

October 3, 2025

TO: **PLAN HOLDERS LIST**

SUBJECT: CONTRACT NO. 071908
THORNE ROAD OFF DOCK CONTAINER YARD

ADDENDUM NUMBER 01

This addendum is issued to amend the following:

00 01 10 - Table of Contents:

Attachment 1-Listed Items updated

00 11 13 - Advertisement for Bids:

Attachment 2-Updated

00 41 00 - Bid Form:

Attachment 3-Updated

01 10 00 - Summary:

Attachment 4-Updated

01 20 00 - Price and Payment Procedures:

Attachment 5-Updated

32 12 16 - Asphalt Paving:

Attachment 6-Updated

32 17 23 - Pavement Markings:

Deleted section

C2.02:

Updated

C2.03:

Updated

C2.10:

Updated

C2.11:

Updated

PROCUREMENT AND CONTRACTING REQUIREMENTS

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- 00 01 07 - Seals Page
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- 00 01 15 - List of Drawing Sheets
- [2]** 00 11 13 - Advertisement for Bids
- 00 21 00 - Instructions to Bidders
- 00 26 00 - Substitution Procedures
- 00 31 00 - Available Project Information
- 00 31 26 - Existing Hazardous Material Information
- [3]** 00 41 00 - Bid Form
- 00 43 13 - Bid Security Form
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END OF SECTION

THORNE RD OFF DOCK CONTAINER YARD

PROJECT NO. 101241.01 | CONTRACT NO. 071908

Scope of Work:	The Work required for this Project includes but is not limited to: Selective site demolition; clearing and grubbing; removal of asphalt pavement; installation of domestic water, fire water, sewer, natural gas, power and stormwater utilities; grading; asphalt paving; pavement markings ; concrete placement; installation of curb, gutter and sidewalk; landscaping, installation of an at grade railroad crossing including track work; chain link fencing; installation of a self contained pressure washing facility; installation of pre-fabricated guard shelter; installation of a tent style maintenance shelter; street lighting. Work will be conducted on Port owned property, City of Tacoma Right-of-Way and Tacoma Rail track.
Bid Estimate:	Estimated cost range is \$29,300,000 to \$30,850,000, plus Washington State Sales Tax (WSST). In accordance with RCW 39.04.320, fifteen (15) percent apprenticeship participation is required for certain projects estimated to cost one million (\$1,000,000) dollars or more. Bidders may contact the Department of Labor and Industries, Specialty Compliance Services Division, Apprenticeship Section, P.O. Box 44530, Olympia, WA 98504-4530, by phone (360) 902-5320, or e-mail at Apprentice@lni.wa.gov , to obtain information on available apprenticeship programs.
Sealed Bid Date/ Time/Location:	In accordance with new legislation HB 1050 all port districts are required to add the requirement that apprentices must perform 15% Bids will be received at the Front Reception Desk, Port Administration Office, One Sitzum Plaza, Tacoma, Washington 98421 until 2:00 P.M. on October 16, 2025 , at which time they will be publicly opened and read aloud and the apparent low bid will be determined.
Pre-Bid Conference and Site Tour:	A pre-Bid conference and site visit have been set for October 1, 2025 at 10:00 A.M. The site visit will convene at the Port's Administrative building, located at One Sitzum Plaza. The following Personal Protective Equipment is required for the site visit: sturdy shoes and reflective vest. Attendees will be required to sign a Release and Acceptance of Responsibility and Acknowledgement of Risks Form prior to entering the site and shall provide their own Personal Protection Equipment (PPE) as required above.

Bid Security: Each Bid must be accompanied by a Bid security in an amount equal to five (5) percent of the Base Bid in a form allowed by the Instructions to Bidders.

Additional Information: There are three grants associated with this project: U.S. Department of Transportation, State of Washington Department of Ecology and Washington State Department of Commerce.

Special Conditions: It is anticipated that this project will be funded in part by the Washington State Department of Ecology. Neither the State of Washington nor any of its departments or employees are, or shall be, a party to any contract or any subcontract resulting from this solicitation for bids.

2 C.F.R. 200-321, as appropriate and to the greatest extent practicable under this project, contracting with small and minority businesses, women's business enterprises and labor surplus area firms.

2 C.F.R. 200-322, as appropriate and to the extent consistent with law, to the greatest extent practicable under this project provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States, is applicable to this project.

Contact Information: Any questions to the Port may be submitted to the Procurement Department through the Procurement and Question Submission Portal (Portal link is accessible via this specific procurements website. See left side of page.). A direct link is also available here: [Procurement and Question Portal Link](#). No oral responses will be binding by the Port.

Instructions for utilizing the portal can be found here: [Procurement and Question Submission Portal Instructions](#).

Questions will not be accepted after seven (7) days prior to the Bid Date.

Bidding Documents: Plans, Specifications, Addenda, and Plan Holders List for this Project are available on-line through The Port of Tacoma's Website portoftacoma.com. Click on "Contracts," "Procurement," and then the Procurement Number 071908. Bidders must subscribe to the Holder's List on the right hand side of the screen in order to receive automatic email notification of future addenda and to be placed on the Holder's List.

Written questions about the meaning or intent of the Solicitation Documents shall only be submitted to the Procurement Department through the Procurement and Question Submission Portal (Portal link is accessible via this specific procurements website. See left side of page.) A direct link is also available here: [Procurement and Question Portal Link](#).

Instructions for utilizing the portal can be found here: [Procurement and Question Submission Portal Instructions](#).

When viewing the details page for this procurement on the Port's Website firms have the option of subscribing to the Holder's List. Holder's Lists will be updated regularly and posted to the specific procurements page. Additional Instructions available in Section 00 21 00 - Instructions to Bidders.

**Public Works
Training
Requirements:** Effective July 1, 2019, all businesses are required to have training before bidding on public works projects and prevailing wage under RCW 39.04.359 and RCW 39.12, or is on the list of exempt businesses maintained by the Department of Labor and Industries. The bidder must designate a person or persons to be trained on these requirements. The training will be provided by the Department of Labor and Industries or by a training provider whose curriculum is approved by the Department of Labor and Industries.

Please refer to Labor and Industries' web site (https://www.lni.wa.gov/TradesLicensing/PrevWage/Contractors/Training.asp?utm_medium=email&utm_source=govdelivery) for more information and training dates, requirements, and exemptions. Failure to attend this training could result in a determination of "not responsible" and the bidder not being awarded a public works contract.

END OF SECTION

BIDDER'S NAME: _____

PROJECT TITLE: **THORNE RD OFF DOCK CONTAINER YARD** _____

The undersigned Bidder declares that it has read the Contract Documents (including documents provided by reference), understands the conditions under which the Work will be performed, has examined the Project site, and has determined for itself all situations affecting the Work herein Bid upon. Bidder proposes and agrees, if this Bid is accepted, to provide at Bidder's own expense, all labor, machinery, tools, materials, etc., including all Work incidental to, or described or implied as incidental to such items, according to the Contract Documents, and that the Bidder will complete the Work within the time stated, and that Bidder will accept in full the lump sum or unit price(s) set forth below:

ITEM NO.	DESCRIPTION OF ITEM	QTY	UOM	UNIT PRICE	EXTENDED PRICE (QTY. x UNIT PRICE)
1	MOBILIZATION/ DEMOBILIZATION	1	LS		
2	PROJECT ADMINISTRATION	1	LS		
3	DEMOLITION AND REMOVAL	1	LS		
4	FIELD ENGINEERING	1	LS		
5	CLEARING & GRUBBING	10	ACRE		
6	EARTHWORK	11,500	CY		
7	REEFER AREA	1	LS		
8	CHASSIS REPAIR HUT	1	EA		
9	GUARD SHELTER	1	EA		
10	ELEC - AREAS 1 AND 2	1	LS		
11	ELEC - RR CROSSING	1	LS		
12	ELEC - AREA 3	1	LS		
13	COARSE AGGREGATE BASE	69,700	TON		
14	ASPHALT PAVING	64,450	TON		
[1]	15 PAVEMENT MARKINGS	1	LS		
[1]	CHAIN LINK FENCES	6,297	LF		
16	GATES 30'	3	EA		
17	SLIDING GATE 30'	2	EA		
18	GATE 24'	1	EA		
19	MISC SITE CONCRETE, BARRIERS AND BOLLARDS	1	LS		
20	FIRE PROTECTION SYSTEM	1	LS		
21					

DIVISION 00 - Division 00 - Procurement and Contracting Requirements
 SECTION 00 41 00 - Bid Form

ITEM NO.	DESCRIPTION OF ITEM	QTY	UOM	UNIT PRICE	EXTENDED PRICE (QTY. x UNIT PRICE)
22	WATER SYSTEM	1	LS		
23	REEFER RECIRCULATION EQUIPMENT & ENCLOSURE	1	LS		
24	SANITARY SEWER SYSTEM	1	LS		
25	ONSITE STORMWATER GRAVITY CONVEYANCE	1	LS		
26	ONSITE STORMWATER TREATMENT SYSTEM	1	LS		
27	RAIL CROSSING	1	LS		
28	TRAFFIC CONTROL MEASURES	1	LS		
29	SAWCUT AND REMOVAL OF EXISTING PAVEMENT, CURB AND SIDEWALK	1	LS		
30	CONCRETE SIDEWALK	1,681	SY		
31	CONCRETE CURB AND GUTTER	2,252	LF		
32	STREET LIGHTING SYSTEM	1	LS		
33	LANDSCAPE	1	LS		
34	OFFSITE STORMWATER GRAVITY CONVEYANCE AND TREATMENT	1	LS		
35	COARSE AGGREGATE BASE	640	TON		
36	ASPHALT CONCRETE PAVEMENT - STREET	525	TON		
37	CEMENT CONCRETE PAVEMENT - STREET	70	SY		
38	CEMENT CONCRETE DRIVEWAY	395	SY		
39	SIDEWALK RAMPS	6	EA		
40	PAVEMENT MARKINGS	1	LS		
41	RAIL CROSSING - PEDESTRIAN	1	LS		
42	UNFORESEEN CONDITIONS ALLOWANCE	1	LS	\$100,000	\$100,000

[1]

TOTAL BID AMOUNT	
10.3% WASHINGTON STATE SALES TAX (WSST) ON BASE BID	
SUBTOTAL	
BID TOTAL (WITH WSST)	

Note: Show prices in figures only.

Evaluation of Bids. In accordance with the provisions of the Contract Documents, Bids will be evaluated to determine the lowest Base Bid Subtotal offered by a responsible Bidder submitting a responsive Bid.

Trench Excavation Safety Provision. If the bid amount contains work which requires trenching exceeding a depth of four (4) feet, all costs for trench safety shall be included in the Base Bid and indicated below for adequate trench safety systems in compliance with RCW 39.04 and WAC 296-155-650. Bidder shall include a lump sum amount, excluding Washington State Sales Tax. If trench excavation safety provisions do not pertain to the Work, the Bidder should enter "N.A." or "Not Applicable" in the blank below.

Trench Excavation Safety: _____ (Total in Written Figures Only)

Principal Subcontractors/Suppliers. For Bids greater than one million (\$1,000,000) dollars, the Bidder shall list below the name of each subcontractor or supplier to whom the Bidder proposes to subcontract the portions of the work listed below, or name itself for the work, in accordance with RCW 39.30.060.

Work to be Performed	License Number	Name of Firm
HVAC (Heating, Ventilation and Air Conditioning) Work		
Plumbing Work		
Electrical Work		
Structural Steel Installation		
Rebar Installation		

Non-Collusion Representation. The Bidder declares under penalty of perjury that the Bid submitted is genuine and not a sham or collusive bid, or made in the interest or on behalf of any person or firm not therein named; and further represents that the Bidder has not directly or indirectly induced or solicited any other bidder to submit a sham bid, or encouraged any other person or corporation to refrain from bidding; and that the Bidder has not in any manner sought by collusion to secure to the Bidder an advantage over any other bidder or bidders.

RCW 39.04.350 Certification. The Bidder represents and certifies, under penalty of perjury, that within the three- (3-) year period immediately preceding the Bid Date, the Bidder has not been determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries, nor through a civil judgment entered by a court of limited or general jurisdiction, to have willfully violated, as defined in RCW 49.48.082, any provision of Chapters 49.46, 49.48, nor 49.52 RCW.

Addenda. Bidder acknowledges receipt and acceptance of all Addenda through No. ____ (Identify Last Addenda By Number)

Bid Security. A certified check, cashier's check, or other obligation of a bank, or a bid bond in substantially the form set forth in Section 00 43 13, Bid Security Form for at least five (5) percent of the Base Bid Subtotal, shall be submitted with this Bid.

Apprenticeship Requirements. For Bids greater than one million (\$1,000,000) dollars, the apprentice labor hours required for this project are fifteen (15) percent of the total labor hours. The Bidder agrees to utilize this level of apprentice participation.

2 C.F.R. 200-321, as appropriate and to the greatest extent practicable under this project, contracting with small and minority businesses, women's business enterprises and labor surplus area firms.

Name of Firm	Date
Signature	By Title
Mailing Address	City, State Zip Code
Telephone Number	Email Address
WA State Contractor's License No.	Employment Security Department No.

Identification of Bidder as a sole proprietor, a partnership, a joint venture, a corporation, or another described form of legal entity

END OF SECTION

PART 1 - GENERAL

1.01 SCOPE

A. The accompanying Drawings and Specifications show and describe the location and type of Work to be performed under this project. Work is more specifically defined on the drawings listed in Section 00 01 15.

1. The Work under this contract is to provide, furnish and install all labor, materials and equipment required to complete the work, installed, tested, and ready for use, and as described in these documents.
2. The Thorne Rd Off Dock Container Yard consists of but is not limited to:
[1] Selective site demolition; clearing and grubbing; removal of asphalt pavement; installation of domestic water, fire water, sewer, natural gas, power and stormwater utilities; grading; asphalt paving; ~~pavement markings~~; concrete placement; installation of curb, gutter and sidewalk; landscaping, installation of an at grade railroad crossing including track work; chain link fencing; installation of a self contained pressure washing facility; installation of pre-fabricated guard shelter; installation of a tent style maintenance shelter; street lighting. Work will be conducted on Port owned property, City of Tacoma Right-of-Way and Tacoma Rail track.

1.02 LOCATION

A. The work is located at:
1702 Port of Tacoma Road
Tacoma, WA 98421

[1] 1.03 WORK PERFORMED BY PORT MAINTENANCE

A. Port Maintenance has elected to perform all pavement marking required for this project. Contractor shall coordinate with the Project Manager and Maintenance Lead for scheduling the application of the pavement markings. Port Maintenance is responsible for all work required to layout and perform the application of the pavement markings will.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

END OF SECTION

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PART 1 - GENERAL

1.01 SUMMARY

- A. Procedures for preparation and submittal of applications for progress payments.

1.02 PAYMENT PROCEDURES

- A. Monthly pay estimates shall clearly identify the work performed for the given time period based on the approved Schedule of Values.

1. At the Pre-construction meeting, the Engineer and the Contractor shall agree upon a date each month when payment applications shall be submitted.

- B. For each pay estimate the Contractor shall submit the following:

1. Completed Contractor invoice and updated Schedule of Values tracking sheet as required by Division 01 or as established by the Engineer.
2. Baseline Project Schedule and narrative updated as required by Section 01 32 16 of the Project Manual.
3. Completed "Amounts Paid to Subcontracts and Suppliers" showing total contract amount, amount paid this estimate, total paid to date, and balance owing.
4. Completed "Conditional Release and Waiver of Liens and Claims."
5. An estimated cashflow statement projecting the Contractor's monthly billings on the project shall be submitted with each payment application.

- C. Prior to submitting a payment application, the Contractor and Engineer shall meet each month to review the work accomplished to determine the actual quantities including labor, materials and equipment charges to be billed.

1. Prior to the payment application meeting, the Contractor shall submit to the Engineer all measurement documentation as referenced in these contract documents; to include all measurement by weight, volume or field.
2. For all change work being done on a force account basis, the Contractor shall submit prior to meeting with Engineer all Force Account back-up documentation as required to process the payment application where Force Account work is being billed. The Engineer and the Contractor shall review the documentation at the payment application meeting to verify quantities and review the work accomplished.
3. The Contractor shall bring a copy of all documentation to the pay application meeting with the Engineer.
4. The Contractor shall submit the updated baseline project schedule for review prior to submitting the payment application to ensure the payment processing is not held up due to necessary schedule revisions.

- D. Following the Engineers' review, the Contractor shall submit the agreed upon pay estimate electronically, with complete supporting documentation, using Microsoft Dynamics 365, or as directed by Engineer.

1.03 PAYMENT PRICING

- A. Pricing for the various lump sum or unit prices in the Bid Form, as further specified herein, shall include all compensation to be received by the Contractor for furnishing all tools, equipment, supplies, and manufactured articles, and for all labor, operations, and incidentals appurtenant to the items of work being described, as necessary to complete the various items of the work in accordance with the requirements of the Contract Documents.
- B. Pricing also includes all costs of compliance with the regulations of public agencies having jurisdiction, including safety and health requirements of the Occupational Safety and Health Administration of the U.S. Department of Labor (OSHA).
- C. No separate payment will be made for any item that is not specifically set forth in the Bid Form, and all costs therefore shall be included in the prices named in the Bid Form for the various appurtenant items of work.
- D. All other work not specifically mentioned in the measurement and payment sections identified below shall be considered incidental to the work performed and merged into the various unit and lump sum prices bid. Payment for work under one item will not be paid for under any other item.
- E. The Port of Tacoma reserves the right to make changes should unforeseen conditions necessitate such changes. Where work is on a unit price basis, the actual quantities occasioned by such changes shall govern the compensation.

1.04 LUMP SUM MEASUREMENT

- A. Lump sum measurement will be for the entire item, unit of Work, structure, or combination thereof, as specified and as indicated in the Contractor's submitted bid.
 - 1. If the Contractor requests progress payments for lump sum items, such progress payments will be made in accordance with an approved Schedule of Values. The quantity for payment for completed work shall be an estimated percentage of the lump sum amount, agreed to between the Engineer and Contractor, payable in monthly progress payments in increments proportional to the work performed in amounts as agreed between the Engineer and the Contractor.

1.05 MEASUREMENT OF QUANTITIES FOR UNIT PRICES

- A. Measurement Standards:
 - 1. All Work to be paid for at a contract price per unit measurement, as indicated in the Contractor's submitted bid, will be measured by the Engineer in accordance with United States Standard Measures.
- B. Measurement by Weight:
 - 1. Reinforcing steel, steel shapes, castings, miscellaneous metal, metal fabrications, and similar items to be paid for by weight shall be measured by scale or by handbook weights for the type and quantity of material actually furnished and incorporated into the Work.

2. Unless shipped by rail, material to be measured and paid for by weight shall be weighed on sealed scales regularly inspected by the Washington State Department of Agriculture's Weights and Measures Section or its designated representative. Measurement shall be furnished by and at the expense of the Contractor. All weighing, measuring, and metering devices shall be suitable for the purpose intended and shall conform to the tolerances and specifications as outlined in Washington State Department of Transportation Standard Specifications, Division 1, General Requirements, Article 1-09.2, Weighing Equipment.
3. Provide or utilize platform scales of sufficient size and capacity to permit the entire vehicle or combination of vehicles to rest on the scale platform while being weighed. Combination vehicles may be weighed as separate units provided they are disconnected while being weighed. Scales shall be inspected and certified as often as the Engineer may deem necessary to ascertain accuracy. Costs incurred as a result of regulating, adjusting, testing, inspecting, and certifying scales shall be borne by the Contractor.
4. A licensed weighmaster shall weigh all Contractor-furnished materials. The Engineer may be present to witness the weighing and to check and compile the daily record of such scale weights. However, in any case, the Engineer will require that the Contractor furnish weight slips and daily summary weigh sheets. In such cases, furnish a duplicate weight slip or a load slip for each vehicle weighed, and deliver the slip to the Engineer at the point of delivery of the material.
5. If the material is shipped by rail, the certified car weights will be accepted, provided only actual weight of material will be paid for and not minimum car weights used for assessing freight tariff. Car weights will not be acceptable for material to be passed through mixing plants. Material to be measured by weight shall be weighed separately for each bid item under which it is to be paid.
6. Trucks used to haul material being paid for by weight shall be weighed empty daily and at such additional times as the Engineer may require. Each truck shall bear a plainly legible identification mark. The Engineer may require the weight of the material be verified by weighing empty and loaded trucks on such other scales as the Engineer may designate.

C. Measurement by Volume:

1. Measurement by volume will be by the cubic dimension indicated in the Contractor's submitted bid. Method of volume measurement will be by the unit volume in place or removed as shown on the Contract Drawings or as specified.
2. When material is to be measured and paid for on a volume basis and it is impractical to determine the volume by the specified method of measurement, or when requested by the Contractor in writing and accepted by the Engineer in writing, the material may be weighed in accordance with the requirements specified for weight measurement. Such weights will be converted to volume measurement for payment purposes. Factors for conversion from weight measurement to volume measurement will be determined by the Resident Engineer and shall be agreed to by the Contractor before such method of measurement of pay quantities will be accepted.

D. Measurement by Area: Measurement by area will be by the square dimension shown on the Contract Drawings or as specified. Method of square measurement will be as specified.

E. Linear Measurement: Linear measurement will be by the linear dimension listed or indicated in the Contractor's submitted bid. Unless otherwise indicated, items, components, or Work to be measured on a linear basis will be measured at the centerline of the item in place.

F. Field Measurement for Payment:

1. The Contractor shall take all measurements by providing equipment, workers, and survey crews as required to measure quantities in accordance with the provisions for measurement specified herein. No allowance will be made for specified tolerances.
2. The Engineer will verify all quantities of Work performed by the Contractor on a unit-price basis, for progress payment purposes.

1.06 REJECTED, EXCESS, OR WASTED MATERIALS

A. Quantities of material wasted or disposed of in a manner not called for under the Contract; rejected loads of material, including material rejected after it has been placed by reasons of the failure of the Contractor to conform to the provisions of the Contract; material not unloaded from the transporting vehicle; material placed outside the lines indicated on the Contract Drawings or established by the Engineer; or material remaining on hand after completion of the Work, will not be paid for, and such quantities shall not be included in the final total quantities. No additional compensation will be permitted for loading, hauling, and disposing of rejected material.

1.07 MEASUREMENT AND PAYMENT

A. Item #1: Mobilization and Demobilization

1. Payment for Mobilization and Demobilization shall be for preparatory work and operations performed by the Contractor including, but not limited to, those necessary for the movement of its personnel, equipment, supplies and incidentals to and from the project site; temporary facilities and controls; for the establishment and removal of its offices, buildings and other facilities necessary for work on the project; for other work and operations which it must perform or costs it must incur before beginning production work on the various items on the project site, and for removal of personnel, equipment, supplies, offices, building facilities, sheds, fencing, and other incidentals from the site.
2. Mobilization and Demobilization shall be paid at the lump sum price listed in the Contractor's submitted bid. Incremental payment shall be made for each location as follows:
 - a. 40% after completion of 5% of the total contract amount of other bid items have been earned.
 - b. 40% after completion of 20% of the total contract amount of other bid items have been earned.
 - c. 20% after completion of all work on the project has been completed, including cleanup and acceptance of the project by the Port.

B. Item #2: Project Administration

1. Item Description: The Work of this item includes all administrative costs associated with administering and supervising the project including, but not limited to supervision of personnel, coordination of all work activities, coordination of subcontractors and/or suppliers, preparation and transmittal of submittals, permit acquisitions, for premiums on bonds and insurance for the project, and project overhead.
2. Measurement: This item will be measured based on a percentage complete for the overall lump sum amount.

3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted bid, in accordance with the approved Schedule of Values.
- C. Item #3: Demolition and Removal.
 1. Item Description: Work includes the removal, wholly or in part, and satisfactory disposal of all utilities, fences, pavements, curbs, structures, or other features identified within these specifications and on the plans. This item is for demolition and removal on Port property only.
 2. Measurement: This item will be measured based on a percentage complete for the overall lump sum amount.
 3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.
- D. Item #4: Field Engineering.
 1. Item Description: The Work of this item includes all work necessary for Field Engineering, verifying survey reference points, completion of pre and post-construction surveys, and installation and removal of temporary control as described in these Specifications.
 2. Measurement: This item will be measured based on a percentage complete for the overall lump sum amount.
 3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.
- E. Item #5: Clearing and Grubbing.
 1. Item Description: Work of this item includes all labor, equipment, materials, and incidentals associated with clearing and grubbing the site. The work includes removal of vegetative materials, removal of roots, grubbing existing grade as indicated on the plans and in the specifications.
 2. Measurement: This item will be measured based on a percentage complete for the overall lump sum amount.
 3. Payment: This item will be paid for at the Contract price and Percent complete as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.
- F. Item #6: Earthwork.
 1. Item Description: Work of this item includes all labor, equipment, materials, and incidentals associated with earthwork at the site. The work includes furnish and placement of imported fill material; site rough and final grading; compaction other work required to provide the subgrade area as indicated on the plans and in the specifications.
 2. Measurement: This item will be measured by TON based on imported fill tonnage brought to the site and placed per plans and specifications.
 3. Payment: This item will be paid for at the contract price per TON shown in the contractor's submitted proposal.
- G. Item #7: Reefer Area.

1. Item Description: Work of this item includes all labor, equipment, materials, and incidentals associated with site features at the refer wash and valet area. The work includes placing the concrete curbs in the reefer valet and washdown area, wheel stops, ACP containment and reefer area improvements as shown in the specifications and plans.
2. Measurement: This item will be measured based on a percentage complete for the area constructed.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

H. Item #8: Chassis Repair Hut.

1. Item Description: This Work shall consist of constructing a chassis repair Quonset hut in accordance with the specifications and plans. The work includes utility connections as shown.
2. Measurement: This item will be measured based on the lump sum amount.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

I. Item #9: Guard Shelter.

1. This Work shall consist of furnishing and installing a guard shelter in accordance with the specifications and plans. The work includes utility connections as shown.
2. Measurement: This item will be measured based on the lump sum amount.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

J. Item #10: Electrical – Area 1 and Area 2.

1. Item Description: This work shall include the construction of the complete electrical and communications systems in the Areas 1 and 2 shown in plans and herein specified, including excavation, backfilling, concrete foundations, conduit, wiring, ducts, lights and supports and all other features required for the completed electrical systems.
2. Measurement: This item will be measured based on a percentage complete for the overall lump sum amount.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

K. Item #11: Electrical – RR Crossing.

1. Item Description: This work shall include the construction of the complete electrical system at the proposed railroad crossing shown in plans and herein specified, including excavation, backfilling, concrete foundations, conduit, wiring, ducts, lights and supports and all other features required for the completed electrical systems.
2. Measurement: This item will be measured based on a percentage complete for the overall lump sum amount.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

L. Item #12: Electrical – Area 3.

1. Item Description: This work shall include the construction of the complete electrical and communications systems in the Area 3 shown in plans and herein specified, including excavation, backfilling, concrete foundations, conduit, wiring, ducts, lights and supports and all other features required for the completed electrical systems.
2. Measurement: This item will be measured based on a percentage complete for the overall lump sum amount.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

M. Item #13: Coarse Aggregate Base .

1. Item Description: Work of this item includes all labor, equipment, materials, and incidentals associated with import, placement and compaction of crushed aggregate base as indicated on the plans and in the specifications.
2. Measurement: This item will be measured by ton based on imported fill tonnage brought to the site and placed per plans and specifications.
3. Payment: This item will be paid for at the contract price per ton shown in the contractor's submitted proposal.

N. Item #14: Asphalt Paving.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the preparation, hauling, placing, spreading, and compacting of asphalt course(s) as specified or shown.
2. Measurement: This item will be measured on a TON basis for pavement completed, tested, and accepted.
3. Payment: This item will be paid per TON.

[1] O. ~~Item #15: Pavement Markings.~~

- ~~1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the preparation, layout, and application of pavement markings including striping, lettering, and numbering as specified or shown.~~
- ~~2. Measurement: This item will be measured based on a percentage complete for the overall lump sum amount.~~
- ~~3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.~~

P. Item #16: Chain Link Fences.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the layout of site fence as specified or shown.
2. Measurement: This item will be measured based on lineal feet installed in place.
3. Payment: This item will be paid for at the Contract price per lineal foot price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

Q. Item #17: Gates 30'.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the construction of 30' gates as specified or shown.

2. Measurement: This item will be measured based on the number of gates installed and approved.
3. Payment: This item will be paid for at the Contract price per gate as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

R. Item #18: Sliding Gate 30'.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the construction of 30' sliding gate as specified or shown.
2. Measurement: This item will be measured for gate installed and approved.
3. Payment: This item will be paid for at the Contract price per gate as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

S. Item #19: Gate 24'.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the construction of 24' gate as specified or shown.
2. Measurement: This item will be measured for gate installed and approved.
3. Payment: This item will be paid for at the Contract price per gate as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

T. Item #20: Misc Site Concrete, Barriers and Bollards.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the preparation, layout, and construction of all site features as specified or shown. This item includes but is not limited to items such as; bollards, protective cages, concrete barriers, concrete slabs and other items not specifically called out in other Work items.
2. Measurement: This item will be measured based on a percentage complete for the overall lump sum amount.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

U. Item #21: Fire Protection System.

1. Item Description: This item shall be full pay for all Work to complete the installation of the water main and hydrants, including but not limited to, bedding, laying, and jointing of pipe and fittings, backfilling, concrete thrust blocking, testing, disinfecting of the pipeline, flushing, de- chlorination of water used for flushing, and cleanup; fire hydrants; and other related items as shown or specified. This item also includes the Knox boxes and signage required for Fire Department access at the main and emergency gates.
2. Measurement: This item will be measured based on a percentage complete for the overall lump sum amount.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

V. Item #22: Water System.

1. Item Description: This item shall be full pay for all Work including but not limited to the installation and testing of the water main, meters, backflow valves, and valves, bedding, laying, and jointing of pipe and fittings, backfilling, concrete thrust blocking, testing, disinfecting of the pipeline, flushing, de- chlorination of water used for flushing, and cleanup; and other related items as shown or specified.
2. Measurement: This item will be measured based on a percentage complete for the overall lump sum amount.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

W. Item #23: Reefer Recirculation Equipment and Enclosure.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the construction, placement and activation of reefer wash recirculation equipment and enclosure including all pipe, shipping container enclosure, footings, storage tank, wash hose connections and all related components for the completed system and commissioning as specified or shown.
2. Measurement: This item will be measured for system installed and approved.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

X. Item #24: Sanitary Sewer System.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the construction, placement and testing of all pipe, cleanouts, structures, sump pumps, and building connections and all related components for the completed system as specified or shown.
2. Measurement: This item will be measured for system installed and approved.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

Y. Item #25: Onsite Stormwater Gravity Conveyance .

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the construction, and testing of all pipe, structures, connections and other components for the completed system as specified or shown. This work does not include construction of BMT stormwater treatment system.
2. Measurement: This item will be measured for system installed and approved.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

Z. Item #26: Onsite Stormwater Treatment System .

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the construction of all pipe, structures, connections, liner, concrete structures, filtration media, and other components for the completed system as specified or shown.
2. Measurement: This item will be measured for system installed and approved.

3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

AA. Item #27: Rail Crossing.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the construction of the railroad crossing including but not limited to removal of existing track and OTM, excavation for crossing, installation of empty casings, fill and compaction of subgrade, reconstruction of track to standards, and paving for the complete crossing as specified or shown.
2. Measurement: This item will be measured for crossing installed and approved.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

BB. Item #28: Traffic Control Measures.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the Contractor provided traffic control plan required for work in the City of Tacoma right-of-way.
2. Measurement: This item will be measured completed measures.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

CC. Item #29: Sawcut and Removal of Existing Pavement, Curb and Sidewalk.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the sawcut, removal, and cleanup from demolition of existing features as specified or shown.
2. Measurement: This item will be measured completed demolition.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

DD. Item #30: Concrete Sidewalk.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the placement of concrete sidewalk as specified or shown.
2. Measurement: This item will be measured in square yards (SY) based on the area of sidewalk constructed.
3. Payment: This item will be paid for at the Contract price per square yard as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

EE. Item #31: Concrete Curb and Gutter.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the placement of concrete curb and gutter as specified or shown.
2. Measurement: This item will be measured in lineal feet based on length of curb constructed.
3. Payment: This item will be paid for at the Contract price per lineal foot as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

FF. Item #32: Street Lighting System.

1. Item Description: This Work includes all labor, equipment, materials, trenching, backfilling, structures, ducts and wiring, and incidentals associated with the construction of the street lighting system, and other components for the completed system as specified or shown.
2. Measurement: This item will be measured for system installed and approved.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

GG. Item #33: Landscape.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the construction of the right of way landscaping, and other components for the completed system as specified or shown.
2. Measurement: This item will be measured for landscaping installed and approved.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

HH. Item #34: Offsite Stormwater Gravity Conveyance and Treatment.

1. Item Description: This Work includes all labor, equipment, materials, trenching, backfilling, and incidentals associated with the construction, and testing of all pipe, structures, connections and other components for the completed system as specified or shown. This item includes temporary patching of trenches or street plating in the roadway.
2. Measurement: This item will be measured for system installed and approved.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

II. Item #35: Coarse Aggregate Base .

1. Item Description: Work of this item includes all labor, equipment, materials, and incidentals associated with import, placement and compaction of crushed aggregate base as indicated on the plans and in the specifications.
2. Measurement: This item will be measured by ton based on imported fill tonnage brought to the site and placed per plans and specifications.
3. Payment: This item will be paid for at the contract price per ton shown in the contractor's submitted proposal.

JJ. Item #36: Asphalt Concrete Pavement - Street.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the preparation, hauling, placing, spreading, and compacting of asphalt course(s) as specified or shown.
2. Measurement: This item will be measured on a TON basis for pavement completed, tested, and accepted.
3. Payment: This item will be paid per TON.

KK. Item #37: Cement Concrete Pavement - Street.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the placement of cement concrete pavement as specified or shown.

2. Measurement: This item will be measured in square yards (SY) based on the area of sidewalk constructed.
3. Payment: This item will be paid for at the Contract price per square yard as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

LL. Item #38: Cement Concrete Driveway.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the placement of cement concrete driveway as specified or shown.
2. Measurement: This item will be measured in square yards (SY) based on the area of sidewalk constructed.
3. Payment: This item will be paid for at the Contract price per square yard as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

MM. Item #39: Sidewalk Ramps.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the construction of sidewalk ramps as specified or shown.
2. Measurement: This item will be measured based on the number of sidewalk ramps constructed and approved.
3. Payment: This item will be paid for at the Contract price per ramp as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

[1] ~~NN. Item #40: Pavement Markings.~~

- ~~1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the preparation, layout, and application of pavement markings including striping, lettering, and numbering as specified or shown.~~
- ~~2. Measurement: This item will be measured based on a percentage complete for the overall lump sum amount.~~
- ~~3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.~~

OO. Item #41: Rail Crossing - Pedestrian.

1. Item Description: This Work includes all labor, equipment, materials, and incidentals associated with the preparation, layout, and installation of concrete sidewalk, asphalt crossing, detectable surfaces and other as specified or shown.
2. Measurement: This item will be measured based on a percentage complete for the overall lump sum amount.
3. Payment: This item will be paid for at the Contract lump sum price as specified in the Contractor's submitted proposal, in accordance with the approved Schedule of Values.

PP. Item #42: Unforeseen Conditions Allowance.

1. Item Description: This allowance will be for Unforeseen Conditions for work unidentified at the time of bid and will be paid as negotiated unit price(s) or lump sum(s). If unit prices or lump sums cannot be established, work will be paid on a time and materials basis per Section 00 72 00 General Conditions Article 8.0. Work under this bid item shall be accomplished upon written direction from the Engineer as a Minor Change in Work. The entire bid item may or may not be used.

2. Measurement: This item will be measured based upon the method agreed upon for each Minor Change issued.
3. Payment: This item will be paid for at the price agreed upon for each Change in Work issued by the Engineer in accordance with procedures noted in Section 01 26 00 – Change Management Procedures.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

END OF SECTION

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DIVISION 32 – EXTERIOR IMPROVEMENTS
SECTION 32 12 16 - ASPHALT PAVING

PART 1 - GENERAL

1.01 SCOPE

- A. The work covered by this Section includes the furnishing of all labor, materials, equipment and necessary services to construct asphalt pavements to the sections and at the locations as specified in this Section and as indicated on the Contract Drawings.

1.02 REFERENCES

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.
- B. Unless otherwise indicated, the most recent edition of the publication, including any revisions, shall be used.
- C. American Association of State Highway and Transportation Officials (AASHTO)
 - 1. AASHTO M 17 – Mineral Filler for Bituminous Paving Mixtures
 - 2. AASHTO M 332 – Performance-Graded Asphalt Binder Using Multiple Stress Creep Recovery (MSCR) Test
 - 3. AASHTO T 11 – Materials Finer Than 75 μm (No. 200) Sieve in Mineral Aggregates by Washing
 - 4. AASHTO T 27 – Sieve Analysis of Fine and Coarse Aggregates
 - 5. AASHTO T 30 – Mechanical Analysis of Extracted Aggregate
 - 6. AASHTO T 96 – Resistance to Degradation of Small-Size Coarse Aggregate and Impact in the Los Angeles Machine
 - 7. AASHTO T 112 – Clay Lumps and Friable Particles in Aggregate
 - 8. AASHTO T164 – Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)
 - 9. AASHTO T 176 – Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test
 - 10. AASHTO T 283 – Resistance of Compacted Hot-Mix Asphalt (HMA) Mixtures to Moisture-Induced Damage
 - 11. AASHTO T 304 – Uncompacted Void Content of Fine Aggregate
 - 12. AASHTO T308 – Determining the Asphalt Binder Content of Hot Mix Asphalt (HMA) by the Ignition Method
 - 13. AASHTO T 335 – Determining the Percentage of Fracture in Coarse Aggregate

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- D. American Society for Testing and Materials (ASTM)
 - 1. ASTM D75 – Sampling Aggregates
 - 2. ASTM D242 – Mineral Filler for Bituminous Paving Mixtures
- E. Washington State Department of Transportation (WSDOT)
 - 1. Construction Manual, M 41-01
 - 2. Standard Specifications for Road, Bridge and Municipal Construction, M 41-10
 - 3. Materials Manual, M 46-01
- F. City of Tacoma (for WO work within City Right of Way)
 - 1. Standard Plan SU-15
 - 2. City of Tacoma Right-of-Way Design Manual

1.03 SUBMITTALS

- A. A separate job mix formula for each proposed mix design shall be submitted.. Submittals shall represent all submittal elements specified herein and shall include as a minimum:
 - 1. Mix designation/identification number.
 - 2. Plant where mix will be produced.
 - 3. Performance Graded Binder Certified Test Reports
 - a. Source location and type of binder.
 - b. Certificate of Compliance, including date and signature of the supplier, regarding conformance with AASHTO M 332, Table 1.
 - c. Compliance with WSDOT elastic recovery requirements in Section 9-02.1(4)
 - d. Temperature-viscosity relationship of the asphalt cement.
 - e. Minimum mixing temperature (degrees F).
 - f. Minimum compaction temperature (degrees F).
 - 4. Coarse Aggregate Certified Test Reports:
 - a. Source location and type of aggregate.
 - b. Fractured Faces.
 - c. Bulk specific gravity.
 - d. LA Abrasion.
 - 5. Fine Aggregate Certified Test Reports:
 - a. Source location and type of aggregate.

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- b. Bulk specific gravity.
- c. Percent natural sand (if used).
- d. Sand equivalent.
- e. Uncompacted void content.

6. Anti-strip agent:

- a. Certification.
- b. Amount used.

7. Recycled Asphalt Pavement Test Reports (if used)

8. Percentage and grade of performance graded asphalt binder.

9. Proportions and percentage of each aggregate stockpile.

10. Temperature range of mix when discharged from the mixer.

11. Plot of the blended aggregate gradation and gradation control points on the Federal Highway Administration (FHWA) 0.45 power gradation curve.

12. Maximum specific gravity at the target binder content.

13. Air void content at the target binder content.

14. Graphical plots of air voids, voids in the mineral aggregate, voids filled with asphalt, fines to effective binder content ratio, and unit weight versus asphalt content. Plots shall indicate values at -0.5 percent design asphalt content, design asphalt content, and +0.5 percent design asphalt content.

15. Tensile strength ratio (TSR), strength of conditioned samples, and worksheets (Hveem).

B. The certification(s) shall show the appropriate AASHTO/ASTM test(s) for each material, test results, and a statement that the material meets the specification requirement.

C. If requested by the Engineer, submit samples for each type aggregate to be used and from each source with proper identification as to source, type of aggregate and contract number. Take all samples in accordance with requirements of ASTM D75 and D242. Submit in clean, sturdy bags and in the following amounts for each sample when requested:

MATERIAL	SAMPLE SIZE
Coarse Aggregate	25 lbs.
Fine Aggregate	25 lbs.
Reclaimed Asphalt Pavement	25 lbs.
Mineral Filler	5 lbs.

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- D. The job mix formula for each mixture shall be in effect until modified in writing by the Engineer. Should a change in mix or sources of materials be made, a new job mix formula must be tested and resubmitted for approval by the Engineer before the new mix is used.
- E. Working Drawings: For each paving area, provide working drawings to show the following information:
 - 1. Direction of paving.
 - 2. Width of each pass.
 - 3. Thickness of each lift.
- F. Submit smoothness measurements and surface grade survey results to the Engineer prior to application for payment.

1.04 CONTRACTOR QUALITY CONTROL

- A. The Contractor shall be responsible for developing the asphalt mix designs specified herein. The mix designs shall be developed and/or certified by a laboratory accredited by AASHTO under the AASHTO resource program.
- B. Quality Control Testing: The Contractor shall conduct any and all quality control (QC) testing that he deems necessary to properly control the quality, consistency, and uniformity of the asphalt concrete mix being produced. No minimum number of quality control tests is required for this Contract.
- C. If the Contractor chooses to conduct quality control tests, the information and data determined through that testing shall be made available for inspection by the Engineer. In no case, however, shall the Contractor's quality control test data be used by the Engineer for acceptance or payment purposes.
- D. Surface Grades: Grades shall conform to the tolerance requirements specified herein, except where closer tolerance is required for the proper functioning of appurtenant structures and drainage as determined by the Engineer.

1.05 QUALITY ASSURANCE

- A. The Engineer will provide inspection services. Sampling and testing for compliance shall be in accordance with the applicable reference standards using certified technicians and accredited independent testing laboratories.
- B. The Contractor may obtain copies of results of tests performed by the Owner, at no cost. Tests conducted for the sole benefit of the Contractor, shall be at the Contractor's expense.
- C. Unless otherwise referenced or modified herein, quality control and quality standards for this section shall be as specified in the WSDOT Standard Specifications.

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1.06 JOB CONDITIONS

- A. Environmental Requirements:
 - 1. Weather limitations shall be in accordance WSDOT Standard Specifications Section 5-04.3(3), as modified herein.
 - 2. In case of sudden rain, the Engineer may permit placing of mixture then in transport from the plant provided that the surface upon which the mix is being placed is free from pools of water. In addition, the laydown temperatures must conform to the above requirements. Such permission, however, shall not be interpreted as a waiver of any of the quality requirements.
- B. New and existing manholes, catch basins, and utility vault covers shall be adjusted to conform to the new pavement grades. Paving shall be finished 1/4-inch to 1/2-inch higher than adjacent structures, unless otherwise shown or specified.
- C. Existing Underground Utilities: The Contractor shall locate existing underground utilities in the area of the work. Those utilities which are to remain shall be adequately protected from damage.
- D. All permanent utilities shall be installed prior to final paving. All utility trenches shall be patched with asphalt pavement as shown on the Contract Drawings.
- E. Dust Control: The Contractor shall be responsible for dust control at the site. As a minimum, a water truck and vacuum truck shall be used on site for dust control when required by the Engineer.

PART 2 - PRODUCTS

2.01 SCOPE

- A. Asphalt for the yard and driveways shall conform to the requirements of AASHTO M 332, Table 1 and the elastic recovery requirements of WSDOT Standard Specification Section 9-02.1(4) for the Performance Grade specified herein.
- B. All work within the City right of way (Work Order Plans) shall conform to City of Tacoma Standard Plan SU-15A.

2.02 AGGREGATE

- A. Coarse Aggregate – Coarse aggregate shall conform to WSDOT Standard Specification Section 9-03.8, as modified below:

Test	Specification
Coarse Aggregate Angularity (AASHTO T 335)	90% with 2 or more fractured faces

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B. Fine Aggregate - Fine aggregate shall consist of clean, sound, durable, angular shaped particles produced by crushing stone or gravel that meets the requirements for wear and soundness specified for coarse aggregate. Natural (non-manufactured) siliceous sand may be used to obtain the gradation of the aggregate blend or to improve the workability of the mix. The amount of sand to be added will be adjusted to produce mixtures conforming to requirements of this Specification. The aggregate particles shall be free from coatings of clay, silt, or other objectionable matter and shall contain no clay balls. Fine aggregate shall conform to WSDOT Standard Specification Section 9-03.8, as modified below:

Test	Specification
Uncompacted Void Content (AASHTO T 304, Method A)	44%, minimum
Deleterious Materials (AASHTO T 112)	2%, maximum
Wood Waste Retained on a No. 4 Sieve (Specific Gravity < 1.0)	0.1%, maximum

C. Mineral filler, when used, shall conform to the requirements of AASHTO M 17.

D. Recycled Asphalt Pavement (RAP)

1. RAP, if used, shall conform to the requirements of WSDOT Standard Specification Section 9-03.8(3)B, 9-03.21(1) and 9-03.21(1)A, as modified herein.
2. The maximum proportion of RAP permitted within each mix shall not exceed 20 percent.
3. RAP shall have 100 percent passing the 2-inch sieve, 95 percent passing the 1 inch sieve, and shall be a mixture of only coarse aggregate, fine aggregate, and asphalt cement, free of solvents and other contaminating materials.
4. When RAP is used in a mixture, the RAP aggregate shall be extracted from the RAP using a solvent extraction (AASHTO T164) or ignition oven (AASHTO T308). The RAP aggregate shall be included in determinations of gradation, coarse aggregate angularity, and fine aggregate angularity. The sand equivalent requirements shall be waived for the RAP aggregates but shall apply to the remainder of the aggregate blend.
5. Documentation of RAP stockpile quality and traceability shall be submitted to the Engineer for approval prior to use.

E. Aggregate Gradation

Each gradation contains maximum and minimum control points. Job mix formula gradations must fall within control points for the specified nominal aggregate size. The combined aggregate shall conform to the gradation requirements shown below when tested in accordance with AASHTO T 11 and T 27. Design gradation requirements are as follows from WSDOT Table 9-03.1(5)B

Nominal Maximum Aggregate Size	1	1/2
3½"		
3"		
2½"		
2"		
1½"	99-100	
1"	82-100*	
¾"		99-100
½"	57-83	81-100*
⅜"		
No. 4	34-54	48-73
No. 8	22-39	31-54
No. 16	14-29	20-39
No. 30	8-21	11-29
No. 50	3-15	5-21
No. 100	0-11	0-15
No. 200	0-2.0	0-2.0

1. Aggregates shall be provided in sufficient sizes to produce a uniform mixture. The Contractor shall indicate on the proposed job-mix formula the separate size designations of aggregate to be used.
2. It is recommended that the Bailey Method of gradation evaluation be used to evaluate the packing of aggregate particles and constructability of the blended aggregate mix. If segregation or non-uniformity is evident in the finished pavement, the Engineer reserves the right to require the Contractor to discontinue the use of crusher run or aggregate blends and to furnish separate sizes of open graded aggregate material.

2.03 HVEEM HOT MIX ASPHALT (HMA) MIX DESIGN

- A. Mix design shall be prepared using the Hveem mix design method in accordance with the 2011 WSDOT Materials Manual Test Method T 702, 2011 WSDOT Materials Manual Test Method T 703, and the 2002 WSDOT Standard Specifications, as modified herein. The 2011 WSDOT Materials Manual and the 2002 WSDOT Standard Specifications are referenced for mix design purposes only and the current edition of the WSDOT Standard Specifications is applicable to all other references.

DIVISION 32 – EXTERIOR IMPROVEMENTS
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- B. Asphalt Binder: PG 58V-22.
- C. Surface Course Class 1/2", PG70-22
- D. Base Course Class 1", PG64-22
- E. Stabilometer Value: 35, minimum.
- F. Cohesiometer Value: 100, minimum.
- G. Air Voids: 2% – 4.5%.
- H. The dust to binder ratio of the blended mix shall be between 0.6 and 1.6.
- I. Compacted mix design shall have a tensile strength ratio (TSR) greater than or equal to 85 percent when tested in accordance with WSDOT Test Method T718, including the freeze-thaw cycle. In addition, the mixture shall have a minimum wet tensile strength of 80 pounds per square inch (psi). In the event the mix design does not meet the tensile strength requirements the Contractor shall increase the approved anti-stripping agent dosage or take other corrective action to satisfy the specification.

2.04 HEAT-STABLE ANTI-STRIPPING ADDITIVE

- A. Mix designs shall include a minimum of 0.1 percent by weight binder, anti-stripping additive conforming to the requirements of WSDOT Standard Specification Section 9-02.4.

2.05 HMA Additive

- A. An approved HMA Additive, to assist field compaction, meeting Section 9-02.5 of WSDOT Specifications, may be accepted by the Engineer.

2.06 TACK COAT

- A. Unless otherwise approved by the Engineer, the tack coat shall be CSS-1, CSS-1h, or STE-1 emulsified asphalt conforming to WSDOT Standard Specification Section 9-02.1(6). The CSS-1 and CSS-1h emulsified asphalt may be diluted with water at a rate not to exceed one part water to one part emulsified asphalt. The tack coat shall not exceed the maximum temperature recommended by the emulsified asphalt manufacturer.

2.07 JOINT AND CRACK SEALANT

- A. Sealant shall conform to the requirements of WSDOT Standard Specification Section 9-04.2(1).

PART 3 - EXECUTION

3.01 CONSTRUCTION METHODS

- A. Asphalt Mixing Plant – Asphalt shall be produced at a plant approved by the WSDOT. Plants shall conform to WSDOT Standard Specifications Section 5-04.3(3)A.
- B. Hauling Equipment:
 1. Hauling equipment shall conform to WSDOT Standard Specifications Section 5-04.3(3)B, as modified herein.
 2. Trucks shall be equipped with tarps, in good condition without holes, which can be tied down over the sides and ends of the truck beds during periods of inclement weather to prevent rain from entering the truck bed and coming in contact with the asphalt concrete mix.
 3. Trucks shall be loaded using a multiple-drop method (front then back then middle) to minimize truck to truck segregation.
- C. Paving Equipment – Asphalt pavers shall conform to WSDOT Standard Specifications Section 5-04.3(3)C.
- D. Compaction Equipment – Rollers shall conform to WSDOT Standard Specifications Section 5-04.3(3)E.
- E. Preparation of the Asphalt Binder Material (asphalt cement):
 1. The binder shall be stored within the temperature range specified by the supplier of the binder for the grade of asphalt cement being used. Different grades of asphalt binder shall be stored separately and not mixed together at any time.
 2. The binder shall be heated in a manner that will avoid local overheating and provide a continuous supply of the bituminous material to the mixer at a uniform temperature.
 3. The temperature of the binder delivered to the mixer shall be sufficient to provide a suitable viscosity for adequate coating of the aggregate particles, but shall not exceed 350 degrees F unless otherwise required by the asphalt binder manufacturer.
- F. Preparation of the Aggregates:
 1. The aggregate for the mixture shall be heated and dried prior to introduction into the mixer. The maximum temperature and rate of heating shall be such that no damage occurs to the aggregates.

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2. The aggregate temperature shall not be lower than is required to obtain complete coating and uniform distribution of the aggregate particles and to provide a mixture of satisfactory workability.

G. Preparation of Bituminous Mixture:

1. Mixing shall conform to WSDOT Standard Specifications Section 5-04.3(6), as modified herein.
2. The aggregates and the bituminous material shall be properly proportioned and introduced into the mixer in the amount specified by the job mix formula.
3. Job mix formula production tolerances shall conform to WSDOT Standard Specifications Section 9-03.8(7) (Statistical Evaluation), except the tolerance limits for aggregate shall not exceed the limits of the control points specified herein.
4. The moisture content of all bituminous mix upon discharge shall not exceed one (1) percent.

H. Preparation of the Underlying Surface:

1. Preparation shall conform to WSDOT Standard Specifications Sections 5-04.3(4), 5-04.3(4)A, and 5-04.3(5)C as modified herein.
2. Asphalt materials shall not be placed until the underlying course has been tested and accepted by the Engineer.
3. Immediately before placing asphalt materials, clean all underlying pavement surfaces and previous courses of all loose and foreign material by sweeping with hand brooms, power sweepers or blowers as directed by the Engineer.

4. Tack Coat:

- a. Tack coat shall be applied in accordance with WSDOT Standard Specifications Section 5-04.3(4)A, as modified herein. The Owner's inspector shall verify that the tack coat has been properly placed prior to constructing subsequent pavement lifts. Refer to the applicable sections in Chapter 5 of the WSDOT Construction Manual for guidance on tack coat application and inspection.
- b. Apply tack coat only when the underlying surface is dry, and the ambient temperature meets the requirements for the pavement course being placed.
- c. Residual asphalt coating shall be 0.03 to 0.05 gallons per square yard on newly placed asphalt surfaces
- d. Residual asphalt coating shall be 0.06 to 0.08 gallons per square yard on existing or milled asphalt surfaces.

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SECTION 32 12 16 - ASPHALT PAVING

5. Manholes, valve boxes, inlets, and other appurtenances within the area to be paved shall be adjusted to grade as shown on the Contract Drawings. Permanent curbs, gutters, and other supports shall be constructed and backfilled prior to placing asphalt. All contact surfaces shall be coated with tack coat.

I. Transporting, Placing, and Finishing:

1. The asphalt concrete mixture shall be transported from the mixing plant to the site in vehicles conforming to the requirements specified herein.
2. Hauling over freshly placed material shall be not permitted until the material has been compacted, as specified, and allowed to cool to atmospheric temperature.
3. Placing and finishing of the asphalt mixture shall be in accordance with WSDOT Standard Specifications Section 5-04.3(7), as modified herein.
4. The nominal compacted depth of any layer of any course shall not exceed 4.0 inches.
5. The hot mix asphalt mixture shall not be placed upon a wet surface or when the surface temperature of the underlying course is less than that specified below. The temperature requirements may be waived by the Engineer, if requested; however, all other requirements including compaction shall be met.

Lift Thickness, T (inches)	Minimum Base Temperature (degrees F)
$T > 3$	35
$2 < T < 3$	35
$T < 2$	45

6. The initial placement of the asphalt concrete mixture shall occur at a temperature suitable for obtaining density, surface smoothness, and other specified requirements but not less than 250 degrees F, unless approved by the Engineer.
7. Upon arrival, the mixture shall be placed to the full width of the paving lane. It shall be struck off in a uniform layer of such depth that, when the mix is properly compacted, shall have the required thickness and conform to the grade and contour indicated. The speed of the paver shall be regulated to eliminate pulling and tearing of the bituminous mat. Unless otherwise permitted, placement of the mixtures shall begin along the centerline of a crowned section or on the high side or areas with a one-way slope. The mixture shall be placed in consecutive adjacent strips having a minimum width of 10-feet except where edge lanes require less width to complete the area.
8. Compaction of the asphalt mixture shall be in accordance with WSDOT Standard Specifications Section 5-04.3(10), as modified herein.

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SECTION 32 12 16 - ASPHALT PAVING

- a. Each day's production will be treated as a lot. A minimum of five sublots will be tested. Sublot sizes will not exceed 20 tons. Random test locations will be determined according to WSDOT Test Method T 716.
- b. In-place density shall be a minimum of 93% of the reference theoretical maximum density as determined by WSDOT FOP for AASHTO T 209. Evidence of gauge calibration to cores, required in the test method, shall be provided for the approved job-mix being placed at a similar thickness or the gauge will be calibrated as described in the test method. Calibration cores may be omitted at the Engineer's discretion. At the Owner's discretion, cores can be used as the sole means of density acceptance with a testing frequency meeting the requirements of Section 8a.
- c. Determine reference theoretical maximum density as the moving average of the most recent five determinations for the lot of asphalt concrete being placed according to WSDOT Materials Manual Standard Operating Procedure 729.
- d. Engineer may evaluate cyclic density as described in WSDOT Standard Specifications Section 5-04.3(10)B to assess segregation.

9. Joints:

- a. The longitudinal joint in one course shall offset the longitudinal joint in the course immediately below by at least 6-inches; however, the joint in the surface course shall be at the centerline of the pavement if that pavement is to be used by normal car or truck traffic.
- b. Longitudinal joint density shall be assessed once per subplot in accordance with WSDOT SOP 735. Low density is defined as less than 91 percent of reference maximum density. When placing a single paver width patch, consecutive density tests will be taken on alternating sides of the patch.
- c. Transverse joints in one course shall be offset by at least 10-feet longitudinally from transverse joints in the previous course. Transverse joints in adjacent lanes shall be offset a minimum of 10-feet.

10. On areas where irregularities or unavoidable obstacles make the use of mechanical spreading and finishing equipment impractical, the mixture may be spread and raked by hand tools.

3.02 JOINT SEALANT

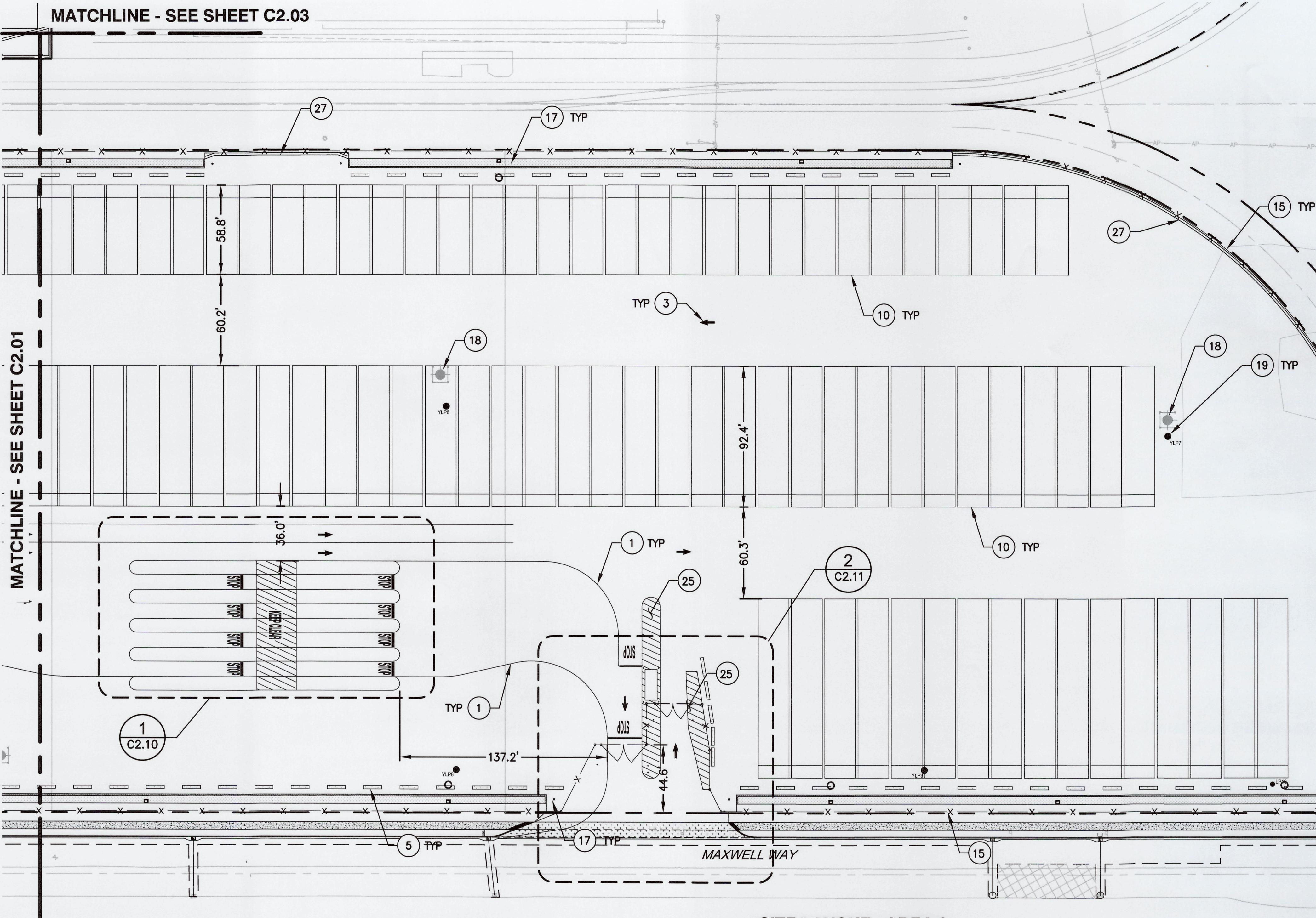
- A. Apply joint sealant to the edges of new paving joints, catch basins, manholes, at the meet lines to concrete structures and as directed by the Engineer.

DIVISION 32 – EXTERIOR IMPROVEMENTS
SECTION 32 12 16 - ASPHALT PAVING

3.03 SURFACE SMOOTHNESS

A. The completed surface of the wearing course shall conform to the smoothness tolerance requirements of WSDOT Standard Specifications Section 5-04.3(13).

END OF SECTION



KEY NOTES:

- 1 4" WIDE WHITE STRIPE
- 2 STOP BAR AND SYMBOL, SEE SHEET C2.12, DETAIL 1
- 3 CHANNELIZATION ARROW, SEE SHEET C2.12, DETAIL 2
- 4 RAILROAD CROSSING, SEE SHEET C2.08
- 5 TYPE II CONC TRAFFIC BARRIER, SEE SHEET C2.13, DETAIL 1
- 6 8" DIA BOLLARD, SEE SHEET C4.06, DETAIL 1
- 7 12" DIA BOLLARD, SEE SHEET C4.06, DETAIL 3
- 8 4' TRUCK WHEEL STOP, SEE SHEET C2.13, DETAIL 4
- 9 8' TRUCK WHEEL STOP, SEE SHEET C2.13 DETAIL 5

- 10 CONTAINER STRIPING - SEE SHEET C2.14, DETAIL 1
- 11 EMERGENCY 30FT SWING GATE, SEE SHEET C2.16, DETAIL 4
- 12 40' WHEEL REEFER VALET STRIPING, SEE SHEET C2.15, DETAIL 1
- 13 CHASSIS STALL STRIPING, SEE SHEET C2.15, DETAIL 2
- 14 CHASSIS STORAGE STRIPING, SEE SHEET C2.15, DETAIL 3
- 15 SECURITY FENCING, SEE SHEET C2.16
- 16 SLIDING GATE, SEE SHEET C2.16
- 17 BMT, SEE SHEET C5 SERIES SHEETS
- 18 FIRE HYDRANT, SEE SHEET, SEE SHEET C4.05

SITE LAYOUT - AREA 2

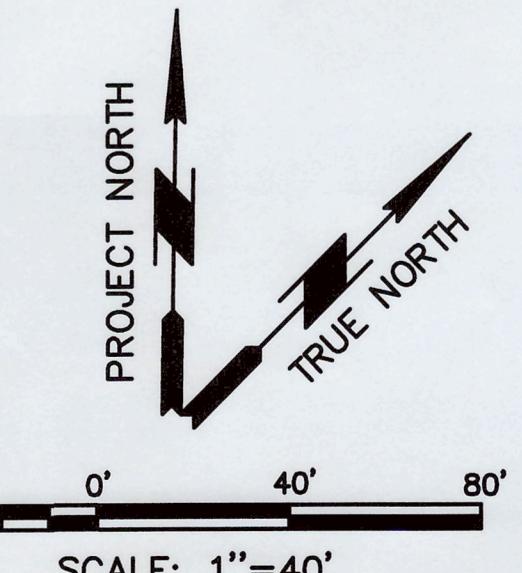
SCALE: 1" = 40'

- 19 80' LIGHT POLE, SEE SHEET S1.01, DETAIL 1
- 20 RAIL LIGHT POLE, SEE SHEET S1.01, DETAIL 2
- 21 8x20' GUARD SHELTER
- 22 12'x40' MOBILE OFFICE TRAILER (NIC)
- 23 48'x40' QUONSET HUT
- 24 POV PARKING STALL
- 25 45 DEGREE STRIPING

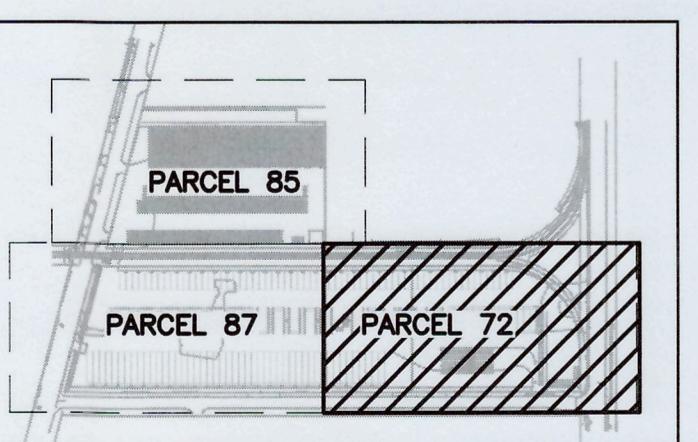
- 25 ACCESSIBLE VAN PARKING STALL. PAVEMENT SLOPE < 1.5% FUTURE ACCESSIBLE ROUTE WHEN BUILDING PROCURED
- 27 ASPHALT CONTAINMENT BERM, SEE SHEET C2.09, DETAIL 2

LEGEND:

----- PROPERTY LINE



SCALE: 1"=40'



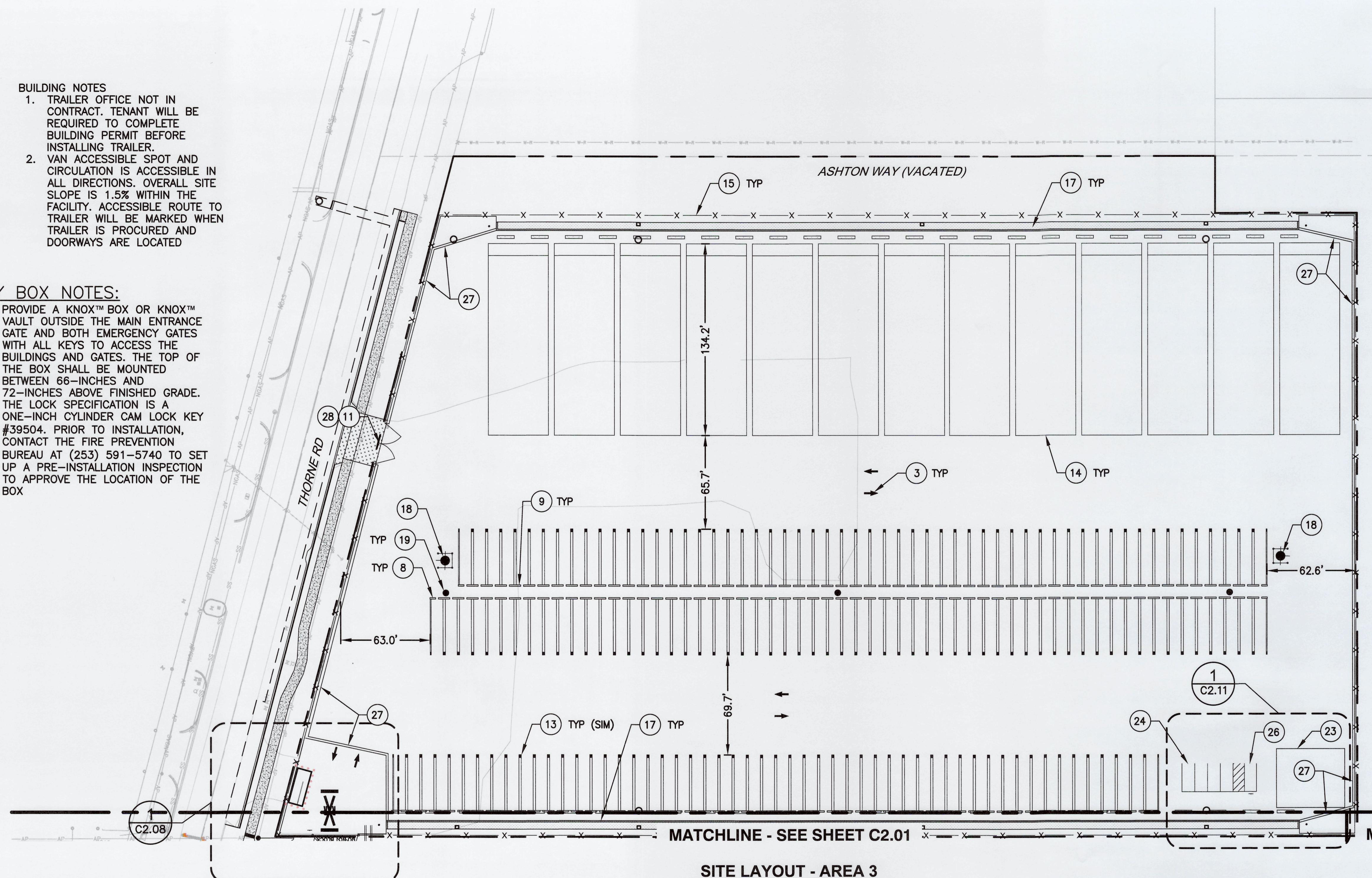
KEY PLAN

66688
C2.02
25 OF 105
ISSUED FOR CONSTRUCTION
DATE: 2025-08-25

SITE DEVELOPMENT
THE LIMITS OF PROPOSED
IMPROVEMENT APPROVED UNDER
SDEV23-0193 SHALL BE
RESTRICTED TO THE SITE. REFER
TO ASSOCIATED WORK ORDER
PERMIT (W023-0096) FOR
APPROVED RIGHT-OF-WAY
IMPROVEMENTS.

Port of
Tacoma
600 UNIVERSITY STREET
SUITE 610
SEATTLE, WA 98101
(206) 622-0222
P.O. BOX 3937 TACOMA, WA 98401-3937 888-1
mofratt & nichol
MARK: 1 BOLLARD REFERENCE
REV: JAT
APPR: JAT
DATE: 9/29/2025



KEY NOTES:

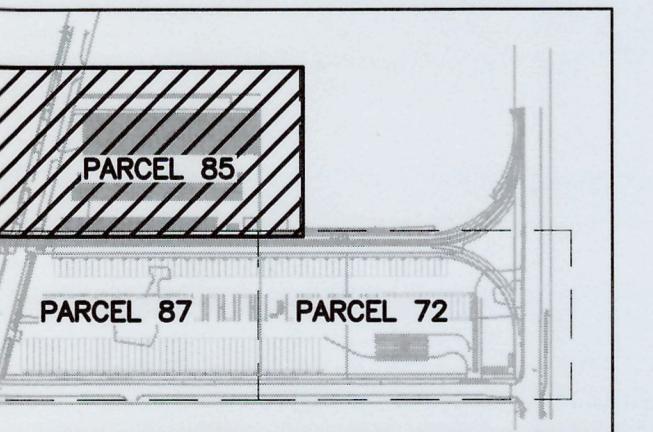
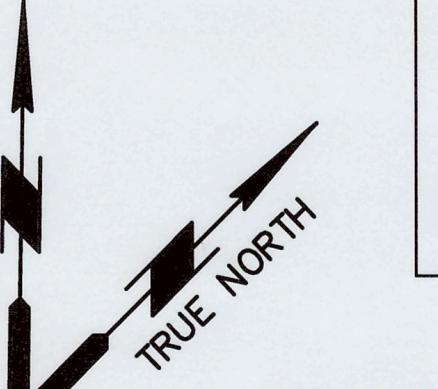
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- 23 48'x40' QUONSET HUT. CONTRACTOR TO COMPLETE BUILDING PERMIT PRIOR TO INSTALLATION
- 24 POV PARKING STALL
- 26 ACCESSIBLE VAN PARKING STALL. SEE DETAIL 2 SHEET C2.09
- 27 ASPHALT CONTAINMENT BERM, SEE SHEET C2.09, DETAIL 2
- 28 "EMERGENCY ACCESS ONLY" SIGN, 2'x4' WITH 8" LETTERING

LEGEND:

----- PROPERTY LINE



KEY PLAN

6688
C2.03
 ISSUED FOR CONSTRUCTION
 DATE: 2025-08-25

26 OF 105		THORNE ROAD		OFF DOCK CONTAINER YARD							
CONT/CONS: 071908		TOWNSHIP: 21N		RANGE: 3E SECTION: 34							
M. ID: 10124101		DAT-HRZ: 72, 85, & 87		VERT: DRAWING SCALE: AS NOTED							
PHASE: 100% DESIGN											
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<table border="1"> <tr> <td>600 UNIVERSITY STREET SUITE#10 SEATTLE, WA 98101 (206) 622-0222</td> <td>Port of Tacoma P.O. BOX 18877/TACOMA, WA 98441-0887</td> </tr> <tr> <td>BY: moffatt & nichol</td> <td>APPR: JAT</td> </tr> <tr> <td>MARK: 1 BOLLARD REFERENCE</td> <td>DATE: 9/29/2025</td> </tr> </table>						600 UNIVERSITY STREET SUITE#10 SEATTLE, WA 98101 (206) 622-0222	Port of Tacoma P.O. BOX 18877/TACOMA, WA 98441-0887	BY: moffatt & nichol	APPR: JAT	MARK: 1 BOLLARD REFERENCE	DATE: 9/29/2025
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BY: moffatt & nichol	APPR: JAT										
MARK: 1 BOLLARD REFERENCE	DATE: 9/29/2025										

BUILDING NOTES

1. TRAILER OFFICE NOT IN CONTRACT. TENANT WILL BE REQUIRED TO COMPLETE BUILDING PERMIT BEFORE INSTALLING TRAILER.

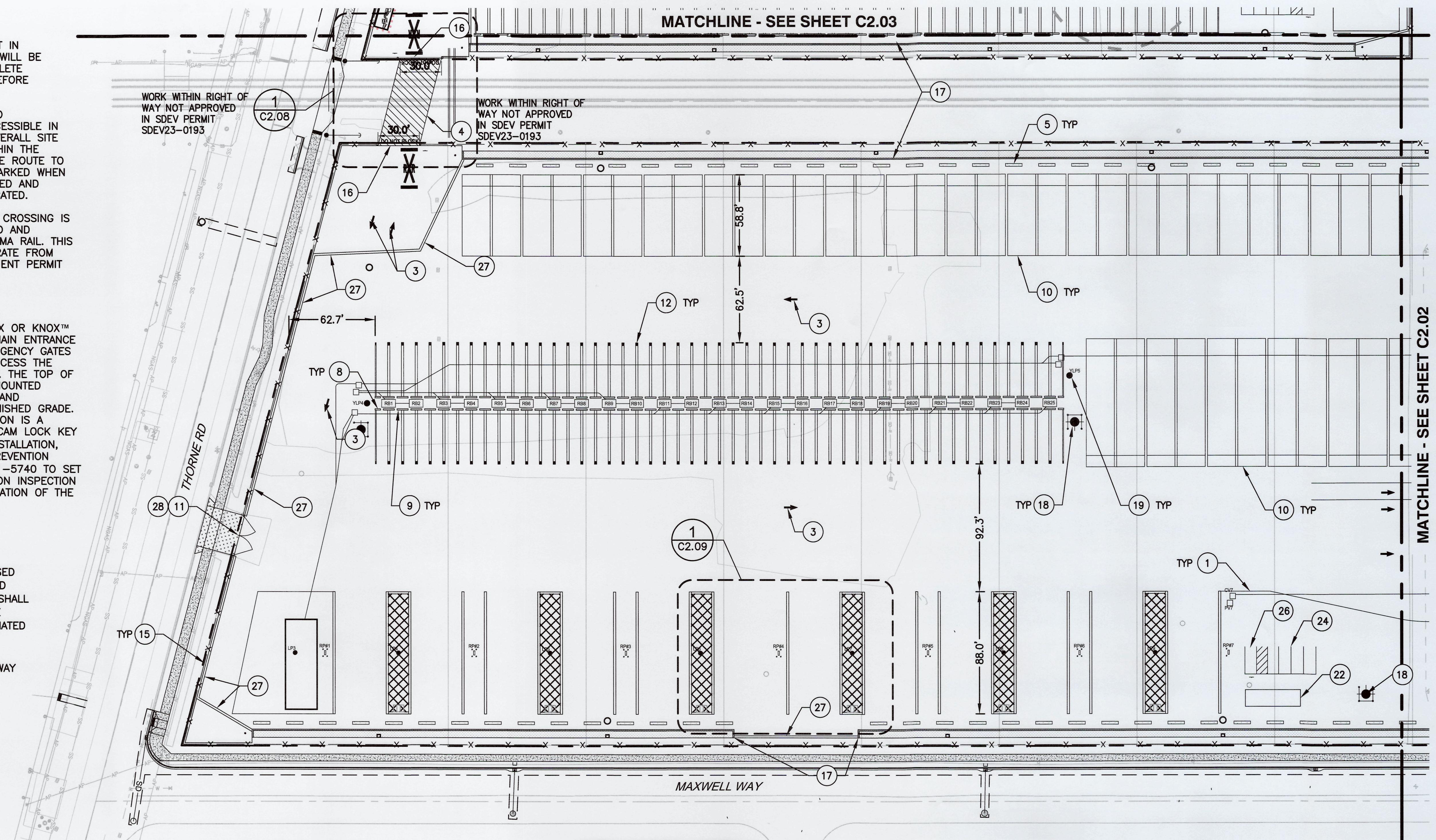
2. HANDICAP SPOT AND CIRCULATION IS ACCESSIBLE IN ALL DIRECTIONS. OVERALL SITE SLOPE IS 1.5% WITHIN THE FACILITY. ACCESSIBLE ROUTE TO TRAILER WILL BE MARKED WHEN TRAILER IS PROCURED AND DOORWAYS ARE LOCATED.
3. PROPOSED RAILWAY CROSSING IS TO BE COORDINATED AND APPROVED BY TACOMA RAIL. THIS APPROVAL IS SEPARATE FROM THE SITE DEVELOPMENT PERMIT REVIEW

KEY BOX NOTES:

PROVIDE A KNOX™ BOX OR KNOX™ VAULT OUTSIDE THE MAIN ENTRANCE GATE AND BOTH EMERGENCY GATES WITH ALL KEYS TO ACCESS THE BUILDINGS AND GATES. THE TOP OF THE BOX SHALL BE MOUNTED BETWEEN 66-INCHES AND 72-INCHES ABOVE FINISHED GRADE. THE LOCK SPECIFICATION IS A ONE-INCH CYLINDER CAM LOCK KEY #39504. PRIOR TO INSTALLATION, CONTACT THE FIRE PREVENTION BUREAU AT (253) 591-5740 TO SET UP A PRE-INSTALLATION INSPECTION TO APPROVE THE LOCATION OF THE BOX

SITE DEVELOPMENT

THE LIMITS OF PROPOSED IMPROVEMENT APPROVED UNDER SDEV23-0193 SHALL BE RESTRICTED TO THE SITE. REFER TO ASSOCIATED WORK ORDER PERMIT (WO23-0096) FOR APPROVED RIGHT-OF-WAY IMPROVEMENTS.



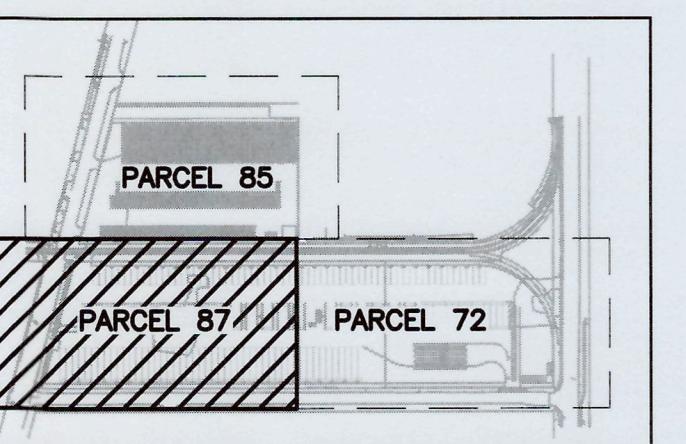
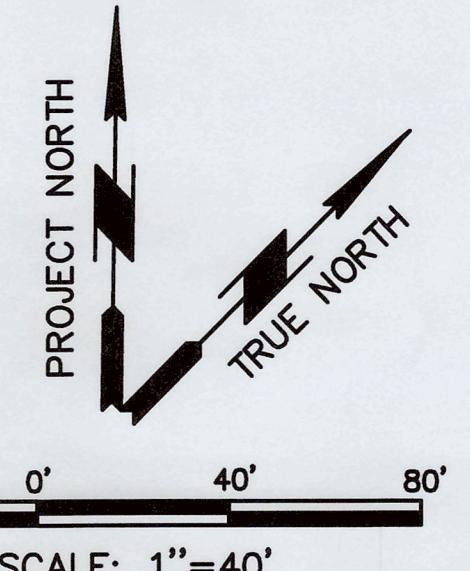
SITE LAYOUT - AREA 1

SCALE: 1" = 40'

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- 27 "EMERGENCY ACCESS ONLY" SIGN, 2'x4' WITH 8" LETTERING

LEGEND:

— PROPERTY LINE



KEY PLAN

ISSUED FOR CONSTRUCTION
DATE: 2025-08-25

C2.01

THORNE ROAD
OFF DOCK CONTAINER YARD
SITE LAYOUT - AREA 1



600 UNIVERSITY STREET
SUITE# 610
SEATTLE, WA 98101
(206) 622-0222
P.O. BOX 1837 ALCOMA, WA 98023-0841
moffatt & nichol

MARK: 1
REVISION: 1
BOLLARD REFERENCE: JAT

APPR: JAT

DATE: 9/29/2025



2025-08-25

JT 4/2/2025

DIRECTOR ENGR. DATE

PRINTED BY: j todd Sep 30, 2025

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