadway, there are no bid items for Survey and Traffic Control. Where is the work for these two items paid for?

Answer 1: This will be paid under the lump sum section.

**Question 2:** Also specials page 142, lines 43 - 51, and page 143, lines 1 - 31, printed out incorrectly making it hard to read and understand the requirements. Can this be corrected please?

Answer 2: Already answered in the addendum.

**Question 3:** The E Portland Ave project is showing that the contractor is supposed to install 4 new APS buttons and leave 4 existing older APS buttons at the intersection of 72<sup>nd</sup> & E Portland Ave. The problem is that the other existing APS buttons appear to be the older Polara EN2 buttons and they are not compatible with the newer iNS2 button controller. So, we would either need to add a second Polara iCCU into the signal cabinet or replace all buttons in the intersection to the newer iNS2 buttons. I am just wondering how we should proceed?

Answer 3: The 4 buttons of the outdated system should be replaced with the current model. Polara system to operate the signal. The buttons need to be of the same system so that they communicate with each other properly.

NOTE: Acknowledge receipt of this addendum by initialing the corresponding space as indicated on the signature page. Vendors who have already submitted their bid/proposal may contact the Purchasing Division at 253-502-8468 and request return of their bid/proposal for acknowledgment and re-submittal. Or, a letter acknowledging receipt of this addendum may be submitted in an envelope marked Request for Bids Specification No. PW20-0231F Addendum No. 1. The City reserves the right to reject any and all bids, including, in certain circumstances, for failure to appropriately acknowledge this addendum.

cc: Darius Thompson, Public Works Engineering

## **SPECIAL REMINDER TO ALL BIDDERS**

**HEALTH & SAFETY:** Be sure to comply with all City of Tacoma health and safety requirements.

1. This project has been deemed to be an essential project by the City of Tacoma and it is anticipated that the contract will be operational during the COVID-19 outbreak. Therefore the contractor shall complete a health and safety plan describing how the contractor will complete the work while combating the COVID-19 spread (social distancing practices) and what Personal Protective Equipment (PPE) will be in place.

**PLEASE NOTE:** Be sure you have complied with all specifications and requirements and have signed all required documents.

**YOUR ATTENTION IS PARTICULARLY CALLED** to the following forms, which must be executed in full before the bid is submitted:

1. **BID PROPOSAL**: The unit prices bid must be shown in the space provided. Check your computations for omissions and errors.
2. **BID PROPOSAL SIGNATURE SHEET**: To be filled in and executed by a duly authorized officer or representative of the bidding entity. If the bidder is a subsidiary or doing business on behalf of another entity, so state, and provide the firm name under which business is hereby transacted.
3. **BID BOND**: The Bid Bond must be executed by the person legally authorized to sign the bid, and must be properly signed by the representatives of the surety company unless the bid is accompanied by a certified check. If Bid Bond is furnished, the form furnished by the City must be followed; no variations from the language thereof will be accepted. The amount of the Bid Bond must be not less than 5% of the total amount bid.
4. **NON-COLLUSION DECLARATION**: Must be returned by the bidder and included with the submittal.

**FAILURE TO RETURN THE AFOREMENTIONED NON-COLLUSION DECLARATION AND TO SUBMIT SAID DECLARATION WITH THE BID SHALL BE DUE CAUSE FOR REJECTION OF BID.**

5. **CERTIFICATION OF COMPLIANCE WITH WAGE PAYMENT STATUTES**: Bidder shall complete this form in its entirety to ensure compliance with state legislation (SHB 2017).
6. **STATE RESPONSIBILITY AND RECIPROCAL BID PREFERENCE INFORMATION**: Bidder shall complete this form in its entirety to ensure compliance with state legislation (SHB 2010).
7. **LIST OF SUBCONTRACTOR CATEGORIES OF WORK**: Bidder shall list all subcontractor(s) proposed to perform the work of heating, ventilation and air conditioning, plumbing, as described in Chapter 18.106 RCW, and electrical as described in Chapter 19.28 RCW.

8. **UDBE UTILIZATION CERTIFICATE:** For federal purposes, DBEs proposed to be used on this project shall be shown as a DBE listed in the current Office of Minority and Women's Business Enterprises (OMWBE) Directory, or who can produce written proof from OMWBE showing they were certified as a DBE as of the date fixed for opening bids. When DBE goals are established failure to submit this form will render the proposal as non-responsive. The federal DBE goal for this project is **six** percent (**6%**).
9. **ACKNOWLEDGEMENT:** Must be signed by the bidder and be subscribed and sworn to before a Notary Public. Be sure all parties whose signatures are legally necessary have signed, whether the bidder be an individual, partnership or corporation.

**POST AWARD FORMS EXECUTED UPON AWARD:**

- A. **CONTRACT:** Must be executed by the successful bidder.
- B. **PAYMENT BOND TO THE CITY OF TACOMA:** Must be executed by the successful bidder and his/her surety company.
- C. **PERFORMANCE BOND TO THE CITY OF TACOMA:** Must be executed by the successful bidder and his/her surety company.
- D. **CERTIFICATE OF INSURANCE:** Shall be submitted with all required endorsements.
- E. **GENERAL RELEASE.**

**CODE OF ETHICS:** The successful bidder agrees that its violation of the City's Code of Ethics contained in TMC Chapter 1.46 shall constitute a breach of the contract subjecting the contract to termination.

# **B I D P R O P O S A L**

SPECIFICATION NO. PW20-0231F

East Portland Avenue Improvements

The undersigned hereby certifies that he/she has examined the location and construction details of work as outlined on the Plans and Specifications for Project No. PWK-G0022 and has read and thoroughly understands the Plans and Specifications and contract governing the work embraced in this improvement and the method by which payment will be made for said work, and hereby proposes to undertake and complete the work embraced in this improvement in accordance with said Plans, Specifications and contract and at the following schedule of rates and prices.

**NOTE:**

1. Unit prices of all items, all extensions and total amount of bid should be shown. Show unit prices in figures only.
2. The notations below the item numbers refer to the specification section where information may be found regarding each contract item. These notations are intended only as a guide and are not warranted to refer to all specification sections where information may be found.

All bid items are sorted in the following groups:

**Part 1: E Portland Avenue Safety Improvements**

**Schedule A1: Roadway, Bid Items R1 – R26**

**Schedule B1: Lump Sum, Bid Items L1 – L20**

**Part 2: E 38th Street & Portland Avenue Intersection Improvements**

**Schedule A2: Roadway, Bid Items R1 – R18**

**Schedule B2: Lump Sum, Bid Items L1 – L13**

Bidder Name: \_\_\_\_\_

Specification No. PW20-0231F

**Addendum #1****Part 1: E Portland Avenue Safety Improvements****Schedule A1: Roadway, Bid Items R1 – R26**

<u>ITEM NO.</u>	<u>ITEM DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL AMOUNT</u>
R1 1-7	Training	400 HR	\$ _____	\$ _____
R2 2-03	Roadway Excavation, Incl. Haul	252 CY	\$ _____	\$ _____
R3 2-03	Gravel Borrow, Incl. Haul	23 CY	\$ _____	\$ _____
R4 2-14	Remove Existing Pavement, Type 1, Class A8	582 SY	\$ _____	\$ _____
R5 2-14	Remove Existing Pavement, Type 1, Class C6	254 SY	\$ _____	\$ _____
R6 2-15	Remove Curb and Gutter	163 LF	\$ _____	\$ _____
R7 4-04	Crushed Surfacing Top Course	74 TN	\$ _____	\$ _____
R8 4-04	Crushed Surfacing Base Course	379 TN	\$ _____	\$ _____
R9 5-04	HMA Cl. 1/2" PG 58H-22	11 TN	\$ _____	\$ _____
R10 5-04	HMA Cl. 1/2" PG 58V-22	386 TN	\$ _____	\$ _____
R11 5-04	HMA for Preleveling Cl. 1/2" PG 58V-22	73 TN	\$ _____	\$ _____
R12 5-04	Planing Bituminous Pavement	1266 SY	\$ _____	\$ _____
R13 8-01	Seeding and Fertilizing by Hand	7 SY	\$ _____	\$ _____
R14 8-02	Topsoil Type C	8 CY	\$ _____	\$ _____
R15 8-02	Bark Mulch	3 CY	\$ _____	\$ _____

Bidder Name: \_\_\_\_\_

Specification No. PW20-0231F

**Addendum #1**

R16 8-04	Cement Conc. Traffic Curb and Gutter	163 LF	\$ _____	\$ _____
R17 8-04	Cement Conc. Traffic Curb	364 LF	\$ _____	\$ _____
R18 8-04	Cement Conc. Pedestrian Curb	227 LF	\$ _____	\$ _____
R19 8-13	Poured Monument	1 EA	\$ _____	\$ _____
R20 8-14	Cement Conc. Sidewalk	121 SY	\$ _____	\$ _____
R21 8-14	Cement Conc. Parallel Curb Ramp Type A	4 EA	\$ _____	\$ _____
R22 8-14	Detectable Warning Surface	206 SF	\$ _____	\$ _____
R23 8-22	Removing Paint Line	1336 LF	\$ _____	\$ _____
R24 8-22	Paint Line	1921 LF	\$ _____	\$ _____
R25 8-22	Plastic Stop Line	150 LF	\$ _____	\$ _____
R26 8-22	Plastic Crosswalk Line	1180 SF	\$ _____	\$ _____
<b>Roadway Base Bid Total (Bid Items No. R1 – R26)</b>			<b>\$ _____(1)</b>	

Bidder Name: \_\_\_\_\_

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**Addendum #1****Schedule B1: Lump Sum, Bid Items L1 – L20**

<u>ITEM NO.</u>	<u>ITEM DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL AMOUNT</u>
L1 1-05	Contractor Survey -Roadway	1 LS	Lump Sum	\$_____
L2 1-05	Record Drawings	1 LS	Lump Sum \$500 Min	\$_____
L3 1-07	Spill Prevention Control and Countermeasures (SPCC) Plan	1 LS	Lump Sum	\$_____
L4 1-09	Mobilization	1 LS	Lump Sum	\$_____
L5 1-10	Project Temporary Traffic Control	1 LS	Lump Sum	\$_____
L6 2-01	Clearing and Grubbing	1 LS	Lump Sum	\$_____
L7 2-02	Removal of Structures and Obstructions	1 LS	Lump Sum	\$_____
L8 2-03	Subgrade Maintenance and Protection	1 LS	Lump Sum	\$_____
L9 8-01	Erosion/Water Pollution Control	1 LS	Lump Sum	\$_____
L10 8-20	Traffic Signal System - Portland Ave. & E 72nd St.	1 LS	Lump Sum	\$_____
L11 8-20	Traffic Signal System - Portland Ave. & E 64th St.	1 LS	Lump Sum	\$_____
L12 8-20	Traffic Signal System - Portland Ave. & E 56th St.	1 LS	Lump Sum	\$_____
L13 8-20	Traffic Signal System - Portland Ave. & E 48th St.	1 LS	Lump Sum	\$_____
L14 8-20	Traffic Signal System - Portland Ave. & E 44th St.	1 LS	Lump Sum	\$_____
L15 8-20	Traffic Signal System - Portland Ave. & E 40th St.	1 LS	Lump Sum	\$_____
L16 8-20	Traffic Signal System - Portland Ave. & E 38th St.	1 LS	Lump Sum	\$_____

Bidder Name: \_\_\_\_\_

Specification No. PW20-0231F

**Addendum #1**

L17 8-20	Traffic Signal System - Portland Ave. & E Fairbanks St.	1 LS	Lump Sum	\$ _____
L18 8-20	Traffic Signal System - Portland Ave. & E 32nd St.	1 LS	Lump Sum	\$ _____
L19 8-20	Traffic Signal System - Portland Ave. & E 31st St.	1 LS	Lump Sum	\$ _____
L20 8-20	Traffic Signal System - Portland Ave. & E Puyallup Ave.	1 LS	Lump Sum	\$ _____
<b>Lump Sum Base Bid Subtotal (Bid Items No. L1 – L20)</b>				<b>\$ _____(2)</b>

<b>Part 1</b> <b>TOTAL BASE BID (1) + (2)</b> <b>(Not Including Sales Tax)</b>	<b>\$ _____(3)</b>
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**Addendum #1****Part 2: E 38th Street & Portland Avenue Intersection Improvements****Schedule A2: Roadway, Bid Items R1 – R18**

<u>ITEM NO.</u>	<u>ITEM DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL AMOUNT</u>
R1 2-03	Roadway Excavation, Incl. Haul	10 CY	\$ _____	\$ _____
R2 2-14	Remove Existing Pavement, Type 1, Class A4	70 SY	\$ _____	\$ _____
R3 2-15	Remove Curb and Gutter	155 LF	\$ _____	\$ _____
R4 5-04	Planing Bituminous Pavement	746 SY	\$ _____	\$ _____
R5 5-04	HMA Cl. 1/2" PG 58H- 22	85 TN	\$ _____	\$ _____
R6 5-04	Cold Plant Mix for Temporary Pavement Patch	20 TN	\$ _____	\$ _____
R7 7-05	Adjust Existing Catch Basin, furnish new frame and grate	4 EA	\$ _____	\$ _____
R8 7-05	Adjust Existing Valve Chamber to Grade	3 EA	\$ _____	\$ _____
R9 7-05	Adjust Manhole to Grade, furnish new frame and cover	2 EA	\$ _____	\$ _____
R10 7-05	Remove and replace junction box to grade	8 EA	\$ _____	\$ _____
R11 8-01	Inlet Protection	7 EA	\$ _____	\$ _____
R12 8-14	Cement Driveway Conc. Entrance	27 SY	\$ _____	\$ _____
R13 8-14	Cement Conc. Sidewalk	336 SY	\$ _____	\$ _____
R14 8-14	Perpendicular Curb Ramp, Type 'A'	5 EA	\$ _____	\$ _____

Bidder Name: \_\_\_\_\_

Specification No. PW20-0231F

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**Addendum #1**

R15 8-22	Plastic line	200 LF	\$ _____	\$ _____
R16 8-22	Plastic Wide Lane Line	100 LF	\$ _____	\$ _____
R17 8-22	Plastic Crosswalk Line	640 LF	\$ _____	\$ _____
R18 8-22	Plastic Stop Line	71 LF	\$ _____	\$ _____
<b>Roadway Base Bid Total (Bid Items No. R1 – R18)</b>			<b>\$ _____(4)</b>	

**Addendum #1****Schedule B2: Lump Sum, Bid Items L1 – L13**

<u>ITEM NO.</u>	<u>ITEM DESCRIPTION</u>	<u>ESTIMATED QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL AMOUNT</u>
L1 1-05	Roadway Surveying	1 LS	Lump Sum	\$_____
L2 1-07	Spill Prevention Control and Countermeasures (SPCC) Plan	1 LS	Lump Sum	\$_____
L3 1-07	Pedestrian Control and Protection	1 LS	Lump Sum	\$_____
L4 1-09	Mobilization	1 LS	Lump Sum	\$_____
L5 1-10	Project Temporary Traffic Control	1 LS	Lump Sum	\$_____
L6 2-01	Clearing and Grubbing	1 LS	Lump Sum	\$_____
L7 2-06	Subgrade Maintenance and Protection	1 LS	Lump Sum	\$_____
L8 8-01	Stormwater Pollution Prevention Plan (SWPPP)	1 LS	Lump Sum	\$_____
L9 8-01	Erosion/Water Pollution Control	1 LS	Lump Sum	\$_____
L10 8-01	Site Restoration	1 LS	Lump Sum	\$_____
L11 8-20	Illumination System Modifications	1 LS	Lump Sum	\$_____
L12 8-21	Permanent Signing	1 LS	Lump Sum	\$_____
L13 8-22	Removal of Pavement Markings	1 LS	Lump Sum	\$_____
<b>Lump Sum Base Bid Subtotal (Bid Items No. L1 – L13)</b>				<b>\$_____ (5)</b>
<b>Part 2</b>				
<b>GRAND TOTAL BASE BID (4) + (5) (Not Including Sales Tax)</b>				<b>\$_____ (6)</b>

Bidder Name: \_\_\_\_\_  
Specification No. PW20-0231F  
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## Addendum #1

<b>GRAND TOTAL (Part 1 + Part 2)</b> <b>(3) + (6)</b> <b>(Not Including Sales Tax)</b>	\$ _____
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### Proposal for Incorporating Recycled Materials into the Project

In compliance with a new law that went into effect January 1, 2016 (SHB1695), the Bidder shall propose below, the total percent of construction aggregate and concrete materials to be incorporated into the Project that are recycled materials. Calculated percentages must be within the amounts allowed in Section 9 03.21(1)E, Table on Maximum Allowable Percent (By Weight) of Recycled Material, of the Standard Specifications.

Proposed total percentage: \_\_\_\_\_ percent (%)

*Note: Use of recycled materials is highly encouraged within the limits shown above, but does not constitute a Bidder Preference, and will not affect the determination of award, unless two or more lowest responsive Bid totals are exactly equal, in which case proposed recycling percentages will be used as a tie-breaker, per the APWA GSP in Section 1-02.6 of the Special Provisions. Regardless, the Bidder's stated proposed percentages will become a goal the Contractor should do its best to accomplish. Bidders will be required to report on recycled materials actually incorporated into the Project, in accordance with the APWA GSP in Section 1 06.6 of the Special Provisions.*

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Bidder: \_\_\_\_\_

Signature of Authorized Official: \_\_\_\_\_

Date: \_\_\_\_\_

Bidder Name: \_\_\_\_\_

Specification No. PW20-0231F

## Addendum #1

### 9-29.13 Control Cabinet Assemblies

*This section is revised to read:*

Cabinet shall be wired for a Siemens M60 Controller TS 2, Type 1.

The Contractor shall furnish and install the following traffic signal equipment in the quantities shown in accordance with the respective specifications provided:

Location	Fully Loaded Traffic Controller Cabinet	Traffic Signal Controller	MMU	Ethernet over Copper Switch	Preempt/ Priority Equip.	APS PPB Cabinet Control Unit	Load Switch
E Puyallup Ave	1	<i>Included in Fully Loaded Traffic Controller Cabinet</i>					
E 31st St	-	1	1	-	1	1	-
E 32nd St	1	<i>Included in Fully Loaded Traffic Controller Cabinet</i>					
E Fairbanks St	1	<i>Included in Fully Loaded Traffic Controller Cabinet</i>					
E 38th St	1	<i>Included in Fully Loaded Traffic Controller Cabinet</i>					
E 40th St	-	-	-	-	1	-	-
E 44th St	1	<i>Included in Fully Loaded Traffic Controller Cabinet</i>					
E 48th St	1	<i>Included in Fully Loaded Traffic Controller Cabinet</i>					
E 56th St	1	<i>Included in Fully Loaded Traffic Controller Cabinet</i>					
E 64th St	-	-	-	-	1	1	2
E 72nd St	1	<i>Included in Fully Loaded Traffic Controller Cabinet</i>					

**9-29.18 Vehicle Detector**

*This section is supplemented with the following:*

The Contractor shall furnish and install the following vehicle detection equipment, relocate detection equipment, and salvage detection equipment in the quantities and as shown in accordance with the respective specifications provided:

Location	Detection Type	
	Existing	Proposed
E Puyallup Ave	4 Thermal Detection Cameras	Remain as is
E 31st St	Induction Loops	Remain as is
E 32nd St	2 Video Detection Cameras (salvage to City of Tacoma) 2 Thermal Detection Camera (moved to E 40th St)	1 GridSmart Detection Camera
E Fairbanks St	Induction Loops (abandon in place)	1 GridSmart Detection Camera
E 38th St	Sensys Pucks (abandon in place) Induction Loops (abandon in place)	1 GridSmart Detection Camera
E 40th St	3 Video Detection Cameras (salvage to City of Tacoma) 1 Thermal Detection Camera	2 Thermal Detection Cameras (relocated from E 32nd St) 1 Thermal Detection Camera (relocated from E 48th St) 1 Thermal Detection Camera (remain as is)
E 44th St	4 Video Detection Cameras (salvage to City of Tacoma)	1 GridSmart Detection Camera
E 48th St	3 Video Detection Cameras (salvage to City of Tacoma) 1 Thermal Detection Camera (moved to E 40th St)	1 GridSmart Detection Camera
E 56th St	4 Video Detection Cameras (salvage to City of Tacoma)	1 GridSmart Detection Camera
E 64th St	1 GridSmart Detection Camera	Remain as is
E 72nd St	4 Video Detection Cameras (salvage to City of Tacoma)	1 GridSmart Detection Camera



**1-10.3(3)C Portable Changeable Message Sign  
(\*\*\*\*\*)**

*This section is supplemented with the following:*

Portable Changeable Message Signs shall be required on Portland Avenue where construction occurs for durations longer than seven (7) calendar days. Signs shall be updated daily and/or as needed to inform the traveling public and businesses of the pending work and updated information as the work progresses. Signs shall be solar charged and programmable. Signs shall be provided a minimum of seven (7) calendar days prior to construction and remain throughout the duration of the work.

To prevent hacker from getting access to the Portable Change Message Signs (PCMS), the contractor is required to change the default password and to take other appropriate measures for field access to message control features on the PCMS. In addition, the contractor shall verify the PCMS control box, if any, is secured and locked from tampering during the daily review of the work zone set up and conditions of the traffic control devices.



SIGNAL POLE CONSTRUCTION NOTES

- 1 INSTALL TYPE II SIGNAL POLE AND FOUNDATION WITH 50FT MAST ARM PER WSDOT STANDARD PLAN J-26.10-03. INSTALL THREE VEHICLE SIGNAL HEADS, ONE EMERGENCY VEHICLE PREEMPTION DETECTOR, AND ONE STREET NAME SIGN ON MAST ARM. INSTALL RELOCATED VIDEO DETECTION CAMERA ON MAST ARM. INSTALL TWO PEDESTRIAN SIGNAL HEADS ON SIGNAL POLE (TYPE E MOUNT). INSTALL ONE APS STYLE PEDESTRIAN PUSHBUTTON ON SIGNAL POLE. THE TOP OF FOUNDATION SHALL BE FLUSH WITH THE TOP OF ADJACENT SIDEWALK.
- 2 EXISTING SIGNAL POLE AND FOUNDATION TO REMAIN.
- 3 EXISTING SIGNAL POLE AND FOUNDATION TO REMAIN.
- 4 INSTALL TYPE II SIGNAL POLE AND FOUNDATION WITH 60FT MAST ARM PER WSDOT STANDARD PLAN J-26.10-03. INSTALL FOUR VEHICLE SIGNAL HEADS, ONE EMERGENCY VEHICLE PREEMPTION DETECTOR, AND ONE STREET NAME SIGN ON MAST ARM. INSTALL RELOCATED VIDEO DETECTION CAMERA ON MAST ARM.
- 5 EXISTING SIGNAL POLE AND FOUNDATION TO REMAIN.
- 6 EXISTING SIGNAL POLE AND FOUNDATION TO REMAIN.
- 7 INSTALL PEDESTRIAN PUSHBUTTON POST WITH CURB BASE PER WSDOT STANDARD PLAN J-20.11-02. INSTALL ONE APS STYLE PEDESTRIAN PUSHBUTTON.
- 8 INSTALL TYPE PS POLE WITH CURB BASE PER WSDOT STANDARD PLANS J-20.16-02 AND J-20.11-02. INSTALL TWO PEDESTRIAN SIGNAL HEADS (TYPE C MOUNT) AND ONE APS SYTLE PEDESTRIAN PUSHBUTTON.
- 9 INSTALL PEDESTRIAN PUSHBUTTON POST WITH CURB BASE PER WSDOT STANDARD PLAN J-20.11-02. INSTALL ONE APS STYLE PEDESTRIAN PUSHBUTTON.
- 10 INSTALL TYPE PS POLE WITH CURB BASE PER WSDOT STANDARD PLANS J-20.16-02 AND J-20.11-02. INSTALL TWO PEDESTRIAN SIGNAL HEADS (TYPE C MOUNT) AND TWO APS SYTLE PEDESTRIAN PUSHBUTTONS.
- 11 INSTALL TYPE PS POLE WITH CURB BASE PER WSDOT STANDARD PLANS J-20.16-02 AND J-20.11-02. INSTALL TWO PEDESTRIAN SIGNAL HEADS (TYPE C MOUNT) AND ONE APS SYTLE PEDESTRIAN PUSHBUTTON.
- 12 INSTALL PEDESTRIAN PUSHBUTTON POST WITH CURB BASE PER WSDOT STANDARD PLAN J-20.11-02. INSTALL ONE APS STYLE PEDESTRIAN PUSHBUTTON.

CONSTRUCTION NOTES

- 1 INSTALL ONE VEHICLE SIGNAL HEAD WITH BACKPLATE ON SPAN WIRE. BACKPLATE SHALL INCLUDE 1" RETROREFLECTIVE BORDER.
- 4 INSTALL NEW NEMA TS-2 TYPE 1 P44 CONTROLLER CABINET WITH FOUNDATION RISER ADAPTER.
- 6 RELOCATE EXISTING VIDEO DETECTION CAMERA AND MOUNT.
- 8 REMOVE EXISTING VEHICLE SIGNAL HEAD.
- 9 REMOVE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
- 13 REMOVE EXISTING SIGN.
- 14 REMOVE AND REPLACE EXISTING TYPE 1 JUNCTION BOX WITH TYPE 2 JUNCTION BOX.
- 22 INSTALL NEW TYPE 1 JUNCTION BOX.
- 23 INSTALL NEW TYPE 2 JUNCTION BOX.
- 24 INSTALL NEW TYPE 8 JUNCTION BOX.
- 25 RELOCATE EXISTING EMERGENCY VEHICLE PREEMPTION DEVICE.
- 27 REMOVE AND REPLACE EXISTING TYPE 1 JUNCTION BOX WITH NEW TYPE 1 JUNCTION BOX.
- 28 REMOVE AND REPLACE EXISTING TYPE 1 JUNCTION BOX WITH NEW TYPE 8 JUNCTION BOX.
- 29 INTERCEPT NEW CONDUIT INTO EXISTING CONDUIT AND REPLACE CONDUCTORS TO NEAREST SPLICE POINT. ABANDON EXISTING CONDUIT IN PLACE.
- 30 RELOCATE EXISTING SIGN.

NOTE: SEE SHEET TS32 FOR WIRING SCHEDULE, CONSTRUCTION SEQUENCING, AND TRAFFIC CONTROL NOTES.

CALL 48 HOURS  
BEFORE YOU DIG  
1-800-424-5555

transpogroup **7T**  
WHAT TRANSPORTATION CAN BE.  
12131 113TH AVENUE NE, SUITE 203  
KIRKLAND, WASHINGTON 98034  
(TEL) 425 821-3665  
(FAX) 425 825-8434



Addendum#1

NO

REVISION

DATE

APPD

FINAL  
CONSTRUCTION  
CHECKED  
BY  
DATE  
FIELD BOOKS

DATE  
09/30/2020  
DESIGNED  
TVN  
DRAWN  
TVN  
DRAWING NAME

SCALE  
AS SHOWN  
CHECKED  
RWP  
PROJECT NAME  
PORTLAND AVE  
SAFETY



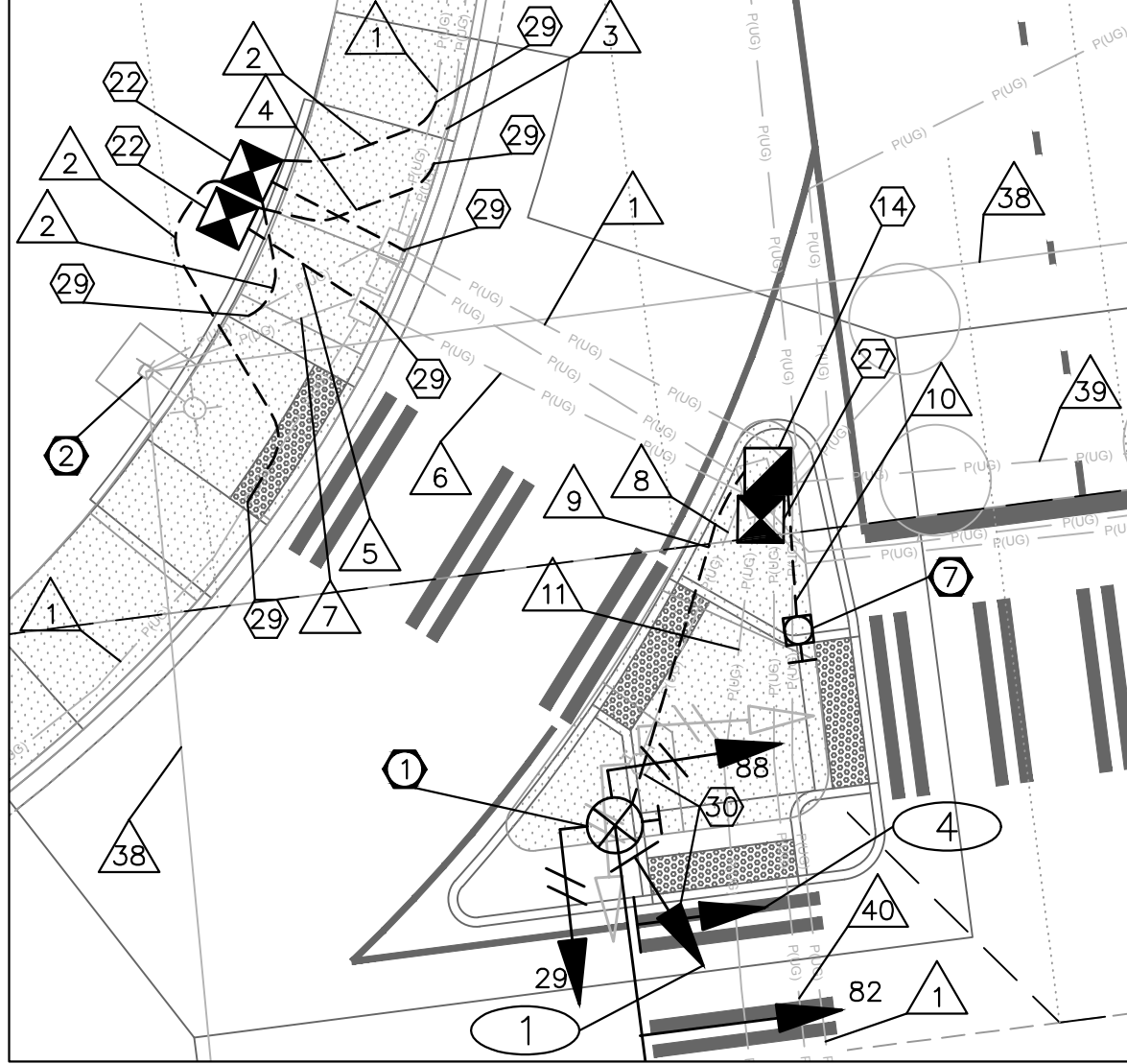
CITY OF TACOMA  
PUBLIC WORKS DEPARTMENT  
Chris Larson

E PORTLAND AVE SAFETY IMPROVEMENTS  
E PORTLAND AVE AND PUYALLUP AVE  
TRAFFIC SIGNAL PLAN

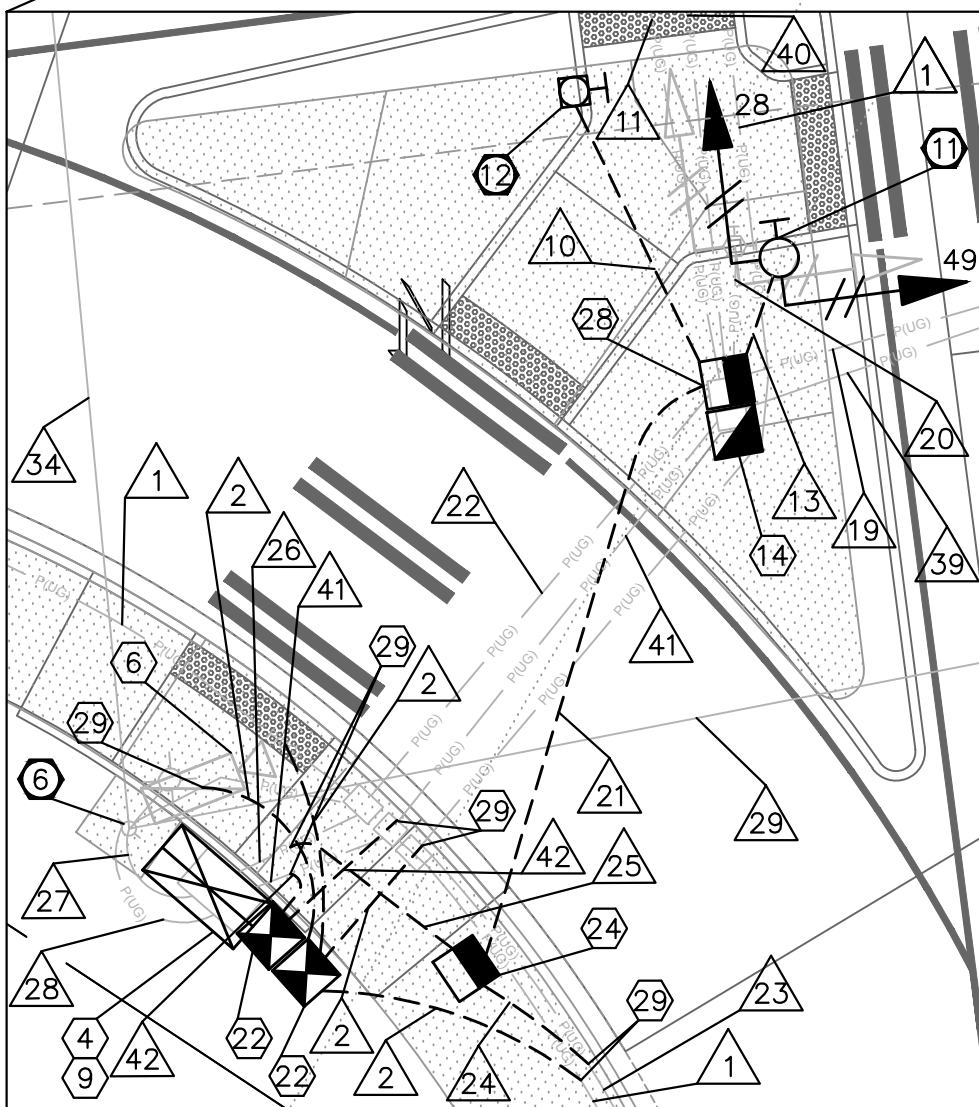
TS31

SHEET NO.  
SHEET 33 OF 50

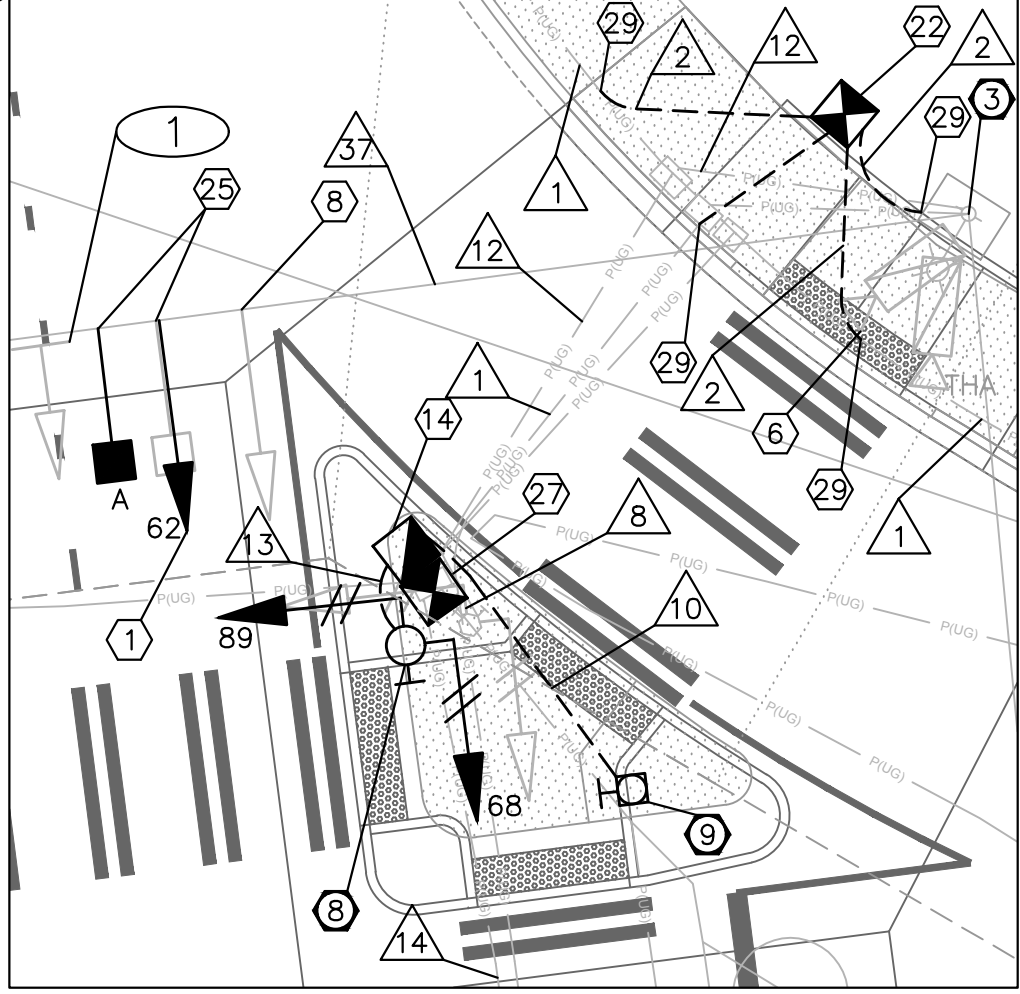
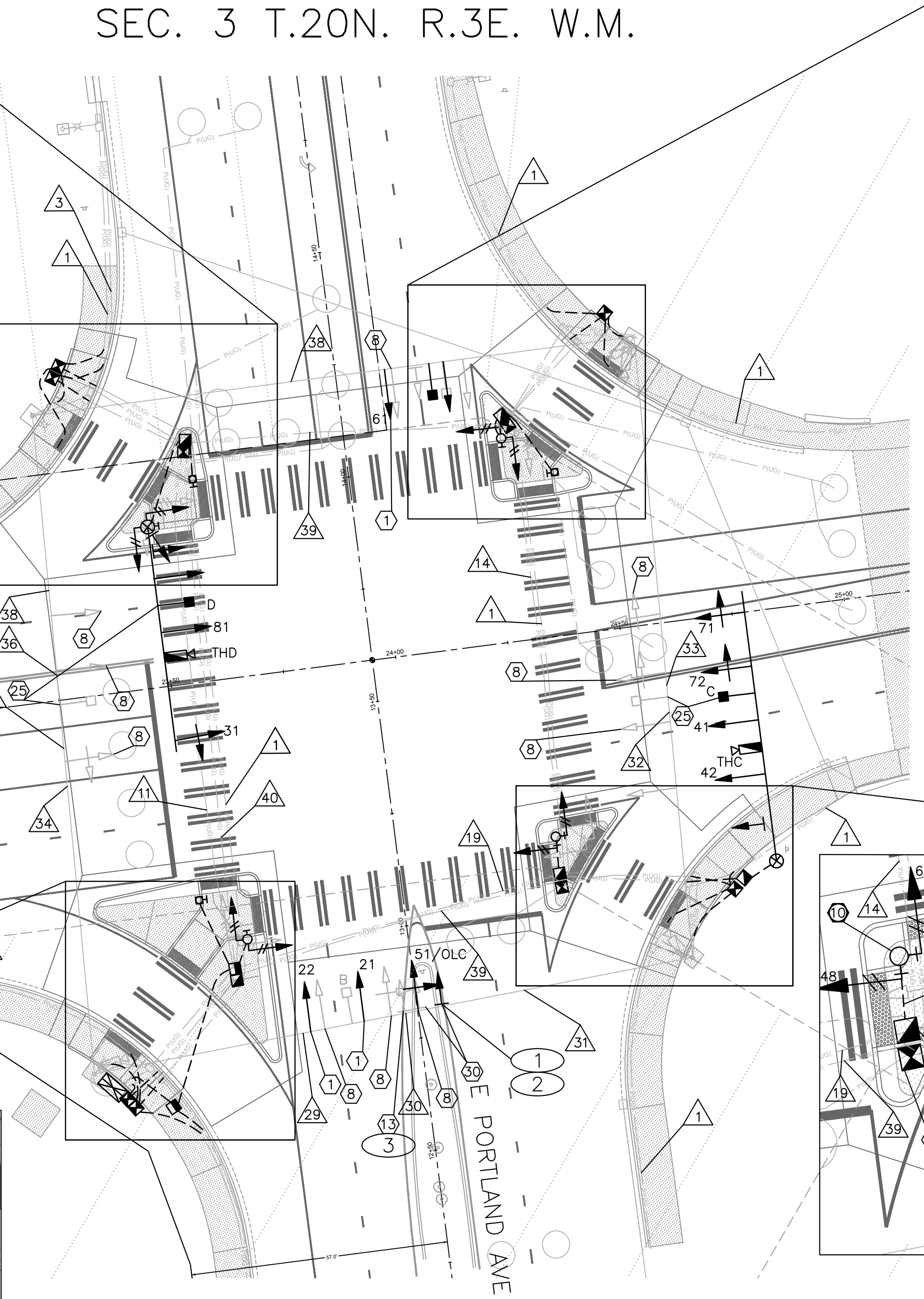
SEC. 3 T.20N. R.3E. W.M.



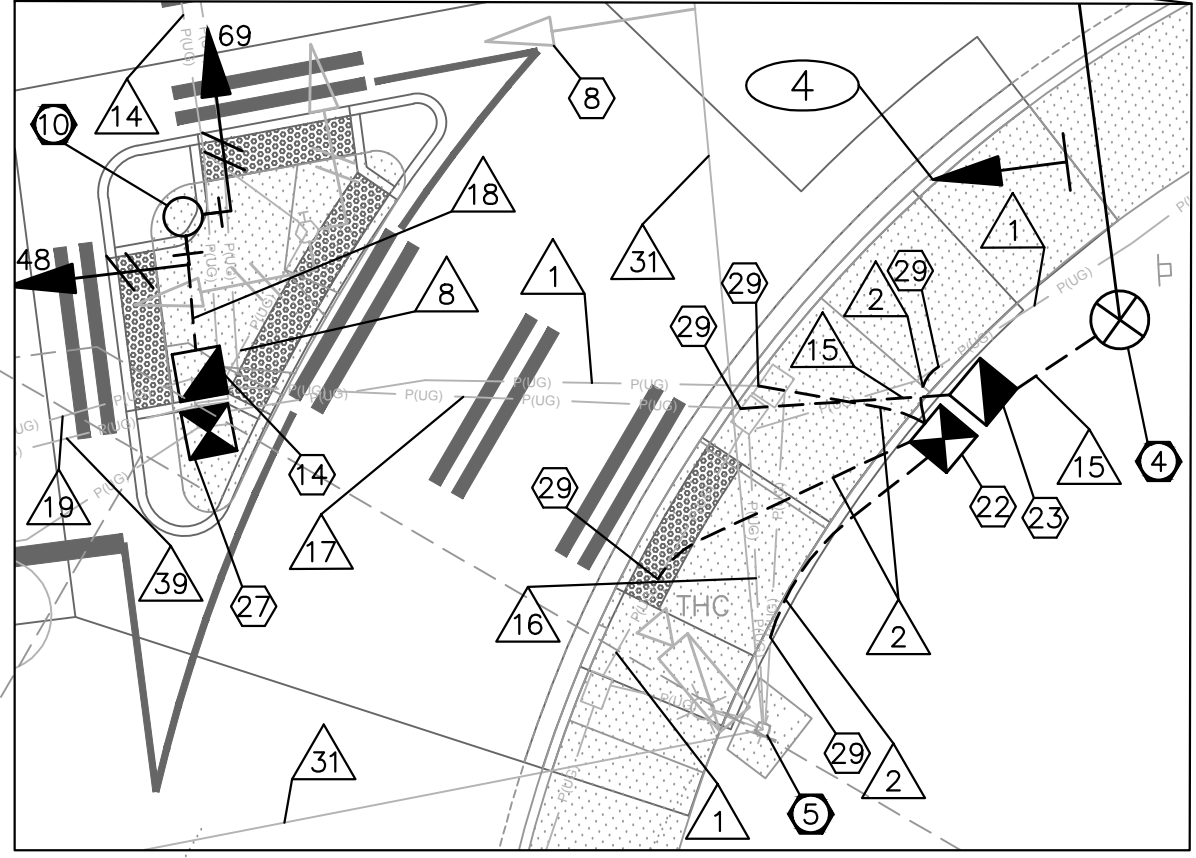
NW CORNER DETAIL  
SCALE: 1" = 10'



SW CORNER DETAIL  
SCALE: 1" = 10'

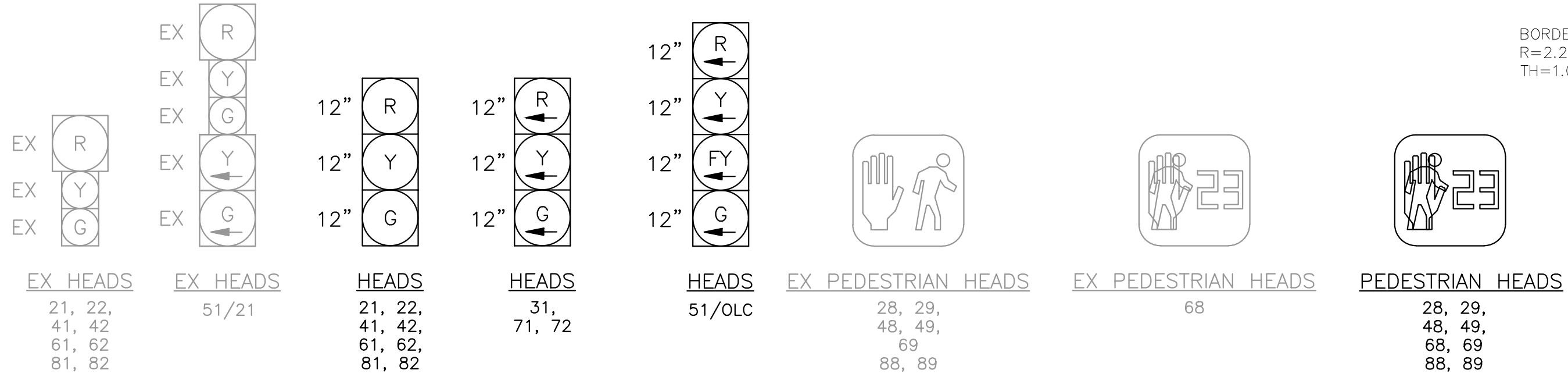


NE CORNER DETAIL  
SCALE: 1" = 10'

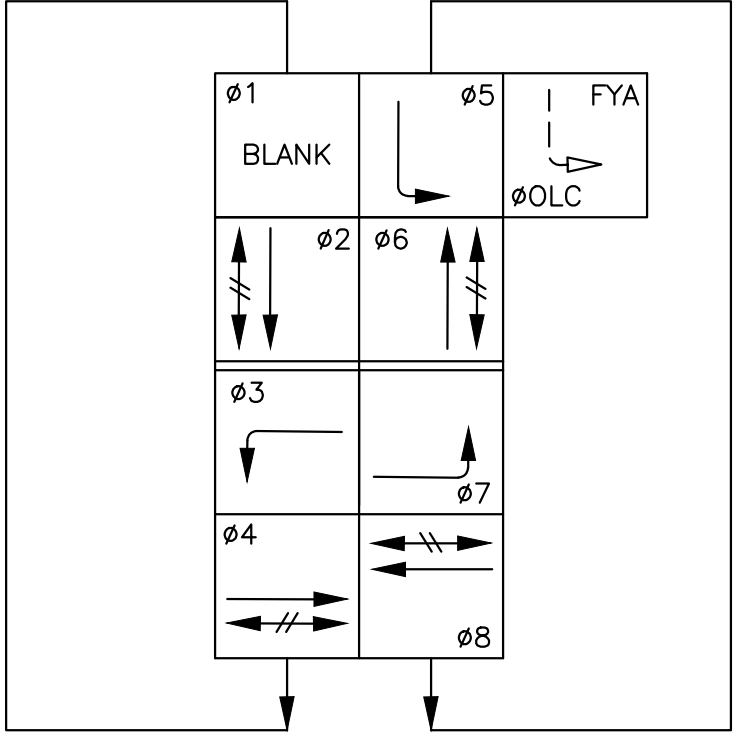


SE CORNER DETAIL  
SCALE: 1" = 10'

SIGNAL HEAD DISPLAY

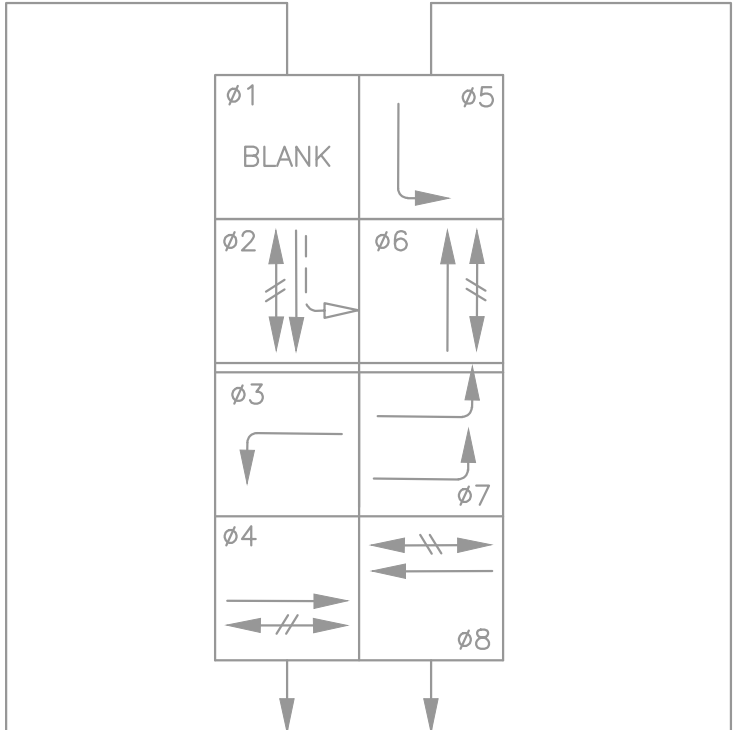


PROPOSED SIGNAL PHASING



- VEHICLE MOVEMENT  
PROTECTED TURN  
PERMISSIVE TURN  
PEDESTRIAN MOVEMENT

EXISTING SIGNAL PHASING

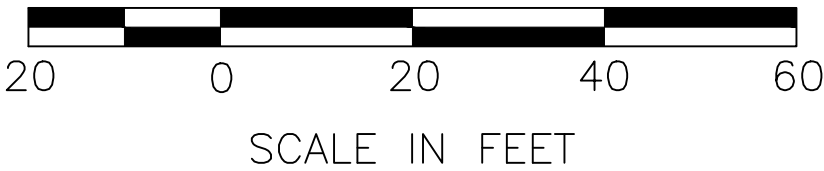


- VEHICLE MOVEMENT  
PROTECTED TURN  
PERMISSIVE TURN  
PEDESTRIAN MOVEMENT

SIGN LEGEND



D3-1 (MUTCD)  
24" X 126"  
12" SERIES D  
WHITE ON GREEN  
4







SIGNAL POLE CONSTRUCTION NOTES

- 1

EXISTING SIGNAL POLE AND FOUNDATION TO REMAIN. REMOVE ONE EXISTING PEDESTRIAN SIGNAL HEAD SERVING PORTLAND AVE CROSSING FROM POLE AND INSTALL NEW COUNTDOWN TYPE PEDESTRIAN SIGNAL HEAD.
- 2

EXISTING SIGNAL POLE AND FOUNDATION TO REMAIN.
- 3

EXISTING SIGNAL POLE AND FOUNDATION TO REMAIN.
- 4

EXISTING SIGNAL POLE AND FOUNDATION TO REMAIN.
- 5

EXISTING SIGNAL POLE AND FOUNDATION TO REMAIN.
- 6

EXISTING SIGNAL POLE AND FOUNDATION TO REMAIN.
- 7

EXISTING SIGNAL POLE AND FOUNDATION TO REMAIN
- 8

EXISTING SIGNAL POLE AND FOUNDATION TO REMAIN
- 9

EXISTING SIGNAL POLE AND FOUNDATION TO REMAIN.
- 10

EXISTING SIGNAL POLE AND FOUNDATION TO REMAIN.
- 11

EXISTING SIGNAL POLE AND FOUNDATION TO REMAIN

Please see addendum  
#1 for information regarding  
the NW Corner

CONSTRUCTION NOTES

- 1

INSTALL ONE VEHICLE SIGNAL HEAD WITH BACKPLATE ON SPAN WIRE. BACKPLATE SHALL INCLUDE 1" RETROREFLECTIVE BORDER.
- 4

INSTALL NEW NEMA TS-2 TYPE 1 P44 CONTROLLER CABINET WITH FOUNDATION RISER ADAPTER.
- 7

INSTALL ONE GRIDSMART DETECTION CAMERA ON NEW MOUNT ON LUMINAIRE ARM.
- 8

REMOVE EXISTING VEHICLE SIGNAL HEAD.
- 9

REMOVE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET.
- 10

REMOVE EXISTING VIDEO DETECTION CAMERA.
- 13

REMOVE EXISTING SIGN.
- 18

INSTALL ONE EMERGENCY VEHICLE PRE-EMPTION DETECTOR ON SPAN WIRE.

PRE-EMPTION  
SCHEDULE

CIRCUIT	DIRECTION
A	N
B	S
C	E
D	W

TRAFFIC CONTROL NOTES

SEE SHEETS TC01-TC03 FOR TRAFFIC CONTROL DETAILS.

WIRING SCHEDULE

△ NO	RACEWAY CONDUIT SIZE*	VEH DETECT		E/V DETECT 3C(SH)		PPB 2C(SH)		PPB 5C		VIDEO DETECTION CABLE		VEH HEAD 5C		PED HEAD 5C		PED HEAD/PPB 8C		ILLUM #8		INTER- CONNECT 8C		SERVICE POWER #6		COMMENTS	CONDUIT FILL PERCENTAGE
		EX	NEW	EX	NEW	EX	NEW	EX	NEW	EX	NEW	EX	NEW	EX	NEW	EX	NEW	EX	NEW	EX	NEW	EX	NEW		
1	EX 2"				1							1,1(R)	1	1											18.20%
	EX 2"									2(R)															-
2	EX 2"				1		2	1(R)				1,1(R)	1	1											24.46%
	EX 2"																					2			6.23%
3	EX 2"				1		2	1(R)				1,1(R)	1	1											24.46%
	EX 2"				1		2	1(R)				1,1(R)	1	1											24.46%
	EX 2"																					2			6.23%
4	EX 2"				1							1,1(R)	1	1											18.20%
	EX 2"	SPARE (EMPTY WITH PULL ROPE)																							-
5	EX 2"				1		2	1(R)				1,1(R)	1	1											24.46%
	EX 2"	SPARE (EMPTY WITH PULL ROPE)																							-
6	EX 2"				1							1,1(R)	1	1											18.20%
	EX 2"						1						1	1											9.15%
7	EX 2"				1		2	1(R)				1,1(R)	1	1											24.46%
	EX 2"				1		2	1(R)				1,1(R)	1	1											24.46%
	EX 2"																					2			6.23%
	EX 2"						1	1(R)		2(R)	1**														6.20%
8	EX 2"				1							1,1(R)	1	1											18.20%
9	EX 2"									2(R)															-
10	EX 2"					1(R)	1																		4.28%
	EX 2"									2(R)	1**														3.07%
11	EX 2"					1(R)	1																		4.28%
12	EX 2"					1(R)	1							1											9.15%

\*ALL NEW CONDUIT SHALL BE PVC AND SHALL CONTAIN A NO. 8 GROUND WIRE, UNLESS OTHERWISE NOTED.  
\*\*GRIDSMART VIDEO DETECTION CAMERA CABLE.

(R) = REMOVE EXISTING CONDUCTOR

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RWP  
PROJECT NAME  
PORTLAND AVE  
SAFETY



CITY OF TACOMA  
PUBLIC WORKS DEPARTMENT

E PORTLAND AVE SAFETY IMPROVEMENTS  
E PORTLAND AVE AND E 56TH ST  
TRAFFIC SIGNAL PLAN

TS07

SHEET NO.

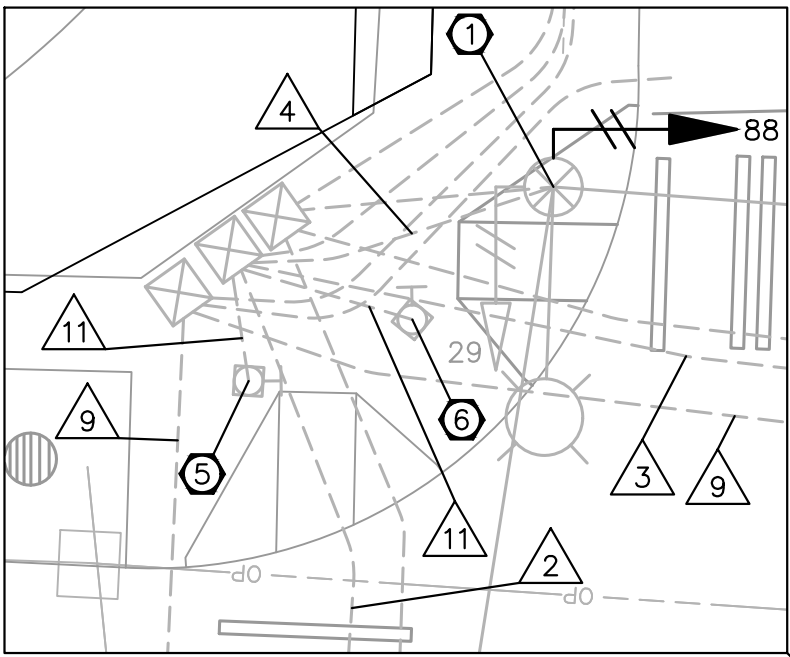
SHEET

9

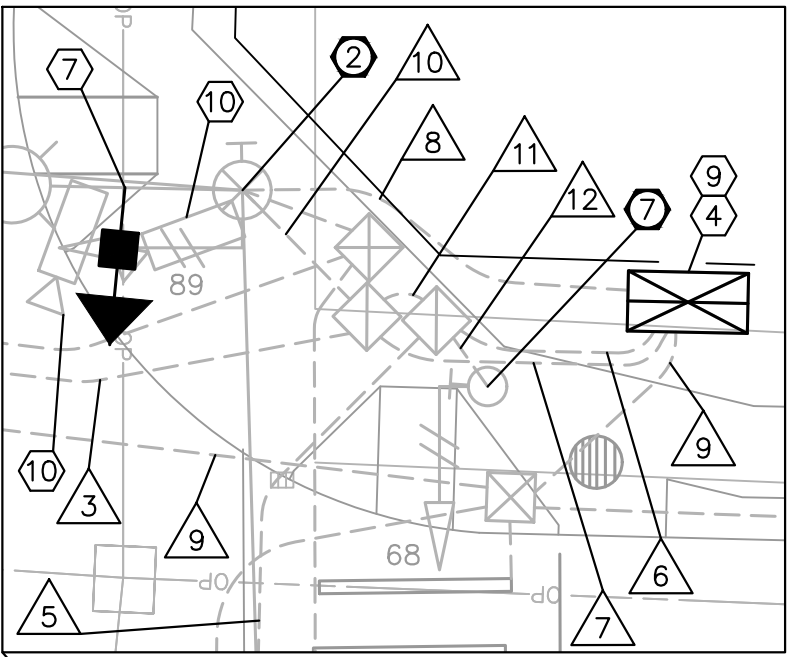
OF

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T.20N. R.3E. W.M.

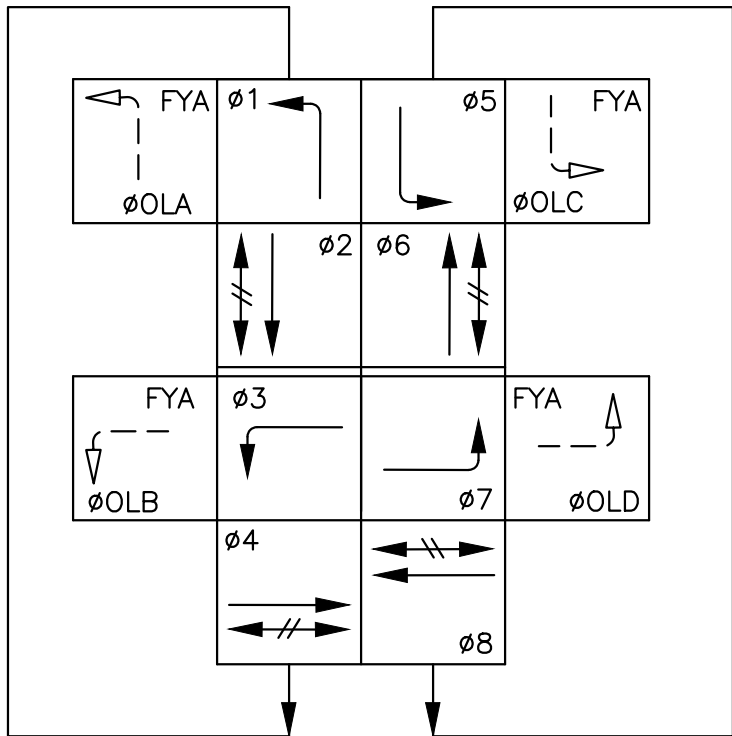


NW CORNER DETAIL  
SCALE: 1" = 10'



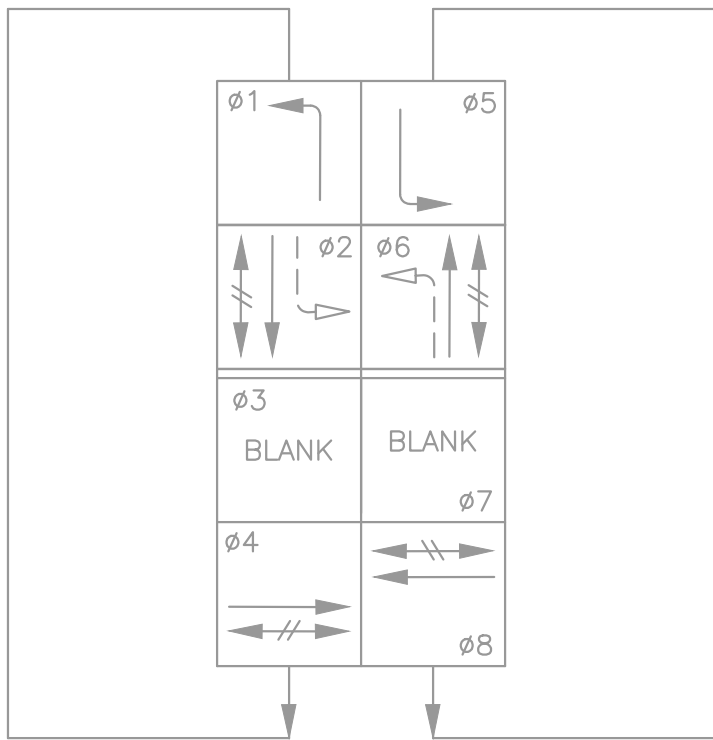
NE CORNER DETAIL  
SCALE: 1" = 10'

PROPOSED SIGNAL PHASING

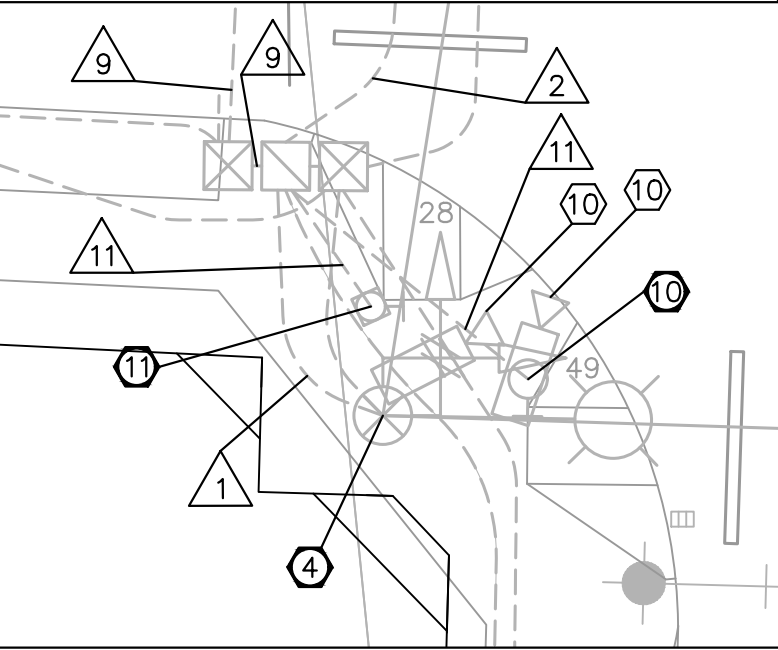


- VEHICLE MOVEMENT  
PROTECTED TURN  
PERMISSIVE TURN  
PEDESTRIAN MOVEMENT

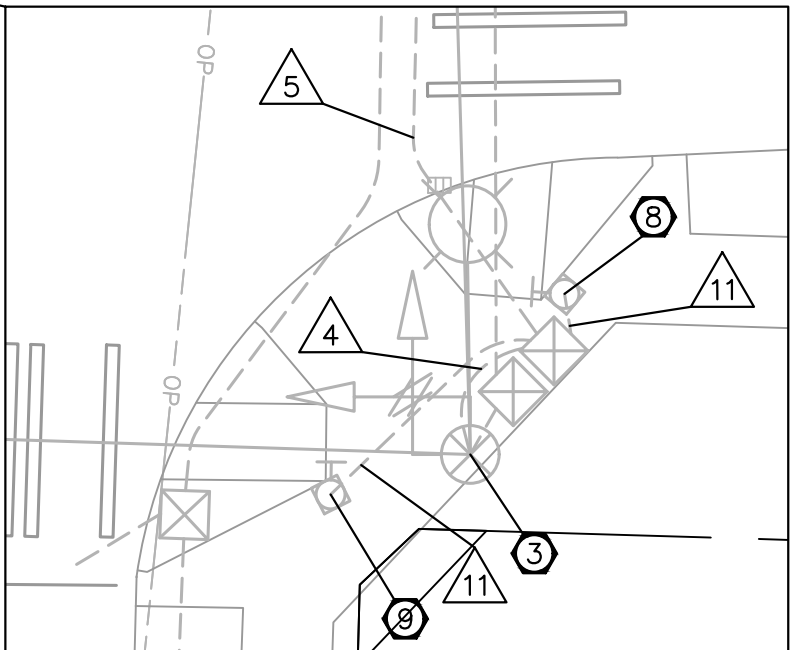
EX. SIGNAL PHASING



- VEHICLE MOVEMENT  
PROTECTED TURN  
PERMISSIVE TURN  
PEDESTRIAN MOVEMENT

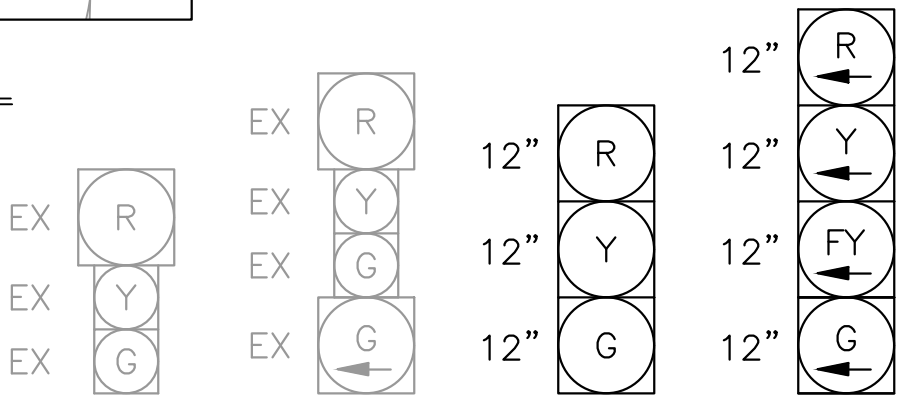


SW CORNER DETAIL  
SCALE: 1" = 10'



SE CORNER DETAIL  
SCALE: 1" = 10'

SIGNAL HEAD DISPLAY



EX HEADS

21,  
41, 42,  
62,  
81, 82

EX HEADS

11/61,  
51/21

HEADS

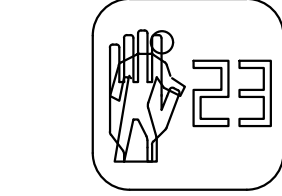
21, 22,  
41, 42,  
61, 62,  
81, 82

HEADS

11/OLA,  
31/OLB,  
51/OLC,  
71/OLD

EX PEDESTRIAN HEADS

88



PEDESTRIAN HEADS

88

28, 29,  
48, 49,  
68, 69,  
89



SCALE IN FEET