



**Washington State
Department of Transportation**

JUL 01 2016

Memorandum

DATE: June 9, 2016 *[Signature]*

TO: Derek Case
Assistant Construction Engineer
Headquarters, Mail Stop 47354

THRU: *DB*
Dave Becher
Program Director, SR 520 Program, Mail Stop NB82-99

FROM: Brian Dobbins, *BWD*
Construction Manager, West Approach Bridge North Project,
Mail Stop TB-93, (206) 770-3518

PROJECT: C-8625 SR 520 West Approach Bridge North Project

SUBJECT: CO # 81 – Delete Facility M

Requested Action:

Review Review and Region Execution Review and HQ Execution

Change Approval

Project Engineer Change Approval: Brian Dobbins 2/25/2016

Region Change Approval: Dave Becher 2/25/2016

HQ Construction Change Approval: Derek Case 2/25/2016

FHWA Change Approval: Anthony Sarhan 2/29/2016

Description of the Change

This WSDOT initiated change order deletes a portion of the West Approach Bridge North (WABN) stormwater system to improve coordination of this Contract with future stages of the SR 520 Corridor construction. The full build out of the ultimate design stormwater system will be constructed in those future projects. This change addresses the following issues:

1. This Contract includes Constructed Stormwater Treatment Wetland (CSTW) Facility M located southeast of East Park Drive E and north of SR520 mainline. This change order deletes this facility and allows continued use of that location for construction staging by two additional SR 520 Program corridor projects, West Approach Bridge South (WABS) and Montlake Lid. These projects will begin immediately after the completion of the West Approach Bridge North (WABN) Project. Stormwater will continue to be treated temporarily by other means until the permanent facility is constructed.
2. This change eliminates the blocks placed in the drainage scuppers in the concrete bridge barrier. As originally designed, the concrete barriers running along the WABN structure would have scupper blocks in place, as

drainage scuppers are not needed for the three-lane, one direction configuration. In the four lane (two-lane, two way operation) configuration needed during construction of the WABS structure, the scuppers need to be open to allow a portion of this runoff to spill out and reduce the amount of water “ponding” on the roadway surface.

3. As a result of the deletion of the CSTW, other modifications being made to Pier 1 in Change Order 103, and construction staging for future projects, Retaining Wall 9 no longer needs to be constructed. That wall is deleted from the Contract in this change order.

Current Contract landscaping, soil preparation and irrigation work are also impacted as a result of these follow-on projects but have been addressed through a separate change order.

Evolution of the Change

During the design phase of the WABN Project, funding for the remainder of the SR 520 corridor projects had not yet been obtained. The landscaping, irrigation, soil preparation and CSTW plans were prepared under the assumption that they would need to remain in place for an unknown period of time. Structural plans focused on opening of the WABN to traffic in the final configuration with three lanes, going in one direction.

After the WABN Project was awarded, funding was obtained for the other two projects. Evaluations then began to determine areas of overlap between WABN, WABS and the Montlake Lid in order to realize efficiencies in design and construction of these three projects, reducing costs and avoiding re-work. As a result, SR 520 Program directed the Project Engineer's Office (PEO) to proceed with a change order to delete the CSTW Facility M and modify other work as detailed above. Plan sheets were revised, deleted and added as needed to modify the work along with revisions to the Special Provisions. This change order incorporates these modifications.

Change Approvals were obtained as noted above.

Payment

In accordance with Standard Specifications 1-04.4, the Contractor is entitled to compensation for the additional cost of the labor, material and equipment as a result of this change through the creation of two new lump sum pay items:

1. Catch Basin Type 2 72 In. Diam. (\$10,605)
2. CO# 81 Other Costs (\$143,113).

Pay item CO# 81 Other Costs compensates the Contractor for costs realized as a result of this WSDOT directed change which modifies the the nature of the Work performed from that of the Work included in the original Plans as follows:

- Decrease in quantity of 21 bid items, with over 40% of the bid items being reduced by greater than 50%, and delete in their entirety 10 others.

- Deletion of some bid items and significant reduction in others required resequencing of work, modifications to construction access(es) and reduced productivity of remaining items.
- Increased complexity of remaining work due to deletion or reduction of simpler, easier to perform work.
- Reallocation of project fixed costs for supervision, safety, environmental, tools, and other items due to quantity deletions.

Renegotiating new unit prices on the remaining work for a significant number of items causes unnecessary and unfair risk to the State and the Contractor when most of the quantities for those items remain estimated and could vary greatly from that which the new prices would be based. Rather than renegotiating unit prices for 21 bid items that had been decreased in quantity (9 of which had been decreased greater than 50%) an agreement was reached on a lump sum amount to compensate the Contractor for costs realized due to the factors noted above.

In addition, this change order increases and decreases existing bid item quantities. With the new pay item and these price adjustments, this change order results in a net decrease in estimated Contract total in the amount of \$603,000. The Engineer's Independent Estimate was based on cost information provided by unit bid prices, industry sources and historical cost data. See Attachment B.

Time

Contract time is not affected by this change order.

DBE Statement

DBE participation is not impacted by this change order.

Attachments

CCIS Change Order Document (72 pages)

Change Order Checklist (2 pages)

Change Approval Emails (Attachment A)

Engineer's Estimate (Attachment B)

File: CO Files: CO 081; ProjectWise: 16.05.81

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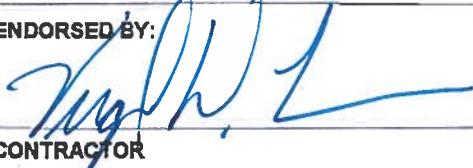
CONTRACT NO: 008625 FEDERAL AID NO: BR-NHPP-0520 (053)
CONTRACT TITLE: SR 520, MONTLAKE TO EVERGREEN PT. BRIDGE WEST APPR
CHANGE ORDER NO: 81 DELETE FACILITY M

PRIME CONTRACTOR: SW0178155 FLATIRON WEST, INC
18702 NORTH CREEK PARKWAY #202

BOTHELL WA 98011-8019

Ordered by Engineer under the terms of Section 1-04.4 of the Standard Specifications

Change proposed by Contractor

ENDORSED BY:  CONTRACTOR 5/26/2016 DATE	SURETY CONSENT: ATTORNEY IN FACT DATE
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ORIGINAL CONTRACT AMOUNT: 199,537,370.50

CURRENT CONTRACT AMOUNT: 202,365,839.00

ESTIMATED NET CHANGE THIS ORDER: -603,000.00

ESTIMATED CONTRACT TOTAL AFTER CHANGE: 201,762,839.00

Approval Required: Region Olympia Service Center Local Agency

<input checked="" type="checkbox"/> APPROVAL RECOMMENDED PROJECT ENGINEER 6.9.16 DATE	<input type="checkbox"/> EXECUTED STATE CONSTRUCTION ENGINEER 7/6/16 DATE
<input type="checkbox"/> APPROVAL RECOMMENDED REGIONAL ADMIN: S. J. P. Parker BY: SR 520 Director of Construction June 22, 2016 DATE	OTHER APPROVAL WHEN REQUIRED SIGNATURE Anthony Jackson 6/28/16 FHWA REPRESENTING

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All work, materials, and measurements to be in accordance with the provisions of the Standard Specifications and Special Provisions for the type of construction involved.

This contract is revised as follows:

Description:

This change order deletes the Constructed Stormwater Treatment Wetland (CSTW) Facility M located southeast of East Park Drive E and north of SR 520 mainline and provides modified details for this area.

This change order also eliminates Wall 9 and the scupper blocks for concrete barriers on WABN.

Total COA DBE Subcontracting Goal for the Project is not changed or affected by this change order.

Construction Criteria:

Contract Provisions Volume 1 of 2, Special Provisions is modified as follows:

Division 2 Earthwork, ROADWAY EXCAVATION AND EMANKMENT, Section 2-03.3 Construction Requirements, Subsection Common Borrow Including Haul for Stormwater Facilities is deleted in its entirety.

Division 6 Structures, CONCRETE BARRIER is modified as follows:

- Section 6-10.2 Materials, Subsection Scupper Blocks for Barriers is deleted in its entirety.
- The following is deleted from Section 6-10.3 (2) Construction Requirements, Subsection Cast-In-Place Concrete Barrier:

"Scupper blocks for barriers shall be placed and spaced as shown in the Plans. The concrete surfaces of the scupper blocks shall be coated with a bond breaker as approved by the Project Engineer just prior to casting the traffic barrier and traffic pedestrian barrier encapsulating the blocks."

Division 7 Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits, MANHOLES, INLETS, CATCH BASINS, AND DRYWELLS is modified as follows:

- Section 7-05.2 Materials, Subsection Debris Cages is deleted in its entirety.
- The following line of Section 7-05.4 Measurement is deleted:

"Measurement for debris cage will be per each."

- The following lines of Section 7-05.5 Payment are deleted:

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"Debris Cage", per each.

The unit Contract price per each for "Debris Cage" shall be full pay for furnishing and installing the debris cage. All costs associated with furnishing and installing the mounting hardware shall be included in the unit Contract price for the item installed."

Contract Provisions Volume 2 of 2, Special Provisions is modified as follows:

Division 7 Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits, VALVES FOR WATER MAINS is modified as follows:

- The following line of Section 7-12.1 Description is deleted:

"This Work also includes furnishing and installing gate valves on drain pipes and storm sewers where indicated in the Plans."

- The following items of Section 7-12.2 Materials are deleted:

"Gate valves for drain pipes and storm sewers shall have a minimum pressure rating of 10 psi at 70 degrees Fahrenheit. Gate valves shall have a minimum vacuum service rating of 12 psi. Gate valves shall be gate, paddle or plug type.

Hubs, bodies, and bonnets for gate valves for drain pipes and storm sewers shall be manufactured of PVC conforming to ASTM D1784 with a cell classification of 12454 or 12454A.

Gates, paddles or plugs shall be Type 304 Stainless Steel conforming to ASTM A240 and A666 or polypropylene conforming to ASTM D4101 with a cell classification of PP0210B67272.

Shafts, handles, air cylinder bolts, nuts, and washers, shall be manufactured from Type 304 Stainless Steel conforming to ASTM A240 and A666. Stems shall be PVC or stainless steel meeting the material requirements for other PVC or stainless steel components.

Operators shall be a pull-up handle, a handle with a non-rising stem, or a 2-inch square operating nut with a non-rising stem. Handles shall be stainless steel or polypropylene meeting the material requirements for other stainless steel or polypropylene components.

Seals, gaskets, and O-rings shall be ethylene propylene diene monomer (EPDM) rubber or a thermoplastic vulcanizate (TPV) thermoplastic elastomer (TPE) conforming to the following:

ASTM D412: Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers Tension

Tensile Strength: 375 - 1,500 psi

Ultimate (breaking) Elongation: 200 percent, minimum

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ASTM D2240: Standard Test Method for Rubber Property/Durrometer Hardness
Hardness, Shore A, points: 40 - 75

ASTM D573: Standard Test Method for Rubber Deterioration in an Air Oven
Temperature: 302 degrees Fahrenheit

Time: 70 hours, minimum

Change in Tensile Strength: -20 percent, maximum

% Change in Elongation: -20 percent, maximum

Change in Hardness: +10 points, maximum

ASTM D395: Standard Test Methods for Rubber Property/Compression Set

Temperature: 212° Fahrenheit, minimum

Time: 22 hours

Method B: 25 - 45 percent

The ends of the valves shall be either slip-on joints or flanged joints. Slip-on joints shall be compatible for solvent-welding to PVC schedule 40 pipe that conforms to ASTM D2665 and ASIM F1866 or flanged ends. Cement for solvent welding shall be in accordance with the manufacturer's requirements. Bolt spacing for flanges shall conform to ANSI Class 150 and ASME B16.5.

Transition pipe sections between slip-on joint gate valves and the drain pipes and storm sewers shall be PVC Schedule 40 pipe that conforms to ASTM D2665. The end that connects to the gate valve shall be a plain end for solvent welding to the gate valve slip-on joint. The end that connects to the drain pipe or storm sewer shall conform to the dimensional requirements for the coupling.

Transition pipe sections between flanged joint gate valves and the drain pipes and storm sewers shall include a section of flanged pipe that extends beyond the outside face of the catch basin wall or a plain-end-to-flange adapter with the adapter located inside the catch basin. The connection to the flange pipe or the plain-end-to-flange adapter shall not be located within the catch basin wall. Flanged PVC pipe shall be PVC Schedule 40 conforming to ASTM D2665. Flanged Ductile Iron pipe shall conform to Section 9-30.1(1).

Couplings and adapters between gate valves, transition pipe sections and drain pipes and storm sewers shall provide a joint that can meet the testing requirements of the Special Provision Storm Sewers. Coupling and adapter materials shall have the minimum strength requirements of the drain pipe or storm sewer pipe material that is being joined.

Grout shall conform to Section 9-04.3.

Valve boxes and valve marker posts are not required for gate valves for drain pipes and storm sewers."

- The following items of Section 7-12.3 Construction Requirements, Subsection Adjust Valve Box are deleted:

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"The drain pipes and storm sewers on which gate valves are installed shall be tested in accordance with Section 7-04 and the Special Provision Storm Sewers. The gate valves shall be installed prior to pipe testing. Gate valves shall be temporarily supported until the pipe has been tested and test results accepted by the Engineer. After the test results have been accepted, the knockout around the pipe shall be completely filled with grout for the full catch basin wall thickness. Grout shall be flush with the catch basin wall. After the grout has cured, the temporary support shall be removed unless otherwise approved by the Engineer. The transition pipe section between the gate valve and the drain pipe or storm sewer shall not exceed 5-ft. For gate valves with solvent weld end joints, the face of the gate valve body adjacent to the wall shall not extend more than 2-inches from the interior face of the catch basin wall. For gate valves with flange end joints, the flange adjacent to the wall or the outside of the adapter shall not extend more than 4-inches from the interior face of the catch basin wall.

Disinfecting gate valves for drain pipes and storm sewers is not required."

- The following item of Section 7-12.5 Payment is deleted:

"The unit Contract price per each for "Gate Valve ____ In." for drain pipes and storm sewers shall be full pay for all Work to furnish and install the valve complete in place at the end of the storm drain pipe inside of the catch basin, including temporary supports, grout, jointing, transition pipe sections, and couplings."

Division 8 Miscellaneous Construction, EROSION CONTROL AND WATER POLLUTION CONTROL is modified as follows:

- Section 8-01.2 Materials, Subsection Geosynthetic Clay Liner (GCL) is deleted in its entirety.
- Section 8-01.3 Construction Requirements, Subsection Geosynthetic Clay Liner is deleted in its entirety.
- The following is deleted from Section 8-01.4 Measurement:

"Measurement for geosynthetic clay liner will be per square yard of completed GCL in place. Measurement on slopes will include the actual area of the slope covered. The area of GCL on slopes will be computed on the basis of measurements taken by projecting the area of the slope onto a horizontal plane. No separate measurement will be made for GCL or granular bentonite for longitudinal or end-of-roll seams, materials for patches, materials for sealing penetrations, or materials placed in the anchor trench."

- The following is deleted from Section 8-01.5 Payment:

"Geosynthetic Clay Liner," per square yard.

The unit Contract price per square yard for "Geosynthetic Clay Liner" shall be full pay for furnishing and installing the liner; preparing the subgrade;

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providing for penetrations through the liner and sealing of the penetrations; patching; constructing and sealing of longitudinal and end-of-roll seams; and providing temporary cover and BMPs for protecting the cover soil and GCL. The unit Contract price per square yard shall also be full pay for furnishing and installing all equipment, tools, labor, granular bentonite and all other materials to provide a complete installation.

The cover soil and vegetation shall be paid for under other Bid items specified for the project."

Division 8 Miscellaneous Construction, PRESETTLING CELL CONCRETE LINER is deleted in its entirety.

Contract Plans Volume 1 of 10 is modified as follows:

Add the following Plan Sheets included as pages 18 and 20 of this change order:

- SP02A titled "Site Preparation Plan".
- RP14A titled "Roadway Profile".

Delete Plan Sheet RP14 titled "Roadway Profile".

Delete the following Plan Sheets and replace with page 11 through 17 of this change order:

- RS05 and RS08 both titled "Roadway Sections"
- SU34, SU38 and SU45 all titled "Construction Staging Plan"
- SP01 and SP02 both titled "Site Preparation Plan"

Contract Plans Volume 2 of 10 is modified as follows:

Add Plan Sheet DP11 titled "Drainage Profile" included as page 21 of this change order.

Delete Plan Sheets SW01, SW02, SW05, SW06 and SW07 all titled "Stormwater Facilities".

Delete the following Plan Sheets and replace as shown on pages 22 through 49 of this change order:

- NT12, NT13, NT14, NT16, NT17, NT18, NT19, NT20, NT21, NT22, NT23, NT24, and NT25 all titled "Structure Notes Drainage"
- DR02 titled "Drainage Plan"
- DP06, DP07, and DP08 all titled "Drainage Profile"
- DD02, DD10 and DD11 all titled "Drainage Details"
- SW03 and SW04 both titled "Stormwater Facilities"
- DB108 titled "Bridge Drainage Details".

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Contract Plans Volume 3 of 10 is modified as follows:

Add the following Plan Sheets included as pages 52, 55 and 57 of this change order:

- CN02A titled "Interchange Grading Plan".
- PV02A titled "Paving Plan".
- PV14A titled "Paving Details".

Delete the following Plan Sheets:

- WR10 titled "Wall 9 Layout"
- WR23 titled "Wall 9 Section"
- WR55 titled "Presettling Cell Details 1 of 4"
- WR56 titled "Presettling Cell Details 2 of 4"
- WR57 titled "Presettling Cell Details 3 of 4"
- WR58 titled "Presettling Cell Details 4 of 4".

Delete the following Plan Sheets and replace as shown on pages 50-51, 53-54, 56 and 58-59 of this change order:

- CN01 and CN02 both titled "Interchange Grading Plan"
- PVQ15 titled "Quantity Tabulation Paving"
- PV02 titled "Paving Plan"
- PV14 and PV15 both titled "Paving Details"
- IWR01 titled "Retaining Wall Sheet Index"

Delete the following sheet from the Contract Plans Volume 6 of 10 and replace with page 66 of this change order:

- IRA05 titled "WABN Structural Sheet Index 5"

Delete the following sheets from the Contract Plans Volume 9 of 10 and replace with page 67 of 72 of this change order:

- BA543 titled "Barrier Plan"
- BA544 titled "Barrier Scupper Block"
- BA546 titled "Traffic Pedestrian Barrier Details 2 of 4"
- BA547 titled "Traffic Pedestrian Barrier Details 3 of 4"
- BA548 titled "Traffic Pedestrian Barrier Details 4 of 4"
- BA549 titled "Traffic Barrier Details 1 of 4"

Measurement and Payment:

The following existing bid items are reduced:

- Bid Item 038 Roadway Excavation Incl. Haul is reduced by 10,500 C.Y.
- Bid Item 042 Embankment Compaction is reduced by 6,140 C.Y.
- Bid Item 043 Ditch Excavation Incl. Haul is reduced by 240 C.Y.
- Bid Item 047 Streambed Cobbles is reduced by 130 Ton.

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- Bid Item 049 Quarry Spalls is reduced by 30 Tons.
- Bid Item 050 Underdrain Pipe 6 In. Diam. Is reduced 393 L.F.
- Bid Item 052 Drain Pipe 12 In. Diam. is reduced by 528 L.F.
- Bid Item 053 Schedule A Culv. Pipe 18 In. Diam. is reduced by 150 L.F.
- Bid Item 054 Debris Cage is decreased by 2 Each.
- Bid Item 062 Catch Basin Type 2 54 In. Diam. is reduced by 3 Each.
- Bid Item 063 Catch Basin Type 2 60 In. Diam. is reduced by 1 Each.
- Bid Item 069 Schedule A Storm Sewer Pipe 8 In Diam. is reduced 12 L.F.
- Bid Item 073 Schedule A Storm Sewer Pipe 24 In. Diam. is reduced by 84 L.F.
- Bid Item 078 Sewer Cleanout is reduced by 12 Each.
- Bid Item 108 Gate Valve 8 In. is decreased by 1 Each.
- Bid Item 109 Gate Valve 12 In. is decreased by 2 Each.
- Bid Item 124 Structure Excavation Class A Incl. Haul is reduced by 110 C.Y.
- Bid Item 180 Prefabricated Drainage Mat is reduced by 1,090 S.Y.
- Bid Item 184 Structural Earth Wall is reduced by 510 S.F.
- Bid Item 189 Crushed Surface Base Course is reduced by 130 Tons.
- Bid Item 196 HMA Cl. In. PG 64-22 is reduced by 178 Tons.
- Bid Item 205 Geosynthetic Clay liner is reduced by 2,170 S.Y.
- Bid Item 285 Concrete Liner is reduced by 1,280 S.Y.
- Bid Item 291 Gravel Backfill for Drain is reduced by 233 C.Y.
- Bid Item 305 Coated Chain Link Fence Type 3 is reduced by 370 L.F.
- Bid Item 306 Coated End, Gate, Corner, Pullpost for Chain Link Fence is reduced by 11 Each.
- Bid Item 307 Double 14 FT. Coated Chain Link Gate is reduced by 1 Each.
- Bid Item 327 Construction Geotextile for Underground Drain is reduced by 28 S.Y.
- Bid Item 329 Construction Geotextile for Permanent Erosion Control is reduced by 122 S.Y.
- Bid Item 331 Gravel Backfill for Structural Earth Wall is reduced by 95 C.Y.
- Bid Item 350 On-Land Contam. Soil Excavation, Handling & Disposal is reduced by 1780 Ton.

The following existing bid items are increased:

- Bid Item 048 Light Loose Riprap is increased by 50 Tons.
- Bid Item 051 Drain Pipe 6 In. Diam is increased by 11 L.F.
- Bid Item 061 Catch Basin Type 2 48" Diam. is increased by 1 Each.
- Bid Item 065 Testing Storm Sewer Pipe is increased by 148 L.F.
- Bid Item 066 Cl. III Reinf. Conc. Storm Sewer Pipe 30 In. Diam. is increased 166 L.F.
- Bid Item 070 Schedule A Storm Sewer Pipe 12 In. Diam. is increased by 78 L.F.
- Bid Item 289 Structure Excavation Class B Incl. Haul is increased by 150 C.Y.
- Bid Item 290 Shoring or Extra Excavation Class B is increased by 810 S.F.

The new item "Catch Basin Type 2 72 In. Diam.", in the amount of \$10,605 each, shall be full payment for all additional costs for equipment, labor, tools, materials, engineering, indirect, overhead, and other costs realized by Flatiron West, Inc. and its subcontractors, consultants, and suppliers to

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install the catch basin as shown in this change order.

The new item "CO# 81 Other Costs", in the amount of \$143,113, shall be full payment for all other costs realized by Flatiron West, Inc. and its subcontractors, consultants, and suppliers for the work modified by this change order.

Time:

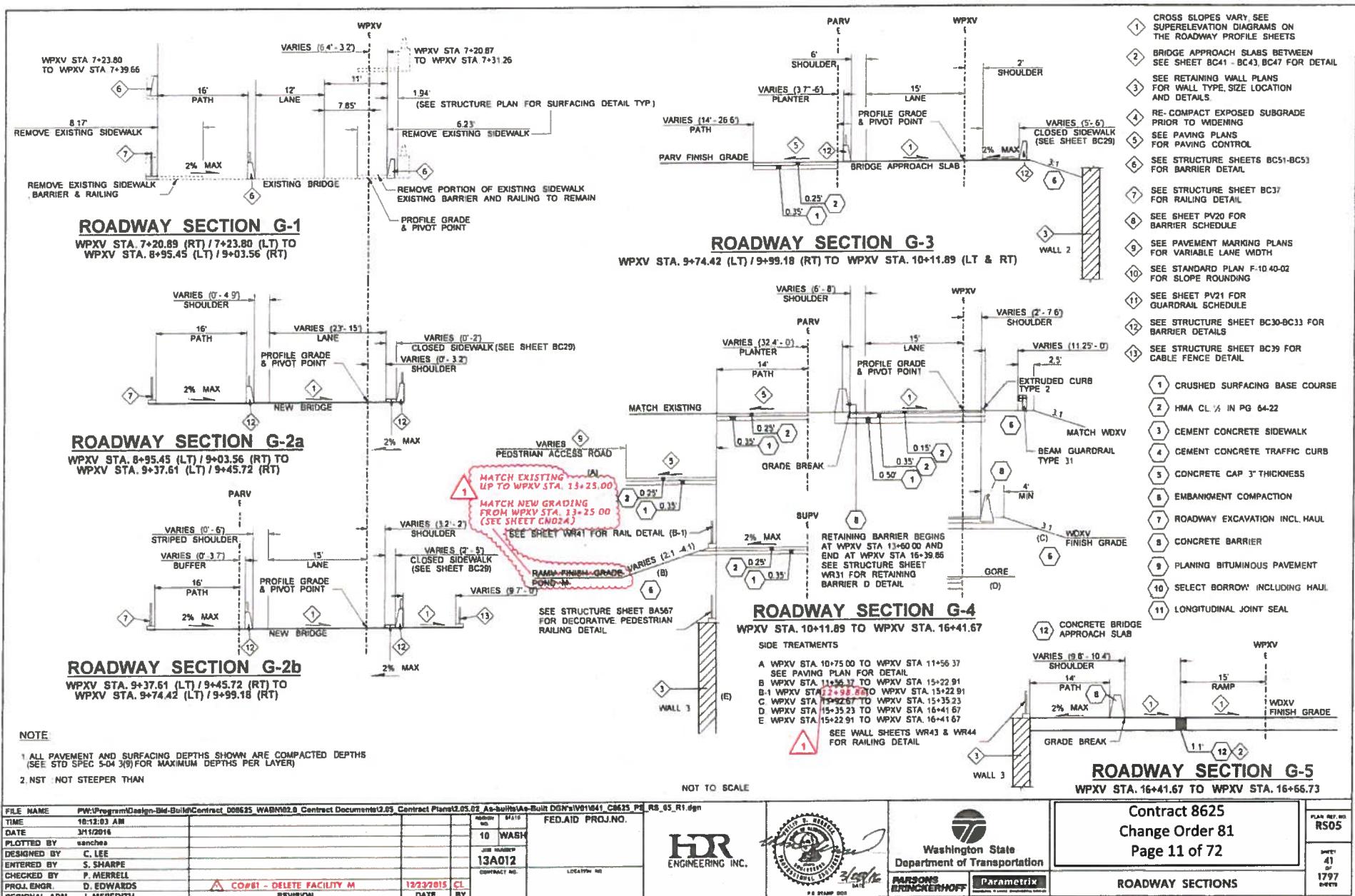
Contract time is not affected by this change order.

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ITEM NO	GROUP NO	STD ITEM	ITEM DESCRIPTION	UNIT MEASURE	UNIT PRICE	EST QTY CHANGE	EST AMT CHANGE
0038	01	0310	ROADWAY EXCAVATION INCL. HAUL	C.Y.	31.00	-10,500.00	-325,500.00
0042	01	0470	YANKENT COMPACTION	C.Y.	3.00	-6,140.00	-18,420.00
0043	01	1030	DITCH EXCAVATION INCL. HAUL	C.Y.	49.00	-240.00	-11,760.00
0047	01	1094	STREAMBED COBBLES	TON	65.00	-130.00	-8,450.00
0048	01	1073	LIGHT LOOSE RIPRAP	TON	55.00	50.00	2,750.00
0049	01	1086	QUARRY SPALLS	TON	70.00	-0.00	-2,100.00
0050	01	1160	UNDERDRAIN PIPE 6 IN. DIAM.	L.F.	19.00	-393.00	-7,467.00
0051	01	1170	DRAIN PIPE 6 IN. DIAM.	L.F.	25.00	11.00	275.00
0052	01	1173	DR-IN PIPE 12 IN. DIAM.	L.F.	40.00	-528.00	-21,120.00
0053	01	1182	SCHEDULE A CULV. PIPE 18 IN. DIAM.	L.F.	56.00	-150.00	-8,400.00
0054	01		DRERIS CAGE	EACH	810.00	-2.00	-1,620.00
0061	01	3105	CATCH BASIN TYPE 2 48 IN. DIAM.	EACH	3,300.00	1.00	3,300.00
0062	01	3106	CATCH BASIN TYPE 2 54 IN. DIAM.	EACH	3,800.00	-3.00	-11,400.00
0063	01	3109	CATCH BASIN TYPE 2 60 IN. DIAM.	EACH	5,150.00	-1.00	-5,150.00
0065	01	3151	TESTING STORM SEWER PIPE	L.F.	3.50	14d.00	518.00
0066	01	3436	CL. 111 HEINF. CONC. STORM SEWER PIPE 30	L.F.	125.00	166.00	20,750.00
0069	01		SCHEDULE A STORM SEWER PIPE 8 IN. DIAM.	L.F.	37.00	-12.00	-444.00
0070	01	3541	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.	L.F.	35.00	78.00	2,730.00
0073	01	3543	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM.	L.F.	108.00	-84.00	-9,072.00
078	01	3640	SEWER CLEAROUT	EACH	625.00	-12.00	-7,500.00
0108	01	6160	GATE VALVE 8 IN.	EACH	1,450.00	-1.00	-1,450.00
0109	01	6165	GATE VALVE 12 IN.	EACH	1,350.00	-2.00	-2,700.00
0124	01	4006	STRUCTURE EXCAVATION CLASS A INCL. HAUL	C.Y.	31.00	-110.00	-3,410.00
0180	01	4482	PREFABRICATED DRAINAGE MAT	S.Y.	11.00	-1,090.00	11,990.00
0184	01	7109	STRUCTURAL EARTH WALL	S.F.	33.00	-510.00	-16,800.00
0189	01	5100	CRUSHED SURFACING BASE COURSE	TON	30.00	-130.00	-3,900.00
0196	01	5767	HIA CL. 1 2 IN. PG 64-22	TON	68.00	-178.00	-15,664.00
0205	01		GEOSYNTHETIC CLAY LINER	S.Y.	13.50	-2,170.00	-29,295.00
0285	01		CONCRETE LINER	S.Y.	75.00	-1,280.00	-96,000.00
0289	01	7006	STRUCTURE EXCAVATION CLASS B INCL. HAUL	C.Y.	50.00	150.00	7,500.00
0290	01	7005	SHORING OR EXTRA EXCAVATION CLASS B	S.F.	1.00	810.00	810.00
0291	01	7014	GRAVEL BACKFILL FOR DRAINS	C.Y.	40.00	-233.00	-9,320.00
0305	01	7085	COATED CHAIN LINK FENCE TYPE 3	L.F.	16.00	-370.00	-5,920.00
0306	01	7098	COATED END, GATE, CORNER, PULLPOST FOR CH	EACH	255.00	-11.00	-2,805.00
0307	01	7103	DOUBLE 14 FT. COATED CHAIN LINK GATE	EACH	2,100.00	-1.00	-2,100.00
0327	01	7550	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND D	S.Y.	3.50	-28.00	-98.00
0329	01	7554	CONSTRUCTION GEOTEXTILE FOR PERMANENT ERO	S.Y.	3.00	-125.00	-366.00
0331	01	7567	GRAVEL BORROW FOR STRUCTURAL EARTH WALL 1	C.Y.	40.00	-95.00	-3,800.00
0350	01		ON-LAND CONTAM. SOIL EXCAVATION, HANDLING	TON	85.00	-1,780.00	-151,300.00
1033	01	3107	CATCH BASIN TYPE 2 72 IN. DIAM.	EACH	10,605.00	1.00	10,605.00
1034	01		CON#81 OTHER COSTS	L.S.	143,113.00	1.00	143,113.00

-603,000.00



- 1 CROSS SLOPES VARY SEE SUPERELEVATION DIAGRAMS ON THE ROADWAY PROFILE SHEETS
 2 IN THIS SHEET
 3 SEE RETAINING WALL PLANS FOR WALL TYPE, SIZE, LOCATION AND DETAILS
 4 RE-COMPACT EXPOSED SUBGRADE PRIOR TO WIDENING
 5 SEE PAVING PLANS FOR PAVING CONTROL
 6 SEE STRUCTURE SHEETS BAS43 - BAS56 FOR BARRIER DETAIL
 7 SEE STRUCTURE SHEET BC37 FOR RAILING DETAIL
 8 SEE SHEET PV20 FOR BARRIER SCHEDULE
 9 SEE PAVEMENT MARKING PLANS FOR VARIABLE LANE WIDTH
 10 SEE STANDARD PLAN F-10 40-02 FOR SLOPE ROUNDING
 11 SEE SHEET PV21 FOR GUARDRAIL SCHEDULE

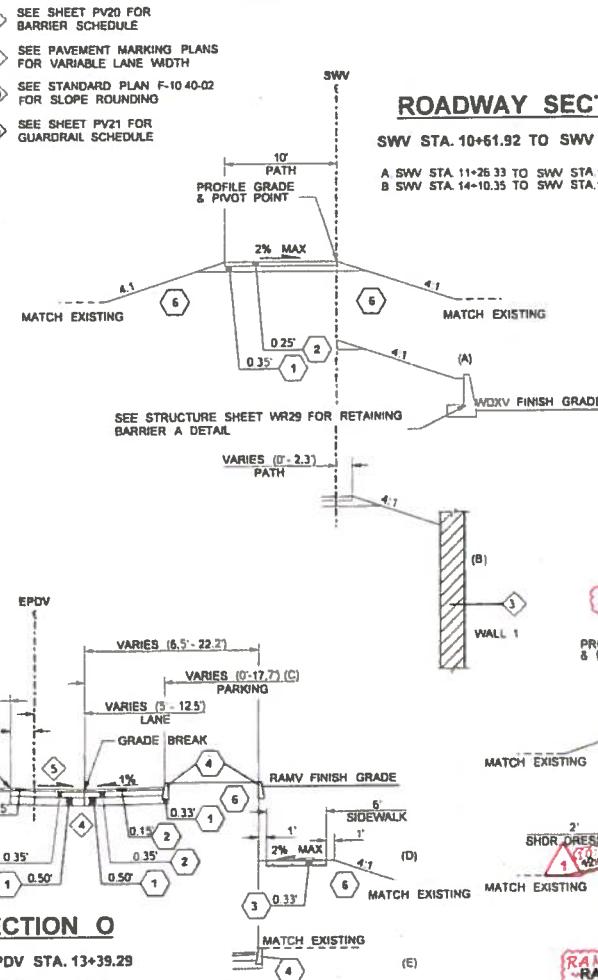
EPDV STA. 9+94.44 TO EPDV STA. 13+39.29

C SEE PAVING PLAN FOR PARKING LOT DETAIL
 D EPDV STA. 10+90.33 TO EPDV STA. 13+27.27
 E EPDV STA. 13+27.27 TO EPDV STA. 13+39.29

NOTE:

1 ALL PAVEMENT AND SURFACING DEPTHS SHOWN ARE COMPAKTED DEPTHS
 (SEE STD SPEC 5-04 309 FOR MAXIMUM DEPTHS PER LAYER)

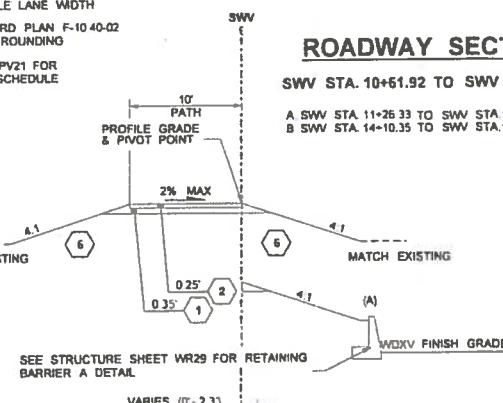
2 NST NOT STEEPER THAN



ROADWAY SECTION N

SWV STA. 10+61.92 TO SWV STA. 15+86.35

A SWV STA. 11+26.33 TO SWV STA. 14+10.35
 B SWV STA. 14+10.35 TO SWV STA. 15+86.35

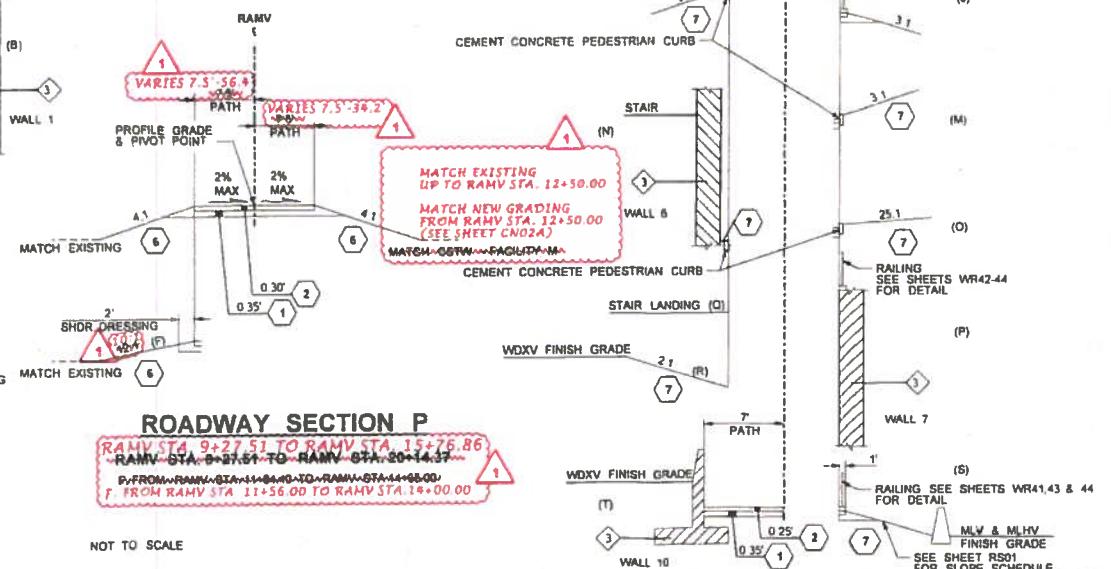


ROADWAY SECTION Q

TRV STA. 10+34.04 TO TRV STA. 17+95.94

SIDE TREATMENTS

G TRV STA. 10+34.04 TO TRV STA. 10+76.16
 H TRV STA. 10+34.04 TO TRV STA. 11+93.65
 I TRV STA. 10+34.04 TO TRV STA. 11+52.96
 J TRV STA. 11+52.96 TO TRV STA. 11+69.93
 K TRV STA. 11+69.93 TO TRV STA. 12+79.50
 L TRV STA. 12+79.50 TO TRV STA. 14+51.21
 M TRV STA. 11+69.93 TO TRV STA. 13+16.94
 N TRV STA. 14+51.21 TO TRV STA. 15+09.63
 O TRV STA. 13+16.94 TO TRV STA. 13+19.38
 P TRV STA. 13+19.38 TO TRV STA. 13+84.55
 Q TRV STA. 15+09.63 TO TRV STA. 15+29.42
 R TRV STA. 15+29.42 TO TRV STA. 17+39.69
 S TRV STA. 13+84.55 TO TRV STA. 17+95.94
 T TRV STA. 17+39.69 TO TRV STA. 17+95.94



ROADWAY SECTION P

RAMV STA. 9+27.51 TO RAMV STA. 15+76.86
 RAMV STA. 9+27.51 TO RAMV STA. 14+00.00
 FROM RAMV STA. 9+27.51 TO RAMV STA. 14+00.00
 FROM RAMV STA. 11+56.00 TO RAMV STA. 14+00.00

NOT TO SCALE

FILE NAME	PW\Program\Design-Bid-Build\Contract_008625_WABN\02_Contract Documents\12.05_Contract Plans\12.05.02_As-Built\As-Built DGN\w101844.CB625.PB	REF. NO.	STATE	FED. AID PROJ. NO.	CONTRACT NO.	LOCATION NO.
TIME	1:54:06 PM					
DATE	3/10/2016					
PLOTTED BY	SancheA					
DESIGNED BY	C. LEE					
ENTERED BY	S. SHARPE					
CHECKED BY	D. MERRILL					
PROJ. ENGR.	D. EDWARDS					
REGIONAL ADM.	J. MEREDITH					

A CO#81 - DELETE FACILITY M

REVISION

12/23/2015

CL

DATE

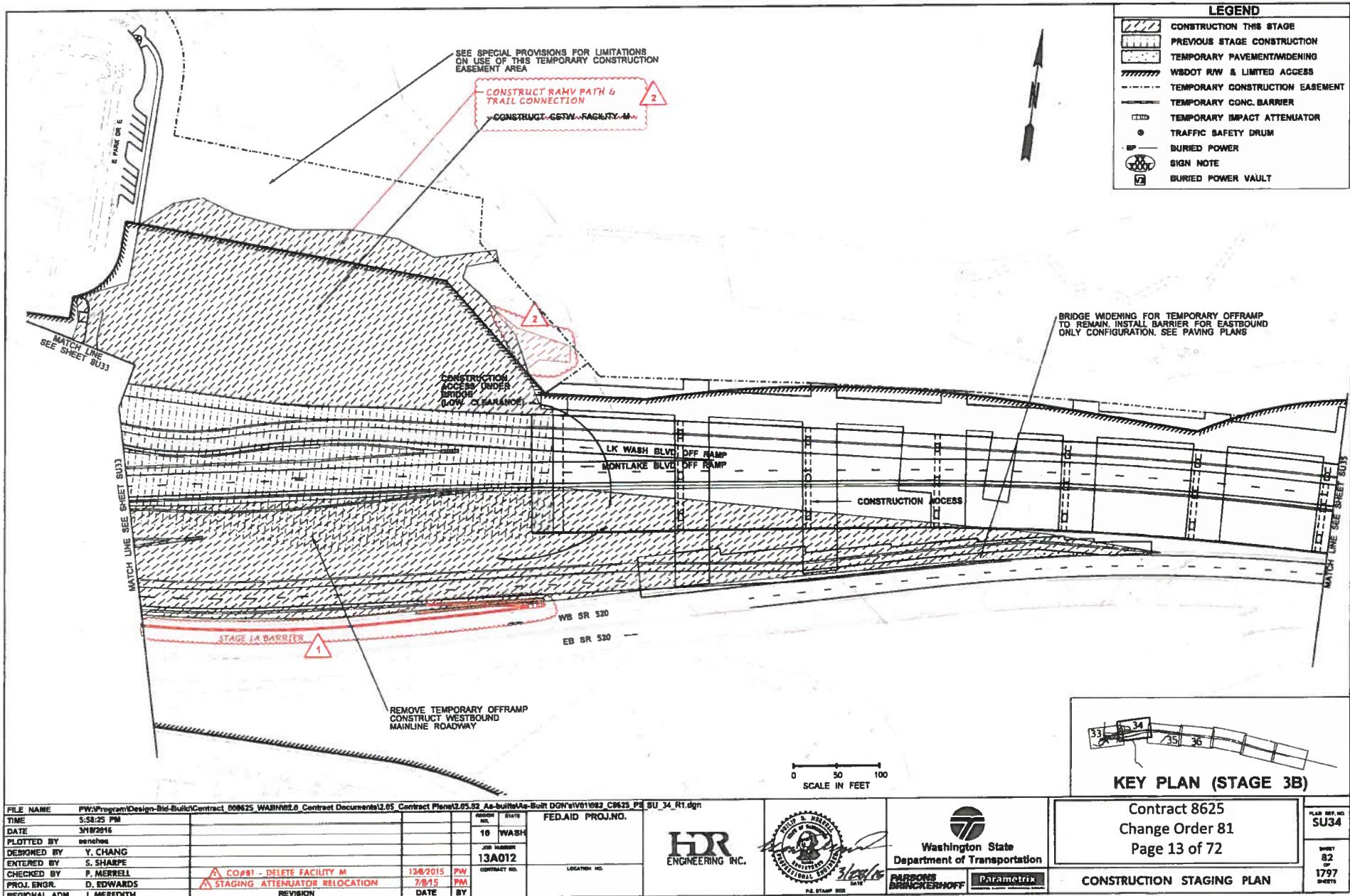
BY



Contract 8625
 Change Order 81
 Page 12 of 72

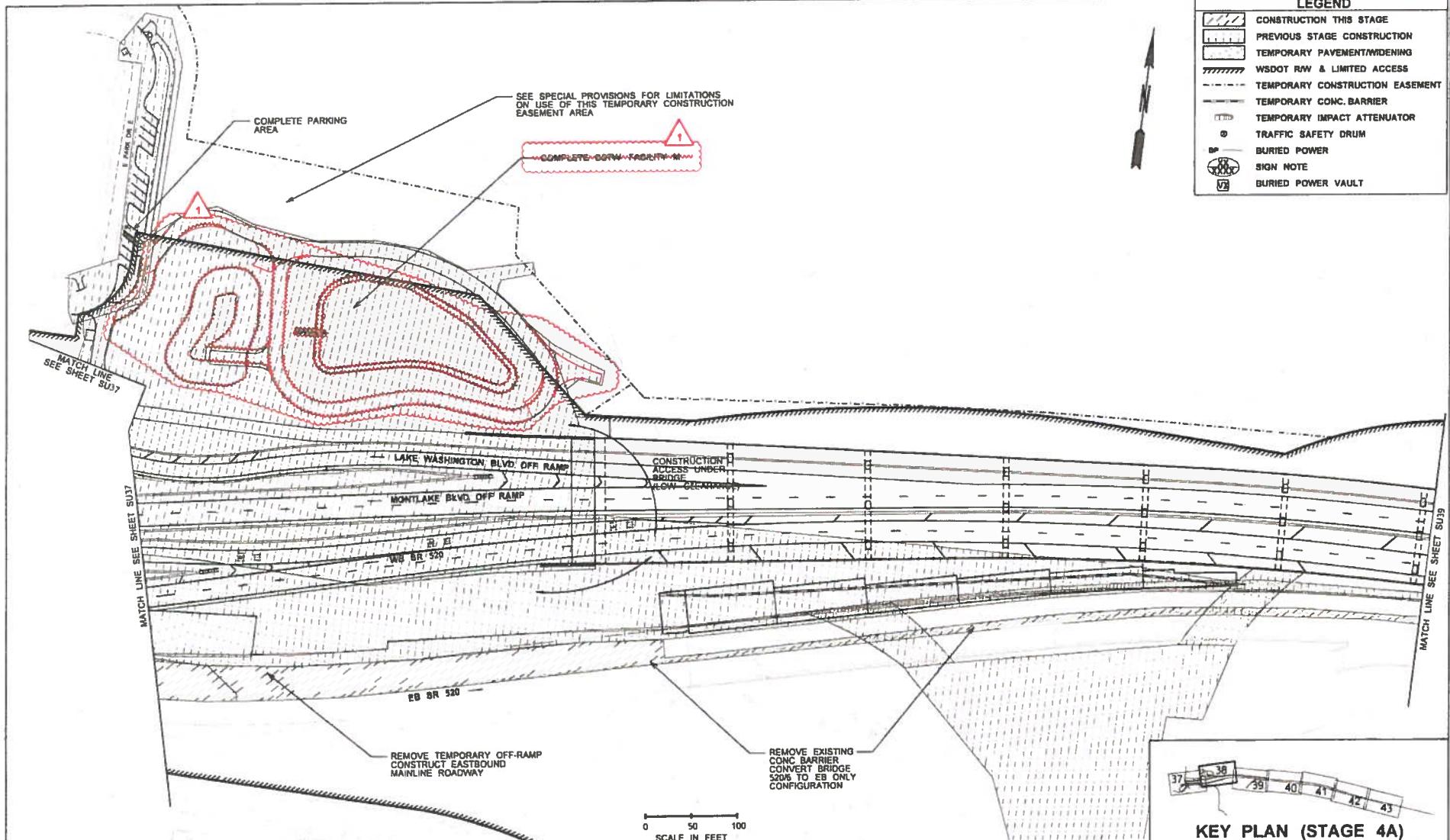
ROADWAY SECTIONS

PLAN REF. NO.
RS08
 SHEET
44
 OF
1797
 SHEETS



LEGEND

	CONSTRUCTION THIS STAGE
	PREVIOUS STAGE CONSTRUCTION
	TEMPORARY PAVEMENT/WIDENING
	WSDOT RW & LIMITED ACCESS
	TEMPORARY CONSTRUCTION EASEMENT
	TEMPORARY CONC. BARRIER
	TEMPORARY IMPACT ATTENUATOR
	TRAFFIC SAFETY DRUM
	BURIED POWER
	SIGN NOTE
	BURIED POWER VAULT



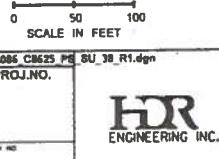
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TIME	1:54:36 PM		
DATE	3/19/2016		
PLOTTED BY	Sanchez		
DESIGNED BY	Y. CHANG		
ENTERED BY	S. SHARPE		
CHECKED BY	P. MERRELL		
PROJ. ENGR.	D. EDWARDS		
REGIONAL ADM.	J. MEREDITH		

CO#81 - DELETE FACILITY M

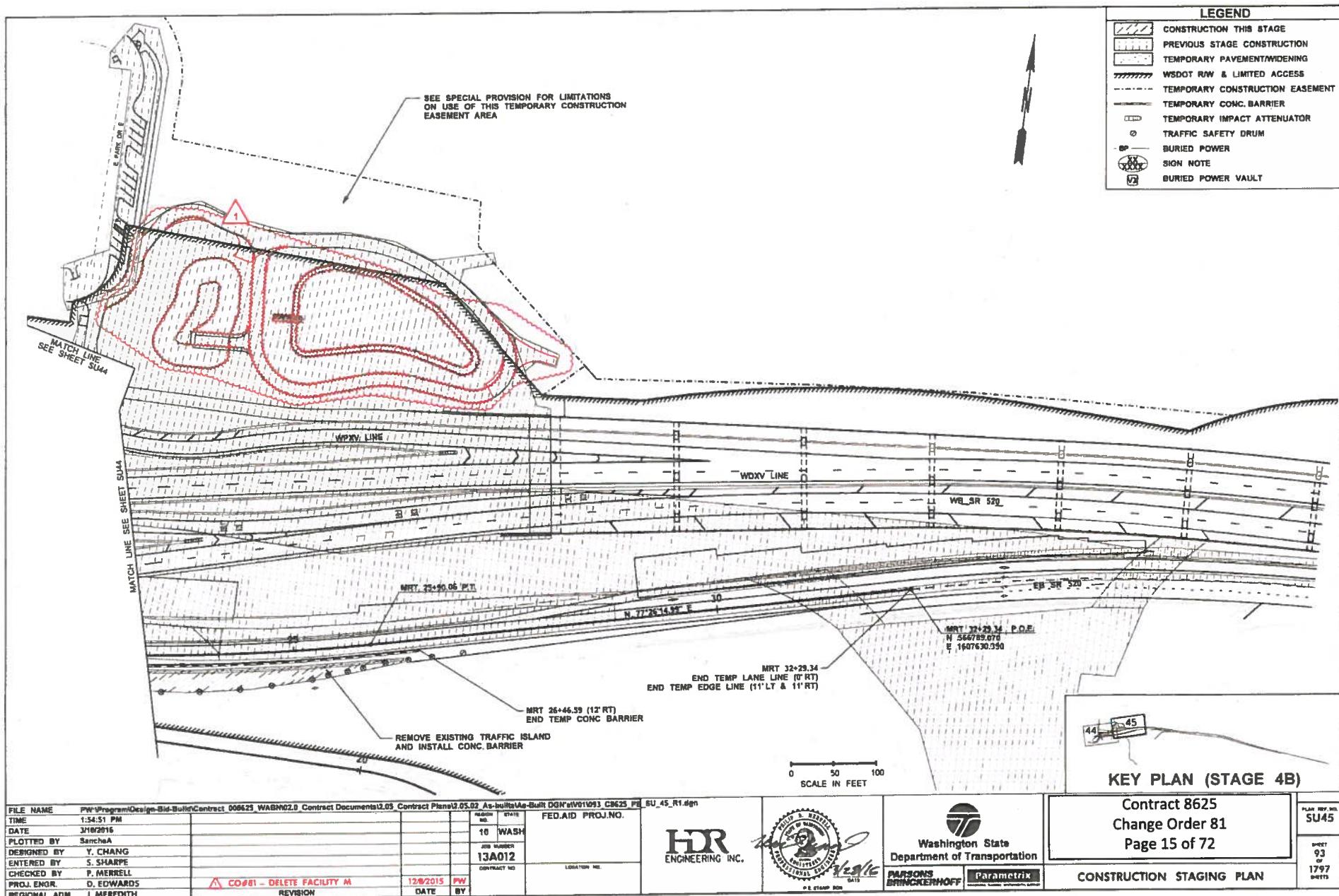
12/6/2015

PW

DATE BY



Contract 8625 Change Order 81 Page 14 of 72	PLAN REF ID: SU38
CONSTRUCTION STAGING PLAN	Sheet 86 1797 BEGITS



GENERAL NOTES:

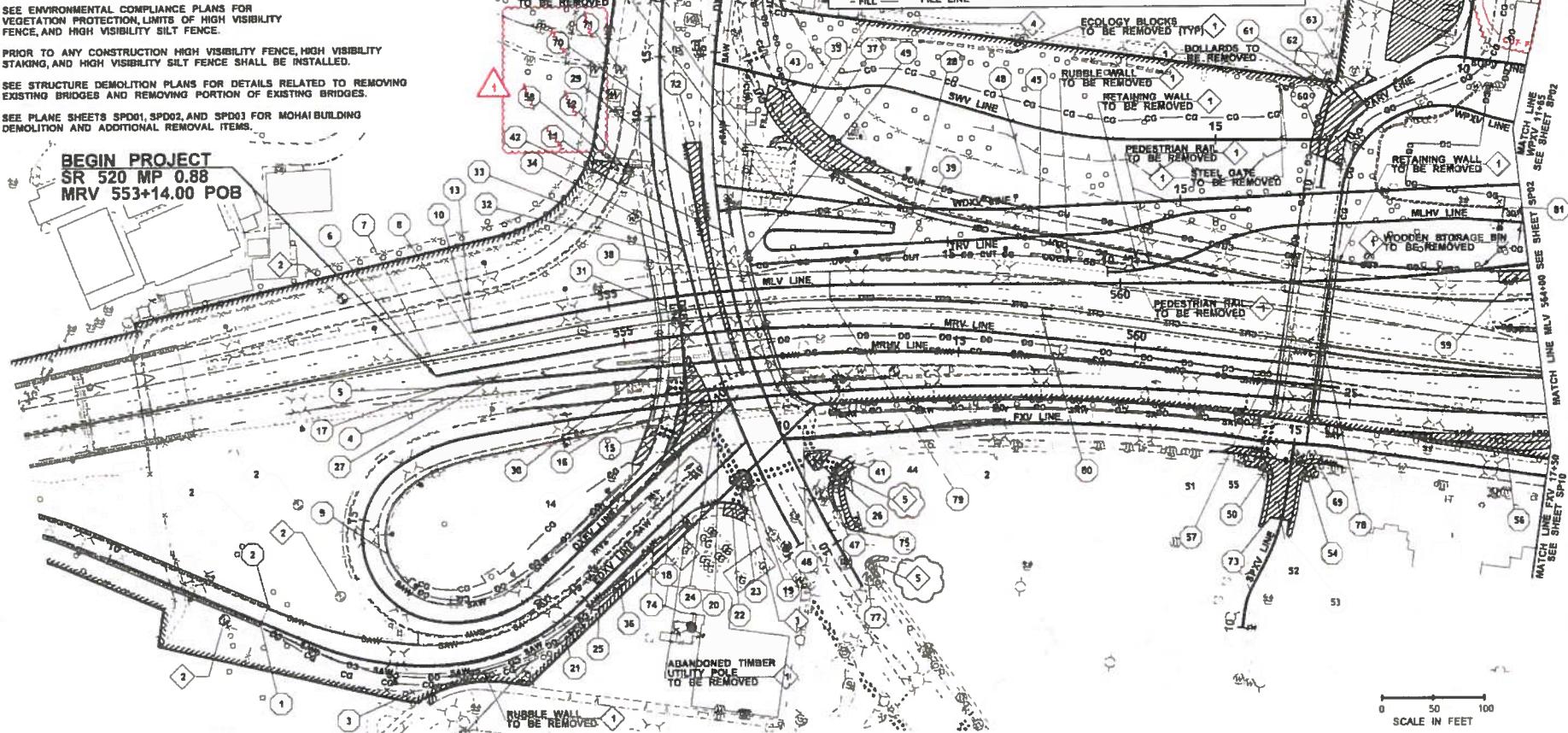
1. SEE UTILITIES PLANS FOR REMOVAL/PROTECTED UTILITIES.
2. SEE STAGING PLANS FOR TEMPORARY REMOVAL ITEMS.
3. SEE TRAFFIC PLANS FOR REMOVAL OF SIGN AND ILLUMINATION.
4. SEE DRAINAGE SITE PREPARATION SHEETS FOR REMOVAL OF DRAINAGE STRUCTURES.
5. SEE PAVING PLANS AND PAVING DETAILS FOR PLANNING BITUMINOUS PAVEMENT AND SAW CUT DETAILS.
6. SEE ENVIRONMENTAL COMPLIANCE PLANS FOR VEGETATION PROTECTION, LIMITS OF HIGH VISIBILITY FENCE, AND HIGH VISIBILITY SILT FENCE.
7. PRIOR TO ANY CONSTRUCTION HIGH VISIBILITY FENCE, HIGH VISIBILITY STAKING, AND HIGH VISIBILITY SILT FENCE SHALL BE INSTALLED.
8. SEE STRUCTURE DEMOLITION PLANS FOR DETAILS RELATED TO REMOVING EXISTING BRIDGES AND REMOVING PORTION OF EXISTING BRIDGES.
9. SEE PLANE SHEETS SPD01, SPD02, AND SPD03 FOR MOHAI BUILDING DEMOLITION AND ADDITIONAL REMOVAL ITEMS.

CONSTRUCTION NOTES:

- 1 SEE SPECIAL PROVISION REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
- 2 EXISTING PIEZOMETER TO BE PROTECTED.
- 3 EXISTING UTILITY POLE TO BE PROTECTED.
- 4 EXISTING BIKE LOCKERS AND BIKE RACKS TO BE REMOVED BY OTHERS.
- 5 SEE SPECIAL PROVISION SPECIAL SIDEWALK REMOVAL.

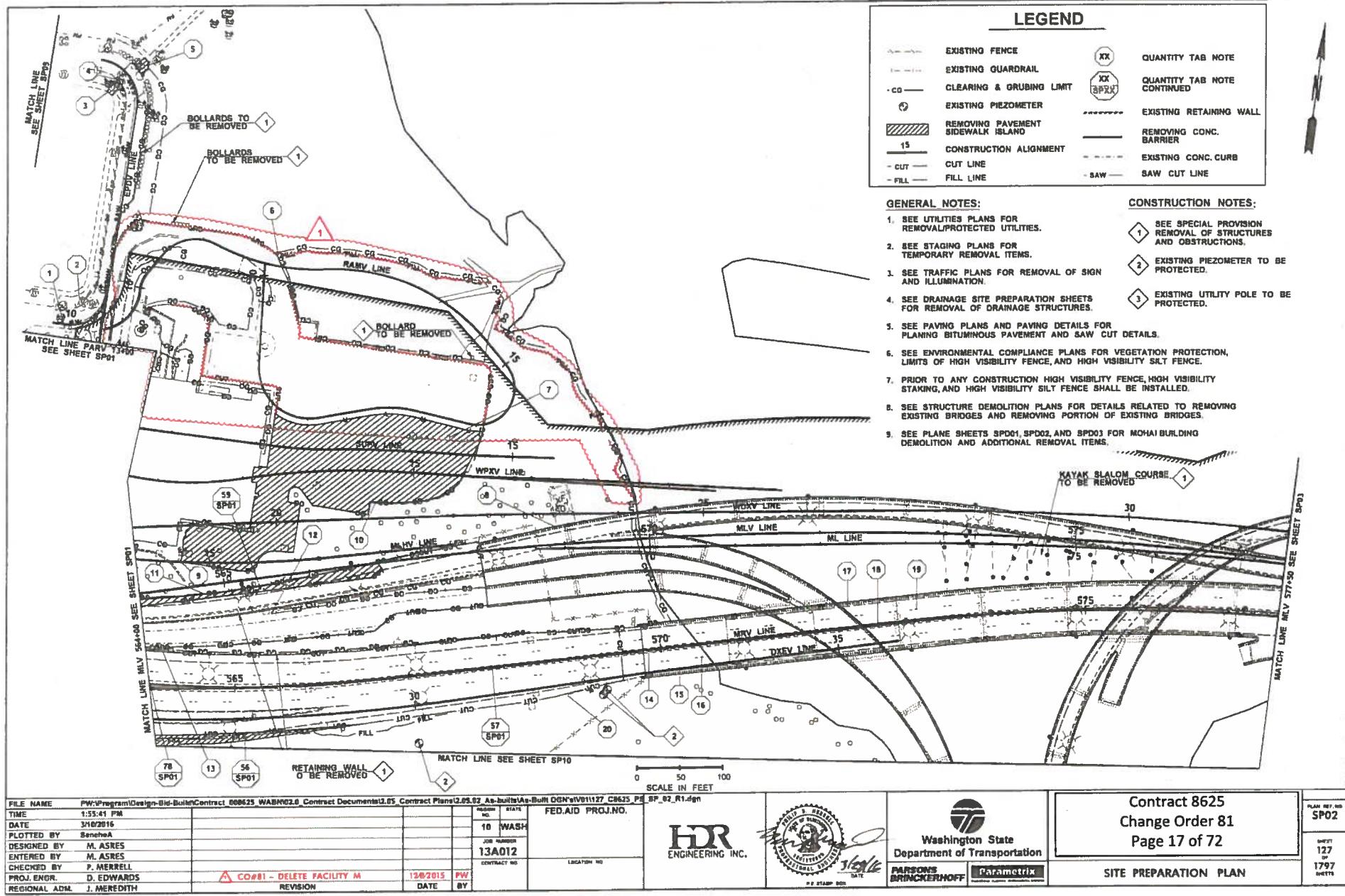
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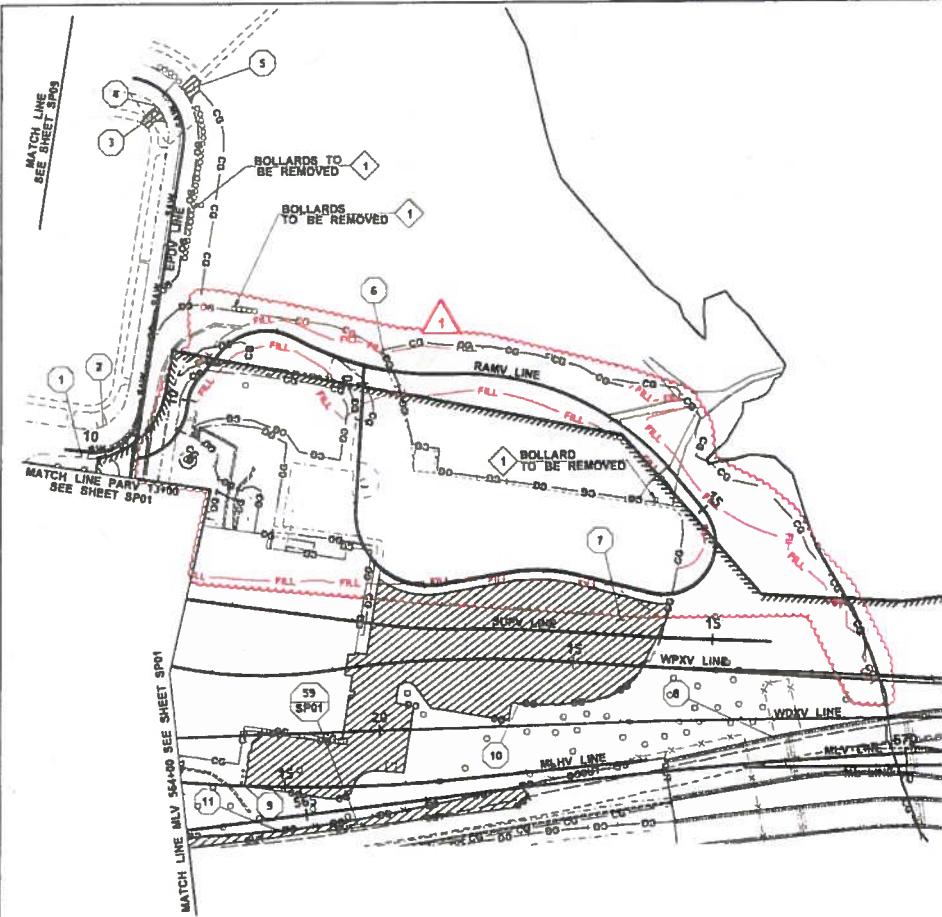
	EXISTING FENCE
	EXISTING GUARDRAIL
	CLEARING & GRADING LIMIT
	EXISTING PIEZOMETER
	REMOVING PAVEMENT SIDEWALK ISLAND
	CONSTRUCTION ALIGNMENT
	CUT LINE
	FILL LINE
	SAW
	SAW CUT LINE



FILE NAME	PW\Program\Design-Bid-Build\Contract_000625_WABN62.0 Contract Documents\2.03.02 As-Built\As-Built DGN's\11125_C8625.PS				SP_01_R1.dgn
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DATE	3/02/2016	11/2/2015	PW		
PLOTTED BY	Sancha	08/28/2015	KP		
DESIGNED BY	M. ASRES	08/24/2014	MA		
ENTERED BY	M. ASRES	13A012			
CHECKED BY	P. MERRILL				
PROJ. ENGR.	D. EDWARDS				
REGIONAL ADM.	J. MEREDITH				

AS-BUILT - DELETE FACILITY M
AS-BUILT REVISIONS
ADS - DEL CT NOTES & ADD CN NOTES
AD4 - BLOCKS & GATE TO BE REMOVED
AD3 - BLOCKS & GATE TO BE REMOVED
AD3 - ADD CN NOTE 4





0 50 100
SCALE IN FEET

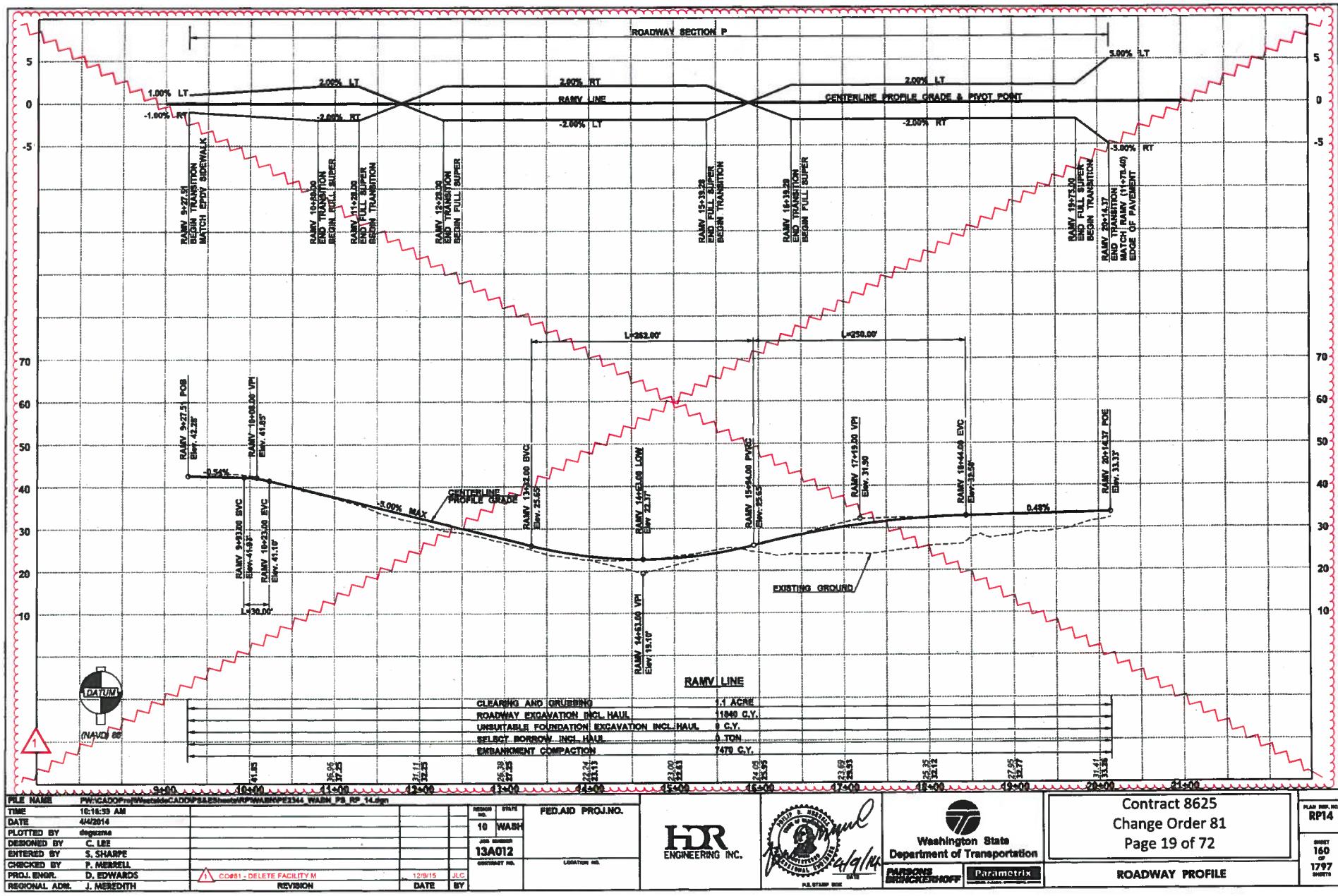
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TIME	1:35:25 PM				10 WASH	
DATE	3/18/2016				JOB NUMBER	13A012
PLOTTED BY	SancheA				CONTRACT NO.	
DESIGNED BY	M. ASRES				LOCATION NO.	
ENTERED BY	M. ASRES				DATE	
CHECKED BY	P. MERRELL				BY	
PROJ. ENGR.	D. EDWARDS	CO #81 - DELETE FACILITY M	120/2015	PW		
REGIONAL ADM.	J. MEREDITH	REVISION	DATE	BY		

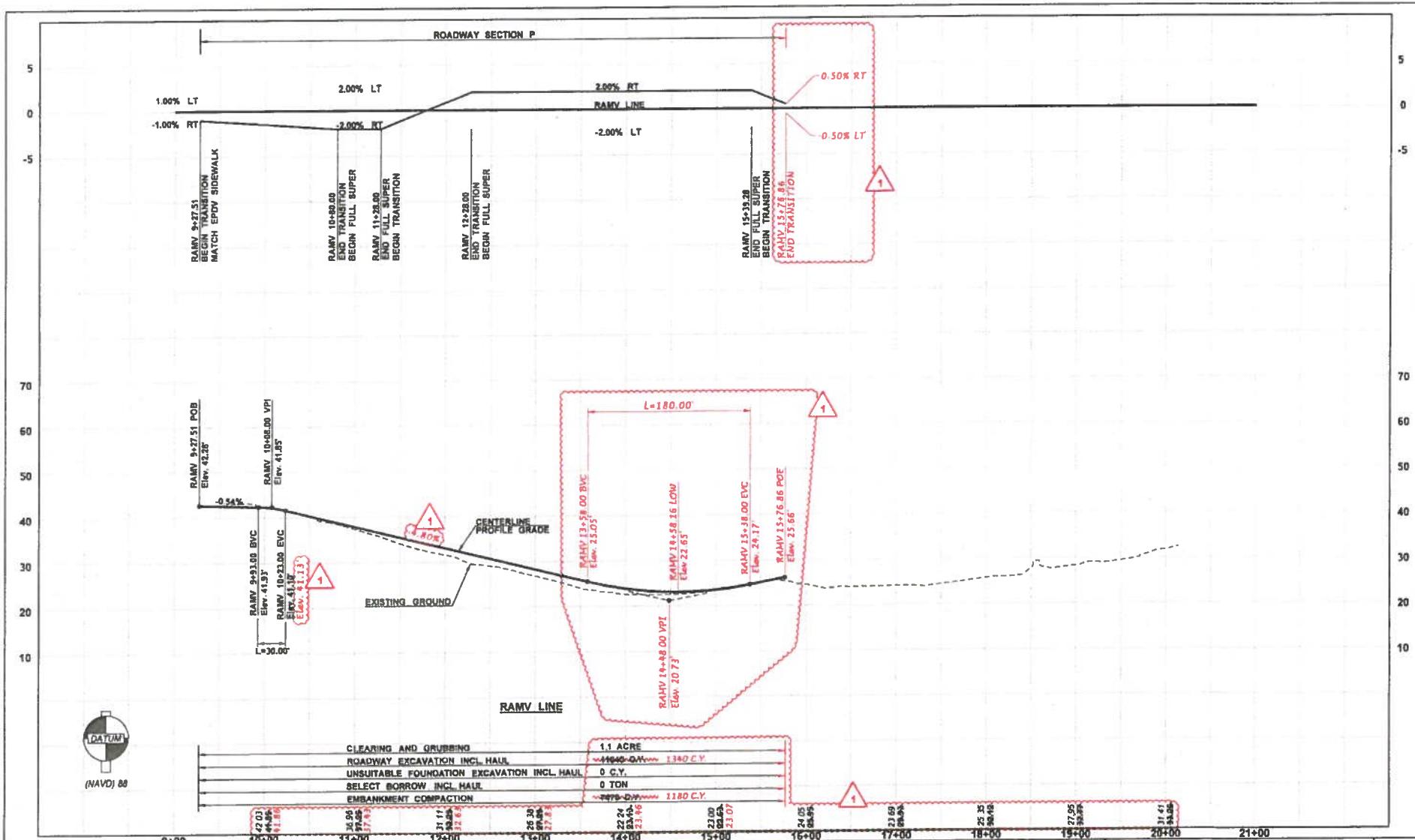


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Change Order 81
Page 18 of 72

SITE PREPARATION PLAN

PLAN REV. NO.
SP02A
DRAWN
1270
1797
SHEETS





FILE NAME	PW\Program\Design-Bid-Build\Contract_008623_WABM02.8 Contract Document\12.05_Contract Plans\12.05.02_As-built vs As-Built DGN\w10\116ba_C8625_F1_RP_14A_R1.dgn	REVISION NO.	STATE	FED.AID PROJ.NO.
TIME	5:58:21 PM			
DATE	3/10/2016		10	WASH
PLOTTED BY	SanchezA			JOB NUMBER
DESIGNED BY	C. LEE			
ENTERED BY	S. SHARPE		13A012	CONTRACT NO.
CHECKED BY	P. MERRELL			LOCATION NO.
PROJ. ENGR	D. EDWARDS	A CO#81 - DELETE FACILITY M	12/8/2015	PW
REGIONAL ADM.	J. MEREDITH	REVISION	DATE	BY

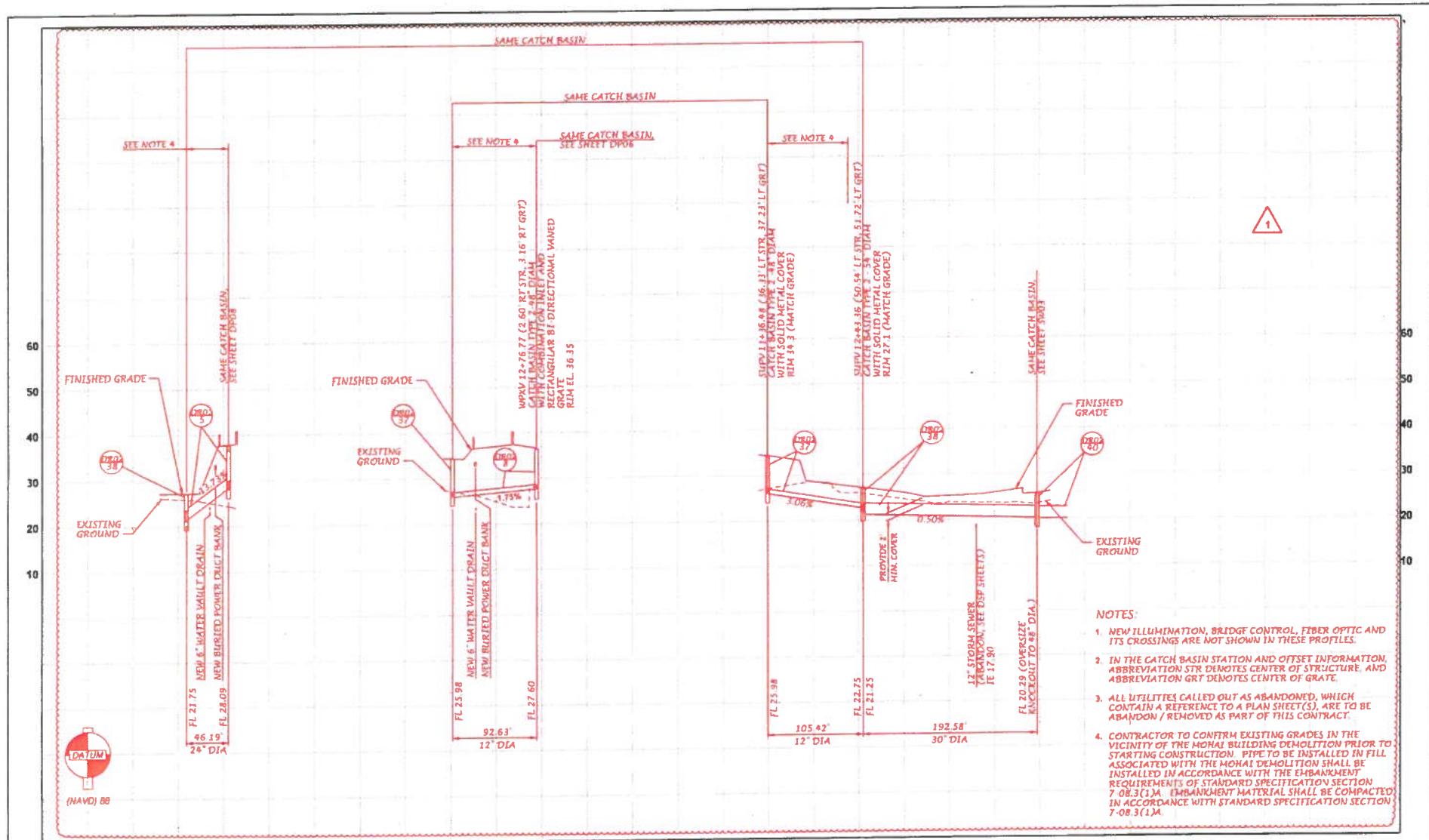


 Washington State
Department of Transportation

Contract 8625
Change Order 81
Page 20 of 72

ROADWAY PROFILE

REF. NO.
14A



FILE NAME	PW:\Program\Design-Bld\Build\Contract_008635_WABH\02.00_Contract Documents\1.05_Contract Plans\1.05.03_As-Built\As-Built DCR\10\W23441.CM025	FED.AID PROJ.NO.	
TIME	5:29:37 PM	REGION	STATE
DATE	3/10/2016	10	WASH
PLOTTED BY	SancheA	JOB NUMBER	
DESIGNED BY	J. VANIER	13A012	
ENTERED BY	J. BEAN	CONTRACT NO.	
CHECKED BY	J. COOP	LOCATION NO.	
PROJ.ENGR.	D. EDWARDS	A CO#B1 - DELETE FACILITY M	
REGIONAL ADM.	J. MEREDITH	REVISION	DATE BY



Contract 8625	PLAN REF. NO.
Change Order 81	DP11
Page 21 of 72	 SHEET 246a OF 1797 SHEETS

STRUCTURE NOTES - DRAINAGE

NOTE:
THE FIRST NUMBER OF THE "CODE
DESIGNATION" BELOW REFERS TO THE SHEET
NO. OR THE SHEET REFERENCE NO. SHOWING
THE DRAINAGE FEATURE.

THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

STRUCTURE NOTES - DRAINAGE

NOTE:
THE FIRST NUMBER OF THE "CODE
DESIGNATION" BELOW REFERS TO THE SHEET
NO. OR THE SHEET REFERENCE NO. SHOWING
THE DRAINAGE FEATURE.

THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

STRUCTURE NOTES - DRAINAGE

												GENERAL NOTES:				
CODE	LOCATION	UNIT OF MEASURE	COS SEWER CLEANOUT, 8 IN.	GATE VALVE 8 IN.	GATE VALVE 12 IN.	PREFABRICATED DRAINAGE MAT*	GEOSYNTHETIC CLAY LINER	CONCRETE LINER	STRUCTURE EXCAVATION CLASS B INCL. HAUL***	SHORING OR EXTRA EXCAVATION CLASS B***	GRAVEL BACKFILL FOR DRAIN	COS ADJUST EXISTING INLET	CONNECT TO DRAINAGE STRUCTURE	ADJUST MANHOLE **	ADJUST CATCH BASIN	SEE GENERAL NOTES
DR01-56	FXV 15+40.14 (11.93'LT, STK PT) - FXV 14+61.23 (0.07'RT, STR)	EACH	EACH	EACH	S.Y.	S.Y.	S.Y.	C.Y.	S.F.	C.Y.	EACH	EACH	EACH	EACH	39, 40, 41, 45	
DR01-57	FXV 14+24.85 (17.17'RT, STK PT) - FXV 14+61.23 (0.07'RT, STR)														39, 40, 41, 45	
DR01-58	DXEV 14+45.14 (21.67'RT) - DXEV 14+45.14 (16.78'LT)							40	290		1				1, 3, 7, 8, 26, 38A	
DR01-59	EDXV 15+61.56 (10.88'RT) - EDXV 14+49.12 (15.02'RT)							80	640						1, 3, 7, 8, 26, 38A, 48	
DR01-60	EDXV 14+49.12 (15.02'RT) - EDXV 14+49.12 (20.32'LT)							20	150						1, 3, 7, 8, 26, 38A	
DR01-61	EDXV 14+49.12 (20.32'LT) - EDXV 13+84.00 (19.86'LT)							30	280		1				1, 25, 29, 38A	
DR01-62	EDXV 13+84.00 (19.86'LT) - EDXV 12+98.24 (19.92'LT)							50	380						1, 3, 7, 8, 38A	
DR01-63	EDXV 12+98.24 (19.92'LT) - EDXV 12+01.84 (15.83'LT)							50	410						1, 3, 7, 8, 38A	
DR01-64	EDXV 12+01.84 (15.83'LT) - DXEV 14+45.14 (16.78'LT)							60	460		1				1, 3, 7, 8, 26, 38A	
DR01-65	EDXV 12+98.24 (15.83'LT) - EDXV 12+98.24 (19.92'LT)							20	160						30, 38A	
DR02-01	EPDV 13+27.77 (12.32' RT)										1				29	
DR02-02	EPDV 13+17.11 (10.77' RT)										1				29	
DR02-03	EPDV 13+01.92 (12.21' RT)														29	
DR02-05	SUPV 12+47.61 (4.53'LT STR, 5.43'LT GRT) - SUPV 12+43.36 (50.54'LT STR, 51.72'LT GRT)							60							1, 5, 7, 8, 45	
DR02-06	SUPV 15+13.17 (6.00'LT STR, 8.00'LT GRT) - SUPV 12+47.61 (4.53'LT STR, 5.43'LT GRT)							180							1, 5, 7, 8	
DR02-07	WPXV 12+51.32 (3.08'RT) - WPXV 12+78.77 (2.60'RT STR, 3.16'RT GRT)							20							1, 3, 7, 8	
DR02-08	WPXV 12+78.77 (2.60'RT STR, 3.16'RT GRT) - SUPV 11+36.48 (36.33'LT STR, 37.23'LT GRT)							50							1, 5, 7, 8, 44	
DR02-09	WPXV 13+03.72 (2.19'RT STR, 3.09'RT GRT) - WPXV 12+76.77 (2.60'RT STR, 3.16'RT GRT)							20							1, 5, 7, 8	
DR02-10	WPXV 13+66.14 (2.19'RT STR, 3.09'RT GRT) - WPXV 13+03.78 (2.19'RT STR, 3.09'RT GRT)							40							1, 5, 7, 8	
DR02-11	WDXV 20+30.62 (31.19'LT STR, 32.09'LT GRT) - WPXV 13+66.14 (2.19'RT STR, 3.09'RT GRT)							20							1, 5, 7, 8, 30	
DR02-12	WDXV 20+33.72 (2.18'RT STR, 3.08'RT GRT) - WDXV 20+30.62 (31.19'LT STR, 32.09'LT GRT)							20							1, 5, 7, 8	
DR02-13	WDXV 21+20.00 (3.08'RT) - WDXV 20+33.78 (2.18'RT STR, 3.08'RT GRT)							50							1, 3, 7, 8	
DR02-14	WDXV 21+20.00 (3.08'RT) - WDXV 21+20.00 (3.08'RT)							30							1, 3, 7, 8	
DR02-15	WDXV 22+10.00 (3.08'RT) - WDXV 21+20.00 (3.08'RT)							20							1, 3, 7, 8	
SHEET TOTAL								860	2760		2	4		1		
DESIGNED BY	R. NAIDU	09/23/13					REGION NO.	STATE	FED. AID PROJ. NO.						Contract 8625 Change Order 81 Page 24 of 72	
ENTERED BY	R. NAIDU	12/09/13							10	WASH					NT 14	
CHECKED BY	J. COOP	02/12/14													SHEET 221 OF 1787 SHEETS	
PROJ. ENGR.	D. EDWARDS	12/01/15	CO#81 - DELETE FACILITY M	JV			JOB NUMBER								STRUCTURE NOTES - DRAINAGE	
REGION ADM.	J. MEREDITH	DATE	DATE	REVISION	BY		CONTRACT NO.									

Washington State
Department of Transportation

STRUCTURE NOTES - DRAINAGE

NOTE: THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE.														GENERAL NOTES:	
CODE	LOCATION / UNIT OF MEASURE	DITCH EXCAVATION INCL. C.Y./HAUL	CONCRETE INLET EACH	GRATE INLET TYPE 2 EACH	CEMENT CONC. GUTTER L.F.	STREAMBED COBBLES TON	QUARRY SPALLS TON	UNDERDRAIN PIPE 6 IN. DIAM. L.F.	DRAIN PIPE 6 IN. DIAM. L.F.	DRAIN PIPE 12 IN. DIAM. L.F.	SCHEDULE A CULV. PIPE L.F. 18 IN. DIAM.	DEBRIS CAGE EACH	ATRIUM GRATE EACH	SEE GENERAL NOTES	
DR02-16	WDXV 22+50.00 (3.28'RT) - WDXV 22+10.00 (3.08'RT)													1, 3, 7, 8	
DR02-17	WDXV 22+69.87 (2.99'RT STR,3.89'LT GRT) - SUPV 15+13.17 (6.00'LT STR,6.90'LT GRT)													1, 5, 7, 8	
DR02-18	WDXV 22+89.87 (2.99'RT STR,3.89'LT GRT) - WDXV 23+27.72 (1.38'RT)													1, 25	
DR02-19	MLHV 14+14.12 (20.59'LT) - MLHV 13+85.97 (16.76'LT)													1, 3, 7, 9	
DR02-20	MLHV 14+33.81 (22.08'LT) - MLHV 14+14.12 (20.59'LT)													1, 3, 7, 8	
DR02-21	MLHV 14+68.38 (22.08'LT) - MLHV 14+33.81 (22.08'LT)													1, 3, 7, 8	
DR02-22	MLHV 16+15.89 (22.08'LT) - WDXV 20+33.78 (2.18'RT STR,3.08'RT GRT)													1, 4, 7, 8, 30	
DR02-23	MLV 588+51.57 (15.98'RT STR,16.88'RT GRT) - WDXV 22+89.87 (2.99'RT STR,3.89'LT GRT)													1, 5, 7, 8	
DR02-24	MLV 588+51.57 (15.98'RT STR,16.88'RT GRT) - MLV 588+90.84 (18.27'RT)													1, 25	
DR02-25	MRV 584+18.48 (40.50'LT) - MRV 584+34.15 (40.44'LT STR)													1, 13	
DR02-26	MRV 584+34.15 (40.44'LT STR) - DDEV 27+24.00 (17.23'LT STR,18.13'LT GRT)													1, 5, 7, 10	
DR02-27	MRV 586+50.89 (40.47'LT) - DDEV 29+43.39 (16.76'LT)	1												1, 6, 12	
DR02-28	MRV 588+60.00 (45.61'LT) - MRV 586+50.89 (40.47'LT)	1												1, 6, 12	
DR02-29	DDEV 26+93.67 (17.09'LT STR,17.99'LT GRT) - DDEV 27+24.00 (17.23'LT STR,18.13'LT GRT)													1, 5, 7, 8	
DR02-30	DDEV 27+24.00 (17.23'LT STR,18.13'LT GRT) - DDEV 28+61.79 (17.16'LT STR,18.06'LT GRT)													1, 5, 7, 8	
DR02-31	DDEV 28+61.79 (17.16'LT STR,18.06'LT GRT) - DDEV 28+91.64 (12.59'RT)													1, 5, 7, 8, 26	
DR02-32	DDEV 29+43.39 (16.78'LT) - DDEV 28+61.79 (17.16'LT STR,18.06'LT GRT)													1, 5, 7, 8	
DR02-33	DDEV 29+91.00 (17.25'LT) - DDEV 29+43.39 (16.78'LT)													1, 3, 7, 8	
DR02-34	DDEV 28+91.64 (12.59'RT)													29	
DR02-35	DDEV 31+41.85 (4.83'RT)													29	
DR02-36	RANN 10+16.79 (29.88'LT) - RANN 10+16.59 (44.20'RT)						0							13	
DR02-37	SUPV 11+36.48 (36.33'LT STR,37.23'LT GRT) - SUPV 12+43.38 (50.59'LT STR,51.72'LT GRT)													1, 5, 7, 10	
DR02-38	SUPV 12+43.36 (50.59'LT STR,51.72'LT GRT) - SUPV 14+37.09 (38.16'LT STR,36.17'LT GRT)													1, 5, 7, 10	
DR02-39	RAMV 10+15.19 (01.05'RT) - RAMV 10+16.62 (01)													0	
DR02-40	SUPV 14+37.09 (38.16'LT STR,36.17'LT GRT) - WPXV 17+04.71 (58.67'LT)													0	
SHEET TOTAL			2		0								0	0	
DESIGNED BY	R. NAIDU	09/23/13				10	WASH								
ENTERED BY	R. NAIDU	12/09/13				JOB NUMBER	13A012								
CHECKED BY	J.COOP	02/12/14				CONTRACT NO.									
PROJ. ENGR.	D. EDWARDS														
REGION ADM.	J. MEREDITH	12/01/15	CO#81 - DELETE FACILITY M	JV	BY										
DATE	DATE	REVISION													

Washington State
Department of Transportation

Contract 8625
Change Order 81
Page 25 of 72

STRUCTURE NOTES - DRAINAGE

NT 16
SHEET 223
OF 1797
SHEETS

13A. SEE TYPE 2 SAFETY BARS FOR
CULVERT PIPE OR PIPE ARCH (ON CROSS
ROAD) - STANDARD PLAN B 75 60-00

STRUCTURE NOTES - DRAINAGE

STRUCTURE NOTES - DRAINAGE												GENERAL NOTES:	
CODE	LOCATION & UNIT OF MEASURE	EACH	L.F.	EACH	EACH	EACH	EACH	EACH	EACH	L.F.	L.F.	SEE GENERAL NOTES	
DR02-16	WDXV 22+50.00 (3.28'RT) - WDXV 22+10.00 (3.06'RT)				1					40		1, 3, 7, 8	
DR02-17	WDXV 22+69.57 (2.99'RT STR,3.89'RT GRT) - SUPV 15+13.17 (6.00'LT STR,8.90'LT GRT)				1					75		1, 5, 7, 8	
DR02-18	WDXV 22+69.87 (2.99'RT STR,3.89'LT GRT) - WDXV 23+27.72 (1.38'RT)									38		1, 25	
DR02-19	MLHV 14+14.12 (20.59'LT) - MLHV 13+65.97 (16.76'LT)			1						28		1, 3, 7, 9	
DR02-20	MLHV 14+33.81 (22.08'LT) - MLHV 14+14.12 (20.59'LT)			1						20		1, 3, 7, 8	
DR02-21	MLHV 14+66.38 (22.08'LT) - MLHV 14+33.81 (22.08'LT)			1						32		1, 3, 7, 8	
DR02-22	MLHV 16+15.89 (22.08'LT) - WDXV 20+33.78 (2.18'RT STR,3.08'RT GRT)			1						20		1, 4, 7, 8, 30	
DR02-23	MLV 568+51.57 (15.98'RT STR,16.88'RT GRT) - WDXV 22+69.87 (2.99'RT STR,3.89'LT GRT)				1					52		1, 5, 7, 8	
DR02-24	MLV 568+51.57 (15.98'RT STR,16.88'RT GRT) - MLV 568+90.88 (18.27'RT)									38		1, 25	
DR02-25	MRV 564+18.48 (40.50'LT) - MRV 564+34.15 (40.44'LT STR)									15		1, 13	
DR02-26	MRV 564+34.15 (40.44'LT STR) - DXEV 27+24.00 (17.23'LT STR,18.13'LT GRT)				1					59		1, 5, 7, 10	
DR02-27	MRV 566+50.89 (40.47'LT) - DXEV 29+43.39 (16.76'LT)									59		1, 6, 12	
DR02-28	MRV 568+00.00 (45.61'LT) - MRV 568+50.89 (40.47'LT)									208		1, 6, 12	
DR02-29	DXEV 26+93.67 (17.09'LT STR,17.99'LT GRT) - DXEV 27+24.00 (17.23'LT STR,18.13'LT GRT)			1						30		1, 5, 7, 8	
DR02-30	DXEV 27+24.00 (17.23'LT STR,18.13'LT GRT) - DXEV 28+81.79 (17.18'LT STR,18.06'LT GRT)			1						157		1, 5, 7, 8	
DR02-31	DXEV 28+81.79 (17.18'LT STR,18.06'LT GRT) - DXEV 28+91.64 (12.59'RT)			1						31		1, 5, 7, 8, 26	
DR02-32	DXEV 29+43.39 (16.76'LT) - DXEV 28+81.79 (17.18'LT STR,18.06'LT GRT)				1					61		1, 5, 7, 8	
DR02-33	DXEV 29+91.00 (17.25'LT) - DXEV 29+43.39 (16.76'LT)					1				47		1, 3, 7, 8	
DR02-34	DXEV 28+81.64 (12.59'RT)									29		29	
DR02-35	DXEV 31+41.85 (4.83'RT)									13			
DR02-36	RAMV 19+18.70 (23.30'LT) - RAMV 19+10.33 (14.29'RT)					1	0		105	0		1, 5, 7, 10	
DR02-37	SUPV 11+36.48 (36.33'LT STR,37.23'LT GRT) - SUPV 12+43.36 (50.54'LT STR,51.72'LT GRT)					1			193	193		1, 5, 7, 10	
DR02-38	SUPV 12+43.36 (50.54'LT STR,51.72'LT GRT) - SUPV 14+37.09 (38.16'LT STR,36.17'LT GRT)						0		0	0		1, 5, 13, 33, 40	
DR02-39	RAMV 16+49.43 (34.85'LT) - RAMV 16+48.02 (6')						0		1	154	154	1, 5, 7, 8, 13, 13a	
DR02-40	SUPV 14+37.09 (38.16'LT STR,36.17'LT GRT) - WPXV 17+04.71 (58.67'LT)							1		1462	347		
SHEET TOTAL													
					1	5	8	1					
DESIGNED BY	R. NAIDU	09/23/13		REGION NO.	STATE	FED. AID PROJ. NO.						Contract 8625 Change Order 81 Page 26 of 72	
ENTERED BY	R. NAIDU	12/09/13				10	WASH					NT 17	
CHECKED BY	J.COOP	02/12/14					JOB NUMBER					SHEET 224	
PROJ. ENGR.	D. EDWARDS						13A012					OF 1797	
REGION ADM.	J. MEREDITH						CONTRACT NO.					STRUCTURE NOTES - DRAINAGE SHEETS	
		12/01/15	⚠ COB1 - DELETE FACILITY M		REVISION	BY							

Washington State
Department of Transportation

STRUCTURE NOTES - DRAINAGE

STRUCTURE NOTES - DRAINAGE												GENERAL NOTES:																
CODE	LOCATION & UNIT OF MEASURE	CL. V REINF. CONC. STORM SEWER PIPE 12 IN. DIAM.		SCHEDULE A STORM SEWER PIPE 8 IN. DIAM.		SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.		SCHEDULE A STORM SEWER PIPE 15 IN. DIAM.		SCHEDULE A STORM SEWER PIPE 18 IN. DIAM.		SCHEDULE A STORM SEWER PIPE 24 IN. DIAM.		COS MAINT HOLE, TYPE 204B		COS CATCH BASIN, TYPE 240A		COS CATCH BASIN, TYPE 242B		SEWER CLEANOUT		DUCTILE IRON SEWER PIPE 12 IN. DIAM.		SEE GENERAL NOTES				
		L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	
DR02-16	WDXV 22+50.00 (3.28'RT) - WDXV 22+10.00 (3.08'RT)					40																					1, 3, 7, 8	
DR02-17	WDXV 22+89.87 (2.99'RT STR,3.89'LT GRT) - SUPV 15+13.17 (6.00'LT STR,8.90'LT GRT)																										1, 5, 7, 8	
DR02-18	WDXV 22+89.87 (2.99'RT STR,3.89'LT GRT) - WDXV 23+27.72 (1.38'RT)																										38	1, 25
DR02-19	MLHV 14+14.12 (20.59'LT) - MLHV 13+85.97 (16.76'LT)					28																					1, 3, 7, 8	
DR02-20	MLHV 14+33.81 (22.08'LT) - MLHV 14+14.12 (20.59'LT)					20																					1, 3, 7, 8	
DR02-21	MLHV 14+66.38 (22.08'LT) - MLHV 14+33.81 (22.08'LT)					32																					1, 3, 7, 8	
DR02-22	MLHV 18+15.98 (22.08'LT) - WDXV 20+33.78 (2.18'RT STR,3.08'RT GRT)					20																					1, 4, 7, 8, 30	
DR02-23	MLV 568+51.57 (15.98'RT STR,16.88'RT GRT) - WDXV 22+89.87 (2.99'RT STR,3.89'LT GRT)																										1, 5, 7, 8	
DR02-24	MLV 568+51.57 (15.98'RT STR,16.88'RT GRT) - MLV 568+90.68 (18.27'RT)																										38	1, 25
DR02-25	MRV 564+18.48 (40.44'LT) - MRV 564+34.15 (40.44'LT STR)					15																					1, 13	
DR02-26	MRV 564+34.15 (40.44'LT STR) - DXEV 27+24.00 (17.23'LT STR,18.13'LT GRT)							59																			1, 5, 7, 10	
DR02-27	MRV 568+50.89 (40.47'LT) - DXEV 29+43.39 (16.76'LT)					59																					1, 6, 12	
DR02-28	MRV 568+60.00 (45.61'LT) - MRV 568+50.89 (40.47'LT)					208																					1, 6, 12	
DR02-29	DXEV 26+93.67 (17.09'LT STR,17.99'LT GRT) - DXEV 27+24.00 (17.23'LT STR,18.13'LT GRT)							30																			1, 5, 7, 8	
DR02-30	DXEV 27+24.00 (17.23'LT STR,18.13'LT GRT) - DXEV 28+61.79 (17.16'LT STR,18.06'LT GRT)							157																			1, 5, 7, 8	
DR02-31	DXEV 28+61.79 (17.16'LT STR,18.06'LT GRT) - DXEV 28+91.84 (12.58'RT)							31																			1, 5, 7, 8, 26	
DR02-32	DXEV 29+43.39 (16.78'LT) - DXEV 28+61.79 (17.16'LT STR,18.06'LT GRT)					61																					1, 5, 7, 8	
DR02-33	DXEV 29+91.00 (17.25'LT) - DXEV 29+43.39 (16.76'LT)					47																					1, 3, 7, 8	
DR02-34	DXEV 28+91.84 (12.58'RT)																										29	
DR02-35	DXEV 31+41.65 (4.83'RT)																										29	
DR02-36	RAMV 10+18.75 (3.98'LT) - RAMV 10+18.55 (4.43'LT)																										13	
DR02-37	SUPV 12+36.48 (36.33'LT STR,37.13'LT GRT) - SUPV 12+43.36 (50.54'LT STR,51.72'LT GRT)							105																			1, 5, 7, 10	
DR02-38	SUPV 12+43.36 (50.54'LT STR,51.72'LT GRT) - SUPV 14+37.09 (38.16'LT STR,36.17'LT GRT)																										1, 5, 7, 10	
DR02-39	SUPV 14+37.09 (38.16'LT STR,36.17'LT GRT) - WPXV 17+04.71 (58.67'LT)					0																					1, 5, 13, 33, 49	
DR02-40	WPXV 17+04.71 (58.67'LT)																										1, 5, 7, 13, 13a	
SHEET TOTAL		0	635			59	188	127																	76			
DESIGNED BY	R. NAIDU	09/23/13																									NT 18	
ENTERED BY	R. NAIDU	12/09/13																									SHEET	
CHECKED BY	J. COOP	02/12/14																									225	
PROJ. ENGR.	D. EDWARDS																										1787	
REGION ADM.	J. MEREDITH	12/01/15																									STRUCTURE NOTES - DRAINAGE	
DATE	DATE	REVISION	BY																									

Washington State
Department of Transportation

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STRUCTURE NOTES - DRAINAGE

STRUCTURE NOTES - DRAINAGE

												GENERAL NOTES:			
CODE	LOCATION & UNIT OF MEASURE	EACH	EACH	EACH	S.Y.	S.Y.	S.Y.	C.Y.	S.F.	C.Y.	EACH	EACH	EACH	EACH	SEE GENERAL NOTES
DR02-16	WDXV 22+50.00 (3.28'RT) - WDXV 22+10.00 (3.08'RT)							20							1, 3, 7, 8
DR02-17	WDXV 22+89.87 (2.99'RT STR,3.89'LT GRT) - SUPV 15+13.17 (8.00'LT STR,8.90'LT GRT)							60							1, 5, 7, 8
DR02-18	WDXV 22+89.87 (2.99'RT STR,3.89'LT GRT) - WDXV 23+27.72 (1.38'RT)							20							1, 25
DR02-19	MLHV 14+14.12 (20.59'LT) - MLHV 13+85.97 (16.76'LT)							30	200						1, 3, 7, 9
DR02-20	MLHV 14+33.81 (22.08'LT) - MLHV 14+14.12 (20.59'LT)							20	130						1, 3, 7, 8
DR02-21	MLHV 14+68.38 (22.08'LT) - MLHV 14+33.81 (22.08'LT)							20	180						1, 3, 7, 8
DR02-22	MLHV 16+15.99 (22.08'LT) - WDXV 20+33.78 (2.18'RT STR,3.08'RT GRT)							10							1, 4, 7, 8, 30
DR02-23	MLV 568+51.57 (15.98'RT STR,16.88'RT GRT) - WDXV 22+89.87 (2.99'RT STR,3.89'LT GRT)							40							1, 5, 7, 8
DR02-24	MLV 568+51.57 (15.98'RT STR,16.88'RT GRT) - MLV 568+90.88 (18.27'RT)							20							1, 25
DR02-25	MRV 564+18.48 (40.50'LT) - MRV 564+34.15 (40.44'LT STR)							10							1, 13
DR02-26	MRV 564+34.15 (40.44'LT STR) - DXEV 27+24.00 (17.23'LT STR,18.13'LT GRT)							60	440						1, 5, 7, 10
DR02-27	MRV 568+50.89 (40.47'LT) - DXEV 29+43.39 (16.76'LT)							90	660						1, 6, 12
DR02-28	MRV 568+60.00 (45.61'LT) - MRV 568+50.89 (40.47'LT)							270	2110						1, 6, 12
DR02-29	DXEV 26+93.67 (17.09'LT STR,17.99'LT GRT) - DXEV 27+24.00 (17.23'LT STR,18.13'LT GRT)							40	260						1, 5, 7, 8
DR02-30	DXEV 27+24.00 (17.23'LT STR,18.13'LT GRT) - DXEV 26+81.79 (17.18'LT STR,18.06'LT GRT)							180	1320						1, 5, 7, 8
DR02-31	DXEV 28+81.79 (17.16'LT STR,18.06'LT GRT) - DXEV 28+81.84 (12.59'RT)							50	350		1				1, 5, 7, 8, 26
DR02-32	DXEV 29+43.39 (16.78'LT) - DXEV 28+81.79 (17.16'LT STR,18.06'LT GRT)							60	460						1, 5, 7, 8
DR02-33	DXEV 29+91.00 (17.25'LT) - DXEV 29+43.39 (16.76'LT)							30	260						1, 3, 7, 8
DR02-34	DXEV 28+91.84 (12.59'RT)										1				28
DR02-35	DXEV 31+41.85 (4.83'RT)										1				20
DR02-36	RAMV 10+18.70 (33.89'LT) - RAMV 10+18.68 (14.42'RT)														13
DR02-37	SUPV 11+36.48 (36.33'LT STR,37.13'LT GRT) - SUPV 12+43.36 (50.54'LT STR,51.72'LT GRT)							80	610						1, 5, 7, 10
DR02-38	SUPV 12+43.36 (50.54'LT STR,51.72'LT GRT) - SUPV 14+37.09 (38.16'LT STR,36.17'LT GRT)								200	1010					1, 5, 7, 10
DR02-39	SUPV 14+37.09 (38.16'LT STR,36.17'LT GRT) - RAMV 10+19.10 (31.06'RT) - RAMV 10+10.82 (10')	0							0	0					1, 5, 13, 33, 49
DR02-40	WPXV 17+04.71 (58.67'LT)								180	850					1, 5, 7, 8, 13, 13a
SHEET TOTAL				0				1490	8840		1	1	1		
DESIGNED BY	R. NAI DU	09/23/13						10	WASH						Contract 8625 Change Order 81 Page 28 of 72
ENTERED BY	R. NAI DU	12/09/13													NT 19
CHECKED BY	J. COOP	02/12/14													SHEET 226 OF 1797 SHEETS
PROJ. ENGR.	D. EDWARDS														
REGION ADM.	J. MEREDITH														
															STRUCTURE NOTES - DRAINAGE



STRUCTURE NOTES - DRAINAGE

NOTE:
THE FIRST NUMBER OF THE "CODE
DESIGNATION" BELOW REFERS TO THE SHEET
NO. OR THE SHEET REFERENCE NO. SHOWING
THE DRAINAGE FEATURE.

THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

STRUCTURE NOTES - DRAINAGE

NOTE:
THE FIRST NUMBER OF THE "CODE
DESIGNATION" BELOW REFERS TO THE SHEET
NO. OR THE SHEET REFERENCE NO. SHOWING
THE DRAINAGE FEATURE.

THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

CODE	LOCATION	UNIT OF MEASURE	C.Y.	EACH	EACH	L.F.	TON	TON	L.F.	L.F.	L.F.	L.F.	EACH	EACH
DR02-41	WPXV 17+0.70 (58.40 LT) - WPXV 17+35.52 (57.95 LT)	30				76			142	5				1,16,18,
DD01-01	WDXV 11+83.04 (31.11' LT) - WDXV 13+10.16 (29.59' LT)								128	6				1,16,18,
DD01-02	WDXV 13+13.27 (37.14' LT) - WDXV 14+42.00 (32.06' LT)								387	20				1,16,17,17,
DD01-03	MLV 957+17.87 (27.16' LT) - MLHV 11+42.05 (16.53' LT)								195	4				1,16,17,34
DD01-04	EDXV 12+96.24 (15.80' RT) - EDXV 14+89.04 (16.89' RT)													
DD02-01	WPXV 15+24.20 (36.74' LT) WPXV 17+04.64 (56.23' LT)								299	59				1,16,19, 32,34,
DD02-02	WDXV 14+47.29 (33.72' LT) - WDXV 16+81.41 (32.08' LT)								304	9				1,16,20,
DD02-02A	WDXV 16+90.60 (50.23' LT) - WDXV 20+27.09 (37.14' LT)								330	12				31,34, 1,18,
DD02-03	WDXV 20+30.62 (31.19' LT) - WDXV 21+44.68 (40.71' LT)								109	7				1,18, 34, 3,
DD02-04	WDXV 14+65.82 (0.75' RT) - MLHV 12+65.00 (10.18' LT)								293	10				1, 16, 21, 34,
DD02-05	MLHV 13+38.42 (14.68' LT) - MLHV 18+13.74 (25.81' LT)								286	6				1, 16, 34, 3,
DD02-06	MLHV 16+15.99 (22.08' LT) - MLHV 17+35.05 (25.37' LT)								119	6				1,16,17,
DD02-07	MLHV 11+39.21 (6.57' RT) - MLV 582+51.04 (14.24' LT)								112	38				1,16,20,
DD02-08	MLV 582+19.78 (18.15' LT) - MLV 584+13.89 (21.53' LT)								192	7				1,16,17,
DD02-09	RAMV 18+08.78 (0.04' LT) - RAMV 18+28.56 (0.04' LT)										0			1, 7, 10, 33, 38,
DD02-10	RAMV 18+37.41 (7.40' LT) TO RAMV 15+58.00 (20.01' LT)										0			1, 16, 38
SWR0-01	FAGM 10+00 (0') TO FAGM 10+85.17 (0')						0							
SWR0-02	RAMV 10+83 (30.0' LT) - RAMV 18+80 (02.0' LT)								0					
SWR0-03	RAMV 10+77 (30.0' LT) - RAMV 16+42.02 (36.0' RT)													
TDR01-1	WPXT 14+38.98 (22.08' LT) TO WDXT 19+95.28 (25.68' LT)													1, 4, 7,
TDR01-2	WPXT 14+89.72 (22.08' LT) TO WPXT 14+39.96 (22.08' LT)													1, 3, 7,
TDR01-3	WPXT 15+08.36 (22.08' LT) TO WPXT 14+58.72 (22.08' LT)													1, 3, 7,
TDR01-4	WDXT 16+42.44 (29.08' LT) TO WDXT 19+09.85 (29.08' LT)													1, 3, 7,
TDR01-5	WDXT 19+09.85 (29.08' LT) TO WDXT 19+42.44 (29.08' LT)													1, 3, 7,
TDR01-6	WDXT 19+42.44 (29.08' LT) TO WDXT 19+95.28 (25.68' LT)													1, 3, 7,
TDR01-7	WDXT 19+95.28 (25.68' LT) TO WDXT 20+02.04 (28.31 RT)													1, 4, 7,
SHEET TOTAL:		30				76	0		2876	192	0			4
REC. INCHES TOTAL:		0		0		0			3204	798	0			

GENERAL NOTES:

1. SEE PIPE ZONE BEDDING AND BACKFILL - STANDARD PLAN B-55.20-00 FOR STORM SEWER, CULVERT, AND DRAIN PIPES. SEE PV SHEETS FOR ROADWAY RESTORATION ASSOCIATED WITH TRENCHING ACTIVITIES.
 2. SEE CONCRETE INLET - STANDARD PLAN B-25.60-00. SEE SHEET DD11 FOR CONCRETE INLET ELEVATIONS.
 3. SEE CATCH BASIN TYPE 1 - STANDARD PLAN B-5.20-01
 4. SEE CATCH BASIN TYPE 1L - STANDARD PLAN B-5.40-01
 5. SEE CATCH BASIN TYPE 2 - STANDARD PLAN B-10.20-01.
 6. SEE GRATE INLET TYPE 2 - STANDARD PLAN B-35.40-00.
 7. SEE RECTANGULAR FRAME (REVERSIBLE) - STANDARD PLAN B-30.10-01.
 8. SEE RECTANGULAR VANED GRATE - STANDARD PLAN B-30.30-01.
 9. SEE RECTANGULAR BI-DIRECTIONAL VANED GRATE - STANDARD PLAN B-30.40-01.
 10. SEE RECTANGULAR SOLID METAL COVER - STANDARD PLAN B-30.20-02.
 11. SEE COMBINATION INLET - STANDARD PLAN B-25.20-01
 12. SEE WELDED GRATES FOR GRATE INLET, GRATE "B" - STANDARD PLAN B-40.20-00.
 13. SEE BEVELED END SECTIONS (FOR CULVERTS 30" DIAMETER OR LESS) - STANDARD PLAN B-70.20-00.
 - 13A. SEE TYPE 2 SAFETY BARS FOR CULVERT PIPE OR PIPE ARCH (ON CROSS ROAD) - STANDARD PLAN B 75 60 00

 Washington State
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STRUCTURE NOTES - DRAINAGE

NT 31

6

SHEET

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6

1181

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STRUCTURE NOTES - DRAINAGE

NOTE:
THE FIRST NUMBER OF THE "CODE
DESIGNATION" BELOW REFERS TO THE SHEET
NO. OR THE SHEET REFERENCE NO. SHOWING
THE DRAINAGE FEATURE.

THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.

NOTE: THE FIRST NUMBER OF THE "CODE DESIGNATION" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE DRAINAGE FEATURE.											
THE SECOND NUMBER REFERS TO THE DRAINAGE FEATURE FOUND ON THAT SHEET.											
		ECON INLET, TYPE 250B									
CODE	LOCATION	Y	UNIT OF MEASURE	EACH	I.F.	EACH	EACH	EACH	EACH	EACH	EACH
OR02-41	WPXV 17+04.70 (58.40' LT)	WPXV 17+35.32 (57.95' LT)									
DD01-01	WDXV 11+63.04 (31.11' LT)	- WDXV 13+10.16 (29.59' LT)									
DD01-02	WDXV 13+13.27 (37.14' LT)	- WDXV 14+42.00 (32.06' LT)									
DD01-03	MLV 557+17.87 (27.16' LT)	- MLHV 11+42.05 (16.53' LT)									
DD01-04	EDXV 12+98.24 (15.90' RT)	- EDXV 14+89.04 (16.89' RT)									
DD02-01	WPXV 15+24.20 (36.74' LT) WPXV 17+04.64 (56.23' LT)										
DD02-02	WDXV 14+47.29 (33.72' LT) - WDXV 18+81.41 (32.08' LT)										
DD02-02a	WDXV 18+90.60 (50.23' LT) - WDXV 20+27.08 (37.14' LT)										
DD02-03	WDXV 20+30.62 (31.19' LT) - WDXV 21+44.61 (40.71' LT)										
DD02-04	WDXV 14+65.82 (0.75' RT) - MLHV 12+65.00 (10.18' LT)										
DD02-05	MLHV 13+38.42 (14.68' LT) - MLHV 16+13.74 (25.81' LT)										
DD02-06	MLHV 16+15.99 (22.08' LT) - MLHV 17+35.85 (25.37' LT)										
DD02-07	MLHV 11+89.21 (6.87' RT) - MLV 582+51.04 (14.24' LT)										
DD02-08	MLV 582+19.79 (18.15' LT) - MLV 584+13.89 (21.53' LT)										
DD02-09	RAMV 16+08.76 (0.15' LT) - RAMV 16+29.55 (2.04' LT)						0				
DD02-10	RAMV 16+51.47 (0.15' LT) TO RAMV 16+58.89 (0.81' LT)										
GW02-01	FACM 10+00 (0' TO FACM 10+88.17 (0')										
GW02-02	RAMV 16+00 (0.00' LT) - RAMV 16+08 (0.00' LT)										
GW02-03	RAMV 16+77 (45.84' LT) - RAMV 16+42.63 (36.1' RT)										
TDR01-1	WPXT 14+38.96 (22.08' LT) TO WDXT 18+95.28 (25.85' LT)		1								
TDR01-2	WPXT 14+59.72 (22.08' LT) TO WPXT 14+89.56 (22.08' LT)		1								
TDR01-3	WPXT 15+08.36 (22.08' LT) TO WPXT 14+59.72 (22.08' LT)		1								
TDR01-4	WDXT 18+42.44 (29.08' LT) TO WDXT 19+09.85 (29.08' LT)		1								
TDR01-5	WDXT 19+09.85 (29.08' LT) TO WDXT 19+42.44 (29.08)		1								
TDR01-6	WDXT 19+42.44 (29.08' LT) TO WDXT 19+95.28 (25.66' LT)		1								
TDR01-7	WDXT 19+95.28 (25.66' LT) TO WDXT 20+02.04 (28.31 RT)		1								
SHEET TOTAL			2	5			0		344		
PROJECT TOTAL			11	42	24	1	1	5214	347	29	

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STRUCTURE NOTES - DRAINAGE

GENERAL NOTES:															
CODE	LOCATION	UNIT OF MEASURE	L.F.	SCHEDULE A STORM SEWER PIPE	L.F.	SCHEDULE A STORM SEWER PIPE	L.F.	SCHEDULE A STORM SEWER PIPE	L.F.	CASING PIPE, 24 IN. DIAM.	COS MAINT HOLE, TYPE 204B	COS CATCH BASIN, TYPE 240A	SEWER CLEANOUT	DUCTILE IRON SEWER PIPE	SEE GENERAL NOTES
DR02-41	WPXV 17+09.70 (58.40' LT) - WPXV 17+35.52 (57.95' LT)	L.F.													
DD01-01	WDXV 11+63.04 (31.11' LT) - WDXV 13+10.16 (29.59' LT)	L.F.													
DD01-02	WDXV 13+13.27 (37.14' LT) - WDXV 14+42.00 (32.08' LT)	L.F.													
DD01-03	MLV 557+17.87 (27.16' LT) - MLV 11+42.05 (16.53' LT)	L.F.													
DD01-04	EDXV 12+06.24 (15.90' RT) - EDXV 14+89.04 (16.89' RT)	L.F.													
D002-01	WPXV 15+24.20 (36.74' LT) WPXV 17+04.64 (56.23' LT)	L.F.													
D002-02	WDXV 14+47.29 (33.72' LT) - WDXV 16+91.41 (32.08' LT)	L.F.													
D002-02a	WDXV 16+90.60 (50.23' LT) - WDXV 20+27.09 (37.14' LT)	L.F.													
D002-03	WDXV 20+30.62 (31.19' LT) - WDXV 21+44.68 (40.71' LT)	L.F.													
D002-04	WDXV 14+65.62 (0.75' RT) - MLHV 12+65.00 (10.18' LT)	L.F.													
D002-05	MLHV 13+36.42 (14.88' LT) - MLHV 16+13.74 (25.61' LT)	L.F.													
D002-06	MLHV 16+15.99 (22.08' LT) - MLHV 17+35.85 (25.37' LT)	L.F.													
D002-07	MLHV 11+89.21 (6.87' RT) - MLV 582+51.04 (14.24' LT)	L.F.													
D002-08	MLV 582+19.79 (18.15' LT) - MLV 584+13.89 (21.53' LT)	L.F.													
D003-00	RAMV 18+08.76 (0.15' LT) - RAMV 18+20.55 (2.04' LT)	L.F.													
D003-10	RAMV 18+37.11 (7.40' LT) TO RAMV 18+59.00 (7.84' LT)	L.F.													
GW02-01	FACM 10+00 (0') TO FACM 10+68.17 (0')	L.F.													
GW02-02	RAMV 18+03 (39.8' LT) - RAMV 18+00 (50.0' LT)	L.F.													
GW02-03	RAMV 18+77 (43.94' LT) - RAMV 18+42.62 (36.14' LT)	L.F.													
TDR01-1	WPXT 14+38.98 (22.08' LT) TO WDXT 19+95.28 (25.08' LT)	L.F.	70												
TDR01-2	WPXT 14+59.72 (22.08' LT) TO WPXT 14+38.98 (22.08' LT)	L.F.	21												
TDR01-3	WPXT 15+08.38 (22.08' LT) TO WPXT 14+58.72 (22.08' LT)	L.F.	46												
TDR01-4	WDXT 18+42.44 (29.08' LT) TO WDXT 19+08.65 (28.08' LT)	L.F.	67												
TDR01-5	WDXT 19+08.65 (29.08' LT) TO WDXT 19+42.44 (29.08' LT)	L.F.	32												
TDR01-6	WDXT 19+42.44 (29.08' LT) TO WDXT 19+95.28 (25.08' LT)	L.F.	53												
TDR01-7	WDXT 19+95.28 (25.08' LT) TO WDXT 20+02.04 (28.31' RT)	L.F.	55												
SHEET TOTAL		344													
PROJECT TOTAL		344	543	2846	403	188	438	15	1	2	2	44	76		
					REGION NO.	STATE	FED. AID PROJ. NO.								
DESIGNED BY	R. NAIDU	09/23/13			10	WASH									
ENTERED BY	R. NAIDU	12/09/13													
CHECKED BY	J.COOD	02/12/14					JOB NUMBER 13A012								
PROJ. ENGR.	D. EDWARDS						CONTRACT NO.								
REGION ADM.	J. MEREDITH	12/01/15	1	CO#81- DELETE FACILITY M	JV	BY									
				REVISION											



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STRUCTURE NOTES - DRAINAGE

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STRUCTURE NOTES - DRAINAGE

												GENERAL NOTES:					
CODE	LOCATION & UNIT OF MEASURE	EACH	EACH	EACH	S.Y.	S.Y.	S.Y.	C.Y.	S.F.	C.Y.	EACH	EACH	EACH	EACH	EACH	SEE GENERAL NOTES	
DR02-41	WPXV 17+04.70 (3R 40' LT) - WPXV 17+35.52 (37.95' LT)									60						1, 16, 18, 34, 36	
DD01-01	WDXV 11+83.04 (31.11' LT) - WDXV 13+10.16 (29.59' LT)									55						1, 16, 18, 34, 36	
DD01-02	WDXV 13+13.27 (37.14' LT) - WDXV 14+42.00 (32.08' LT)									52						1, 16, 17, 34, 36	
DD01-03	MLV 557+17.87 (27.16' LT) - MLHV 11+42.05 (16.53' LT)									32						1, 16, 17, 34, 35, 36	
DD01-04	EDXV 12+96.24 (15.90' RT) - EDXV 14+89.04 (16.89' RT)																
DD02-01	WPXV 15+24.20 (36.74' LT) WPXV 17+04.64 (56.23' LT)									43						1, 16, 19, 21, 32, 34, 36	
DD02-02	WDXV 14+47.29 (33.72' LT) - WDXV 16+91.41 (32.08' LT)									87						1, 16, 20, 21, 31, 34, 36	
DD02-02a	WDXV 16+80.60 (50.23' LT) - WDXV 20+27.09 (37.14' LT)									106						1, 16, 18, 21, 34, 36	
DD02-03	WDXV 20+30.62 (31.19' LT) - WDXV 21+44.68 (40.71' LT)									46						1, 16, 18, 34, 36	
DD02-04	WDXV 14+65.62 (0.75' RT) - MLHV 12+65.00 (10.18' LT)									112						1, 16, 20, 21, 34, 36	
DD02-05	MLHV 13+38.42 (14.88' LT) - MLHV 16+13.74 (25.61' LT)									52						1, 16, 17, 34, 36	
DD02-06	MLHV 16+15.99 (22.06' LT) - MLHV 17+35.85 (25.37' LT)									23						1, 16, 17, 34, 36	
DD02-07	MLHV 11+69.21 (6.67' RT) - MLV 562+51.04 (14.24' LT)									42						1, 16, 20, 34, 36	
DD02-08	MLV 562+19.76 (16.15' LT) - MLV 564+13.89 (21.53' LT)									11						1, 16, 17, 34, 36	
RAMV-06	RAMV 18+08.76 (0.45' LT) RAMV 18+28.55 (0.04' LT)			0												1, 7, 10, 16, 33, 36, 38B, 38C	
RAMV-10	RAMV 18+57.11 (0.11' LT) TO RAMV 18+50.00 (7.81' LT)															1, 16, 36, 38B, 38C	
FACM-04	FACM 10+00 (0') TO FACM 10+68.17 (0')				0		0									16, 34	
RAMV-03	RAMV 18+83 (20.0' LT) - RAMV 18+80 (0.3' LT)				0		0										
RAMV-05	RAMV 18+77 (13.84' LT) - RAMV 18+42.62 (36.11' LT)																
TDR01-1	WPXT 14+38.98 (22.06' LT) TO WDXT 19+95.28 (25.68' LT)									150	1090					1, 4, 7, 8	
TDR01-2	WPXT 14+98.72 (22.06' LT) TO WPXT 14+38.98 (22.06' LT)									40	280					1, 3, 7, 9	
TDR01-3	WPXT 15+08.38 (22.06' LT) TO WPXT 14+59.72 (22.06' LT)									120	860					1, 3, 7, 8	
TDR01-4	WDXT 18+42.44 (29.08' LT) TO WDXT 19+09.85 (29.08' LT)									70	520					1, 3, 7, 8	
TDR01-5	WDXT 19+09.85 (29.08' LT) TO WDXT 19+42.44 (29.08' LT)									60	400					1, 3, 7, 8	
TDR01-6	WDXT 19+42.44 (29.08' LT) TO WDXT 19+95.28 (25.68' LT)									120	900					1, 3, 7, 9	
TDR01-7	WDXT 19+95.28 (25.68' LT) TO WDXT 20+02.04 (28.31' LT)									80	680	1				1, 4, 7, 8, 26	
SHEET TOTAL		0	0	0	0	0	0	650	4710	721	1						
PROJECT TOTAL		2	0	0	0	0	0	6600	40430	786	2	12	3	4			
DESIGNED BY	R. NAIDU	09/23/13						10	WASH							Contract 8625 Change Order 81 Page 33 of 72	
ENTERED BY	R. NAIDU	12/06/13														NT 24	
CHECKED BY	J.COOP	02/12/14														SHEET 231 OF 1787 SHEETS	
PROJ. ENGR.	D. EDWARDS																
REGION ADM.	J. MEREDITH	12/01/15	CO#81 - DELETE FACILITY M	JV												STRUCTURE NOTES - DRAINAGE	
DATE	DATE				REVISION	BY											



STRUCTURE NOTES - DRAINAGE

												GENERAL NOTES:	
CODE	LOCATION & UNIT OF MEASURE	COS ADJUST MAINTENANCE HOLE OR CATCH BASIN EACH	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE		CONSTRUCTION GEOTEXTILE FOR PERMANENT EROSION CONTROL		COS SFTY TRCH EXCAV MIN BID=\$0.80 S.F.	COS RELOCATE INLET EACH	COS BEDDING, CL D, & IN PIPE L.F.	COS TELEVISION INSPECTION L.F.	SEE GENERAL NOTES		
			S.Y.	S.Y.									
DR02-41	WPXV 17+09.70 (58.40' LT) - WPXV 17+35.52 (57.95' LT)			60									
DD01-01	WDXV 11+63.04 (31.11' LT) - WDXV 13+10.16 (29.59' LT)		63									1,16,18,34,36	
DD01-02	WDXV 13+13.27 (37.14' LT) - WDXV 14+42.00 (32.06' LT)		57									1,16,18,34,36	
DD01-03	MLV 557+17.87 (27.16' LT) - MLV 11+42.05 (16.53' LT)		172									1,16,17,34,38,36	
DD01-04	EDXV 12+86.24 (15.80' RT) - EDXV 14+89.04 (16.89' RT)		87										
DD02-01	WPXV 15+24.20 (36.74' LT) WPXV 17+04.64 (56.23' LT)		288									1,16,19,21, 32,34,36	
DD02-02	WDXV 14+47.20 (33.72' LT) - WDXV 16+91.41 (32.08' LT)		212									1,16,20,21, 31,34,36	
DD02-02a	WDXV 16+90.60 (50.23' LT) - WDXV 20+27.09 (37.14' LT)		191									1, 16, 18, 21, 34, 36	
DD02-03	WDXV 20+30.62 (31.19' LT) - WDXV 21+44.83 (40.71' LT)		48									1, 16, 18, 34, 36	
DD02-04	WDXV 14+65.82 (0.75' RT) - MLHV 12+65.00 (10.18' LT)		165									1, 16, 20, 21, 34, 36	
DD02-05	MLHV 13+36.42 (14.68' LT) - MLHV 16+13.74 (25.61' LT)		118									1, 16, 17, 34, 36	
DD02-06	MLHV 16+15.99 (22.08' LT) - MLHV 17+35.85 (25.37' LT)		53									1, 16, 17, 34, 36	
DD02-07	MLHV 11+68.21 (6.67' RT) - MLV 562+51.04 (14.24' LT)		50									1, 16, 20, 34, 36	
DD02-08	MLV 562+19.79 (19.15' LT) - MLV 564+13.89 (21.53' LT)		85									1, 16, 17, 34, 36	
GW02-03	RAMV 14+08.76 (0.15' LT) - RAMV 16+26.55 (2.94' LT)											1, 7, 10, 16, 33, 36, 38B	
GW02-10	RAMV 18+37.14 (0.15' LT) TO RAMV 16+59.00 (29.04' LT)											1, 16, 36, 38B	
GW03-04	FACM 10+00 (0) TO FACM 10+68.17 (0)											16, 34	
GW03-05	RAMV 10+83 (30.0' LT) - RAMV 18+80 (0.0' LT)												
GW03-09	RAMV 10+77 (45.04' LT) - RAMV 15+42.62 (36.4' RT)												
TDR01-1	WPXT 14+38.96 (22.08' LT) TO WDXT 19+95.28 (25.66' LT)											1, 4, 7, 8	
TDR01-2	WPXT 14+59.72 (22.08' LT) TO WPXT 14+38.96 (22.08' LT)											1, 3, 7, 9	
TDR01-3	WPXT 15+08.36 (22.08' LT) TO WPXT 14+58.72 (22.08' LT)											1, 3, 7, 8	
TDR01-4	WDXT 18+42.44 (29.08' LT) TO WDXT 19+09.85 (29.08' LT)											1, 3, 7, 8	
TDR01-5	WDXT 19+09.85 (29.08' LT) TO WDXT 19+42.44 (29.08')											1, 3, 7, 8	
TDR01-6	WDXT 19+42.44 (29.08) TO WDXT 19+95.28 (25.66' LT)											1, 3, 7, 9	
TDR01-7	WDXT 19+95.28 (25.66' LT) TO WDXT 20+02.04 (29.31 RT)											1, 4, 7, 8, 26	
SHEET TOTAL			1589	60									
PROJECT TOTAL		1	1929	60		860	1	187	187				
DESIGNED BY	R. NAIDU	09/23/13				10	WASH						
ENTERED BY	R. NAIDU	12/09/13											
CHECKED BY	J.COOP	02/12/14											
PROJ. ENGR.	D. EDWARDS												
REGION ADM.	J. MEREDITH	12/01/15	CO#81 - DELETE FACILITY M	JV	BY		13A012						
DATE	DATE		REVISION				CONTRACT NO.						

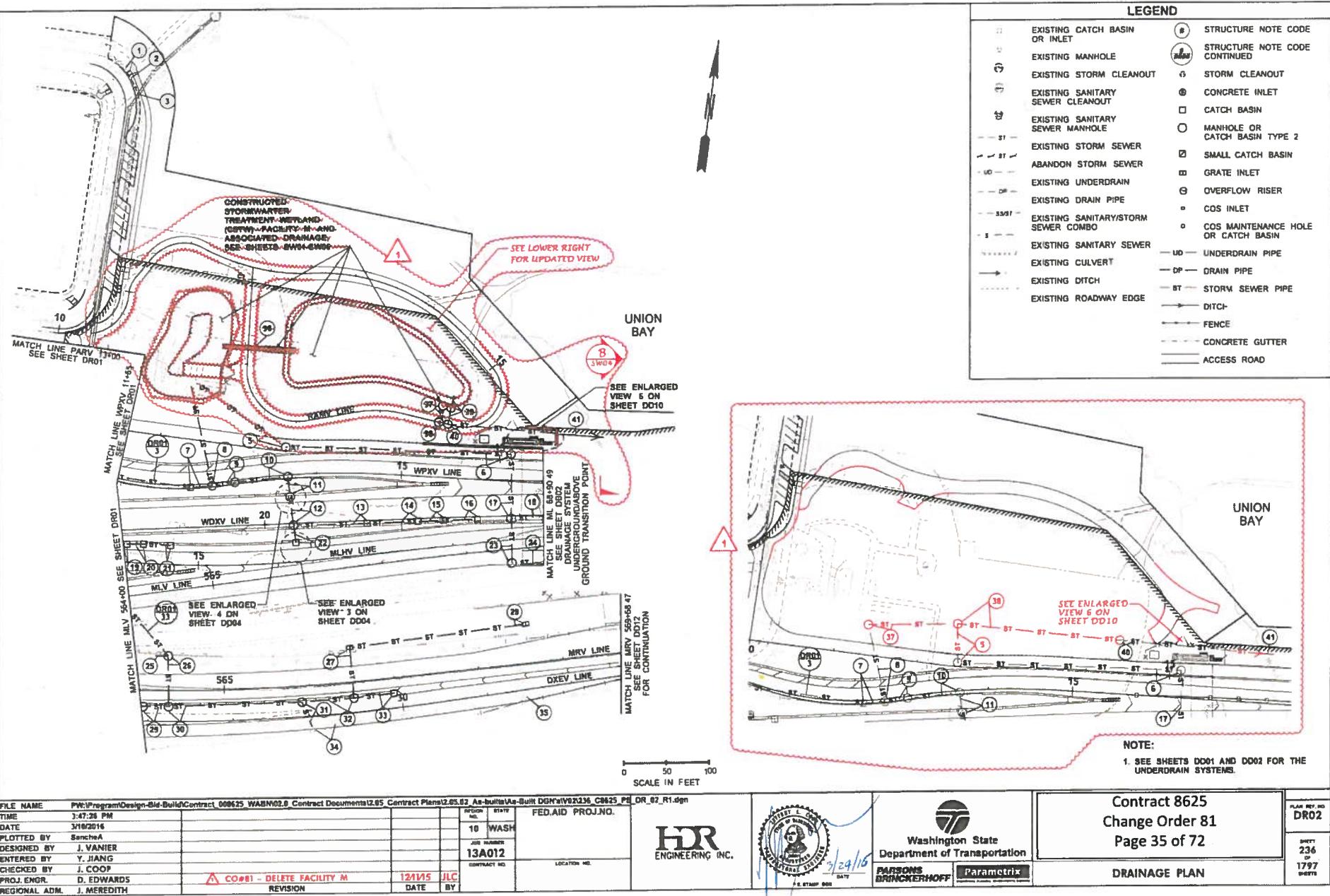


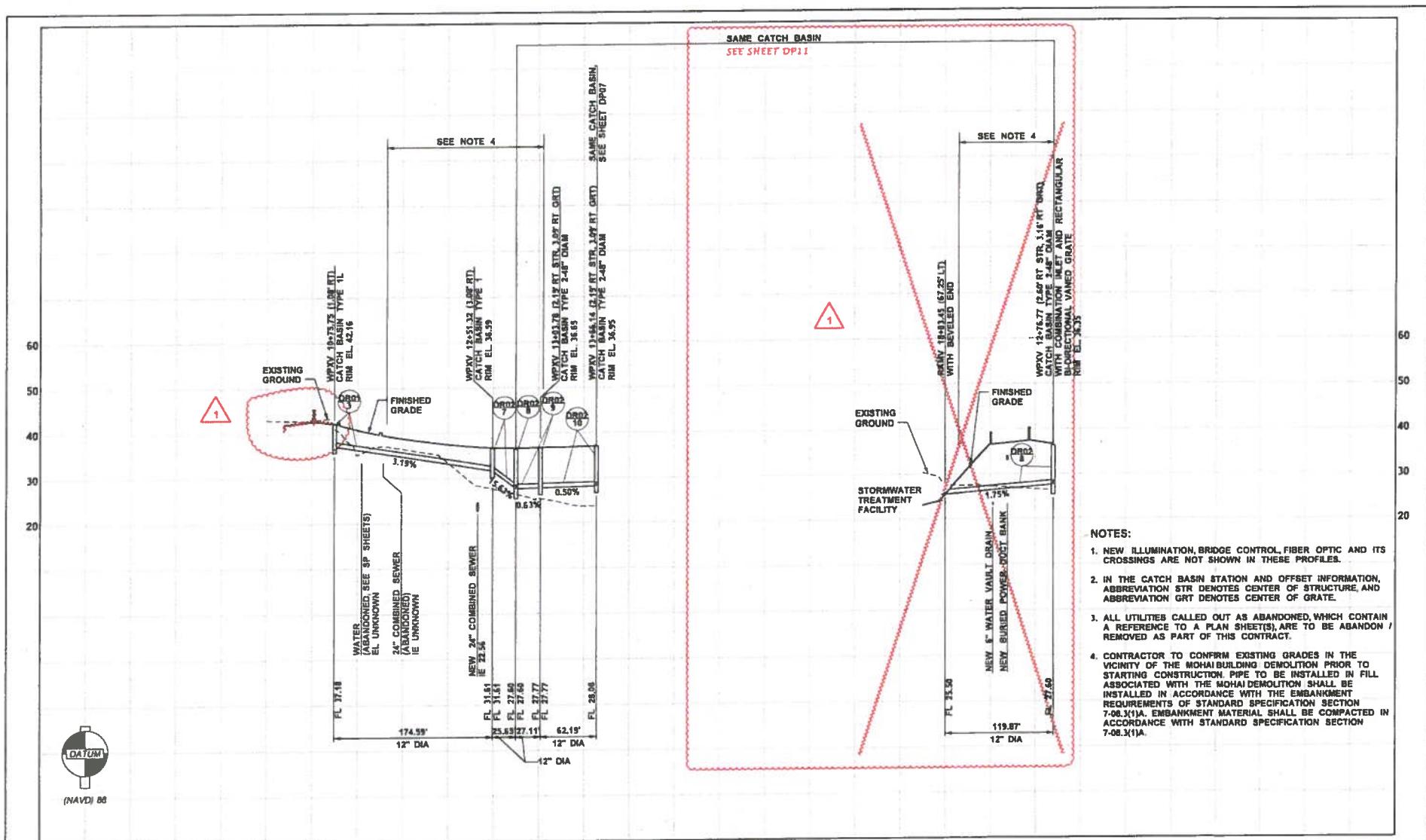
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STRUCTURE NOTES - DRAINAGE

- 41. NO ACCEPTABLE ALTERNATIVES FOR PIPE MATERIAL.
- 42. SEE COS CLEANOUT DETAIL ON SHEET DD14. CLEANOUT FRAME AND COVER, CONCRETE PAD, 12" DIA DIP, FIBER JOINT PACKING, AND MINERAL AGGREGATE PER COS STANDARD PLAN 280. SEE SPECIAL PROVISION "COS CLEANOUTS".
- 43. SEE TYPE 204B MAINTENANCE HOLE - COS STANDARD PLAN 204b. SEE SPECIAL PROVISION "COS MAINTENANCE HOLES, CATCH BASINS AND INLETS".
- 44. SEE TYPE 240 CATCH BASIN - COS STANDARD PLAN 240. SEE SPECIAL PROVISION "COS MAINTENANCE HOLES, CATCH BASINS AND INLETS".
- 45. SEE TYPE 242 CATCH BASIN - COS STANDARD PLAN 242. SEE SPECIAL PROVISION "COS MAINTENANCE HOLES, CATCH BASINS AND INLETS".
- 46. SEE TYPE 250 INLET - COS STANDARD PLAN 250. SEE SPECIAL PROVISION "COS MAINTENANCE HOLES, CATCH BASINS AND INLETS".
- 47. RELOCATE EXISTING NEARBY INLET (FVX 11+85.62, 15.49' LT).
- 48. PRESERVE EXISTING DRIVEWAY RAMPS IN ACCORDANCE WITH PV SHEETS.
- 49. SEE SHEET SW05 FOR DEBRIS CAGE DETAIL.
- * FOR ADDITIONAL PREFABRICATED DRAINAGE MAT QUANTITIES, SEE WR SHEETS AND SUMMARY OF QUANTITIES FOR RETAINING WALLS.
- ** FOR ADDITIONAL ADJUST MANHOLE QUANTITIES, SEE STRUCTURE NOTES - UTILITIES.
- *** FOR ADDITIONAL STRUCTURE EXCAVATION CLASS B INCL. HAUL AND SHORING OR EXTRA EXCAVATION CLASS B QUANTITIES, SEE QTDSP SHEETS.





FILE NAME PW\Program\Design-Bid-Build\Contract_000625_WABRN02.0 Contract Documents\2.05_Contract Plans\2.05.02_As-built\As-Built DGN\vw021342 CR675.PDF DP_06_R1.dgn

TIME	5:28:51 PM	REVISION	10	DATE	10/10/2016
DATE		PROJ. NO.	WASH	JOHN NUMBER	
PLOTTED BY	SancheA	FED/ADL PROJ.NO.		CONTRACT NO.	13A012
DESIGNED BY	J. VANIER	LOCATION NO.		DATE	12/1/15
ENTERED BY	J. BEAN			BY	
CHECKED BY	J. COOP				
PROL. ENGR.	D. EDWARDS				
REGIONAL ADM.	J. MEREDITH				

CO#81 - DELETE FACILITY M



PARSONS
BRINCKERHOFF

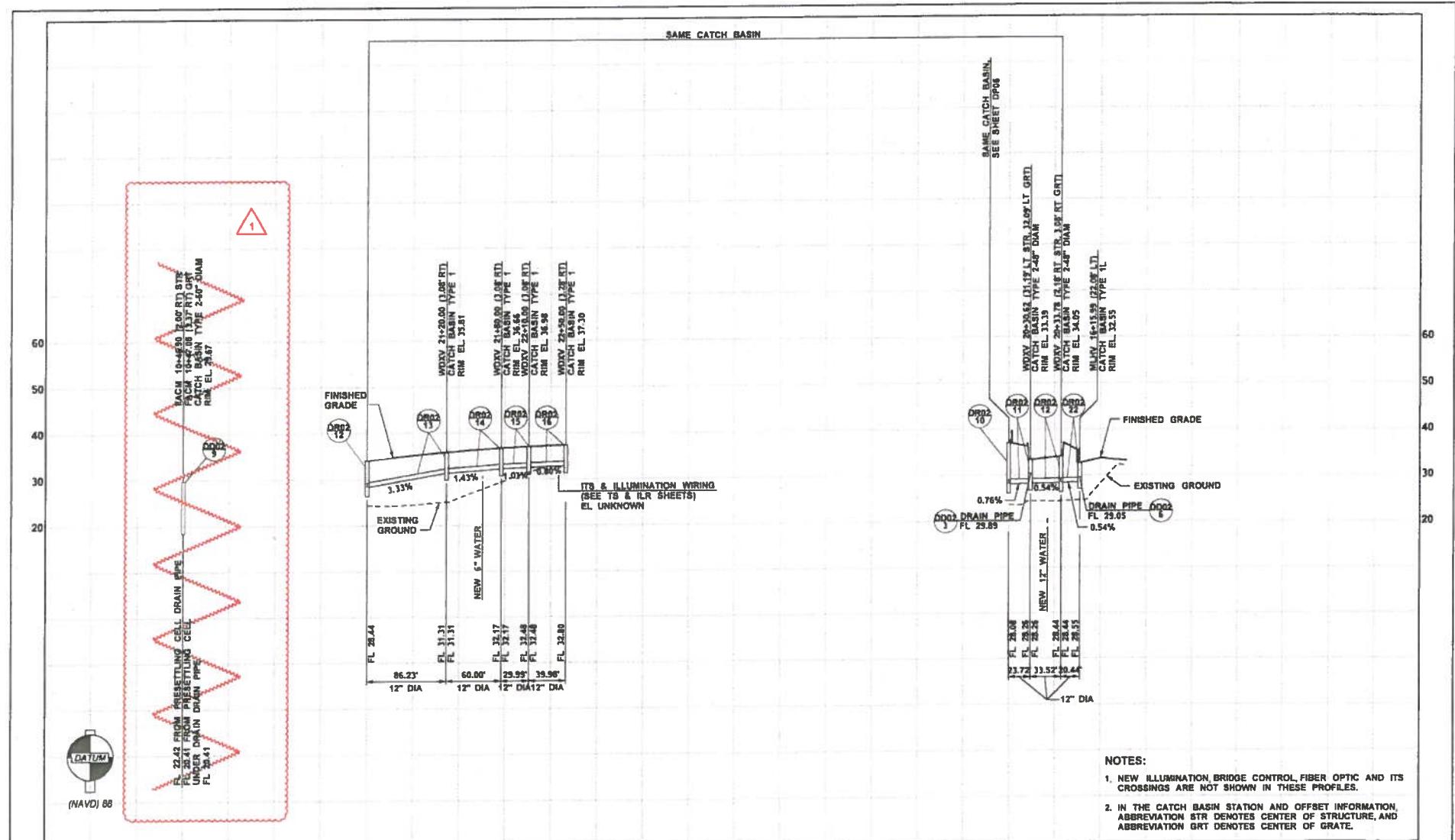
Parametric

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PLAN REF. NO.
DP06

SPREAD SHEET
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OF
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DRAINAGE PROFILE



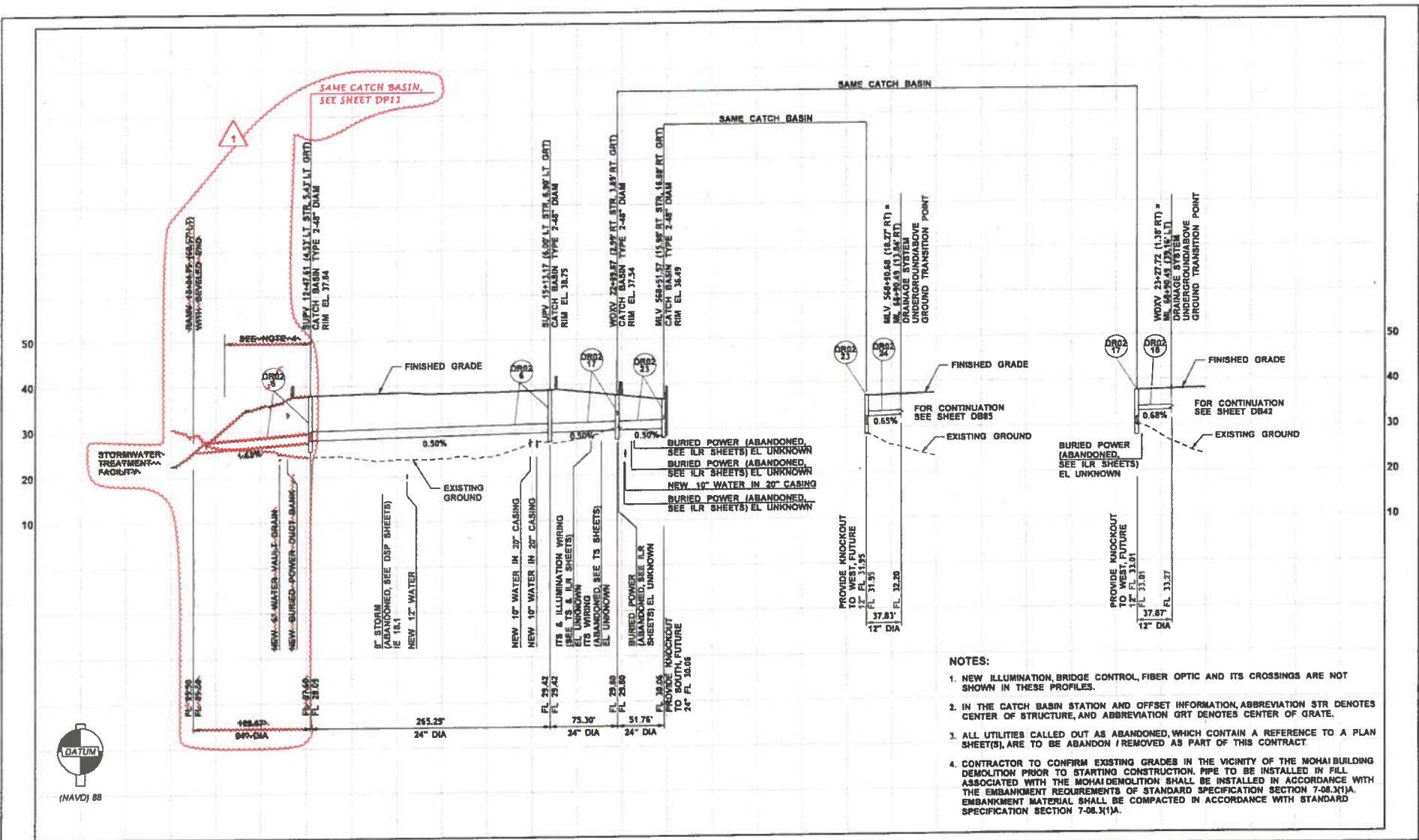
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TIME	5:25:07 PM		PROJ. NO.	STATE	FED/AID PROJ. NO.		CONTRACT NO.				LOCATION ID
DATE	3/10/2016		10	WASH	13A012						
PLOTTED BY	SancheA		JOB NUMBER			CONTRACT NO.					
DESIGNED BY	J. VANIER		CONTRACT NO.			LOCATION ID					
ENTERED BY	Y. JIANG		LOCATION ID								
CHECKED BY	J. COOP		LOCATION ID								
PROJ. ENGR.	D. EDWARDS		LOCATION ID								
REGIONAL ADM.	J. MEREDITH		LOCATION ID								
	CO#81 - DELETE FACILITY M		REVISION	DATE	BY						



Washington State
Department of Transportation
3/24/16
PARSONS
BRINCKERHOFF

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DRAINAGE PROFILE

PLAN REV NO
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DRAWING NO
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SHOTS



- NOTES:**
1. NEW ILLUMINATION, BRIDGE CONTROL, FIBER OPTIC AND ITS CROSSINGS ARE NOT SHOWN IN THESE PROFILES.
 2. IN THE CATCH BASIN STATION AND OFFSET INFORMATION, ABBREVIATION STR DENOTES CENTER OF STRUCTURE, AND ABBREVIATION GRT DENOTES CENTER OF GRATE.
 3. ALL UTILITIES CALLED OUT AS ABANDONED, WHICH CONTAIN A REFERENCE TO A PLAN SHEET(S), ARE TO BE ABANDON / REMOVED AS PART OF THIS CONTRACT.
 4. CONTRACTOR TO CONFIRM EXISTING GRADES IN THE VICINITY OF THE MOHAI BUILDING DEMOLITION PRIOR TO STARTING CONSTRUCTION. PIPE TO BE INSTALLED IN FILL ASSOCIATED WITH THE MOHAI DEMOLITION SHALL BE INSTALLED IN ACCORDANCE WITH THE EMBANKMENT REQUIREMENTS OF STANDARD SPECIFICATION SECTION 7-08.X(1A). EMBANKMENT MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 7-08.X(1A).

FILE NAME	PW\ProgramDesign-Bid-Build\Contract_08625_WAEN02.0_Contract Documents\2.05_Contract Plans\2.05.00_As-Builts\As-Built DGN's\IV02344_C8825 PS_DP_08_R1.dgn	REGION NO.	STATE	FED.AID PROJ.NO.
TIME	5:29:24 PM			
DATE	3/09/2016			
PLOTTED BY	BanheA			
DESIGNED BY	J. VANIER			
ENTERED BY	Y. JIANG			
CHECKED BY	J. COOP			
PROJ. ENGR.	D. EDWARDS			
REGIONAL ADM.	J. MEREDITH			
△ COMBI - DELETE FACILITY M		12/1/15	JLC	REVISION DATE BY



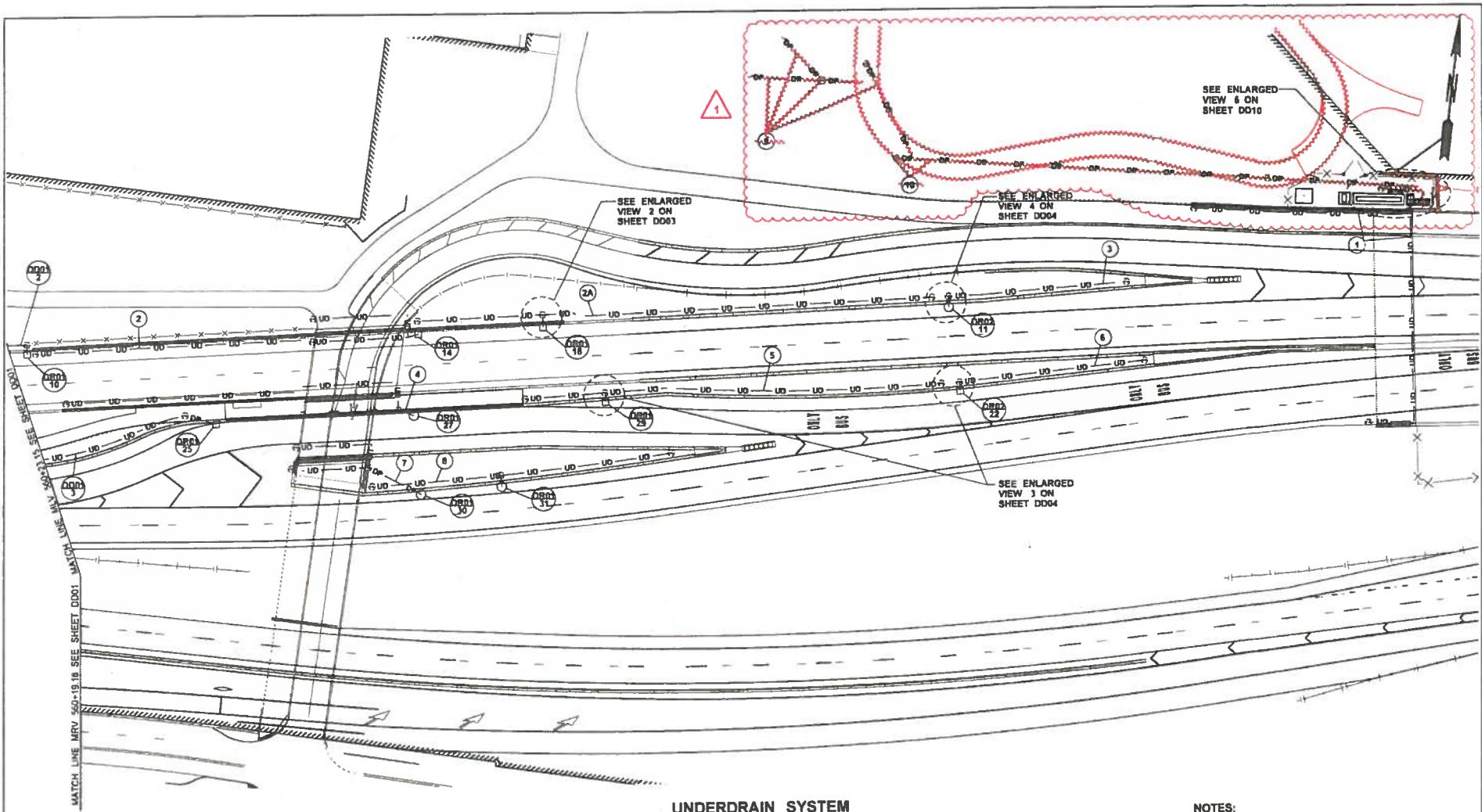
PARSONS
BRINCKERHOFF

Parametric

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PLAN REF. NO.
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DRAINAGE PROFILE



UNDERDRAIN SYSTEM

0 30 60
SCALE IN FEET

NOTES:

- SEE SHEETS DR01 AND DR02 FOR THE CATCH BASIN, CONCRETE INLET AND STORM DRAIN SYSTEMS.
- SEE WR SHEETS FOR WALL TYPES AND RETAINING BARRIER LOCATIONS.

FILE NAME	PW:\Program\Design-Bld-Build\Contract_000625_WABN02.0_Contract Documents\2.05_Contract Plans\2.05.02_As-built\As-built.DGN\WIV21348_C0625_P5 DO_03_R1.dgn		
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DESIGNED BY	J. VANIER		
ENTERED BY	Y. JIANG		
CHECKED BY	J. COOP		
PROJ. ENGR.	D. EDWARDS		
REGIONAL ADM.	J. MEREDITH		

⚠ CO-81 - DELETE FACILITY M

REVISION

124V15

JLC

DATE

BY

REF ID:	10 WASH
STATE:	
FED.AID PROJ.NO.:	
JOB NUMBER:	13A012
CONTRACT NO:	
LOCATION NO:	



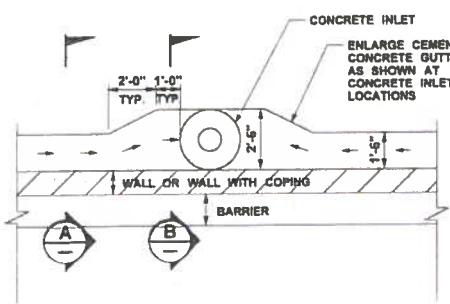
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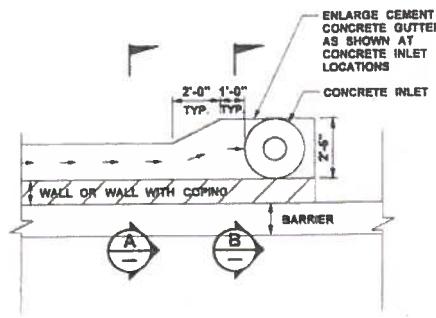
DRAINAGE DETAILS

PLAN INT. NO.
DD02
SHEET
24B
OF
1797
SHEETS



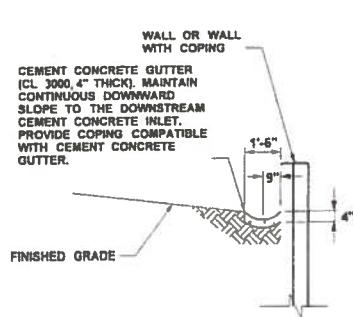
NOTE:
1. WALL FEATURES (SHAPE AND PROPORTION) SHOWN FOR
GENERAL PRESENTATION PURPOSES ONLY. SEE WR SHEETS
FOR ACTUAL SHAPE AND DESIGN INFORMATION.

CASE 1 - BIDIRECTIONAL CEMENT CONCRETE GUTTER FLOW



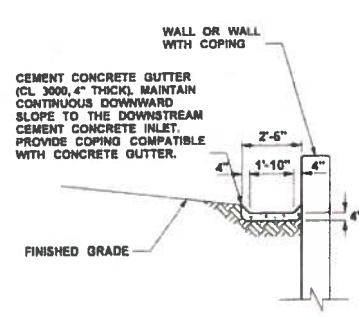
NOTE:
1. WALL FEATURES (SHAPE AND PROPORTION) SHOWN FOR
GENERAL PRESENTATION PURPOSES ONLY. SEE WR SHEETS
FOR ACTUAL SHAPE AND DESIGN INFORMATION.

CASE 2 - UNIDIRECTIONAL CEMENT CONCRETE GUTTER FLOW



NOTE:
1. WALL FEATURES (SHAPE AND PROPORTION) SHOWN FOR
GENERAL PRESENTATION PURPOSES ONLY. SEE WR SHEETS
FOR ACTUAL SHAPE AND DESIGN INFORMATION.

SECTION A



NOTE:
1. WALL FEATURES (SHAPE AND PROPORTION) SHOWN FOR
GENERAL PRESENTATION PURPOSES ONLY. SEE WR SHEETS
FOR ACTUAL SHAPE AND DESIGN INFORMATION.

SECTION B

CEMENT CONCRETE GUTTER

N.T.S.

ENLARGED VIEW

6
DR02

0 5 10
SCALE IN FEET

FILE NAME	PWV\Program\Design-Bid-Build\Contract_000623_WASH92.8 Contract Documents\2.05 Contract Plans\2.05.02 As-Built\As-Built DGN's\1V021256.CB635.PS DD_10_M1.dwg	REVISION NO.	STATE	FED.AID PROJ.NO.
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DESIGNED BY	J. VANIER			
ENTERED BY	Y. JIANG			
CHECKED BY	J. COOP			
PROJ. ENGR.	D. EDWARDS	A COMBI - DELETE FACILITY M	12/1/15 JLC	DATE BY
REGIONAL ADM.	J. MEREDITH	REVISION		



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DRAINAGE DETAILS

PLAN REF. NO.
DD10
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SHEETS

CONCRETE INLET, SMALL CATCH BASIN, AND DRAIN PIPE ELEVATIONS AT KEY LOCATIONS			
STRUCTURE NOTE CODE	DESCRIPTION	STATION AND OFFSET	ELEVATION
DR01-11	CONCRETE INLET	WDXV 15+04.72; OFFSET DEPENDENT ON SUPPLIER PROVIDED WALL DESIGN. LOCATE CONCRETE INLET AGAINST BACK OF WALL / WALL COPING. SEE ENLARGEMENT VIEW 1 ON SHEET DO03.	RIM ELEVATION BASED ON FINISHED GRADE. SEE CN SHEETS; FL 2.5' BELOW RIM
DR01-17	CONCRETE INLET	WDXV 17+02.30; OFFSET DEPENDENT ON SUPPLIER PROVIDED WALL DESIGN. LOCATE CONCRETE INLET AGAINST BACK OF WALL / WALL COPING. SEE ENLARGEMENT VIEW 2 ON SHEET DO03.	RIM ELEVATION BASED ON FINISHED GRADE. SEE CN SHEETS; FL 2.5' BELOW RIM
DR01-24	CONNECT TO EXISTING CABLE VAULT	TRV 13+37.72 (7.54' RT)	FL 39.25 (INSIDE BOTTOM OF EXISTING VAULT)
DR01-24	DRAIN PIPE CONNECTION POINT	TRV 13+86.38 (7.93' RT)	FL 39.46
DR01-22	SMALL CATCH BASIN	TRV 11+66.61 (3.46' RT)	RIM 56.90 FL 55.44
DR01-24	VERTICAL ANGLE POINT	TRV 11+90.33 (7.77' LT)	FL 55.34
DR01-24	VERTICAL ANGLE POINT	TRV 11+83.90 (8.72' LT)	FL 52.79
DR01-24	VERTICAL ANGLE POINT	TRV 11+89.90 (8.72' LT)	FL 39.10
DR01-24	DRAIN PIPE CONNECTION POINT	TRV 14+41.13 (7.85' RT)	FL 38.91
DR01-24	DRAIN PIPE CONNECTION POINT	TRV 15+08.91 (7.85' RT)	FL 38.16
DR01-23	SMALL CATCH BASIN	TRV 15+12.69 (8.89' LT)	RIM 41.84 FL 40.38
DR01-24	VERTICAL ANGLE POINT	TRV 15+12.69 (8.89' RT)	FL 39.92
DR01-24	DRAIN PIPE CONNECTION POINT	TRV 15+12.69 (7.85' RT)	FL 38.04
DR01-24	DRAIN PIPE CONNECTION POINT	TRV 15+36.70 (7.85' RT)	FL 37.29
DR01-24	CLEANOUT	TRV 17+66.40 (0.92' LT)	FL 28.25 (SW), FL 24.92 (BE)
DD02-1	CONNECTION TO VAULT SUMP	WPXV 16+62.38 (8.58' LT) RAMV 16+58.70 (8.58' LT)	FL 21.00 (OUTSIDE BOTTOM OF VAULT)
DD02-1	VAULT DRAIN VERTICAL BEND	WPXV 16+62.38 (8.58' LT) RAMV 16+58.70 (8.58' LT)	20.49
DD02-1	CLEANOUT (VAULT AND WALL DRAIN CONNECTION)	WPXV 16+62.53 (3.00' LT) RAMV 16+58.50 (3.00' LT)	20.08
DD02-1	ANGLE POINT	WPXV 16+78.00 (4.40' LT) RAMV 16+74.00 (4.40' LT)	19.97
DD02-1	ANGLE POINT	WPXV 16+76.81 (4.57' LT) RAMV 16+74.07 (4.57' LT)	19.93
DD02-1	ANGLE POINT CONNECTION TO DD02-10	WPXV 16+76.60 (56.99' LT) RAMV 16+58.53 (24.84' LT)	19.82
DD02-1	PRESETTLING CELL OUTLET	FACM 16+46.90 (2.00' LT) STR	FL 22.00
DD02-1	CB-TYPE 3, 60% GIA	FACM 16+47.00 (2.00' LT) GIA	FL 20.94, BEG-BEG
DD02-1	CONNECTION TO PRESETTLING CELL UNDERDRAIN	FACM 16+47.00 (2.00' LT)	FL 22.00
DD02-1	CONNECTION TO MAIN DR LINE	RAMV 16+45.85 (2.00' LT)	FL 22.04
DD02-1	CONNECTION TO DD02-10	RAMV 16+49.55 (2.04' LT)	FL 20.16
DD02-1	CLEANOUT	RAMV 16+49.55 (2.04' LT)	FL 19.73
DD02-1	DISCHARGE POINT	WPXV 17+04.68 (56.23' LT) RAMV 16+49.55 (2.04' LT)	FL 19.52

STRUCTURE ADJUSTMENTS				
STRUCTURE NOTE CODE	STRUCTURE TYPE	EXISTING RIM ELEVATION (FT)	NEW RIM ELEVATION (FT)	ELEVATION CHANGE (FT)
DR01-20	CB	63.62	63.62	0
DR01-38	SDMH	41.64	40.58	-1.06
DR01-39	SDMH	36.36	35.63	-0.73
DR01-41	CB	30.62	30.76	0.14
DR01-51	CLEANOUT	59.14	58.54	-0.60
DR01-54	CLEANOUT	50.65	50.65	0
DR01-61	CB	56.24	56.24	0
DR02-34	SDMH	29.23	29.73	0.50
DR02-35	SDMH	25.03	26.05	1.02

NOTE:
NEW RIM ELEVATIONS ARE APPROXIMATE AND SHALL BE ADJUSTED TO MATCH FINISHED GRADE.

STRUCTURE NOTE CODE	LOCATION	STRUCTURE NOTE CODE	LOCATION
DR01-24	TRV 10+73.82 (2.05' LT)	DD02-2	WDXV 16+25.14 (44.91' LT)
DR01-24	TRV 10+76.80 (2.41' LT)	DD02-2A	WDXV 16+90.60 (50.23' LT)
DR01-24	TRV 11+50.10 (2.21' LT)	DD02-2A	WDXV 17+71.07 (41.88' LT)
DR01-24	TRV 11+75.65 (2.07' LT)	DD02-2A	WDXV 20+27.09 (37.14' LT)
DR01-24	TRV 13+50.04 (4.76' LT)	DD02-3	WDXV 21+44.68 (49.71' LT)
DR01-24	TRV 13+86.18 (2.71' LT)	DD02-4	WDXV 14+65.82 (8.75' LT)
DR01-24	TRV 14+88.77 (20.51' LT)	DD02-4	MLHV 11+94.31 (14.08' LT)
DR01-24	TRV 15+08.91 (11.35' LT)	DD02-4	MLHV 12+55.36 (14.08' LT)
DR01-24	TRV 15+34.00 (6.50' LT)	DD02-5	MLHV 13+36.42 (14.88' LT)
DR01-24	TRV 17+66.40 (0.92' LT)	DD02-5	MLHV 13+86.22 (20.35' LT)
DD01-1	WDXV 11+63.04 (31.11' LT)	DD02-5	MLHV 16+13.74 (25.61' LT)
DD01-1	WDXV 13+10.16 (37.14' LT)	DD02-6	MLHV 16+16.80 (25.64' LT)
DD01-2	WDXV 13+13.27 (37.14' LT)	DD02-6	MLHV 17+35.65 (25.37' LT)
DD01-2	WDXV 14+42.00 (37.14' LT)	DD02-7	MLHV 11+89.21 (6.67' RT)
DD01-3	MLV 557+37.33 (27.16' LT)	DD02-7	MLHV 11+85.33 (20.37' RT)
DD01-3	MLV 11+31.15 (22.63' LT)	DD02-7	MLHV 12+34.53 (21.67' RT)
DD01-4	EDXV 12+96.39 (16.00' LT)	DD02-8	MLV 562+19.59 (18.15' LT)
DD01-4	EDXV 14+89.04 (16.85' LT)	DD02-8	MLV 563+03.10 (19.50' LT)
DD02-1	MLV 565+58.40 (11.91' RT)	DD02-8	MLV 564+13.89 (21.53' LT)
DD02-1	WPXV 15+22.91 (31.69' LT)	DD03-5	RAMV 16+98.76 (8.42' LT)
DD02-1	SUPV 15+89.03 (16.00' LT) RAMV 16+97.99 (16.00' LT)	DD03-5	RAMV 16+98.76 (8.42' LT)
DD02-1	SUPV 15+30.39 (28.30' LT) RAMV 15+53.70 (24.64' LT)	DD03-10	RAMV 16+37.41 (7.45' LT)
DD02-2	WDXV 14+47.29 (30.58' LT)	DD03-10	RAMV 16+39.63 (2.22' LT)
DD02-2	WDXV 16+24.12 (30.42' LT)	DD03-10	RAMV 16+39.63 (2.22' LT)

NOTE:
THE SUPPLIER PROVIDED DESIGNS FOR THE BLOCK AND EARTH RETAINING WALLS, ALONG WITH THE ASSOCIATED UNDERDRAIN SYSTEM, MAY PROMPT MODIFICATION TO THE CLEANOUT LOCATIONS. ENGINEER APPROVAL IS NECESSARY FOR ALL CLEANOUT LOCATION MODIFICATIONS.

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DESIGNED BY	J. VANIER
ENTERED BY	J. BEAN
CHECKED BY	J. COOP
PROJ. ENGR.	D. EDWARDS
REGIONAL ADM.	J. MEREDITH
COMBI - DELETE FACILITY M	
REVISION	12/1/15 JLC
DATE	BY

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ENGINEERING INC.



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DRAINAGE DETAILS

PLAT REF ID: DD11
SHTT 25 of 1797
SHEET

PRE-SETTLING CELL				
CURVE	CENTER POINT		RADIUS	LENGTH
	N	E		
A	566,760.0222	1,606,739.9265	6'	12.30'
B	567,826.0047	1,605,728.9634	24'	10.90'
C	567,842.4124	1,605,738.9634	8'	7.37'
D	567,844.2716	1,605,785.1331	6'	11.16'
E	567,828.4265	1,605,740.5510	36'	32.64'

POINT	N	E
1	566,969.3502	1,606,750.5533
2	566,974.3726	1,606,751.3729
3	566,974.0341	1,606,740.6744
4	566,982.7254	1,606,734.5322
5	567,015.4717	1,606,750.5287
6	567,028.0044	1,606,752.9634
7	567,040.4124	1,606,752.9634
8	567,046.0643	1,606,738.5434
9	567,049.9235	1,606,767.7790
10	567,044.5892	1,606,755.3225
11	567,030.3325	1,606,776.5466
12	567,001.2924	1,606,764.5496

WETLAND BERM		
POINT	N	E
24	567,094.1597	1,606,959.6779
25	567,066.5118	1,607,023.7244
26	567,052.7363	1,607,045.5038
27	567,011.8893	1,607,092.3051
28	566,966.5514	1,607,067.2158
29	567,100.1469	1,606,963.0127
30	567,072.9802	1,607,026.2964
31	567,058.1127	1,607,045.5446
32	567,017.1656	1,607,096.9055
33	566,959.9376	1,607,064.5714

CURVE	CENTER	POINT	RADIUS	LENGTH
	N	E		
F	566,995.1002	1,606,896.7238	13°	22.56'
G	567,047.8277	1,606,900.7876	30°	39.12'
H	566,997.4725	1,607,070.1929	11.5°	30.36'
I	566,856.5953	1,606,965.4933		63.28'

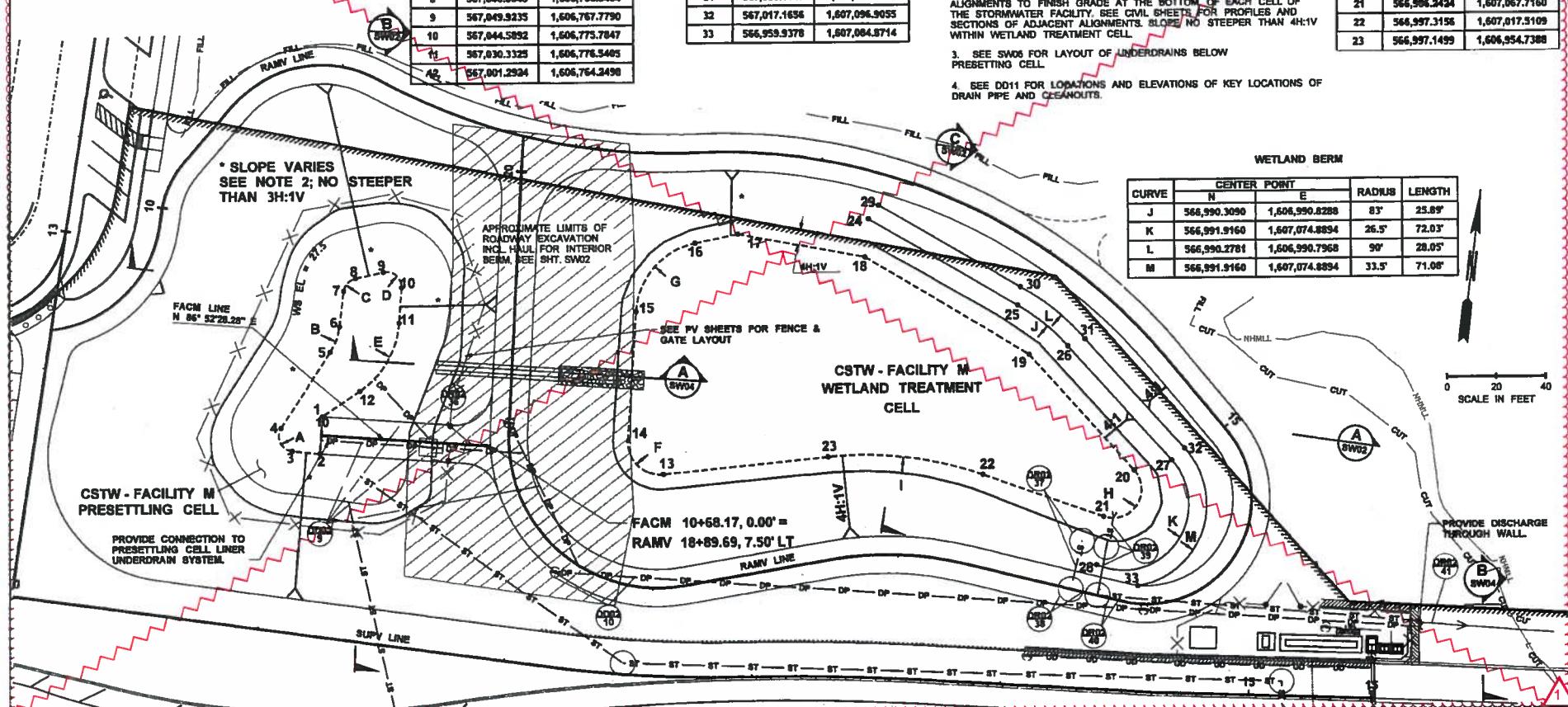
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14	566,894,3703
15	567,046,1431
16	567,076,2753
17	567,081,5777
18	567,078,6778
19	567,047,3605
20	567,006,1311
21	566,996,2424
22	566,997,3136
23	566,997,1493

NOTES:
1. THE FINISH GRADE ELEVATION OF ALL SPECIFIED POINTS ALONG
THE BOTTOM OR WITHIN THE PRESETTLING CELL AND THE WETLAND
TREATMENT CELL IS 22.5.

2. PROVIDE UNIFORM SLOPES FROM EDGE OF ADJACENT ALIGNMENTS TO FINISH GRADE AT THE BOTTOM OF EACH CELL OF THE STORMWATER FACILITY. SEE CIVIL SHEETS FOR PROFILES AND SECTIONS OF ADJACENT ALIGNMENTS. SLOPES NO STEEPER THAN 4H:1V WITHIN WETLAND TREATMENT CELL.

3. SEE SW06 FOR LAYOUT OF UNDERDRAINS BELOW
PRESETTING CELL

4. SEE DD11 FOR LOCATIONS AND ELEVATIONS OF KEY LOCATIONS ON DRAIN PIPE AND CESSANTS.



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DESIGNED BY	J. COOP	
ENTERED BY	D. NGUYEN	
CHECKED BY	J. COOP	
PROJ. ENGR.	D. WARDENS	COMBI - DELETE FACILITY M
REGIONAL ADM.	J. MEREDITH	REVISION

DGN		ADDRESS NO.	STATE	FED.AID PROJ.
		10	WASH	
		JOB NUMBER		
		13A012		
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12/8/15 JLC				
DATE	BY			



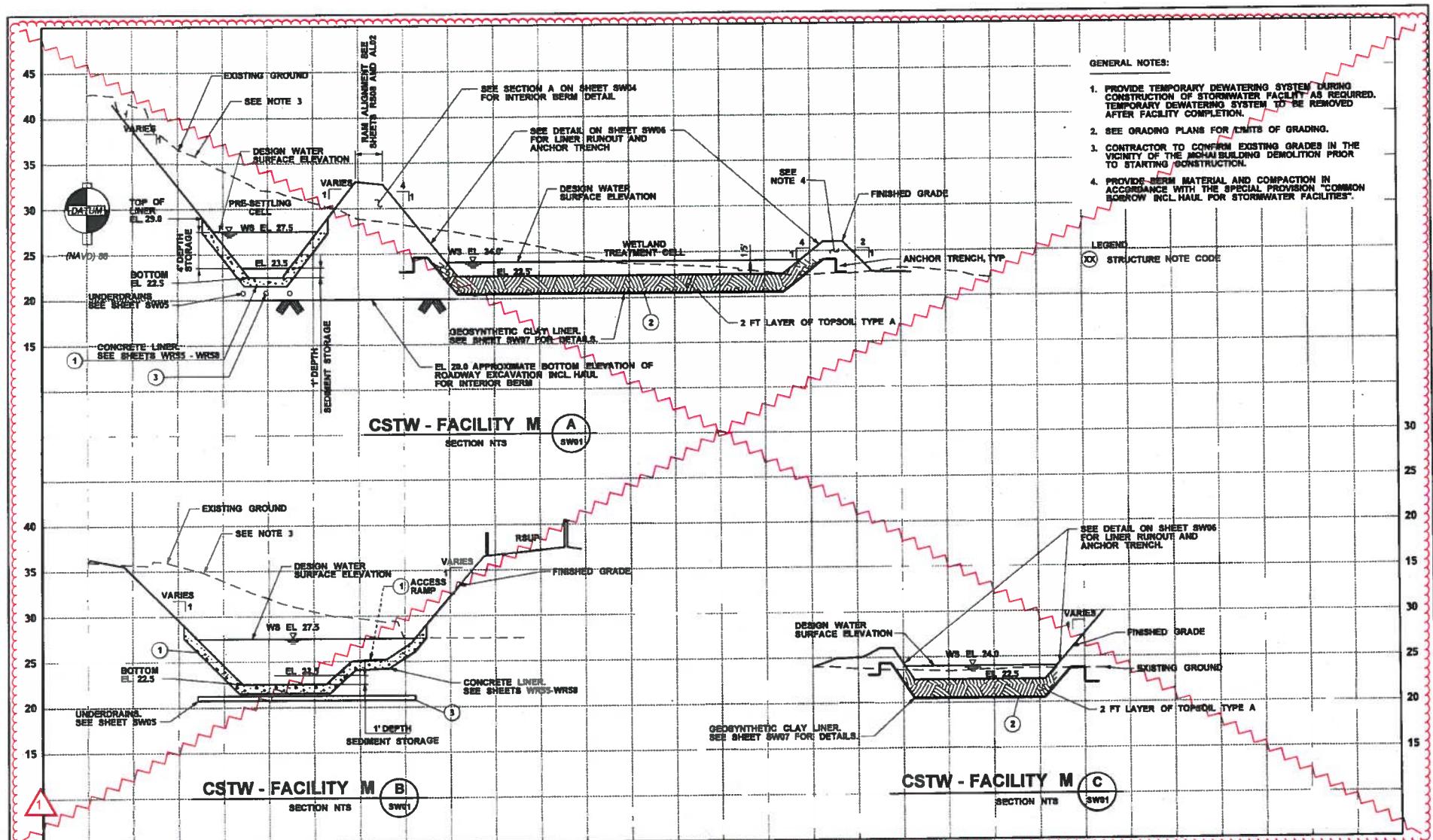
Washington State
Department of Transportation

Washington State
Department of Transportation

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STORMWATER FACILITIES

PLATE NO. SW01
SHEET 261 OF 1797
SHREETS



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ENTERED BY	D. NGUYEN					
CHECKED BY	J. COOP					
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REGIONAL ADM.	J. MEREDITH					

CO861 - DELETE FACILITY M
12/015 - JLC
DATE BY



Washington State
Department of Transportation

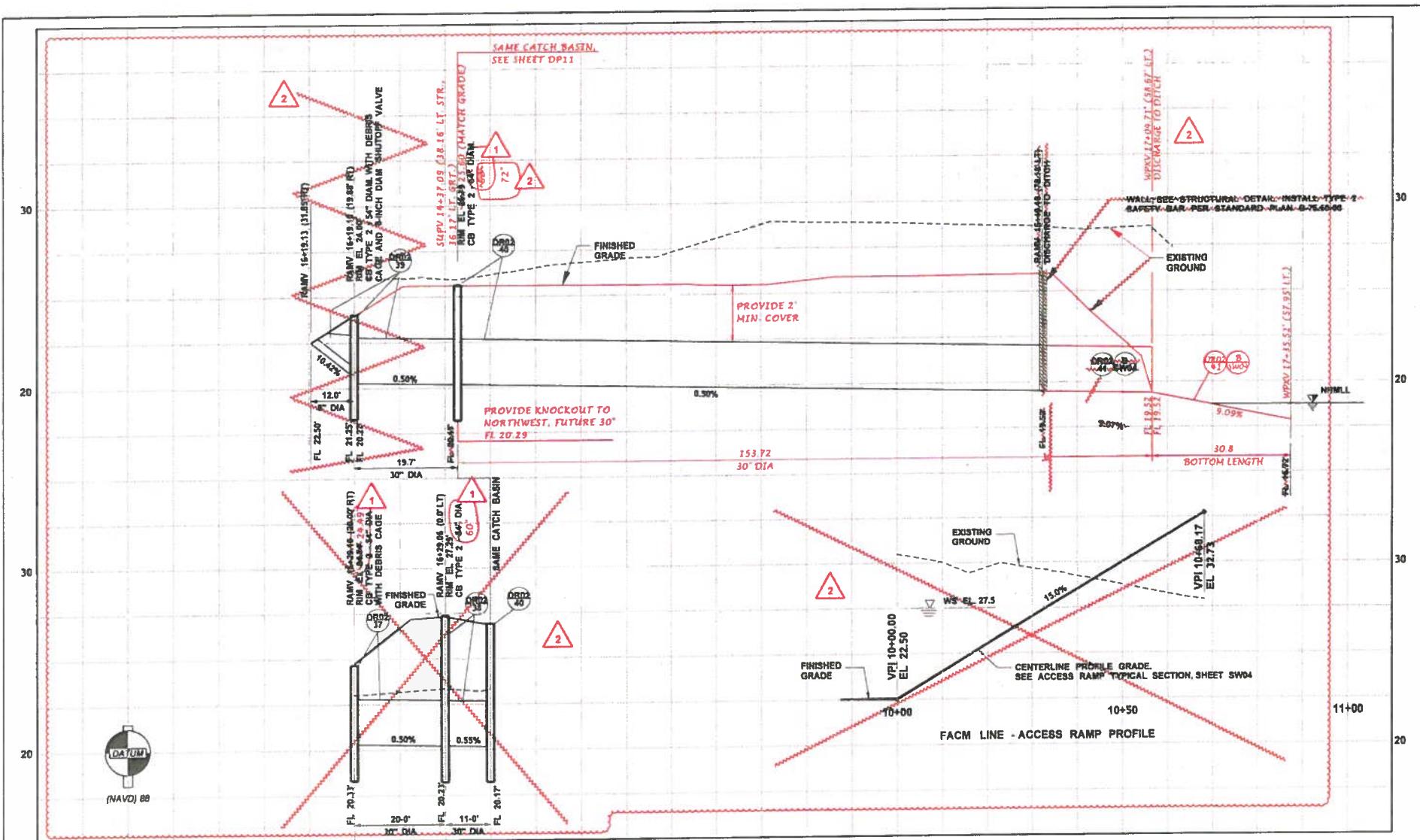
Parsons
Brinckerhoff

Parametric

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STORMWATER FACILITIES

PLAN REV. NO.
SW02
DRAFT
262
OF
1797
SHEETS



FILE NAME	PW:\Program\Design-Bld-BuildContract_808625_WABN02.0_Contract Documents\2.05.02_As-Built\As-Built DGN\sv02363.C8625.PS_SW_03_R1.dgn									
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DESIGNED BY	J. COOP									
ENTERED BY	J. BEAN									
CHECKED BY	J. COOP									
PROJ. ENGR.	D. EDWARDS									
REGIONAL ADM.	J. MEREDITH									
⚠ COP#01 - DELETE FACILITY M		12/15	JLC							
⚠ COP#18 - CATCH BASIN REV		2/17/15	JC							
REVISION		DATE	BY							

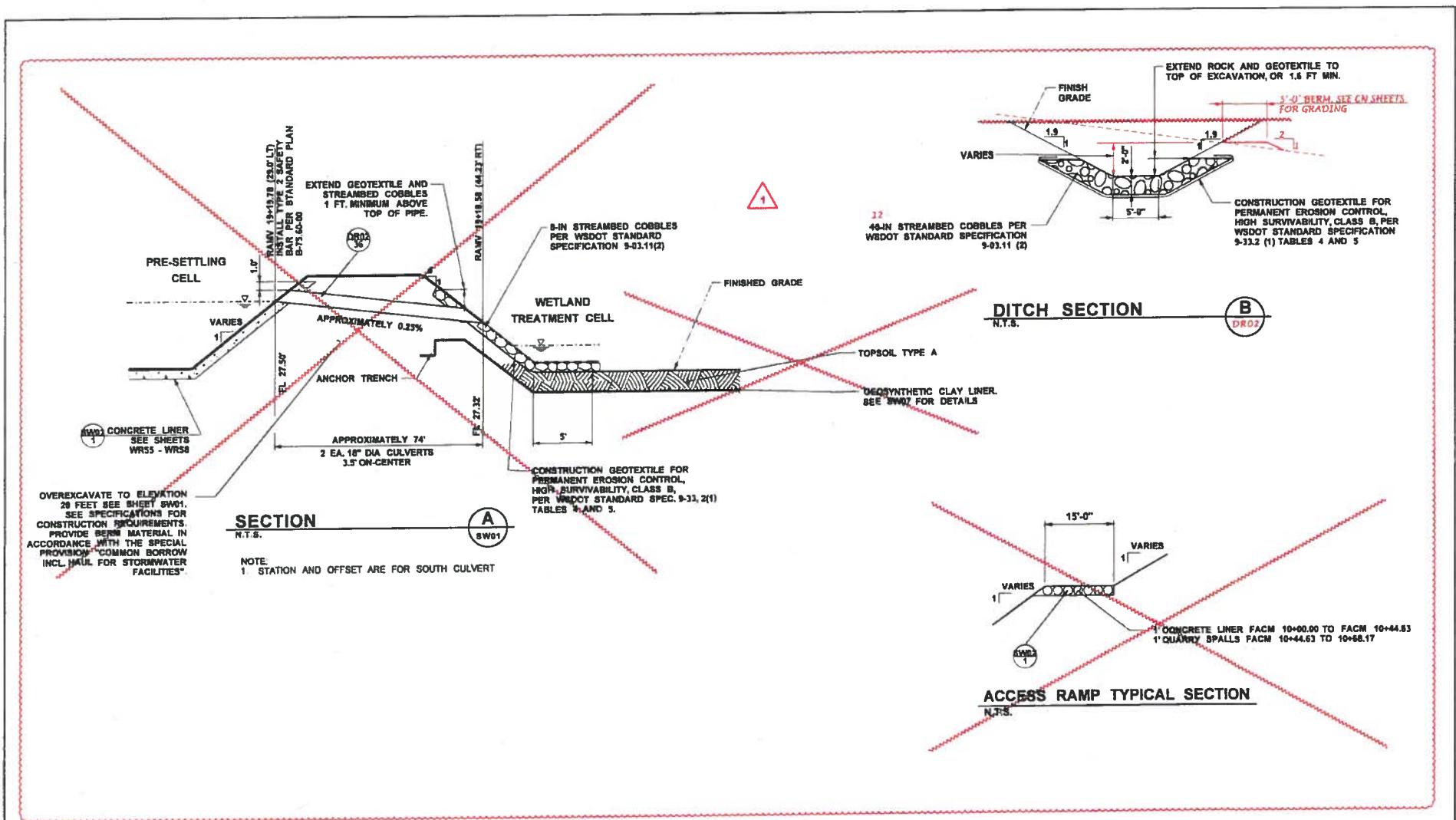


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Department of Transportation

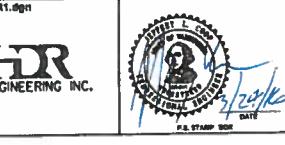
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PLAN REF. NO.
SW03
SHEET
263
1797
SHEETS

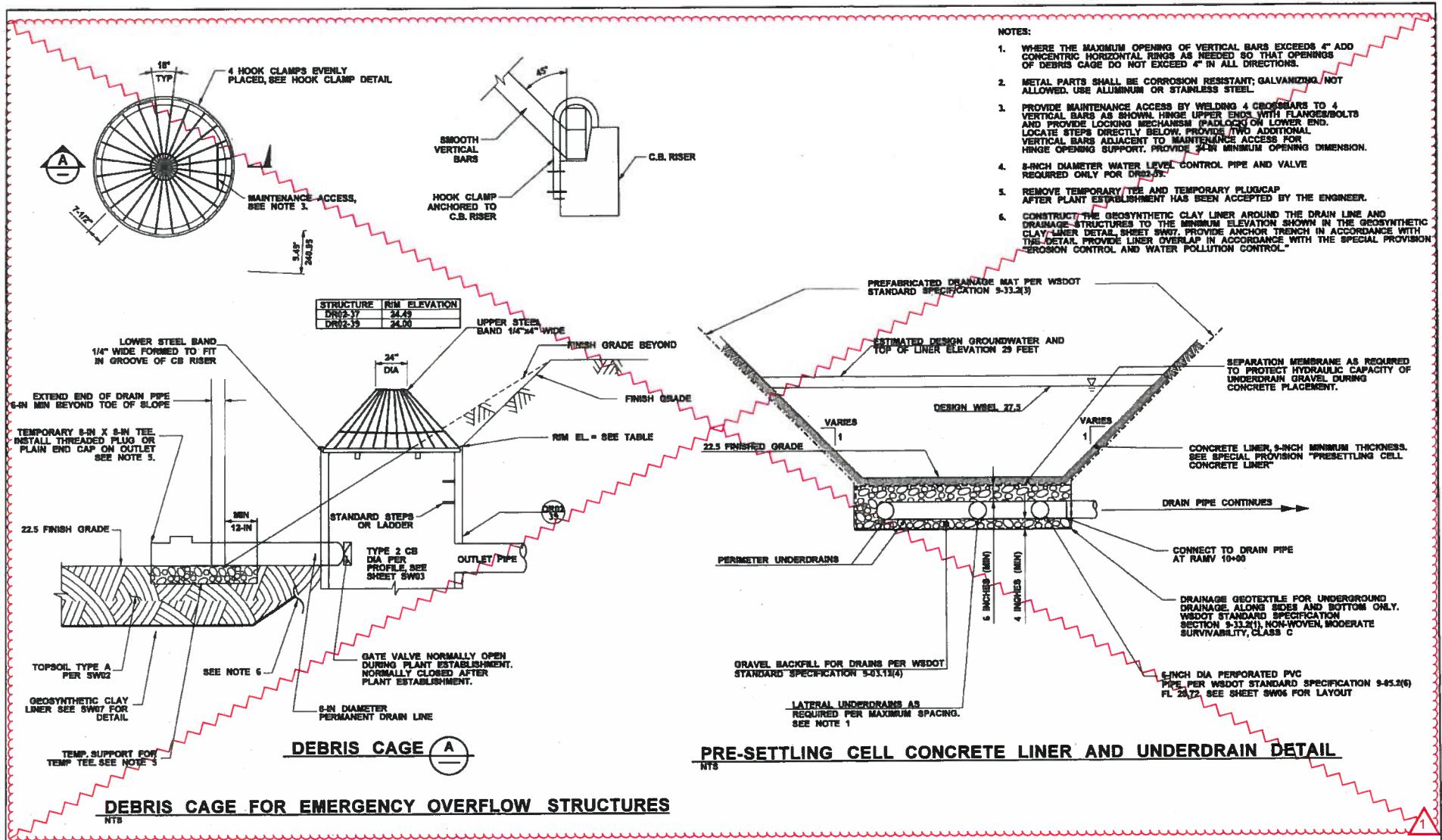
STORMWATER FACILITIES



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DESIGNED BY	J. COOP			LOCATION NO.
ENTERED BY	J. BEAN			
CHECKED BY	J. COOP			
PRINC. ENGR.	D. EDWARDS	△ CO#81 - DELETE FACILITY M	12/15 JLC	
REGIONAL ADM.	J. MEREDITH	REVISION	DATE	BY



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STORMWATER FACILITIES	SPREAD 264 OF 1797 SHEETS



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DESIGNED BY	J. COOP								
ENTERED BY	J. BEAN								
CHECKED BY	J. COOP								
PROJ. ENGR.	D. EDWARDS								
REGIONAL ADM.	J. MEREDITH								

CO881 - DELETE FACILITY M

REVISION

DATE

BY

HDR
ENGINEERING INC.



Washington State
Department of Transportation

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BRINCKERHOFF

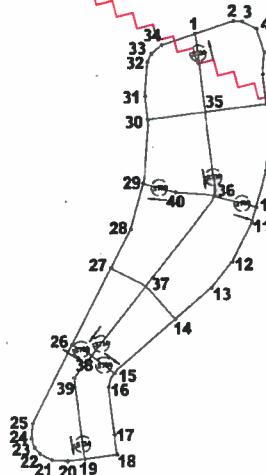
Parametrix

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STORMWATER FACILITIES

PLAN REF. NO.
SW05

SHED
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SHEETS



PRESETTLING CELL UNDERDRAIN LAYOUT

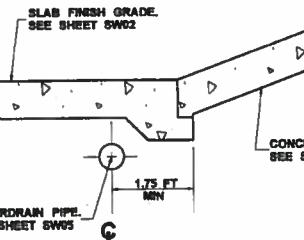
0 10 20
SCALE IN FEET

CLEANOUT DIRECTION

POINT	NORTHING	EASTING	CROSS	TEE	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	CLEANOUT	NOTE
1	567,046,572	1,606,762,776						1	1	1
2	567,048,568	1,606,765,164					1			3
3	567,048,579	1,606,770,645					1			3
4	567,047,366	1,606,773,069				1				3
5	567,043,301	1,606,774,340					1			3
6	567,039,879	1,606,774,076						1		3
7	567,034,916	1,606,774,691		1						1
8	567,030,996	1,606,775,178						1		3
9	567,023,966	1,606,774,657						1		3
10	567,017,780	1,606,772,977		1					1	1
11	567,015,328	1,606,772,301						1		3
12	567,008,659	1,606,765,968						1		3
13	567,004,315	1,606,765,555						1		3
14	566,999,095	1,606,749,479		1						1
15	566,990,085	1,606,749,340		1			1	1	1	1
16	566,967,734	1,606,748,328					1			3
17	566,979,768	1,606,745,316		1						1
18	566,976,528	1,606,745,718			1					2
19	566,975,859	1,606,744,350		1						3
20	566,975,515	1,606,741,576								3
21	566,975,705	1,606,738,991					1			3
22	566,976,722	1,606,736,966				1		1		4
23	566,977,749	1,606,736,978					1	1		4
24	566,979,287	1,606,735,559					1	1		4
25	566,981,812	1,606,735,753					1			3
26	566,994,828	1,606,742,308		1					1	1
27	567,007,660	1,606,748,741		1						1
28	567,014,179	1,606,752,017								3
29	567,021,867	1,606,754,138		1					1	1
30	567,032,462	1,606,754,912							1	1
31	567,036,270	1,606,754,446						1		3
32	567,041,973	1,606,754,856						1		3
33	567,043,241	1,606,755,494						1		3
34	567,044,732	1,606,751,220								3
35	567,033,657	1,606,764,542	1							1
36	567,019,734	1,606,763,934	1			2		1		1
37	567,004,568	1,606,754,535	1			2				1
38	566,997,075	1,606,754,553	1					1		1
39	566,993,345	1,606,742,977				1				3
40	567,020,371	1,606,759,558						1		3

NOTES:

1. THE COORDINATES ARE AT THE INTERSECTION POINT OF THE PIPE CENTERLINE AT THE CROSS OR TEE. NO SEPARATE COORDINATES PROVIDED FOR BEND CONNECTED TO CROSSES OR TEES.
2. THE COORDINATES ARE AT THE PIPE CENTERLINE AT THE ANGLE POINT FOR 90° BENDS. NO SEPARATE COORDINATES PROVIDED FOR BENDS CONNECTED TO 90° BENDS.
3. THE COORDINATES ARE AT THE PIPE CENTERLINE AT THE ANGLE POINT FOR BENDS LOCATED SEPARATELY FROM CROSSES, TEES, OR 90° BENDS.
4. THE COORDINATES ARE AT THE PIPE CENTERLINE AT THE ANGLE POINT FOR THE BEND WITH THE LARGEST ANGLE WHERE MULTIPLE BENDS CONNECT.



PRESETTLING CELL UNDERDRAIN LOCATION

NTS

- NOTES:
1. GENERAL LOCATION SEE TABLE FOR FITTING COORDINATES.

FILE NAME	PWHCADDPtW\westside\CADDP\&2Sheets\SWWWA\HPE2344_WAWN_PB_SW.dwg	REVISION		DESIGNER	DATE	PROJ. NO.	ITEM NO.	STATE	FED-AID PROJ. NO.
TIME	3:16:59 PM				4/4/2014	10	WASH		
PLOTTED BY	dejunes					J3A012			
DESIGNED BY	J. COOP								
ENTERED BY	D. NGUYEN								
CHECKED BY	J. COOP								
PROJ. ENGR.	D. EDWARDS								
REGIONAL ADM.	J. MEREDITH								

HDR
ENGINEERING INC.



Washington State
Department of Transportation

Parsons Brinckerhoff

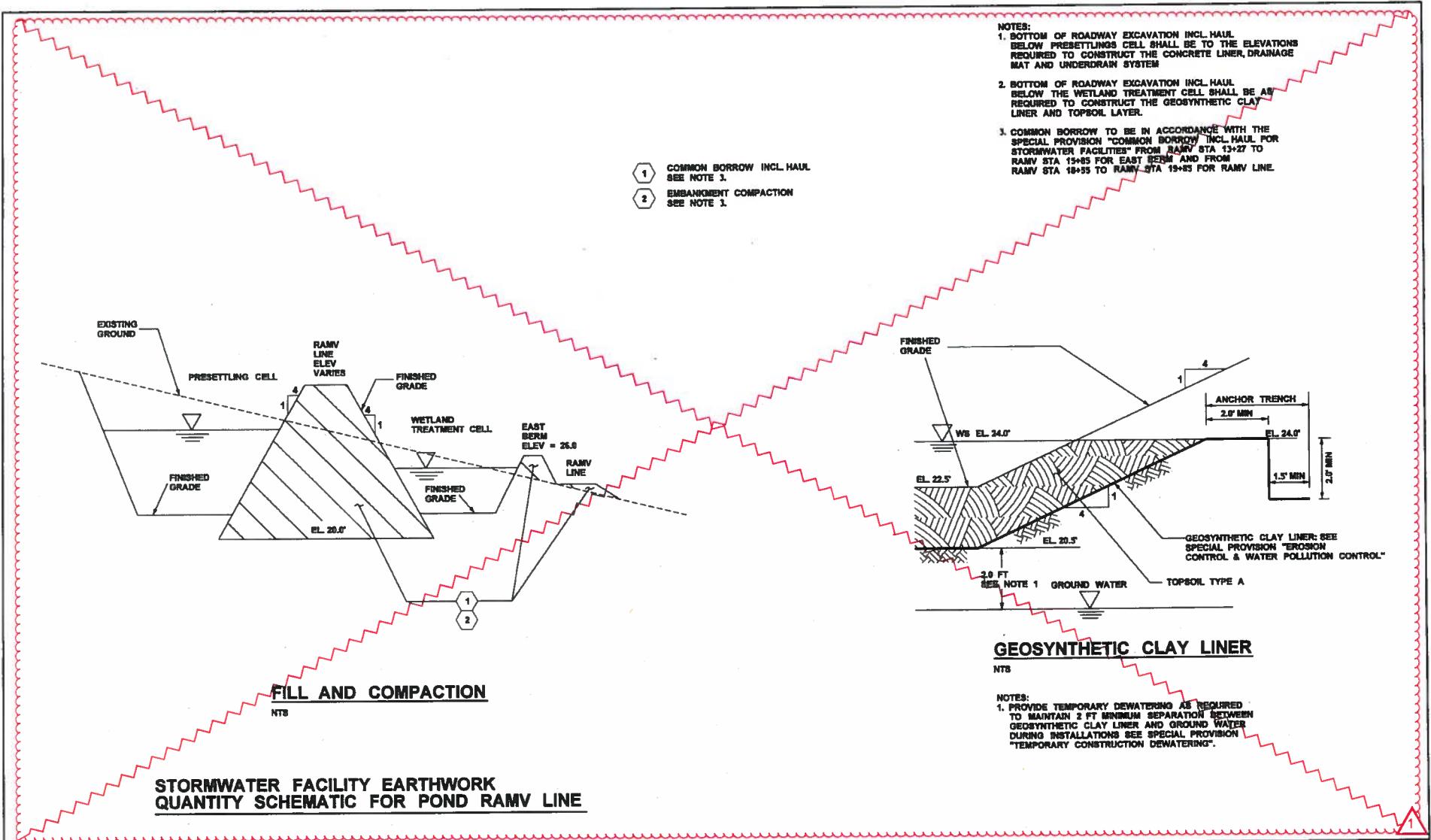
Parametric

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Change Order 81
Page 47 of 72

STORMWATER FACILITIES

PLAN REF ID:
SW06

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266
of
1797
Sheets



FILE NAME	PWHCADProj\WetlandCADDPS\Earthwork\SW\WASH\13A012\13A012.dwg	TIME	3:16:14 PM	PROJECT NO.	STATE	FED. AID PROJ. NO.
DATE	4/4/2014			10	WASH	
PLOTTED BY	dejones			JAN 2012		
DESIGNED BY	J. COOP			CONTRACT NO.		
ENTERED BY	D. NGUYEN			LOCATION NO.		
CHECKED BY	J. COOP					
PROJ. ENGR.	D. EDWARDS					
REGIONAL ADM.	J. MEREDITH					

CO851 - DELETE FACILITY M
REVISION

12/9/15 JLC
DATE BY



Washington State
Department of Transportation

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STORMWATER FACILITIES

PLAN REG. NO.
SW07

SHEET
267
OF
1797
SHEETS

SUMMARY OF BRIDGE DRAINAGE SYSTEM QUANTITIES

ITEM	GROUP 1 UP TO MILEPOST 1.63 / MIL STA 91+0131		GROUP 2 BEYOND MILEPOST 1.63 / MIL STA 91+0131		TOTAL (GROUP 1 + GROUP 2)	
	MEASUREMENT	AMOUNT	MEASUREMENT	AMOUNT	MEASUREMENT	AMOUNT
CLASS 53 DUCTILE IRON STORM SEWER PIPE 8-IN. DIAM.	LF	54	LF	84	LF	138
CLASS 53 DUCTILE IRON STORM SEWER PIPE 10-IN. DIAM.	LF	630	LF	923	LF	1,553
CLASS 53 DUCTILE IRON STORM SEWER PIPE 12-IN. DIAM.	LF	3,292	LF	2,286	LF	5,578
GROOVED END COUPLING 8-IN. DIAM.	EA	59	EA	97	EA	156
GROOVED END COUPLING 10-IN. DIAM.	EA	232	EA	138	EA	370
GROOVED END FLANGE ADAPTER 8-IN. DIAM.	EA	293	EA	211	EA	504
GROOVED END FLANGE ADAPTER 10-IN. DIAM.	EA	6	EA	21	EA	27
GROOVED END FLANGE ADAPTER 12-IN. DIAM.	EA	53	EA	20	EA	73
GROOVED END FLANGE ADAPTER 14-IN. DIAM.	EA	57	EA	13	EA	90
GROOVED END FLANGE ADAPTER 14-IN. DIAM.	EA	8	EA	6	EA	14
BEVELED FLANGE FILLER 8-IN. DIAM.	EA	1	EA	4	EA	5
BEVELED FLANGE FILLER 10-IN. DIAM.	EA	30	EA	9	EA	39
45 DEG. ELBOW 8-IN. DIAM.	EA	28	EA	50	EA	78
45 DEG. LATERAL 8-IN. DIAM.	EA	1	EA	1	EA	2
CAP 8-IN. DIAM.	EA	1	EA	1	EA	2
11-1/2 DEG. ELBOW 8-IN. DIAM.	EA	0	EA	1	EA	1
45 DEG. ELBOW 10-IN. DIAM.	EA	112	EA	37	EA	149
45 DEG. LATERAL 10-IN. DIAM.	EA	8	EA	12	EA	20
CAP 10-IN. DIAM.	EA	4	EA	5	EA	9
22-1/2 DEG. ELBOW 12-IN. DIAM.	EA	2	EA	0	EA	2
45 DEG. ELBOW 12-IN. DIAM.	EA	4	EA	7	EA	11
45 DEG. LATERAL 12-IN. DIAM.	EA	24	EA	18	EA	42
45 DEG. REDUCING LATERAL 10-IN. DIAM. X 8-IN. DIAM.	EA	0	EA	2	EA	2
45 DEG. REDUCING LATERAL 12-IN. DIAM. X 8-IN. DIAM.	EA	9	EA	14	EA	23
45 DEG. REDUCING LATERAL 12-IN. DIAM. X 10-IN. DIAM.	EA	38	EA	8	EA	46
CONCENTRIC REDUCER 12-IN. DIAM. X 10-IN. DIAM.	EA	1	EA	1	EA	2
ECENTRIC REDUCER 14-IN. DIAM. X 10-IN. DIAM.	EA	2	EA	2	EA	4
ECENTRIC REDUCER 14-IN. DIAM. X 12-IN. DIAM.	EA	6	EA	4	EA	10
CAP 12-IN. DIAM.	EA	24	EA	18	EA	42
DOUBLE-BALL FLEXIBLE EXPANSION JOINT 14-IN. DIAM.	EA	2	EA	3	EA	5
SINGLE-BALL FLEXIBLE EXPANSION JOINT 14-IN. DIAM.	EA	4	EA	0	EA	4
FLEXIBLE RESTRAINED JOINT 10-IN. DIAM.	EA	1	EA	0	EA	1
FLEXIBLE RESTRAINED JOINT 12-IN. DIAM.	EA	12	EA	1	EA	13
CLEANOUT	EA	2	EA	7	EA	9
FLAP GATE 8-IN. DIAM.	EA	7	EA	9	EA	16
FLAP GATE 10-IN. DIAM.	EA	0	EA	1	EA	1
NEENAH BRIDGE DRAIN R-3923	EA	34	EA	9	EA	43
NEENAH ADJUSTABLE BRIDGE DRAIN R-3923	EA	9	EA	7	EA	16
RECTANGULAR FRAME AND VANE GRATE	EA	7	EA	10	EA	17
MODULAR MECHANICAL PIPE SEAL	EA	2	EA	0	EA	2
CATCH BASIN	EA	7	EA	10	EA	17
HANGERS, BRACES, AND SUPPORTS	LS	1	LS	1	LS	2

NOTE: THE QUANTITIES LISTED ON THIS SHEET ARE FOR INFORMATIONAL PURPOSES ONLY AND SHALL BE UTILIZED SOLELY AT THE CONTRACTOR'S DISCRETION. PROVIDE ALL QUANTITIES AS REQUIRED FOR A COMPLETE INSTALLATION.

GENERAL NOTES AND QUANTITIES

BRIDGE DRAINAGE SYSTEM GENERAL NOTES:

1. BRIDGE DRAINAGE PIPING SHALL BE DUCTILE IRON CL. 53 WITH CEMENT-MORTAR LINING IN CONFORMANCE WITH SPECIAL PROVISION "STORM SEWERS".
2. PIPE FITTINGS SHALL CONSIST OF THE SAME MATERIAL AS THE PIPE. SEE THE SPECIAL PROVISION "STORM SEWERS" FOR ADDITIONAL INFORMATION.
3. PIPE JOINTS SHALL BE RADIUS CUT FLEXIBLE GROOVED END, UNLESS OTHERWISE NOTED ON THESE PLANS. GAPS AT ALL FLEXIBLE GROOVED END CONNECTIONS SHALL BE SET AS SPECIFIED IN THE DETAIL ON SHEET DB107.
4. ALL FITTINGS SHALL BE RADIUS CUT RIGHT GROOVED END.
5. CONNECTION OF PIPES AND FITTINGS SHALL BE WITH GROOVED END TYPE COUPLINGS, UNLESS OTHERWISE SHOWN ON THESE PLANS (BY CALLOUT OR SYMBOL).
6. WHERE SHOWN ON THE PLANS (BY CALLOUT OR SYMBOL), FLANGE END CONNECTIONS ON FITTINGS SHALL BE GROOVED END WITH FLANGE ADAPTERS.
7. WHERE SHOWN ON THE PLANS (BY CALLOUT OR SYMBOL), FLANGE END CONNECTIONS FOR PIPES SHALL BE SHOP-FABRICATED FLANGED JOINT PIPE, UNLESS OTHERWISE NOTED. SHOP-FABRICATED FLANGES SHALL NOT BE REMOVED OR REASSEMBLED IN THE FIELD.
8. BOLT HOLES ON FLANGES SHALL BE ALIGNED IN CONFORMANCE WITH SPECIAL PROVISION "STORM SEWERS".
9. FLEXIBLE RESTRAINED JOINTS SHALL BE PUSH-ON OR MECHANICAL, AND SHALL INCLUDE A FACTORY-APPLIED WELDED-ON DUCTILE IRON RETAINER RING ON THE PIPE SPIGOT. ALL WELDING SHALL BE PERFORMED AT THE PLACE OF PIPE MANUFACTURING. THE JOINT SHALL HAVE A 5 DEGREE MINIMUM DEFLECTION CAPABILITY. SEE SPECIAL PROVISION "STORM SEWERS" FOR ADDITIONAL INFORMATION.
10. PIPE, FITTINGS, AND COUPLINGS SHALL BE DELIVERED TO THE JOB SITE WITH EXTERIOR COATING IN ACCORDANCE WITH THE SPECIAL PROVISION "STORM SEWERS".
SCUPPERS SELECT
11. SCUPPERS/BLOCKS³ ARE REQUIRED IN THESE BARRIERS. SEE BA SHEETS FOR DETAILS. THESE BLOCKS CAN BE REMOVED TO PROVIDE SCUPPER OPENINGS IN THE BARRIER DURING THE FUTURE TEMPORARY TWO-WAY TRAFFIC CONFIGURATION WHEN WABS IS UNDER CONSTRUCTION. THE SCUPPERS WILL ACCOMMODATE DRAINS/SEWERS WHEN SHOULDER(S) ARE TEMPORARILY REMOVED DURING THE FUTURE CONSTRUCTION STAGE. THE SCUPPERS CAN BE PERMANENTLY PLUGGED ONCE WABS IS CONSTRUCTED AND THE ORIGINAL WABS CHANNELIZATION IS RESTORED.
PROVIDED
12. TO ACCOMMODATE FUTURE LIGHT RAIL EXTENSION OF THE BRIDGE DRAINAGE SYSTEM MAY BE NECESSARY. KNOCKOUTS ARE PROVIDED IN GIRDERS AT POTENTIAL CROSSING LOCATIONS. THESE GIRDERS INCLUDE 5L, 10L, 11L, 11L, 14L, 14K, 15L, 16L, 16J, 29F, 29G, 30F, 30G, 31F, 31G, 32F, 32G, 33F, 33G, 34F, 34G, 35B, 36B, 37B, 38B, AND 39B (SEE BA SHEETS FOR GIRDER KNOCKOUT INFORMATION).
13. THE BRIDGE DRAINAGE SYSTEM ALIGNMENT MAY REQUIRE FIELD ADJUSTMENT TO ACCOMMODATE CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL POSITION THE TRUNK MAIN WITH THE BLOCKOUTS TO PROVIDE 1.5% MINIMUM CLEARANCE AT EXPANSION DIAPHRAGMS AND 1" MINIMUM CLEARANCE AT ALL OTHER BLOCKOUT LOCATIONS. MAINTAIN THE EXPANSION AND CONTRACTION MOVEMENT, AND PROVIDE POSITIVE DRAINAGE FLOW (0.30% MINIMUM SLOPE FOR 12" DIAMETER, 0.35% MINIMUM SLOPE FOR 10" DIAMETER, AND 0.51% MINIMUM SLOPE FOR 8" DIAMETER).
14. THE CONTRACTOR SHALL SUBMIT DETAILED WORKING DRAWINGS. ANY PROPOSED ALTERATIONS TO THE DESIGN SHALL BE SHOWN ON THE WORKING DRAWINGS.
15. THERE SHALL BE NO PIPE JOINTS WITHIN DIAPHRAGMS OR BETWEEN DIAPHRAGMS AND THE ADJACENT HANGER OR SUPPORT.

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DATE	3/11/2016
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DESIGNED BY	J. VANIER
ENTERED BY	Y. JIANG
CHECKED BY	J. COOP
PROJ ENGR.	D. EDWARDS
REGIONAL ADM.	J. MEREDITH

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REVISION

DATE

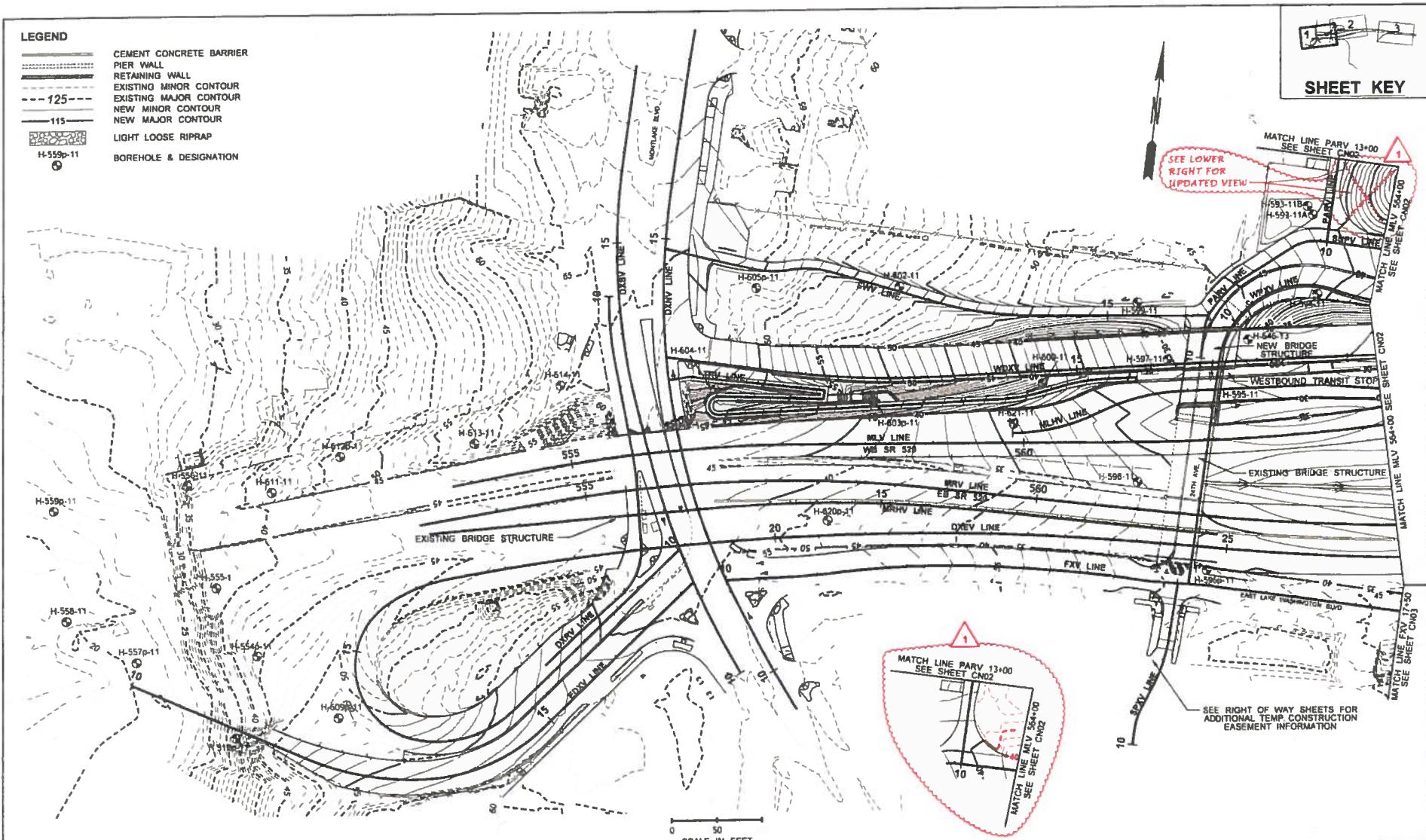
BY



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BRIDGE DRAINAGE DETAILS

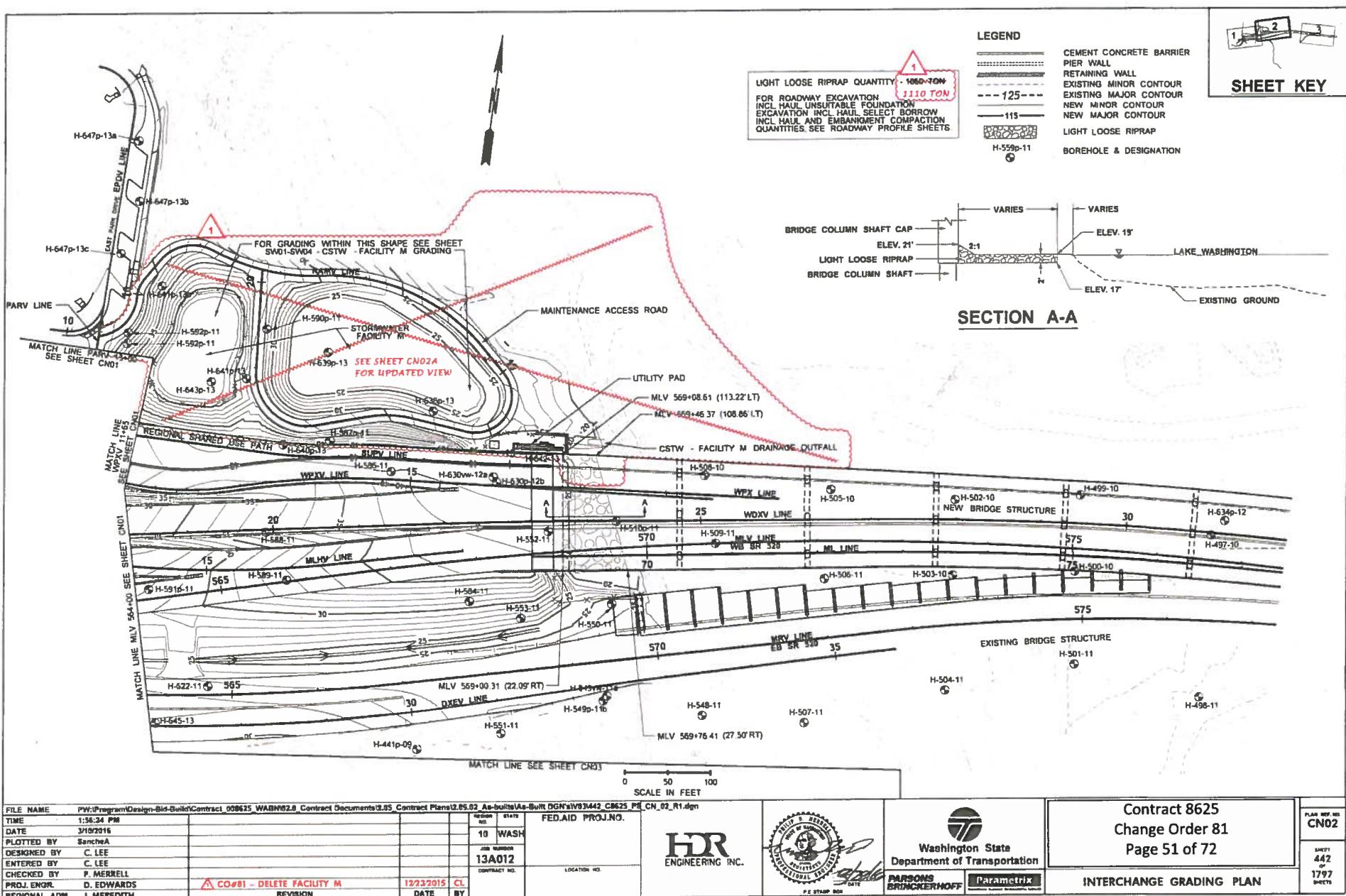
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SHEET
375
OF
1797
SHETS

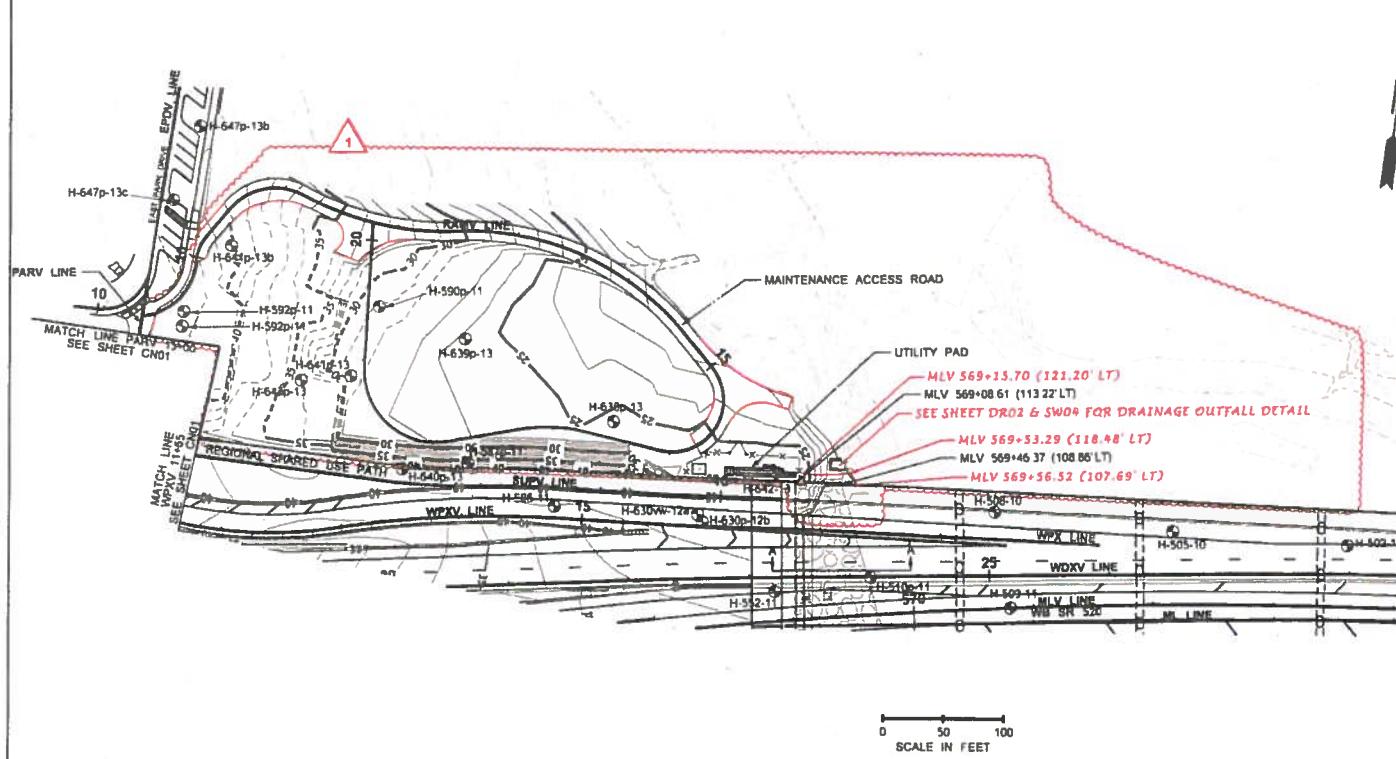


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CHECKED BY	P. MERRELL			LOCATOR NO.		
PROJ. ENGR	D. EDWARDS			P.D. STAMP DATE		
REGIONAL ADM	J. MEREDITH			3/20/15		
	CO/81 - DELETE FACILITY M	REVISION	12/23/2015 CL	DATE BY		



PLAN REF. NO CN01	Contract 8625 Change Order 81 Page 50 of 72
Sheet 441 of 1797 Sheet 2	INTERCHANGE GRADING PLAN





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TIME	1:56:40 PM										Change Order 81	
DATE	3/10/2016										Page 52 of 72	
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DESIGNED BY	C. LEE											
ENTERED BY	C. LEE											
CHECKED BY	P. MERRILL											
PROJ. ENGR.	D. EDWARDS											
REGIONAL ADM.	J. MEREDITH											
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											DATE	
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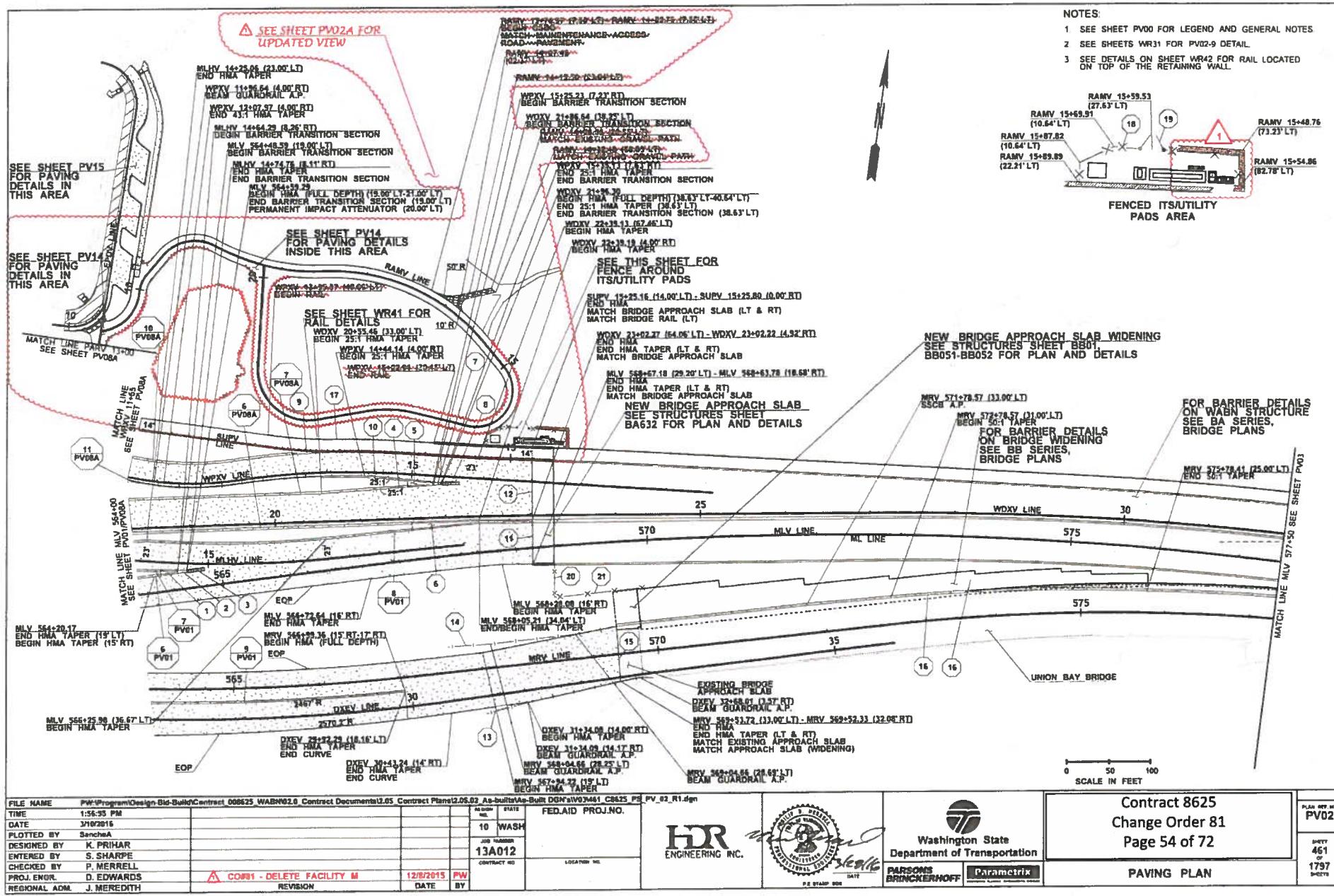
QUANTITY TABULATION - PAVING

												GENERAL NOTES:												
CODE	LOCATION Y \ UNIT OF MEASURE >	S.Y.	S.F.	CEMENT CONC. SIDEWALK	CONCRETE CAP	CEMENT CONC. DRIVEWAY S.Y.	ENTRANCE TYPE 3	CEMENT CONC. CURB RAMP TYPE PERPENDICULAR A	CEMENT CONC. CURB RAMP EACH	CEMENT CONC. CURB RAMP TYPE PERPENDICULAR B	CEMENT CONC. CURB RAMP EACH	CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION A	CEMENT CONC. CURB RAMP TYPE PARALLEL B	EACH	S.F.	DETECTABLE WARNING SURFACE	COATED CHAIN LINK FENCE TYPE 3	COATED END GATE, CORNER, PULLPOST FOR CHAIN LINK FENCE	DOUBLE 14 FT. COATED CHAIN LINK GATE	EACH	EACH	SEE GENERAL NOTES		
PV13-2	TRV 11+77.94 (4' RT) TO TRV 13+19.38 (4' RT)																							2
PV13-3	TRV 12+79.50 (4' LT) TO TRV 15+09.63 (4' LT)																							2
PV13-4	MLHV 11+47.80 (16.19' LT) TO MLHV 13+35.00 (12.00' LT)	200																						2,14,15
PV13-5	TRV 14+50.75 (6.05' LT) TO TRV 14+61.20 (6.51' LT)	9																						15
PV13-6	TRV 15+09.63 (4' LT) TO MRV 15+29.42 (4' LT)	17																						15
PV14-1	PARV 10+42.85 (5.62' RT) TO PARV 10+73.00 (0' RT)																							4
PV14-2	PARV 10+83+18 (36.21' LT) TO PARV 11+17.94 (26.84' LT)																							2
PV14-3	PARV 12+85.83 (8' LT) TO PARV 13+11.39 (14.05' LT)	18																						15
PV14-4	RAMV 16+86.04 (25.04' LT) TO RAMV 16+86.34 (23.84' LT)																							3
PV14-5	RAMV 18+86.04 (25.04' LT) TO RAMV 18+86.34 (23.84' LT)																							16
PV15-1	EPDV 10+13.29 (5' RT) TO EPDV 10+43.38 (5' RT)																							2,13,14,16
PV15-2	EPDV 10+19.71 (20.66' LT) TO EPDV 10+71.01 (14.43' LT)																							2,16,17
PV15-3	EPDV 10+43.38 (5.50' RT) TO EPDV 10+98.95 (22.7' RT)																							2
PV15-4	EPDV 10+98.95 (22.7' RT) TO EPDV 11+03.95 (22.7' RT)																							14
PV15-5	EPDV 11+03.95 (22.7' RT) TO EPDV 13+20.02 (12.50' RT)																							2
PV15-6	EPDV 10+12.46 (8.05' LT) TO EPDV 13+27.29 (27.29' RT)	190																						15
PV15-7	EPDV 13+20.02 (12.5' RT) TO EPDV 13+32.80 (12.5' RT)																							2,16,17
PV15-8	EPDV 13+14.18 (12.57' LT) TO 13+28.80 (12.49' LT)																							2,16,17
PV15-9	EPDV 10+35.35 (37.49' LT) TO EPDV 10+42.50 (28.36' LT)	4																						15
PV15-10	RAMV 9+38.33 (11.06' LT) TO EPDV 11+13.74 (22.70' RT)																							2
PV15-11	EPDV 9+94.44 (5' RT) TO EPDV 10+13.30 (5.5' RT)																							2
PV15-12	EPDV 10+24.18 (8.50' RT)																							21
PV15-13	EPDV 10+29.04 (9.50' RT)																							21
PV15-14	EPDV 10+33.98 (9.50' RT)																							21
PV15-15	EPDV 13+09.14 (28.25' LT) TO EPDV 13+25.85 (30.69' LT)	7																						15
PV15-16	EPDV 9+94.44 (16.87' LT) TO EPDV 13+32.29 (12.75' LT)																							5,14,22
PV16-1	DXSV 10+83.48 (21.5' LT)																							5,14,22
PV16-2	DXNV 10+82.50 (16.8' RT)																							5,14,22
PV17-1	DXRV 12+63.17 (13.77' RT) TO DXRV 12+77.09 (17.07' RT)																							6,14,17
PV17-2	DXRV 12+67.09 (1' LT) TO DXRV 12+80.89 (1' LT)																							6,14,17
PV17-3	DXSV 11+47.22 (36.27' LT) TO DXSV 11+55.07 (23.73' LT)																							6,14,17
PV17-4	DXNV 11+97.21 (11.11' LT) TO DXNV 13+97.48 (12.86' LT)																							11
PV17-5	DXNV 12+97.48 (12.86' LT) TO DXNV 13+20.29 (12.86' LT)																							5
PV17-6	DXSV 12+91.02 (22.00' RT) TO DXSV 13+14.37 (22.00' RT)																							5
SHEET TOTAL		445		20		3	3									523	0	0	0					
PROJECT TOTAL		1391		1434		20										1	610	1546	25	1				
DESIGNED BY	C. LEE																							
ENTERED BY	C. LEE																							
CHECKED BY	P. MERRELL																							
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REGION ADM.	J. MEREDITH																							
DATE	DATE																							
REVISION	BY																							

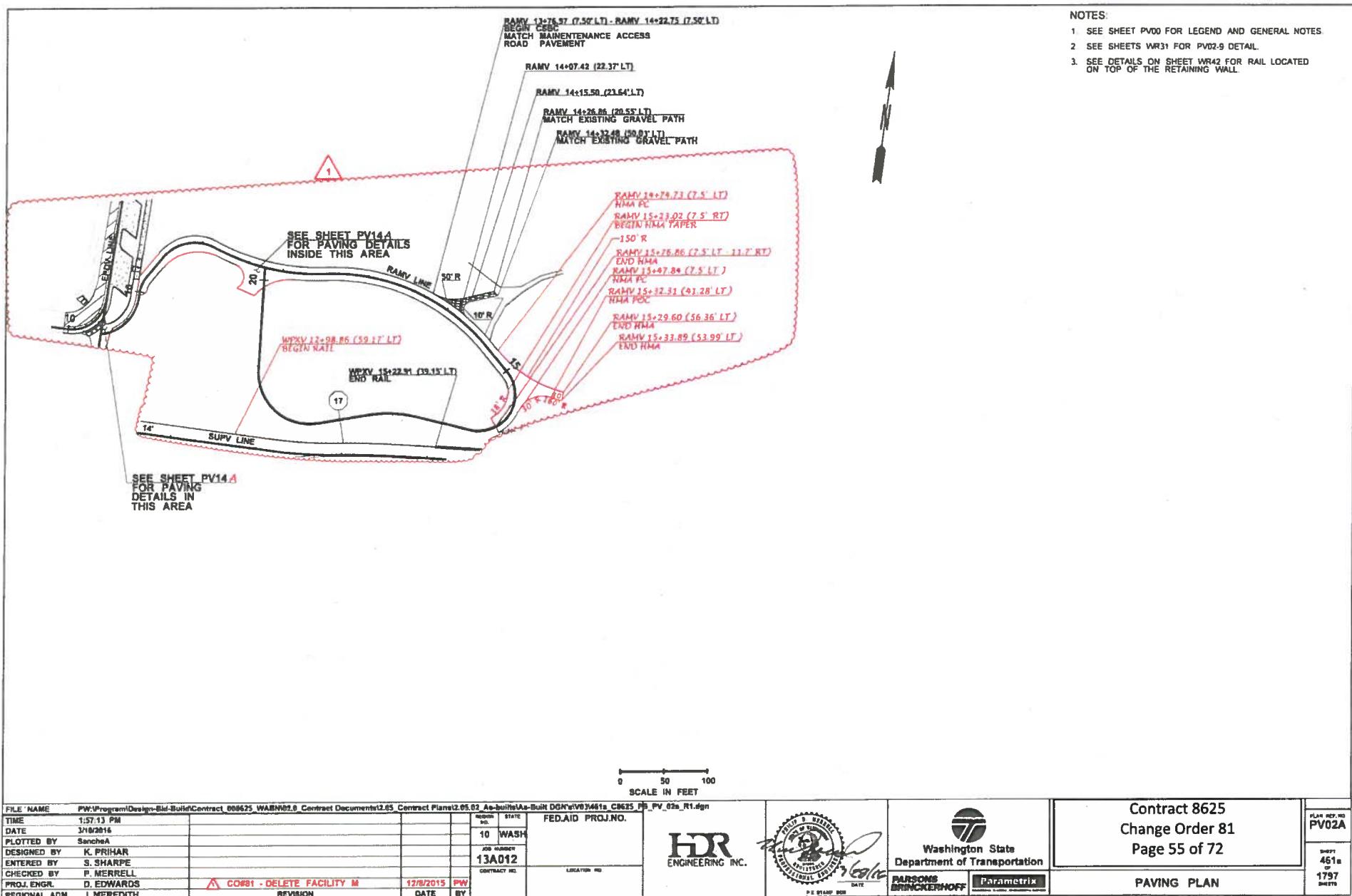
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Department of Transportation

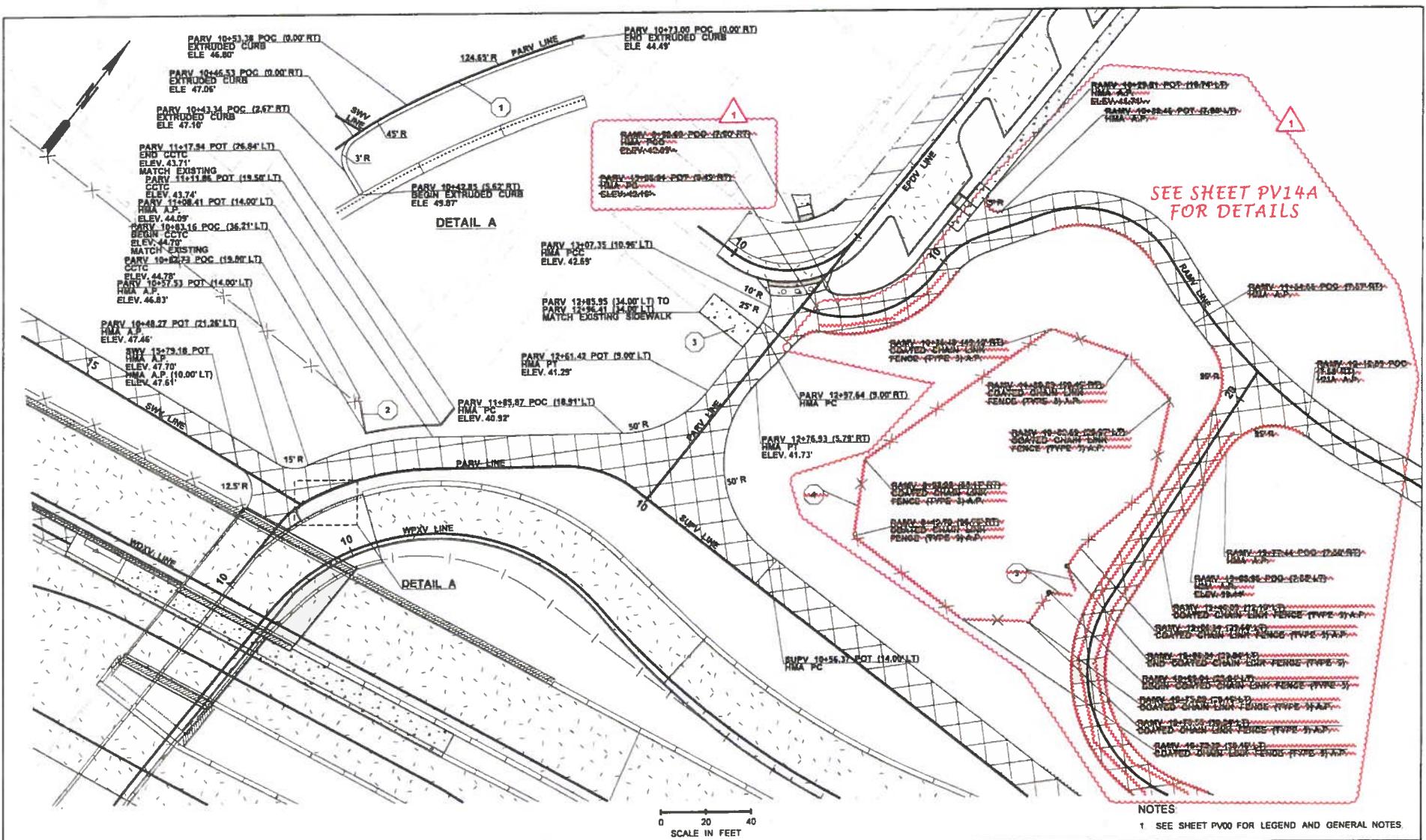
Contract 8625
Change Order 81
Page 53 of 72
QUANTITY TABULATION - PAVING

PVQ 15
SHEET 458
OF 1797
SHEETS



FILE NAME	PW-ProgramDesign-Bld-BultContract_008525_WABN62.02_Contract Documenta1.05_Contract Planeta1.05.05_As-built As-Built DGN\W13M41_C8625 PB	PV_R1.dgn
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DESIGNED BY	K. PRIHAR	
ENTERED BY	S. SHARPE	
CHECKED BY	P. MERRELL	
PROJ. ENGR	D. EDWARDS	A CONN - DELETE FACILITY M
REGIONAL ADM.	J. MEREDITH	REVISION
		DATE BY
		12/28/2015 PW
AS BUILT	STATE	FEDAID PROJ.NO.
10	WASH	
	JOB NUMBER	
	13A012	
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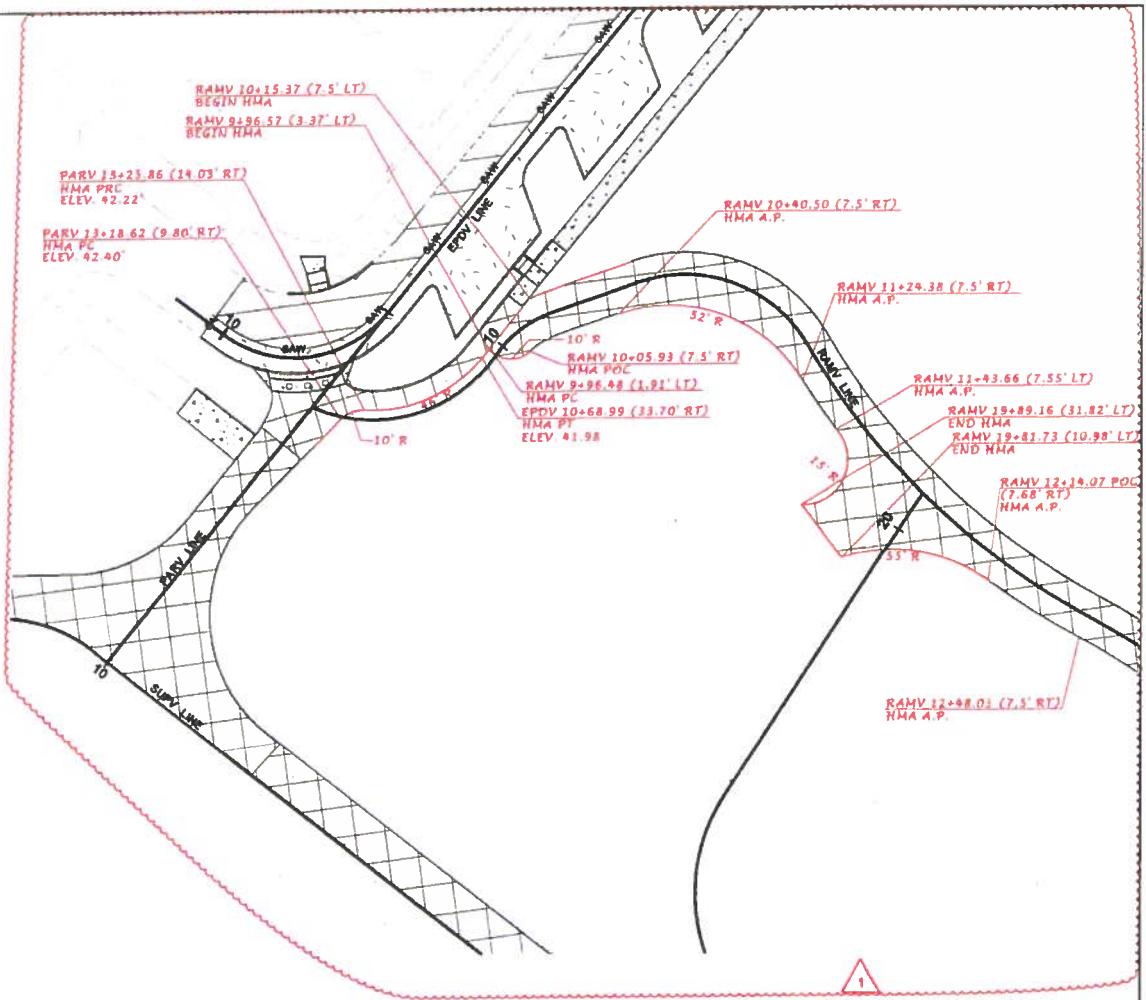


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PROJ. ENGR.	D. EDWARDS					
REGIONAL ADM.	J. MEREDITH					

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FILE REF NO PV14	Contract 8625 Change Order 81 Page 56 of 72		
DATE 3/11/2016	CONTRACT NO. 13A012	DATE 3/11/2016	DATE 3/11/2016
PROJ. NO. WASH	CONTRACT NO. 13A012	CONTRACT NO. 13A012	CONTRACT NO. 13A012
LOCATION NO.	LOCATION NO.	LOCATION NO.	LOCATION NO.
HDR ENGINEERING INC.		Washington State Department of Transportation	
PARSONS BRINCKERHOFF		Parametrix	

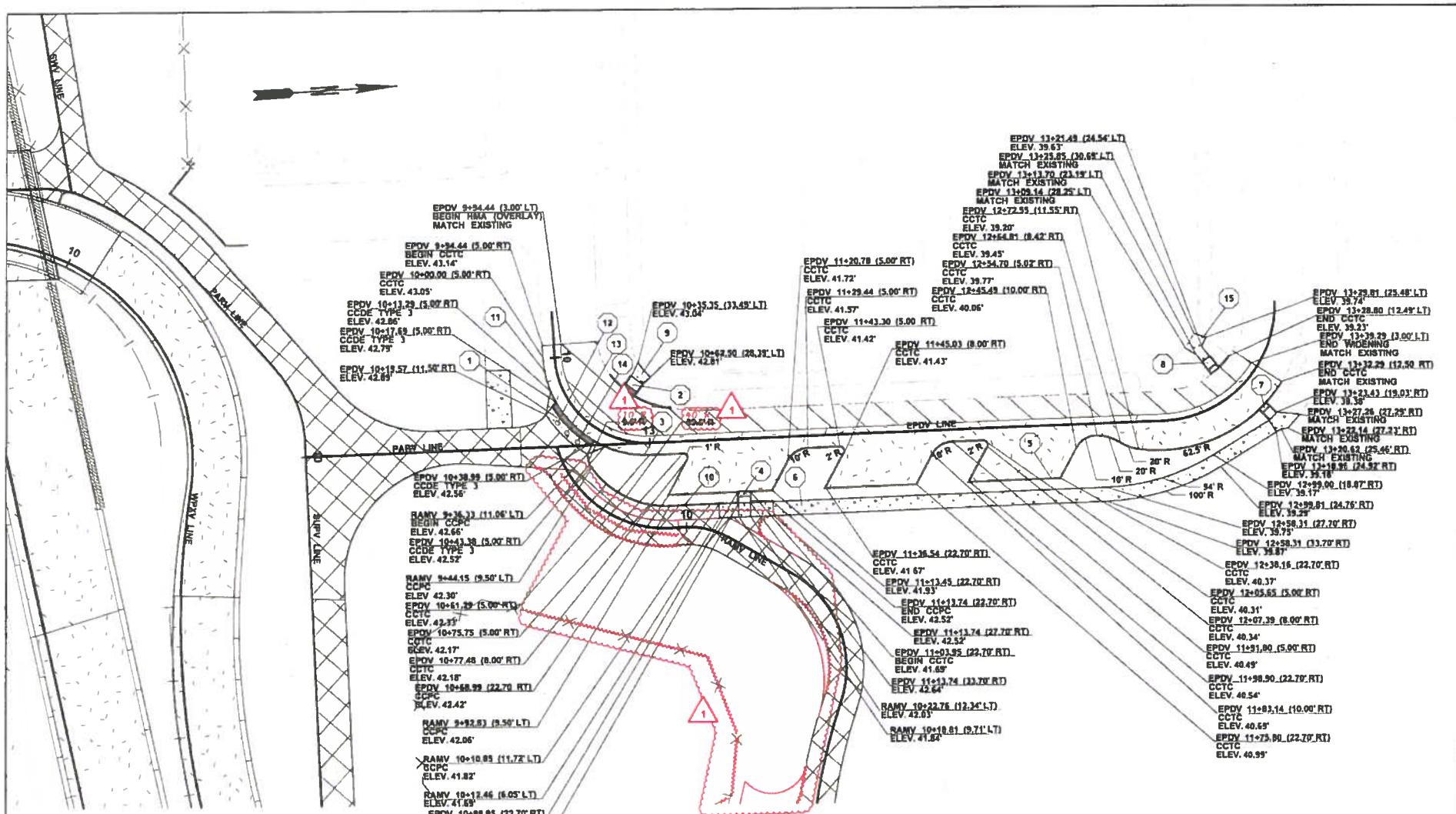
Sheet 474 of 1797 Sheets



NOTES

1. SEE SHEET PV00 FOR LEGEND AND GENERAL NOTES

FILE NAME	SCALE IN FEET										Contract 8625	Change Order 81	Page 57 of 72	PLAN REV. NO PV14A											
TIME	1:57:27 PM	DATE	3/19/2016	DESIGNED BY	K. PRIHAR	ENTERED BY	S. SHARPE	CHECKED BY	F. MERRELL	PROJ. ENGR.	D. EDWARDS	REGIONAL ADM.	J. MEREDITH	REVISION	DATE	BY	FED.AID PROJ.NO.	JOB NUMBER	CONTRACT NO.	LOCATION NO.	HDR ENGINEERING INC.	PARSONS BRINCKERHOFF	Parametric	PAVING DETAILS	SPOT 474 C OF 1797 SHEETS
																				 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION 1905-1995 P.E. STAMP BOX DATE 1/25/16					



1. SEE SHEET PV00 FOR LEGEND AND GENERAL NOTES

FILE NAME	PW:Program Design-Bid-BuildContract_000425_WABIN02.0_Contract Documents\2.05_Central Plate\2.05.03_As-built\As-Built.DGN\sv03475.CB625.P2_PV_15_R.dgn	REGION NO.	STATE	FED.AID PROJ.NO.
TIME	10:45:13 AM			
DATE	3/1/2015			
PLOTTED BY	Sanchita			
DESIGNED BY	K. PRIHAR			
ENTERED BY	S. SHAMPE			
CHECKED BY	P. MERRILL			
PROJ. ENGR.	D. EDWARDS			
REGIONAL ADM.	J. MEREDITH			

A CO#81 - DELETE FACILITY M

REVISION

DATE

BY

JOHN NUMBER	CONTRACT NO.	LOCATION NO.
13A012		



HDR
ENGINEERING INC.



Washington State
Department of Transportation



PARSONS
BRINCKERHOFF

Parametric

Contract 8625
Change Order 81
Page 58 of 72

PAVING DETAILS

PLAN REF ID:
PV15

Sheet
475
of
1797
Sheets

SR 520
MONTLAKE TO EVERGREEN PT. BRIDGE
WEST APPROACH BRIDGE NORTH

**MONTLAKE VICINITY RETAINING WALLS,
TRAFFIC ISLAND AND WALL MODIFICATIONS**

BRIDGE SHEET NO.	SHEET TITLE
WR01	RETAINING WALL SHEET INDEX
WR00	WALL KEY PLAN
WR01	WALL 1 LAYOUT
WR02	WALL 1 SCHEDULE
WR03	WALL 2 LAYOUT
WR04	WALL 3 LAYOUT
WR05	WALL 4 LAYOUT
WR06	WALL 5 LAYOUT
WR07	WALL 6 LAYOUT
WR08	WALL 7 LAYOUT
WR09	WALL 8 LAYOUT
WR10	WALL 9 LAYOUT 1
WR11	WALL 10 LAYOUT
WR12	SOLDIER FILE/TIEBACK WALL DETAILS 1 OF 2
WR13	SOLDIER FILE/TIEBACK WALL DETAILS 2 OF 2
WR14	SOLDIER FILE/TIEBACK WALL FASCIA PANEL DETAILS
WR15	SOLDIER FILE/TIEBACK WALL PERMANENT GROUND ANCHOR DETAILS
WR16	WALL 2 SECTION
WR17	WALL 3 SECTION
WR18	WALL 4 SECTION
WR19	WALL 5 SECTION
WR20	WALL 6 SECTION
WR21	WALL 7 SECTION
WR22	WALL 8 SECTION
WR23	WALL 9 SECTION 1
WR24	WALL 10 SECTION
WR25	CIP CONCRETE WALL SCHEDULE 1
WR26	CIP CONCRETE WALL SCHEDULE 2
WR27	STAIR DETAILS 1 OF 2
WR28	STAIR DETAILS 2 OF 2

BRIDGE SHEET NO.	SHEET TITLE
WR29	RETAINING BARRIERS A & B
WR30	RETAINING BARRIER C
WR31	RETAINING BARRIER D
WR32	LT. WA. BLVD. WALL MODIFICATION LAYOUT
WR33	LT. WA. BLVD. WALL MODIFICATION DETAILS 1 OF 2
WR34	LT. WA. BLVD. WALL MODIFICATION DETAILS 2 OF 2
WR35	MONTLAKE VICINITY KEY PLAN
WR36	TRAFFIC ISLAND PLAN
WR37	TRAFFIC ISLAND DETAILS 1 OF 3
WR38	TRAFFIC ISLAND DETAILS 2 OF 3
WR39	TRAFFIC ISLAND DETAILS 3 OF 3
WR40	RAILING VICINITY KEY PLAN
WR41	BRIDGE RAILING MOMENT SLAB ON GRADE
WR42	BRIDGE RAILING MOMENT SLAB ON WALL
WR43	BR. RAILING TYPE VERTICAL BAR PED. DETAILS 1 OF 2
WR44	BR. RAILING TYPE VERTICAL BAR PED. DETAILS 2 OF 2
WR45	BR. RAILING TYPE MOMENT SLAB PED. DETAILS
WR46	CABLE FENCE
WR47	TRAFFIC BARRIER DETAILS 1 OF 2
WR48	TRAFFIC BARRIER DETAILS 2 OF 2
WR49	LUMINAIRE ANCHORAGE DETAILS
WR50	LUMINAIRE BASE DETAILS
WR51	PEDESTRIAN PLATFORM DETAILS
WR52	POLE FOUNDATION DETAILS 1 OF 2
WR53	POLE FOUNDATION DETAILS 2 OF 2
WR54	GROUND IMPROVEMENT PLAN
WR55	PRESENTATION CENTER DETAILS
WR56	PRESENTATION CENTER DETAILS 2 OF 2
WR57	RAILUTTING CENTER DETAILS
WR58	PRESENTATION CENTER DETAILS
WR59	PARALLEL CURB RAMPS DETAILS
WR60	GUARDRAIL ATTACHMENT DETAILS

Bridge Design Engr. PW\Program\Design-Bid-Build\Contract_090805_WARNIGS_6_Contract Documents\3.0_Contract Plans\2.05.04_As-Built\As-Built DS\W\SR518_C9002_P8_IWR_01_R1.dwg									
Supervisor	DESIGNER	DESIGNER	DESIGNER	DESIGNER	STATE	PUB. AID PROJ. NO.	CONTRACT NO.	REV. NO.	DATE
BOTT, P.	JELLIN, A.				WA	WASH			
Designed By	JELLIN, A.								
Checked By	AKESSON, B.								
Detailed By	JELLIN, A.								
Bridge Project Engr.									
Project Plan By	12/11/11	CD480 - DELETE FACILITY M	04	GOK					
Architect/Specialist	DATE	REVISION	BY	APPRO					
Initials	EAS-07-70								

HDR
ENGINEERING INC.

Washington State
Department of Transportation

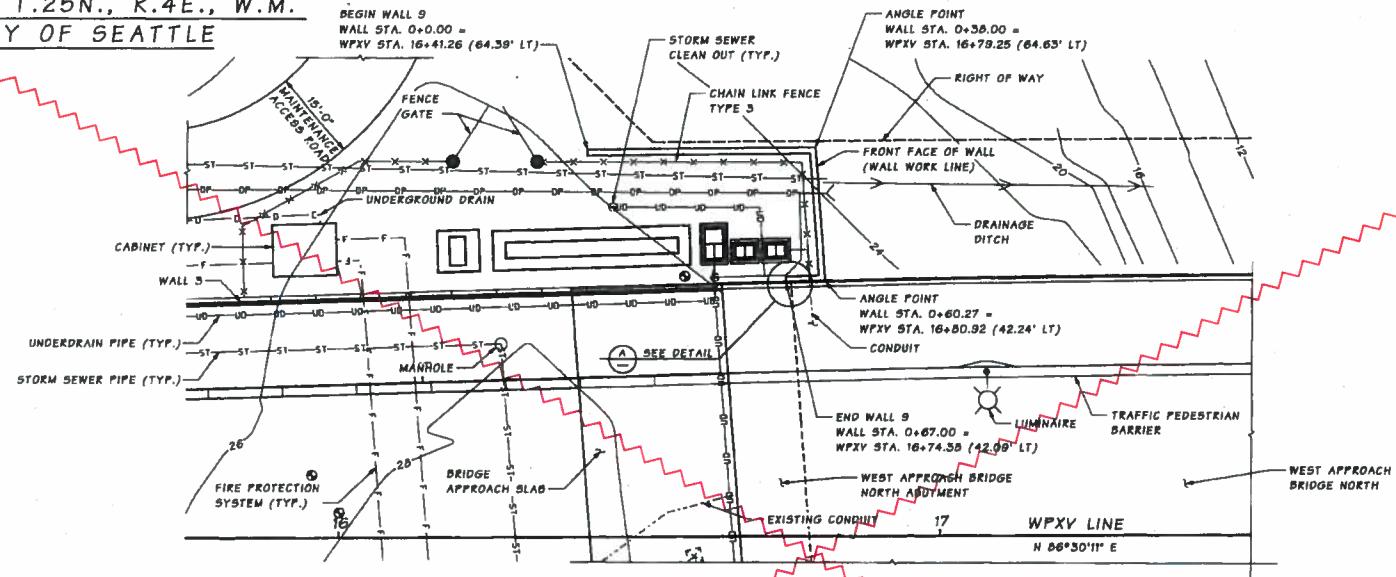
PARSONS
BRINCKERHOFF

Parametrix

**Contract 8625
Change Order 81
Page 59 of 72**
RETAINING WALL SHEET INDEX

**BRIDGE SHEET NO.
IWRO1
D-NET
510
or
1797
PWS12**

SEC. 21, T.25N., R.4E., W.M.
CITY OF SEATTLE



DETAIL A

DATUM
NAD 1988

REFLECTED DEVELOPED ELEVATION

WALL 9

REFERENCE ELEV. 0.00

SR 520

- NOTES:**
- FOR LOCATIONS AND DETAILS OF STORM SEWER PIPES, UNDERDRAIN PIPES, CATCH BASINS, CONCRETE INLETS, DRAIN PIPES, AND CONCRETE GUTTERS SEE DRAINAGE PLANS AND DETAILS.
 - FOR LUMINAIRE DETAILS SEE ILLUMINATION PLANS.
 - NOT ALL EXISTING UTILITIES ARE SHOWN. SEE EXISTING UTILITY PLANS.
 - SEE SHEET WR25 FOR WALL 9 TYPICAL SECTION.

SR 520 FILE NO. 2051 STREET WR10

Project Name VGU11 MABN

DATE 12/8/15

REVISION 1

BY APPD

48-14

Bridge Design Engr.

BOTT, P.

Designed By

JELLIN, A.

Checked By

AKERSON, B.

Approved By

JELLIN, A.

Bridge Project No.

12081 - DELETE FACILITY M

BA 00K

APPD

48-14

DATE

REVISION

BY

APPD

48-14

JOE NUMBER

15A012

48-14

1787

48-14

1787



48-14



Washington State
Department of Transportation

PARSONS
BRINCKERHOFF

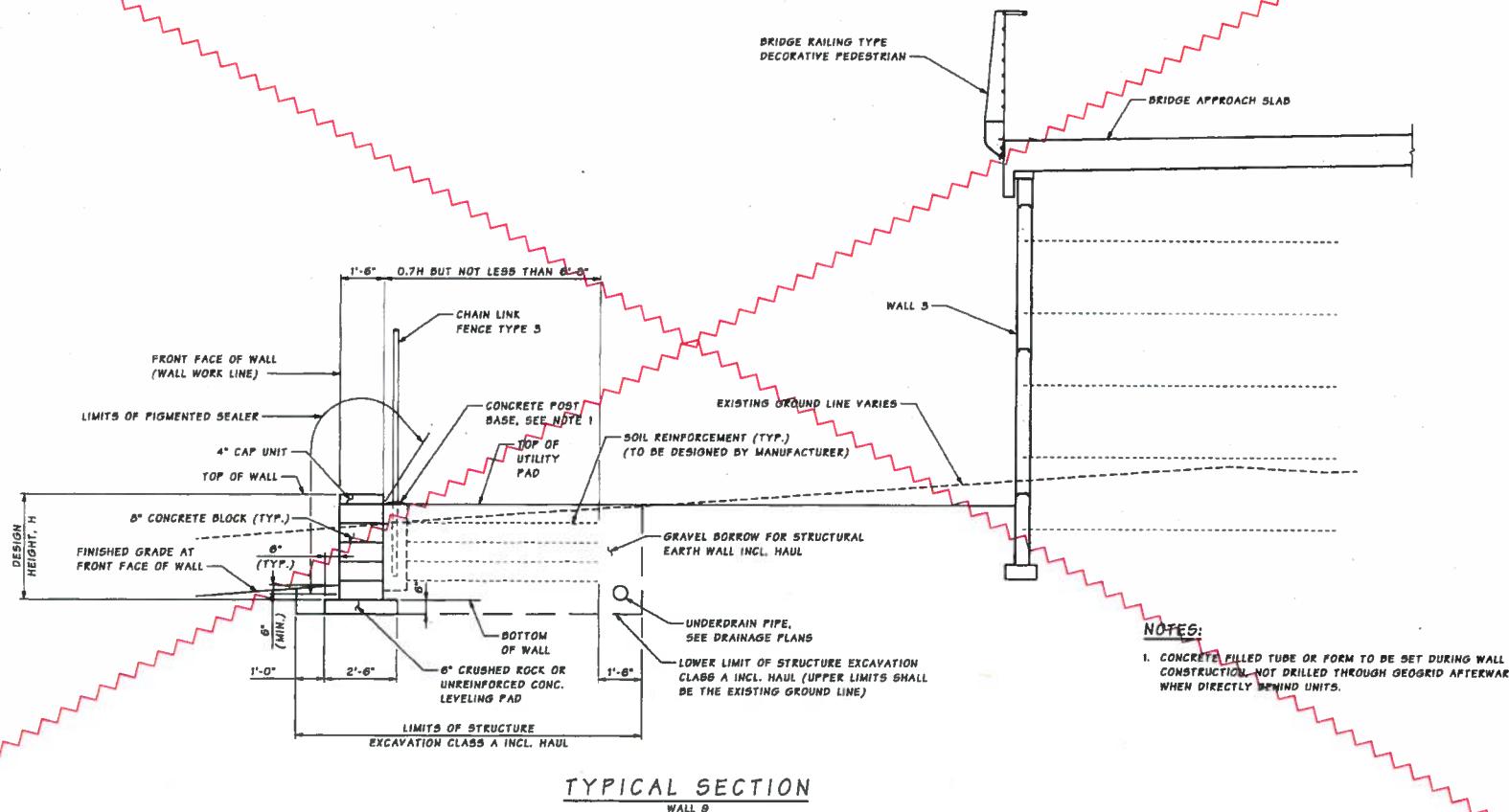
Parametric

Contract 8625
Change Order 81
Page 60 of 72

WALL 9 LAYOUT

Sheet No.
521
of
1797
Revised

WR10



Bridge Design Dsgn. Project No. YG17s WABN									
Supervisor	BOTT, P.								
Designed By	JELLINE, A.								
Checked By	AMERSON, B.								
Delivered By	JELLINE, A.								
Bridge Projects Dsgn.									
Printed Plan By	12/2/15	COB&I - DELETE FACILITY M	8A	DK					
Architect/Engineer									
Architect/Engineer									



HDR
ENGINEERING INC.

4-2-14



Washington State
Department of Transportation

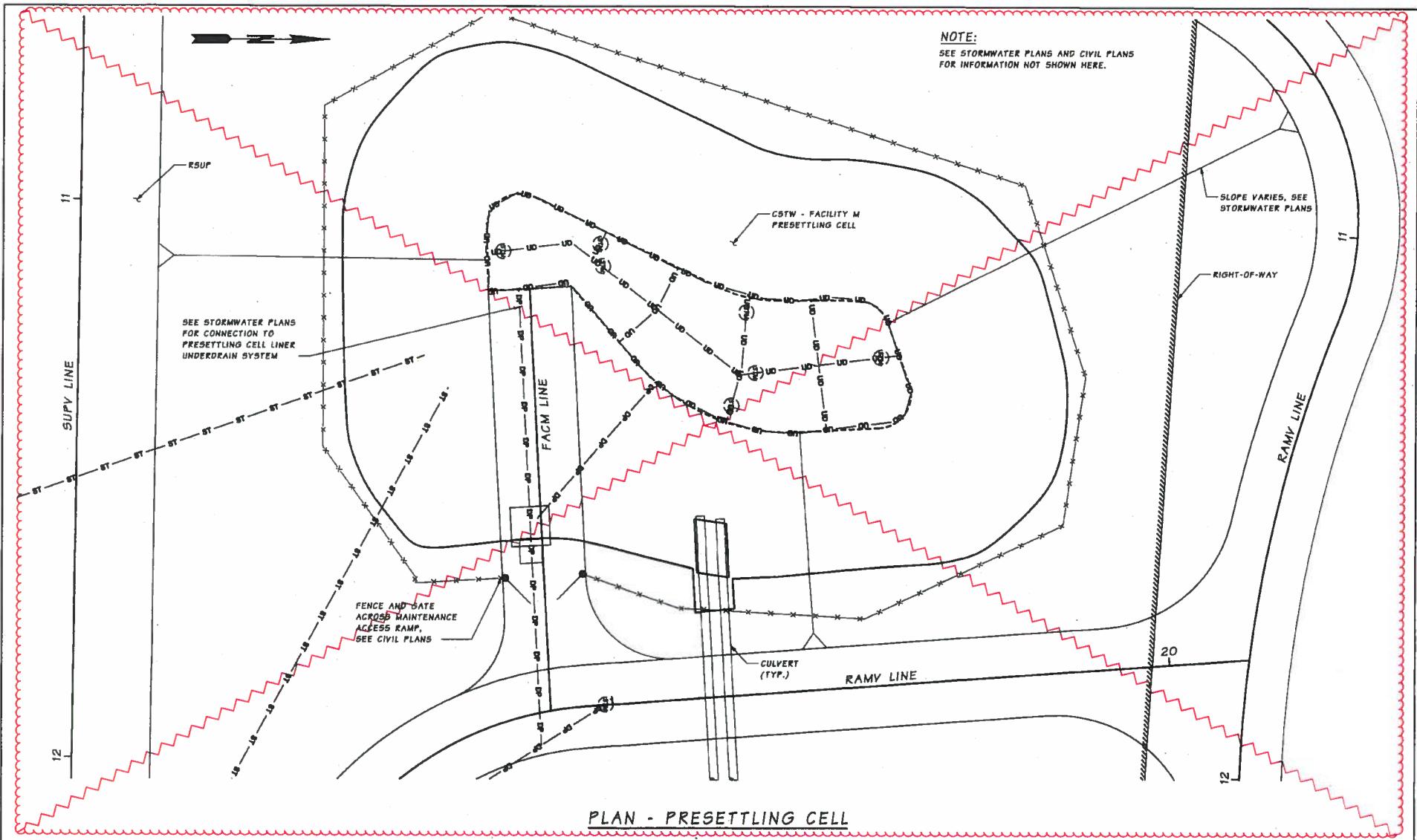
PARSONS
BRINCKERHOFF

PARAMETRIX

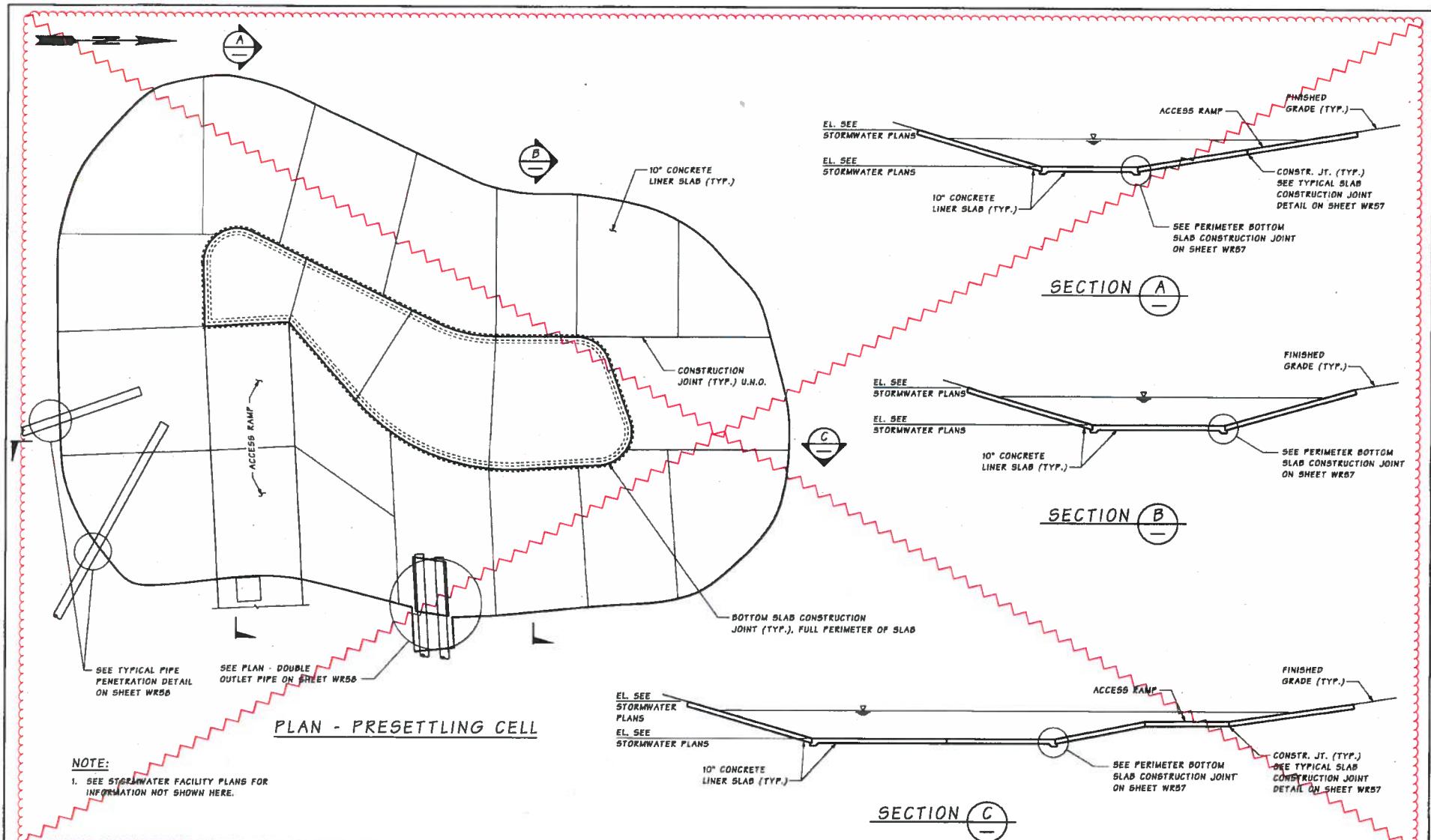
Contract 8625
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WALL 9 SECTION

DESIGN SHEET
WR23
8625
534
DP
1797
8-2014



PLAN - PRESETTLING CELL



Bridge Design Eng.		PRICED FOR PERMITTED DESIGNER AND OWNER USE ONLY							
Supervisor	BOTT, P.			REVISION	REV.	STATE	PER. AID PROJ. NO.	OWNER	TYPE
Designed By	ZAHLIER, D.					18	WASH		
Checked By	IGNATIUS, G.								
Detailled By	VYFEL, M.						JOB NUMBER		
							15A012		
Bridge Projects Engr.									
Printed, File By	12/9/15			COMB1 - DELETE FACILITY M	EA	GGK			
Architect/Planned	DATE	REVISION		BY	APPD				



48-14

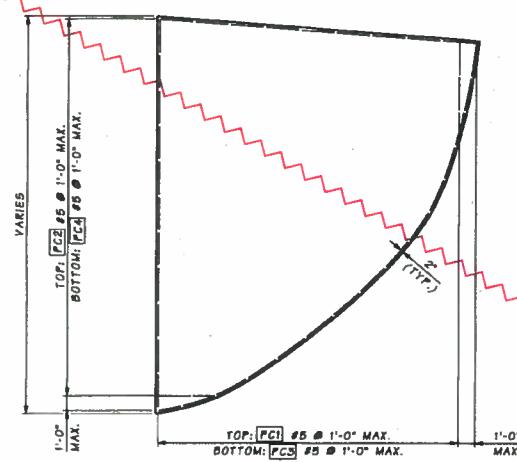


 Washington State
Department of Transportation

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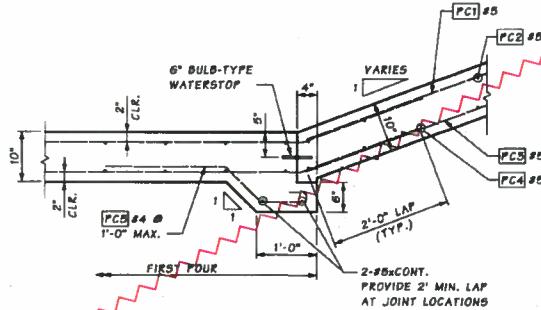
PRESETTLING CELL
DETAILS 2 OF 4

WR56

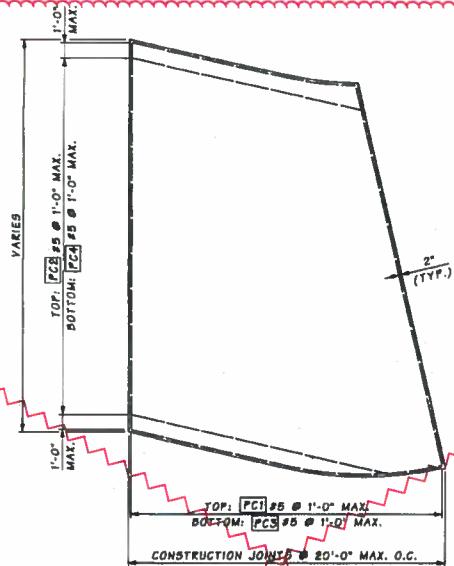


PLAN - 10" CONCRETE LINER CORNER SLAB

WATERSTOP AND THICKENED CONCRETE SECTIONS
AT PERIMETER BOTTOM SLAB CONSTRUCTION JOINTS
(WHERE APPLICABLE) NOT SHOWN



PERIMETER BOTTOM SLAB CONSTRUCTION JOINT



PLAN - 10" CONCRETE LINER SLAB

~~WATERSTOP AND THICKENED CONCRETE SECTIONS
AT PERIMETER BOTTOM SLAB CONSTRUCTION JOINTS
(WHERE APPLICABLE) NOT SHOWN~~



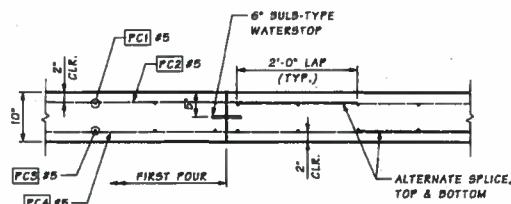
FLAT TEE FLAT CROSS FLAT ELL

WATERSTOP DETAIL

NOTES:

1. BULB TYPE WATERSTOP SHALL BE HANDLED SIMILAR TO AS SHOWN WITH BULB JOINTS MITERED FOR FULL CONTINUITY OF HOLLOW BULB.

2. ONLY STRAIGHT BUTT JOINT WELDS ARE ALLOWED IN THE FIELD.



TYPICAL SLAB CONSTRUCTION JOINT

Bridge Design Engg.		PW:CADSPR@HEMINGWAY.CDOPA.MIL&PW:WASHBPE384.WASH_DC.WW_57.dwg				RECD BY	STATE	FED. AID PROJ. NO.	S
Subscriber	BOTT, P.								
Designed By	ZAHLLER, D.					10	WASH		
Checked By	KNUSTON, G.							JSA012	
Reviewed By	VYPLEL, M.								5
Bridge Projects Engg.									
Project File No.	12345		CONTINUOUS FACILITY M.	BA	DSK				
Architect/Engineer		DATE	REVISION	BT	APPB				
Project Title	WASH DC								



- HDR
ENGINEERING, INC.

4-8-14

 Washington State
Department of Transportation

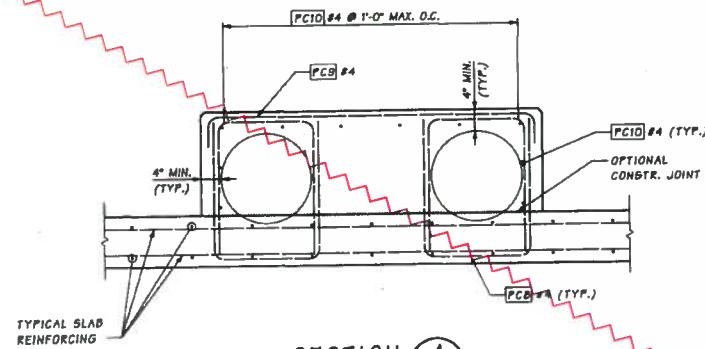
**PARSONS
STRUCTURAL**

Parametrix

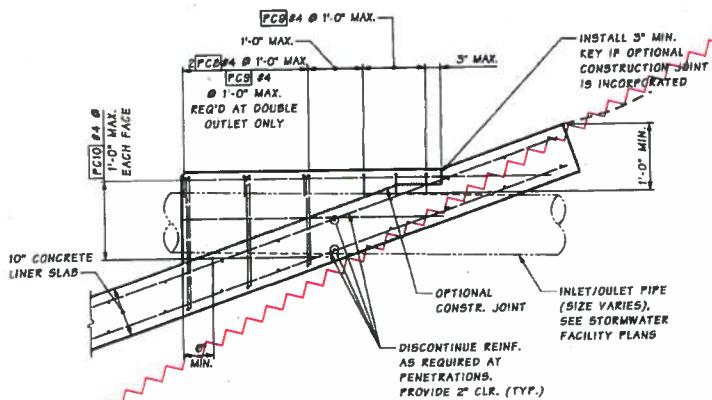
Contract 8625
Change Order 81
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**PRESETTLING CELL
DETAILS 3 OF 4**

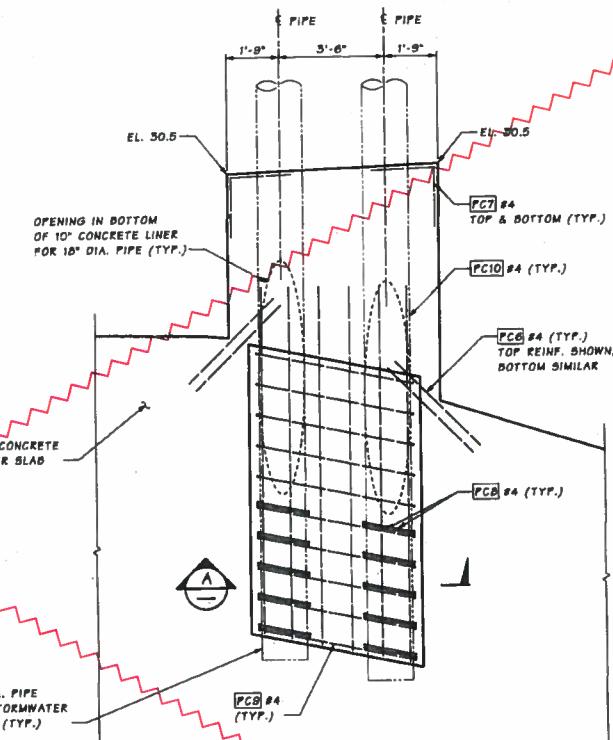
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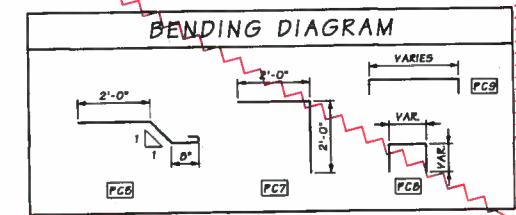
SECTION A



TYPICAL PIPE PENETRATION DETAIL



PLAN - DOUBLE OUTLET PIPE



Bridge Design Eng.		PROJECT NUMBER		FED. AID PROJ. NO.		SHORT TOTAL LENGTH		OWNER STATE	JOB NUMBER
Supervisor	BOTT, P.								
Designed By	ZAHLLER, D.							WA	15A012
Checked By	KNUSTON, G.								
Approved By	VYPLE, M.								
Bridge Project Eng.									
Printed, Plan No.	12/08/15	CO#81 - DELETE FACILITY M	R4	GOK					
Approved/checked					BY APPD				
DATE		REVISION							



4-8-14

Washington State
Department of Transportation

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BRINCKERHOFF

parametrix

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Page 65 of 72

PRESETTLING CELL
DETAILS 4 OF 4

WR5B
SHEET
569
OF
1797
SERIAL

SHEET INDEX 5

WEST APPROACH BRIDGE - NORTH		
BRIDGE SHEET NO.	SHEET TITLE	VOLUME NO.
BA475	BRIDGE DECK REINFORCEMENT PLAN - PIER 2B BOTTOM MAT	B OF 10
BA476	BRIDGE DECK REINFORCEMENT PLAN - PIER 2B TOP MAT	B OF 10
BA477	BRIDGE DECK REINFORCEMENT PLAN - PIER 2B BOTTOM MAT	B OF 10
BA478	BRIDGE DECK REINFORCEMENT PLAN - PIER 2B TOP MAT	B OF 10
BA479	BRIDGE DECK REINFORCEMENT PLAN - PIER 30 BOTTOM MAT	B OF 10
BA480	BRIDGE DECK REINFORCEMENT PLAN - PIER 30 TOP MAT	B OF 10
BA481	BRIDGE DECK REINFORCEMENT PLAN - PIER 31 BOTTOM MAT	B OF 10
BA482	BRIDGE DECK REINFORCEMENT PLAN - PIER 31 TOP MAT	B OF 10
BA483	BRIDGE DECK REINFORCEMENT PLAN - PIER 32 BOTTOM MAT	B OF 10
BA484	BRIDGE DECK REINFORCEMENT PLAN - PIER 33 TOP MAT	B OF 10
BA485	BRIDGE DECK REINFORCEMENT PLAN - PIER 33 BOTTOM MAT	B OF 10
BA486	BRIDGE DECK REINFORCEMENT PLAN - PIER 33 TOP MAT	B OF 10
BA487	BRIDGE DECK REINFORCEMENT PLAN - PIER 34 BOTTOM MAT	B OF 10
BA488	BRIDGE DECK REINFORCEMENT PLAN - PIER 34 TOP MAT	B OF 10
BA489	BRIDGE DECK REINFORCEMENT PLAN - PIER 35 BOTTOM MAT	B OF 10
BA490	BRIDGE DECK REINFORCEMENT PLAN - PIER 35 TOP MAT	B OF 10
BA491	BRIDGE DECK REINFORCEMENT PLAN - PIER 36 BOTTOM MAT	B OF 10
BA492	BRIDGE DECK REINFORCEMENT PLAN - PIER 36 TOP MAT	B OF 10
BA493	BRIDGE DECK REINFORCEMENT PLAN - PIER 37 BOTTOM MAT	B OF 10
BA494	BRIDGE DECK REINFORCEMENT PLAN - PIER 37 TOP MAT	B OF 10
BA495	BRIDGE DECK REINFORCEMENT PLAN - PIER 38 BOTTOM MAT	B OF 10
BA496	BRIDGE DECK REINFORCEMENT PLAN - PIER 38 TOP MAT	B OF 10
BA497	BRIDGE DECK REINFORCEMENT PLAN - PIER 39 BOTTOM MAT	B OF 10
BA498	BRIDGE DECK REINFORCEMENT PLAN - PIER 39 TOP MAT	B OF 10
BA499	BRIDGE DECK REINFORCEMENT PLAN - PIER 40 BOTTOM MAT	B OF 10
BA500	BRIDGE DECK REINFORCEMENT PLAN - PIER 40 TOP MAT	B OF 10
BA501	BRIDGE DECK REINFORCEMENT PLAN - SPAN 40 BOTTOM MAT	B OF 10
BA502	BRIDGE DECK REINFORCEMENT PLAN - SPAN 40 TOP MAT	B OF 10
BA503	BRIDGE DECK REINFORCEMENT SECTION - SPANS 1B THRU 4D	B OF 10
BA504	BRIDGE DECK REINFORCEMENT PLAN - SPAN 41 BOTTOM MAT	B OF 10
BA505	BRIDGE DECK REINFORCEMENT PLAN - SPAN 41 TOP MAT	B OF 10
BA506	BRIDGE DECK REINFORCEMENT SECTION - SPAN 41	B OF 10
BA507	PIER 42 VICINITY PLAN	B OF 10
BA508	BRIDGE DECK REINF. PLANS - TRANSITION SPAN	B OF 10
BA509	BRIDGE DECK REINF. SECTIONS - TRANSITION SPAN	B OF 10
BA510	BRIDGE DECK REINF. DETAILS - TRANSITION SPAN	B OF 10
BA511	BRIDGE DECK REINFORCEMENT DETAILS - AT DRAINS 1	B OF 10
BA512	BRIDGE DECK REINFORCEMENT DETAILS - AT DRAINS 2	B OF 10
BA513	BRIDGE DECK REINFORCEMENT DETAILS - AT DRAINS 3	B OF 10
BA514	BRIDGE DECK REINFORCEMENT DETAILS - AT DRAINS 4	B OF 10

WEST APPROACH BRIDGE - NORTH		
BRIDGE SHEET NO.	SHEET TITLE	VOLUME NO.
BA515	BRIDGE DECK REINFORCEMENT DETAILS - AT CLEANOUTS 1	B OF 10
BA516	BRIDGE DECK REINFORCEMENT DETAILS - AT CLEANOUTS 2	B OF 10
BA517	BRIDGE DECK REINFORCEMENT DETAILS - AT CLEANOUTS 3	B OF 10
BA518	CATCH BASINS - DETAILS 1	B OF 10
BA519	CATCH BASINS - DETAILS 2	B OF 10
BA520	BRIDGE DECK REINFORCEMENT DETAILS - AT CATCH BASINS 1	B OF 10
BA521	BRIDGE DECK REINFORCEMENT DETAILS - AT CATCH BASINS 2	B OF 10
BA522	CATCH BASINS - DETAILS 3	B OF 10
BA523	CATCH BASINS - DETAILS 4	B OF 10
BA524	BRIDGE DECK REINFORCEMENT DETAILS - AT CATCH BASINS 3	B OF 10
BA525	BRIDGE DECK REINFORCEMENT DETAILS - AT CATCH BASINS 4	B OF 10
BA526	MODULAR EXPANSION JOINT - ELEVATIONS 1	9 OF 10
BA527	MODULAR EXPANSION JOINT - ELEVATIONS 2	9 OF 10
BA528	MODULAR EXPANSION JOINT PLAN - PIER 1	9 OF 10
BA529	MODULAR EXPANSION JOINT SECTION - PIER 1	9 OF 10
BA530	MODULAR EXPANSION JOINT PLAN - PIER 8	9 OF 10
BA531	MODULAR EXPANSION JOINT PLAN - PIERS 18, 27, 34	9 OF 10
BA532	MODULAR EXPANSION JOINT SECTION - PIERS 9, 18, 27, 34	9 OF 10
BA533	MODULAR EXPANSION JOINT PLAN - PIER 41	9 OF 10
BA534	MODULAR EXPANSION JOINT SECTION - PIER 41	9 OF 10
BA535	MODULAR EXPANSION JOINT PLAN - PIER 42	9 OF 10
BA536	MODULAR EXPANSION JOINT SECTION - PIER 42	9 OF 10
BA537	MODULAR EXPANSION JOINT DETAILS 1	9 OF 10
BA538	MODULAR EXPANSION JOINT DETAILS 2	9 OF 10
BA539	MODULAR EXPANSION JOINT PLAN - RSUP COVER PLATE	9 OF 10
BA540	SEISMIC RESTRAINER DETAILS 1	9 OF 10
BA541	SEISMIC RESTRAINER DETAILS 2	9 OF 10
BA542	ELASTOVERIC PAD DETAILS 1	9 OF 10
BA543	ARRIER PLAN	9 OF 10
BA544	ARRIER SCUPPER 	9 OF 10
BA545	TRAFFIC PEDESTRIAN BARRIER - DETAILS 1 OF 4	9 OF 10
BA546	TRAFFIC PEDESTRIAN BARRIER - DETAILS 2 OF 4	9 OF 10
BA547	TRAFFIC PEDESTRIAN BARRIER - DETAILS 3 OF 4	9 OF 10
BA548	TRAFFIC PEDESTRIAN BARRIER - DETAILS 4 OF 4	9 OF 10
BA549	TRAFFIC BARRIER - DETAILS 1 OF 4	9 OF 10
BA550	TRAFFIC BARRIER - DETAILS 2 OF 4	9 OF 10
BA551	TRAFFIC BARRIER - DETAILS 3 OF 4	9 OF 10
BA552	TRAFFIC BARRIER - DETAILS 4 OF 4	9 OF 10
BA553	MEDIAN TRAFFIC BARRIER - DETAILS 1 OF 2	9 OF 10
BA554	MEDIAN TRAFFIC BARRIER - DETAILS 2 OF 2	9 OF 10

WEST APPROACH BRIDGE - NORTH		
BRIDGE SHEET NO.	SHEET TITLE	VOLUME NO.
BA555	BARRIER DETAILS 1 - JUNCTION BOX LOCATIONS	9 OF 10
BA556	BARRIER DETAILS 2 - BARRIER ELEVATIONS	9 OF 10
BA557	HOSE OUTLET DETAILS - TRAFFIC PEDESTRIAN BARRIER	9 OF 10
BA558	HOSE OUTLET DETAILS - TRAFFIC BARRIER	9 OF 10
BA559	LUMINARE BASE DETAILS - TRAFFIC PEDESTRIAN BARRIER	9 OF 10
BA560	LUMINARE ATTACHMENT DETAILS - TRAFFIC BARRIER	9 OF 10
BA561	CCTV CAMERA ATTACHMENT DETAILS - TRAFFIC BARRIER	9 OF 10
BA562	BARRIER EXPANSION JOINT DETAILS 1	9 OF 10
BA563	BARRIER EXPANSION JOINT DETAILS 2	9 OF 10
BA564	BARRIER EXPANSION JOINT DETAILS 3	9 OF 10
BA565	BARRIER EXPANSION JOINT DETAILS 4	9 OF 10
BA566	BARRIER EXPANSION JOINT DETAILS 5	9 OF 10
BA567	BR. RAILING TYPE DECORATIVE PED. - TYPICAL DETAILS 1	9 OF 10
BA568	BR. RAILING TYPE DECORATIVE PED. - TYPICAL DETAILS 2	9 OF 10
BA569	BR. RAILING TYPE DECORATIVE PED. - TYPICAL DETAILS 3	9 OF 10
BA570	BR. RAILING TYPE DECORATIVE PED. - PIER 1 DETAILS	9 OF 10
BA571	BR. RAILING TYPE DECORATIVE PED. - PIERS 9, 18, 27, 34 DETAILS	9 OF 10
BA572	BR. RAILING TYPE DECORATIVE PED. - PIER 41 DETAILS	9 OF 10
BA573	BR. RAILING TYPE DECORATIVE PED. - PIER 42 DETAILS	9 OF 10
BA574	BR. RAILING TYPE DECORATIVE PED. - EXPANSION DETAILS	9 OF 10
BA575	BR. RAILING TYPE DECORATIVE PED. - BELVEDERE DETAILS 1	9 OF 10
BA576	BR. RAILING TYPE DECORATIVE PED. - BELVEDERE DETAILS 2	9 OF 10
BA577	BR. RAILING TYPE DECORATIVE PED. - BELVEDERE DETAILS 3	9 OF 10
BA578	SIGN BRIDGE GENERAL NOTES	9 OF 10
BA579	SIGN BRIDGE LAYOUT 1	9 OF 10
BA580	SIGN BRIDGE LAYOUT 2	9 OF 10
BA581	SIGN BRIDGE LAYOUT 3	9 OF 10
BA582	SIGN BRIDGE LAYOUT 4	9 OF 10
BA583	SIGN BRIDGE LAYOUT 5	9 OF 10
BA584	SIGN BRIDGE LAYOUT 6	9 OF 10
BA585	SIGN BRIDGE LAYOUT 7	9 OF 10
BA586	SIGN BRIDGE MONOTUBE SCHEDULE	9 OF 10
BA587	SIGN BRIDGE DETAILS 1	9 OF 10
BA588	SIGN BRIDGE DETAILS 2	9 OF 10
BA589	SIGN BRIDGE DETAILS 3	9 OF 10
BA590	SIGN BRIDGE SUPPORT DETAILS 1	9 OF 10
BA591	SIGN BRIDGE SUPPORT DETAILS 2	9 OF 10
BA592	SIGN MOUNTING AT EXISTING TRUSS - DETAILS 1	9 OF 10
BA593	BRIDGE DRAINAGE SYSTEM LAYOUT - FRAME 1	9 OF 10
BA594	BRIDGE DRAINAGE SYSTEM LAYOUT - FRAME 2	9 OF 10

SR 820 FILE NO. Z051 SHEET 1BA05
Projectwise V06

Sheet 1BA05

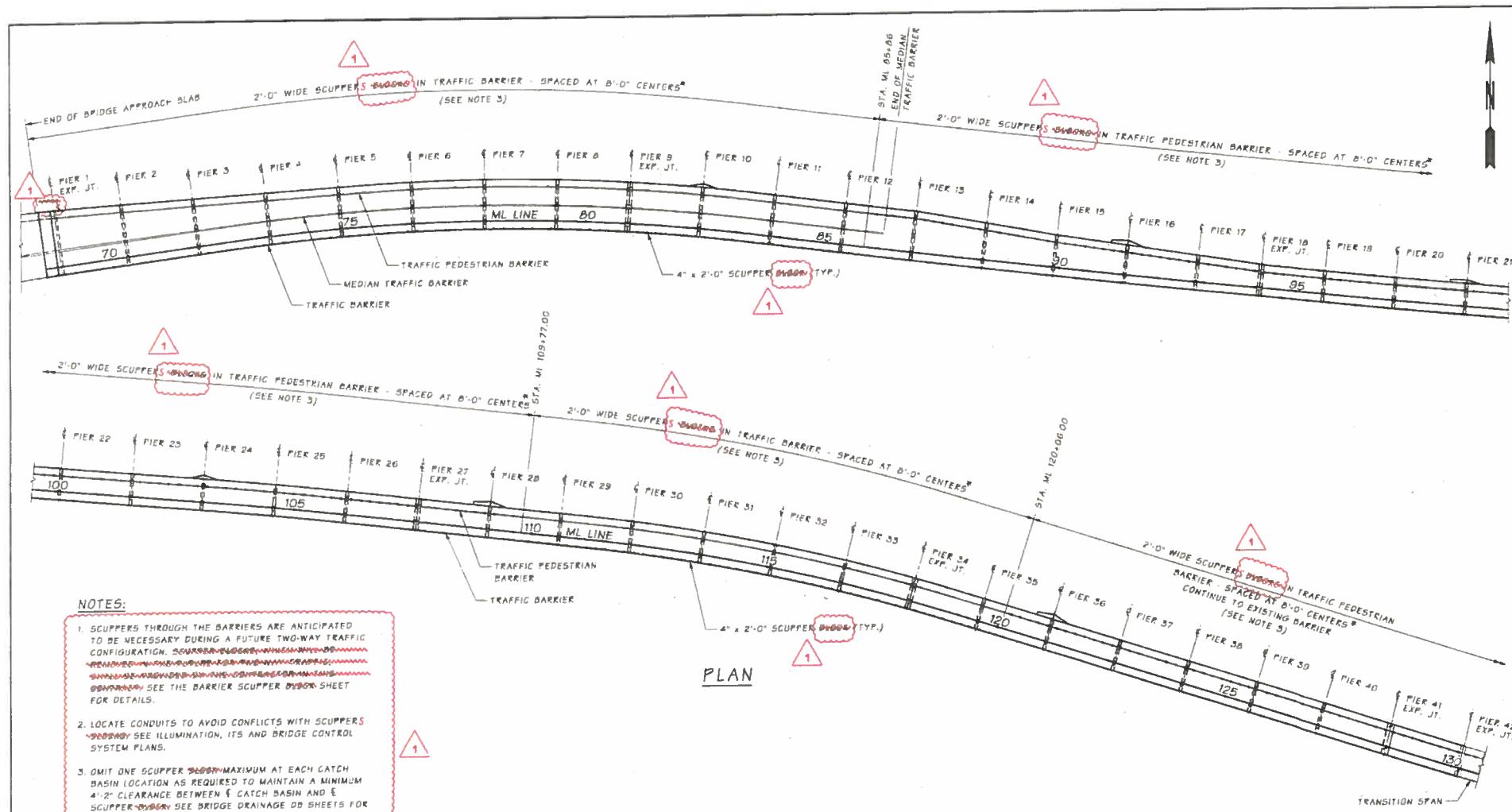
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Reviewer _____
Designed By _____
Checked By _____
Detailed By _____
Bridge Project Engr. _____
Prelin. Plan By 12/11/01 A CORR1 - DELETE FACILITY M PW OGK
Architect/Specialist DATE REVISION BY APPD
Schematic 24-12-01



Washington State
Department of Transportation
**PARSONS
BRINCKERHOFF** Parsons Brinckerhoff
Engineering Consulting Group

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WABN STRUCTURAL SHEET INDEX 5

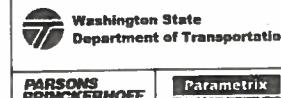
GENERAL SHEET NO.
1BA05
SHEET 62
of
157
157
SHEET



Bridge Design Engg.	05/12	PW Program Design-Bid-Build Contract, WASH02.0, Contract Document 02.05, Contract Plan 02.02, As-Built/M4-B4 B470.C001.PA.M4.B4.dwg	REVISION 07 18 WASH JOB NUMBER 15A012	FED. AID PROJ. NO. STATE SHRT NO. MILE MARKS	1479 1797
Supervisor	06/12				
Designed By	AKERSON, B.				
Checked By	CHEN, G.				
Delivered By	YPLEL, M.				
Bridge Project Engg.					
Project Plan By	12/11/12	A CORR1 - DELETE FACILITY M	RE-DCK		
Architect/Specifier					
Permitting					



3-16-1b



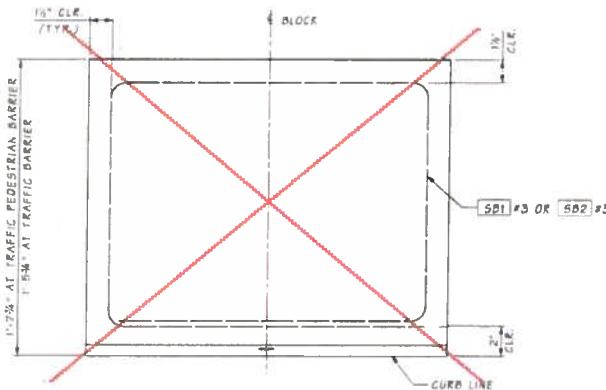
PARSONS
BRINCKERHOFF

Parametric

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BARRIER PLAN

BA543
SHEET NO.
1479
OF
1797
IMENTS



SN 520 FILE NO 7051 SHIFT BA546
Property of Ward's

ELEVATION - TRAFFIC PEDESTRIAN
 BARRIER AT EXPANSION JOINT
SHOWN AT SCUPPER LOCATION

SHOWN AT SCUPPER LOCATIONS

Bridge Design Engr		PFV Program Design-Bld-Belt/Contract, 080925 WASHBLES Contract Document#18, Contract Plan/2.23 R3, As-built/As-Bld/Bld/Rev/P1482, CM03, P.R.A., 840, R1.dgn									
Supervisor	SDTT, P.										
Designed By	AKESSON, B.										
Checked By	CHEN, G.					18		WASH			
Deletred By	VYPLEL, M.										
Bridge Prepara Engr		JOB NUMBER 15A012									
Permit, Plan #	12711-1	A CORR1 - DELETE FACILITY M		BA		BGK					
Architect/Residential		DATE	REVISION	BY APPS							
WASHBLES											



3-16-16

 Washington State
Department of Transportation

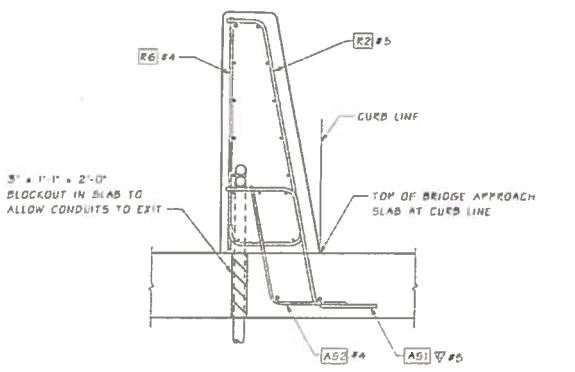
**PARSONS
BRINCKERHOFF**

Parametrix

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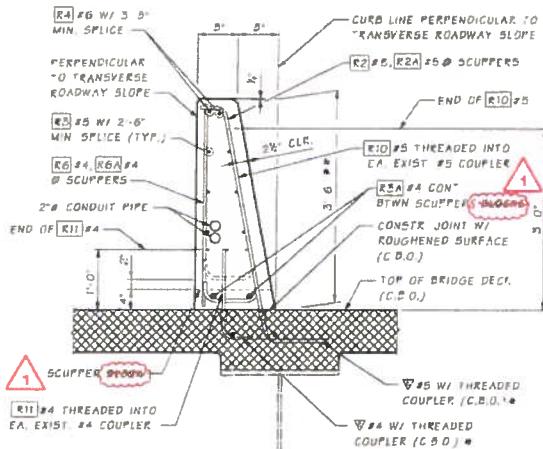
**TRAFFIC PEDESTRIAN BARRIER
DETAILS 2 OF 4**

SEARCH
SHEET
NO
BA546



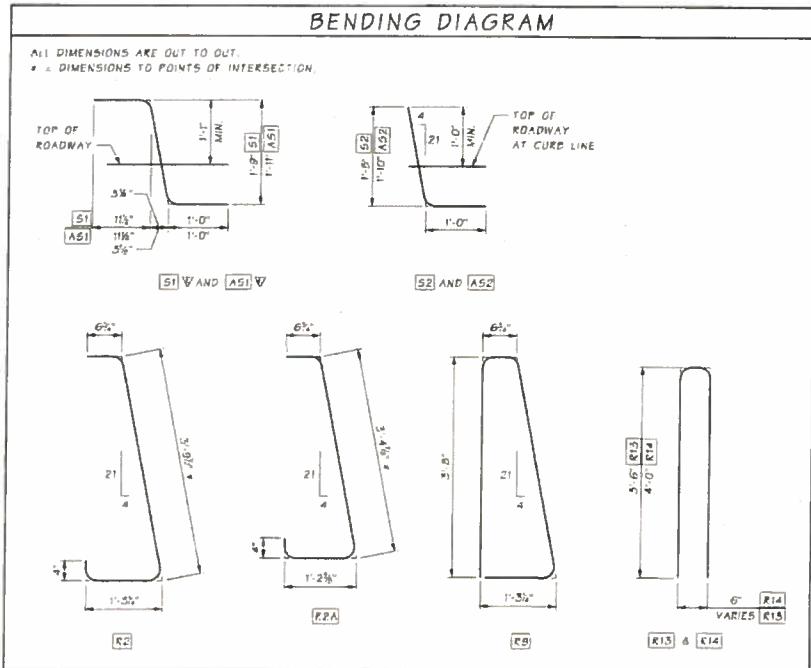
SECTION A BRIDGE APPROACH SLAB

FOR DETAILS NOT SHOWN, SEE SECTION A
"WI SCUPPER" ON BR. SHT. DA546



SECTION B
ON EX STING BA54B
GEORGE REED

- * CONTRACTOR SHALL FIELD VERIFY SIZE, LOCATION, AND SPACING OF EXISTING COUPLERS PRIOR TO BARRIER REBAR FABRICATION, AND REPORT DISCREPANCIES TO THE ENGINEER
- * HEIGHT MAY VARY IF REQUIRED TO PROVIDE A PROFILE PLEASING TO THE EYE



NOTE.

BAR DIMENSIONS SHOWN ARE FOR TYPICAL TRAFFIC PEDESTRIAN BARRIER SECTION
VARY BAR DIMENSIONS AS NECESSARY AT SPAN A1 & TRANSITION SPAN

Bridge Design Engg.	PWV I Prog Desgn-Bldg Subctrct. 088035 WASHB-8 Contract Document#2.08.82 Contract Plan#2.08.82 As-built vs Bldg Dwg#(v) 11483, C087, P3, A4, 547, R1 dg
Supervisor	BOTT, P
Designed By	AKESSON, B
Checked By	CHEN, G
Submitted By	VYPLEL, M
Bridge Projects Engg.	
Printed Plan By	12/1/12 A COB#1 DELETE FACILITY M BA GOK APPS
Architect/Engineer	BATE REVISION BY APPS



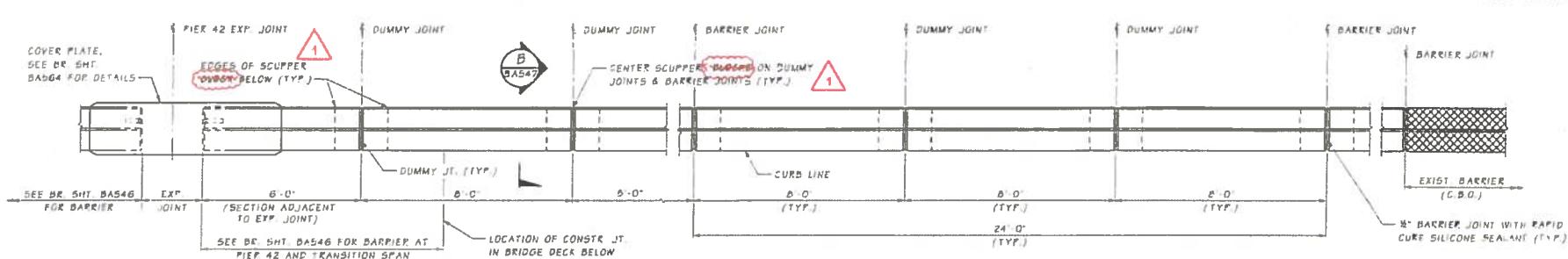
5-16-16



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TRAFFIC PEDESTRIAN BARRIER
DETAILS 3 OF 4

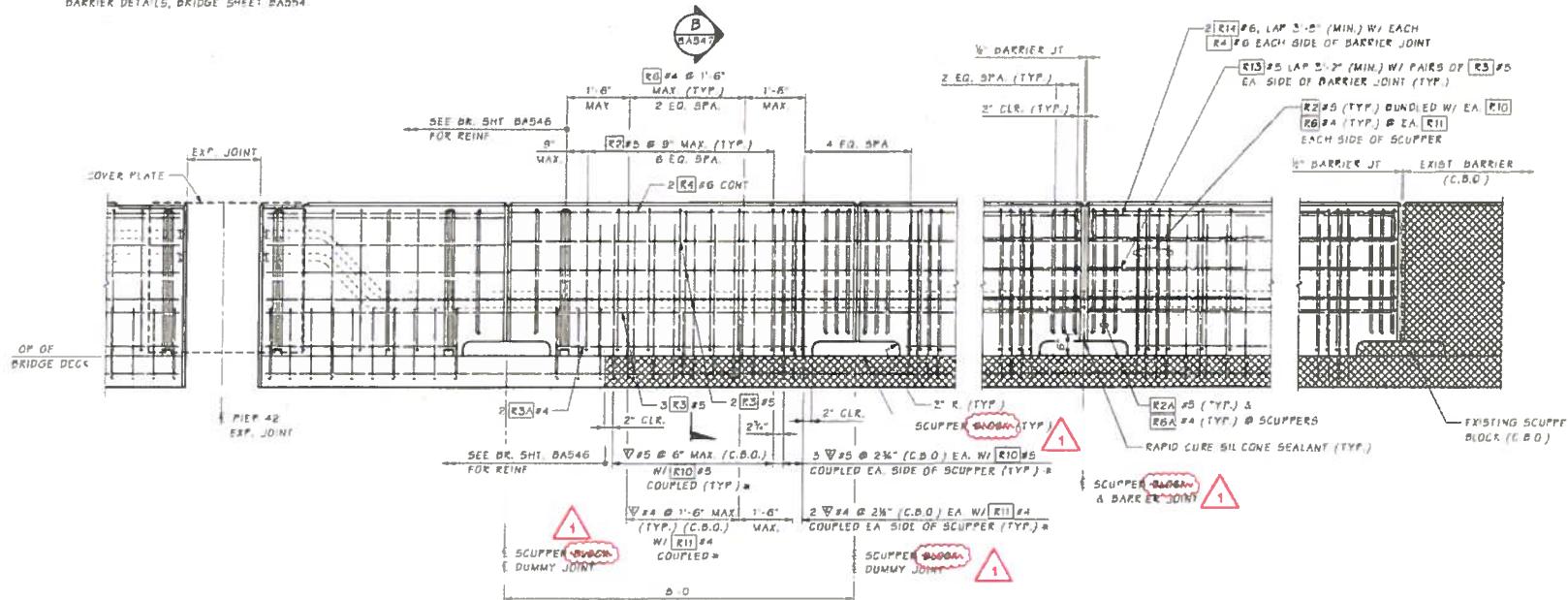
BOOK SHEET NO
A547
SHEET
1483
DP
1797
JUN 1959



PLAN - TRAFFIC PEDESTRIAN BARRIER

BARRIER CONTINUOUS BETWEEN ROADWAY EXPANSION JOINTS
CONSTRUCTION JOINTS WITH SHEAR KEYS ARE PERMISSIBLE AT DUMMY JOINT LOCATIONS
FORM JOINTS BETWEEN DUMMY JOINTS SHALL NOT BE PERMITTED.

• FOR DUMMY JOINT DETAILS, SEE MEDIAN BARRIER DETAILS, BRIDGE SHEET 8A54



ELEVATION - TRAFFIC PEDESTRIAN
 BARRIER ON TRANSITION SPAN

* CONTRACTOR SHALL FIELD VERIFY SIZE, LOCATION AND SPACING OF EXISTING COUPLERS PRIOR TO BARRIER REBAR FABRICATION AND REPORT DISCREPANCIES TO THE ENGINEER.

Bridge Design Sgnr.		PWV Program Design-6d-Build Contract, 088620, WASHREC 0, Contract Document#18, Contract Panel# 82, As-built Submittal DS90109-1404, CR02, FS, FA, SA, RI, sign							
Supervisor	BOTTI, P.	PROJECT NO.		FED. AID PROJ. NO.		SHEET NO.		TOTAL SHEETS	
Designed By	AKERSON, B.								
Checked By	CHEN, G.	18		WASH					
Described By	VIPPLE, M.			JOB NUMBER					
Bridge Projects Engr.				15A012					
Printed Plan By	12/17/11			CONSTRUCTION - DELETE FACILITY M		SA, GCR		14/150 179?	





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Department of Transportation

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