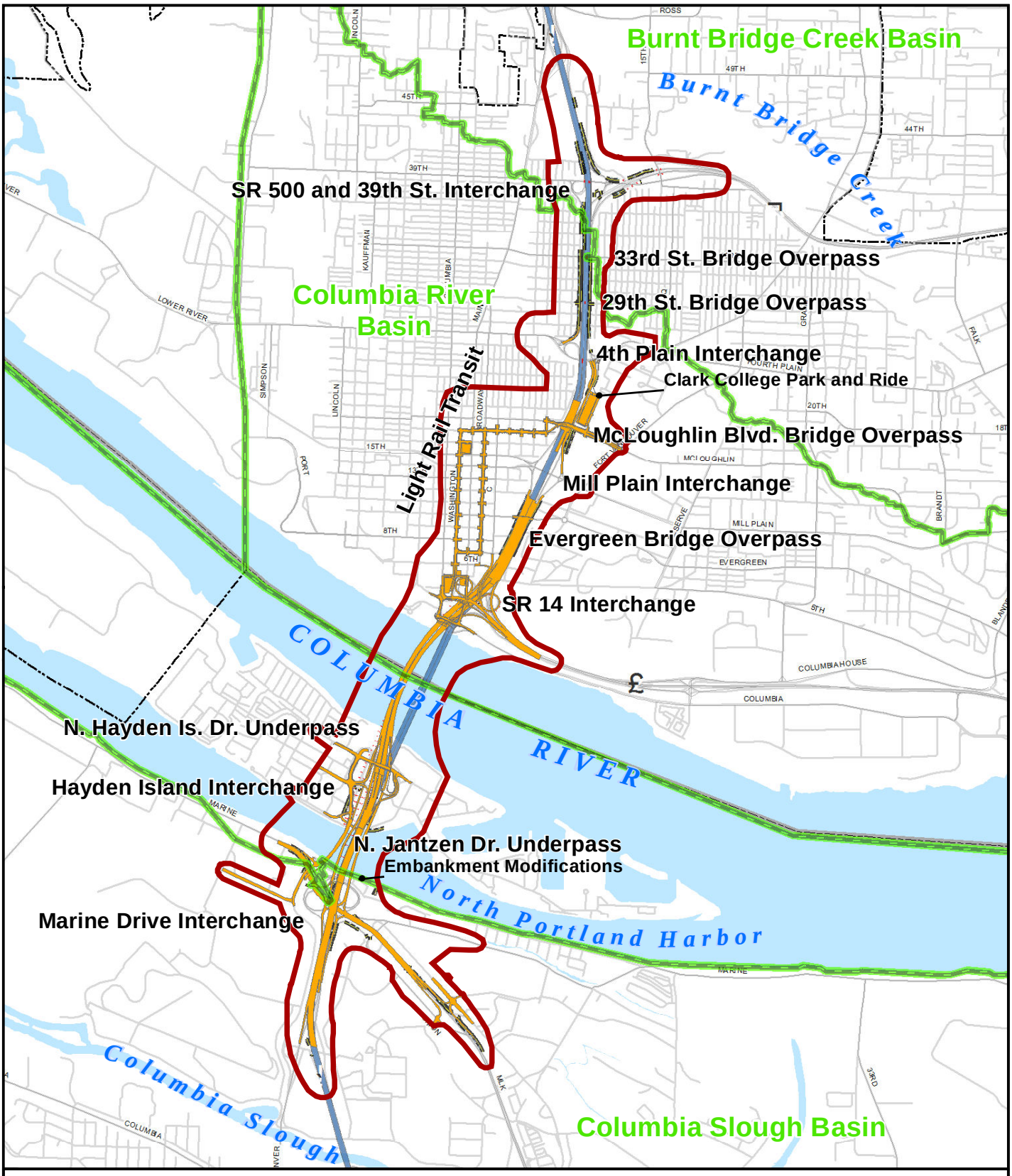


N
W E
S
0 0.25 0.5
Miles

Primary API
Drainage Basin
ICP Footprint

Figure 1
Primary Area of Potential Impact and ICP Footprint

Columbia River CROSSING

Date: 11/12/2012 Path: P:\GIS\CRC\GIS\PH_404_Permits\WaterQ_ProjectElements_API.mxd

N
W E
S

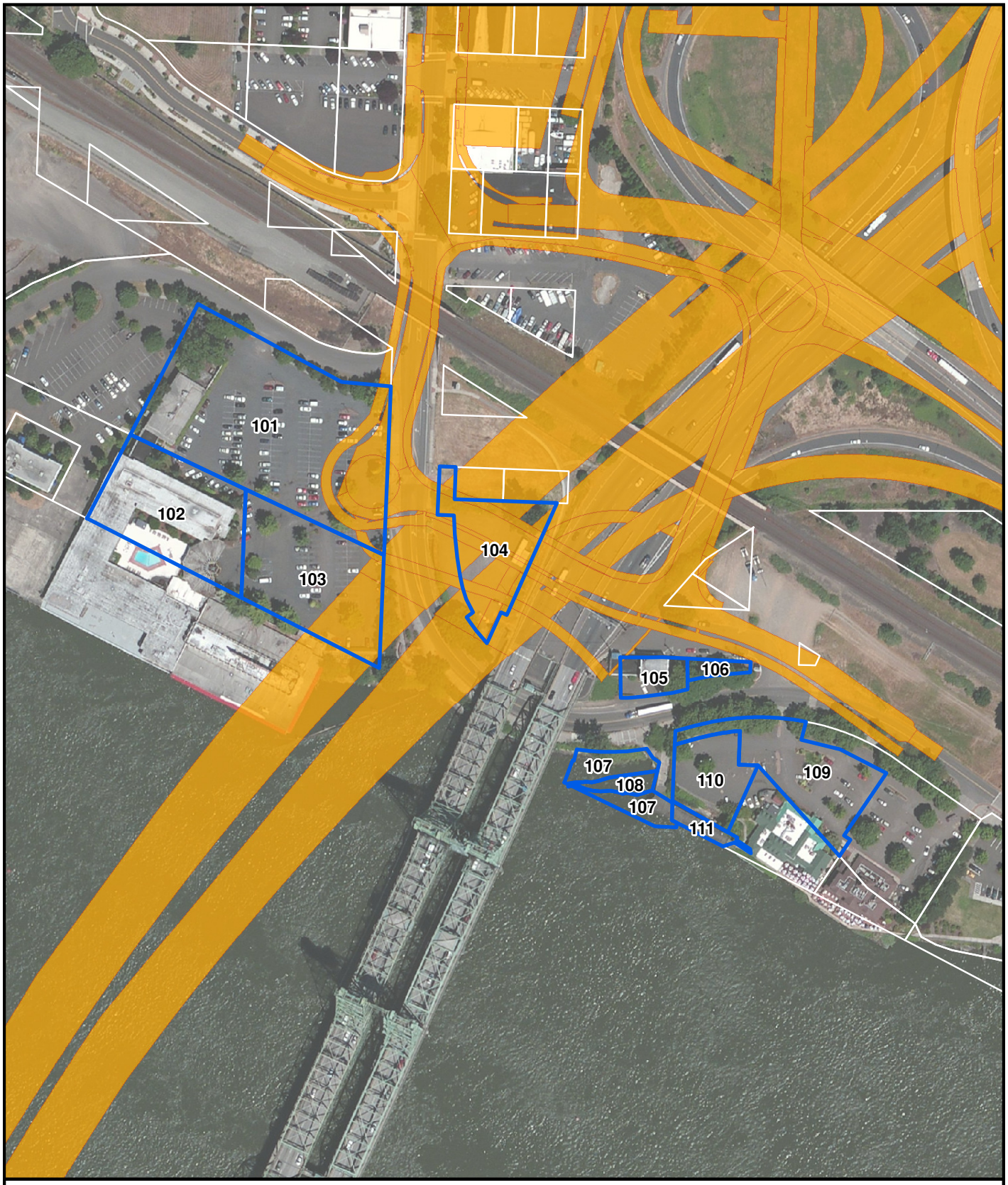
0 0.06 0.12
Miles

Taxlots with Direct or Adjacent Impacts
Taxlot Boundary
ICP Project Footprint

Figure 1
Oregon Taxlots Directly Impacted and Adjacent to Direct Impacts of In-Water Work

Columbia River CROSSING

Date: 11/26/2012 Path: P:\GIS\CRC\GIS\PH_404_Permits\Ph_404_Oregon_InWater.mxd



N
W E
S

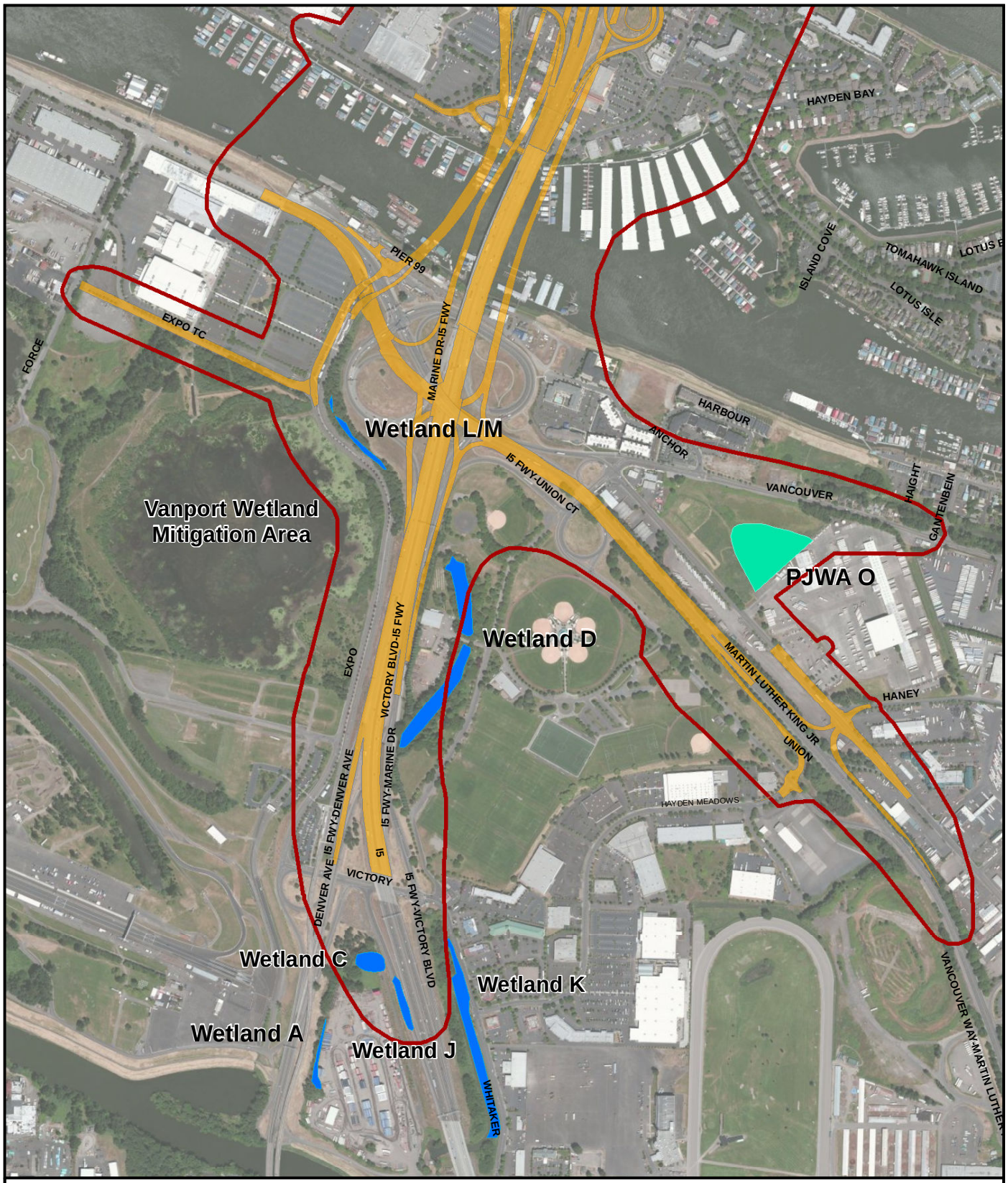
0 0.02 0.04
Miles

Taxlots with Direct or Adjacent Impacts
Taxlot Boundary
ICP Project Footprint

Figure 2
Washington Taxlots Directly Impacted and Adjacent to Direct Impacts of In-Water Work

Columbia River CROSSING

Date: 11/26/2012 Path: P:\GIS\CRC\GIS\PH_404_Permits\Ph_404_WA_InWater.mxd



ICP Project Footprint

Primary API

Wetland Areas

Potentially Jurisdictional Water Area (PJWA)

N W E S

0 375 750
Feet

Figure 2
Wetlands Within Oregon

Columbia River CROSSING

Source: Locally Identified Wetlands = Clark Co. and Metro; Project Delineated Wetlands = Columbia River Crossing (Parametrix)

Date: 11/12/2012 Path: P:\GIS\CRC\GIS\PH_404_Permits\Wetlands_404.mxd

ICP Project Footprint

Primary API

Wetland Areas

Potentially Jurisdictional Water Area (PJWA)

N
W E
S

0 375 750
Feet

Figure 3
Wetlands Within Washington

Columbia River CROSSING

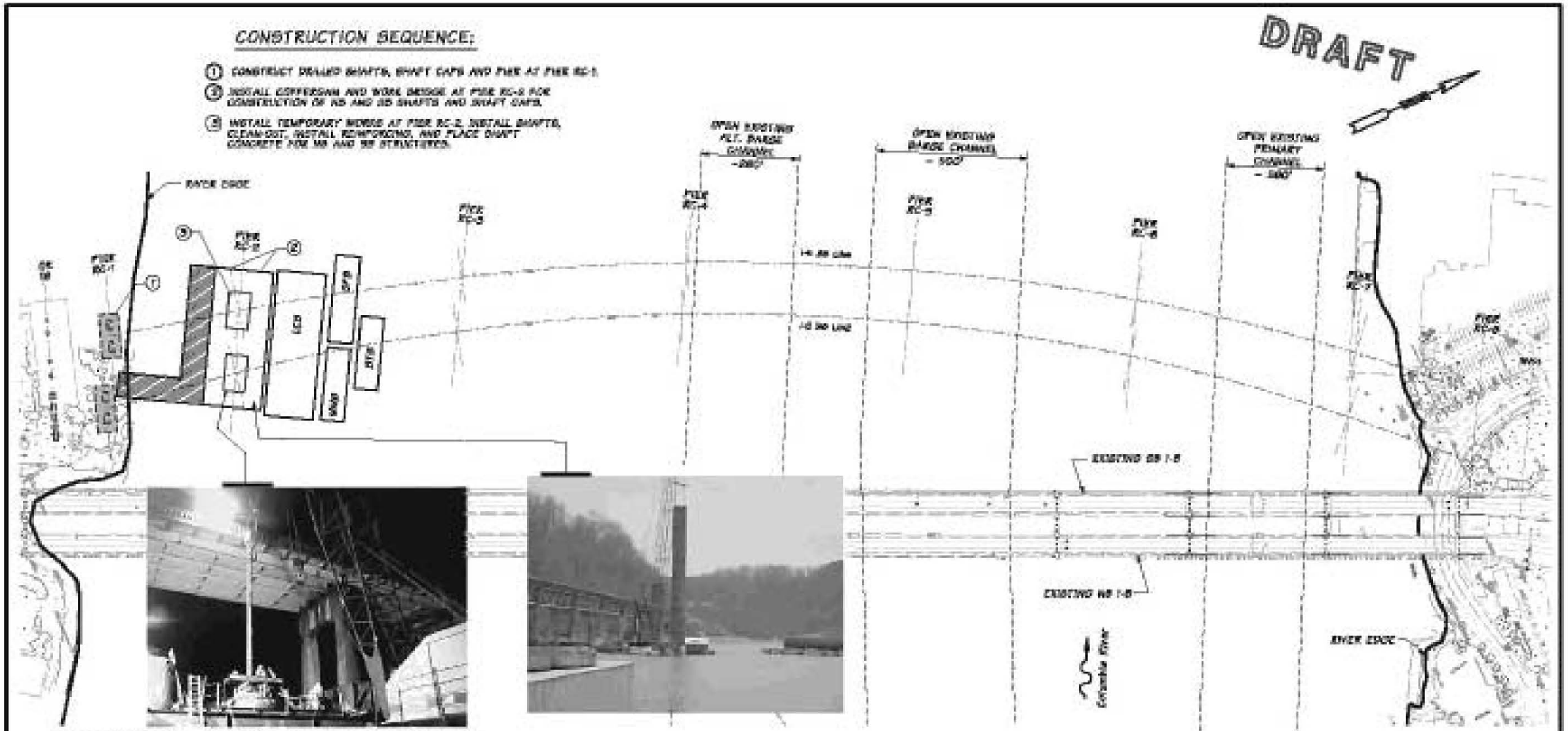
Source: Locally Identified Wetlands = Clark Co. and Metro; Project Delineated Wetlands = Columbia River Crossing (Parametrix)

Date: 11/12/2012 Path: P:\GIS\CRC\GIS\PH_404_Permits\Wetlands_404.mxd

CONSTRUCTION SEQUENCE:

1. CONSTRUCT DRILLED SHAFTS, SHAFT CAPS AND PIER AT PIER RC-1.
2. INSTALL COFFERDAM AND WORK BRIDGE AT PIER RC-2 FOR CONSTRUCTION OF NB AND SB SHAFTS AND SHAFT CAPS.
3. INSTALL TEMPORARY MOREE AT PIER RC-2, INSTALL SHAFTS, CLEAN-OUT, INSTALL REINFORCING, AND PLACE SHAFT CONCRETE FOR NB AND SB STRUCTURES.

DRAFT



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

SCB = SMALL CRANE BARGE, 110' LONG x 52' WIDE x 10' DEPTH, ~ 160 TON CAPACITY
SMB = SMALL MATERIAL BARGE, 110' LONG x 50' WIDE x 8' DEPTH
MCB = MEDIUM CRANE BARGE, 190' LONG x 70' WIDE x 12.0' DEPTH, ~ 300 TON CAPACITY
MMB = MEDIUM MATERIAL BARGE, 180' LONG x 48' WIDE x 9.0' DEPTH
LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 30' DEPTH, ~ 700 TON CAPACITY
LMB = LARGE MATERIAL BARGE, 195' LONG x 60' WIDE x 12.0' DEPTH
SPB = SPOILS BARGE, 150' LONG x 50' WIDE x 10' DEPTH
CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME
BTB = BARGE TANK BARGE, 100' LONG x 40' WIDE x 9.0' DEPTH

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NOT FOR CONSTRUCTION
SEPT. 2012

FHASE 1

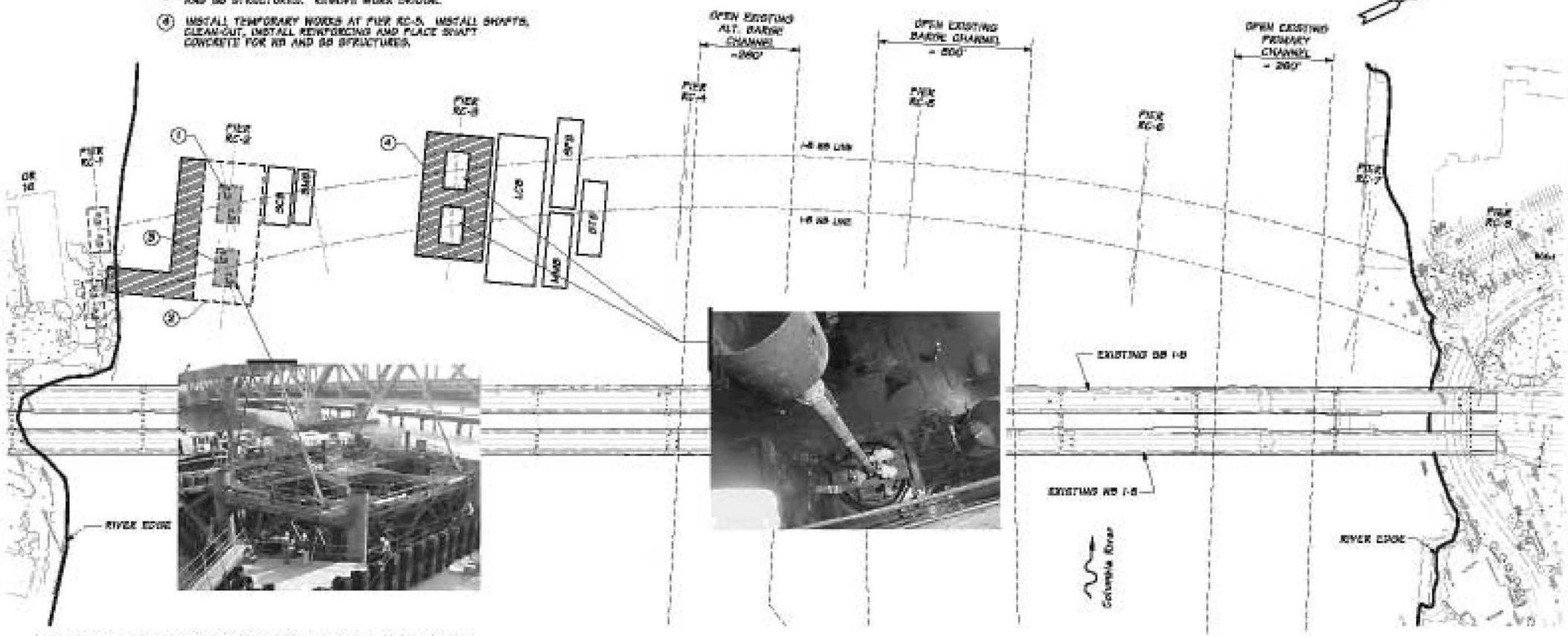
COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE

CONCEPTUAL DESIGN
Columbia River CROSSING

CONSTRUCTION SEQUENCE:

1. CONSTRUCT NB AND SB SHAFT CAPS AT PIER RC-2.
2. REMOVE COFFERDAM AT PIER RC-2.
3. CONSTRUCT COLUMNS AND PIER CAP AT PIER RC-2 FOR NB AND SB STRUCTURES. REMOVE WORK BRIDGE.
4. INSTALL TEMPORARY WORKS AT PIER RC-5. INSTALL SHAFTS, CLEAN-OUT, INSTALL REINFORCING AND PLACE SHAFT CONCRETE FOR NB AND SB STRUCTURES.

DRAFT



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

SCB = SMALL CRANE BARGE, 136' LONG x 62' WIDE x 10' DEPTH, ~ 180 TON CAPACITY
SMB = SMALL MATERIAL BARGE, 110' LONG x 50' WIDE x 8' DEPTH
MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 500 TON CAPACITY
MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH
LCB = LARGE CRANE BARGE, 500' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 15.5' DEPTH
SPB = SPUD BARGE, 180' LONG x 60' WIDE x 16' DEPTH
CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME
BTB = BARGE TANK BARGE, 150' LONG x 45' WIDE x 9.5' DEPTH

CONCEPTUAL

NOT FOR CONSTRUCTION
SEPT. 2012

PHASE 2

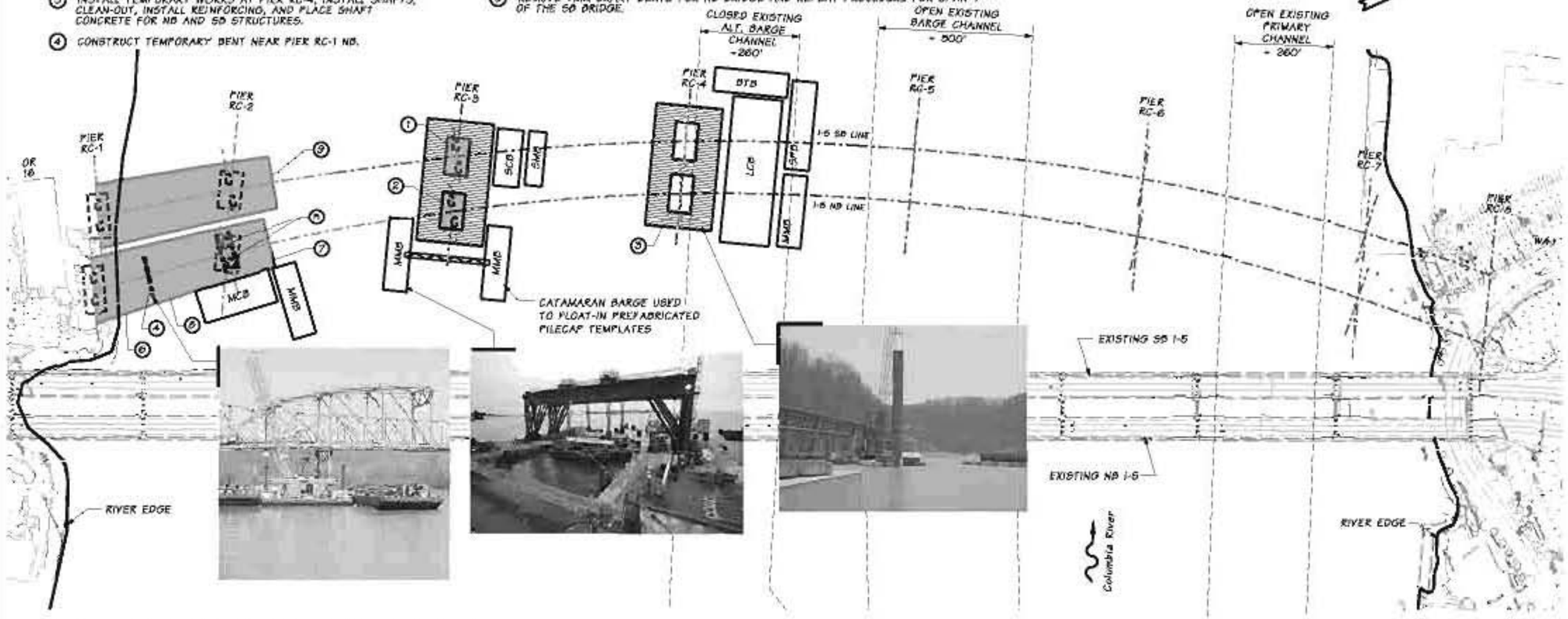
COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE

CONCEPTUAL DESIGN
Columbia River CROSSING

CONSTRUCTION SEQUENCE:

1. FLOAT-IN PREFABRICATED SHAFT CAP AT PIER RC-3. CONSTRUCT NB AND SB SHAFT CAPS.
2. CONSTRUCT COLUMNS AND PIER CAP AT PIER RC-3 FOR NB AND SB STRUCTURES. REMOVE TEMPORARY WORKS.
3. INSTALL TEMPORARY WORKS AT PIER RC-4, INSTALL SHAFTS, CLEAN-OUT, INSTALL REINFORCING, AND PLACE SHAFT CONCRETE FOR NB AND SB STRUCTURES.
4. CONSTRUCT TEMPORARY BENT NEAR PIER RC-1 NB.
5. INSTALL TEMPORARY BENTS ON THE PILE CAP AT EACH SIDE OF PIER RC-2 NB.
6. ERECT THE NB TRUSSES FROM PIER RC-1 ACROSS THE TEMPORARY BENT (5 TOTAL PANELS).
7. ERECT THE NB TRUSSES AT PIER RC-2 USING BALANCED CANTILEVER METHODS ACROSS THE TEMPORARY BENTS (4 PANELS BACK STATION AND 3 PANELS AHEAD STATION).
8. CLOSE THE NB TRUSSES IN SPAN 1.
9. REMOVE TEMPORARY BENTS FOR NB BRIDGE AND REPEAT PROCEDURE FOR SPAN 1 OF THE SB BRIDGE.

DRAFT



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 160 TON CAPACITY
SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH
LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 15.5' DEPTH
SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME
BTB = BAKER TANK BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH

CONCEPTUAL
NOT FOR CONSTRUCTION
SEPT. 2012

PHASE 3

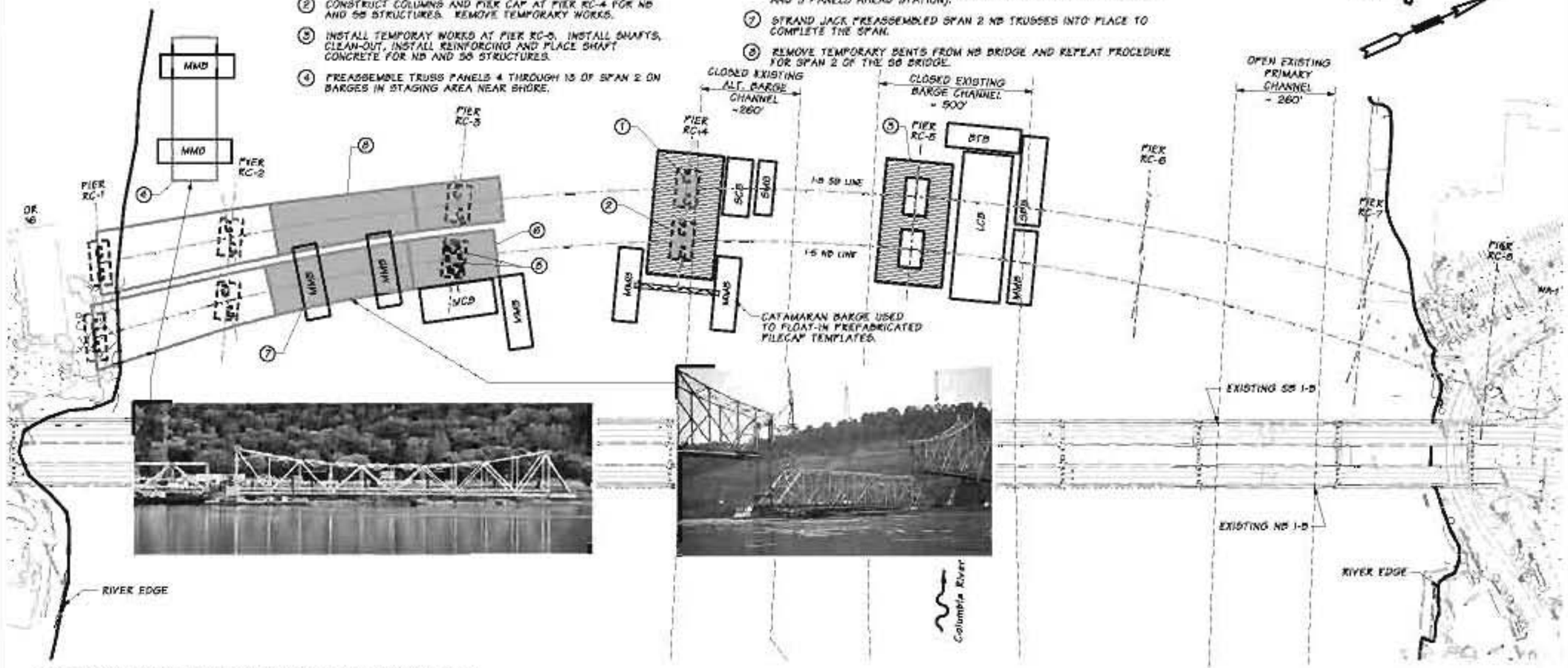
COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE

CONCEPTUAL DESIGN
Columbia River CROSSING

CONSTRUCTION SEQUENCE:

1. FLOAT-IN PREFABRICATED SHAFT CAP AT PIER RC-4. CONSTRUCT NB AND SB SHAFT CAPS.
2. CONSTRUCT COLUMNS AND PIER CAP AT PIER RC-4 FOR NB AND SB STRUCTURES. REMOVE TEMPORARY WORKS.
3. INSTALL TEMPORAY WORKS AT PIER RC-5. INSTALL SHAFTS, CLEAN-OUT, INSTALL REINFORCING AND PLACE SHAFT CONCRETE FOR NB AND SB STRUCTURES.
4. PREASSEMBLE TRUSS PANELS 4 THROUGH 13 OF SPAN 2 ON BARGES IN STAGING AREA NEAR SHORE.
5. INSTALL TEMPORARY BENTS ON THE SHAFT CAP AT EACH SIDE OF PIER RC-5 NB.
6. ERECT THE NB TRUSSES AT PIER RC-5 USING BALANCED CANTILEVER METHODS ACROSS THE TEMPORARY BENTS (3 PANELS BACK STATION AND 3 PANELS AHEAD STATION).
7. STRAND JACK PREASSEMBLED SPAN 2 NB TRUSSES INTO PLACE TO COMPLETE THE SPAN.
8. REMOVE TEMPORARY BENTS FROM NB BRIDGE AND REPEAT PROCEDURE FOR SPAN 2 OF THE SB BRIDGE.

DRAFT



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH
LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
SPB = SPOILS BARGE, 160' LONG x 50' WIDE x 16' DEPTH
CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME
BTB = BAKER TANK BARGE, 190' LONG x 48' WIDE x 9.5' DEPTH

CONCEPTUAL

NOT FOR CONSTRUCTION
SEPT. 2012

PHASE 4

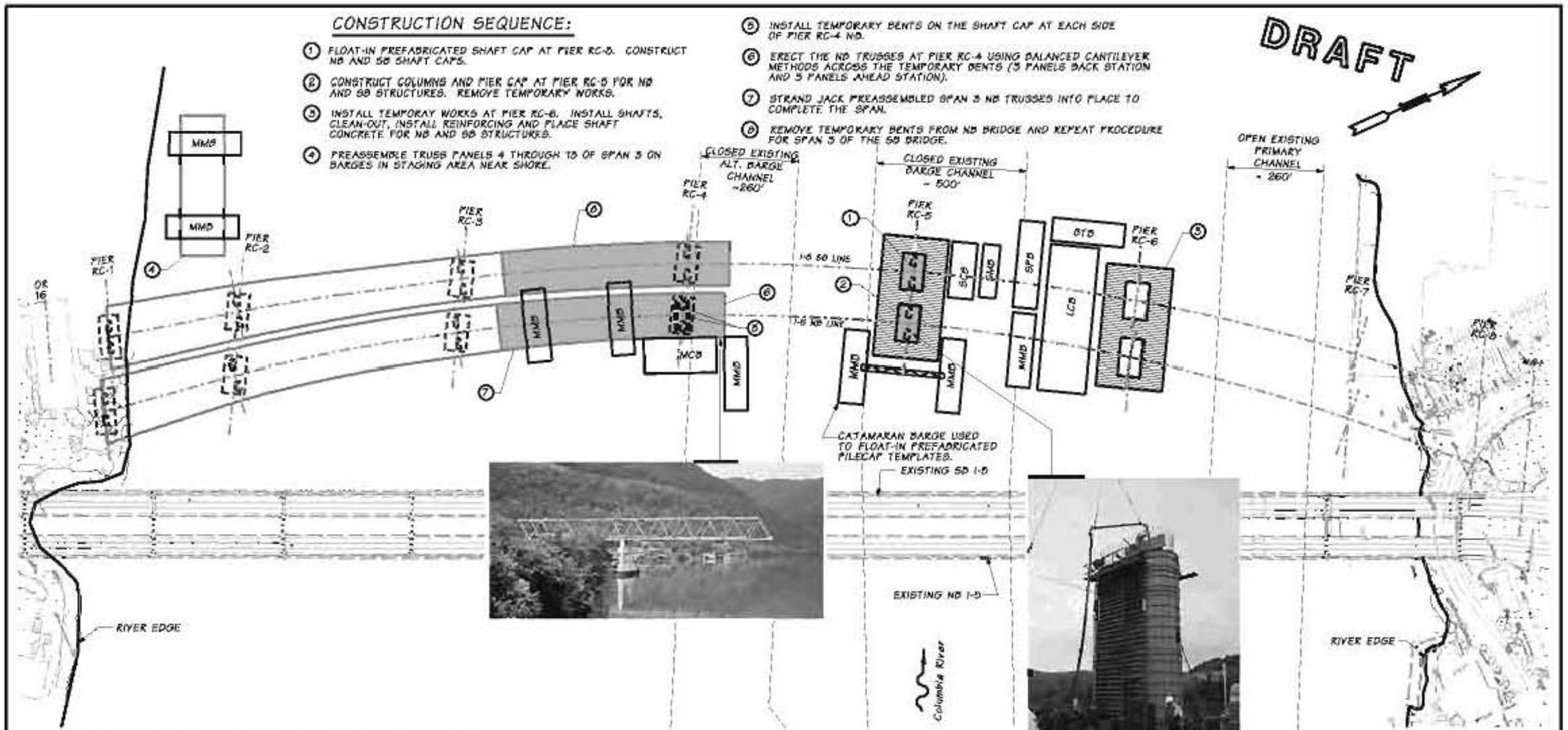
COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE

CONCEPTUAL DESIGN
Columbia River CROSSING

CONSTRUCTION SEQUENCE:

1. FLOAT-IN PREFABRICATED SHAFT CAP AT PIER RC-5. CONSTRUCT NB AND SB SHAFT CAPS.
2. CONSTRUCT COLUMNS AND PIER CAP AT PIER RC-5 FOR NB AND SB STRUCTURES. REMOVE TEMPORARY WORKS.
3. INSTALL TEMPORAY WORKS AT PIER RC-6. INSTALL SHAFTS, CLEAN-OUT, INSTALL REINFORCING AND PLACE SHAFT CONCRETE FOR NB AND SB STRUCTURES.
4. PREASSEMBLE TRUSS PANELS 4 THROUGH 13 OF SPAN 3 ON BARGES IN STAGING AREA NEAR SHORE.
5. INSTALL TEMPORARY BENTS ON THE SHAFT CAP AT EACH SIDE OF PIER RC-4 NB.
6. ERECT THE NB TRUSSES AT PIER RC-4 USING BALANCED CANTILEVER METHODS ACROSS THE TEMPORARY BENTS (3 PANELS BACK STATION AND 3 PANELS AHEAD STATION).
7. STRAND JACK PREASSEMBLED SPAN 3 NB TRUSSES INTO PLACE TO COMPLETE THE SPAN.
8. REMOVE TEMPORARY BENTS FROM NB BRIDGE AND REPEAT PROCEDURE FOR SPAN 3 OF THE SB BRIDGE.

DRAFT



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH
LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME
BTB = BAKER TANK BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH

CONCEPTUAL
NOT FOR CONSTRUCTION
SEPT. 2012

PHASE 5

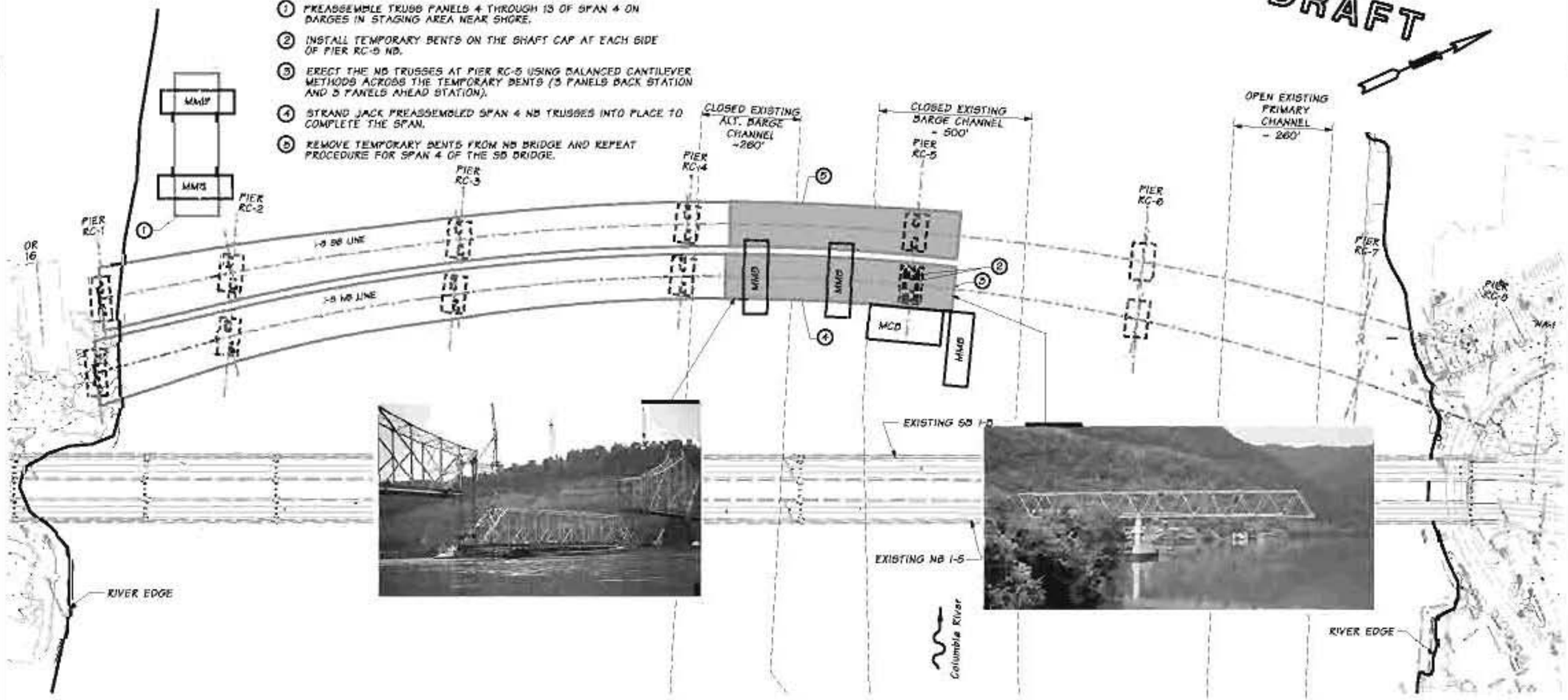
COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE

CONCEPTUAL DESIGN
Columbia River CROSSING

CONSTRUCTION SEQUENCE:

1. PREASSEMBLE TRUSS PANELS 4 THROUGH 13 OF SPAN 4 ON BARGES IN STAGING AREA NEAR SHORE.
2. INSTALL TEMPORARY BENTS ON THE SHAFT CAP AT EACH SIDE OF PIER RC-5 NB.
3. ERECT THE NB TRUSSES AT PIER RC-5 USING BALANCED CANTILEVER METHODS ACROSS THE TEMPORARY BENTS (3 PANELS BACK STATION AND 3 PANELS AHEAD STATION).
4. STRAND JACK PREASSEMBLED SPAN 4 NB TRUSSES INTO PLACE TO COMPLETE THE SPAN.
5. REMOVE TEMPORARY BENTS FROM NB BRIDGE AND REPEAT PROCEDURE FOR SPAN 4 OF THE SB BRIDGE.

DRAFT



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH
LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME
BTB = BAKER TANK BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH

CONCEPTUAL
NOT FOR CONSTRUCTION
SEPT. 2012

PHASE 6

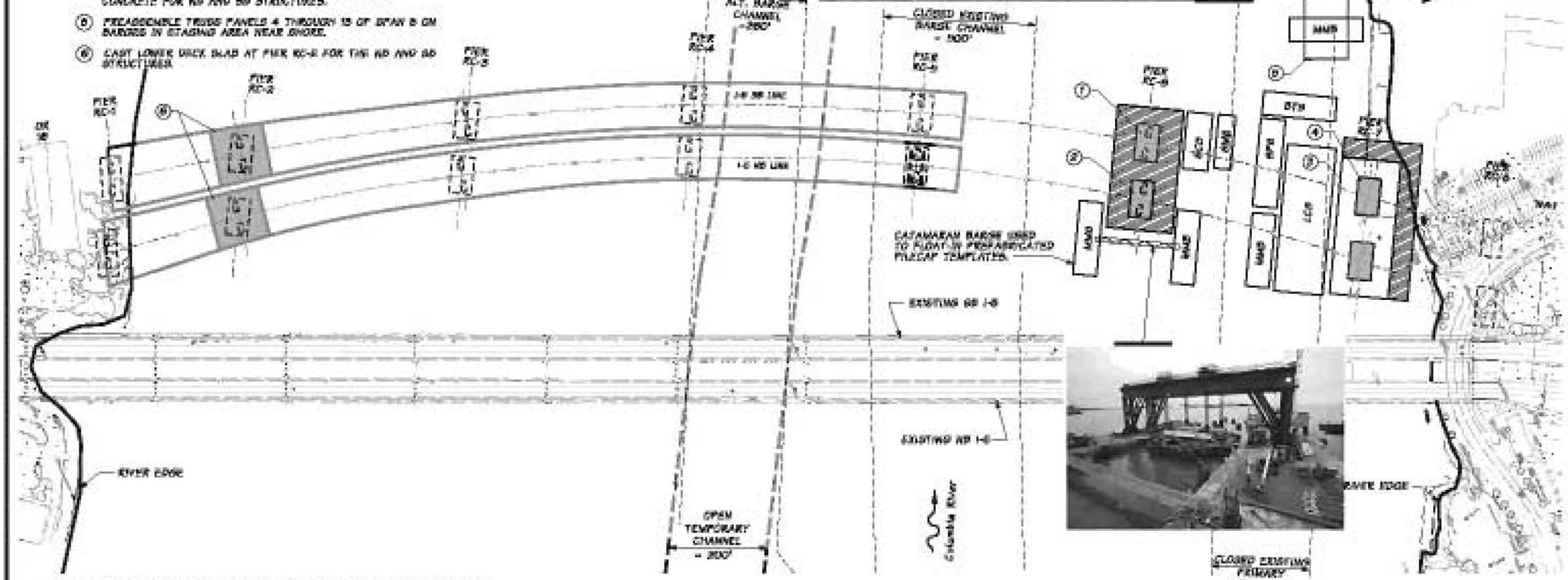
COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE

CONCEPTUAL DESIGN
Columbia River CROSSING

8x35x7 AWBFILE18
8/DATE8

CONSTRUCTION SEQUENCE:

1. FLOAT-IN PREFABRICATED SHAFT CAP AT PIER RC-6. CONSTRUCT NB AND SB SHAFT CAPS.
2. CONSTRUCT COLUMNS AND PIER CAP AT PIER RC-6 FOR NB AND SB STRUCTURES. REMOVE TEMPORARY WORKS.
3. INSTALL COFFERDAM AND WORK BRIDGE AT PIER RC-7 FOR CONSTRUCTION OF NB AND SB SHAFTS AND SHAFT CAPS.
4. INSTALL TEMPORARY WORKS AT PIER RC-7. INSTALL SHAFTS, CLEAN-OUT, INSTALL REINFORCING AND PLACE SHAFT CONCRETE FOR NB AND SB STRUCTURES.
5. PREASSEMBLE TRUSS PANELS 4 THROUGH 15 OF SPAN 5 ON BARGES IN STAGING AREA NEAR SHORE.
6. CAST LOWER DECK SLAB AT PIER RC-6 FOR THE NB AND SB STRUCTURES.



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

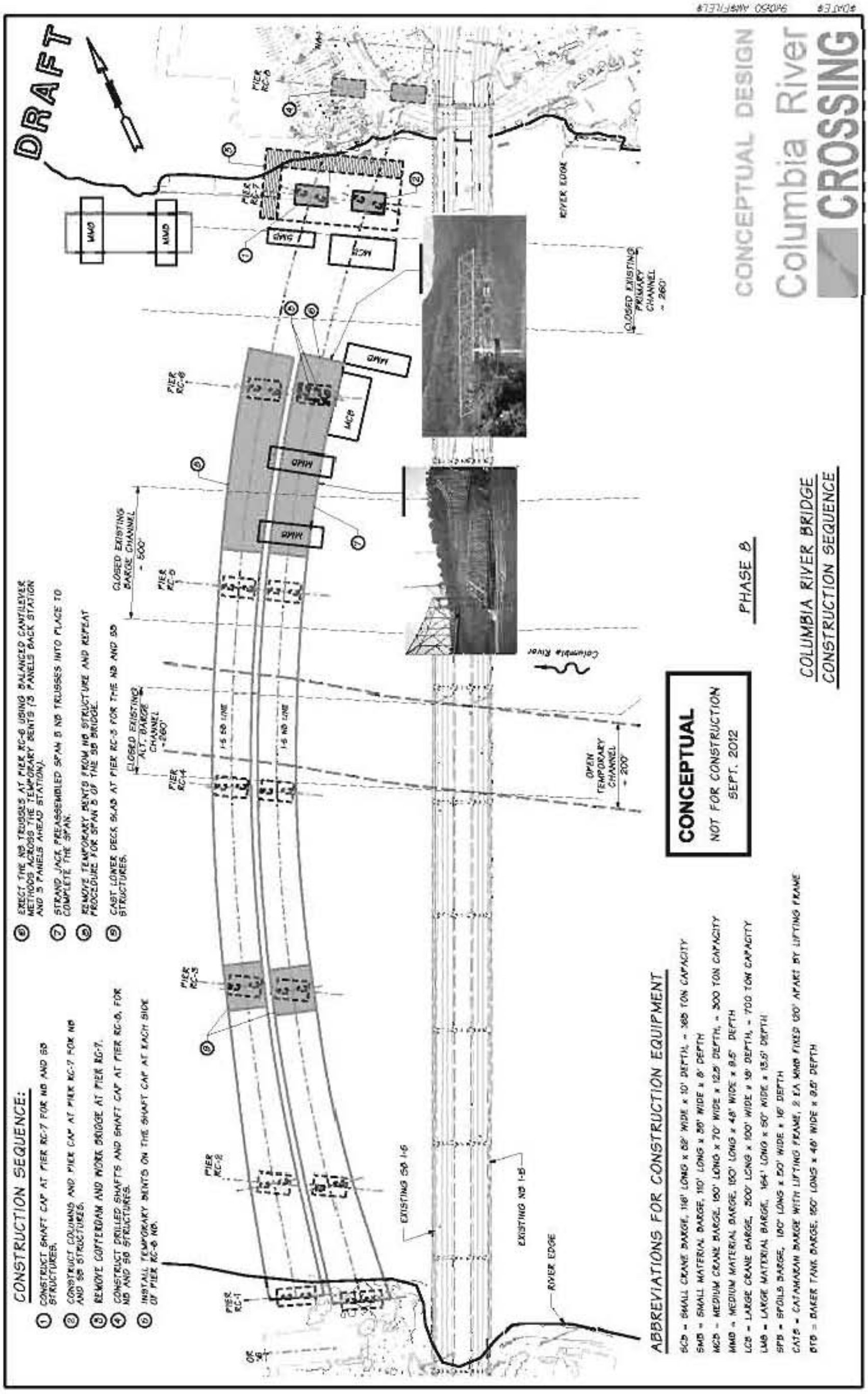
SCB – SMALL CRANE BARGE, 140' LONG x 50' WIDE x 10' DEPTH, – 160 TON CAPACITY
SMB – SMALL MATERIAL BARGE, 110' LONG x 30' WIDE x 8' DEPTH
MCB – MEDIUM CRANE BARGE, 180' LONG x 70' WIDE x 10.5' DEPTH, – 500 TON CAPACITY
MMB – MEDIUM MATERIAL BARGE, 200' LONG x 48' WIDE x 9.5' DEPTH
LCB – LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, – 700 TON CAPACITY
LMB – LARGE MATERIAL BARGE, 184' LONG x 50' WIDE x 10.5' DEPTH
SPB – SPOILS BARGE, 180' LONG x 60' WIDE x 16' DEPTH
CATB – CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 180' APART BY LIFTING FRAME
BTB – BAKER TANK BARGE, 150' LONG x 48' WIDE x 9.0' DEPTH

CONCEPTUAL
NOT FOR CONSTRUCTION
SEPT. 2012

PHASE 7

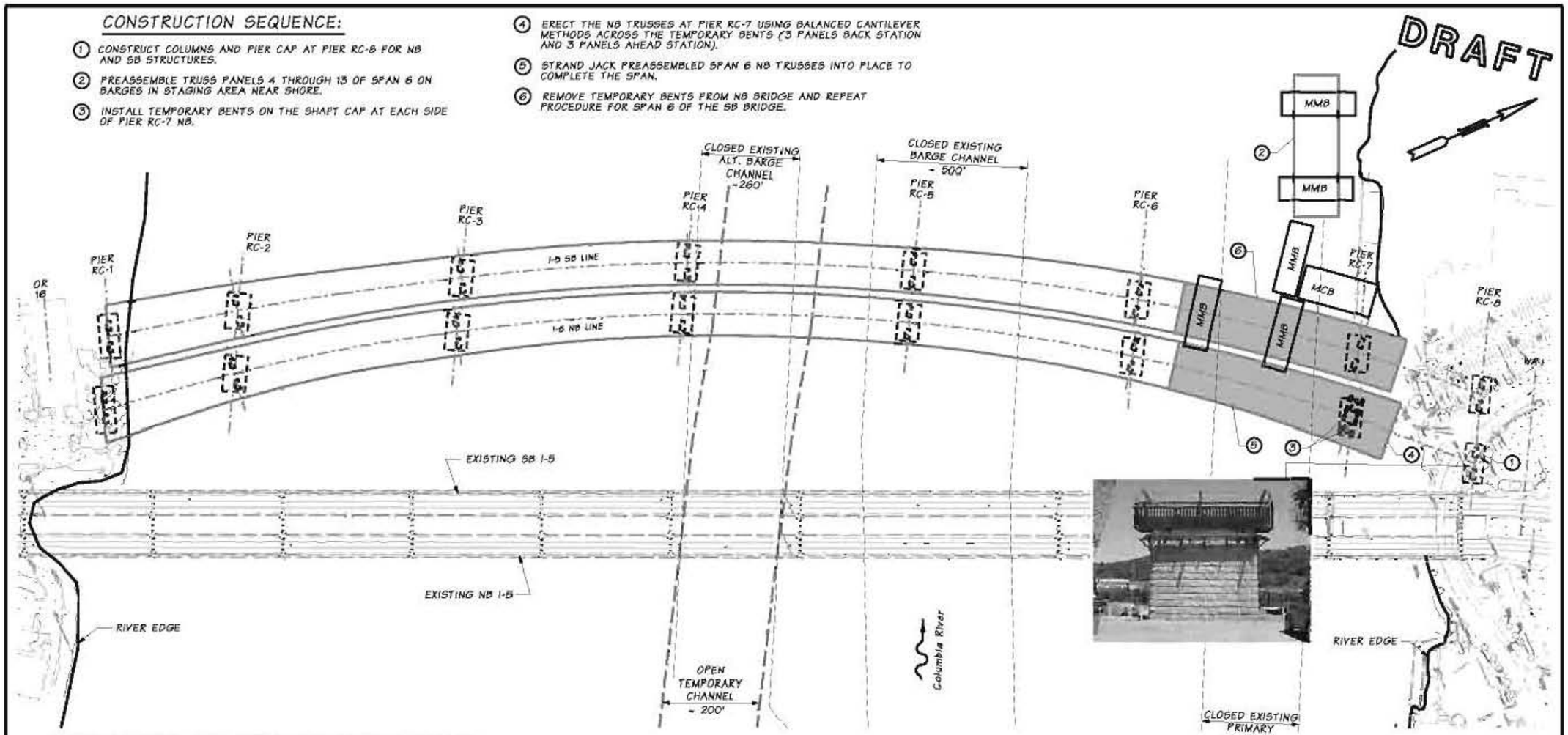
COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE

CONCEPTUAL DESIGN
Columbia River CROSSING


DRAFT
CONCEPTUAL DESIGN
Columbia River
CROSSING
CONSTRUCTION SEQUENCE:
1 CONSTRUCT SHAFT CAP AT PIER RC-7 FOR NB AND SB STRUCTURES.
2 CONSTRUCT COLUMNS AND PIER CAP AT PIER RC-7 FOR NB AND SB STRUCTURES.
3 REMOVE COFFERDAM AND WORK BRIDGE AT PIER RC-7.
4 CONSTRUCT DRILLED SHAFTS AND SHAFT CAP AT PIER RC-6, FOR NB AND SB STRUCTURES.
5 INSTALL TEMPORARY BENTS ON THE SHAFT CAP AT EACH SIDE OF PIER RC-6 NB.
6 ERECT THE NB TRUSSES AT PIER RC-6 USING BALANCED CANTILEVER METHODS ACROSS THE TEMPORARY BENTS (3 PANELS BACK STATION AND 5 PANELS AHEAD STATION).
7 STRAND JACK PREASSEMBLED SPAN 5 NB TRUSSES INTO PLACE TO COMPLETE THE SPAN.
8 REMOVE TEMPORARY BENTS FROM NB STRUCTURE AND REPEAT PROCEDURE FOR SPAN 5 OF THE SB BRIDGE.
9 CAST LOWER DECK SLAB AT PIER RC-5 FOR THE NB AND SB STRUCTURES.
PIER RC-1
PIER RC-2
PIER RC-3
PIER RC-4
PIER RC-5
PIER RC-6
PIER RC-7
PIER RC-8
PIER RC-9
EXISTING SB I-5
EXISTING NB I-5
RIVER EDGE
RIVER EDGE
Columbia River
CLOSED EXISTING BARGE CHANNEL ~ 500'
CLOSED EXISTING ALT. BARGE CHANNEL ~ 260'
CLOSED EXISTING PRIMARY CHANNEL ~ 260'
OPEN TEMPORARY CHANNEL ~ 200'
I-5 SB LINE
I-5 NB LINE
SMB
MCB
MMB
SPMB
LCB
LMB
SPB
CATB
BTB
CONCEPTUAL
NOT FOR CONSTRUCTION
SEPT. 2012
PHASE 8
COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE
ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT
SCB = SMALL CRANE BARGE, 118' LONG x 68' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
SMB = SMALL MATERIAL BARGE, 110' LONG x 36' WIDE x 8' DEPTH
MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 8.5' DEPTH
LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME
BTB = BAKER TANK BARGE, 150' LONG x 40' WIDE x 8.5' DEPTH

CONSTRUCTION SEQUENCE:

1. CONSTRUCT COLUMNS AND PIER CAP AT PIER RC-8 FOR NB AND SB STRUCTURES.
2. PREASSEMBLE TRUSS PANELS 4 THROUGH 13 OF SPAN 6 ON BARGES IN STAGING AREA NEAR SHORE.
3. INSTALL TEMPORARY BENTS ON THE SHAFT CAP AT EACH SIDE OF PIER RC-7 NB.
4. ERECT THE NB TRUSSES AT PIER RC-7 USING BALANCED CANTILEVER METHODS ACROSS THE TEMPORARY BENTS (3 PANELS BACK STATION AND 3 PANELS AHEAD STATION).
5. STRAND JACK PREASSEMBLED SPAN 6 NB TRUSSES INTO PLACE TO COMPLETE THE SPAN.
6. REMOVE TEMPORARY BENTS FROM NB BRIDGE AND REPEAT PROCEDURE FOR SPAN 6 OF THE SB BRIDGE.



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 165 TON CAPACITY
SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
MCB = MEDIUM CRANE BARGE, 150' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
MMB = MEDIUM MATERIAL BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH
LCB = LARGE CRANE BARGE, 300' LONG x 100' WIDE x 18' DEPTH, ~ 700 TON CAPACITY
LMB = LARGE MATERIAL BARGE, 164' LONG x 50' WIDE x 13.5' DEPTH
SPB = SPOILS BARGE, 180' LONG x 50' WIDE x 16' DEPTH
CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME
BTB = BAKER TANK BARGE, 150' LONG x 48' WIDE x 9.5' DEPTH

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SEPT. 2012

PHASE 9

COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE

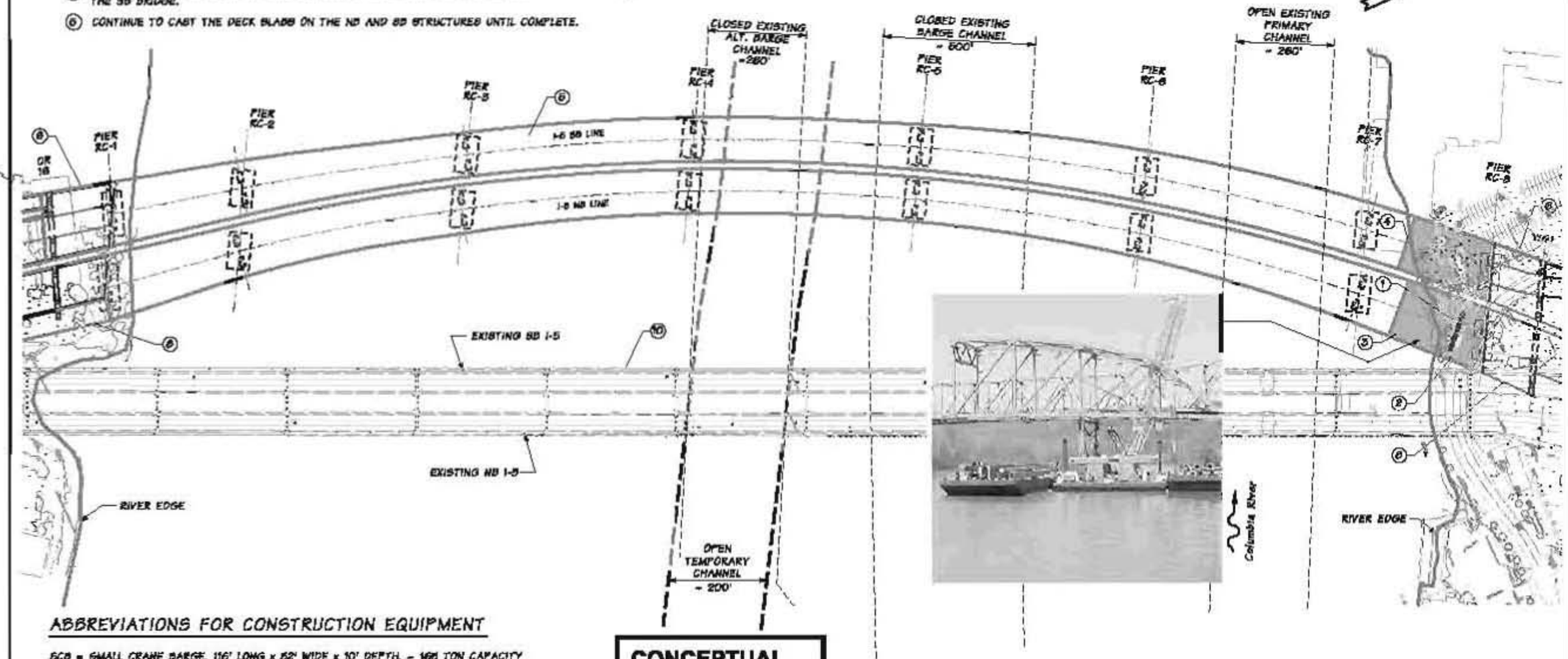
CONCEPTUAL DESIGN
Columbia River CROSSING

$DATE$ 9.3.09 AM$FILE$

CONSTRUCTION SEQUENCE:

1. CONSTRUCT TEMPORARY BENT NEAR PIER RC-5 NB.
2. ERECT THE NB TRUSSES FROM PIER RC-5 ACROSS THE TEMPORARY BENT (6 TOTAL PANELS).
3. CONTINUE TO ERECT THE TRUSSES AT PIER RC-7 NB CANTILEVER TO CLOSE THE SPAN.
4. REMOVE TEMPORARY BENT FROM NB STRUCTURE AND REPEAT PROCEDURE FOR THE SB BRIDGE.
5. CONTINUE TO CAST THE DECK SLABS ON THE NB AND SB STRUCTURES UNTIL COMPLETE.
6. COMPLETE SB OREGON AND WASHINGTON APPROACH STRUCTURES.
7. MOVE TRAFFIC TO SB STRUCTURE.
8. COMPLETE NB OREGON AND WASHINGTON APPROACH STRUCTURES.
9. MOVE TRAFFIC TO NB STRUCTURE, COLUMBIA RIVER BRIDGES COMPLETE.
10. REMOVE EXISTING BRIDGES.

DRAFT



ABBREVIATIONS FOR CONSTRUCTION EQUIPMENT

SCB = SMALL CRANE BARGE, 116' LONG x 52' WIDE x 10' DEPTH, ~ 160 TON CAPACITY
SMB = SMALL MATERIAL BARGE, 110' LONG x 35' WIDE x 8' DEPTH
MCB = MEDIUM CRANE BARGE, 160' LONG x 70' WIDE x 12.5' DEPTH, ~ 300 TON CAPACITY
MMB = MEDIUM MATERIAL BARGE, 150' LONG x 45' WIDE x 9.5' DEPTH
LCB = LARGE CRANE BARGE, 500' LONG x 100' WIDE x 15' DEPTH, ~ 700 TON CAPACITY
LMB = LARGE MATERIAL BARGE, 164' LONG x 60' WIDE x 15.5' DEPTH
SPB = SPOILS BARGE, 150' LONG x 50' WIDE x 16' DEPTH
CATB = CATAMARAN BARGE WITH LIFTING FRAME, 2 EA MMB FIXED 120' APART BY LIFTING FRAME
BTB = BAKER TANK BARGE, 150' LONG x 45' WIDE x 9.5' DEPTH

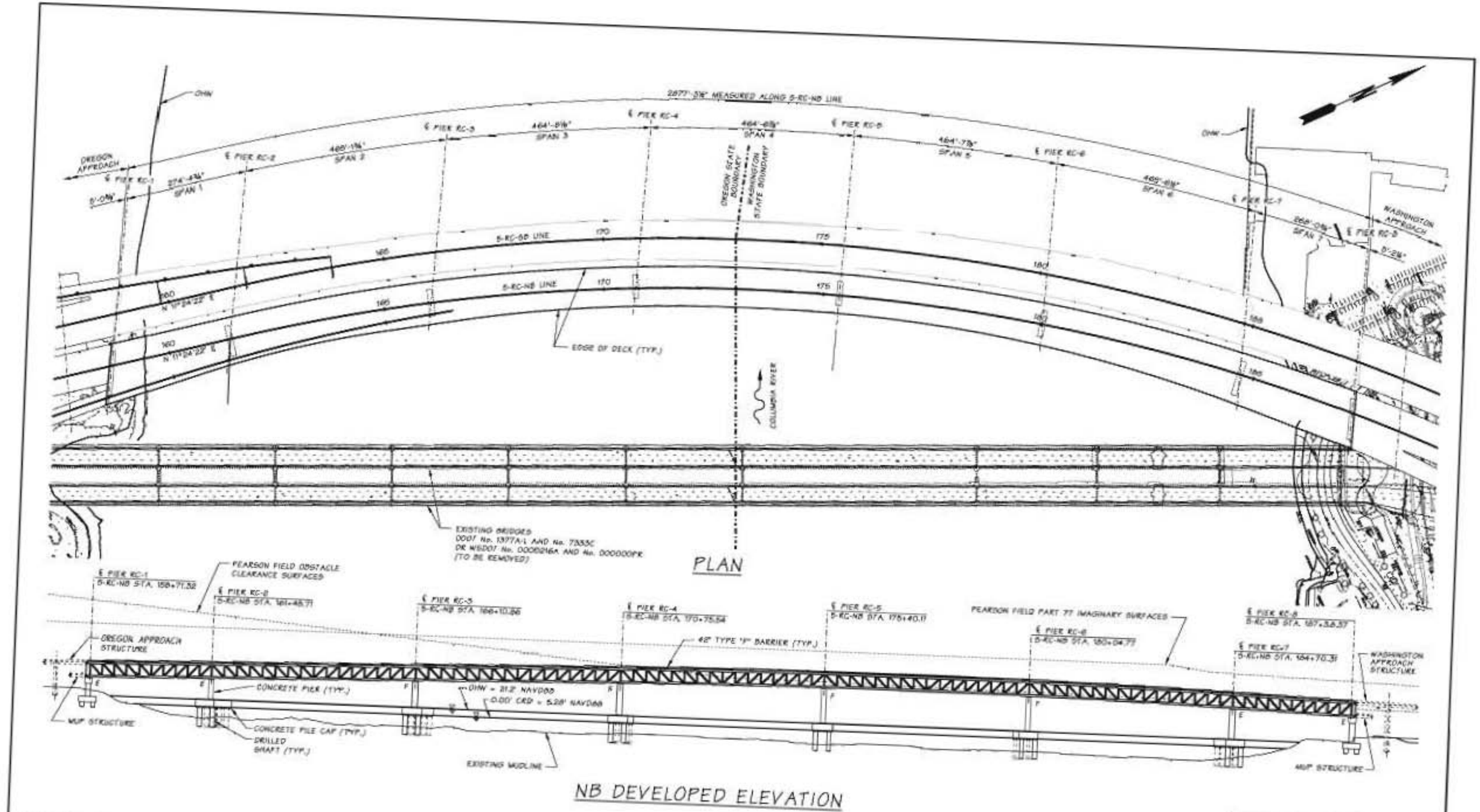
CONCEPTUAL
NOT FOR CONSTRUCTION
SEPT. 2012

PHASE 10

COLUMBIA RIVER BRIDGE
CONSTRUCTION SEQUENCE

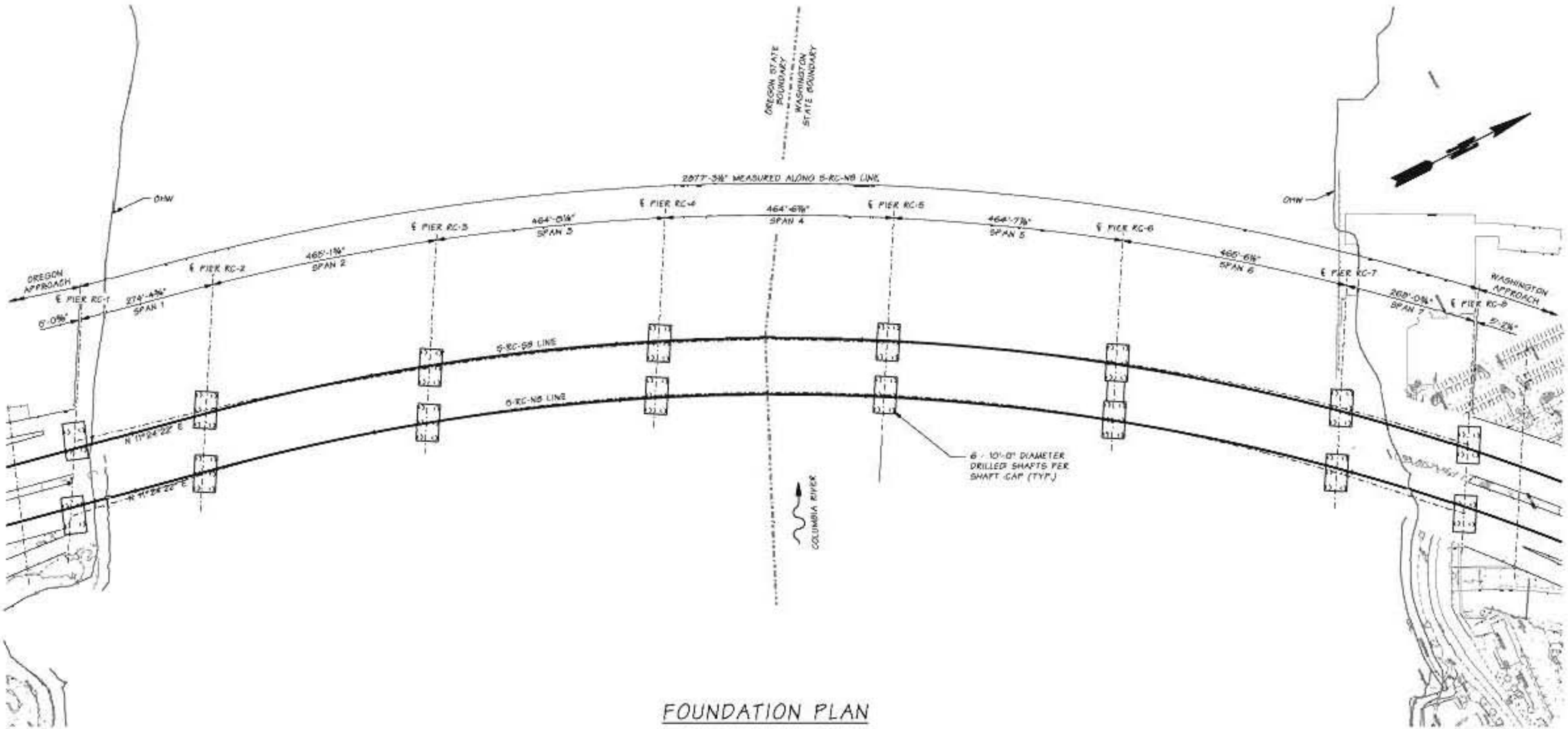
CONCEPTUAL DESIGN
Columbia River CROSSING

$DATE$ S:42.38 AMFIELS



FOR PERMITTING PURPOSES ONLY
NOT FOR CONSTRUCTION

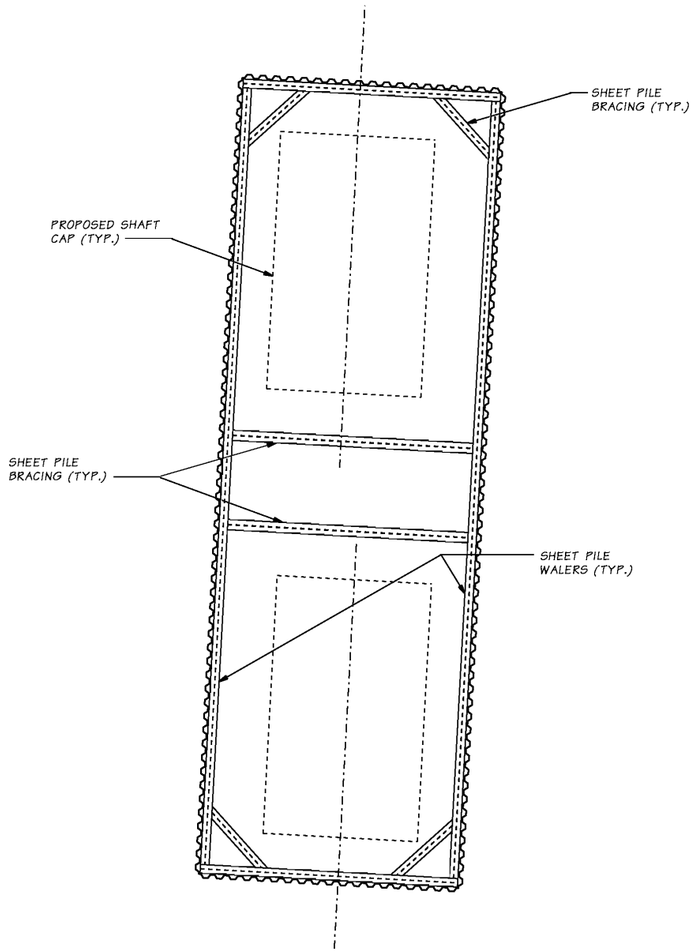
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING



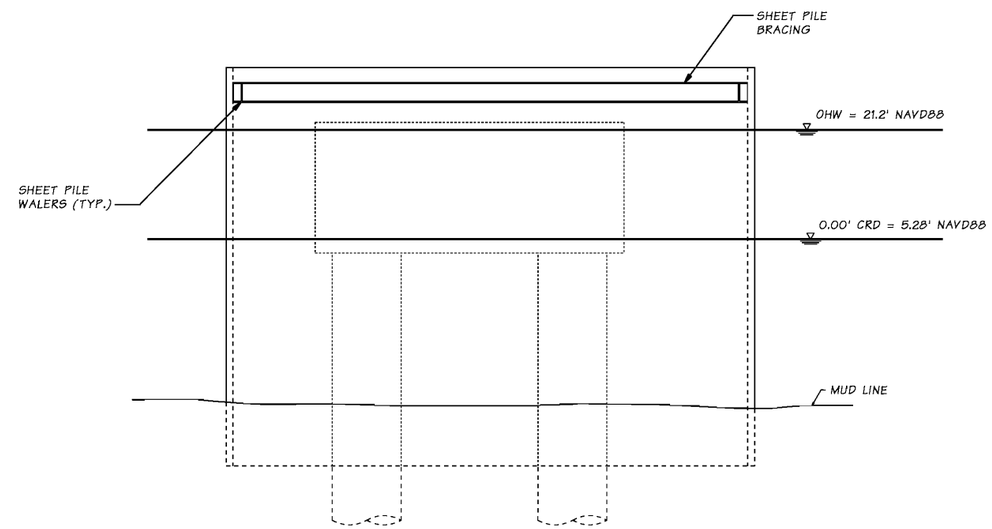
FOUNDATION PLAN

FOR PERMITTING PURPOSES ONLY
NOT FOR CONSTRUCTION

Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING



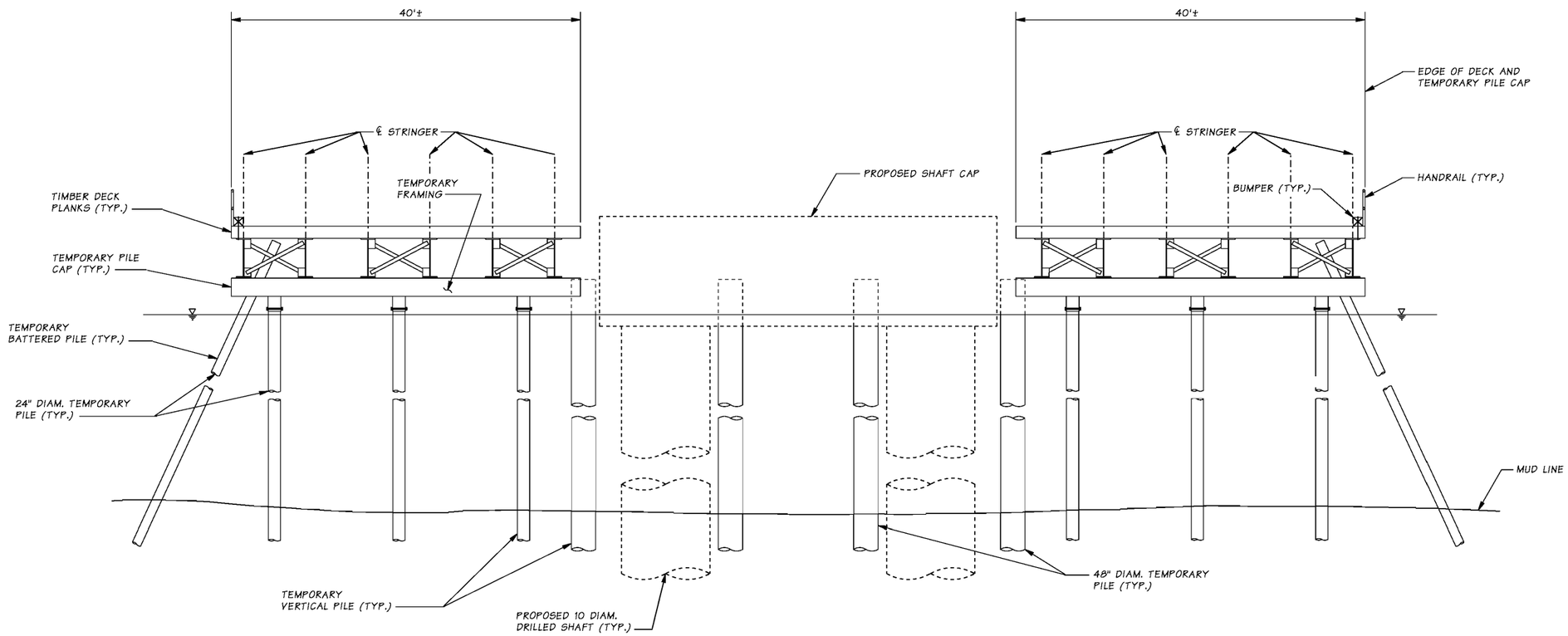
COFFERDAM AT PIER 2
PLAN VIEW



COFFERDAM TYPICAL SECTION

FOR PERMITTING PURPOSES ONLY
NOT FOR CONSTRUCTION

Washington State
Department of Transportation
Oregon Department
of Transportation
Columbia River
CROSSING

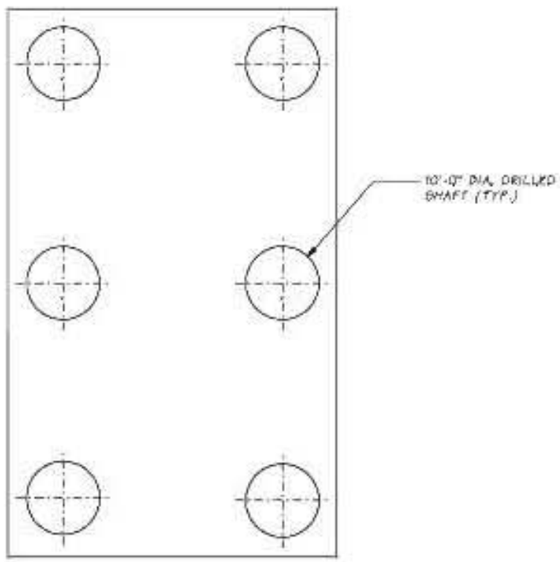


NOTE:
WORK BRIDGE WILL BE SIMILAR TO THE 40'± WORK PLATFORM

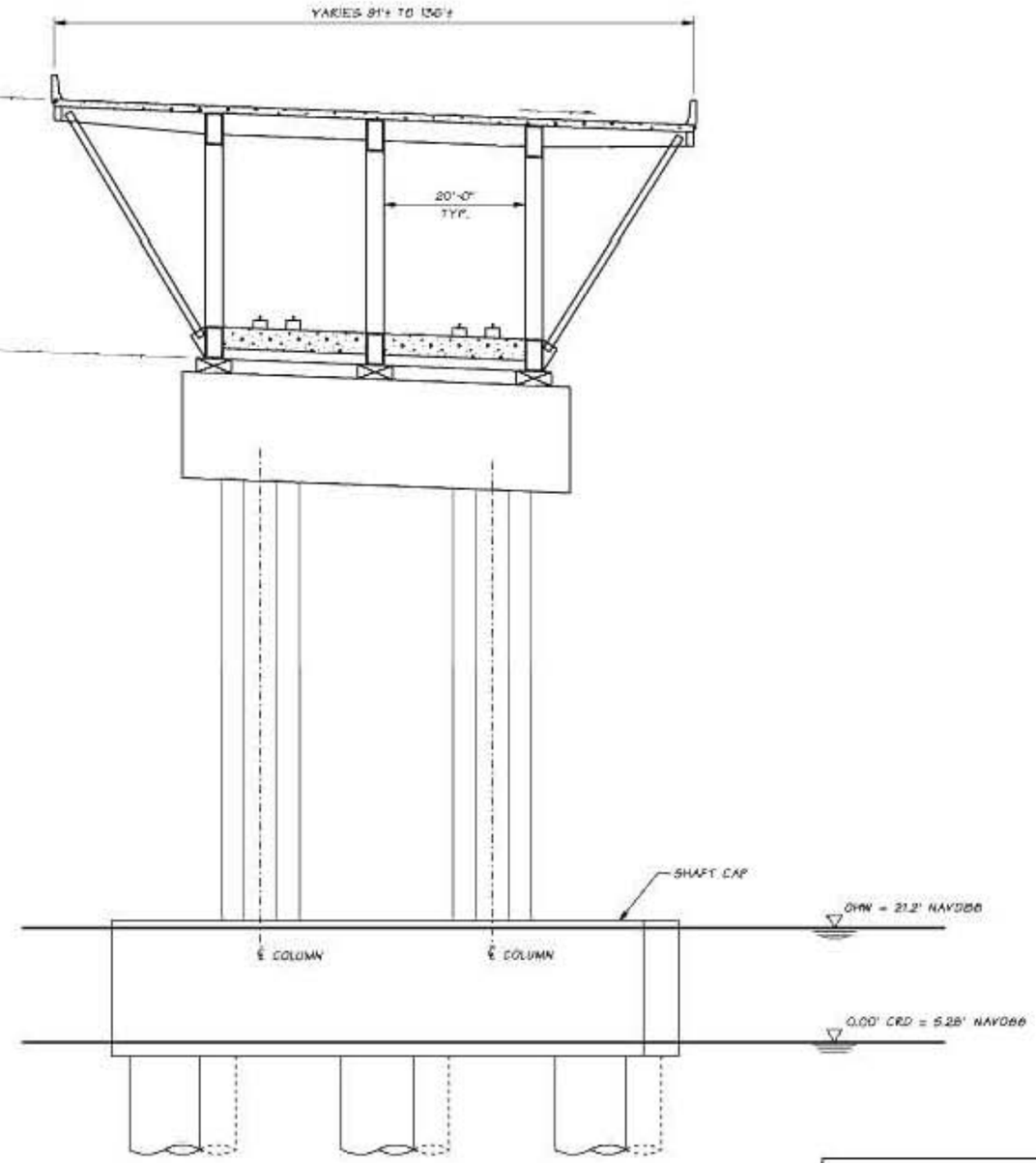
TEMPORARY WORKS TYPICAL SECTION

FOR PERMITTING PURPOSES ONLY
NOT FOR CONSTRUCTION

Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING



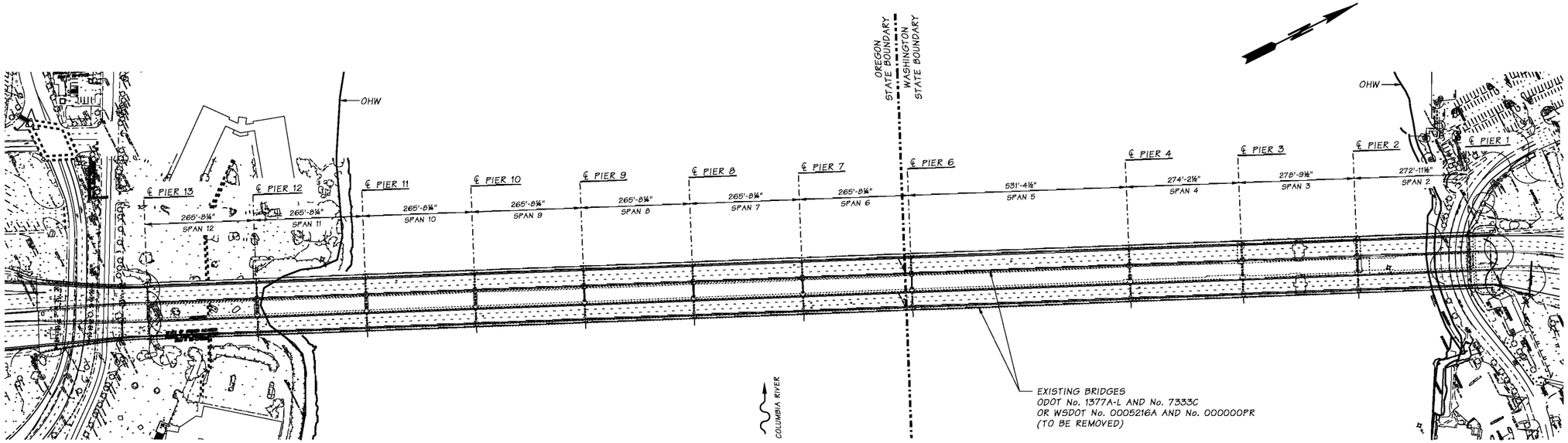
SHAFT CAP PLAN VIEW



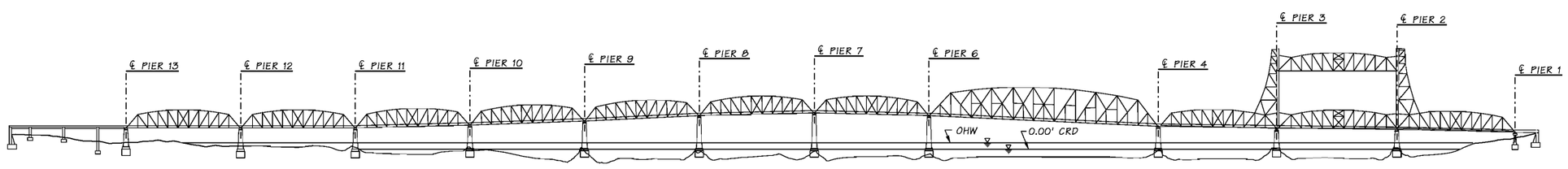
SECTION AT ℄ NB PIER RC-4

FOR PERMITTING PURPOSES ONLY
NOT FOR CONSTRUCTION

Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING



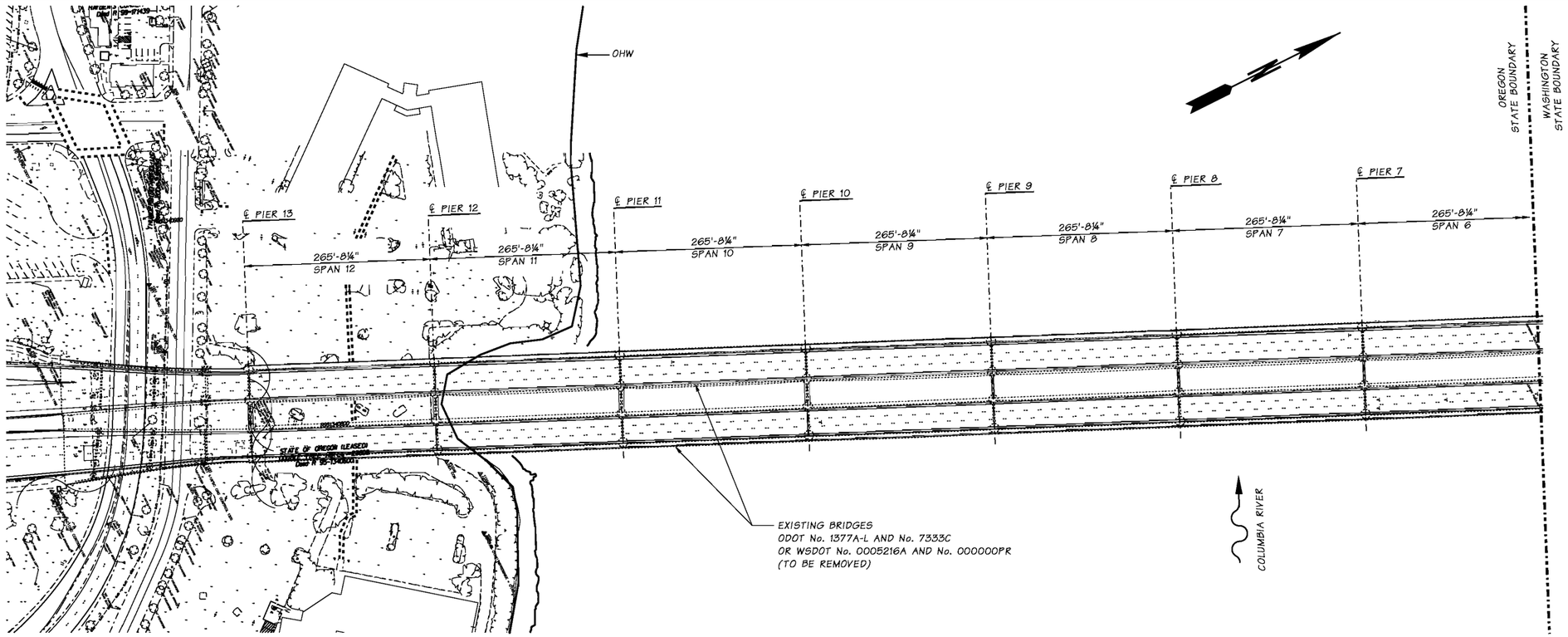
EXISTING I-5 BRIDGE PLAN



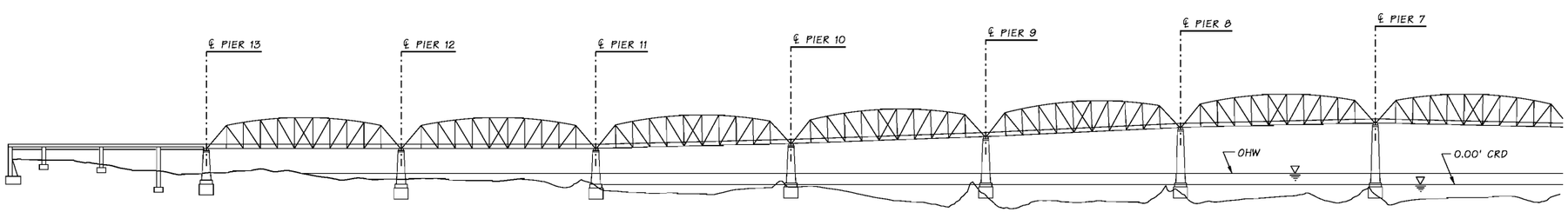
EXISTING NB I-5 BRIDGE ELEVATION

FOR PERMITTING PURPOSES ONLY
NOT FOR CONSTRUCTION

Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING



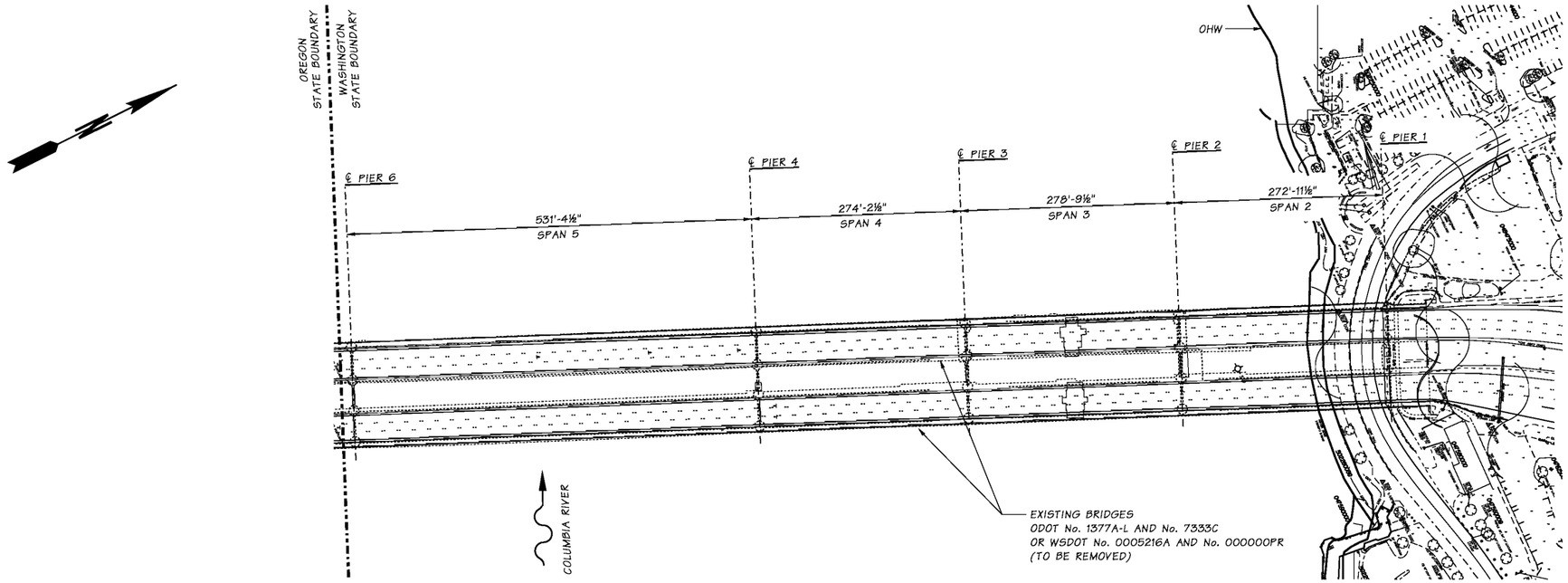
EXISTING OREGON I-5 BRIDGE PLAN



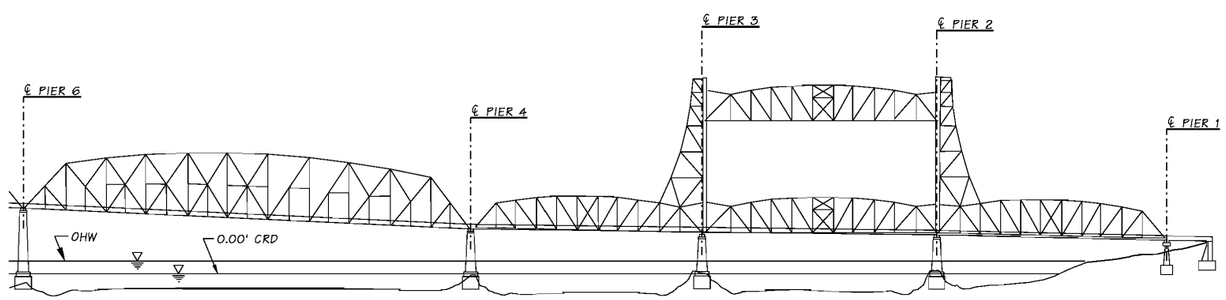
EXISTING OREGON NB I-5 BRIDGE ELEVATION

FOR PERMITTING PURPOSES ONLY
NOT FOR CONSTRUCTION

Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING



EXISTING WASHINGTON I-5 BRIDGE PLAN

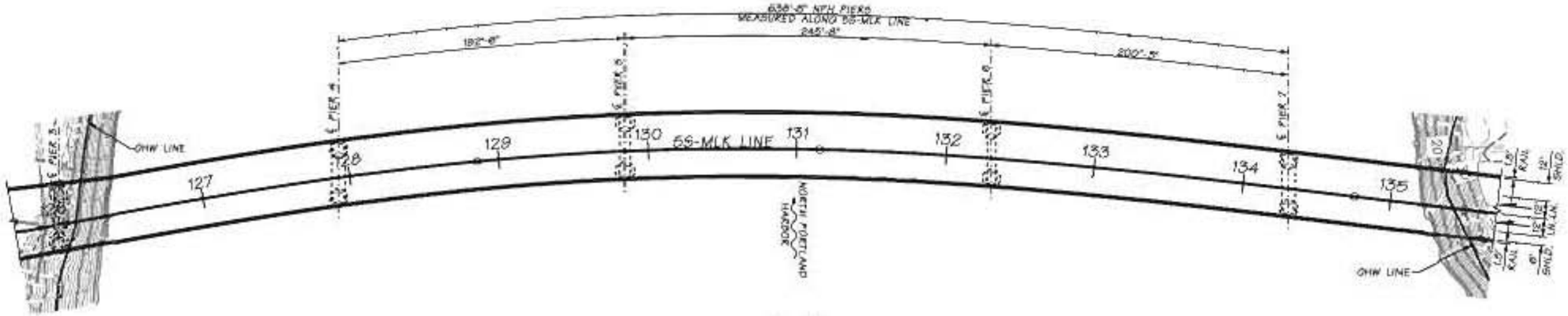


EXISTING WASHINGTON NB I-5 BRIDGE ELEVATION

FOR PERMITTING PURPOSES ONLY
NOT FOR CONSTRUCTION

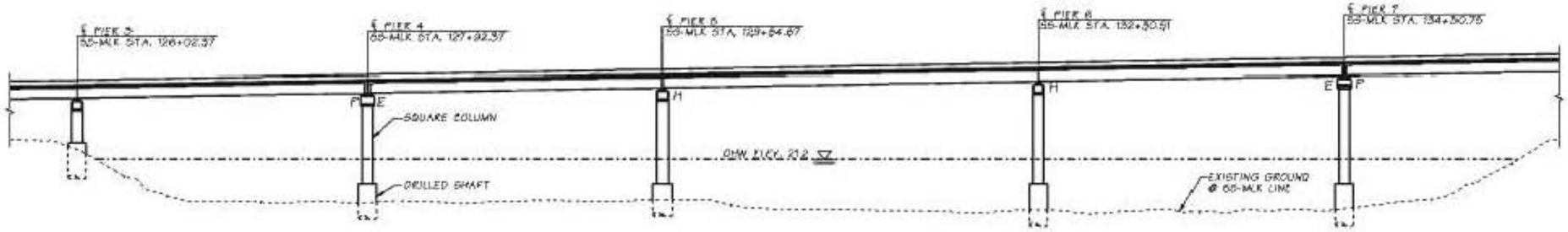
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING

SEC. 34, T. 2N., R1 E., W.M.
CITY OF PORTLAND



PLAN

BEARING OF NPH PIERS IS S 65°57'28" E



DEVELOPED ELEVATION

STEEL PLATE GIRDERS
LOADING HL-93

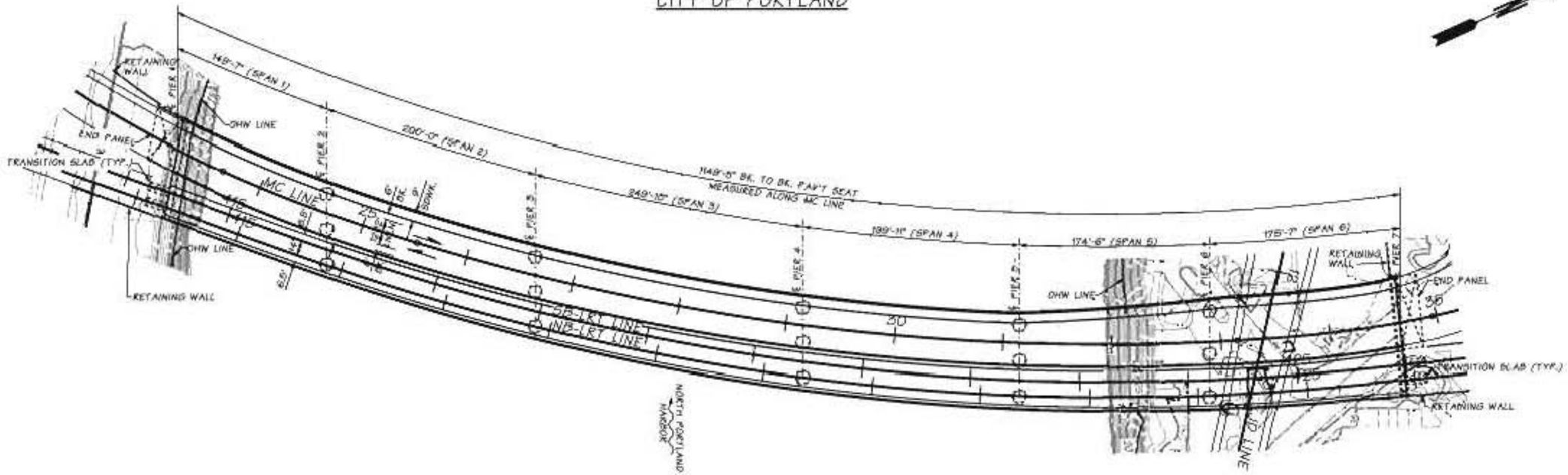
DATUM
NAVD 88

SS-MLK(NPH) PLAN AND ELEVATION

FOR PERMITTING PURPOSES ONLY
NOT FOR CONSTRUCTION

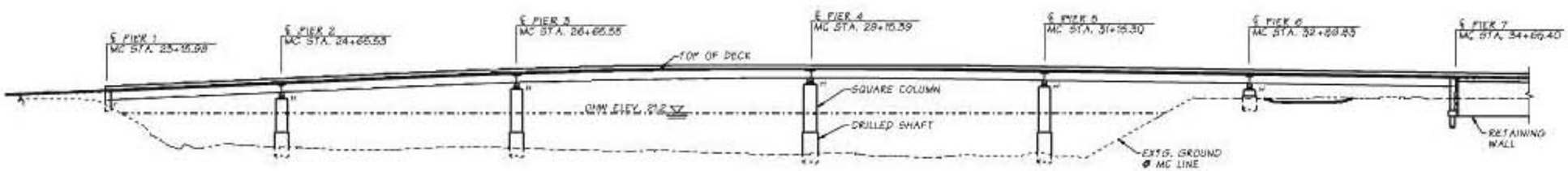
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING

SEC. 33 & 34, T. 2N., R1 E., W.M.
CITY OF PORTLAND



PLAN

BEARING OF PIER 1 IS S 54°39'04" E
BEARING OF PIERS 2, 3, 4, 5, AND 6 IS S 65°57'28" E
BEARING OF PIER 7 IS N 71°28'03" W



DEVELOPED ELEVATION

STEEL PLATE GIRDERS
LOADING HL-93

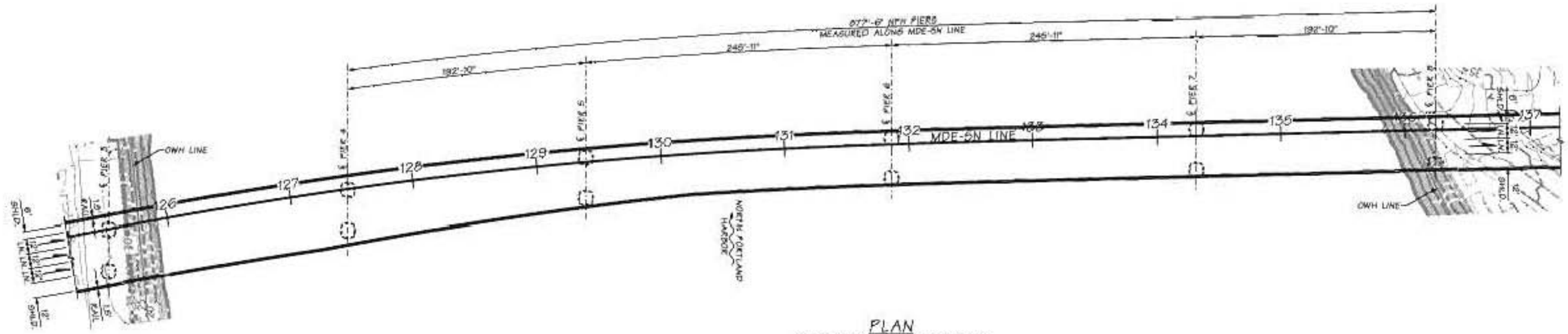
DATUM
NAVD 88

LRT(NPH) PLAN AND ELEVATION

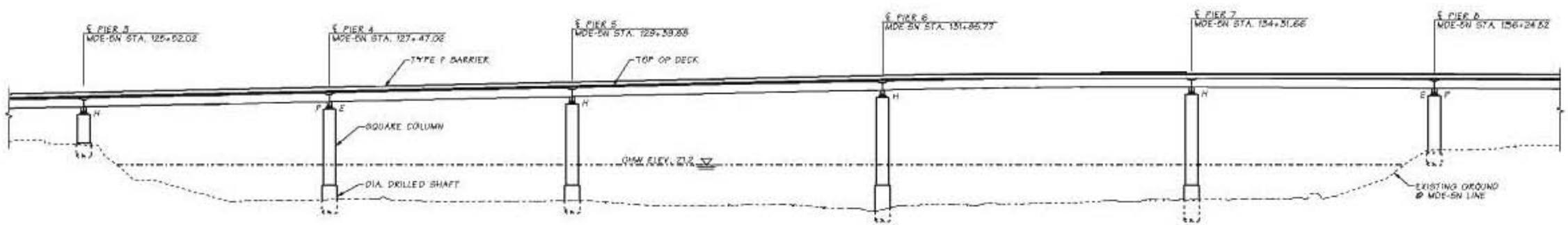
FOR PERMITTING PURPOSES ONLY
NOT FOR CONSTRUCTION

Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING

SEC. 34, T. 2N., R1 E., W.M.
CITY OF PORTLAND



PLAN
BEARING OF NPH PIERS IS S 85°37'25" E



DEVELOPED ELEVATION

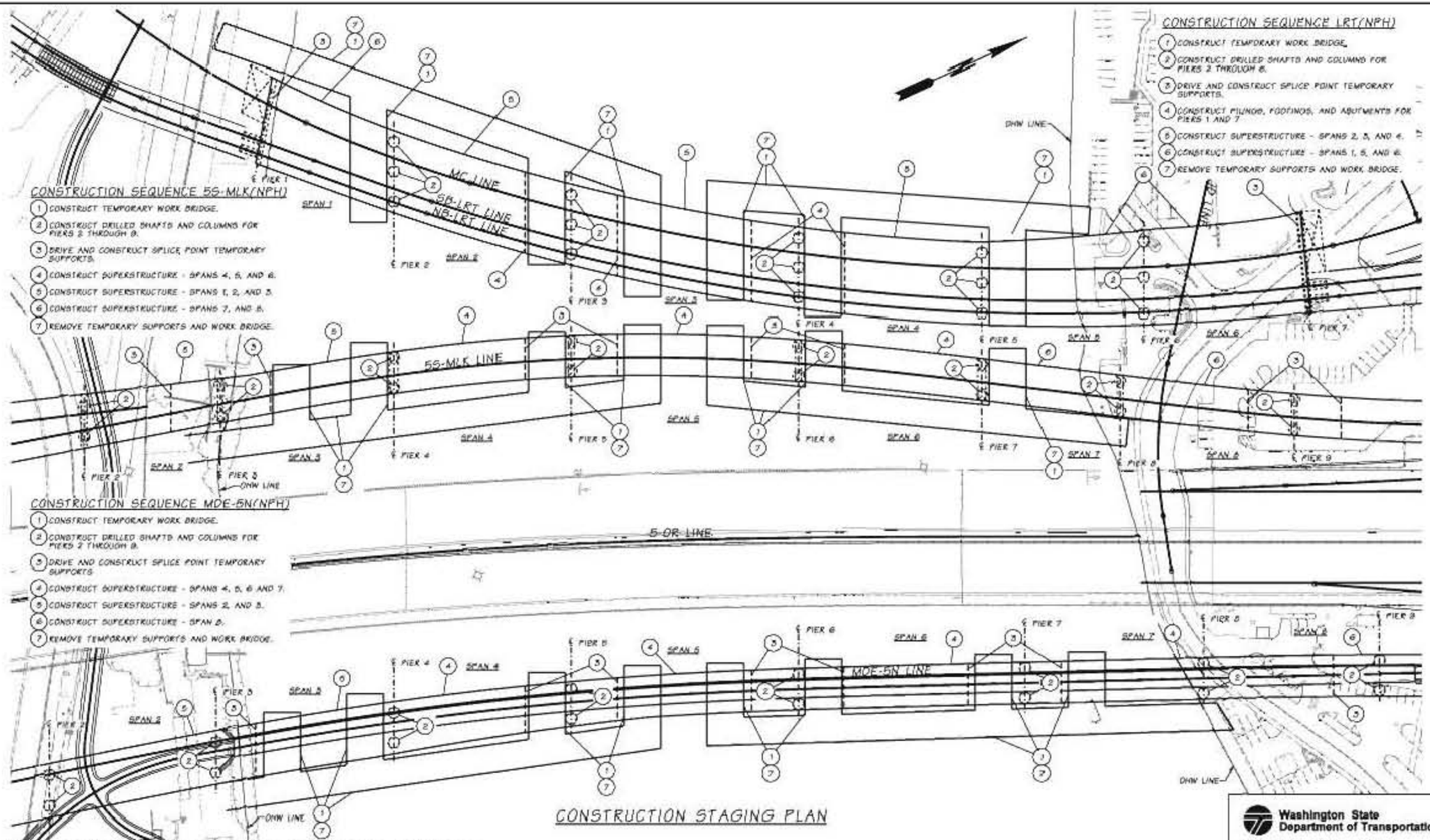
STEEL PLATE GIRDERS
LOADING HL-93

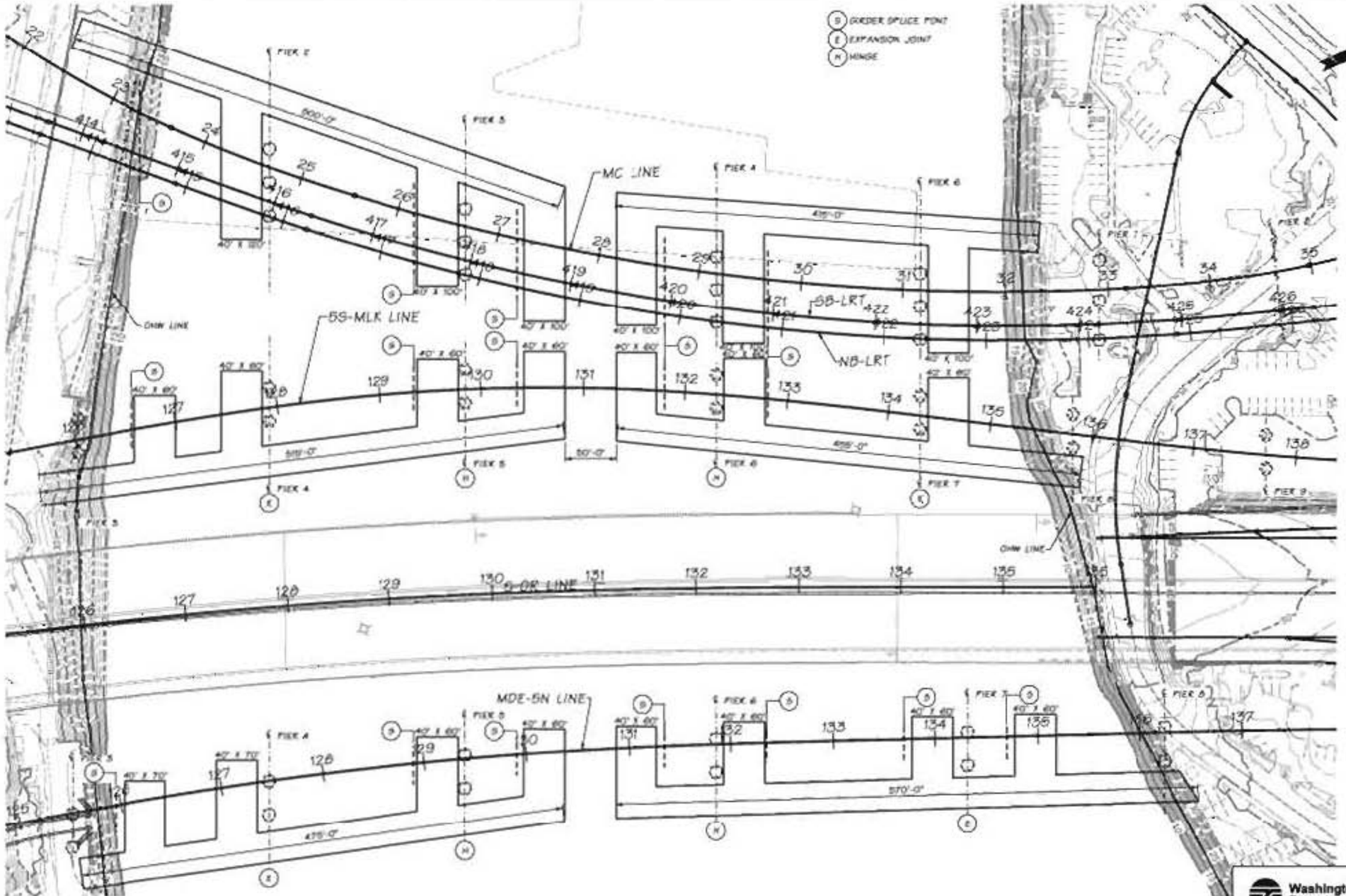
DATUM
NAVD 88

MDE-5N PLAN AND ELEVATION

FOR PERMITTING PURPOSES ONLY
NOT FOR CONSTRUCTION

Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING

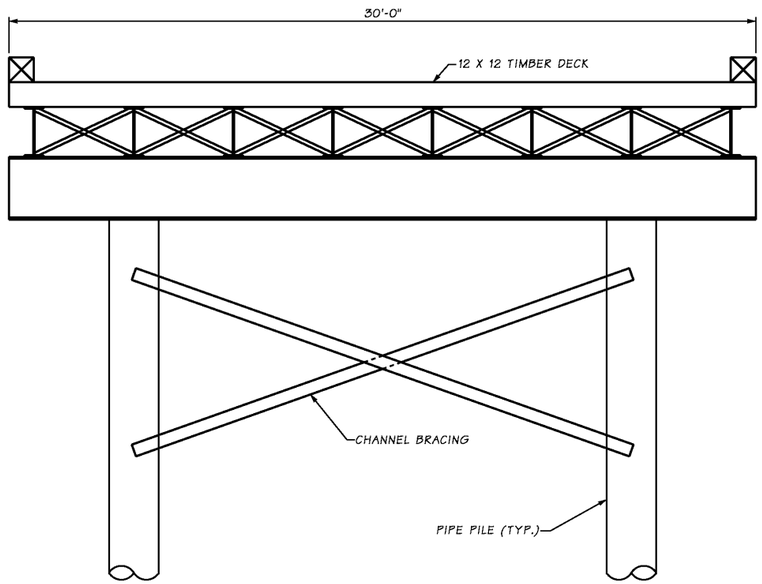

CONSTRUCTION SEQUENCE 5S-MLK(NPH)
1 CONSTRUCT TEMPORARY WORK BRIDGE.
2 CONSTRUCT DRILLED SHAFTS AND COLUMNS FOR PIERS 2 THROUGH 8.
3 DRIVE AND CONSTRUCT SPLICE POINT TEMPORARY SUPPORTS.
4 CONSTRUCT SUPERSTRUCTURE - SPANS 4, 5, AND 6.
5 CONSTRUCT SUPERSTRUCTURE - SPANS 1, 2, AND 3.
6 CONSTRUCT SUPERSTRUCTURE - SPANS 7, AND 8.
7 REMOVE TEMPORARY SUPPORTS AND WORK BRIDGE.
CONSTRUCTION SEQUENCE MOE-5N(NPH)
1 CONSTRUCT TEMPORARY WORK BRIDGE.
2 CONSTRUCT DRILLED SHAFTS AND COLUMNS FOR PIERS 2 THROUGH 8.
3 DRIVE AND CONSTRUCT SPLICE POINT TEMPORARY SUPPORTS
4 CONSTRUCT SUPERSTRUCTURE - SPANS 4, 5, 6 AND 7.
5 CONSTRUCT SUPERSTRUCTURE - SPANS 2, AND 3.
6 CONSTRUCT SUPERSTRUCTURE - SPAN 8.
7 REMOVE TEMPORARY SUPPORTS AND WORK BRIDGE.
CONSTRUCTION SEQUENCE LRT(NPH)
1 CONSTRUCT TEMPORARY WORK BRIDGE.
2 CONSTRUCT DRILLED SHAFTS AND COLUMNS FOR PIERS 2 THROUGH 8.
3 DRIVE AND CONSTRUCT SPLICE POINT TEMPORARY SUPPORTS.
4 CONSTRUCT PILINGS, FOOTINGS, AND ABUTMENTS FOR PIERS 1 AND 7
5 CONSTRUCT SUPERSTRUCTURE - SPANS 2, 3, AND 4.
6 CONSTRUCT SUPERSTRUCTURE - SPANS 1, 5, AND 6.
7 REMOVE TEMPORARY SUPPORTS AND WORK BRIDGE.
MC LINE
SB-LRT LINE
NB-LRT LINE
5S-MLK LINE
MOE-5N LINE
5-OR LINE
OHW LINE
PIER 1
PIER 2
PIER 3
PIER 4
PIER 5
PIER 6
PIER 7
PIER 8
PIER 9
SPAN 1
SPAN 2
SPAN 3
SPAN 4
SPAN 5
SPAN 6
SPAN 7
SPAN 8
CONSTRUCTION STAGING PLAN
FOR PERMITTING PURPOSES ONLY
NOT FOR CONSTRUCTION
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING



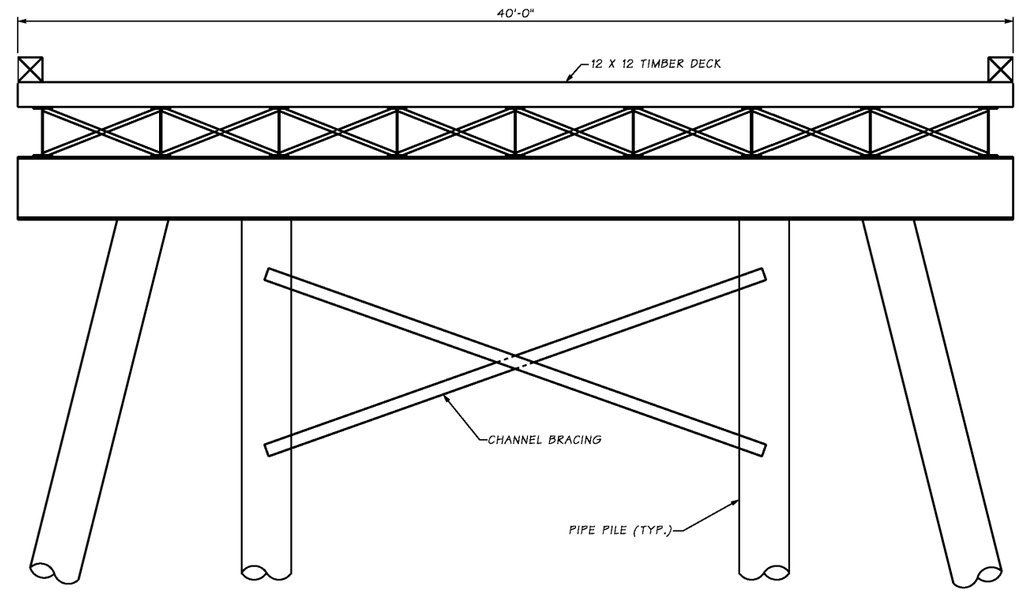
WORK BRIDGE PLAN

FOR PERMITTING PURPOSES ONLY
NOT FOR CONSTRUCTION

Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING



MAIN PLATFORM

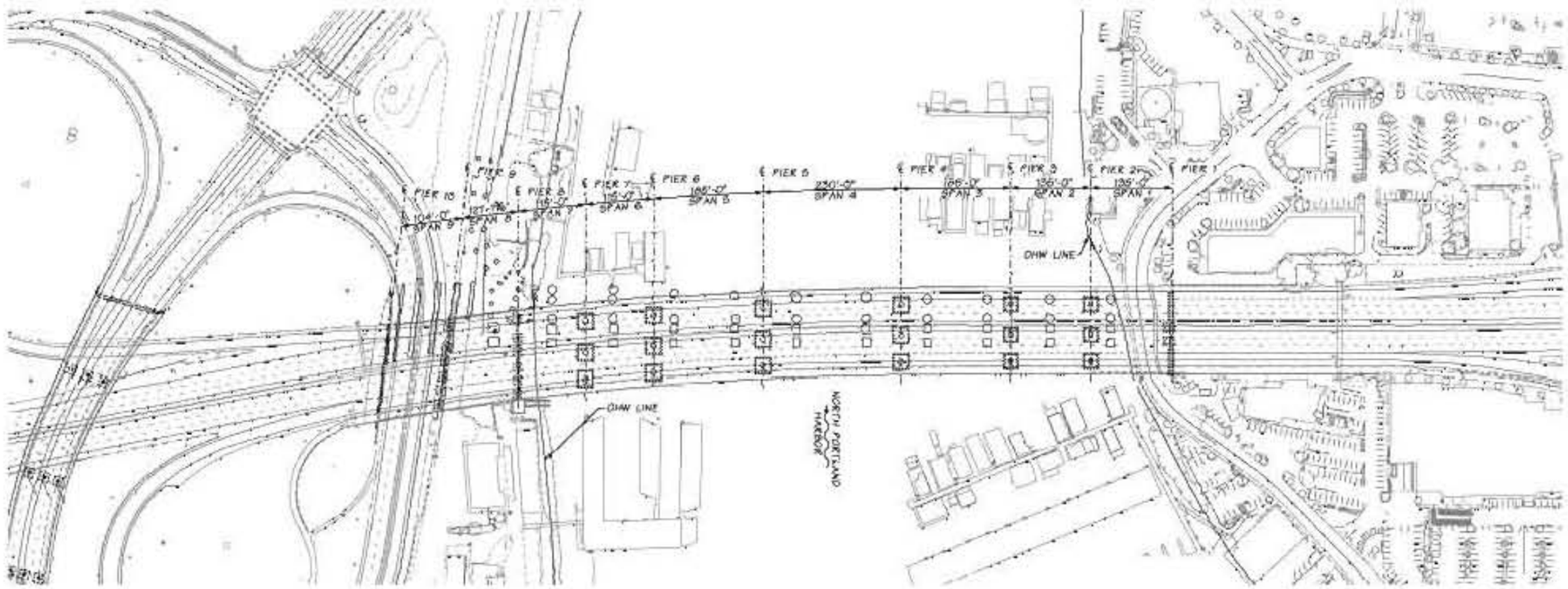


FINGER PLATFORM

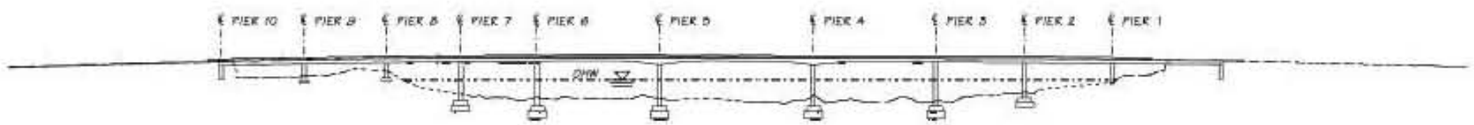
WORK BRIDGE TYPICAL SECTIONS

FOR PERMITTING PURPOSES ONLY
NOT FOR CONSTRUCTION

Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING



EXISTING NPH I-5 BRIDGE PLAN



EXISTING NPH I-5 BRIDGE ELEVATION

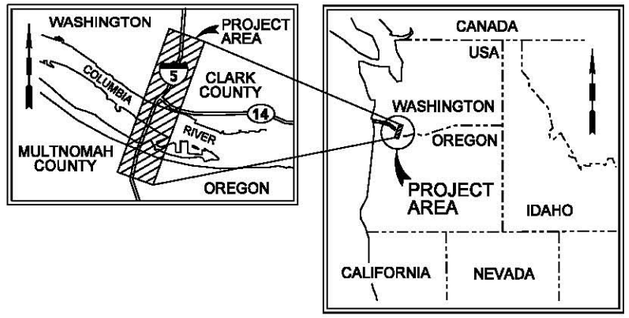
FOR PERMITTING PURPOSES ONLY
NOT FOR CONSTRUCTION

Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING

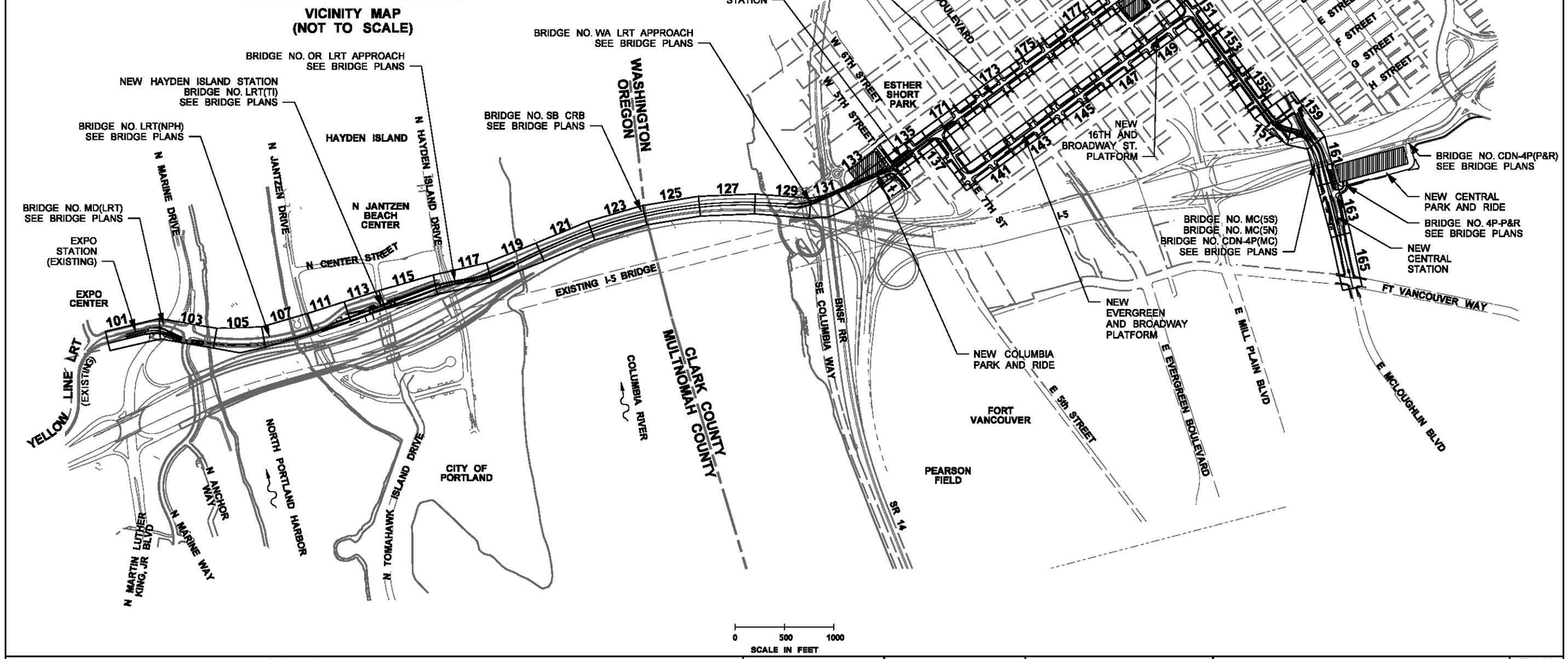
DATUM

HORIZONTAL - NORTHING*S AND EASTING*S ARE REPORTED IN THE PROJECT LOCAL DATUM PLANE (LDP) COORDINATE SYSTEM AS USED IN SURVEYS RECORDED IN BOOK 60, PAGE 36, IN CLARK COUNTY, WASHINGTON AND AS SURVEY NUMBER 63031 IN MULTNOMAH COUNTY, OREGON. THE PROJECT LDP WAS SCALED FROM THE WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4602), NAD83(91), US SURVEY FEET, IN BOTH WASHINGTON AND OREGON. TO CONVERT FROM THE PROJECT LDP BACK TO THOSE STATE PLANE COORDINATES, MULTIPLY NORTHING*S AND EASTING*S BY 1.0000576.

VERTICAL - NAVD88



VICINITY MAP
(NOT TO SCALE)



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DATE	3/26/2012				JOB NUMBER		
PLOTTED BY	syfrettt						
DESIGNED BY	T. SYFRETT				CONTRACT NO.		LOCATION NO.
ENTERED BY	T. SYFRETT						
CHECKED BY	J. ESKEW						
PROJ. ENGR.	V. SMITH						
REGIONAL ADM.		REVISION	DATE	BY			

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

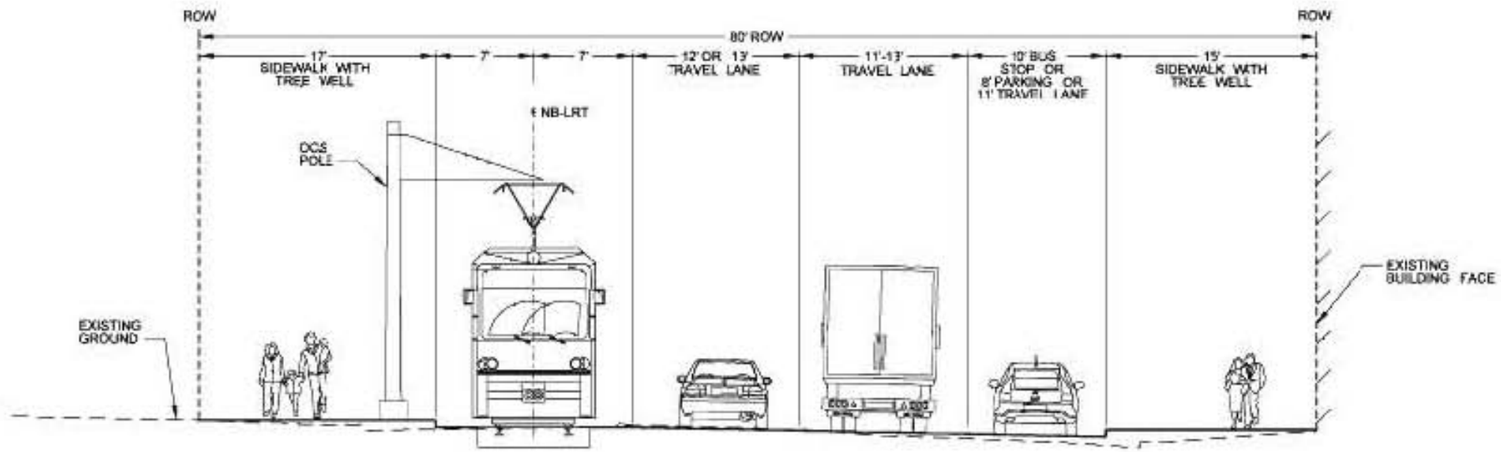
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING

COLUMBIA RIVER CROSSING
LIGHT RAIL
PRELIMINARY ENGINEERING

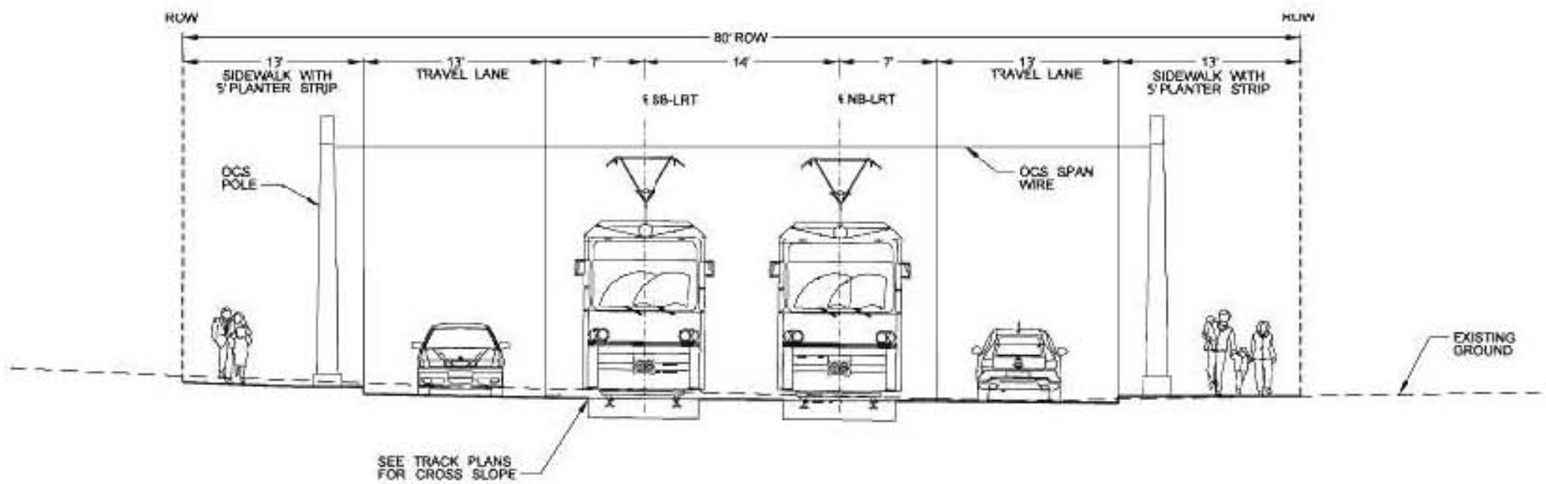
SHEET LAYOUT AND VICINITY MAP

Plot 32
PLAN REF. NO. G011
SHEET OF SHEETS

CRC_TT_MC_Title.dgn Default 3/26/2012 6:13:48 AM



TYPICAL BROADWAY STREET (U)
SCALE: NTS K145 & K147



NB-LRT 526+10 (V)
SCALE: NTS K151

NOTE:

1. SEE SHEETS J222 - J241 FOR DUCT BANK TYPICAL SECTIONS

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DATE	3/26/2012				
PLOTTED BY	syfrett				
DESIGNED BY	J. HORI				
ENTERED BY	J. HORI				
CHECKED BY	P. HANKOVSKY				
PROJ. ENGR.	V. SMITH				
REGIONAL ADM.		REVISION	DATE	BY	

REGION NO. 10 STATE WASH
FED.AID PROJ.NO.
JOB NUMBER
CONTRACT NO.
LOCATION NO.

P.E. STAMP BOX DATE

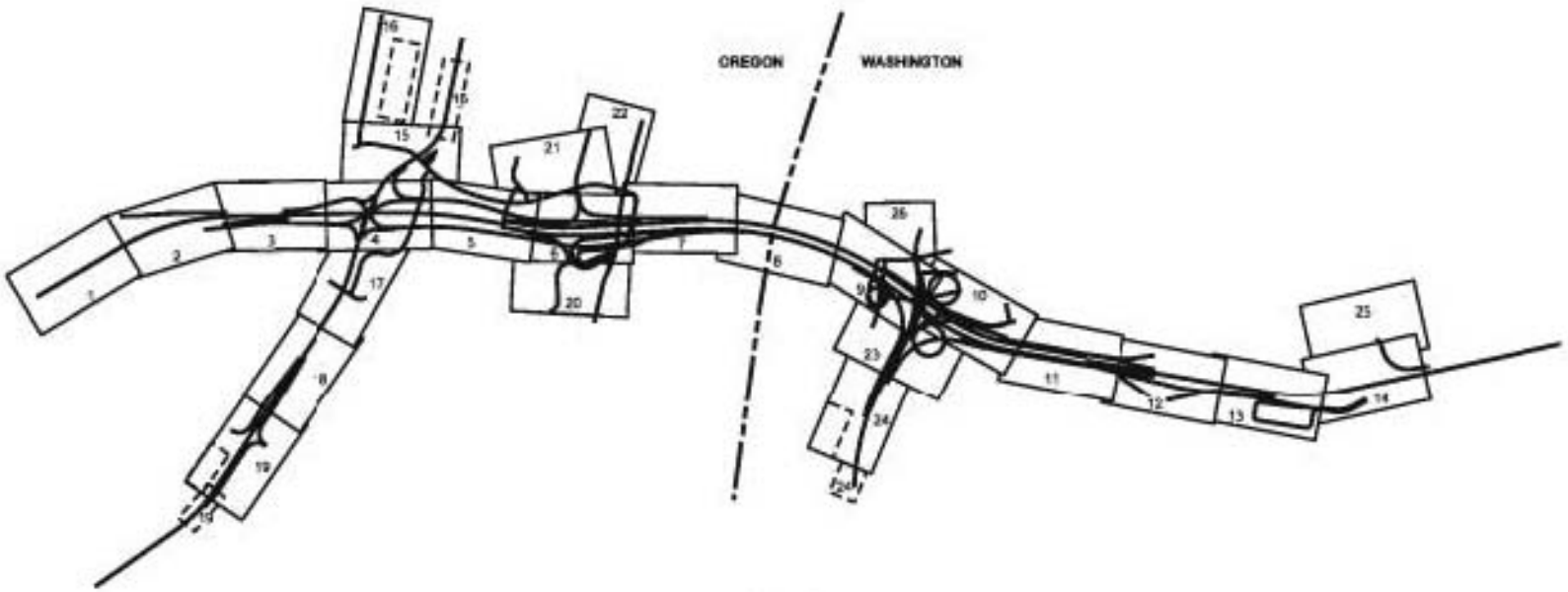
P.E. STAMP BOX DATE

Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING

COLUMBIA RIVER CROSSING
LIGHT RAIL
PRELIMINARY ENGINEERING

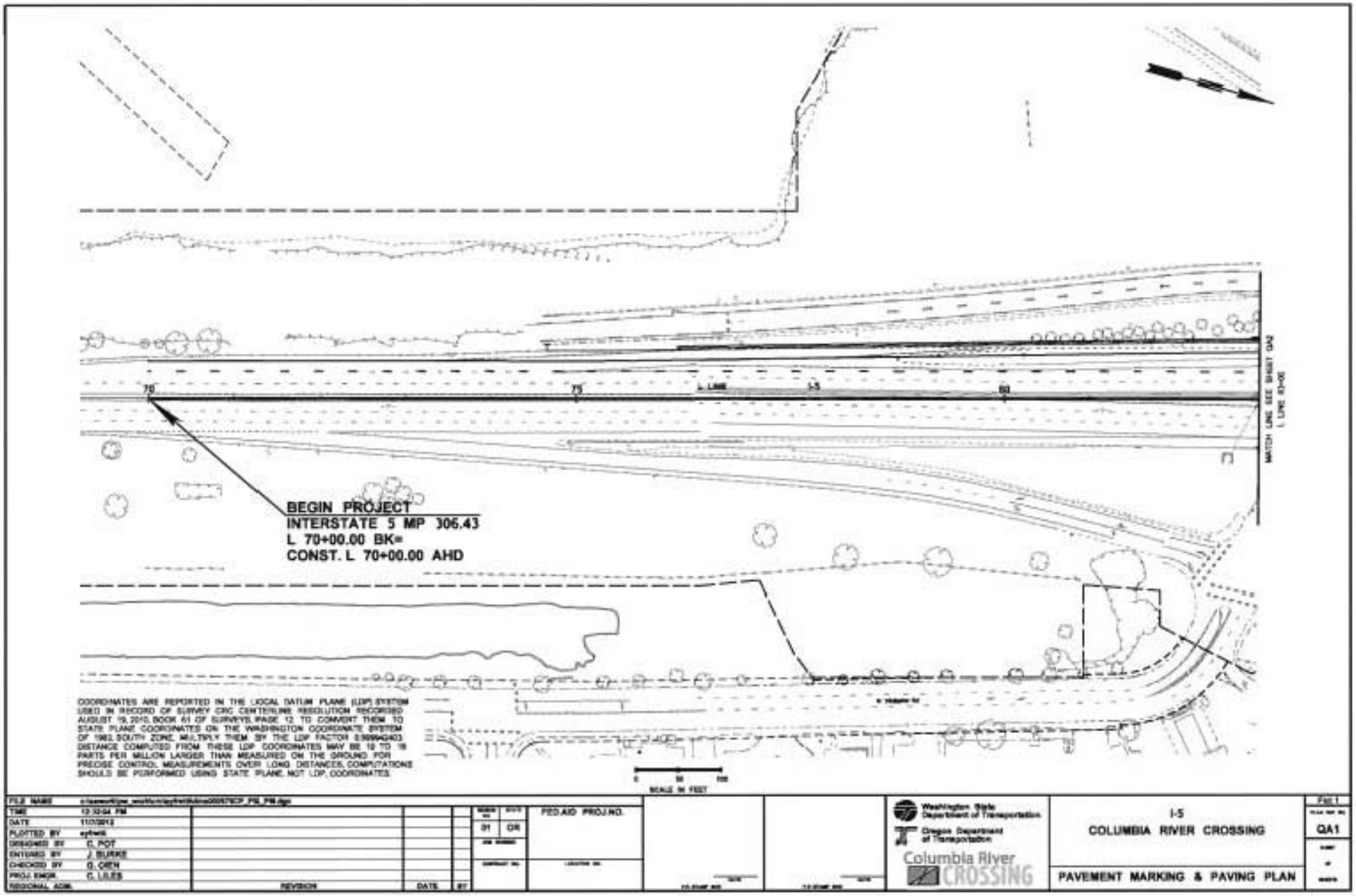
TYPICAL TRACK SECTIONS

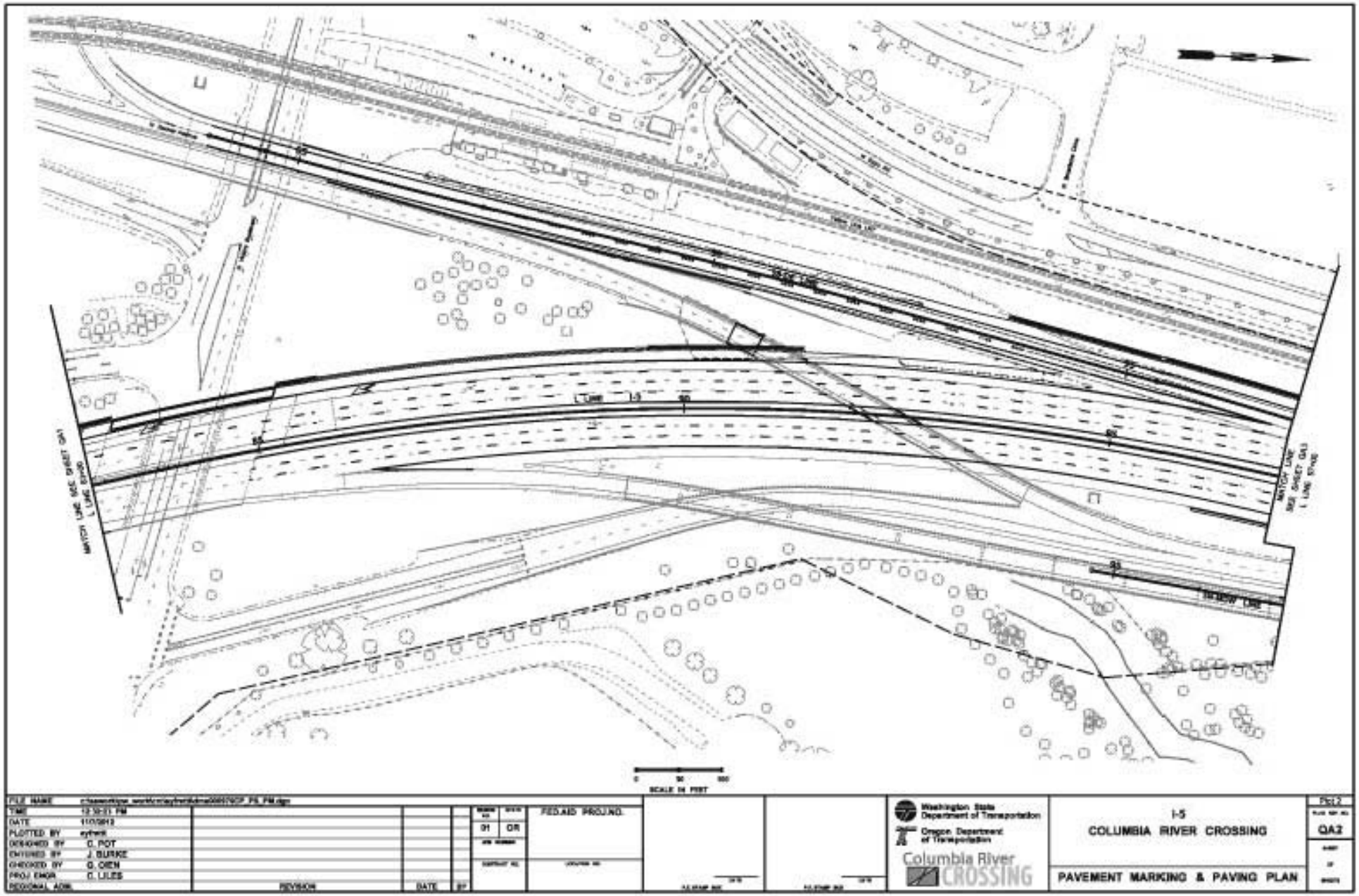
Plot 14
PLAN REF. NO. K034
SHEET OF SHEETS

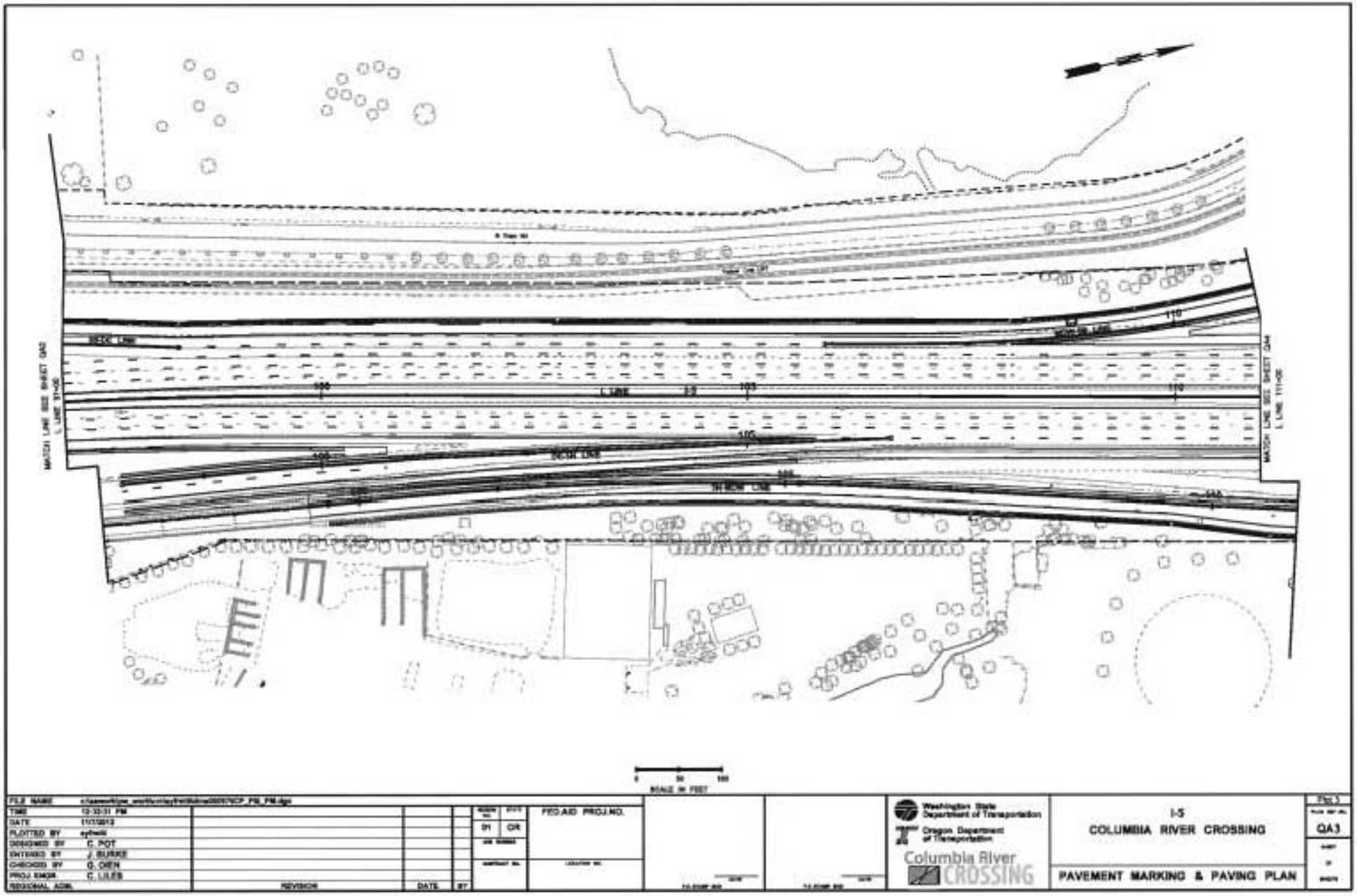


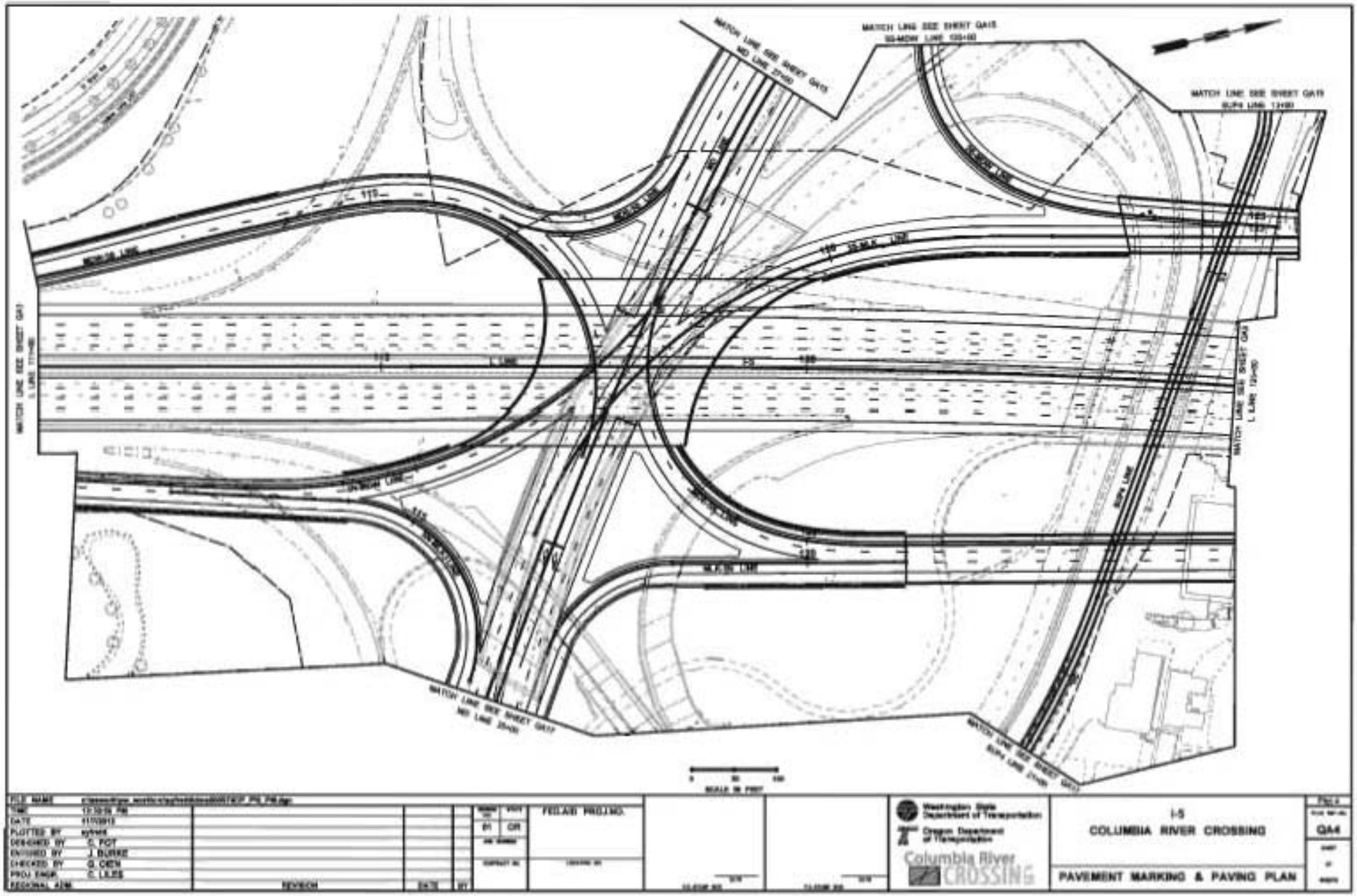
FILE NAME								I-5 COLUMBIA RIVER CROSSING	Plot 4
TIME									A1
DATE									
PLOTTED BY									
DESIGNED BY	J. BURKE			10	WASH	FEDERAL PROJ. NO.			
DRAWN BY	J. BURKE								
CHECKED BY	D. CIEN								
PROJ. ENGR.	C. LILES							SHEET LAYOUT	
REGIONAL ADM.		REVISION	DATE	BY					

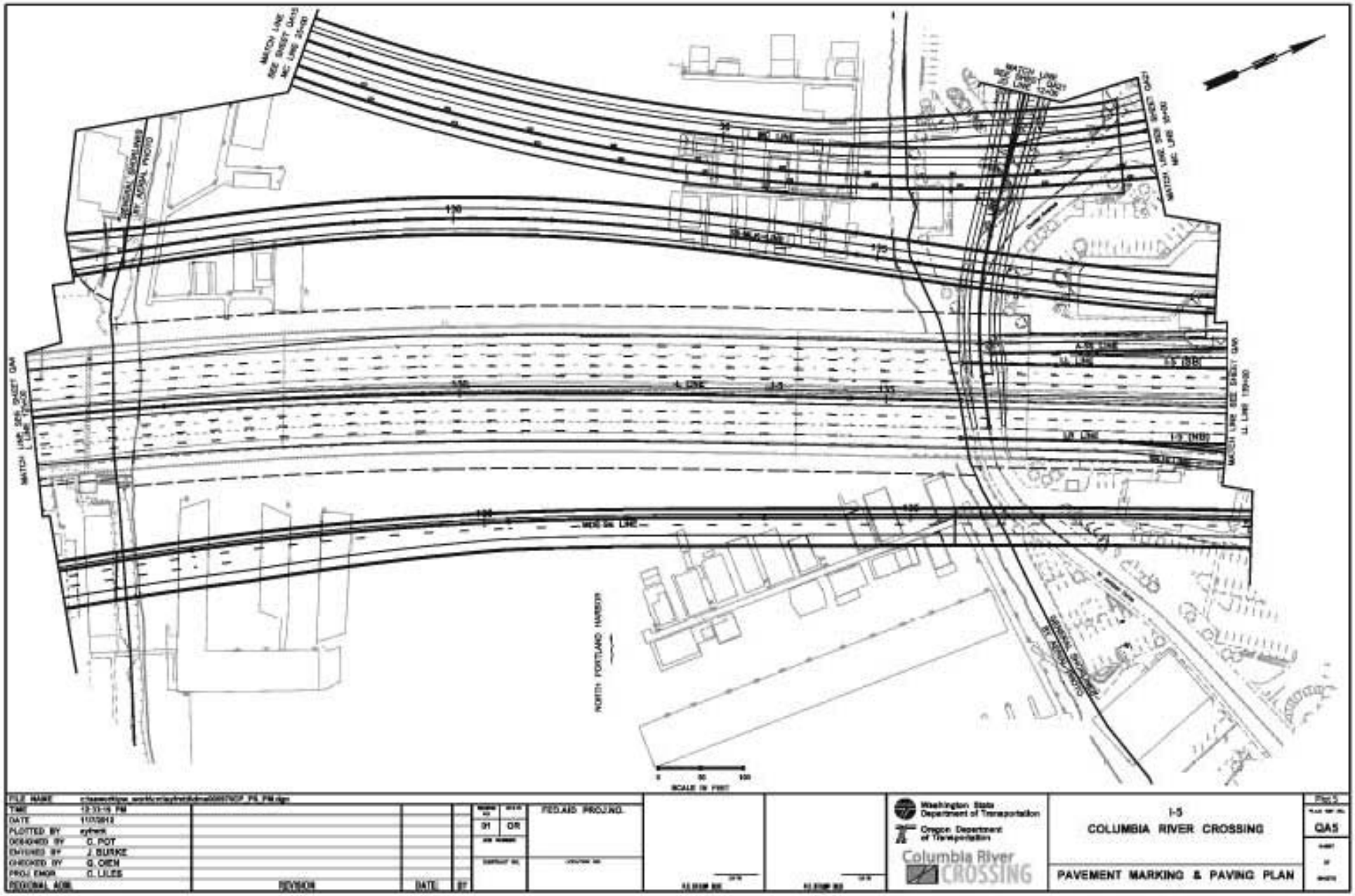
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING

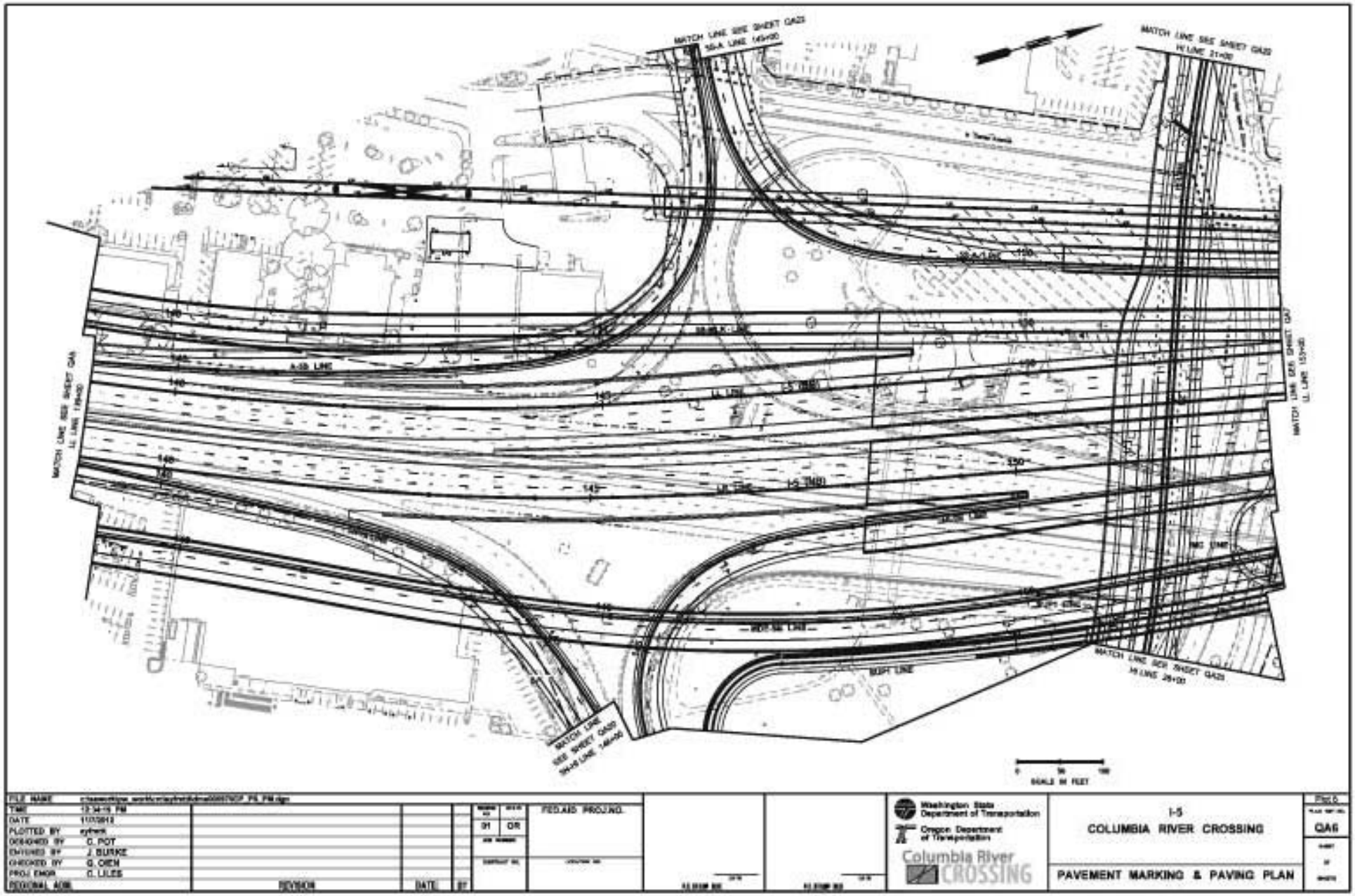

BEGIN PROJECT
INTERSTATE 5 MP 306.43
L 70+00.00 BK=
CONST. L 70+00.00 AHD
70
75
80
L LINE
I-5
MATCH LINE SEE SHEET QA2
L LINE 83+00
COORDINATES ARE REPORTED IN THE LOCAL DATUM PLANE (LDP) SYSTEM USED IN RECORD OF SURVEY CRC CENTERLINE RESOLUTION RECORDED AUGUST 19, 2010, BOOK 61 OF SURVEYS, PAGE 12. TO CONVERT THEM TO STATE PLANE COORDINATES ON THE WASHINGTON COORDINATE SYSTEM OF 1983, SOUTH ZONE, MULTIPLY THEM BY THE LDF FACTOR 0.9999462403. DISTANCE COMPUTED FROM THESE LDF COORDINATES MAY BE 10 TO 18 PARTS PER MILLION LARGER THAN MEASURED ON THE GROUND. FOR PRECISE CONTROL MEASUREMENTS OVER LONG DISTANCES, COMPUTATIONS SHOULD BE PERFORMED USING STATE PLANE, NOT LDF, COORDINATES.
SCALE IN FEET
FILE NAME
TIME 12:32:04 PM
DATE 11/7/2012
PLOTTED BY sylwia
DESIGNED BY C. POT
ENTERED BY J. BURKE
CHECKED BY G. CHEN
PROJ. ENGR. C. LILES
REGIONAL ADM.
REVISION
DATE
BY
01
OR
FED.AID PROJ.NO.
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA1

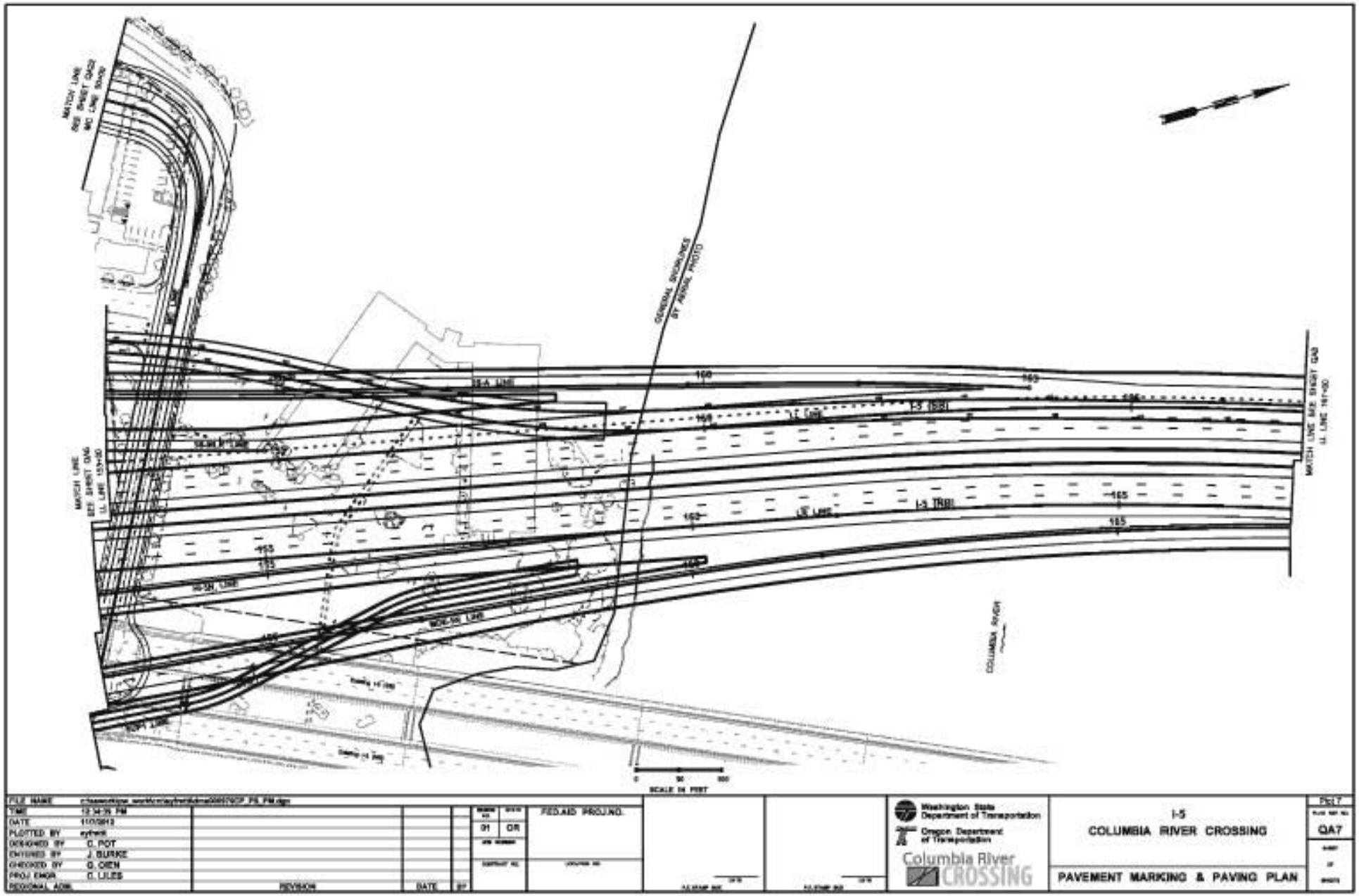

MATCH LINE SEE SHEET QA1
L LINE STA 0+00
MATCH LINE SEE SHEET QA3
L LINE STA 0+00
L LINE I-5
SCALE IN FEET
FILE NAME
TIME
DATE
PLOTTED BY
DESIGNED BY
DRAWN BY
CHECKED BY
PROJ ENGR
REGIONAL ADM.
REVISION
DATE
BY
FEDAID PROJ.NO.
01
OR
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA2

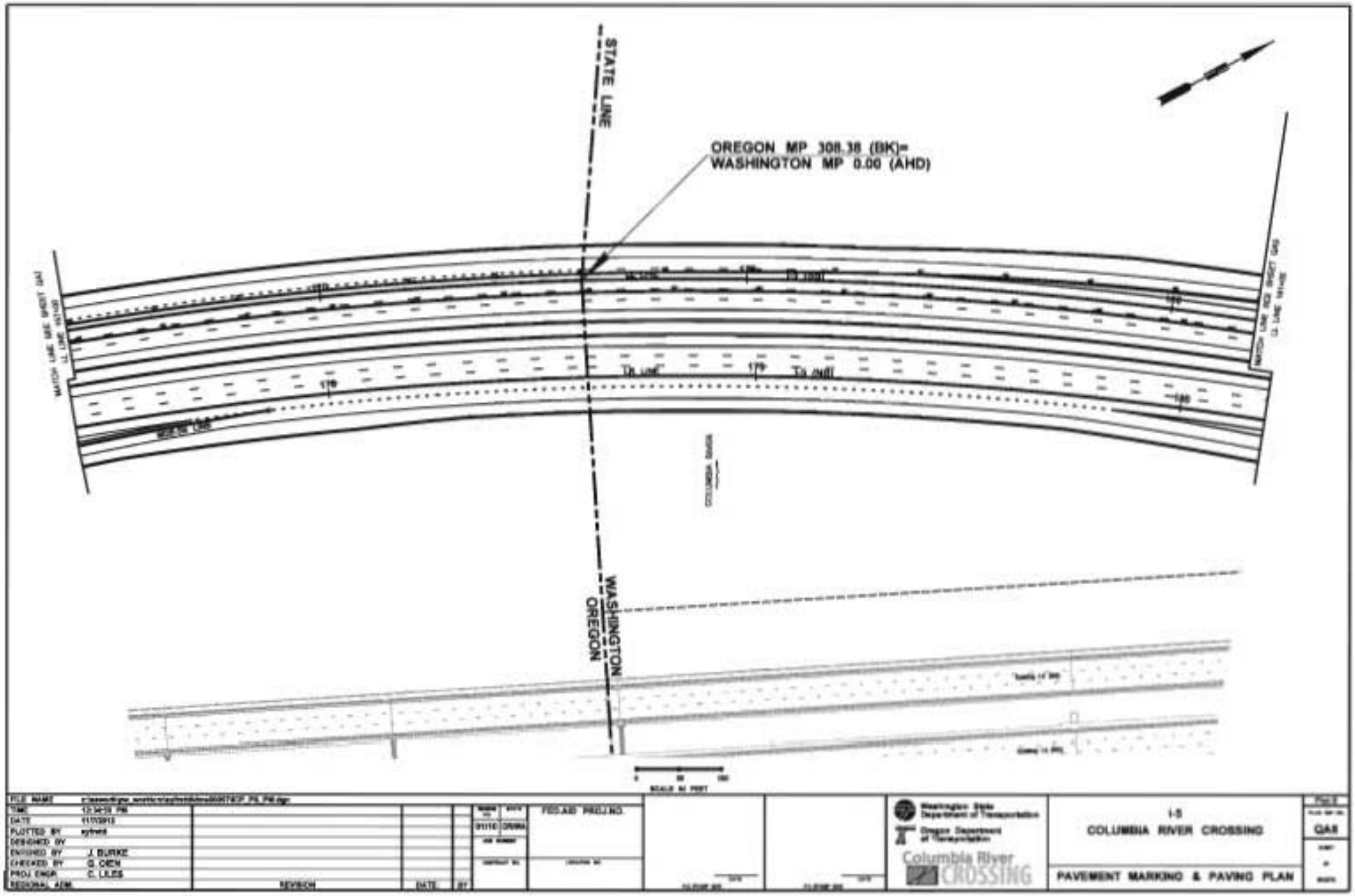

MATCH LINE SEE SHEET QA2
L LINE 311+00
MATCH LINE SEE SHEET QA4
L LINE 111+00
SCALE IN FEET
FILE NAME
TIME
DATE
PLOTTED BY
DESIGNED BY
ENTERED BY
CHECKED BY
PROJ ENGR.
REGIONAL ADM.
C. POT
J. BURKE
G. OIEN
C. LILES
REVISION
DATE
BY
FED.AID PROJ.NO.
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA3

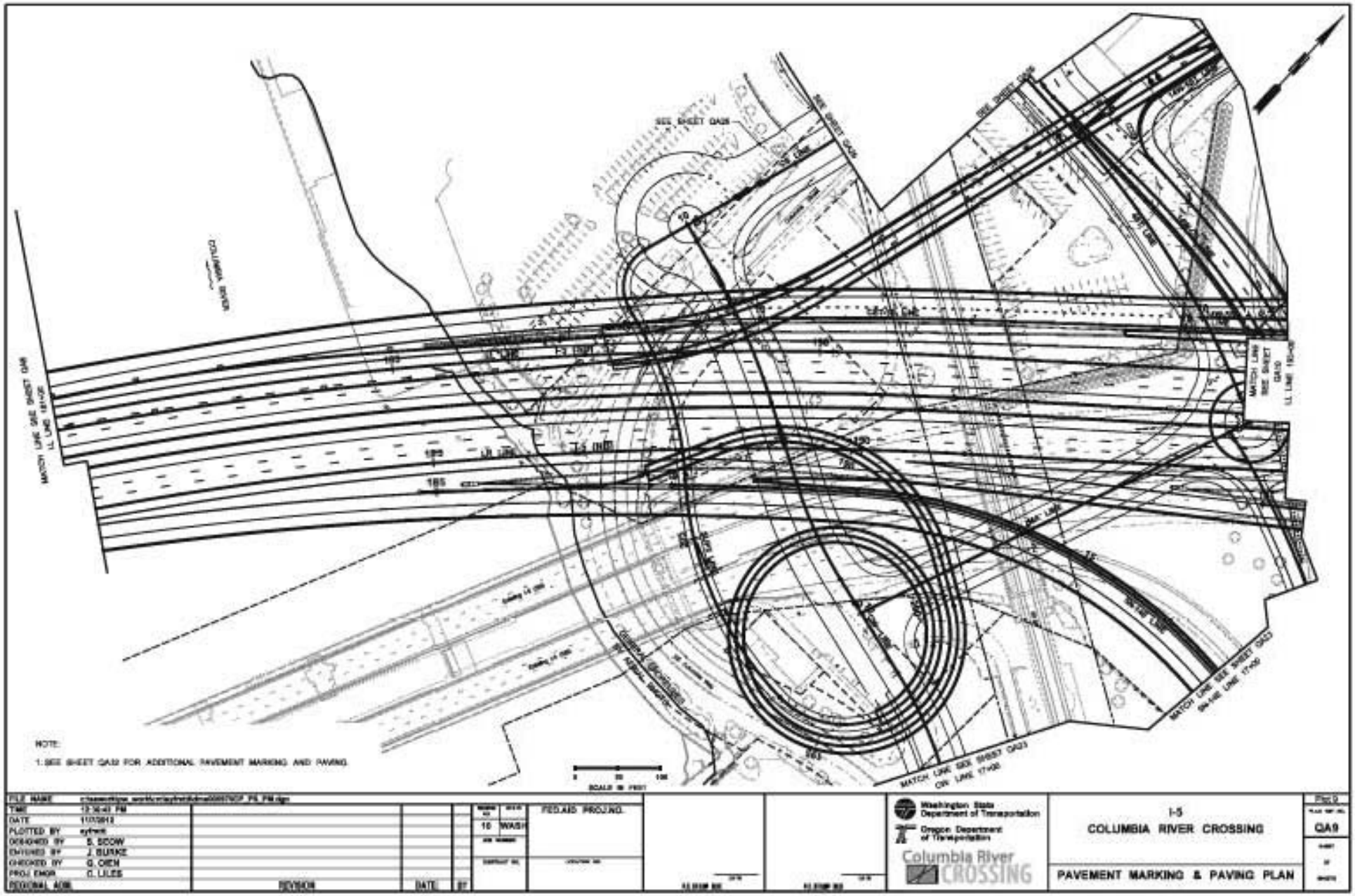

MATCH LINE SEE SHEET QA15
MATCH LINE SEE SHEET QA15
MATCH LINE SEE SHEET QA15
MATCH LINE SEE SHEET QA17
MATCH LINE SEE SHEET QA17
MATCH LINE SEE SHEET QA17
MATCH LINE SEE SHEET QA17
SCALE IN FEET
FEDLAID PROJ.NO.
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA4

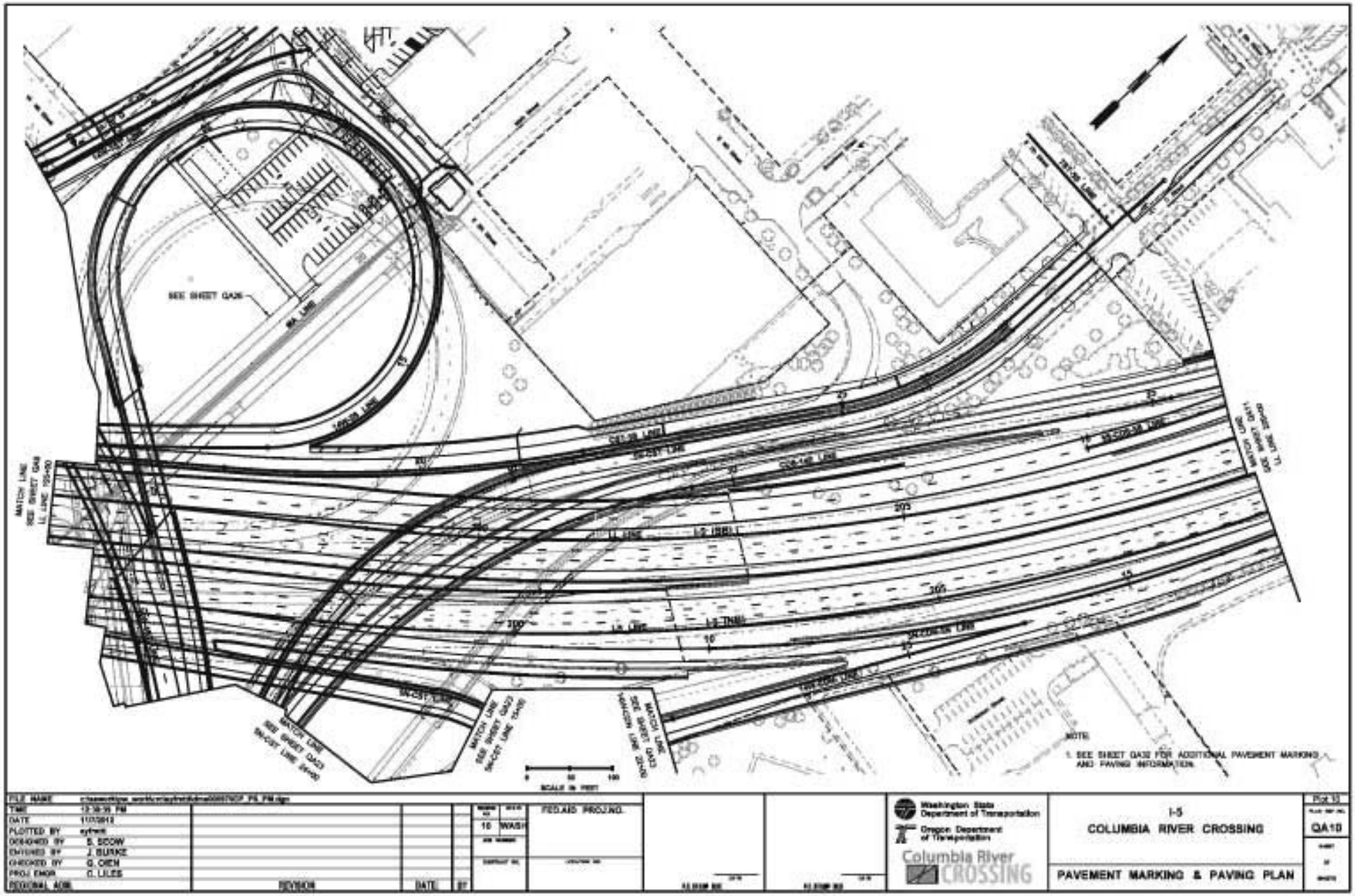

MATCH LINE
SEE SHEET QA3
MC LINE 2+00
MATCH LINE
SEE SHEET QA5
MC LINE 12+00
MATCH LINE SEE SHEET QA4
LL LINE 7+00
MATCH LINE SEE SHEET QA6
LL LINE 17+00
GENERAL SCHEMATIC
BY ACKNOWLEDGMENT
MC LINE
LL LINE
I-5
I-5 (SB)
I-5 (NB)
NORTH PORTLAND HARBOR
SCALE IN FEET
FILE NAME
TIME
DATE
PLOTTED BY
DESIGNED BY C. POT
DRAWN BY J. BURKE
CHECKED BY G. OREN
PROJ ENGR C. LILES
REGIONAL ADM.
REVISION
DATE
BY
FEDAID PROJ NO.
01
OR
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA5

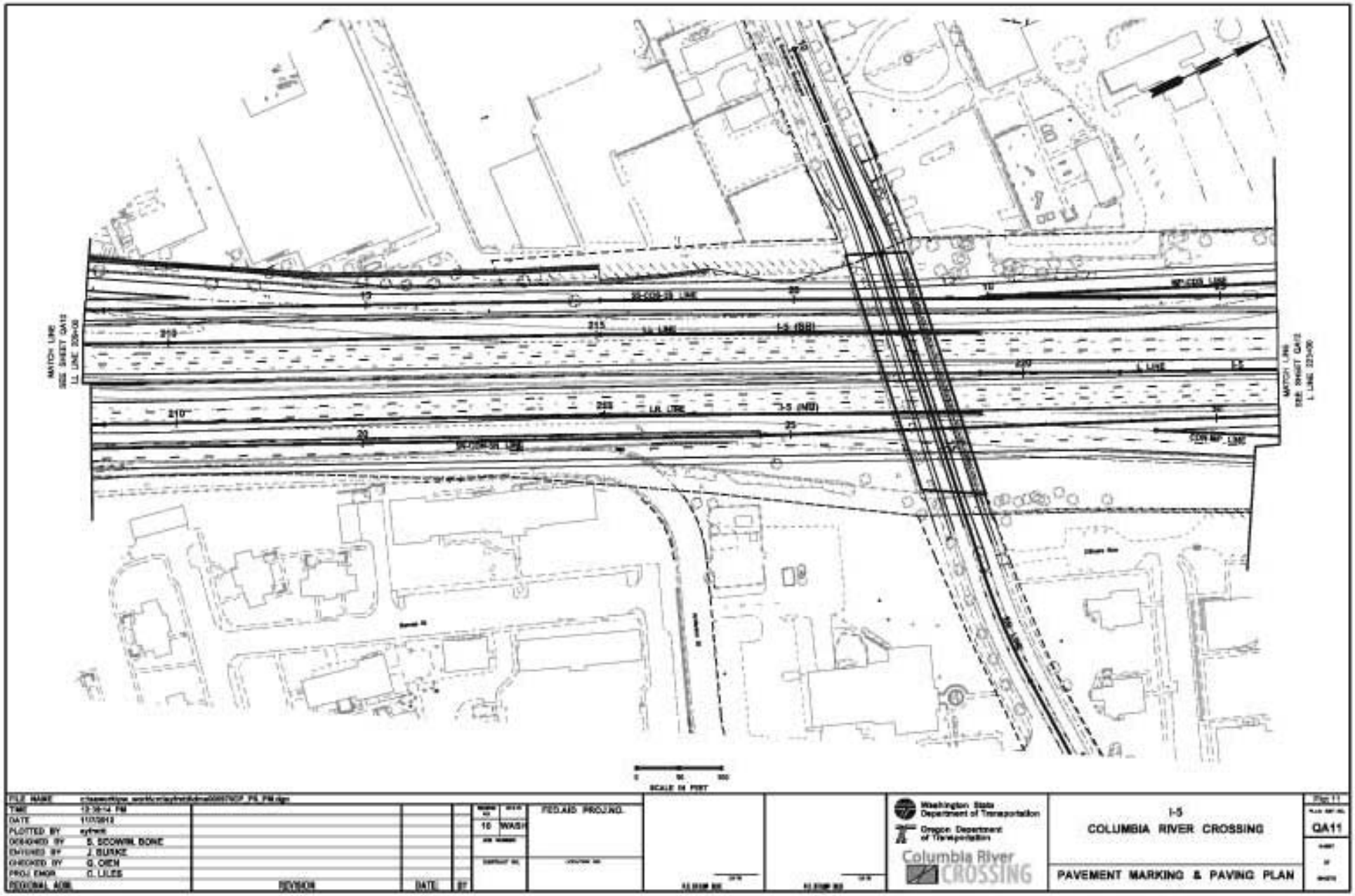

MATCH LINE SEE SHEET QA23
SB-A LINE 145+00
MATCH LINE SEE SHEET QA23
HI LINE 21+00
MATCH LINE SEE SHEET QA23
LL LINE 19+00
MATCH LINE SEE SHEET QA23
LL LINE 15+00
MATCH LINE SEE SHEET QA23
HI LINE 28+00
MATCH LINE SEE SHEET QA23
SB-B LINE 140+00
A-SB LINE
LL LINE
I-5 (NB)
I-5 (SB)
NBR LINE
SBR LINE
SCALE IN FEET
FILE NAME
TIME
DATE
PLOTTED BY
DESIGNED BY C. POT
DRAWN BY J. BURKE
CHECKED BY G. OREN
PROJ ENGR C. LILES
REGIONAL ADM.
REVISION
DATE
BY
FEDAID PROJ.NO.
01
OR
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA6

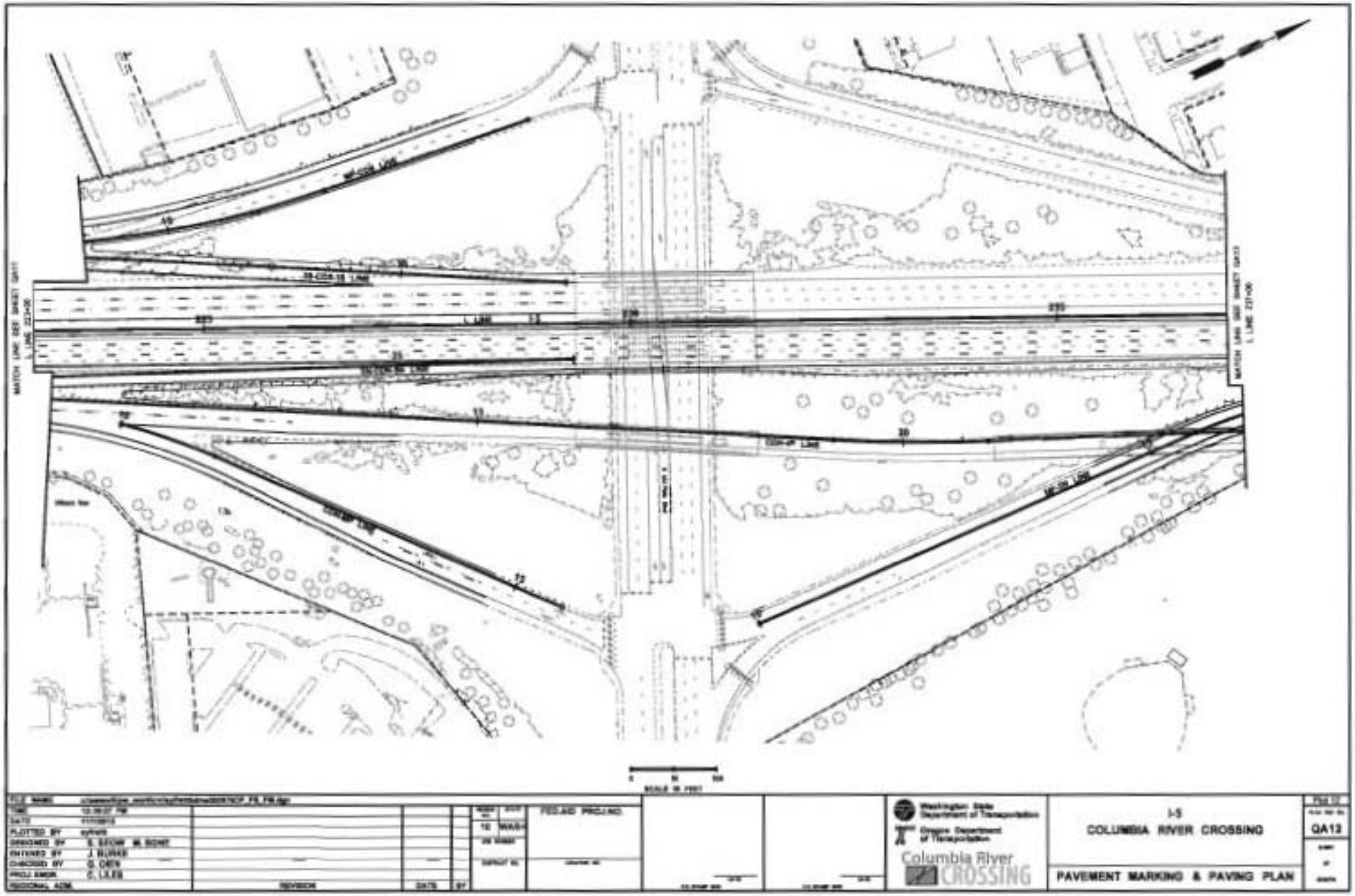

MATCH LINE
SEE SHEET QA6
MATCH LINE
SEE SHEET QA8
I-5 (SB)
I-5 (NB)
COLUMBIA RIVER
SCALE IN FEET
FEDAID PROJ.NO.
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA7
REVISION
DATE
DESIGNED BY
DRAWN BY
CHECKED BY
PROJ ENGR
REGIONAL ADM.

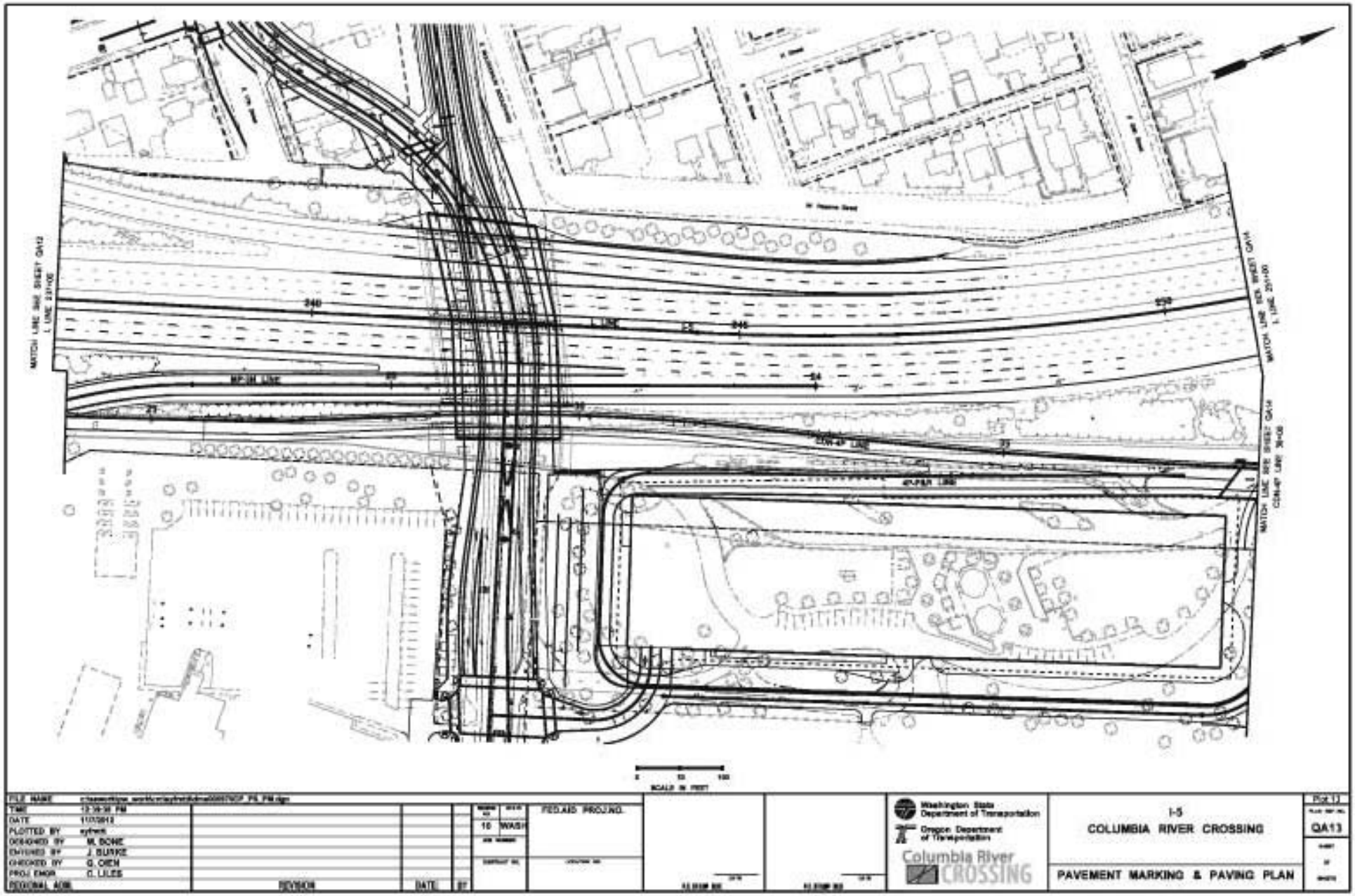

STATE LINE
OREGON MP 308.38 (BK)=
WASHINGTON MP 0.00 (AHD)
WASHINGTON
OREGON
COLUMBIA RIVER
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
Columbia River CROSSING
QA8

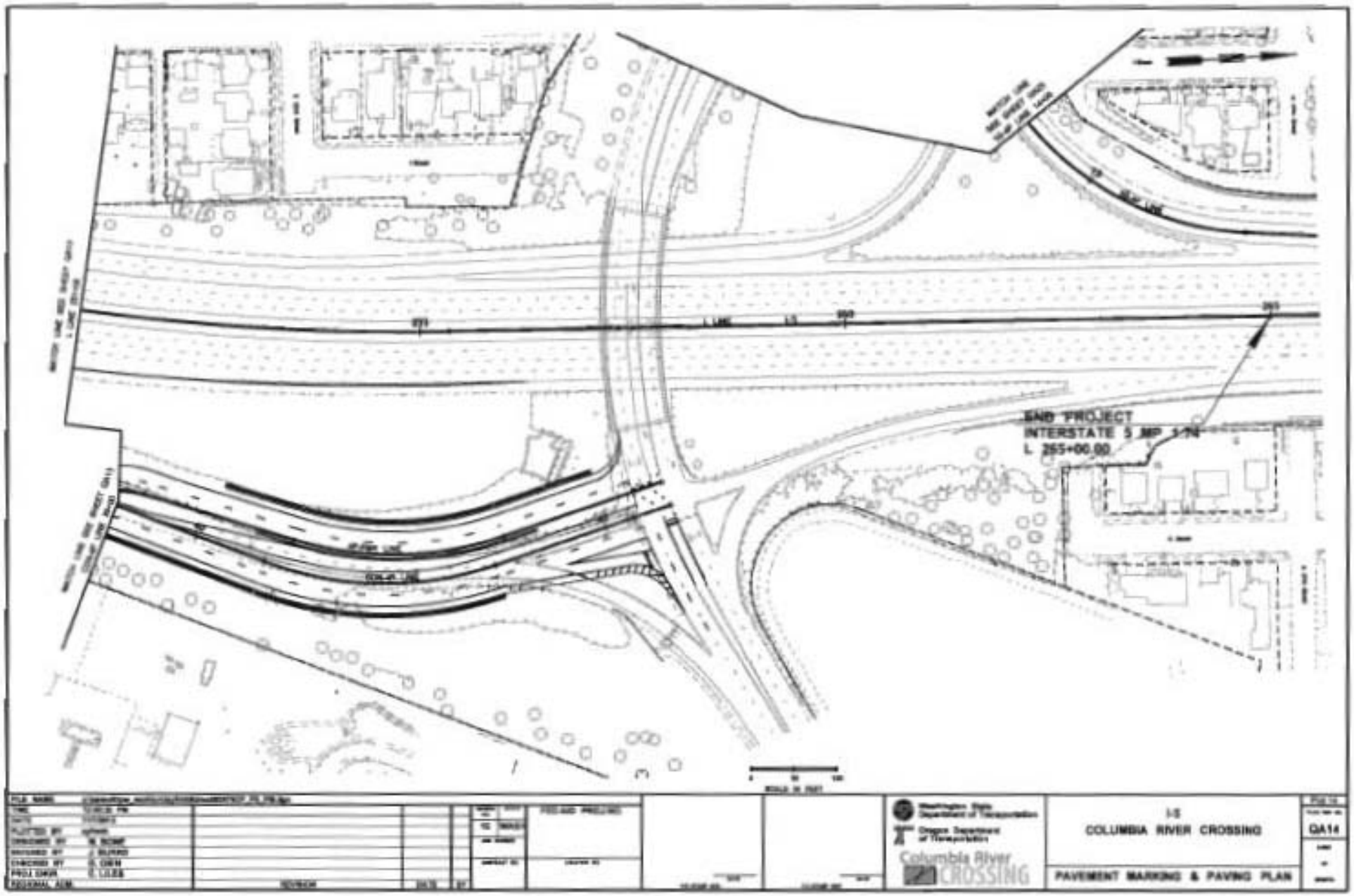

NOTE:
1. SEE SHEET QA22 FOR ADDITIONAL PAVEMENT MARKING AND PAVING.
SCALE IN FEET
FILE NAME
TIME
DATE
PLOTTED BY
DESIGNED BY S. SCOW
DRAWN BY J. BURKE
CHECKED BY G. OREN
PROJ ENGR C. LILES
REGIONAL ADM.
REVISION
DATE
BY
10 WASH
FED.AID PROJ.NO.
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA9

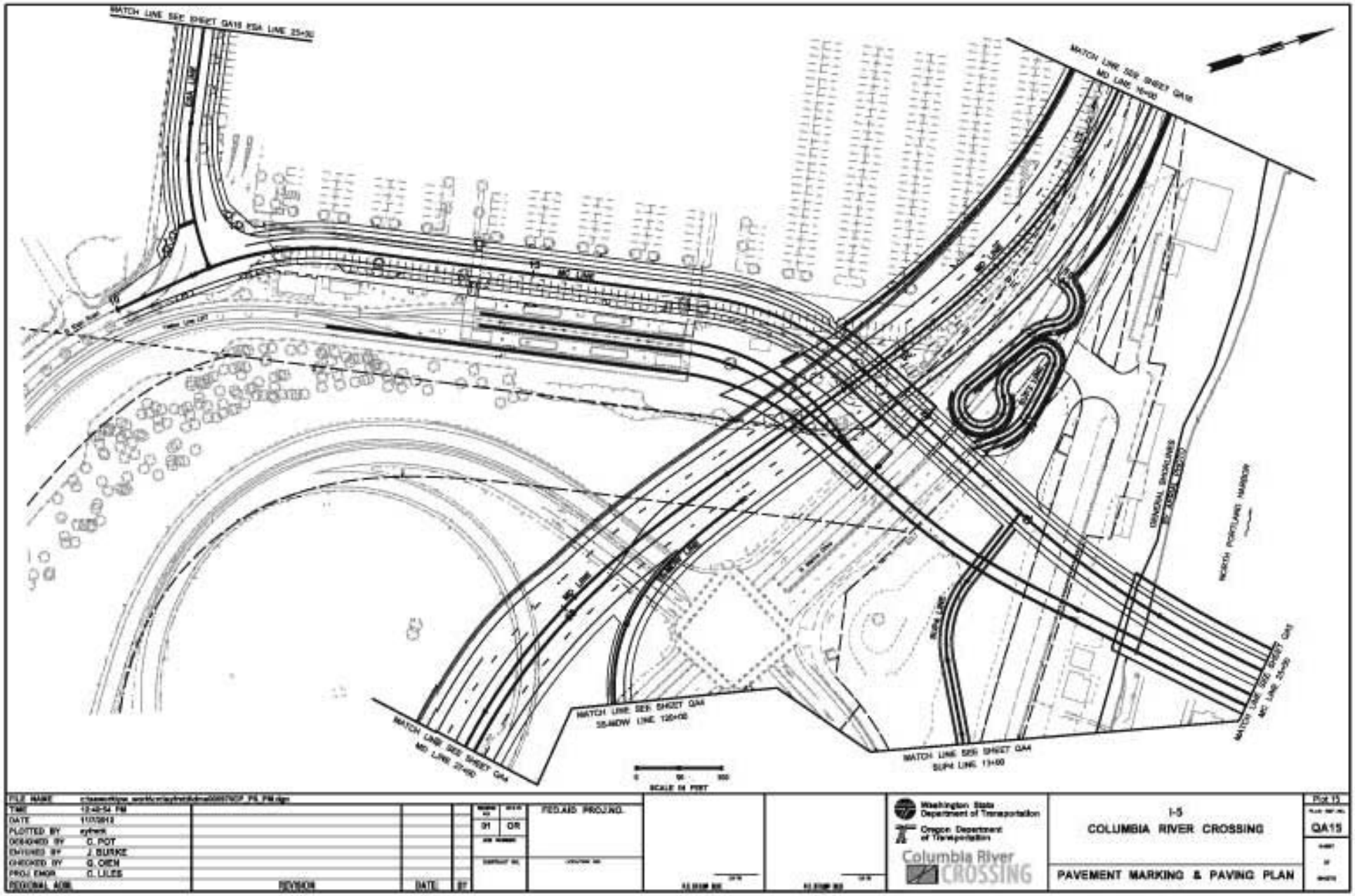

SEE SHEET QA36
MATCH LINE
SEE SHEET QA35
SCALE IN FEET
NOTE:
1. SEE SHEET QA32 FOR ADDITIONAL PAVEMENT MARKING AND PAVING INFORMATION.
FILE NAME
TIME
DATE
PLOTTED BY
DESIGNED BY S. SCOW
DRAWN BY J. BURKE
CHECKED BY G. OREN
PROJ ENGR C. LILES
REGIONAL ADM.
REVISION
DATE
BY
FEDAID PROJ.NO.
10 WASH
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA10

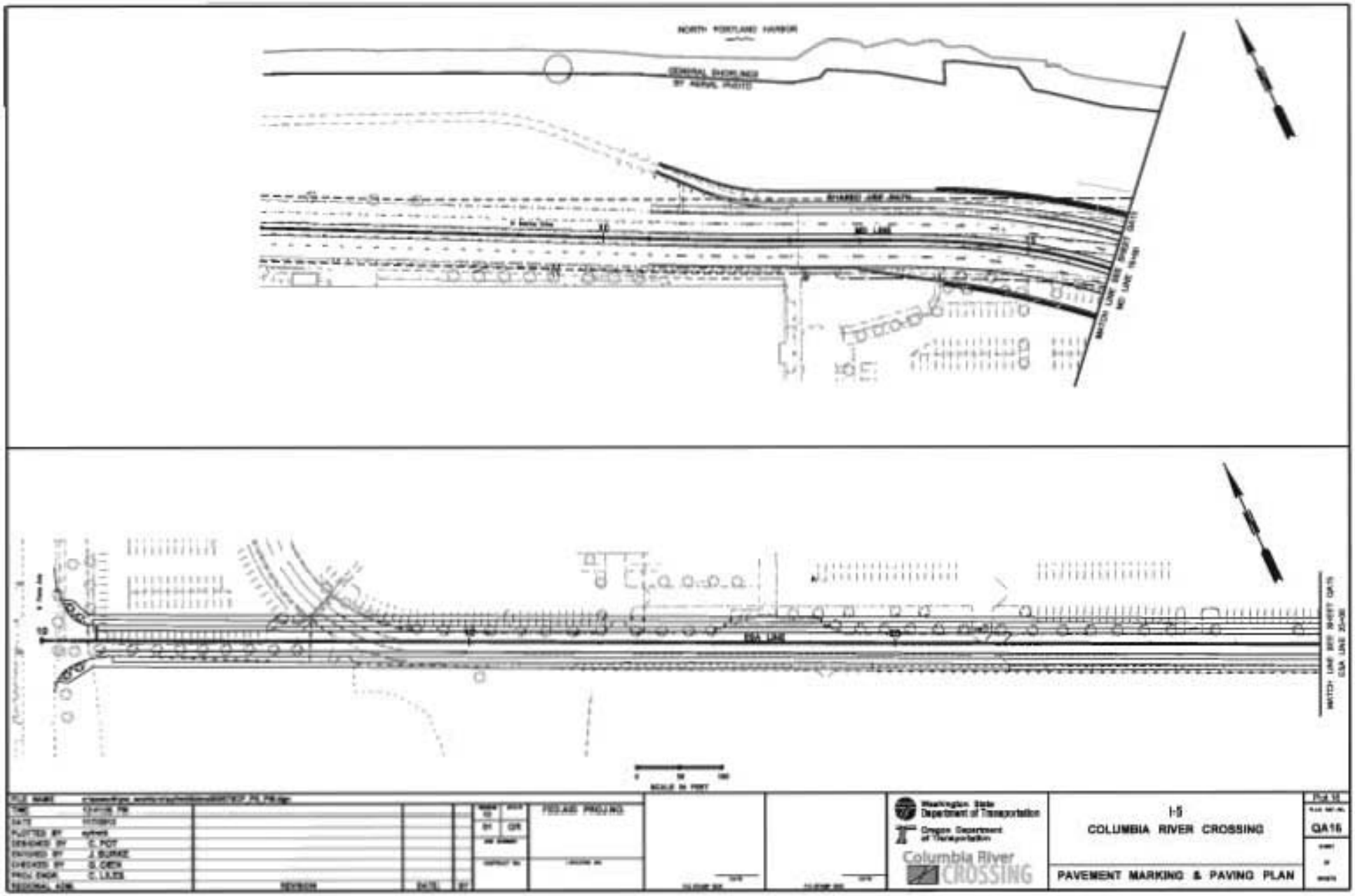

MATCH LINE
SEE SHEET QA12
L1 LINE 225+00
I-5 (SB)
I-5 (NB)
L LINE
MATCH LINE
SEE SHEET QA12
L LINE 223+00
SCALE IN FEET
FILE NAME
TIME
DATE
PLOTTED BY
DESIGNED BY S. SCOWIN, BONE
DRAWN BY J. BURKE
CHECKED BY G. CHEN
PROJ ENGR C. LILES
REGIONAL ADM.
REVISION
DATE
BY
10 WASH
FEDAID PROJ.NO.
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA11

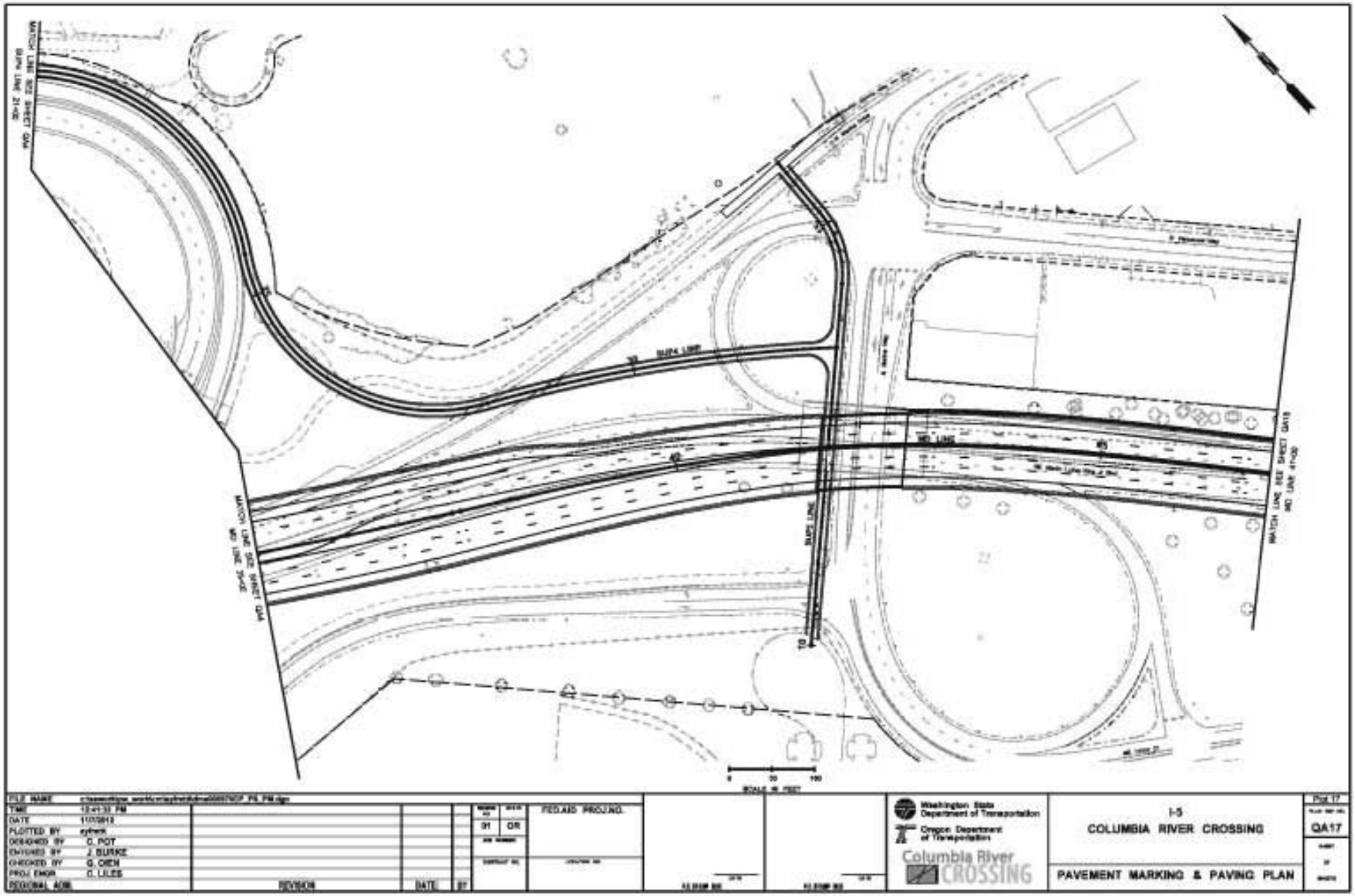

I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA13
Columbia River CROSSING

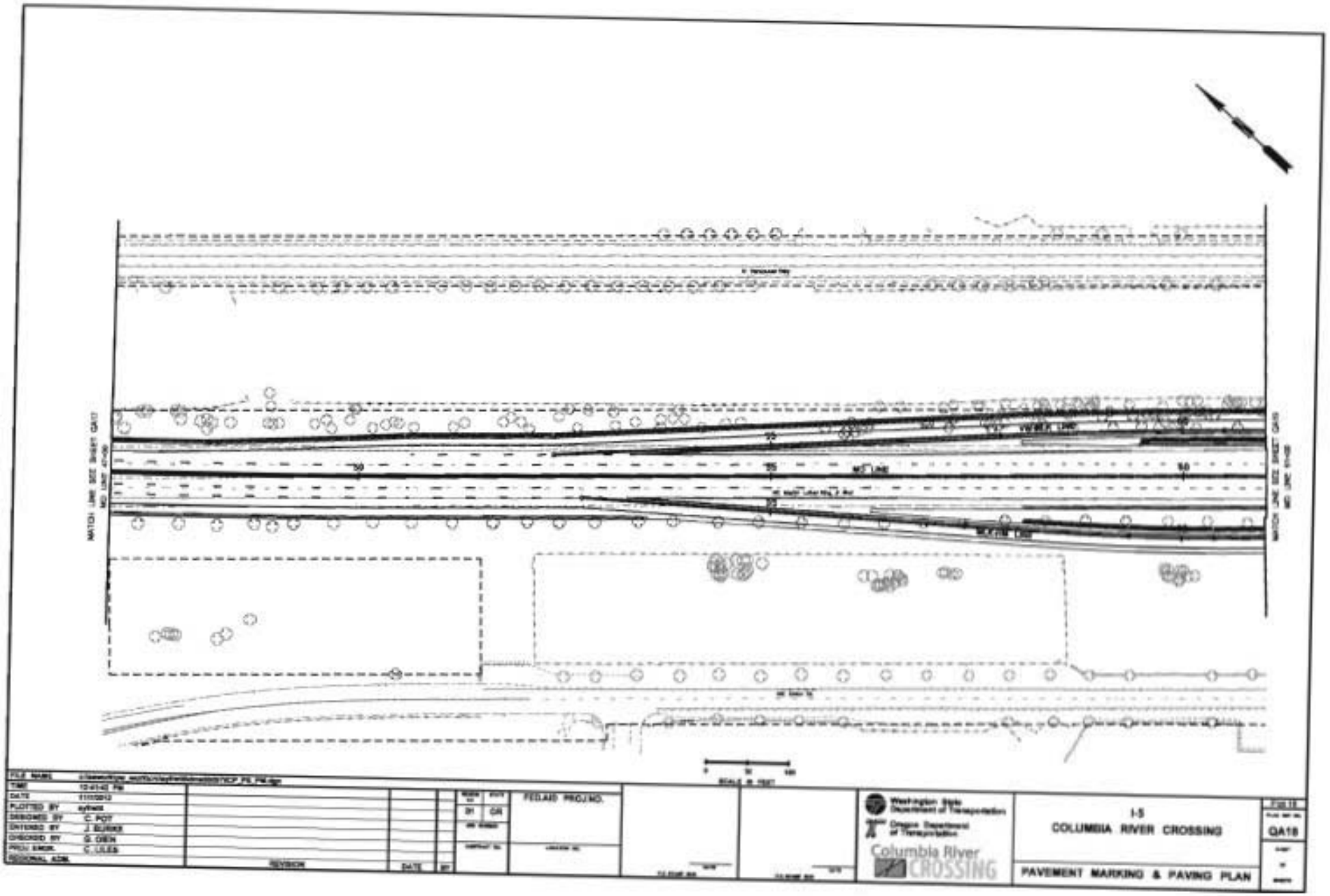

MATCH LINE SEE SHEET QA12
L LINE 237+00
MATCH LINE SEE SHEET QA14
L LINE 251+00
MATCH LINE SEE SHEET QA14
CON-4P LINE 36+00
MP-3R LINE
CON-4P LINE
4UPER LINE
L LINE
240
245
250
SCALE IN FEET
FILE NAME
TIME
DATE
PLOTTED BY
DESIGNED BY M. BOHE
DRAWN BY J. BURKE
CHECKED BY G. CHEN
PROJ ENGR C. LILES
REGIONAL ADM.
REVISION
DATE
BY
10 WASH
FEDAID PROJ.NO.
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA13

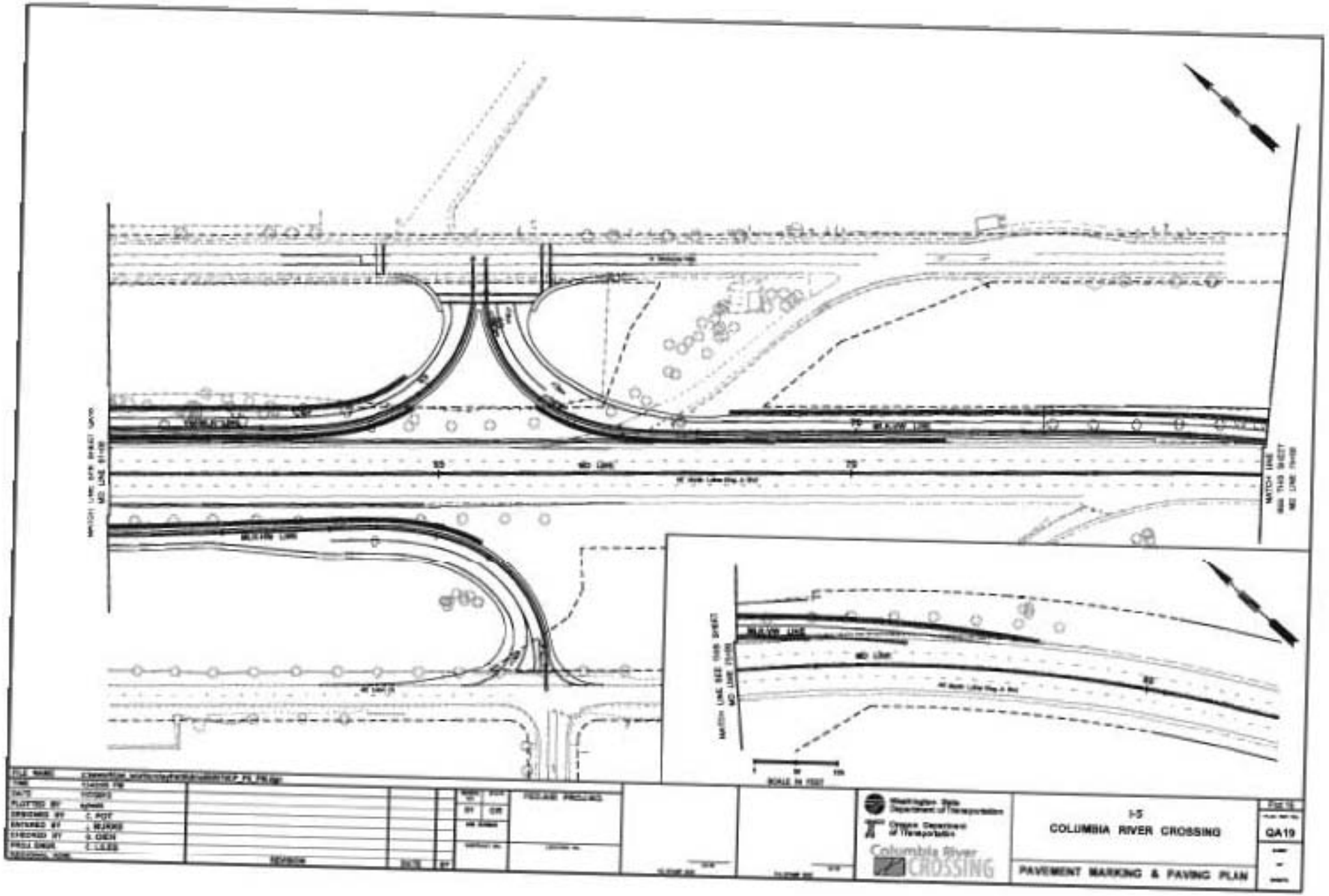

SAND PROJECT
INTERSTATE 5 MP
L 265+00.00
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA14
Columbia River CROSSING

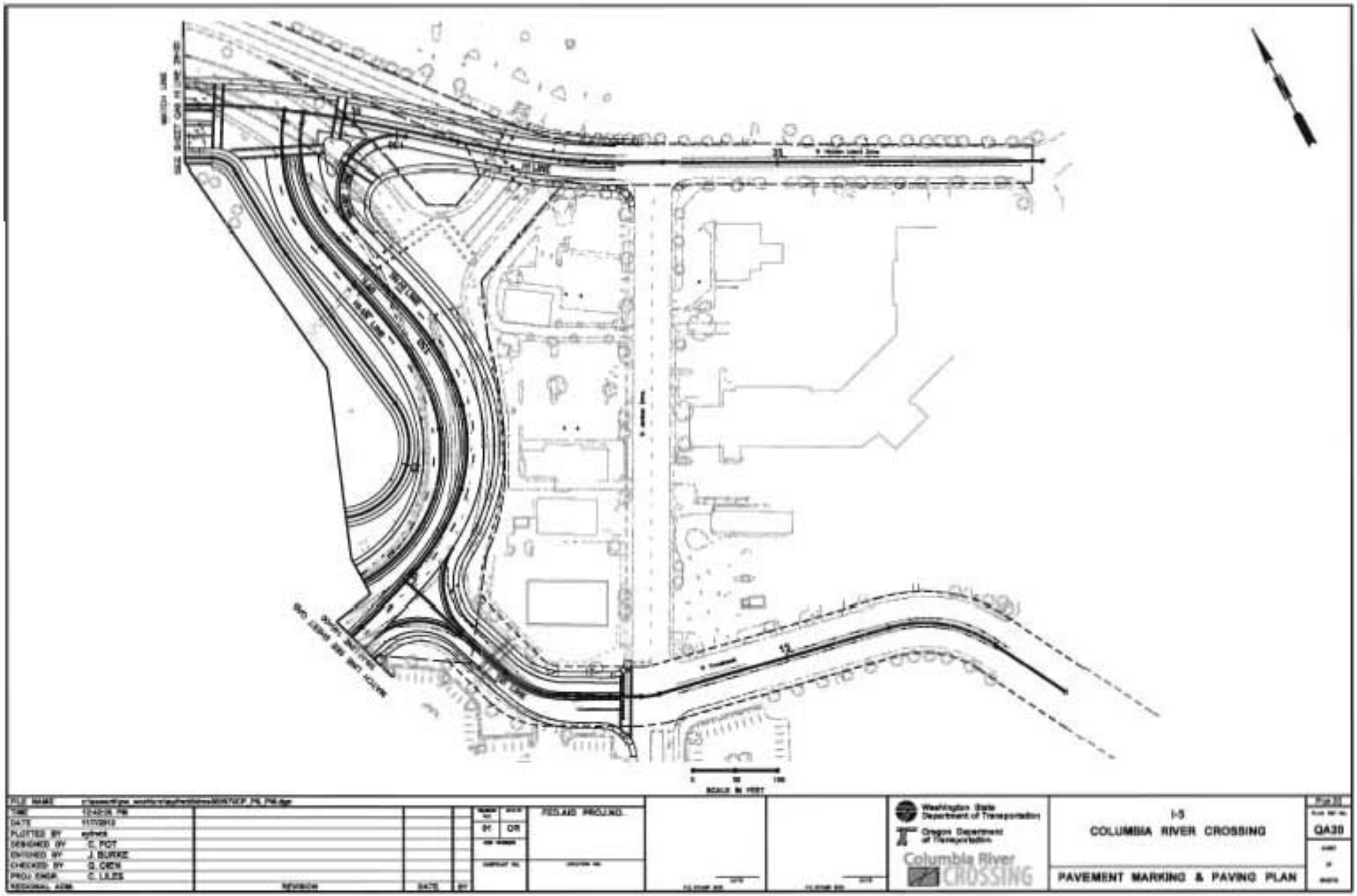

MATCH LINE SEE SHEET QA16 PSH LINE 25+50
MATCH LINE SEE SHEET QA16
MD LINE 16+00
MATCH LINE SEE SHEET QA4
SB-NOW LINE 120+00
MATCH LINE SEE SHEET QA4
MD LINE 22+00
MATCH LINE SEE SHEET QA4
SUPH LINE 13+00
MATCH LINE SEE SHEET QA4
MC LINE 23+50
ORIGINAL SHORELINES
NORTH PORTLAND HARBOR
SCALE IN FEET
FILE NAME
TIME 12:42:54 PM
DATE 11/12/2012
PLOTTED BY sylvesk
DESIGNED BY C. POT
DRAWN BY J. BURKE
CHECKED BY G. OREN
PROJ ENGR C. LILES
REGIONAL ADM.
REVISION
DATE
BY
FEDERAL PROJ NO.
01
OR
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
Plot 13
QA15

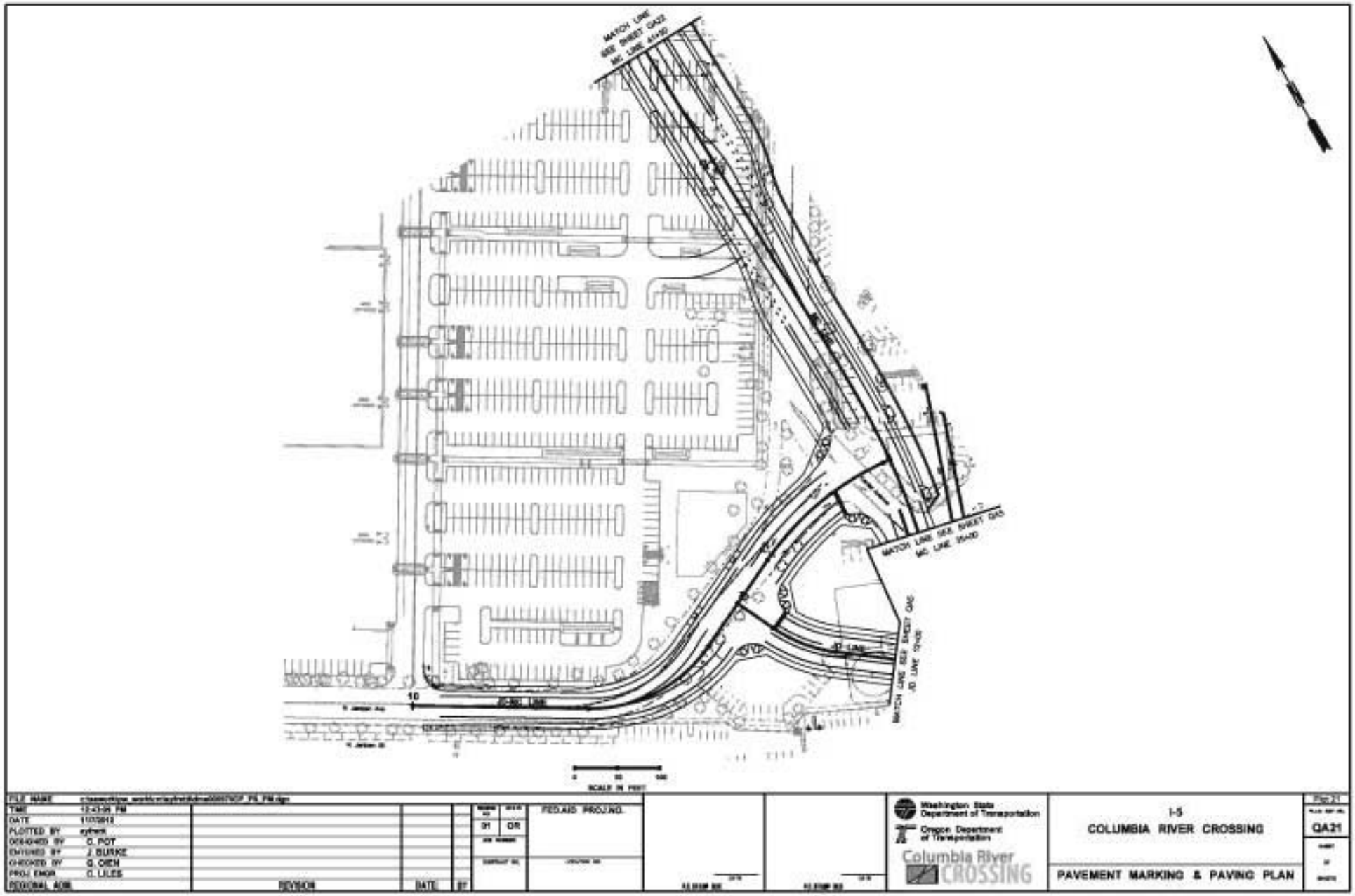

NORTH PORTLAND HARBOR
MATCH LINE SEE SHEET QA15
MATCH LINE SEE SHEET QA15
SCALE IN FEET
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA16

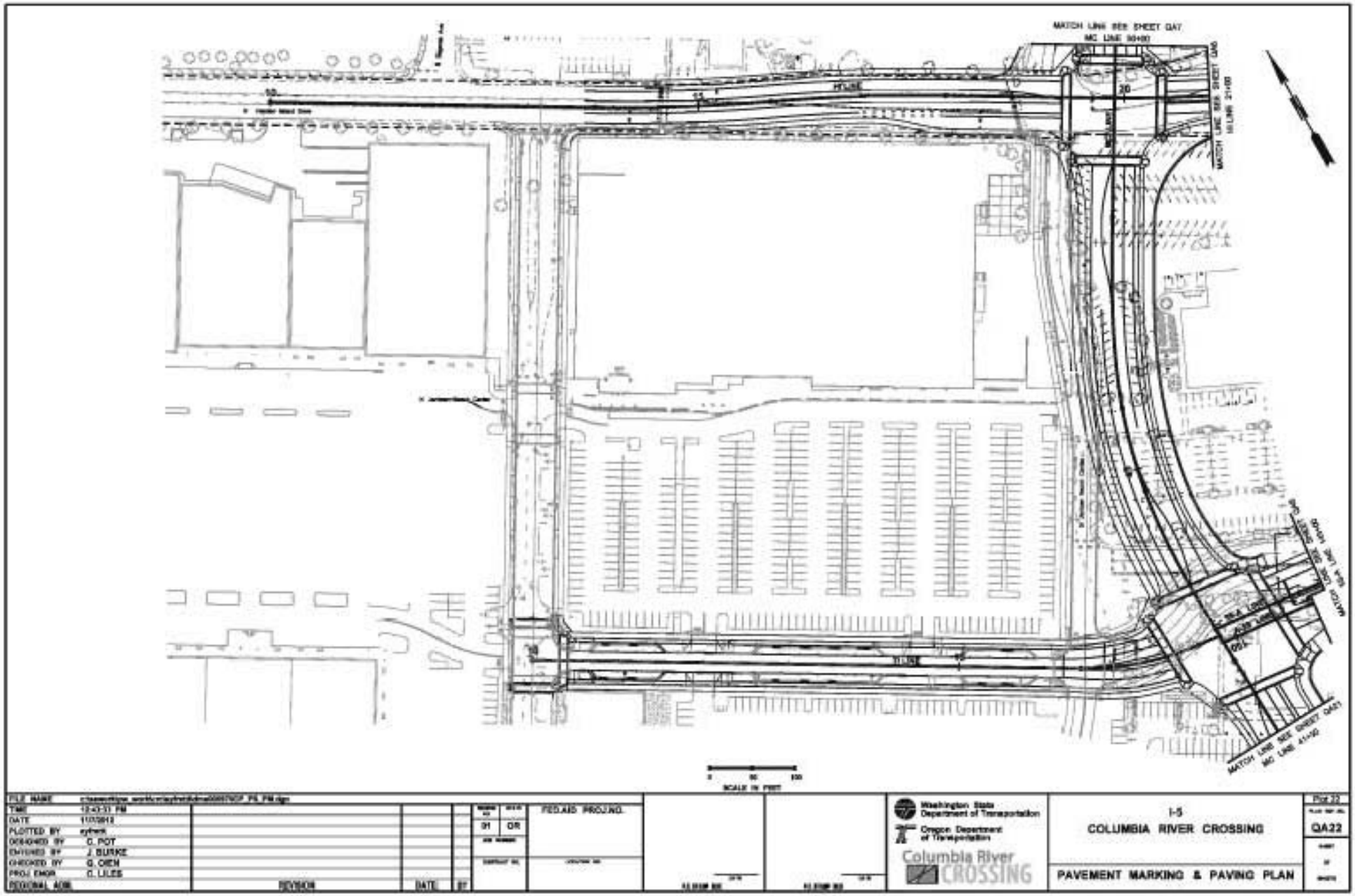

MATCH LINE SEE SHEET QA16
SB LINE
SB LINE
SB LINE
NB LINE
NB LINE
MATCH LINE SEE SHEET QA18
NB LINE
SCALE IN FEET
FILE NAME
TIME
DATE
PLOTTED BY
DESIGNED BY
ENGINEER BY
CHECKED BY
PROJ ENGR
C. POT
J. BURKE
G. OREN
C. LILES
REGIONAL ADM.
REVISION
DATE
BY
01
OR
FEDAID PROJ.NO.
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA17

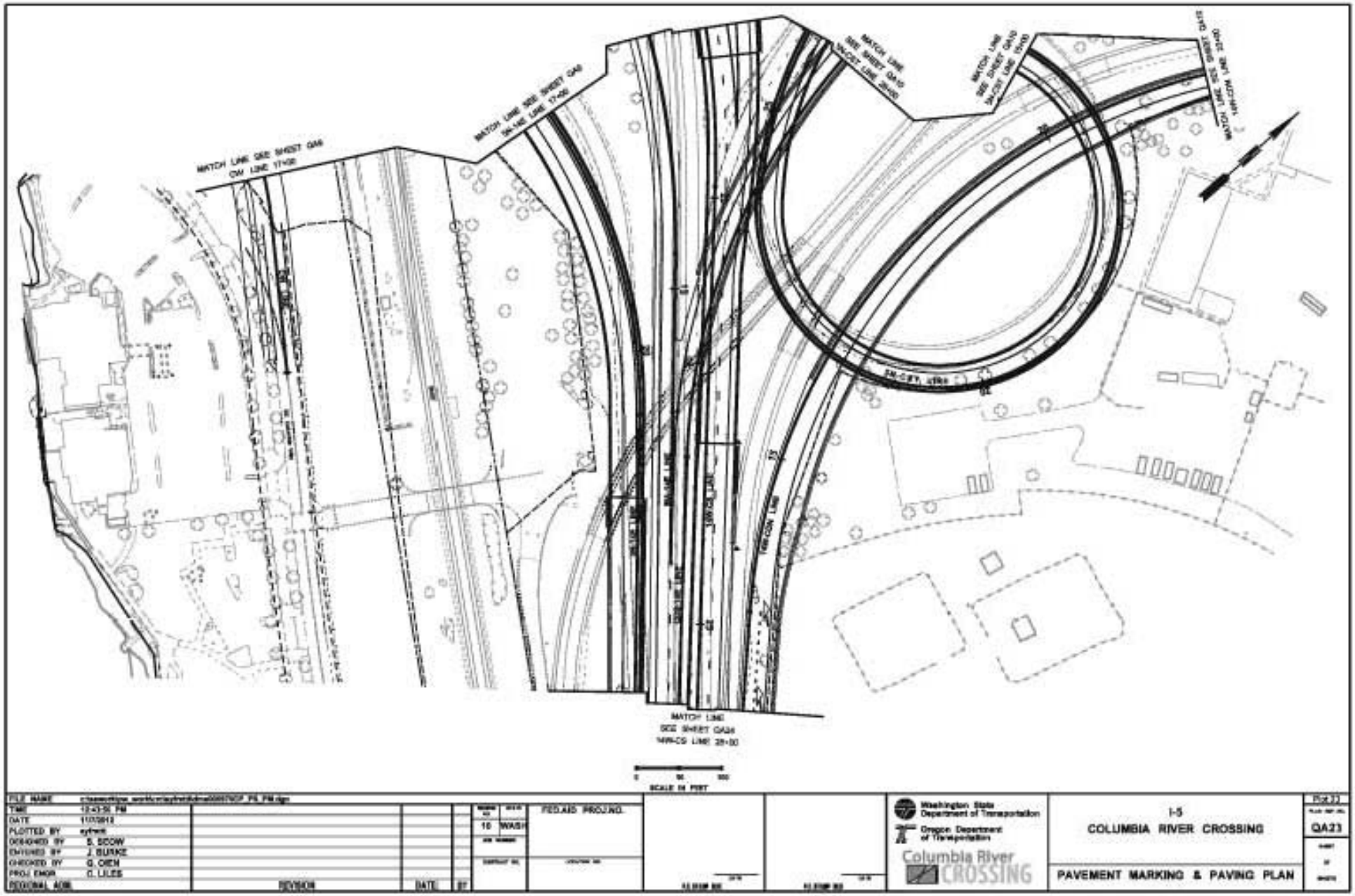

I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA18
FEDAID PROJ.NO.
Columbia River CROSSING

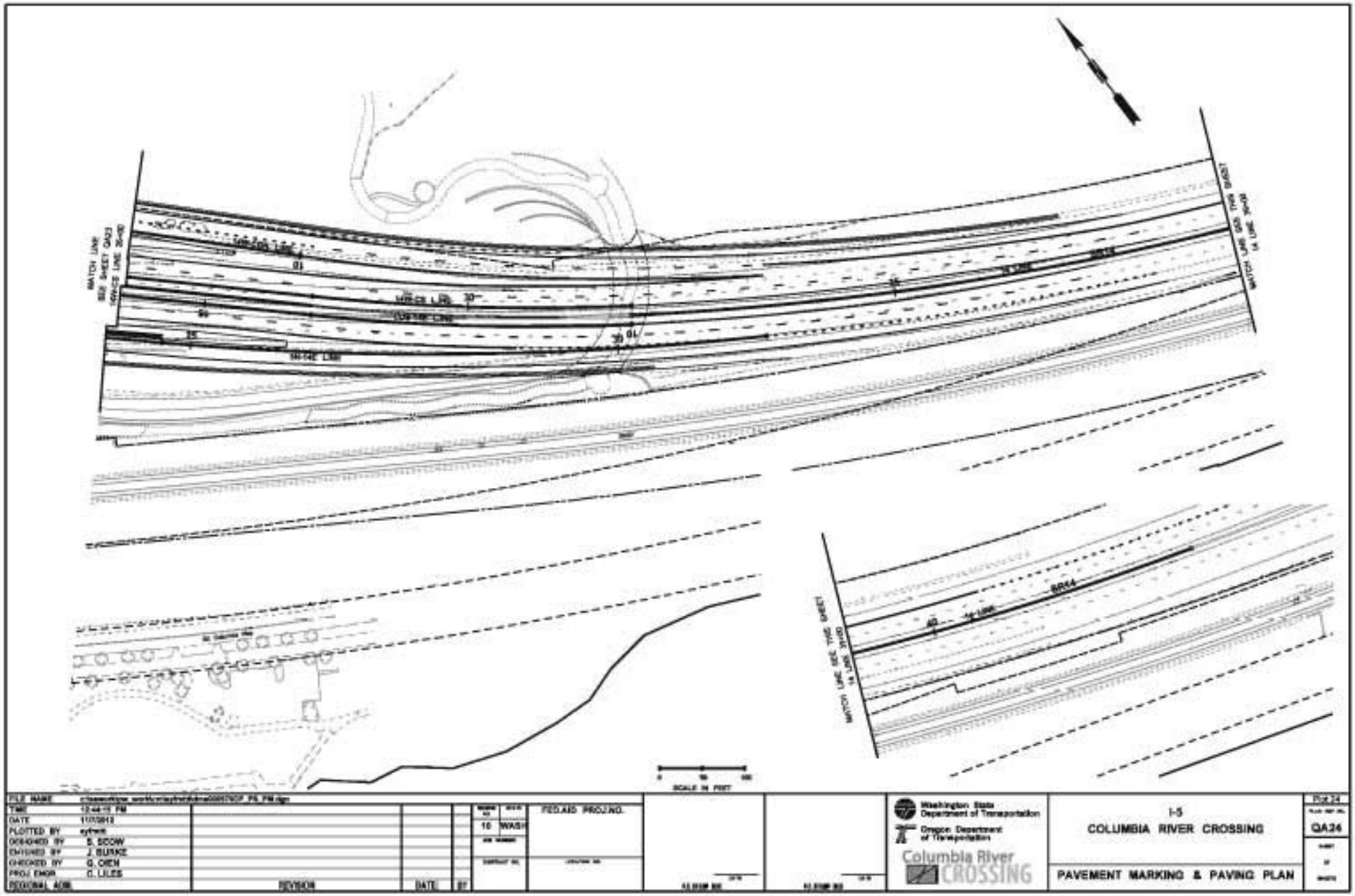

I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA19
Columbia River CROSSING

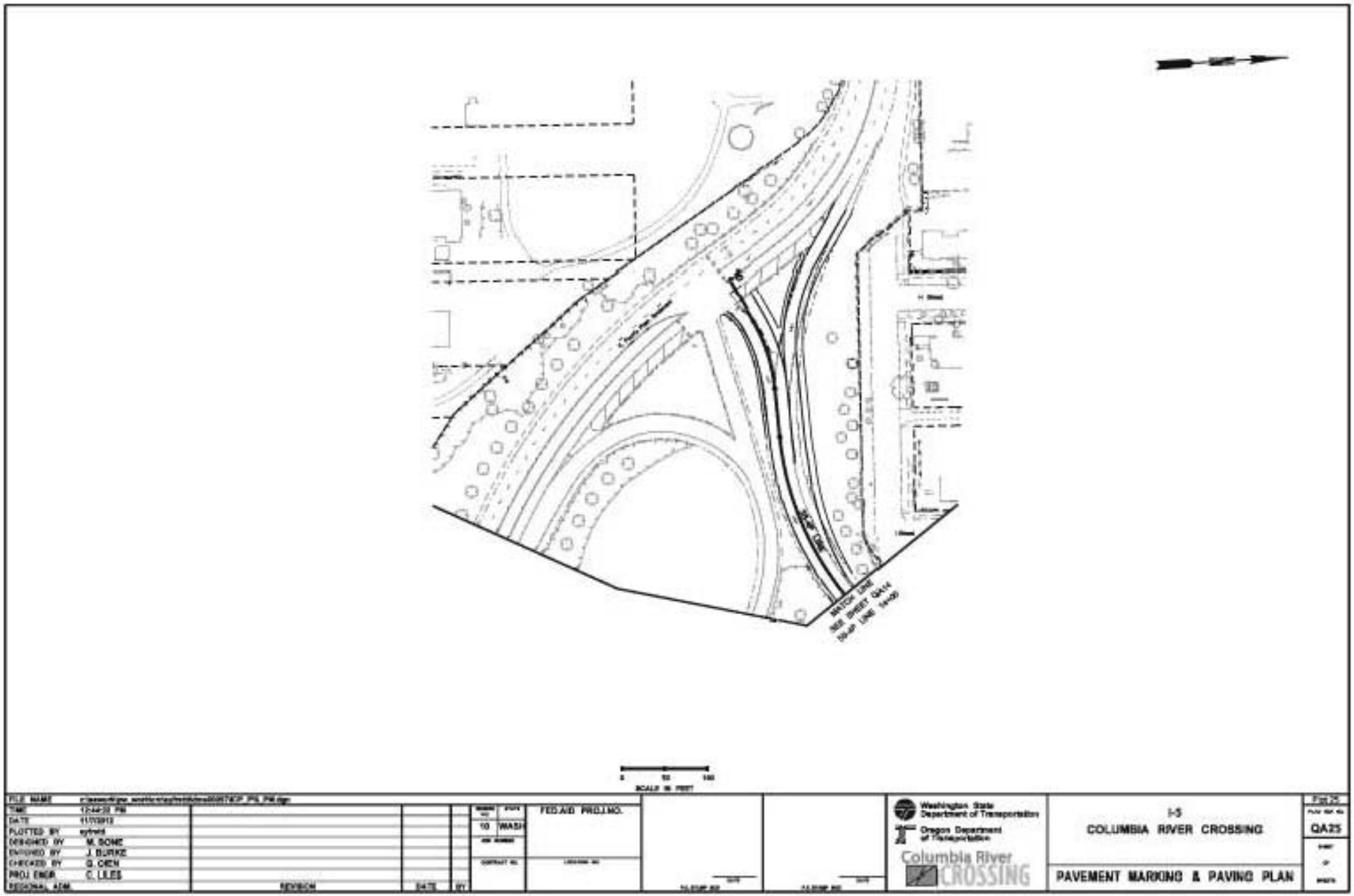

I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA30
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
C. POT
J. BURKE
G. CREN
C. LEES
SCALE IN FEET

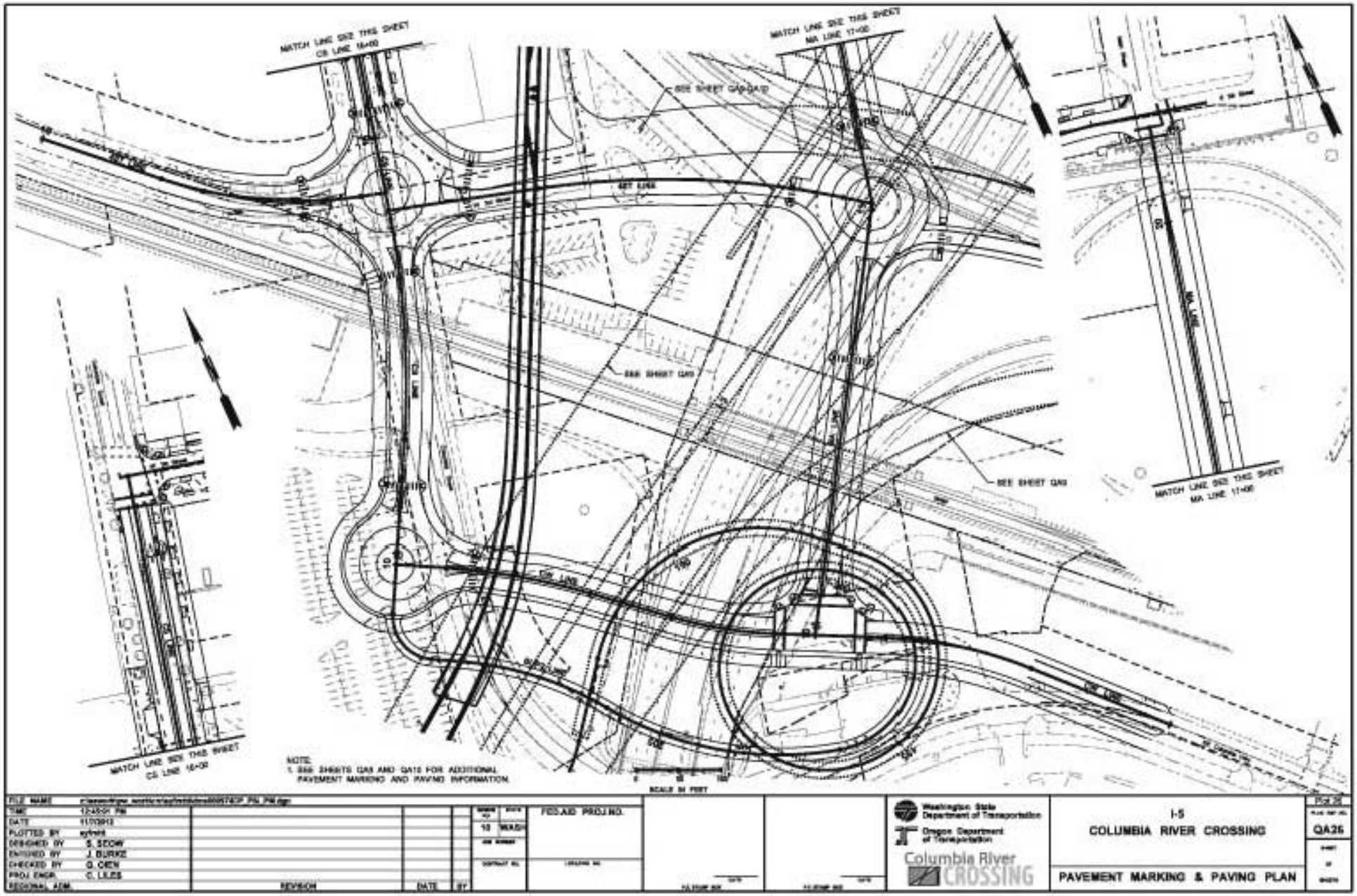

MATCH LINE
SEE SHEET QA22
MC LINE 41+00
MATCH LINE SEE SHEET QA5
MC LINE 35+00
MATCH LINE SEE SHEET QA5
JO LINE 12+00
JO LINE
10
SCALE IN FEET
FILE NAME
TIME
DATE
PLOTTED BY
DESIGNED BY C. POT
DRAWN BY J. BURKE
CHECKED BY G. OREN
PROJ ENGR C. LILES
REGIONAL ADM.
REVISION
DATE
BY
FEDAID PROJ.NO.
01
OR
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA21


MATCH LINE SEE SHEET QA7
MC LINE 30+00
MATCH LINE SEE SHEET QA9
MC LINE 21+00
MATCH LINE SEE SHEET QA21
MC LINE 41+00
SCALE IN FEET
FILE NAME
TIME
DATE
PLOTTED BY
DESIGNED BY C. POT
DRAWN BY J. BURKE
CHECKED BY G. OREN
PROJ ENGR C. LILES
REGIONAL ADM.
REVISION
DATE
BY
FEDAID PROJ.NO.
01
OR
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
Plot 22
QA22


MATCH LINE SEE SHEET QA6
ON LINE 17+00
MATCH LINE SEE SHEET QA8
ON LINE 15+00
MATCH LINE
SEE SHEET QA24
NWR-CS LINE 28+00
SCALE IN FEET
FILE NAME
TIME
DATE
PLOTTED BY
DESIGNED BY S. SCOW
DRAWN BY J. BURKE
CHECKED BY G. CHEN
PROJ ENGR C. LILES
REGIONAL ADM.
REVISION
DATE
BY
10 WASH
FEDAID PROJ.NO.
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA23


MATCH LINE
SEE SHEET QA23
MATCH LINE SEE SHEET QA25
SCALE IN FEET
FILE NAME
TIME
DATE
PLOTTED BY
DESIGNED BY
DRAWN BY
CHECKED BY
PROJ ENGR
REGIONAL ADM.
REVISION
DATE
BY
FEDAID PROJ.NO.
10 WASH
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA24


SCALE IN FEET
FILE NAME
TIME
DATE
PLOTTED BY
DESIGNED BY
DRAWN BY
CHECKED BY
PROJ ENGR
REGIONAL ADM.
REVISION
DATE
BY
FED.AID PROJ.NO.
WASH
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA25


MATCH LINE SEE THIS SHEET
CS LINE 16+00
MATCH LINE SEE THIS SHEET
MA LINE 17+00
SEE SHEET QA9/QA10
SEE SHEET QA9
SEE SHEET QA9
MATCH LINE SEE THIS SHEET
MA LINE 17+00
MATCH LINE SEE THIS SHEET
CS LINE 16+00
NOTE:
1. SEE SHEETS QA9 AND QA10 FOR ADDITIONAL PAVEMENT MARKING AND PAVING INFORMATION.
SCALE IN FEET
FILE NAME
TIME
DATE
PLOTTED BY
DESIGNED BY S. SCOW
ENTERED BY J. BURKE
CHECKED BY G. CIEN
PROJ ENGR C. LILES
REGIONAL ADM.
REVISION
DATE
BY
FED.AID PROJ.NO.
Washington State Department of Transportation
Oregon Department of Transportation
Columbia River CROSSING
I-5
COLUMBIA RIVER CROSSING
PAVEMENT MARKING & PAVING PLAN
QA26