



KING COUNTY

1200 King County Courthouse
516 Third Avenue
Seattle, WA 98104

Signature Report

FCD Motion

Proposed No. FCD20-03.1

Sponsors

1 A MOTION authorizing the chair to enter into a Letter of Agreement between the King
2 County Flood Control District and Muckleshoot Indian Tribe regarding the Lower
3 Russell Road Levee Setback Project in Kent, WA.

4 WHEREAS, the Lower Russell Road Levee is a key part of the Green River
5 levee system; and

6 WHEREAS, the King County Flood Control District ("District") desires to
7 improve the Levee ("the Project") to provide improved flood protection and habitat
8 restoration; and

9 WHEREAS, the District started construction of Phase 1 of the Project in
10 2019; and

11 WHEREAS, the Muckleshoot Indian Tribe ("Tribe") has federal treaty rights
12 protecting their historic fishing sites in the lower Green River; and

13 WHEREAS, the District and the Tribe ("the Parties") have consulted with the
14 United States Army Corps of Engineers("Corps") regarding the permit required prior
15 to construction of Phase 2 of the Project; and

16 WHEREAS, the Parties desire to proceed to Phase 2 of the Project in 2020;

17 NOW, THEREFORE, BE IT MOVED BY THE BOARD OF SUPERVISORS
18 OF THE KING COUNTY FLOOD CONTROL DISTRICT:

19 SECTION 1. The chair of the King County Flood Control District is authorized to

20 enter into the " Letter of Agreement between the King County Flood Control District and
21 Muckleshoot Indian Tribe regarding the Lower Russell Road Levee Setback Project in
22 Kent, WA," Attachment A to this motion.
23

FCD Motion was introduced on and passed by the King County Flood Control District on 1/14/2020, by the following vote:

Yes: 9 - Mr. von Reichbauer, Ms. Lambert, Mr. Dunn, Mr. McDermott, Mr. Dembowski, Mr. Upthegrove, Ms. Kohl-Welles, Ms. Balducci and Mr. Zahilay

KING COUNTY FLOOD CONTROL ZONE
DISTRICT
KING COUNTY, WASHINGTON



Dave Upthegrove, Chair

ATTEST:



Melani Pedroza, Clerk of the District

Attachments: A. Letter of Agreement between King County Flood Control District and Muckleshoot Indian Tribe regarding the Lower Russell Road Levee Setback Project in Kent, WA

LETTER OF AGREEMENT BETWEEN KING COUNTY FLOOD CONTROL DISTRICT
AND
MUCKLESHOOT INDIAN TRIBE REGARDING THE LOWER RUSSELL ROAD LEVEE
SETBACK PROJECT IN KENT, WA

This letter confirms the understanding and commitments between the Muckleshoot Indian Tribe (“Tribe”) and the King County Flood District (“District”), regarding the proposed Lower Russell Road Levee Setback Project located in Kent as described in U.S. Army Corps of Engineers Reference Number NWS-2017-0912-a and shown on the attached project drawings labeled “Lower Russell Road Phase 2” dated November 27, 2019.

The Tribe and the King County Flood Control District agree as follows:

Eddy sites for fishing

As a partial mitigation for impacts to two existing known fishing sites, the District will construct the six proposed eddy sites shown on the attached Sheets CSP14 through CSP19.

Fishing site trails

The District will construct gravel trails leading from the existing trails on both sides of the Green River to all six eddy sites to provide Tribal fishers with easier upland access to fishing sites. These trails are generally shown on attached Sheets CSP14 through CSP19 and will be designed cooperatively with the Tribal Fisheries Commissioners and the District.

Upland access issues

The Lower Russell Road project area/relocated Van Doren’s Park and Frager Road/trail side of the Green River both need to be open for tribal members to exercise their fishing rights without interference from gate closures or posted park hours. The District will ensure that all relevant agencies are aware of this agreement and the obligation to provide access for all treaty fishing activities.

If the access to both sides of the lower Green River in the project area is controlled by gates or bollards, then the following items are needed to provide access to fishing sites:

- A written agreement from the King County Flood District and the City of Kent that the Tribe’s members have access to their fishing sites in perpetuity.
- The Tribe will be able to use their own lock(s) on gates and bollards, as needed to ensure members have access to both sides of the river between Veteran’s Drive and S 212th Street (i.e. the project area).

Signage

In order to facilitate better understanding of potential Tribal fisheries in the area for park and trail users and others, the District agrees to provide mutually agreeable signage and information regarding Tribal fishing on the property, which may include, but is not limited to, any notices received from the Tribe regarding upcoming Tribal fishery dates in the area.

Adaptive Management plan

The District will work with the Tribe to cooperatively develop a mutually acceptable adaptive management plan that provides pre/post project construction data and analyses to ensure that the constructed eddy sites sufficiently function for successful tribal fishing. The plan will also include potential contingency actions and a schedule for implementation, as needed, to improve, modify, or restore the eddy sites for fishing. In the event that any of the six eddy sites for fishing do not result in successful fishing sites even with contingency actions, the District will work with the Tribe to find alternative sites on the lower Green River to create and/or enhance fishing sites. Once an alternative eddy site for fishing has been determined, the District will design, permit, and construct the new alternative eddy site for fishing.

Boat launch uses

The Tribe will be allowed to use the new boat launch for jetboats, research boats, tribal fishers boats, and any other watercraft type as needed for tribal fisheries, research, and enforcement.

The Muckleshoot Indian Tribe agrees to transmit a letter to the U.S. Army Corps of Engineers, referencing the Lower Russell Road Levee Setback Phase 2 project (U.S. Army Corps of Engineers Reference Number NWS-2017-0912-a), stating that the Tribe does not oppose the issuance of federal permit approval for the project. This letter will be sent no later than five business days following execution of this agreement.

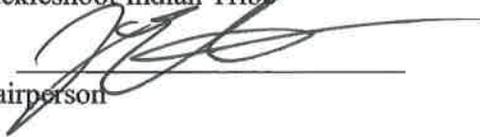
This Agreement shall be binding on the District, and any and all of its successors or assigns in interest, as owners of the project and any easements granted for this project. The parties therefore agree that this Agreement, or a Memorandum of this Agreement in a form mutually acceptable to the parties, shall be recorded.

The foregoing represents the entire agreement between the parties with respect to the Project. This Agreement relates solely to the development of the Lower Russell Road Levee Setback Phase 2 Project in Kent (as described in U.S. Army Corps of Engineers' Nationwide Permit Reference Number NWS-2017-0912-a and attached construction drawings).

Letter of Agreement – Muckleshoot Indian Tribe and King County Flood Control District
Lower Russell Road Levee Setback Project NWS-2017-0912-a

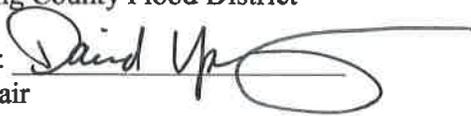
This Agreement does not preclude the Tribe from pursuing any violation of local, state, or federal authorizations held by the District for the referenced project or local, state, and federal laws and regulations applicable to the referenced project. The Tribe is not precluded from commenting on or challenging any modification to the referenced project other than those specifically identified in this Agreement, but the Tribe shall not comment on or challenge lawful maintenance and repair of the facility, including improvements included in the Project. Nothing in this Agreement is intended to or should be construed to define the nature and scope of treaty fishing rights.

Muckleshoot Indian Tribe

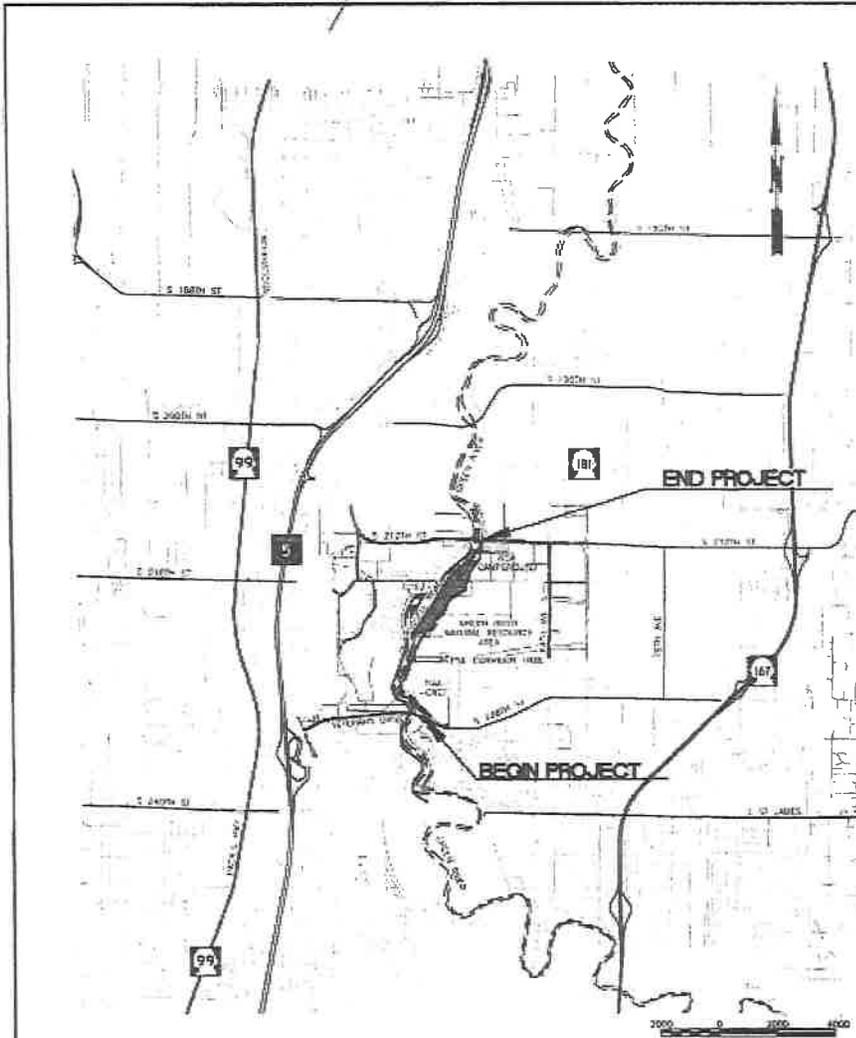
By: 
Chairperson

Date: 1-17-20

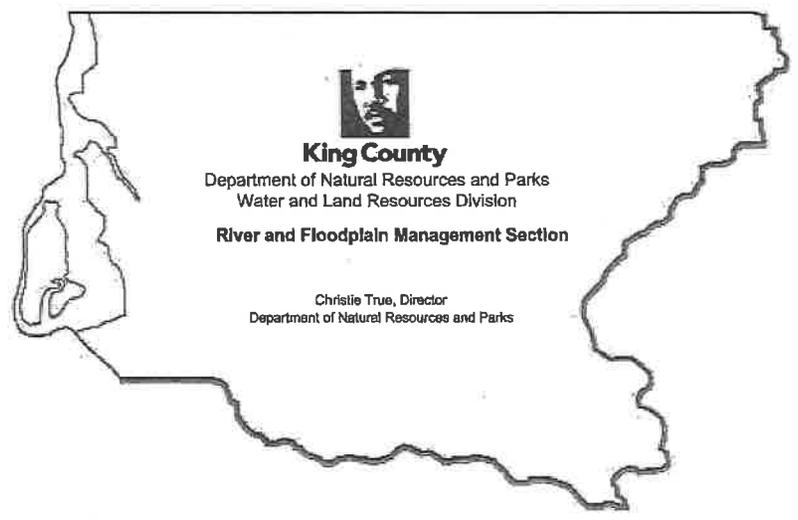
King County Flood District

By: 
Chair

Date: 1/27/20



VICINITY MAP
SCALE 1"=2000'




King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
River and Floodplain Management Section

 Christie True, Director
 Department of Natural Resources and Parks

LOWER RUSSELL LEVEE SETBACK PROJECT PHASE 2



CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPLICABLE)

Know what's below.
Call before you dig.

SURVEY JOB NO./SOURCE:	---					
CHECKED:	---	---				
DATE ENTERED:	RD	11/19				
DESIGNED:	VR	11/19				
CHECKED:	KF	11/19				
SUPERVISOR:	SJ	11/19				
	REV.	REVISION	BY	DATE		
	REC'D	CHANGES APPROVED	BY	DATE		

PLACING: _____
 PROJECT NO. 1112056
 CONTRACT NO. C01415C20



 **King County**
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
COVER AND VICINITY MAP

SHEET
G-01

GENERAL AND SURVEY

- G-01 COVER AND VIGNETTE MAP
- G-02 SHEET INDEX
- G-03 LEGEND
- G-04 ABBREVIATIONS
- G-05 PROJECT OVERVIEW
- G-06 SURVEY CONTROL MAP
- G-07 TESC KEY MAP
- G-08 DEMOLITION & CLEARING PLAN & KEY MAP
- G-09 TRAFFIC CONTROL
- G-10 TRAIL CLOSURE AND DETOUR PLAN
- G-11 LEVEE SITE PLAN AND KEY MAP
- G-12 HABITAT EXCAVATION SITE PLAN AND KEY MAP
- G-13 WATER AND SEWER SITE PLAN AND KEY MAP
- G-14 STORM DRAIN SITE PLAN AND KEY MAP
- G-15 STREET AND TRAIL, SITE PLAN AND KEY MAP
- G-16 LANDSCAPE KEY PLAN - VAN DOREN'S PARK & RUSSELL WOODS PARKING LOT
- G-17 PARK AREA KEY PLAN

CLEARING & REMOVALS

- CC-01 CLEARING 1
- CC-02 CLEARING 2
- CC-03 CLEARING 3
- CC-04 CLEARING 4
- CC-05 CLEARING 5
- CC-06 CLEARING 6
- CC-07 CLEARING 7
- CC-08 CLEARING 8
- CC-09 CLEARING 9
- CC-10 CLEARING 10
- CR-01 REMOVALS 1
- CR-02 REMOVALS 2
- CR-03 REMOVALS 3
- CR-04 REMOVALS 4
- CR-05 REMOVALS 5
- CR-06 REMOVALS 6
- CR-07 REMOVALS 7
- CR-08 REMOVALS 8
- CR-09 REMOVALS 9
- CR-10 REMOVALS 10

TEMP. EROSION & SEDIMENTATION CONTROL

- CE-01 TESC PLAN 1
- CE-02 TESC PLAN 2
- CE-03 TESC PLAN 3
- CE-04 TESC PLAN 4
- CE-05 TESC PLAN 5
- CE-06 TESC PLAN 6
- CE-07 TESC PLAN 7
- CE-08 TESC DETAILS 1

LANDSCAPE GENERAL

- L-01 LANDSCAPE PLAN KEY MAP
- L-02 LANDSCAPE PLAN 1
- L-03 LANDSCAPE PLAN 2
- L-04 LANDSCAPE PLAN 3
- L-05 LANDSCAPE PLAN 4
- L-06 LANDSCAPE PLAN 5
- L-07 LANDSCAPE PLAN 6
- L-08 LANDSCAPE PLAN 7
- L-09 LANDSCAPE DETAILS 1

TABLES

- T-01 EARTHWORK TABULATION AREAS
- T-02 EARTHWORK TABULATION TABLES

STRUCTURAL (FLOOD WALL)

- S-02 FLOODWALL TO I-WALL PLAN AND PROFILE STA 0+00 TO 8+00
- S-03 EXISTING FLOODWALL PLAN AND PROFILE STA 8+00 TO 10+00
- S-04 FLOODWALL TO I-WALL PLAN AND PROFILE STA 10+00 TO 25+41
- S-05 FLOODWALL MONOLITH PLAN AND ELEVATION LAYOUT - 1
- S-06 FLOODWALL MONOLITH PLAN AND ELEVATION LAYOUT - 1B
- S-07 I-WALL TO FLOODWALL TRANSITION DETAILS
- S-08 I-WALL LAYOUT GEOMETRY STA 25+00 TO 26+15.69

LEVEE

- CL-01 PROPOSED LEVEE PLAN AND PROFILE STA 0+00 TO STA 10+00
- CL-02 PROPOSED LEVEE PLAN AND PROFILE STA 10+00 TO STA 20+00
- CL-03 PROPOSED LEVEE PLAN AND PROFILE STA 20+00 TO STA 30+00
- CL-04 PROPOSED LEVEE PLAN AND PROFILE STA 30+00 TO STA 40+00
- CL-05 PROPOSED LEVEE PLAN AND PROFILE STA 40+00 TO STA 50+00
- CL-06 TYPICAL LEVEE SECTIONS AND DETAILS 1
- CL-07 TYPICAL LEVEE SECTIONS AND DETAILS 2
- CL-08 TYPICAL LEVEE SECTIONS AND DETAILS 3
- CL-09 TYPICAL LEVEE SECTIONS AND DETAILS 4
- CL-10 PROPOSED LEVEE SECTIONS 1
- CL-11 PROPOSED LEVEE SECTIONS 2
- CL-12 PROPOSED LEVEE SECTIONS 3
- CL-13 PROPOSED LEVEE SECTIONS 4
- CL-14 PROPOSED LEVEE SECTIONS 5
- CL-15 PROPOSED LEVEE SECTIONS 6
- CL-16 PROPOSED LEVEE SECTIONS 7
- CL-17 PROPOSED LEVEE SECTIONS 8
- CL-18 PROPOSED LEVEE SECTIONS 9
- CL-19 PROPOSED KENT NURSERY FENCE AND GATE PLAN
- CL-20 PROPOSED FLOODWALL LEVEE PLAN AND PROFILE STA -0+47 TO STA 1+73

HABITAT EXCAVATION

- CH-01 HABITAT AREA EXCAVATION 1
- CH-02 HABITAT AREA EXCAVATION 2
- CH-03 HABITAT AREA EXCAVATION 3
- CH-04 HABITAT AREA EXCAVATION 4
- CH-05 CONTAMINATED SOIL REMOVAL SITES

HABITAT FEATURES & SOIL PROTECTION

- CHF-01 HABITAT WOOD AND SOIL PROTECTION SITE PLAN & KEY MAP
- CHF-02 HABITAT WOOD AREA 1 PLAN
- CHF-03 HABITAT WOOD AREA 1 SECTION
- CHF-04 HABITAT WOOD AREA 2 PLAN
- CHF-05 HABITAT WOOD AREA 2 BANK ROUGHENING JAM LAYERING PLAN
- CHF-06 HABITAT WOOD AREA 3 PLAN
- CHF-07 HABITAT WOOD AREA 3 APEX JAM LAYERING PLAN
- CHF-08 HABITAT WOOD AREA 3 - ATTRACTOR JAM LAYERING PLAN A
- CHF-09 HABITAT WOOD AREA 3 - ATTRACTOR JAM LAYERING PLAN B
- CHF-10 HABITAT WOOD AREA 3 LARGE RAFT JAM
- CHF-11 HABITAT WOOD AREA 3 SMALL RAFT JAM
- CHF-12 HABITAT WOOD AREA 4 PLAN
- CHF-13 HABITAT WOOD AREA 4 LATTICE CRB JAM LAYERING PLAN A
- CHF-14 HABITAT WOOD AREA 4 LATTICE CRB JAM LAYERING PLAN B
- CHF-15 HABITAT WOOD AREA 4 TRAD JAM
- CHF-16 HABITAT WOOD AREA 4 BARB WEDGE JAM #1
- CHF-17 HABITAT WOOD AREA 4 BARB WEDGE JAM #2
- CHF-18 HABITAT WOOD AREA 4 BARB WEDGE JAM #3
- CHF-19 HABITAT WOOD AREA 4 BARB WEDGE JAM #4
- CHF-20 HABITAT WOOD AREA 4 BARB WEDGE JAM #5
- CHF-21 HABITAT WOOD AREA 4 BARB WEDGE JAM #3
- CHF-22 HABITAT WOOD AREA 4 CRB WALL
- CHF-23 STANDARD ANCHORING DETAILS A
- CHF-24 STANDARD ANCHORING DETAILS B

- CSP-01 AREA 4 RIPRAP TOP SURFACE
- CSP-02 AREA 4 FRESH GRADE SURFACE
- CSP-03 RIPRAP RETEMENT TYPICAL SECTIONS AND YELLOW ROWS
- CSP-04 RIPRAP RETEMENT SECTIONS
- CSP-05 BARB #1 PROFILE AND PLAN
- CSP-06 BARB #1 SECTIONS
- CSP-07 BARB #1 SECTIONS AND PERSPECTIVES
- CSP-08 BARB #2 PROFILE AND PLAN
- CSP-09 BARB #2 SECTIONS
- CSP-10 BARB #2 SECTIONS AND KEY BLANKET
- CSP-11 BARB #3 PROFILE AND PLAN
- CSP-12 BARB #3 SECTIONS
- CSP-13 BARB #3 SECTIONS AND KEY BLANKET
- CSP-14 SITE 1 EDDY FEATURE
- CSP-15 SITE 2 EDDY FEATURE
- CSP-16 SITE 3 EDDY FEATURE
- CSP-17 SITE 5 EDDY FEATURE
- CSP-18 SITE 5 EDDY FEATURE
- CSP-19 SITE 5 EDDY FEATURE

ROADS AND TRAILS PAVEMENT

- CP-01 STREET IMPROVEMENTS PLAN & PROFILE RUSSELL ROAD STA 0+00 TO 9+00
- CP-02 TRAIL IMPROVEMENTS PLAN & PROFILE GREEN RIVER TRAIL STA 0+00 TO 9+00
- CP-03 BOAT LAUNCH TRAIL IMPROVEMENTS PLAN & PROFILE GREEN RIVER TRAIL STA 9+00 TO 13+00 BOAT LAUNCH TRAIL IMPROVEMENTS PLAN & PROFILE GREEN RIVER TRAIL STA 13+00 TO 24+00
- CP-04 TRAIL IMPROVEMENTS PLAN & PROFILE GREEN RIVER TRAIL STA 25+00 TO 35+50
- CP-05 STREET IMPROVEMENTS PLAN & PROFILE PSE CORRIDOR TRAIL STA 0+00 TO 9+00
- CP-06 STREET IMPROVEMENTS EMERGENCY ACCESS & NURSERY ACCESS PROFILES STA -1+00 TO 3+00
- CP-07 STREET IMPROVEMENTS PLAN & PROFILE RUSSELL ROAD STA 36+50 TO 45+00 AND VAN DOREN'S PARKING LOT STA 24+00 TO 34+00
- CP-08 TRAIL IMPROVEMENTS PLAN & PROFILE GREEN RIVER TRAIL STA 34+00 TO 44+00
- CP-09 TRAIL IMPROVEMENTS PLAN & PROFILE GREEN RIVER TRAIL STA 44+00 TO 53+00
- CP-10 STREET & TRAIL IMPROVEMENT PROFILE LEVEE STA 71+00 TO 75+50 GREEN RIVER TRAIL LEVEE ACCESS
- CP-11 RUSSELL WOODS TRAILHEAD PARKING LOT DETAIL
- CP-12 VAN DOREN'S PARK PARKING LOT DETAIL
- CP-13 STREET & TRAIL IMPROVEMENTS TYPICAL SECTIONS
- CP-14 STREET & TRAIL IMPROVEMENTS TYPICAL SECTIONS
- CP-15 NON-PARK TRAIL IMPROVEMENTS - PLAN A
- CP-16 NON-PARK TRAIL IMPROVEMENTS - PLAN B
- CP-17 NON-PARK TRAIL IMPROVEMENTS - PLAN C
- CP-18 NON-PARK TRAIL IMPROVEMENTS - PLAN D
- CP-19 NON-PARK TRAIL IMPROVEMENTS - CP TABLE
- CP-20 SIGN SCHEDULE AND HANDRAIL DETAIL
- CP-21 VAN DOREN'S PARK PARKING LOT DETAILS 1
- CP-22 VAN DOREN'S PARK PARKING LOT DETAILS 2

UTILITIES

- CSD-01 STORM DRAIN IMPROVEMENTS, PLAN AND PROFILE STA 0+00 TO 9+00
- CSD-02 STORM DRAIN IMPROVEMENTS, PLAN AND PROFILE STA 25+00 TO 29+00 & STA 0+00 TO 7+50
- CSD-03 STORM DRAIN IMPROVEMENTS, PLAN AND PROFILE STA 29+00 TO 37+00
- CSD-04 STORM DRAIN IMPROVEMENTS, PLAN AND PROFILE
- CSD-05 STORM DRAIN IMPROVEMENTS, PLAN AND PROFILE
- CSD-06 STORM DRAIN IMPROVEMENTS, PLAN AND PROFILE
- CSD-07 STORM DRAIN DETAILS
- CSD-08 GREEN RIVER WITHDRAW PIPING 1
- CSD-09 GREEN RIVER WITHDRAW PIPING 2
- CSD-10 GREEN RIVER WITHDRAW PIPING DETAILS
- CWS-01 WATER PLAN AND PROFILE STA 0+00 TO 7+00
- CWS-02 WATER PLAN AND PROFILE TBA-CREF WATER SERVICE
- CWS-03 WATER PLAN AND PROFILE TBA-CREF AND CITY OF KENT NURSERY WATER SERVICE
- CSS-01 SEWER PLAN AND PROFILE KENT FORCE MAIN
- CSS-02 SEWER PLAN AND PROFILE PARK SEWER

LANDSCAPE (VAN DOREN PARK)

- LP-01 SOIL PREPARATION PLAN
- LP-11 LANDSCAPE MATERIALS PLAN A
- LP-12 LANDSCAPE MATERIALS PLAN B
- LP-13 LANDSCAPE MATERIALS PLAN C
- LP-14 LANDSCAPE MATERIALS PLAN D
- LP-15 LANDSCAPE MATERIALS PLAN E
- LP-16 LANDSCAPE MATERIALS PLAN F & G
- LP-21 LAYOUT & GRADING PLAN A
- LP-22 LAYOUT & GRADING PLAN B
- LP-23 LAYOUT & GRADING PLAN C
- LP-24 LAYOUT & GRADING PLAN D
- LP-25 LAYOUT & GRADING PLAN E
- LP-26 LAYOUT & GRADING PLAN F & G
- LP-27 PARK LAYOUT CONTROL POINT TABLE
- LP-28 LAYOUT & GRADING PLAYGROUND ENLARGEMENT
- LP-31 LANDSCAPE PARK DETAILS 1
- LP-32 LANDSCAPE PARK DETAILS 2
- LP-33 LANDSCAPE PARK DETAILS 3
- LP-34 LANDSCAPE PARK DETAILS 4
- LP-35 LANDSCAPE PARK DETAILS 5
- LP-36 LANDSCAPE PARK DETAILS 6
- LP-37 LANDSCAPE PARK DETAILS 7
- LP-41 PLANTING PLAN A
- LP-42 PLANTING PLAN B
- LP-43 PLANTING PLAN C
- LP-44 PLANTING PLAN D
- LP-45 PLANTING PLAN E
- LP-46 PLANTING PLAN F & G
- LP-47 PLANTING LEGEND
- LP-48 PLANTING DETAILS
- LP-49 PLANTING PLAN - RUSSELL WOODS PARKING LOT
- LP-51 IRRIGATION PLAN A
- LP-52 IRRIGATION PLAN B
- LP-53 IRRIGATION PLAN C
- LP-54 IRRIGATION PLAN D
- LP-55 IRRIGATION PLAN E
- LP-56 IRRIGATION PLAN F
- LP-57 IRRIGATION SCHEDULES AND DETAILS
- LP-58 IRRIGATION DETAILS 1
- LP-59 IRRIGATION DETAILS 2
- LP-60 PARK GROUNDS SECTIONS
- LP-61 VAN DOREN'S LANDING PARK SETTLEMENT & MONITORING PLAN
- PARK STRUCTURES**
- LS-01 OBSERVATION TOWER GENERAL STRUCTURE NOTES
- LS-02 OBSERVATION TOWER SPECIAL INSPECTIONS
- LS-03 OBSERVATION TOWER FOUNDATION STANDARD DETAILS
- LS-04 OBSERVATION TOWER STEEL STANDARD DETAILS
- LS-05 OBSERVATION TOWER STEEL FABRICATIONS STANDARD DETAILS
- LS-06 OBSERVATION TOWER PLAN 1
- LS-07 OBSERVATION TOWER PLAN 2
- LS-08 OBSERVATION TOWER ELEVATIONS
- LS-09 OBSERVATION TOWER SECTIONS
- LS-10 OBSERVATION TOWER DETAILS 1
- LS-11 OBSERVATION TOWER DETAILS 2
- LS-12 PHONIC SHELTER FOUNDATION PLAN AND SECTION
- LS-13 SOTRIMATER PUMP AND ENCLOSURE FOUNDATION PLAN AND SECTION
- ELECTRICAL**
- E-01 VAN DOREN'S PARK ELECTRICAL PLAN
- E-02 VAN DOREN'S PARK ELECTRICAL DETAILS 1
- E-03 VAN DOREN'S PARK ELECTRICAL DETAILS 2

NOTES:

- 1. THIS DRAWING SET CONTAINS 229 SHEETS.

SURVEY JOB NO/SUBJECT:		PLANS:	
CHECKED:		PROJECT No.	1112026
DATE:	NO 11/18	CONTRACT No.	CD1415020
DESIGNED:	VR 11/18		
CHECKED:	KF 11/18		
SUPERVISOR:	SJ 11/18		
	RECORD CHANGES APPROVED BY DATE		



LOWER RUSSELL LEVEE SETBACK PROJECT PHASE 2

SHEET INDEX

SHEET G-02

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

Know what's below. Call before you dig.



LINETYPES

EXIST.	DESCRIPTION
SURFACE FEATURES:	
	BUILDING LINE (EXISTING)
	CREEK/DITCH CENTERLINE (EXIST.)
	CURB/PAVEMENT/SIDEWALK (EX)
FENCE:	
	WIRE FENCE
	SPLIT RAIL FENCE
	WIRE-WOOD POST FENCE
	WOODEN GUARDRAIL (EXISTING)
	METLAND PERIMETER (DELIMITED BY BIOLOGIST)
	SHOULDER (EX)
INTERIOR EXTERIOR	
	INTERIOR
	EXTERIOR
SURVEY:	
	CENTERLINE (EXISTING)
	CONTOUR (DEPRESSION)
	CONTOUR (INTERVAL) (EXIST.)
	CONTOUR (INDEX) (EXIST.)
	EASEMENT (TEMPORARY)
	EASEMENT (PERMANENT)
	WATCH LINE
	RANGE/TOWNSHIP LINE
	RIGHT-OF-WAY (CURRENT)
	CITY LIMITS
	SECTION LINE
	QUARTER SECTION LINE
	PARK BOUNDARY
	ORDINARY HIGH WATER (2,000 CFS)
	SHORELINE JURISDICTION
	BUILDING SETBACK BASELINE
UTILITIES (EXISTING):	
	CABLE TELEVISION (AERIAL)
	CABLE TELEVISION (BURIED)
	FORCE MAIN
	GAS
	OIL
	POWER (AERIAL)
	POWER (BURIED)
	SANITARY SEWER
	STORM DRAINAGE
	TELEPHONE (AERIAL)
	TELEPHONE (BURIED)
	UTILITY SERVICE LINE (GENERAL)
	WATER
	GAS
	STORM DRAIN
	CREEK/DITCH CENTERLINE
	CURB(PROP) 2/7
	CURB/PAVEMENT/SIDEWALK
	PLASTIC CONSTRUCTION FENCE
	GUARDRAIL

LEGEND

UTILITIES (EXISTING):	DESCRIPTION
	CONTROL LINE
	CONTOUR (INTERVAL)
	CONTOUR (INDEX)
	EASEMENT (PERMANENT)
	PROPERTY LINE
	EXISTING ROW
	CENTERLINE
	EXISTING GRADE (PROFILE SECTIONS)
	PROPOSED GRADE TOP (PROFILE SECTIONS)
	PROPOSED GRADE TOP (PROFILE SECTIONS)
	TEMPORARY CONSTRUCTION EASEMENT
	DMS
	SALT FENCE
	TREE PROTECTION FENCE
	SELECT FILL
	CORE FILL
	CLEARING AND GRUBBING LIMITS
	PAVEMENT REMOVAL
	PAVEMENT (NEW)
	SECTION/DETAIL NO. OR LETTER
	REFERENCE SHEET NO.
* LEFT AS "-" IF REFERENCE IS ON THE SAME SHEET	
	SECTION CUT

GAS/POWER/TELEPHONE

SYMBOL	DESCRIPTION
	GAS METER
	GAS VALVE
	PAD MOUNTED TRANSFORMER
	POWER VAULT
	TRANSMISSION TOWER (SCALEABLE)
	UTILITY POLE
	POWER POLE
	UTILITY POLE ANCHOR
	TELEPHONE RISER
	TELEPHONE VAULT
SURVEY	
	ANGLE POINT
	BENCH MARK
	BLOCK CORNER
	IRON PIPE
	MONUMENT (IN CASE)
	MONUMENT (SURFACE)
	OWNERSHIP TIE
	SECTION CENTER
	SECTION CORNER
	QUARTER CORNER
	SIXTEENTH CORNER
	CLOSING CORNER
	MEASUR CORNER
	WITNESS CORNER
	SOIL BORING
	SPOT ELEVATION
	TAX LOT / PARCEL NUMBER
	INTERSTATE
	ASSESSOR'S CODE (LAST 4 DIGITS)
	SURVEY CONTROL POINT
	TREE (CONIFER)
	TREE (DECIDUOUS)

DRAINAGE

SYMBOL	DESCRIPTION
	STORM DRAIN CATCH BASIN
	STORM DRAIN INLET (NO CATCH)
	STORM DRAIN MANHOLE
	STORM DRAIN PIPE (PLAN & PROFILE)
	QUARRY SPALLS

WATER

SYMBOL	DESCRIPTION
	WATER PIPE (PLAN & PROFILE)
	GUARD POST
	WATER FITTING WITH THRUST BLOCK
FIRE HYDRANTS & FITTINGS:	
	FH
	WATER VALVE
	WATER FITTING WITH THRUST BLOCK

SEWER

SYMBOL	DESCRIPTION
	SEWER MANHOLE
	SEWER FORCE MAIN VALVE
	SEWER FORCE FITTING
	SEWER DRAIN PIPE (PLAN)
	SEWER DRAIN PIPE (PROFILE & PLAN WHEN ON TOP OF EXISTING PIPE ALIGNMENT)

ROAD PLAN

SYMBOL	DESCRIPTION
	GUT SLOPE CATCH POINTS (OPTIONAL)
	FULL SLOPE CATCH POINTS (OPTIONAL)
	SHOULDER

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



Know what's below.
Call before you dig.

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2

LEGEND

SHEET
G-03

SURVEY JOB NO./SOURCE	---	---	---	---	---
CHECKED:	RD	11/78			
DWG ENTERED:	VR	11/78			
DESIGNED:	KF	11/78			
CHECKED:	SJ	11/78			
SUPERVISOR:					
	NUM.	RECORD CHANGES APPROVED	BY	DATE	

FUNDING: _____
PROJECT No. 1112056
CONTRACT No. C01415220



HDR Engineering Inc.

King County
Department of Natural Resources and Parks
Water and Land Resources Division
Flood and Floodplain Management Section
Christie True Director

ABBREVIATIONS

ABAND #ABANDONED
 AC ASPHALT CONCRETE
 ACP ASPHALT CONCRETE PAVEMENT
 ADJ ADJUST
 AH AHEAD
 AL ALIGNMENT
 AP ANGLE POINT
 APPROX APPROXIMATELY
 AVE AVE
 AVG AVERAGE
 BK BACK
 BLDG BUILDING
 BLVD BOULEVARD
 BM BENCH MARK
 BMP BEST MANAGEMENT PRACTICE
 BP BROWN POINT
 BRG BEARING
 BSSL BUILDING SETBACK BASELINE
 BTWK BETWEEN
 BVC BEGINNING OF VERTICAL CURVE
 C CONDUCTOR
 C&G CLEAR AND GRUB LIMITS
 CATV CABLE TV
 CAV COMBINED AIR VACUUM RELEASE VALVE
 CB CATCH BASIN
 CFS CUBIC FEET PER SECOND
 CL CLASS
 CLR CENTERLINE
 CLSM CONTROLLED LOW STRENGTH MATERIAL
 CMP CORRUGATED METAL PIPE
 COMPT COMPACTED
 CONC CONCRETE
 CONN CONNECT
 CONST CONSTRUCTION
 CSBC CRUSHED STONE BASE COURSE
 CSTC CRUSHED SURFACING TOP COURSE
 CU CUBIC
 CM CUBIC METER
 DEG DEGREE
 DEPT DEPARTMENT
 DI DUCTILE IRON
 DIAM DIAMETER
 DIST DISTANCE
 DWG DRAWING
 DWSE DESIGN WATER SURFACE ELEVATION
 DWY DRIVEWAY
 E EAST, ELECTRICAL
 EA EACH
 EG EXISTING GRADE
 EL ELEVATION
 ELEC ELECTRICAL
 EMB EMBANKMENT
 EP EDGE OF PAVEMENT
 EQ EQUATION
 EST ESTIMATE
 EVC END OF VERTICAL CURVE
 EXCL EXCLUDE
 EXST EXISTING
 FG FINISHED GRADE
 FH FIRE HYDRANT
 FHWA FEDERAL HIGHWAY ADMINISTRATION
 FG FINISHED GRADE
 FL FLANGE
 FT FEET/FOOT
 G GAS LINE, GREEN
 GA GAUGE
 GALV GALVANIZED
 GB GRADE BREAK
 GE GRADE ELEVATION
 GR GUARDRAIL
 GRD GROUND
 GRNRA GREEN RIVER NATURAL RESOURCES AREA
 GY GATE VALVE
 HDPE HIGH DENSITY POLYETHYLENE
 HMA HOT MIX ASPHALT
 HORIZ HORIZONTAL
 HP HIGH POINT
 HPS HIGH PRESSURE SODIUM
 HT HEIGHT
 HUND HUNDRED
 HWY HIGHWAY
 ID INSIDE DIAMETER
 I E INVERT ELEVATION
 INVERT INVERT
 JB JUNCTION BOX
 JTS JT JOINTS, JOINT
 JUD JOINT USE DRIVEWAY
 K RATE OF VERTICAL CURVATURE
 KOA KAMPOUNGKONG OF AMERICA
 L LENGTH OF ARC
 LFEET FEET/FEET
 LP LOW POINT
 LT LEFT
 LUMIN LUMINAIRE
 M METER

MAX MAXIMUM
 MH MANHOLE
 MIN MINIMUM
 MISC MISCELLANEOUS
 MON MONUMENT
 MUTCD MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
 N NORTH
 NAD 83/91 NORTH AMERICAN DATUM OF 1983, WITH 91 ADJUSTMENTS
 NAD 55 NORTH AMERICAN VERTICAL DATUM OF 1955
 NO NUMBER
 NPDES NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
 NST NOT STEEPER THAN
 NTS NOT TO SCALE
 O-HING OVERHEAD CROSSING
 O-C ON CENTER
 OD OUTSIDE DIAMETER
 OFF OFFSET
 OP OVERHEAD POWER
 OT OVERHEAD TELEPHONE
 P POLE, POWER
 PAR PARK ACCESS ROAD
 PAVT PAVEMENT
 PC POINT OF CURVATURE
 PCC POINT OF COMPOUND CURVE
 P-E PRE-EMPT
 PED PEDESTRIAN
 PG PERFORMANCE GRADE
 PI POINT OF INTERSECTION
 PL PROPERTY LINE
 PE POLYETHYLENE
 PP POWER POLE
 PR PAR
 PRC POINT OF REVERSE CURVE
 PSE PUGET SOUND ENERGY
 PSI POUND PER SQ IN
 PT POINT OF TANGENT
 PVC POLYVINYL CHLORIDE
 PVCC POINT OF VERTICAL COMPOUND CURVE
 PV POINT OF VERTICAL INTERSECTION
 PVRC POINT OF VERTICAL REVERSE CURVE
 QTY QUANTITY
 R RADIUS
 RD ROAD
 REINF REINFORCED
 REQ'D REQUIRED
 RJ RESTRAINED JOINT
 ROW RIGHT-OF-WAY
 RT RIGHT
 R/W RIGHT-OF-WAY
 S SANITARY
 SAN SANITARY
 SCHED SCHEDULE
 SD STORM DRAIN
 SECT SECTION
 SERV SERVICE
 SF SQUARE FEET/FOOT
 SHLD SHOULDER
 SHT SHEET
 SLI SHOULDER JURISDICTION
 SP T-SHEELED PAIR IN SINGLE CABLE
 SPEC SPECIFICATIONS
 SPCS SPECIFICATIONS
 SQ SQUARE
 SR STATE ROUTE
 SS SANITARY SEWER
 SSFM SANITARY SEWER FORCE MAIN
 ST STREET
 STA STATION
 STD STANDARD
 SW SOUTHWEST
 S/W SUDENALK
 SWPPP SWAMPWATER POLLUTION PREVENTION PLAN
 T TELEPHONE, TANGENT, TON
 TAN TANGENT
 TBM TEMPORARY BENCHMARK
 TCE TEMPORARY CONSTRUCTION EASEMENT
 TEMP TEMPORARY
 TOE TOP OF EMBANKMENT FILL (Ø LEVEE CENTERLINE)
 TOL TOP OF LEVEE (TOP OF CSBC Ø LEVEE HINGE)
 TP TELEPHONE POLE/TREE PROTECTION
 TYP TYPICAL
 UD UNDERDRAIN PIPE
 US UNDERGROUND
 UGE UNDERGROUND ELECTRICAL
 VAR VARIES
 VC VERTICAL CURVE
 VERT VERTICAL
 WB WETLANDS BOUNDARY
 W WEST WATER
 W WITH
 WLRD WATER AND LAND RESOURCES DIVISION
 WM WATER METER/WATER MAIN
 W/O WITHOUT
 WTR WATER STOP
 WSE WATER SURFACE ELEVATION
 WSEL WATER SURFACE ELEVATION
 WSDOT WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
 WY WATER VALVE
 Y YELLOW
 YDS YARDS
 & AND

NOTES:

1. THESE ABBREVIATIONS APPLY TO THE ENTIRE SET OF SHEETS.
2. LISTING OF ABBREVIATIONS DOES NOT IMPLY THAT ALL ABBREVIATIONS ARE USED IN THE SHEETS.
3. ABBREVIATIONS SHOWN ON THIS SHEET INCLUDE VARIATIONS OF A WORD. FOR EXAMPLE, "SF" MAY MEAN SQUARE FEET OR SQUARE FOOT.

SUPPLY JOB NO./SOURCE:					
CHECKED:					
DATE DROPPED:	RD	11/19			
CHECKED:	VR	11/19	MAIL	REVISION	BY DATE
CHECKED:	KF	11/19			
SUPERVISOR:	SJ	11/19			
	MAIL		RECORD CHANGES APPROVED	BY	DATE

FUNDING:	
PROJECT No.	1112056
CONTRACT No.	CD1415C23



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christine True, Director

CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

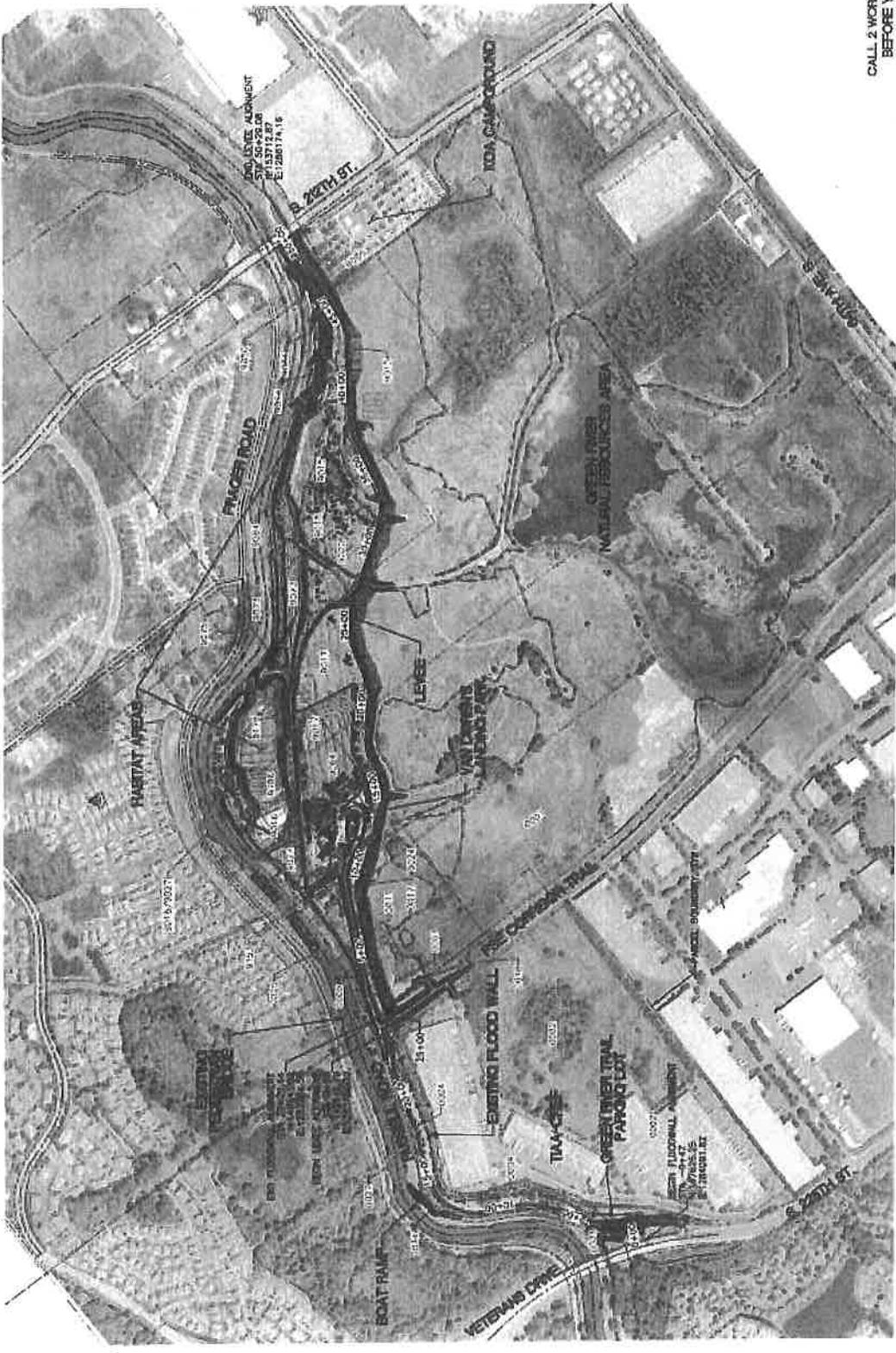


Know what's below.
 Call before you dig.

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2

ABBREVIATIONS

SHEET
G-04



CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
Know what's below.
Call before you dig.
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PROJECT OVERVIEW
SHEET
G-05

King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Trice, Director

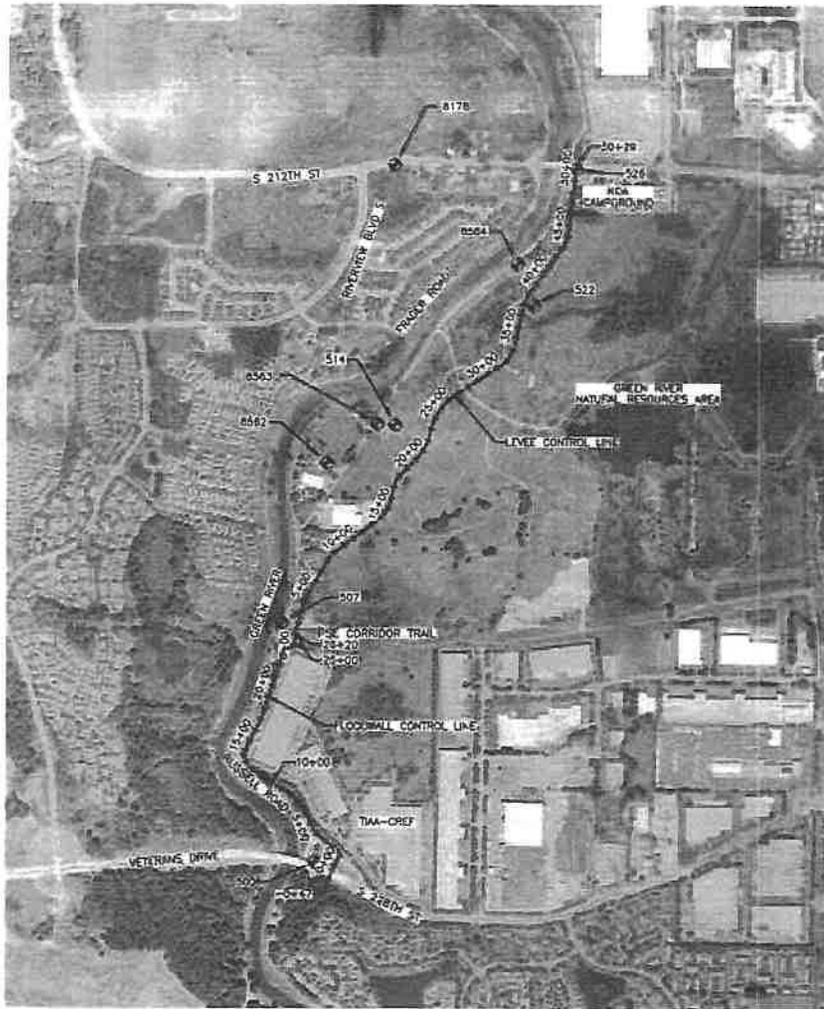


ISSUING: _____
PROJECT No. 1112056
CONTACT No. 001415220

NO.	DATE	BY	REVISION	DATE
1	11/18	RD		
2	11/18	VF		
3	11/18	RF		
4	11/18	SA		

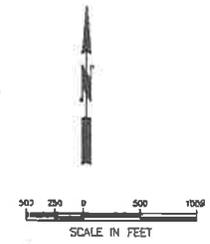
NO.	DATE	BY	REVISION	DATE
1				
2				
3				
4				

DATE: _____
DRAWN BY: _____
CHECKED BY: _____
APPROVED BY: _____



POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	RAW DESCRIPTION
500	147684.40	1283945.70	61.22	MAGNAIL W/ WASHER IN CONCRETE FIRE HYDRANT BASE AT NORTH SIDE OF VETERANS DRIVE.
507	149749.85	1283656.41	44.46	MAGNAIL W/ WASHER IN CONCRETE LANDING AT EAST END OF PEDESTRIAN BRIDGE OVER THE GREEN RIVER.
514	151471.24	1284623.50	41.27	MAGNAIL W/ WASHER IN CONCRETE AT BACK OF SIDEWALK HANDICAP RAMP IN GREEN RIVER NATURAL RESOURCES AREA PARKING LOT.
522	152406.28	1285811.74	38.64	MAGNAIL W/ WASHER IN CONCRETE PAD AT THE BOTTOM OF THE STAIRS OF THE OBSERVATION TOWER IN THE GREEN RIVER NATURAL RESOURCES AREA.
526	153679.16	1285175.79	43.25	MAGNAIL W/ WASHER IN CONCRETE LIGHT POLE BASE AT SOUTH SIDE OF SOUTH 212TH STREET.
5178	153717.26	1284608.70	29.31	2" ALUMINUM DISK AT CENTER OF SIDEWALK ON S SIDE OF S 212 ST, ~55.0' SW OF MIC #8161 AND ~40.0' W OF POWER POLE 315384/164451.
8562	151143.73	1284036.25	33.77	REBAR/CAP @ S PARKING LOT OF VAN DOREN'S LANDING PARK ON RUSSELL RD, SET IN ASPHALT PATH @ MIDDLE OF HORSESHOE PYLS, .0' S OF N OF EP.
8563	151481.52	1284487.89	38.75	RAMSET/WASHER @ S PARKING LOT OF GREEN RIVER NATURAL RESOURCE AREA, SET IN MIDDLE OF S CONCRETE WALK 12.0' OF E OF EP.
8564	152847.51	1285688.45	38.20	REBAR/CAP @ N PARKING LOT OF GREEN RIVER NATURAL RESOURCE AREA, SET IN ASPHALT DRIVE 6.3' E OF S DATE POST, 1.2' FROM CLWB.

- NOTES:
- HORIZONTAL DATUM NAD 83/91 WASHINGTON STATE PLANES NORTH ZONE, US FOOT VERTICAL DATUM NAVD88.
 - SURVEY BASEMAP PROVIDED BY I ALLIANCE GEOMATICS ON OCTOBER 6, 2015. BASEMAP IS BASED ON THE FOLLOWING SOURCES:
 - KING COUNTY
 - CITY OF KENT
 - LEVEE AND FLOODWALL ALIGNMENT CONTROL INFORMATION PROVIDED ON THE RESPECTIVE "S" AND "CL" SERIES SHEETS.



CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 Know what's below. Call before you dig.

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 SURVEY CONTROL MAP

SHEET
 G-06

SURVEY JOB NO./SCALE:	TALLANCE	8/18			
CHECKED:	TALLANCE	9/18			
CAD DRAWER:	RD	11/18			
DESIGNED:	VR	11/18	NAME	REVISION	BY DATE
CHECKED:	KF	11/18			
SUPERVISOR:	SJ	11/18			
	RECORD CHANGES APPROVED BY	DATE			

FLUSHING: _____
 PROJECT No. **811908**
 CONTRACT No. **1201415020**



King County
 Department of Natural Resources and Parks
 Water and Floodplain Management Division
 Chetala Trice, Director

DATE	11/29/19
BY	ERIK PETERS, P.E.
REVISION	
DATE	11/29/19
BY	ERIK PETERS, P.E.
REVISION	
DATE	11/29/19
BY	ERIK PETERS, P.E.
REVISION	
DATE	11/29/19
BY	ERIK PETERS, P.E.
REVISION	

PROJECT NO.	1112955
CONTRACT NO.	CO1415220
DATE	
BY	

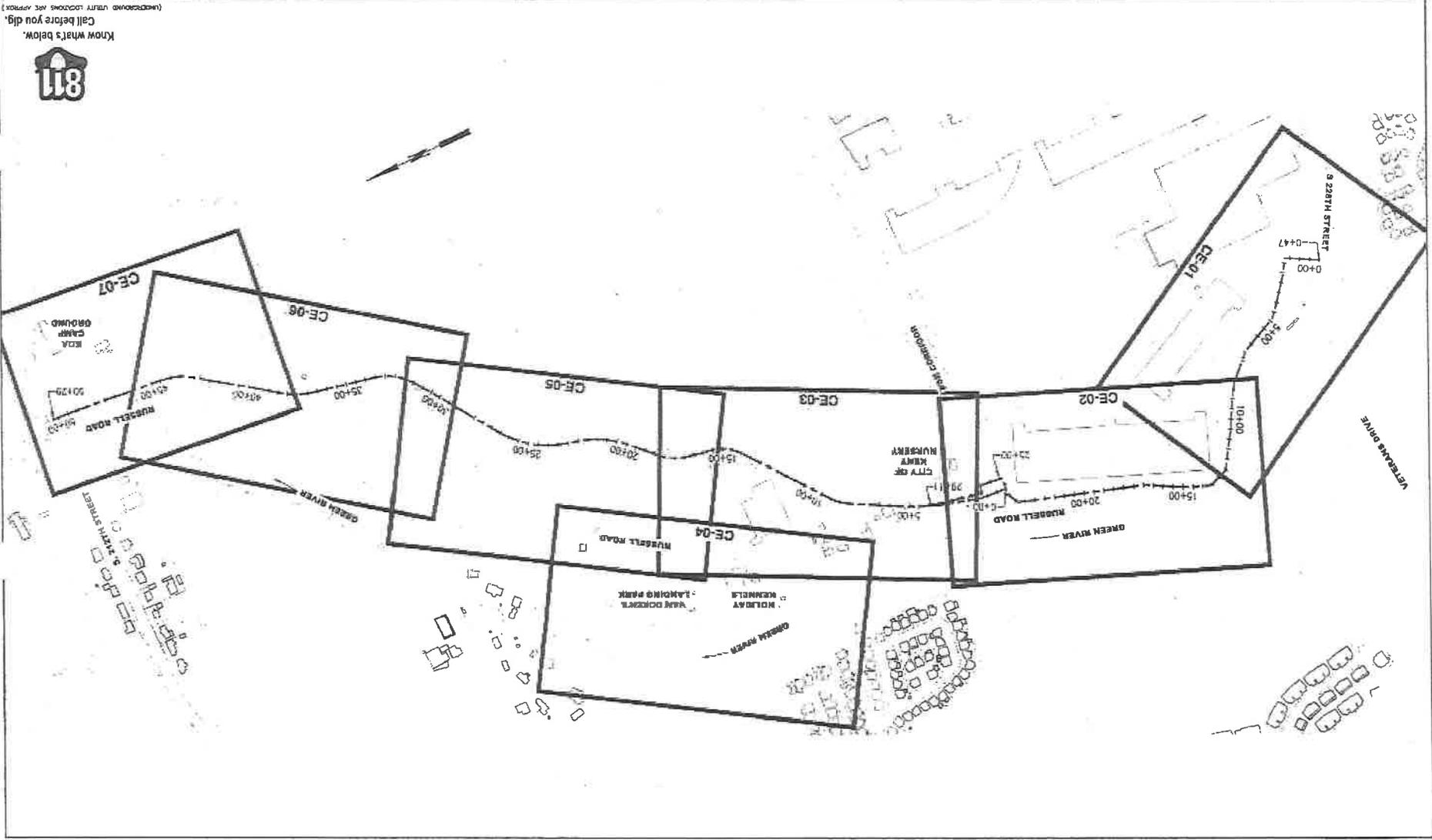


King County
 Department of Natural Resources and Parks
 Wild and Land Resources Division
 River and Floodplain Management Section
 Cheryl Trice, Director

TESC KEY MAP

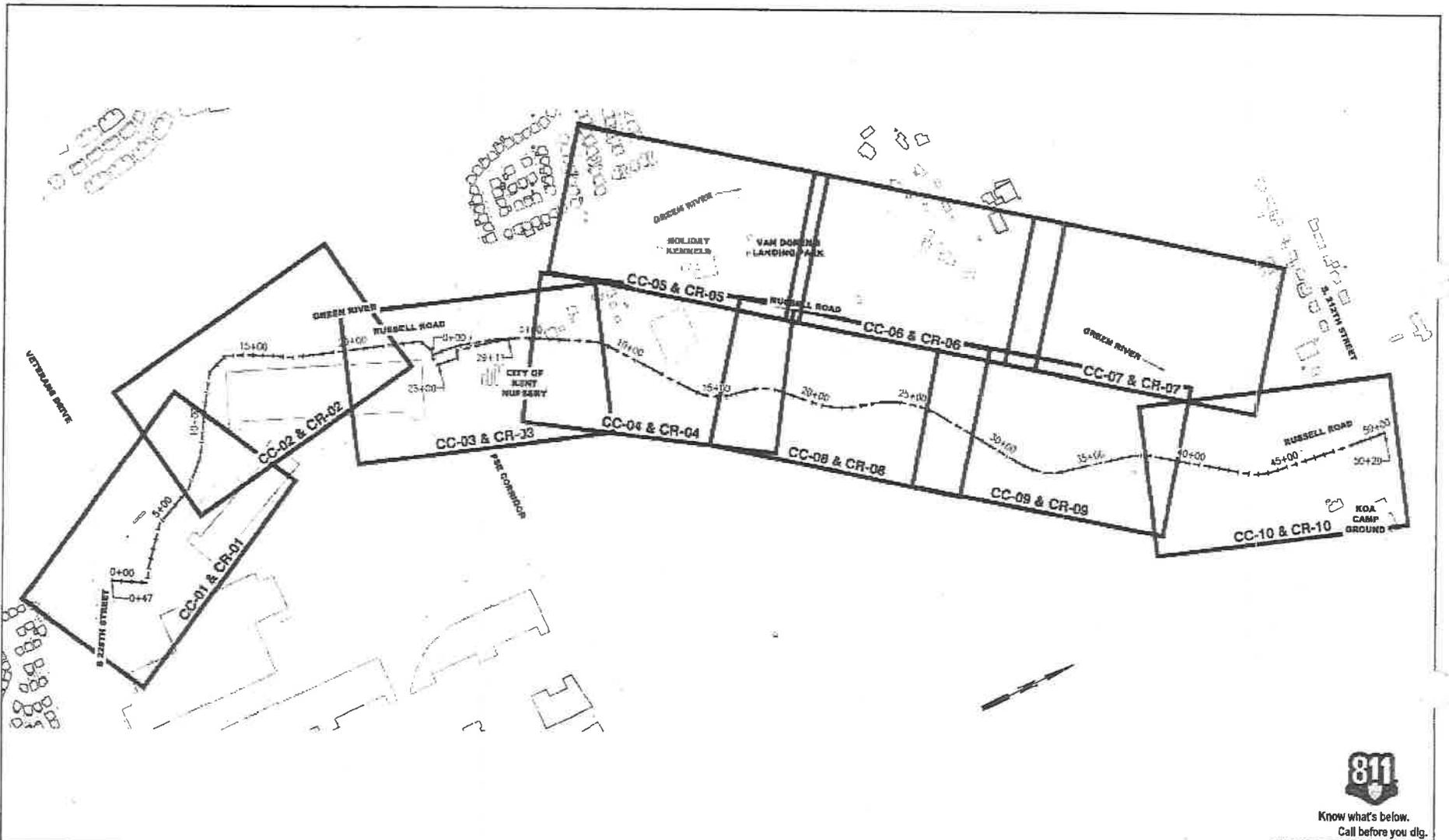
LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2

G-07
 SHEET



Know what's below.
 Call before you dig.

(unapproved utility locations not shown)




Know what's below.
 Call before you dig.
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./REVISED:					
CHECKED:					
CAD ENTERED:	K. ISHAMURA	11/2018			
DESIGNED:	ERIK PETERS, P.E.	11/2019			
CHECKED:	ERIK PETERS, P.E.	11/2019			
SUPERVISOR:	LORIN REHELT, P.E.	11/2019			
	RECORD CHANGES APPROVED	BY	DATE		

FUNDING:	
PROJECT No.	1112058
CONTRACT No.	CO1415C22


 11/26/19


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Climate Trust Director

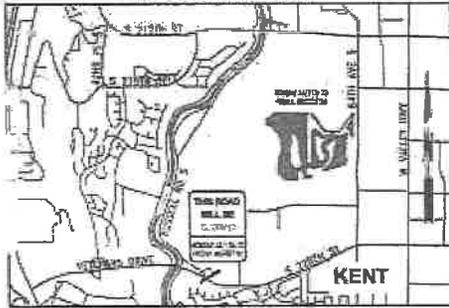
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
DEMOLITIONS & CLEARING PLAN & KEY MAP

SHEET
G-08

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ADVANCE NOTICE

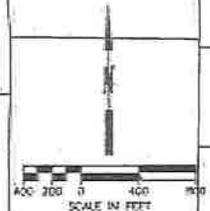
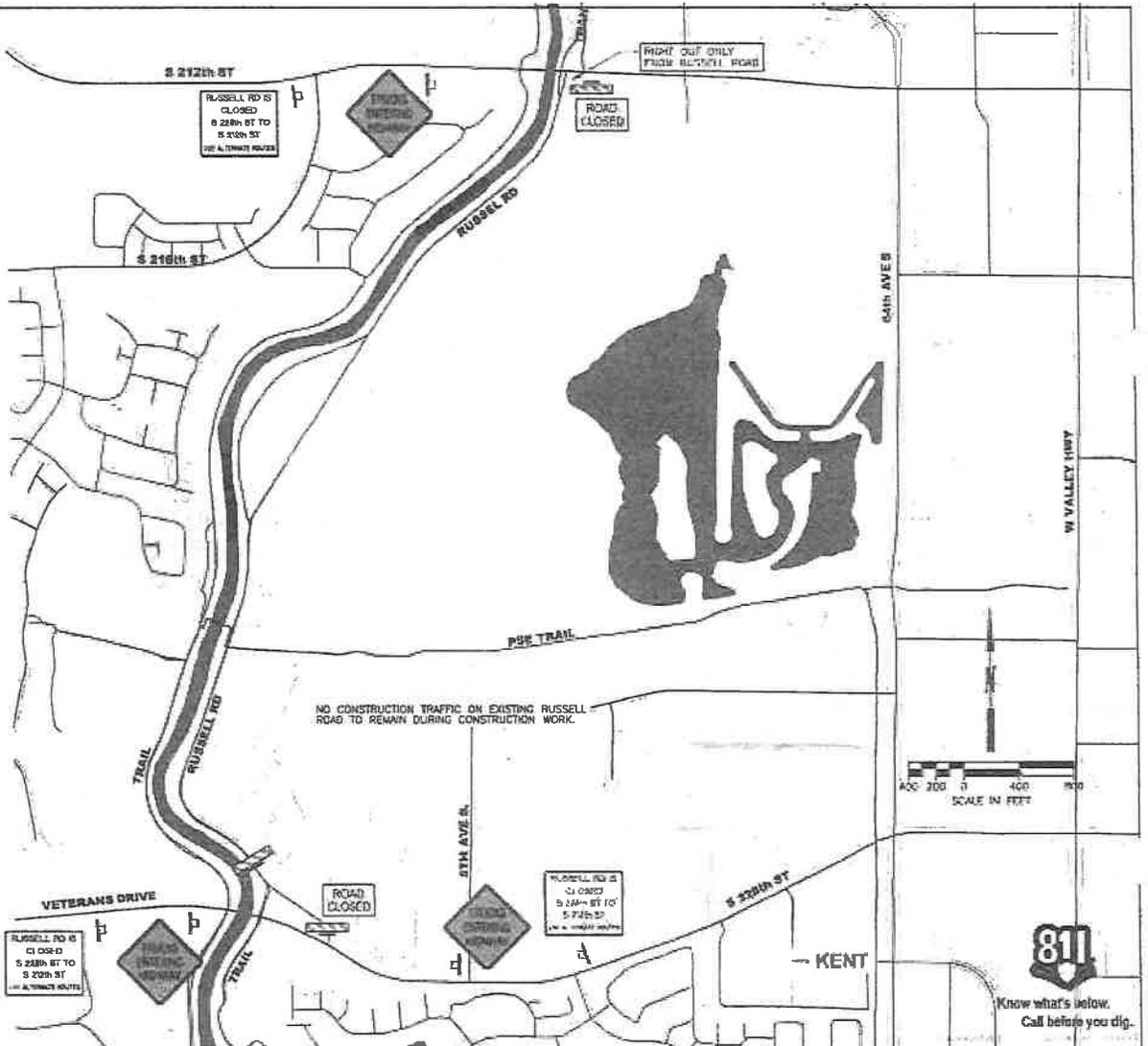
TO BE POSTED 10 DAYS IN ADVANCE



SIGN NOTES

1. INSTALL SIGNS IN COMPLIANCE WITH MUTCD SECTION 2A.16.
2. RETROREFLECTIVITY FOR SIGNS AND BARRICADES SHALL COMPLY WITH MUTCD SECTION 2A.07 & 2A.08.
3. RUSSELL ROAD CLOSURE WILL NOT BE PERMITTED UNTIL THE PLACEMENT OF SIGNS AND BARRICADES HAS BEEN REVIEWED AND APPROVED BY THE PROJECT REPRESENTATIVE.
4. COMPLY WITH APPROVED TRAFFIC CONTROL PLAN.
5. FOR TRUCK HAULING ACCESS FROM THE WORK SITE TO EASTBOUND S. 212TH STREET, PROVIDE SINGLE-LANE CLOSURE TRAFFIC CONTROL IN ACCORDANCE WITH PRE-APPROVED WSDOT TRAFFIC CONTROL PLAN TCP 3.
6. S 212TH ST EGRESS LIMITED TO 7AM - 4PM MONDAY THRU FRIDAY. NO WEEKEND RESTRICTION.

SIGN	NUMBER	SIZE	COLOR	QUANTITY	NOTES
	TYPE 15 BARRICADE			6	PLACE BARRICADES AND SIGNAGE AS NECESSARY TO PREVENT USE OF RUSSELL RD TO REMAIN BY CONSTRUCTION VEHICLES.
	R11-2	48"x30"	BLACK ON WHITE	2	
	W21-30	36"x36"	BLACK ON ORANGE	3	
	SPECIAL	48"x60"	BLACK ON WHITE EXCEPT "CLOSED" IN RED	2	DATES AND TIMES SHOWN ARE EXAMPLES ONLY. ACTUAL DATES AND TIMES SHALL BE IN ACCORDANCE WITH THE APPROVED CONSTRUCTION SCHEDULE.
	SPECIAL	72"x60"	BLACK ON WHITE EXCEPT "CLOSED" IN RED	3	



DESIGNED BY: DAN DOVEY, P.E. 11/25/19	PROJECT No. 1112096
CHECKED BY: ERK PETERS, P.E. 11/25/19	CONTRACT No. C01415C20
SUPERVISOR: LORIN REHMET, P.E. 11/25/19	
DATE: 11/25/19	

RECORD CHANGES APPROVED BY DATE



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Troe, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
TRAFFIC CONTROL

SHEET
G-09

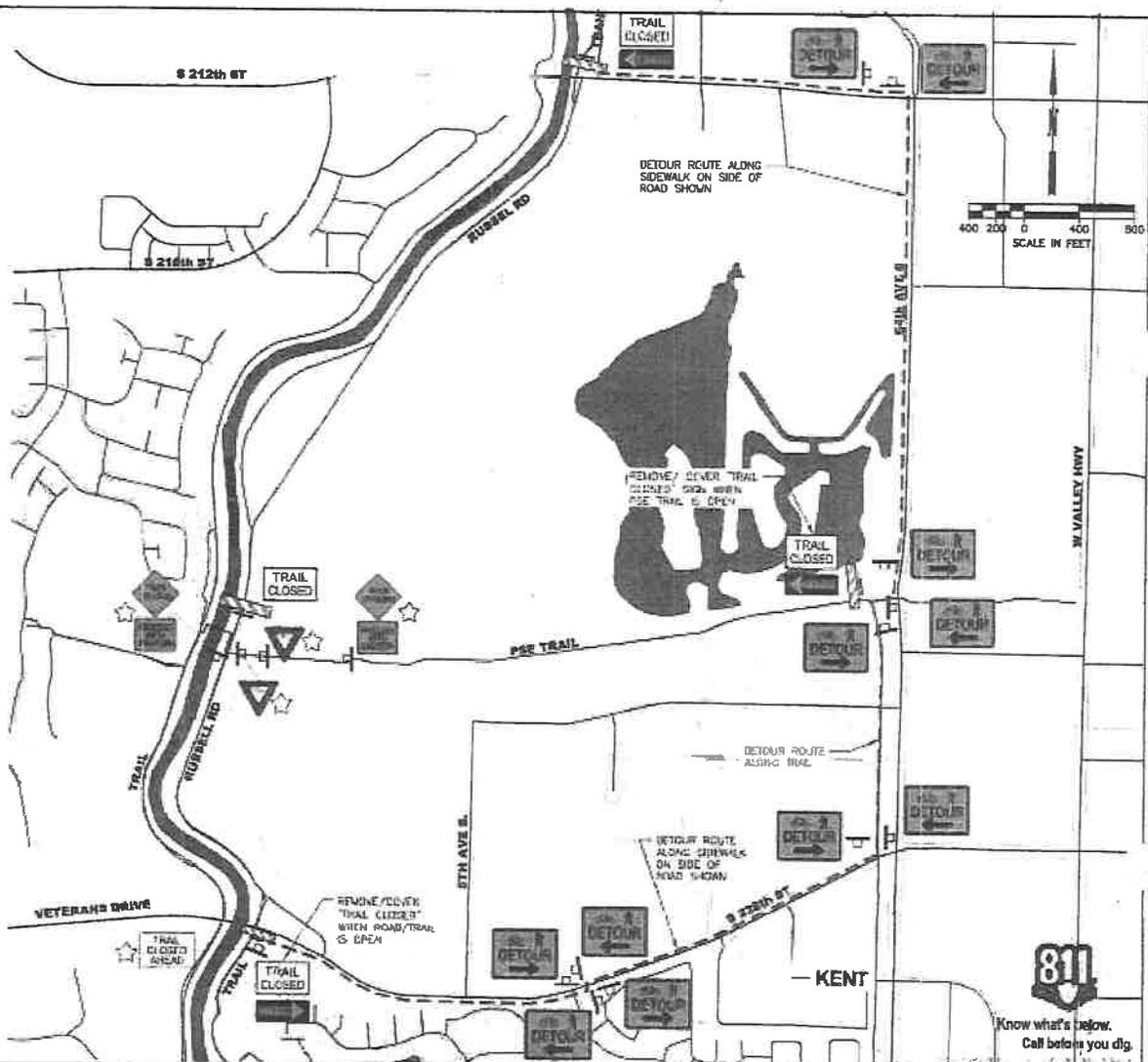
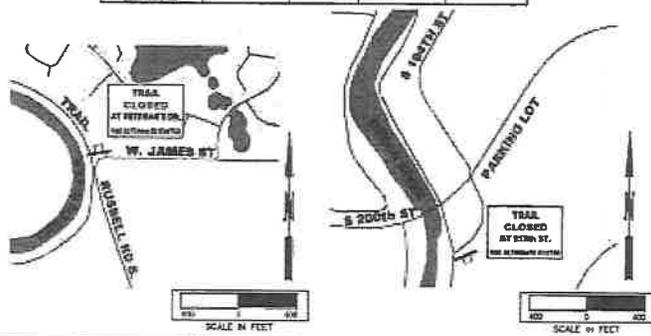


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SIGN NOTES

1. SIGNS SHALL BE INSTALLED IN COMPLIANCE WITH MUTCD SECTION 2A.16.
2. RETROREFLECTIVITY FOR SIGNS AND BARRICADES SHALL COMPLY WITH MUTCD SECTION 2A.07 & 2A.08.
3. THE CLOSURE WILL NOT BE PERMITTED UNTIL THE PLACEMENT OF SIGNS AND BARRICADES HAS BEEN REVIEWED AND APPROVED BY THE PROJECT REPRESENTATIVE.
4. SIGNS WITH  IN USE WHEN PSE TRAIL IS OPEN AND NOT UNDER RECONSTRUCTION.

SIGN	NUMBER	SIZE	COLOR	QUANTITY
	TYPE III BARRICADE			4
	R11-2 (MOD)	30"x48"	BLACK ON WHITE	4
	M4-9L	30"x36"	BLACK ON ORANGE	5
	M4-9R	30"x36"	BLACK ON ORANGE	6
	M4-10L	18"x48"	BLACK ON ORANGE	2
	M4-10R	18"x48"	BLACK ON ORANGE	1
	SPECIAL	30"x42"	BLACK ON WHITE EXCEPT "CLOSED" IN RED	1
	SPECIAL	30"x42"	BLACK ON WHITE EXCEPT "CLOSED" IN RED	1
	R1-2	24"x24"	RED ON WHITE	2
	W8-6	30"x30"	BLACK ON ORANGE	2
	SPECIAL	24"x30"	BLACK ON ORANGE	2
	R11-3 (MOD)	30"x48"	BLACK ON WHITE	1



SUBMIT JOB NO./DATE		FUNDING:	
DESIGNED:	D.B. KIL	11/2019	
CAD ENTRIES:	DAN DOVEY, P.E.	11/2019	
DESIGNED:	ERIK PETERS, P.E.	11/2019	
CHECKED:	ERIK PETERS, P.E.	11/2019	
SUPERVISOR:	LORIN REYNOLDS, P.E.	11/2019	
TRAIL RECORD CHANGED APPROVED BY:		DATE:	

PROJECT No. 1112055	CONTRACT No. C01415C02
---------------------	------------------------

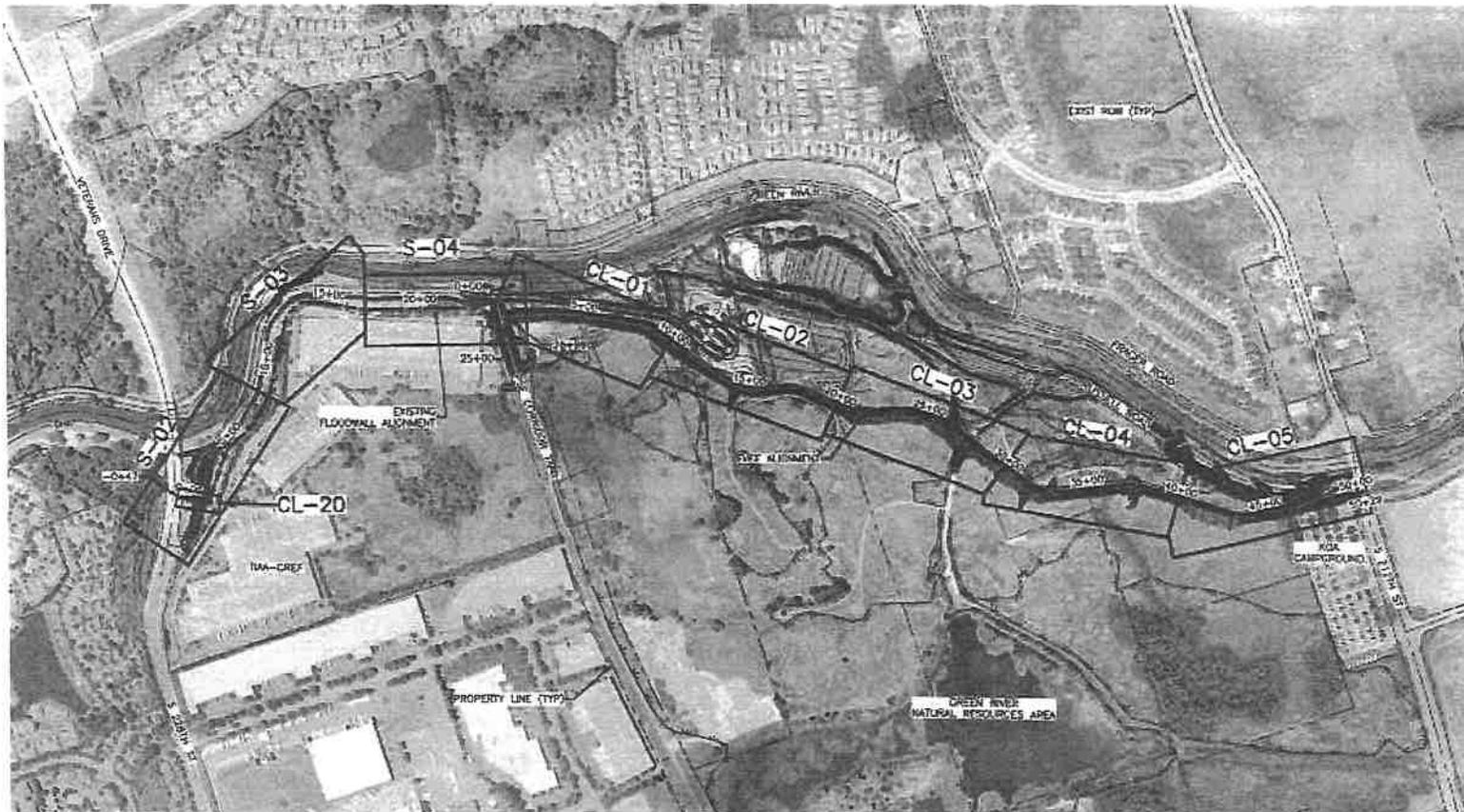


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christa Tye, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2**
TRAIL CLOSURE AND DETOUR PLAN

SHEET
G-10





300 150 0 300 600
SCALE IN FEET



CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555

Know what's below.
Call before you dig.

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
LEVEE AND FLOODWALL
SITE PLAN AND KEY MAP

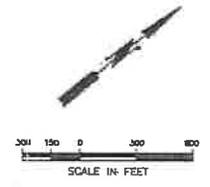
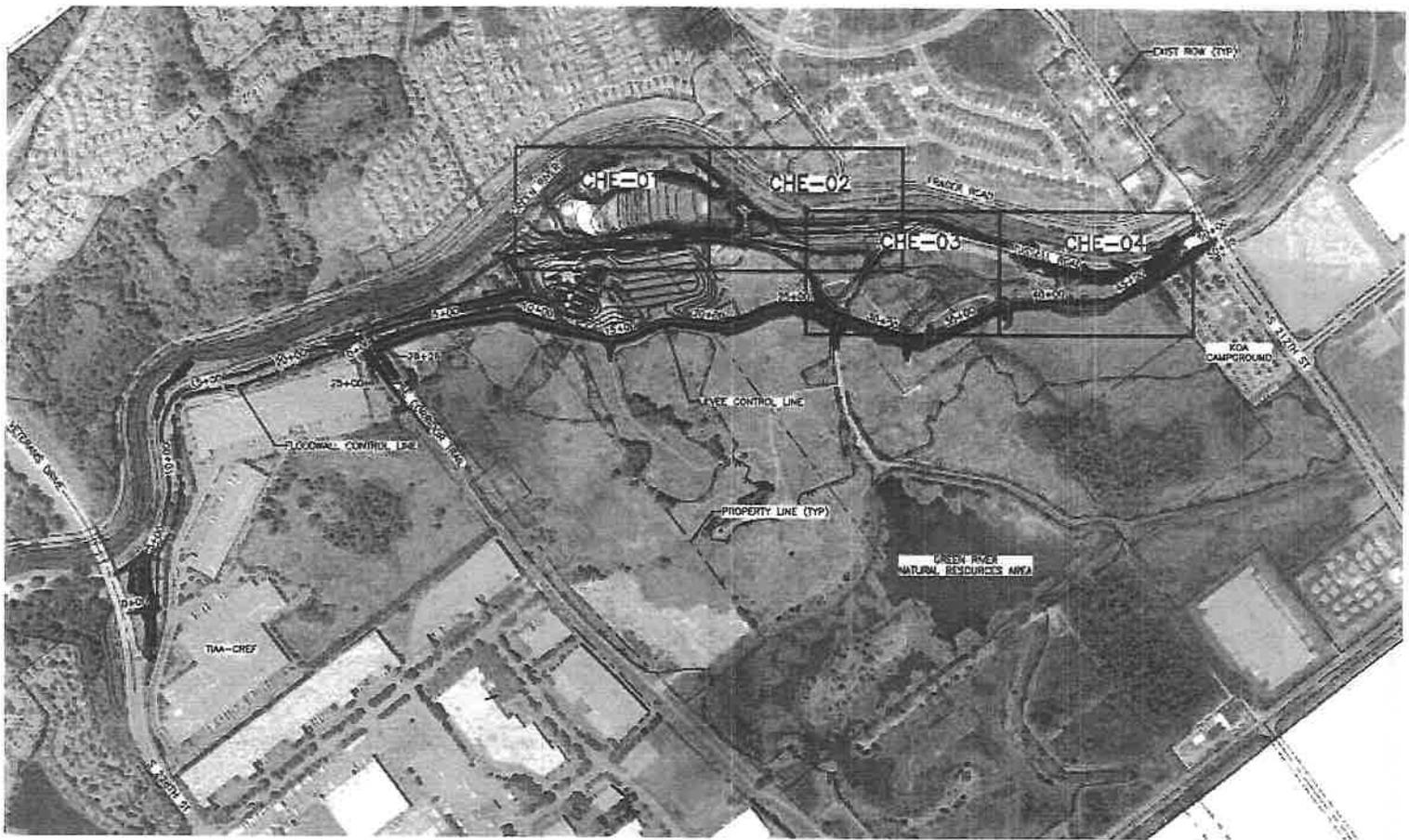
SHEET
G-11

SURVEY JOB NO./SCALE:					
CHECKED:					
CAD ENTERER:	RD	11/19			
DESIGNED:	MR	11/18	HNL	REVISION	BY DATE
CHECKED:	KF	11/18			
SUPERVISOR:	SJ	11/19			
	HNL		RECORD CHANGES APPROVED	BY	DATE

FLUWING: _____
PROJECT No. 1112056
CONTRACT No. C01415C20



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Tran, Director



CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
 Know what's below.
 Call before you dig.

SURVEY JOB NO./SOURCE					
CHECKED:					
CAD ENTERED:	RD	11/19			
DESIGNED:	WR	11/19	RM	REYSON	BT DGR
CHECKED:	KF	11/19			
SUPERVISOR:	SJ	11/19			
	RM	RECORD CHANGES APPROVED	BT	DATE	

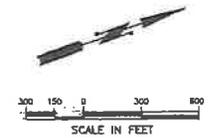
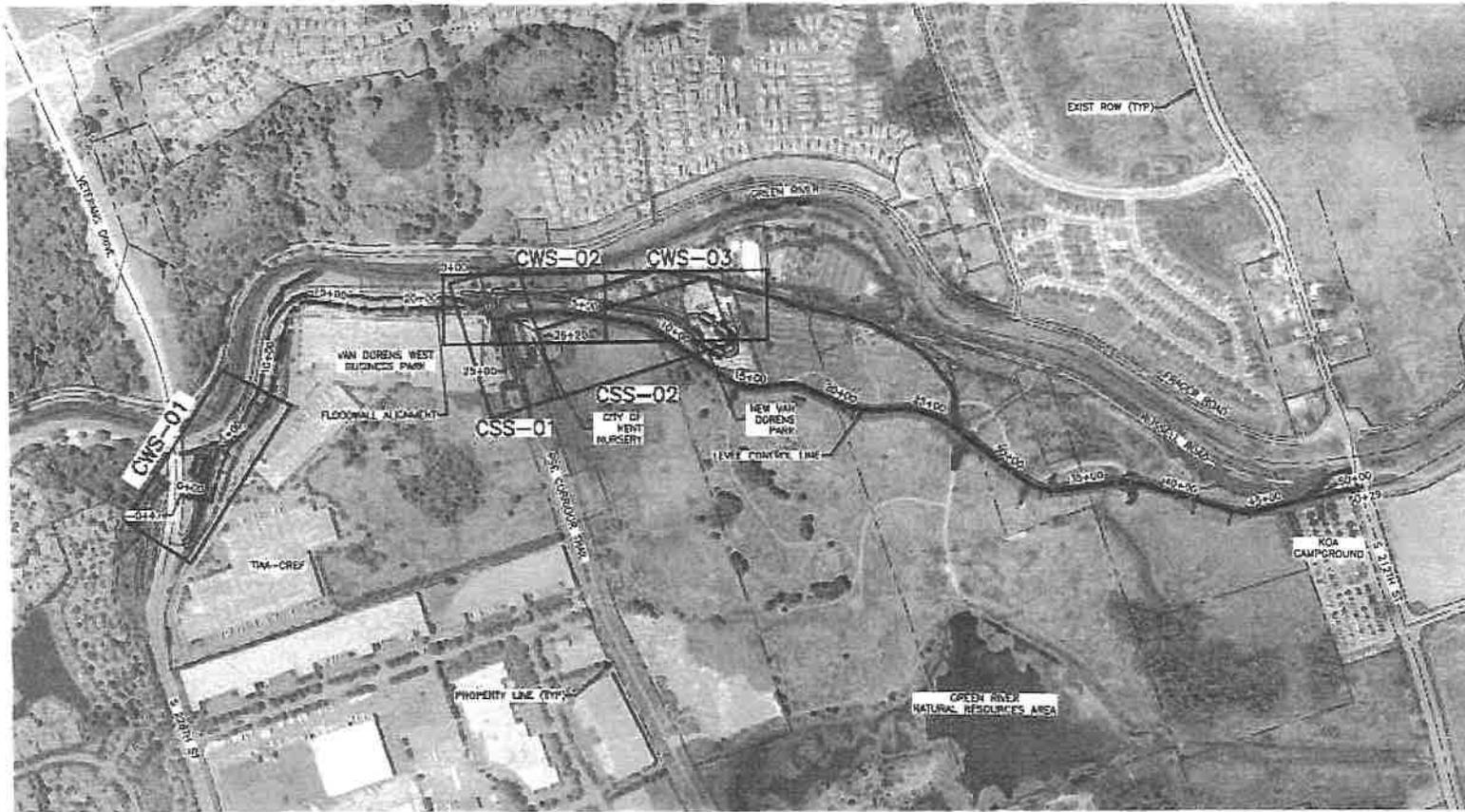
FUNDING:	
PROJECT No.	1112096
CONTRACT No.	001413C20



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chris Triss, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
HABITAT EXCAVATION
SITE PLAN AND KEY MAP

SHEET
G-12



CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

Know what's below.
Call before you dig.

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
**WATER AND SEWER
SITE PLAN AND KEY MAP**

SHEET
G-13

SURVEY JOB NO./SCALE:	---	---	---	---	---	---	---	---	---
CHECKED:	---	---	---	---	---	---	---	---	---
CAD ENTERED:	CME	11/19							
DESIGNED:	AE	11/19	M.M.	ADVISOR	BT	DATE			
CHECKED:	JG	11/19							
SUPERVISOR:	SL	11/19							
	MAN.	RECORD CHANGES APPROVED BY	DATE						

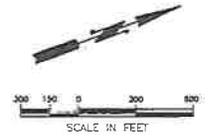
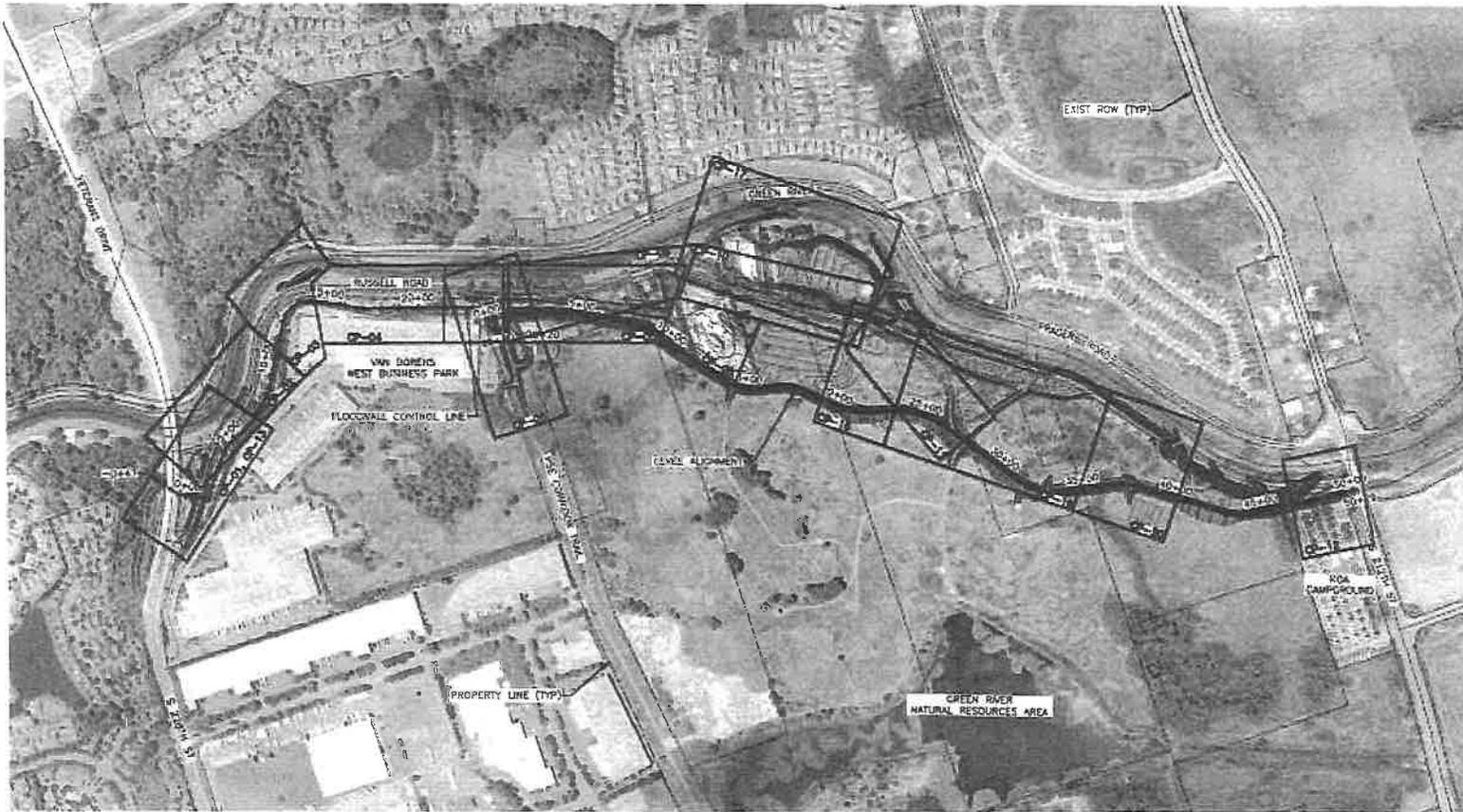
PLANNING:

PROJECT No. 1112056

CONTRACT No. C01415C20



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Trux, Director



SURVEY JOB NO./SOURCE:					
DRAWN BY:	RD	11/78			
DESIGNED BY:	SB	11/78	REVISION	BY	DATE
CHECKED BY:	JG	11/78			
SUPERVISOR:	SJ	11/78			
	NUM.	RECORD CHANGES APPROVED	BY	DATE	

FUTURE:

PROJECT No. 1112056

CONTRACT No. C01615C20



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Trone, Director

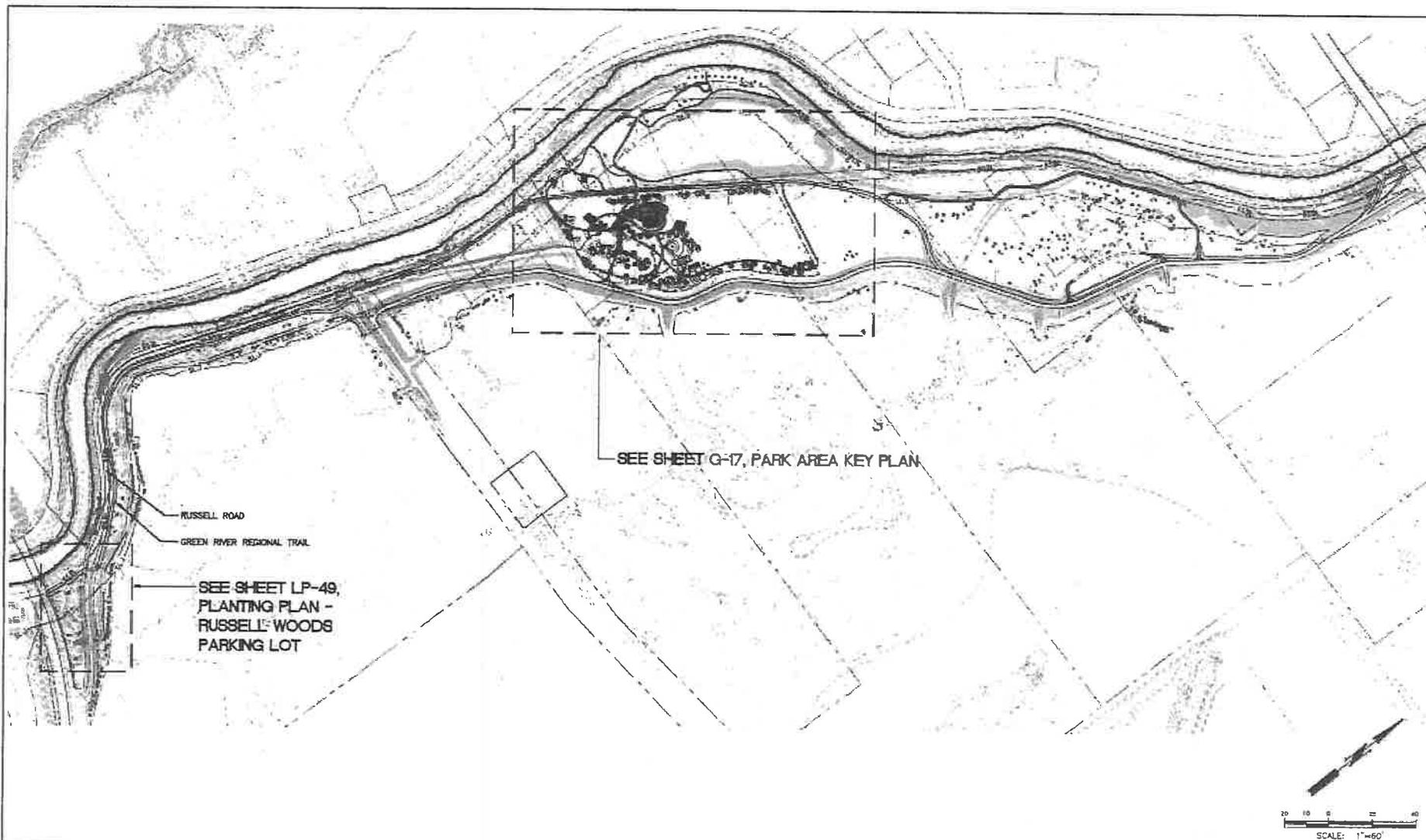
LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 STREET AND TRAIL
 SITE PLAN AND KEY MAP

SHEET
 G-15

CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATING ATE APPROX)



Know what's below.
 Call before you dig.



SURVEY JOB NO./SUBJECT: CHECKED: CAD ENTERED: 11/27/19 DESIGNED: 11/27/19 CHECKED: 11/27/19 SUPERVISOR: 11/27/19		NUMBER: PROJECT No. 1112056 CONTRACT No. CD1415C2C		 11/27/19		 King County Department of Natural Resources and Parks Water and Land Resources Division River and Floodplain Management Section Christa True, Director	LOWER RUSSELL LEVEE SETBACK PROJECT PHASE 2 LANDSCAPE KEY PLAN VAN DOREN'S PARK AND RUSSELL WOODS PARKING LOT	SHEET G-16
REVISIONS: NO. DATE BY REVISION		RECORD CHANGES APPROVED BY: _____ DATE: _____						

PARK AREA SHEET INDEX:

PLAN AREA A
 SHEET LP-11 MATERIALS PLAN
 SHEET LP-21 LAYOUT & GRADING
 SHEET LP-41 PLANTING PLAN
 SHEET LP-51 IRRIGATION PLAN

PLAN AREA B
 SHEET LP-12 MATERIALS PLAN
 SHEET LP-22 LAYOUT & GRADING
 SHEET LP-42 PLANTING PLAN
 SHEET LP-52 IRRIGATION PLAN

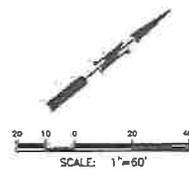
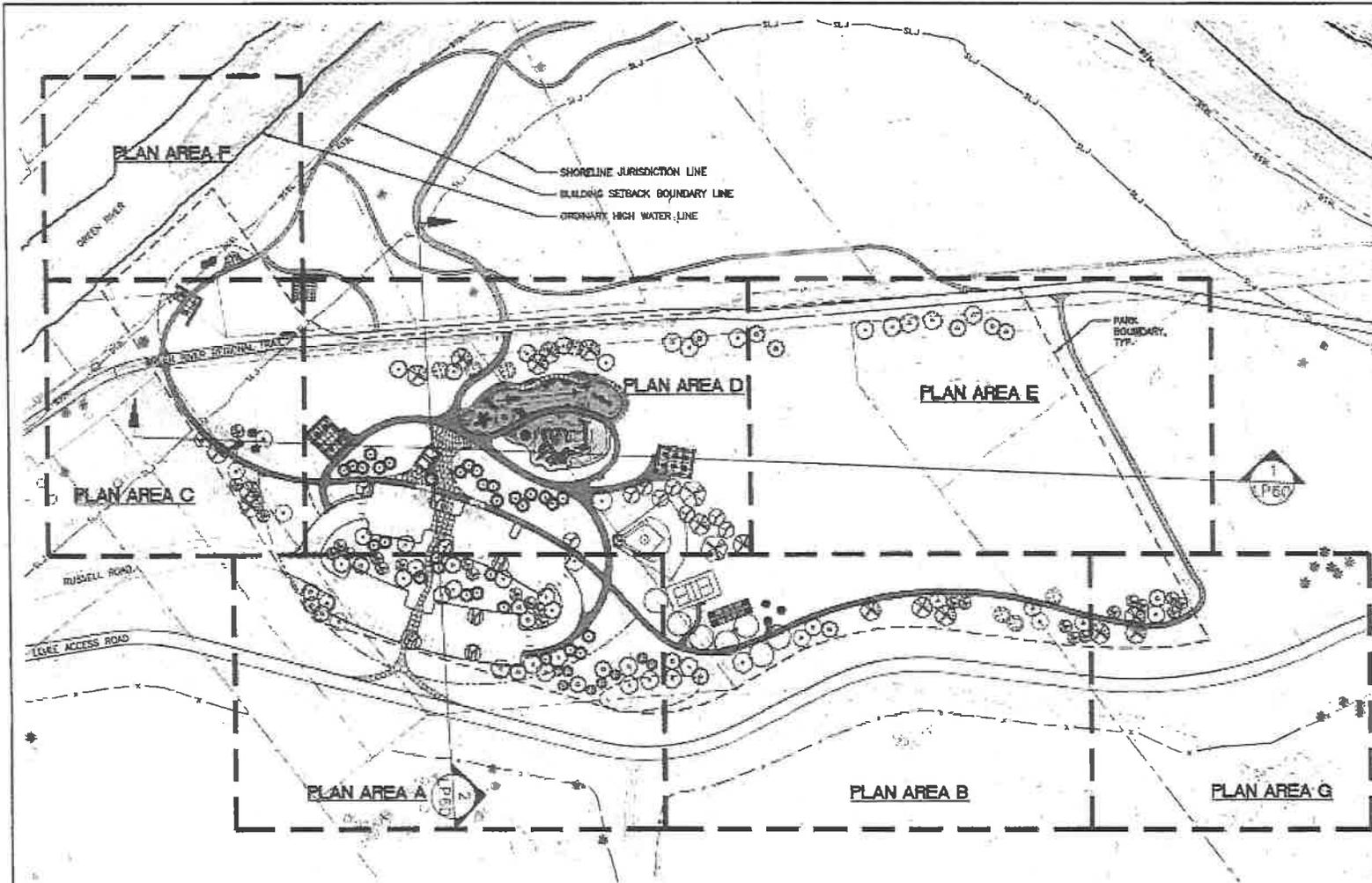
PLAN AREA C
 SHEET LP-13 MATERIALS PLAN
 SHEET LP-23 LAYOUT & GRADING
 SHEET LP-43 PLANTING PLAN
 SHEET LP-53 IRRIGATION PLAN

PLAN AREA D
 SHEET LP-14 MATERIALS PLAN
 SHEET LP-24 LAYOUT & GRADING
 SHEET LP-44 PLANTING PLAN
 SHEET LP-54 IRRIGATION PLAN

PLAN AREA E
 SHEET LP-15 MATERIALS PLAN
 SHEET LP-25 LAYOUT & GRADING
 SHEET LP-45 PLANTING PLAN
 SHEET LP-55 IRRIGATION PLAN

PLAN AREA F
 A/SHEET LP-16 MATERIALS PLAN
 A/SHEET LP-26 LAYOUT & GRADING
 A/SHEET LP-46 PLANTING PLAN

PLAN AREA G
 B/SHEET LP-16 MATERIALS PLAN
 B/SHEET LP-26 LAYOUT & GRADING
 B/SHEET LP-46 PLANTING PLAN
 SHEET LP-56 IRRIGATION PLAN



DRAFT JOB NO./SOURCE:			
CHECKED:			
DATE DETERMINED:	01/27/19	01/27/19	
DESIGNED:	02/08	11/27/19	N.M. REVISION BY DATE
CHECKED:	08	11/27/19	
SUPERVISOR:	08	11/27/19	
	N.M.	RECORD CHANGES APPROVED BY DATE	

FUNDING:	
PROJECT No.	1112056
CONTRACT No.	CD1415C20



11/27/19

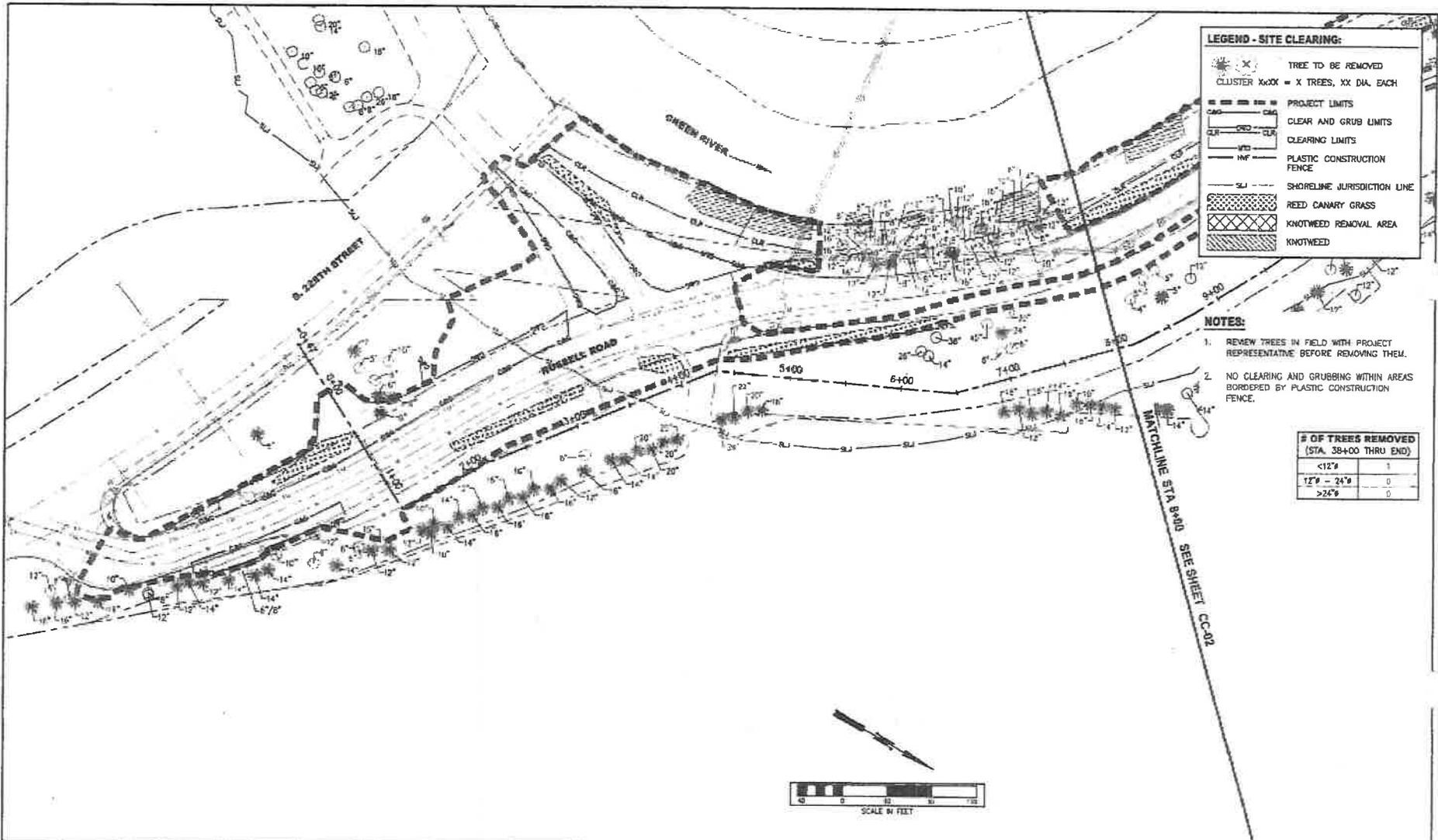


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Tins, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 PARK AREA KEY PLAN**

SHEET
G-17

I:\1- RIVERS CAD SUPPORT\LowRusRdrLevel_PHASE_2\VP2_LRR_CC.dwg, 11/25/2019 3:58:15 PM, AutoCAD PDF (General Documentation).pc3



SURVEY JOB NO./SUBJECT		DRAWING	
DESIGNED BY	DATE	PROJECT No.	11120036
DESIGNED BY	DATE	CONTRACT No.	CO141BC20
CHECKED BY	DATE		
SUPERVISOR	DATE		
DATE	REVISIONS APPROVED BY	DATE	

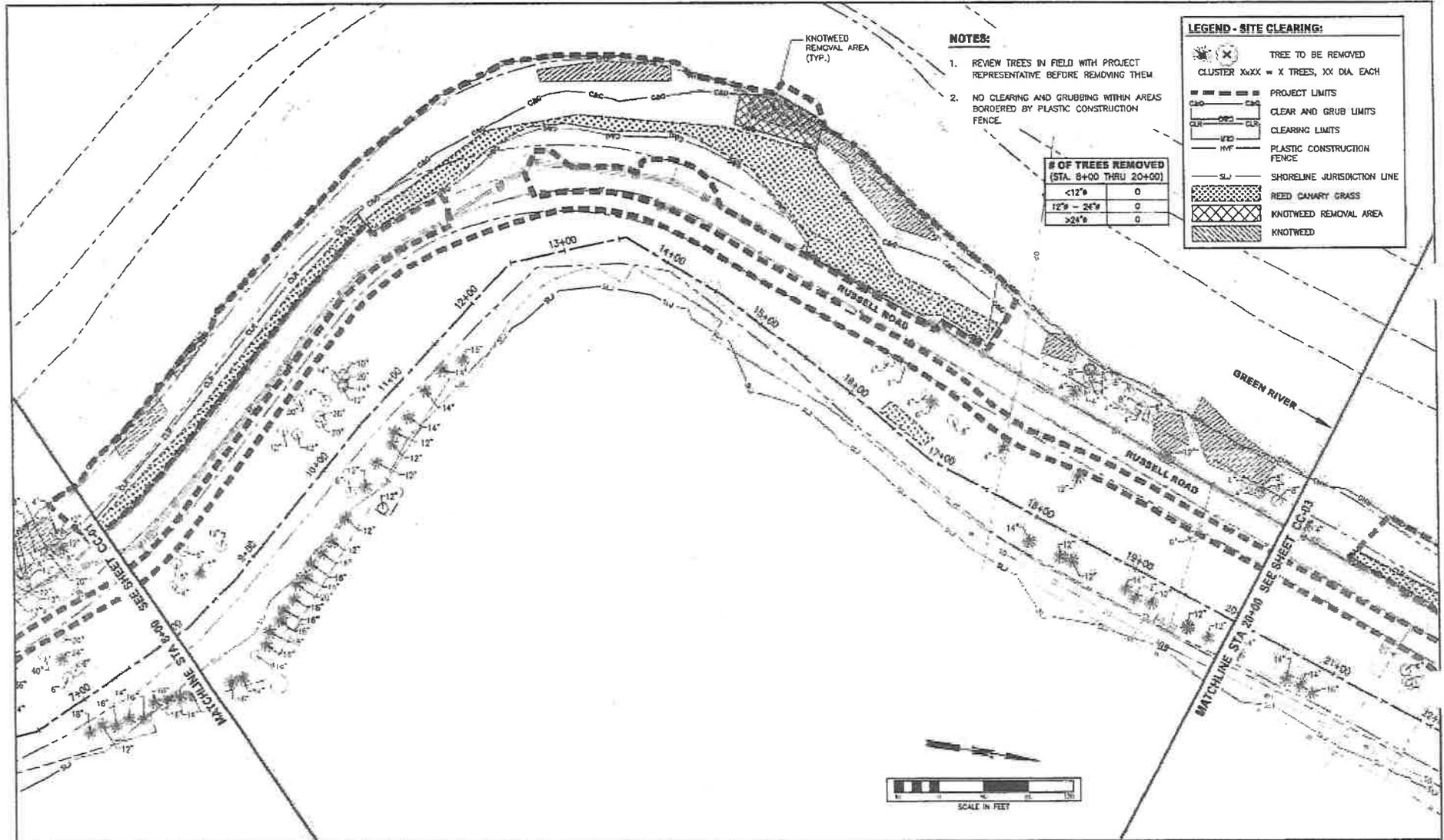


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chris Tru, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
CLEARING 1

SHEET
CC-01

R1-RIVERS CAD SUPPORT\LowRussRdLevee_PHASE_2\RR_CC.dwg, 11/25/2019 3:58:29 PM, AutoCAD PDF (General Documentation).pc3



NOTES:

1. REVIEW TREES IN FIELD WITH PROJECT REPRESENTATIVE BEFORE REMOVING THEM
2. NO CLEARING AND GRUBBING WITHIN AREAS BORDERED BY PLASTIC CONSTRUCTION FENCE.

LEGEND - SITE CLEARING:

	TREE TO BE REMOVED
CLUSTER XXXX = X TREES, XX DIA. EACH	
	PROJECT LIMITS
	CLEAR AND GRUB LIMITS
	CLEARING LIMITS
	PLASTIC CONSTRUCTION FENCE
	SHORELINE JURISDICTION LINE
	REED CANARY GRASS
	KNOTWEED REMOVAL AREA
	KNOTWEED

# OF TREES REMOVED (STA. 8+00 THRU 20+00)	
<12"	0
12" - 24"	0
>24"	0

SURVEY JOB NO./SCALE:		REVISION		BY		DATE	
CHECKED:	K. KITAMURA	11/2019					
CDR DESIGNED:	ERIK PETERS, P.E.	11/2019					
DRAWN:	ERIK PETERS, P.E.	11/2019					
CHECKED:	ERIK PETERS, P.E.	11/2019					
SUPERVISOR:	LORIN REINHILT, P.E.	11/2019					
SEAL	RECORD CHANGES APPROVED	BY	DATE				

FUNDING	
PROJECT No.	1112055
CONTRACT No.	C01415C20

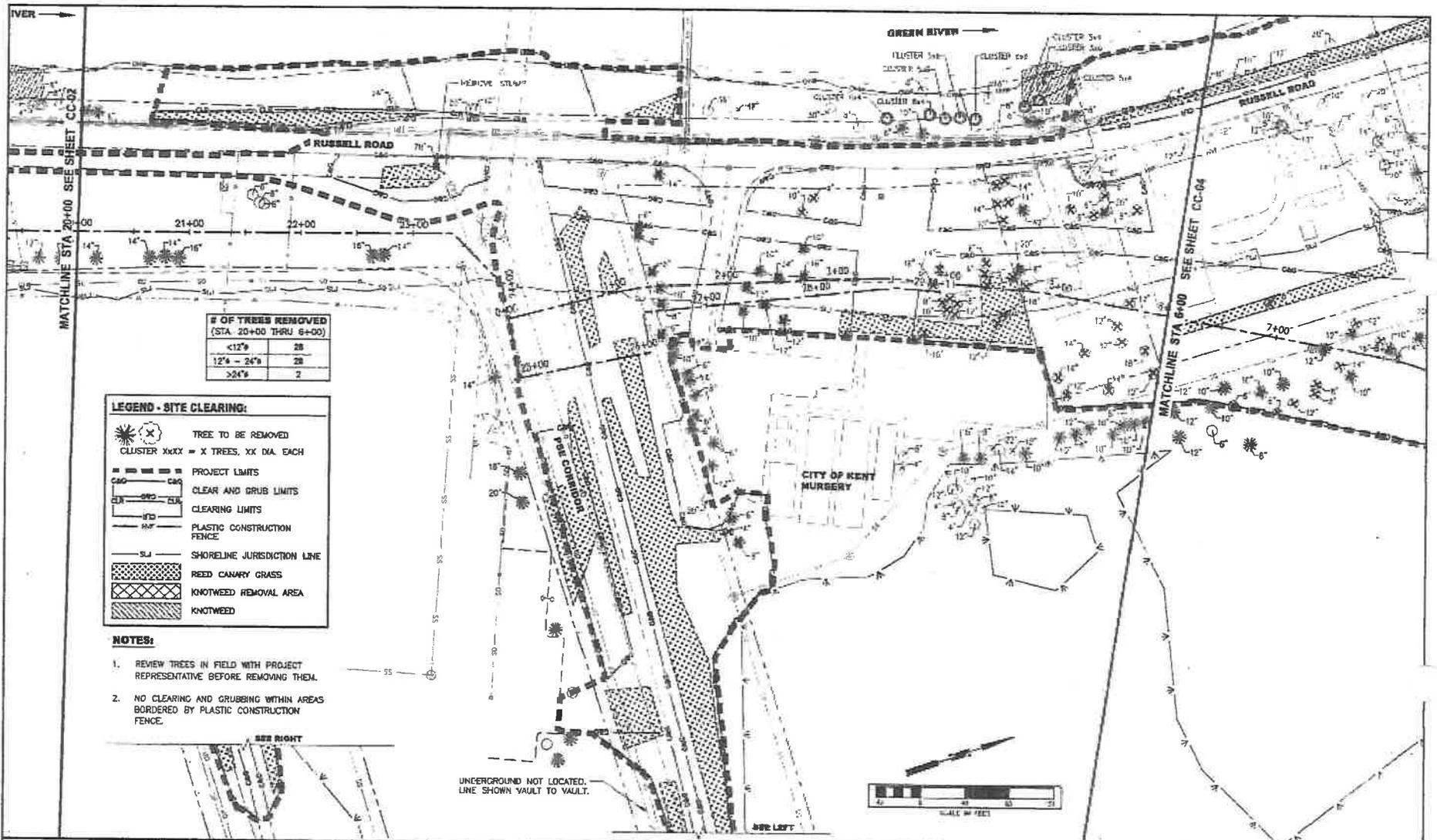


King County
 Departments of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Clusbe True, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2**

CLEARING 2

SHEET
CC-02



SURVEY JOB NO./SCALE:					
CHECKED:					
CAD ENTRED:	K. KITAJIMA	11/2019			
DESIGNED:	ERIK PETERS, P.E.	11/2019	MAN.	DESIGN	DW
CHECKED:	ERIK PETERS, P.E.	11/2019			
SUPERVISOR:	LOREN RESNELL, P.E.	11/2019			
			RECORD CHANGES APPROVED	BY	DATE

FURNISH:	
PROJECT No.	1312004
CONTRACT No.	03T-439C2D

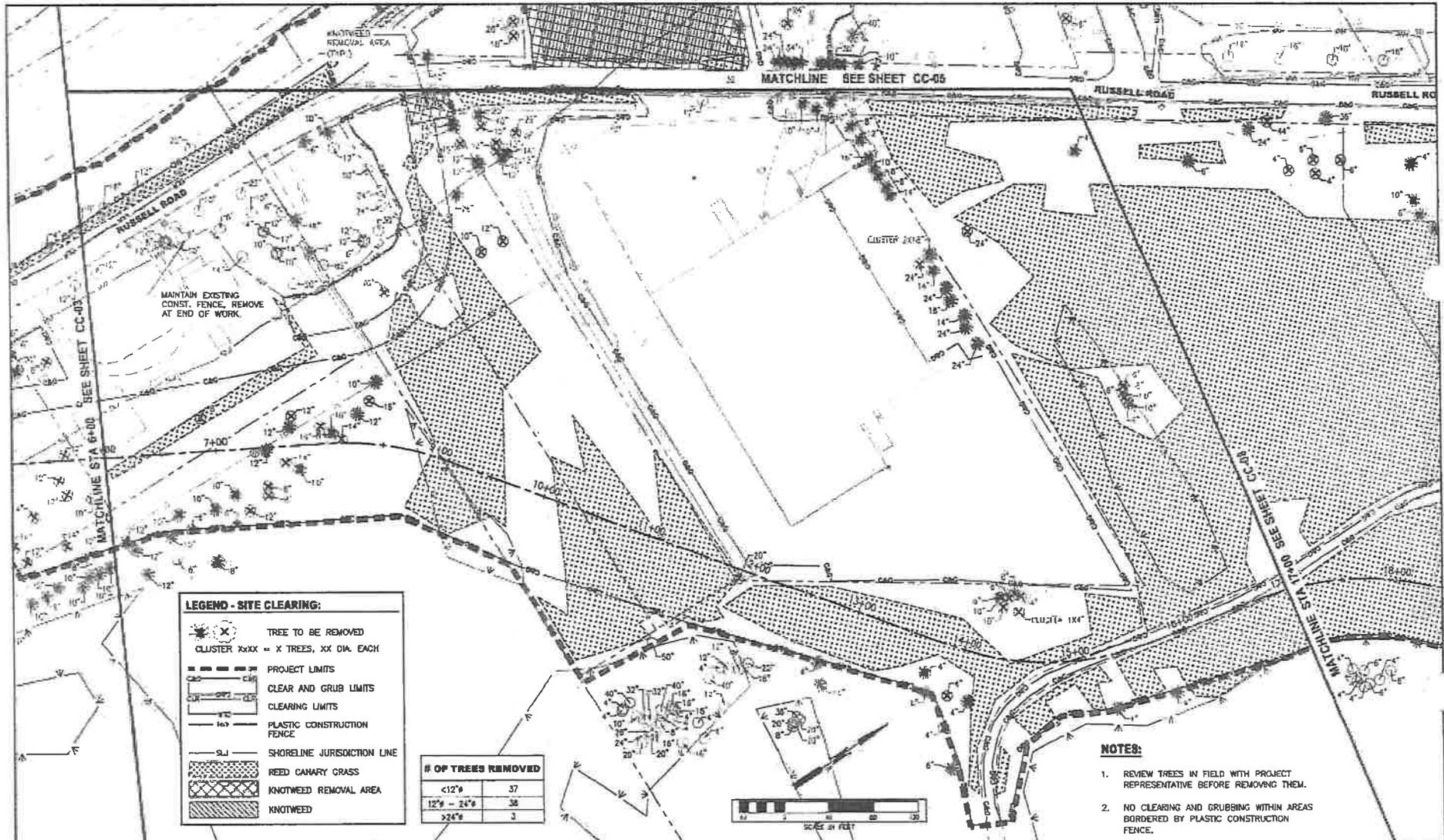


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christa Tree Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 CLEARING 3**

SHEET
CC-03

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LEGEND - SITE CLEARING:

- TREE TO BE REMOVED
- CLUSTER XXXX - X TREES, XX DIA. EACH
- PROJECT LIMITS
- CLEAR AND GRUB LIMITS
- CLEARING LIMITS
- PLASTIC CONSTRUCTION FENCE
- SHORELINE JURISDICTION LINE
- REED CANARY GRASS
- KNOTWEED REMOVAL AREA
- KNOTWEED

OF TREES REMOVED

<12"	37
12" - 24"	38
>24"	3

- NOTES:**
- REVIEW TREES IN FIELD WITH PROJECT REPRESENTATIVE BEFORE REMOVING THEM.
 - NO CLEARING AND GRUBBING WITHIN AREAS BORDERED BY PLASTIC CONSTRUCTION FENCE.

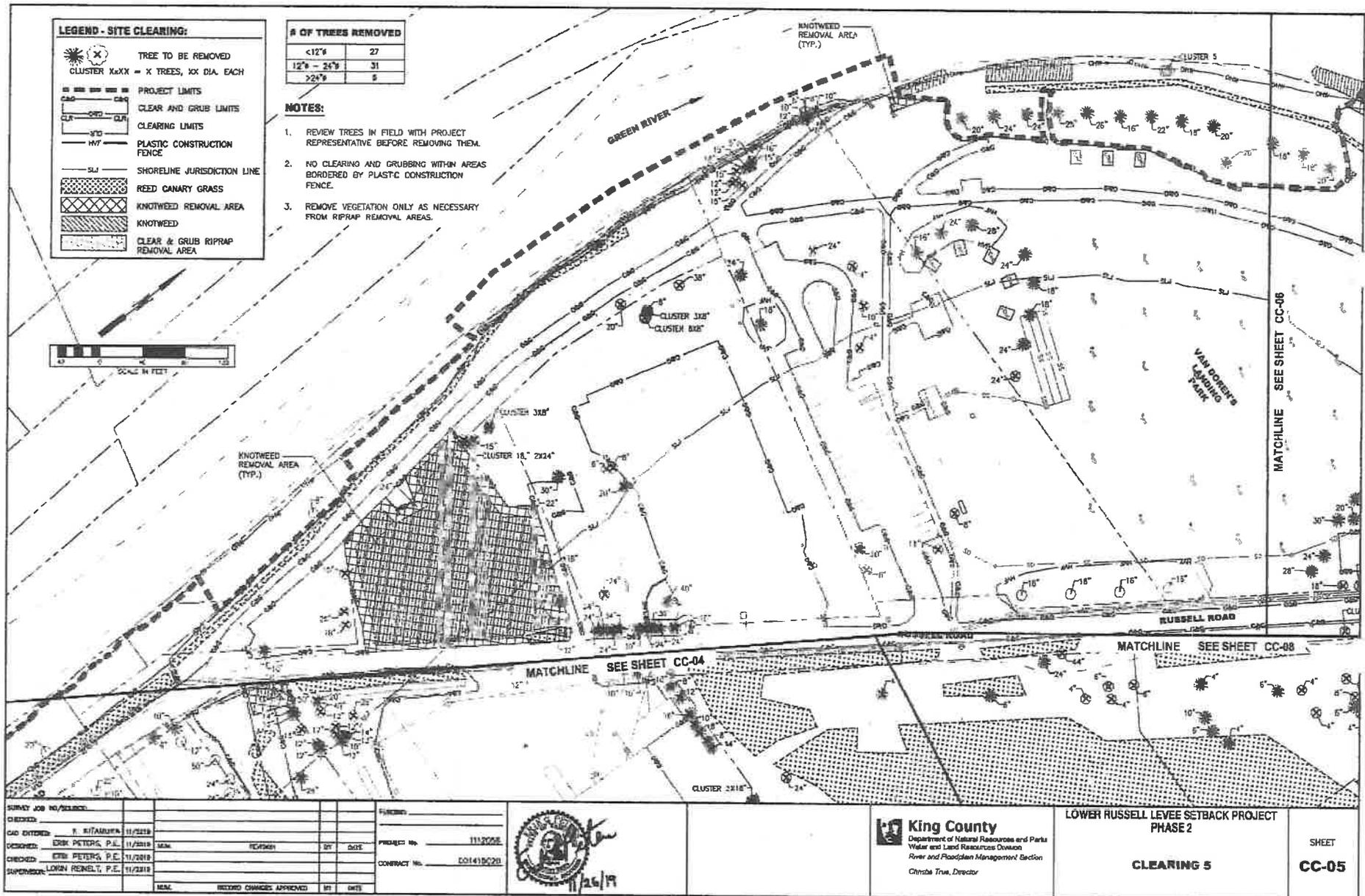
SURVEY JOB NO./DATE:		FUNDING:	
DESIGNED BY:	K. KITAMURA 11/2018	PROJECT No.	1112056
DESIGNED BY:	ERIK PETERS, P.E. 11/2018	CONTRACT No.	COE143C3D
CHECKED BY:	ERIK PETERS, P.E. 11/2018		
SUPERVISOR:	LOREN SCHMELT, P.E. 11/2018		
DATE:	RECORD CHANGES APPROVED BY DATE:		



King County
 Department of Natural Resources and Parks
 Water and Floodplain Management Division
 River and Floodplain Management Section
 Christie Tru, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
CLEARING 4

SHEET
CC-04



LEGEND - SITE CLEARING:

	TREE TO BE REMOVED
	CLUSTER KxXx = X TREES, KX DIA. EACH
	PROJECT LIMITS
	CLEAR AND GRUB LIMITS
	CLEARING LIMITS
	PLASTIC CONSTRUCTION FENCE
	SHORELINE JURISDICTION LINE
	REED CANARY GRASS
	KNOTWEED REMOVAL AREA
	KNOTWEED
	CLEAR & GRUB RIPRAP REMOVAL AREA

OF TREES REMOVED

<12"	27
12" - 24"	31
>24"	5

- NOTES:**
1. REVIEW TREES IN FIELD WITH PROJECT REPRESENTATIVE BEFORE REMOVING THEM.
 2. NO CLEARING AND GRUBBING WITHIN AREAS BORDERED BY PLASTIC CONSTRUCTION FENCE.
 3. REMOVE VEGETATION ONLY AS NECESSARY FROM RIPRAP REMOVAL AREAS.



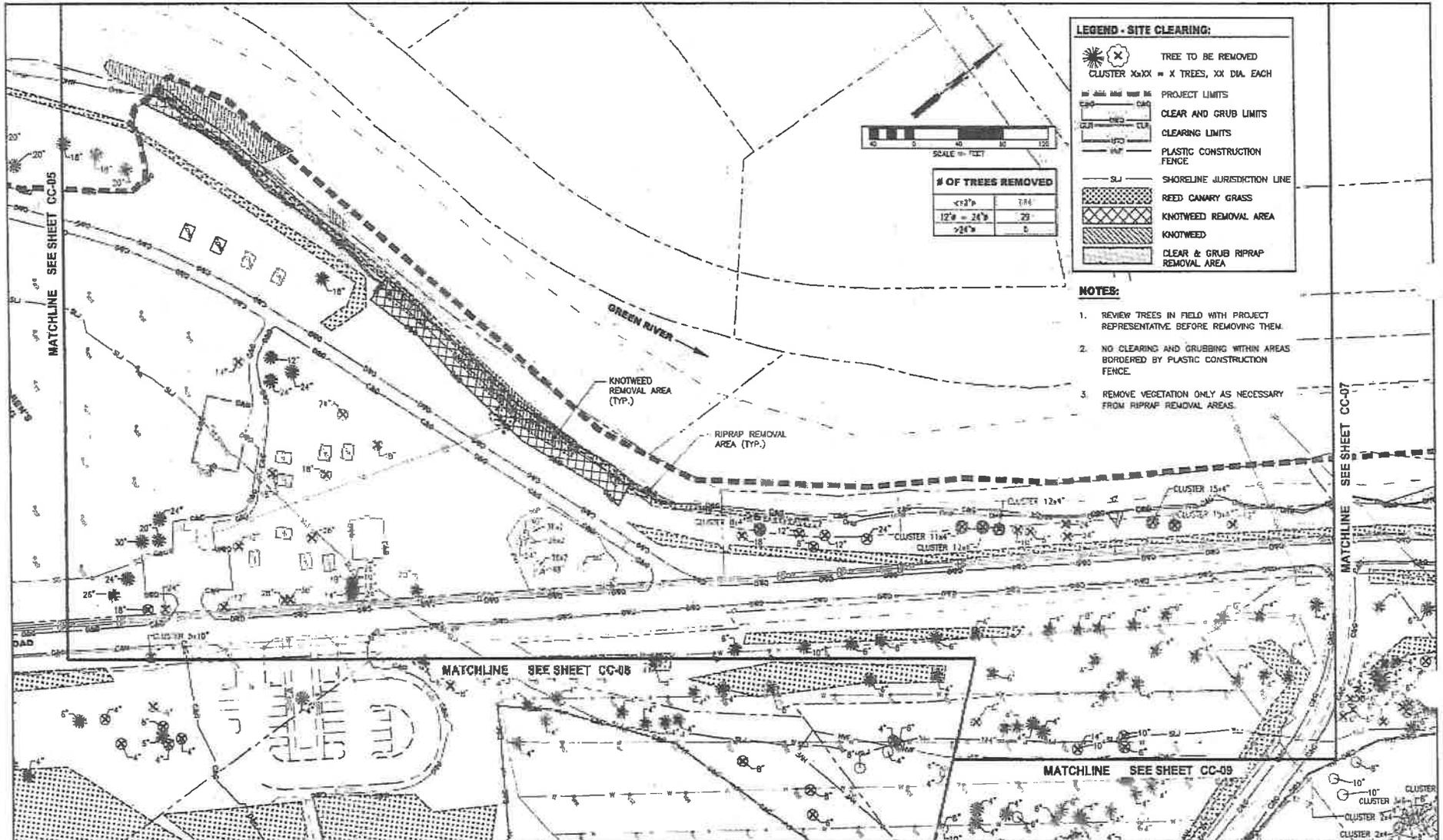
SUMMARY JOB NO./REVISION:		REVISION:	
DESIGNED:	R. NITAMURA 11/22/19	PROJECT No.:	1112025
CAD DWTOR:	E. PETERS, P.E. 11/22/19	CONTRACT No.:	001415020
CHECKED:	E. PETERS, P.E. 11/22/19		
SUPERVISOR:	LOREN REINELT, P.E. 11/22/19		
MEM.	ISSUED CHANGES APPROVED BY DATE		



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chrisa Truss, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 CLEARING 5**

SHEET
CC-05



LEGEND - SITE CLEARING:

- TREE TO BE REMOVED
- CLUSTER XxXx = X TREES, XX DIA. EACH
- PROJECT LIMITS
- CLEAR AND GRUB LIMITS
- CLEARING LIMITS
- PLASTIC CONSTRUCTION FENCE
- SHORELINE JURISDICTION LINE
- REED CANARY GRASS
- KNOTWEED REMOVAL AREA
- KNOTWEED
- CLEAR & GRUB RIPRAP REMOVAL AREA

OF TREES REMOVED

<math>< 24''</math>	374
$12'' - 24''$	29
> 24''	8

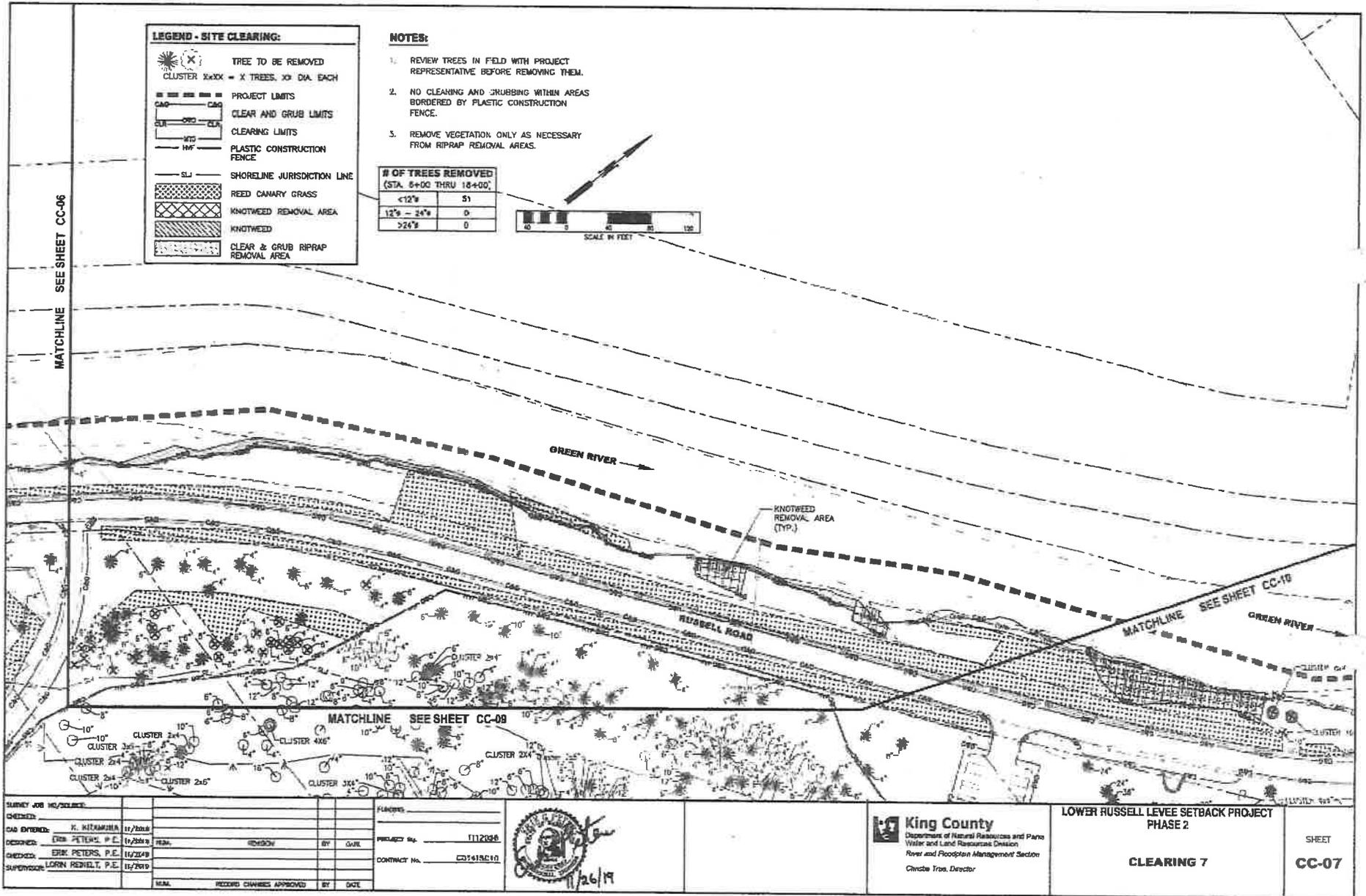
- NOTES:**
- REVIEW TREES IN FIELD WITH PROJECT REPRESENTATIVE BEFORE REMOVING THEM.
 - NO CLEARING AND GRUBBING WITHIN AREAS BORDERED BY PLASTIC CONSTRUCTION FENCE.
 - REMOVE VEGETATION ONLY AS NECESSARY FROM RIPRAP REMOVAL AREAS.

SURVEY JOB NO./SCALE:		PLANNING:	
CHECKED:			
CAD ENTERED:	K. KITAMURA 11/2019	PROJECT No.	1112058
DRAWN:	ERIK PETERS, P.E. 11/2019	CONTRACT No.	CO1415C20
CHECKED:	ERIK PETERS, P.E. 11/2019		
SUPERVISOR:	LORIN REINHILT, P.E. 11/2019		
DATE:		RECORD CHANGES APPROVED BY:	DATE:



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
CLEARING 6
 SHEET
CC-06



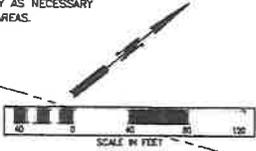
LEGEND - SITE CLEARING:

- TREE TO BE REMOVED
CLUSTER 3x3x3 = X TREES, 30" DIA. EACH
- PROJECT LIMITS
- CLEAR AND GRUB LIMITS
- CLEARING LIMITS
- PLASTIC CONSTRUCTION FENCE
- SHORELINE JURISDICTION LINE
- REED CANARY GRASS
- KNOTWEED REMOVAL AREA
- KNOTWEED
- CLEAR & GRUB RIPRAP REMOVAL AREA

- NOTES:**
- REVIEW TREES IN FIELD WITH PROJECT REPRESENTATIVE BEFORE REMOVING THEM.
 - NO CLEARING AND GRUBBING WITHIN AREAS BORDERED BY PLASTIC CONSTRUCTION FENCE.
 - REMOVE VEGETATION ONLY AS NECESSARY FROM RIPRAP REMOVAL AREAS.

OF TREES REMOVED (STA. 5+00 THRU 16+00)

<12"	51
12" - 24"	0
>24"	0



<p>STAFF JOB NO./SCALE:</p> <p>CHECKED: K. HITAMURA 11/20/19</p> <p>DWG. DESIGNED: ERIC PETERS, P.E. 11/20/19</p> <p>CHECKED: ERIC PETERS, P.E. 11/20/19</p> <p>SUPERVISOR: LORIN REINHILT, P.E. 11/20/19</p>	<p>REVISIONS:</p> <table border="1"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DESCRIPTION	BY	DATE				
NO.	DESCRIPTION	BY	DATE						

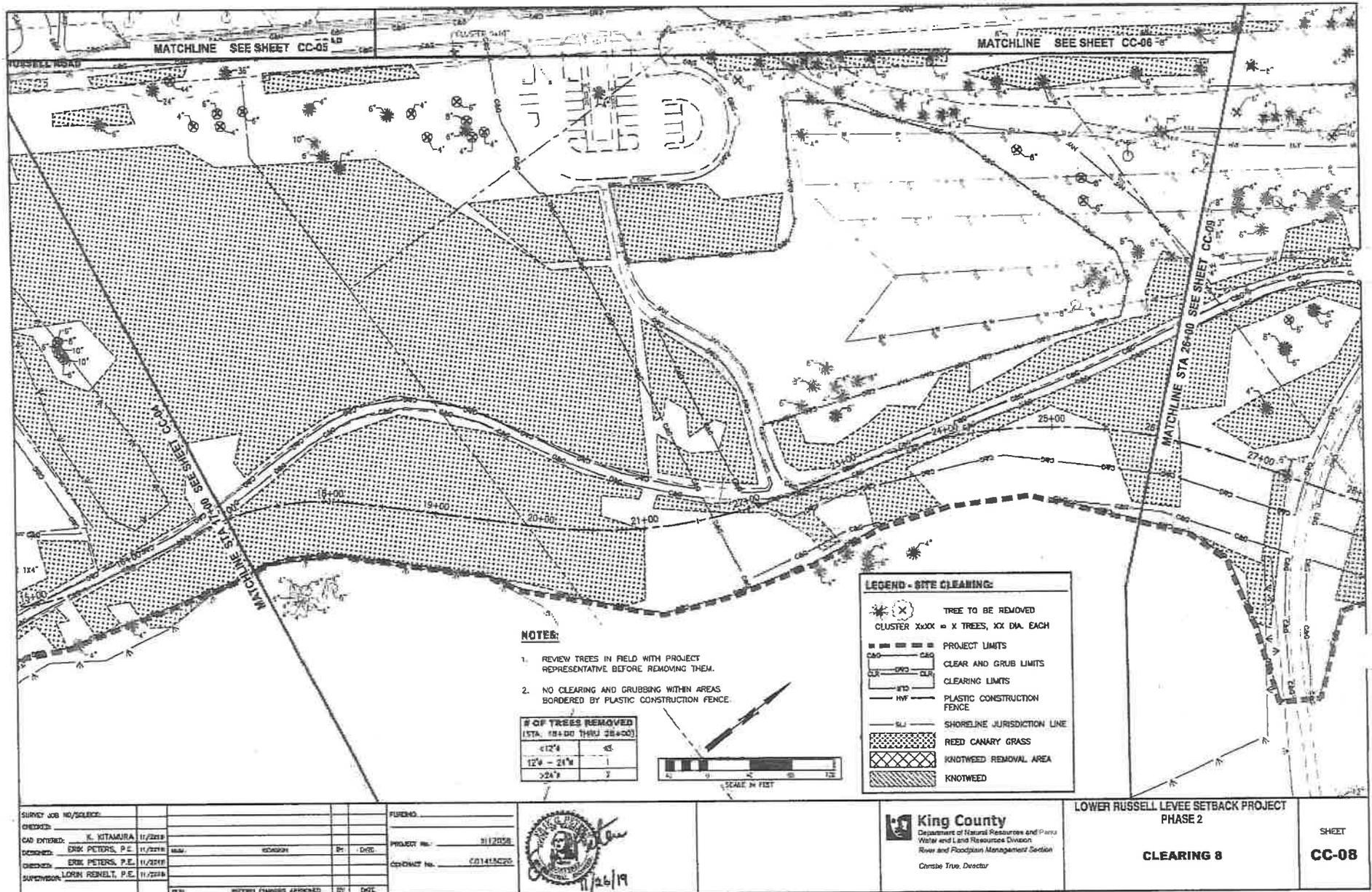
<p>PLANNING:</p> <p>PROJECT No. 1712034</p> <p>CONTRACT No. C01415C10</p>	
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King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christo Tron, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
CLEARING 7

SHEET
CC-07



- NOTES:**
1. REVIEW TREES IN FIELD WITH PROJECT REPRESENTATIVE BEFORE REMOVING THEM.
 2. NO CLEARING AND GRUBBING WITHIN AREAS BORDERED BY PLASTIC CONSTRUCTION FENCE.

# OF TREES REMOVED (STA. 18+00 THRU 28+00)	
<12"	45
12" - 24"	1
>24"	3

LEGEND - SITE CLEARING:

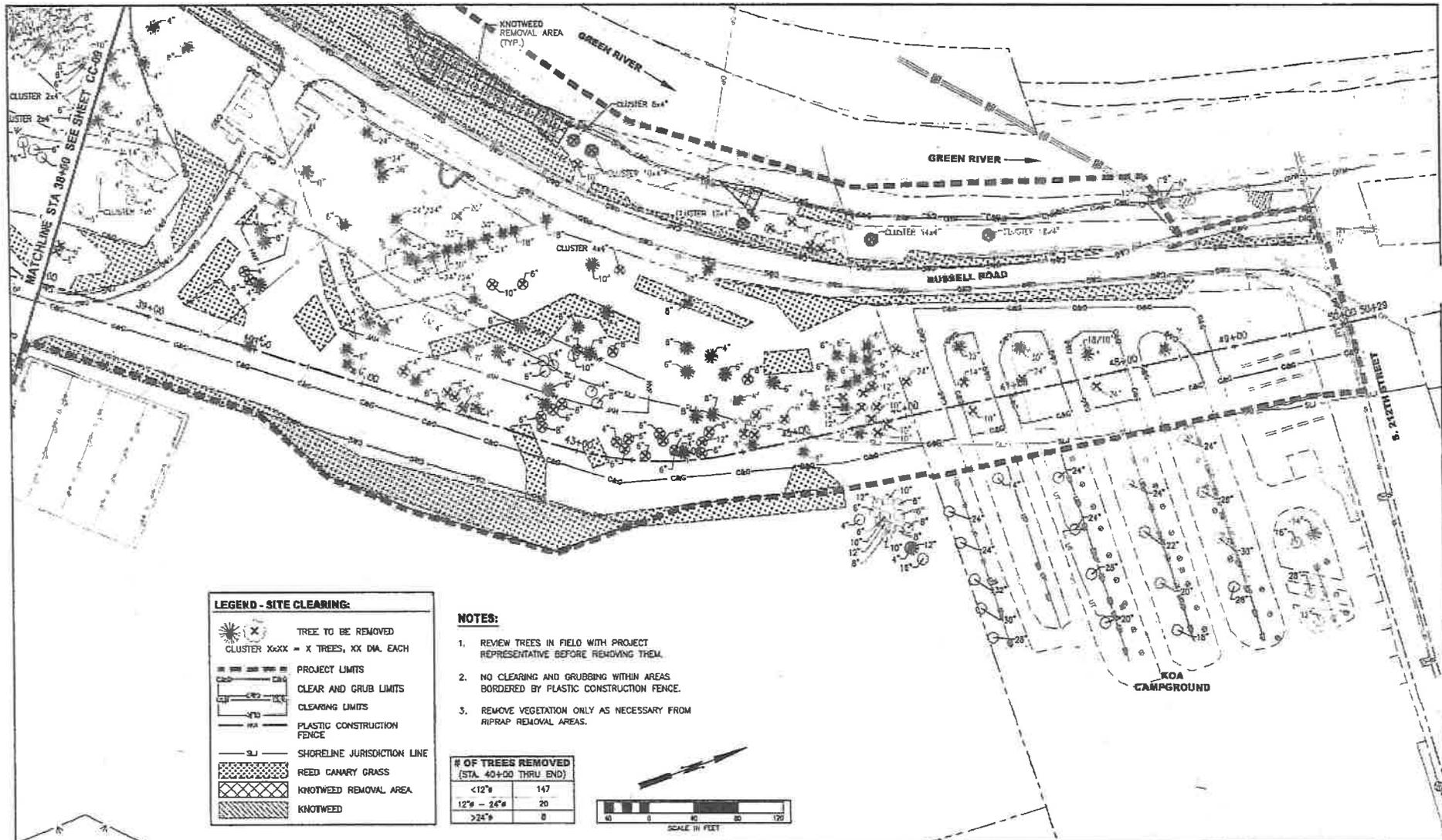
- TREE TO BE REMOVED
- CLUSTER XXXX = X TREES, XX DIA. EACH
- PROJECT LIMITS
- CLEAR AND GRUB LIMITS
- CLEARING LIMITS
- PLASTIC CONSTRUCTION FENCE
- SHORELINE JURISDICTION LINE
- REED CANARY GRASS
- KNOTWEED REMOVAL AREA
- KNOTWEED

SURVEY JOB NO./SCALE: CHECKED: K. YITAMURA 11/2019 CAD ENTERED: ERIC PETERS, P.E. 11/2019 DESIGNED: ERIC PETERS, P.E. 11/2019 CHECKED: ERIC PETERS, P.E. 11/2019 SUPERVISOR: LORIN REBELT, P.E. 11/2019	FILE NO.: PROJECT NO.: 317258 CONTRACT NO.: C01413025
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King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Trice, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
CLEARING 8
 SHEET
CC-08



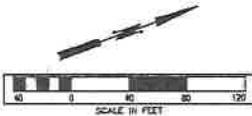
LEGEND - SITE CLEARING:

	TREE TO BE REMOVED
CLUSTER Xxxx = X TREES, XX DIA. EACH	
	PROJECT LIMITS
	CLEAR AND GRUB LIMITS
	CLEARING LIMITS
	PLASTIC CONSTRUCTION FENCE
	SHORELINE JURISDICTION LINE
	REED CANARY GRASS
	KNOTWEED REMOVAL AREA
	KNOTWEED

- NOTES:**
1. REVIEW TREES IN FIELD WITH PROJECT REPRESENTATIVE BEFORE REMOVING THEM.
 2. NO CLEARING AND GRUBBING WITHIN AREAS BORDERED BY PLASTIC CONSTRUCTION FENCE.
 3. REMOVE VEGETATION ONLY AS NECESSARY FROM RIPRAP REMOVAL AREAS.

OF TREES REMOVED (STA. 43+00 THRU END)

<12'φ	147
12'φ - 24'φ	20
>24'φ	0



SURVEY JOB NO./SOURCE:		FUNDING:	
CAD DTD/CHKD:	K. KITAJIURA 11/2019	PROJECT No.	1112058
DESIGNED:	ERIK PETERS, P.E. 11/2019	CONTRACT No.	CO141SC20
CHECKED:	ERIK PETERS, P.E. 11/2019		
SUPERVISOR:	LORN REINHOLT, P.E. 11/2019		
MAIL:	RECORD CHANGES APPROVED BY DATE		

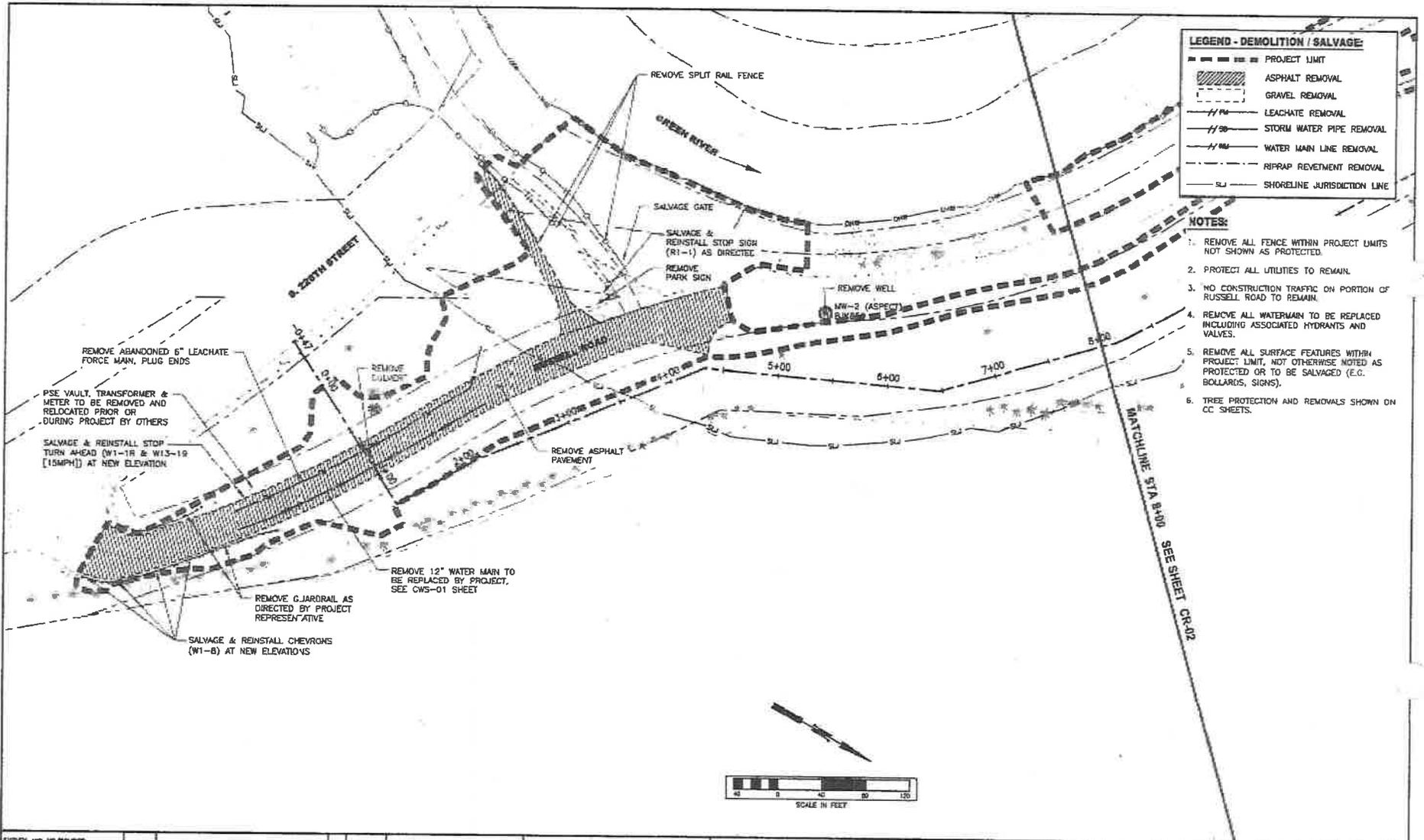


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chrobo True, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 CLEARING 10**

SHEET
CC-10

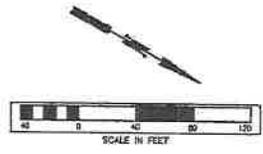
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LEGEND - DEMOLITION / SALVAGE

--- PROJECT LIMIT
▨ ASPHALT REMOVAL
▤ GRAVEL REMOVAL
--- LEACHATE REMOVAL
--- STORM WATER PIPE REMOVAL
--- WATER MAIN LINE REMOVAL
--- RIPRAP REVETMENT REMOVAL
--- SHORELINE JURISDICTION LINE

- NOTES:**
1. REMOVE ALL FENCE WITHIN PROJECT LIMITS NOT SHOWN AS PROTECTED.
 2. PROTECT ALL UTILITIES TO REMAIN.
 3. NO CONSTRUCTION TRAFFIC ON PORTION OF RUSSELL ROAD TO REMAIN.
 4. REMOVE ALL WATERMAIN TO BE REPLACED INCLUDING ASSOCIATED HYDRANTS AND VALVES.
 5. REMOVE ALL SURFACE FEATURES WITHIN PROJECT LIMIT, NOT OTHERWISE NOTED AS PROTECTED OR TO BE SALVAGED (E.G. BOLLARDS, SIGNS).
 6. TREE PROTECTION AND REMOVALS SHOWN ON CC SHEETS.



SURVEY JOB NO./SOURCE		PURPOSE	
CHECKED:		PROJECT NO.	1112056
CAD DATE:	K. NITAJARA 11/2019	CORRECTY NO.	C01415C22
DESIGNED:	ERIK PETERS, P.E. 11/2019		
CHECKED:	ERIK PETERS, P.E. 11/2019		
SUPERVISOR:	LORRI REINELT, P.E. 11/2019		
REAL	RECORD CHANGES APPROVED BY DATE		

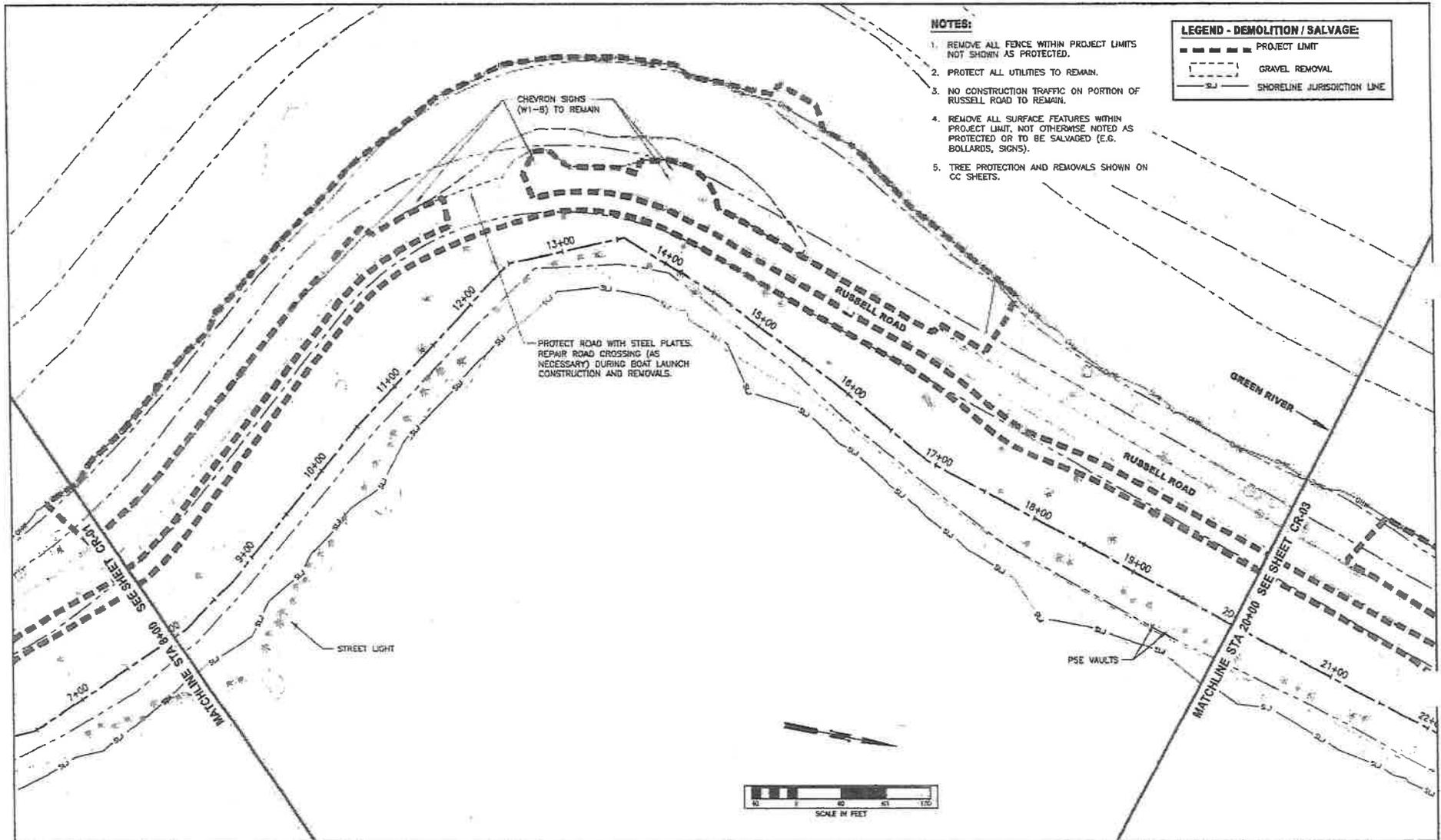


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie True, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2**

REMOVALS 1

SHEET
CR-01



NOTES:

1. REMOVE ALL FENCE WITHIN PROJECT LIMITS NOT SHOWN AS PROTECTED.
2. PROTECT ALL UTILITIES TO REMAIN.
3. NO CONSTRUCTION TRAFFIC ON PORTION OF RUSSELL ROAD TO REMAIN.
4. REMOVE ALL SURFACE FEATURES WITHIN PROJECT LIMIT, NOT OTHERWISE NOTED AS PROTECTED OR TO BE SALVAGED (E.G. BOLLARDS, SIGNS).
5. TREE PROTECTION AND REMOVALS SHOWN ON CC SHEETS.

LEGEND - DEMOLITION / SALVAGE:

- PROJECT LIMIT
- GRAVEL REMOVAL
- SHORELINE JURISDICTION LINE

CHEVRON SIGNS (W1-S) TO REMAIN

PROTECT ROAD WITH STEEL PLATES. REPAIR ROAD CROSSING (AS NECESSARY) DURING BOAT LAUNCH CONSTRUCTION AND REMOVALS.

STREET LIGHT

PSE VAULTS



SURVEY JOB NO./SUBJECT:		REVISION:	
CHECKED:		BY:	
DWG. DESIGNED:	K. KITAMURA 11/2018	PROJECT No.:	1112058
REMOVED:	ERIK PETERS, P.E. 11/2019	CONTRACT No.:	CO1415C20
CHECKED:	ERIK PETERS, P.E. 11/2019		
SUPERVISOR:	LORIN REINOLT, P.E. 11/2019		
DATE:		DATE:	
RECORD CHANGES APPROVED:		BY:	

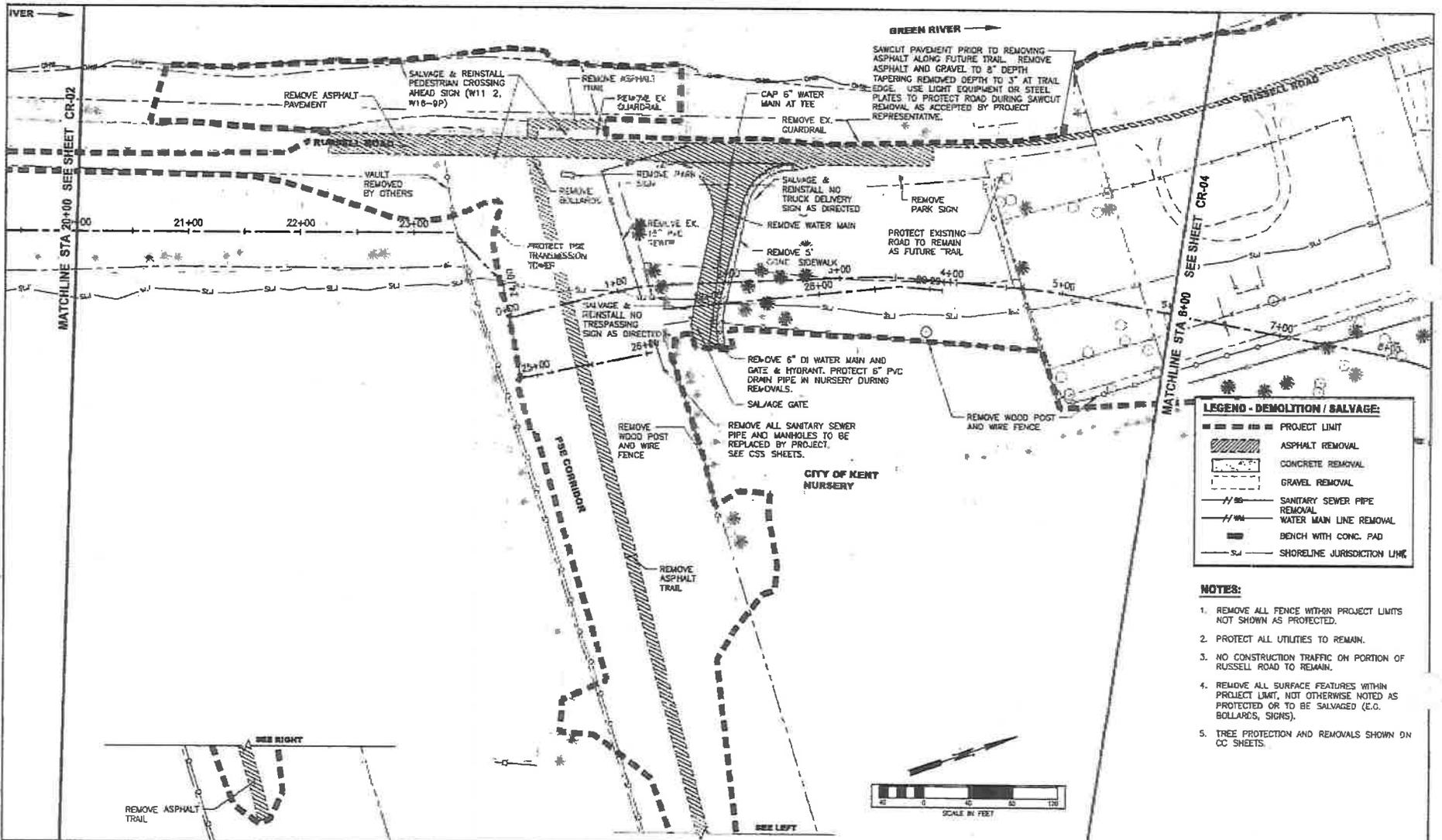


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christa Tru, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2

REMOVALS 2

SHEET
CR-02

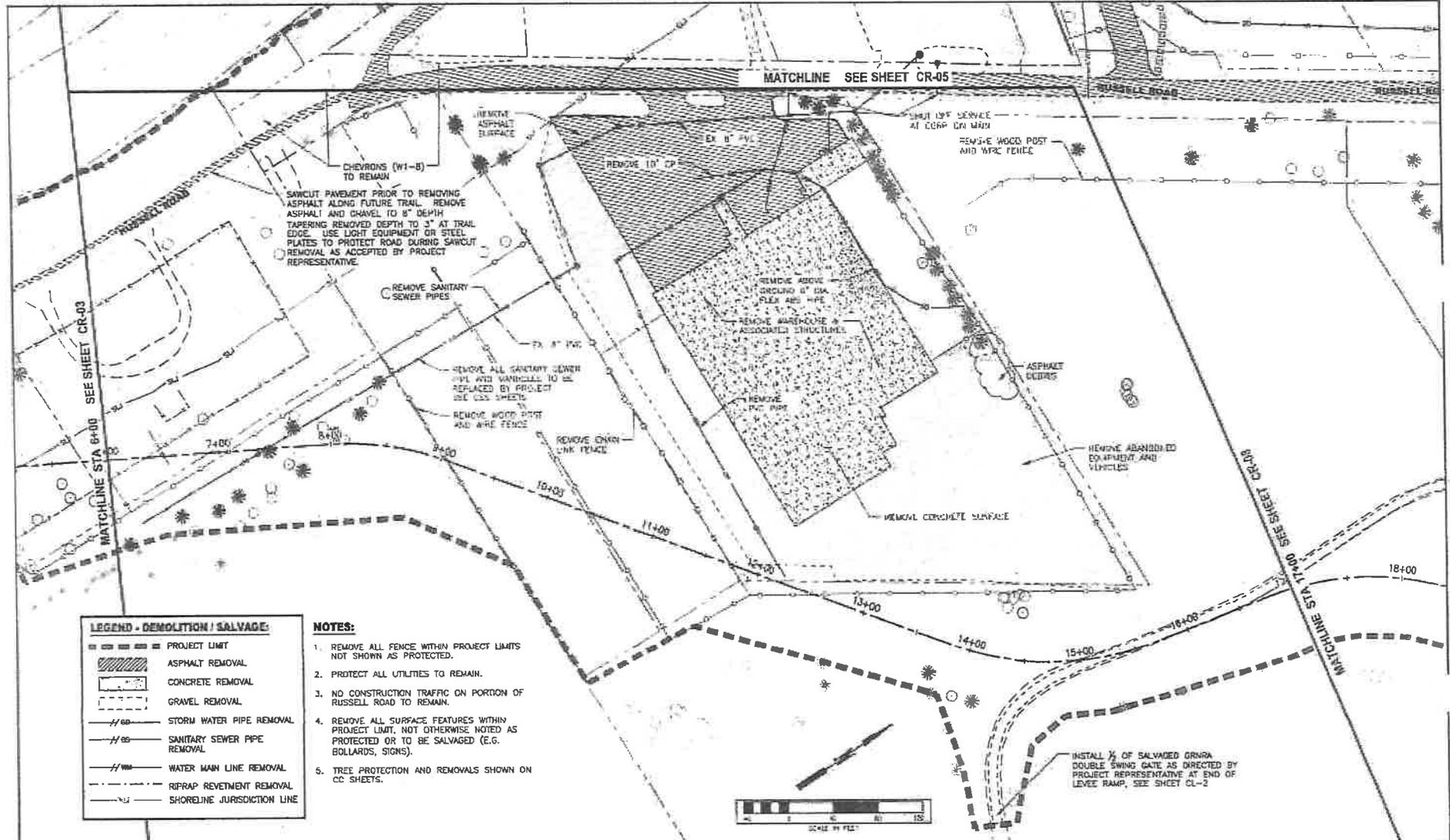


PROJECT JOB NO./SUBJECT:			
CREATED:			
DATE ENTERED:	K. KITAHARA	11/2019	
DESIGNED:	ERIK PETERS, P.E.	11/2019	
CHECKED:	ERIK PETERS, P.E.	11/2019	
SUPERVISOR:	LORIN FENELT, P.E.	11/2019	
REVISIONS:			
REVISION:	RECORD CHANGED APPROVAL	BY	DATE

PLANS:	
PROJECT NO.:	1112058
CONTRACT NO.:	CO1416C20



LOWER RUSSELL LEVEE SETBACK PROJECT PHASE 2	SHEET CR-03
REMOVALS 3	



LEGEND - DEMOLITION / SALVAGE:

	PROJECT LIMIT
	ASPHALT REMOVAL
	CONCRETE REMOVAL
	GRAVEL REMOVAL
	STORM WATER PIPE REMOVAL
	SANITARY SEWER PIPE REMOVAL
	WATER MAIN LINE REMOVAL
	RIPRAP RETENTION REMOVAL
	SHORELINE JURISDICTION LINE

- NOTES:**
1. REMOVE ALL FENCE WITHIN PROJECT LIMITS NOT SHOWN AS PROTECTED.
 2. PROTECT ALL UTILITIES TO REMAIN.
 3. NO CONSTRUCTION TRAFFIC ON PORTION OF RUSSELL ROAD TO REMAIN.
 4. REMOVE ALL SURFACE FEATURES WITHIN PROJECT LIMIT, NOT OTHERWISE NOTED AS PROTECTED OR TO BE SALVAGED (E.G. BOLLARDS, SIGNS).
 5. TREE PROTECTION AND REMOVALS SHOWN ON CC SHEETS.

INSTALL 1/2 OF SALVAGED GRNRA DOUBLE SWING GATE AS DIRECTED BY PROJECT REPRESENTATIVE AT END OF LEVEE RAMP, SEE SHEET CR-2

SURVEY JOB NO./SOURCE:		PROJECT:	
CHECKED:	K. KITAJIMA 11/2018	PROJECT NO.:	112002E
CAD ENDED:		DRAWING NO.:	000410202
DESIGNED:	EPK PETERS, P.E. 11/2018		
CHECKED:	EPK PETERS, P.E. 11/2018		
SUPERVISOR:	LORIN REYNOLT, P.E. 11/2018		
	RECORD CHANGES APPROVED BY DATE:		

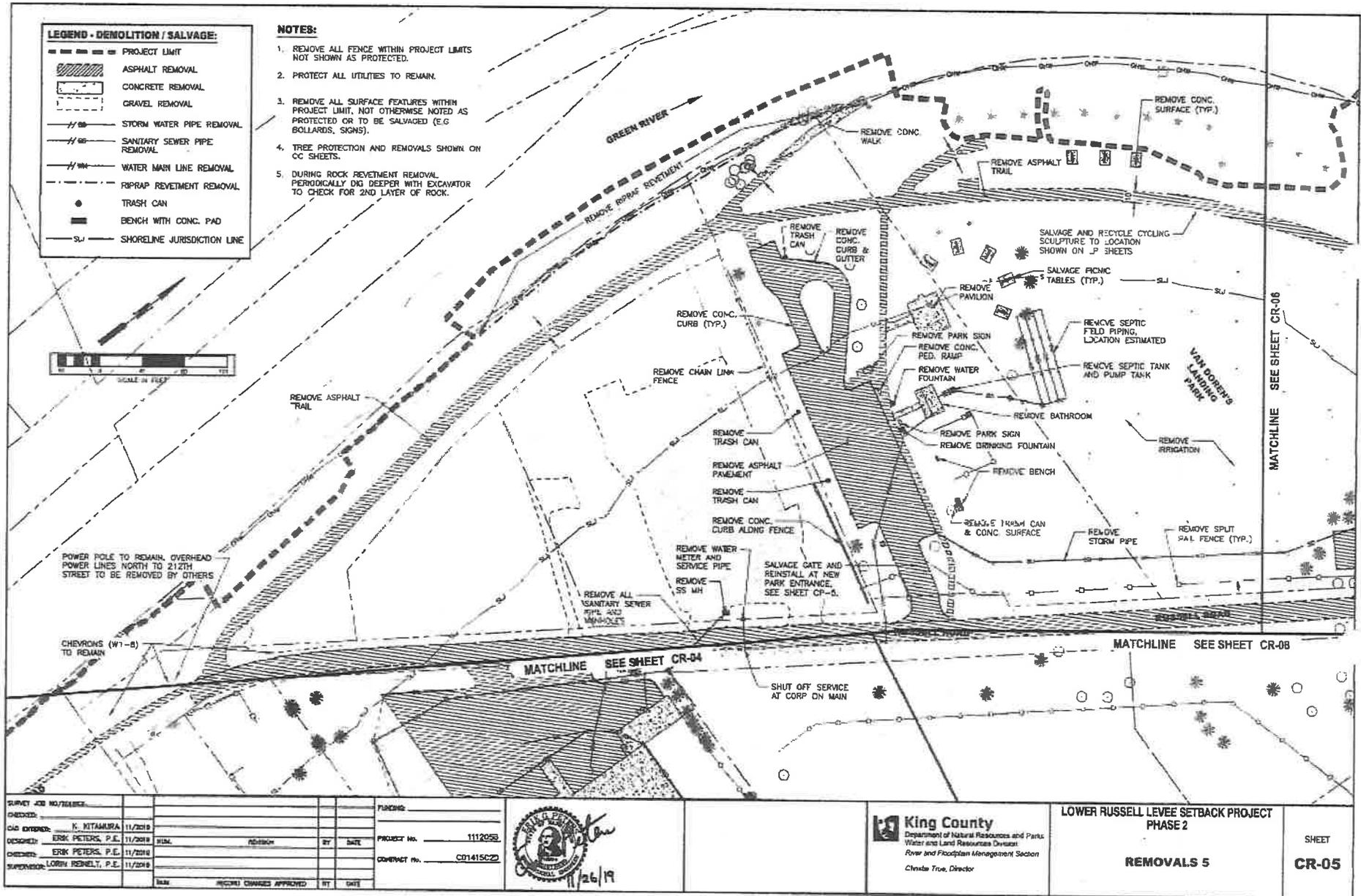


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chris True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
REMOVALS 4

SHEET
CR-04

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LEGEND - DEMOLITION / SALVAGE:

	PROJECT LIMIT
	ASPHALT REMOVAL
	CONCRETE REMOVAL
	GRAVEL REMOVAL
	STORM WATER PIPE REMOVAL
	SANITARY SEWER PIPE REMOVAL
	WATER MAIN LINE REMOVAL
	RIPRAP REVETMENT REMOVAL
	TRASH CAN
	BENCH WITH CONC. PAD
	SHORELINE JURISDICTION LINE

- NOTES:**
1. REMOVE ALL FENCE WITHIN PROJECT LIMITS NOT SHOWN AS PROTECTED.
 2. PROTECT ALL UTILITIES TO REMAIN.
 3. REMOVE ALL SURFACE FEATURES WITHIN PROJECT LIMIT, NOT OTHERWISE NOTED AS PROTECTED OR TO BE SALVAGED (E.G. BOLLARDS, SIGNS).
 4. TREE PROTECTION AND REMOVALS SHOWN ON CC SHEETS.
 5. DURING ROCK REVETMENT REMOVAL, PERIODICALLY DIG DEEPER WITH EXCAVATOR TO CHECK FOR 2ND LAYER OF ROCK.

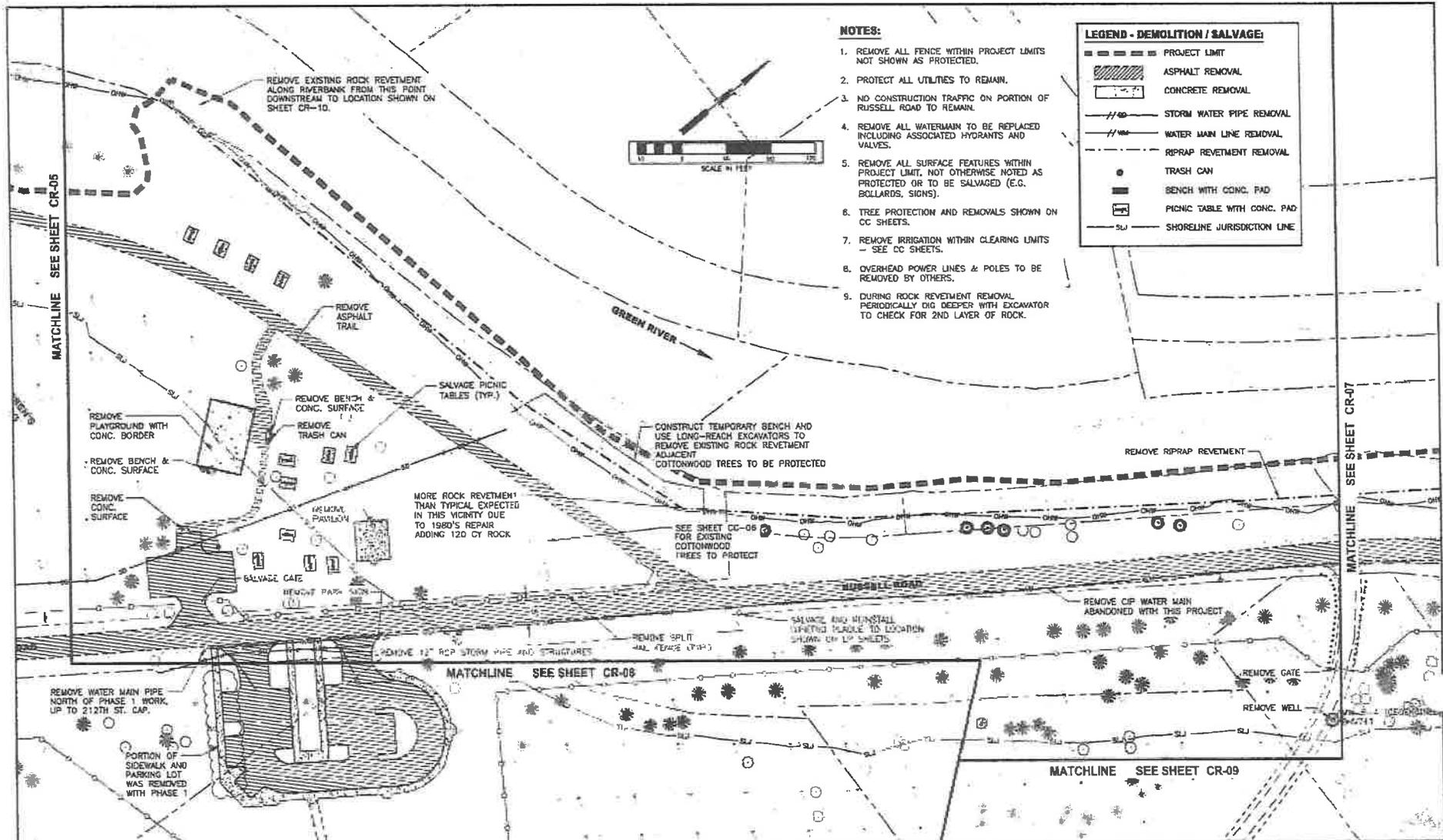
SURVEY JOB NO./REVISION		FUNDING	
CHECKED:			
CAD EXTENDER:	K. KITAHARA 11/2019	PROJECT No.	1112058
DESIGNED:	ERIK PETERS, P.E. 11/2019	CONTRACT No.	CD1415C22
CHECKED:	ERIK PETERS, P.E. 11/2019		
SUPERVISOR:	LORIN REBELT, P.E. 11/2019		
DATE	RECORD CHANGES APPROVED	BY	DATE

11/26/19	

King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chanda True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT PHASE 2		SHEET CR-05
REMOVALS 5		

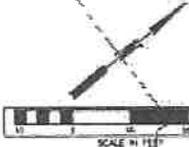
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- NOTES:**
1. REMOVE ALL FENCE WITHIN PROJECT LIMITS NOT SHOWN AS PROTECTED.
 2. PROTECT ALL UTILITIES TO REMAIN.
 3. NO CONSTRUCTION TRAFFIC ON PORTION OF RUSSELL ROAD TO REMAIN.
 4. REMOVE ALL WATERMAIN TO BE REPLACED INCLUDING ASSOCIATED HYDRANTS AND VALVES.
 5. REMOVE ALL SURFACE FEATURES WITHIN PROJECT LIMIT, NOT OTHERWISE NOTED AS PROTECTED OR TO BE SALVAGED (E.G. BOLLARDS, SIGNS).
 6. TREE PROTECTION AND REMOVALS SHOWN ON CC SHEETS.
 7. REMOVE IRRIGATION WITHIN CLEARING LIMITS - SEE CC SHEETS.
 8. OVERHEAD POWER LINES & POLES TO BE REMOVED BY OTHERS.
 9. DURING ROCK REVETMENT REMOVAL, PERIODICALLY DIG DEEPER WITH EXCAVATOR TO CHECK FOR 2ND LAYER OF ROCK.

LEGEND - DEMOLITION / SALVAGE

- PROJECT LIMIT
- /// ASPHALT REMOVAL
- CONCRETE REMOVAL
- STORM WATER PIPE REMOVAL
- WATER MAIN LINE REMOVAL
- RIPRAP REVETMENT REMOVAL
- TRASH CAN
- BENCH WITH CONC. PAD
- PICNIC TABLE WITH CONC. PAD
- SLU SHORELINE JURISDICTION LINE



SURVEY JOB NO./DATE:		DRAWING	
CHECKED:		PROJECT No.	112025
DWG. DESIGNED:	H. KITAHARA 11/2018	CONTRACT No.	CR1415020
DESIGNED:	ERIK PETERS, P.E. 11/2018		
CHECKED:	ERIK PETERS, P.E. 11/2018		
SUPERVISOR:	LORIN ROSEHILT, P.E. 11/2018		
SCALE:	UNLESS OTHERWISE APPROVED	BY:	DATE:

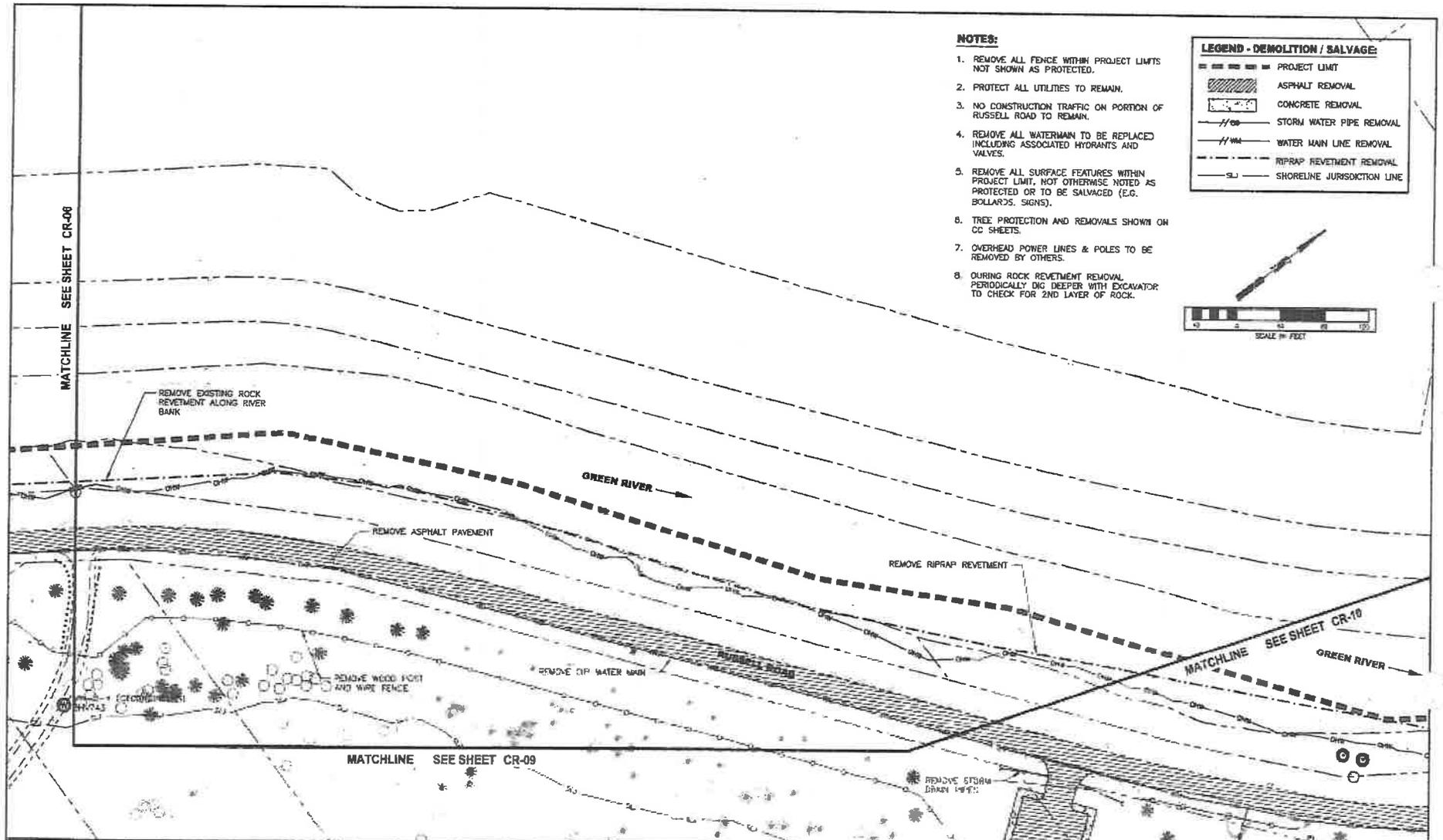


King County
 Department of Public and Recreational Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Central Fee Center

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2**

REMOVALS 6

SHEET
CR-06



NOTES:

1. REMOVE ALL FENCE WITHIN PROJECT LIMITS NOT SHOWN AS PROTECTED.
2. PROTECT ALL UTILITIES TO REMAIN.
3. NO CONSTRUCTION TRAFFIC ON PORTION OF RUSSELL ROAD TO REMAIN.
4. REMOVE ALL WATERMAIN TO BE REPLACED INCLUDING ASSOCIATED HYDRANTS AND VALVES.
5. REMOVE ALL SURFACE FEATURES WITHIN PROJECT LIMIT, NOT OTHERWISE NOTED AS PROTECTED OR TO BE SALVAGED (E.G. BOLLARDS, SIGNS).
6. TREE PROTECTION AND REMOVALS SHOWN ON CC SHEETS.
7. OVERHEAD POWER LINES & POLES TO BE REMOVED BY OTHERS.
8. DURING ROCK REVETMENT REMOVAL PERIODICALLY DIG DEEPER WITH EXCAVATOR TO CHECK FOR 2ND LAYER OF ROCK.

LEGEND - DEMOLITION / SALVAGE:

	PROJECT LIMIT
	ASPHALT REMOVAL
	CONCRETE REMOVAL
	STORM WATER PIPE REMOVAL
	WATER MAIN LINE REMOVAL
	RIPRAP REVETMENT REMOVAL
	SHORELINE JURISDICTION LINE



SURVEY JOB NO./CLIENT:		FORMING:	
CAD DRAWN BY:	K. KITAMAJIRA 11/2018	PROJECT No.:	1122028
DESIGNED BY:	ERIK PETERS, P.E. 11/2018	CONTRACT No.:	00141AC28
CHECKED BY:	ERIK PETERS, P.E. 11/2019		
SUPERVISOR:	LOREN REINELT, P.E. 11/2019		
	RECORD CHANGES APPROVED BY DATE		

MATCHLINE SEE SHEET CR-08

MATCHLINE SEE SHEET CR-09



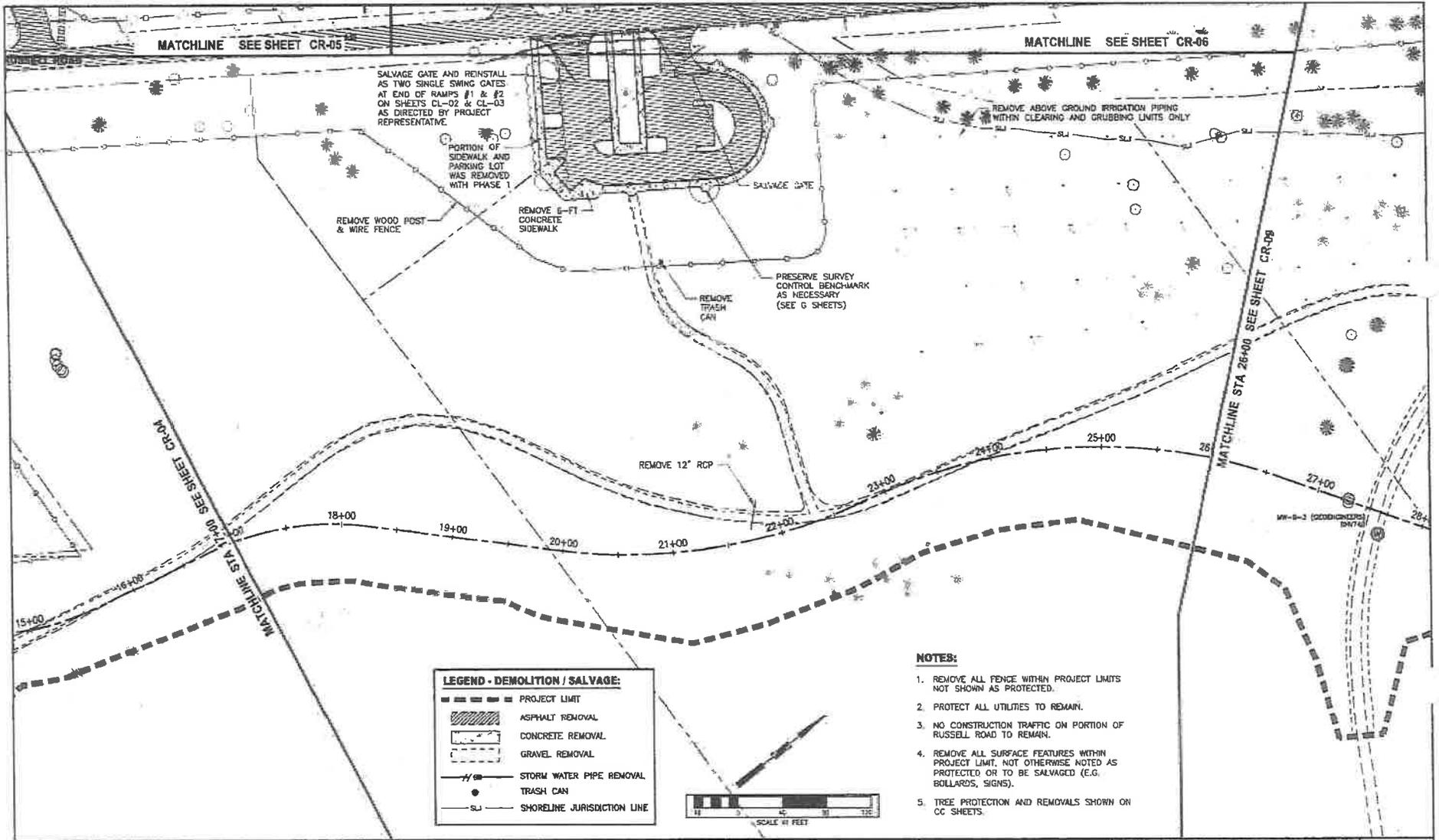
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christine Truss, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2

REMOVALS 7

SHEET
CR-07

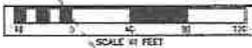
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LEGEND - DEMOLITION / SALVAGE:

- PROJECT LIMIT
- ASPHALT REMOVAL
- CONCRETE REMOVAL
- GRAVEL REMOVAL
- STORM WATER PIPE REMOVAL
- TRASH CAN
- SHORELINE JURISDICTION LINE

- NOTES:**
1. REMOVE ALL FENCE WITHIN PROJECT LIMITS NOT SHOWN AS PROTECTED.
 2. PROTECT ALL UTILITIES TO REMAIN.
 3. NO CONSTRUCTION TRAFFIC ON PORTION OF RUSSELL ROAD TO REMAIN.
 4. REMOVE ALL SURFACE FEATURES WITHIN PROJECT LIMIT, NOT OTHERWISE NOTED AS PROTECTED OR TO BE SALVAGED (E.G. BOLLARDS, SIGNS).
 5. TREE PROTECTION AND REMOVALS SHOWN ON CC SHEETS.



SURVEY JOB NO./SOURCE:					
CHECKED:	K. KITAJIMA	11/2019			
CAD BY/DATE:	ERIK PETERS, P.E.	11/2019	REVISION	BY	DATE
CHECKED:	ERIK PETERS, P.E.	11/2019			
SUPERVISOR:	LORIN REHILL, P.E.	11/2019			
FROM	RECORD CHANGES APPROVED	BY	DATE		

PROJECT No.	1112056
CONTRACT No.	C01415220



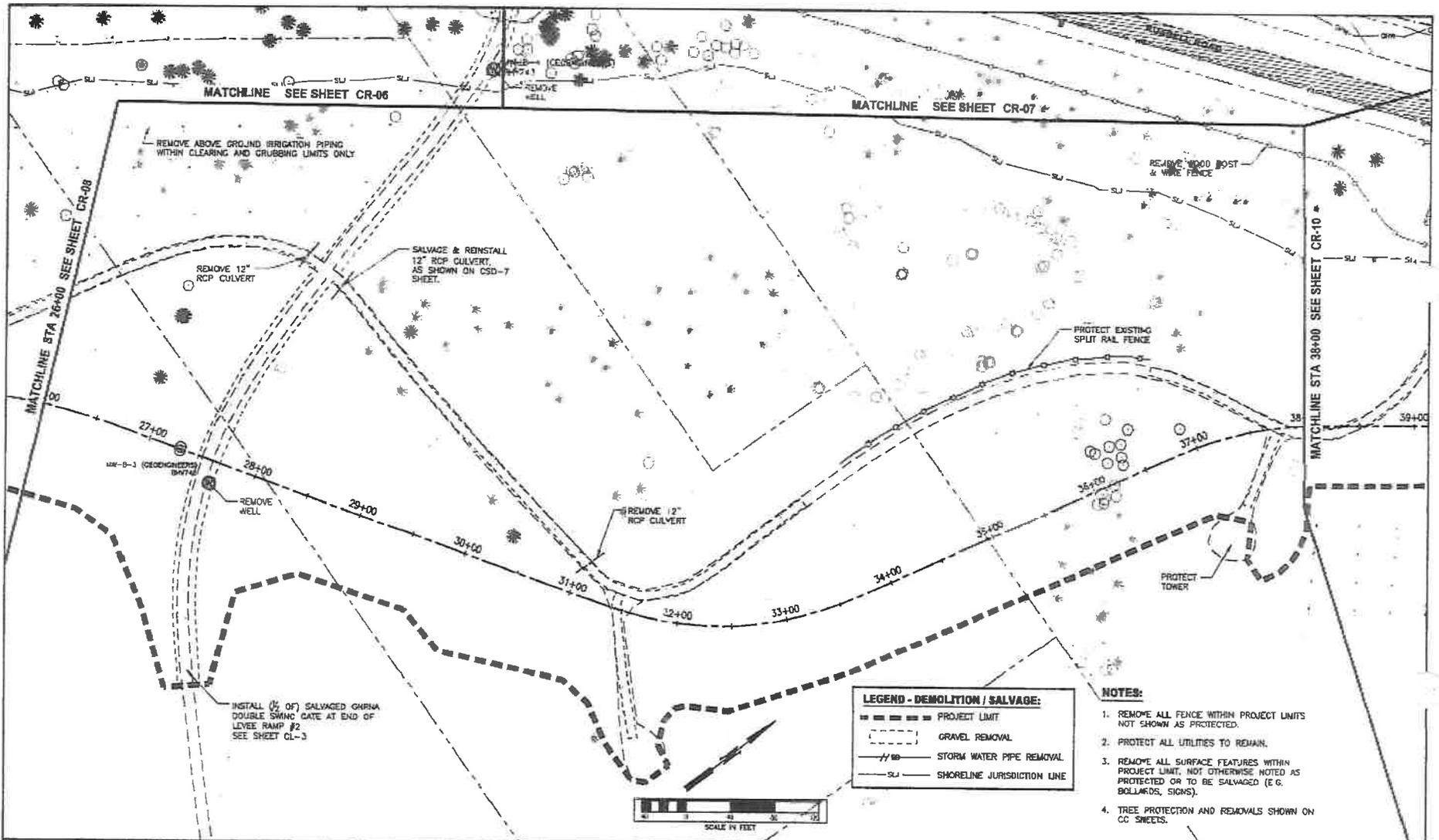
King County
 Department of Natural Resources and Parks
 Water and Land Resource Division
 River and Floodplain Management Section
 Chitraa Trive, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2**

REMOVALS 8

SHEET
CR-08

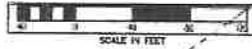
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LEGEND - DEMOLITION / SALVAGE:

	PROJECT LIMIT
	GRAVEL REMOVAL
	STORM WATER PIPE REMOVAL
	SHORELINE JURISDICTION LINE

- NOTES:**
1. REMOVE ALL FENCE WITHIN PROJECT LIMITS NOT SHOWN AS PROTECTED.
 2. PROTECT ALL UTILITIES TO REMAIN.
 3. REMOVE ALL SURFACE FEATURES WITHIN PROJECT LIMIT, NOT OTHERWISE NOTED AS PROTECTED OR TO BE SALVAGED (E.G. BOLLARDS, SIGNS).
 4. TREE PROTECTION AND REMOVALS SHOWN ON CC SHEETS.



SURVEY JOB NO./SOURCE:					
CHECKED:	K. KITAMURA	11/2018			
CAD DWTBND:					
CHECKED:	ERIK PETERS, P.E.	11/2018	PLAN	REVISION	BY DATE
CHECKED:	ERIK PETERS, P.E.	11/2018			
SUPERVISOR:	LORIN ROHNELT, P.E.	11/2018			
PROP.			RECORD CHANGES APPROVED	BY	DATE

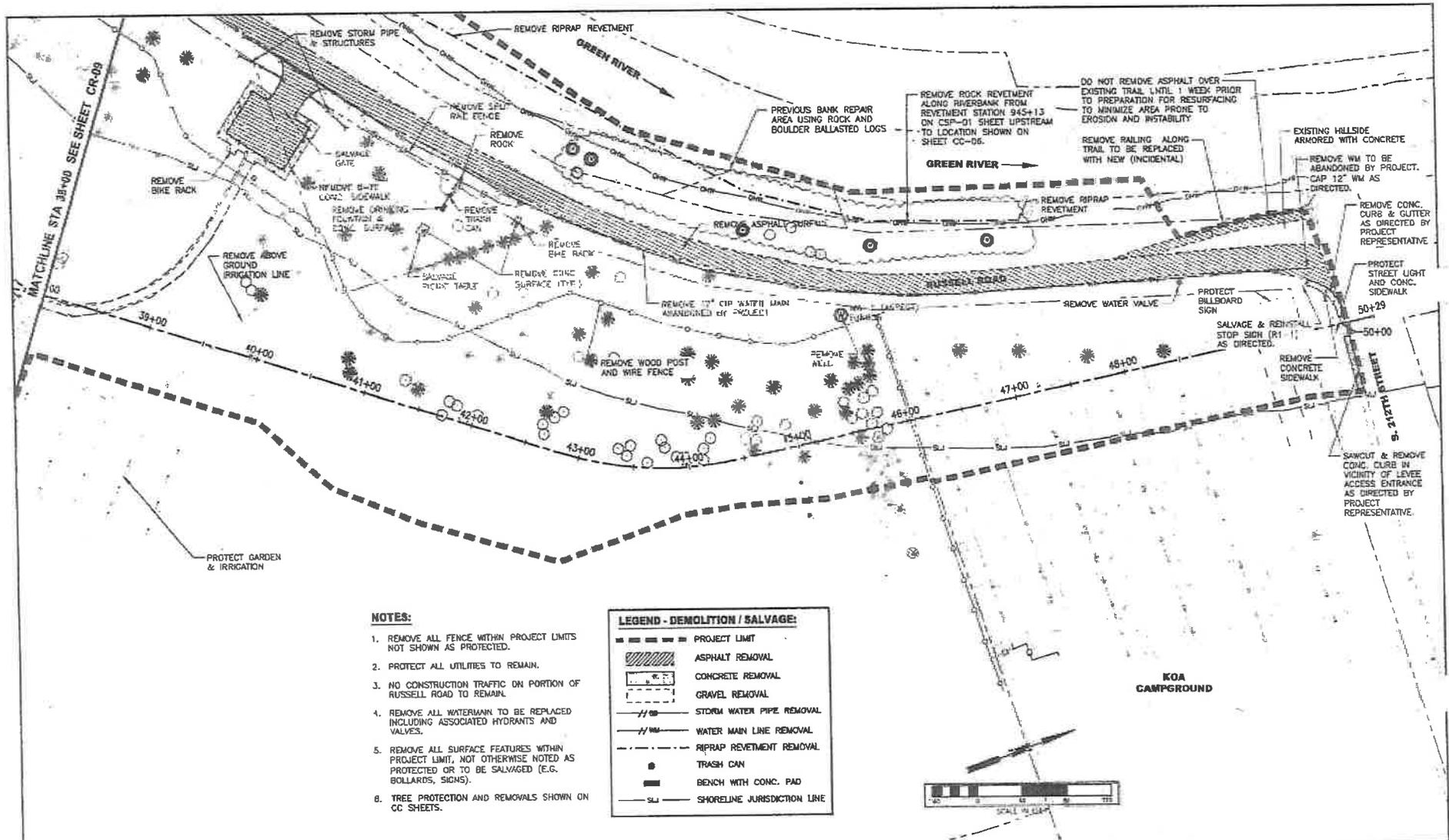
FUNDING:	
PROJECT No.	1112028
CONTRACT No.	CO1419C20



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christer Truse, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2**
REMOVALS 9

SHEET
CR-09

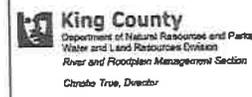


NOTES:

1. REMOVE ALL FENCE WITHIN PROJECT LIMITS NOT SHOWN AS PROTECTED.
2. PROTECT ALL UTILITIES TO REMAIN.
3. NO CONSTRUCTION TRAFFIC ON PORTION OF RUSSELL ROAD TO REMAIN.
4. REMOVE ALL WATERMAIN TO BE REPLACED INCLUDING ASSOCIATED HYDRANTS AND VALVES.
5. REMOVE ALL SURFACE FEATURES WITHIN PROJECT LIMIT, NOT OTHERWISE NOTED AS PROTECTED OR TO BE SALVAGED (E.G. BOLLARDS, SIGNS).
6. TREE PROTECTION AND REMOVALS SHOWN ON CC SHEETS.

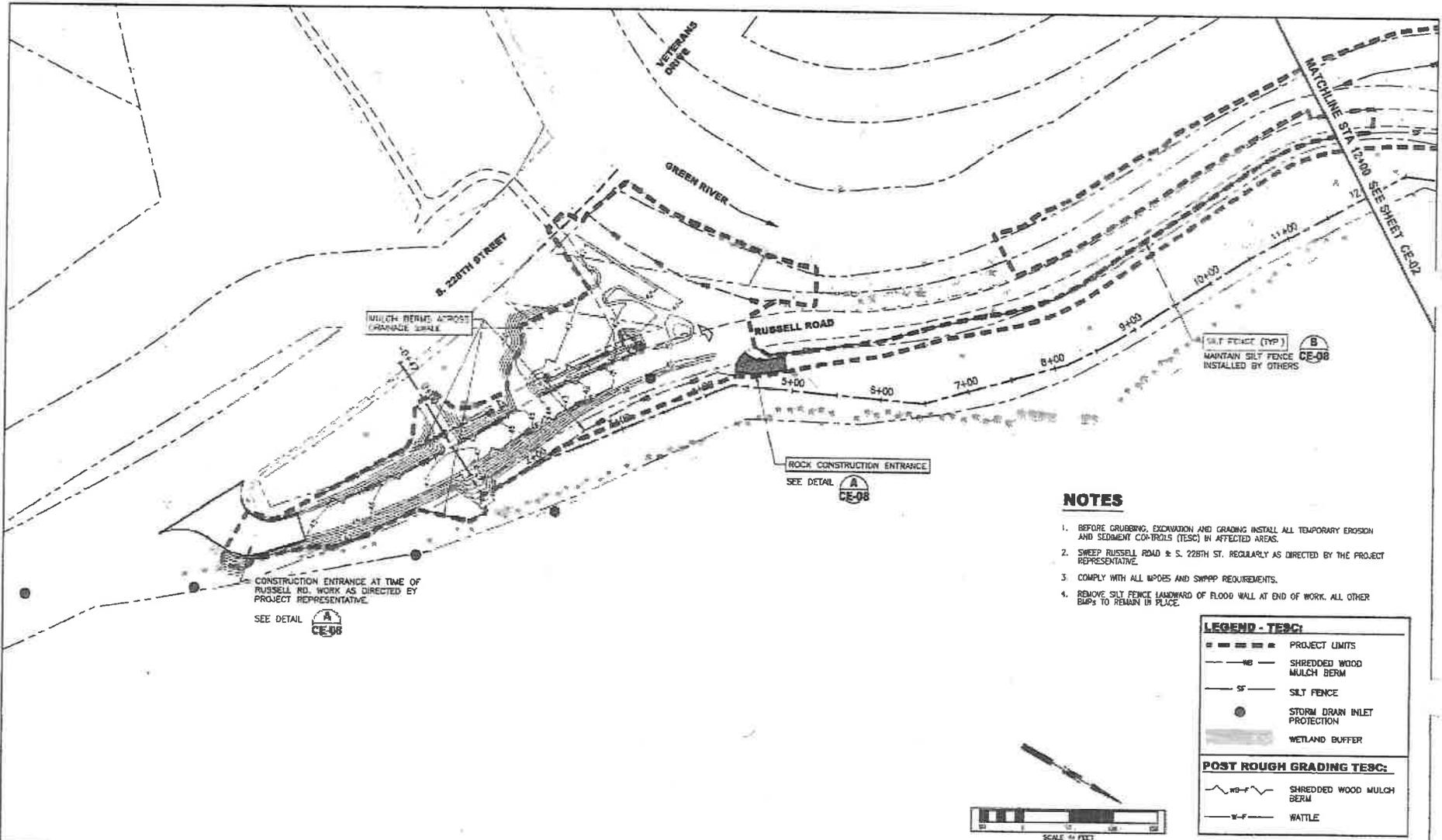
LEGEND - DEMOLITION / SALVAGE:	
	PROJECT LIMIT
	ASPHALT REMOVAL
	CONCRETE REMOVAL
	GRAVEL REMOVAL
	STORM WATER PIPE REMOVAL
	WATER MAIN LINE REMOVAL
	RIPRAP REVETMENT REMOVAL
	TRASH CAN
	BENCH WITH CONC. PAD
	SHORELINE JURISDICTION LINE

SURVEY JOB NO./SCALE:		FUNDING:	
CHECKED:			
DATE ENTERED:	K. KITAMURA 11/2019	PROJECT No.	1112056
DESIGNED:	ERIK PETERS, P.E. 11/2019	CONTRACT No.	CO141502D
CHECKED:	ERIK PETERS, P.E. 11/2019		
SUPERVISOR:	LORIN REINHILT, P.E. 11/2019		
M.A.L.	RECORD CHANGES APPROVED BY DATE		



LOWER RUSSELL LEVEE SETBACK PROJECT PHASE 2		SHEET
REMOVALS 10		CR-10

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NOTES

1. BEFORE GRUBBING, EXCAVATION AND GRADING INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROLS (TESC) IN AFFECTED AREAS.
2. SWEEP RUSSELL ROAD @ S. 228TH ST. REGULARLY AS DIRECTED BY THE PROJECT REPRESENTATIVE.
3. COMPLY WITH ALL BMPs AND SWPPP REQUIREMENTS.
4. REMOVE SILTY FENCE LANDWARD OF FLOOD WALL AT END OF WORK. ALL OTHER BMPs TO REMAIN IN PLACE.

LEGEND - TESC:	
	PROJECT LIMITS
	SHREDDED WOOD MULCH BERM
	SILTY FENCE
	STORM DRAIN INLET PROTECTION
	WETLAND BUFFER
POST ROUGH GRADING TESC:	
	SHREDDED WOOD MULCH BERM
	WATTLE

SURVEY JOB NO./SOURCE:					
CHECKED:	K. KITAMURA	11/2019			
DATE ENTERED:	ERIK PETERS, P.E.	11/2019	REVISION	BY	DATE
CHECKED:	ERIK PETERS, P.E.	11/2019			
CHECKED:	ERIK PETERS, P.E.	11/2019			
SUPERVISOR:	LORIN REINELT, P.E.	11/2019			
SCALE:	RECORD CHANGES APPROVED BY:	DATE:			

PLANNING _____
 PROJECT No. 1112056
 CONTRACT No. C0145020

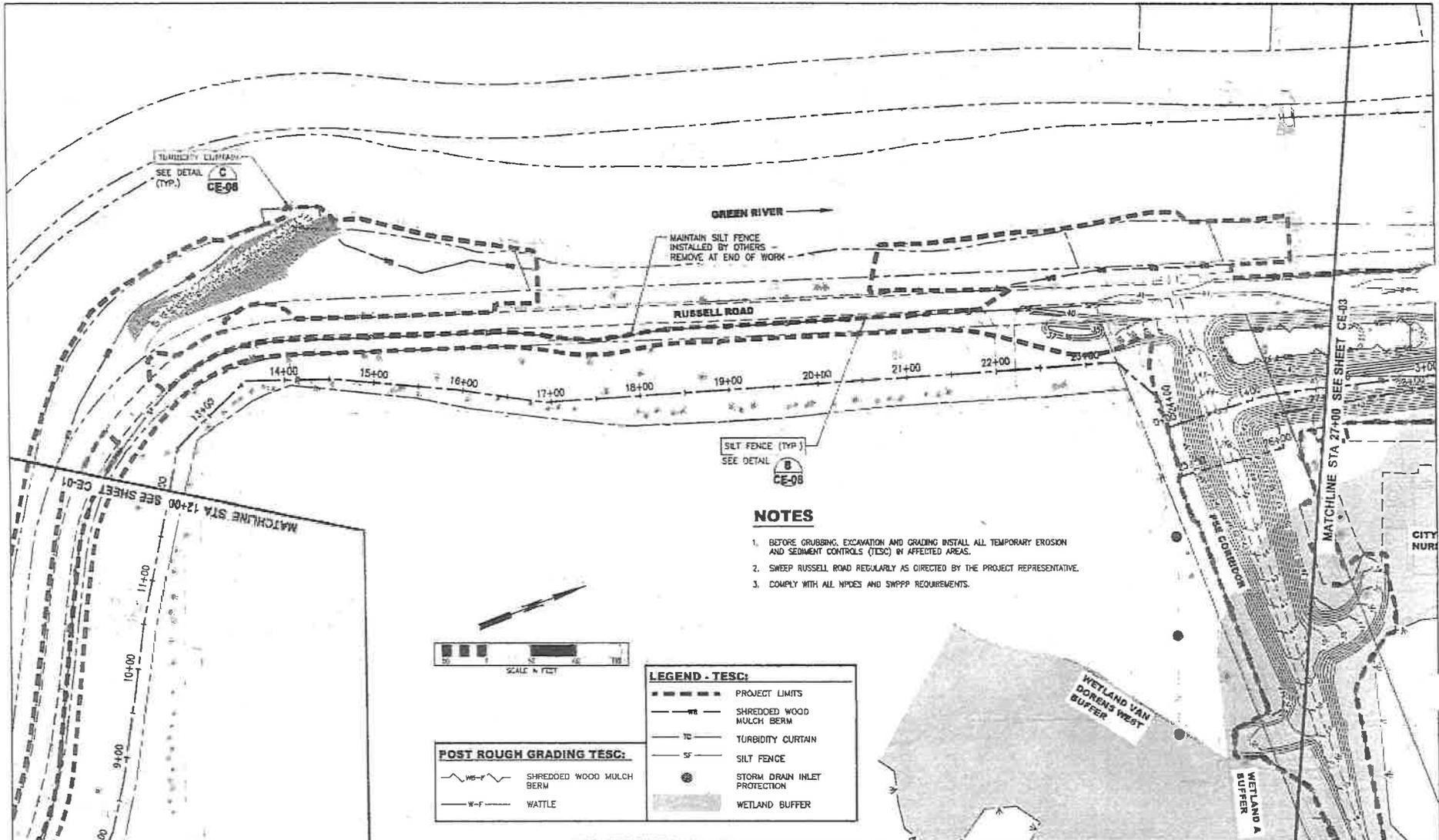


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Truitt, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2

TESC PLAN 1

SHEET
CE-01



NOTES

1. BEFORE GRUBBING, EXCAVATION AND GRADING INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROLS (TESC) IN AFFECTED AREAS.
2. SWEEP RUSSELL ROAD REGULARLY AS DIRECTED BY THE PROJECT REPRESENTATIVE.
3. COMPLY WITH ALL NPDES AND SWPPP REQUIREMENTS.

LEGEND - TESC:

	PROJECT LIMITS
	SHREDDED WOOD MULCH BERM
	TURBIDITY CURTAIN
	SILT FENCE
	STORM DRAIN INLET PROTECTION
	WETLAND BUFFER

POST ROUGH GRADING TESC:

	SHREDDED WOOD MULCH BERM
	WATTLE

SURVEY JOB NO./SOURCE:		FUNDING:	
CHECKED:			
DAD ORDER:	K. KITAHARA 11/2019	PROJECT No.	1112056
DESIGNED:	ERIK PETERS, P.E. 11/2019	CONTRACT No.	001415C20
CHECKED:	ERIK PETERS, P.E. 11/2019		
SUPERVISOR:	LORIN REHNELT, P.E. 11/2019		
RECORD CHANGES APPROVED BY DATE			

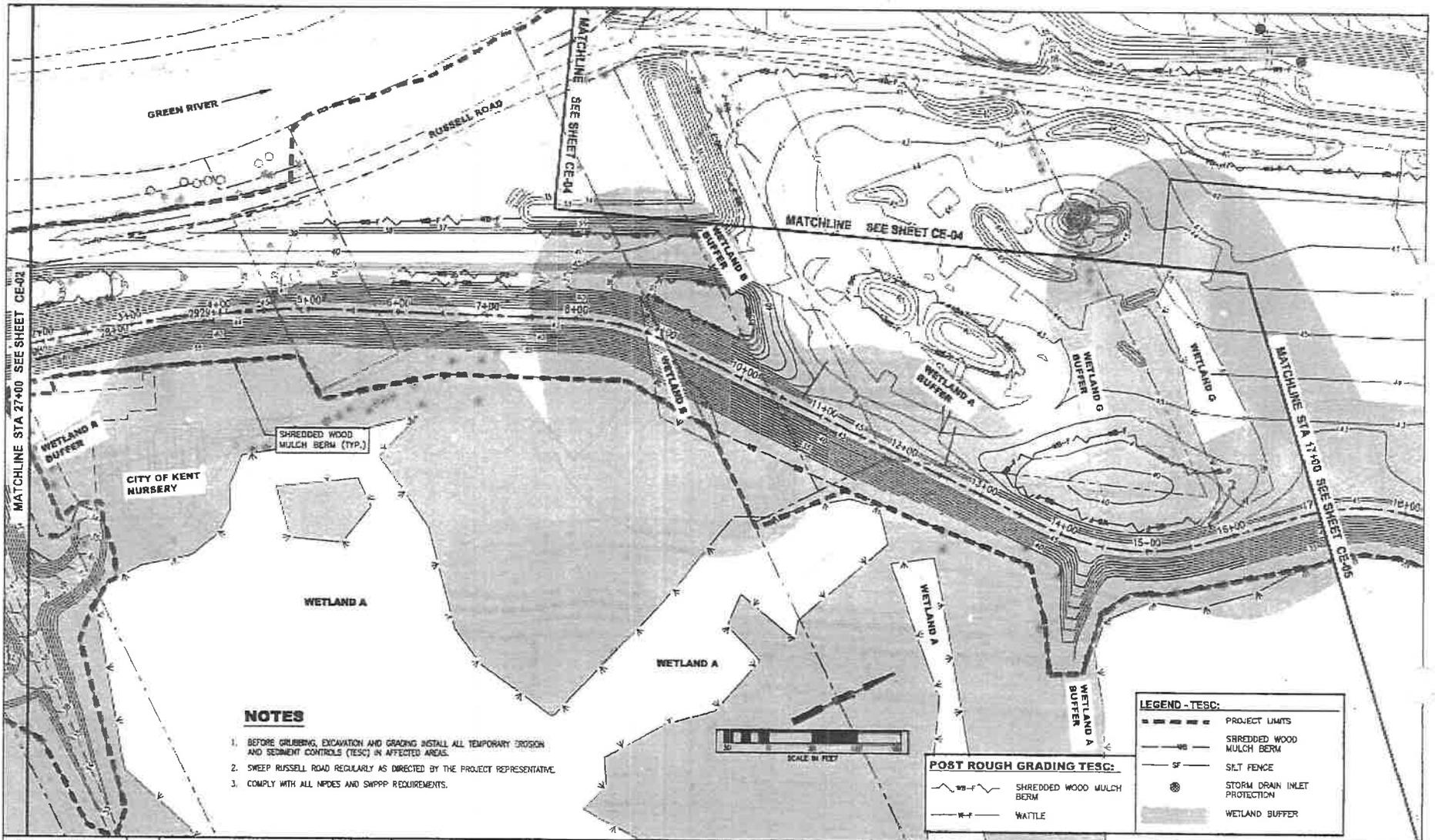


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chrissie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2

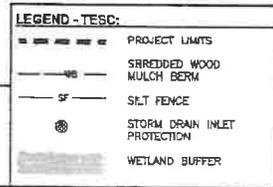
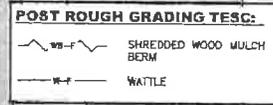
TESC PLAN 2

SHEET
CE-02



NOTES

1. BEFORE GRUBBING, EXCAVATION AND GRADING INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROLS (TESC) IN AFFECTED AREAS.
2. SWEEP RUSSELL ROAD REGULARLY AS DIRECTED BY THE PROJECT REPRESENTATIVE.
3. COMPLY WITH ALL NPDES AND SWPPP REQUIREMENTS.



SURVEY JOB NO./SOURCE:		PLANNED:	
DESIGNED:		PROJECT No.	111-20264
CHKD BY:	TANAKA 11/2014	CONTRACT No.	001415250
DESIGNED:	PETERS, P.E. 11/2018	DATE:	
CHKD BY:	PETERS, P.E. 11/2018		
SUPERVISOR:	REBELT, P.E. 11/2018		
DATE:			
RECORD CHANGES APPROVED BY:			



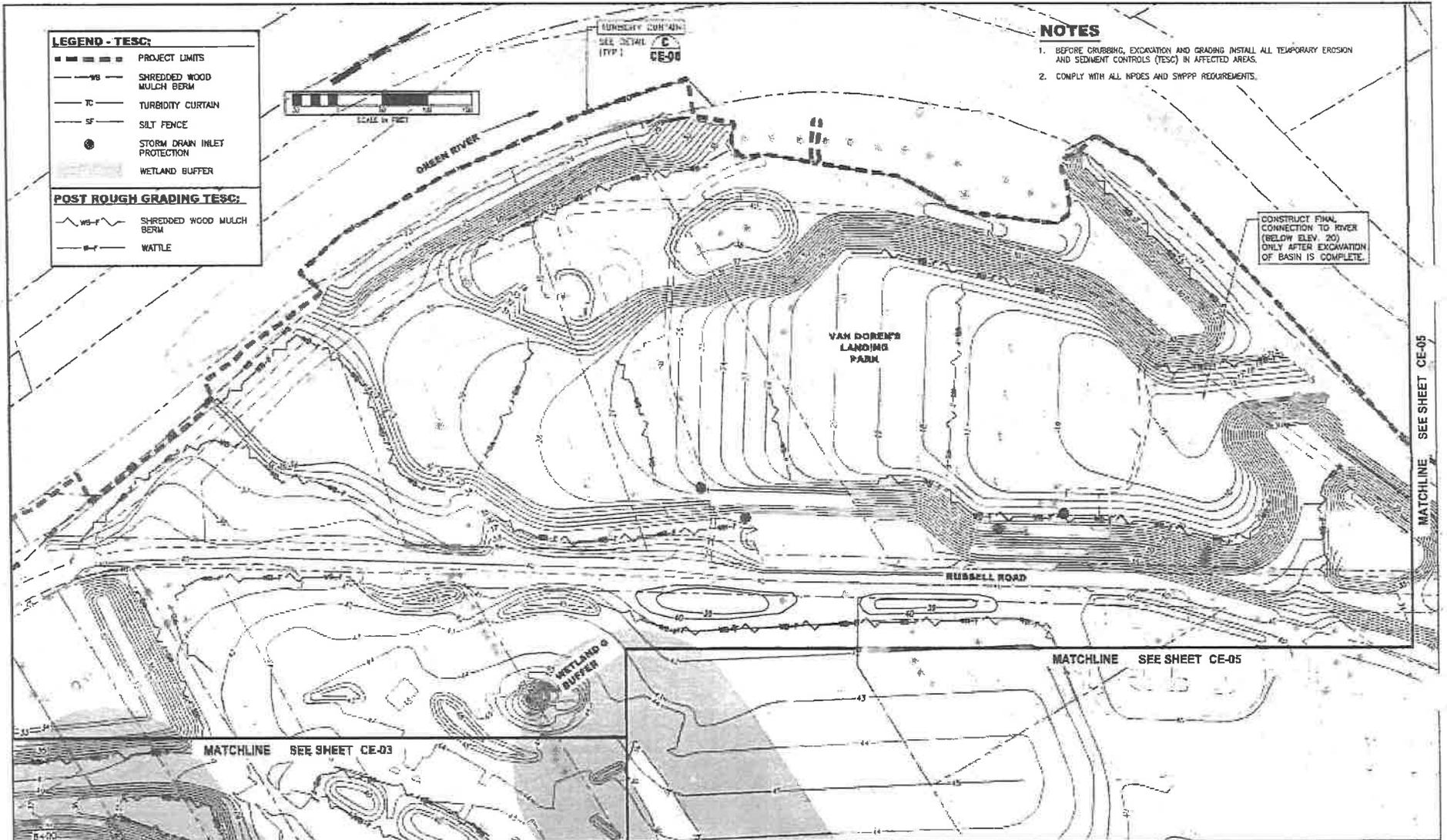
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christa Truss, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2**

TESC PLAN 3

SHEET
CE-03

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LEGEND - TESC:

- PROJECT LIMITS
- WS --- SHREDDED WOOD MULCH BERM
- TC --- TURBIDITY CURTAIN
- SF --- SILT FENCE
- STORM DRAIN INLET PROTECTION
- WETLAND BUFFER

POST ROUGH GRADING TESC:

- WS-F --- SHREDDED WOOD MULCH BERM
- W --- WATTLE

- NOTES**
- BEFORE CRUBBING, EXCAVATION AND GRADING, INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROLS (TESC) IN AFFECTED AREAS.
 - COMPLY WITH ALL NPDES AND SWPPP REQUIREMENTS.

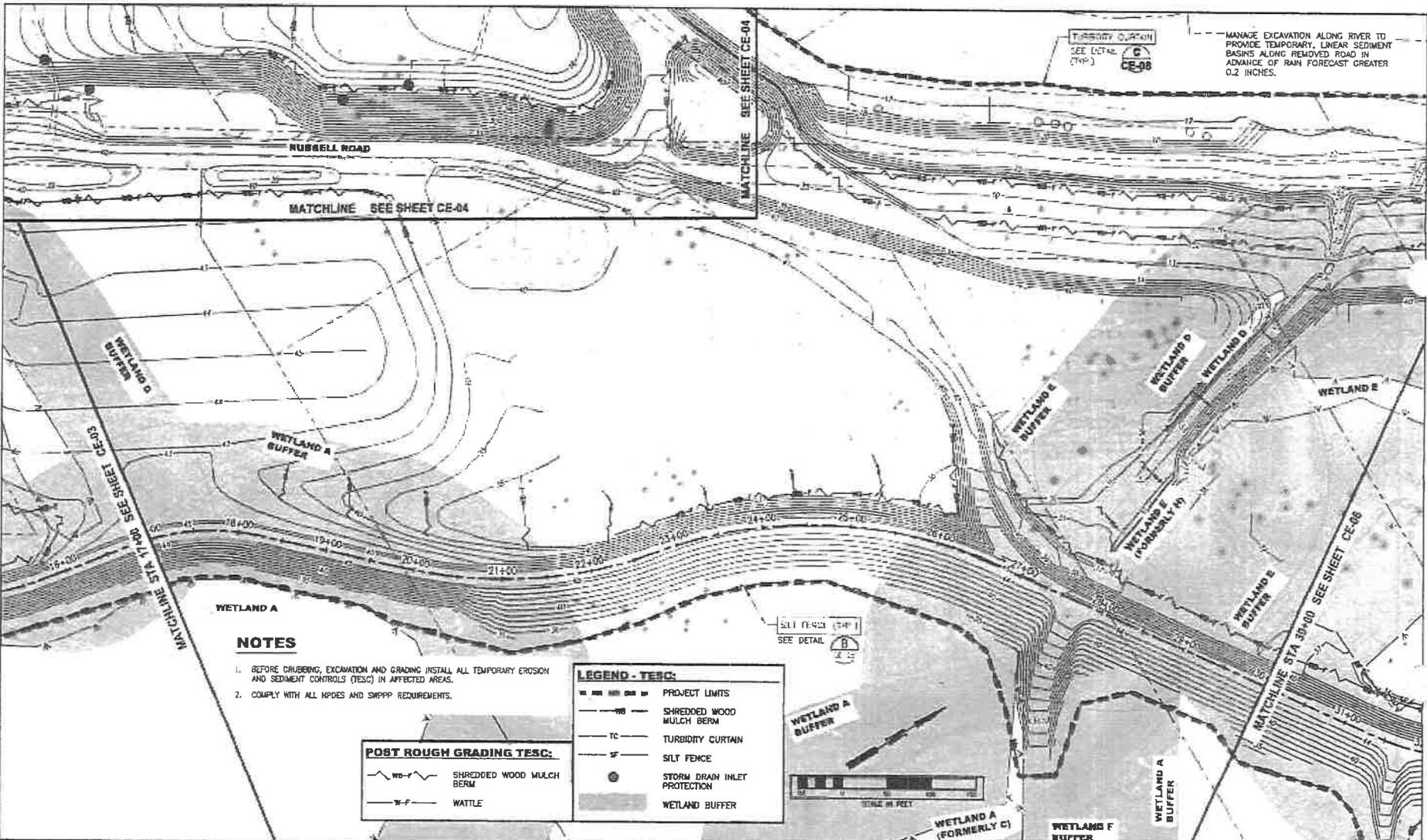
CONSTRUCT FINAL CONNECTION TO RIVER (BELOW ELEV. 20) ONLY AFTER EXCAVATION OF BASIN IS COMPLETE.

MATCHLINE SEE SHEET CE-05

MATCHLINE SEE SHEET CE-05

MATCHLINE SEE SHEET CE-03

<p>LOWER RUSSELL LEVEE SETBACK PROJECT PHASE 2</p> <p>TESC PLAN 4</p>			<p>King County Department of Natural Resources and Parks Water and Land Resources Division River and Floodplain Management Section Climb Trust Director</p>		<p>SHEET CE-04</p>
<p>RECORD CHANGES APPROVED BY DATE</p>			<p>FINISH:</p>		
<p>DESIGNED BY DATE</p>			<p>PROJECT NO. 112706</p>		
<p>CHECKED BY DATE</p>			<p>CONTRACT NO. CC1419C00</p>		
<p>SUPERVISOR</p>					



NOTES

1. BEFORE GRUBBING, EXCAVATION AND GRADING INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROLS (TESC) IN AFFECTED AREAS.
2. COMPLY WITH ALL NPDES AND SWPPP REQUIREMENTS.

LEGEND - TESC:

- PROJECT LIMITS
- SHREDDED WOOD MULCH BERM
- TURBIDITY CURTAIN
- SILT FENCE
- STORM DRAIN INLET PROTECTION
- WETLAND BUFFER

POST ROUGH GRADING TESC:

- SHREDDED WOOD MULCH BERM
- WATTLE

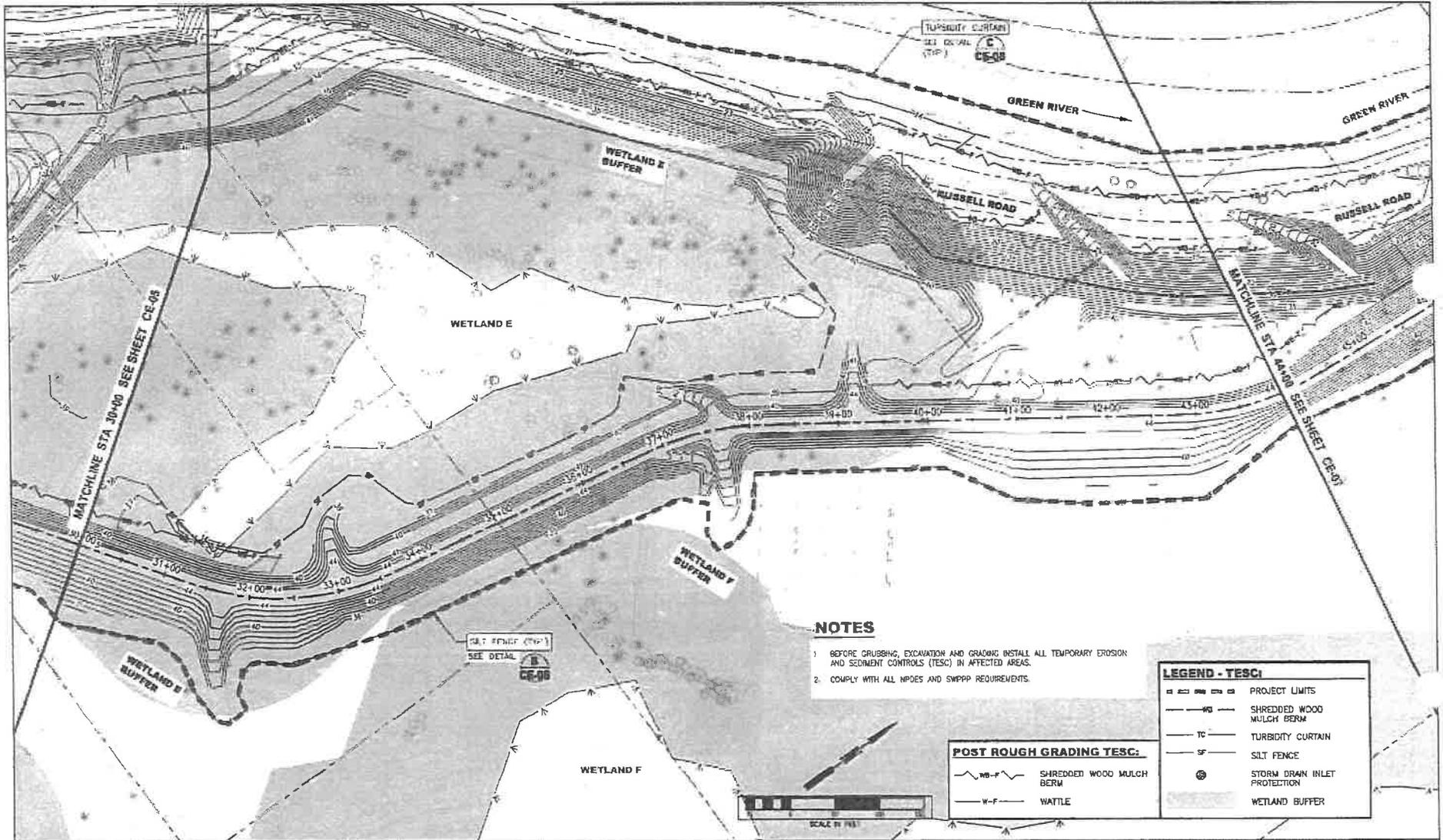
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CHECKED:		PROJECT No.	1112026
CAD ENTERED:	K. STAMBERA 11/17/2018	CONTRACT No.	CD14150302
DESIGNED:	ERIK PETERS, P.E. 11/16/2018		
CHECKED:	ERIK PETERS, P.E. 11/20/18		
SUPERVISOR:	LORN REINELT, P.E. 11/22/18		
DATE:		RECORD CHANGES APPROVED BY:	DATE:



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
TESC PLAN 5

SHEET
CE-05



NOTES

- BEFORE GRUBBING, EXCAVATION AND GRADING INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROLS (TESC) IN AFFECTED AREAS.
- COMPLY WITH ALL NPDES AND SWPPP REQUIREMENTS.

LEGEND - TESC

	PROJECT LIMITS
	SHREDDED WOOD MULCH BERM
	TURBIDITY CURTAIN
	SILT FENCE
	STORM DRAIN INLET PROTECTION
	WETLAND BUFFER

POST ROUGH GRADING TESC:

	SHREDDED WOOD MULCH BERM
	WATTLE

SURVEY JOB NO./DATE:		PLANNING:	
CHECKED:			
CDR DRYDEN:	E. KITAMURA 11/2018	PROJECT No.	1112056
DESIGNED:	ERIK PETERS, P.E. 11/2018	CONTRACT No.	001415002
CHECKED:	ERIK PETERS, P.E. 11/2018		
SUPERVISOR:	LORN REINHILT, P.E. 11/2018		
SEAL:	REVISIONS APPROVED BY DATE		



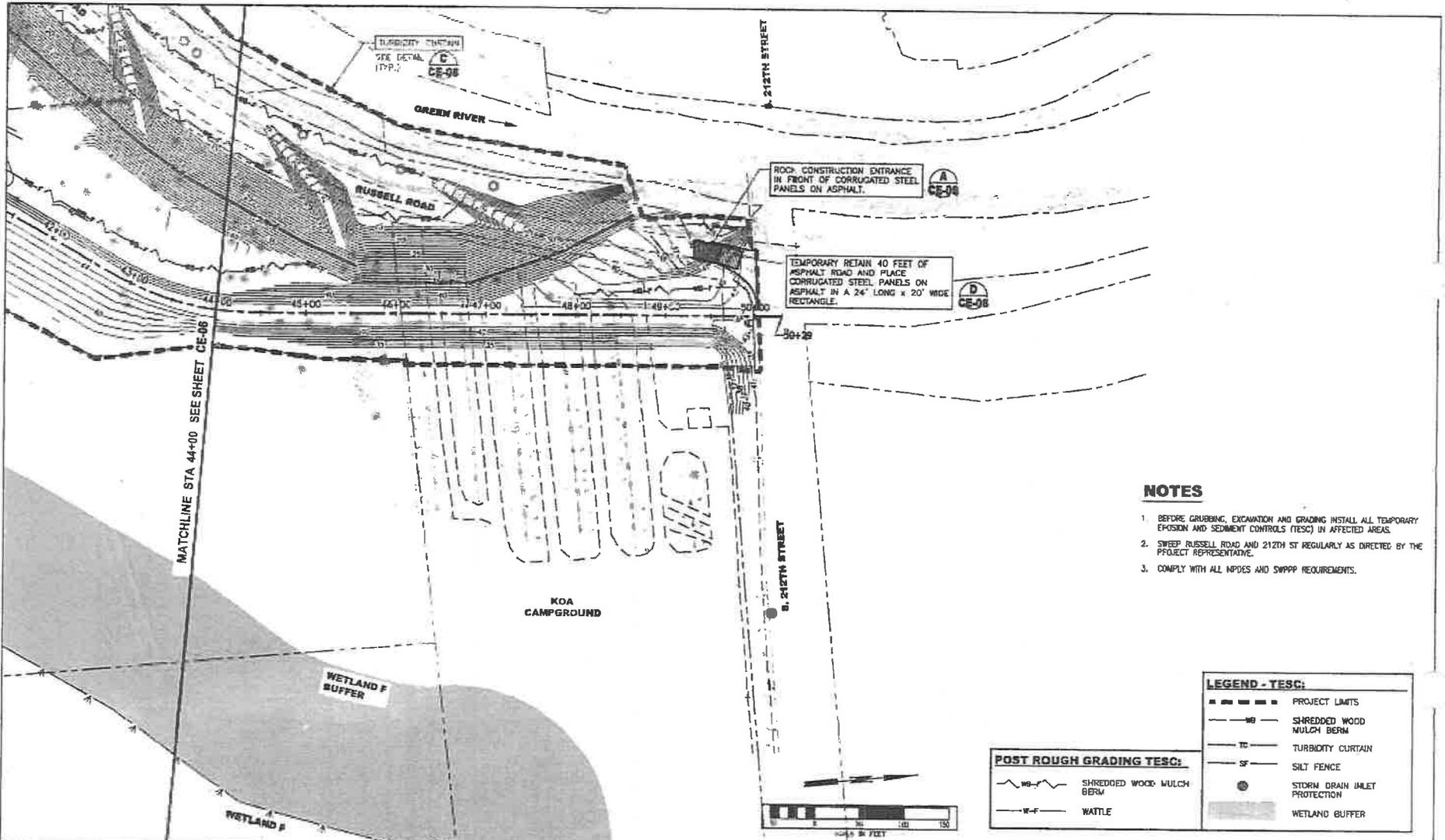
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christa True, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2**

TESC PLAN 6

SHEET
CE-06

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NOTES

1. BEFORE GRUBBING, EXCAVATION AND GRADING INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROLS (TESC) IN AFFECTED AREAS.
2. SWEEP RUSSELL ROAD AND 212TH ST REGULARLY AS DIRECTED BY THE PROJECT REPRESENTATIVE.
3. COMPLY WITH ALL NPDES AND SWPPP REQUIREMENTS.

LEGEND - TESC:	
	PROJECT LIMITS
	SHREDDED WOOD MULCH BERM
	TURBIDITY CURTAIN
	SILT FENCE
	STORM DRAIN INLET PROTECTION
	WETLAND BUFFER

POST ROUGH GRADING TESC:	
	SHREDDED WOOD MULCH BERM
	WATTLE

SURVEY JOB NO./SCALE		PLACING	
CHECKED:	K. KITAMURA (1/2/2019)	PROJECT No.	1112208
CAD ENTERED:	ERIK PETERS, M.E. (1/2/2019)	CONTRACT No.	001425C10
DESIGNED:	ERIK PETERS, M.E. (1/2/2019)		
CHECKED:	ERIK PETERS, M.E. (1/2/2019)		
SUPERVISOR:	LOREN REINELT, P.E. (1/2/2019)		
DATE	RECORD CHANGES APPROVED BY DATE		



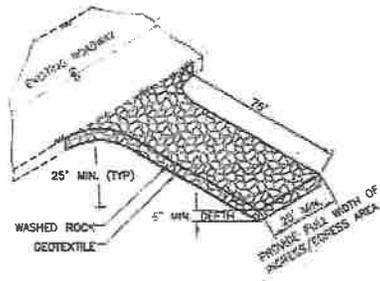
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christa Tiso, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2

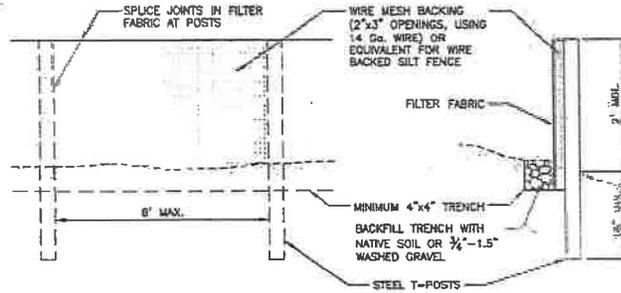
TESC PLAN#

SHEET
CE-07

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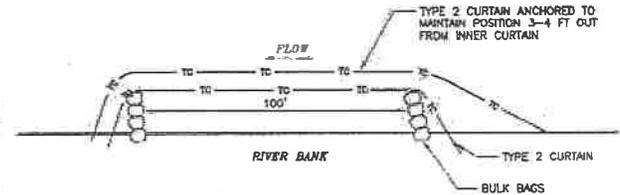


TEMPORARY ROCK CONSTRUCTION ENTRANCE DETAIL
SCALE: NTS



NOTE: INSTALL SILT FENCES ALONG CONTOUR WHENEVER POSSIBLE

SILT FENCE & WIRE BACKED SILT FENCE DETAIL
SCALE: NTS

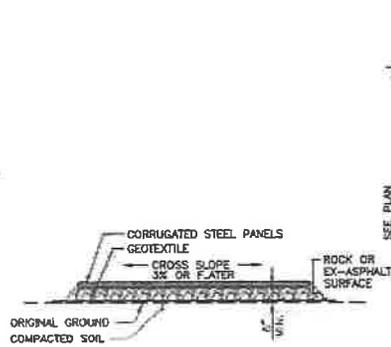


NOTE: 2ND OUTER TURBIDITY CURTAIN REQUIRED ONLY WHEN ONE CURTAIN WILL NOT MEET TURBIDITY CONTROL REQUIREMENTS.

IN WATER TURBIDITY CONTROL DETAIL
SCALE: NTS



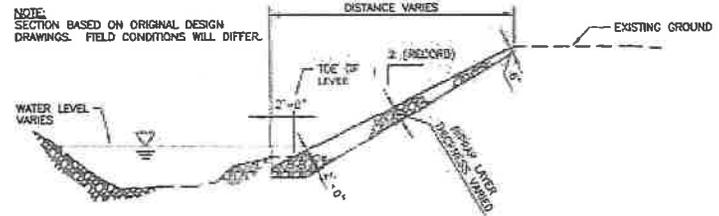
SECTION A-A



NOTE: NO ROCK UNDER PANELS WHEN PLACED ON ASPHALT OR FIRM SOIL.

SECTION B-B

TYPICAL CORRUGATED STEEL PANEL DETAIL
SCALE: NTS



NOTE: SECTION BASED ON ORIGINAL DESIGN DRAWINGS. FIELD CONDITIONS WILL DIFFER.

EXISTING REVERBANK RIPRAP SECTION
SCALE: NTS



Know what's below.
Call before you dig.

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./SOURCE:									
CHECKED BY:	K. KITAHARA	11/2018							
DATE ENTERED:	ERIK PETERS, P.E.	11/2018	FINAL	REVISION	BY	DATE			
DESIGNED BY:	ERIK PETERS, P.E.	11/2018							
CHECKED BY:	ERIK PETERS, P.E.	11/2018							
SUPERVISOR:	LORIN REMELT, P.E.	11/2018							
			RECORD CHANGED	APPROVED	BY	DATE			

FUNDING:	
PROJECT No.	1112056
CONTRACT No.	CD1415C20



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christa True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2

TESC DETAILS

SHEET
CE-08

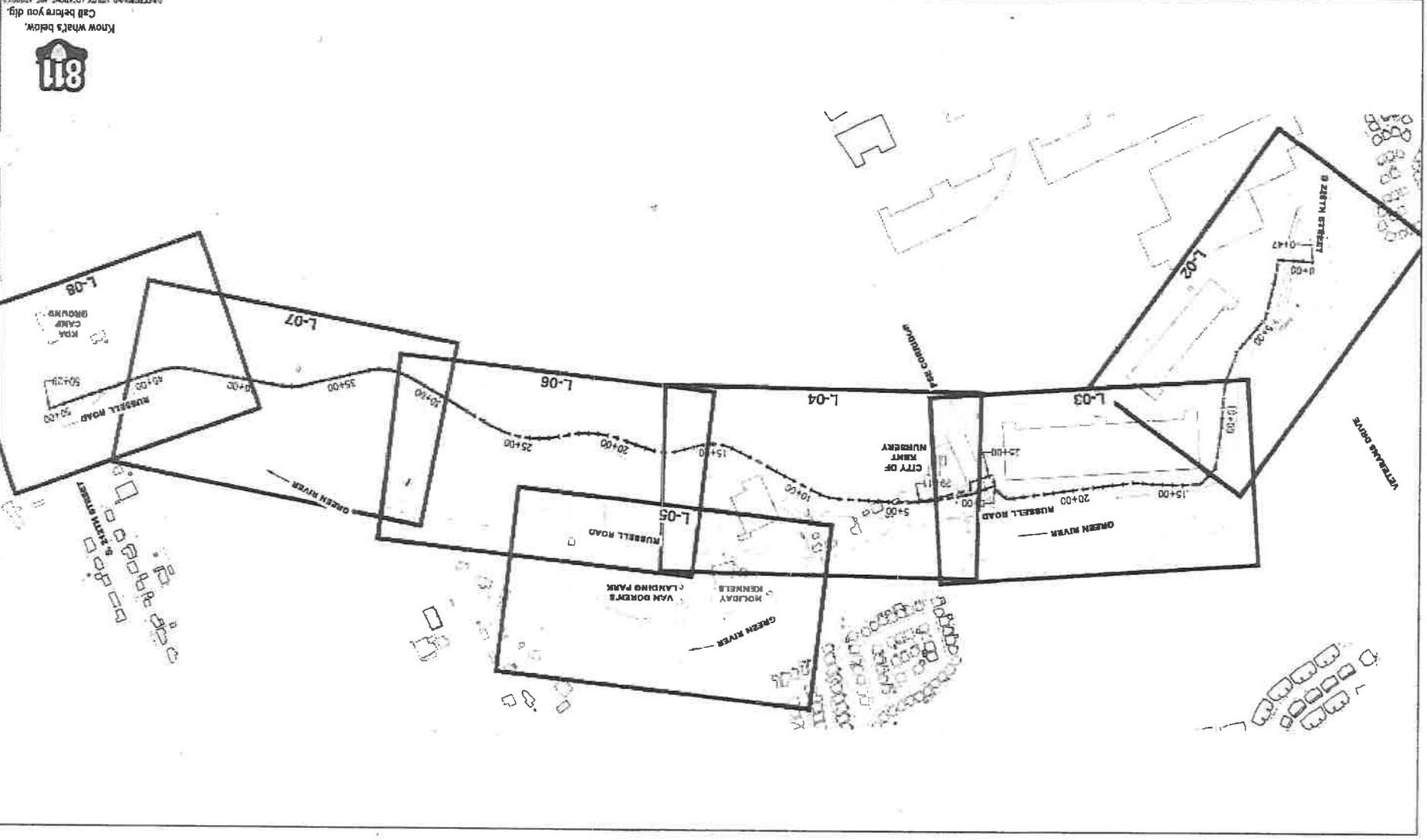
NO.	NAME	DATE	REVISIONS	BY	DATE
1	LOAN MERRILL, P.E.	11/2018			
2	DNK PETERS, P.E.	11/2018			
3	DNK PETERS, P.E.	11/2018			
4	K. GILMURA	11/2018			

NUMBER: _____
 PROJECT NO. 1112018
 CONTRACT NO. CO1415023

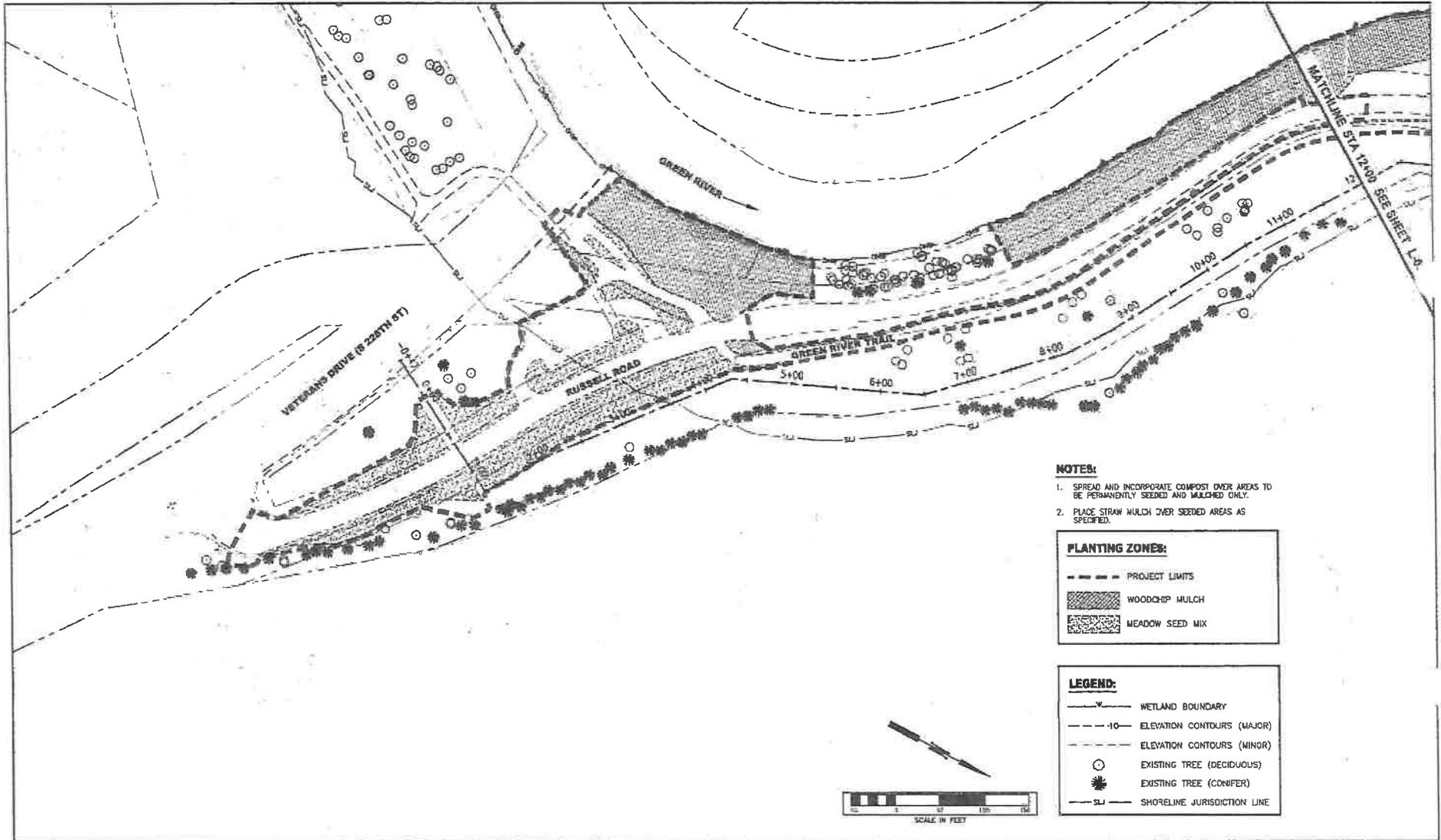


King County
 Department of Natural Resources and Parks
 River and Floodplain Management Section
 Critical Tree Decoder

LANDSCAPE PLAN KEY MAP
 LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 L-04 SHEET



Know what's below.
 Call before you dig.
 811



- NOTES:**
1. SPREAD AND INCORPORATE COMPOST OVER AREAS TO BE PERMANENTLY SEEDDED AND MULCHED ONLY.
 2. PLACE STRAW MULCH OVER SEEDDED AREAS AS SPECIFIED.

PLANTING ZONES:

- PROJECT LIMITS
- WOODCHIP MULCH
- MEADOW SEED MIX

LEGEND:

- WETLAND BOUNDARY
- ELEVATION CONTOURS (MAJOR)
- ELEVATION CONTOURS (MINOR)
- EXISTING TREE (DECIDUOUS)
- EXISTING TREE (CONIFER)
- SHORELINE JURISDICTION LINE

SURVEY JOB NO./SOURCE:					
CHECKED:	E. KITAMURA	11/2018			
CAD ENTERED:	ERIK PETERS, P.E.	11/2019	NUM.	REVISION	BY DATE
DESIGNED:	ERIK PETERS, P.E.	11/2018			
CHECKED:	ERIK PETERS, P.E.	11/2018			
SUPERVISOR:	LORIN REHELT, P.E.	11/2018			
			NUM.	REVISION	APPROVED BY DATE

FUNDING:

PROJECT No.	1112058
CONTRACT No.	001415C20

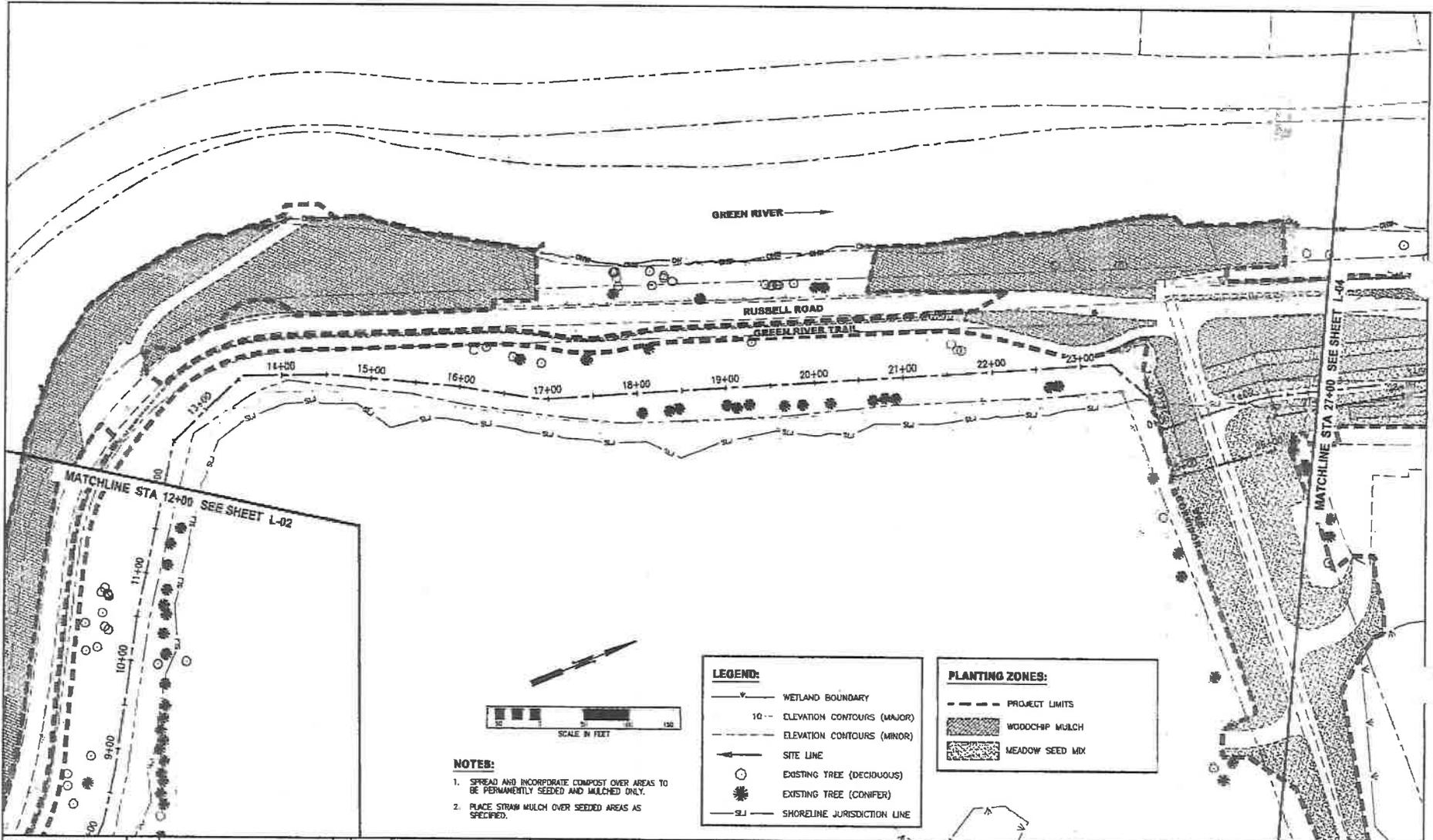


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christine Triss, Director

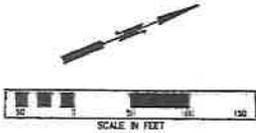
**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2**

LANDSCAPE PLAN 1

SHEET
L-02



NOTES:
 1. SPREAD AND INCORPORATE COMPOST OVER AREAS TO BE PERMANENTLY SEEDED AND MULCHED ONLY.
 2. PLACE STRAW MULCH OVER SEEDED AREAS AS SPECIFIED.



LEGEND:

- WETLAND BOUNDARY
- 10' ELEVATION CONTOURS (MAJOR)
- ELEVATION CONTOURS (MINOR)
- SITE LINE
- EXISTING TREE (DECIDUOUS)
- ⊙ EXISTING TREE (CONIFER)
- SLJ SHORELINE JURISDICTION LINE

PLANTING ZONES:

- PROJECT LIMITS
- WOODCHIP MULCH
- MEADOW SEED MIX

DATE	BY	REVISION
11/2018	K. KITAMURA	CHECKED
11/2019	ERIK PETERS, P.E.	DESIGNED
11/2019	ERIK PETERS, P.E.	CHECKED
11/2019	LORIN REBELT, P.E.	SUPERVISOR

FUNDING:

PROJECT No. 1112054

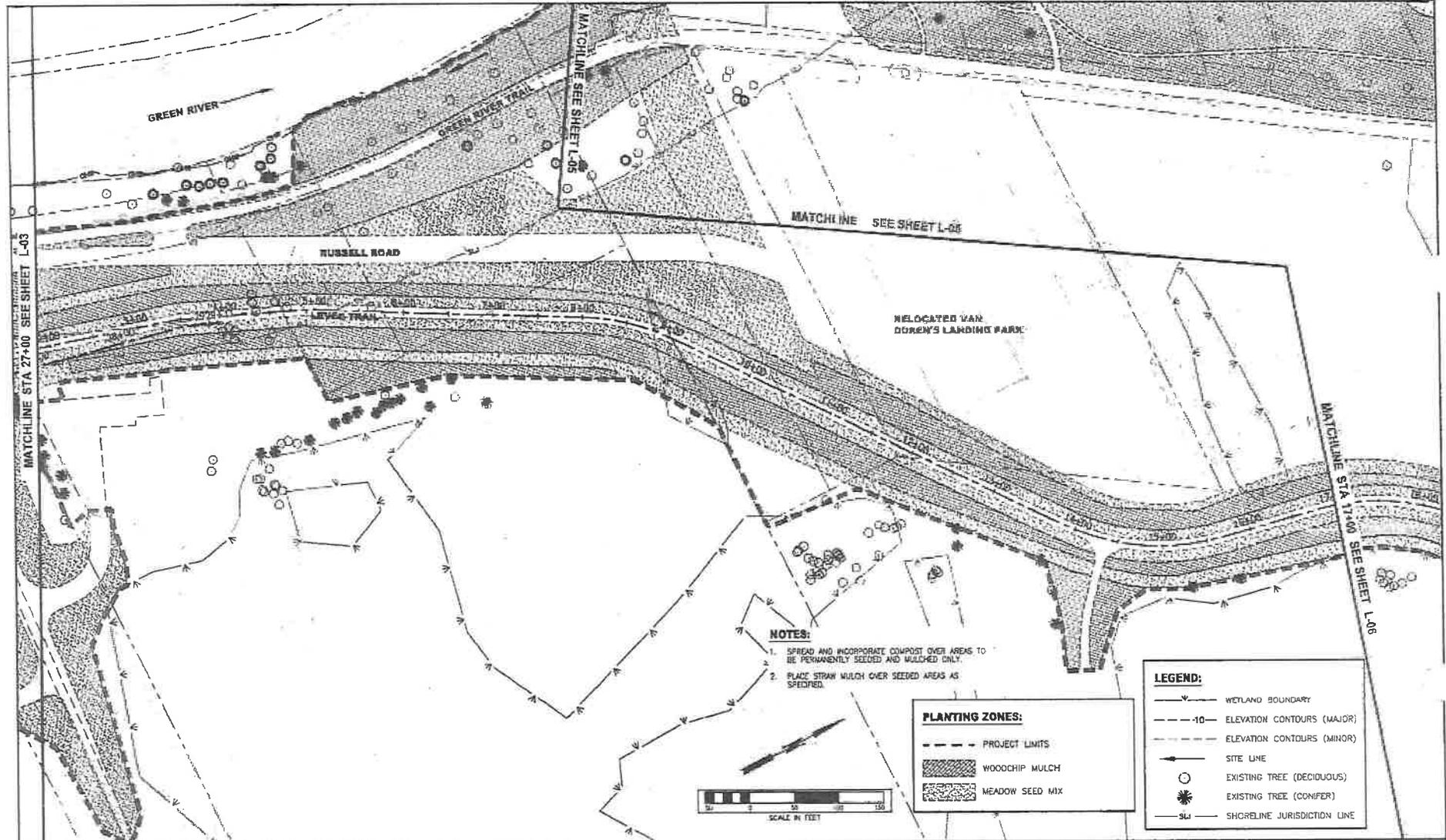
CONTRACT No. D01415C20



King County
 Department of Natural Resources and Parks
 Water and Land Resources Director
 River and Floodplain Management Section
 Christa Triss, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
LANDSCAPE PLAN 2

SHEET
L-03



SURVEY JOB NO./SCALE:		FUNDING:	
CHECKED:			
CAD DWTNED:	K. KITAMURA 11/2019	PROJECT No.	1119258
DESIGNED:	ERIK PETERS, P.E. 11/2019	CONTRACT No.	CO1415C20
CHECKED:	ERIK PETERS, P.E. 11/2019		
SUPERVISOR:	LORIN REHNEY, P.E. 11/2019		
NUM.	REVISION	BY	DATE
	RECORD CHANGES APPROVED	BY	DATE



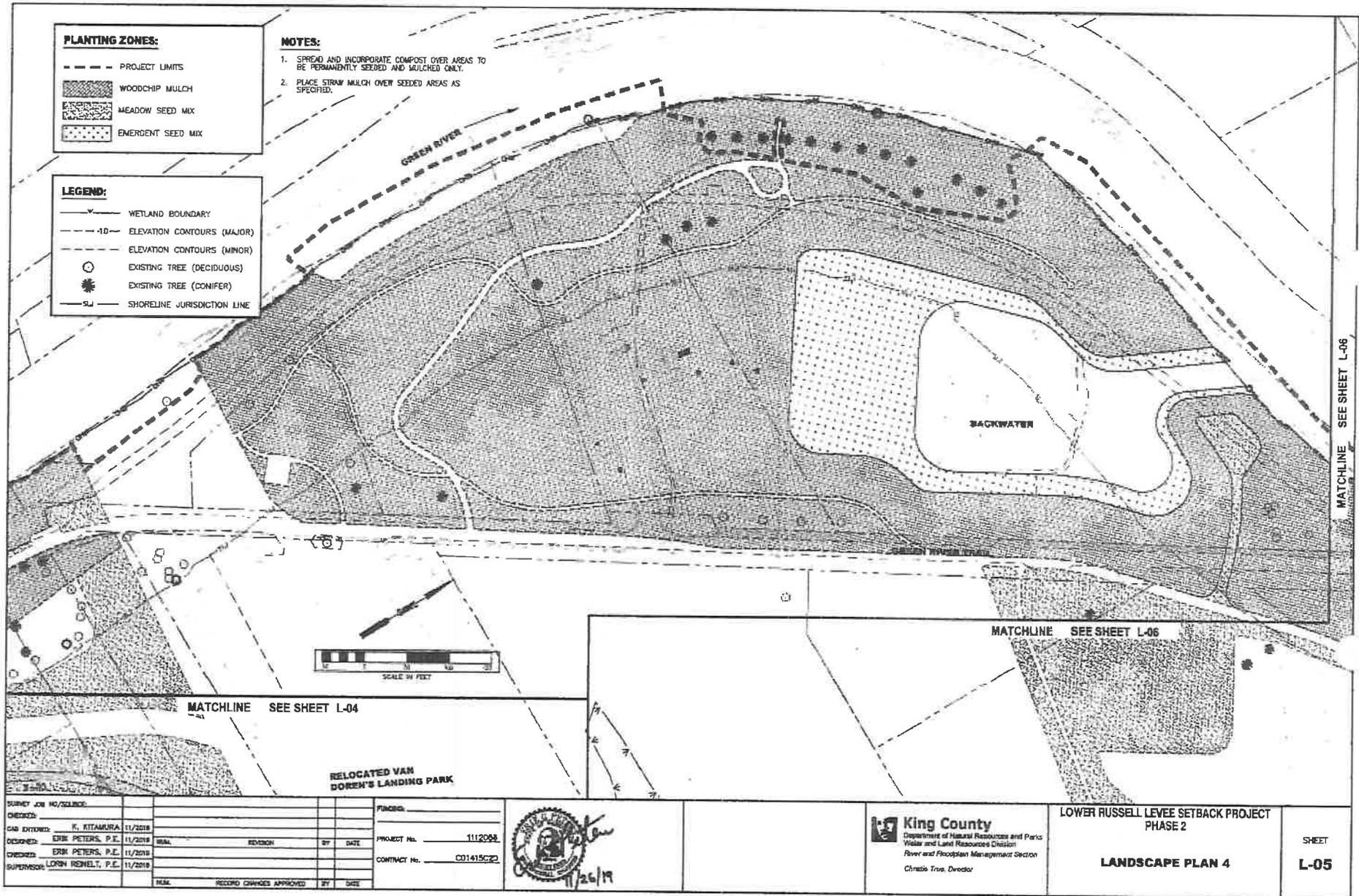
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chrisa True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2

LANDSCAPE PLAN 3

SHEET
L-04

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PLANTING ZONES:

- PROJECT LIMITS
- WOODCHIP MULCH
- MEADOW SEED MIX
- EMERGENT SEED MIX

LEGEND:

- WETLAND BOUNDARY
- 10- ELEVATION CONTOURS (MAJOR)
- ELEVATION CONTOURS (MINOR)
- EXISTING TREE (DECIDUOUS)
- EXISTING TREE (CONIFER)
- SHORELINE JURISDICTION LINE

NOTES:

1. SPREAD AND INCORPORATE COMPOST OVER AREAS TO BE PERMANENTLY SEEDED AND MULCHED ONLY.
2. PLACE STRAW MULCH OVER SEEDED AREAS AS SPECIFIED.

MATCHLINE SEE SHEET L-04

RELOCATED VAN
DOREM'S LANDING PARK

MATCHLINE SEE SHEET L-06

MATCHLINE SEE SHEET L-06

SURVEY JOB NO./SCALE:		FUNDED:	
DESIGNED BY:	DATE:	PROJECT No.	1112068
ERIK PETERS, P.E.	11/2019	CONTRACT No.	CO1415C22
ERIK PETERS, P.E.	11/2019		
SUPERVISOR:	DATE:		
LOREN REHNELT, P.E.	11/2019		
RECORD CHANGES APPROVED BY:	DATE:		



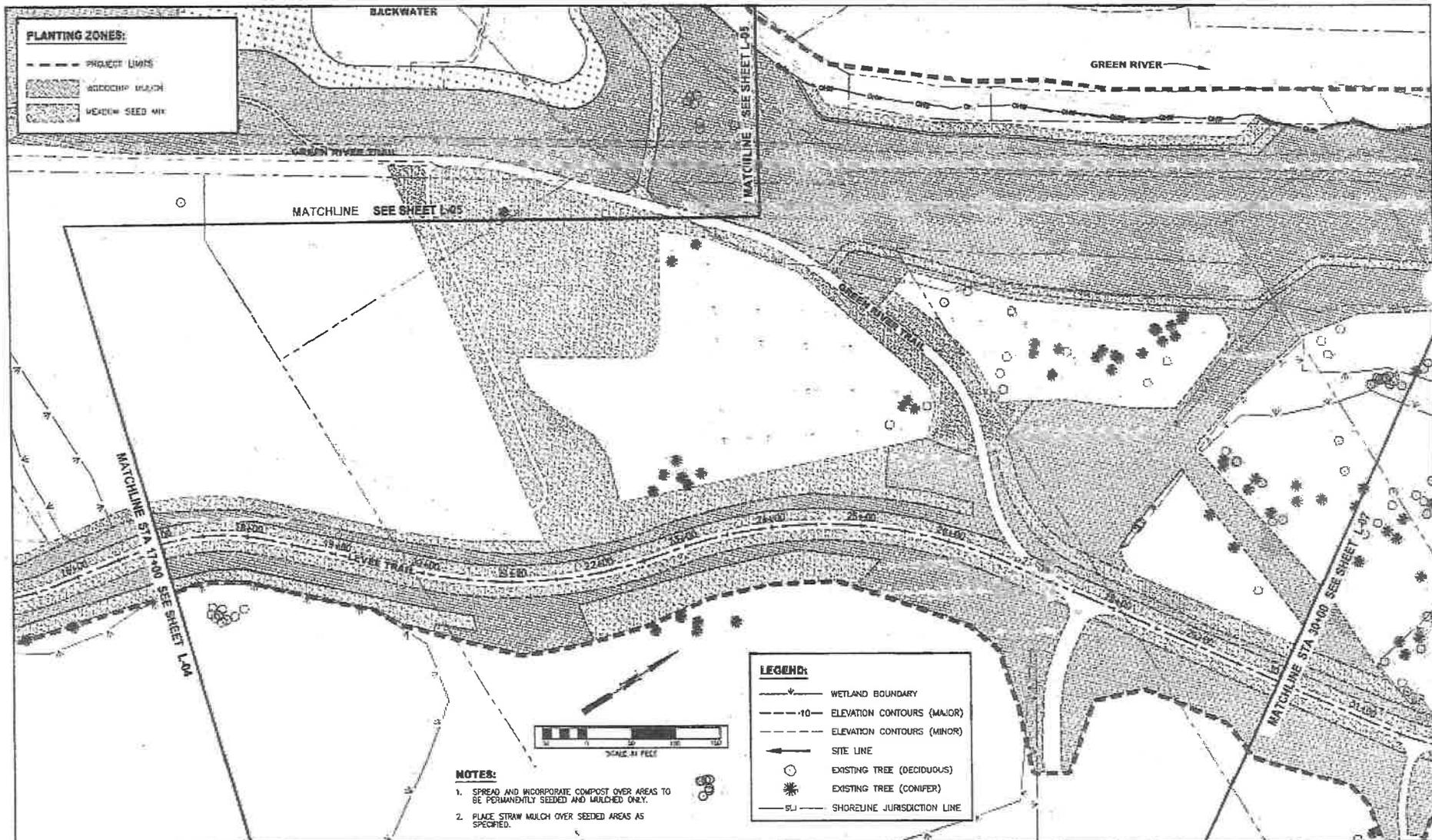
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chadis Tron, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2

LANDSCAPE PLAN 4

SHEET
L-05

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SURVEY JOB NO./SOURCE:		PLANNED:	
CHECKED:	K. KITAHARA 11/25/19	PROJECT NO.:	1112086
CAD ENTERED:	ERIK PETERS, P.E. 11/25/19	CONTRACT NO.:	001415C20
DESIGNED:	ERIK PETERS, P.E. 11/25/19		
CHECKED:	ERIK PETERS, P.E. 11/25/19		
SUPERVISOR:	LORIN REHELT, P.E. 11/25/19		
	ISSUED FOR APPROVAL BY:	DATE:	11/26/19

NOTES:

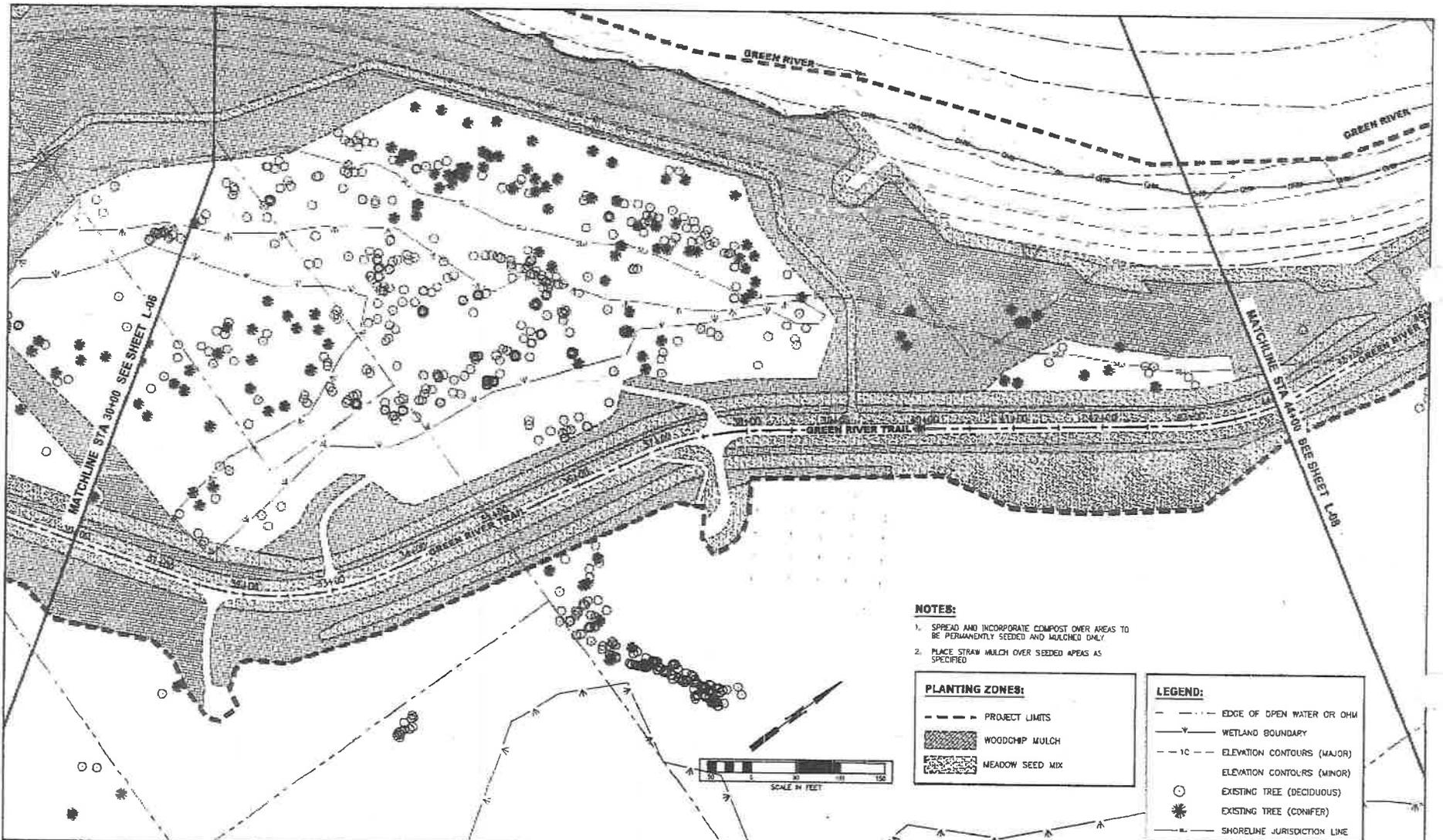
1. SPREAD AND INCORPORATE COMPOST OVER AREAS TO BE PERMANENTLY SEEDDED AND MULCHED ONLY.
2. PLACE STRAW MULCH OVER SEEDDED AREAS AS SPECIFIED.



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chrissie Trice, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
LANDSCAPE PLAN 5

SHEET
L-06



- NOTES:**
1. SPREAD AND INCORPORATE COMPOST OVER AREAS TO BE PERMANENTLY SEEDED AND MULCHED ONLY.
 2. PLACE STRAW MULCH OVER SEEDED AREAS AS SPECIFIED.

PLANTING ZONES:

- PROJECT LIMITS
- [Hatched Box] WOODCHIP MULCH
- [Dotted Box] MEADOW SEED MIX

LEGEND:

- EDGE OF OPEN WATER OR OHW
- WETLAND BOUNDARY
- - - ELEVATION CONTOURS (MAJOR)
- - - ELEVATION CONTOURS (MINOR)
- EXISTING TREE (DECIDUOUS)
- * EXISTING TREE (CONIFER)
- SHORELINE JURISDICTION LINE

SURVEY JOB NO./REVISION					
CHECKED:	K. KITAJIMA	11/2019			
CAD ENTERED:	ERIK PETERS, P.E.	11/2019			
DESIGNED:	ERIK PETERS, P.E.	11/2019			
CHECKED:	ERIK PETERS, P.E.	11/2019			
SUPERVISOR:	LORRY REHMET, P.E.	11/2019			
NO.	REVISIONS	APPROVED	BY	DATE	

FUNDING:

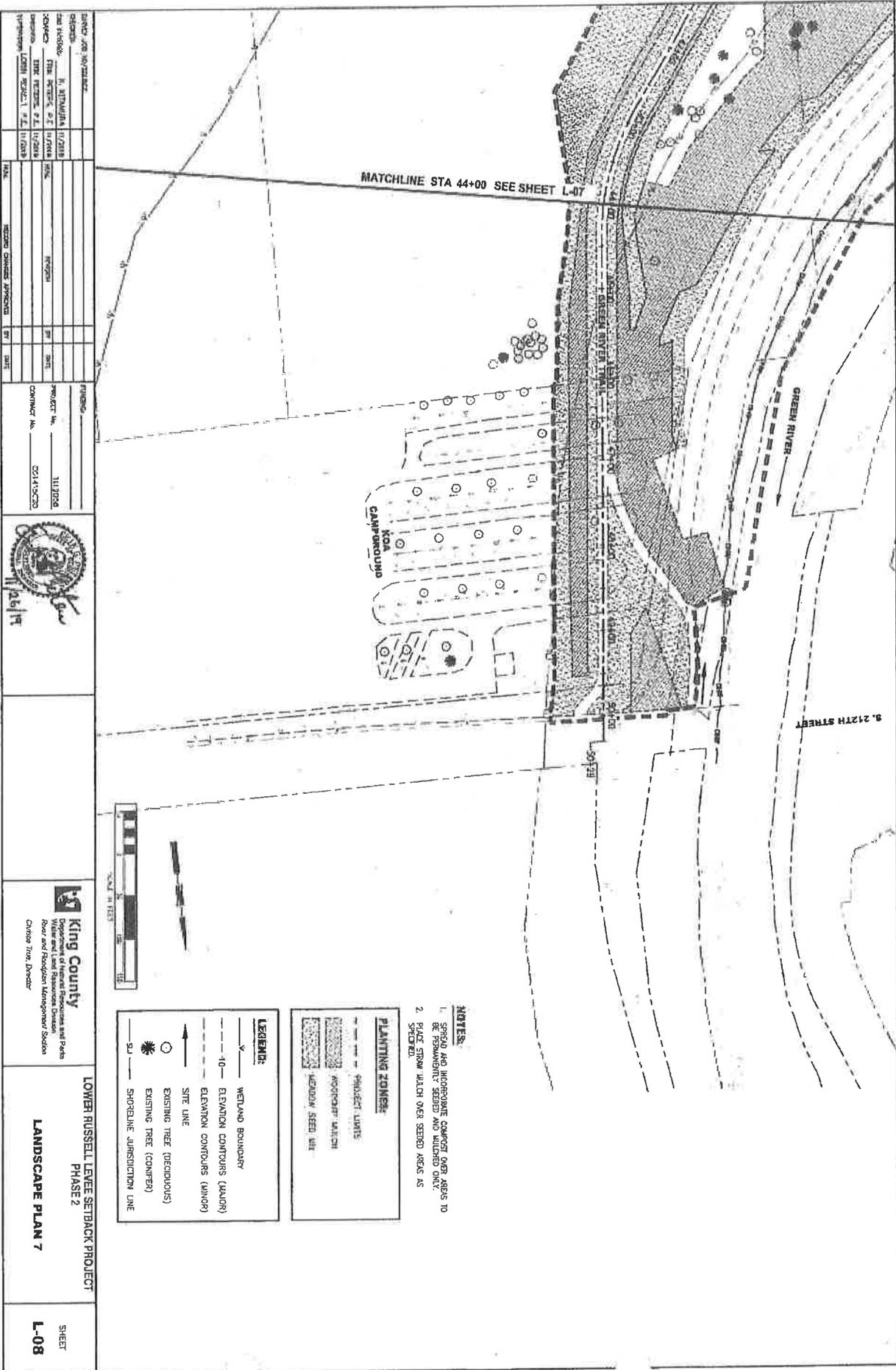
PROJECT NO.	1112058
CONTRACT NO.	C01415C10



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chizale True Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
LANDSCAPE PLAN 6

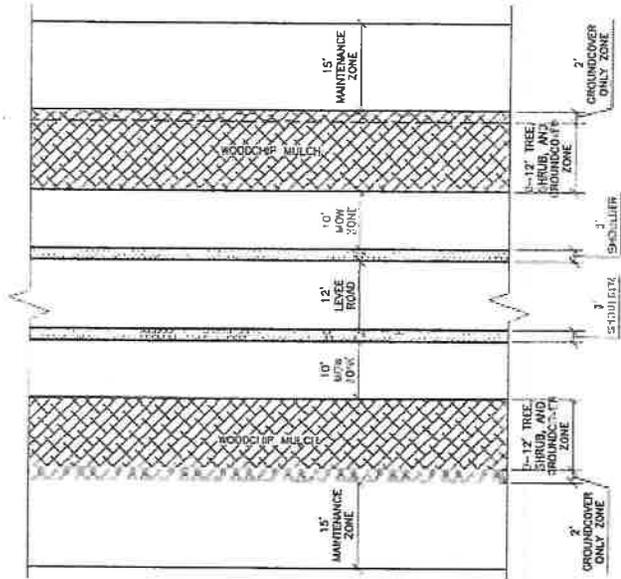
SHEET
L-07



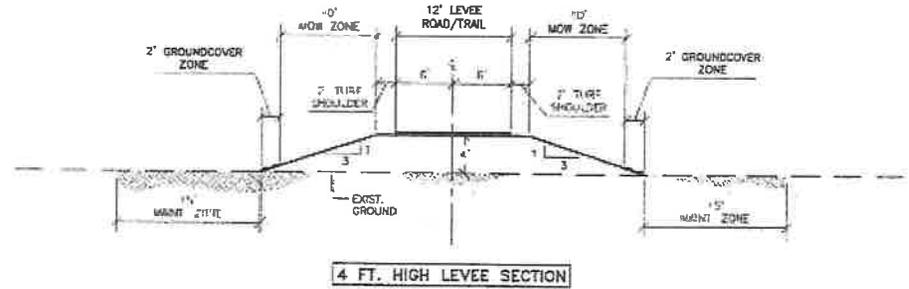
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NOTES:

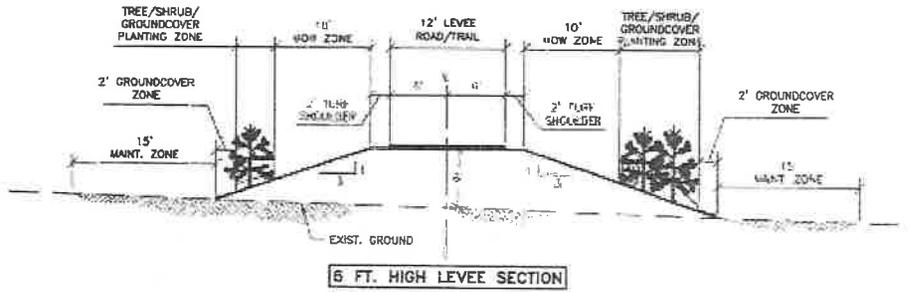
1. MEADOW SEED MIX SHALL BE SEEDD ALONG 2-FOOT SHOULDERS AND 10-FOOT MOW ZONES ON EACH SIDE OF LEVEE ROAD/ TRAIL.
2. PLACE WOODCHIP MULCH AT 3-4 INCH DEPTH ON THE REMAINING LEVEE SLOPE BETWEEN THE 10-FOOT MOW ZONE AND MAINTENANCE ZONE AS SHOWN ON DRAWINGS (VARIES WITH LEVEE HEIGHT).
3. PLANTINGS (TREES, SHRUBS, & GROUNDCOVER) TO BE DONE BY OTHERS, NOT IN THIS CONTRACT.



LEVEE SEEDING & WOODCHIP MULCH TYPICAL PLAN LAYOUT
SCALE: NTS



4 FT. HIGH LEVEE SECTION



6 FT. HIGH LEVEE SECTION

LEVEE PLANTINGS - TYPICAL SECTIONS
SCALE: NTS

NOTE:
PLANTINGS SHOWN ARE NOT IN CONTRACT.



Know what's below.
Call before you dig.

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

CHECKED:									
DWG. DESIGNED:	K. KITAHARA	11/2019							
DESIGNED:	ERIK PETERS, P.E.	11/2019	HAL	REVISION	BY	DATE			
CHECKED:	ERIK PETERS, P.E.	11/2019							
SUPPLEMENT:	LORIN REHELT, P.E.	11/2019							
			HAL	RECORD CHANGES APPROVED	BY	DATE			

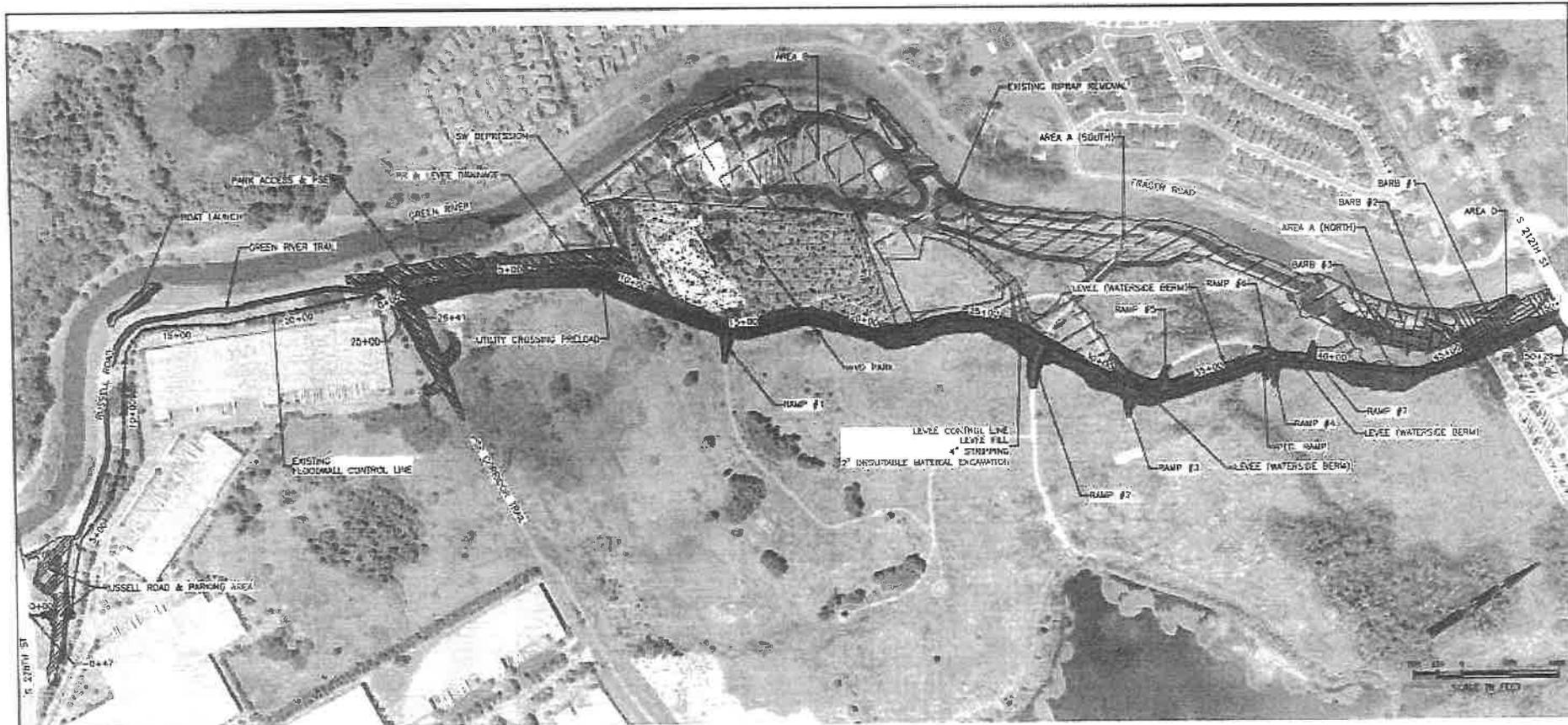
FUNDING:	
PROJECT No.	1112056
CONTRACT No.	001415C20



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
LANDSCAPE DETAILS

SHEET
L-09



NOTES:

- 1. SEE DRAWING T-02 FOR TABLES OF EARTHWORK VOLUMES FOR EACH AREA



CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555

Know what's below.
Call before you dig.

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
EARTHWORK TABULATION
AREAS

SHEET
T-01

DATE	BY	DATE	BY	DATE
DESIGNED	RD	11/18		
CHECKED	WR	11/18		
DRAWN	MF	11/18		
SUPERVISOR	SLJ	11/18		

PURPOSE:	
PROJECT No.	1112056
CONTRACT No.	CD1415C20



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Truse, Director

STATION	LEVEE EARTHWORK					
	EMBANKMENT PLACEMENT					
	Common Fill		Select Fill		Low Permeable Fill	
	"End Area (SF)"	"Vol (CY)"	"End Area (SF)"	"Vol (CY)"	"End Area (SF)"	"Vol (CY)"
0+00	0.0	0.0	0.0	0.0	0.0	0.0
1+00	123.1	227.9	202.7	375.3	82.4	152.5
2+00	98.2	408.8	170.2	690.5	69.2	280.6
3+00	129.2	421.0	211.0	705.9	85.8	288.6
4+00	140.6	488.5	225.3	807.9	89.8	324.7
5+00	133.5	505.9	217.5	819.7	88.3	329.8
6+00	163.5	550.0	247.9	861.9	89.1	347.1
7+00	156.1	585.6	250.2	922.5	104.6	377.6
8+00	163.2	585.1	248.6	920.0	96.9	373.6
9+00	200.6	674.8	303.2	1018.8	114.6	391.9
10+00	228.7	785.0	327.1	1167.3	121.9	437.9
11+00	243.5	874.5	351.9	1257.4	129.0	464.6
12+00	189.0	801.0	275.4	1161.8	93.8	412.5
13+00	148.3	620.6	210.1	899.1	86.4	333.6
14+00	92.2	440.1	156.4	678.3	63.1	276.8
15+00	93.6	339.6	159.4	582.7	60.1	244.7
16+00	128.8	409.0	190.7	647.6	72.2	281.0
17+00	129.8	479.2	208.2	733.2	83.5	288.2
18+00	107.2	431.0	177.2	705.8	67.7	279.9
19+00	88.8	360.4	151.5	607.8	63.6	243.2
20+00	105.2	359.8	162.7	581.9	68.0	243.8
21+00	195.5	573.4	166.0	609.5	89.6	254.9
22+00	161.3	683.5	149.1	583.4	80.5	240.9
23+00	152.8	590.8	148.8	552.7	59.3	221.8
24+00	152.9	552.0	142.8	542.7	55.7	213.0
25+00	122.0	498.5	145.1	534.2	60.9	216.1
26+00	212.5	602.2	201.5	641.4	86.3	272.5
27+00	288.1	918.7	211.5	764.2	81.2	310.1
28+00	284.1	1078.1	200.7	763.4	82.2	302.8
29+00	112.2	734.0	117.1	588.4	45.9	237.1
30+00	208.8	594.4	136.2	487.1	53.5	184.0
31+00	204.7	765.6	208.4	832.5	90.4	286.4
32+00	192.8	763.8	173.7	704.2	73.1	302.8
33+00	92.3	550.7	168.5	634.3	70.0	285.2
34+00	86.8	333.3	156.7	602.8	83.6	247.9
35+00	97.2	340.3	169.0	603.1	89.6	247.0
36+00	82.2	332.3	152.0	594.5	64.2	247.8
37+00	58.2	259.5	117.8	499.4	45.3	202.7
38+00	47.0	193.2	103.5	409.5	39.0	158.0
39+00	54.5	186.0	118.4	411.1	47.6	180.3
40+00	47.1	188.2	107.1	417.6	41.7	165.4
41+00	159.8	383.0	95.6	375.3	36.3	142.8
42+00	158.0	588.5	82.5	528.7	26.0	113.4
43+00	143.7	567.5	91.5	522.1	34.5	112.0
44+00	35.1	354.8	88.7	334.0	31.4	122.1
45+00	118.2	280.4	193.7	522.8	79.3	205.0
46+00	144.1	482.0	229.2	763.2	91.8	316.9
47+00	141.8	529.3	224.2	836.8	91.2	339.0
48+00	137.9	517.8	212.9	822.5	88.6	333.1
49+00	83.9	410.7	192.4	763.8	83.6	319.0
50+00	0.0	155.3	0.0	356.3	0.0	154.9
50+29	0.0	0.0	0.0	0.0	0.0	0.0
End Area Code						
Subtotal		25,398		33,151		13,223

AREA	ROADWAY, HABITAT AREAS, DRAINAGE, PARK & MISC. EARTHWORK					
	GRADING (CUT)					
	COMMON EXCAVATION			GRADING (FILL)		
	DRY (>21')	WET (14'<X<21')	SATURATED (<14')	COMMON FILL		STRUCTURAL FILL
"Vol. (CY)"	"Vol. (CY)"	"Vol. (CY)"	"Vol. (CY)"	"Vol. (CY)"	"Vol. (CY)"	
A (NORTH)	29,356	7,811	0	3	0	
BARB #1	1,179	1,179	1,571	0	0	
BARB #2	1,179	1,179	1,571	0	0	
BARB #3	1,179	1,179	1,571	0	0	
A (SOUTH)	83,204	4,989	0	1,547	0	
B	145,118	14,807	0	5,726	0	
D	10,597	2,680	0	515	0	
VD PARK	4,300**	0	0	71,506	48,315**	
SW DEPRESSION	579	0	0	40	0	
EXISTING RIPRAP REMOVAL	400	180	0	580	0	
RIP & LEVEE DRAINAGE	432	0	0	1,630	0	
PARK ACCESS & PSE	28	0	0	8,100	7,050	
BOAT LAUNCH RAMP	1,125	260	0	50	0	
RR & PARKING AREA	414	0	0	2,040	1,930	
UTILITY TRENCHING	1,130	0	0	1,530	0	
UTILITY KING PRELOAD	2,503	0	0	2,503	0	
LEVEE (WATERSIDE BERMS)	0	0	0	4,019	0	
INSPECTION TRENCH	3,383	0	0	3,383	0	
RAMP #1	0	0	0	110	0	
RAMP #2	0	0	0	420	0	
RAMP #3	0	0	0	192	0	
RAMP #4	0	0	0	88	0	
RAMP #5	0	0	0	82	0	
RAMP #6	0	0	0	130	0	
RAMP #7	0	0	0	87	0	
4" STRIPPING (LEVEE)	5,002	0	0	0	0	
2" UNSUITABLE EXCAV. (LEVEE)	250	0	0	0	0	
SUBTOTAL	291,316	34,274	4,713	102,708	57,285	

* THE 1,830 CY OF FILL FOR THE RR & PARKING AREA INCLUDES 283 CY OF SELECT AND 123 CY OF LOW PERMEABLE FILL FOR THE LEVEE FILL CROSSING BELOW THE RUSSELL ROAD IMPROVEMENTS. THIS SECTION OF THE FILL IS CONSIDERED A LEVEE AND MUST MEET THE ZONING REQUIREMENTS REFLECTED IN THE PLANS AND SPECIFICATIONS. THE CUT LEVEE SHELLE ZONE OF COMMON FILL IS SELECT FILL FOR THIS LOCATION ONLY.

** THE 4,300 CY OF CUT FOR VAN DOREN'S PARK REFLECTS THE ESTIMATED AMOUNT OF MATERIAL REMOVED FROM THE 18 INCHES OF PRELOAD OVERBUILD AFTER FINISH GRADING OF THE PARK POST SETTLEMENT. THE 48,315 CY OF STRUCTURAL FILL REFLECTS THE TOP 3 FEET OF STRUCTURAL FILL PLACED FOR THE FULL AREA OF VD PARK AND INCLUDES THE MATERIAL TO PRELOAD BY OVERBUILDING THE VD PARK AREA.

NOTES:

1. ALL EARTHWORK VALUES ARE BASED ON IN SITU VOLUMES AND DO NOT REFLECT SHRINKAGE DO TO FILL COMPACTION OR BULKING FROM EXCAVATION.
2. LEVEE END AREA VOLUMES ONLY REFLECT FILL ASSOCIATED WITH THE LEVEE PRISM AND DO NOT INCLUDE RAMP AND WATERSIDE BERM VOLUMES.

CSBC, AMENDED SOIL & OTHER MISC. EARTHWORK			
AREA	VOLUME	UNIT	MATERIAL TYPE
HABITAT AREAS (A NORTH & A SOUTH, B, & D)	5,846	CY	COMPOST
DRAINAGE SWALES (ALL)	361	CY	COMPOST
PSE (SLOPES)	154	CY	COMPOST
BOAT LAUNCH RAMP (SLOPES)	35	CY	COMPOST
GR TRAIL PARKING & RR (SLOPES)	82	CY	COMPOST
LEVEE & RAMPS (SLOPES)	1,853	CY	COMPOST
LEVEE (CROWN PATROL ROAD)	5,419	TN	CSBC
LEVEE (RAMPS)	423	TN	CSBC
GR TRAIL PARKING AND MISC. TRAILS OUTSIDE PARK	9,200	TN	CSBC
BOAT LAUNCH RAMP	195	TN	CSBC
VD PARK (PARKING AREA & TRAILS INSIDE PARK)	2,114	TN	CSBC
VD PARK (DRAINAGE RETENTION AREAS)	830	CY	BIORETENTION SOIL

SURVEY JOB NO./SCALE:					
DRAWN:					
CAD DRAWN:	RD	11/18			
DESIGNED:	WR	11/18	MAIL	REVISION	BY DATE
CHECKED:	JF	11/18			
SUPERVISOR:	SL	11/18			
	MAIL		RECORD CHANGES APPROVED	BY	DATE

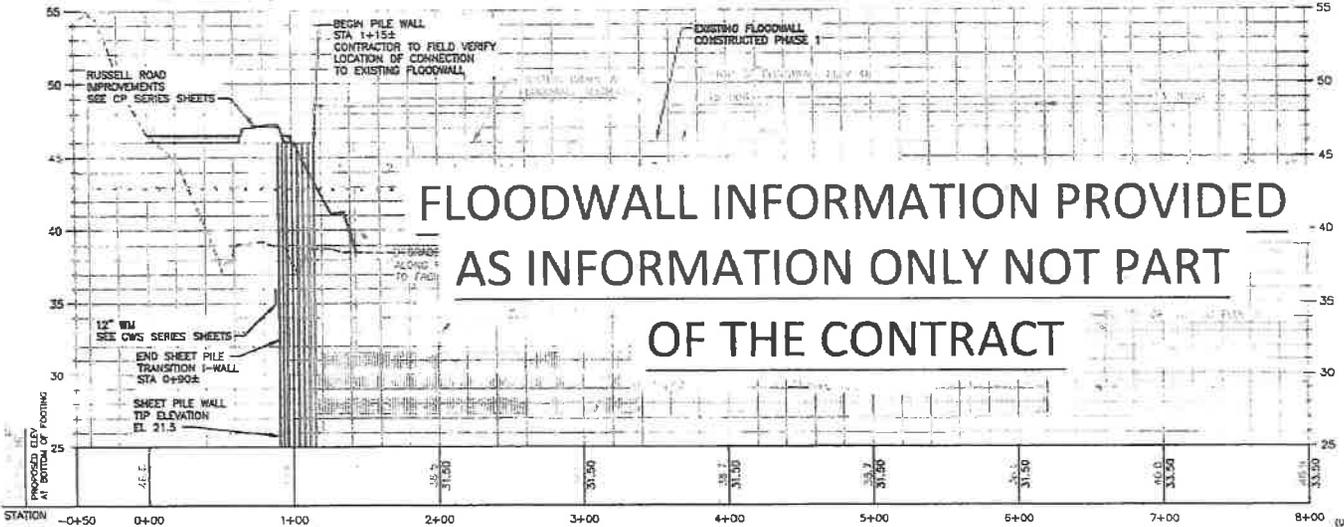
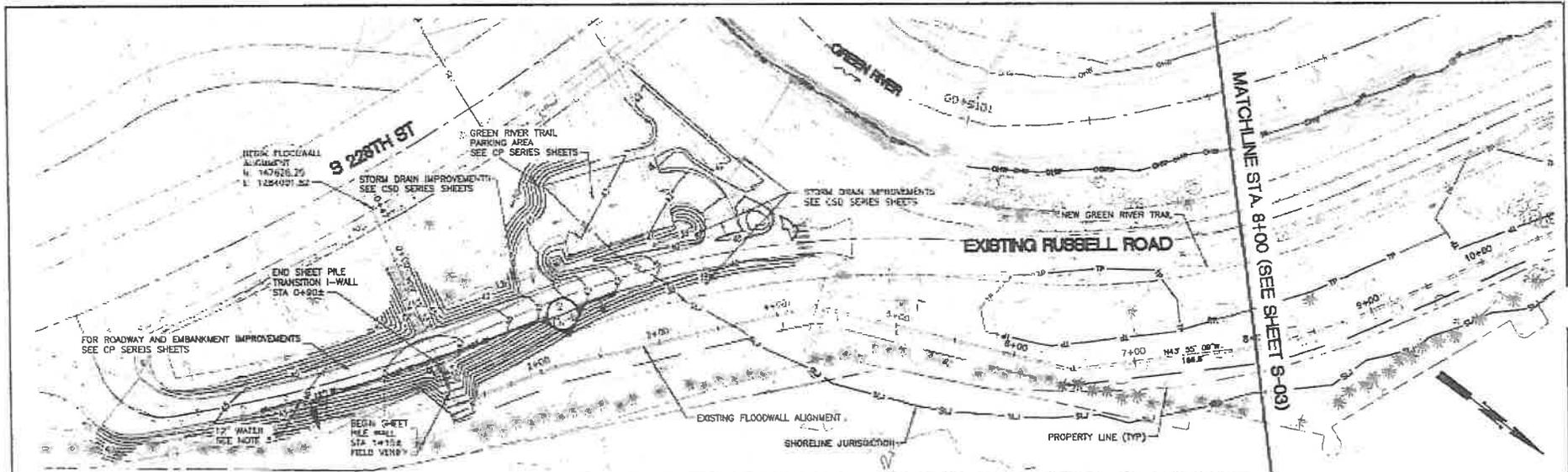
FUNDING:	
PROJECT No.	1112056
CONTRACT No.	C01415C20



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Toss, Director

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5655
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
Know what's below. Call before you dig.
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
EARTHWORK TABULATION TABLES
SHEET T-02





**FLOODWALL INFORMATION PROVIDED
AS INFORMATION ONLY NOT PART
OF THE CONTRACT**

- NOTES:
1. FOR FLOODWALL TO SHEET PILE I-WALL TRANSITION DETAILS SEE S-07 AND CL-20.
 2. ROADWAY IMPROVEMENTS SEE SHEETS CP-01 TO CP-06.
 3. FOR WATERLINE INSTALLATION SEE "CWS" SERIES SHEETS. CONTRACTOR TO PROTECT WATERMAIN IN PLACE DURING SHEET PILE INSTALLATION.



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
Know what's below.
Call before you dig.

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
FLOODWALL TO I-WALL
PLAN AND PROFILE
STA 0+00 TO 8+00

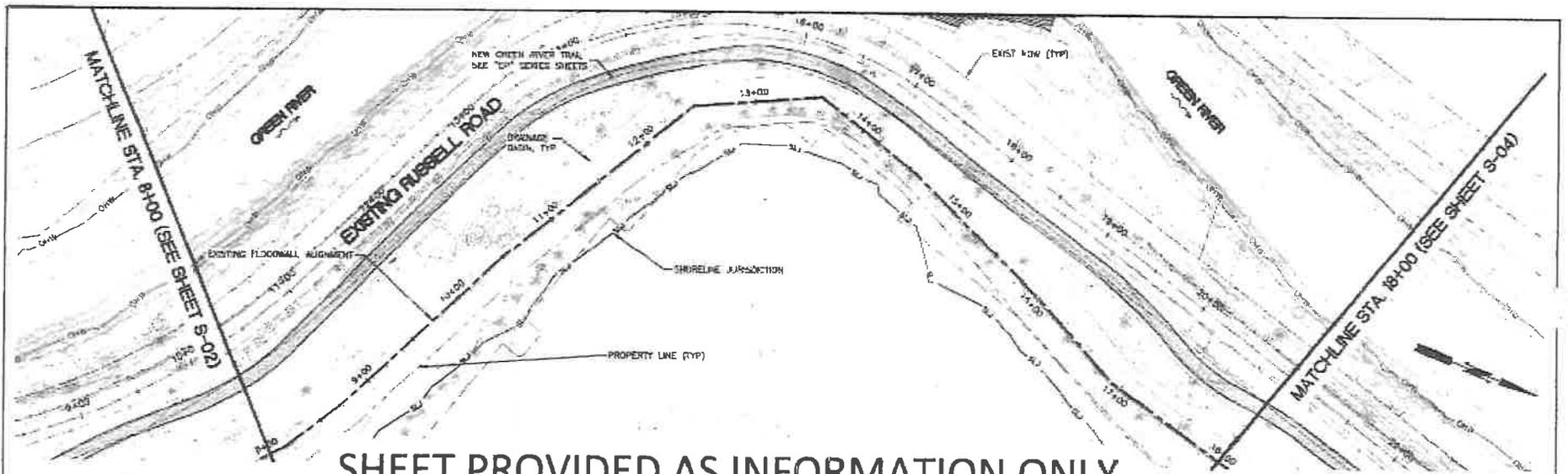
SHEET
S-02

SURVEY JOB NO./SOURCE	DESIGNED BY	DATE	REVISION	BY	DATE
RD 10/19	VR 10/19				
DESIGNED BY	YU 10/19				
CHECKED BY	SJ 10/19				
SUPERVISOR					
REVISION	RECORD CHANGES APPROVED	BY	DATE		

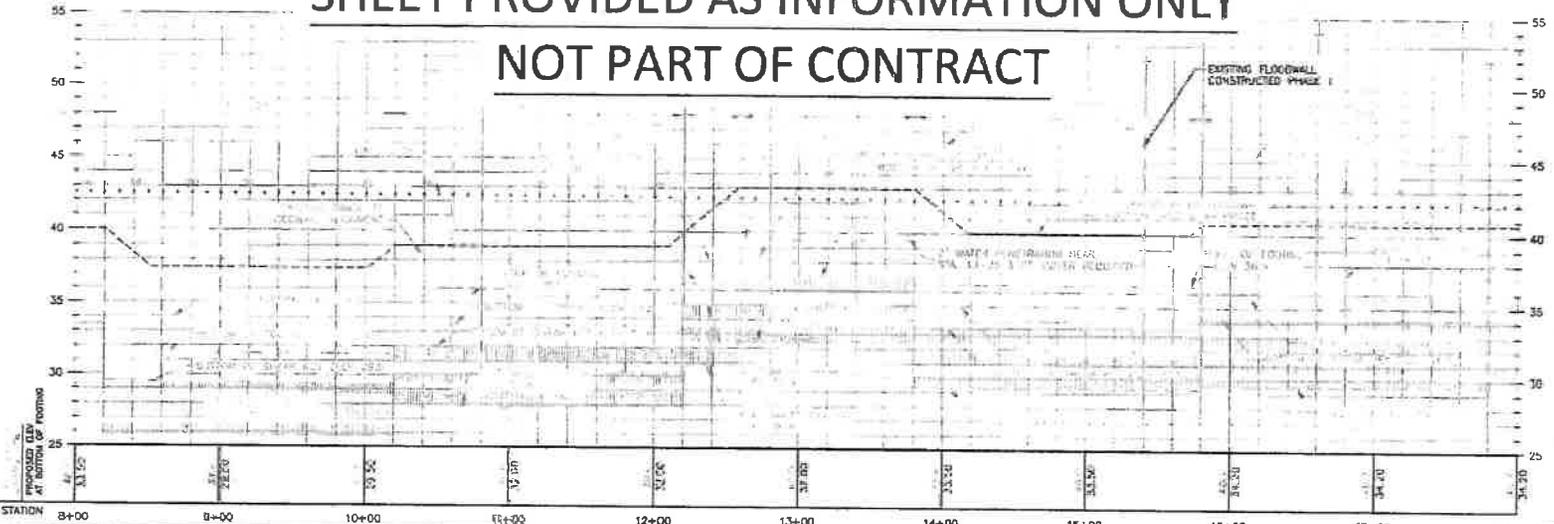
FUNDING: _____
PROJECT No. 1117028
CONTRACT No. C01415C20



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

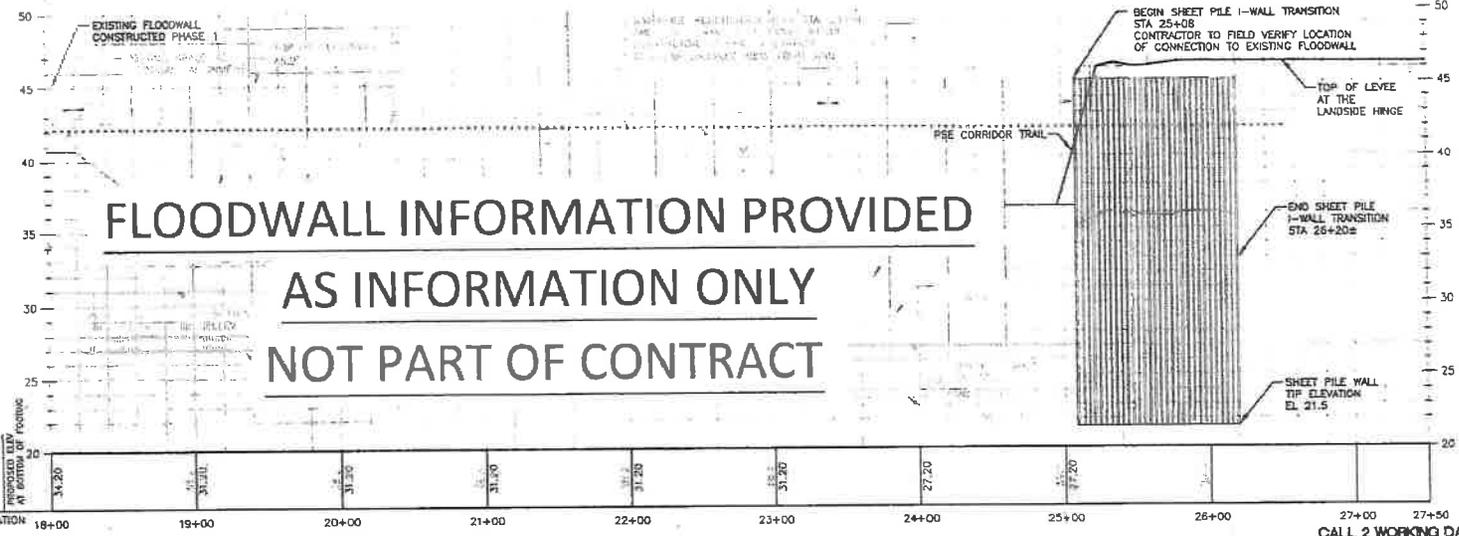
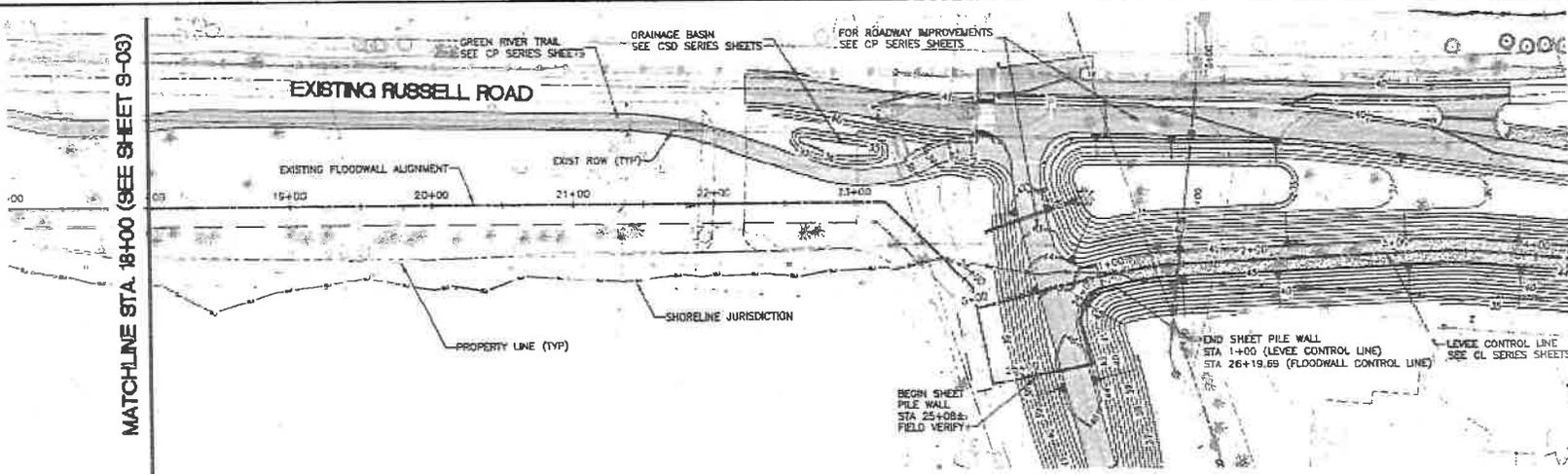


**SHEET PROVIDED AS INFORMATION ONLY
NOT PART OF CONTRACT**



811
Know what's below.
Call before you dig.
CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./SECTION: _____ CHECKED: _____ CAD DIVERSED: RO 11/19 DESIGNED: SR 11/19 CHECKED: WJ 11/19 SUPERVISOR: SJ 11/19	FUNDING: _____ PROJECT No. 1112055 CONTRACT No. C01415C20		 HDR Engineering Inc.	 King County Department of Natural Resources and Parks Water and Land Resources Division River and Floodplain Management Section Christie Trice, Director	LOWER RUSSELL LEVEE SETBACK PROJECT PHASE 2 EXISTING FLOODWALL PLAN AND PROFILE STA 8+00 TO 18+00	SHEET S-03																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>STATION</th> <th>8+00</th> <th>9+00</th> <th>10+00</th> <th>11+00</th> <th>12+00</th> <th>13+00</th> <th>14+00</th> <th>15+00</th> <th>16+00</th> <th>17+00</th> <th>18+00</th> </tr> <tr> <td>PROPOSED FLOODWALL PROFILE</td> <td>44.5</td> <td>42.0</td> <td>40.5</td> <td>38.0</td> <td>37.0</td> <td>37.0</td> <td>37.0</td> <td>37.0</td> <td>37.0</td> <td>37.0</td> <td>37.0</td> </tr> <tr> <td>EXISTING FLOODWALL CONSTRUCTED PROFILE</td> <td>44.5</td> <td>42.0</td> <td>40.5</td> <td>38.0</td> <td>37.0</td> <td>37.0</td> <td>37.0</td> <td>37.0</td> <td>37.0</td> <td>37.0</td> <td>37.0</td> </tr> </table>		STATION	8+00	9+00	10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00	18+00	PROPOSED FLOODWALL PROFILE	44.5	42.0	40.5	38.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	EXISTING FLOODWALL CONSTRUCTED PROFILE	44.5	42.0	40.5	38.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0				
STATION	8+00	9+00	10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00	18+00																														
PROPOSED FLOODWALL PROFILE	44.5	42.0	40.5	38.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0																														
EXISTING FLOODWALL CONSTRUCTED PROFILE	44.5	42.0	40.5	38.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0																														



**FLOODWALL INFORMATION PROVIDED
AS INFORMATION ONLY
NOT PART OF CONTRACT**

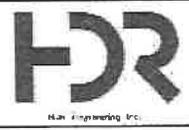
- NOTES:**
1. FOR FLOODWALL TO SHEET PILE I-WALL TRANSITION DETAILS SEE S-07.
 2. FOR I-WALL LAYOUT/GEOMETRY SEE SHEET S-08.

SURVEY JOB NO./SCALE:					
CHECKED:					
CAD ENHANCED:	RD	10/19			
DESIGNED:	WR	10/10	HUM.	REVISION	BY DATE
CHECKED:	WJ	10/17			
SUPERVISOR:	SJ	10/19			
FINAL			ISSUED CHANGES APPROVED	BY	DATE

PLACING:

PROJECT No. **1118050**

CONTRACT No. **C01415C20**



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christa Traas, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
FLOODWALL TO I-WALL
PLAN AND PROFILE
STA 18+00 TO 26+41**

SHEET
S-04



**CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555**
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

Know what's below.
Call before you dig.

TOP OF STEEL SHEET PILE
I-WALL TRANSITION
EL.46.0'

NO. WALL TO CLOSURE JOINT
SHOWN TO DETAIL - SEE SHEET S-05

P.O.B. STA. 1+15 FIELD VERIFY

1ST SECTION OF
SHEET PILE INSTALLED
IN PHASE 1

ALL WALL CORNER JOINTS
TO BE MADE UP TO FACE
OF MONOLITH - SEE SECTION DETAILS
REF. S-7 FOR SECTION DETAILS

WET SIDE

DRY SIDE

FLOODWALL MONOLITH 1 - 5 PLAN
FULL SCALE: 3/16" = 1'



STA. 1+15.21

TOP OF STEEL SHEET
PILE I-WALL TRANSITION
EL.46.0' FIELD VERIFY

A
S-07

SHEET PILING
(PCZ-18) TIP EL.21.5'

NO. SHEET PILE TO EL. 0'
IMPLEMENTS INTO FOOTING NOT SHOWN
FOR CLARITY - SEE SECTION S-7

FLOODWALL MONOLITH 1 - 5 ELEVATION
FULL SCALE: 3/16" = 1'

SURVEY JOB NO./SOURCE:					
CHECKED:					
CAD DRAWN:	JCB	11/19			
DESIGNED:	WJ	11/19	REVISION	BY	DATE
CHECKED:	SAM	11/19			
SUPERVISOR:	SJ	11/19			
	RECORDS CHANGED	APPROVED	BY	DATE	

FORMING:
PROJECT No. 1112056
CONTRACT No. C01415C20

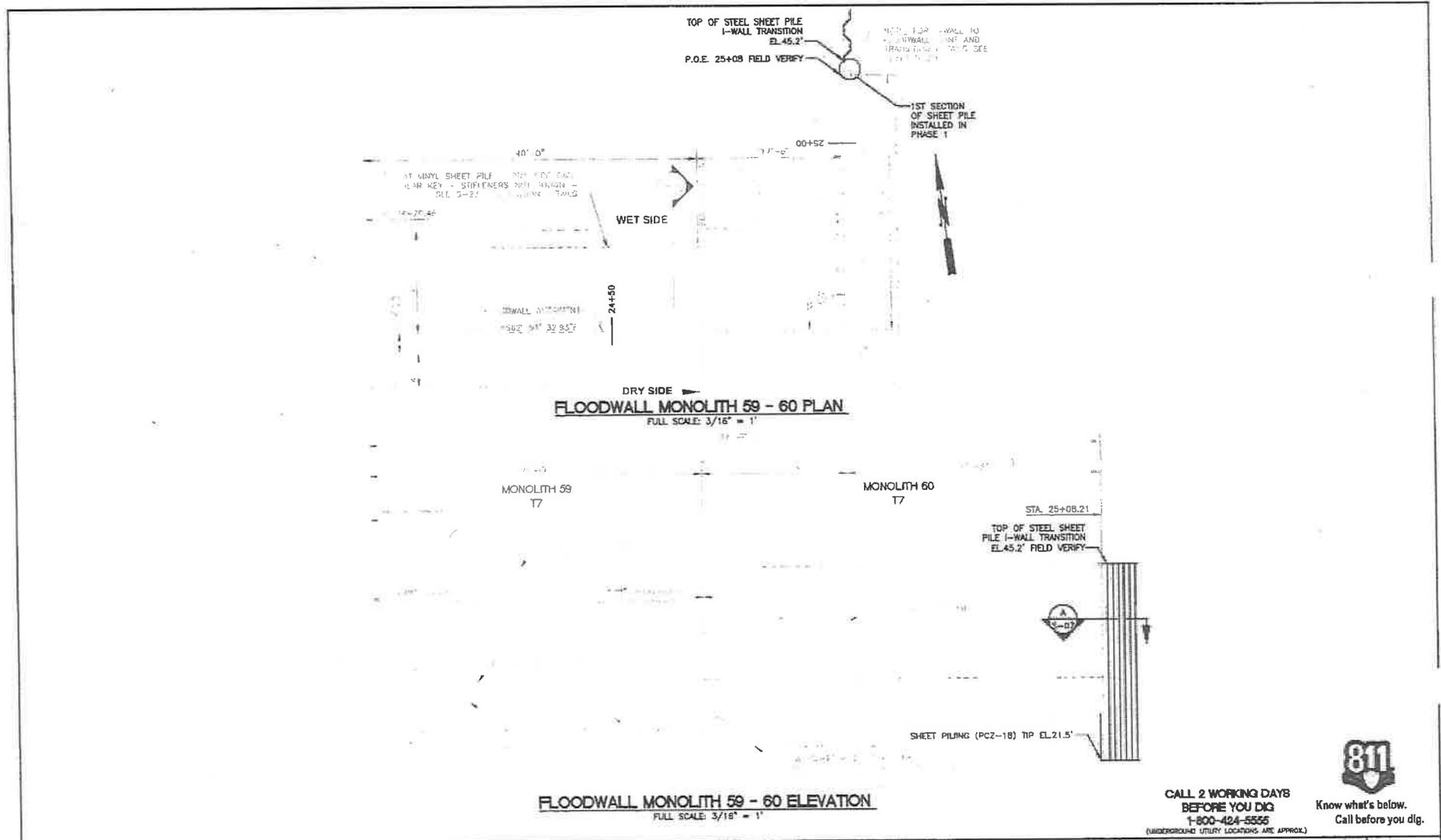


King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Trus, Director

811
CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
Know what's below.
Call before you dig.

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
**FLOODWALL MONOLITH
PLAN AND ELEVATION**
LAYOUT - 1

SHEET
S-05



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
Know what's below. Call before you dig.
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./SOURCE:					
CHECKED:					
CD DRAWN:	JCB	11/19			
DESIGNED:	WJ	11/19	TRIAL	REVISION	BY DATE
CHECKED:	SAM	11/19			
SUPERVISOR:	SJ	11/19			
	MARK		RECORD CHANGES APPROVED	BY	DATE

FUNDING:

PROJECT No. 1112056

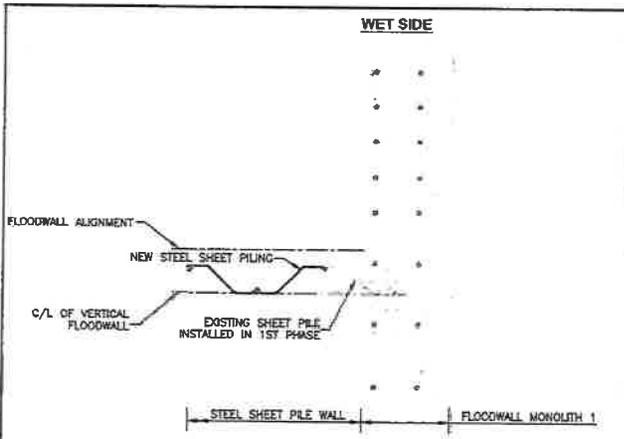
CONTRACT No. C0141SC20



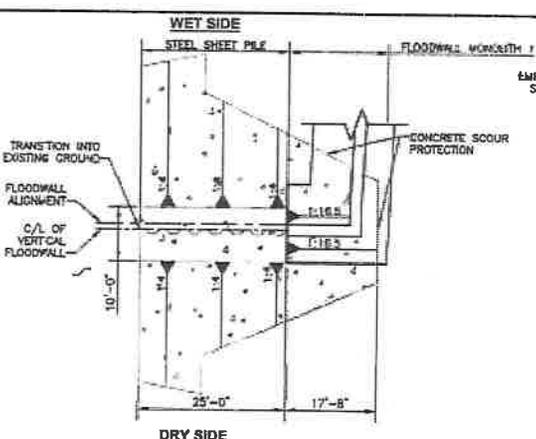
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Chelsie Tree, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
FLOODWALL MONOLITH PLAN AND ELEVATION LAYOUT - 16

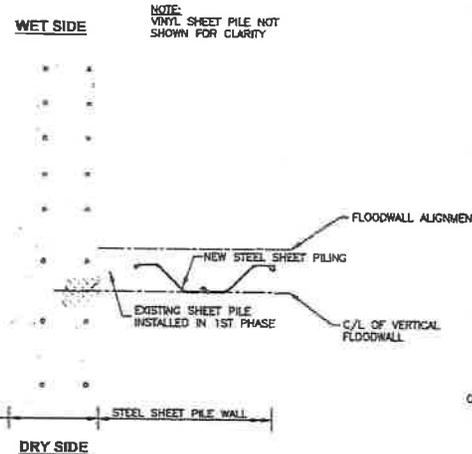
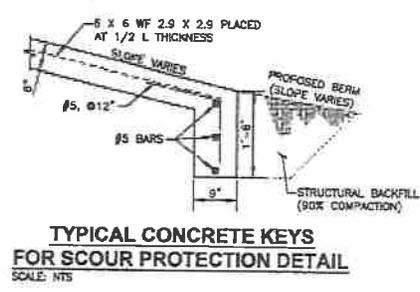
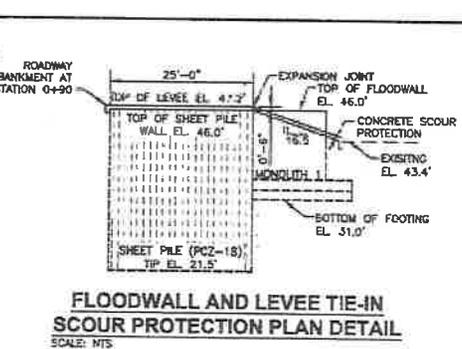
SHEET S-06



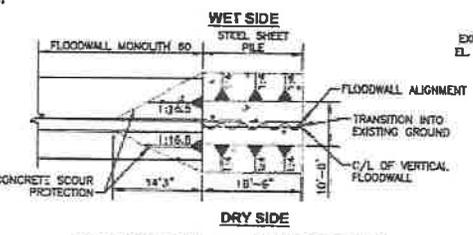
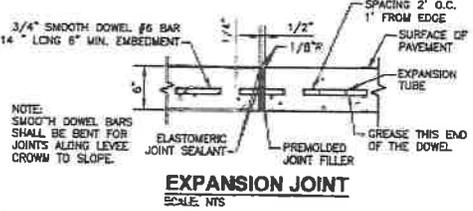
FLOODWALL AND SHEET PILE TIE IN MONOLITH 1
SCALE: NTS



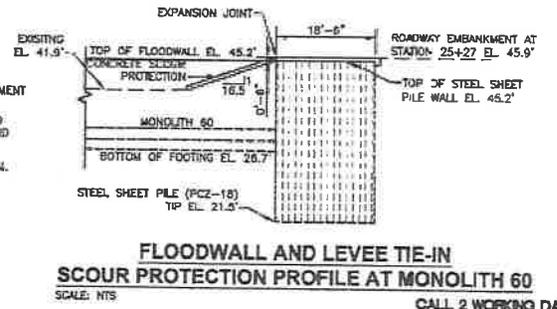
FLOODWALL AND LEVEE TIE-IN SCOUR PROTECTION PROFILE MONOLITH 1
SCALE: NTS



FLOODWALL AND SHEET PILE TIE IN MONOLITH 60
SCALE: NTS



FLOODWALL AND LEVEE TIE-IN SCOUR PROTECTION PROFILE AT MONOLITH 60
SCALE: NTS



SURVEY JOB NO./SOURCE	---								
CHECKED:	---								
DATE ENTERED:	JCB	11/19							
DESIGNED:	WJ	11/19	TRM	REVISION	BY	DATE			
CHECKED:	SAM	11/19							
SUPERVISOR:	SJ	11/19							
			TRM	RECORD CHANGES APPROVED	BY	DATE			

FUNDING: _____

PROJECT No. 1112056

CONTRACT No. C01415C20



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

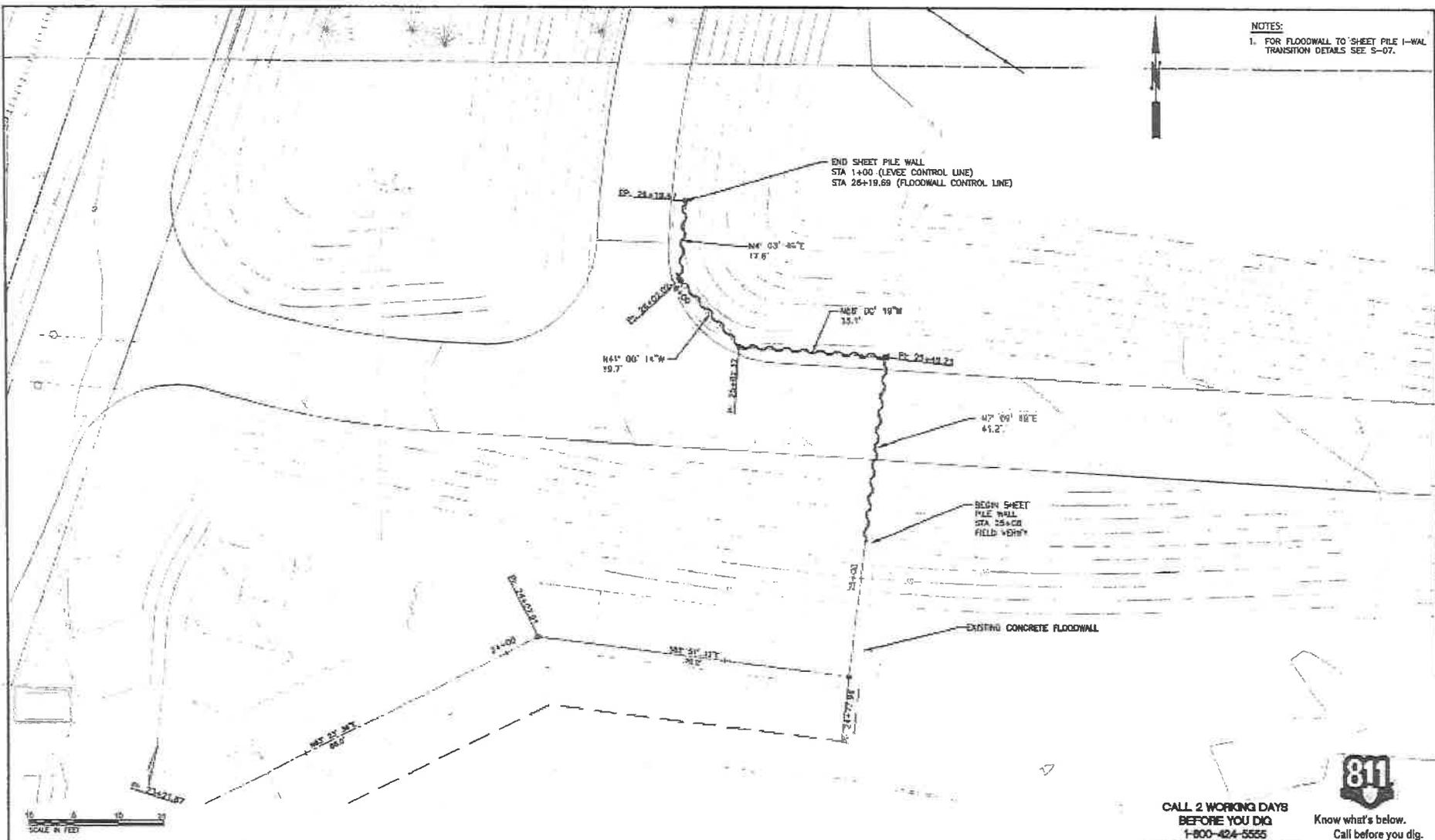
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
I-WALL TO FLOODWALL
TRANSITION DETAILS



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5535
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
Know what's below.
Call before you dig.

SHEET S-07

NOTES:
 1. FOR FLOODWALL TO SHEET PILE I-WALL
 TRANSITION DETAILS SEE S-07.



CALL 2 WORKING DAYS
 BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
 Know what's below.
 Call before you dig.

SURVEY JOB NO./SUBJECT: _____ CHECKED: _____ DAD ENTERED: JCB 11/18 DESIGNED: WJ 11/18 CHECKED: SAM 11/19 SUPERVISOR: SJ 11/19	<table border="1"> <thead> <tr> <th>NO.</th> <th>REVISION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	REVISION	BY	DATE													FINESQ: _____ PROJECT NO. 1112055 CONTRACT NO. CD1415C20
NO.	REVISION	BY	DATE															

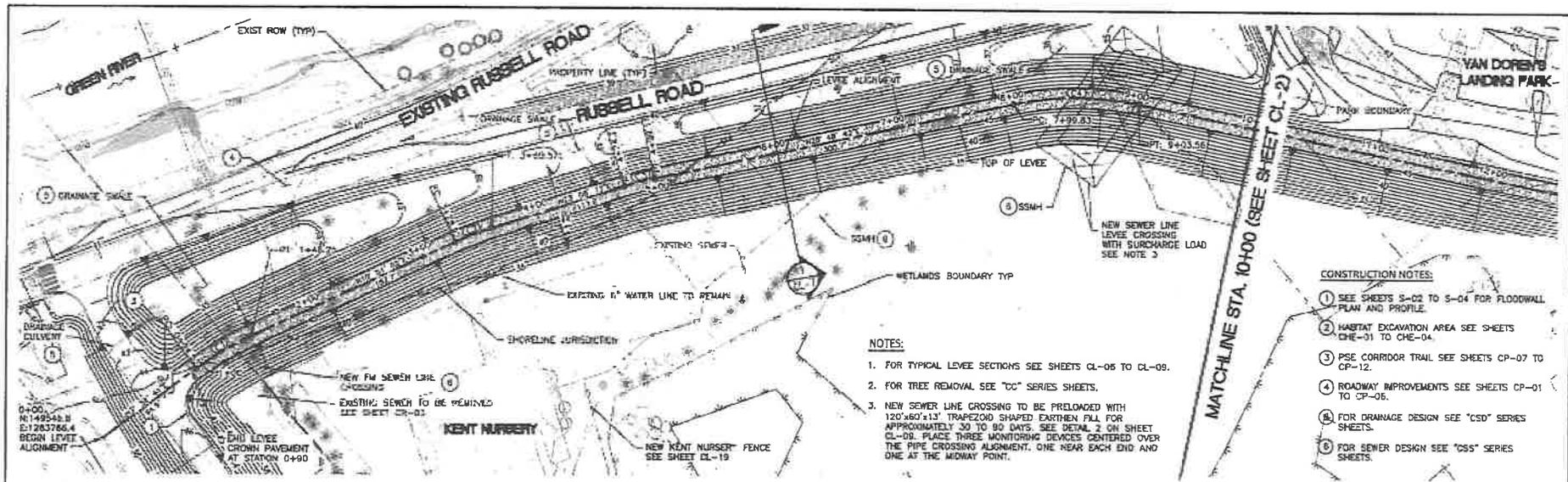

 City of Seattle
 Department of Public Works
 Flood Control Division




King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Truss, Director

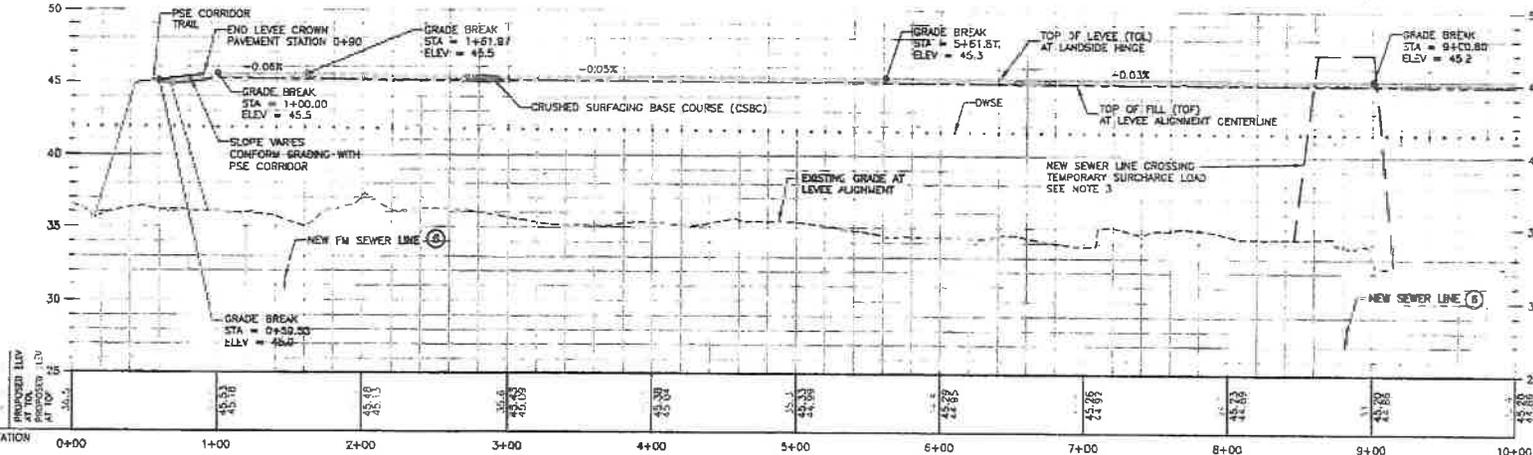
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
I-WALL
LAYOUT/GEOMETRY
 STA 25+08 TO 26+19.69

SHEET
S-08

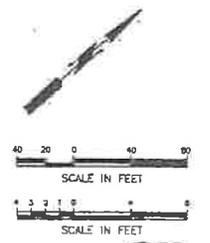


- CONSTRUCTION NOTES:**
- SEE SHEETS S-02 TO S-04 FOR FLOODWALL PLAN AND PROFILE.
 - HABITAT EXCAVATION AREA SEE SHEETS CHE-01 TO CHE-04.
 - PSE CORRIDOR TRAIL SEE SHEETS CP-07 TO CP-12.
 - ROADWAY IMPROVEMENTS SEE SHEETS CP-01 TO CP-06.
 - FOR DRAINAGE DESIGN SEE "CSD" SERIES SHEETS.
 - FOR SEWER DESIGN SEE "CSS" SERIES SHEETS.

- NOTES:**
- FOR TYPICAL LEVEE SECTIONS SEE SHEETS CL-05 TO CL-09.
 - FOR TREE REMOVAL SEE "CC" SERIES SHEETS.
 - NEW SEWER LINE CROSSING TO BE PRELOADED WITH 120"x60"x13" TRAPEZOID SHAPED EARTHEN FILL FOR APPROXIMATELY 30 TO 90 DAYS. SEE DETAIL 2 ON SHEET CL-09. PLACE THREE MONITORING DEVICES CENTERED OVER THE PIPE CROSSING ALIGNMENT, ONE NEAR EACH END AND ONE AT THE MIDWAY POINT.



No.	R	a	L	T
C1	250.00	12	51.73	51.64
C2	250.00	7	31.65	31.63
C3	250.00	5	24.91	24.90
C4	250.00	24	103.73	102.99



STATION	0+00	1+00	2+00	3+00	4+00	5+00	6+00	7+00	8+00	9+00	10+00
PROPOSED ELEV. AT TOP OF FLOODWALL	35.5	45.75	45.10	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0

CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
 Know what's below. Call before you dig.

SURVEY JOB NO./DATE			
CHECKED:			
DWG. EXTENDED:	RD	11/19	
DESIGNED:	VR	11/19	
CHECKED:	KF	11/19	
SUPERVISOR:	SJ	11/19	
REVISIONS:			

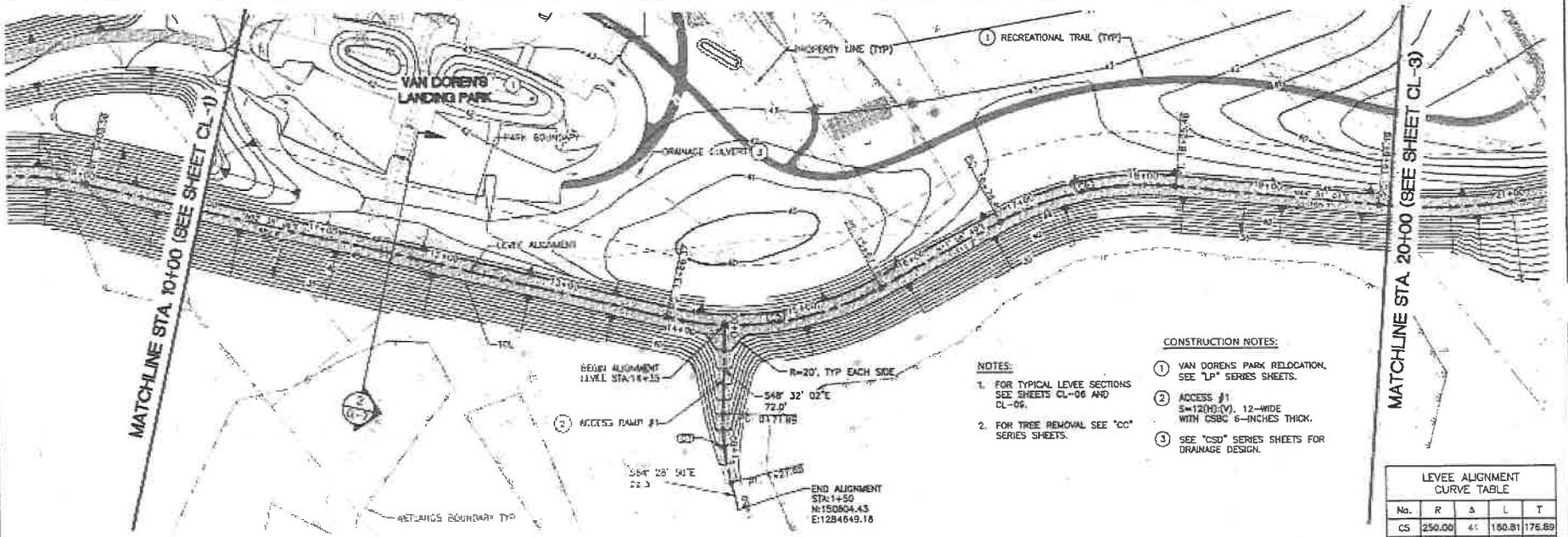
PROJECT No. 1112056
 CONTRACT No. C01415C20



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Gordon True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
PROPOSED LEVEE
PLAN AND PROFILE
 STA 0+00 TO 10+00

SHEET
CL-01



- CONSTRUCTION NOTES:**
1. VAN DORENS PARK RELOCATION. SEE "LP" SERIES SHEETS.
 2. ACCESS #1 S=12.00/100. 12-WIDE WITH CSBG 6-INCHES THICK.
 3. SEE "CSD" SERIES SHEETS FOR DRAINAGE DESIGN.

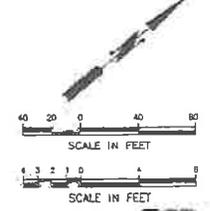
- NOTES:**
1. FOR TYPICAL LEVEE SECTIONS SEE SHEETS CL-06 AND CL-06.
 2. FOR TREE REMOVAL SEE "CC" SERIES SHEETS.

MATCHLINE STA. 20+00 (SEE SHEET CL-3)

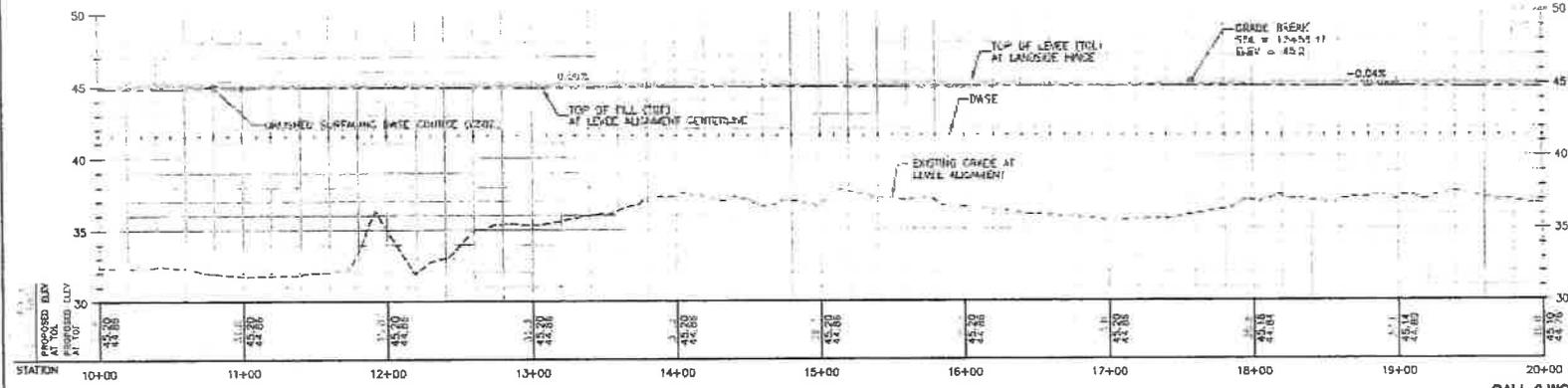
MATCHLINE STA. 10+00 (SEE SHEET CL-1)

No.	R	S	L	T
CS	250.00	45	190.81	176.89
C6	250.00	34	147.06	144.95

No.	R	S	L	T
C1	200.00	16	55.66	55.49



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
 Know what's below. Call before you dig.



SURVEY JOB NO./SOURCE:					
DRAWN:					
CAD ENTERED:	RD	11/7/18			
DRAWN:	YS	11/7/18			
CHECKED:	KF	11/7/18			
SUPERVISOR:	SV	11/14/18			
			RECORD CHANGES APPROVED	BY	DATE

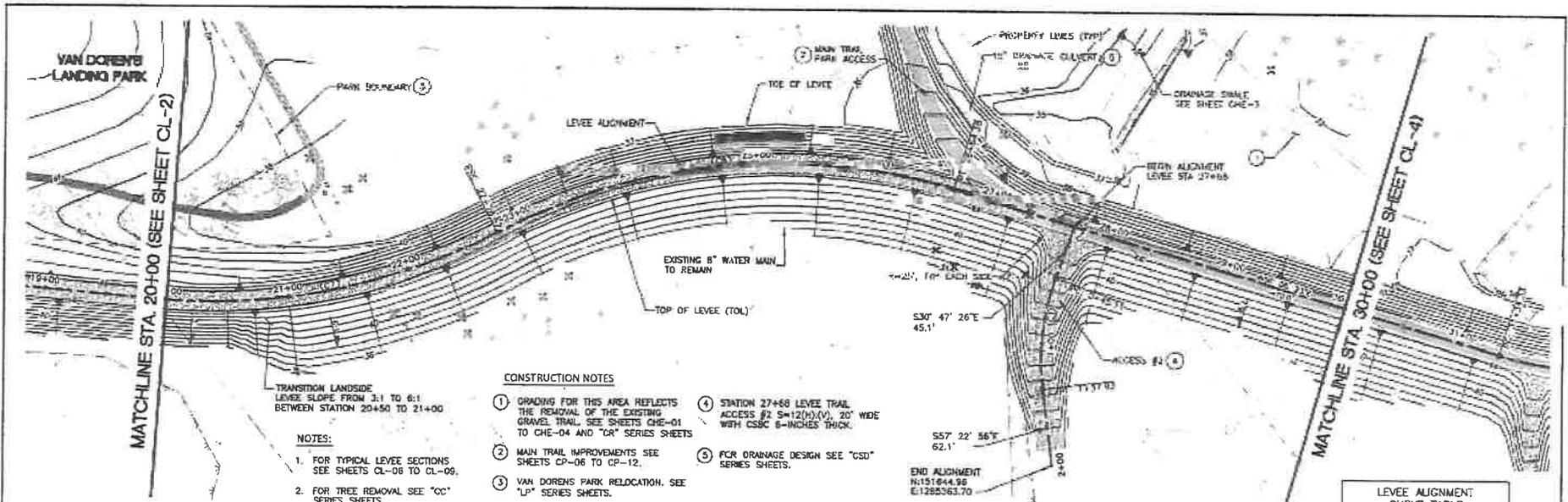
PROJECT No. 1112056
 CONTRACT No. CQ141SC20



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Trice, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PROPOSED LEVEE
PLAN AND PROFILE
 STA 10+00 TO 20+00

SHEET
CL-02

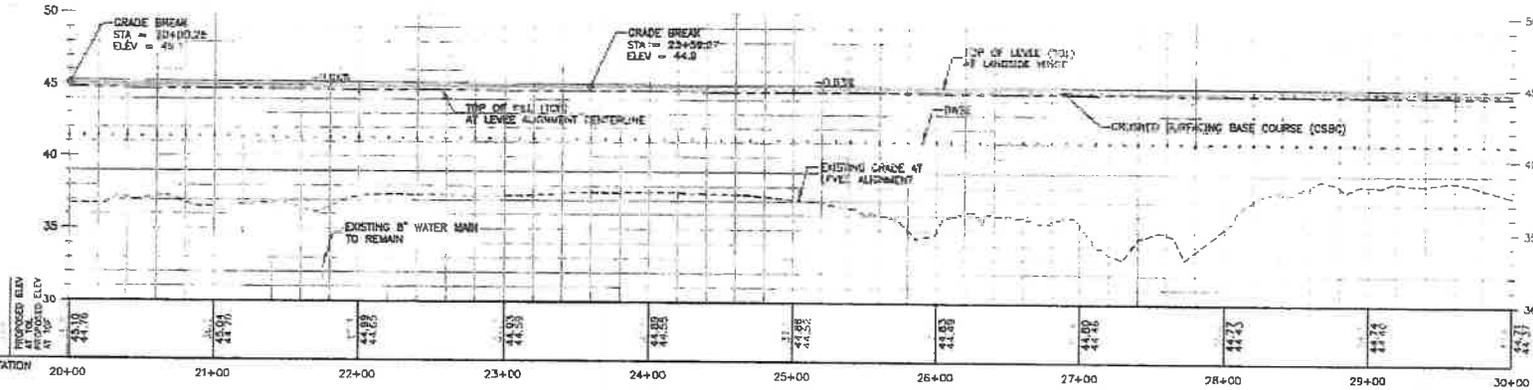


TRANSITION LANDSIDE
LEVEE SLOPE FROM 3:1 TO 6:1
BETWEEN STATION 20+50 TO 21+00

NOTES:
1. FOR TYPICAL LEVEE SECTIONS
SEE SHEETS CL-06 TO CL-09.
2. FOR TREE REMOVAL SEE "OC"
SERIES SHEETS.

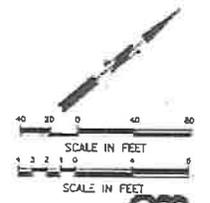
CONSTRUCTION NOTES

- ① GRADING FOR THIS AREA REFLECTS THE REMOVAL OF THE EXISTING GRAVEL TRAIL. SEE SHEETS CHE-01 TO CHE-04 AND "CR" SERIES SHEETS.
- ② MAIN TRAIL IMPROVEMENTS SEE SHEETS CP-06 TO CP-12.
- ③ VAN DORENS PARK RELOCATION. SEE "LP" SERIES SHEETS.
- ④ STATION 27+68 LEVEE TRAIL ACCESS #2 5'-12"(X)10', 20' WIDE WITH CSBC 6-INCHES THICK.
- ⑤ FCR DRAINAGE DESIGN SEE "CSD" SERIES SHEETS.



LEVEE ALIGNMENT CURVE TABLE				
No	R	Δ	L	T
C7	500.00	33	287.48	283.54
C8	500.00	44	385.71	376.22

ACCESS #2 CURVE TABLE				
No	R	Δ	L	T
C1	200.00	27	92.82	91.99



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

Know what's below.
Call before you dig.

SURVEY JOB NO./REVISION					
CHECKED					
DATE ENTERED	RD	11/18			
DESIGNED	YH	11/18	REVISION	BY	DATE
CHECKED	KF	11/18			
SUPERVISOR	SJ	11/18			
DATE			RECORD CHANGES APPROVED	BY	DATE

PLUMBING: _____

PROJECT No. 1112056

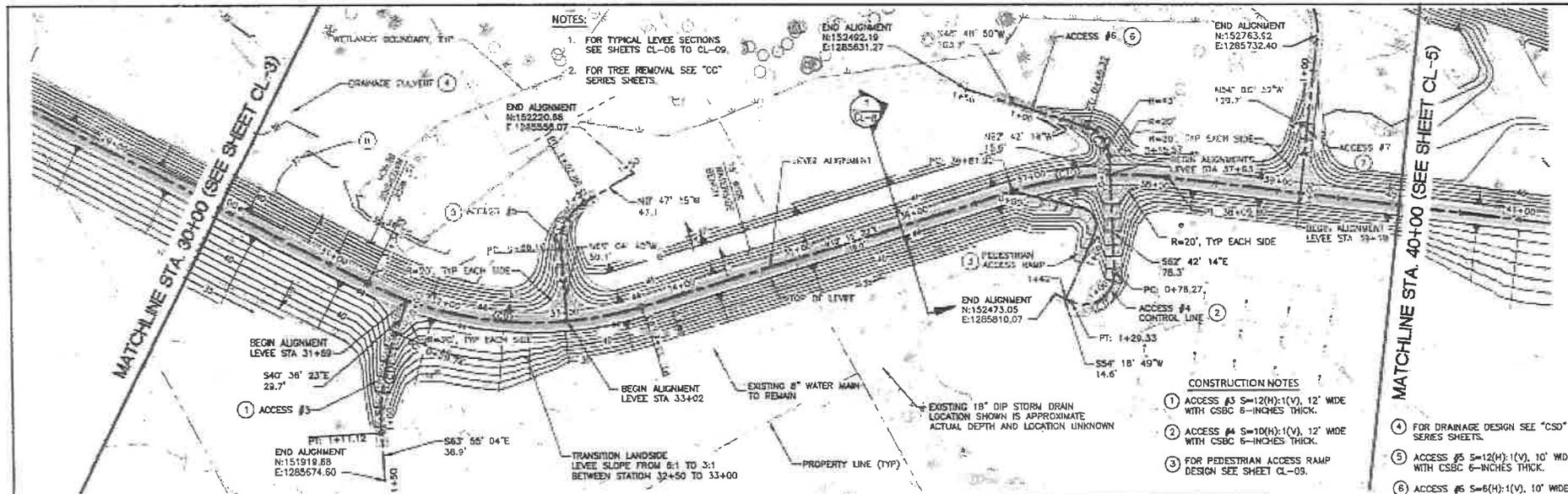
CONTRACT No. C01415C20



King County
Department of Natural Resources and Parks
Water and Floodplain Management Section
Christie Tivo, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PROPOSED LEVEE
PLAN AND PROFILE**
STA 20+00 TO 30+00

SHEET
CL-03



NOTES:

1. FOR TYPICAL LEVEE SECTIONS SEE SHEETS CL-06 TO CL-09.
2. FOR TREE REMOVAL SEE "CC" SERIES SHEETS.

CONSTRUCTION NOTES

- 1 ACCESS #3 S=12(H):1(V), 12' WIDE WITH CSBC 6-INCHES THICK.
- 2 ACCESS #4 S=10(H):1(V), 12' WIDE WITH CSBC 6-INCHES THICK.
- 3 FOR PEDESTRIAN ACCESS RAMP DESIGN SEE SHEET CL-03.

- 4 FOR DRAINAGE DESIGN SEE "CSO" SERIES SHEETS.
- 5 ACCESS #5 S=12(H):1(V), 10' WIDE WITH CSBC 6-INCHES THICK.
- 6 ACCESS #6 S=6(H):1(V), 10' WIDE WITH CSBC 6-INCHES THICK.
- 7 ACCESS #7 S=12(H):1(V), 10' WIDE WITH CSBC 6-INCHES THICK.
- 8 GRADING FOR THIS AREA REFLECTS THE REMOVAL OF THE EXISTING GRAVEL TRAIL. SEE SHEETS CHE-01 TO CHE-04 AND "CR" SERIES SHEETS.

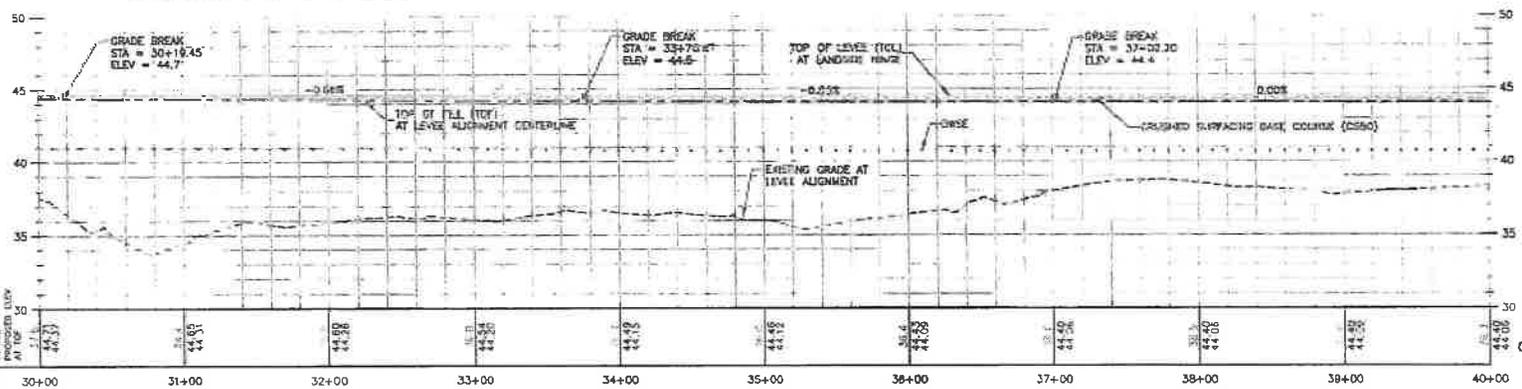
No.	R	Δ	L	T
C8	300.00	44	229.60	224.04
C10	310.00	24	127.88	126.97

No.	R	Δ	L	T
C1	200.00	23	81.37	80.81

No.	R	Δ	L	T
C1	25.00	117	51.06	42.64

No.	R	Δ	L	T
C1	39.00	64	43.76	41.50

No.	R	Δ	L	T
C1	25.00	70	30.75	28.85

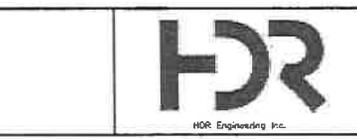


HONEY JOE HQ/SUBJECT					
DESIGNED BY	RD	11/78			
CAD INTERED BY	VR	11/78	MAN.	REVISION	BY DATE
CHECKED BY	KJ	11/78			
SUPERVISOR	SL	11/78			
			RECORD CHANGED	APPROVED	BY DATE

FUNDING: _____

PROJECT No. 1112056

CONTRACT No. CD1415C20



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Tran, Director

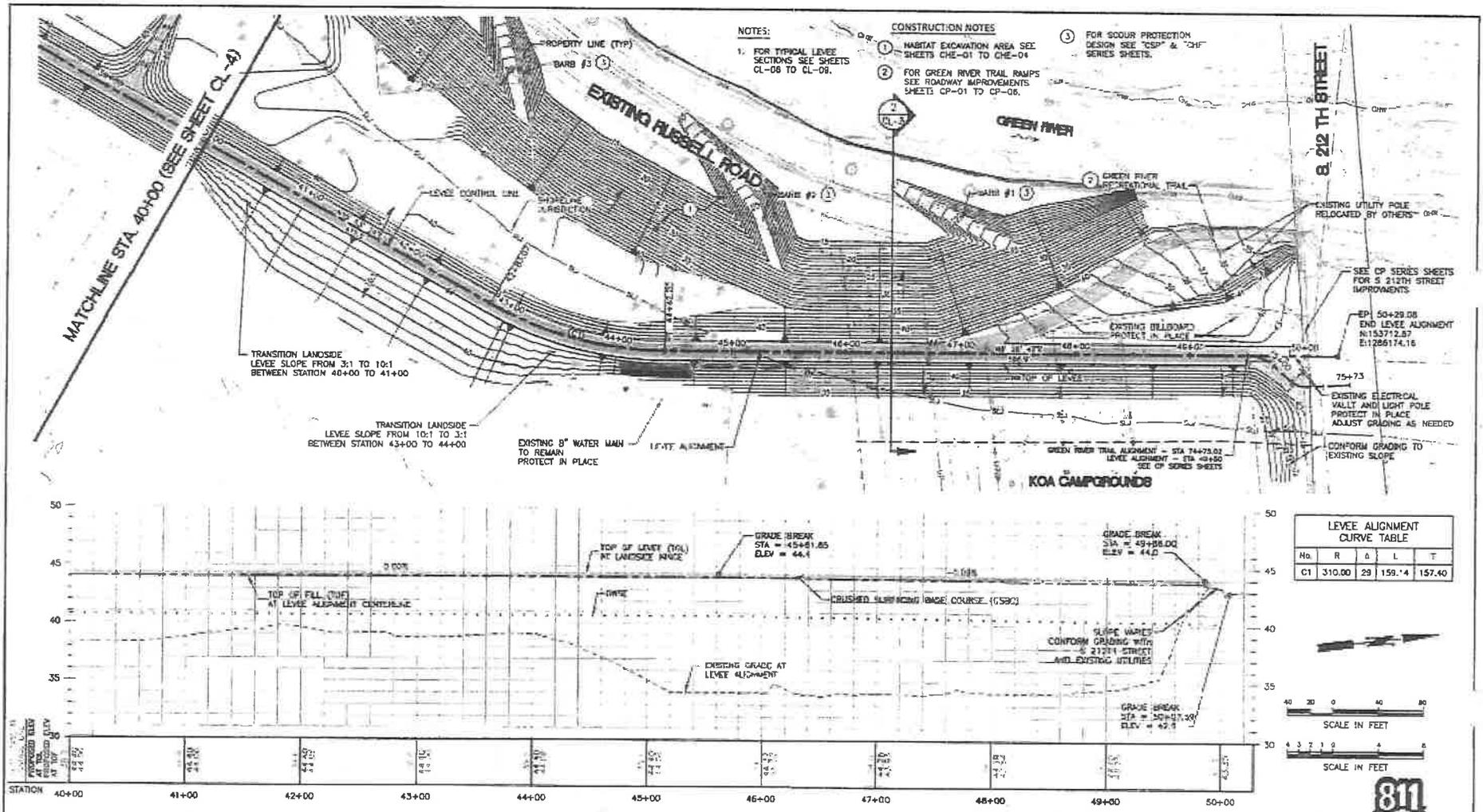
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PROPOSED LEVEE
PLAN AND PROFILE
 STA 30+00 TO 40+00

SHEET
CL-04

CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

Know what's below. Call before you dig.





- NOTES:**
- FOR TYPICAL LEVEE SECTIONS SEE SHEETS CL-08 TO CL-09.
 - FOR GREEN RIVER TRAIL RAMPS SEE ROADWAY IMPROVEMENTS SHEETS CP-01 TO CP-06.
 - FOR SCOUR PROTECTION DESIGN SEE "OSP" & "CHP" SERIES SHEETS.
- CONSTRUCTION NOTES**
- HABITAT EXCAVATION AREA SEE SHEETS CHE-01 TO CHE-04
 - FOR GREEN RIVER TRAIL RAMPS SEE ROADWAY IMPROVEMENTS SHEETS CP-01 TO CP-06.
 - FOR SCOUR PROTECTION DESIGN SEE "OSP" & "CHP" SERIES SHEETS.

DESIGNED BY	DATE	REVISION	BY	DATE
RD	11/19			
WR	11/19			
RF	11/19			
SL	11/19			
RECORD CHANGES APPROVED BY DATE				

FUNDING:

PROJECT No. 1112056

CONTRACT No. C01415C20



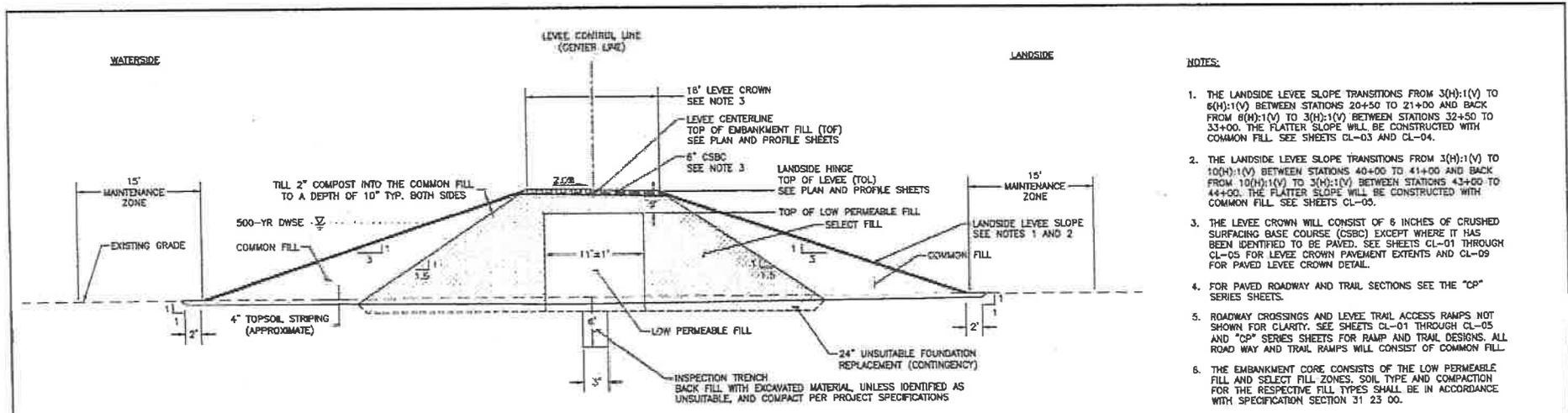
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chadler True, Director

CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

Know what's below.
 Call before you dig.

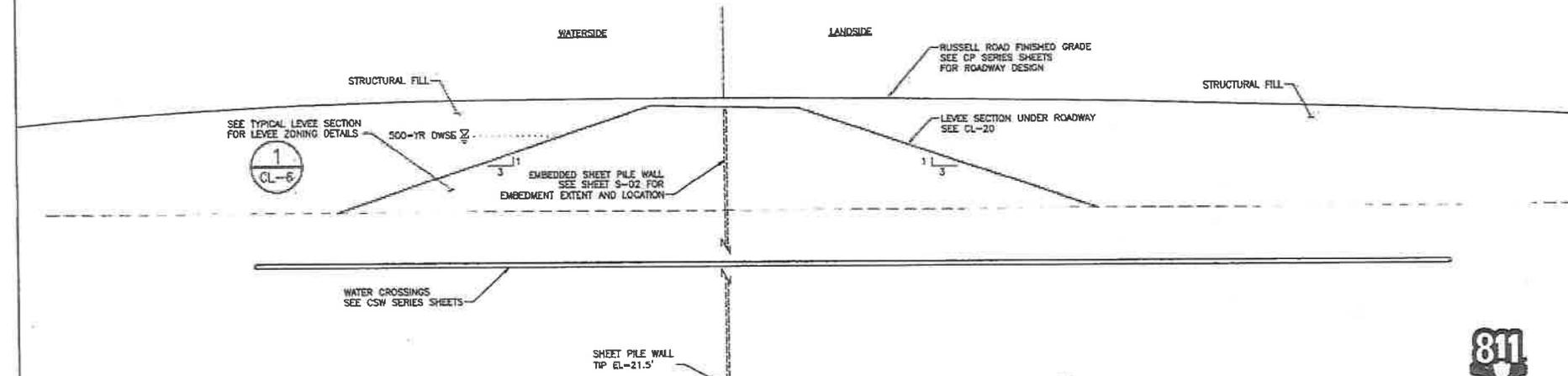
**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 PROPOSED LEVEE PLAN AND PROFILE**
 STA 40+00 TO 50+28

SHEET **CL-05**



- NOTES:**
1. THE LANDSIDE LEVEE SLOPE TRANSITIONS FROM 3(H):1(V) TO 6(H):1(V) BETWEEN STATIONS 20+50 TO 21+00 AND BACK FROM 6(H):1(V) TO 3(H):1(V) BETWEEN STATIONS 32+50 TO 33+00. THE FLATTER SLOPE WILL BE CONSTRUCTED WITH COMMON FILL. SEE SHEETS CL-03 AND CL-04.
 2. THE LANDSIDE LEVEE SLOPE TRANSITIONS FROM 3(H):1(V) TO 10(H):1(V) BETWEEN STATIONS 40+00 TO 41+00 AND BACK FROM 10(H):1(V) TO 3(H):1(V) BETWEEN STATIONS 43+00 TO 44+00. THE FLATTER SLOPE WILL BE CONSTRUCTED WITH COMMON FILL. SEE SHEETS CL-05.
 3. THE LEVEE CROWN WILL CONSIST OF 8 INCHES OF CRUSHED SURFACING BASE COURSE (CSBC) EXCEPT WHERE IT HAS BEEN IDENTIFIED TO BE PAVED. SEE SHEETS CL-01 THROUGH CL-05 FOR LEVEE CROWN PAVEMENT EXTENTS AND CL-09 FOR PAVED LEVEE CROWN DETAIL.
 4. FOR PAVED ROADWAY AND TRAIL SECTIONS SEE THE "CP" SERIES SHEETS.
 5. ROADWAY CROSSINGS AND LEVEE TRAIL ACCESS RAMPS NOT SHOWN FOR CLARITY. SEE SHEETS CL-01 THROUGH CL-05 AND "CP" SERIES SHEETS FOR RAMP AND TRAIL DESIGNS. ALL ROADWAY AND TRAIL RAMPS WILL CONSIST OF COMMON FILL.
 6. THE EMBANKMENT CORE CONSISTS OF THE LOW PERMEABLE FILL AND SELECT FILL ZONES. SOIL TYPE AND COMPACTION FOR THE RESPECTIVE FILL TYPES SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 31 23 00.

TYPICAL LEVEE SECTION 1



TYPICAL LEVEE SECTION W/RUSSELL ROAD CROSSING AT 228 STREET 2

811
Know what's below.
Call before you dig.

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./SOURCE:					
CHECKED:	RD	11/19			
DWG. INTERED:	VR	11/19	W.M.	REVISION	BY DATE
CHECKED:	KF	11/19			
SUPERVISOR:	SJ	11/19			
			W.M.	RECORD CHANGES APPROVED	BY DATE

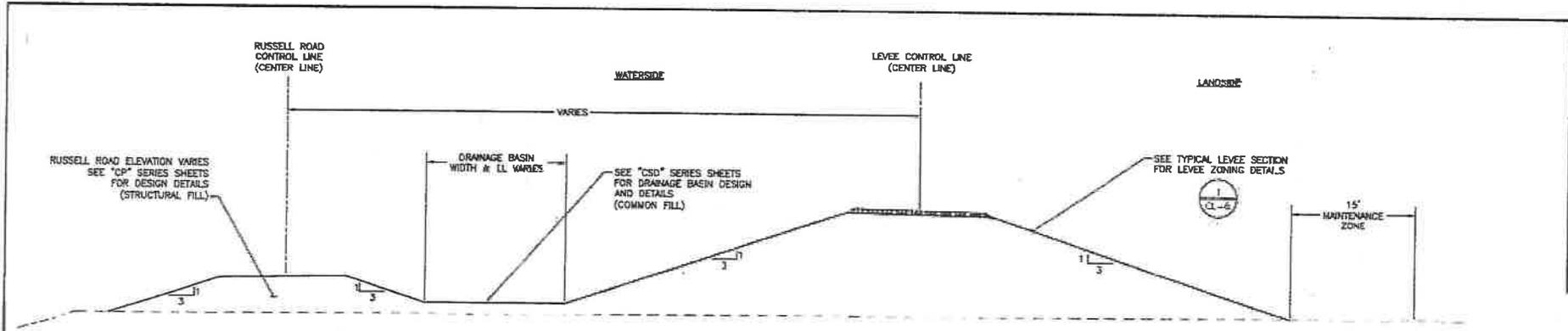
PROJECT No. 1112056
CONTRACT No. C01415C20



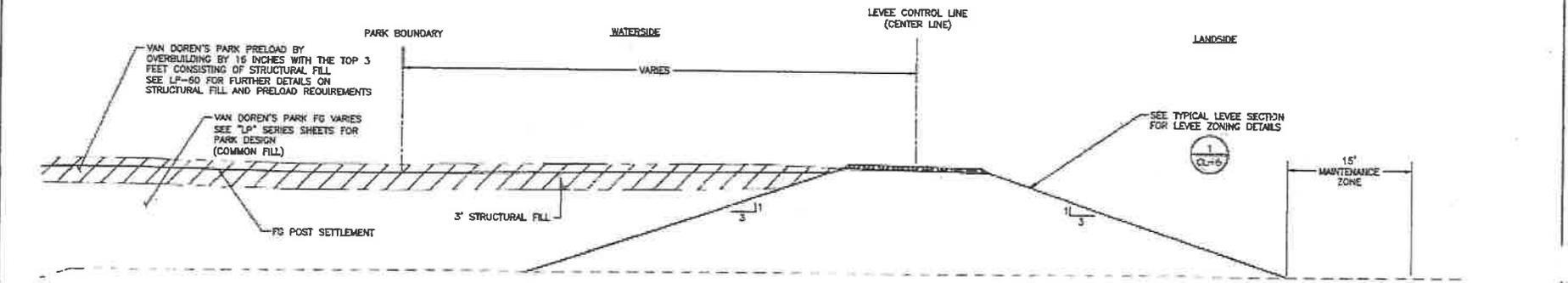
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Truu, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
TYPICAL LEVEE SECTIONS
AND DETAILS 1**

SHEET
CL-06



TYPICAL LEVEE SECTION AND RUSSELL ROAD INTERACTION (1) CL-1



TYPICAL LEVEE SECTION AND VAN DOREN'S PARK INTERACTION (2) CL-2

SURVEY JOB NO./SCALE:					
CHECKED:					
CAD DRAWN:	RD	11/19			
DESIGNED:	VR	11/19	NAME	REVISION	BY DATE
CHECKED:	KF	11/19			
SUPERVISOR:	SJ	11/19			
			NAME	RECORD CHANGES APPROVED	BY DATE

FUNDING: _____
 PROJECT No. 1112056
 CONTRACT No. C01415020



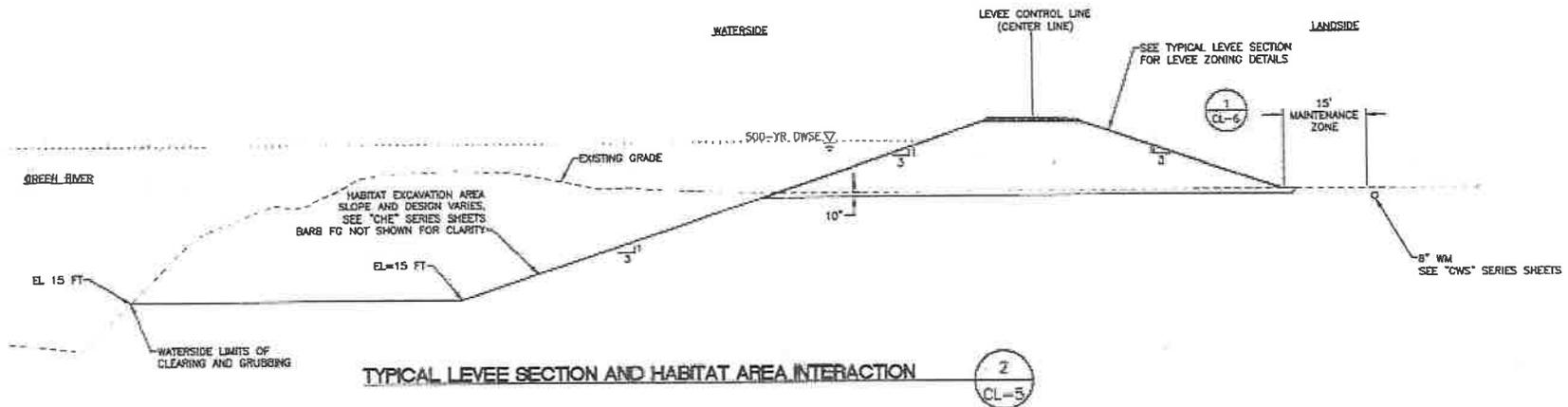
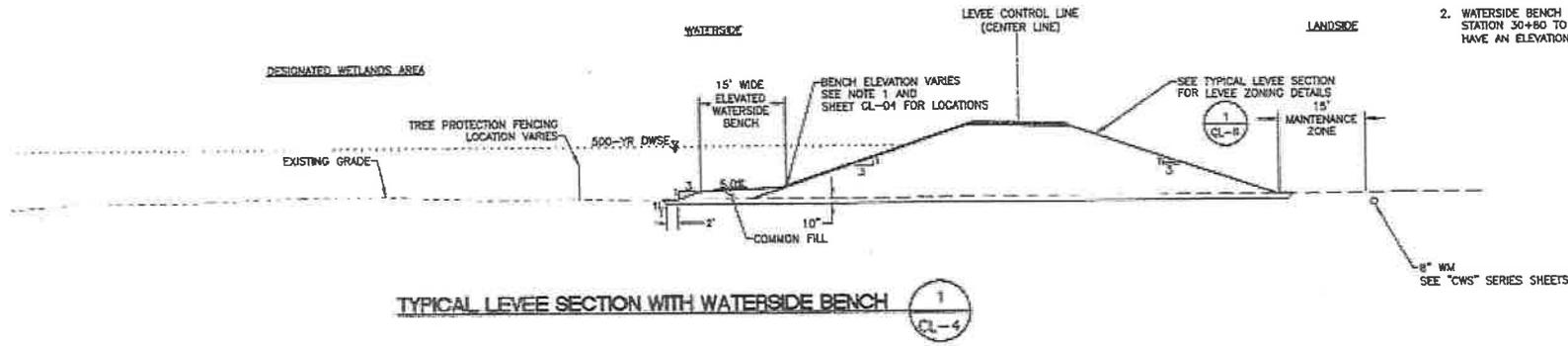
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Tzou, Director

811
 CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
 Know what's below. Call before you dig.
**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 TYPICAL LEVEE SECTIONS
 AND DETAILS 2**

SHEET
CL-07

NOTES:

1. WATERSIDE BENCH BETWEEN ACCESS #5 AND #6 TO HAVE AN ELEVATION OF 41'.
2. WATERSIDE BENCH BETWEEN STATION 30+80 TO 31+90 TO HAVE AN ELEVATION OF 37'.



CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555

Know what's below.
Call before you dig.

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
TYPICAL LEVEE SECTIONS
AND DETAILS 3

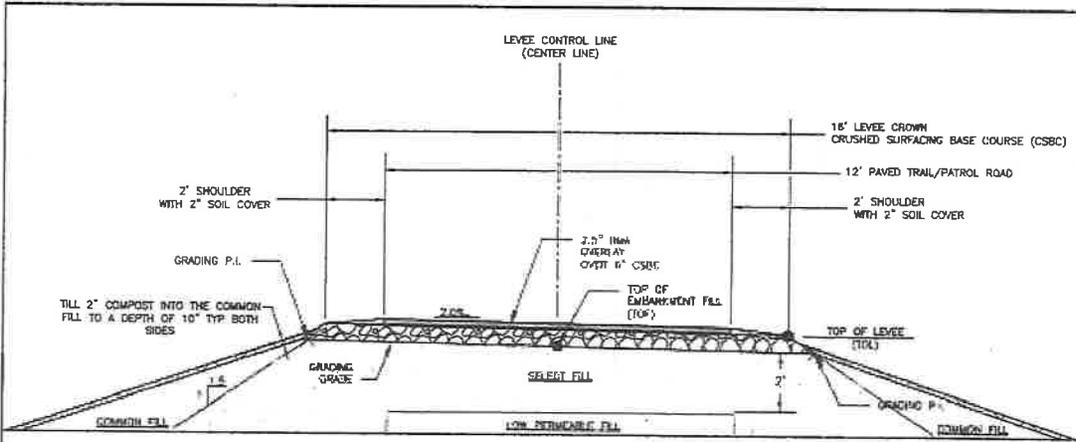
SHEET
CL-08

SHAWNEY JOB NO./SOURCE					
CHECKED:	RD	11/19			
CAD DRAWN:	VR	11/19	HWL	REVISION	BT GWR
CHECKED:	KF	11/19			
SUPERVISOR:	SJ	11/10			
	HWL		RECORD CHANGES APPROVED	BT	GWR

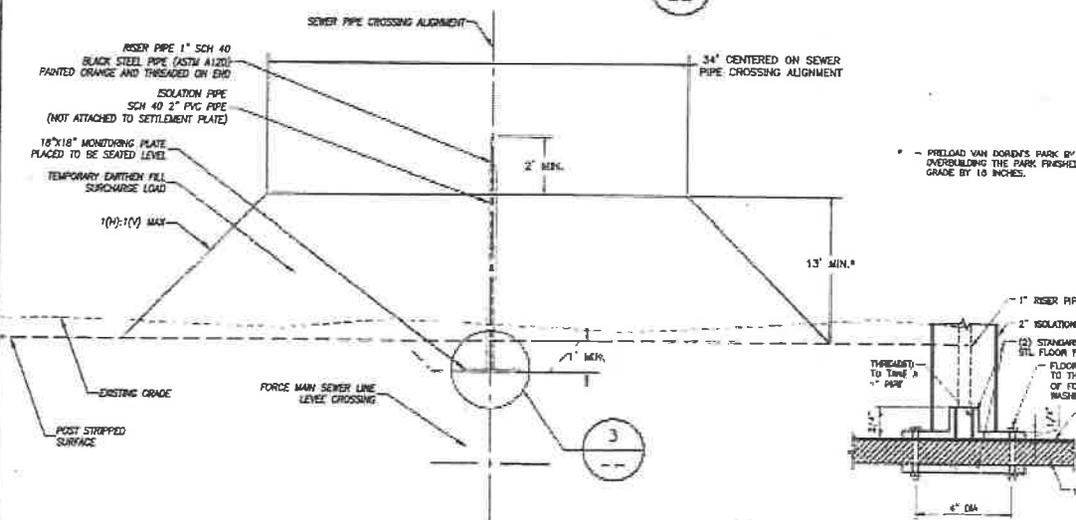
PROJECT No.	1112056
CONTRACT No.	C01419C20



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Tru, Director

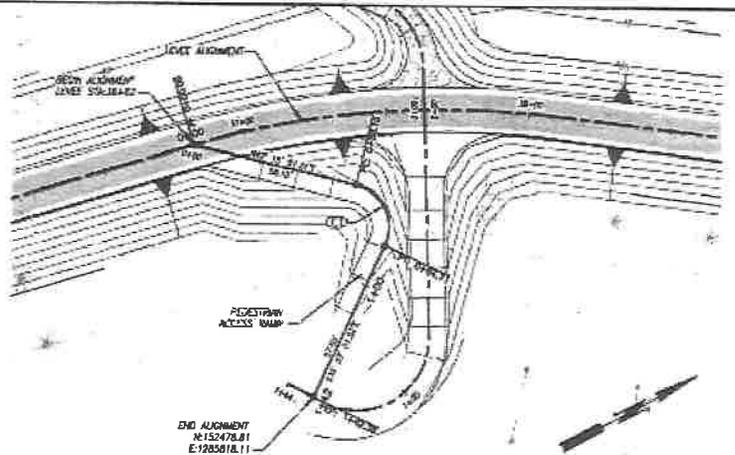


TYPICAL PAVED LEVEE CROWN (1)



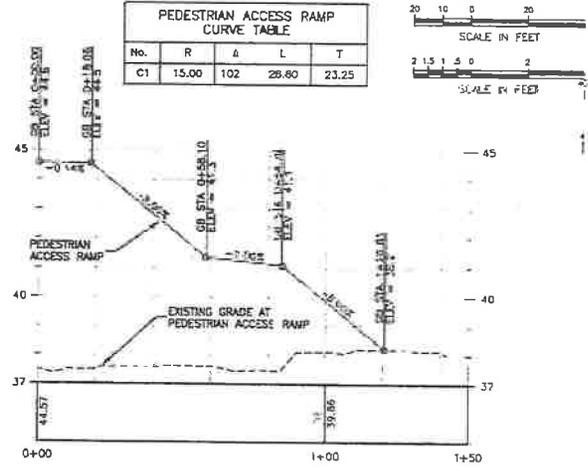
LEVEE SEWER PIPE CROSSING PRELOAD SECTION (2)

MONITORING PLATE CONNECTION (3)



PEDESTRIAN ACCESS RAMP CURVE TABLE

No.	R	Δ	L	T
C1	15.00	102	26.80	23.25



PEDESTRIAN ACCESS RAMP (4)

CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
 Know what's below. Call before you dig.

SURVEY JOB NO./SHEET				
CHECKED:				
CAD ENTERED:	02/11/79			
DESIGNED:	NR 11/79	MAIL	REVISION	BY DATE
CHECKED:	AT 11/79			
SUPERVISOR:	SL 11/79			
		MAIL	RECORD CHANGES APPROVED	BY DATE

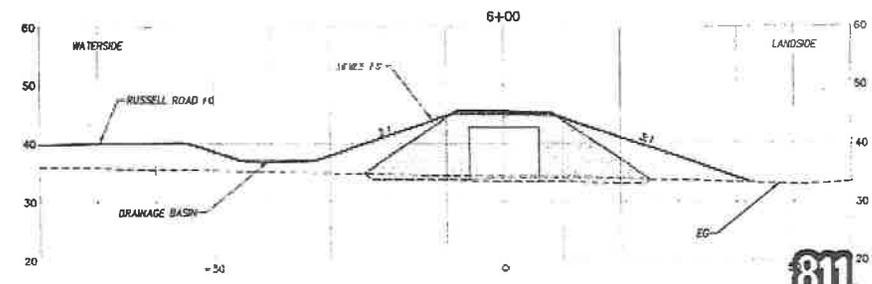
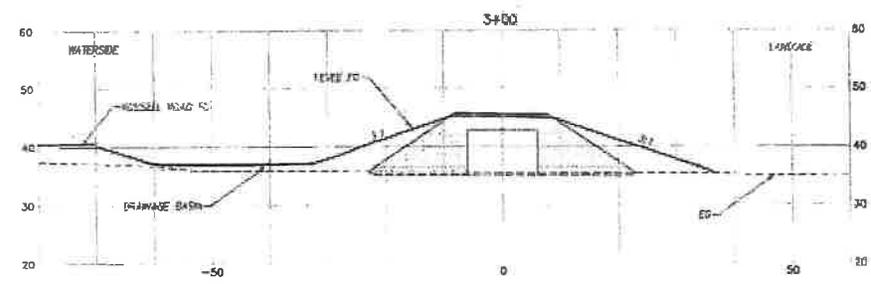
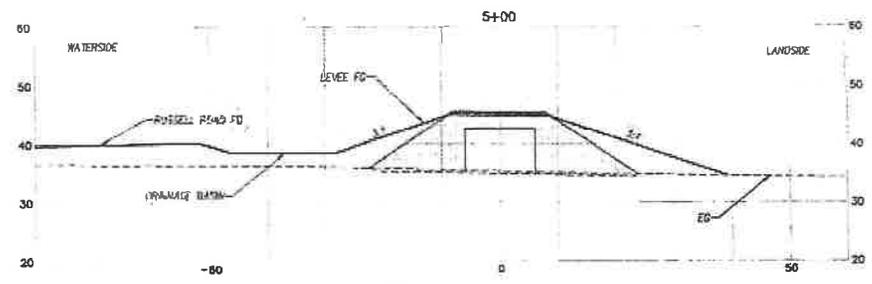
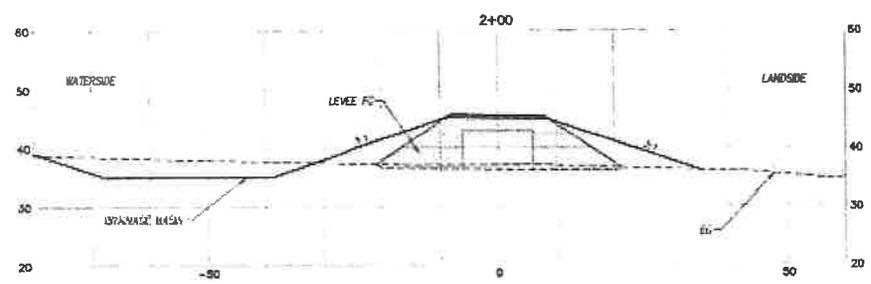
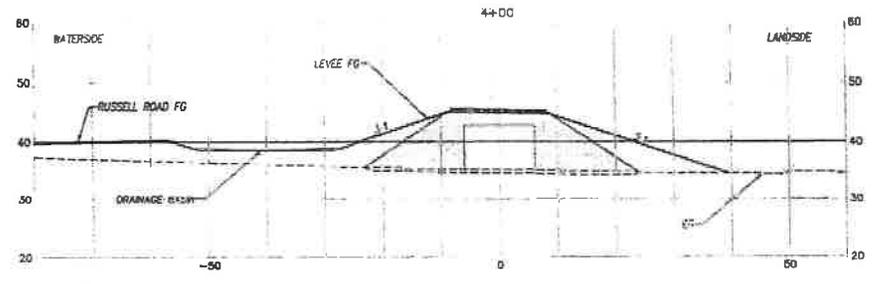
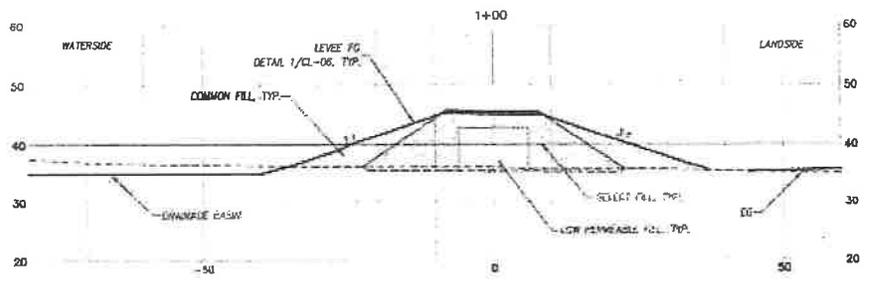
Project No. 11-2056
 CONTACT No. C01415-210



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christa Trus, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 TYPICAL PAVED LEVEE CROWN
 DETAIL
 PEDESTRIAN ACCESS RAMP
 PLAN AND PROFILE**

SHEET
CL-09



CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 Know what's below. Call before you dig.
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



DESIGNED BY	DATE	REVISION	BY	DATE
CHECKED BY	DATE			
SUPERVISOR				
RECORD CHANGES APPROVED		BY	DATE	

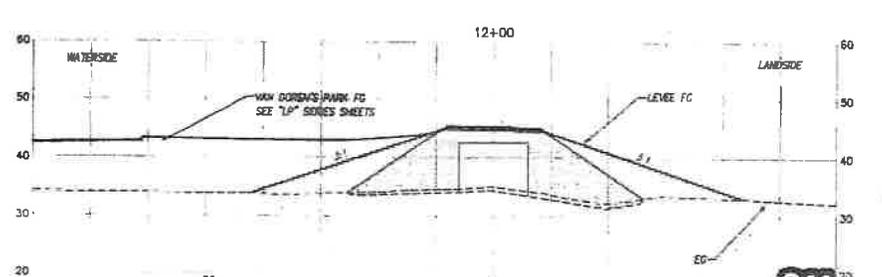
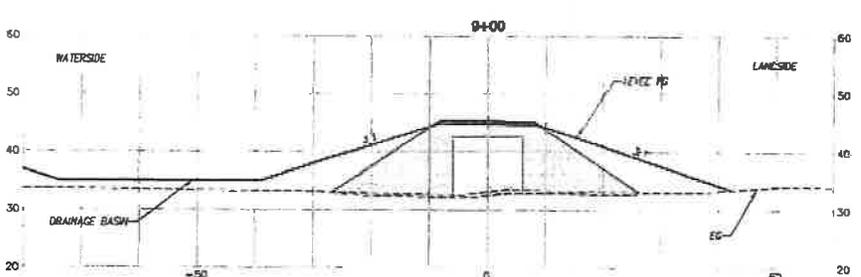
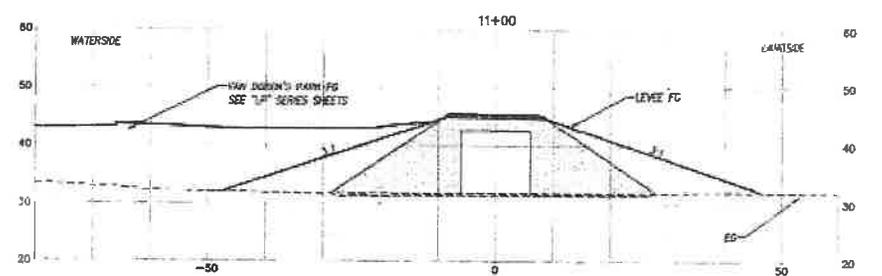
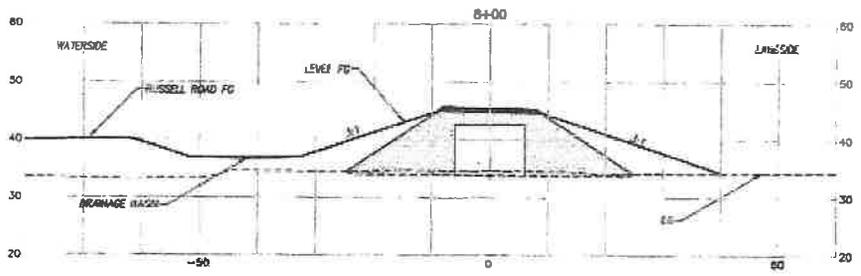
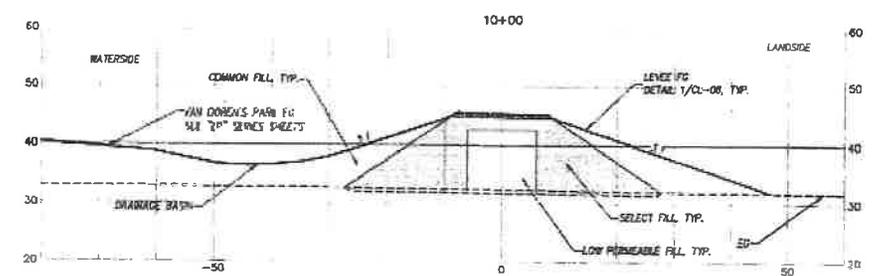
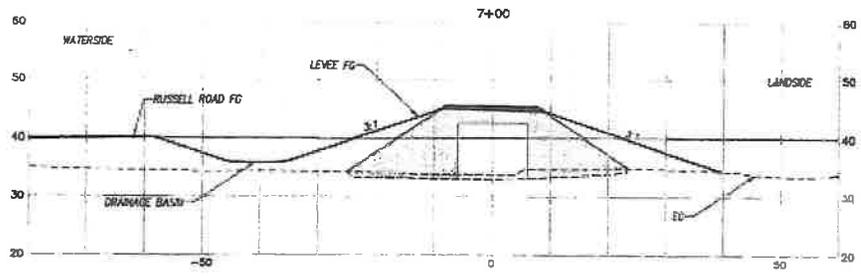
FUNDING: _____
 PROJECT No. 1112056
 CONTRACT No. C01415C20



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Truitt, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 PROPOSED LEVEE
 CROSS SECTIONS**
 STA 1+00 TO 6+00

SHEET
CL-10



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5655
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
 Know what's below. Call before you dig.



SURVEY JOB NO./SCALE:					
CHECKED:					
CAD ENTERED:	RD	8/18			
DESIGNED:	VR	8/18	TEAM	REVISION	BY DATE
CHECKED:	JG	8/18			
SUPERVISOR:	BK	8/18			
REM.	RECORD CHANGES APPROVED	BY	DATE		

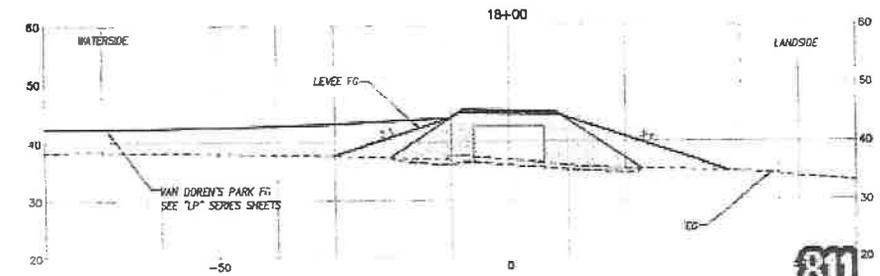
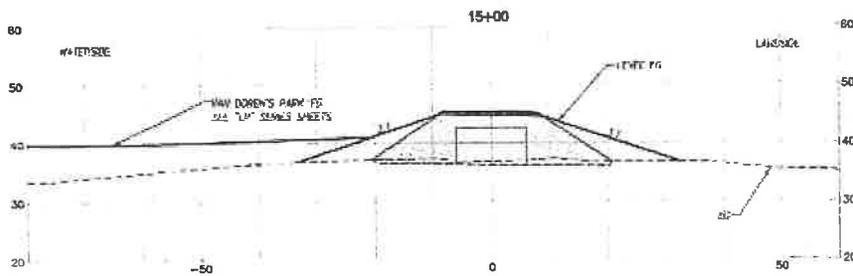
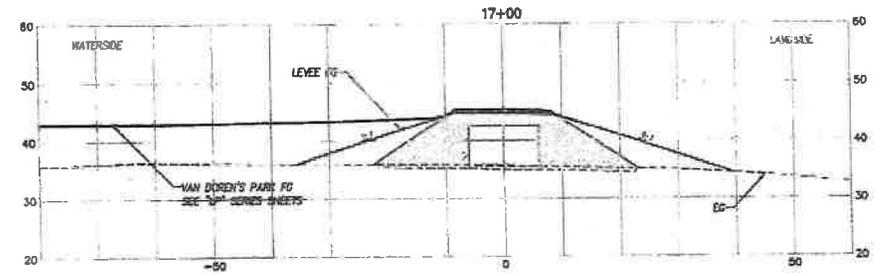
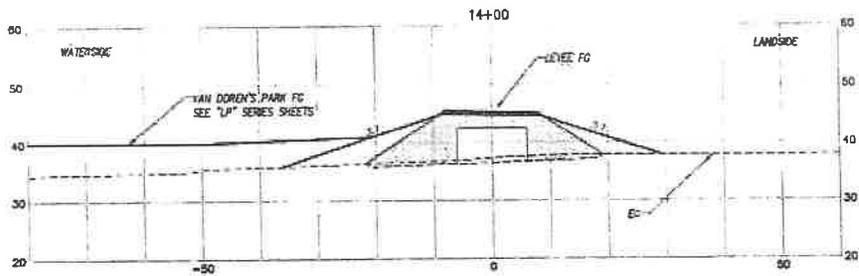
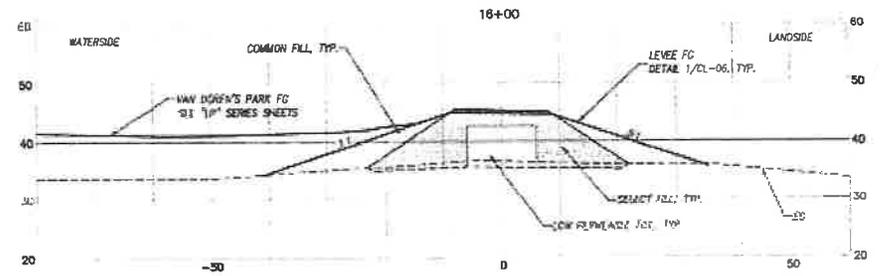
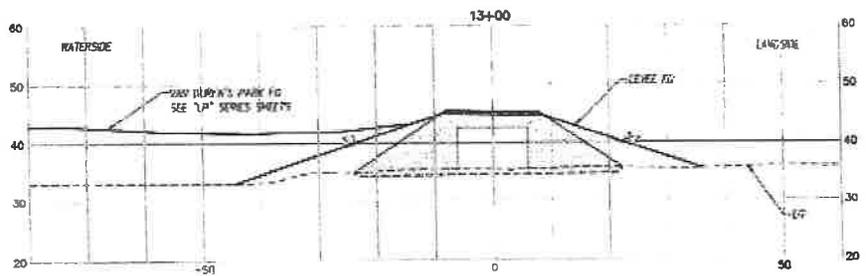
PROJECT No. 1112058
 CONTRACT No. C01415C20



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christa True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PROPOSED LEVEE CROSS SECTIONS
 STA 7+00 TO 12+00

SHEET
CL-11



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

Know what's below.
 Call before you dig.



SURVEY JOB NO./SOURCE					
CHECKED:	RD	11/19			
DWG. ENTHRED:	VR	11/19	REVISION	BY	DATE
CHECKED:	KF	11/19			
SUPERVISOR:	SJ	11/19			
			RECORD CHANGES APPROVED	BY	DATE

TYPING: _____

PROJECT No. **1412056**

CONTRACT No. **CO1415C20**

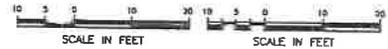
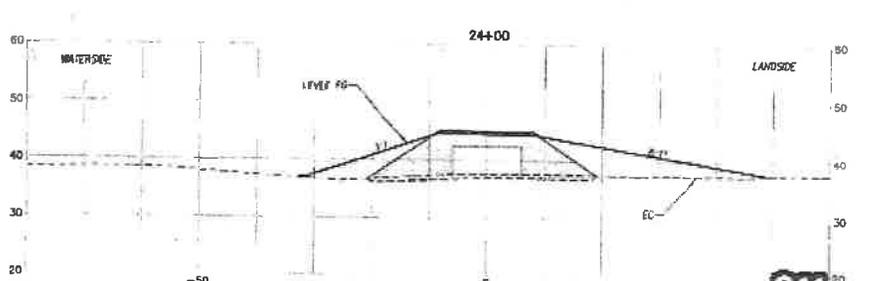
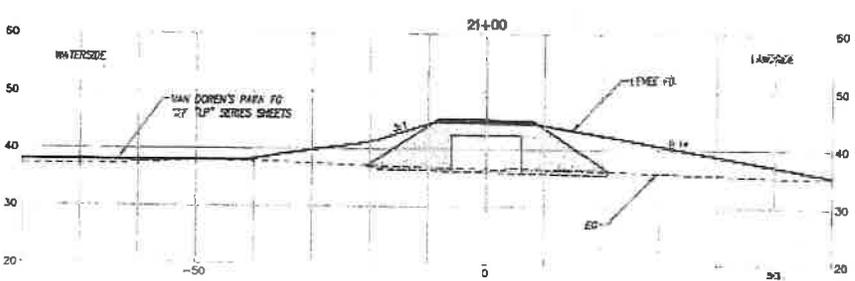
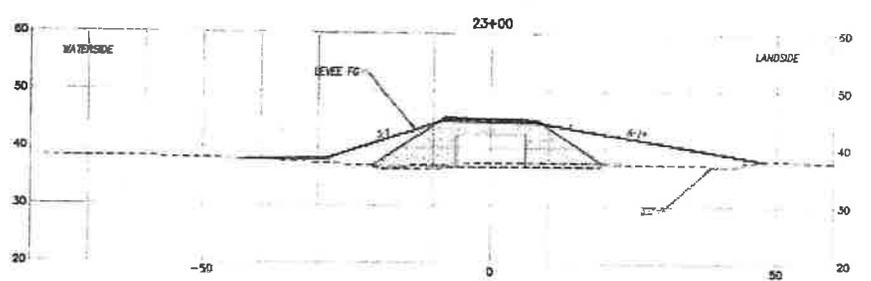
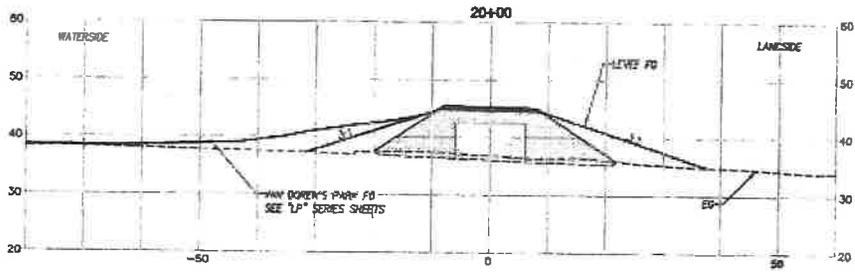
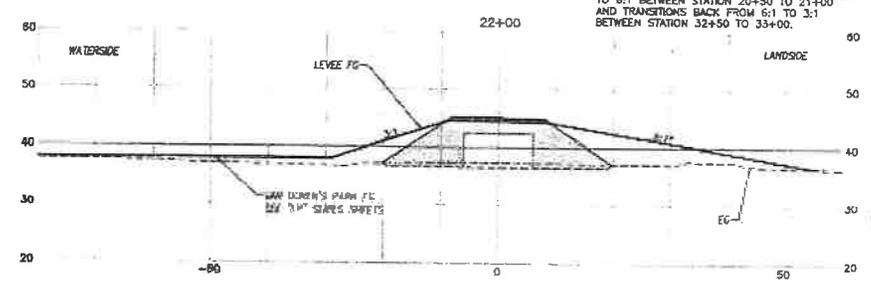
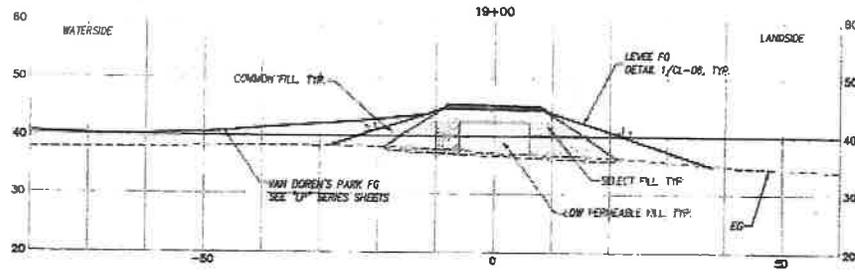


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christine True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PROPOSED LEVEE
CROSS SECTIONS
 STA 13+00 TO 18+00

SHEET
CL-12

*LANDSIDE LEVEE SLOPE TRANSITIONS FROM 3:1 TO 6:1 BETWEEN STATION 20+50 TO 21+00 AND TRANSITIONS BACK FROM 6:1 TO 3:1 BETWEEN STATION 32+50 TO 33+00.



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
 Know what's below. Call before you dig.
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



SWIMY JOB NO./SOURCE	---	---					
CHECKED	---	---					
CAD ENTERED	RD	11/19					
DESIGNED	VR	11/19	MAIL	REVISION	BY	DATE	
CHECKED	KF	11/19					
SUPERVISOR	SJ	11/19					
			RECORD CHANGES APPROVED	BY	DATE		

FURNISH:
 PROJECT No. 1113096
 CONTRACT No. CD1415C20

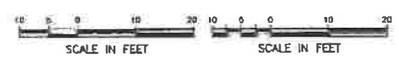
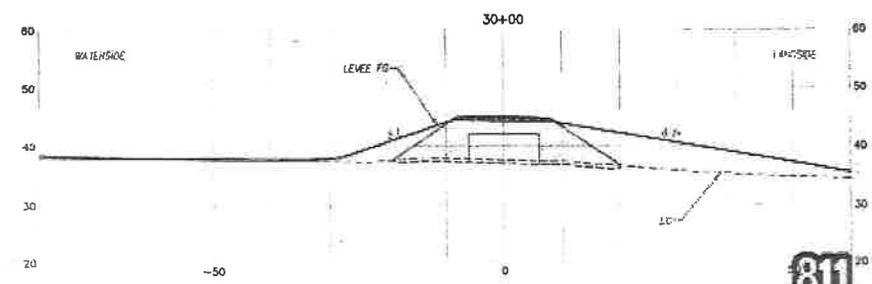
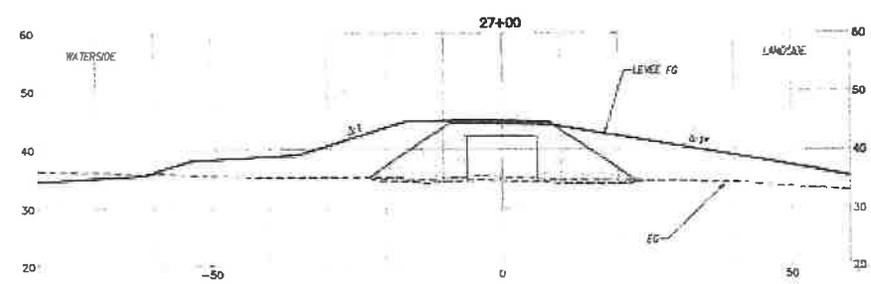
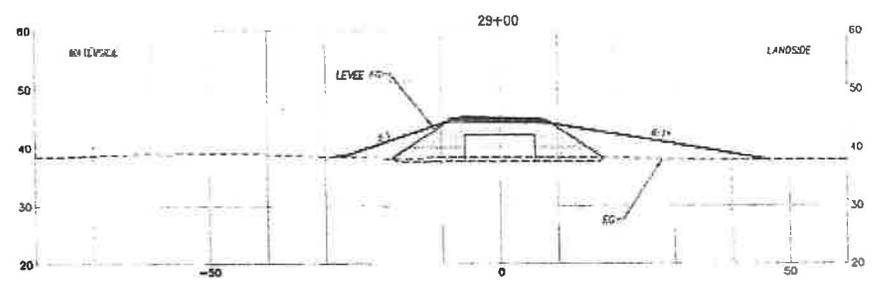
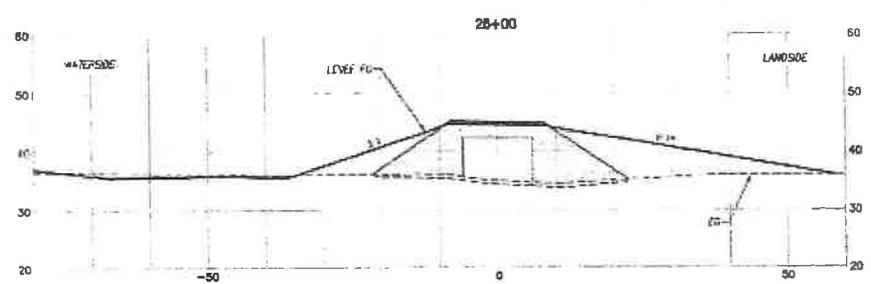
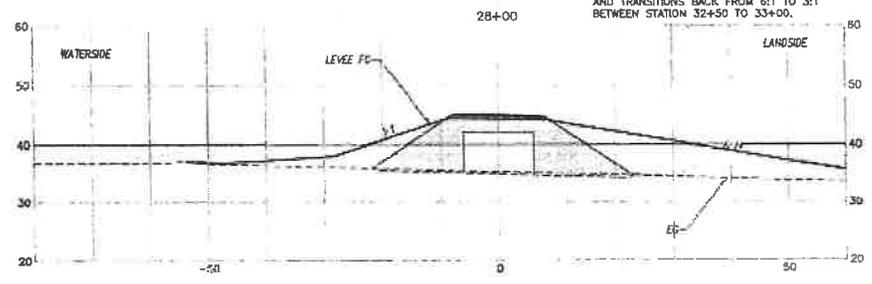
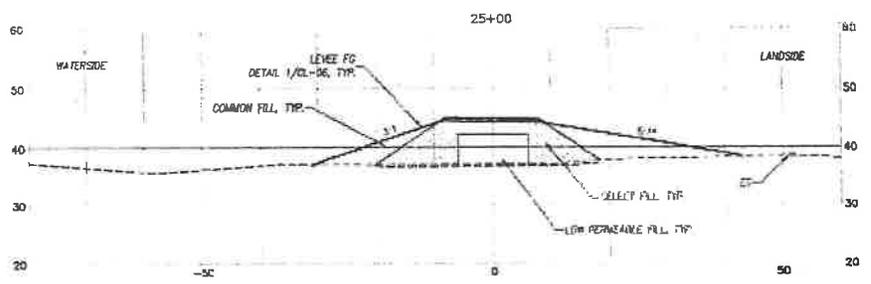


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Trus, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PROPOSED LEVEE CROSS SECTIONS
 STA 19+00 TO 24+00

SHEET
CL-13

*LANDSIDE LEVEL SLOPE TRANSITIONS FROM 3:1 TO 6:1 BETWEEN STATION 20+50 TO 21+00 AND TRANSITIONS BACK FROM 6:1 TO 3:1 BETWEEN STATION 32+50 TO 33+00.



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
Know what's below. Call before you dig.
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



SURVEY JOB NO./SUBJECT						FUNDING	
CHECKED						PROJECT No.	1112056
DWG ENTERED	RD	11/19				CONTRACT No.	CD1415C20
DESIGNED	VR	11/19	MAN.	REVISION	BY	DATE	
CHECKED	KF	11/19					
SUPERVISOR	SJ	11/19					
			MAN.	RECORD CHANGES APPROVED	BY	DATE	

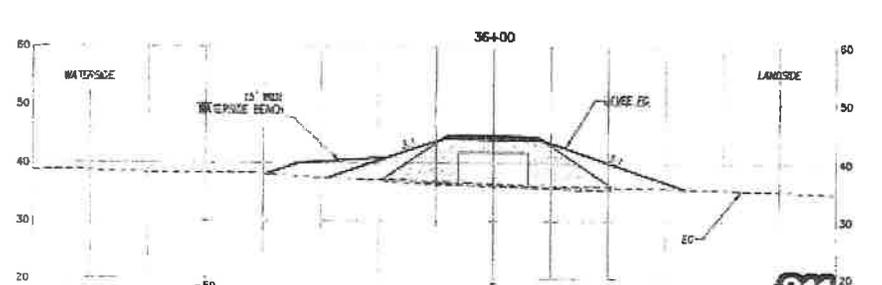
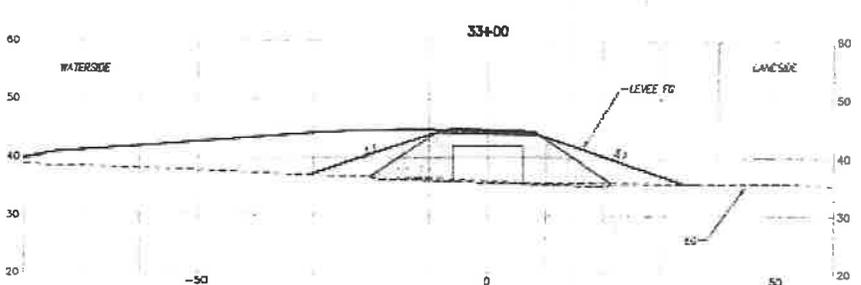
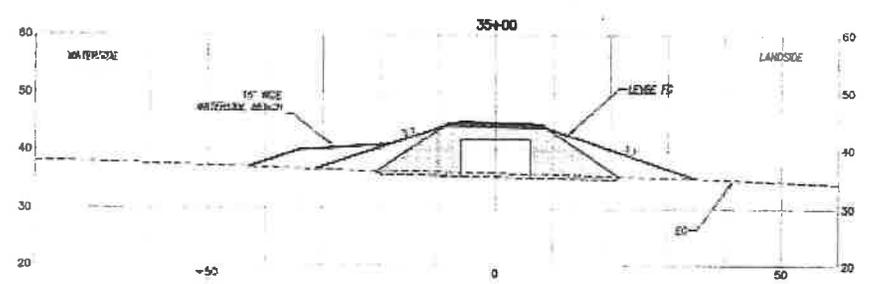
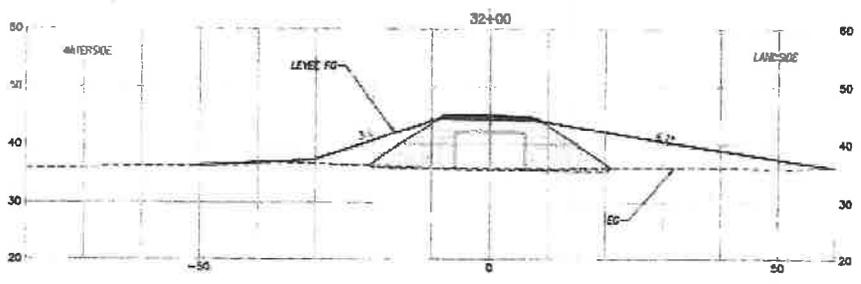
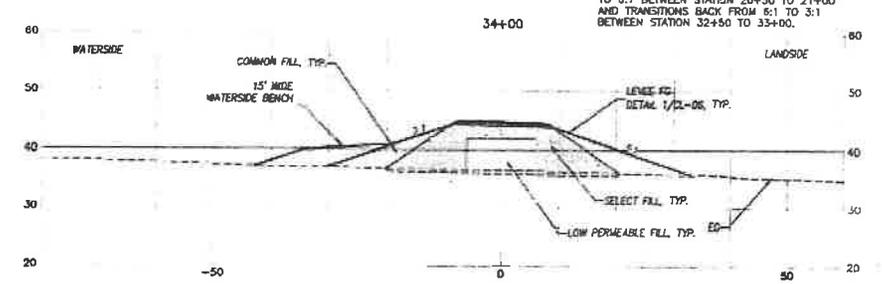
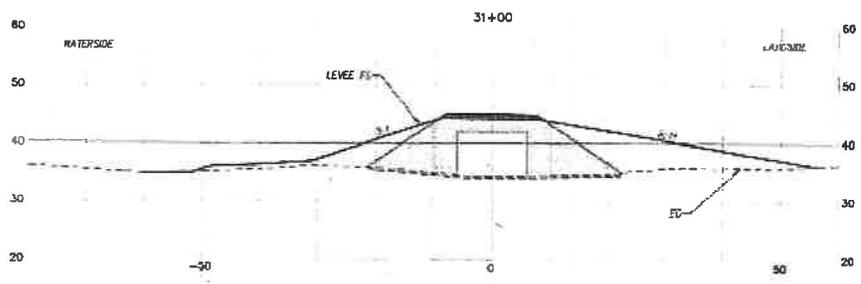


King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PROPOSED LEVEE CROSS SECTIONS
STA 29+00 TO 30+00

SHEET
CL-14

*LANDSIDE LEVEL SLOPE TRANSITIONS FROM 3:1 TO 5:1 BETWEEN STATION 20+50 TO 21+00 AND TRANSITIONS BACK FROM 5:1 TO 3:1 BETWEEN STATION 32+50 TO 33+00.



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



SURVEY JOB NO./SOURCE:					
CHECKED:	RD	11/19			
DWG. DESIGNED:	NR	11/19			
DESIGNED:	NR	11/19	SCALE	REVISION	BY DATE
CHECKED:	KP	11/19			
SUPERVISOR:	SJ	11/19			
			SCALE	RECORD CHANGES APPROVED	BY DATE

PLANNING _____
PROJECT No. 1112056
CONTRACT No. C01415C20

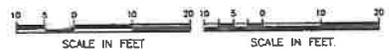
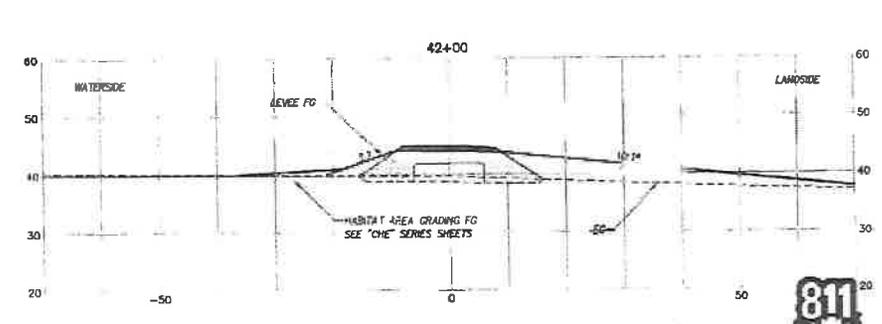
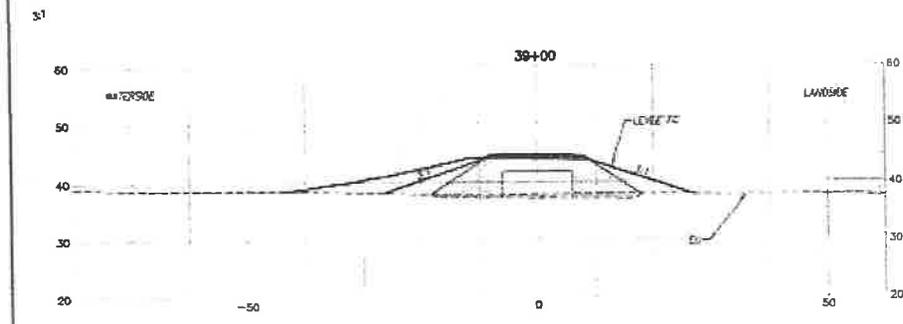
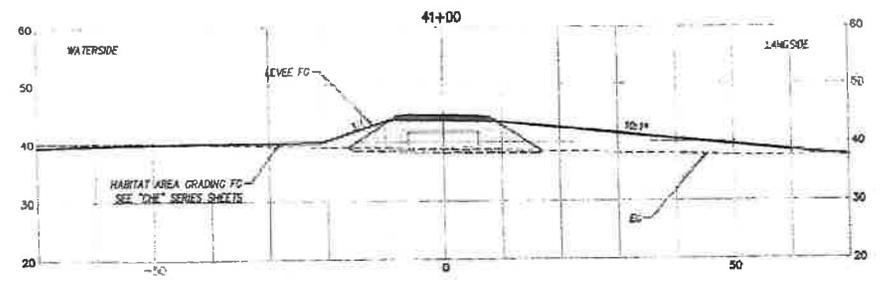
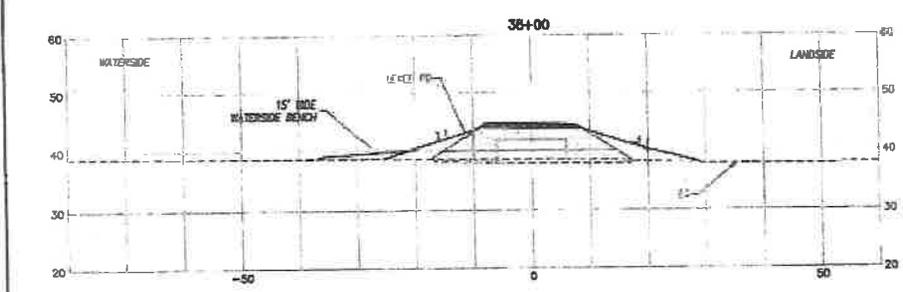
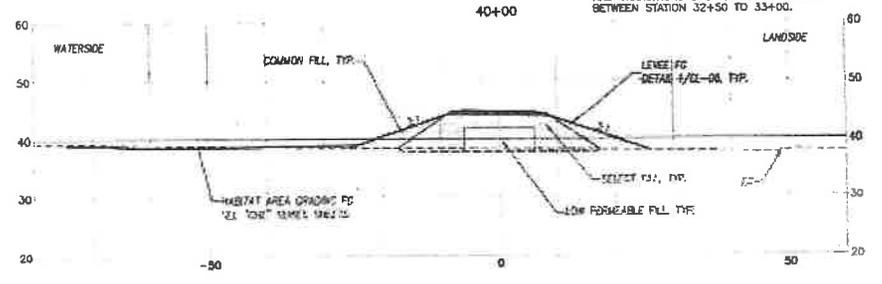
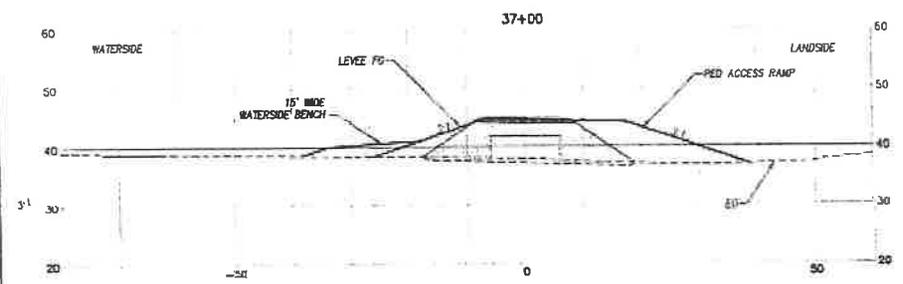


King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Truss Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PROPOSED LEVEE CROSS SECTIONS
STA 31+00 TO 36+00

SHEET
CL-15

LANDSIDE LEVEE SLOPE TRANSITIONS FROM 3:1 TO 6:1 BETWEEN STATION 20+50 TO 21+00 AND TRANSITIONS BACK FROM 6:1 TO 3:1 BETWEEN STATION 32+50 TO 33+00.



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

811
Know what's below.
Call before you dig.

SURVEY JOB NO./SOURCE:					
CHECKED:					
CAD ENTRED:	JD	11/19			
DRAWN:	VR	11/19	NAME	REVISION	BY DATE
CHECKED:	KF	11/19			
SUPERVISOR:	SJ	11/19			
	NAME	RECORD CHANGES APPROVED	BY	DATE	

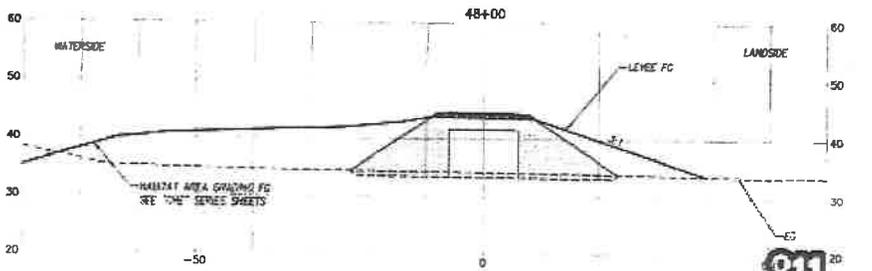
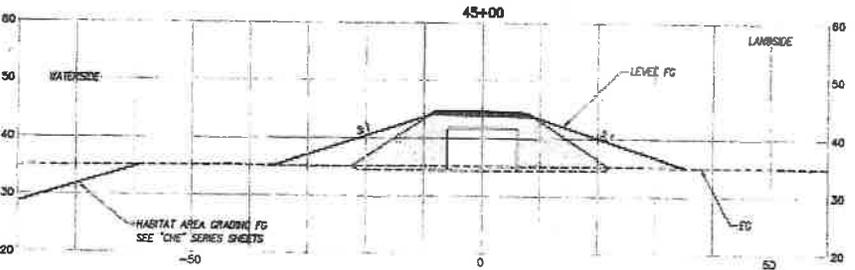
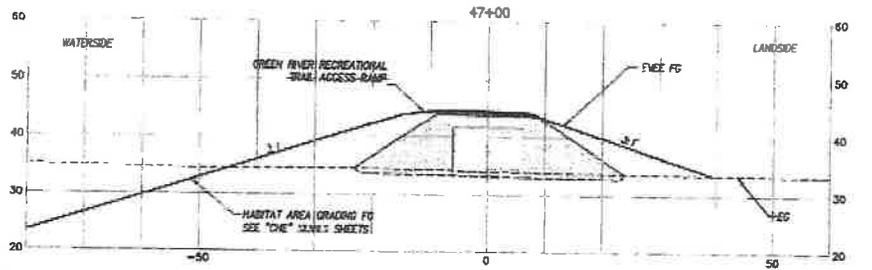
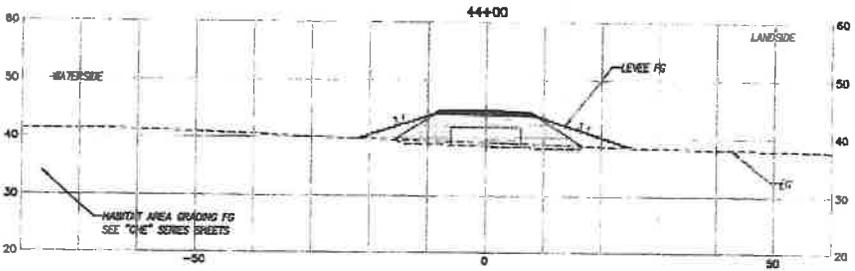
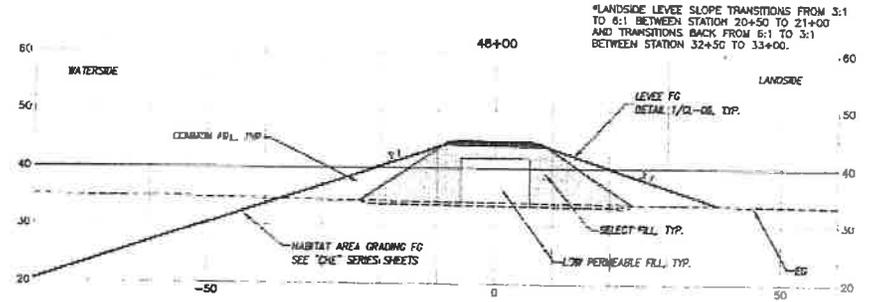
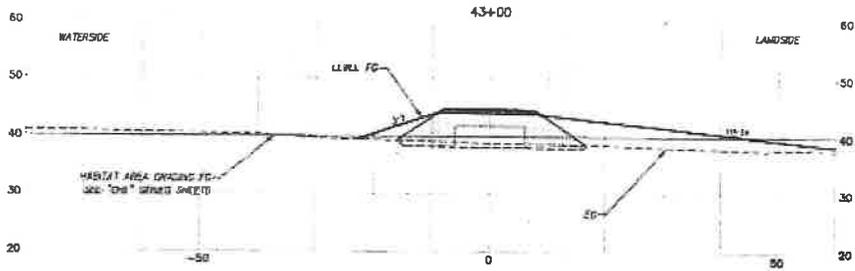
FUNDING: _____
PROJECT No. 1112056
CONTRACT No. C01415C20



King County
Department of Natural Resources and Parks
Water and Floodplain Management Section
Christie Truss Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PROPOSED LEVEE CROSS SECTIONS
STA 37+00 TO 42+00

SHEET
CL-16



CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



SURVEY JOB NO./SCALE:					
CHECKED:					
CAD ENTERED:	RD	11/19			
DESIGNED:	VR	11/19			
CHECKED:	MF	11/19			
SUPERVISOR:	SJ	11/19			
	MM	RECORD CHANGES APPROVED	BY	DATE	

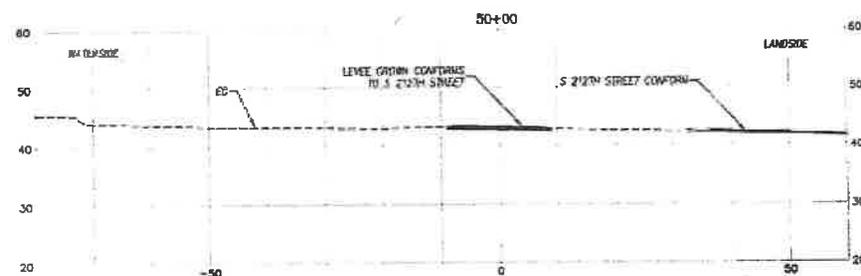
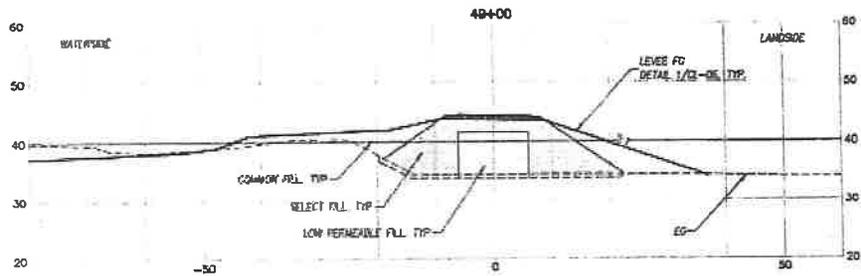
FUNDING:	
PROJECT No.	1112056
CONTRACT No.	CO1415C20



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Tison, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PROPOSED LEVEE
CROSS SECTIONS
SFA 43+00 TO 48+00

SHEET
CL-17



CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



Know what's below.
Call before you dig.

SURVEY JOB NO./SCALE:					
CHECKED:	RD	11/18			
CAD ENDED:	VR	11/19	REVISED	BY	DATE
DESIGNED:	KF	11/19			
CHECKED:	SJ	11/19			
SUPERVISOR:					
	HEM		RECORD CHANGES APPROVED	BY	DATE

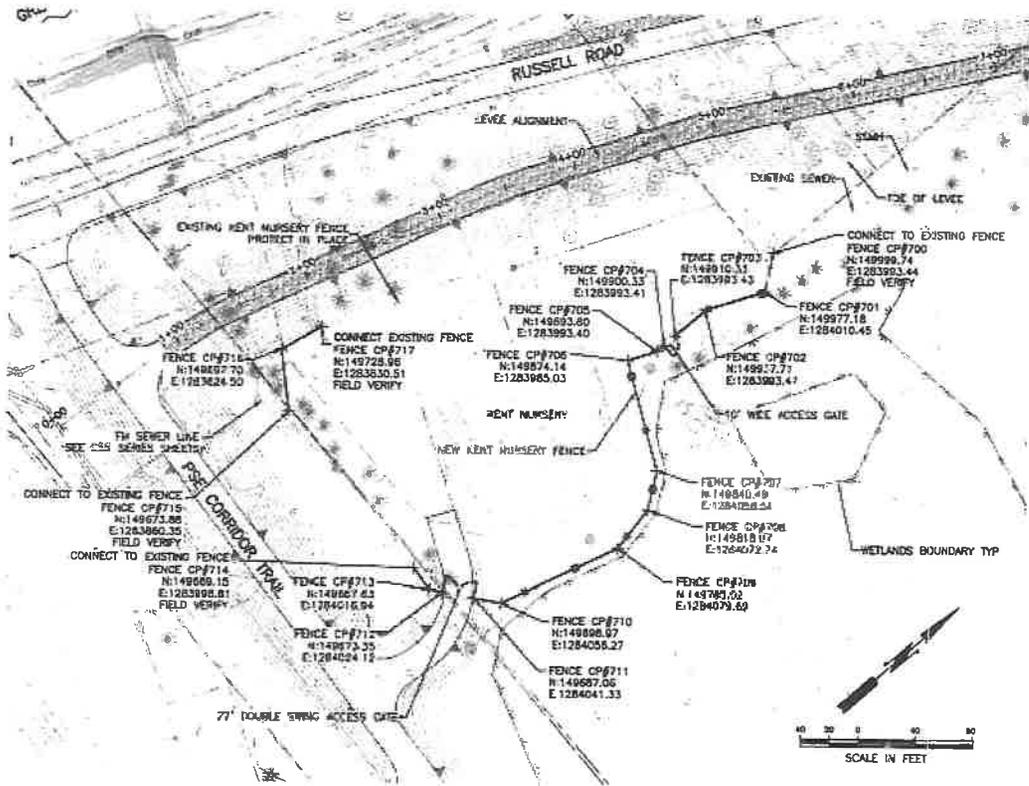
FUNDING: _____
PROJECT No. 1112056
CONTRACT No. C01415C20



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Truss, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PROPOSED LEVEE CROSS SECTIONS
STA 49+00 TO 50+00

SHEET
CL-18



NOTES:

1. THE EXISTING KENT NURSERY FENCE AND DRIVEWAY TO BE REMOVED TO THE EXTENT SHOWN ON THE "CP" SERIES SHEETS. REMAINING EXISTING KENT NURSERY FENCE TO BE PROTECTED IN PLACE AND CONNECTIONS BETWEEN THE NEW AND EXISTING FENCES SHALL BE FIELD FIT BASED ON REMAINING FENCE OR AS DIRECTED IN THE FIELD BY THE REPRESENTATIVE.
2. NEW KENT NURSERY FENCE SHALL BE A 6 FEET TALL BLACK POLYMER CHAIN LINK FENCE. SEE SPECIFICATION SECTION 32 31 13 - CHAINLINK FENCES AND GATES.

SURVEY JOB NO./SHEET:					
CHECKED:					
CAO EXTENDED:	RD	11/19			
DESIGNED:	VR	11/19	REVISION	BY	DATE
CHECKED:	KF	11/19			
SUPERVISOR:	SJ	11/19			
	MAN	NEEDED CHANGES APPROVED		BY	DATE

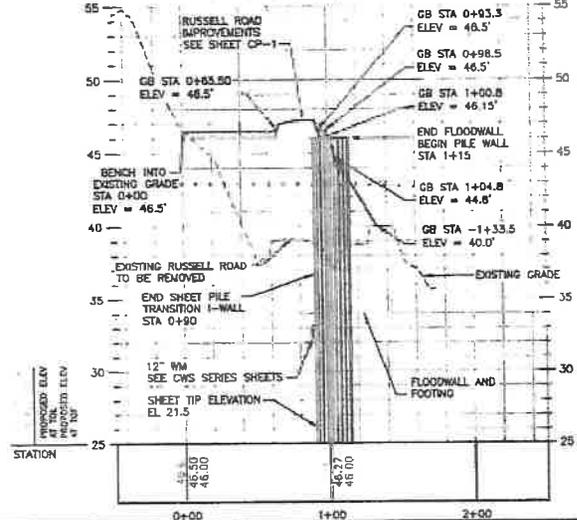
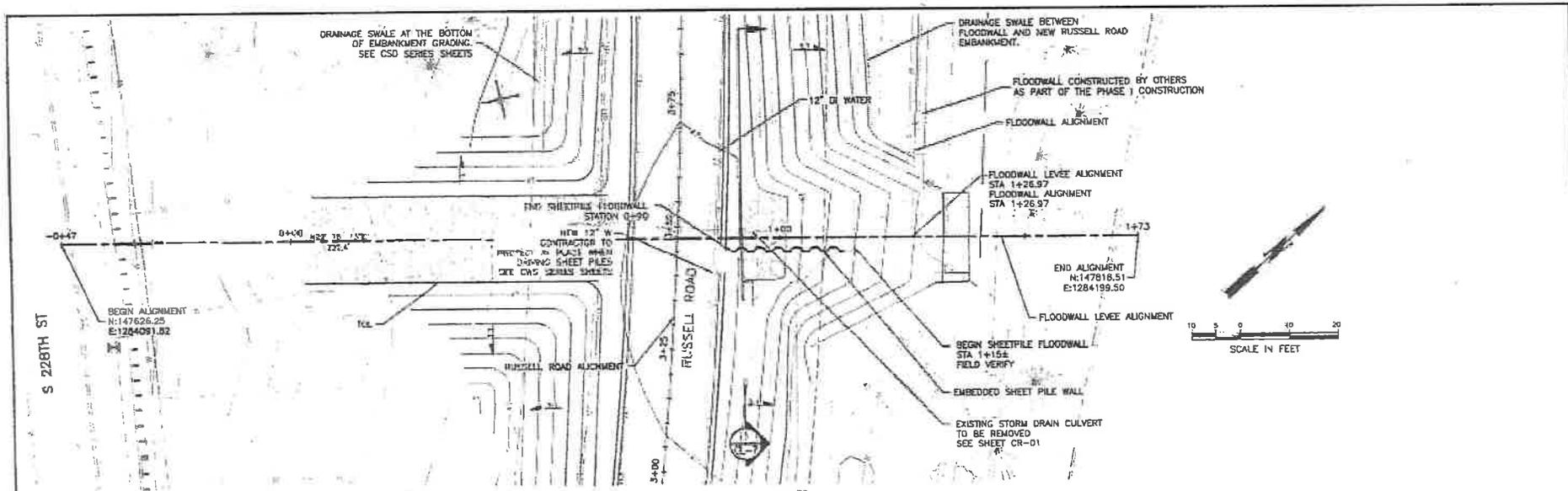
FUNDING:	
PROJECT No.	1112336
CONTRACT No.	C01415020



King County
 Department of Natural Resources and Parks
 Water and Floodplain Management Section
 Christina Tice, Director

811
 CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
 Know what's below. Call before you dig.
 LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
PROPOSED KENT NURSERY FENCE AND GATE PLAN
 STA 0+00 TO 10+00

SHEET
CL-19



ISSUED JOB NO./SCALE:					
CHECKED:					
DATE ENTERED:	RD	11/18			
DESIGNED:	VR	11/18	MGM	REVISION	BY DATE
CHECKED:	JF	11/19			
SUPERVISOR:	SJ	11/18			
REVISIONS APPROVED BY:			DATE:		

FUNDING:	
PROJECT No.	1112056
CONTRACT No.	C01415C20



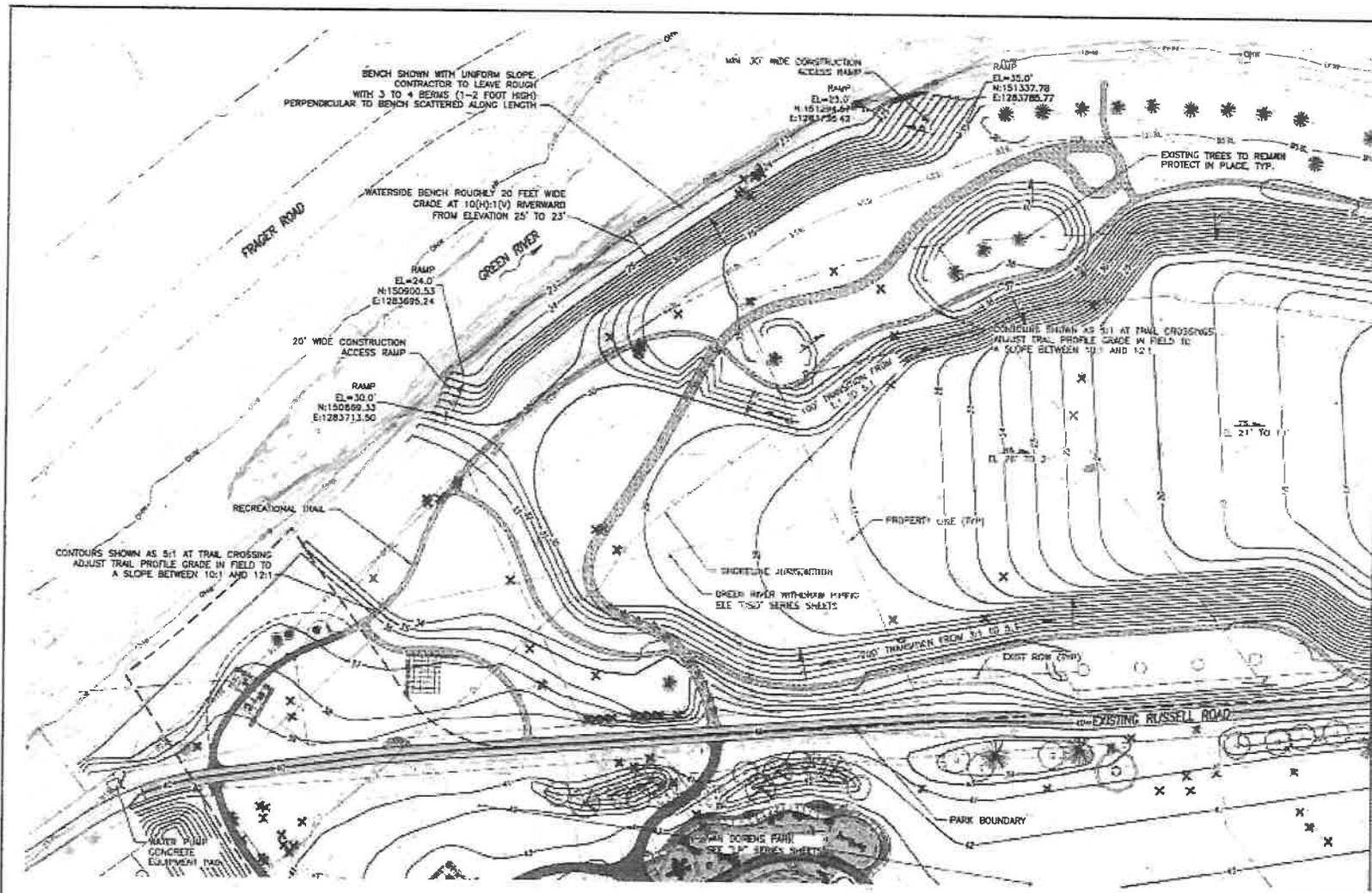
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christa Titas, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PROPOSED FLOODWALL LEVEE
PLAN AND PROFILE
 STA -0+47 TO 1+73

SHEET
CL-20

CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS MAY VARY)
 Know what's below.
 Call before you dig.

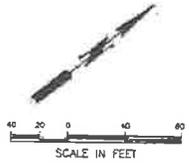




NOTES

1. FOR RECREATIONAL TRAIL IMPROVEMENTS SEE "LP" SERIES SHEETS.
2. FOR DEMOLITION AND VEGETATION REMOVAL SEE "CC" AND "CR" SERIES SHEETS.
3. FOR ROADWAY IMPROVEMENTS SEE "CP" SERIES SHEETS.
4. GRADING FOR ALL IMPROVEMENTS ARE TO BE DONE WITHOUT ABRUPT CHANGES IN GRADE WITH SMOOTH TRANSITIONS.

MATCHLINE (SEE SHEET CHE-02)



CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
 Know what's below. Call before you dig.

SURVEY JOB NO./SOURCE:						
CHECKED:						
DATE DIVERSED:	RD	11/18				
DESIGNED:	VR	11/18	REVISION	BY	DATE	
CHECKED:	KF	11/18				
SUPERVISOR:	SJ	11/18				
	MAL	RECORD CHANGES APPROVED	BY	DATE		

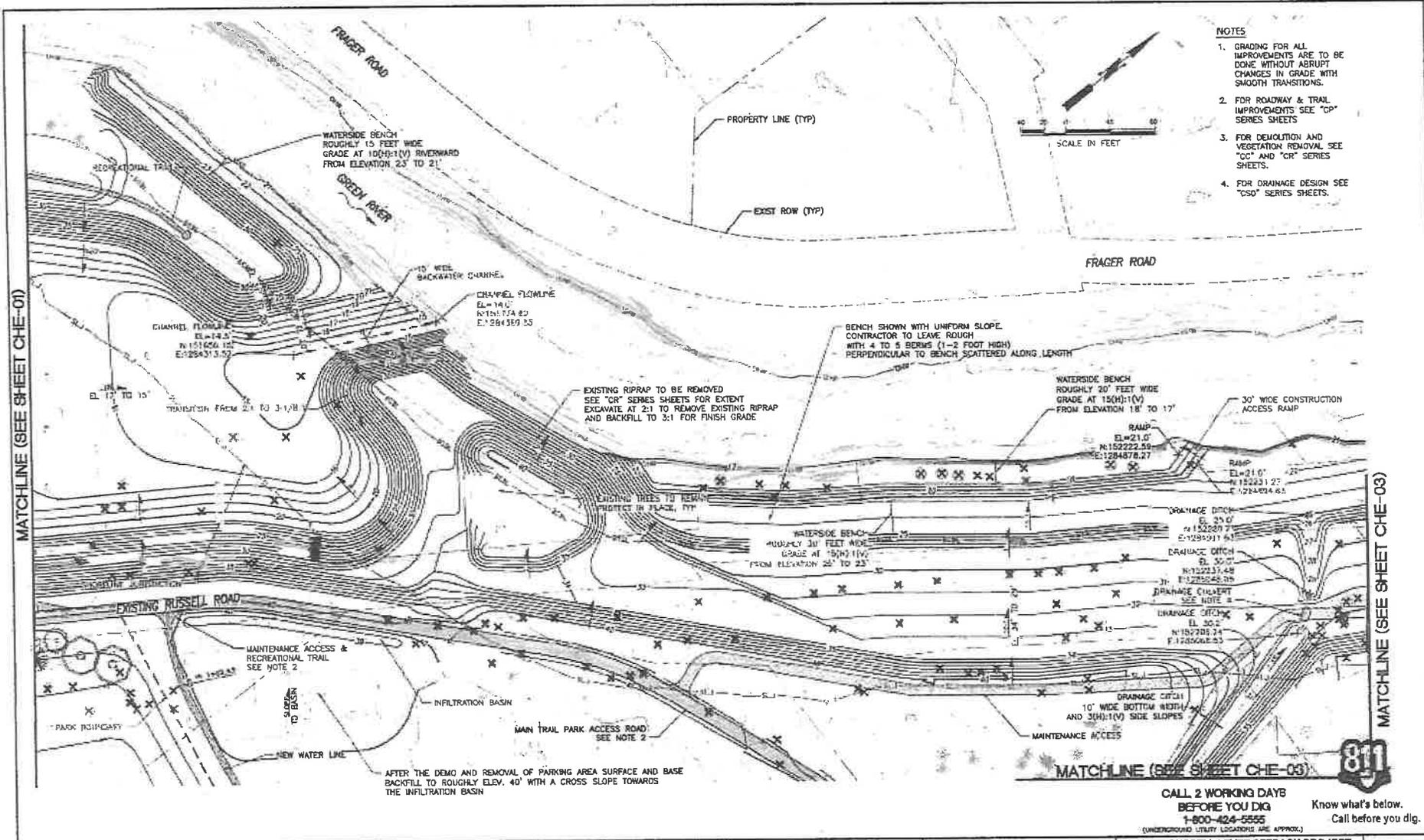
FINISH:	
PROJECT No.	1112056
CONTRACT No.	CD1415C20



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Tava, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
HABITAT AREA EXCAVATION 1

SHEET
CHE-01



- NOTES**
1. GRADING FOR ALL IMPROVEMENTS ARE TO BE DONE WITHOUT ABRUPT CHANGES IN GRADE WITH SMOOTH TRANSITIONS.
 2. FDR ROADWAY & TRAIL IMPROVEMENTS SEE "CP" SERIES SHEETS
 3. FDR DEMOLITION AND VEGETATION REMOVAL SEE "CC" AND "CR" SERIES SHEETS.
 4. FDR DRAINAGE DESIGN SEE "CSO" SERIES SHEETS.

MATCHLINE (SEE SHEET CHE-01)

MATCHLINE (SEE SHEET CHE-03)

SURVEY JOB NO./SOURCE	---	---	---	---	---
CHECKED	---	---	---	---	---
CAD ENTERED	RD	11/16			
DRAWN	VR	11/16	DATE		
CHECKED	KP	11/16			
SUPERVISOR	SJ	11/16			
RECORD CHANGES APPROVED	BY	DATE			

FINING:

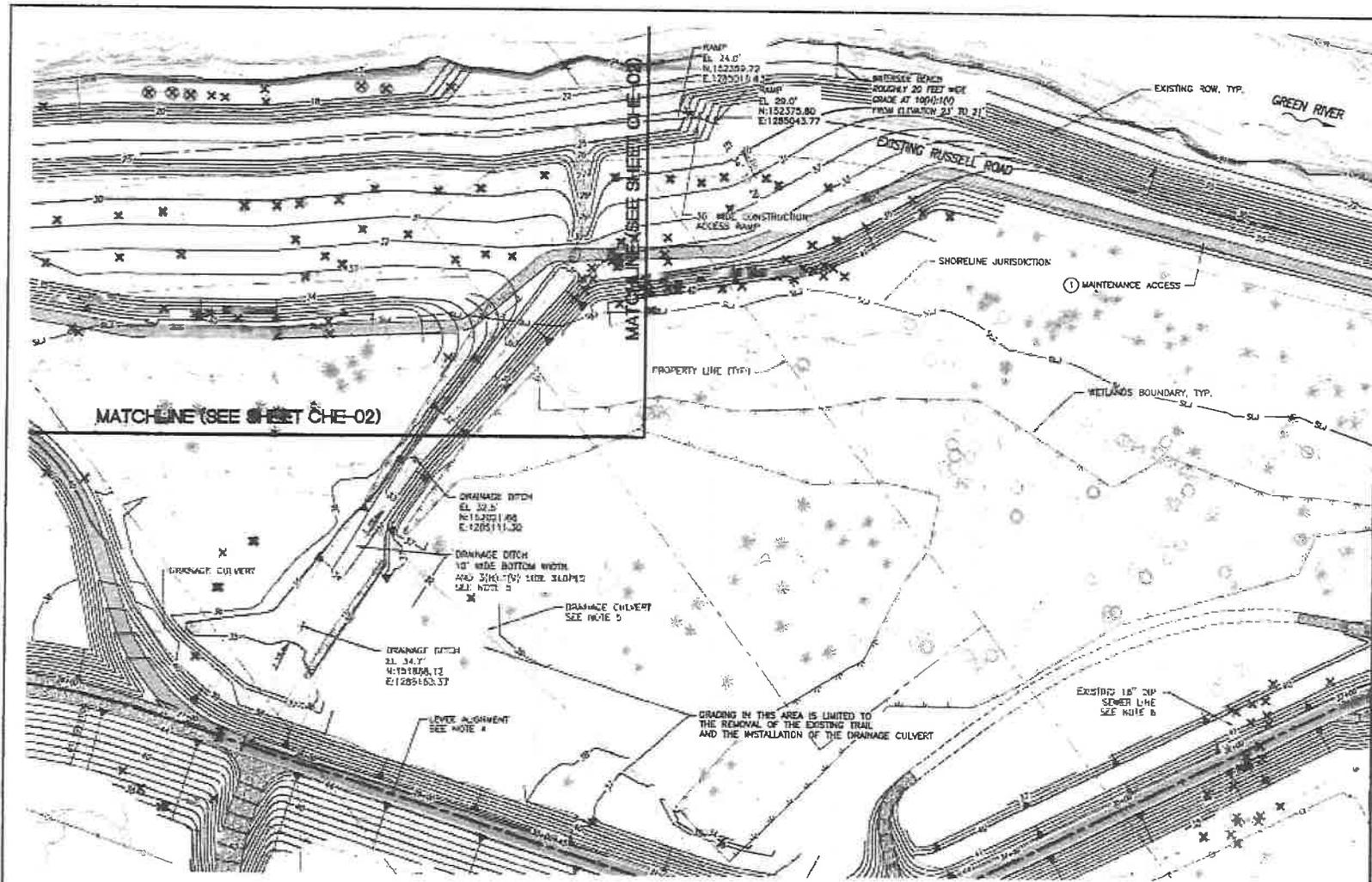
PROJECT No.	1112056
CONTRACT No.	C0141SC20



King County
 Department of Natural Resources and Parks
 Water and Floodplains Management Section
 River and Floodplains Management Section
 Childe Trust, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 HABITAT AREA EXCAVATION 2**

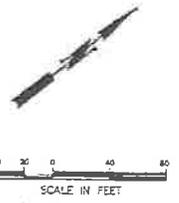
SHEET
CHE-02



NOTES

1. GRADING FOR ALL IMPROVEMENTS ARE TO BE DONE WITHOUT ABRUPT CHANGES IN GRADE WITH SMOOTH TRANSITIONS.
2. FOR ROADWAY & TRAIL IMPROVEMENTS SEE "CP" SERIES SHEETS.
3. FOR DEMOLITION AND VEGETATION REMOVAL SEE "OC" AND "CR" SERIES SHEETS.
4. FOR LEVEE GRADING SEE "CL" SERIES SHEETS.
5. FOR DRAINAGE DESIGN SEE "CSD" SERIES SHEETS.
6. THE EXACT LOCATION AND DEPTH OF THIS 18" DIP STORM DRAINAGE PIPE IS UNKNOWN. LOCATION SHOWN IS APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LOCATION. SEE SHEET CSS-04 FOR ABANDONMENT DETAILS.

MATCHLINE (SEE SHEET CHE-04)



SURVEY JOB NO./SUBJECT:					
CHECKED:					
DWG. DESIGNED:	RD	11/78			
DESIGNED:	VR	11/78	REVISION	BY	DATE
CHECKED:	KP	11/78			
SUPERVISOR:	SJ	11/78			
FILE	RECORD CHANGES APPROVED	BY	DATE		

PROJECT No. 1112058
 CONTRACT No. C01415C20

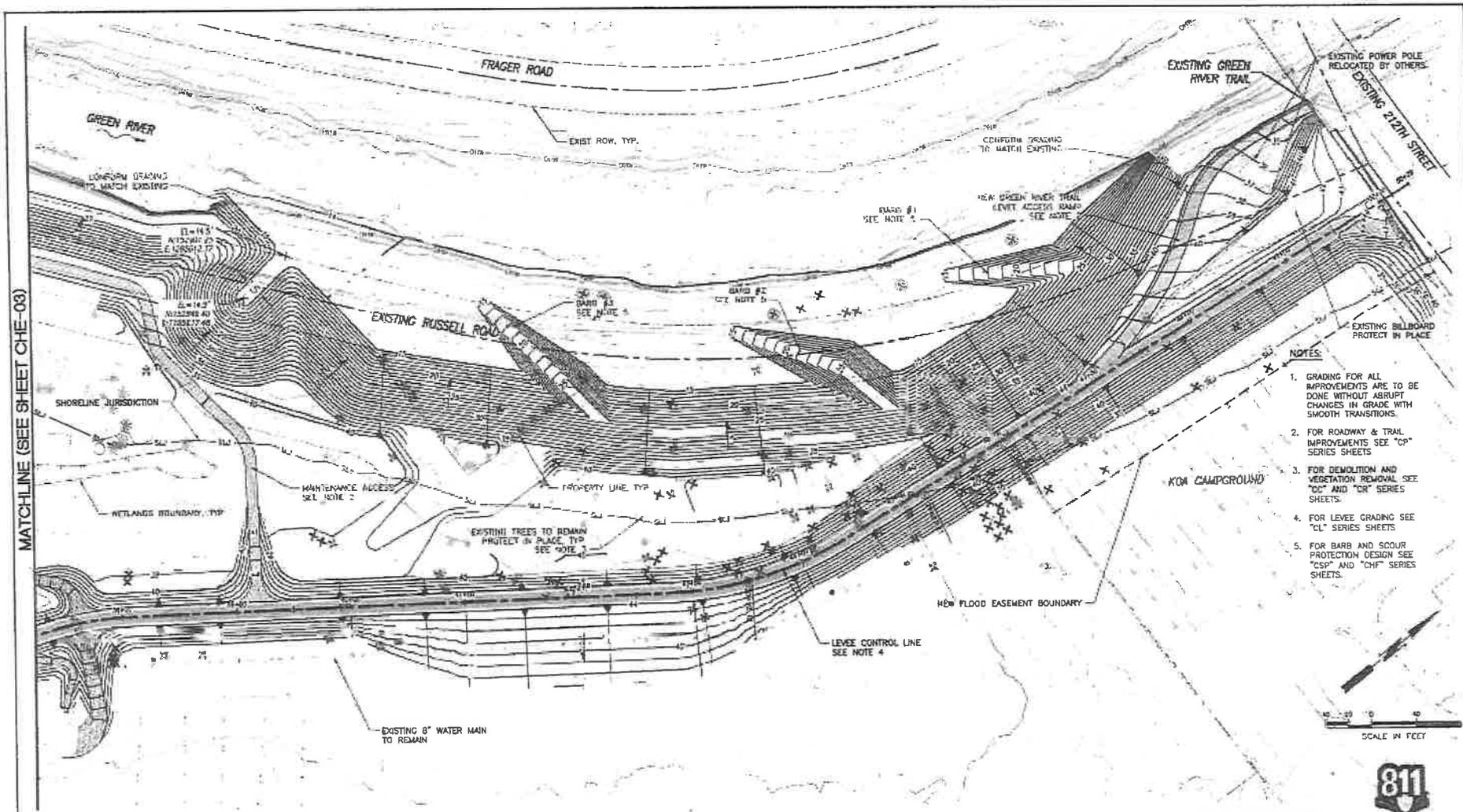


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie True, Director

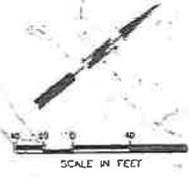
LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
HABITAT AREA EXCAVATION 3

SHEET
CHE-03

CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 Know what's below. Call before you dig.



- NOTES**
1. GRADING FOR ALL IMPROVEMENTS ARE TO BE DONE WITHOUT ABRUPT CHANGES IN GRADE WITH SMOOTH TRANSITIONS.
 2. FOR ROADWAY & TRAIL IMPROVEMENTS SEE "CP" SERIES SHEETS.
 3. FOR DEMOLITION AND VEGETATION REMOVAL SEE "DC" AND "DR" SERIES SHEETS.
 4. FOR LEVEE GRADING SEE "CL" SERIES SHEETS.
 5. FOR BARR AND SCOUR PROTECTION DESIGN SEE "CSP" AND "CHF" SERIES SHEETS.



811
 CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-484-3555
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
 Know what's below. Call before you dig.

SURVEY JOB NO./SOURCE:					
CHECKED:					
DATE ENTERED:	RD	11/19			
DESIGNED:	VR	11/19	HWK	REVISION	BY DATE
CHECKED:	KF	11/19			
SUPERVISOR:	SJ	11/19			
			RECORD CHANGES APPROVED	BY	DATE

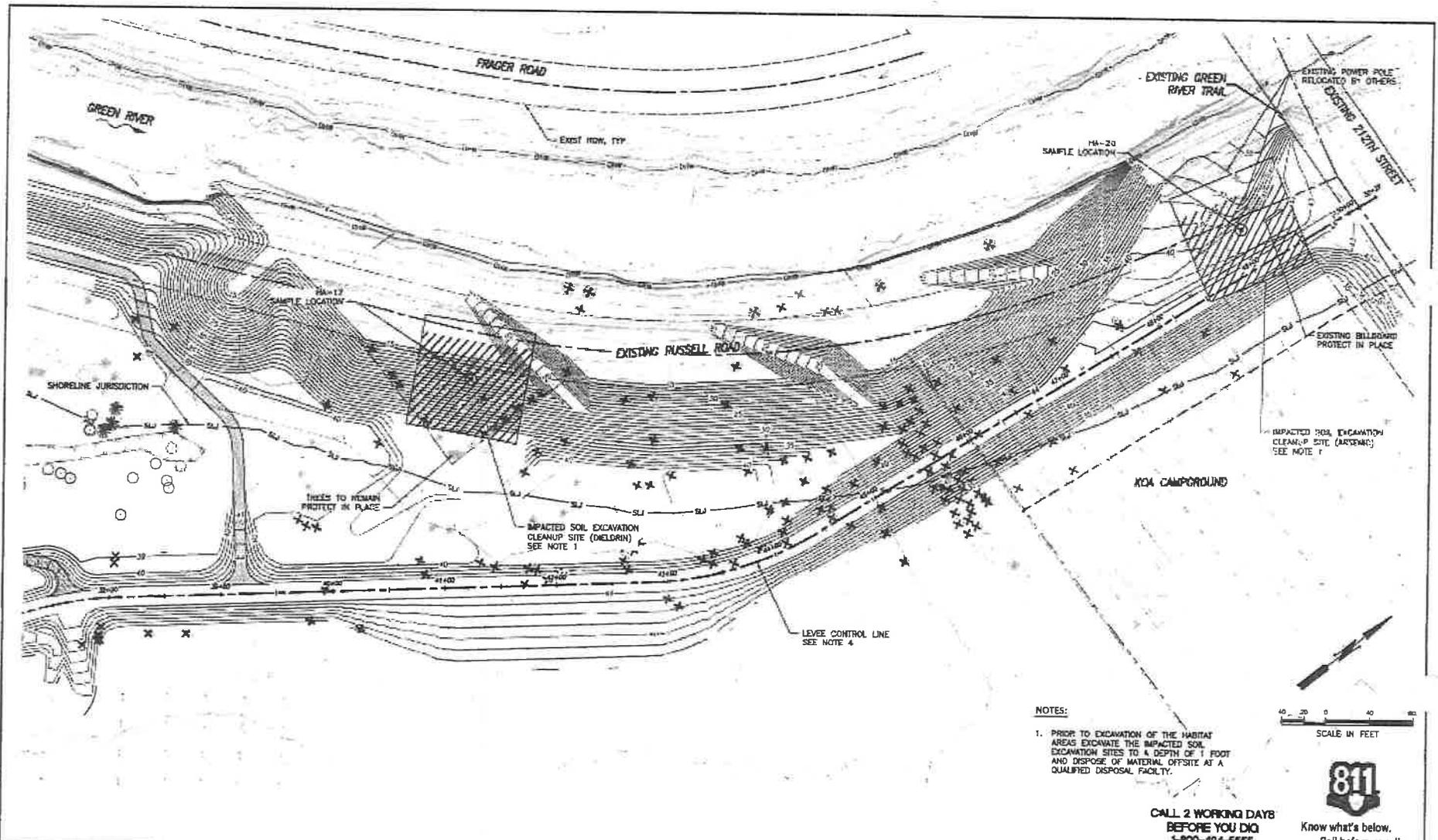
PLACING:
 PROJECT No. 1112056
 CONTRACT No. C01415C20



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie True, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 HABITAT AREA EXCAVATION 4**

SHEET
CHE-04



NOTES:

1. PRIOR TO EXCAVATION OF THE HABITAT AREAS EXCAVATE THE IMPACTED SOIL. EXCAVATION SITES TO A DEPTH OF 1 FOOT AND DISPOSE OF MATERIAL OFFSITE AT A QUALIFIED DISPOSAL FACILITY.

CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-484-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

Know what's below.
 Call before you dig.



SURVEY JOB NO./SOURCE:						FUNDING:	
CHECKED:						PROJECT No.	1112056
DWG. EXTENDED:	RD	11/19				CONTRACT No.	C01415C20
CHECKED:	VR	11/19	TRAL	REVISION	BY	DATE	
CHECKED:	KF	11/19					
SUPERVISOR:	SJ	11/19					
			TRAL	RECORD CHANGES APPROVED	BY	DATE	



King County
 Department of Natural Resources and Parks
 Water and Floodplain Management Division
 River and Floodplain Management Section
 Christie Tru, Director

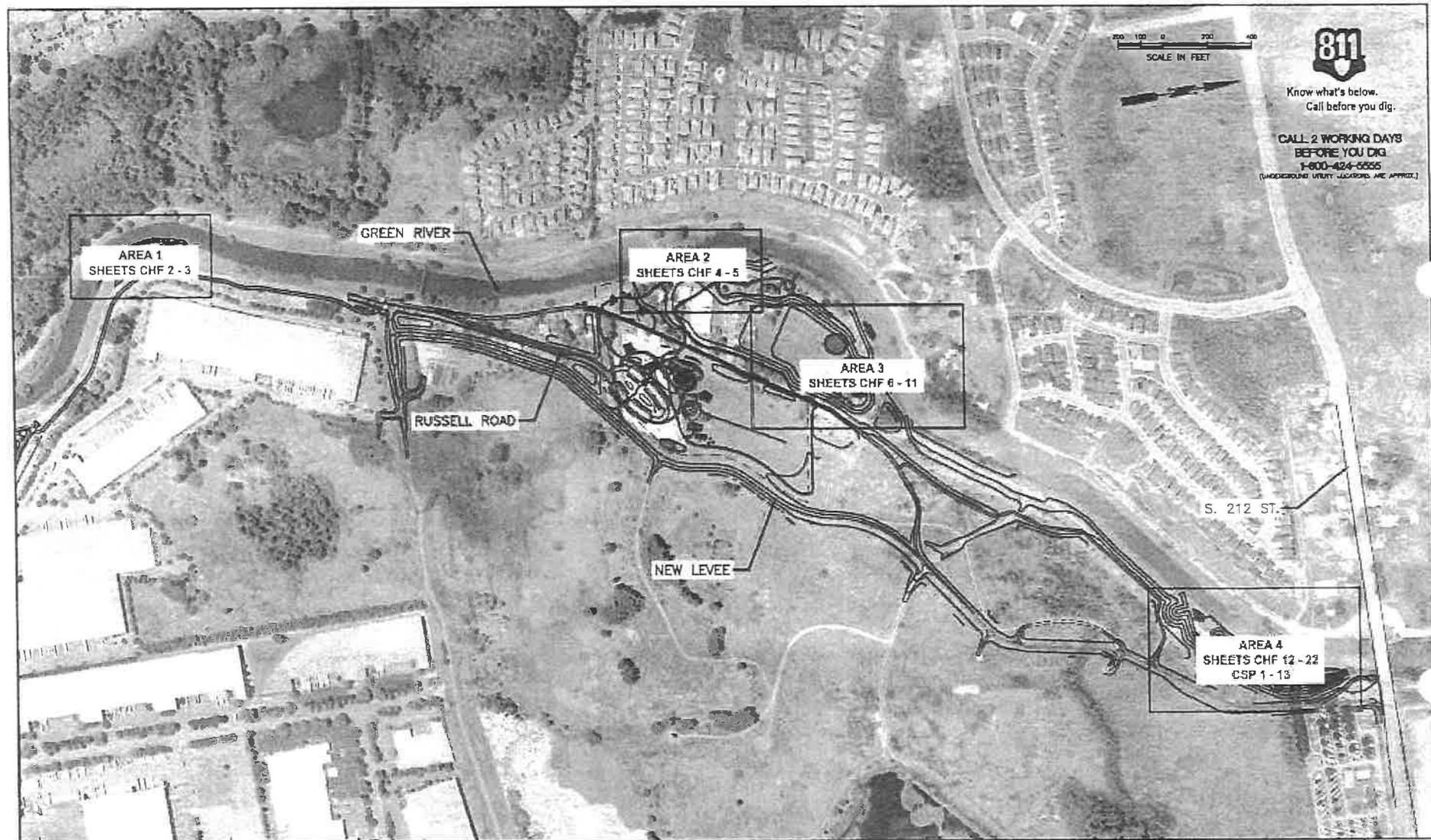
**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 CONTAMINATED SOIL
 REMOVAL SITES**

SHEET
CHE-05



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



SAVED JOB NO/SUBJOB:					
CHECKED:	DDH	10/19			
DATE ENTERED:	YGC	10/19	MAN	REVISION	BY DATE
CHECKED:	CTL	10/19			
SUPERVISOR:	YGC	10/19			
	MAN		RECORD CHANGES APPROVED	BY	DATE

FUNDING:	
PROJECT No.	1112056
CONTRACT No.	CO1415C20



nhc
northwest
hydraulic
consultants



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Trone, Director

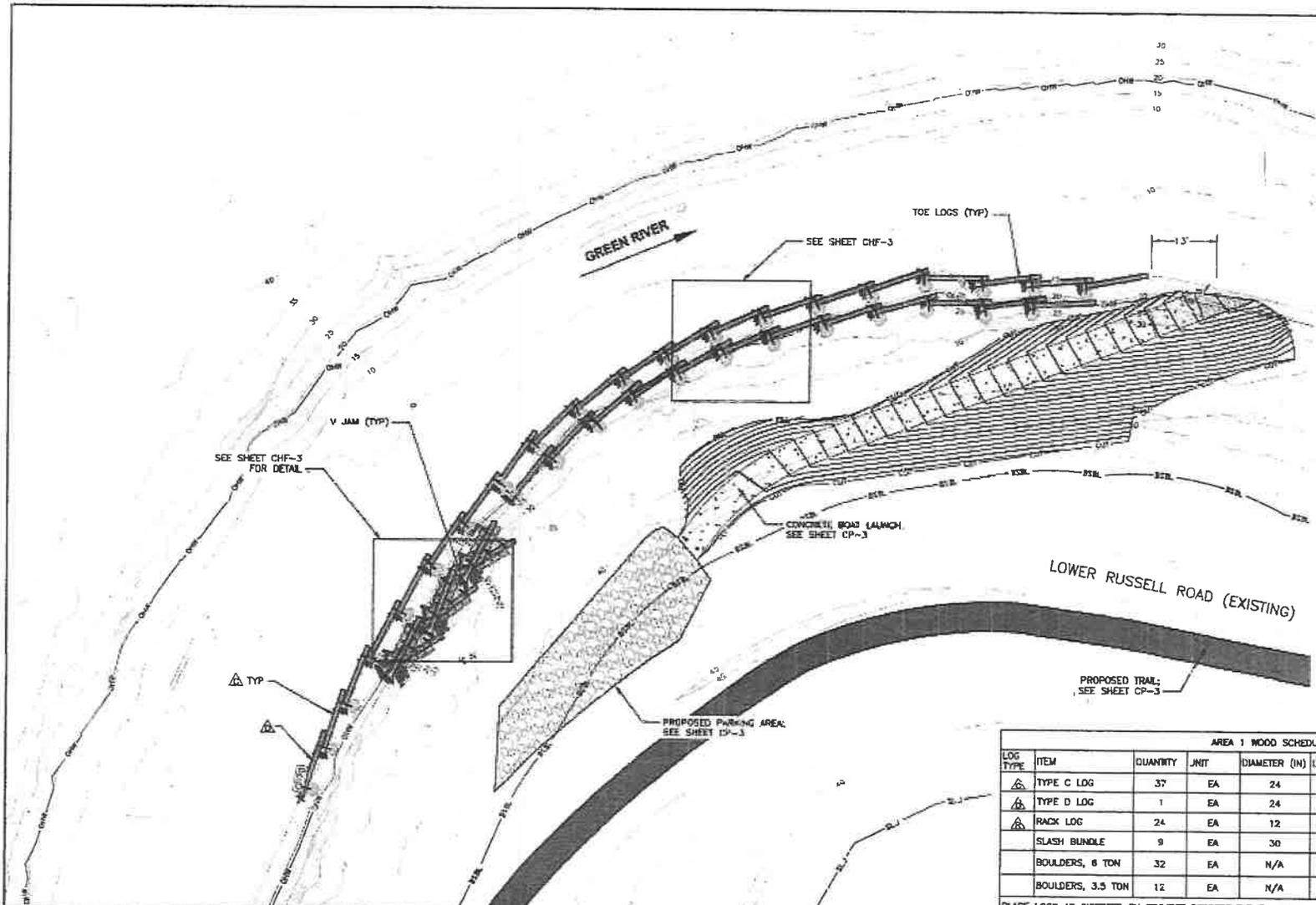
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
HABITAT WOOD & SCOUR PROTECTION
SITE PLAN & KEY MAP

SHEET
CHF-01



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



AREA 1 CONTROL POINT TABLE

CP	ITEM	NORTHING	EASTING
CP70	LOG END	148338.8	1283327.4

AREA 1 WOOD SCHEDULE

LOG TYPE	ITEM	QUANTITY	JNT	DIAMETER (IN)	LENGTH (FT)	DESCRIPTION
	TYPE C LOG	37	EA	24	30	ROOTWAD ATTACHED
	TYPE D LOG	1	EA	24	30	NO ROOTWAD
	RACK LOG	24	EA	12	12	8 RACK LOGS PER V JAM
	SLASH BUNDLE	9	EA	30	10 - 15	
	BOULDERS, 6 TON	32	EA	N/A	N/A	FOR TOE LOGS
	BOULDERS, 3.5 TON	12	EA	N/A	N/A	FOR V JAM

PLACE LOGS AS DIRECTED BY PROJECT REPRESENTATIVE. LAYOUT MAY VARY FROM THAT SHOWN IN DRAWINGS.

DATE	BY	REVISION
10/19	DDH	CHK'D
10/19	VOC	DESIGNED
10/19	CTL	CHECKED
10/19	VOC	SUPERVISOR

PLANNING

PROJECT No. 1112056

CONTRACT No. C01415C20

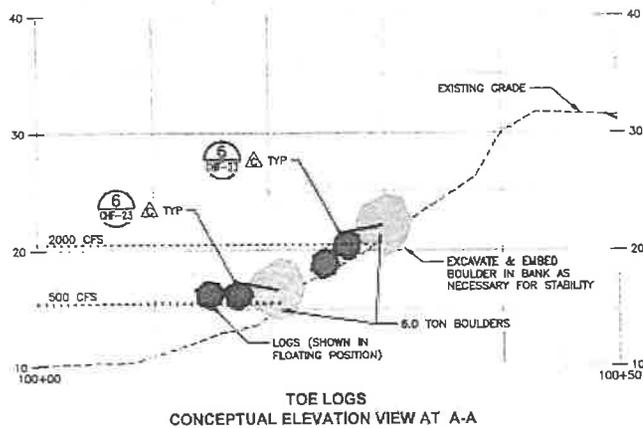
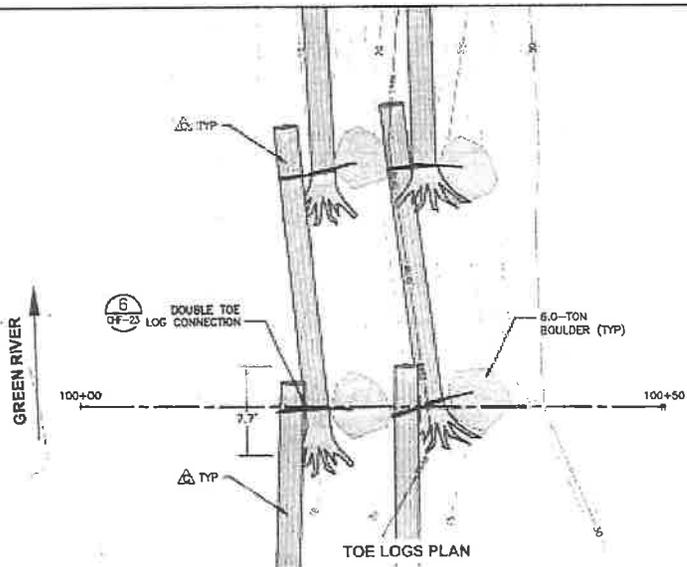


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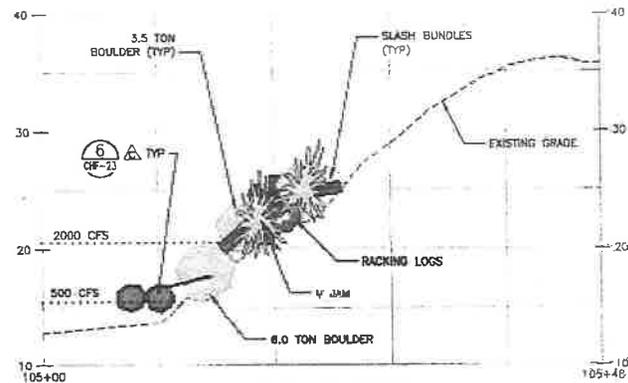
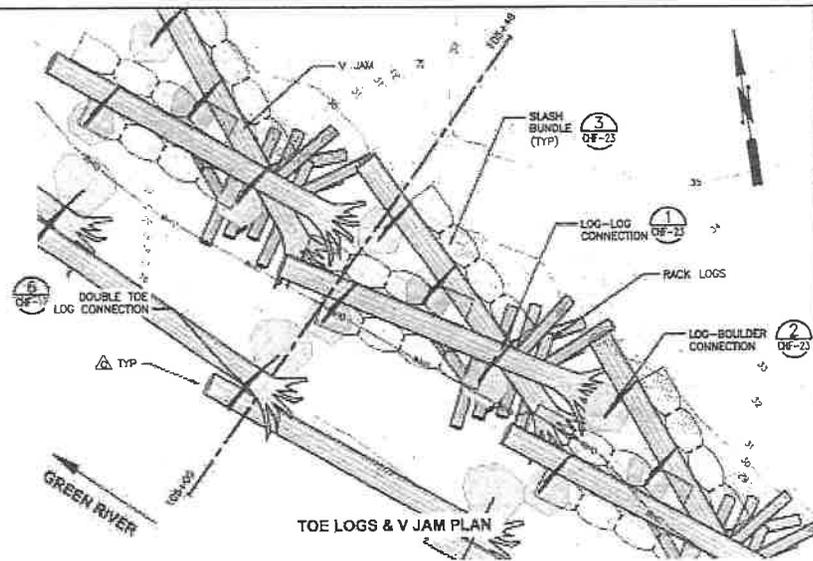
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
HABITAT WOOD AREA 1
PLAN

SHEET
CHF-02



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOGGERS ARE APPROX.)



NOTES:

1. RIVER WSEL AT 500 CFS (TYPICAL SUMMER FLOW) AND 2000 CFS SHOWN FOR REFERENCE.

TOE LOG SEQUENCE NOTES:

1. PLACE 6.0 TON BOULDER AT TOE OF SLOPE.
2. CONNECT TYPE C TOE LOGS TO EACH OTHER AND THE BOULDER WITH CHAIN.

V JAM SEQUENCE NOTES:

1. PLACE RACK LOGS ON SLOPE.
2. PLACE TYPE C LOGS IN "V" POSITION AS SHOWN AND SUCH THAT LOGS PIN RACK LOGS TO SLOPE & TOE LOG BOULDER SUPPORTS V JAM.
3. PLACE 3.5 TON BOULDERS AND SECURE TO V JAM LOGS. BOULDERS MAY BE PARTIALLY BURIED FOR STABILITY ON THE SLOPE.
4. ENSURE ALL PARTS OF V JAM ARE LANDWARD OF TOE LOGS & WILL NOT IMPEDE FREE FLOTATION OF TOE LOGS.
5. SECURE SLASH BUNDLES TO LOGS AS DIRECTED BY PROJECT REPRESENTATIVE.

SCALE IN FEET
0 2.5 5 10

SURVEY JOB NO./SUBJECT		FUNDCP#	
CHECKED BY		PROJECT No.	1112056
DATE ENTERED	DDM 10/18	CONTRACT No.	C01415C20
DESIGNED BY	VSC 10/18	REVISION	BY DATE
CHECKED BY	CTL 10/18		
SUPERVISOR	VSC 10/18		
	RECORD CHANGES APPROVED BY DATE		



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River and Floodplain Management Section
Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
HABITAT WOOD AREA 1
SECTION

SHEET
CHF-03

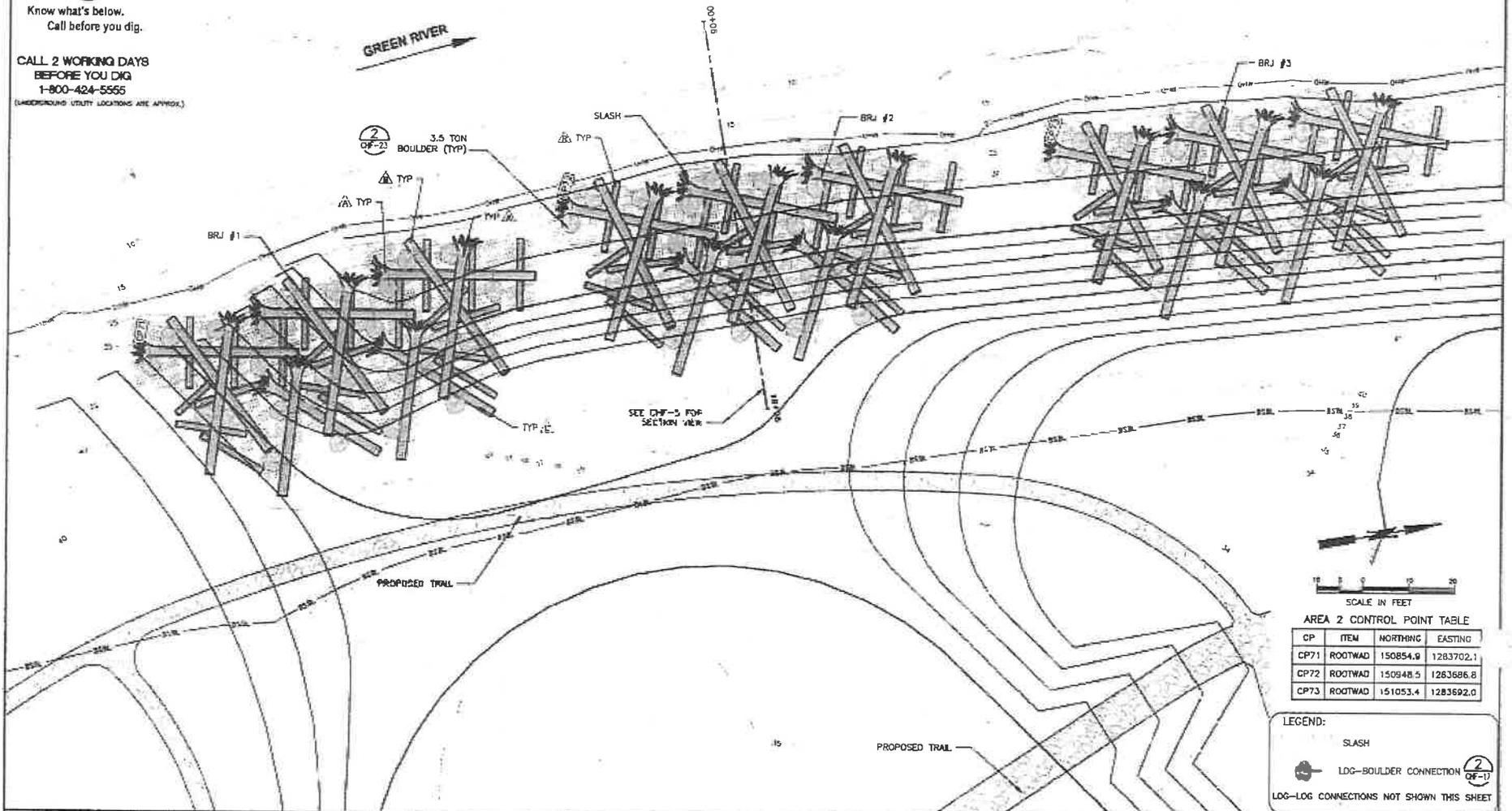


Know what's below.
Call before you dig.

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

GREEN RIVER



AREA 2 CONTROL POINT TABLE

CP	ITEM	NORTHING	EASTING
CP71	ROOTWAD	150854.9	1283702.1
CP72	ROOTWAD	150948.5	1283686.8
CP73	ROOTWAD	151053.4	1283692.0

LEGEND:

- SLASH
- LOG-BOULDER CONNECTION **2** OF-1
- LOG-LOG CONNECTIONS NOT SHOWN THIS SHEET

TURKEY JOB NO./SUBJOB:					
DESIGNED:	CEM	12/19			
CAD ENHANCED:	WGC	12/19	MLM	ROSAH	DT DATE
DESIGNED:	WGC	12/19			
CHECKED:	CTL	12/19			
SUPERVISOR:	WGC	12/19			
	PRM	RECORD CHANGES APPROVED	BY	DATE	

FUNDING:	
PROJECT No.	1112058
CONTRACT No.	CO1415C20

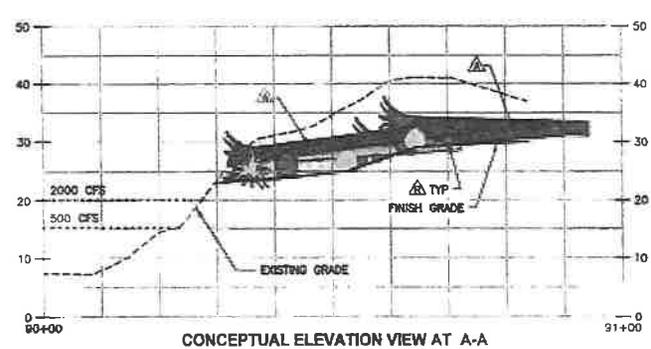
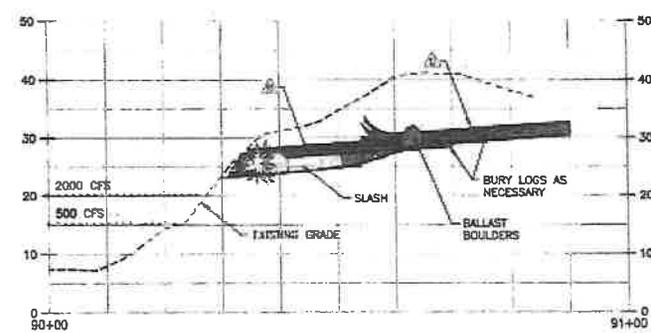
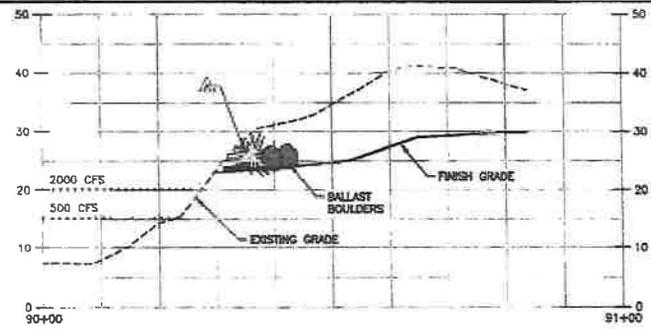
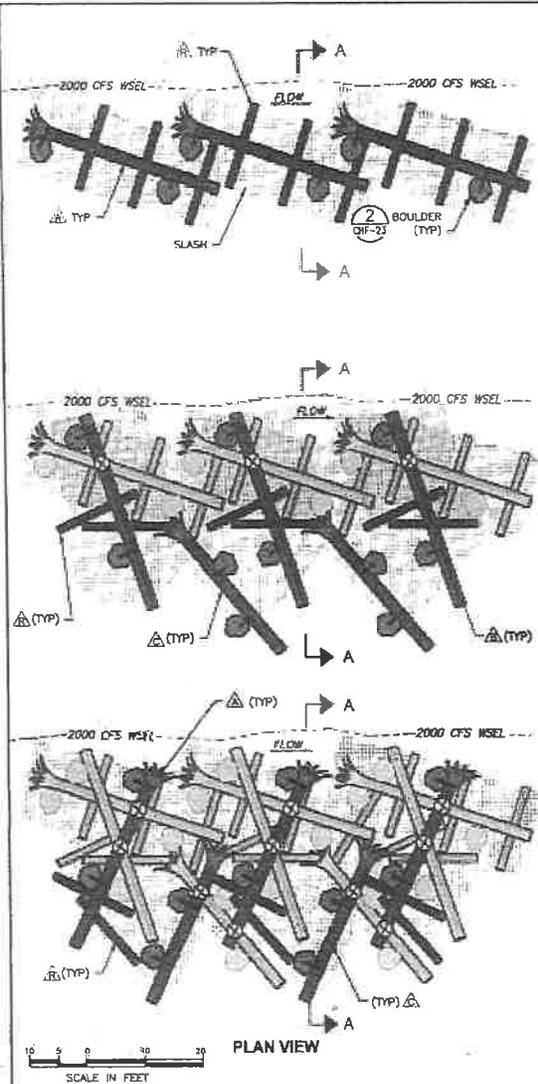


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Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
HABITAT WOOD AREA 2
PLAN

SHEET
CHF-04



- STEP 1**
- SEQUENCE NOTES:
1. PLACE 150 CY OF SLASH AS DIRECTED BY THE PROJECT REPRESENTATIVE.
 2. PLACE 9 RACK LOGS ON SLASH.
 3. PLACE AND SECURE 3 TYPE A LOGS.
 4. CONNECT BALLAST BOULDERS TO KEY LOGS.

AREA 2 WOOD SCHEDULE						
LOG TYPE	ITEM	QUANTITY	UNIT	DIAMETER (IN)	LENGTH (FT)	DESCRIPTION
△	TYPE A LOG	16	EA	24	35	ROOTWAD ATTACHED
△	TYPE B LOG	9	EA	24	35	NO ROOTWAD
△	TYPE C LOG	12	EA	24	30	ROOTWAD ATTACHED
△	RACKING LOGS	63	EA	12	12-20	
	SLASH	1,090	CY			REFER TO SPECIFICATIONS
	BOULDERS	78	EK	N/A	N/A	3.5-TON BOULDERS

PLACE LOGS AS DIRECTED BY PROJECT REPRESENTATIVE. LAYOUT MAY VARY FROM THAT SHOWN IN DRAWINGS.

- STEP 2**
- SEQUENCE NOTES:
1. PLACE 150 CY ADDITIONAL SLASH AS DIRECTED BY PROJECT REPRESENTATIVE (NOT SHOWN FOR CLARITY).
 2. PLACE 6 RACKING LOGS ON SLASH.
 3. PLACE 3 TYPE B LOGS, CHAIN TO UNDERLYING TYPE A LOGS, AND CONNECT BOULDERS TO TYPE B LOGS.
 4. PLACE 2 TYPE C LOGS AND CONNECT TO BOULDERS.

- STEP 3**
- SEQUENCE NOTES:
1. PLACE 60 CY SLASH AS DIRECTED BY PROJECT REPRESENTATIVE (NOT SHOWN FOR CLARITY).
 2. PLACE 6 RACK LOGS ON SLASH.
 3. PLACE 3 TYPE A LOGS.
 4. CONNECT 3 TYPE A LOGS TO ADJACENT LOGS.
 5. CONNECT BOULDERS TO 3 TYPE A LOGS.
 6. PLACE 2 TYPE C LOGS, CONNECT TO BOTTOM TYPE C LOGS, AND SECURE TO BOULDERS.



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

LEGEND:

△	LOG TYPE	①	LOG-LOG CONNECTION
⊕	LOG-LOG CONNECTION	②	LOG-BOULDER CONNECTION
⊙	LOG-BOULDER CONNECTION	③	LOG TYPE

- NOTES:
1. RIVER WSEL AT 500 CFS (TYPICAL SUMMER FLOW) SHOWN FOR REFERENCE. GROUNDWATER LEVELS WITHIN EXCAVATION LIMITS MAY VARY SIGNIFICANTLY FROM RIVER WSEL, WHICH MAY ALSO VARY.

SUPPORT JOB NO./DATE		REVISION	
CHECKED:			
DATE ENTERED:	DDH 10/19	BY:	
DESIGNED:	VDC 10/19	DATE:	
ENGINEER:	CTL 10/19		
SUPERVISOR:	VDC 10/19		
		RECORD CHANGES APPROVED:	BY: DATE

FUNDING:	
PROJECT No.	1112055
CONTRACT No.	CO1415C20

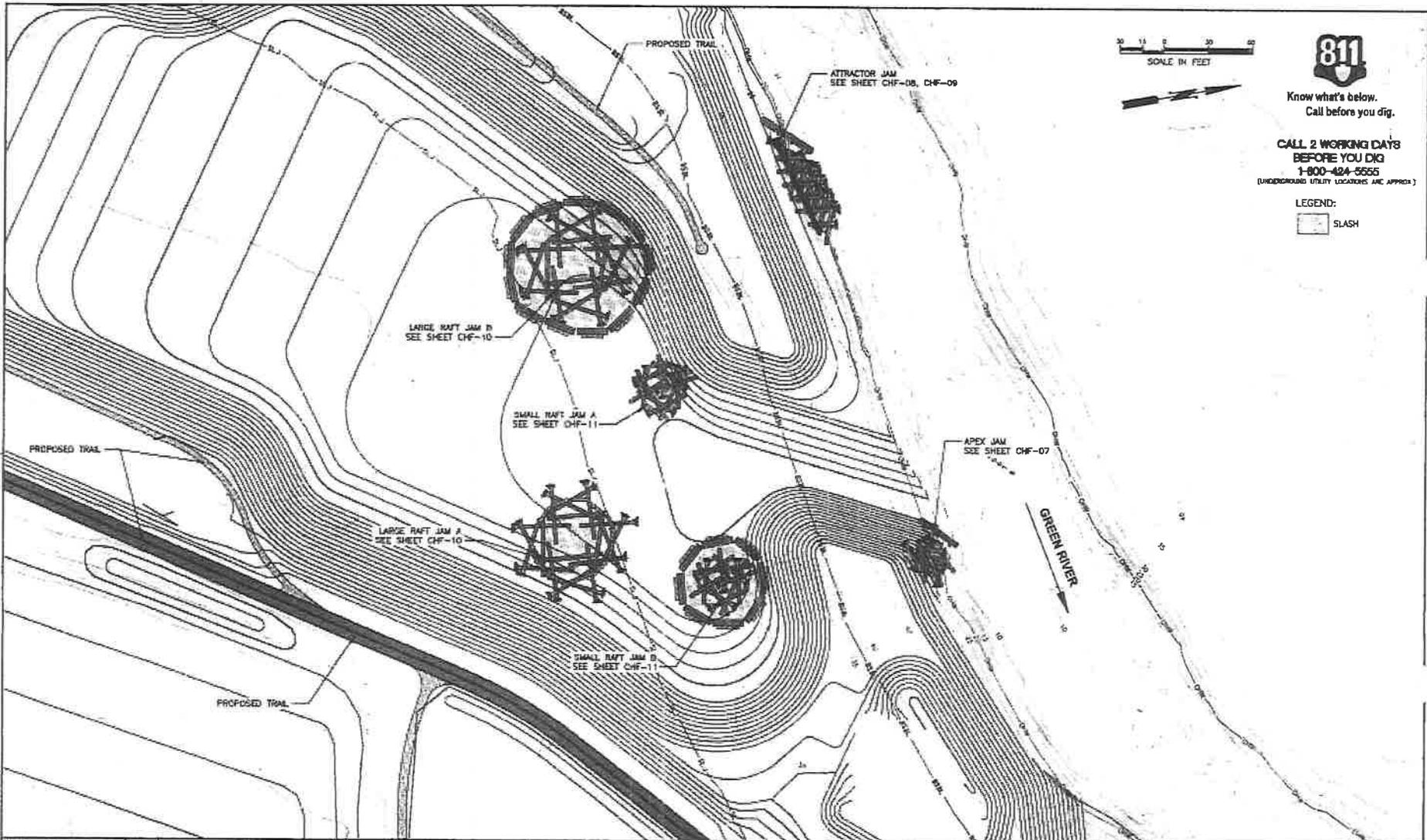


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Water and Land Resources Division
River and Floodplain Management Section
Christa True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
HABITAT WOOD AREA 2
BANK ROUGHENING JAM LAYERING PLAN

SHEET
CHF-05



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

LEGEND:
SLASH

STARTED JOB NO./SOURCE:					
CHANGED:					
CAD ENTERED:	DGH	10/2/10			
DESIGNED:	WDC	10/27/10	TRM	REVISION	BY DATE
CHECKED:	CTL	11/17/10			
SUPERVISOR:	WVC	12/1/10			
			TRM	RECORD CHANGES APPROVED	BY DATE

FUNDING:	
PROJECT No.	1112058
CONTRACT No.	001415C20

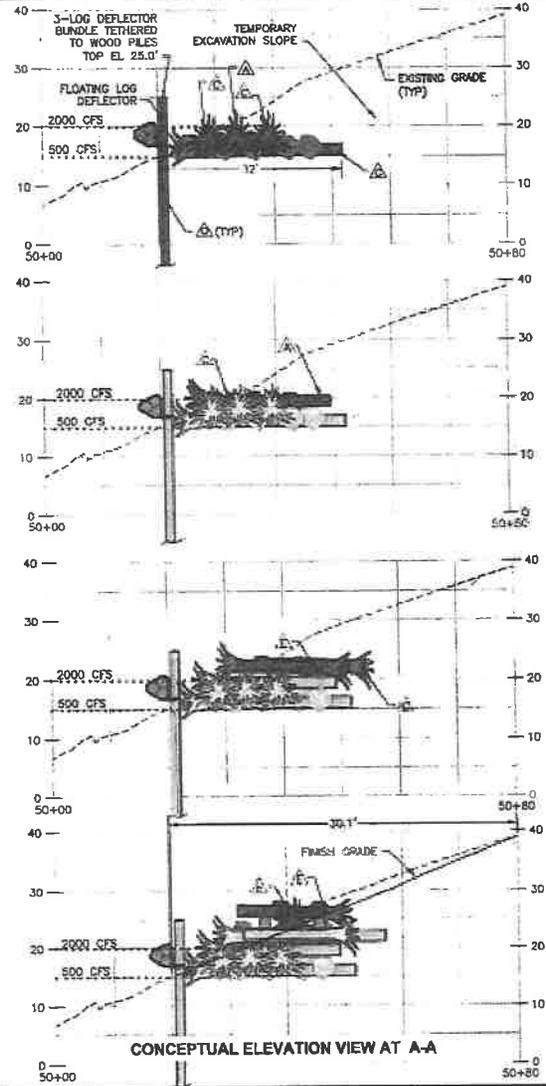
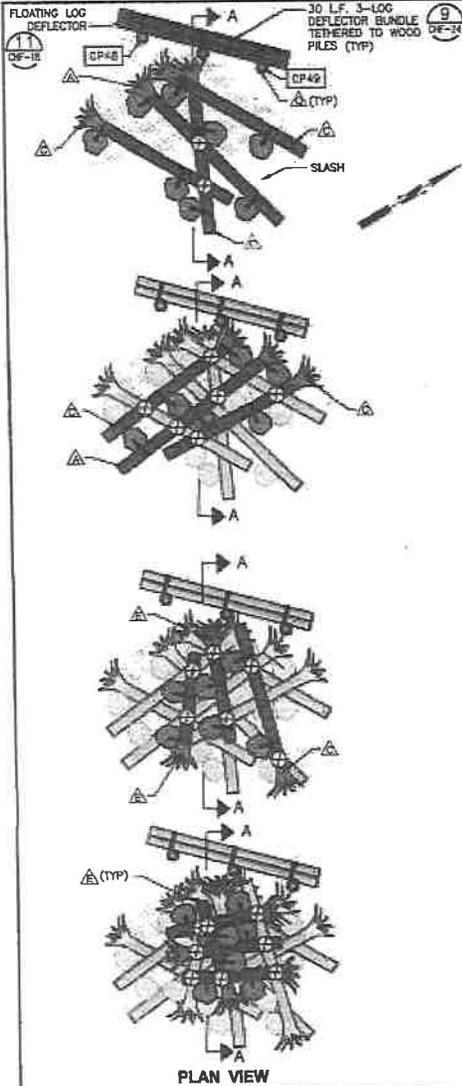


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River and Floodplain Management Section
Chris Tru, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
HABITAT WOOD AREA 3
PLAN

SHEET
CHF-06



STEP 1

- NOTES:
- EXCAVATE WORK SITE TO EL. 15.0' SUFFICIENT TO SEAT LOGS AND DAYLIGHT TEMPORARY CUT SLOPE UP TO EXISTING.
 - INSTALL 3 TYPE Q WOOD PILES.
 - ATTACH FLOATING LOG DEFLECTOR, CONSISTING OF 1 TYPE D LOGS, 3 TYPE Q LOGS, 3 TYPE D LOGS, 3 TYPE Q LOGS.
 - PLACE 20 CY OF SLASH LAYER OVER JAM FOOTPRINT AS SHOWN OR AS DIRECTED BY PROJECT REPRESENTATIVE.
 - PLACE 1 TYPE C LOG.
 - PLACE 2 TYPE C LOGS AND 1 TYPE A LOG.
 - MAKE 3 LOG-LOG CONNECTIONS AS SHOWN.
 - CONNECT 2 BOULDERS TO EACH LOG.



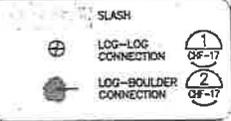
Know what's below.
Call before you dig.

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

STEP 2

- NOTES:
- PLACE 10 CY OF SLASH AS DIRECTED BY PROJECT REPRESENTATIVE (NOT SHOWN FOR CLARITY).
 - PLACE 2 TYPE C LOGS & 1 TYPE A LOG.
 - MAKE 6 LOG-LOG CONNECTIONS AS SHOWN.
 - CONNECT 2 BOULDERS TO EACH LOG.

LEGEND:



STEP 3

- NOTES:
- BACKFILL OVER STEPS 1 & 2 LOGS AND BUCKET COMPACT.
 - ADD 10 CY OF SLASH AS DIRECTED BY PROJECT REPRESENTATIVE (NOT SHOWN FOR CLARITY).
 - PLACE 1 TYPE C LOG AND 2 TYPE E LOGS.
 - MAKE 8 LOG-LOG CONNECTIONS.
 - CONNECT 2 BOULDERS TO EACH LOG.

STEP 4

- NOTES:
- ADD 10 CY OF SLASH AS DIRECTED BY PROJECT REPRESENTATIVE (NOT SHOWN FOR CLARITY).
 - PLACE 4 TYPE E LOGS.
 - TOP WITH 1 TYPE E LOG.
 - MAKE 8 LOG-LOG CONNECTIONS.
 - CONNECT 2 BOULDERS TO EACH LOG.
 - PLACE BACKFILL TO DESIGN GRADE.

APEX JAM CONTROL POINT TABLE

CP	ITEM	NORTHING	EASTING
CP88	PILE	151765.5	1284377.9
CP89	PILE	151780.7	1284392.8

APEX JAM WOOD SCHEDULE						
LOG TYPE	ITEM	QUANTITY	UNIT	DIAMETER (IN)	LENGTH (FT)	DESCRIPTION
△	TYPE A LOG	2	EA	24	35	ROOTWAD ATTACHED
△	TYPE C LOG	6	EA	24	30	ROOTWAD ATTACHED
△	TYPE D LOG	3	EA	24	30	NO ROOTWAD
△	TYPE E LOG	6	EA	24	20	ROOTWAD ATTACHED
	SLASH	50	CY			REFER TO SPECIFICATIONS
△	TYPE Q (PILE)	3	EA	18	50	35' MIN. DRIVE DEPTH
	3.5 TON BOULDER	28	EA	N/A	N/A	

NOTE:
1. RIVER WSEL AT 500 CFS (TYPICAL SUMMER FLOW) SHOWN FOR REFERENCE. GROUNDWATER LEVELS WITHIN EXCAVATION LIMITS MAY VARY SIGNIFICANTLY FROM RIVER WSEL, WHICH MAY ALSO VARY.

SURVEY JOB NO./SOURCE:		FUNDING:	
CHECKED: DDH 10/19		PROJECT No. 1112056	
DATE EXTEND: VDC 12/19	NUM. REVISION	CONTRACT No. C01415C20	
DESIGNED: VDC 12/19			
CHECKED: CTL 12/19			
SUPERVISOR: VDC 12/19			
	NUM. RECORD CHANGES APPROVED	BY	DATE



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Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
HABITAT WOOD AREA 3
APEX JAM LAYERING PLAN

SHEET
CHF-07

DATE	BY	REVISION
11/20/26	BR	RECORD CHANGES APPROVED
11/20/26	BR	PROJECT NO.
11/20/26	BR	CONTRACT NO.

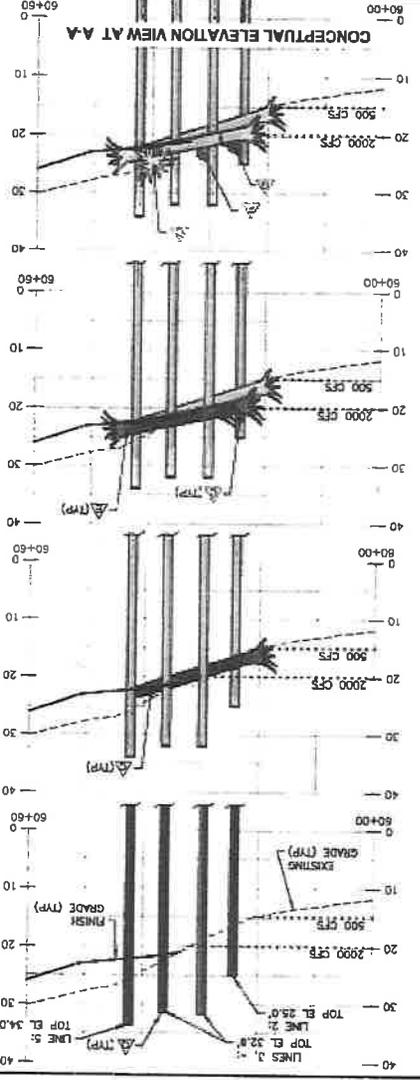
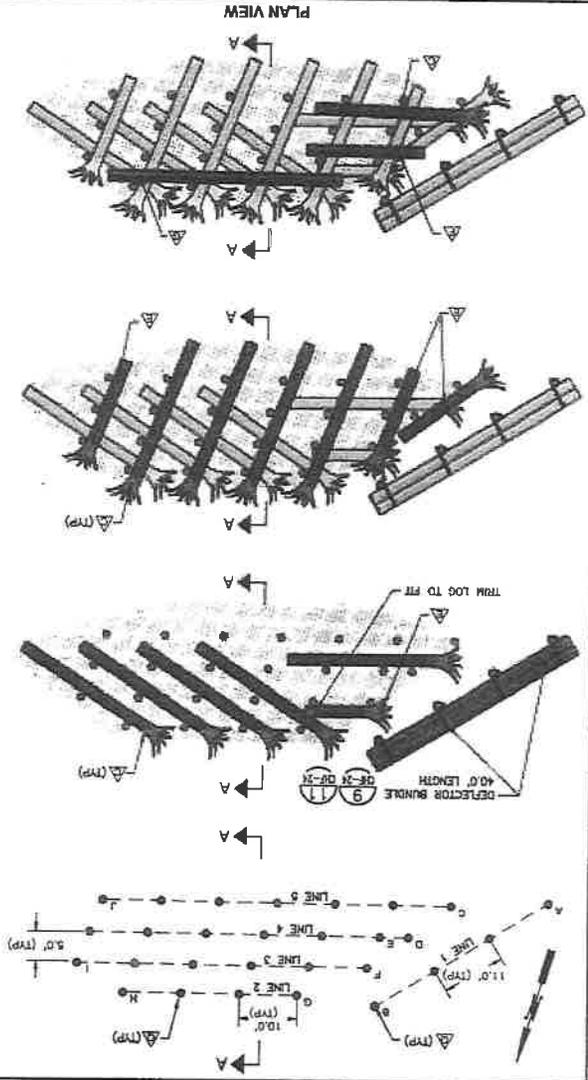


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River and Floodplain Management Section
Charlie Tom, Director

LOWER RUSSELL LEVEL SETBACK PROJECT
PHASE 2
HABITAT WOOD AREA 3 - ATTRACTOR
JAM LAYERING PLAN A

SHEET
CHF-08



NOTE:
1. INSTALL 28 TYPE C WOOD PILES, 35.0' DRIVE DEPTH.
2. PILE LINE ARE AT 5' SPACING.
3. PILES WITHIN EACH ROW ARE AT 10' SPACING, EXCEPT PILE LINES 1 AND PILES 4 & E.
4. PILE LINE 1 TOP ELEVATION OF 25.0'.
STEP 1

NOTES:
1. ADJUST FINISH GRADE BETWEEN PILES AS DIRECTED BY PROJECT REPRESENTATIVE.
2. PLACE 150 CF OF SLASH AS REPRESENTATIVE DIRECTED BY PROJECT REPRESENTATIVE.
3. PLACE A TYPE C LOG AND 1 TYPE E LOG.
4. CONNECT LOGS TO TYPE C WOOD PILES (18).
5. INSTALL 3-LOG (TYPE D) DEFLECTOR BUNDLE.
STEP 2

NOTES:
1. ADD 100 CF OF SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
2. PLACE 4 TYPE C LOGS & 1 TYPE E LOGS.
3. CONNECT LOGS TO ADJACENT TYPE C WOOD PILES (24).
STEP 3

NOTES:
1. ADD 40 CF OF SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
2. PLACE 1 TYPE C LOG, 1 TYPE F LOG, & 1 TYPE G LOG.
3. CONNECT LOGS TO ADJACENT TYPE C WOOD PILES (24).
STEP 4

NOTE:
1. RIVER WSEL AT 500 CFS (TYPICAL) SHOWN FOR REFERENCE. GROUNDWATER LEVELS WITHIN EXCAVATION LIMITS MAY VARY SIGNIFICANTLY FROM RIVER WSEL, WHICH MAY ALSO VARY.
CONCEPTUAL ELEVATION VIEW AT A-A

SCALE IN FEET
0 5 10 20

LEGEND:
SLASH

AREA 3 WOOD SCHEDULE

LOG TYPE	DESCRIPTION	QUANTITY	UNIT	DIMENSION (L x W)	LENGTH (FT)
EA	NO ROOTWAD ATTACHED	16	EA	24	30
EA	ROOTWAD ATTACHED	24	EA	24	20
EA	NO ROOTWAD	7	EA	24	40
EA	NO ROOTWAD	24	EA	24	40
EA	NO ROOTWAD	24	EA	24	50
EA	NO ROOTWAD	28	EA	24	50

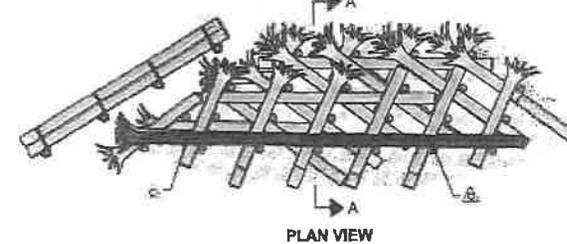
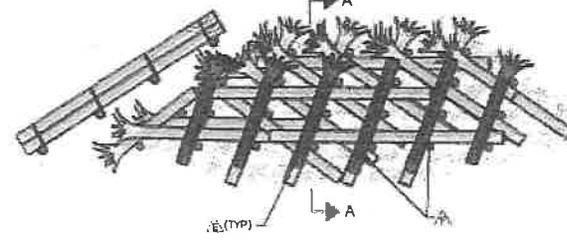
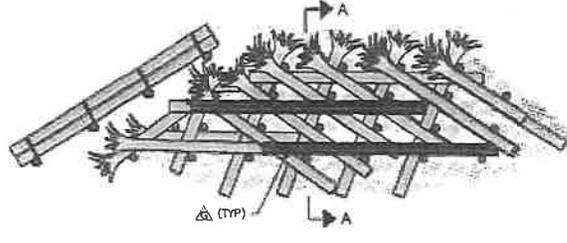
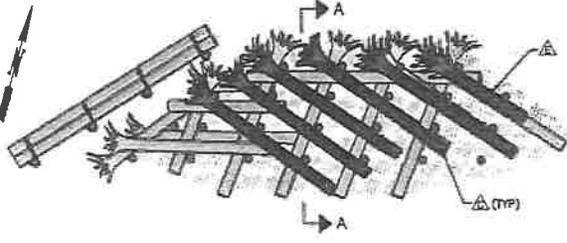
ATTRACTOR JAM CONTROL POINT TABLE

CP	NORTHING	EASTING	CP#78	CP#79	CP#80	CP#81	CP#82	CP#83	CP#84	CP#85	CP#86	CP#87
PILE	151702.4	128409.37	151729.2	1284119.9	151708.9	1284109.6	151716.2	1284115.0	151717.6	1284119.9	151723.4	1284120.8
PILE	151702.4	128409.37	151729.2	1284119.9	151708.9	1284109.6	151716.2	1284115.0	151717.6	1284119.9	151723.4	1284120.8
PILE	151725.8	1284167.1										

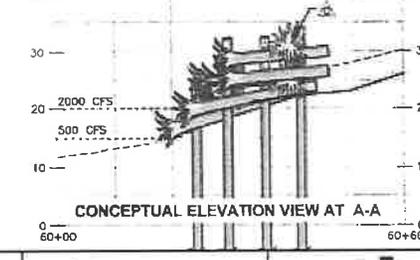
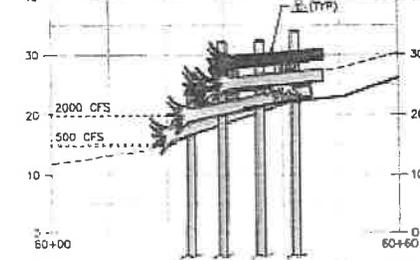
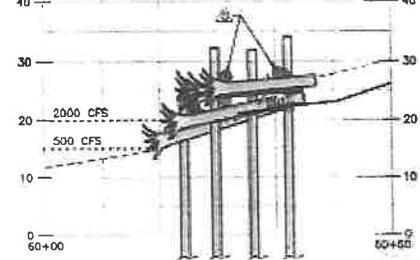
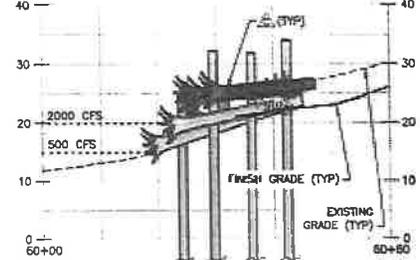
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
UNSATURATED UNITS LOCATIONS ARE APPROX.

Know what's below.
Call before you dig.

DATE: 11/20/26
BY: BR
PROJECT NO.: 1112026
CONTRACT NO.: C01415020



PLAN VIEW



CONCEPTUAL ELEVATION VIEW AT A-A

STEP 5

- NOTES:
 1. ADD 100 CY OF SLASH AS DIRECTED BY PROJECT REPRESENTATIVE (NOT SHOWN FOR CLARITY).
 2. PLACE 5 TYPE C LOGS & 1 TYPE E LOG.
 3. CONNECT LOGS TO ADJACENT TYPE Q WOOD PILES (17)

STEP 6

- NOTES:
 1. ADD 30 CY OF SLASH AS DIRECTED BY PROJECT REPRESENTATIVE (NOT SHOWN FOR CLARITY).
 2. PLACE 2 TYPE G LOGS.
 3. CONNECT LOGS TO ADJACENT TYPE Q WOOD PILES (8)

STEP 7

- NOTES:
 1. ADD 100 CY OF SLASH AS DIRECTED BY PROJECT REPRESENTATIVE (NOT SHOWN FOR CLARITY).
 2. PLACE 4 TYPE E LOGS & 2 TYPE F LOGS.
 3. CONNECT LOGS TO ADJACENT TYPE Q WOOD PILES (18).

STEP 8

- NOTES:
 1. ADD 30 CY OF SLASH AS DIRECTED BY PROJECT REPRESENTATIVE (NOT SHOWN FOR CLARITY).
 2. PLACE 1 TYPE C LOG & 1 TYPE G LOG.
 3. CONNECT LOGS TO ADJACENT TYPE Q WOOD PILES (7).

NOTE:
 1. RIVER WSEL AT 500 CFS (TYPICAL SUMMER FLOW) SHOWN FOR REFERENCE. GROUNDWATER LEVELS WITHIN EXCAVATION LIMITS MAY VARY SIGNIFICANTLY FROM RIVER WSEL, WHICH MAY ALSO VARY.



Know what's below.
 Call before you dig.

CALL 2 WORKING DAYS
 BEFORE YOU DIG
 1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



SCALE IN FEET

SURVEY JOB NO./SOURCE:			
CHECKED:			
CAD ENTERED:	DCH	10/19	
DESIGNED:	VDC	10/19	
CHECKED:	CTL	10/19	
SUPERVISOR:	VDC	10/19	
	NUM.	RECORD CHANGES APPROVED	BY DATE

PROJECT No. 1112056
 CONTRACT No. C92415C20

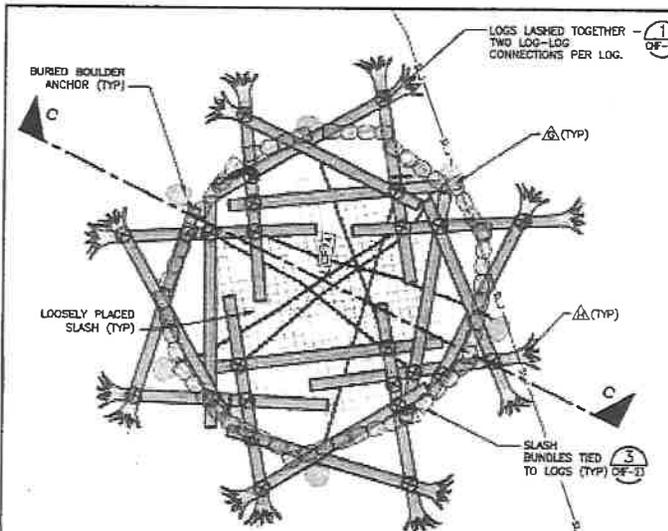


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 Fire and Floodplain Management Section
 Christine True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 HABITAT WOOD AREA 3 - ATTRACTOR
 JAM LAYERING PLAN B

SHEET
 CHF-09

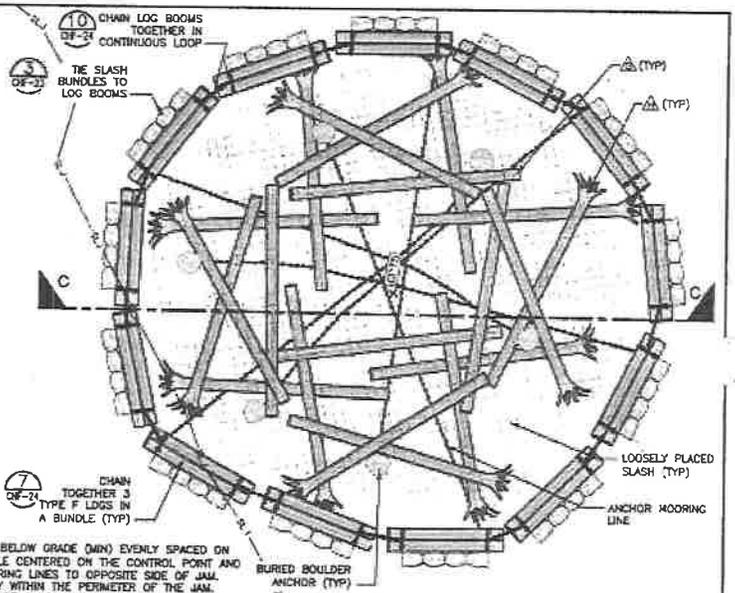


LARGE RAFT JAM A WOOD SCHEDULE						
LOG TYPE	ITEM	QUANTITY	UNIT	DIAMETER (IN)	LENGTH (FT)	DESCRIPTION
△	TYPE G LOG	4	EA	24	40	NO ROOTWAD
△	TYPE H LOG	16	EA	24	40	ROOTWAD ATTACHED
	SLASH BUNDLE	14	EA	30	10-15	UNCOMPACTED DIAMETER; 1.4 C.Y. EACH
	SLASH	400	CY	REFER TO SPECIFICATIONS		
	3.5 TON BOULDER	6	EA	N/A	N/A	

PLACE LOGS AS DIRECTED BY PROJECT REPRESENTATIVE. LAYOUT MAY VARY FROM THAT SHOWN IN DRAWINGS.

LARGE RAFT JAM B WOOD SCHEDULE						
LOG TYPE	ITEM	QUANTITY	UNIT	DIAMETER (IN)	LENGTH (FT)	DESCRIPTION
△	TYPE F LOG	39	EA	24	20	NO ROOTWAD
△	TYPE G LOG	4	EA	24	40	NO ROOTWAD
△	TYPE H LOG	16	EA	24	40	ROOTWAD ATTACHED
	SLASH BUNDLE	13	EA	30	12	UNCOMPACTED DIAMETER; 1.4 C.Y. EACH
	SLASH	800	CY	REFER TO SPECIFICATIONS		
	3.5 TON BOULDER	6	EA	N/A	N/A	

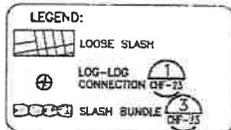
PLACE LOGS AS DIRECTED BY PROJECT REPRESENTATIVE. LAYOUT MAY VARY FROM THAT SHOWN IN DRAWINGS.



Know what's below.
Call before you dig.

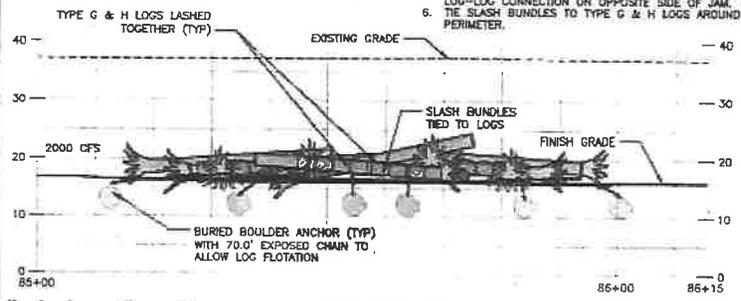
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5665
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

LARGE RAFT JAM CONTROL POINT TABLE:			
CP74	CENTER A	151530.7	1284344.7
CP75	CENTER B	151564.7	1284167.5



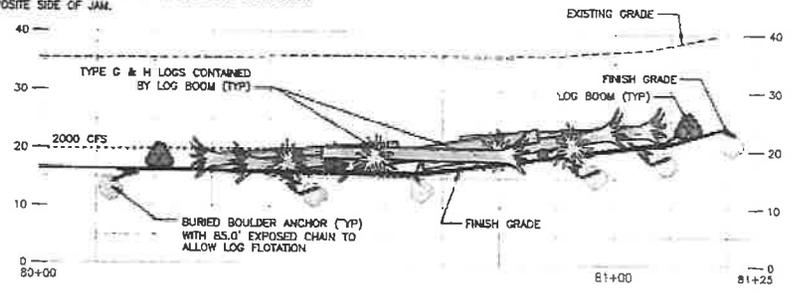
- SEQUENCING NOTES:
- BURY BOULDERS 12" BELOW GRADE (MIN) EVENLY SPACED ON A 60' DIAMETER CIRCLE CENTERED ON THE CONTROL POINT AND EXTEND ANCHOR MOORING LINE OUT TO OPPOSITE SIDE OF JAM.
 - PLACE SLASH LOOSELY WITHIN THE MIDDLE OF THE JAM.
 - PLACE LOGS ON THE FINISH GRADE AS SHOWN.
 - CONNECT OVERLAPPING LOGS WITH CHAIN & SECURE TWO LOG-LOG CONNECTIONS PER LOG (MIN).
 - CONNECT BURIED BOULDER ANCHOR MOORING LINES TO A LOG-LOG CONNECTION ON OPPOSITE SIDE OF JAM.
 - THE SLASH BUNDLES TO TYPE G & H LOGS AROUND THE PERIMETER.

- SEQUENCING NOTES:
- BURY BOULDERS 12" BELOW GRADE (MIN) EVENLY SPACED ON A 60' DIAMETER CIRCLE CENTERED ON THE CONTROL POINT AND EXTEND ANCHOR MOORING LINES TO OPPOSITE SIDE OF JAM.
 - PLACE SLASH LOOSELY WITHIN THE PERIMETER OF THE JAM.
 - PLACE TYPE H AND TYPE G LOGS LOOSE WITHIN AN 80.0' DIAMETER PERIMETER AS SHOWN.
 - CONSTRUCT 13 LOG BOOMS BY BUNDLING 3 TYPE F LOGS WITH CHAIN.
 - CHAIN LOG BOOMS TOGETHER SURROUNDING LOOSELY PLACED INTERIOR LOGS.
 - THE SLASH BUNDLES TO LOG BOOMS.
 - CONNECT ANCHOR MOORING LINES TO LOG BOOM CONNECTION AT OPPOSITE SIDE OF JAM.



LARGE RAFT JAM A
CONCEPTUAL ELEVATION VIEW AT C-C

- NOTES:
- RIVER WEEL AT 500 CFS (TYPICAL SUMMER FLOW) SHOWN FOR REFERENCE. GROUNDWATER LEVELS WITHIN EXCAVATION LIMITS MAY VARY SIGNIFICANTLY FROM RIVER WEEL, WHICH MAY ALSO VARY.
 - 3-LOG BUNDLE BOOM IS ONLY INSTALLED ON LARGE RAFT JAM B & SMALL RAFT JAM B.



LARGE RAFT JAM B
CONCEPTUAL ELEVATION VIEW AT C-C

SURVEY JOB NO./SUBJECT:		DRAWING:	
CHECKED:		DATE:	
CAD ENTERED:	DDH 10/18	PROJECT No.:	1112056
DESIGNED:	VDC 10/18	CONTRACT No.:	CO1415620
CHECKED:	CTL 10/19		
SUPERVISOR:	VDC 10/19		
		RECORD CHANGES APPROVED BY DATE	

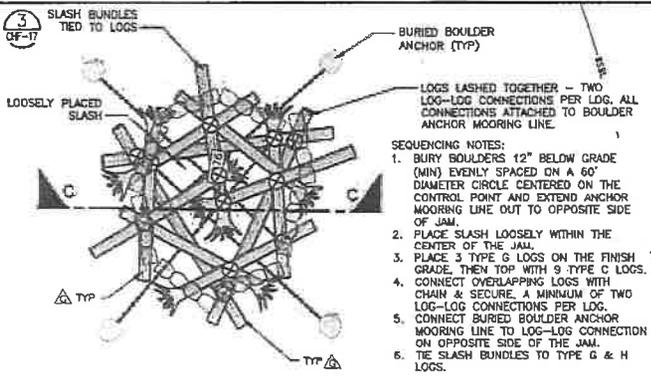


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King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Trice, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
HABITAT WOOD AREA 3
LARGE RAFT JAM

SHEET
CHF-10



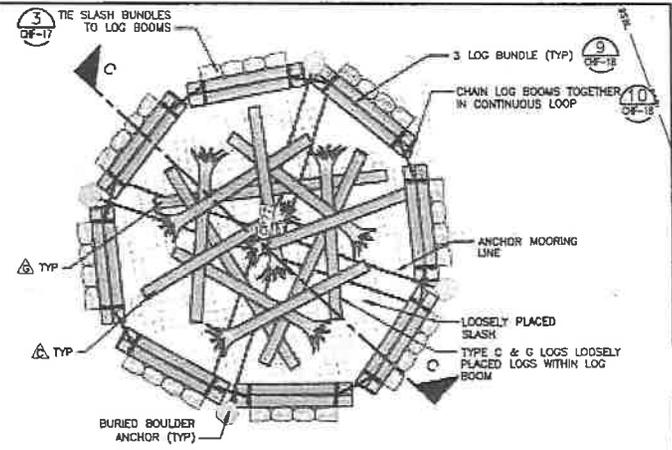
SMALL RAFT JAM A PLAN

SMALL RAFT JAM A WOOD SCHEDULE						
LOG TYPE	ITEM	QUANTITY	UNIT	DIAMETER (IN)	LENGTH (FT)	DESCRIPTION
△	TYPE C LOG	9	EA	24	30	ROOTWAD ATTACHED
△	TYPE G LOG	3	EA	24	40	NO ROOTWAD
	SLASH BUNDLE	8	EA	30	10 - 15	UNCOMPACTED DIAMETER; 1.4 C.Y. EACH
	SLASH	60	CY			REFER TO SPECIFICATIONS
	3.5 TON BOULDER	4	EA	N/A	N/A	

PLACE LOGS AS DIRECTED BY PROJECT REPRESENTATIVE. LAYOUT MAY VARY FROM THAT SHOWN IN DRAWINGS.

SMALL RAFT JAM B WOOD SCHEDULE						
LOG TYPE	ITEM	QUANTITY	UNIT	DIAMETER (IN)	LENGTH (FT)	DESCRIPTION
△	TYPE C LOG	9	EA	24	30	ROOTWAD ATTACHED
△	TYPE F LOG	24	EA	24	20	NO ROOTWAD
△	TYPE G LOG	3	EA	24	40	NO ROOTWAD
	SLASH BUNDLE	8	EA	30	10 - 15	UNCOMPACTED DIAMETER; 1.4 C.Y. EACH
	SLASH	400	CY			REFER TO SPECIFICATIONS
	3.5 TON BOULDER	4	EA	N/A	N/A	

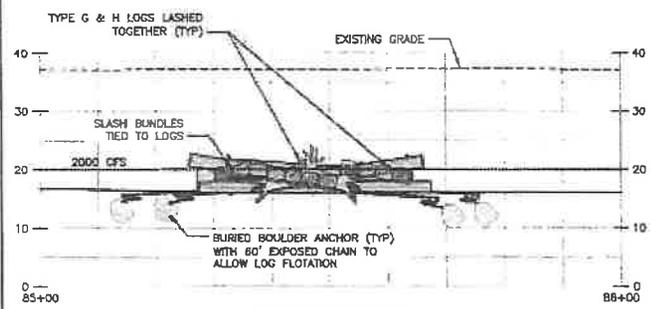
PLACE LOGS AS DIRECTED BY PROJECT REPRESENTATIVE. LAYOUT MAY VARY FROM THAT SHOWN IN DRAWINGS.



SMALL RAFT JAM B PLAN

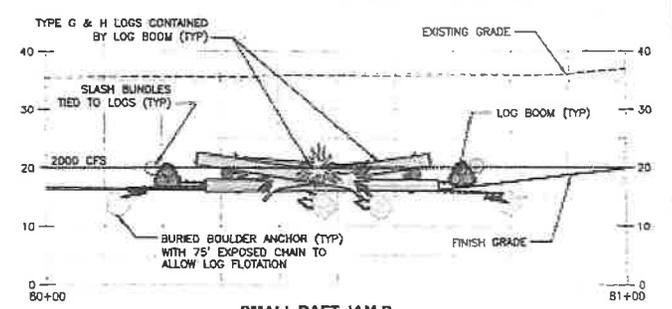
- SEQUENCING NOTES:
- BURY BOULDERS 12" BELOW GRADE (MIN) EVENLY SPACED ON A 60' DIAMETER CIRCLE CENTERED ON THE CONTROL POINT AND EXTEND ANCHOR MOORING LINE OUT TO OPPOSITE SIDE OF JAM.
 - PLACE SLASH LOOSELY WITHIN THE CENTER OF THE JAM.
 - LOOSELY PLACE 3 TYPE G LOGS AND 9 TYPE C LOGS WITHIN A 45.0' DIAMETER CIRCLE.
 - CONSTRUCT 8 LOG BOOMS BY BUNDLING 3 TYPE F LOGS WITH CHAIN.
 - CHAIN LOG BOOMS TOGETHER SURROUNDING LOOSELY PLACED INTERIOR LOGS.
 - TIE SLASH BUNDLES TO LOG BOOMS.
 - CONNECT ANCHOR MOORING LINES TO LOG BOOM CONNECTION ON OPPOSITE SIDE OF JAM.

SMALL RAFT JAM CONTROL POINT TABLE				
CP	ITEM	NORTHING	EASTING	
CP78	CENTER A	151606.5	1284255.6	
CP77	CENTER B	151624.8	1284392.6	



SMALL RAFT JAM A CONCEPTUAL ELEVATION VIEW AT C-C

NOTE:
 1. RIVER WSEL AT 500 CFS (TYPICAL SUMMER FLOW) SHOWN FOR REFERENCE. GROUNDWATER LEVELS WITHIN EXCAVATION LIMITS MAY VARY SIGNIFICANTLY FROM RIVER WSEL, WHICH MAY ALSO VARY.



SMALL RAFT JAM B CONCEPTUAL ELEVATION VIEW AT C-C



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

LEGEND:

- LOOSE SLASH
- LOG-LOG CONNECTION DF-17
- SLASH BUNDLE DF-17

SURVEY JOB NO./SOURCE:					
CHECKED:	DDN	10/18			
CAD ENTERED:	VDC	10/18	MAN.	REVISION	BY DATE
DESIGNED:	CTL	10/18			
CHECKED:	VDC	10/18			
SUPERVISOR:					
			RECORD CHANGES APPROVED	BY	DATE

FUNDING:	
PROJECT No.	1112056
CONTRACT No.	CD1415C20

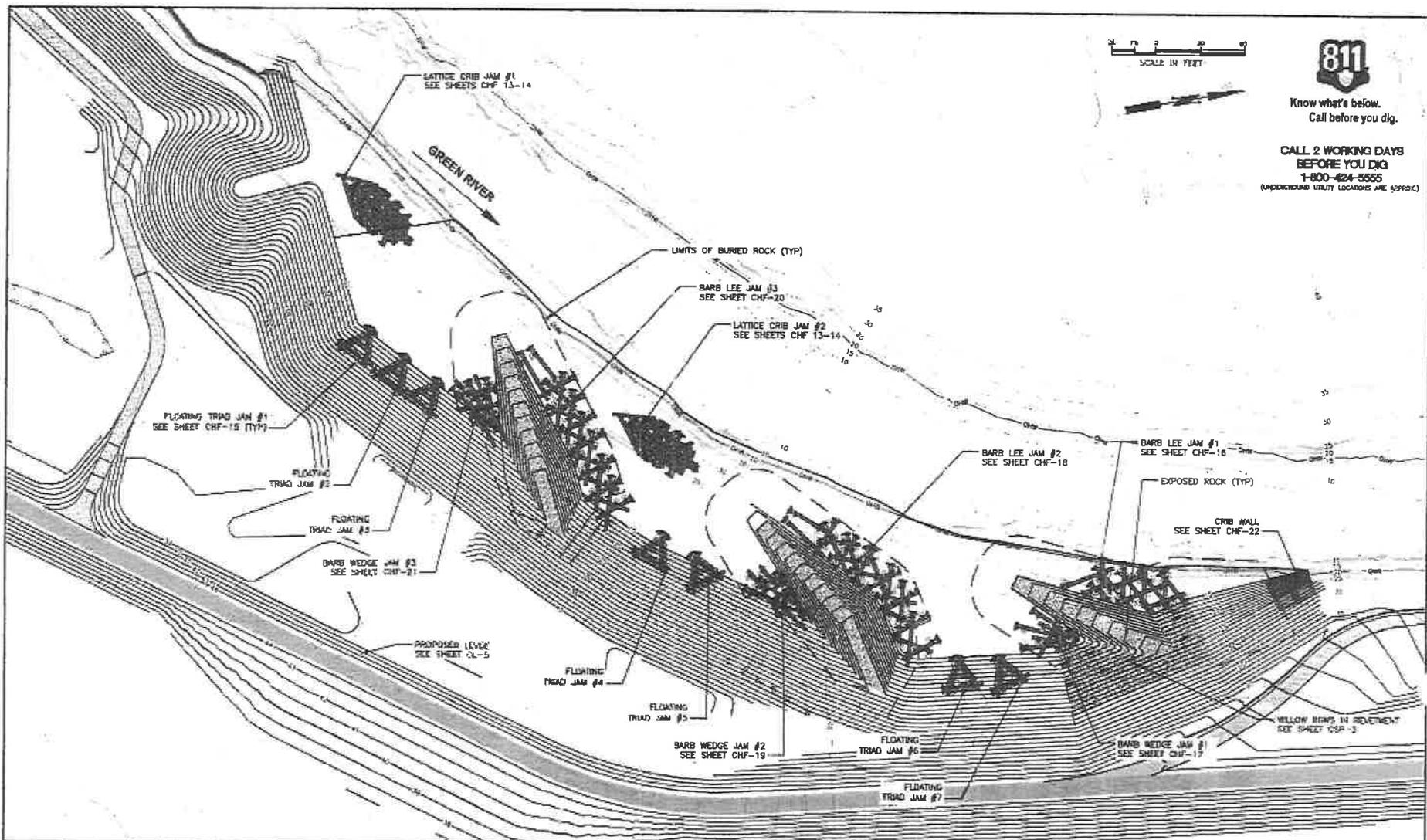


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 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Trice, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 HABITAT WOOD AREA 3
 SMALL RAFT JAM

SHEET
CHF-11



SUNNY JOB NO./PROJECT:					
CHECKED:					
DESIGNED:	SDH	10/19			
DESIGNED:	MDL	10/19	SCALE	PERMANENT	BT DATE
CHECKED:	CTL	10/19			
SUPERVISOR:	WDC	10/18			
	M.M.		RECORD CHANGES APPROVED	BY	DATE

PROJECT No. 1112056
 CONTRACT No. C01415C20

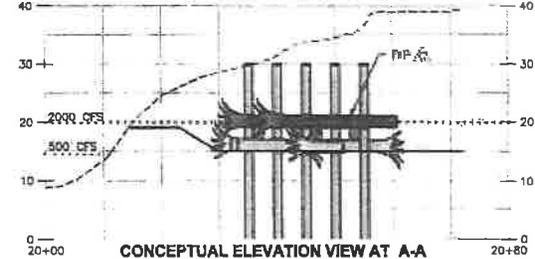
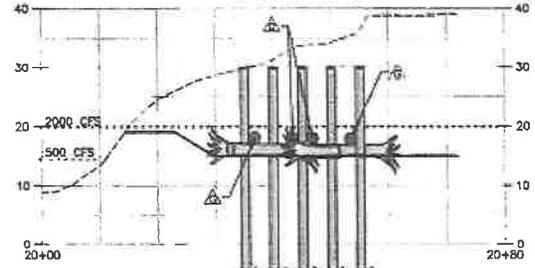
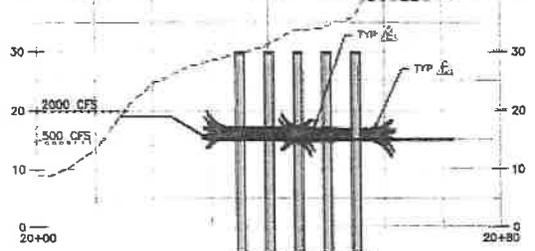
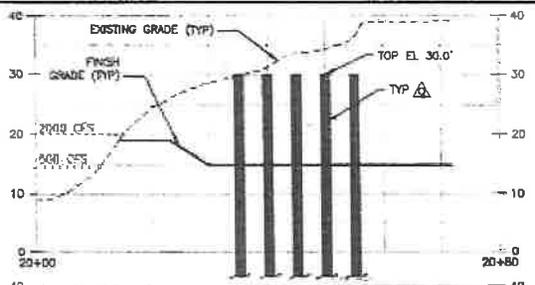
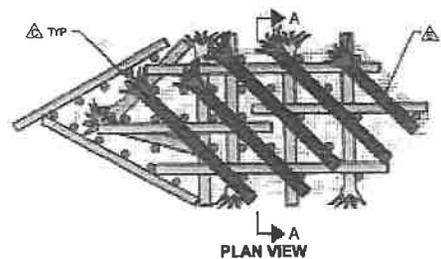
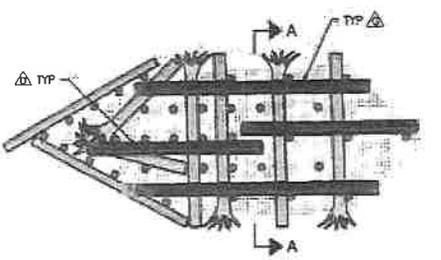
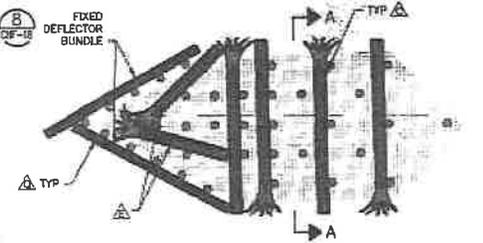
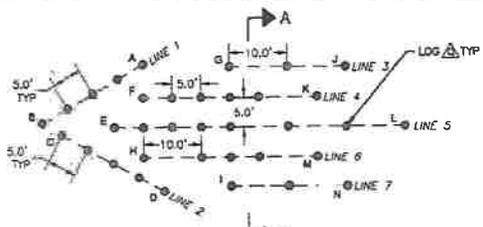


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 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Tisa, Director

LOWER R.JSELLE LEVEE SETBACK PROJECT
 PHASE 2
 HABITAT WOOD AREA 4
 PLAN

SHEET
 CHF-12



STEP 1

- NOTES:
 1. INSTALL 30 TYPE Q WOOD PILES -- 35.0' (MIN) DRIVE DEPTH.
 2. LINES 3 - 7 ARE 5' APART.
 3. PILES ON LINES 1-3 AND 7 ARE 5' APART.
 4. PILES ON LINES 4 - 6 ARE 5' AND 10' APART.

STEP 2

- NOTES:
 1. ADD 150 CY SLASH AS DIRECTED BY PROJECT REPRESENTATIVE (NOT SHOWN FOR CLARITY).
 2. PLACE 4 TYPE C LOGS AND 2 TYPE E LOGS.
 3. CONNECT LOGS TO ADJACENT WOOD PILES (15).
 4. INSTALL TWO FIXED DEFLECTOR BUNDLES.
 5. CUT OFF FIXED DEFLECTOR BUNDLE PILES 2.0' ABOVE TOP DEFLECTOR LOG.

STEP 3

- NOTES:
 1. ADD 150 CY SLASH AS DIRECTED BY PROJECT REPRESENTATIVE (NOT SHOWN FOR CLARITY).
 2. PLACE 2 TYPE D & 2 TYPE G LOGS.
 3. CONNECT LOGS TO ADJACENT WOOD PILES (13).

STEP 4

- NOTES:
 1. ADD 100 CY SLASH AS DIRECTED BY PROJECT REPRESENTATIVE (NOT SHOWN FOR CLARITY).
 2. PLACE 4 TYPE C LOGS AND 1 TYPE E LOG.
 3. CONNECT LOGS WITH CHAIN TO ADJACENT WOOD PILES (17).



NOTE:
 1. RIVER WSEL AT 500 CFS (TYPICAL SUMMER FLOW) SHOWN FOR REFERENCE. GROUNDWATER LEVELS WITHIN EXCAVATION LIMITS MAY VARY SIGNIFICANTLY FROM RIVER WSEL, WHICH MAY ALSO VARY.

LATTICE CRIB JAMS 1 & 2 WOOD SCHEDULE						
LOG TYPE	ITEM	QUANTITY	UNIT	DIAMETER (IN)	LENGTH (FT)	DESCRIPTION
△	TYPE C LOG	26	EA	24	30	ROOTWAD ATTACHED
△	TYPE D LOG	4	EA	24	30	NO ROOTWAD
△	TYPE E LOG	8	EA	24	20	ROOTWAD ATTACHED
△	TYPE F LOG	12	EA	24	20	NO ROOTWAD
△	TYPE G LOG	10	EA	24	40	NO ROOTWAD
	SLASH	1500	CY			REFER TO SPECIFICATIONS
△	TYPE Q (PILE)	70	EA	18	50	35' MIN. DRIVE DEPTH
△	TYPE Q (LOG)	16	EA	18	30	FIXED DEFLECTOR BUNDLE

PLACE LOGS AS DIRECTED BY PROJECT REPRESENTATIVE. LAYOUT MAY VARY FROM THAT SHOWN IN DRAWINGS.

LATTICE CRIB JAM 1 CONTROL POINT TABLE

CP	ITEM	NORTHING	EASTING
A	CP90	152940.2	1285633.4
B	CP91	152922.0	1285625.1
C	CP92	152922.4	1285628.9
D	CP93	152925.1	1285648.7
E	CP94	152928.7	1285635.5
F	CP95	152935.7	1285636.6
G	CP96	152948.6	1285645.7
H	CP97	152927.7	1285642.5
I	CP98	152932.5	1285657.5
J	CP99	152950.4	1285661.8
K	CP100	152953.5	1285660.7
L	CP101	152958.3	1285675.8
M	CP102	152945.5	1285666.7
N	CP103	152944.3	1285673.7

LATTICE CRIB JAM 2 CONTROL POINT TABLE

CP	ITEM	NORTHING	EASTING
A	CP104	153087.2	1285822.6
B	CP105	153105.6	1285827.6
C	CP106	153088.3	1285826.3
D	CP107	153094.4	1285845.4
E	CP108	153095.7	1285831.7
F	CP109	153102.7	1285831.6
G	CP110	153095.8	1285838.8
H	CP111	153117.0	1285838.3
I	CP112	153103.2	1285852.8
J	CP113	153131.8	1285856.3
K	CP114	153124.4	1285852.3
L	CP115	153117.5	1285859.5
M	CP116	153131.4	1285852.2
N	CP117	153117.6	1285856.6



Know what's below.
 Call before you dig.

CALL 2 WORKING DAYS
 BEFORE YOU DIG
 1-800-424-2525
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

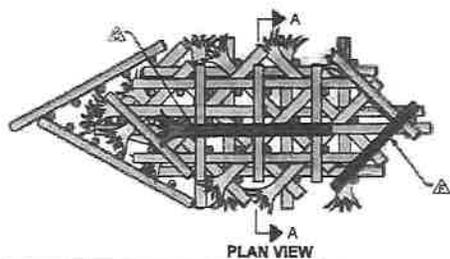
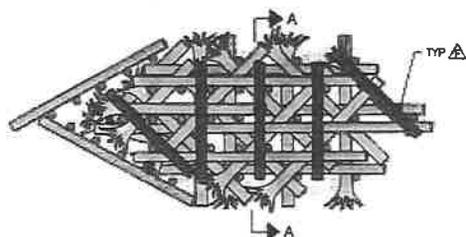
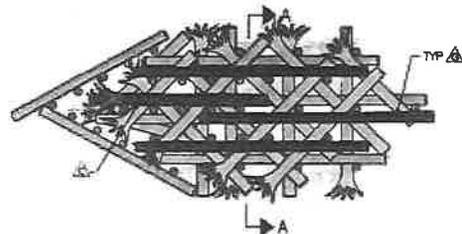
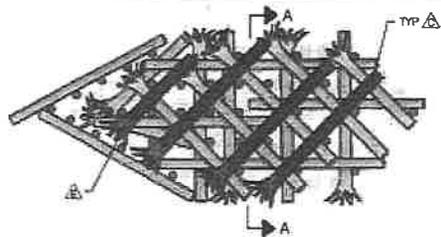
SUPPLY JOB NO./SUBJECT:					
CHECKED:	DDH	10/19			
CAD ENTERED:	VDC	10/19			
DESIGNED:	CTL	10/19			
CHECKED:	VDC	10/19			
SUPERVISOR:					
	RECORD CHANGES APPROVED	BY	DATE		

PLANS:	
PROJECT No.	1112056
CONTRACT No.	C01415C20

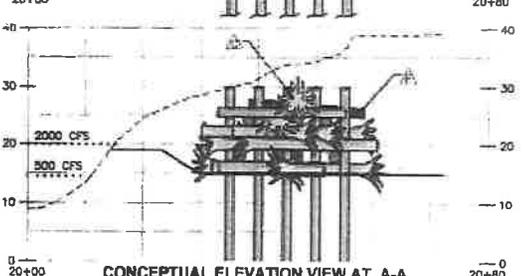
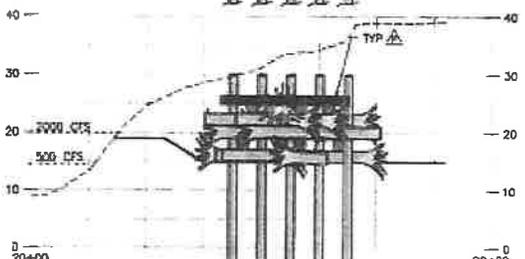
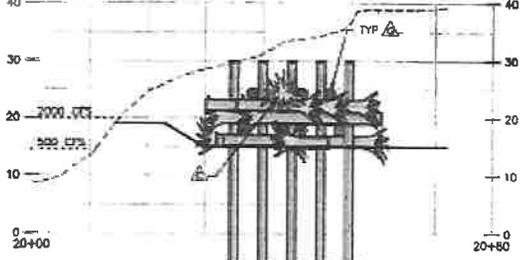
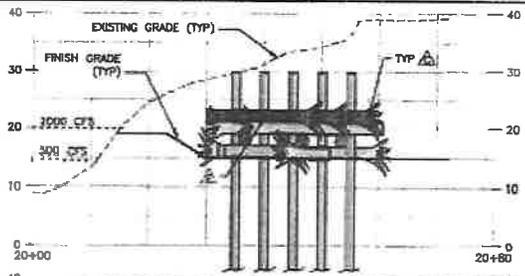


LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 HABITAT WOOD AREA 4
 LATTICE CRIB JAM LAYERING PLAN A

SHEET
 CHF-13



PLAN VIEW



CONCEPTUAL ELEVATION VIEW AT A-A

STEP 5
 NOTES:
 1. ADD 100 CY OF SLASH AS DIRECTED BY PROJECT REPRESENTATIVE (NOT SHOWN FOR CLARITY).
 2. PLACE 1 TYPE E & 3 TYPE C LOGS.
 3. SECURE LOGS WITH CHAIN TO ADJACENT WOOD PILES (13). 7 DF-18

STEP 6
 NOTES:
 1. ADD 100 CY OF SLASH AS DIRECTED BY PROJECT REPRESENTATIVE (NOT SHOWN FOR CLARITY).
 2. PLACE 1 TYPE C & 3 TYPE G LOGS.
 3. SECURE LOGS WITH CHAIN TO ADJACENT WOOD PILES (14). 7 DF-18

STEP 7
 NOTES:
 1. ADD 100 CY OF SLASH AS DIRECTED BY PROJECT REPRESENTATIVE (NOT SHOWN FOR CLARITY).
 2. PLACE 5 TYPE F LOGS.
 3. SECURE LOGS WITH CHAIN TO ADJACENT WOOD PILES (10). 7 DF-18

STEP 8
 NOTES:
 1. ADD 50 CY OF SLASH AS DIRECTED BY PROJECT REPRESENTATIVE (NOT SHOWN FOR CLARITY).
 2. PLACE 1 TYPE F LOG & TOP WITH 1 TYPE C LOG.
 3. SECURE LOGS WITH CHAIN TO ADJACENT WOOD PILES (5). 7 DF-18



NOTE:
 1. RIVER WSEL AT 500 CFS (TYPICAL SUMMER FLOW) SHOWN FOR REFERENCE. GROUNDWATER LEVELS WITHIN EXCAVATION LIMITS MAY VARY SIGNIF. CAL-TLY FROM RIVER WSEL, WHICH MAY ALSO VARY.



Know what's below.
 Call before you dig.

CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-6555
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

DESIGNED BY	DDM	10/18					
CHECKED BY	VOC	10/19	W.S.	REVISION	BY	DATE	
DESIGNED BY	CTL	10/19					
CHECKED BY	VOC	10/19					
H.M.			RECORD CHANGES APPROVED BY	DATE			

PLANNING
 PROJECT No. 1112058
 CONTRACT No. C01415C20

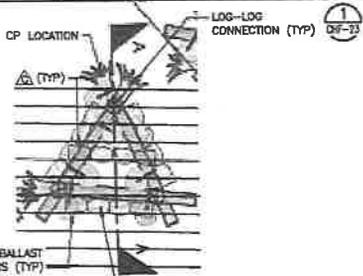


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 northwest hydraulic consultants

King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chrissie Tive, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 HABITAT WOOD AREA 4
 LATTICE CRIB JAM LAYERING PLAN B

SHEET
 CHF-14

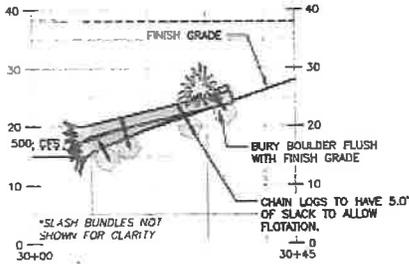


LOG TYPE	ITEM	QUANTITY	UNIT	DIAMETER (IN)	LENGTH (FT)	DESCRIPTION
△	TYPE C LOG	21	EA	24	30	ROOTWAD ATTACHED
	SLASH BUNDLES	28	EA	30	10 - 15	
	3.5 TON BOULDER	42	EA	N/A	N/A	

PLACE LOGS AS DIRECTED BY PROJECT REPRESENTATIVE. LAYOUT MAY VARY FROM THAT SHOWN IN DRAWINGS.

3 4 SLASH BUNDLES TIED TO EACH JAM

TRIAD JAM PLAN



CONCEPTUAL ELEVATION VIEW AT A-A

TRIAD JAM CONTROL POINT TABLE

CP	ITEM	NORTHING	EASTING
CP118	TRIAD JAM 1	152920.0	1285730.6
CP119	TRIAD JAM 2	152940.6	1285753.9
CP120	TRIAD JAM 3	152861.0	1285774.5
CP121	TRIAD JAM 4	153100.4	1285908.6
CP122	TRIAD JAM 5	153118.6	1285928.6
CP123	TRIAD JAM 6	153291.8	1286030.7
CP124	TRIAD JAM 7	153320.5	1286035.7



Know what's below.
Call before you dig.



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-6655
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

NOTE:
1. RIVER WSEL AT 500 CFS (TYPICAL SUMMER FLOW) SHOWN FOR REFERENCE. GROUNDWATER LEVELS WITHIN EXCAVATION LIMITS MAY VARY SIGNIFICANTLY FROM RIVER WSEL, WHICH MAY ALSO VARY.

SURVEY JOB NO./SOURCE:		FLUSHING:	
CHECKED:	10/18	PROJECT No.	1112056
DATE EXTENDED:	VOC 10/19	CONTRACT No.	CO1415C20
DESIGNED:	CTL 10/18		
CHECKED:	VOC 10/19		
SUPERVISOR:			
	REVISIONS APPROVED BY DATE		

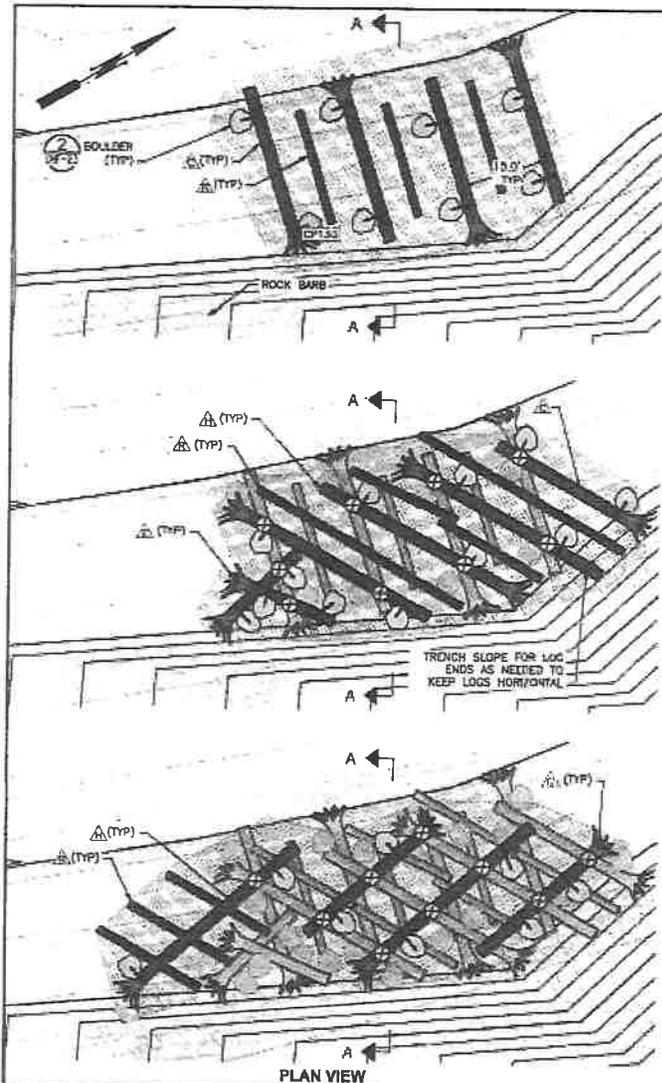


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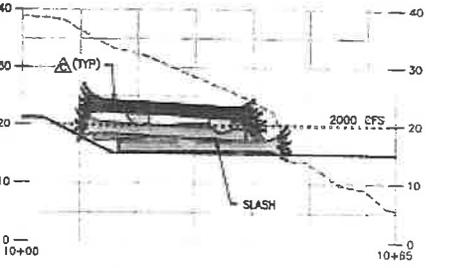
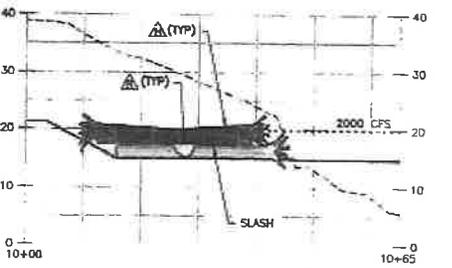
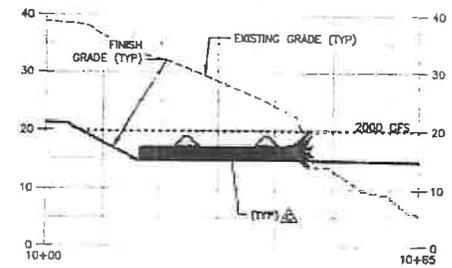
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Trus, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
HABITAT WOOD AREA 4
TRIAD JAM

SHEET
CHF-15



PLAN VIEW



CONCEPTUAL ELEVATION VIEW AT A-A

STEP 1

- NOTES:
1. PLACE 150 CY SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
 2. INSTALL 4 TYPE C LOGS AT 15.0' SPACING.
 3. CONNECT BALLAST BOULDERS TO KEY LOGS.
 4. PLACE 3 RACKING LOGS BETWEEN KEY LOGS AND ON SLASH.

STEP 2

- NOTES:
1. PLACE 150 CY SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
 2. PLACE 1 TYPE C, 2 TYPE E, AND 3 TYPE H LOGS OVER STEP 1 KEY LOGS AS SHOWN.
 3. ENSURE OVERLAPPING LOGS ARE TOUCHING AND CHAIN UPPER KEY LOGS TO UNDERLYING KEY LOGS.
 4. CONNECT BALLAST BOULDERS TO KEY LOGS.
 5. PLACE 5 RACKING LOGS BETWEEN KEY LOGS AND ON SLASH.

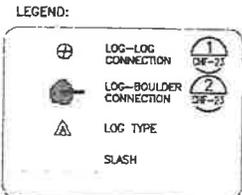
STEP 3

- NOTES:
1. PLACE 150 CY SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
 2. PLACE 3 RACKING LOGS ON SLASH AS SHOWN.
 3. PLACE 2 TYPE C LOGS & 2 TYPE H LOGS.
 4. ENSURE OVERLAPPING KEY LOGS ARE TOUCHING AND CHAIN TO UNDERLYING KEY LOGS.
 5. CONNECT BALLAST BOULDERS TO KEY LOGS.

NOTE:
1. RIVER WSEL AT 2000 CFS SHOWN FOR REFERENCE. GROUNDWATER LEVELS WITHIN EXCAVATION LIMITS MAY VARY SIGNIFICANTLY FROM RIVER WSEL, WHICH MAY ALSO VARY.

BARB LEE JAM #1 WOOD SCHEDULE						
LOG TYPE	ITEM	QUANTITY	UNIT	DIAMETER (IN)	LENGTH (FT)	DESCRIPTION
⊕	TYPE C LOG	7	EA	24	30	ROOTWAD ATTACHED
⊕	TYPE E LOG	2	EA	24	20	ROOTWAD ATTACHED
⊕	TYPE H LOG	5	EA	24	40	ROOTWAD ATTACHED
⊕	RACKING LOG	12	EA	12	12-20	
	SLASH	450	CY			REFER TO SPECIFICATIONS
	BOULDER	28	EA	N/A	N/A	3.5-TON BOULDERS

PLACE LOGS AS DIRECTED BY PROJECT REPRESENTATIVE. LAYOUT MAY VARY FROM THAT SHOWN IN DRAWINGS.



BARB LEE & WEDGE JAM CONTROL POINT TABLE

CP	ITEM	NORTHING	EASTING
CP130	BARB LEE JAM #1	154328.1	1294141.3
CP131	BARB WEDGE JAM #1	154304.9	1294169.6
CP132	BARB LEE JAM #2	155327.0	1294279.4
CP133	BARB WEDGE JAM #2	155307.5	1294312.5
CP134	BARB LEE JAM #3	155151.6	1294137.0
CP135	BARB WEDGE JAM #3	155118.1	1294148.5



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE)



DESIGNED BY	DATE	CHECKED BY	DATE
DW	10/11	WJC	10/11
DRAWN BY	DATE	SCALE	REVISION
DL	10/11		
DATE	BY	DATE	BY
10/12			

PROJECT NO.	1112024
CONTRACT NO.	03414032



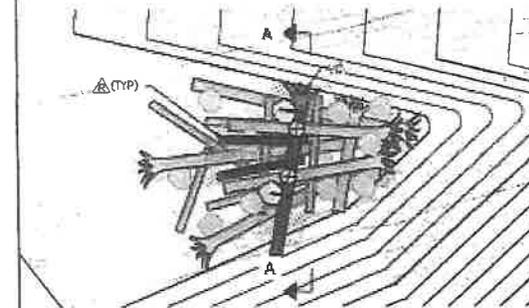
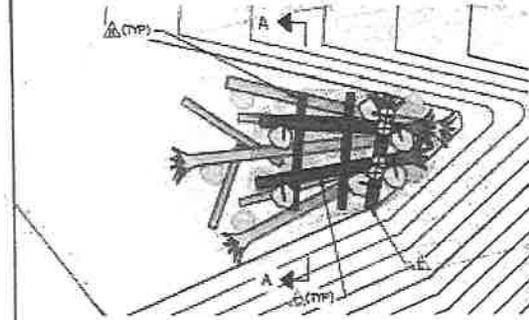
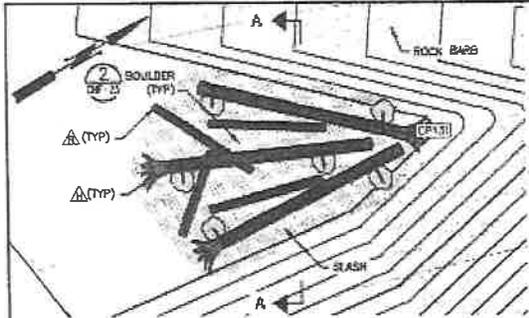
nhc
northwest hydraulic consultants

King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Triss, Director

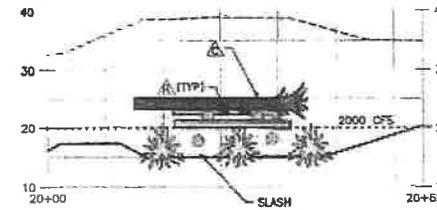
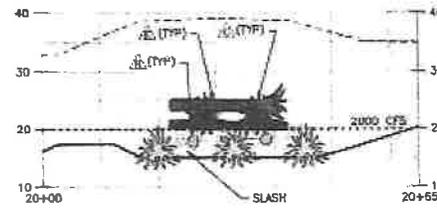
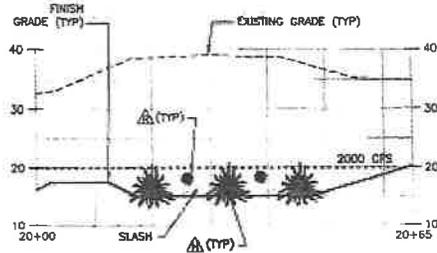
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2

HABITAT WOOD AREA 4
BARB LEE JAM #1

SHEET
CHF-16



PLAN VIEW



CONCEPTUAL ELEVATION VIEW AT A-A

STEP 1

- NOTE:
 1. PLACE 50 CY SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
 2. PLACE 4 RACKING LOGS ON SLASH.
 3. INSTALL 3 TYPE H LOGS AS SHOWN.
 4. CONNECT BALLAST BOULDERS TO KEY LOGS.



STEP 2

- NOTES:
 1. PLACE 50 CY ADDITIONAL SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
 2. PLACE 2 RACKING LOGS ON SLASH AS SHOWN.
 3. PLACE 1 TYPE E LOG AND 2 TYPE C LOGS OVER STEP 1 LOGS AS SHOWN.
 4. ENSURE OVERLAPPING KEY LOGS ARE TOUCHING AND CHAIN UPPER KEY LOGS TO STEP 1 KEY LOGS.
 5. CONNECT BALLAST BOULDERS TO KEY LOGS.



STEP 3

- NOTES:
 1. PLACE 50 CY ADDITIONAL SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
 2. PLACE 2 RACKING LOGS ON SLASH AS SHOWN.
 3. PLACE 1 TYPE C LOG.
 4. ENSURE OVERLAPPING LOG IS TOUCHING AND CHAIN TO UNDERLYING KEY LOGS.
 5. CONNECT BALLAST BOULDERS TO KEY LOGS.



NOTE:

1. RIVER WSEL AT 2000 CFS SHOWN FOR REFERENCE. GROUNDWATER LEVELS WITHIN EXCAVATION LIMITS MAY VARY SIGNIFICANTLY FROM RIVER WSEL, WHICH MAY ALSO VARY.

BARB WEDGE JAM #1 WOOD SCHEDULE						
LOG TYPE	ITEM	QUANTITY	UNIT	DIAMETER (IN)	LENGTH (FT)	DESCRIPTION
△	TYPE C LOG	3	EA	24	30	ROOTWAD ATTACHED
△	TYPE E LOG	2	EA	24	20	ROOTWAD ATTACHED
△	TYPE H LOG	3	EA	24	40	ROOTWAD ATTACHED
△	RACKING LOG	8	EA	12	12-20	
	SLASH	150	CY			REFER TO SPECIFICATIONS
	BOULDERS	14	EA	N/A	N/A	3.5-TON BOULDERS

PLACE LOGS AS DIRECTED BY PROJECT REPRESENTATIVE. LAYOUT MAY VARY FROM THAT SHOWN IN DRAWINGS.

LEGEND:

LOG-LOG CONNECTION
 LOG-BOULDER CONNECTION
 LOG TYPE
 SLASH

BARB LEE & WEDGE JAM CONTROL POINT TABLE

CP	ITEM	NORTHING	EASTING
CP130	BARB LEE JAM #1	154326.1	1294141.3
CP131	BARB WEDGE JAM #1	154304.9	1294169.6
CP132	BARB LEE JAM #2	155327.0	1294279.4
CP133	BARB WEDGE JAM #2	155307.5	1294312.5
CP134	BARB LEE JAM #3	155151.6	1294137.0
CP135	BARB WEDGE JAM #3	155118.1	1294148.5



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



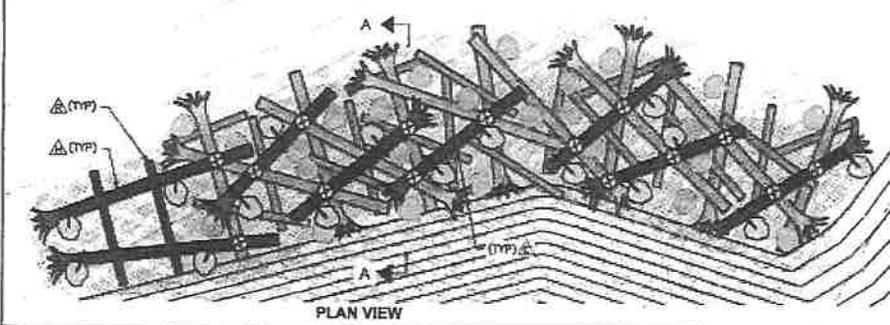
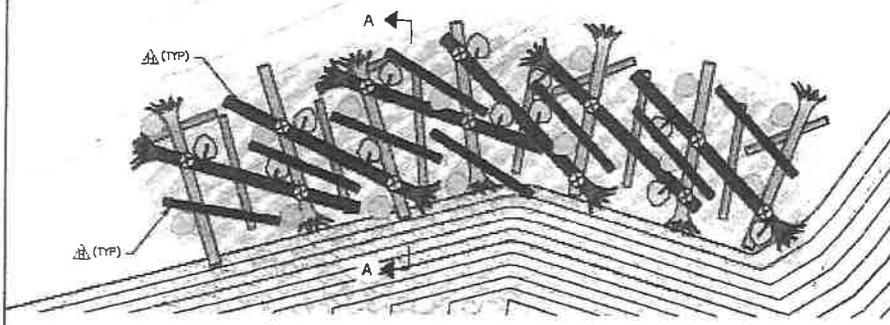
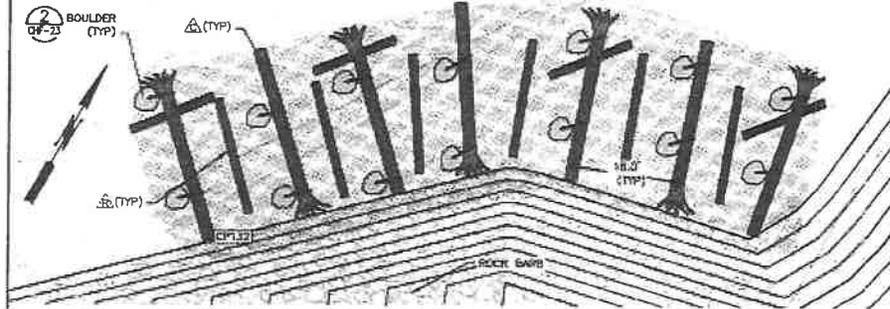
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RECORD CHANGES APPROVED BY: _____ DATE: _____		

PROJECT No. 1112056 CONTRACT No. C01415C20

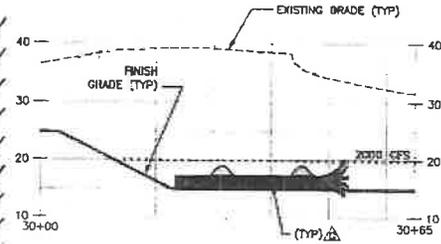


LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 HABITAT WOOD AREA 4
 BARB WEDGE JAM #1

SHEET
CHF-17

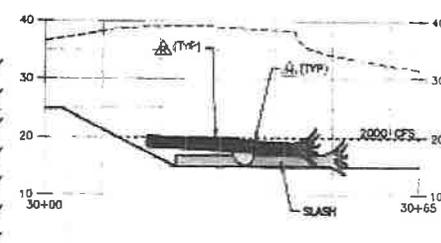


PLAN VIEW



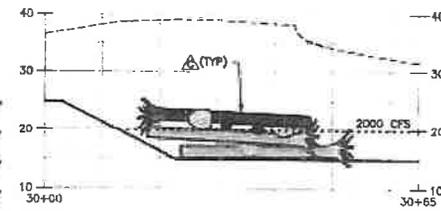
STEP 1

- NOTES:
1. PLACE 150 CY SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
 2. PLACE 10 RACKING LOGS AS SHOWN ON SLASH.
 3. INSTALL 7 TYPE C LOGS LOGS LOGS AT 18.0' SPACING.
 4. CONNECT BALLAST BOULDERS TO KEY LOGS.



STEP 2

- NOTES:
1. PLACE 150 CY ADDITIONAL SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
 2. PLACE 6 TYPE H LOGS OVER PREVIOUS LAYER OF LOGS AS SHOWN.
 3. ENSURE OVERLAPPING KEY LOGS ARE TOUCHING AND CHAIN TO UNDERLYING KEY LOGS.
 4. CONNECT BALLAST BOULDERS TO KEY LOGS.
 5. PLACE 8 RACKING LOGS BETWEEN KEY LOGS AND ON SLASH.



STEP 3

- NOTES:
1. PLACE 150 CY ADDITIONAL SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
 2. PLACE 2 RACKING LOGS ON SLASH AS SHOWN.
 3. PLACE 2 TYPE H LOGS & 6 TYPE C LOGS.
 4. ENSURE OVERLAPPING KEY LOGS ARE TOUCHING AND CHAIN TO UNDERLYING KEY LOGS.
 5. CONNECT BALLAST BOULDERS TO KEY LOGS.

CONCEPTUAL ELEVATION VIEW AT A-A

NOTE:
1. RIVER WEEL AT 2000 CFS SHOWN FOR REFERENCE. GROUNDWATER LEVELS WITHIN EXCAVATION LIMITS MAY VARY SIGNIFICANTLY FROM RIVER WEEL, WHICH MAY ALSO VARY.

BARB LEE JAM #2 WOOD SCHEDULE						
LOG TYPE	ITEM	QUANTITY	UNIT	DIAMETER (IN)	LENGTH (FT)	DESCRIPTION
△	TYPE C LOG	13	EA	24	50	ROOTWAD ATTACHED
△	TYPE H LOG	8	EA	24	40	ROOTWAD ATTACHED
△	RACKING LOG	20	EA	12	12-20	
	SLASH	450	CY			REFER TO SPECIFICATIONS
	BOULDERS	42	EA	N/A	N/A	3.5-TON BOULDERS

PLACE LOGS AS DIRECTED BY PROJECT REPRESENTATIVE. LAYOUT MAY VARY FROM THAT SHOWN IN DRAWINGS.

BARB LEE & WEDGE JAM CONTROL POINT TABLE				
CP	ITEM	NORTHING	EASTING	
CP130	BARB LEE JAM #1	154326.1	1294141.3	
CP131	BARB WEDGE JAM #1	154304.8	1294168.6	
CP132	BARB LEE JAM #2	155327.0	1294279.4	
CP133	BARB WEDGE JAM #2	155307.5	1294312.5	
CP134	BARB LEE JAM #3	155151.6	1294137.0	
CP135	BARB WEDGE JAM #3	155118.1	1294148.5	

LEGEND:

- ⊕ LOG-LOG CONNECTION
- LOG-BOULDER CONNECTION
- △ LOG TYPE
- SLASH



Know what's below.
Call before you dig.

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1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



DATE	BY	REVISION
10/19	DCH	CHECKED
10/19	VOC	DRAWN
10/19	CIL	CHECKED
10/19	VOC	SUPERVISED

PROJECT No.	1112056
CONTRACT No.	C01415C20

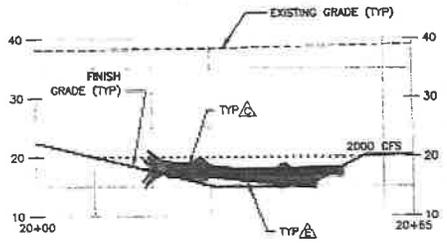
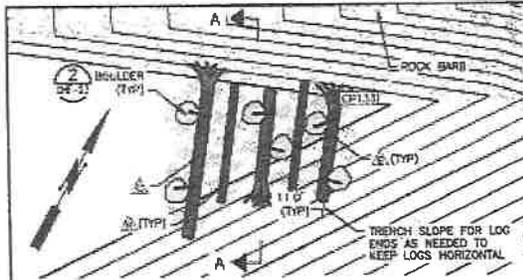


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King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christa Tru, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
HABITAT WOOD AREA 4
BARB LEE JAM #2

SHEET
CHF-18



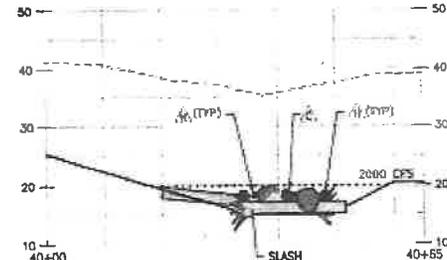
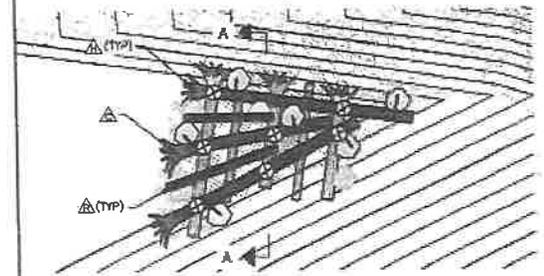
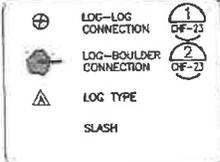
STEP 1

- NOTES:
1. PLACE 50 CY SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
 2. INSTALL 1 TYPE C LOG AND 2 TYPE E LOGS AT 11.0' SPACING.
 3. CONNECT BALLAST BOULDERS TO KEY LOGS.
 4. PLACE 2 RACKING LOGS BETWEEN KEY LOGS AND ON SLASH.

BARB WEDGE JAM #2 WOOD SCHEDULE						
LOG TYPE	ITEM	QUANTITY	UNIT	DIAMETER (IN)	LENGTH (FT)	DESCRIPTION
△	TYPE C LOG	4	EA	24	30	ROOTWAD ATTACHED
△	TYPE E LOG	5	EA	24	20	ROOTWAD ATTACHED
△	TYPE H LOG	2	EA	24	40	ROOTWAD ATTACHED
△	RACKING LOG	5	EA	12	12-20	
	SLASH	150	CY			REFER TO SPECIFICATIONS
	BOULDERS	22	EA	N/A	N/A	3.5-TON BOULDERS

PLACE LOGS AS DIRECTED BY PROJECT REPRESENTATIVE. LAYOUT MAY VARY FROM THAT SHOWN IN DRAWINGS.

LEGEND:



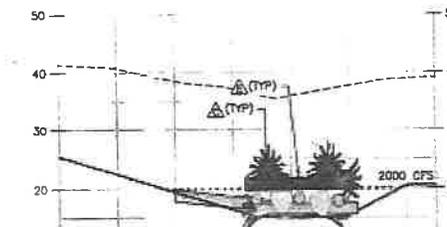
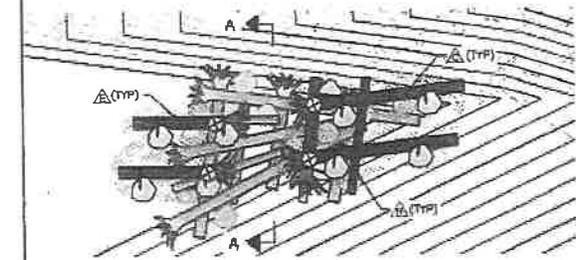
STEP 2

- NOTES:
1. PLACE 50 CY ADDITIONAL SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
 2. PLACE 1 TYPE C LOG AND 2 TYPE H LOGS OVER PREVIOUS LAYER OF LOGS AS SHOWN.
 3. ENSURE OVERLAPPING KEY LOGS ARE TOUCHING AND CHAIN TO UNDERLYING KEY LOGS.
 4. CONNECT BALLAST BOULDERS TO KEY LOGS.
 5. PLACE 2 RACKING LOGS BETWEEN KEY LOGS AND ON SLASH.



BARB LEE & WEDGE JAM CONTROL POINT TABLE

CP	ITEM	NORTHING	EASTING
CP130	BARB LEE JAM #1	154326.1	1294141.3
CP131	BARB WEDGE JAM #1	154304.9	1294169.6
CP132	BARB LEE JAM #2	155327.0	1294279.4
CP133	BARB WEDGE JAM #2	155307.5	1294312.5
CP134	BARB LEE JAM #3	155151.5	1294137.0
CP135	BARB WEDGE JAM #3	155118.1	1294148.5



STEP 3

- NOTES:
1. PLACE 50 CY ADDITIONAL SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
 2. PLACE 1 RACKING LOG ON SLASH.
 3. PLACE 3 TYPE E LOGS & 2 TYPE C LOGS.
 4. ENSURE OVERLAPPING KEY LOGS ARE TOUCHING AND CHAIN TO UNDERLYING KEY LOGS.
 5. CONNECT BALLAST BOULDERS TO KEY LOGS.



NOTE:
1. RIVER WSEL AT 2000 CFS SHOWN FOR REFERENCE. GROUNDWATER LEVELS WITHIN EXCAVATION LIMITS MAY VARY SIGNIFICANTLY FROM RIVER WSEL, WHICH MAY ALSO VARY.



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



SURVEY JOB NO./SCALE:		REVISIONS:	
CHECKED:		PROJECT No.	1112056
DWG. DATE:	DDH 10/18	CONTRACT No.	001415C20
DESIGNED:	VDC 10/18		
CHECKED:	CTL 10/18		
SUPERVISOR:	VDC 10/18		
	RECORD CHANGES APPROVED BY DATE		



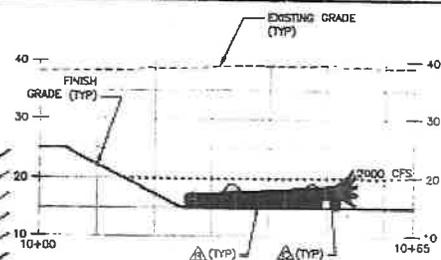
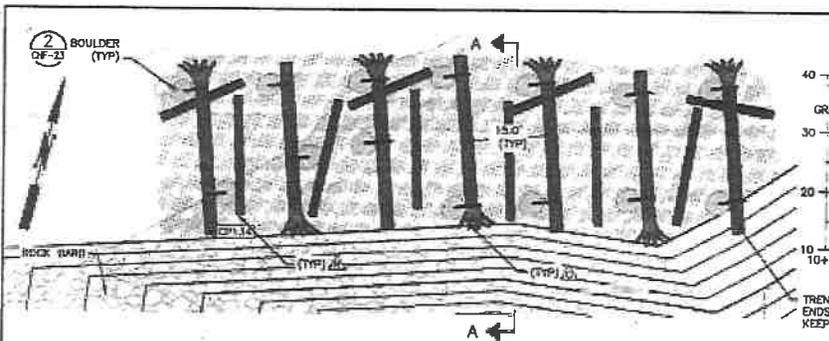
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northwest hydraulic consultants

King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Triss, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2

HABITAT WOOD AREA 4
BARB WEDGE JAM #2

SHEET
CHF-19

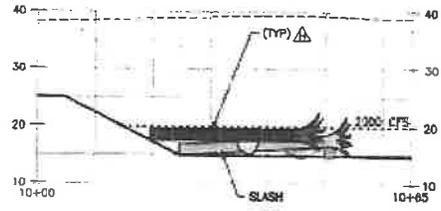
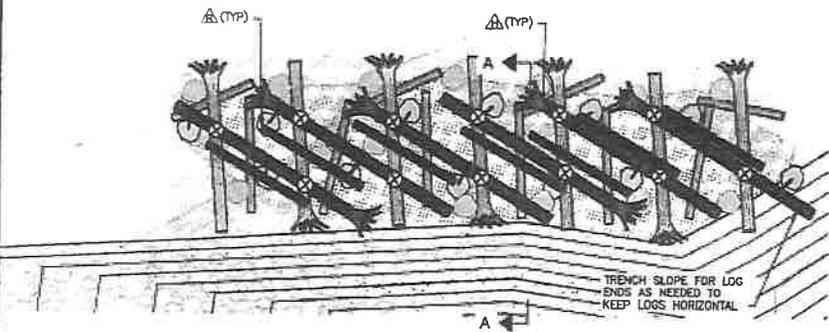


STEP 1

- NOTES:
1. PLACE 150 CY SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
 2. PLACE 10 RACKING LOGS AS SHOWN ON SLASH.
 3. INSTALL 7 TYPE C LOGS AT 15.0' SPACING WITH END BUTTED AGAINST TOE OF ROCK BARB ON SLOPE.
 4. CONNECT BALLAST BOULDERS TO KEY LOGS.

BARB LEE JAM #3 WOOD SCHEDULE						
LOG TYPE	ITEM	QUANTITY	UNIT	DIAMETER (IN)	LENGTH (FT)	DESCRIPTION
△	TYPE C LOG	13	EA	24	30	ROOTWAD ATTACHED
△	TYPE H LOG	8	EA	24	40	ROOTWAD ATTACHED
△	RACKING LOG	20	EA	12	12-20	
	SLASH	450	CY			REFER TO SPECIFICATIONS
	BOULDERS	42	EA	N/A	N/A	3.5-TON BOULDERS

PLACE LOGS AS DIRECTED BY PROJECT REPRESENTATIVE. LAYOUT MAY VARY FROM THAT SHOWN IN DRAWINGS.



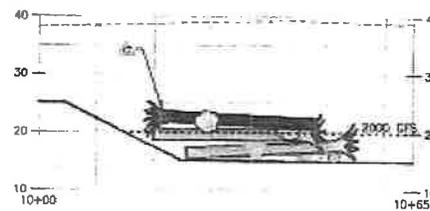
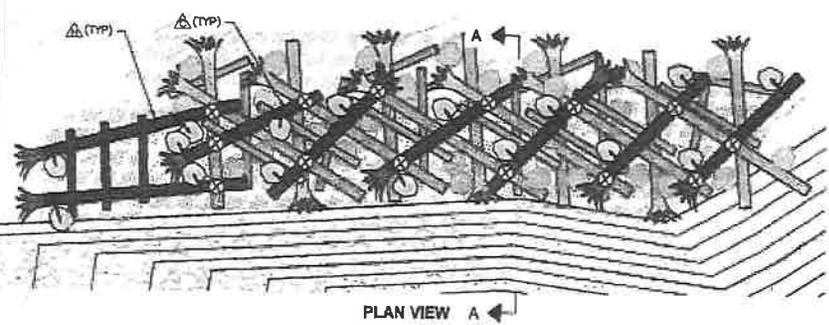
STEP 2

- NOTES:
1. PLACE 150 CY ADDITIONAL SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
 2. PLACE 6 TYPE H LOGS OVER PREVIOUS LAYER OF LOGS AS SHOWN.
 3. ENSURE OVERLAPPING KEY LOGS ARE TOUCHING AND CHAIN TO UNDERLYING KEY LOGS.
 4. CONNECT BALLAST BOULDERS TO KEY LOGS.
 5. PLACE 7 RACKING LOGS BETWEEN KEY LOGS AND OVER SLASH.

BARB LEE & WEDGE JAM CONTROL POINT TABLE				
CP	ITEM	NORTHING	EASTING	
CP130	BARB LEE JAM #1	154326.1	1294141.3	
CP131	BARB WEDGE JAM #1	154304.9	1294169.6	
CP132	BARB LEE JAM #2	155327.0	1294279.4	
CP133	BARB WEDGE JAM #2	155307.5	1294312.5	
CP134	BARB LEE JAM #3	155151.6	1294137.0	
CP135	BARB WEDGE JAM #3	155118.1	1294148.5	

LEGEND:

- LOG-LOG CONNECTION (1 QF-23)
- LOG-BOULDER CONNECTION (2 QF-23)
- LOG TYPE
- SLASH



STEP 3

- NOTES:
1. PLACE 150 CY ADDITIONAL SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
 2. PLACE 3 RACKING LOGS.
 3. PLACE 6 TYPE C LOGS & 2 TYPE H LOGS.
 4. ENSURE OVERLAPPING KEY LOGS ARE TOUCHING AND CHAIN TO UNDERLYING KEY LOGS.
 5. CONNECT BALLAST BOULDERS TO KEY LOGS.



Know what's below.
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1-800-424-5355
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



CONCEPTUAL ELEVATION VIEW AT A-A

- NOTE:
1. RIVER WSEL AT 2000 CFS (TYPICAL SUMMER FLOW) SHOWN FOR REFERENCE. GROUNDWATER LEVELS WITHIN EXCAVATION LIMITS MAY VARY SIGNIFICANTLY FROM RIVER WSEL, WHICH MAY ALSO VARY.

SURVEY JOB NO./REVISION:		DATE:	
CAD ENTERED:	DDM 10/18	BY:	
DESIGNED:	VDC 10/19	BY:	
CHECKED:	CTL 10/19	BY:	
SUPERVISOR:	VDC 10/18	BY:	
RECORD CHANGES APPROVED BY:		DATE:	

PROJECT No.	1112056
CONTRACT No.	C01415C20

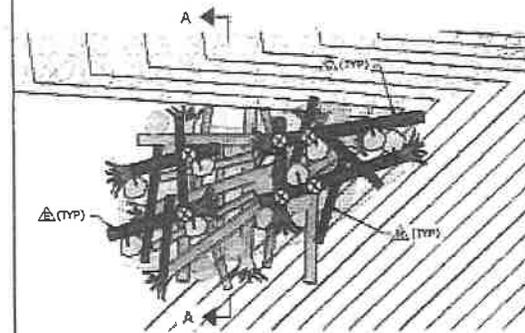
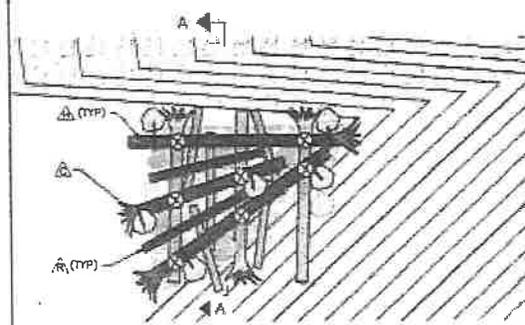
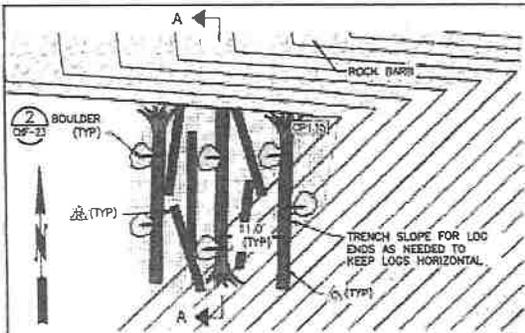


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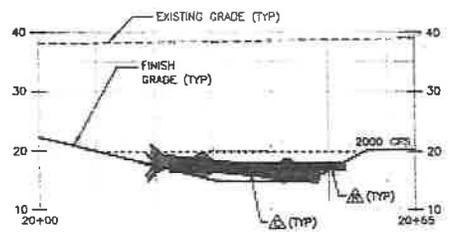
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Tius, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
HABITAT WOOD AREA 4
BARB LEE JAM #3

SHEET
CHF-20

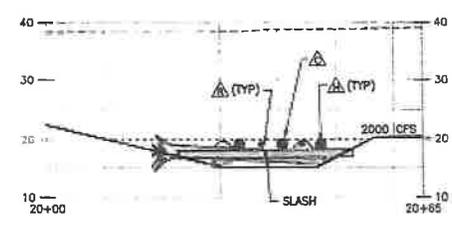


PLAN VIEW



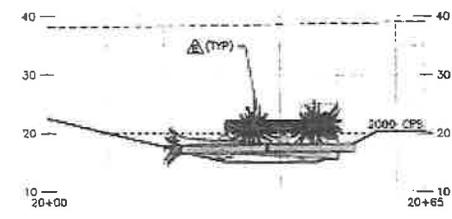
STEP 1

- NOTE:
1. PLACE 50 CY SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
 2. INSTALL 3 TYPE C LOGS AT 11.0' SPACING WITH TRUNK END BUTTED AGAINST TOE OF ROCK BARR.
 3. CONNECT BALLAST BOULDERS TO KEY LOGS.
 4. PLACE 5 RACKING LOGS BETWEEN KEY LOGS AND ON SLASH.



STEP 2

- NOTE:
1. PLACE 50 CY ADDITIONAL SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
 2. PLACE 1 TYPE C LOG AND 2 TYPE H LOGS OVER PREVIOUS LAYER OF KEY LOGS AS SHOWN.
 3. ENSURE OVERLAPPING KEY LOGS ARE TOUCHING AND CHAIN UPPER LOGS TO UNDERLYING KEY LOGS AT LOG-LOG CONNECTION POINTS.
 4. CONNECT BALLAST BOULDERS TO KEY LOGS.
 5. PLACE 2 RACKING LOGS BETWEEN KEY LOGS AND ON SLASH.



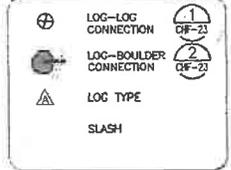
STEP 3

- NOTE:
1. PLACE 50 CY ADDITIONAL SLASH AS DIRECTED BY PROJECT REPRESENTATIVE.
 2. PLACE 6 RACKING LOGS ON SLASH.
 3. PLACE 3 TYPE E LOGS & 2 TYPE C LOGS.
 4. ENSURE OVERLAPPING KEY LOGS ARE TOUCHING AND CHAIN TO UNDERLYING KEY LOGS.
 5. CONNECT BALLAST BOULDERS TO KEY LOGS.

BARB WEDGE JAM #3 WOOD SCHEDULE						
LOG TYPE	ITEM	QUANTITY	UNIT	DIAMETER (IN)	LENGTH (FT)	DESCRIPTION
△	TYPE C LOG	6	EA	24	30	ROOTWAD ATTACHED
△	TYPE E LOG	3	EA	24	20	ROOTWAD ATTACHED
△	TYPE H LOG	2	EA	24	40	ROOTWAD ATTACHED
△	RACKING LOG	13	EA	12	12-20	
	SLASH	150	CY			REFER TO SPECIFICATIONS
	BOULDERS	22	EA	N/A	N/A	3.5-TON BOULDERS

PLACE LOGS AS DIRECTED BY PROJECT REPRESENTATIVE. LAYOUT MAY VARY FROM THAT SHOWN IN DRAWINGS.

LEGEND:



BARB LEE & WEDGE JAM CONTROL POINT TABLE

CP	ITEM	NORTHING	EASTING
CP130	BARB LEE JAM #1	154326.1	1294141.3
CP131	BARB WEDGE JAM #1	154304.9	1294169.8
CP132	BARB LEE JAM #2	155327.0	1294279.4
CP133	BARB WEDGE JAM #2	155307.5	1294312.5
CP134	BARB LEE JAM #3	155151.6	1294137.0
CP135	BARB WEDGE JAM #3	155118.1	1294148.5



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX)



NOTE:
1. RIVER WSEL AT 2000 CFS SHOWN FOR REFERENCE. GROUNDWATER LEVELS WITHIN EXCAVATION LIMITS MAY VARY SIGNIFICANTLY FROM RIVER WSEL, WHICH MAY ALSO VARY.

SURVEY JOB NO./DATE:			
CHECKED:	DDH	10/18	
DWG ENDED:	VDC	10/19	
REVISION:	CTL	10/18	
CHECKED:	VDC	10/18	
SUPERVISOR:			
REVISION	BY	DATE	
RECORD CHANGES APPROVED	BY	DATE	

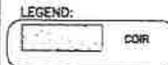
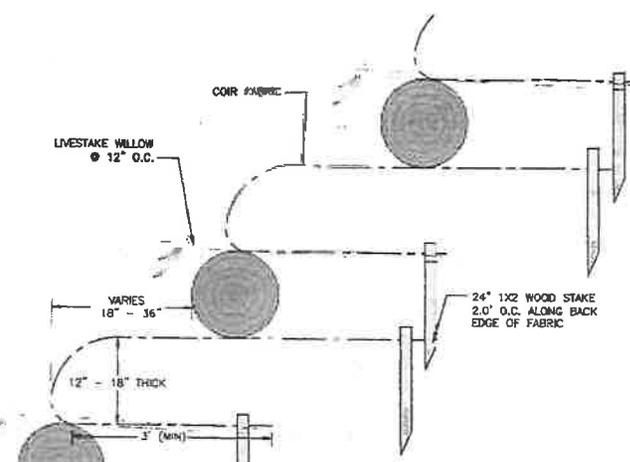
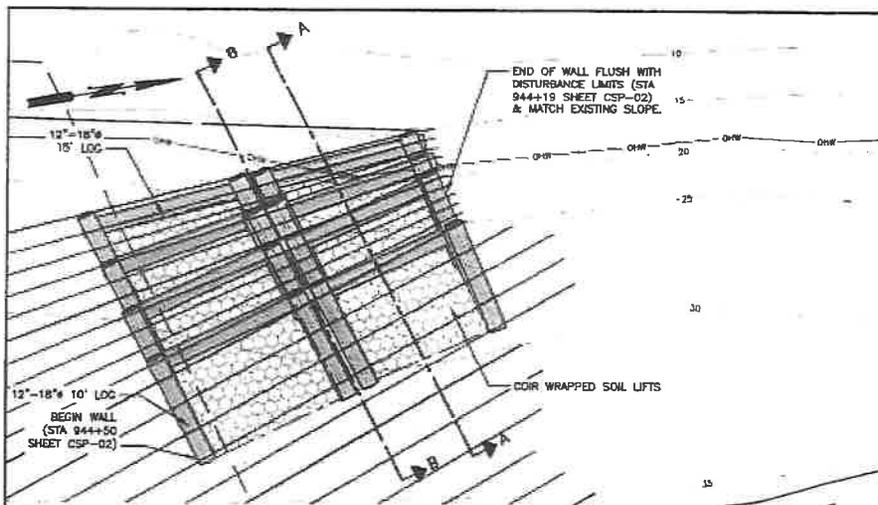
PROJECT No.	1112058
CONTRACT No.	C01415C20



King County
Department of Natural Resources and Parks
Water and Floodplain Management Section
Christie Triv, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
HABITAT WOOD AREA 4
BARB WEDGE JAM #3

SHEET
CHF-21

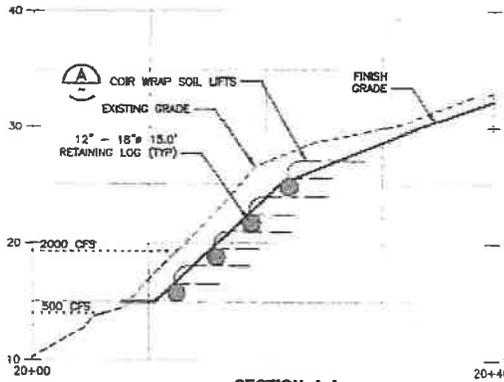
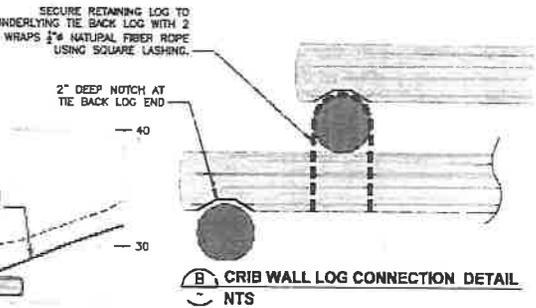


CRIB WALL PLAN

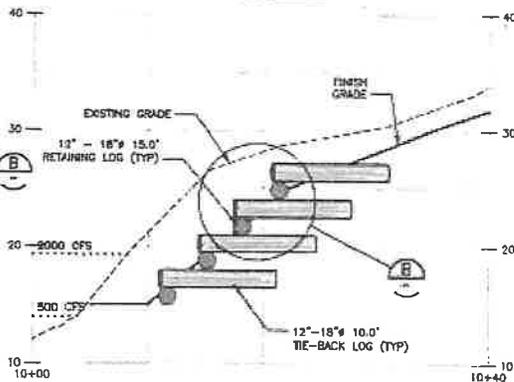
COIR WRAP DETAIL

CRIB WALL LOG WOOD SCHEDULE						
LOG TYPE	ITEM	QUANTITY	UNIT	DIAMETER (IN)	LENGTH (FT)	DESCRIPTION
	TIE-BACK LOG	18	EA	15	10	WOOD MAY BE SOURCED FROM ON-SITE CONIFERS OF ANY SPECIES
	RETAINING LOG	8	EA	15	15	WOOD MAY BE SOURCED FROM ON-SITE CONIFERS OF ANY SPECIES

PLACE LOGS AS DIRECTED BY PROJECT REPRESENTATIVE. LAYOUT MAY VARY FROM THAT SHOWN IN DRAWINGS.



- SEQUENCE NOTES:
- BEGIN WALL AT DOWNSTREAM DISTURBANCE EXTENTS MATCHING EXISTING GRADE. WALL TO EXTEND UPWARDS TO MEET APPROXIMATE 3:1 UPPER SLOPE.
 - BEGIN WALL ON EXISTING ROCK AND SOIL BASE ABOVE EL. 15.0'. SMOOTH BASE AS NECESSARY FOR WALL FOUNDATION.
 - FLARE WALL IN UPSTREAM DIRECTION UNTIL IT MATCHES FINISH GRADE AT APPROXIMATE SLOPE OF 2.5:1.
 - MAKE 2" NOTCHES IN TIE-BACK LOGS TO HOLD RETAINING LOGS. TIE RETAINING LOG TO TIE-BACK LOGS WITH 1/2" NATURAL FIBER ROPE.
 - USE COIR SOIL WRAPS BETWEEN TIE-BACK LOGS TO RETAIN SOIL.
 - INSTALL WILLOW STAKES PER SPECIFICATION SECTION 32 93 35 - LIVE STAKES SECTION 3.2(C).



SECTION A-A

SECTION B-B



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SUMMARY JOB NO./REVISED:		FUNCTION:	
CHECKED:			
DATE ENTERED:	DOH 10/19	PROJECT No.	1112056
DESIGNED BY:	YOC 10/18	CONTRACT No.	C01415C20
CHECKED BY:	CTL 10/19		
SUPERVISOR:	YOC 10/19		
	NUM. RECORD CHANGES APPROVED	BY	DATE

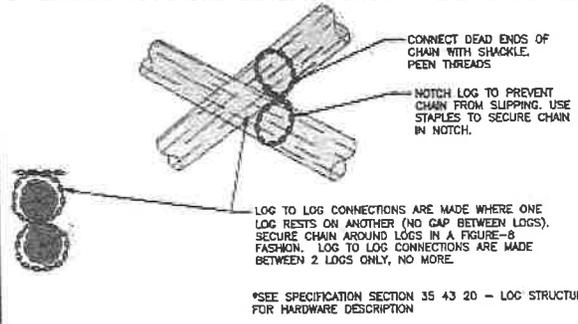


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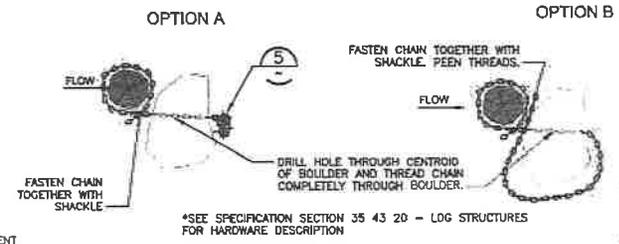
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Tzue, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
HABITAT WOOD AREA 4
CRIB WALL

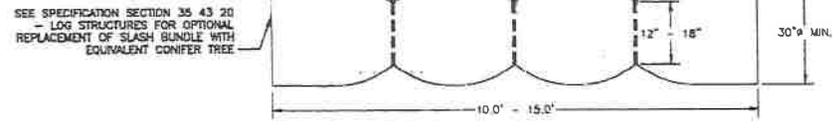
SHEET
CHF-22



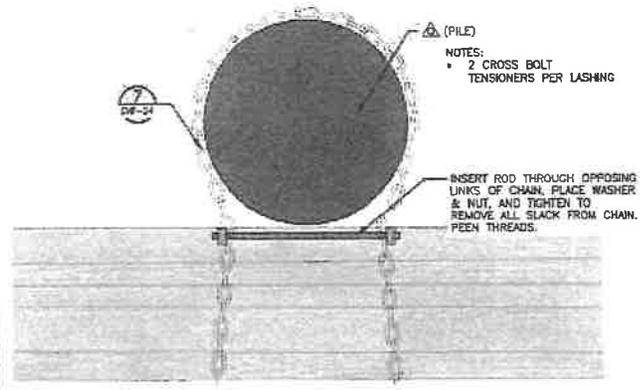
1 LOG TO LOG CONNECTION (TYP)
NTS



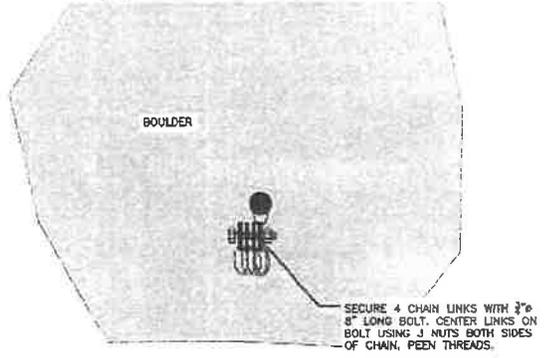
2 LOG TO BOULDER CONNECTION (TYP)
NTS



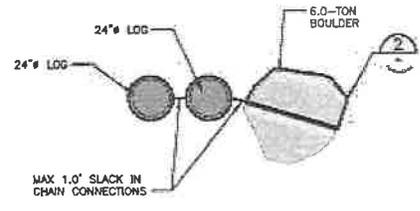
3 SLASH BUNDLE DETAIL
NTS



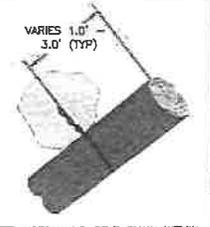
4 CROSS BOLT TENSIONER DETAIL
NTS



5 BOULDER STOPPER DETAIL
NTS



6 DOUBLE TOE LOG CONNECTION DETAIL
NTS



- NOTES:
- PROVIDE 2" DEEP NOTCH AND SEAT CHAIN WITHIN THE GROOVE. USE STAPLES TO SECURE CHAIN WITHIN NOTCH.
 - BOULDERS AS CLOSE TO EACH LOG AS POSSIBLE. NO SLACK IN THE CHAIN UNLESS OTHERWISE NOTED.
 - ALWAYS PLACE BOULDERS ON THE UPSTREAM SIDE OF THE LOGS THEY ARE SECURED TO OR AS DIRECTED BY PROJECT'S REPRESENTATIVE.

PROJECT JOB NO./SUBJECT						FUNDING	
CHECKED:							
DATE ENTERED:	DDH	10/18				PROJECT No.	1112026
DESIGNED:	VCC	10/18	NUM.	REVISION	BY	DATE	
CHECKED:	CTL	10/19				CONTRACT No.	CO1415C20
SUPERVISOR:	VCC	10/18					
	RECAL		RECORD CHANGES APPROVED	BY	DATE		

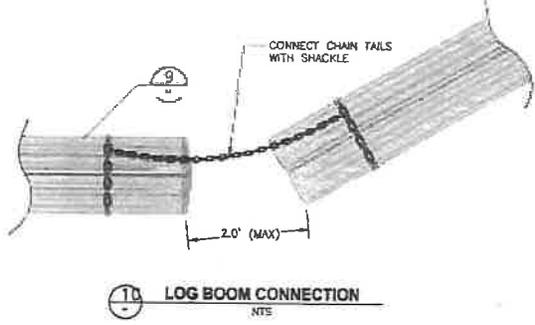
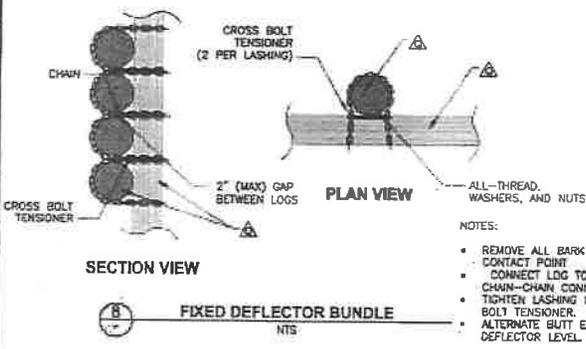
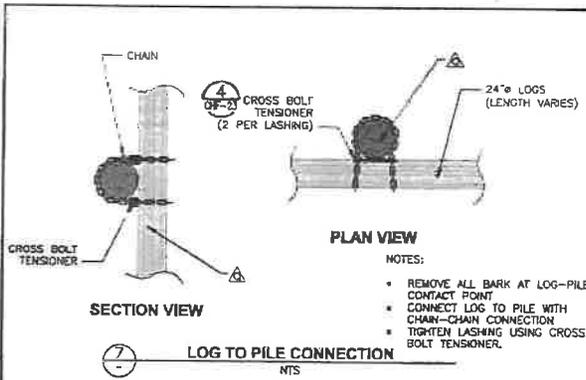


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Water and Land Resources Division
River and Floodplain Management Section
Christie Tzou, Director

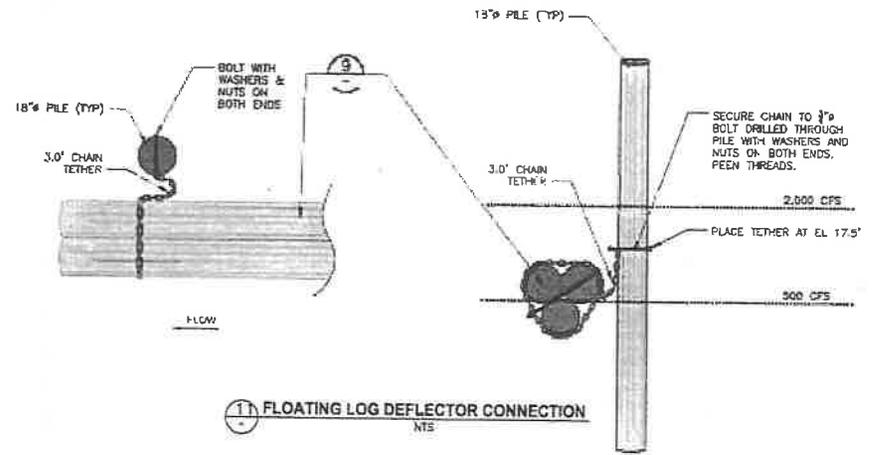
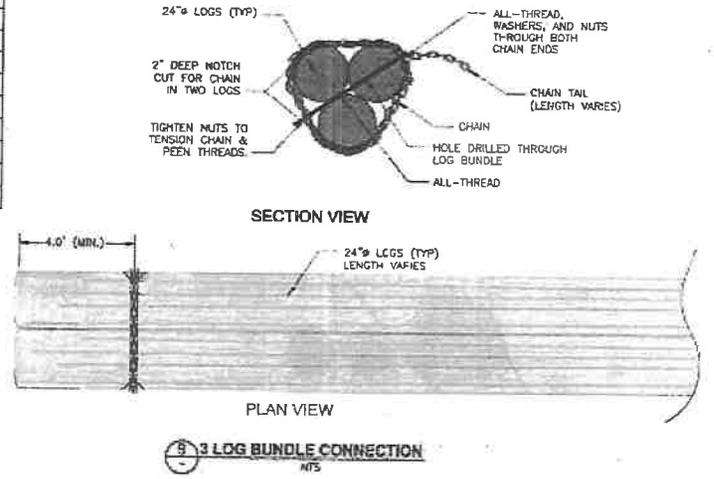
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
STANDARD ANCHORING DETAILS A

SHEET
CHF-23



ALLOWABLE CHAIN TYPE FOR CONNECTIONS	
CONNECTION NAME	ALLOWABLE CHAIN TYPES
LOG TO LOG	LONG LINK OR SHORT LINK
LOG TO BOULDER	LONG LINK
LOG TO PILE	SHORT LINK
DOUBLE TOE LOG	LONG LINK
3 LOG BUNDLE	LONG LINK OR SHORT LINK
LOG BOOM	LONG LINK OR SHORT LINK
FLOATING LOG DEFLECTOR	LONG LINK
ANCHOR MOORING LINE	SHORT LINK

NOTE: SEE SPECIFICATION 35 43 20 FOR ALLOWABLE BOLT/THREADED ROD AND ASSOCIATED HARDWARE SIZE WHERE TWO CHAIN TYPES ARE ALLOWED.



DESIGNED BY	DCH	10/18
CHECKED BY	VDC	10/18
DESIGNED BY	CTL	10/18
CHECKED BY	VDC	10/18
SUPERVISOR		

PROJECT No.	1112058
CONTRACT No.	CD1415C20

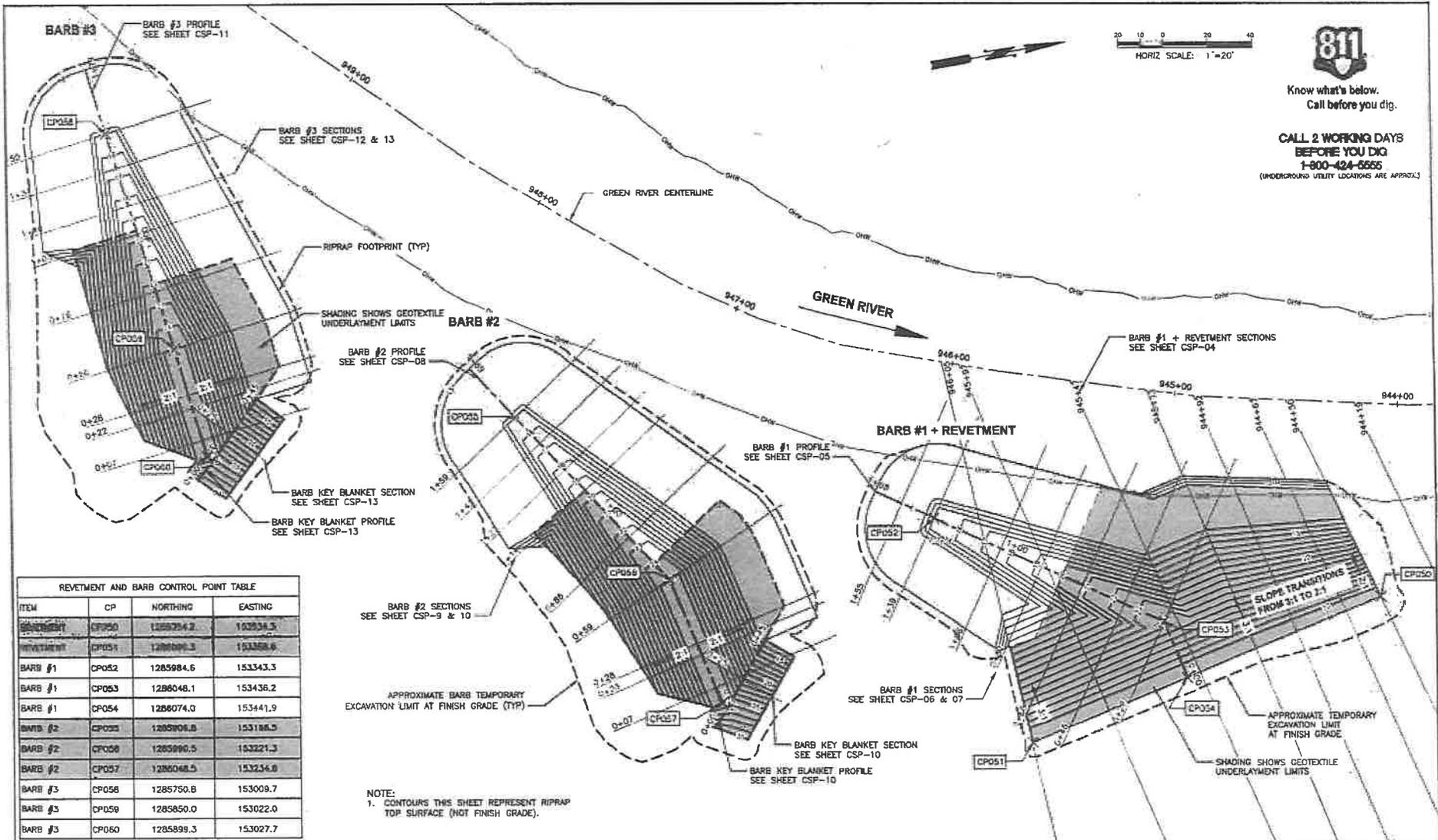


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Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Traa, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
STANDARD ANCHORING DETAILS B

SHEET
CHF-24



REVETMENT AND BARB CONTROL POINT TABLE			
ITEM	CP	NORTHING	EASTING
REVETMENT	CP050	1285254.2	153038.5
REVETMENT	CP051	1285096.3	153358.6
BARB #1	CP052	1285984.6	153343.3
BARB #1	CP053	1286048.1	153436.2
BARB #1	CP054	1286074.0	153441.9
BARB #2	CP055	1285906.8	153185.5
BARB #2	CP056	1285996.5	153221.3
BARB #2	CP057	1286048.5	153234.8
BARB #3	CP058	1285750.8	153009.7
BARB #3	CP059	1285850.0	153022.0
BARB #3	CP060	1285899.3	153027.7

NOTE:
 1. CONTOURS THIS SHEET REPRESENT RIPRAP TOP SURFACE (NOT FINISH GRADE).

SURVEY JOB NO./SOURCE					
CHECKED:					
CAD INTERED:	CTL	10/18			
DESIGNED:	CTL	10/18	TRNL	REMOVED	BY DATE
CHECKED:	DDH	10/19			
SUPERVISOR:	VDC	10/19			
RECORD CHANGES APPROVED:					

FUNDING: _____
 PROJECT No. **1112088**
 CONTRACT No. **001619C20**



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King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

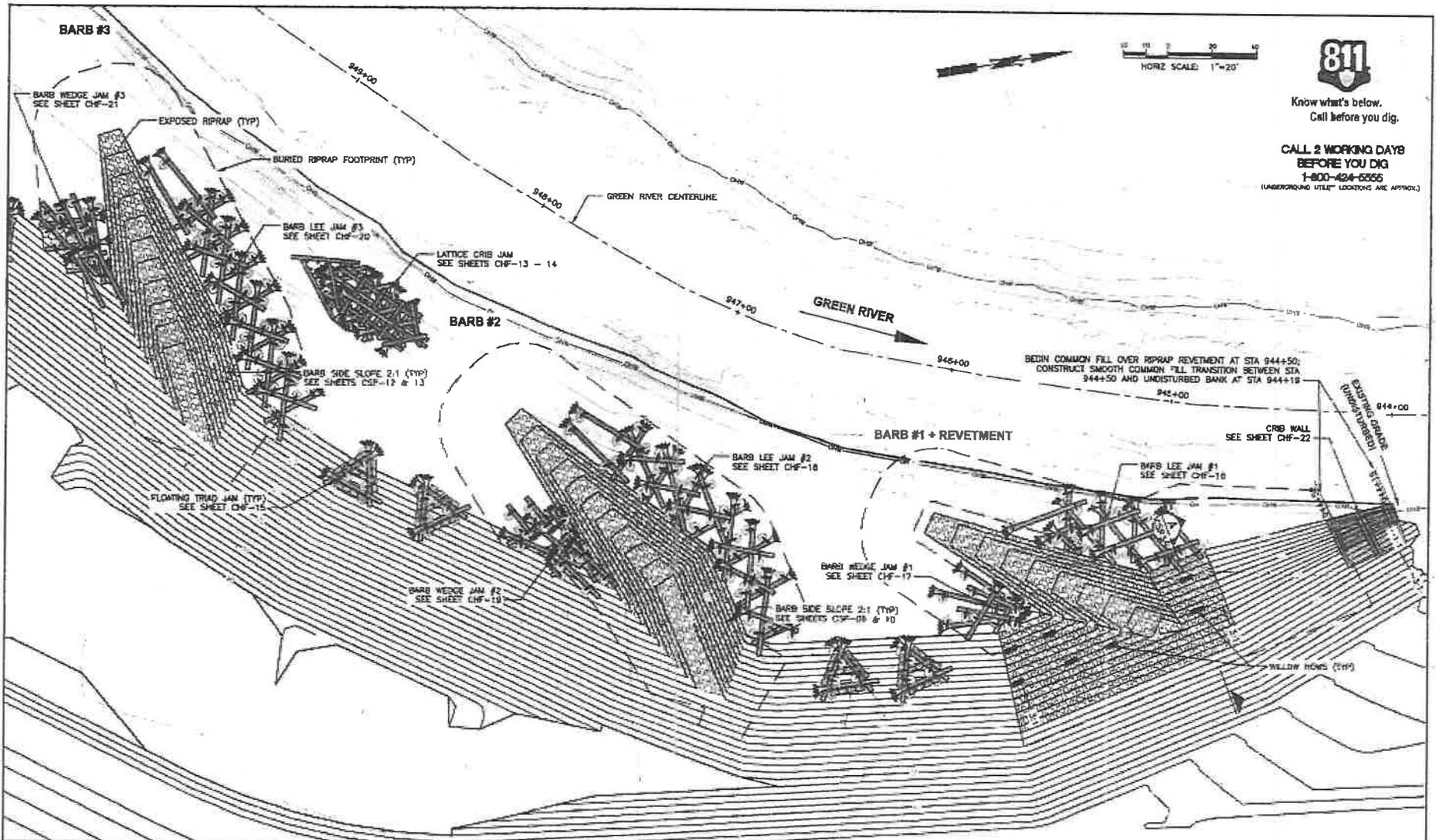
LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
AREA 4 RIPRAP TOP SURFACE

SHEET
CSP-01



Know what's below.
Call before you dig.

**CALL 2 WORKING DAYS
BEFORE YOU DIG**
1-800-424-6355
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



SURVEY JOB NO./SCALE	
CHECKED:	
CAD ENTERED:	CTL 10/19
DESIGNED:	CTL 10/19
CHECKED:	DDH 10/10
SUPERVISOR:	VDC 10/19

REVISION			
NO.	REVISION	BY	DATE

DRAWING	
PROJECT No.	111802B
CONTRACT No.	C21-01C29

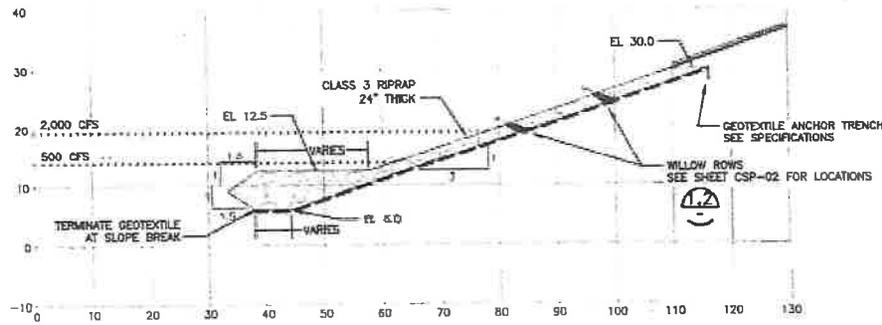


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Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Chadler True, Director

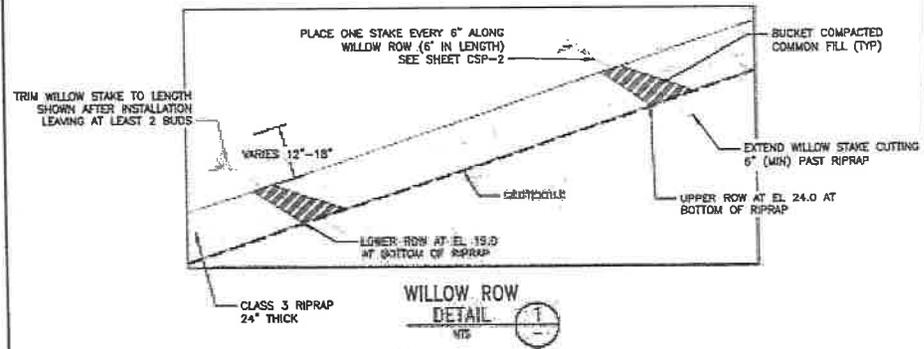
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
AREA 4 FINISH GRADE SURFACE

SHEET
CSP-02

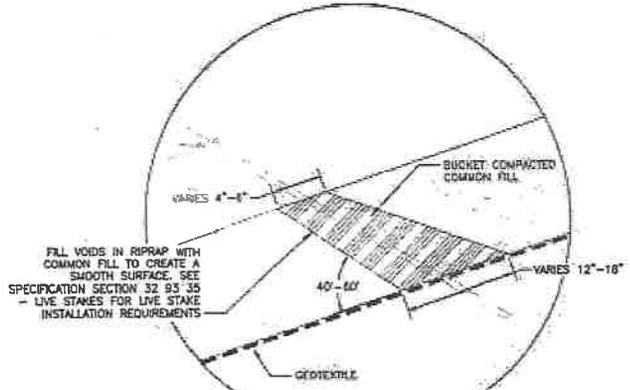


TYPICAL REVETMENT SECTION A

- NOTES:
- TEMPORARY EXCAVATION SLOPE IS THE RESPONSIBILITY OF THE CONTRACTOR. SLOPE OF 1.5:1 ASSUMED FOR QUANTITY ESTIMATION. ACTUAL SLOPE MAY VARY.
 - RIVER WSEL AT 2,000 AND 500 CFS (TYPICAL SUMMER FLOW) SHOWN FOR REFERENCE. GROUNDWATER LEVELS WITHIN EXCAVATION LIMITS MAY VARY SIGNIFICANTLY FROM RIVER WSEL, WHICH MAY ALSO VARY.



WILLOW ROW DETAIL 1



WILLOW ROW DETAIL 2

WILLOW ROW STAKE SCHEDULE (7 ROWS)			
SPECIES	LENGTH (FT)	DIAMETER (IN)	TOTAL QUANTITY
SITKA (SALIX SITCHENSIS)	6	1/2-2	91



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-6666
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./SCALE:		FUNDING:	
CHECKED:		PROJECT No.:	1112066
DATE ENTERED:	CTL 10/19	CONTRACT No.:	001415220
DESIGNED:	CTL 10/19	DATE:	11/28/2019
DESIGNED:	DDH 10/19	REVISION:	
SUPERVISOR:	VDC 10/19	BY:	
DATE:		DATE:	



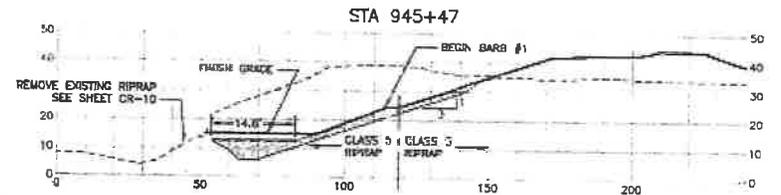
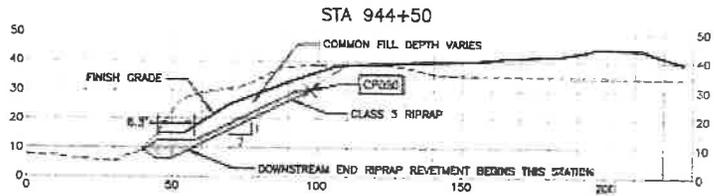
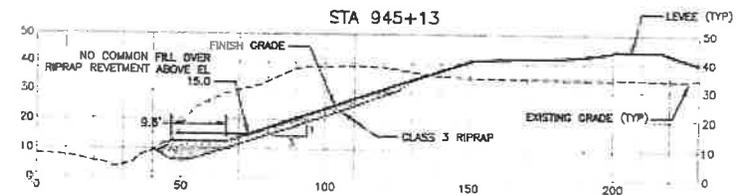
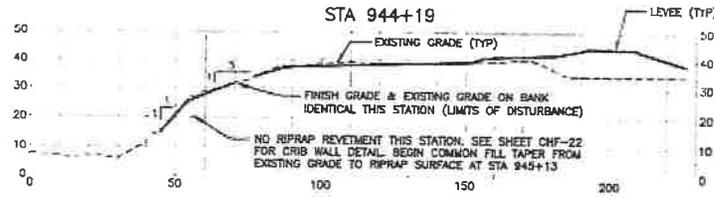
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King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

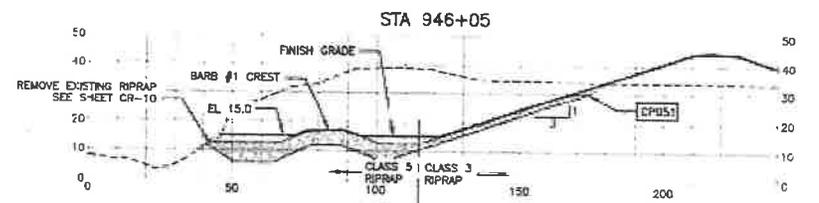
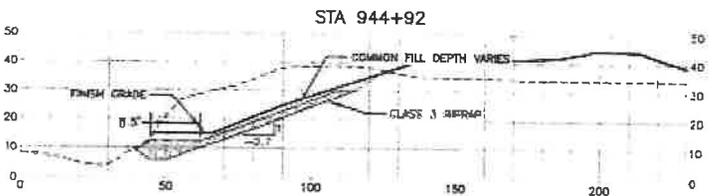
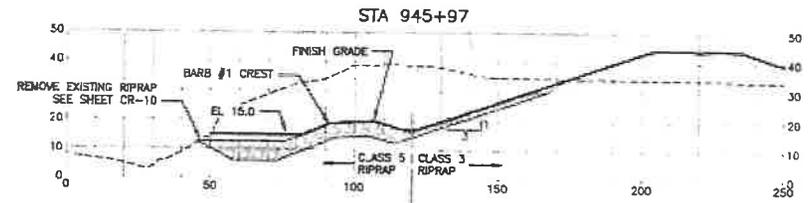
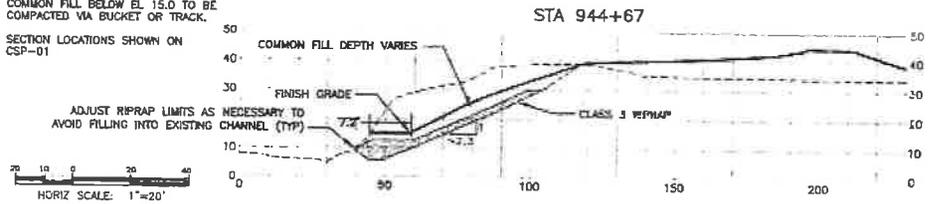
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2

RIPRAP REVETMENT TYPICAL SECTION
 AND WILLOW ROW DETAILS

SHEET
CSP-03



- NOTES:
1. TEMPORARY EXCAVATION SLOPE IS THE RESPONSIBILITY OF THE CONTRACTOR. SLOPE OF 1.5:1 ASSUMED FOR QUANTITY ESTIMATION. ACTUAL SLOPE MAY VARY.
 2. ADJUST RIPRAP LIMITS AS NECESSARY TO AVOID FILLING INTO EXISTING CHANNEL.
 3. COMMON FILL BELOW EL 15.0 TO BE COMPACTED VIA BUCKET OR TRACK.
 4. SECTION LOCATIONS SHOWN ON CSP-01



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./SCALE		FUNDING	
CHECKED:	CTL 10/18	PROJECT No.	111208L
DATE ENTERED:	CTL 10/18	CONTRACT No.	CO2418C20
DESIGNED:	DOH 10/18		
CHECKED:	YOC 10/18		
SUPERVISOR:			
	RECORD CHANGES APPROVED BY DATE		

DATE	BY	DATE



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King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Truss, Director

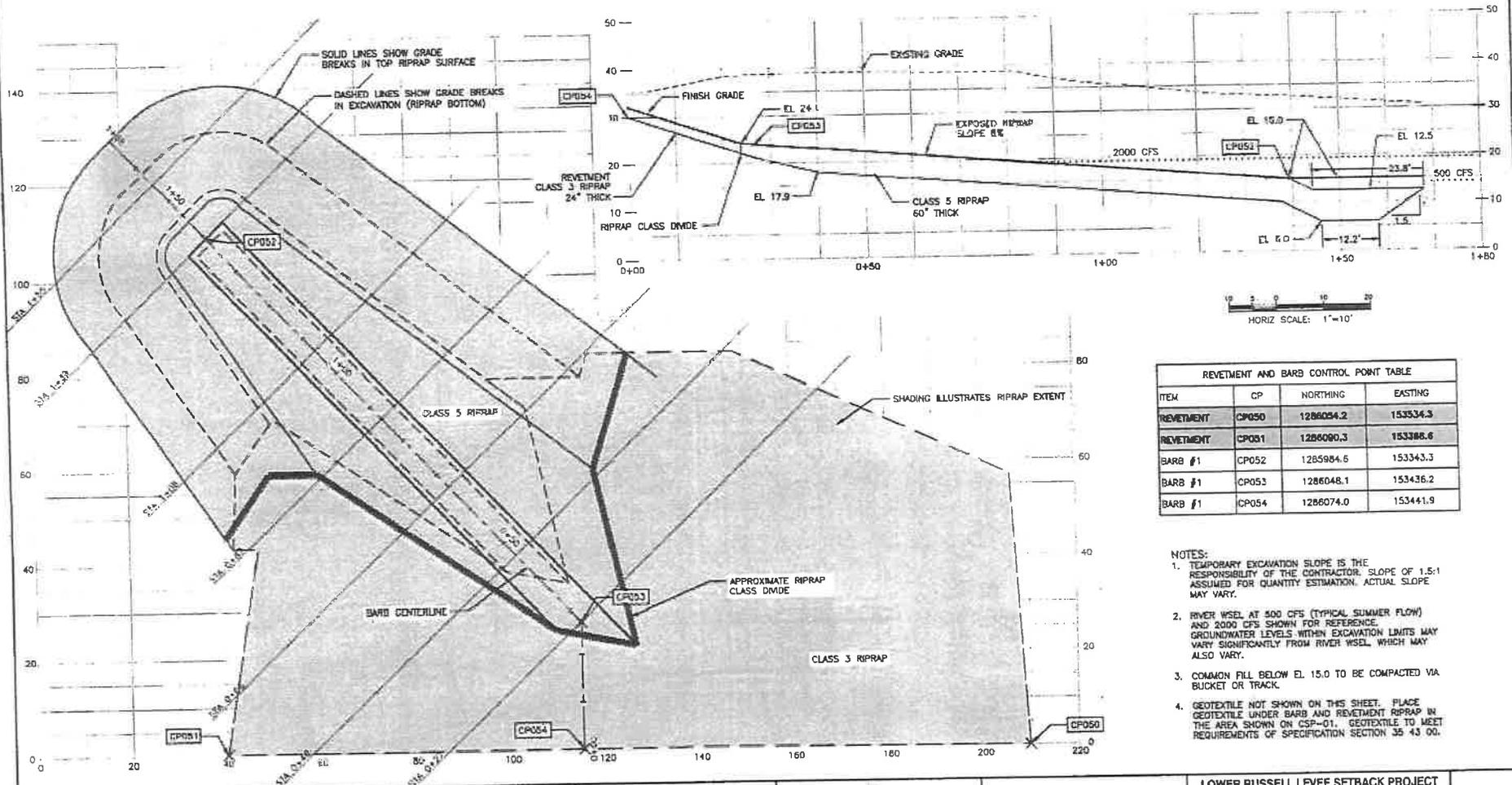
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
RIPRAP REVELTMENT SECTIONS

SHEET
CSP-04

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX)



Know what's below.
Call before you dig.



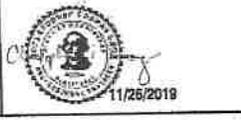
REVETMENT AND BARB CONTROL POINT TABLE			
ITEM	CP	NORTHING	EASTING
REVETMENT	CP050	1286054.2	153343.3
REVETMENT	CP051	1286090.3	153388.6
BARB #1	CP052	1285984.6	153343.3
BARB #1	CP053	1286048.1	153436.2
BARB #1	CP054	1286074.0	153441.9

NOTES:

- TEMPORARY EXCAVATION SLOPE IS THE RESPONSIBILITY OF THE CONTRACTOR. SLOPE OF 1.5:1 ASSUMED FOR QUANTITY ESTIMATION. ACTUAL SLOPE MAY VARY.
- RIVER WSEL AT 500 CFS (TYPICAL SUMMER FLOW) AND 2000 CFS SHOWN FOR REFERENCE. GROUNDWATER LEVELS WITHIN EXCAVATION LIMITS MAY VARY SIGNIFICANTLY FROM RIVER WSEL WHICH MAY ALSO VARY.
- COMMON FILL BELOW EL. 15.0 TO BE COMPACTED VIA BUCKET OR TRUCK.
- GEOTEXTILE NOT SHOWN ON THIS SHEET. PLACE GEOTEXTILE UNDER BARB AND REVETMENT RIPRAP IN THE AREA SHOWN ON CSP-01. GEOTEXTILE TO MEET REQUIREMENTS OF SPECIFICATION SECTION 35 43 00.

SURVEY JOB NO./REVISION:		DATE:	
CHECKED:	CTL	10/19	
DWG. ENTITLED:	CTL	10/19	
DESIGNED:	DCH	10/19	
CHECKED:	YDC	10/19	
SUPERVISOR:			

PROJECT No.	1112066
CONTRACT No.	CD1618C20



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

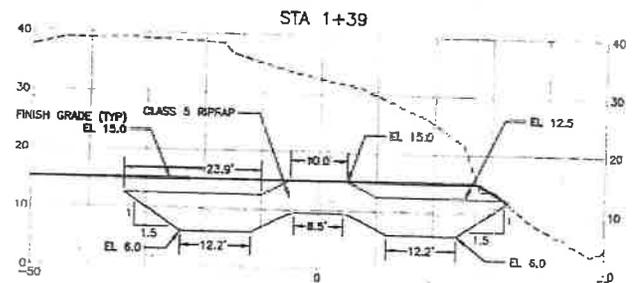
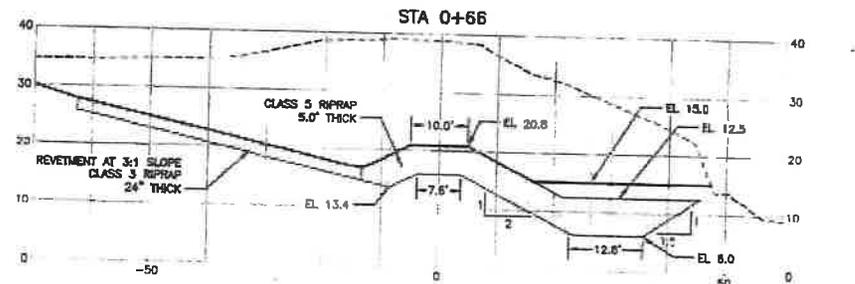
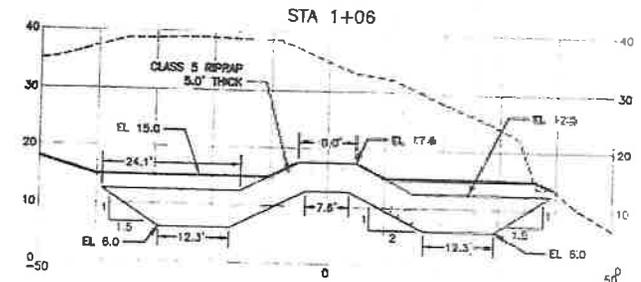
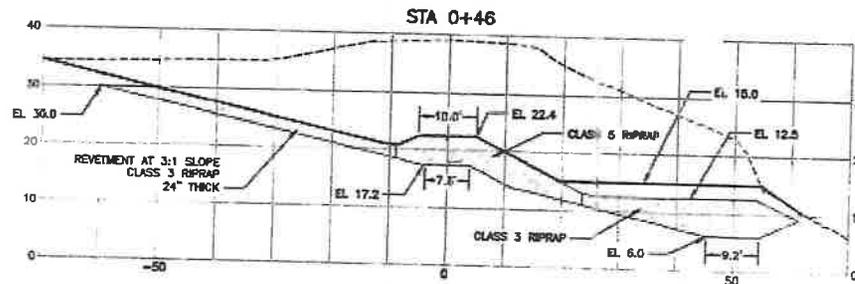
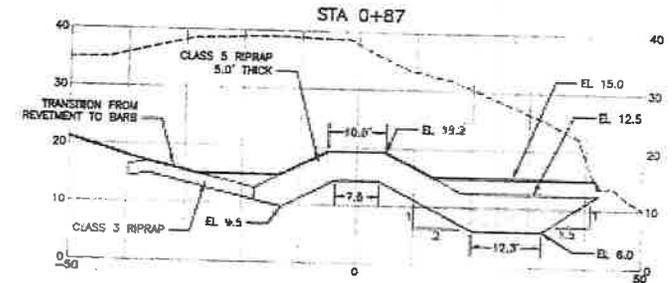
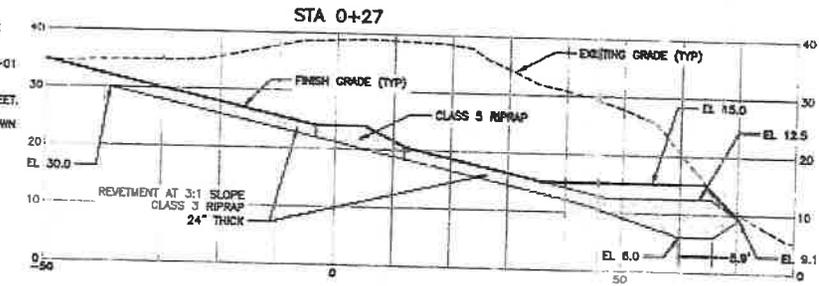
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2

BARB #1
PROFILE AND PLAN

SHEET
CSP-05

NOTES:

1. TEMPORARY EXCAVATION SLOPE IS THE RESPONSIBILITY OF THE CONTRACTOR. SLOPE OF 1.5:1 ASSUMED FOR QUANTITY ESTIMATION. ACTUAL SLOPE MAY VARY.
2. COMMON FILL BELOW EL. 15.0 TO BE COMPACTED VIA BUCKET OR TRACK.
3. SECTION LOCATIONS SHOWN ON CSP-01 AND CSP-05.
4. GEOTEXTILE NOT SHOWN ON THIS SHEET. PLACE GEOTEXTILE UNDER BARB AND REVETMENT RIPRAP IN THE AREA SHOWN ON CSP-01. GEOTEXTILE TO MEET REQUIREMENTS OF SPECIFICATION SECTION 35 43 00.



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./DATE:		FUNDING:	
DESIGNED:	CTL 10/19	PROJECT No.:	1113038
DESIGNED:	CTL 10/19	CONTRACT No.:	001-018020
CHECKED:	DOH 10/18	 11/28/2010	
SUPERVISOR:	VDC 10/19		
RECORD CHANGES APPROVED BY DATE:			

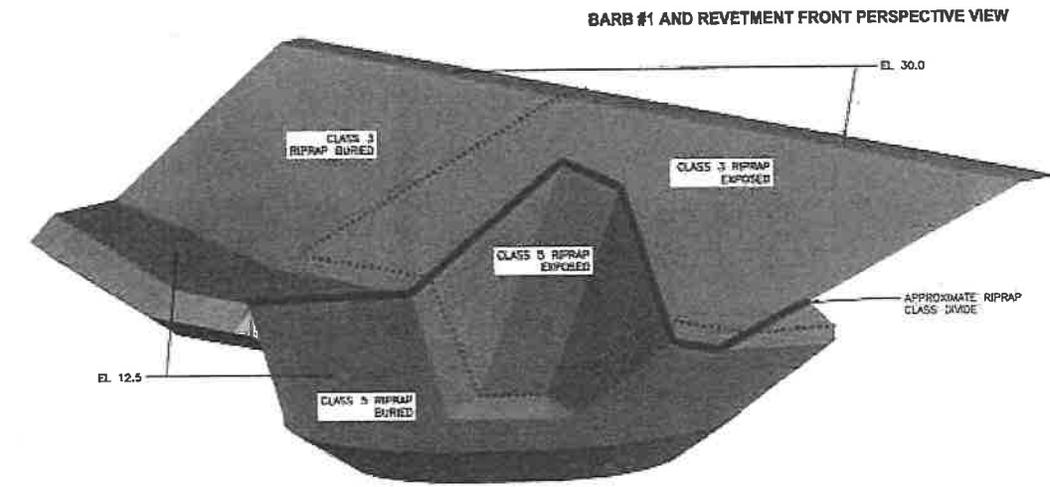
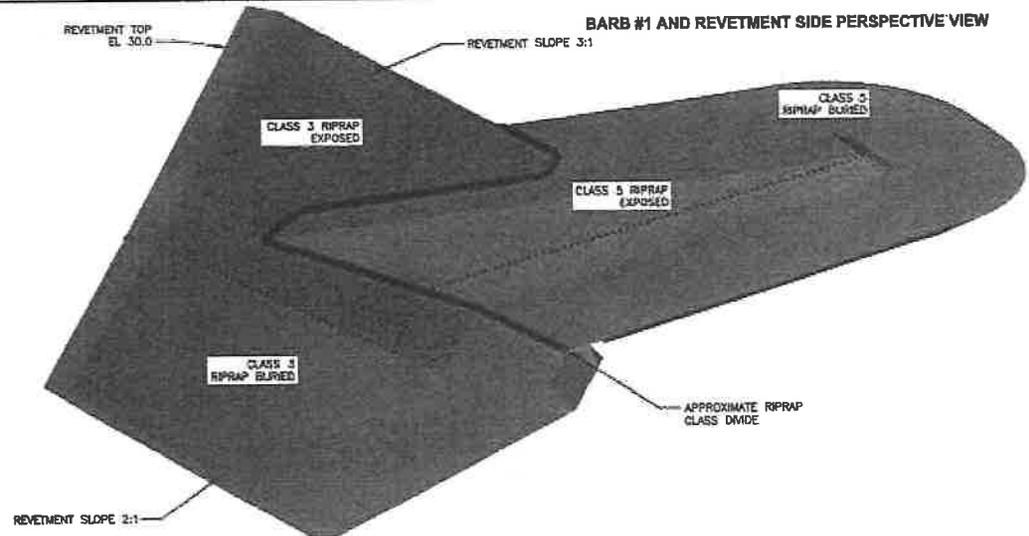
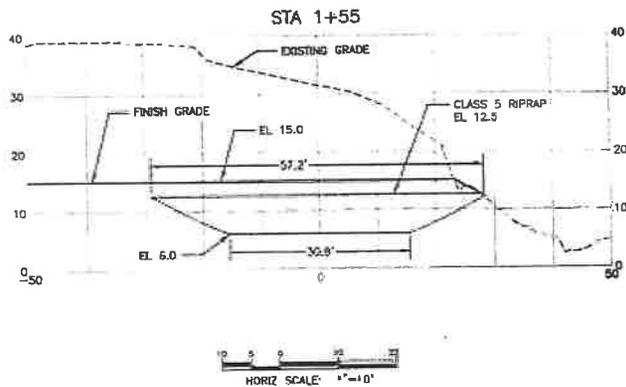
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King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2

BARB #1 SECTIONS

SHEET
CSP-06



- NOTES:
1. TEMPORARY EXCAVATION SLOPE IS THE RESPONSIBILITY OF THE CONTRACTOR. SLOPE OF 1.5:1 ASSUMED FOR QUANTITY ESTIMATION. ACTUAL SLOPE MAY VARY.
 2. COMMON FILL BELOW EL. 15.0 TO BE COMPACTED VIA BUCKET OR TRACK.
 3. SECTION LOCATIONS SHOWN ON CSP-01 AND CSP-05.
 4. GEOTEXTILE NOT SHOWN ON THIS SHEET. PLACE GEOTEXTILE UNDER BARBS AND REVELMENT RIPRAP IN THE AREA SHOWN ON CSP-1. GEOTEXTILE TO MEET REQUIREMENTS OF SPECIFICATION SECTION 35 43 00.



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./SCALE:							
CHECKED:	CTL	10/19					
CAO DATED:	CTL	10/19	SKEL	REVISION	BY	DATE	
DESIGNED:	SOH	10/19					
CHECKED:	YDC	10/19					
SUPERVISOR:							
	R.M.		RECORD CHANGES APPROVED	BY	DATE		

FUNDING:	
PROJECT No.	1112088
CONTRACT No.	001-415C20



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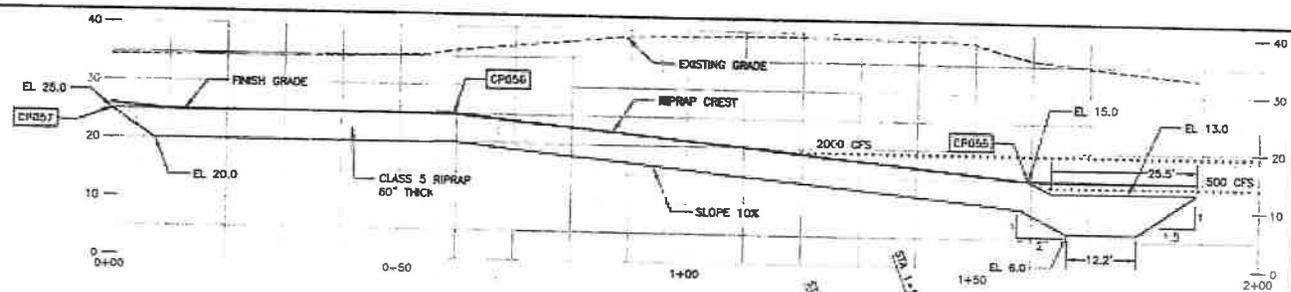
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Tru, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2

BARB #1 SECTIONS
AND PERSPECTIVES

SHEET
CSP-07

- NOTES:
1. TEMPORARY EXCAVATION SLOPE IS THE RESPONSIBILITY OF THE CONTRACTOR. SLOPE OF 1:5:1 ASSUMED FOR QUANTITY ESTIMATION. ACTUAL SLOPE MAY VARY.
 2. RIVER WSEL AT 500 CFS (TYPICAL SUMMER FLOW) AND 2000 CFS SHOWN FOR REFERENCE. GROUNDWATER LEVELS WITHIN EXCAVATION LIMITS MAY VARY SIGNIFICANTLY FROM RIVER WSEL WHICH MAY ALSO VARY.
 3. COMMON FILL BELOW EL. 15.0 TO BE COMPACTED VIA BUCKET OR TRACK.
 4. GEOTEXTILE NOT SHOWN ON THIS SHEET. PLACE GEOTEXTILE UNDER BARB AND REVEMENT RIPRAP IN THE AREA SHOWN ON CSP-01. GEOTEXTILE TO MEET REQUIREMENTS OF SPECIFICATION SECTION 35-43-00.

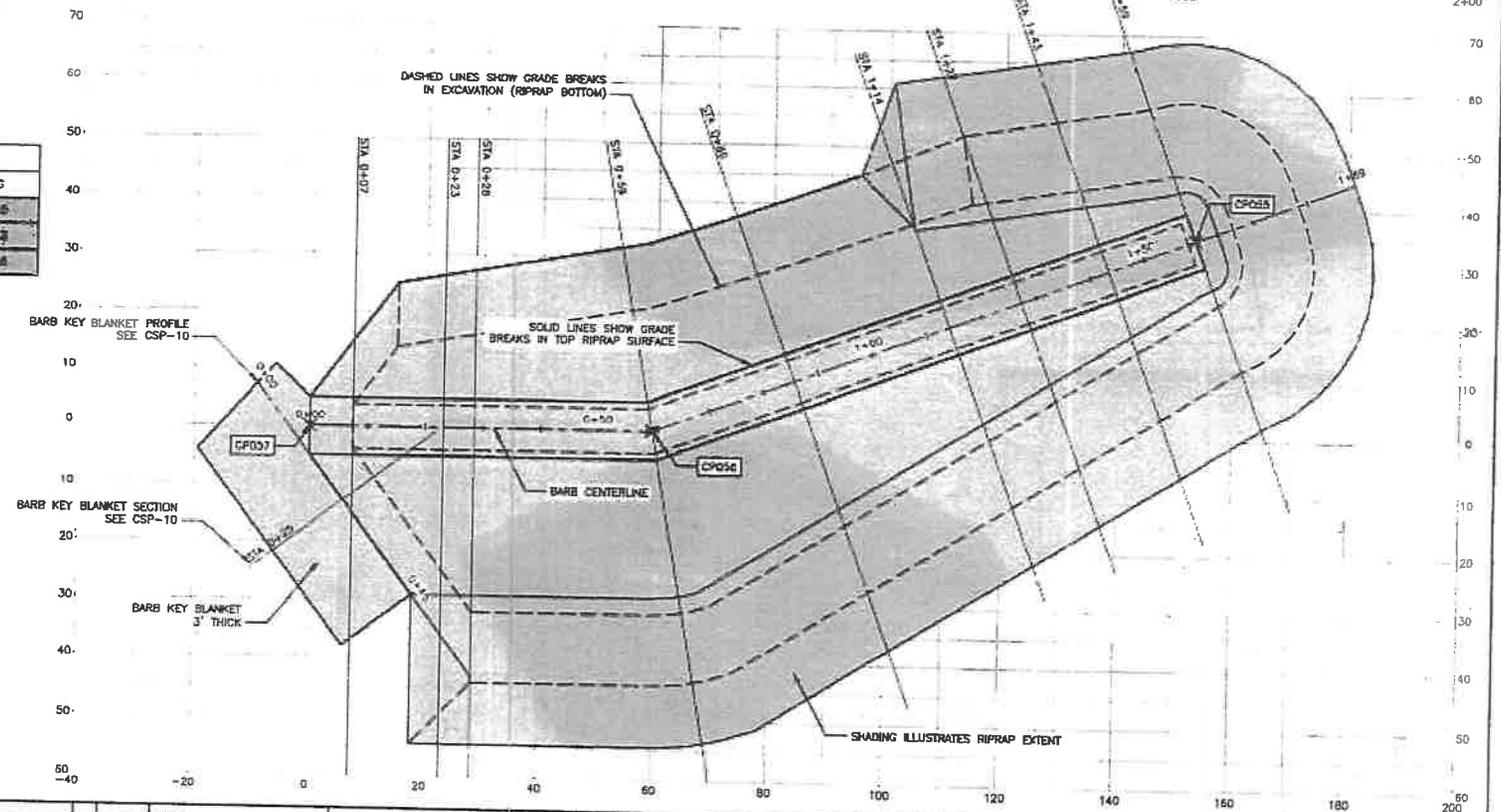


ITEM	CP	NORTHING	EASTING
BARB #1	CP056	1289905.8	103168.5
BARB #2	CP058	1289975.5	103221.2
BARB #3	CP057	1289848.5	103234.6



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



SURVEY JOB NO./SCALE:					
CHECKED:					
CAD ENTERED:	CTL	10/19			
DESIGNED:	CTL	10/19	HEM	REVISION	BY DATE
CHECKED:	DOH	10/19			
SUPERVISOR:	VDC	10/19			
			SCALE	RECORD CHANGES APPROVED	BY DATE

FUNDING:	
PROJECT No.	1118008
CONTRACT No.	09141820

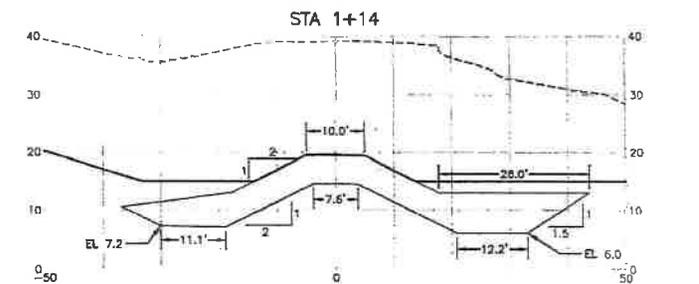
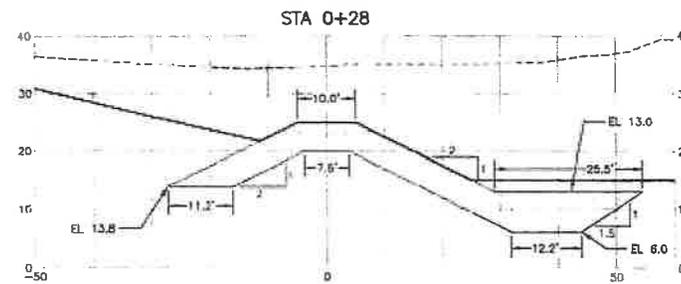
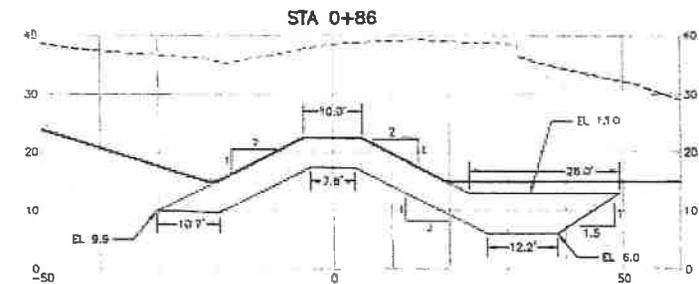
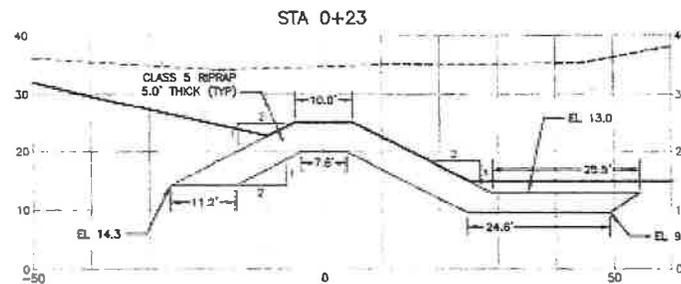
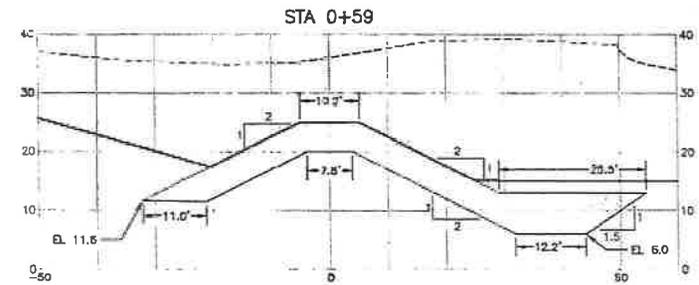
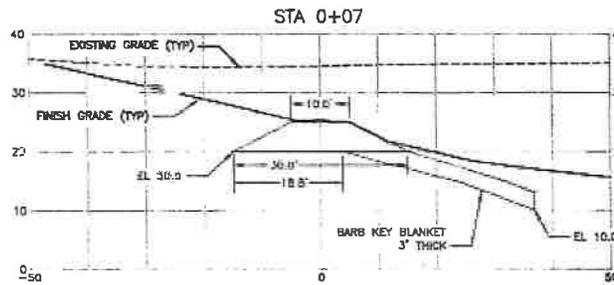


King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christa True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
BARB #2
PROFILE AND PLAN

SHEET
CSP-08

- NOTES:
- TEMPORARY EXCAVATION SLOPE IS THE RESPONSIBILITY OF THE CONTRACTOR. SLOPE OF 1.5:1 ASSUMED FOR QUANTITY ESTIMATION. ACTUAL SLOPE MAY VARY.
 - COMMON FILL BELOW EL 15.0 TO BE COMPACTED VIA BUCKET OR TRACK.
 - SECTION LOCATIONS SHOWN ON CSP-01 AND CSP-08.
 - GEOTEXTILE NOT SHOWN ON THIS SHEET. PLACE GEOTEXTILE UNDER BARB AND REVEITEMT RIPRAP IN THE AREA SHOWN ON CSP-01. GEOTEXTILE TO MEET REQUIREMENTS OF SPECIFICATION SECTION 35.43.00.



HORIZ SCALE: 1"=10'



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./SOURCE				FILED			
CHECKED:	CTL	10/19					
CAD ENTERED:	CTL	10/19	NAME	REVISION	BY	DATE	
DESIGNED:	DDH	10/19					
CHECKED:	VDC	10/19					
SUPERVISOR:			NAME	RECORD CHANGES APPROVED	BY	DATE	

PROJECT No.	1112088
CONTRACT No.	CO141820



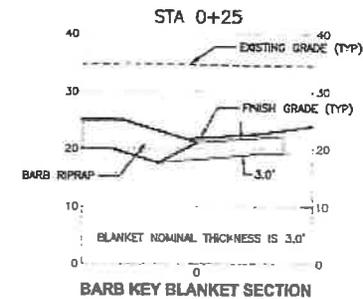
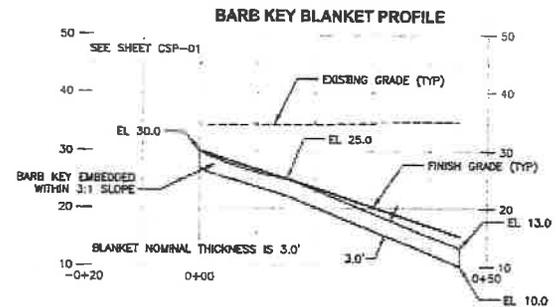
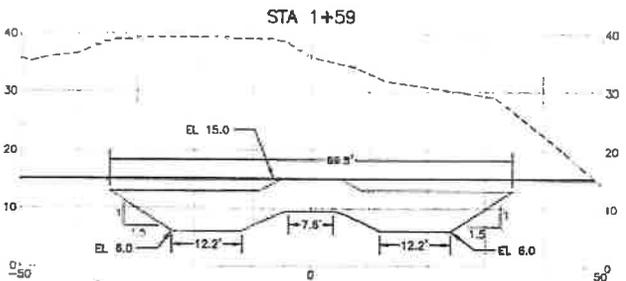
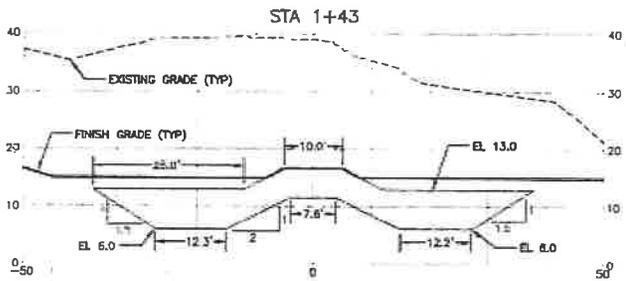
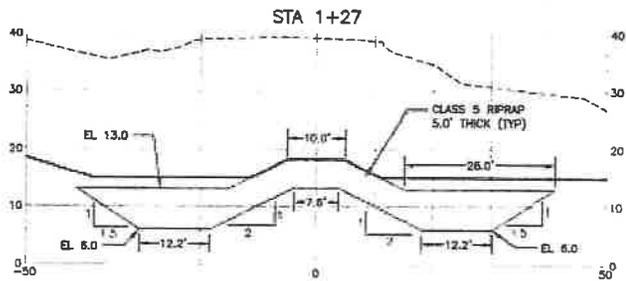
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Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Chizobe Trus, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2

BARB #2 SECTIONS

SHEET
CSP-09



- NOTES:
1. TEMPORARY EXCAVATION SLOPE IS THE RESPONSIBILITY OF THE CONTRACTOR. SLOPE OF 1.5:1 ASSUMED FOR QUANTITY ESTIMATION. ACTUAL SLOPE MAY VARY.
 2. COMMON FILL BELOW EL 15.0 TO BE COMPACTED VIA BUCKET OR TRACK.
 3. SECTION LOCATIONS SHOWN ON CSP-01 AND CSP-08.
 4. GEOTEXTILE NOT SHOWN ON THIS SHEET. PLACE GEOTEXTILE UNDER BARBS AND REVEMENT RIPRAP IN THE AREA SHOWN ON CSP-01. GEOTEXTILE TO MEET REQUIREMENTS OF SPECIFICATION SECTION 35 43 00.



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./NAME:				PLANNING:	
CHECKED:					
CAD DRAWN:	CTL 10/18				
CHECKED:	CTL 10/18	DATE	REVISION	BY	DATE
CHECKED:	DDH 10/19				
SUPERVISOR:	VGC 10/19				
M.M.L. RECORD CHANGES APPROVED BY DATE				PROJECT No. 11128000	
				CONTRACT No. 001-015C-00	



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King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Truss, Director

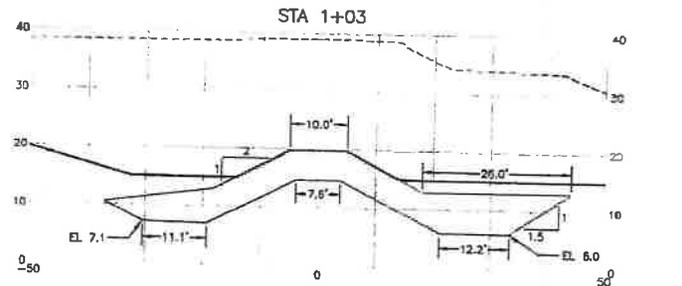
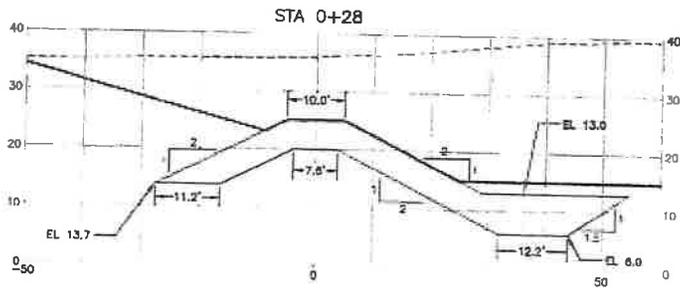
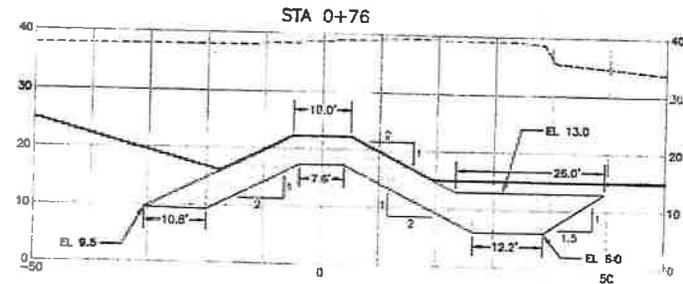
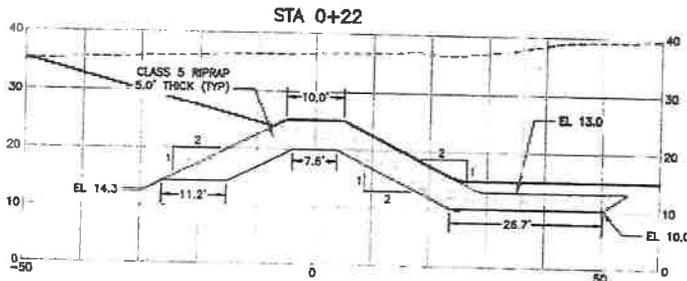
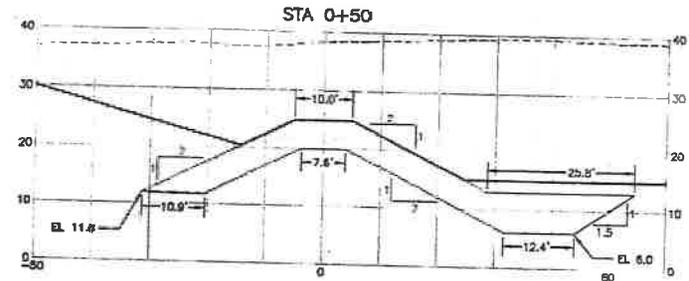
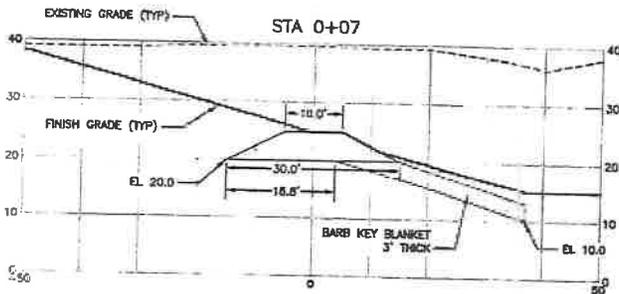
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2

BARB #2 SECTIONS
AND KEY BLANKET

SHEET
CSP-10

NOTES:

1. TEMPORARY EXCAVATION SLOPE IS THE RESPONSIBILITY OF THE CONTRACTOR. SLOPE OF 1.5:1 ASSUMED FOR QUANTITY ESTIMATION. ACTUAL SLOPE MAY VARY.
2. COMMON FILL BELOW EL. 15.0 TO BE COMPACTED VIA BUCKET OR TRACK.
3. SECTION LOCATIONS SHOWN ON CSP-01 AND CSP-11.
4. GEOTEXTILE NOT SHOWN ON THIS SHEET. PLACE GEOTEXTILE UNDER BARB AND REVEIMENT RPRAP IN THE AREA SHOWN ON CSP-01. GEOTEXTILE TO MEET REQUIREMENTS OF SPECIFICATION SECTION 35.43.00.



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./SUBJOB:					
CHECKED:					
DATE ENTERED:	CIL	10/19			
DESIGNED:	CIL	10/19	HWL	REVISION	BY DATE
CHECKED:	DDH	10/19			
SUPERVISOR:	VDC	10/19			
	HWL		RECORD CHANGES APPROVED	BY	DATE

PROJECT No. 1118058
CONTRACT No. C01-415C-00

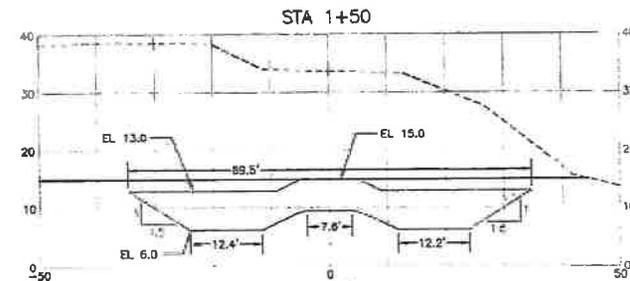
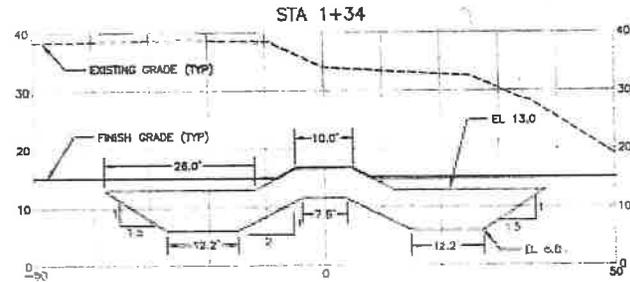
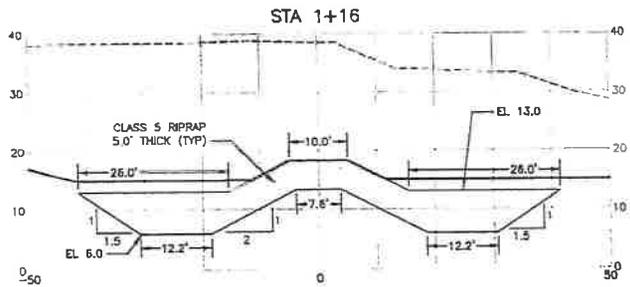


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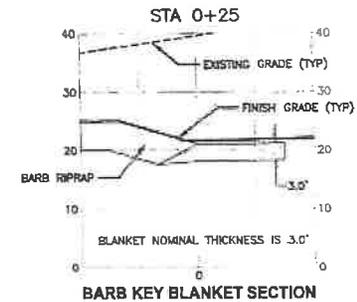
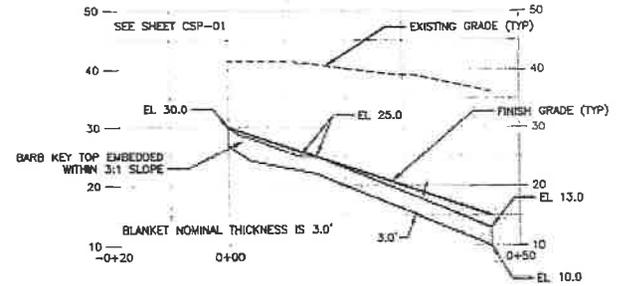
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
BARB #3 SECTIONS

SHEET
CSP-12



BARB KEY BLANKET PROFILE



- NOTES:
1. TEMPORARY EXCAVATION SLOPE IS THE RESPONSIBILITY OF THE CONTRACTOR. SLOPE OF 1.5:1 ASSUMED FOR QUANTITY ESTIMATION. ACTUAL SLOPE MAY VARY.
 2. COMMON FILL BELOW EL 15.0 TO BE COMPACTED VIA BUCKET OR TRACK.
 3. SECTION LOCATIONS SHOWN ON CSP-01 AND CSP-11.
 4. GEOTEXTILE NOT SHOWN ON THIS SHEET. PLACE GEOTEXTILE UNDER BARB AND REVELMENT RIPRAP IN THE AREA SHOWN ON CSP-01. GEOTEXTILE TO MEET REQUIREMENTS OF SPECIFICATION SECTION 35 43 00.

HORIZ SCALE: 1"=10'



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./SCALE:						PURPOSE:	
CHECKED:	CTL	10/19				PRODUCT No.	1112066
CAD ENTERED:	CTL	10/19	MMB	REVISION	BY	DATE	
DESIGNED:	BOH	10/19				CONTRACT No.	001#15C20
CHECKED:	YDC	10/19					
SUPERVISOR:							
	MMB		RECORD CHANGES APPROVED	BY	DATE		



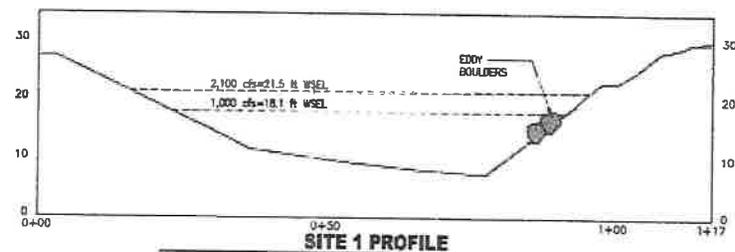
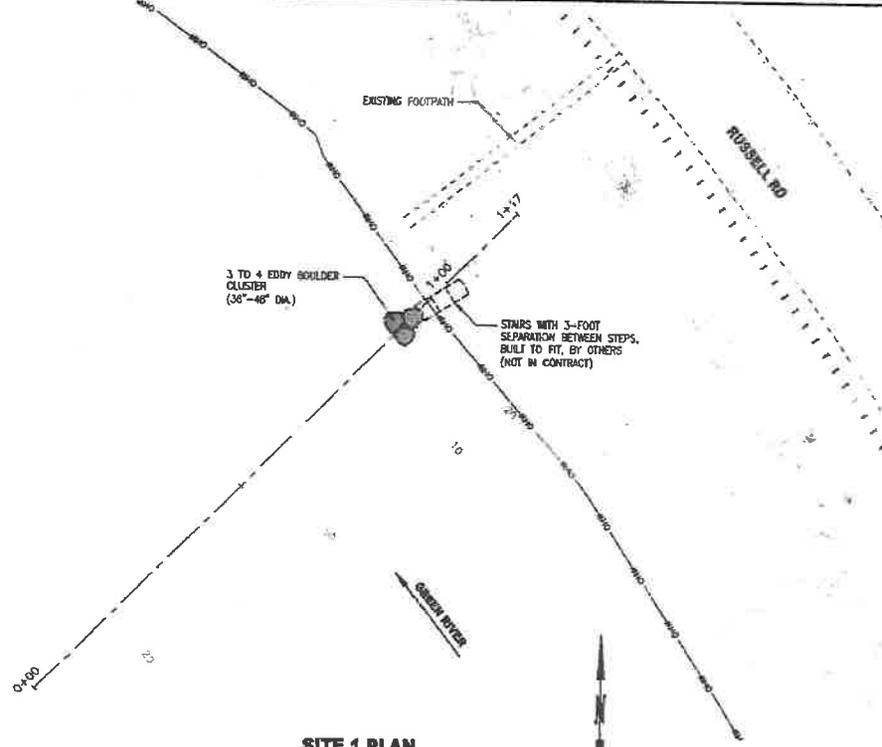
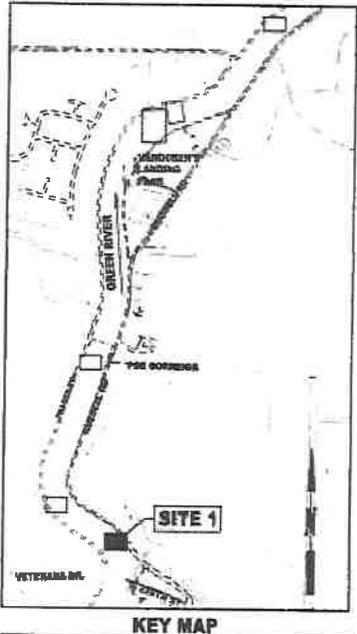
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northwest
hydraulic
consultants

King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Truse, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2

BARB #3 SECTIONS
AND KEY BLANKET

SHEET
CSP-13



- NOTES:**
1. PURPOSE: A ROCK STRUCTURE THAT WILL DEFLECT FLOW AND FORM AN EDDY IMMEDIATELY DOWNSTREAM.
 2. SE" OF ELEVATION OF ROCK STRUCTURE BETWEEN ELEVATION 18 AND 20.
 3. ROCK STRUCTURE TO BE PLACED IMMEDIATELY DOWNSTREAM OF EXISTING LOG PARTLY BURIED IN BANK, AS DIRECTED BY PROJECT REPRESENTATIVE.
 4. EXISTING CHAINED LOG DOWNSTREAM OF ROCK STRUCTURE LOCATION TO BE REMOVED.



Know what's below.
Call before you dig.

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./SOURCE:			
CHECKED:			
CAD ENTERED:	K. KITAJIMA	11/2019	
DESIGNED:	ERIK PETERS, P.E.	11/2019	REVISION
CHECKED:	ERIK PETERS, P.E.	11/2019	BY DATE
SUPERVISOR:	LORIN KENELT, P.E.	11/2019	
RECORD CHANGES APPROVED BY:		DATE:	

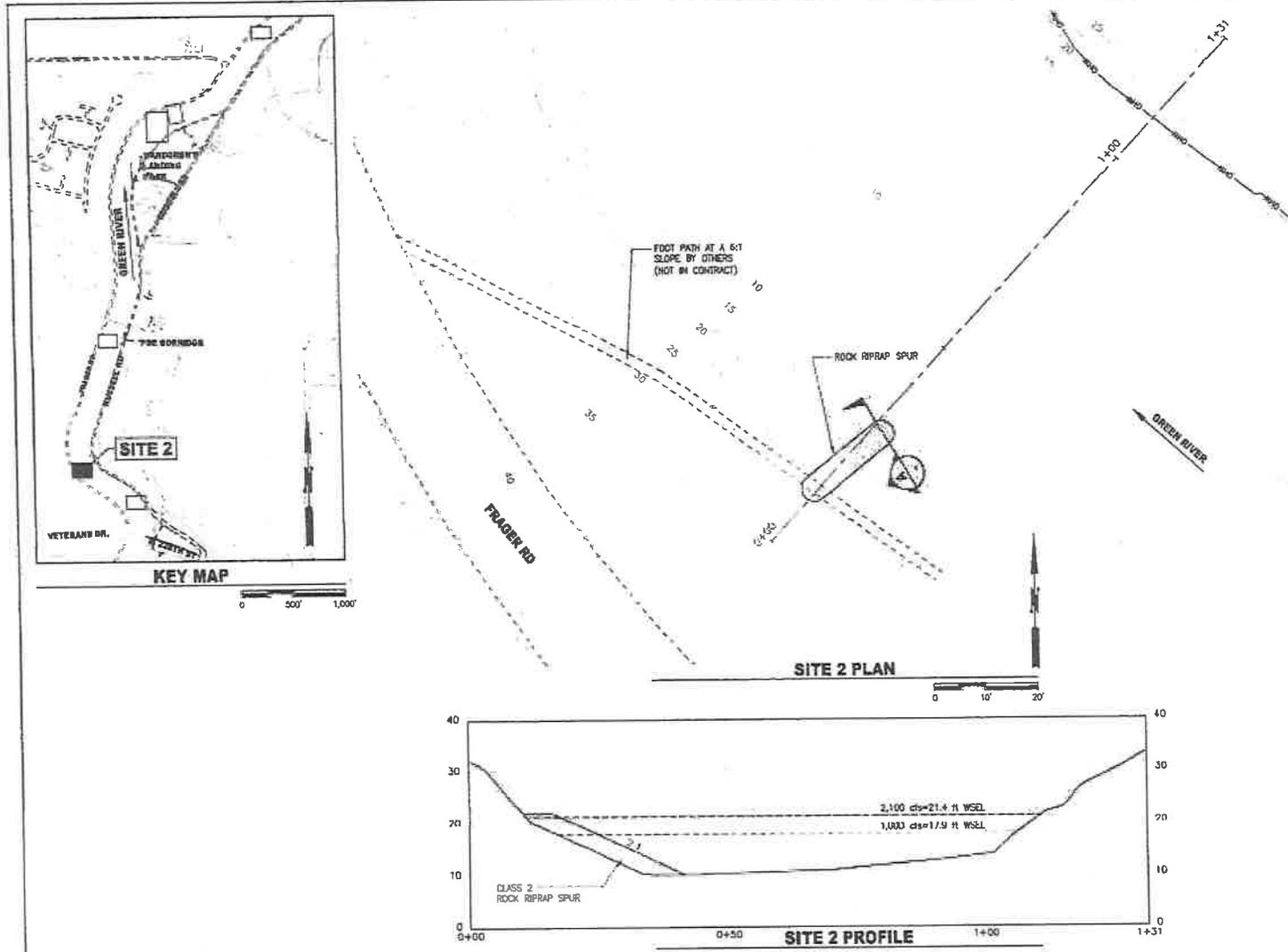
FUNDING:	
PROJECT No.	1112056
CONTRACT No.	C01415C20



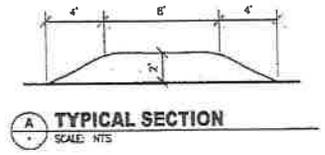
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Truss, Director

LOWER RUSSELL LEVEE SETBACK PROJECT PHASE 2		SHEET
SITE 1 EDDY FEATURE		CSP-14

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- NOTES:**
1. PURPOSE: A ROCK STRUCTURE THAT WILL DEFLECT FLOW AND FORM AN EDDY IMMEDIATELY DOWNSTREAM.
 2. SET TOP ELEVATION OF ROCK STRUCTURE BETWEEN ELEVATION 22 AND 23.
 3. PROTECT EXISTING TRAIL SURFACE.
 4. PLACE ROCK WITH CRANE DUE TO ACCESS CONSTRAINTS.



Know what's below.
Call before you dig.
(UNDERGROUND UTILITY LOCATIONS VARY APPROX.)

SURVEY JOB NO./SHEET:					
CHECKED:	K. KITAMURA	11/2019			
DRAWN BY:	ERIK PETERS, P.E.	11/2019	SCALE	REVISION	BY DATE
CHECKED:	ERIK PETERS, P.E.	11/2019			
SUPVISED BY:	LORN REBELT, P.E.	11/2019			
			SCALE	RECORD CHANGES APPROVED	BY DATE

FUNDING:

PROJECT NO. 1112056

CONTRACT NO. C01415C20



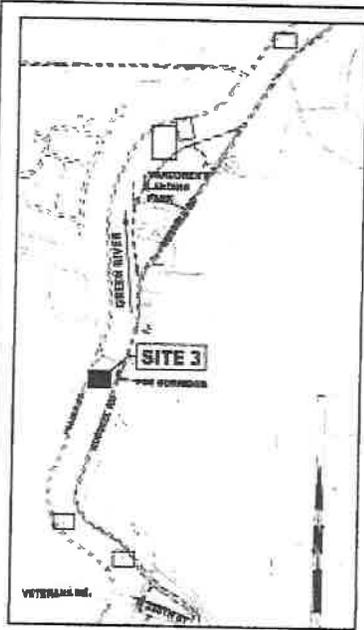
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Riparian Management Section
Christie Truss Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2

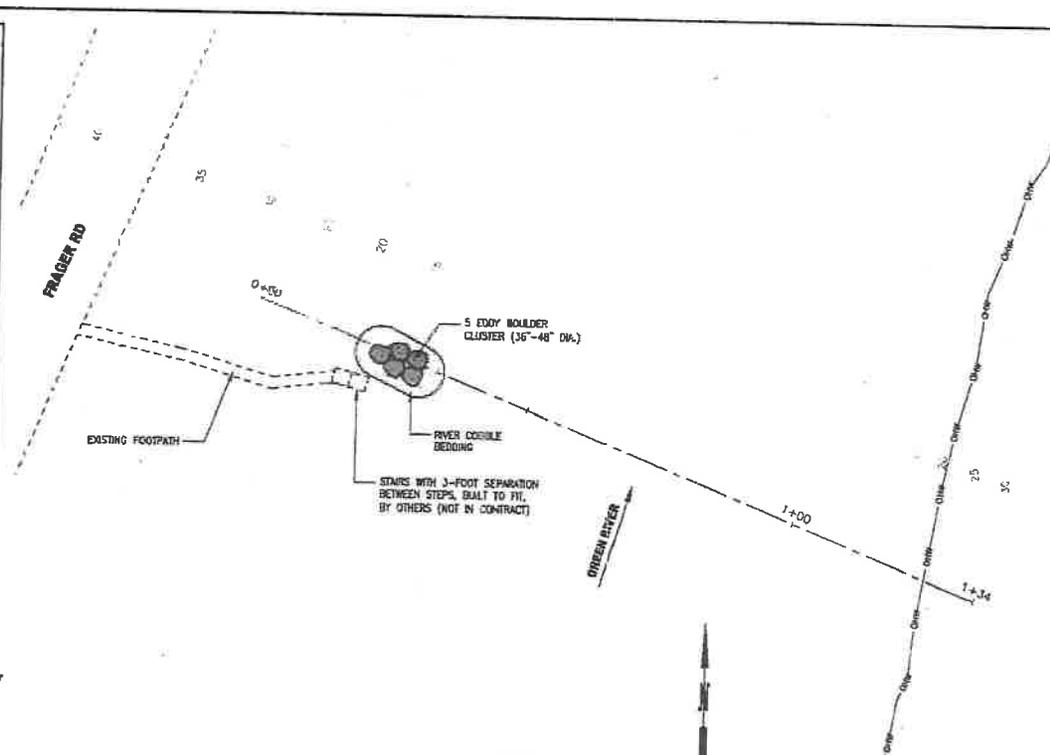
SITE 2 EDDY FEATURE

SHEET
CSP-15

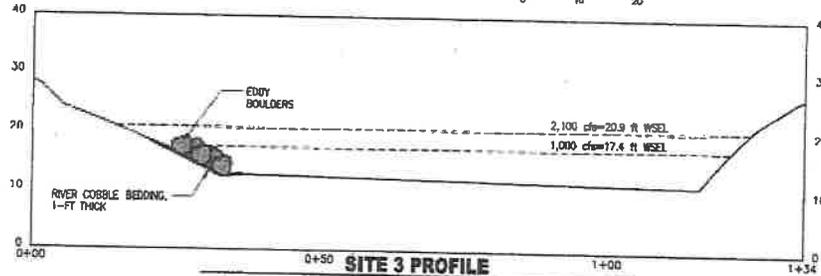
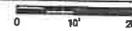
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KEY MAP



SITE 3 PLAN



SITE 3 PROFILE

NOTES:

1. PURPOSE: A ROCK STRUCTURE THAT WILL DEFLECT FLOW AND FORM AN EDDY IMMEDIATELY DOWNSTREAM.
2. SET TOP ELEVATION OF ROCK STRUCTURE BETWEEN ELEVATION 18 AND 19.
3. PROTECT EXISTING TRAIL SURFACE.
4. PLACE ROCK WITH CRANE DUE TO ACCESS CONSTRAINTS.



Know what's below.
Call before you dig.
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./SCALE:					
CHECKED:	K. KITAMURA	11/2018			
CAD ENTERED:	ERIK PETERS, P.E.	11/2018			
DESIGNED:	ERIK PETERS, P.E.	11/2018			
CHECKED:	LORIN REINELT, P.E.	11/2019			
SUPERVISOR:					
	RECORD CHANGES APPROVED	BY	DATE		

FUNDED:	
PROJECT No.	1112056
CONTRACT No.	C01415C20

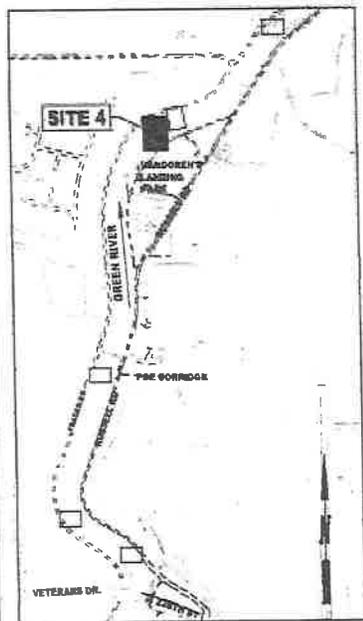


King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christa Trun, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2

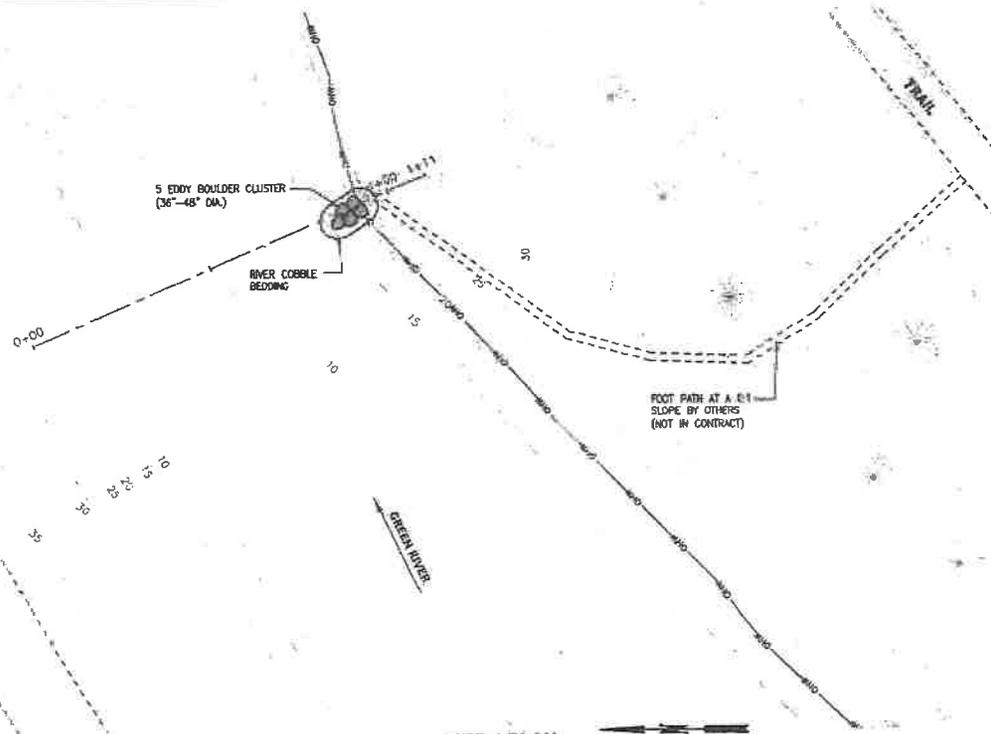
SITE 3 EDDY FEATURE

SHEET
CSP-16



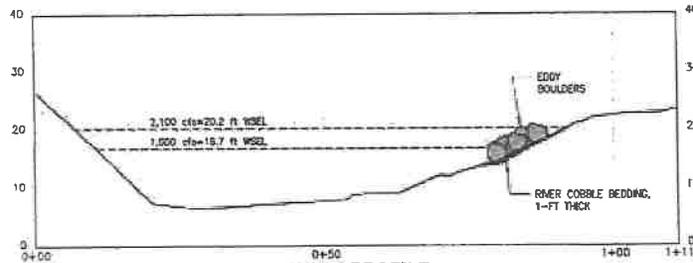
KEY MAP

0 500' 1,000'



SITE 4 PLAN

0 15' 30'



SITE 4 PROFILE

NOTES:

1. PURPOSE: A ROCK STRUCTURE THAT WILL DEFLECT FLOW AND FORM AN EDDY IMMEDIATELY DOWNSTREAM.
2. SEE TOP ELEVATION OF ROCK STRUCTURE BETWEEN ELEVATION 21 AND 22.



Know what's below.
Call before you dig.
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./SOURCE			
CHECKED:			
CAD ENTERED:	Y. KITAMURA	11/2018	
DESIGNED:	ERIK PETERS, P.E.	11/2018	
CHECKED:	ERIK PETERS, P.E.	11/2018	
SUPERVISOR:	LORIN REINHILT, P.E.	11/2018	
DATE	REVISION	BY	SITE
	RECORD CHANGES APPROVED	BY	DATE

FUNDING: _____
PROJECT No. 1112058
CONTRACT No. C01415C20

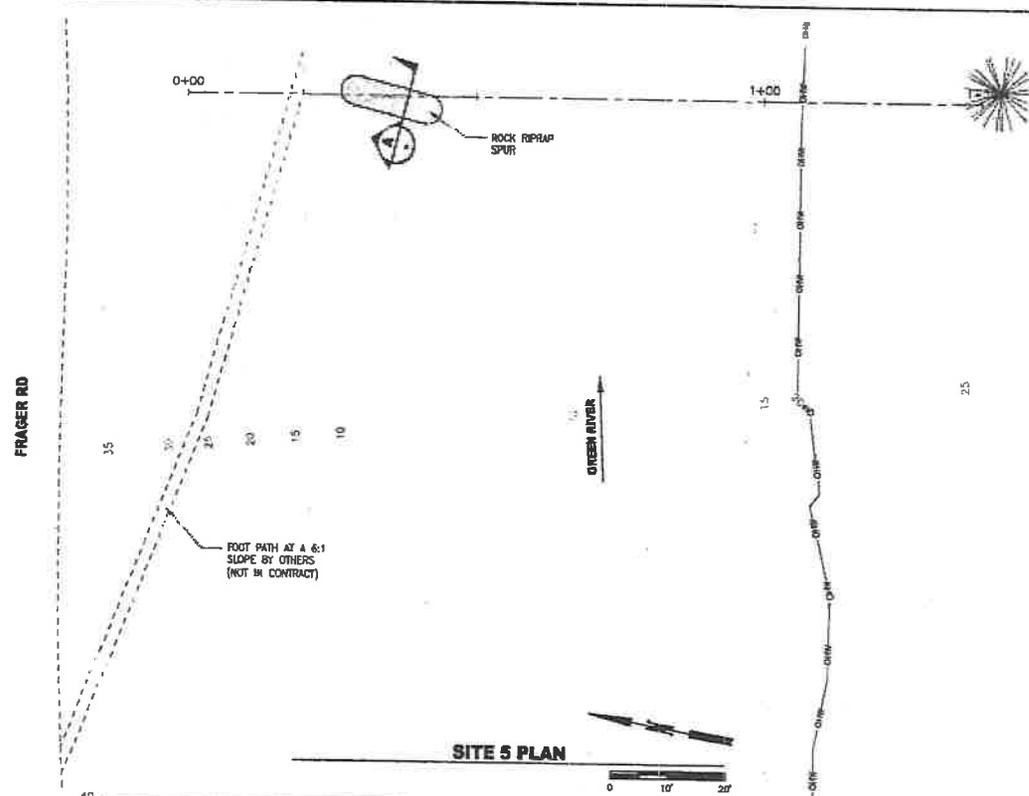
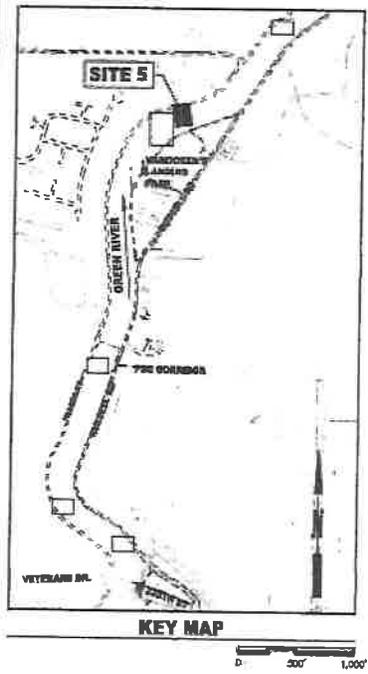


King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christa True, Director

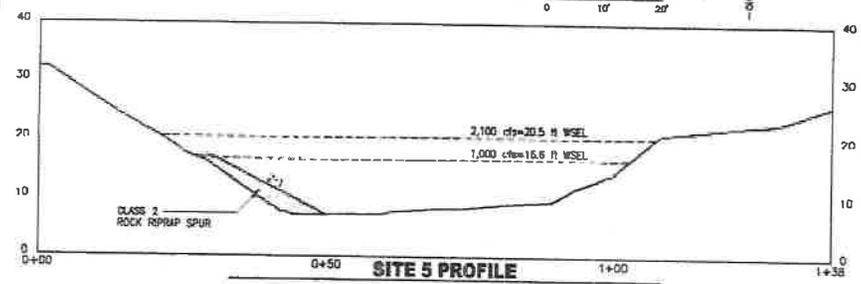
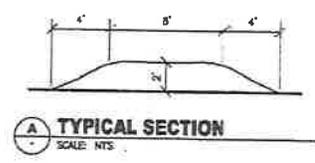
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2

SITE 4 EDDY FEATURE

SHEET
CSP-17



- NOTES:**
1. PURPOSE: A ROCK STRUCTURE THAT WILL DEFLECT FLOW AND FORM AN EDDY IMMEDIATELY DOWNSTREAM.
 2. SET TOP ELEVATION OF ROCK STRUCTURE BETWEEN ELEVATION 17 AND 19.
 3. PROTECT EXISTING TRAIL SURFACE.
 4. PLACE ROCK WITH CRANE DUE TO ACCESS CONSTRAINTS.



SURVEY JOB NO./DATE:					
CHECKED:					
DESIGNED:	K. KITAMURA	11/2019			
DESIGNED:	ERIK PETERS, P.E.	11/2019	NUM.	REVISION	BY DATE
CHECKED:	ERIK PETERS, P.E.	11/2019			
SUPERVISOR:	LORIN REHMET, P.E.	11/2019			
			RECORD CHANGES APPROVED	BY	DATE

PLUMBING:

PROJECT No. 1112056

CONTRACT No. C01415C20

11/26/19

King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chyler Tru, Director

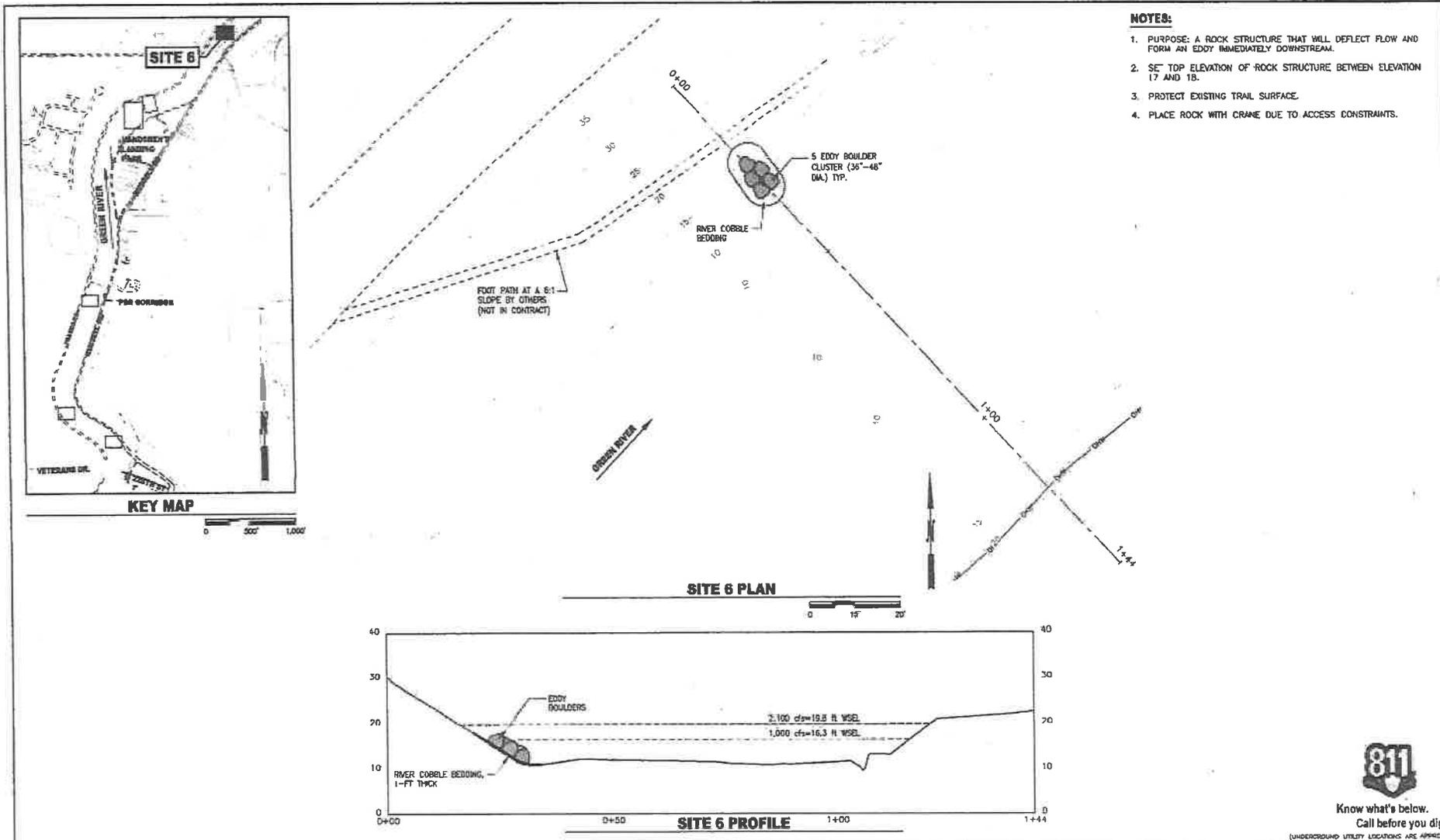
811
 Know what's below.
 Call before you dig.
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2**

SITE 5 EDDY FEATURE

SHEET
CSP-18

I:\1-RIVERS CAD SUPPORT\LowRusstdLevel_PHASE_2\2_LRR_EDDY.dwg, 11/26/2019 1:27:19 PM, AutoCAD PDF (General Documentation).pc3



- NOTES:**
1. PURPOSE: A ROCK STRUCTURE THAT WILL DEFLECT FLOW AND FORM AN EDDY IMMEDIATELY DOWNSTREAM.
 2. SE^m TDP ELEVATION OF ROCK STRUCTURE BETWEEN ELEVATION 17 AND 18.
 3. PROTECT EXISTING TRAIL SURFACE.
 4. PLACE ROCK WITH CRANE DUE TO ACCESS CONSTRAINTS.



Know what's below.
Call before you dig.
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./SCALE:					
CHECKED:					
DAD ENTERED:	K. KOTAJIMA	11/22/19			
DESIGNED:	ERIK PETERS, P.E.	11/22/19	REV.	REVISION	BY DATE
CHECKED:	ERIK PETERS, P.E.	11/22/19			
SUPERVISOR:	LORIN REINHILT, P.E.	11/22/19			
RECORD CHANGES APPROVED BY DATE:					

FUNDING:	
PROJECT No.	1112056
CONTRACT No.	CO1415C20



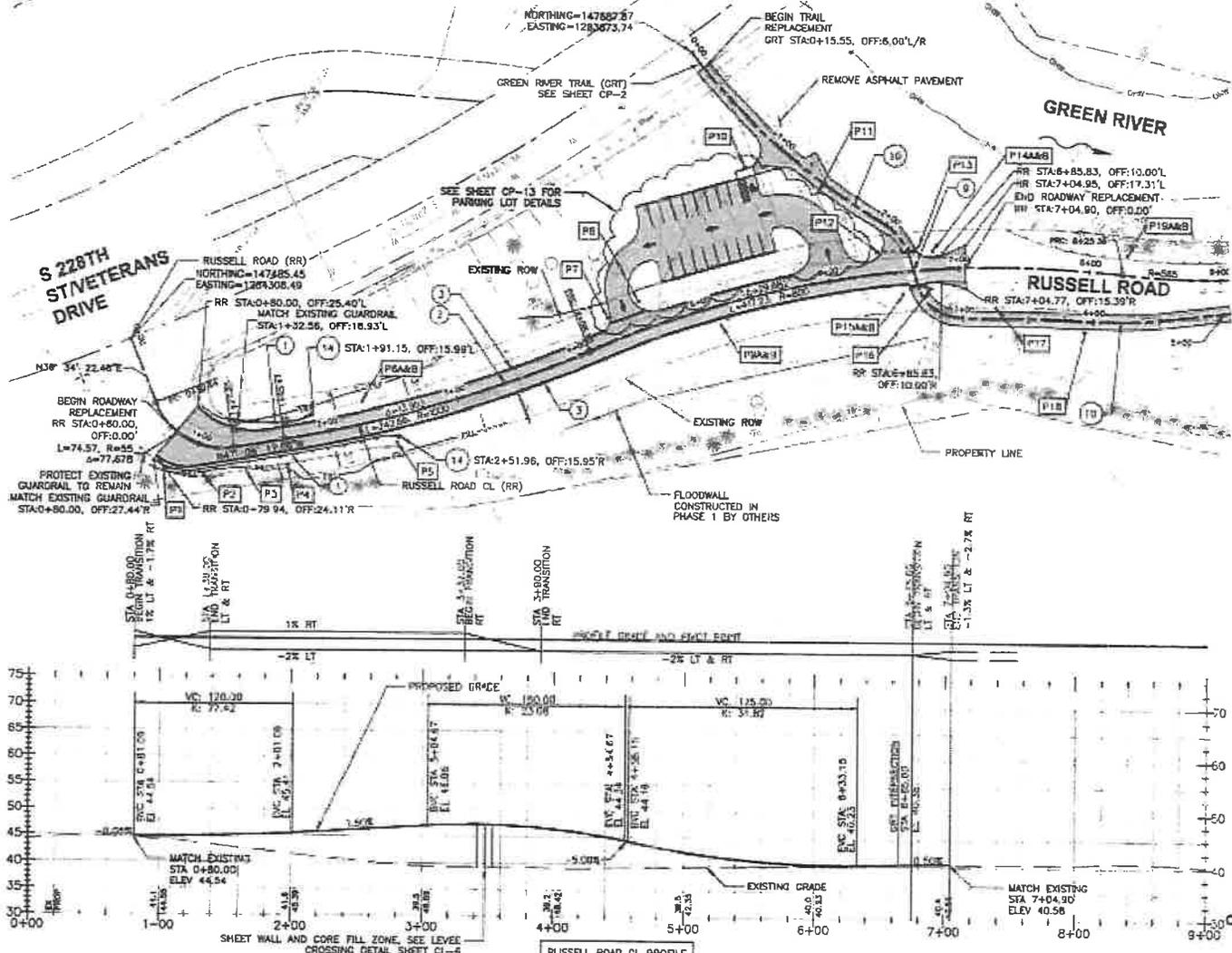
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Chrste Tru, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2

SITE 6 EDDY FEATURE

SHEET
CSP-19

C:\pwworking\asea2204\1749\KCLR_CP-1.dwg, KCLR_CP-1, 11/26/2019 10:23:28 AM, KWCDONALD

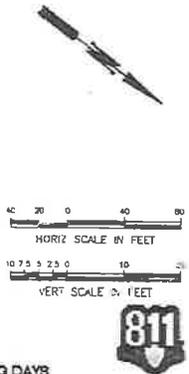


- NOTES:**
- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
 - UNLESS OTHERWISE NOTED, ALIGNMENT STATION AND OFFSETS CORRESPOND TO THE ALIGNMENT CALLED OUT IN THE SHEET TITELBLOCK
 - FOR MATERIAL DEPTHS, SEE STREET IMPROVEMENT TYPICAL SECTIONS
 - SEE TYPICAL SECTIONS ON SHEETS CP-15 AND CP-16 FOR SURFACING INFORMATION
 - SEE SHEET CP-23 FOR SIGN SCHEDULE
 - SEE DSO SHEETS FOR GRADING CONTOURS

LEGEND:

ASPHALT PAVEMENT	
CONCRETE SIDEWALK, 4" DEPTH	
GUARDRAIL	
SIGN	

- CONSTRUCTION NOTES:**
- GUARDRAIL TYPE 31 - 8 FT LONG POST, WSCOT STD PLAN C-20.10-04
 - DOUBLE YELLOW CENTERLINE, CITY OF KENT STD. PLAN 6-73
 - EDGE LINE, CITY OF KENT STD. PLAN 6-73
 - THERMOPLASTIC CROSSWALK MARKINGS, CITY OF KENT STD. PLAN 6-75
 - GREEN RIVER REGIONAL TRAIL (SHEET CP-2) (SEE TYPICAL SECTIONS ON SHEET CP-15)
 - NON-FLARED TERMINAL WSCOT STD. PLAN C-22.45-03 WITH BEAM GUARDRAIL END SECTION DESIGN G, WSCOT STD. PLAN C-7



CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
 Know what's below. Call before you dig.

SURVEY JOB NO./SOURCE:		RANKING:	
CHECKED:		PROJECT No.	1112056
CAD ENTERED:	A. FRYE 11/27/18	CONTRACT No.	C01415C20
DESIGNED:	K. WCDONALD 11/27/18	REVISION	BY DATE
CHECKED:	B. MANGE 11/27/18	RECORD CHANGES APPROVED	BY DATE
SUPERVISOR:	S. J. BROWN 11/27/18		

DATE	BY	DATE

King County
 Department of Natural Resources and Park
 Water and Floodplain Management Section
 Christa Trice, Director

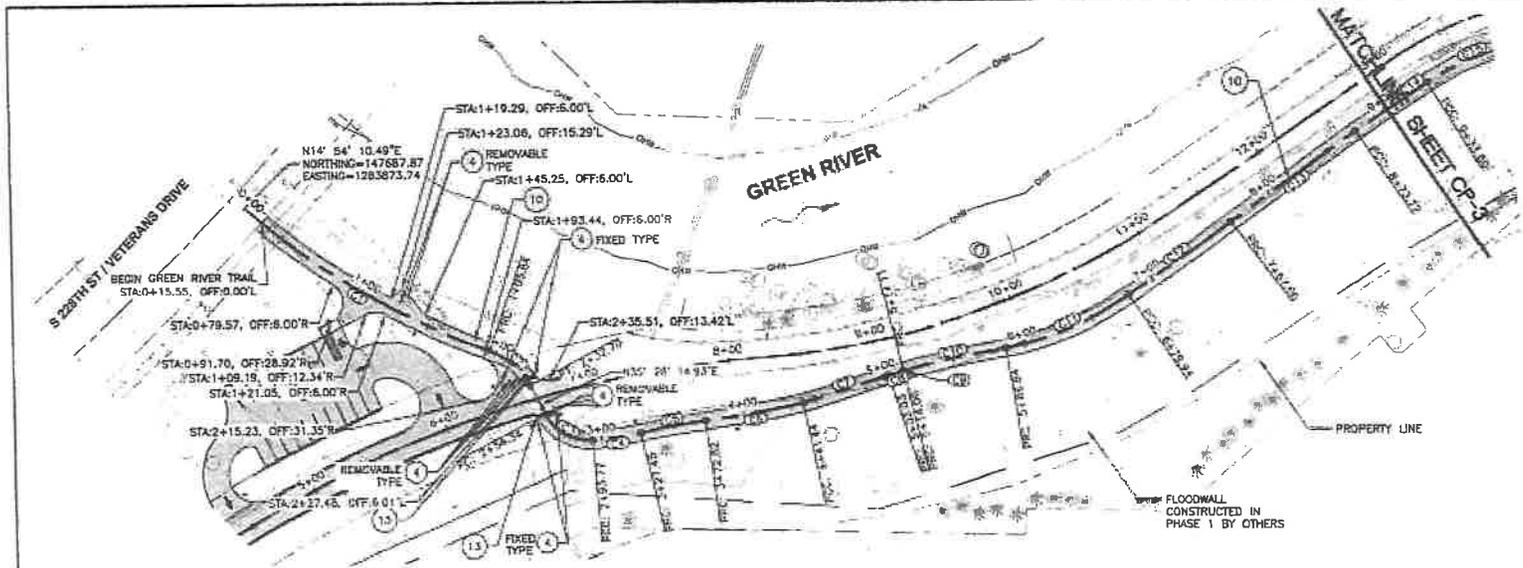
HDR
 HDR Engineering Inc.

King County
 Department of Natural Resources and Park
 Water and Floodplain Management Section
 Christa Trice, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
STREET IMPROVEMENTS
PLAN AND PROFILE
 RUSSELL ROAD STA 0+00 TO 8+00

SHEET
CP-1

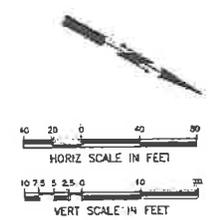
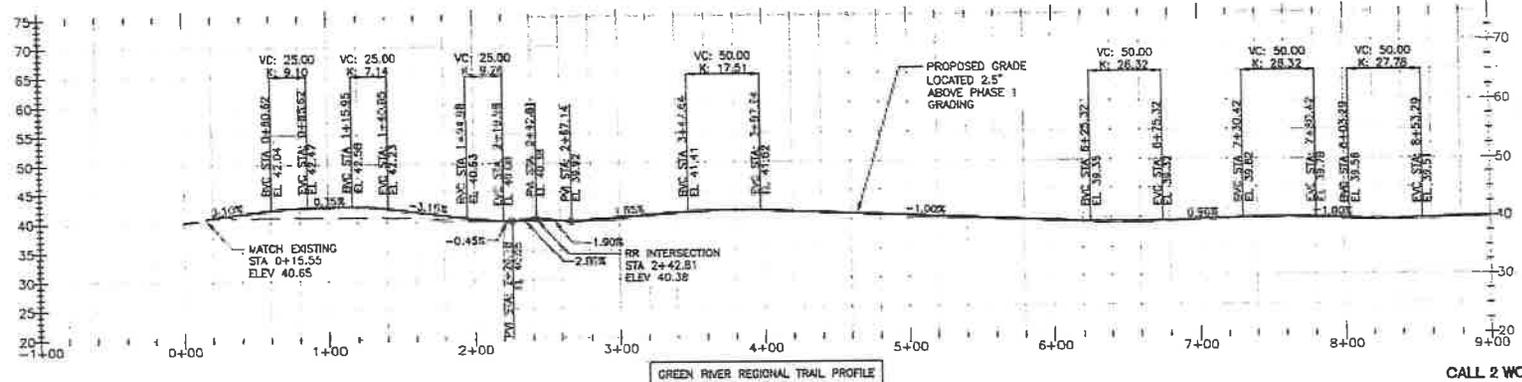
C:\pwworking\sead201748\KCLR_CP-24.8.10.11.dwg, CP-2, 1/25/2010 10:30:50 AM, KIMCDONALD



- NOTES:**
- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
 - UNLESS OTHERWISE NOTED, ALIGNMENT STATION AND OFFSETS CORRESPOND TO THE ALIGNMENT CALLED OUT IN THE SHEET TITLEBLOCK
 - FOR MATERIAL DEPTHS, SEE STREET IMPROVEMENT TYPICAL SECTIONS
 - SEE TYPICAL SECTIONS ON SHEETS CP-15 AND CP-16 FOR SURFACING INFORMATION
 - SEE SHEET CP-23 FOR SIGN SCHEDULE
 - SEE CSD SHEETS FOR GRADING CONTOURS

- LEGEND:**
- ASPHALT PAVEMENT
- CONSTRUCTION NOTES:**
- (4) BOLLARD (SEE SHEETS CP-7 AND CP-25)
 - (10) GREEN RIVER REGIONAL TRAIL (SEE TYPICAL SECTIONS ON SHEET CP-15)
 - (13) DETECTABLE WARNING SURFACE, WSDOT STD. PLAN F-45.10-02

TRAIL ALIGNMENT CURVE TABLE				
No.	R	A	L	T
C1	504.31	22.250	195.84	194.61
C2	49.23	42.892	36.86	36.00
C3	33.78	68.873	39.43	37.23
C4	231.27	8.344	33.68	33.65
C5	509.90	5.098	45.37	45.36
C6	908.94	4.326	68.62	68.61
C7	1437.68	2.454	61.58	61.58
C8	130.56	4.842	11.03	11.03
C9	927.19	0.003	0.06	0.06
C10	692.91	6.014	72.73	72.69
C11	224.31	25.760	93.10	92.43
C12	3506.41	1.433	87.71	87.71
C13	2892.73	2.109	106.11	106.11



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
 Know what's below. Call before you dig.

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
TRAIL IMPROVEMENTS
PLAN AND PROFILE
 GREEN RIVER TRAIL STA 0+00 TO 9+00

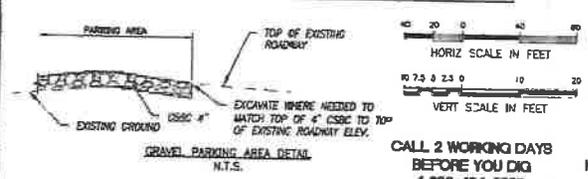
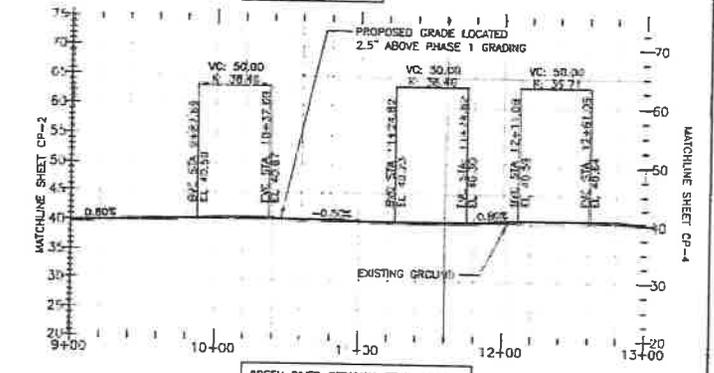
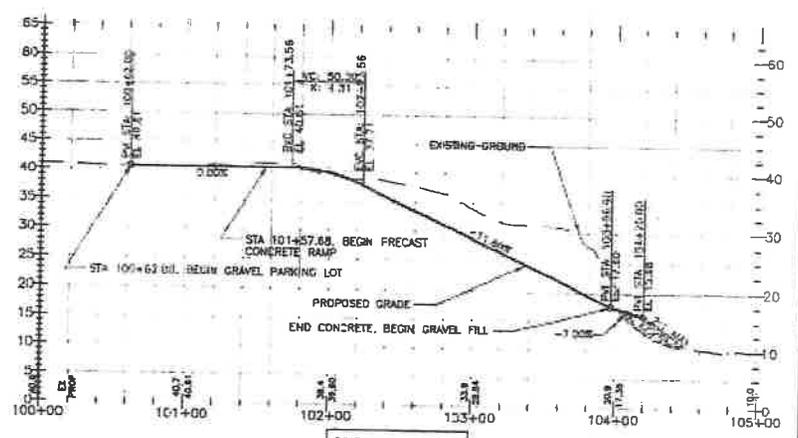
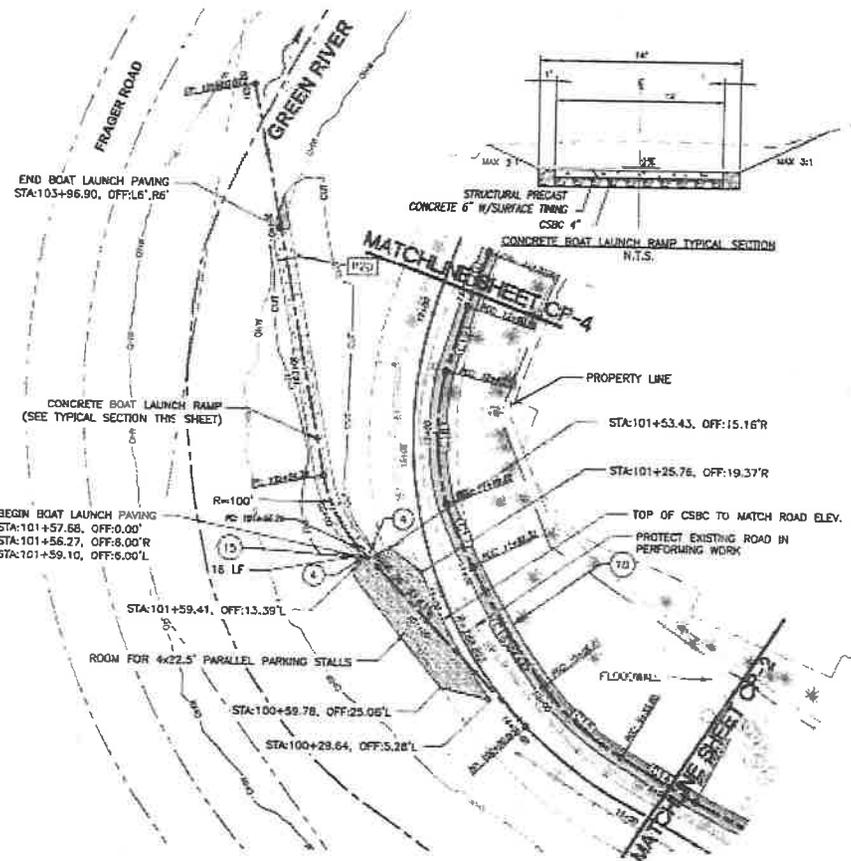
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CHECKED:	J. PYTE 11/27/10	PROJECT No.	1112156
DESIGNED:	K. McDONALD 11/27/10	CONTRACT No.	CO1415020
CHECKED:	B. WAGLE 11/27/10		
SUPERVISOR:	S. JOHNSON 11/27/10		
M.M. REVISIONS APPROVED BY DATE			



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chrystal True, Director

SHEET CP-2

C:\pwworking\used\2017\49\KCLR_CP-3.dwg, KCLR_CP-13, 11/26/2019 10:58:34 AM, KMCDONALD



NOTES:

- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
- GRADE GRAVEL PARKING AREA TO DRAIN TOWARDS RIVER
- 1% MAX SLOPE ON BOAT LAUNCH
- SEE TYPICAL SECTIONS ON SHEETS CP-15 AND CP-16 FOR TRAIL SURFACING INFORMATION
- GRAVEL PARKING AREA TO BE 4 IN. LAYER OF CSBC ON EXISTING SURFACE (SEE GRAVEL PARKING AREA DETAIL THIS SHEET)
- SEE SHEET CP-23 FOR SIGN SCHEDULE
- SEE CSD SHEETS FOR GRADING CONTOURS

LEGEND:

- CRUSHED SURFACING BASE COURSE
- STRUCTURAL PRECAST CONCRETE
- ASPHALT PAVEMENT
- SIGN

CONSTRUCTION NOTES:

- 4 BOLLARD (SEE SHEETS CP-7 AND CP-25)
- 10 GREEN RIVER TRAIL (SEE TYPICAL SECTIONS ON SHEET CP-15)
- 15 6" SDR 21 PVC SLEEVE, SEE DETAIL 2 ON SHEET LP-59

TRAIL ALIGNMENT CURVE TABLE

No.	R	A	L	T
C14	1129.45	3.045	60.03	60.03
C15	200.38	20.847	72.91	72.51
C16	504.65	10.855	95.61	95.46
C17	345.65	7.873	47.50	47.46
C18	191.25	27.918	93.19	92.27
C19	3878.56	0.702	47.55	47.55

SURVEY JOB NO./SCALE:		FIGURE:	
CHECKED:	J. FIRE 11/27/19	REVISION:	
CAD ENTERED:	K. MCDONALD 11/27/19	BY:	DATE:
CHECKED:	E. WARD 11/27/19		
SUPERVISOR:	S. JOHNSON 11/27/19		
RECORD CHANGES APPROVED:		BY:	DATE:

PROJECT No.	1112006
CONTRACT No.	C01415C20



King County
Department of Natural Resources and Park, Water and Land Resources Division
River and Floodplain Management Section
Christie Thue, Director

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

811
Know what's below. Call before you dig.

LOWER RUSSELL LEVEE SETBACK PROJECT PHASE 2 BOAT LAUNCH TRAIL IMPROVEMENTS PLAN & PROFILE
GREEN RIVER TRAIL STA 9+00 TO 13+00 BOAT LAUNCH

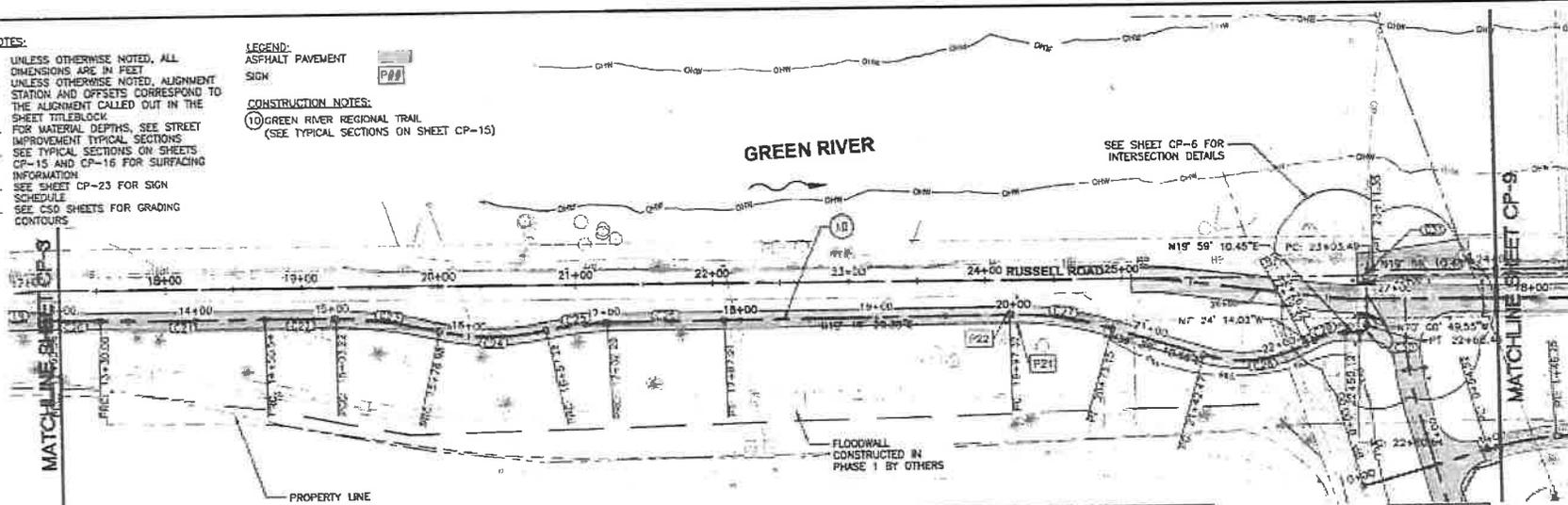
SHEET CP-3

NOTES:

- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
- UNLESS OTHERWISE NOTED, ALIGNMENT STATION AND OFFSETS CORRESPOND TO THE ALIGNMENT CALLED OUT IN THE SHEET TITLEBLOCK
- FOR MATERIAL DEPTHS, SEE STREET IMPROVEMENT TYPICAL SECTIONS
- SEE TYPICAL SECTIONS ON SHEETS CP-15 AND CP-16 FOR SURFACING INFORMATION
- SEE SHEET CP-23 FOR SIGN SCHEDULE
- SEE CSO SHEETS FOR GRADING CONTOURS

LEGEND:
 ASPHALT PAVEMENT
 SIGN

CONSTRUCTION NOTES:
 (10) GREEN RIVER REGIONAL TRAIL
 (SEE TYPICAL SECTIONS ON SHEET CP-15)

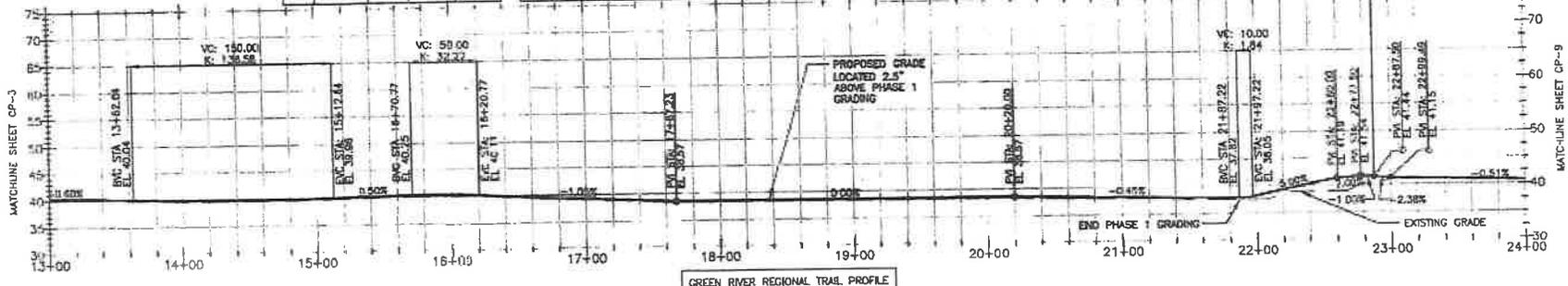


TRAIL ALIGNMENT CURVE TABLE				
No.	R	Δ	L	T
C20	4121.84	0.548	39.44	39.44
C21	3855.31	1.791	120.54	120.54
C22	5338.57	0.565	52.68	52.67

TRAIL ALIGNMENT CURVE TABLE				
No.	R	Δ	L	T
C23	384.25	11.918	75.77	75.63
C24	187.43	23.935	78.30	77.73
C25	299.34	8.614	45.01	44.98

TRAIL ALIGNMENT CURVE TABLE				
No.	R	Δ	L	T
C26	7547.18	0.650	85.62	85.82
C27	250.00	17.378	75.63	75.54
C28	100.00	44.057	76.89	75.01

TRAIL ALIGNMENT CURVE TABLE				
No.	R	Δ	L	T
C29	50.00	27.390	23.90	23.68
C30	5.00	90.000	7.85	7.07
C31	5.00	90.000	7.85	7.07



GREEN RIVER REGIONAL TRAIL PROFILE



CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
 Know what's below. Call before you dig.

SURVEY JOB NO./SCALE:		FUNDING:	
DESIGNED BY:	DATE:	PROJECT No.:	112056
CAD ENTERED BY:	DATE:	CONTRACT No.:	C01415C20
CHECKED BY:	DATE:		
SUPERVISOR:	DATE:		
RECORD CHANGES APPROVED BY:	DATE:		



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Truss, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
TRAIL IMPROVEMENTS
PLAN & PROFILE
 GREEN RIVER TRAIL STA 13+00 TO 24+00

SHEET CP-4

C:\working\used\2017\816\KLR\CP-2,4,8,10-1.dwg, CP-4, 1/26/2018, 10:33:31 AM, KINGDONALD

NOTES:

- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
- UNLESS OTHERWISE NOTED, ALIGNMENT STATION AND OFFSETS CORRESPOND TO THE ALIGNMENT CALLED OUT IN THE SHEET TITLE BLOCK.
- FOR MATERIAL DEPTHS, SEE STREET IMPROVEMENT TYPICAL SECTIONS
- SEE TYPICAL SECTIONS ON SHEETS CP-15 AND CP-16 FOR SURFACING INFORMATION
- SEE SHEET CP-23 FOR SIGN SCHEDULE
- SEE CSD SHEETS FOR GRADING CONTOURS

CONSTRUCTION NOTES:

- BOLLARD (SEE SHEETS CP-7 AND CP-25)
- TRAFFIC CALMING CUSHION PER CITY OF KENT STD DETAIL 6-29
- 5" SDR 21 PVC SLEEVE
SEE DETAIL 2 ON SHEET LP-59

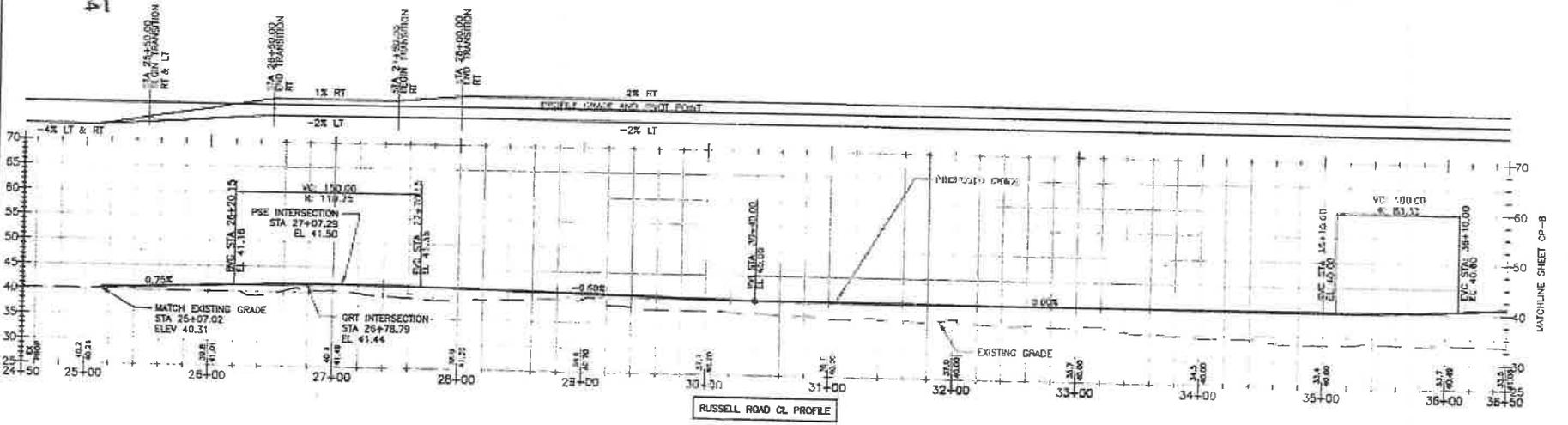
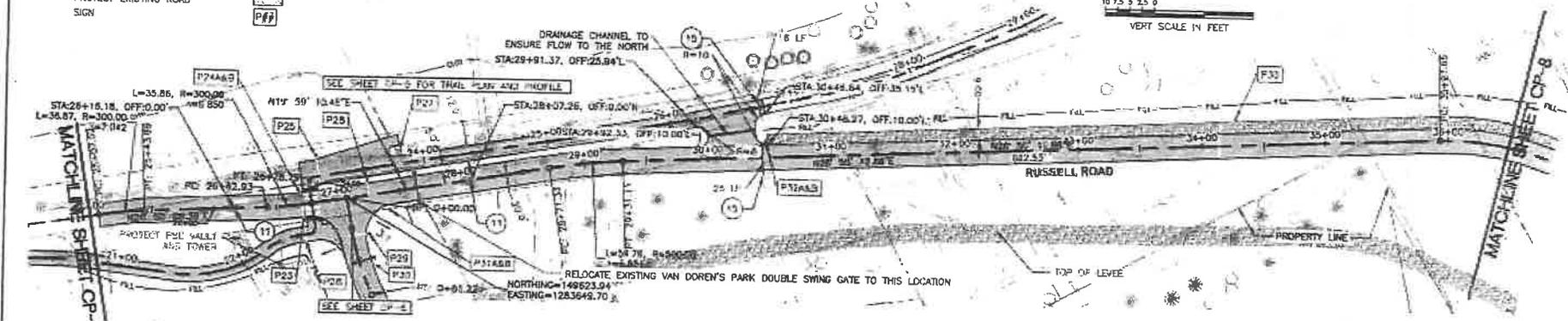
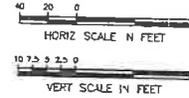
LEGEND:

- ASPHALT PAVEMENT
- CRUSHED SURFACING BASE COURSE
- PROTECT EXISTING ROAD
- SIGN

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



Know what's below.
Call before you dig.



RUSSELL ROAD CL. PROFILE

SURVEY JOB NO./SOURCE:	
CHECKED:	J. FRYE 11/27/19
CAD DWTOR:	K. McDONALD 11/27/19
DESIGNED:	B. WAGEC 11/27/19
CHECKED:	S. JOHNSON 11/27/19
SUPERVISOR:	

DATE	BY	DATE

PROJECT No.	1112056
CONTRACT No.	001415C20



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christa Trice, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
STREET IMPROVEMENTS
PLAN AND PROFILE
RUSSELL ROAD STA 25+00 TO 36+50

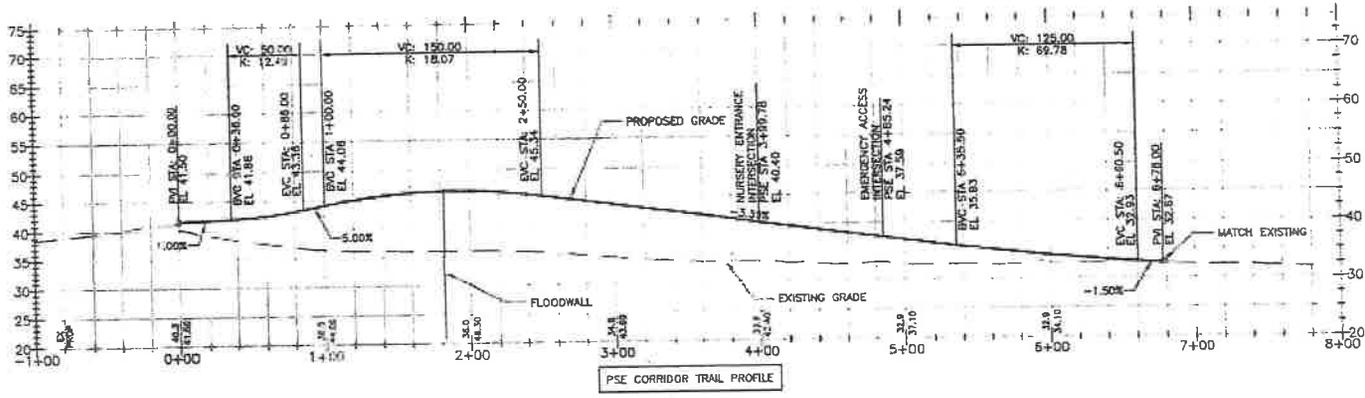
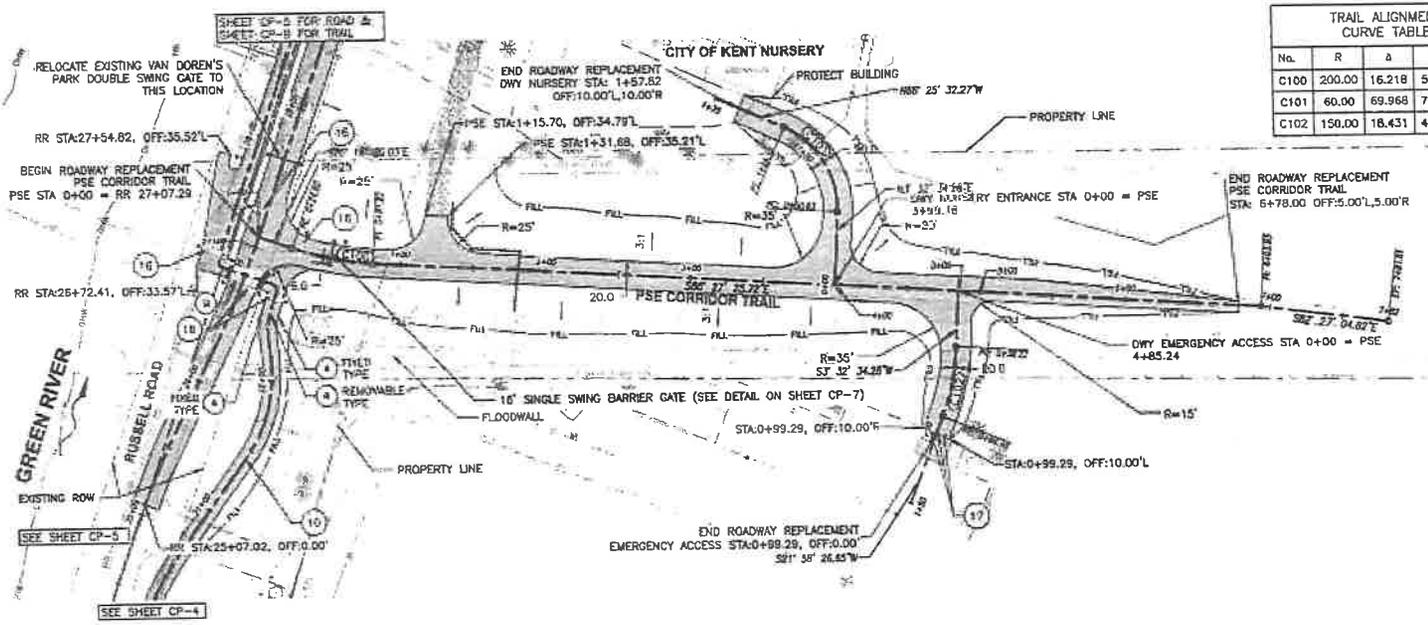
SHEET CP-5

C:\pwworking\ssand2041749\KCLR_CP-5.dwg, C-114, 11/28/2019 10:54:17 AM, KMC DONALD

TRAIL ALIGNMENT CURVE TABLE				
No.	R	Δ	L	T
C100	200.00	16.218	56.61	56.42
C101	60.00	69.968	73.27	68.80
C102	150.00	16.431	48.25	48.05

- NOTES:**
- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
 - UNLESS OTHERWISE NOTED, ALIGNMENT STATION AND OFFSETS CORRESPOND TO THE ALIGNMENT CALLED OUT IN THE SHEET TITLEBLOCK.
 - FOR MATERIAL DEPTHS, SEE STREET IMPROVEMENT TYPICAL SECTIONS
 - FOR EMERGENCY ACCESS AND NURSERY ENTRANCE PROFILES SEE SHEET CP-8
 - SEE TYPICAL SECTIONS ON SHEETS CP-15 AND CP-16 FOR SURFACING INFORMATION
 - LOCATION OF CROSSWALK AND STOP BARS TO BE APPROVED BY CITY ENGINEER BEFORE INSTALLATION.
 - SEE CSD SHEETS FOR GRADING CONTOURS

- LEGEND:**
- ASPHALT PAVEMENT
- CONSTRUCTION NOTES:**
- BOLLARD (SEE SHEETS CP-7 AND CP-25)
 - THERMOPLASTIC CROSSWALK MARKINGS, CITY OF KENT STD. PLAN 6-75
 - GREEN RIVER REGIONAL TRAIL (SEE TYPICAL SECTIONS ON SHEET CP-15)
 - STOP BAR, CITY OF KENT STD. PLAN 6-76
 - PROTECT COLLAPSIBLE BOLLARD IN PLACE



811

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

Know what's below.
Call before you dig.

HORIZ SCALE IN FEET
VERT SCALE IN FEET

SURVEY JOB NO./SOURCE:		FUNDING:	
CHECKED:		PROJECT No.	1112056
DATE ENTERED:	J. RYE 11/22/11	CONTRACT No.	C01415C20
DESIGNED:	K. MCDONALD 11/22/11		
CHECKED:	R. WATZ 11/22/11		
SUPERVISOR:	S. JOHNSON 11/22/11		
TITLE: RECORDS CHANGES APPROVED BY DATE			



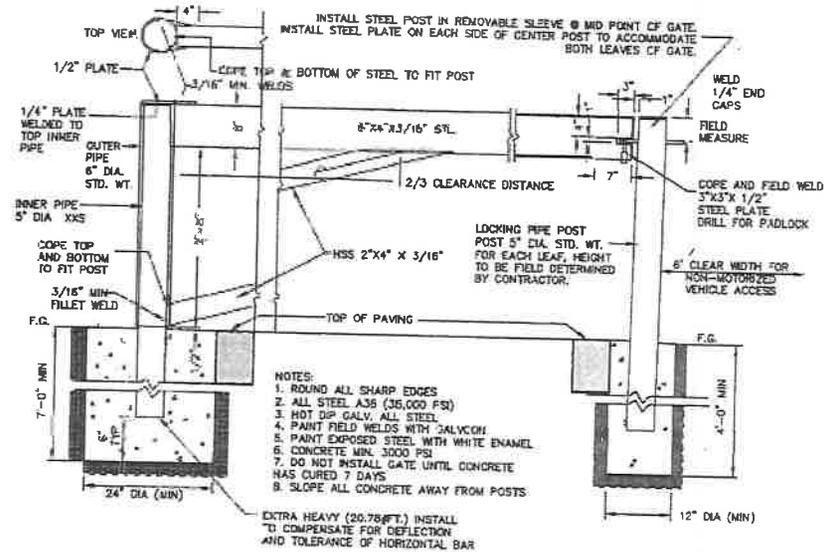
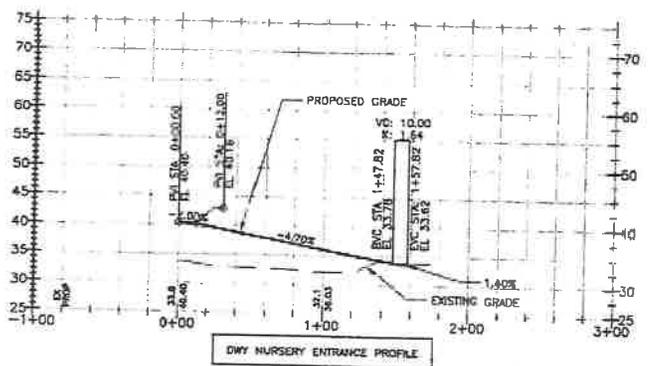
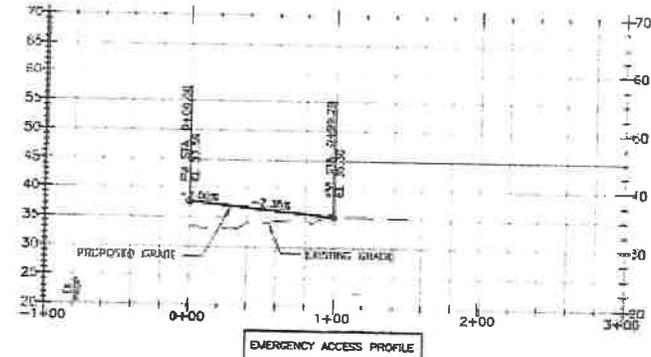
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Chadler Trust, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
STREET IMPROVEMENTS
PLAN AND PROFILE
PSE CORRIDOR TRAIL STA 0+00 TO 8+00

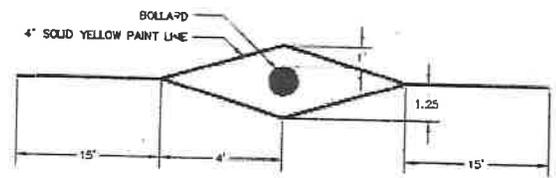
SHEET CP-6

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NOTES:
1. FOR ROADWAY ALIGNMENTS
SEE SHEET CP-6



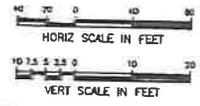
SINGLE SWING GATE
SCALE: NTS



BOLLARD APPROACH MARKINGS
SCALE: NTS

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

811
Know what's below,
Call before you dig.



SURVEY JOB NO./SUBJOB:		FUNDING:	
CHECKED:			
CAD ENTERED:	J. FINE 11/27/19	PROJECT No.	1112096
DESIGNED:	E. McDONALD 11/27/19	CONTRACT No.	CO1415C20
CHECKED:	J. BRICE 11/27/19		
SUPERVISOR:	E. JONSON 11/27/19		
RECORD CHANGES APPROVED BY DATE			



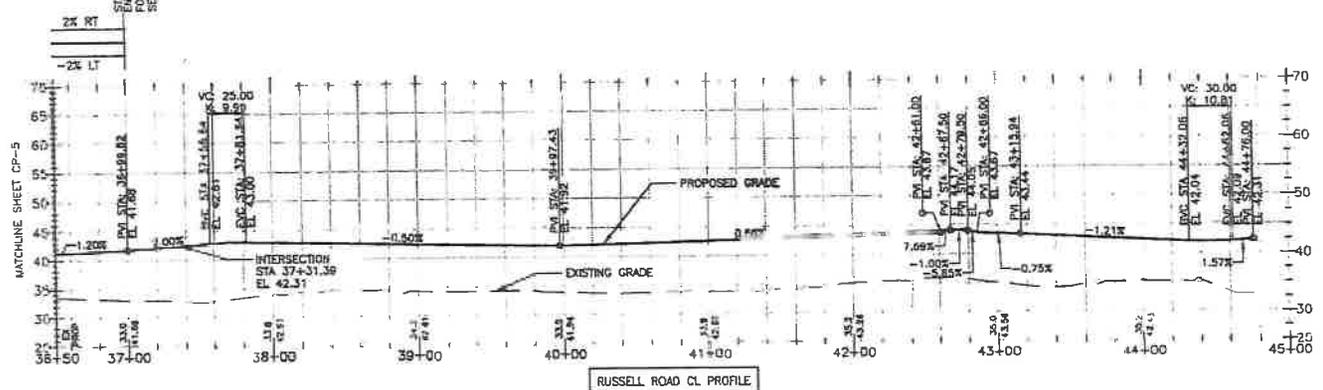
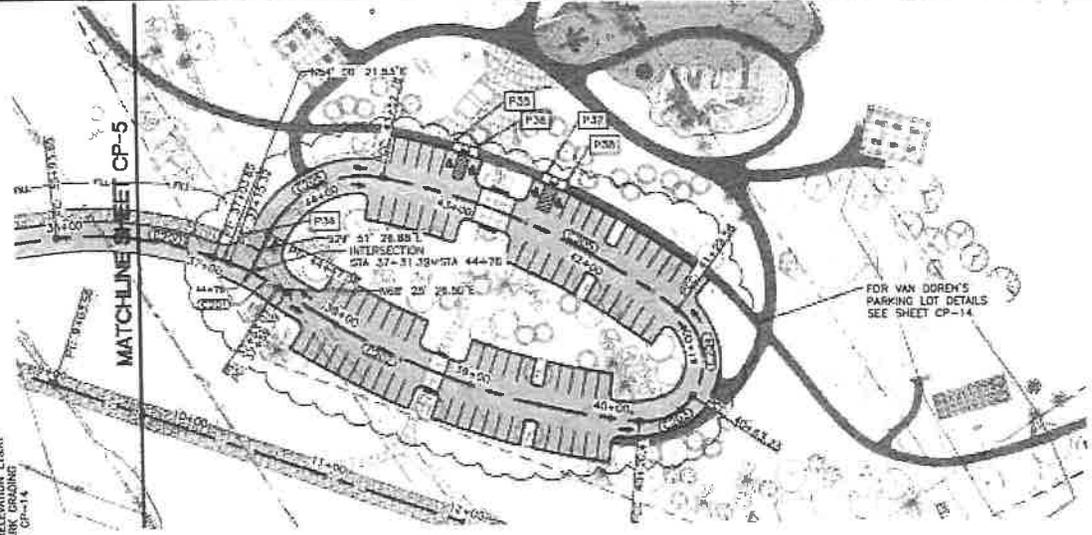
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
STREET IMPROVEMENTS
EMERGENCY ACCESS &
NURSERY ACCESS PROFILES**
STA 1+00 TO 3+00

SHEET
CP-7

C:\working\user\2041749\KCLR_CP-7.dwg, KCLR_CP-7, 11/28/2019 11:11:13 AM, KAMCDONALD

C:\pwworking\ssd\2017\49\KCLR_CP-2,4,8,10,11.dwg, CP-8, 1/28/2019 10:35:49 AM, KMC DONALD



- NOTES:**
- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
 - UNLESS OTHERWISE NOTED, ALIGNMENT STATION AND OFFSETS CORRESPOND TO THE ALIGNMENT CALLED OUT IN THE SHEET TITLEBLOCK.
 - FOR MATERIAL DEPTHS, SEE STREET IMPROVEMENT TYPICAL SECTIONS
 - SEE TYPICAL SECTIONS ON SHEETS CP-15 AND CP-16 FOR SURFACING INFORMATION
 - SEE SHEET CP-14 FOR VAN DOREN'S PARKING LOT DETAIL
 - SEE CSD SHEETS FOR GRADING CONTOURS

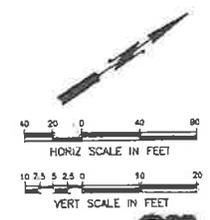
LEGEND:

ASPHALT PAVEMENT

CRUSHED SURFACING BASE COURSE

SIGN

TRAIL ALIGNMENT CURVE TABLE				
No.	R	Δ	L	T
C200	239.89	26.320	110.20	109.24
C201	150.00	14.418	37.75	37.65
C202	515.19	29.029	261.02	258.24
C203	40.00	61.327	42.81	40.80
C204	43.48	87.434	66.35	60.10
C205	510.00	25.076	223.20	221.43
C206	71.62	75.417	94.28	87.62



CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
 Know what's below. Call before you dig.

DATE	BY	REVISIONS
11/27/18	J. FINE	11/27/18
11/27/18	K. WOODWARD	11/27/18
11/27/18	B. WAGLE	11/27/18
11/27/18	S. JOHNSON	11/27/18

PROJECT No. 1112096
 CONTRACT No. C01415C20

DATE: _____ BY: _____



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christa Truss, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
**STREET IMPROVEMENTS
 PLAN & PROFILE**
 RUSSELL ROAD STA 35+50 TO 45+00
 AND VAN DOREN'S PARKING LOT

SHEET CP-8

NOTES:

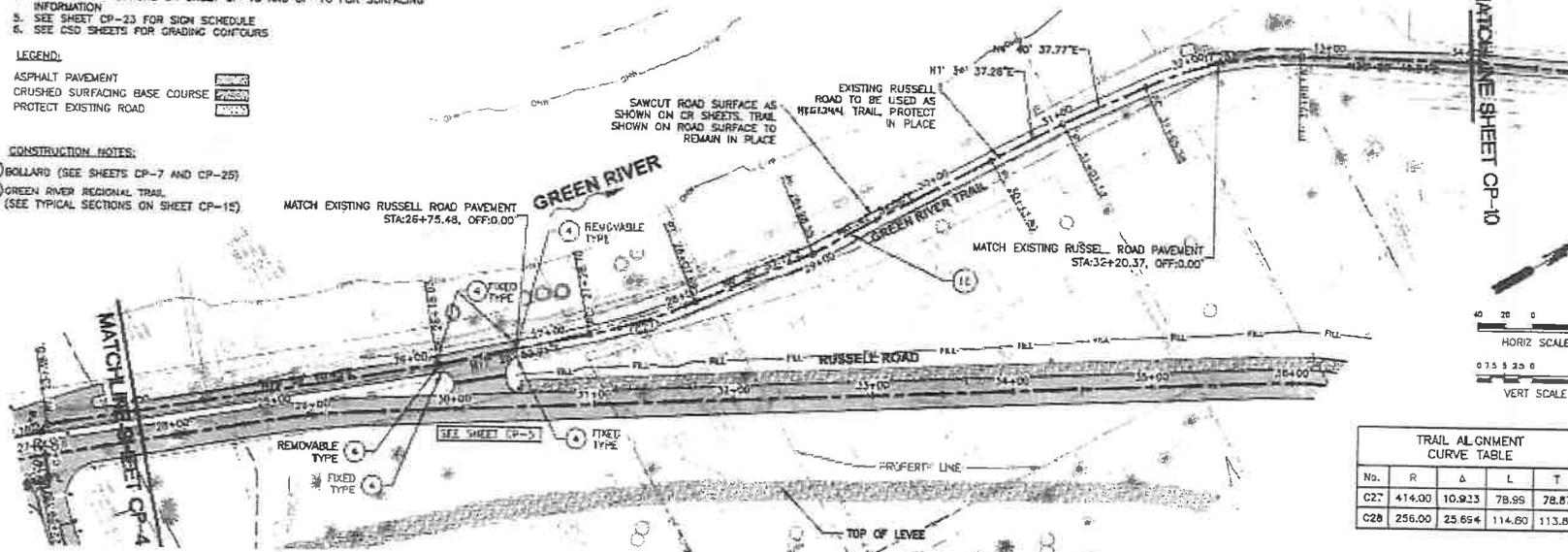
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
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3. FOR MATERIAL DEPTHS, SEE STREET IMPROVEMENT TYPICAL SECTIONS
4. SEE TYPICAL SECTIONS ON SHEET CP-15 AND CP-16 FOR SURFACING INFORMATION
5. SEE SHEET CP-23 FOR SIGN SCHEDULE
6. SEE CSD SHEETS FOR GRADING CONTOURS

LEGEND:

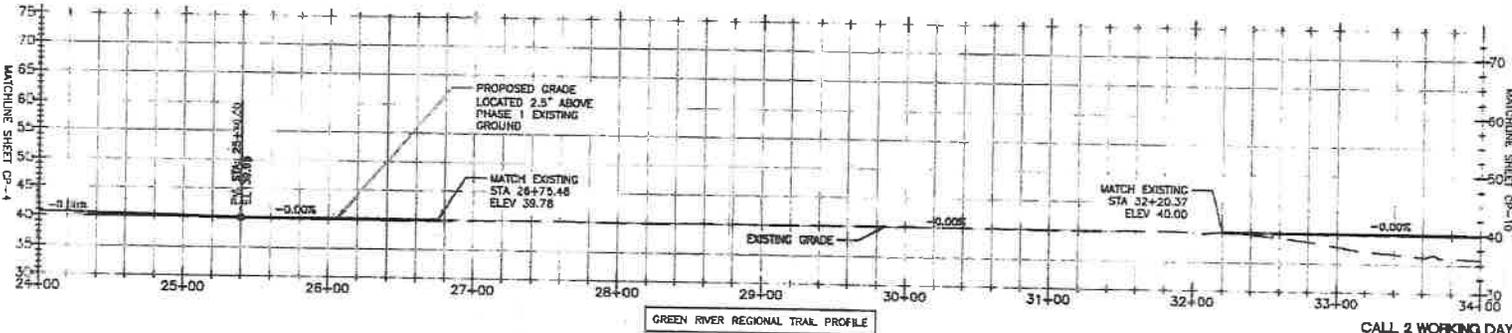
- ASPHALT PAVEMENT
- CRUSHED SURFACING BASE COURSE
- PROTECT EXISTING ROAD

CONSTRUCTION NOTES:

- 8 BOLLARD (SEE SHEETS CP-7 AND CP-25)
- 10 GREEN RIVER REGIONAL TRAIL (SEE TYPICAL SECTIONS ON SHEET CP-15)



No.	R	Δ	L	T
C2*	414.00	10.923	78.89	78.87
C2B	256.00	25.854	114.60	113.84



GREEN RIVER REGIONAL TRAIL PROFILE

CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

Know what's below.
 Call before you dig.



SURVEY JOB NO./SOURCE:		REVISION		DATE	
CHECKED:		BY		DATE	
DESIGNED:	J. FRYE 11/27/19	BY		DATE	
CHECKED:	K. MCCOONALD 11/27/19	BY		DATE	
CHECKED:	B. WAGNER 11/27/19	BY		DATE	
SUPERVISOR:	E. JOHNSON 11/27/19	BY		DATE	
RECORD CHANGES APPROVED		BY		DATE	

FORM:

PROJECT No. 1112056

CONTRACT No. 001415C20

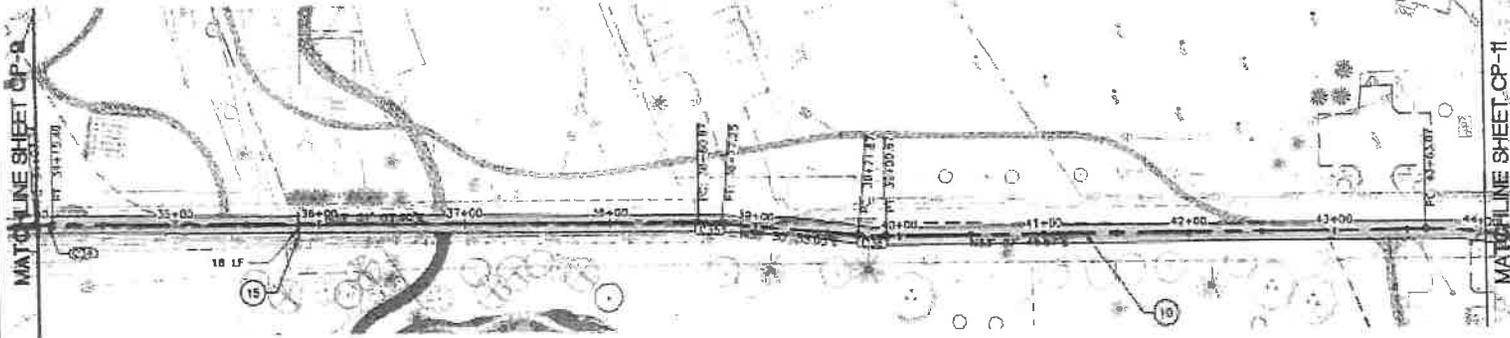


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Sector
 Outside Trust Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
TRAIL IMPROVEMENTS
PLAN AND PROFILE
 GREEN RIVER TRAIL STA 24+00 TO 34+00

SHEET CP-9

C:\pwworking\seaf204-1749\KCLR_CP-2-4.6.10.11.dwg, CP-10, 1/26/2016 10:37:20 AM, KACDONALD

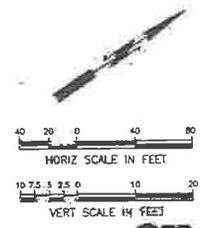
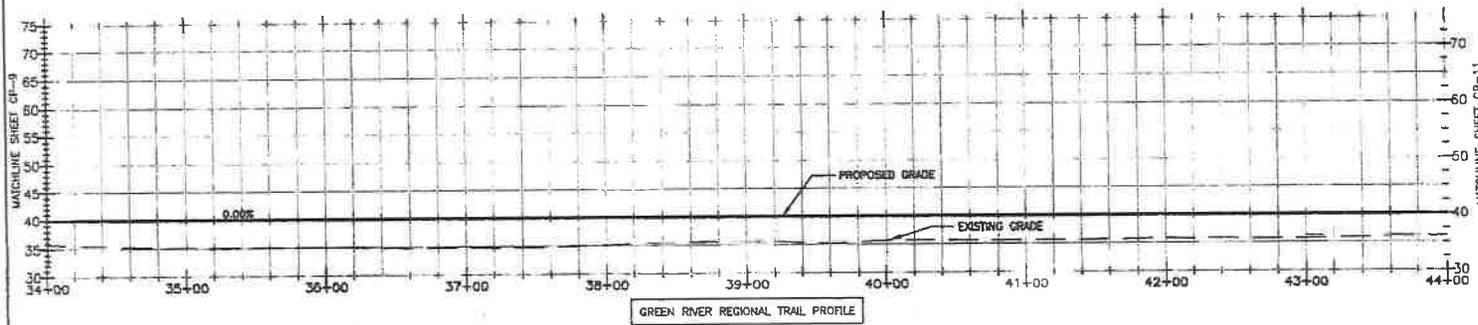


- NOTES:**
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
 2. UNLESS OTHERWISE NOTED, ALIGNMENT STATION AND OFFSETS CORRESPOND TO THE ALIGNMENT CALLED OUT IN THE SHEET TITLEBLOCK.
 3. FOR MATERIAL DEPTHS, SEE STREET IMPROVEMENT TYPICAL SECTIONS
 4. SEE TYPICAL SECTIONS ON SHEETS CP-15 AND CP-16 FOR SURFACING INFORMATION
 5. SEE SHEET CP-23 FOR SIGN SCHEDULE
 6. SEE CSD SHEETS FOR GRADING CONTOURS

LEGEND:
 ASPHALT PAVEMENT

- CONSTRUCTION NOTES:**
- 15 GREEN RIVER REGIONAL TRAIL (SEE TYPICAL SECTIONS ON SHEET CP-15)
 - 16 8" SDR 21 PVC SLEEVE, SIM DTL 2/LP-59

TRAIL ALIGNMENT CURVE TABLE			
Nd.	R	Δ	T
C34	200.00	3.481	12.15
C35	200.00	4.663	16.28
C36	200.00	5.385	18.80



DATE	BY	REVISION
11/27/11	J. PRYK	
11/27/11	R. MCCONNELL	
11/27/11	B. MAREZ	
11/27/11	S. JOHNSON	

REVISIONS

PROJECT No. **1112056**

CONTRACT No. **CO1415C20**



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Cristie Trun, Director

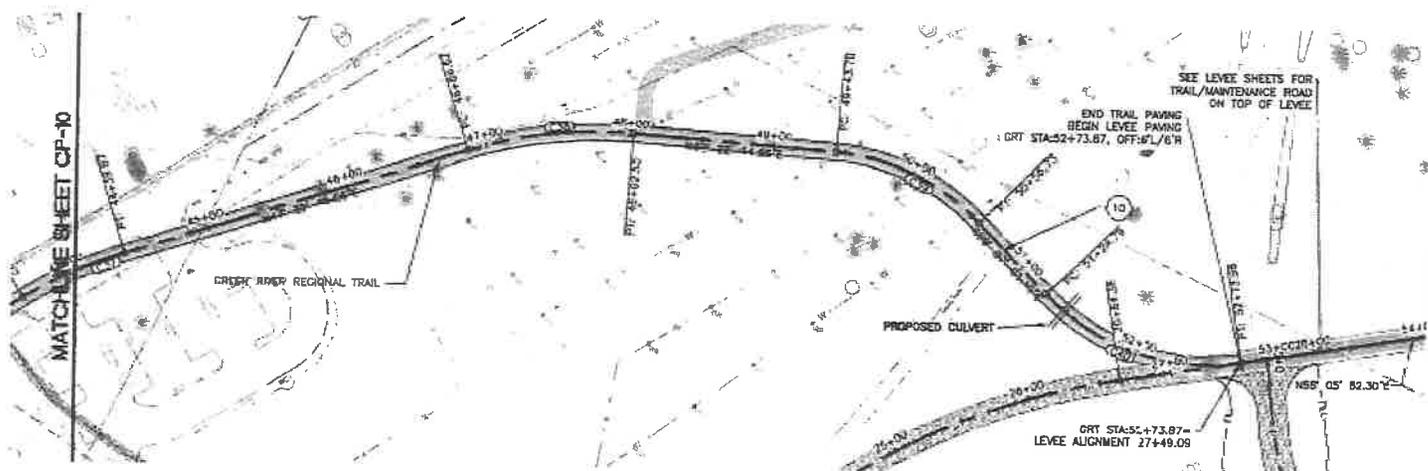
LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
TRAIL IMPROVEMENTS
PLAN & PROFILE
 GREEN RIVER TRAIL STA 34+00 TO 44+00

SHEET
CP-10

CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS ARE APPLICABLE)
 Know what's below. Call before you dig.



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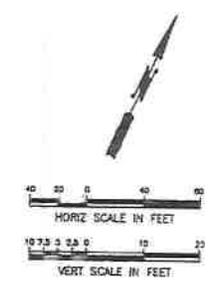
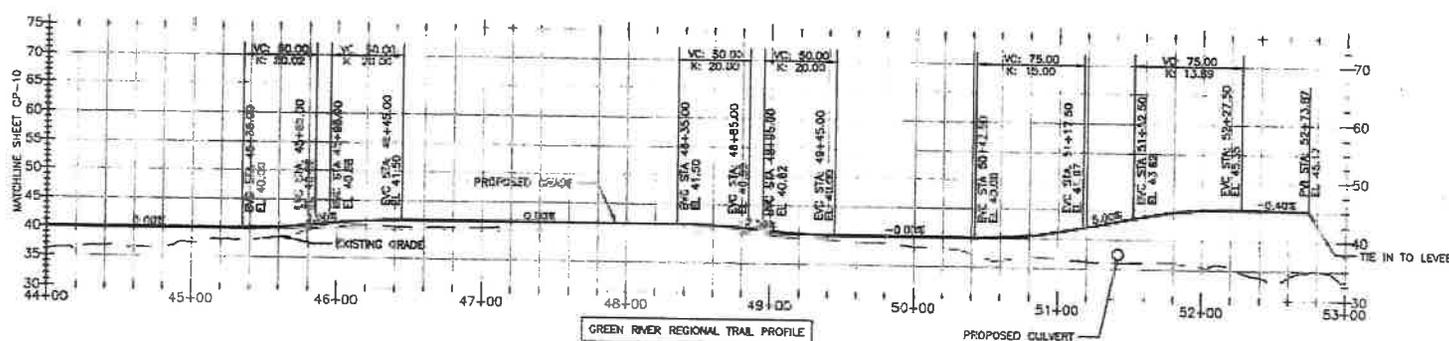


- NOTES:**
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 - FOR MATERIAL DEPTHS, SEE STREET IMPROVEMENT TYPICAL SECTIONS
 - SEE TYPICAL SECTIONS ON SHEETS CP-15 AND CP-16 FOR SURFACING INFORMATION
 - PROFILES FOR ROADS AND TRAILS SHOW THE ELEVATION AT THE TOP OF THE HMA LAYER, THE PROFILE SHOWN ON THE LEVEE PLAN AND PROFILE SHEETS DOES NOT (CL SERIES) PROFILE THE IN POINTS ON THIS SHEET WILL BE HIGHER THAN ON THE LEVEE PROFILE SHEETS TO ACCOUNT FOR THIS HMA LAYER.
 - SEE CSO SHEETS FOR GRADING CONTOURS

LEGEND:
 ASPHALT PAVEMENT

CONSTRUCTION NOTES:
 10 GREEN RIVER REGIONAL TRAIL (SEE TYPICAL SECTIONS ON SHEET CP-15)

TRAIL ALIGNMENT CURVE TABLE				
No.	R	Δ	L	T
C37	303.00	14.523	76.80	76.6
C38	308.00	21.708	115.94	115.3
C39	156.00	41.512	113.03	110.1
C40	156.00	54.785	149.16	143.3



SURVEY JOB NO./REVISION	DATE	BY	DATE
CHECKED			
CAD ENTERED	11/27/10		
DESIGNED	11/27/10		
CHECKED	11/27/10		
SUPERVISOR	11/27/10		

PROJECT No.	CONTRACT No.
1152058	CO1415C20



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Truss, Director

CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

Know what's below.
 Call before you dig.

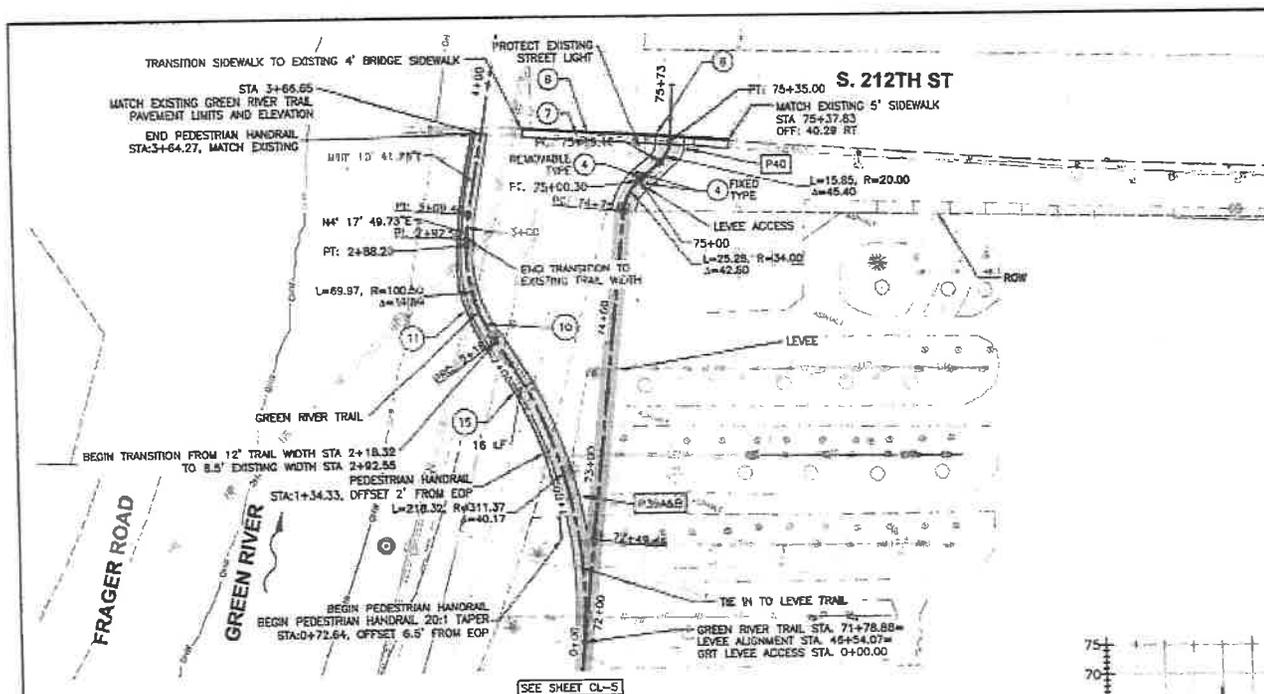
811

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 TRAIL IMPROVEMENTS
 PLAN & PROFILE**

GREEN RIVER TRAIL 44+00 TO 53+00

SHEET
 CP-11

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NOTES:

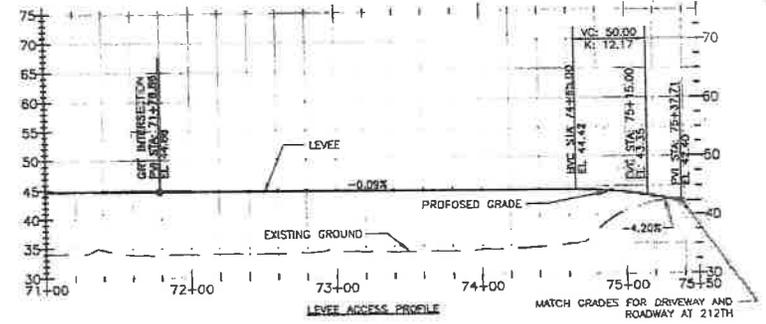
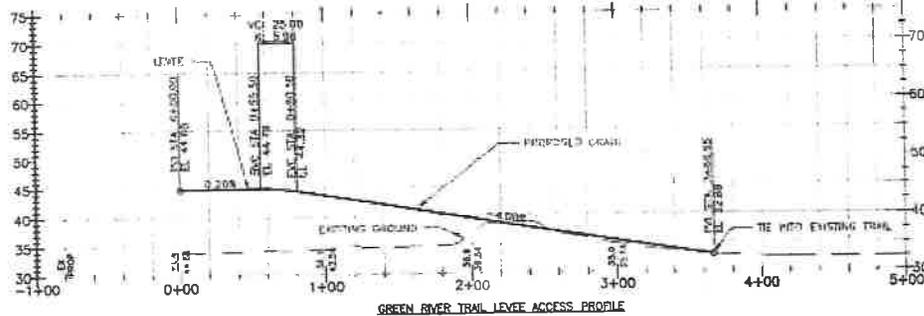
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
2. FOR MATERIAL DEPTHS, SEE STREET IMPROVEMENT TYPICAL SECTIONS
3. UNLESS OTHERWISE NOTED, ALIGNMENT STATION AND OFFSETS CORRESPOND TO THE ALIGNMENT CALLED OUT IN THE SHEET TITLEBLOCK
4. SEE TYPICAL SECTIONS ON SHEETS CP-15 AND CP-16 FOR SURFACING INFORMATION
5. SEE SHEET CP-23 FOR SIGN SCHEDULE
6. PROFILES FOR ROADS AND TRAILS SHOW THE ELEVATION AT THE TOP OF THE HMA LAYER, THE PROFILE SHOWN ON THE LEVEE PLAN AND PROFILE SHEETS DOES NOT (CL SERIES), PROFILE TIE IN POINTS ON THIS SHEET WILL BE HIGHER THAN ON THE LEVEE PROFILE SHEETS TO ACCOUNT FOR THIS HMA LAYER
7. SEE OSD SHEETS FOR GRADING CONTOURS

LEGEND:

- ASPHALT PAVEMENT
- SIGN

CONSTRUCTION NOTES:

- ④ BOLLARD (SEE SHEETS CP-7 AND CP-25)
- ⑥ CEMENT CONC. DRIVEWAY, CITY OF KENT STD. PLAN 6-44
- ⑦ CEMENT CONC. SIDEWALK, CITY OF KENT STD. PLAN 6-35
- ⑧ COMBINED CURB AND GUTTER, CITY OF KENT STD. PLAN 6-33
- ⑩ GREEN RIVER REGIONAL TRAIL (SEE TYPICAL SECTIONS ON SHEET CP-15)
- ⑪ PEDESTRIAN RAILING PER DETAIL SHEET CP-23
- ⑮ 6" SOR 21 PVC SLEEVE, SIM UTL 2/LP-59



CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 Know what's below. Call before you dig.

SURVEY JOB NO./SOURCE		FUNDING	
CHECKED:		PROJECT No.	1112056
CAD ENTERED:	J. FRYE 11/27/18	CONTRACT No.	C01415C20
DRAWN BY:	K. MCCONALD 11/27/18		
CHECKED BY:	B. MADGE 11/27/18		
SUPERVISOR:	S. JENSEN 11/27/18		
TECH:	RECORD CHANGES APPROVED BY DATE		

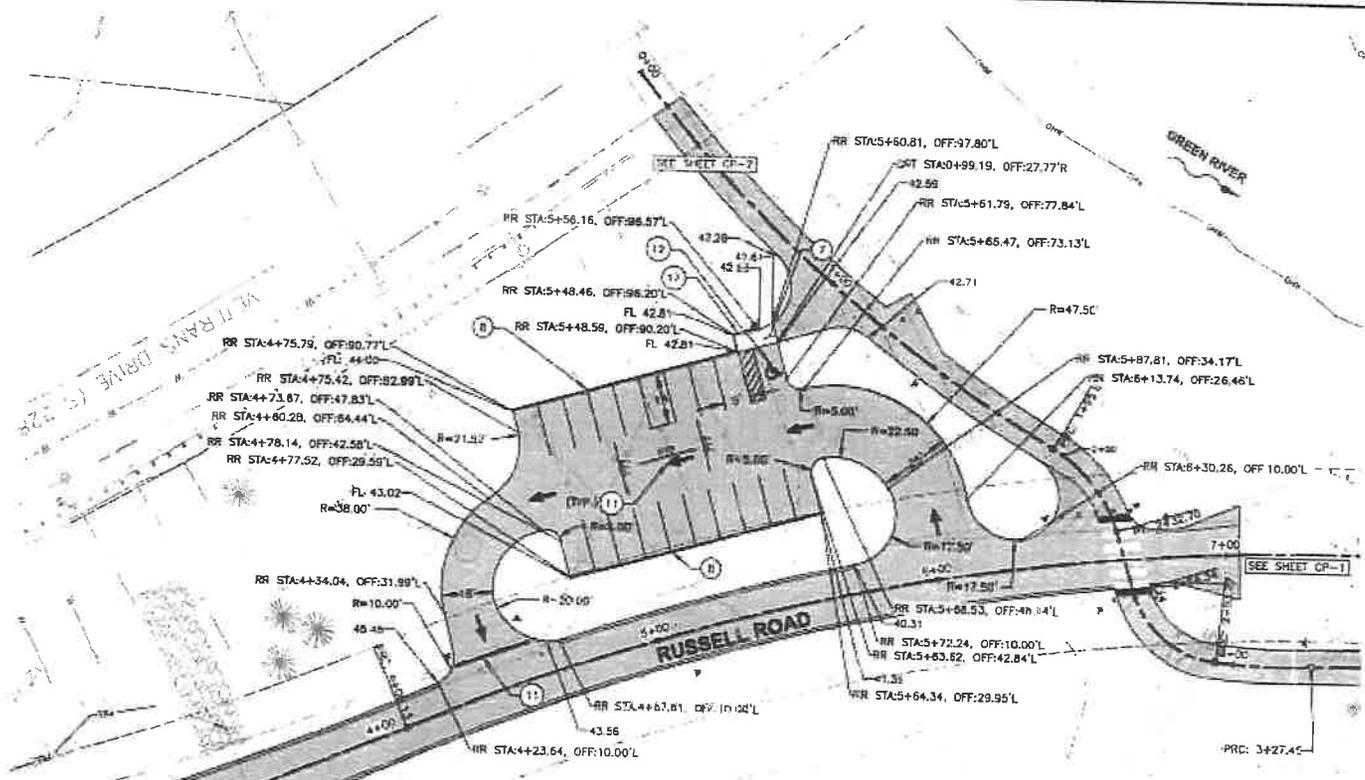


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Tru, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
STREET & TRAIL IMPROVEMENTS
PLAN AND PROFILE
 LEVEE STA 71+00 TO 75+50
 GREEN RIVER TRAIL LEVEE ACCESS

SHEET
CP-12

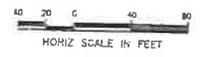
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- NOTES:**
- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
 - UNLESS OTHERWISE NOTED, ALIGNMENT STATION AND OFFSETS CORRESPOND TO THE ALIGNMENT CALLED OUT IN THE SHEET TITLEBLOCK.
 - FOR MATERIAL DEPTHS, SEE STREET IMPROVEMENT TYPICAL SECTIONS
 - SEE TYPICAL SECTIONS ON SHEETS CP-15 AND CP-16 FOR SURFACING INFORMATION
 - ALL POINTS ARE LOCATED AT CURB FLOW LINE UNLESS OTHERWISE NOTED.
 - SEE SHEET CP-23 FOR SIGN SCHEDULE
 - PARKING STALL STRIPING TO BE 4" WIDE WHITE PAINT SOLID LINE.

- LEGEND:**
- ASPHALT PAVEMENT
 - CEMENT CON, SIDEWALK

- CONSTRUCTION NOTES:**
- CEMENT CONC. SIDEWALK, CITY OF KENT STD. PLAN 6-35
 - COMBINED CURB AND GUTTER, CITY OF KENT STD. PLAN 6-35
 - CHANNELIZATION, CITY OF KENT STD. PLAN 6-76W (MODIFIED)
 - ADA PARKING SIGN, SYMBOL AND WHEEL STOP PER WSDOT SIGN FABRICATION MANUAL R7-801 AND WSDOT STD. PLAN M-17,10-02
 - CONCRETE EXTRUDED CURB, CITY OF KENT STD. PLAN 6-33



CALL 2 WORKING DAYS BEFORE YOU DIG
F-800-424-5555
(UNDERSTAND UTILITY LOCATIONS AND APPROX.)
 Know what's below.
 Call before you dig.

SURVEY JOB NO./SUBJECT:		FILING:	
CHECKED:			
DATE ENTERED:	J. FRYE 11/27/18	PROJECT No.	1112056
DESIGNED:	K. MCDONALD 11/27/18	CONTRACT No.	CO1415C20
CHECKED:	B. WAGNER 11/27/18		
SUPERVISOR:	S. JOHNSON 11/27/18		
	RECORD CHANGES APPROVED BY DATE		

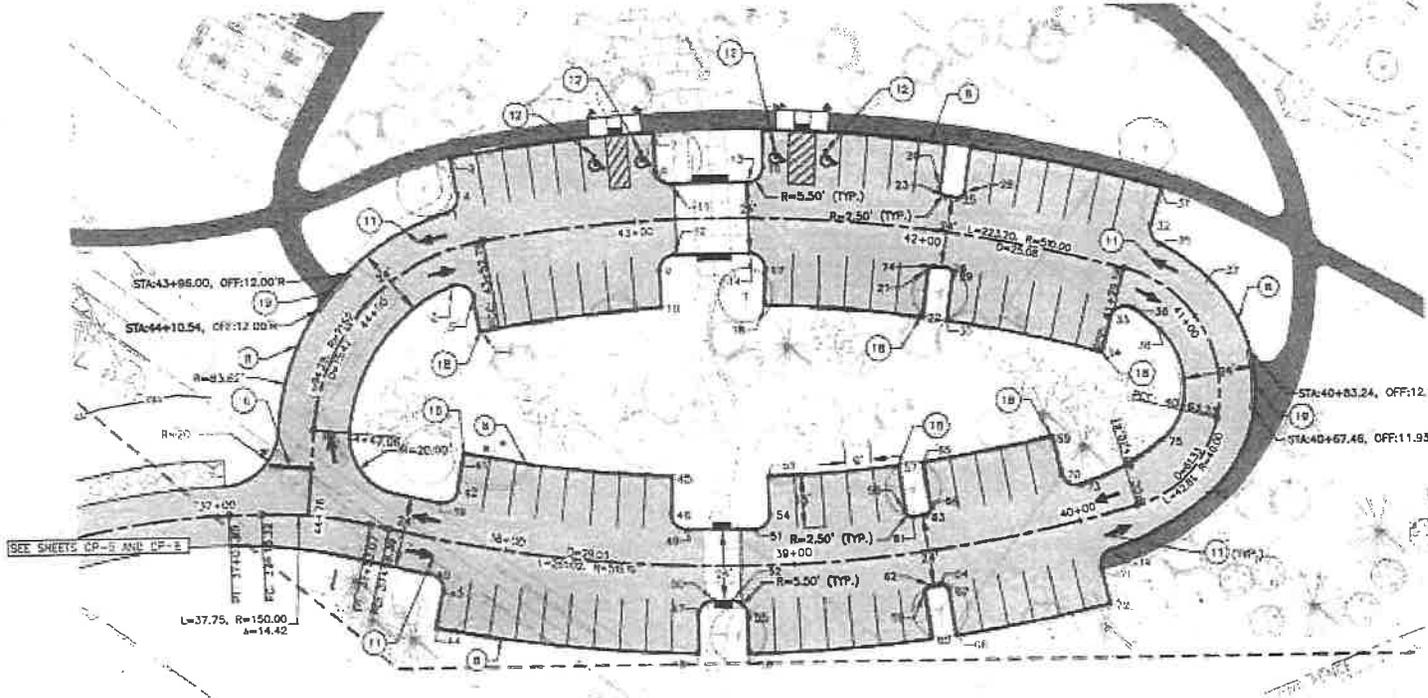


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Riparian Management Section
 Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
RUSSELL WOODS TRAILHEAD
PARKING LOT DETAIL

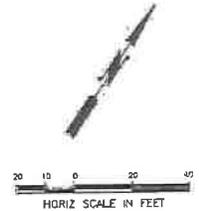
SHEET
CP-13

C:\working\user204749\KCLRR_CP-14_11262018 11:22:36 AM_KMCDONALD



- NOTES:**
- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
 - UNLESS OTHERWISE NOTED, ALIGNMENT STATION AND OFFSETS CORRESPOND TO THE ALIGNMENT CALLED OUT IN THE SHEET TITLEBLOCK
 - FOR MATERIAL DEPTHS, SEE STREET IMPROVEMENT TYPICAL SECTIONS
 - SEE TYPICAL SECTIONS ON SHEETS CP-15 AND CP-16 FOR SURFACING INFORMATION
 - ALL POINTS ARE LOCATED AT FLOWLINE OF CURB UNLESS OTHERWISE NOTED
 - PARKING STALL STRIPING TO BE 4" WIDE WHITE PAINT SOLID LINE
 - FOR SURROUNDING PARK DETAILS, SEE LP SHEETS
 - SEE SHEET CP-23 FOR SIGN SCHEDULE
 - SEE SHEET CP-24 FOR RAISED CROSSING DETAIL

- LEGEND:**
- ASPHALT PAVEMENT
 - CONCRETE SIDEWALK, 4" DEPTH
- CONSTRUCTION NOTES:**
- CEMENT CONC. SIDEWALK, CITY OF KENT STD. PLAN 6-35
 - COMBINED CURB AND CUTTER, CITY OF KENT STD. PLAN 6-33
 - CHANNELIZATION, CITY OF KENT STD. PLAN 6-76M (MODIFIED)
 - ADA PARKING SIGN AND SYMBOL WSDOT SIGN FABRICATION MANUAL R7-B01 AND WSDOT STD. PLAN M-24.60-04
 - STOP BAR, CITY OF KENT STD. PLAN 6-76
 - CURB CUT (SEE DETAIL ON SHEET CP-25)
 - ROLLED CURB, CITY OF KENT STD. PLAN 6-33



Know what's below.
Call before you dig.
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

Point #	Elevation	STATION	OFFSET
1	43.07	43+61.81	12.00'R
2	42.62	43+69.10	12.00'L
3	44.00	43+56.92	29.88'R
4	43.24	43+57.40	17.04'R
5	42.70	43+61.85	18.39'L
6	42.91	43+64.05	29.79'L
7	44.00	42+91.84	29.82'R
8	43.90	42+91.83	16.88'R
9	43.48	42+82.82	17.05'L
10	43.18	42+82.84	30.18'L
11	43.84	42+86.52	11.82'R
12	43.49	42+87.17	12.18'L
13	43.85	42+61.02	11.86'R

Point #	Elevation	STATION	OFFSET
14	43.52	42+60.18	12.14'L
15	44.00	42+55.72	28.86'R
16	43.91	42+55.71	17.33'R
17	43.48	42+54.60	17.67'L
18	43.14	42+54.58	30.14'L
19	44.00	41+96.21	29.94'R
20	43.53	41+98.19	14.40'R
21	43.01	41+97.22	14.56'L
22	42.82	41+97.20	30.06'L
23	43.41	41+93.78	11.90'R
24	43.06	41+94.68	12.06'L
25	43.37	41+90.13	11.88'R
26	43.02	41+90.26	12.01'L

Point #	Elevation	STATION	OFFSET
27	44.00	41+87.70	29.95'R
28	43.50	41+87.69	14.37'R
29	42.96	41+87.85	14.51'L
30	42.72	41+87.57	30.05'L
31	44.00	41+26.58	30.18'R
32	43.40	41+28.02	17.26'R
33	42.53	41+30.27	18.04'L
34	42.38	41+30.26	29.98'L
35	42.93	41+21.95	12.00'R
36	42.56	41+20.88	12.08'L
37	42.81	41+05.64	11.70'R
38	42.45	41+04.57	12.28'L
39	42.83	37+74.67	12.04'L

Point #	Elevation	STATION	OFFSET
40	43.19	37+76.23	12.00'R
41	42.54	37+80.48	30.07'L
42	42.74	37+80.48	17.57'L
43	43.30	37+81.53	17.41'R
44	43.52	37+81.53	30.00'R
45	42.18	38+56.93	30.00'L
46	42.32	38+56.93	17.53'L
47	42.84	38+66.58	17.47'R
48	43.02	38+66.58	30.00'R
49	42.42	38+52.53	12.00'L
50	42.72	38+71.90	12.00'R
51	42.31	38+86.70	12.00'L
52	42.69	38+78.27	12.00'R

Point #	Elevation	STATION	OFFSET
53	41.99	38+82.39	30.00'L
54	42.18	38+82.36	17.53'L
55	42.79	38+83.59	17.47'R
56	42.94	38+83.59	30.00'R
57	41.76	39+40.18	30.00'L
58	41.97	39+40.33	14.50'L
59	42.42	39+43.13	14.46'R
60	42.64	39+43.13	30.00'R
61	42.02	39+42.91	12.02'L
62	42.38	39+45.53	11.97'R
63	41.99	39+47.30	12.02'L
64	42.35	39+49.19	11.93'R
65	41.71	39+49.73	30.00'L

Point #	Elevation	STATION	OFFSET
66	41.93	39+49.88	14.55'L
67	42.40	39+51.63	14.43'R
68	42.59	39+51.63	30.00'R
69	41.47	39+97.51	30.00'L
70	41.66	39+97.51	17.33'L
71	42.21	40+02.88	17.46'R
72	42.39	40+02.68	30.00'R
73	41.78	40+03.43	11.81'L
74	42.17	40+07.63	12.00'R
75	42.02	40+44.98	14.17'L
76	42.85	40+41.13	9.58'R

SURVEY JOB NO./SOURCE:		RECORD:	
CHECKED:		PROJECT No.	1112056
CAD ENTERED:	J. FITE 11/27/18	CONTRACT No.	CO1415C20
DESIGNED:	S. MCDONALD 11/27/18	REVISION	BY DATE
CHECKED:	B. HAZEE 11/27/18		
SUPERVISOR:	S. JOHNSON 11/27/18		
RECORD CHANGES APPROVED	BY DATE		

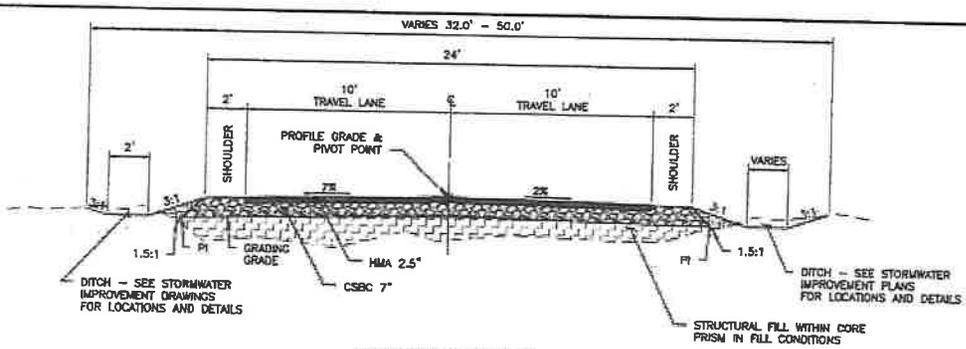


King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodset Management Section
Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
VAN DOREN'S PARK
PARKING LOT DETAIL
RUSSELL ROAD STA 364+50 TO 44+77

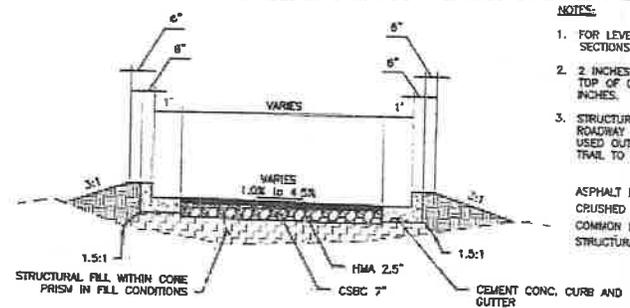
SHEET
CP-14

C:\pwworking\land2004\1749\KCLR_CP-15.dwg, KCLR_CP-15, 11/26/2019 12:18:09 PM, MCDONALD



RUSSELL ROAD TYPICAL SECTION

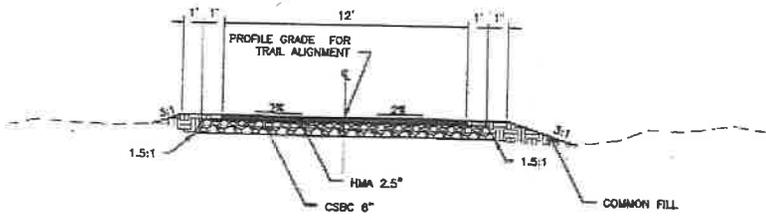
N.T.S.
 RUSSELL ROAD STA 0+80 TO STA 7+05
 PSE CORRIDOR TRAIL STA 0+00 TO STA 84+80
 EMERGENCY ACCESS STA 0+10 TO STA 0+99.29
 NURSERY ENTRANCE STA 0+10 TO STA 1+57.82



RUSSELL WOODS TRAILHEAD AND VAN DOREN'S PARK PARKING LOT

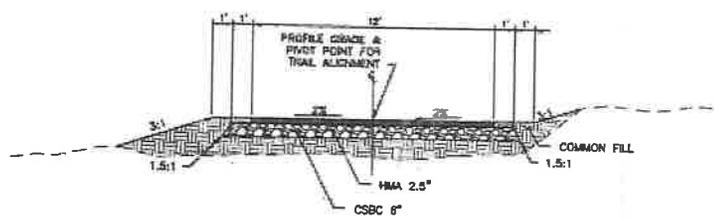
N.T.S.
 RUSSELL ROAD STA 4+28.50 TO STA 8+23.07
 RUSSELL ROAD STA 37+03.77 TO STA 44+77.03

- NOTES:**
- FOR LEVEE MAINTENANCE ROAD TYPICAL SECTIONS SEE SHEET CL-5.
 - 2 INCHES OF COMPOST TO BE TILLED INTO TOP OF COMMON FILL TO A DEPTH OF 10 INCHES.
 - STRUCTURAL FILL TO BE USED INSIDE ROADWAY CORE PRISM. COMMON FILL TO BE USED OUTSIDE OF CORE PRISM. PAVED TRAIL TO USE ONLY COMMON FILL.
- LEGEND**
- ASPHALT PAVEMENT
 - CRUSHED SURFACING BASE COURSE
 - COMMON FILL
 - STRUCTURAL FILL



PAVED TRAIL TYPICAL SECTION

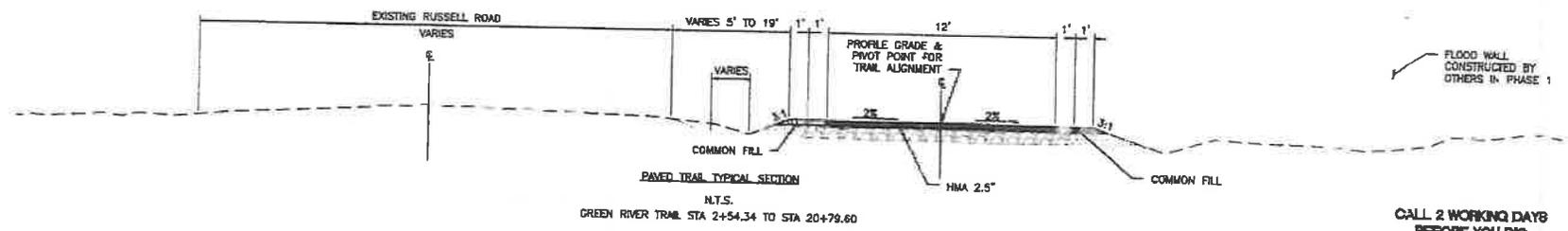
N.T.S.
 GREEN RIVER TRAIL STA 0+16 TO STA 2+32.50



PAVED TRAIL TYPICAL SECTION

N.T.S.
 GREEN RIVER TRAIL STA 32+20.37 TO STA 52+72.57

FLOOD WALL CONSTRUCTED BY OTHERS IN PHASE 1



CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5655
 (UNDEGROUND UTILITY LOCATIONS MAY VARY)
 Know what's below.
 Call before you dig.

SURVEY JOB NO./DATE:		FUNDING:	
CHECKED:			
CAD DRAWN:	J. FRIE 11/27/19		
DESIGNED:	E. MCDONALD 11/27/19	PROJECT No.	111205E
CHECKED:	E. MAGEE 11/27/19	CONTRACT No.	C01415C20
SUPERVISOR:	E. JOHNSON 11/27/19		
REV	RECORD CHANGES APPROVED	BY	DATE

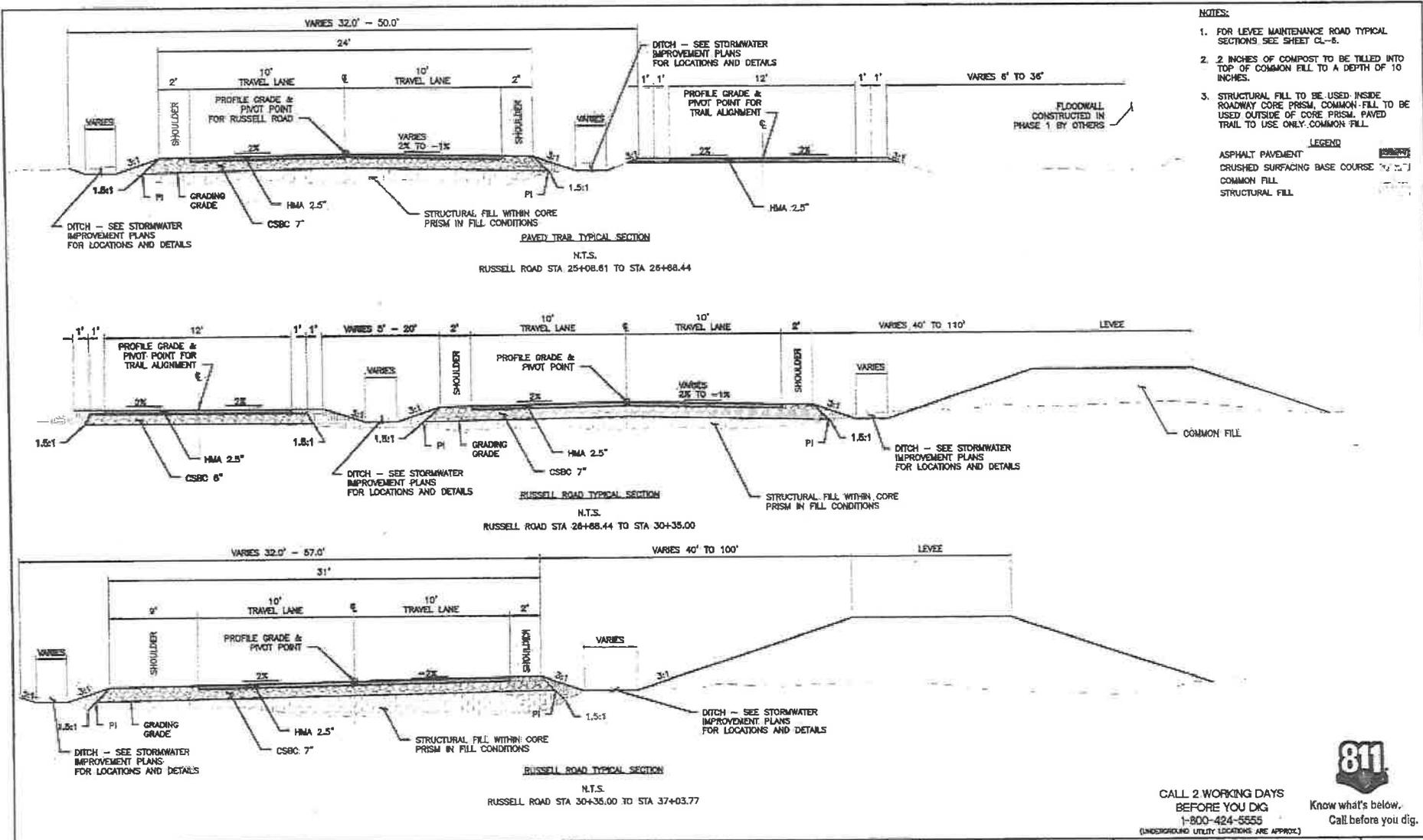


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chelsea Trice, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
STREET & TRAIL IMPROVEMENTS
TYPICAL SECTIONS

SHEET
CP-15

C:\pwworking\162041749\KCLRR_C-111_11262019_12:23:37 PM_KMCDONALD



- NOTES:**
- FOR LEVEE MAINTENANCE ROAD TYPICAL SECTIONS SEE SHEET CL-8.
 - 2 INCHES OF COMPOST TO BE TILLED INTO TOP OF COMMON FILL TO A DEPTH OF 10 INCHES.
 - STRUCTURAL FILL TO BE USED INSIDE ROADWAY CORE PRISM. COMMON FILL TO BE USED OUTSIDE OF CORE PRISM. PAVED TRAIL TO USE ONLY COMMON FILL.
- LEGEND**
- ASPHALT PAVEMENT
 - CRUSHED SURFACING BASE COURSE
 - COMMON FILL
 - STRUCTURAL FILL



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

Know what's below.
Call before you dig.

DATE	BY	REVISION	BY	DATE
11/27/19	A. RYAN			
11/27/19	A. RYAN			
11/27/19	B. WAGNER			
11/27/19	E. JOHNSON			

PROJECT NO: 1312058

DATE: 11/27/19

12/2/19

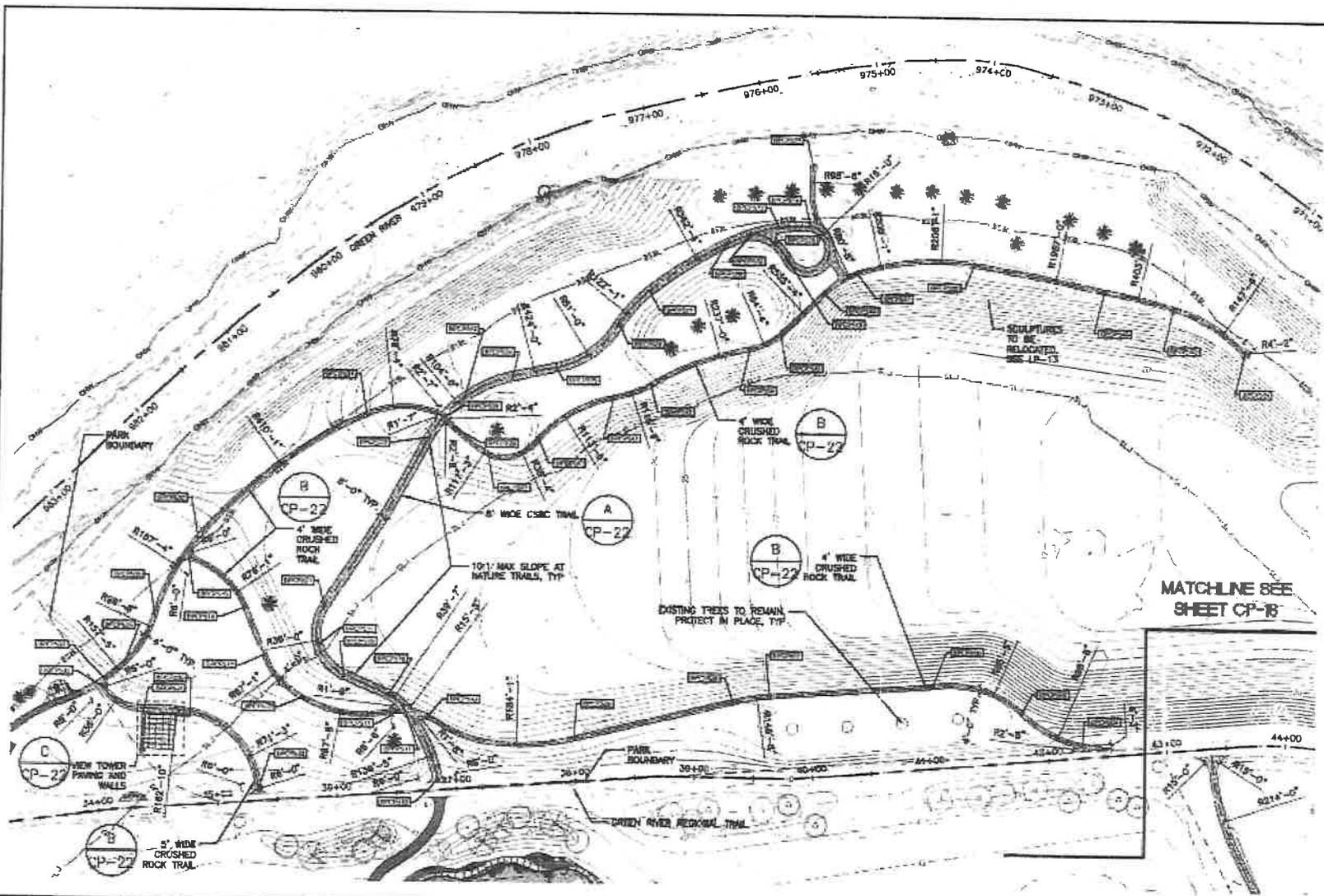


King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Curtis True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
STREET & TRAIL IMPROVEMENTS
TYPICAL SECTIONS

SHEET
CP-16

- NOTES:
- ARC RADIUS PROVIDED BETWEEN CONTROL POINTS (CP), WHEN STRAIGHT LINE BETWEEN CP'S, NO ARC RADIUS IS PROVIDED.
 - REFER TO CP-21 FOR NON-PARK TRAIL IMPROVEMENT SHEET CONTROL POINT TABLE.



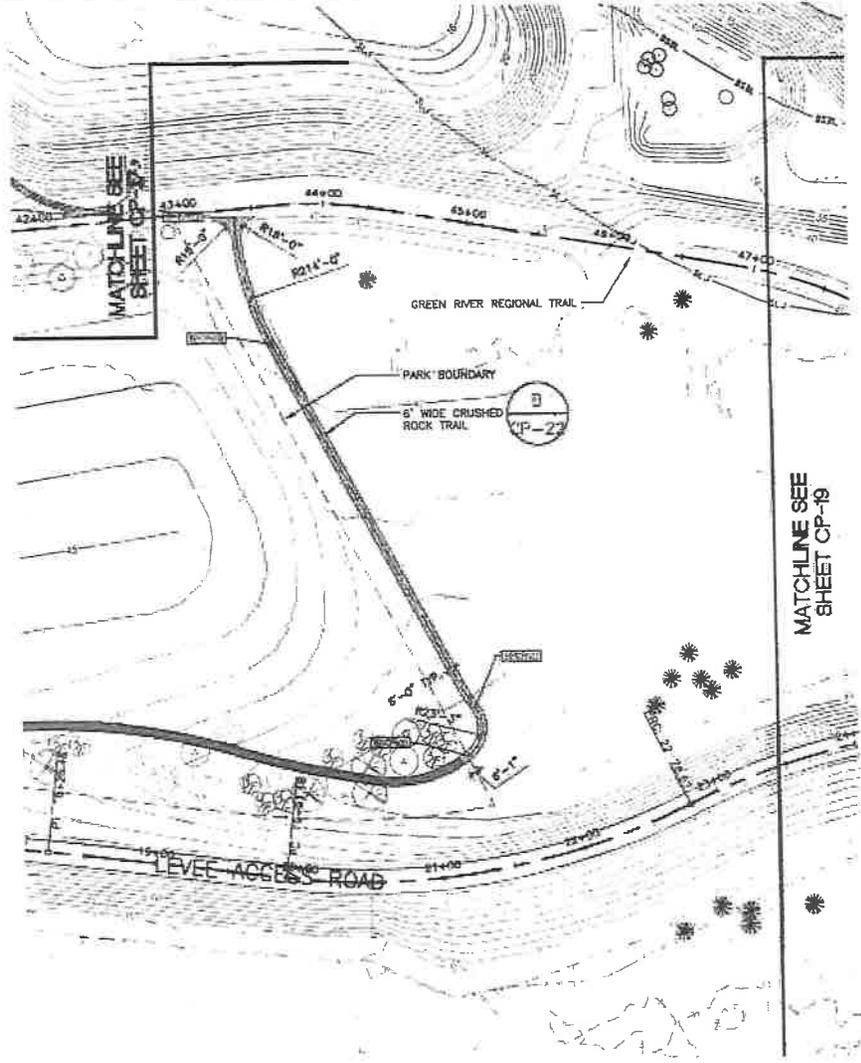
SURVEY JOB NO./SUBJECT:		FLAKING:	
CHECKED:		PROJECT No.	1112056
DWG. EXTENDED:	02/08 11/27/18	CONTRACT No.	CD1415C20
DESIGNED:	02/08 11/27/18	DATE:	11/27/19
CHECKED:	05 11/29/18	RECORD CHANGES APPROVED BY:	
SUPERVISOR:	06 11/29/18	DATE:	



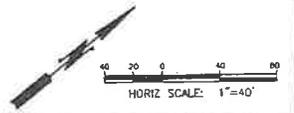
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chelcie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
**NON-PARK TRAIL
 IMPROVEMENTS - PLAN A**

SHEET
CP-17



- NOTES:**
1. ARC RADIUS PROVIDED BETWEEN CONTROL POINTS (CP). WHEN STRAIGHT LINE BETWEEN CP'S, NO ARC RADIUS IS PROVIDED.
 2. REFER TO CP-21 FOR NON-PARK TRAIL IMPROVEMENT SHEET CONTROL POINT TABLE.



SURVEY JOB NO./SUBJECT:					
CHECKED:	02/07/11	11/27/18			
CAD ENTERED:	JL/08	11/07/18	MJM	REVISION	BY DATE
DESIGNED:	SB	11/27/18			
CHECKED:	SB	11/27/18			
SUPERVISOR:	DB	11/27/18			
	MJM	RECORD CHANGES APPROVED	BY	DATE	

FUNDING:	
PROJECT No.	1112058
CONTRACT No.	00141SC20



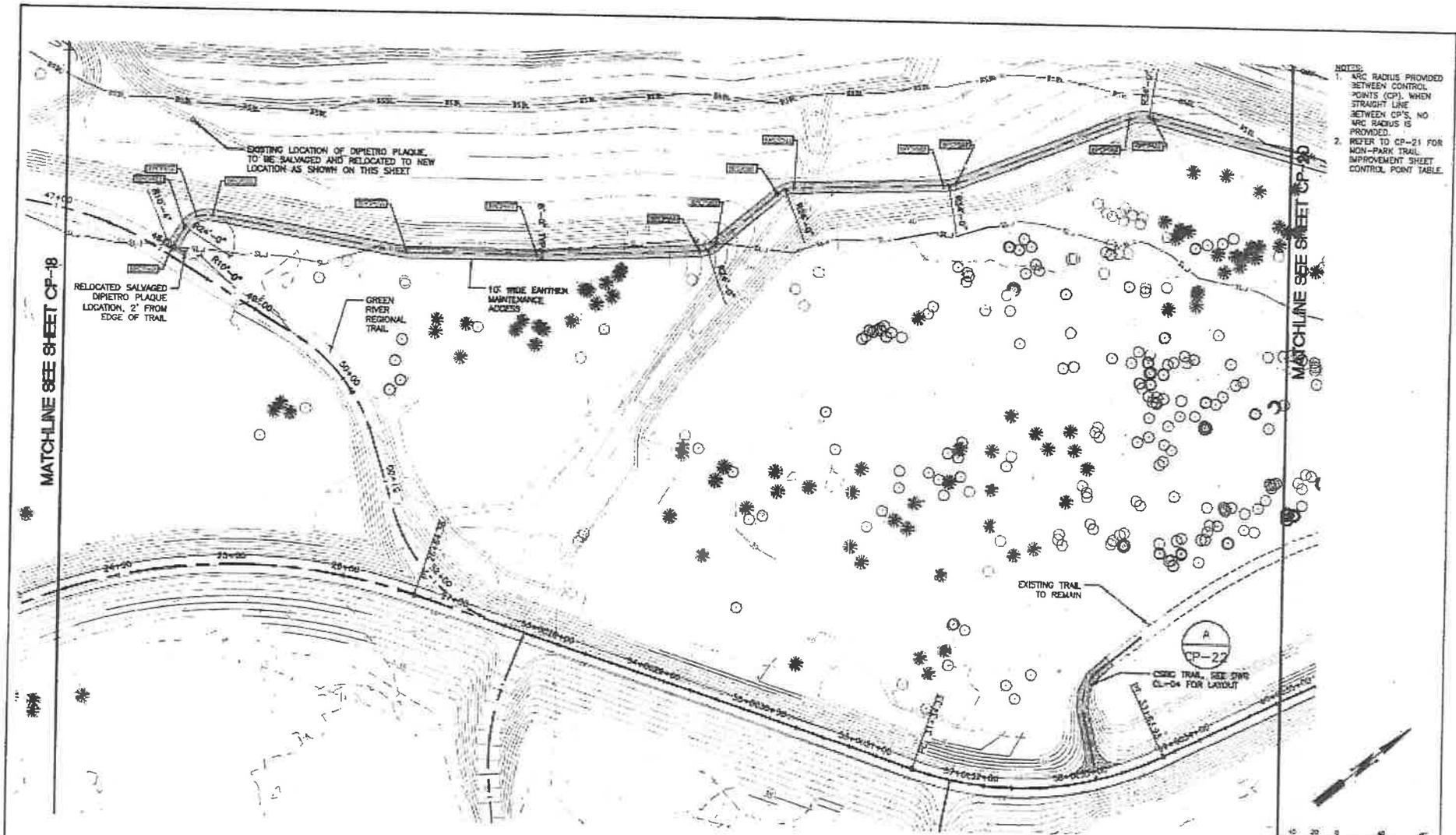
11/27/19



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christine True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
**NON-PARK TRAIL
 IMPROVEMENTS - PLAN B**

SHEET
CP-18



- NOTES:
1. ARC RADIUS PROVIDED BETWEEN CONTROL POINTS (CP). WHEN STRAIGHT LINE BETWEEN CP'S, NO ARC RADIUS IS PROVIDED.
 2. REFER TO CP-21 FOR NON-PARK TRAIL IMPROVEMENT SHEET CONTROL POINT TABLE.

MATCHLINE SEE SHEET CP-18

MATCHLINE SEE SHEET CP-20

HORIZ SCALE: 1"=40'

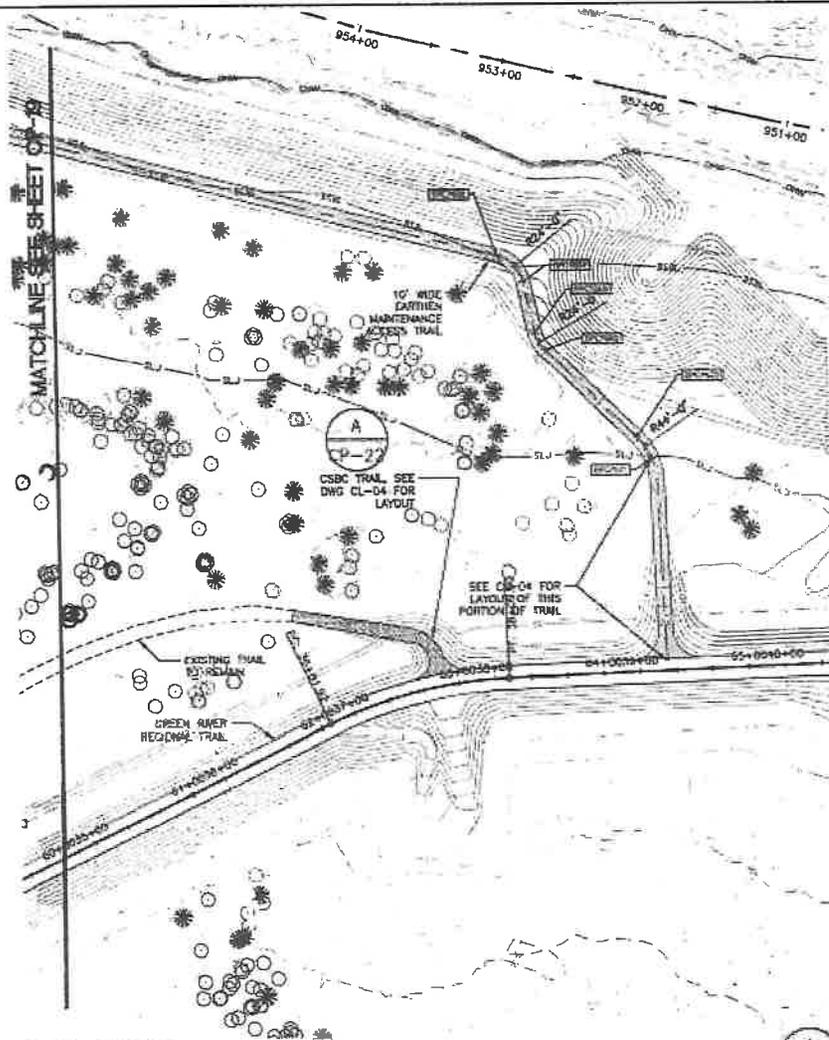
SURVEY JOB NO./SOURCE		PLANNED:	
CHECKED:		PROJECT No.	1112056
CAD DATED:	02/28 1/23/18	CONTRACT No.	CO1415C20
DESIGNED:	02/28 1/23/18	REVISION	BY DATE
CHECKED:	02 1/23/18	RECORD CHANGES APPROVED	BY DATE
SUPERVISOR:	02 11/27/18		



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
NON-PARK TRAIL IMPROVEMENTS - PLAN C

SHEET
CP-19



- NOTES:
1. ARC RADIUS PROVIDED BETWEEN CONTROL POINTS (CP). WHEN STRAIGHT LINE BETWEEN CP'S, NO ARC RADIUS IS PROVIDED.
 2. REFER TO CP-21 FOR NON-PARK TRAIL IMPROVEMENT SHEET CONTROL POINT TABLE.

ENLARGEMENT
SCALE: 1"=40'-0"



SURVEY JOB NO./SOURCE			
CHECKED:			
DATE EXTENDED:	02/08	11/27/18	
DESIGNED:	02/08	11/27/18	MAN. REVISION BY DATE
CHECKED:	02	11/27/18	
SUPERVISOR:	09	11/27/18	
MAN.	RECORD CHANGES APPROVED	BY	DATE

FINANCING:	
PROJECT No.	1112056
CONTRACT No.	CO1415C20



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Trice, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
NON-PARK TRAIL
IMPROVEMENTS - PLAN D

SHEET
CP-20

NON-PARK TRAIL IMPROVEMENTS CONTROL POINT TABLE		
NUMBER	EASTING	NORTHING
BPCP500	E: 1284806.61	N: 151315.0890
BPCP501	E: 1284783.98	N: 151339.6595
BPCP502	E: 1284503.78	N: 151386.8613
BPCP503	E: 1284420.57	N: 151421.8488
BPCP504	E: 1284347.93	N: 151340.2706
BPCP505	E: 1284295.12	N: 151316.1346
BPCP506	E: 1284232.02	N: 151269.2313
BPCP507	E: 1284155.69	N: 151154.8779
BPCP508	E: 1284140.40	N: 151127.4117
BPCP509	E: 1284082.92	N: 151002.4107
BPCP510	E: 1283999.93	N: 150916.0909
BPCP511	E: 1283975.31	N: 150899.5842
BPCP512	E: 1283917.75	N: 150843.1248
BPCP513	E: 1283870.12	N: 150838.9324
BPCP514	E: 1283828.25	N: 150850.8129
BPCP515	E: 1283765.72	N: 150838.4310
BPCP516	E: 1284041.27	N: 150890.5048
BPCP517	E: 1283974.53	N: 150905.2598
BPCP518	E: 1283959.17	N: 150901.2904
BPCP519	E: 1283923.55	N: 150881.9344
BPCP520	E: 1283890.80	N: 150879.8520
BPCP521	E: 1283868.05	N: 150903.5089
BPCP522	E: 1283808.20	N: 151059.6514
BPCP523	E: 1283799.37	N: 151102.9621
BPCP524	E: 1283809.80	N: 151146.1972
BPCP525	E: 1283826.07	N: 151179.7009
BPCP526	E: 1283829.04	N: 151243.7111
BPCP527	E: 1283822.70	N: 151281.0179
BPCP528	E: 1283830.77	N: 151357.1204
BPCP529	E: 1283957.37	N: 150786.0950
BPCP530	E: 1283869.91	N: 150760.8438
BPCP531	E: 1283844.24	N: 150731.4946
BPCP532	E: 1283808.75	N: 150715.4950
BPCP533	E: 1283804.44	N: 150720.6938
BPCP534	E: 1283804.16	N: 150742.1371
BPCP535	E: 1283787.13	N: 150788.8443
BPCP536	E: 1283757.74	N: 150854.7818

BPCP537	E: 1283760.69	N: 151030.2324
BPCP538	E: 1283802.00	N: 151079.4616
BPCP539	E: 1283815.28	N: 151081.1968
BPCP540	E: 1283849.30	N: 151090.0077
BPCP541	E: 1283864.90	N: 151131.3486
BPCP542	E: 1283875.43	N: 151202.7558
BPCP543	E: 1283886.34	N: 151233.9095
BPCP544	E: 1283912.95	N: 151318.7528
BPCP545	E: 1283918.95	N: 151347.0634
BPCP546	E: 1283913.85	N: 151396.6211
BPCP547	E: 1283917.24	N: 151428.7408
BPCP548	E: 1283971.75	N: 151511.4129
BPCP549	E: 1284055.99	N: 151585.2183
BPCP550	E: 1284102.59	N: 151622.8980
BPCP551	E: 1284168.82	N: 151648.9491
BPCP552	E: 1284763.16	N: 151739.0421
BPCP553	E: 1284755.46	N: 151759.4936
BPCP554	E: 1284754.59	N: 151773.8002
BPCP555	E: 1284761.82	N: 151785.7472
BPCP556	E: 1284891.34	N: 151902.9183
BPCP557	E: 1284962.83	N: 151993.5043
BPCP558	E: 1285047.03	N: 152111.4727
BPCP559	E: 1285051.52	N: 152126.6040
BPCP560	E: 1285048.17	N: 152197.8425
BPCP561	E: 1285052.70	N: 152212.9262
BPCP562	E: 1285131.20	N: 152320.9148
BPCP563	E: 1285136.28	N: 152331.1448
BPCP564	E: 1285183.57	N: 152488.4944
BPCP565	E: 1285195.30	N: 152505.5809
BPCP566	E: 1285543.72	N: 152775.6453
BPCP567	E: 1285569.00	N: 152778.2195
BPCP568	E: 1285601.06	N: 152762.4785
BPCP569	E: 1285614.87	N: 152760.2394
BPCP570	E: 1285700.69	N: 152771.8780
BPCP571	E: 1285717.64	N: 152770.7143
BPCP572	E: 1283836.90	N: 151377.4294
BPCP573	E: 1283846.82	N: 151399.2597
BPCP574	E: 1283862.37	N: 151421.2345
BPCP575	E: 1283855.26	N: 151388.3728
BPCP576	E: 1283872.15	N: 151388.9495
BPCP577	E: 1283823.80	N: 151453.4200

NON-PARK TRAIL IMPROVEMENTS CONTROL POINT TABLE
NTS

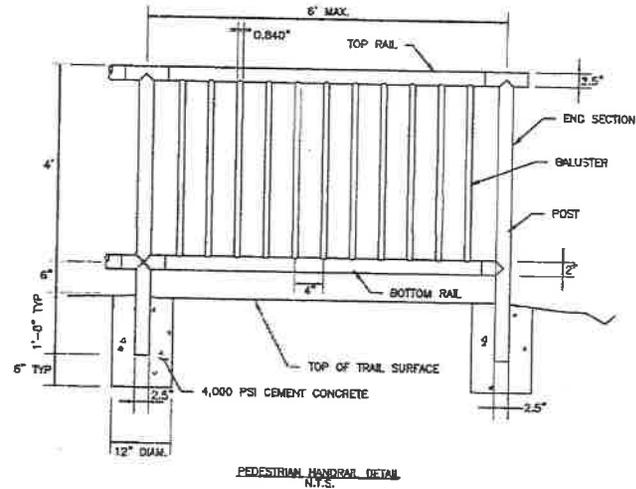
SURVEY JOB NO./SOURCE: CHECKED: _____ DATE EXTENDED: <u>11/11/19</u> <u>11/21/19</u> DESIGNED: <u>11/20</u> <u>11/21/19</u> <u>1919</u> CHECKED: <u>05</u> <u>11/21/19</u> SUPERVISOR: <u>05</u> <u>11/21/19</u>		RASING: _____ PROJECT No. <u>1112058</u> CONTRACT No. <u>CD1415C20</u>		 11/27/19		 King County Department of Natural Resources and Parks Water and Land Resources Division <i>River and Floodplain Management Section</i> Corinne True, Director	LOWER FUSSELL LEVEE SETBACK PROJECT PHASE 2 NON-PARK TRAIL IMPROVEMENTS - CP TABLE	SHEET CP-21
TRAIL RECORD CHANGES APPROVED BY DATE								

SIGN SCHEDULE:

PROPOSED SIGNS						
SIGN NO.	DESCRIPTION	SIGN CODE	LOCATION	SIGN SIZE W' H'	SIGN SIZE L' H'	REMARKS
P1	CHEVRON	W-9	RUSSELL ROAD CL 040714 29.2' R	18	24	EXISTING SIGN TO BE RESET AT NEW ELEVATION
P2	CHEVRON	W-9	RUSSELL ROAD CL 1+47.85 21.2' R	18	24	EXISTING SIGN TO BE RESET AT NEW ELEVATION
P3	CHEVRON	W-9	RUSSELL ROAD CL 1+33.19 19.0' R	18	24	EXISTING SIGN TO BE RESET AT NEW ELEVATION
P4	CHEVRON	W-9	RUSSELL ROAD CL 1+84.82 18.1' R	18	24	EXISTING SIGN TO BE RESET AT NEW ELEVATION
P5	SPEED LIMIT 25 MPH	R2-1	RUSSELL ROAD CL 2+48.37 18.4' R	24	30	EXISTING SIGN TO BE RESET AT NEW ELEVATION
P6A	RIGHT TURN AHEAD	W-10	RUSSELL ROAD CL 2+28.80 17.0' L	36	36	EXISTING SIGN TO BE RESET AT NEW ELEVATION
P6B	15 MPH	W3-1P	RUSSELL ROAD CL 2+28.80 17.0' L	18	18	EXISTING SIGN TO BE RESET AT NEW ELEVATION BELOW PSA
P7	STOP	R1-1	RUSSELL ROAD CL 4+20.89 12.6' L	30	30	REINSTALL SALVAGED STOP SIGN
P8	DO NOT ENTER	R3-1	RUSSELL ROAD CL 4+20.89 12.6' L	30	30	REINSTALL SALVAGED STOP SIGN
P9A	TRAIL CROSSING	W1-15a	RUSSELL ROAD CL 5+10.90 14.5' R	30	30	
P9B	AHEAD	W6-8P	RUSSELL ROAD CL 5+10.90 14.5' R	24	12	LOCATED BELOW P9A
P10	RESERVED PARKING	R7-301	RUSSELL ROAD CL 5+35.13 26.5' L	12	18	WOOD SIGN CATALOG
P11	STOP AHEAD	R3-1	RUSSELL ROAD CL 6+41.75 64.3' L	30	30	
P12	STOP	R1-1	RUSSELL ROAD CL 6+38.14 16.5' L	30	30	REINSTALL SALVAGED STOP SIGN
P13	STOP	R1-1	RUSSELL ROAD CL 6+70.18 18.8' L	30	30	
P14A	TRAIL CROSSING	W1-15	RUSSELL ROAD CL 6+40.04 14.0' L	30	30	
P14B	DOWNWARD DIAGONAL ARROW	W6-7P	RUSSELL ROAD CL 6+40.04 14.0' L	24	12	LOCATED BELOW P14A
P15A	DUAL CROSSING	W1-15	RUSSELL ROAD CL 6+55.32 16.8' R	30	30	
P15B	DOWNWARD DIAGONAL ARROW	W6-7P	RUSSELL ROAD CL 6+55.32 16.8' R	24	12	LOCATED BELOW P15A
P16	STOP	R1-1	RUSSELL ROAD CL 6+77.38 14.1' R	30	30	
P17	STOP AHEAD	W3-1	RUSSELL ROAD CL 7+27.79 30.5' R	30	30	
P18	CITY OF KENT PROPERTY NO ENCROACHING	W1-15A	RUSSELL ROAD CL 8+40.43 46.4' R	30	30	EXISTING SIGN TO BE RELOCATED EAST OF TRAIL
P19A	TRAIL CROSSING	W1-15A	RUSSELL ROAD CL 8+27.37 14.6' L	30	30	
P19B	AHEAD	W6-8P	RUSSELL ROAD CL 8+27.37 14.6' L	24	12	LOCATED BELOW P19A
P20	RIGHT TURN EXITS 30 FEET BEYOND SIGN	W1-15	RUSSELL ROAD CL 1+40.00 100.4' L	18	24	
P21	STOP AHEAD	W3-1	RUSSELL ROAD CL 2+43.28 31.6' R	30	30	
P22A	SPEED HUMP AHEAD	W3-1P	RUSSELL ROAD CL 2+43.28 31.6' R	30	30	
P22B	15 MPH	W3-1P	RUSSELL ROAD CL 2+43.28 31.6' R	18	18	LOCATED BELOW P22A
P23	STOP	R1-1	RUSSELL ROAD CL 2+67.77 12.5' R	30	30	
P24A	SPEED HUMP AHEAD	W3-1P	RUSSELL ROAD CL 2+68.56 12.9' L	30	30	
P24B	15 MPH	W3-1P	RUSSELL ROAD CL 2+68.56 12.9' L	18	18	LOCATED BELOW P24A
P25	STOP	R1-1	RUSSELL ROAD CL 2+87.62 21.0' L	30	30	
P26	STOP	R1-1	RUSSELL ROAD CL 2+87.62 21.0' L	30	30	
P27	STOP AHEAD	W3-1	RUSSELL ROAD CL 2+54.92 31.6' L	30	30	
P28	STOP	R1-1	RUSSELL ROAD CL 2+25.12 12.4' L	30	30	
P29	STOP	R1-1	RUSSELL ROAD CL 2+20.74 30.4' R	30	30	
P30	NO TRUCKS SYMBOL	RUSSELL ROAD CL 2+20.74 30.4' R	18	18	REINSTALL SALVAGED NO TRUCKS SYMBOL	
P31A	SPEED HUMP AHEAD	W3-1P	RUSSELL ROAD CL 2+48.26 14.3' R	30	30	
P31B	SPEED HUMP AHEAD	W3-1P	RUSSELL ROAD CL 2+48.26 14.3' R	18	18	LOCATED BELOW P31A
P32A	SPEED HUMP AHEAD	W3-1P	RUSSELL ROAD CL 3+044.38 12.8' L	30	30	
P32B	15 MPH	W3-1P	RUSSELL ROAD CL 3+044.38 12.8' L	18	18	LOCATED BELOW P32A
P33	SPEED LIMIT 25 MPH	R2-1	RUSSELL ROAD CL 3+427.88 21.5' L	24	30	
P34	STOP	R1-1	RUSSELL ROAD CL 4+458.56 16.7' R	30	30	
P35	RESERVED PARKING	R7-301	RUSSELL ROAD CL 43+11.02 38.7' R	12	18	WOOD SIGN CATALOG
P36	RESERVED PARKING	R7-301	RUSSELL ROAD CL 42+96.50 38.7' R	12	18	WOOD SIGN CATALOG
P37	RESERVED PARKING	R7-301	RUSSELL ROAD CL 42+48.56 38.7' R	12	18	WOOD SIGN CATALOG
P38	RESERVED PARKING	R7-301	RUSSELL ROAD CL 42+33.29 38.7' R	12	18	WOOD SIGN CATALOG
P39A	DOWNWARD DIAGONAL ARROW	W6-7P	RUSSELL ROAD CL 40+88.41 33.10' R	24	12	LOCATED BELOW P39A
P40	STOP	R1-1	RUSSELL ROAD CL 40+93.25 34.71' R	30	30	

SIGN CONSTRUCTION NOTES:

- EXISTING SIGNS OUTSIDE OF THE PROJECT CONSTRUCTION LIMITS ARE TO BE PROTECTED IN PLACE.
- REFER TO CP SHEETS FOR PROPOSED SIGN LOCATIONS AND ADDITIONAL INFORMATION.
- SEE REMOVAL SHEETS FOR EXISTING SIGNAGE TO REMAIN IN PLACE WITHIN THE PROJECT LIMITS.
- SEE CITY OF KENT STD PLAN 6-82 FOR SIGN INSTALLATION DETAILS.
- ALL SIGNS TO HAVE 7' CLEARANCE BETWEEN FINISHED GRADE AND BOTTOM OF SIGN.



HANDRAIL NOTES:

- RAILING SHALL BE CV PIPE RAIL, GALVANIZED STEEL OR APPROVED EQUIVALENT. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.
- SHOP DRAWINGS OF RAILINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION AND INCLUDING AN ERECTION DIAGRAM. MATERIALS BEING USED SHALL BE SPECIFIED IN THE SHOP DRAWINGS.
- ALL GALVANIZED STEEL PARTS SHALL BE GIVEN A CLEAR ANODIC COATING AT LEAST 0.0006 INCH THICK AND BE HOT WATER SEALED AND SHALL HAVE A UNIFORM FINISH.
- PIPE RAILING AND PIPE RAILING SPLICES MAY BE HEATED TO NOT MORE THAN 400°F FOR A PERIOD NOT TO EXCEED 30 MINUTES TO FACILITATE FORMING OR BENDING.
- CUTTING SHALL BE DONE BY SAWING OR MILLING AND ALL CUTS SHALL BE TRUE AND SMOOTH. FLAME CUTTING WILL NOT BE PERMITTED.
- PIPE RAILING, PIPE BALLUSTERS AND PIPE RAILING SPLICES SHALL BE ADEQUATELY WRAPPED TO ENSURE SURFACE PROTECTION DURING HANDLING AND TRANSPORTATION TO THE JOB SITE.
- WELDING OF GALVANIZED STEEL SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 6-03.3(25).
- ALLOW FOR EXPANSION AT APPROXIMATELY EVERY FOURTH POST.
- RAILS, POSTS, AND FORMED ELBOWS SHALL BE ASTM A53. BRACKETS, END CAPS AND OTHER FITTINGS SHALL BE ASTM A865. SPLICES AND REPAIRS SHALL BE GALVANIZED PER ASTM A760. SLEEVE I.D. SHALL BE GREATER THAN POSTS O.D.



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

Know what's below.
Call before you dig.

C:\pwworking\2024\1749K\CLRR_CP-13_14_23.dwg, CP-23, 11/28/2019 11:27:29 AM, KMCDONALD

SURVEY JOB NO./DATE:		FURNISH:	
CHECKED:		PROJECT No.	1112055
DATE ENTERED:	J. FRYE 11/27/18	CONTRACT No.	CD1415C20
DESIGNED:	R. McDONALD 11/27/18	REVISION BY DATE	
CHECKED:	B. MACEE 11/27/18		
SUPERVISOR:	S. JOHNSON 11/27/18		
NAME		RECORD CHANGES APPROVED BY DATE	

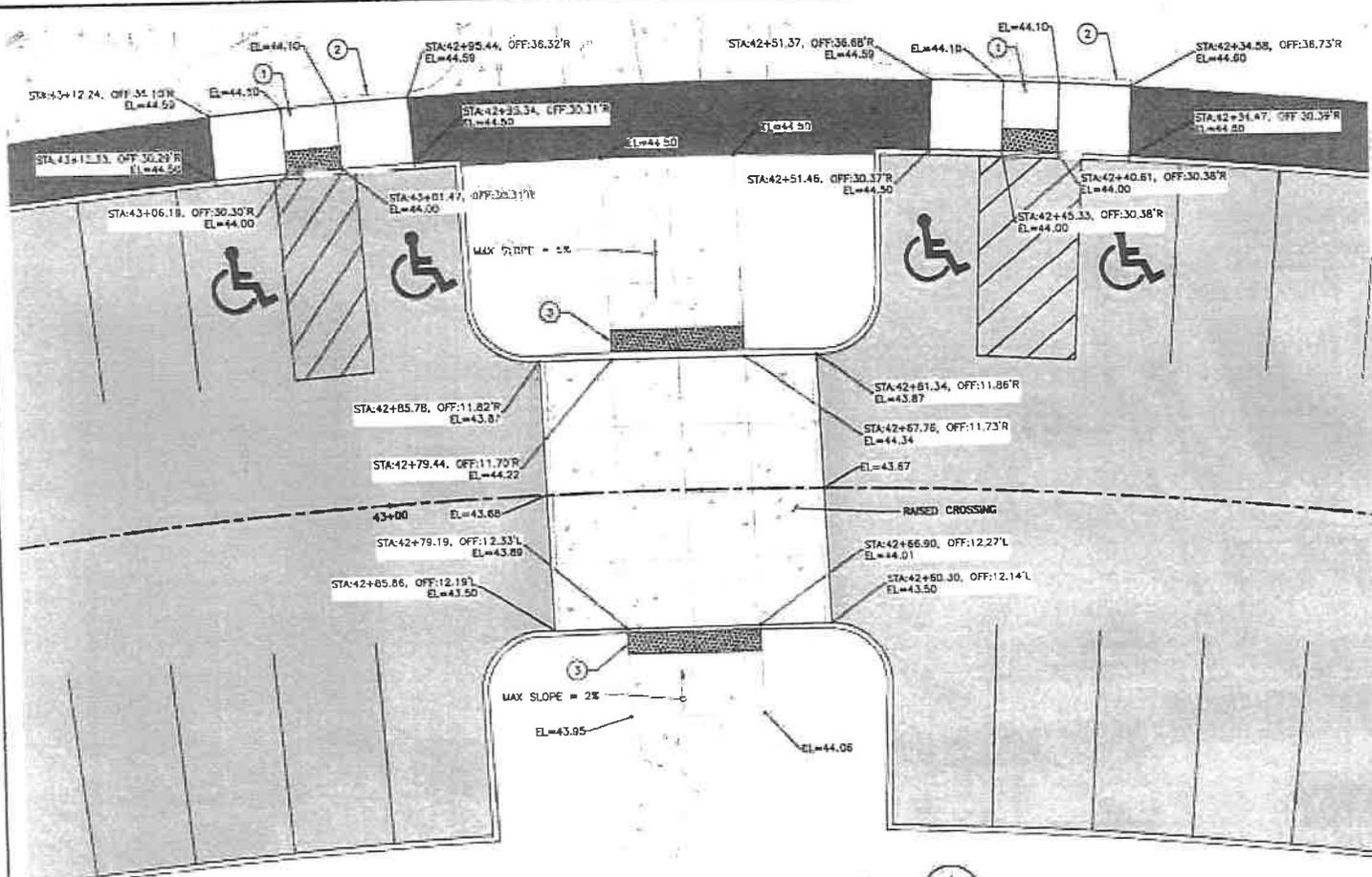


King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Chelsea Trust, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
SIGN SCHEDULE
AND HANDRAIL DETAIL**

SHEET CP-23

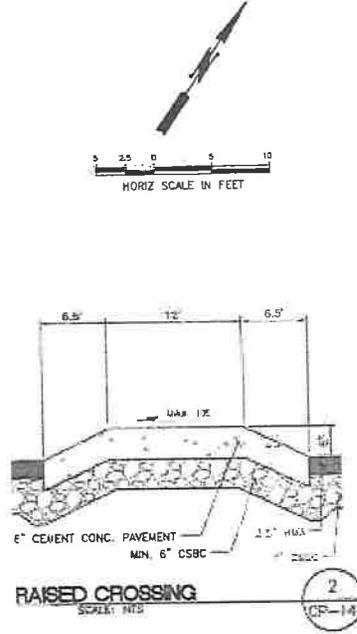
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WEST CROSSING AREA PLAN
SCALE: 1"=5'

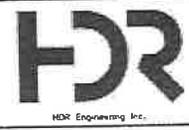
- NOTES:**
1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
 2. ELEVATIONS NEAR THE FACE OF CURB ARE PROVIDED AT FLOWLINE.

- CONSTRUCTION NOTES:**
1. CEMENT CONC. CURB RAMP TYPE PARALLEL A PER WSDOT STD. PLAN F-40.12-03
 2. CEMENT CONCRETE PEDESTRIAN CURB PER WSDOT STD. PLAN F-10.12-03
 3. DETECTABLE WARNING SURFACE PER WSDOT STD. PLAN F-45.10-02



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
Know what's below. Call before you dig.

SURVEY JOB NO./SOURCE:						PERMITS:	
CHECKED:	J. FRYC	11/27/10				PROJECT NO.:	1112056
DESIGNED:	B. MCCONALD	11/27/10				CONTRACT NO.:	CD1415C20
CHECKED:	B. WACE	11/27/10					
SUPERVISOR:	B. JOHNSON	11/27/10					
DATE:							
REVISIONS:							
	NO.	DESCRIPTION	DATE	BY	DATE		
TOTAL:		RECORD CHANGES APPROVED:		BY:	DATE:		



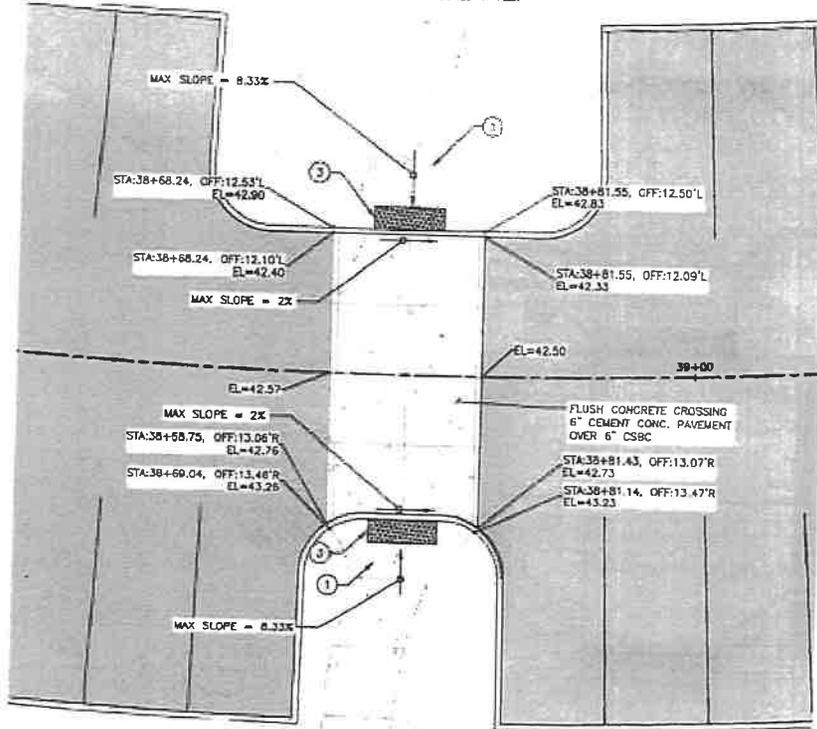
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
VAN DOREN'S PARK
PARKING LOT DETAILS
CURB RAMPS AND CURB CUTS

SHEET
CP-24

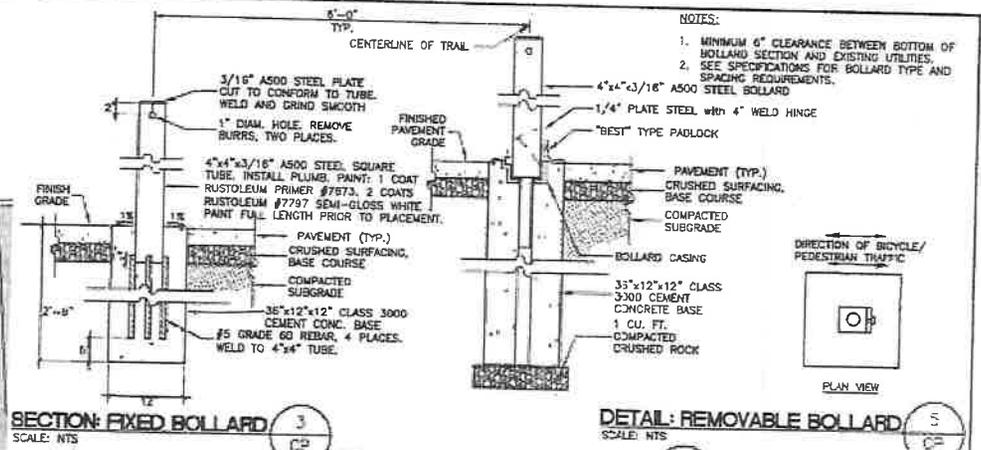
CONSTRUCTION NOTES:

- 1 CEMENT CONC. CURB RAMP TYPE PARALLEL A PER WSDOT STD. PLAN F-40.12-03
- 2 CEMENT CONCRETE PEDESTRIAN CURB PER WSDOT STD. PLAN F-10.12-03
- 3 DETECTABLE WARNING SURFACE PER WSDOT STD. PLAN F-45.10-02



EAST CROSSING AREA PLAN
SCALE: 1"=5'

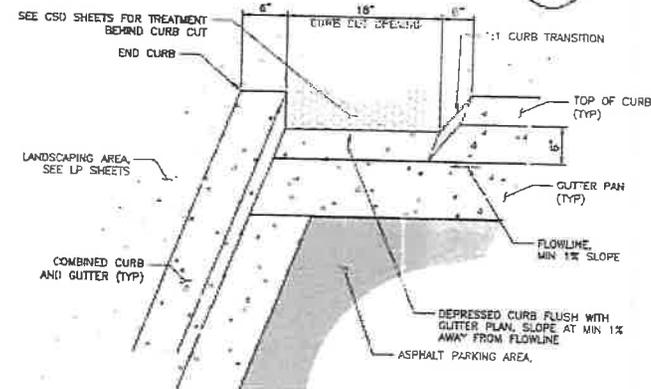
1
CP-14



SECTION: FIXED BOLLARD
SCALE: NTS

DETAIL: REMOVABLE BOLLARD
SCALE: NTS

SECTION: REMOVABLE BOLLARD
SCALE: NTS



TYPICAL CURB CUT DETAIL
SCALE: NTS

CURB CUT NOTES:

1. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN FEET
2. SEE SHEET CP-14 FOR CURB CUT LOCATIONS.

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-3555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

811
Know what's below.
Call before you dig.

SURVEY JOB NO./SOURCE:		FUNDING:	
CHECKED:		PROJECT No.	1112056
DIG DITCHED:	J. FRYE 11/27/19	CONTRACT No.	D01415C20
DESIGNED:	K. McDONALD 11/27/19	REV.	
CHECKED:	B. MAGEE 11/27/19	BY	
SUPERVISOR:	S. JOHNSON 11/27/19	DATE	
RECORD CHANGES APPROVED	BY	DATE	



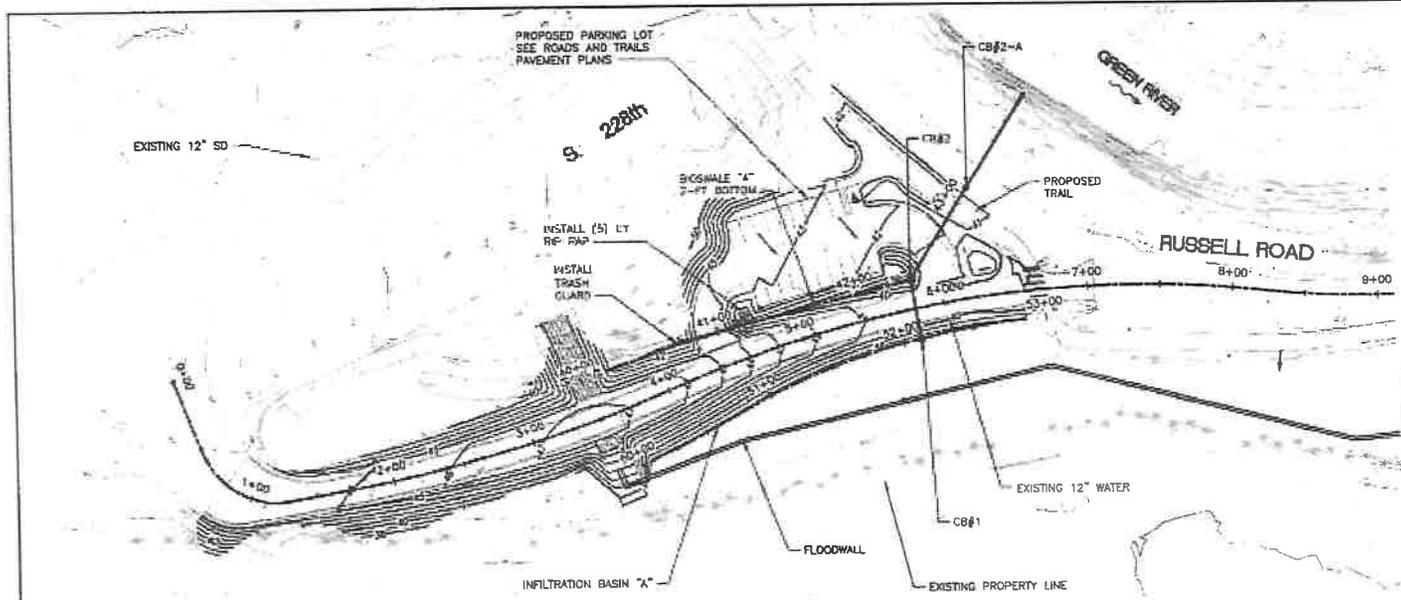
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christa True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PARKING LOT DETAILS
CURB RAMPS AND CURB CUTS

SHEET
CP-25

C:\working\issd\2041749\KCLR_CP-24_25.dwg, CP-25, 11/26/2019 1:02:17 PM, KMCDONALD

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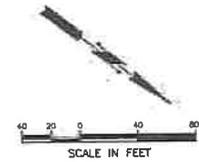
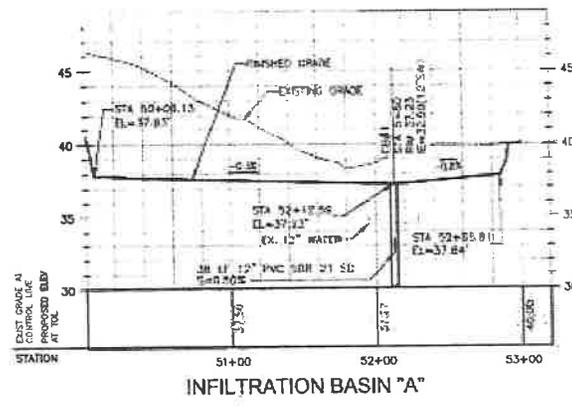
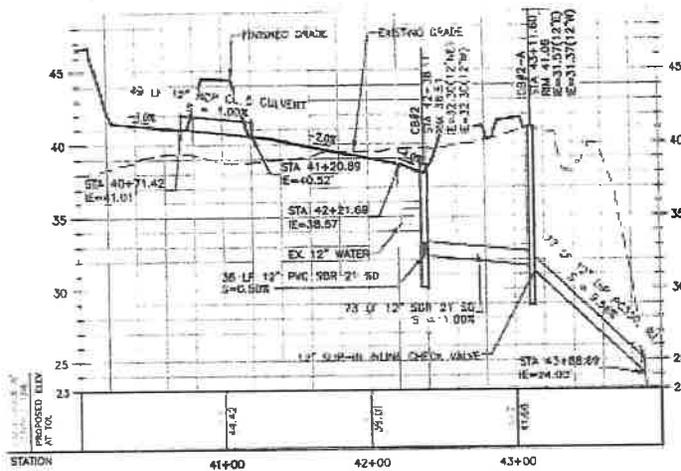


NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. SEE ROADS AND TRAILS PAVEMENT PLANS FOR ROADWAY DESIGN.
3. SEE HABITAT FEATURES AND SCOUR PROTECTION FOR HABITAT DETAILS.
4. DO NOT CONSTRUCT INFILTRATION AREAS AND CONSTRUCTED INFILTRATION SYSTEMS UNTIL THE CONTRIBUTING DRAINAGE AREA AND/OR ADJACENT CONSTRUCTION HAS BEEN COMPLETELY STABILIZED. WHEN THIS TIMING OF CONSTRUCTION IS NOT POSSIBLE, ENSURE SEDIMENT FROM EXPOSED SOIL AREAS OF THE PROJECT DOES NOT ENTER INTO THE INFILTRATION AREA OR SYSTEM.

STORM DRAIN STRUCTURE SCHEDULE

NAME	TYPE	NORTHING	EASTING	RIM ELEVATION	CASTING
CB#1	TYPE 1	147881.55	1283974.80	37.23	GRATE INLET
CB#2	TYPE 2	147851.69	1283947.59	38.51	GRATE INLET
CB#2-A	Type 2	147845.16	1283874.39	41.08	SOLID LID



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
Know what's below. Call before you dig.



SURVEY JOB HISTORY		REVISION	
CHECKED:	C. FRENCH 8/07/18	NO.	BY DATE
CAD INTERD:	C. FRENCH 8/07/18		
CHECKED:	J. GREY 8/07/18		
SUPERVISOR:	T. JOHNSON 8/07/18		
RECORD CHANGES APPROVED BY DATE			

PROJECT No. 1112058
CONTRACT No. C01415C20

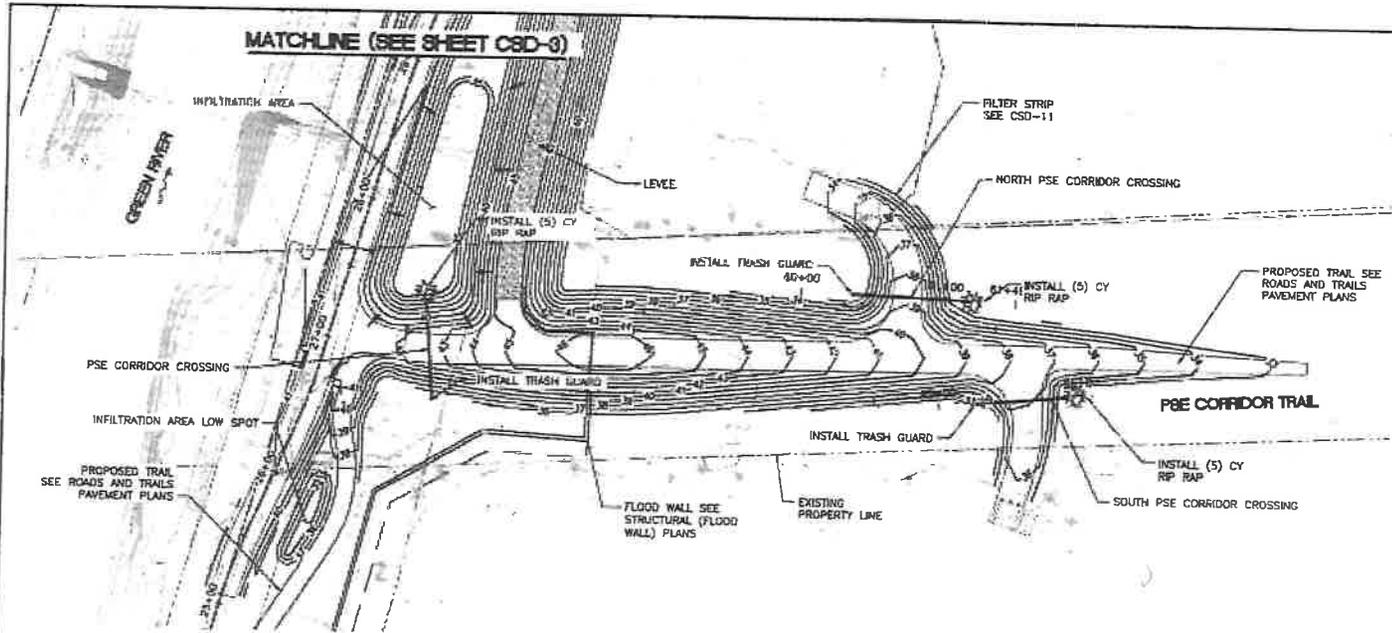


King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Chrise Trux, Director

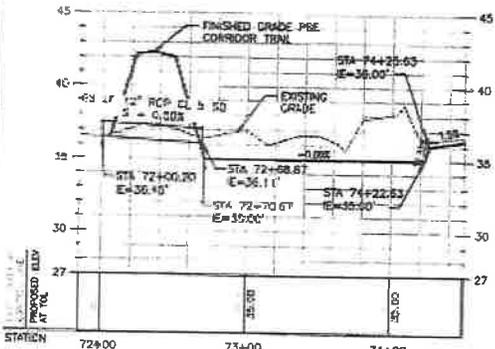
**LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
STORM DRAIN IMPROVEMENTS
PLAN AND PROFILE**
STA 0+00 TO 9+00

SHEET CSD-1

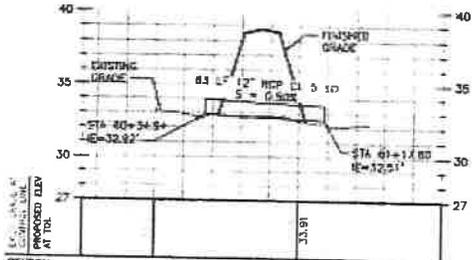
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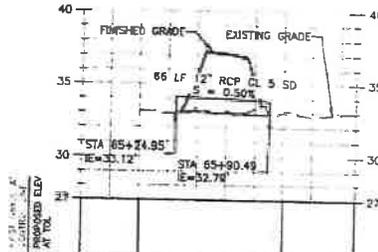
- NOTES:**
1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 2. SEE ROADS AND TRAILS PAVEMENT PLANS FOR ROADWAY DESIGN.
 3. SEE HABITAT FEATURES AND SCOUR PROTECTION FOR HABITAT DETAILS.
 4. SEE LEVEE PLANS FOR LEVEE DESIGN.
 5. DO NOT CONSTRUCT INFILTRATION AREAS AND CONSTRUCTED INFILTRATION SYSTEMS UNTIL THE CONTRIBUTING DRAINAGE AREA AND/OR ADJACENT CONSTRUCTION HAS BEEN COMPLETELY STABILIZED. WHEN THIS TIMING OF CONSTRUCTION IS NOT POSSIBLE, ENSURE SEDIMENT FROM EXPOSED SOIL AREAS OF THE PROJECT DOES NOT ENTER INTO THE INFILTRATION AREA OR SYSTEM.



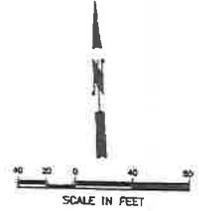
PSE CORRIDOR CROSSING



NORTH PSE CORRIDOR CROSSING



SOUTH PSE CORRIDOR CROSSING



CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 Know what's below. Call before you dig.

SURVEY JOB REFERENCE:		FUNDING:	
CHECKED:			
DATE:			
DESIGNED:	C. FRENCH 1/27/18	MAIL:	REVISION:
CHECKED:	J. GRIFIN 1/27/18	BY:	DATE:
SUPERVISOR:	T. JOHNSON 1/27/18	PROJECT No.:	1112056
		CONTRACT No.:	CO1415C20
MAIL:	RECORD CHANGES APPROVED:	BY:	DATE:

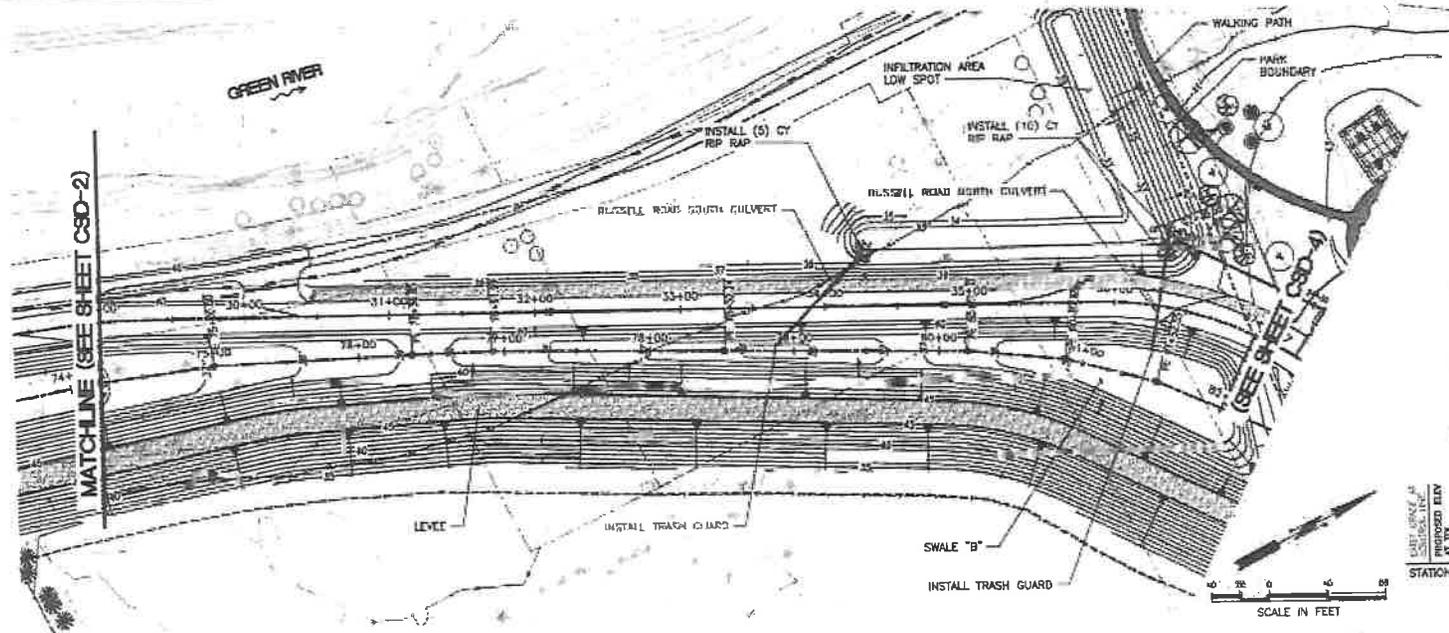


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christa Truss, Director

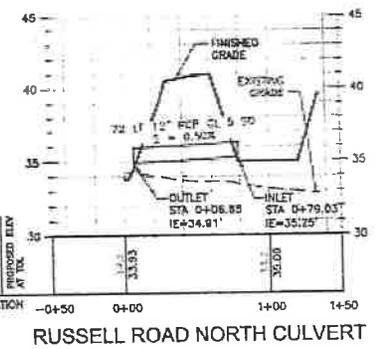
**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 STORM DRAIN IMPROVEMENTS
 PLAN AND PROFILE
 STA 25+00 TO 29+00
 STA 0+00 TO 7+50**

SHEET
CSD-2

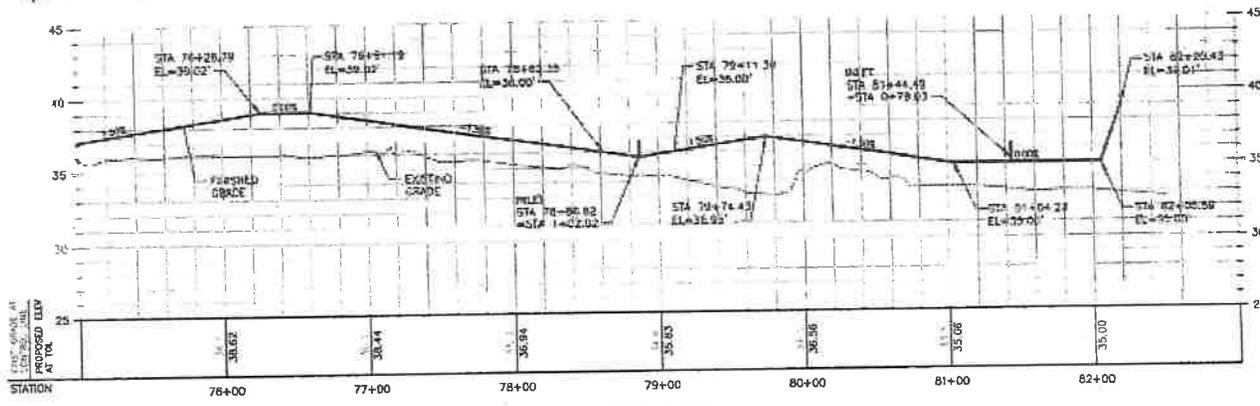
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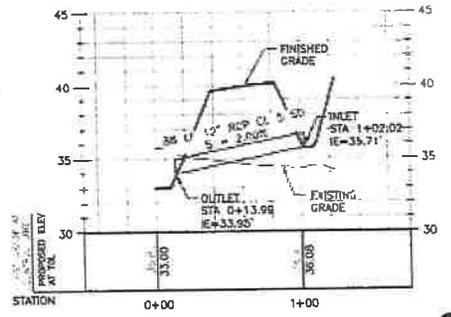
- NOTES:**
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 - SEE ROADS AND TRAILS PAVEMENT PLANS FOR ROADWAY DESIGN.
 - SEE HABITAT FEATURES AND SCOUR PROTECTION FOR HABITAT DETAILS.
 - SEE STRUCTURAL LEVEE PLANS FOR LEVEE DESIGN.
 - DO NOT CONSTRUCT INFILTRATION AREAS AND CONSTRUCTED INFILTRATION SYSTEMS UNTIL THE CONTRIBUTING DRAINAGE AREA AND/OR ADJACENT CONSTRUCTION HAS BEEN COMPLETELY STABILIZED. WHEN THIS TIMING OF CONSTRUCTION IS NOT POSSIBLE, ENSURE SEDIMENT FROM EXPOSED SOIL AREAS OF THE PROJECT DOES NOT ENTER INTO THE INFILTRATION AREA OR SYSTEM.



RUSSELL ROAD NORTH CULVERT



SWALE "B"



RUSSELL ROAD SOUTH CULVERT

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
 Know what's below. Call before you dig.



SURVEY JOB NO./SUBJECT: CHECKED: CAD ENTERED: C. FRENCH 8/27/18 DESIGNED: C. FRENCH 8/27/18 CHECKED: J. GRIFFIN 8/27/18 SUPERVISOR: T. JOHNSON 8/27/18	FUNDING: PROJECT No. 1112058 CONTRACT No. C01415C20
M.N. REVISION BY DATE RECORD CHANGES APPROVED BY DATE	

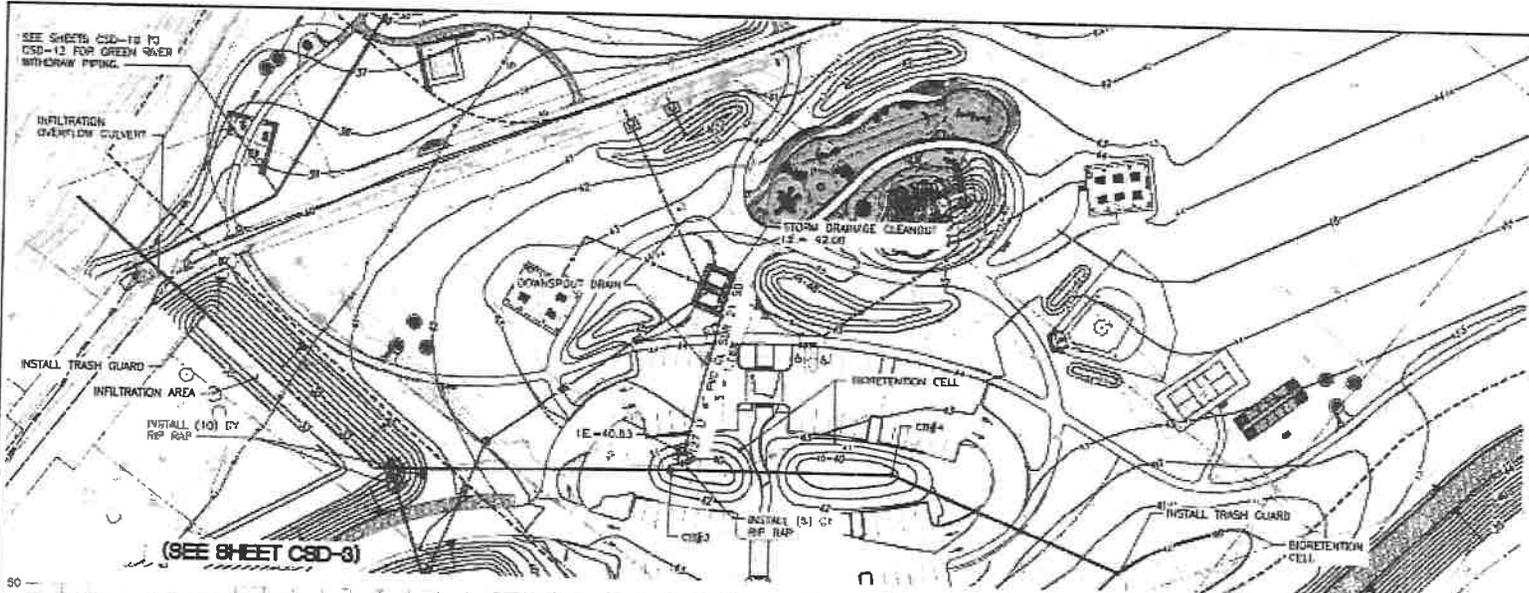


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chrisa Tron, Director

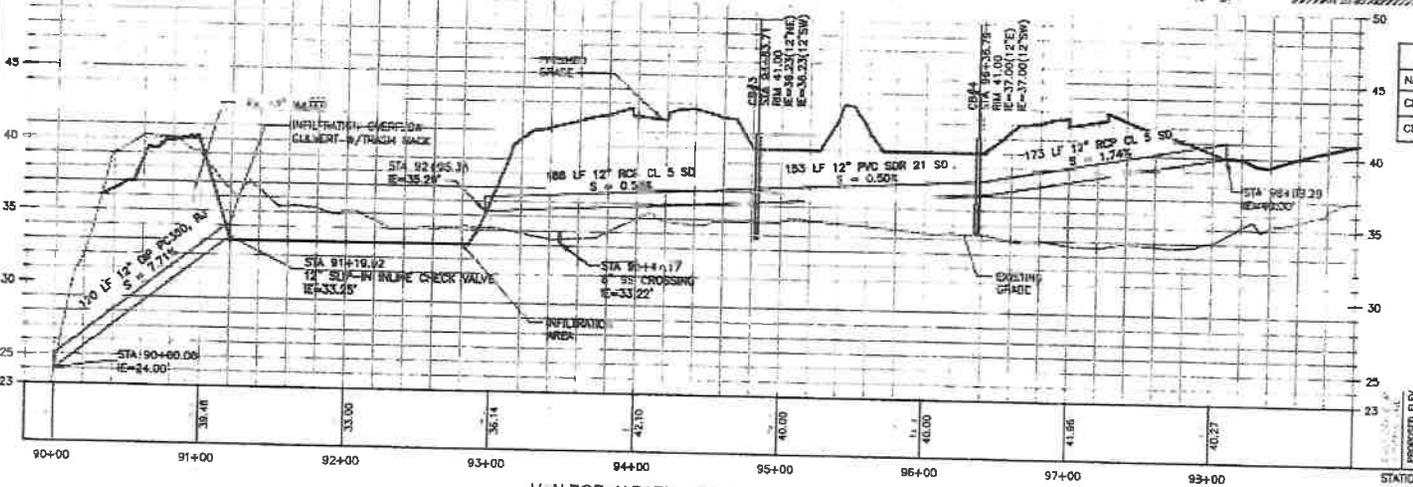
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
STORM DRAIN IMPROVEMENTS
PLAN AND PROFILE
 STA 29+00 TO 37+00

SHEET CSD-3

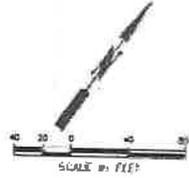
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- NOTES:
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 - SEE ROADS AND TRAILS PAVEMENT PLANS FOR ROADWAY DESIGN.
 - SEE HABITAT FEATURES AND SCOUR PROTECTION FOR HABITAT DETAILS.
 - SEE STRUCTURAL LEVEL PLANS FOR LEVEL DESIGN.
 - SEE SHEET CSD-9 FOR TYPICAL BIORETENTION CELL SECTION.
 - SEE SHEET CSD-9 FOR DOWNSPOUT CONNECTION AND STORM DRAINAGE CLEANOUT DETAILS.
 - DO NOT CONSTRUCT INFILTRATION AREAS AND CONSTRUCTED INFILTRATION SYSTEMS UNTIL THE CONTRIBUTING DRAINAGE AREA AND/OR ADJACENT CONSTRUCTION HAS BEEN COMPLETELY STABILIZED. WHEN THIS TIMING OF CONSTRUCTION IS NOT POSSIBLE, ENSURE SEDIMENT FROM EXPOSED SOIL AREAS OF THE PROJECT DOES NOT ENTER INTO THE INFILTRATION AREA OR SYSTEM.



STORM DRAIN STRUCTURE SCHEDULE					
NAME	TYPE	NORTHING	EASTING	RIM ELEVATION	CASTING
CB#3	TYPE 2	1505399.96	1284164.71	41.00	BEEHIVE GRATE
CB#4	TYPE 1	150689.36	1284288.96	41.00	BEEHIVE GRATE



SURVEY JOB HISTORY			
NO.	DATE	BY	REVISION
1	8/21/18	C. FRENCH	
2	8/21/18	C. FRENCH	
3	8/21/18	A. CRIFIN	
4	8/21/18	T. JOHNSON	

FILING			
PROJECT NO.	CONTRACT NO.	DATE	BY
1112056	CD141SC20		



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christa Trus, Director

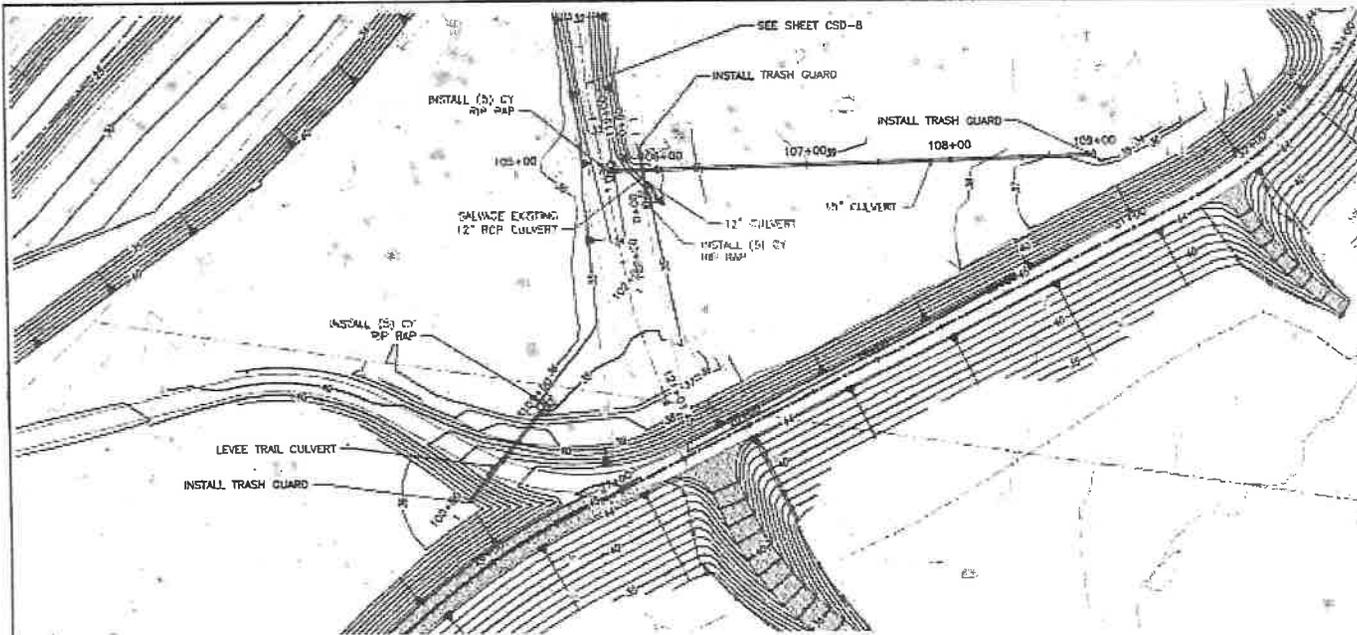
CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS SEE APPENDIX)

Know what's below.
 Call before you dig.



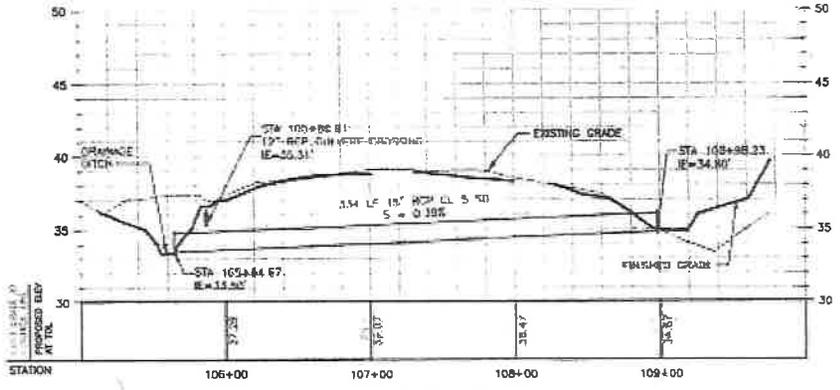
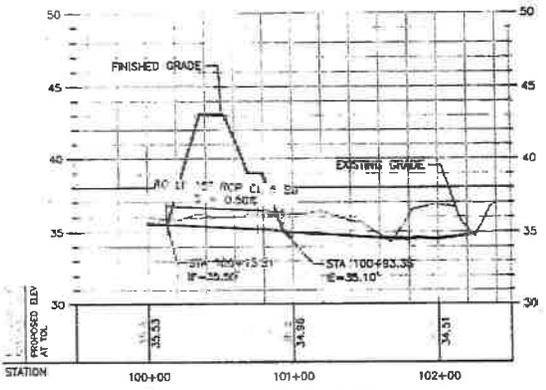
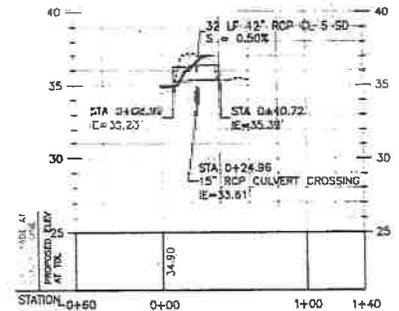
**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 STORM DRAIN IMPROVEMENTS
 PLAN AND PROFILE**

SHEET
CSD-4

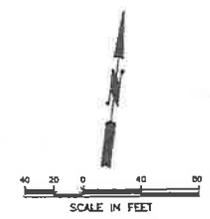


NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
2. SEE ROADS AND TRAILS PAVEMENT PLANS FOR ROADWAY DESIGN.
3. SEE HABITAT FEATURES AND SCOUR PROTECTION FOR HABITAT DETAILS.
4. SEE STRUCTURAL LEVEE PLANS FOR LEVEE DESIGN.
5. DO NOT CONSTRUCT INFILTRATION AREAS AND CONSTRUCTED INFILTRATION SYSTEMS UNTIL THE CONTRIBUTING DRAINAGE AREA AND/OR ADJACENT CONSTRUCTION HAS BEEN COMPLETELY STABILIZED. WHEN THIS TIMING OF CONSTRUCTION IS NOT POSSIBLE, ENSURE SEDIMENT FROM EXPOSED SOIL AREAS OF THE PROJECT DOES NOT ENTER INTO THE INFILTRATION AREA OR SYSTEM.



12" CULVERT



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
Know what's below. Call before you dig.

SURVEY JOB NO./SUBJECT		FUNDING	
CHECKED:		PROJECT NO.	1112058
CAD INTERFER:	C. FRENCH 8/27/18	CONTRACT NO.	C01415C20
DESIGNED:	C. FRENCH 8/27/18	REV.	
CHECKED:	A. CRIFIN 8/27/18	BY	
SUPERVISOR:	T. JOHNSON 8/27/18	DATE	
RECORD CHANGES APPROVED BY		DATE	



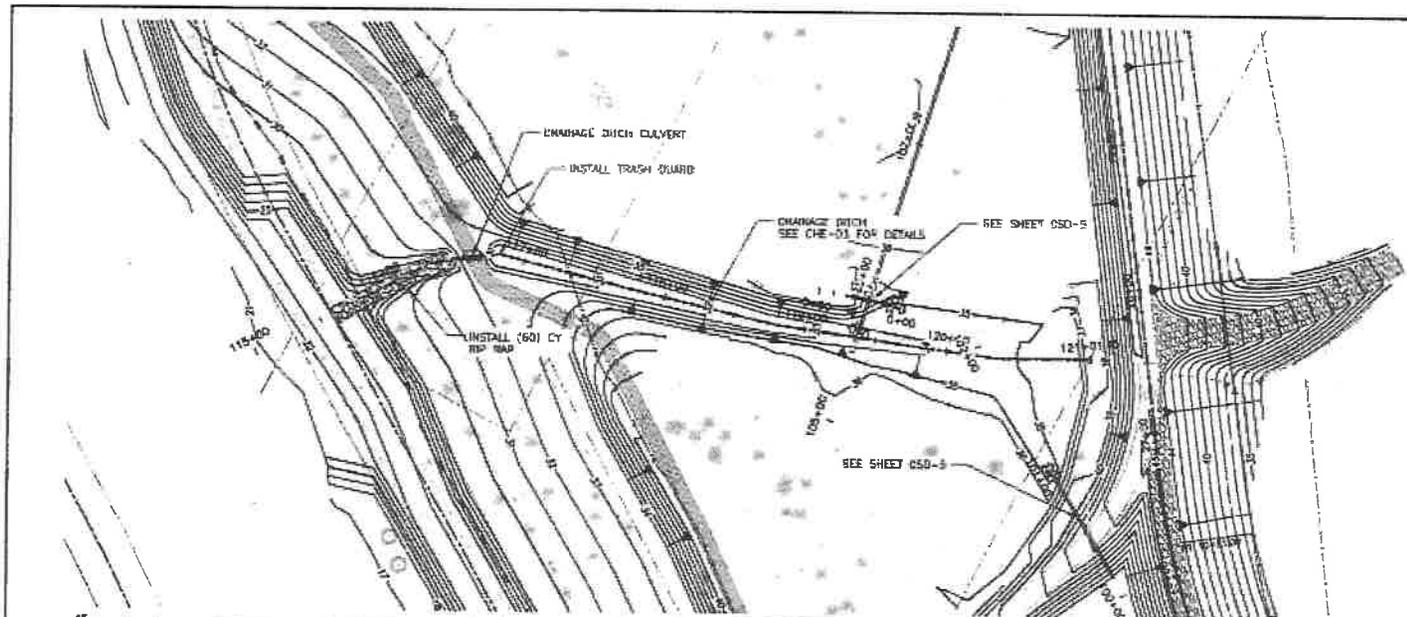
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Toes, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
STORM DRAIN IMPROVEMENTS
PLAN AND PROFILE

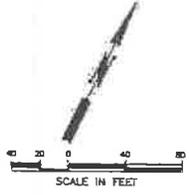
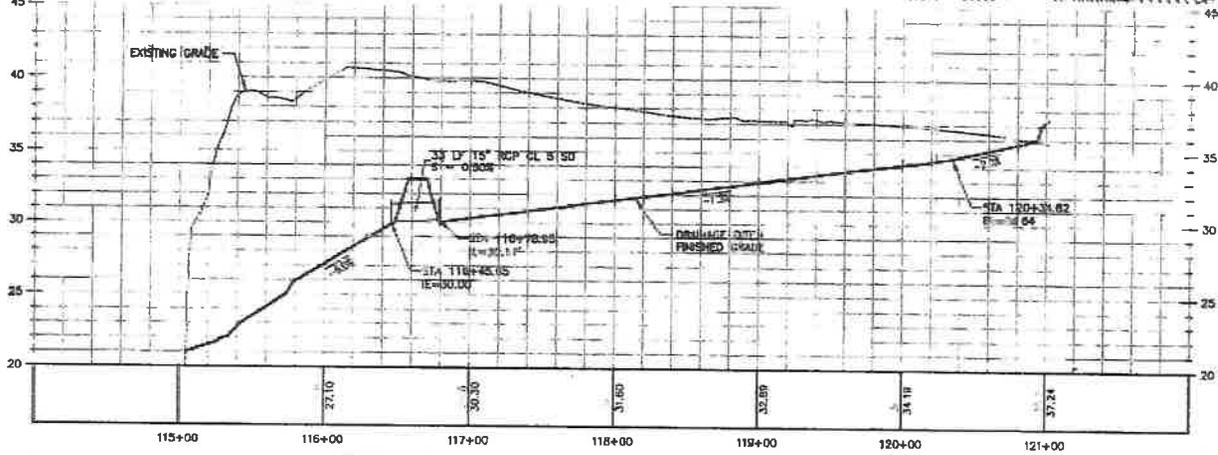
SHEET
CSD-5

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- NOTES:**
1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
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 4. SEE STRUCTURAL LEVEE PLANS FOR LEVEE DESIGN.
 5. DO NOT CONSTRUCT INFILTRATION AREAS AND CONSTRUCTED INFILTRATION SYSTEMS UNTIL THE CONTRIBUTING DRAINAGE AREA AND/OR ADJACENT CONSTRUCTION HAS BEEN COMPLETELY STABILIZED. WHEN THIS TIMING OF CONSTRUCTION IS NOT POSSIBLE, ENSURE SEDIMENT FROM EXPOSED SOIL AREAS OF THE PROJECT DOES NOT ENTER INTO THE INFILTRATION AREA OR SYSTEM.



DRAINAGE DITCH CULVERT

DATE	REVISION	BY	DATE

PLANNING: _____
 PROJECT No. **1112958**
 CONTRACT No. **C01415C20**



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christa Truss, Director

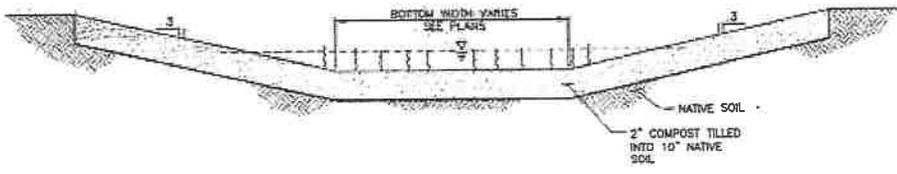
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND AND UTILITY LOCATIONS ARE APPROXIMATE)

811
 Know what's below.
 Call before you dig.

**LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 STORM DRAIN IMPROVEMENTS
 PLAN AND PROFILE**

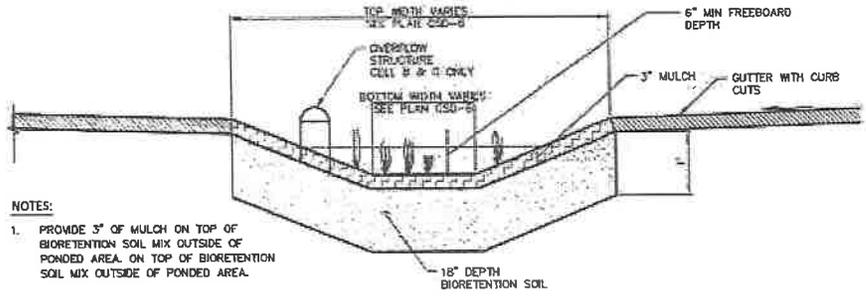
SHEET
CSD-6

C:\pwworking\98042041749XCLRR_CSD-7.dwg, KCLRR_CSD-7, 11/29/2019 4:40:03 PM, CFRIENCH



TYPICAL BIOSWALE CROSS SECTION

NTS
SEE SHEET CSD-1

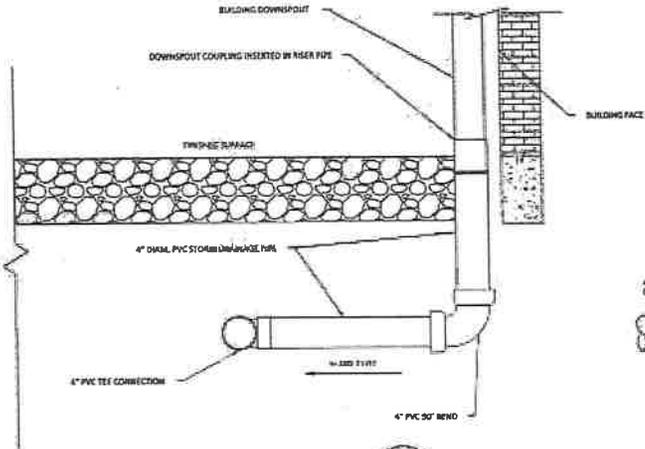


NOTES:

1. PROVIDE 3" OF MULCH ON TOP OF BIORETENTION SOIL MIX OUTSIDE OF PONDED AREA. ON TOP OF BIORETENTION SOIL MIX OUTSIDE OF PONDED AREA.

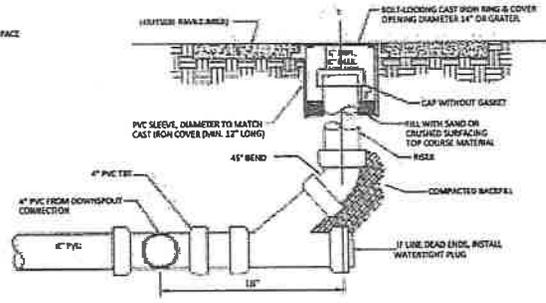
BIORETENTION CELL SECTION

NTS
SEE SHEET CSD-6



DOWNSPOUT CONNECTION

NTS
SEE SHEET CSD-6



STORM DRAINAGE CLEANOUT

NTS
SEE SHEET CSD-6



**CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555**
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

**Know what's below.
Call before you dig.**

DATE	BY	REVISION

FUNDING	
PROJECT No.	1112058
CONTRACT No.	001415C20

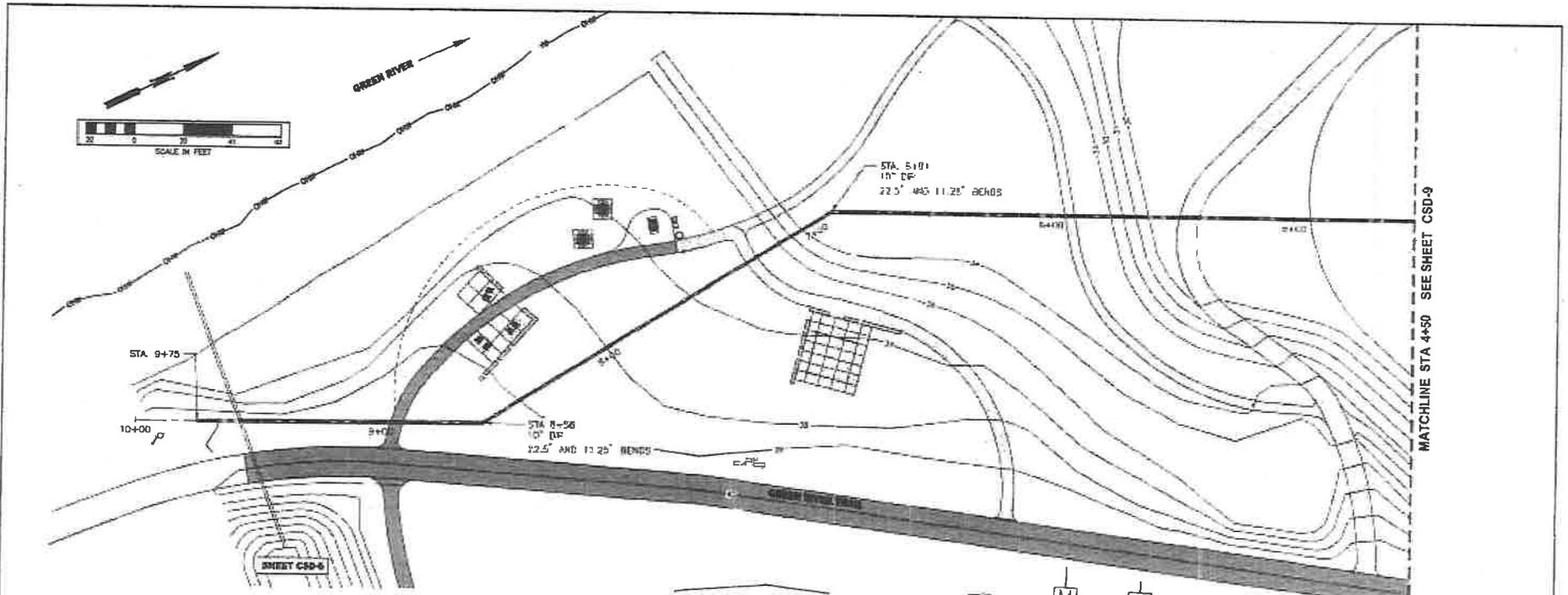


King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Chistie True, Director

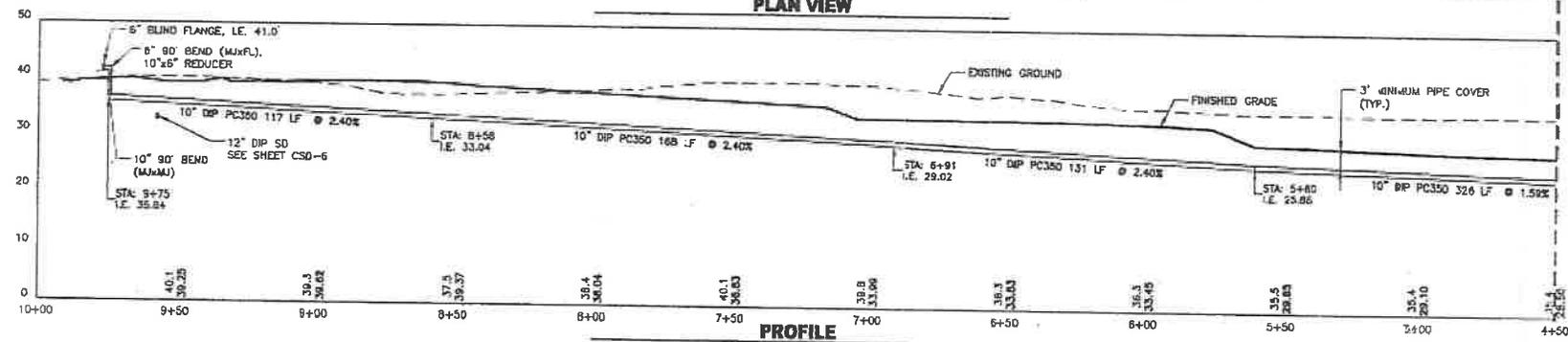
**LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
STORM DETAILS**

SHEET
CSD-7

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PLAN VIEW



PROFILE



Know what's below.
Call before you dig.
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

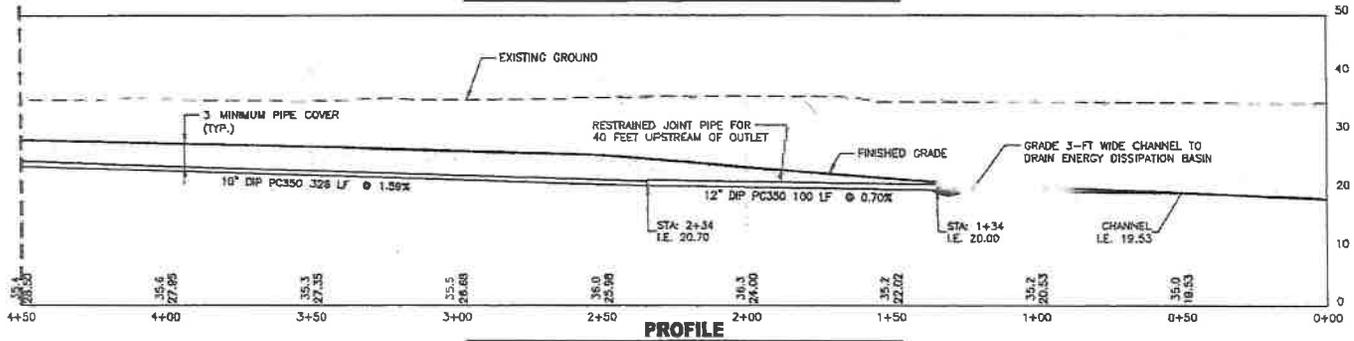
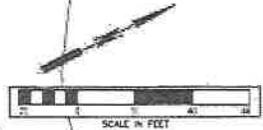
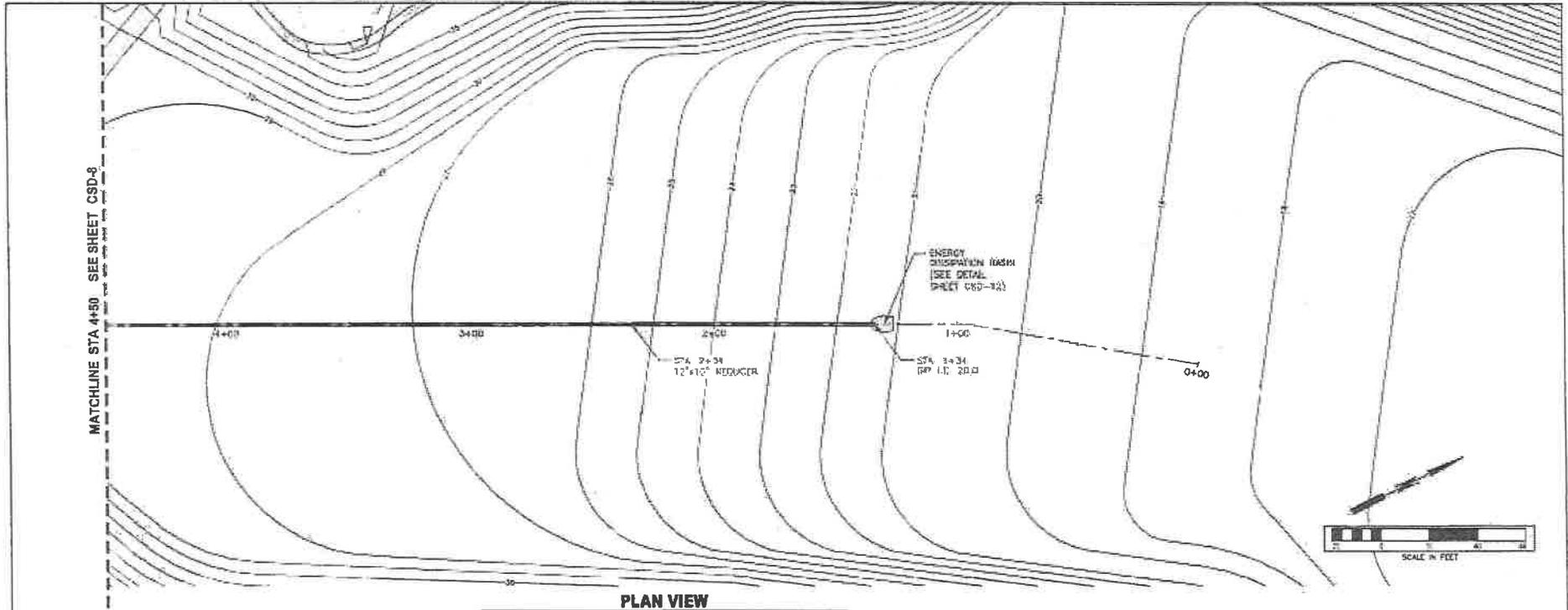
SURVEY JOB NO./REVISION:		REVISION:	
CHECKED:		PROJECT No.	1112058
DESIGNED BY:	K. KITAKURA 11/2018	CONTRACT No.	C01415C20
DESIGNED BY:	ERIK PETERS, P.E. 11/2018	DATE	
CHECKED BY:	ERIK PETERS, P.E. 11/2018	RECORD CHANGES APPROVED BY:	
SUPERVISOR:	LORIN REDMIST, P.E. 11/2018	DATE	



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Trive, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2**
GREEN RIVER WITHDRAW PIPING

SHEET
CSD-8



Know what's below.
Call before you dig.
(UNRECORDED UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./SHEET:				
CHECKED:	K. KITAMURA	11/2019		
DATE ENTERED:	ERIK PETERS, P.E.	11/2019		
DESIGNED:	ERIK PETERS, P.E.	11/2018		
CHECKED:	LORIN REMELT, P.E.	11/2018		
SUPERVISOR:				
	RECORD CHANGES APPROVED BY DATE			

Project No. 1112056
Contract No. C01415C20



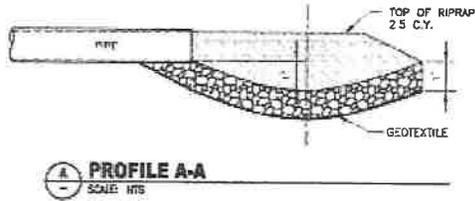
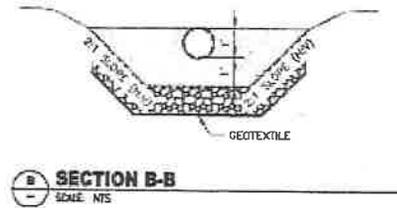
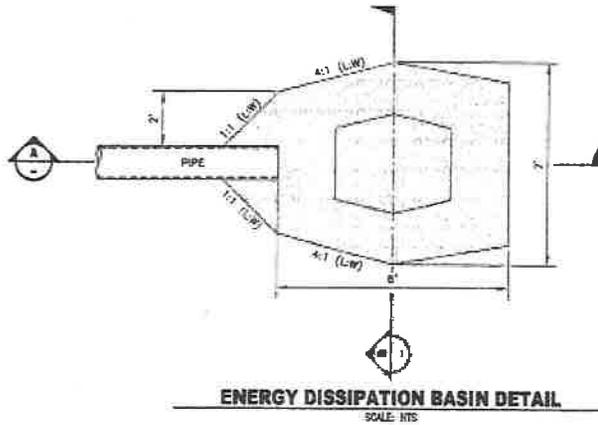
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2

GREEN RIVER WITHDRAW PIPING

SHEET
CSD-9

I:\1-RIVERS CAD SUPPORT\LowRusselLevee\PHASE_2\2_LRR_CSD.dwg, 11/25/2019 3:02:00 PM, bluebeam PDF_300dpi.pc3



Know what's below.
Call before you dig.
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

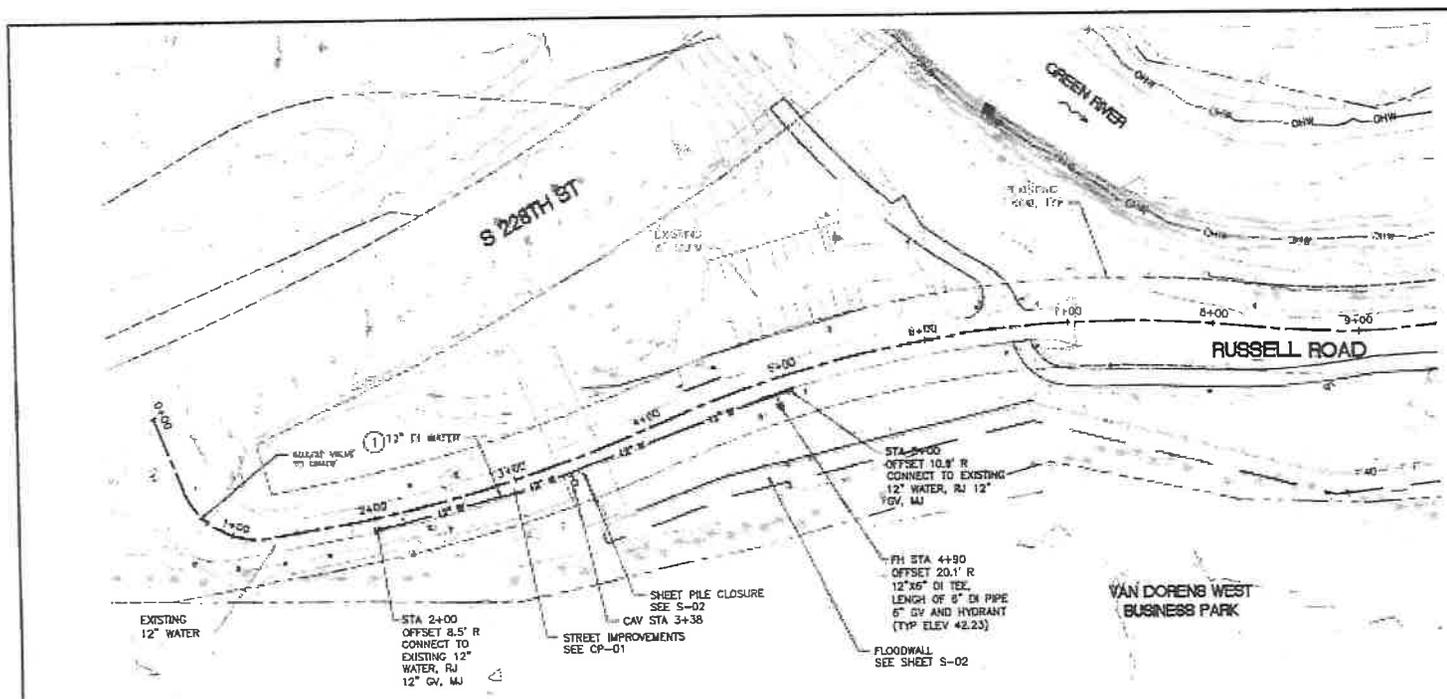
SURVEY JOB NO./SOURCE:		FUNDING:	
CHECKED:			
DATE ENTERED:	K. KITAHARA 11/2019	PROJECT No.	1112056
CHECKED:	ERIK PETERS, P.E. 11/2019	CONTRACT No.	C01415C20
CHECKED:	ERIK PETERS, P.E. 11/2019		
SUPERVISOR:	LORIN REHELT, P.E. 11/2019		
RECORD CHANGES APPROVED BY:			



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

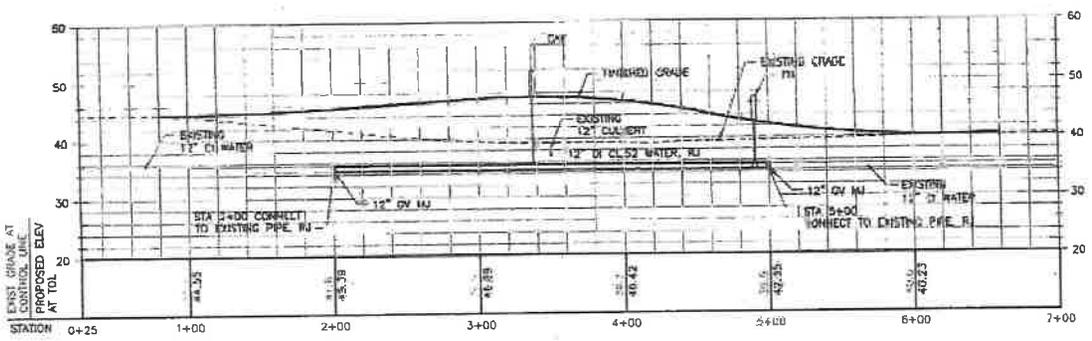
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
GREEN RIVER WITHDRAW PIPING DETAILS

SHEET
CSD-10

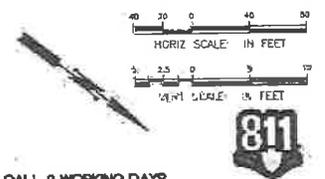


- WATER UTILITY NOTES:**
- FOR WATER UTILITIES USE THE FOLLOWING CITY OF KENT STANDARD PLANS. SEE SPECIFICATIONS FOR REFERENCE.
- | STANDARD PLAN | TITLE |
|---------------|---|
| 3-1 | STANDARD FIRE HYDRANT |
| 3-3 | GUARD POST |
| 3-4 | VALVE MARKER POST |
| 3-7 | VALVE BOX AND OPERATING NUT EXTENDER |
| 3-9 | CONCRETE BLOCKING |
| 3-10 | SERVICE CONNECTION 1" SERVICE |
| 3-11 | SERVICE CONNECTION 1 1/2" & 2" SERVICE |
| 3-13 | PRESSURE REDUCING VALVE WITH BOX FOR 3/4", 1", 1-1/2" OR 2" SERVICE LINES |
| 3-14 | DOMESTIC SERVICE CONNECTION PREMISE ISOLATION |
| 3-15 | IRRIGATION SERVICE INSTALLATION |
| 3-20 | COMBINATION AIR/VACUUM VALVE AND VAULT |
| 3-21 | TAPPING SLEEVE AND VALVE ASSEMBLIES |
- SEE SECTION 31 23 33 FOR TRENCHING AND BACKFILL REQUIREMENTS.

- CONSTRUCTION NOTES:**
- PROVIDE TEMPORARY SERVICE LINES TO MAINTAIN CONTINUOUS SERVICE AND TO ACCOMMODATE CONSTRUCTION.



- SHEET NOTES:**
- EXISTING UTILITY LOCATIONS AND DEPTHS ARE ESTIMATED. CONTRACTOR TO FIELD VERIFY ALL UTILITY LOCATIONS AS NEEDED.
 - MAINTAIN MINIMUM 3'-0" COVER FOR ALL WATER LINES.
 - FOR WATER SERVICES THAT AFFECT FIRE PROTECTION SERVICES, NOTIFY THE KENT FIRE DEPARTMENT OF ANY OUTAGES.



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-8666
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
 Know what's below. Call before you dig.

SURVEY JOB INFORMATION		REVISION		BY		DATE	
CREATED:	JTC 11/19						
CHD ENTERED:	AE 11/19						
CHECKED:	MB 11/19						
SUPERVISOR:	SS 11/19						
NUM.		RECORD CHANGES APPROVED		BY		DATE	

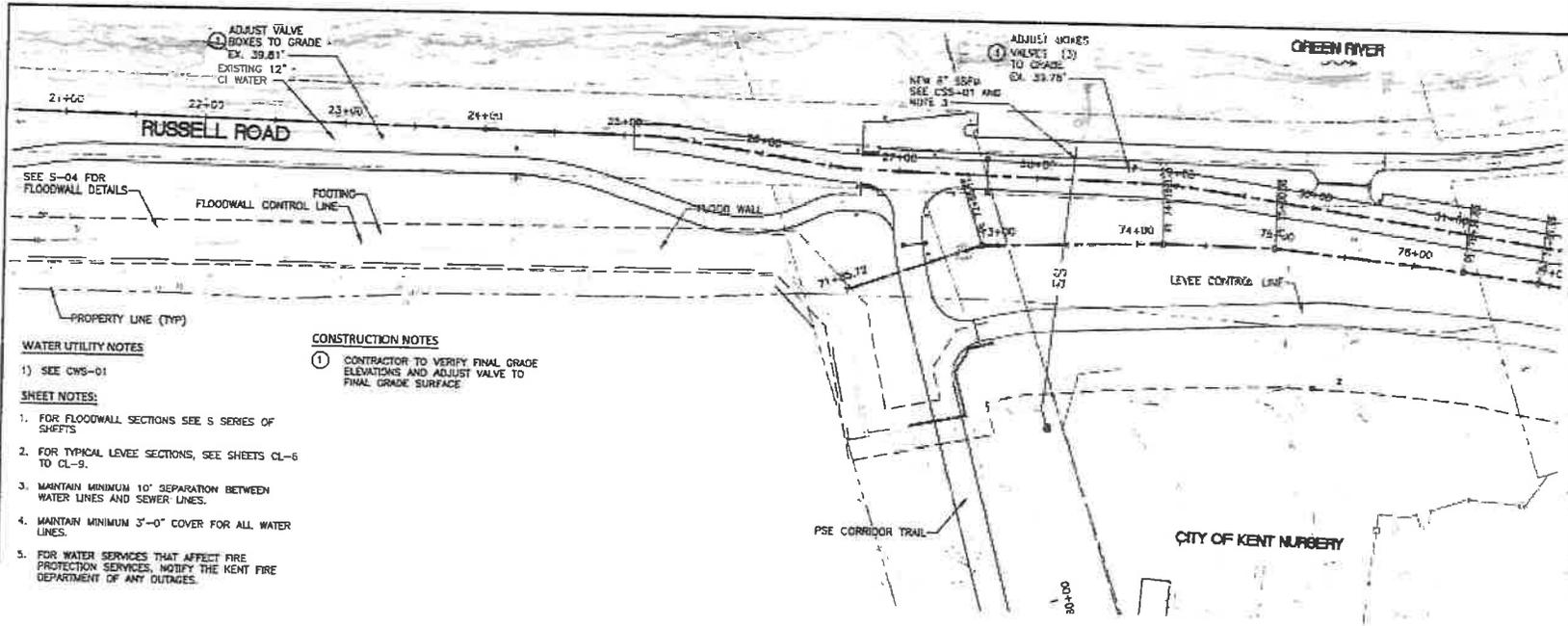
PLUMBING:
 PROJECT No. 1112058
 CONTRACT No. C0141SC20



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Truss, Director

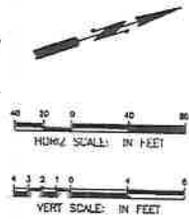
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2 WATER
PLAN AND PROFILE
 STA 0+00 TO 7+00

SHEET
CWS-01



Know what's below.
Call before you dig.

CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)



WATER UTILITY NOTES

1) SEE CWS-01

SHEET NOTES:

1. FOR FLOODWALL SECTIONS SEE S SERIES OF SHEETS
2. FOR TYPICAL LEVEE SECTIONS, SEE SHEETS CL-6 TO CL-9.
3. MAINTAIN MINIMUM 10' SEPARATION BETWEEN WATER LINES AND SEWER LINES.
4. MAINTAIN MINIMUM 3'-0" COVER FOR ALL WATER LINES.
5. FOR WATER SERVICES THAT AFFECT FIRE PROTECTION SERVICES, NOTIFY THE KENT FIRE DEPARTMENT OF ANY OUTAGES.

CONSTRUCTION NOTES

① CONTRACTOR TO VERIFY FINAL GRADE ELEVATIONS AND ADJUST VALVE TO FINAL GRADE SURFACE

SURVEY JOB NO./DATE:	
DESIGNED:	JTC 11/19
DATE EXTENDED:	AE 11/19
DRAWN:	MB 11/19
CHECKED:	SS 11/19
SUPERVISOR:	

DATE	BY	REVISION

FUNDING:	
PROJECT No.	1112056
CONTRACT No.	C01415C20



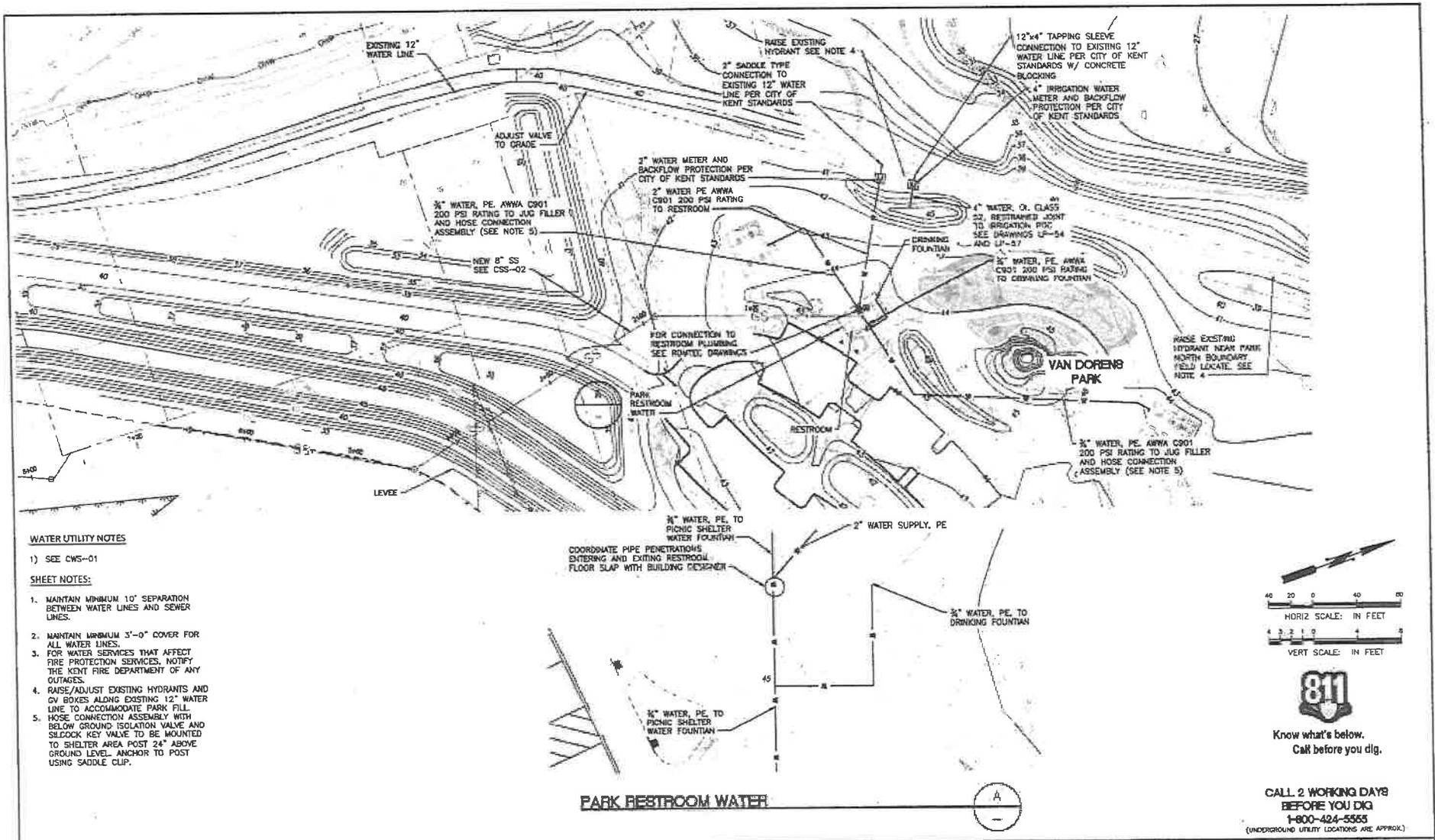
11/27/19



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Chelsea True, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
WATER
PLAN AND PROFILE**
TIAA-CREF AND CITY OF KENT
NURSERY WATER SERVICE

SHEET
CWS-02

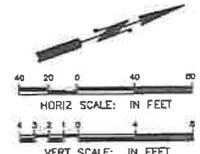


WATER UTILITY NOTES

1) SEE CWS-01

SHEET NOTES:

1. MAINTAIN MINIMUM 10" SEPARATION BETWEEN WATER LINES AND SEWER LINES.
2. MAINTAIN MINIMUM 3"-0" COVER FOR ALL WATER LINES.
3. FOR WATER SERVICES THAT AFFECT FIRE PROTECTION SERVICES, NOTIFY THE KENT FIRE DEPARTMENT OF ANY OUTAGES.
4. RAISE/ADJUST EXISTING HYDRANTS AND GV BOXES ALONG EXISTING 12" WATER LINE TO ACCOMMODATE PARK FILL HOSE CONNECTION ASSEMBLY WITH BELOW GROUND ISOLATION VALVE AND SILDcock KEY VALVE TO BE MOUNTED TO SHELTER AREA POST 24" ABOVE GROUND LEVEL. ANCHOR TO POST USING SADDLE CLIP.



Know what's below.
Call before you dig.

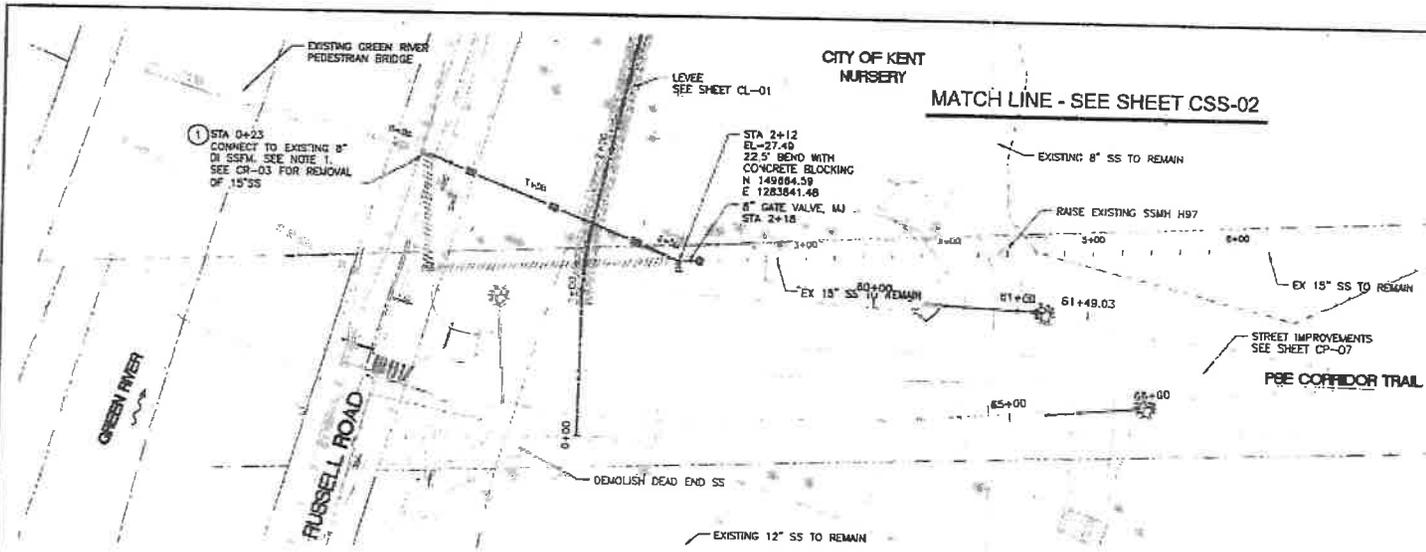
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

SURVEY JOB NO./SUBJOB:		FLUSHING:	
CHECKED:		PROJECT No.:	1112056
DATE ENTERED:	JTG 11/19	CONTRACT No.:	C01415C20
DESIGNED:	AE 11/19		
CHECKED:	MB 11/19		
SUPERVISOR:	SS 11/19		
	RECORD CHANGES APPROVED	BY	DATE



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
WATER
PLAN
VAN DORENS
PARK
SHEET
CWS-03



SEWER UTILITY NOTES:

- 1) FOR SEWER UTILITIES USE THE FOLLOWING CITY OF KENT STANDARD PLANS. SEE SPECIFICATIONS FOR REFERENCE.

STANDARD PLAN	TITLE
3-3	CONCRETE BLOCKING
4-1	MANHOLE TYPE 1 48" & 54"
WSDOT 8-30.70-03	CIRCULAR FRAME (RING) AND COVER
4-5	MANHOLE GRADE, RING, SAFETY STEPS & LADDER
- 2) SEE SECTION 31 23 33 FOR TRENCHING AND BACKFILL REQUIREMENTS.

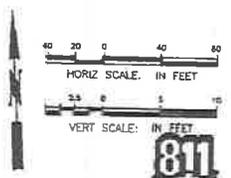
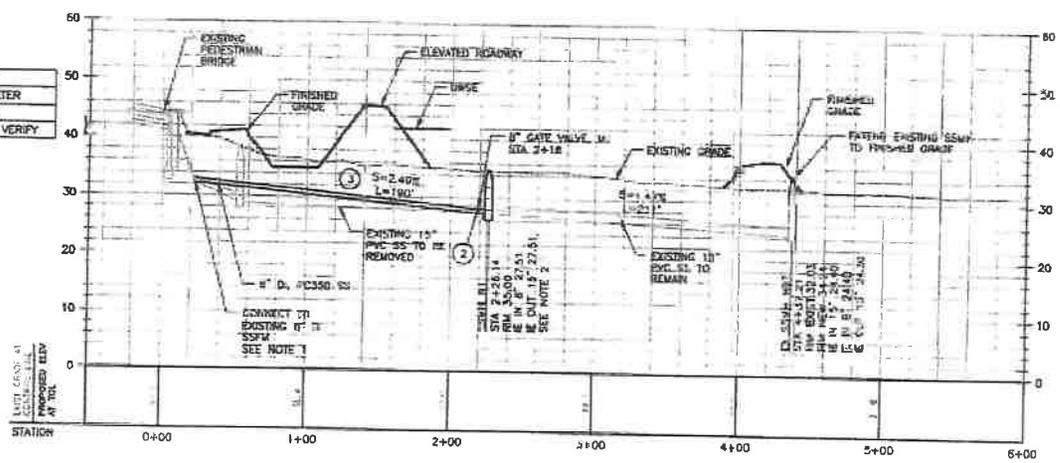
NOTES:

1. CONNECT TO EXISTING 8" DI SS USING RESTRAINED COUPLING.
2. INSTALL NEW SSMH ALONG EXISTING 15" SS.
3. EXISTING UTILITY LOCATIONS AND DEPTHS ARE ESTIMATED, CONTRACTOR TO FIELD VERIFY ALL UTILITY LOCATIONS AS NEEDED.
4. 3' COVER MINIMUM FROM FINISHED GRADE TO TOP OF SEWER MAIN
5. SEE CSD SHEETS FOR DRAINAGE INFORMATION

CONSTRUCTION NOTES:

- 1) EXISTING 8" SSMH NOT CURRENTLY IN SERVICE
- 2) WATER TIGHT PIPE CONNECTION AND CONCRETE CHANNELING
- 3) INSTALL PIPE JOINT AT CENTER OF LEVEE, WITH 8" CROWN. CROWN TO BE MEASURED FROM HIGHEST PIPE ELEVATION MEASURED 40' HORIZONTALLY FROM CENTER OF LEVEE.

MANHOLE SCHEDULE	
MH #	MH DIAMETER
SSMH N1	4'-0"
SSMH E1	4'-0" FIELD VERIFY



CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5558
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
 Know what's below. Call before you dig.

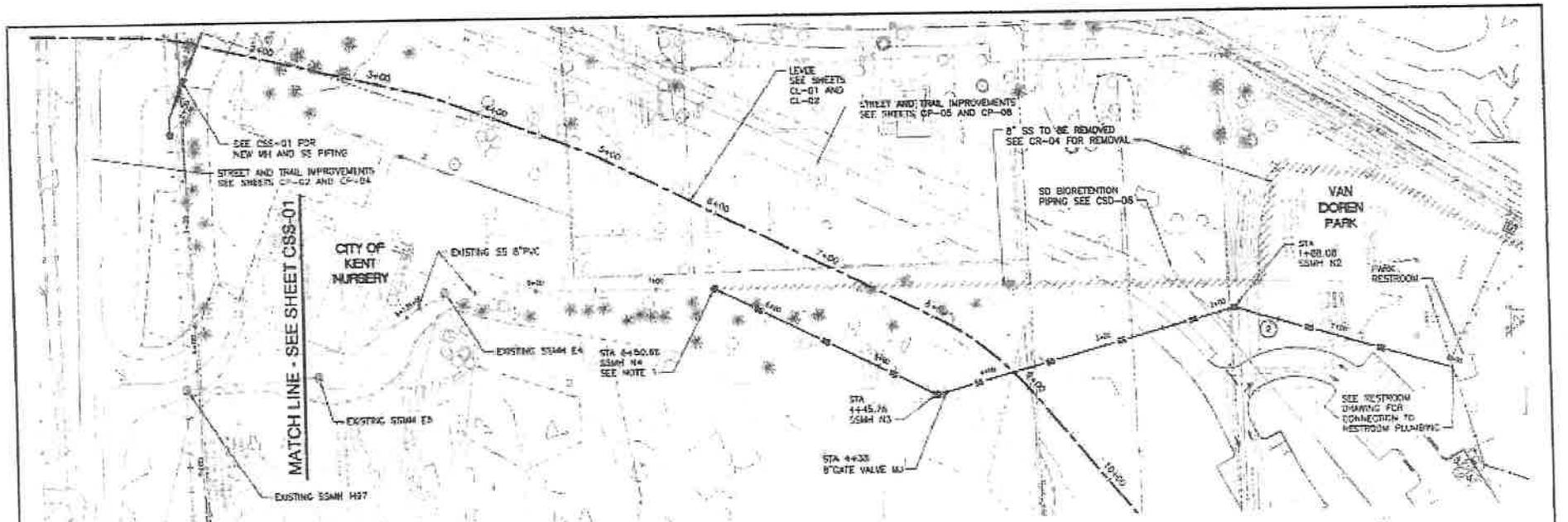
SURVEY JOB NO./SOURCE:		PLANNED:	
CHECKED:		PROJECT No.	1112058
CAD DWTNED:	JTG 11/19	CONTRACT No.	G01415C20
CHECKED:	AE 11/19	REVISION	BY DATE
CHECKED:	MB 11/19		
SUPERVISOR:	SS 11/19		
ISSUED:		RECORD CHANGES APPROVED	BY DATE



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Cynthia Truss, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
SEWER
PLAN AND PROFILE
 KENT FORCE MAIN

SHEET
CSS-01



SEWER UTILITY NOTES

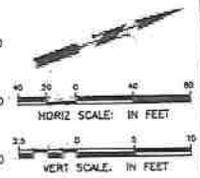
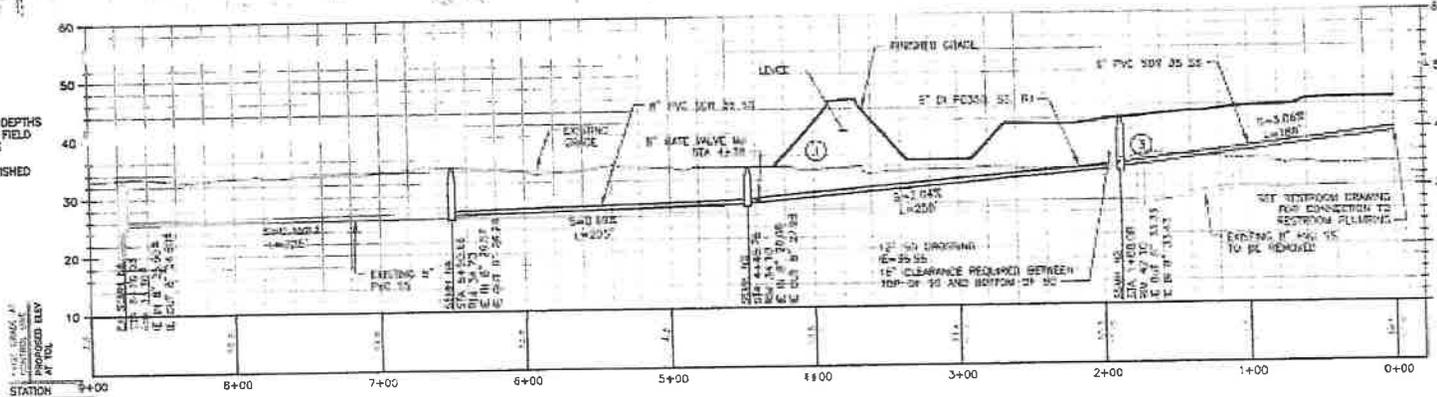
1) SEE CSS-01

NOTES:

- EXISTING UTILITY LOCATIONS AND DEPTHS ARE ESTIMATED. CONTRACTOR TO FIELD VERIFY ALL UTILITY LOCATIONS AS NEEDED.
- 3" OF COVER MINIMUM FROM FINISHED GRADE TO TOP OF SEWER MAIN

CONSTRUCTION NOTES:

- INSTALL NEW PIPE AFTER SETTLEMENT MITIGATION PROCESS HAS BEEN COMPLETED.
- COORDINATE UNDERGROUND POWER CROSSING WITH SS LINE. MAINTAIN REQUIRED SEPARATION DISTANCE.
- SSMH N2 TO INCLUDE WATER TIGHT LID.



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5656
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

Know what's below.
Call before you dig.

MANHOLE SCHEDULE	
MH #	MH DIAMETER
SSMH N2	4'-0"
SSMH N3	4'-0"
SSMH N4	4'-0"

DATE	REVISION	BY	DATE
11/19	AE		
11/19	MC		
11/19	SS		

PROJECT NO.	1112056
CONTRACT NO.	CO1415C20



11/19

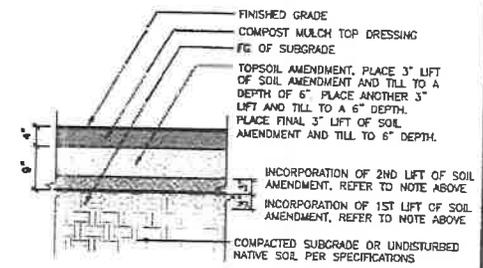
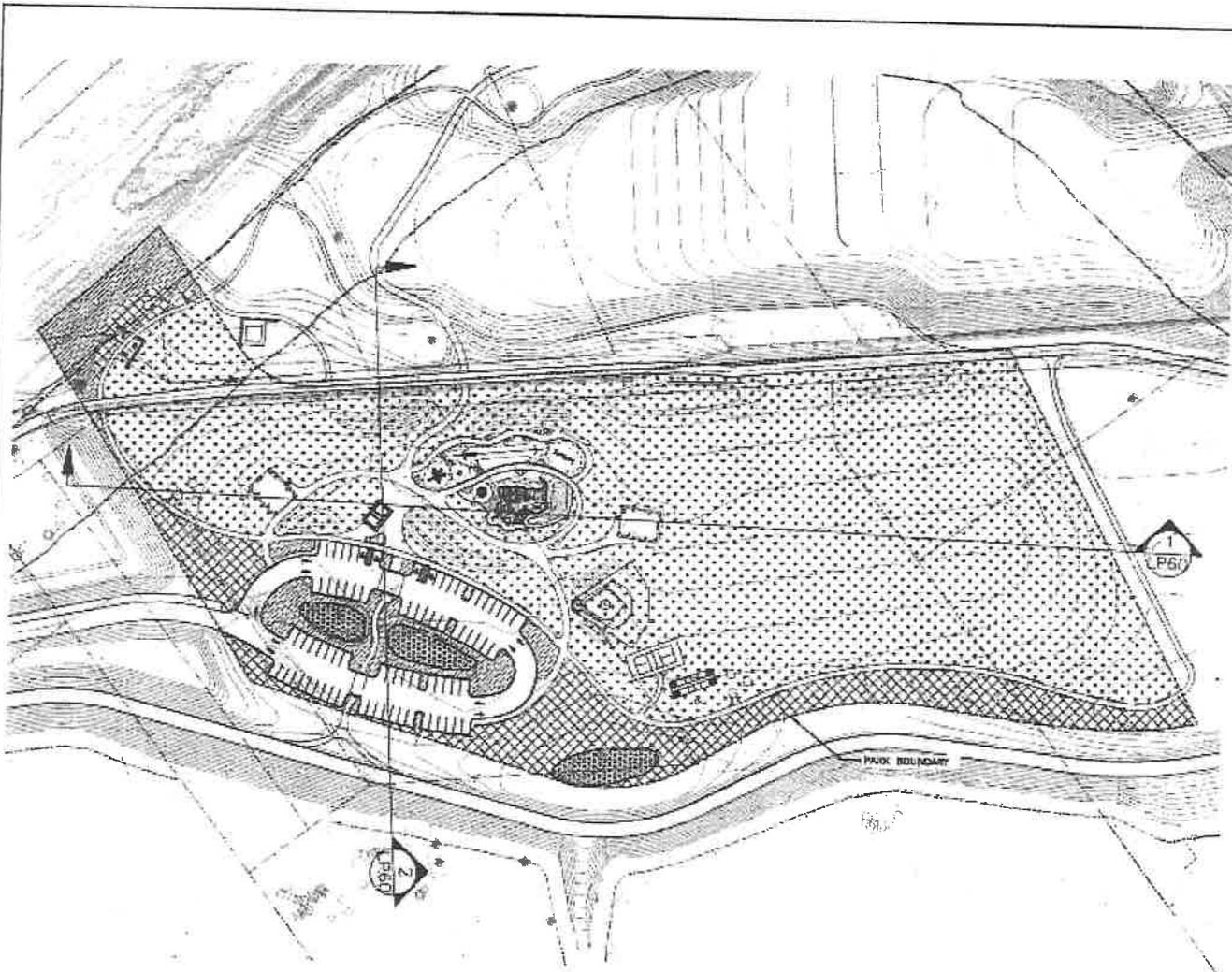


HDR Engineering Inc.

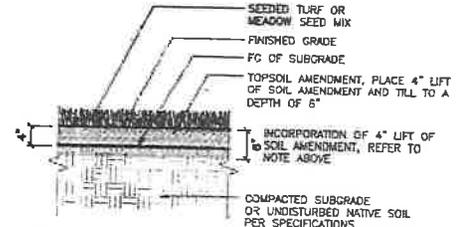
King County
Department of Natural Resources and Parks
Water and Land Resources Division
Row and Footprint Management Section
Outside Tree Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
SEWER
PLAN AND PROFILE
PARK SEWER

SHEET
CSS-02



**SOIL PROFILE -
SHRUB PLANTING BED**
SCALE: 1/2"=1'-0"

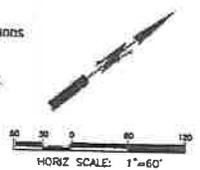


**SOIL PROFILE -
TURF AND MEADOW**
SCALE: 1/2"=1'-0"



- SOIL PREPARATION LEGEND**
- TURF SOIL PROFILE
 - MEADOW SOIL PROFILE
 - GROUND COVER AND SHRUB SOIL PROFILE
 - STORMWATER BIORETENTION AREA SOIL PROFILE - REFER TO 2 / CSD-6

- NOTE:**
1. REFER TO GENERAL NOTES AND SPECIFICATIONS FOR DETAILED DESCRIPTIONS OF REQUIRED METHODS OF OPERATION FOR EACH SOIL PREPARATION TYPE.
 2. REFER TO DRAWING LP-47 FOR PLANTING LEGEND AND SCHEDULE.



SURVEY JOB NO./SOURCE:		Revision	
DRAWN:	22/28 11/27/19	PROJECT No.	1112058
CAD DWTED:	02/08 11/27/19	CONTRACT No.	CO1415C20
DESIGNED:	02/08 11/27/19	DATE	
CHECKED:	08 11/27/19	REVISION	BY DATE
SUPERVISOR:	08 11/27/19	RECORD CHANGES APPROVED	BY DATE



11/27/19



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

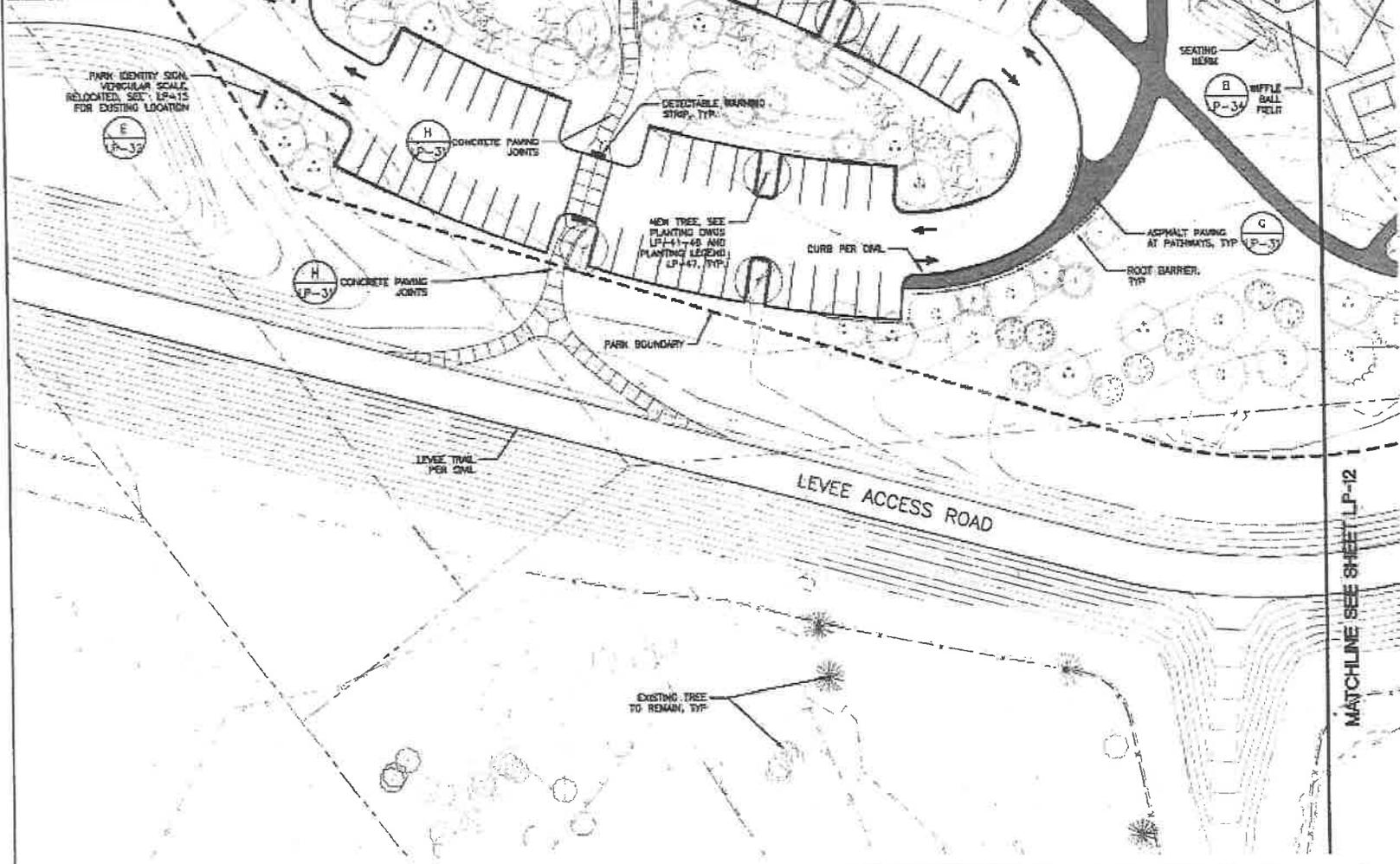
LOWER RUSSELL LEVEL SETBACK PROJECT
PHASE 2
SOIL PREPARATION PLAN

SHEET
LP-01

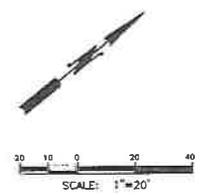
MATCHLINE SEE SHEET LP-13

MATCHLINE SEE SHEET LP-14

- NOTES:
1. REFER TO CIVIL FOR ALL VEHICULAR CURBS, PAVING, AND STRIPING.
 2. REFER TO DWG CP-17 THROUGH CP-20 FOR TRAILS OUTSIDE OF PARK BOUNDARY.



MATCHLINE SEE SHEET LP-12



SURVEY JOB NO./SOURCE:					
CHECKED:					
DWG. DESIGNED:	11/27/19				
DESIGNED:	11/27/19	SCALE	REVISION	BY	DATE
CHECKED:	11/27/19				
SUPERVISOR:	11/27/19				
		RECORD CHANGES APPROVED		BY	DATE

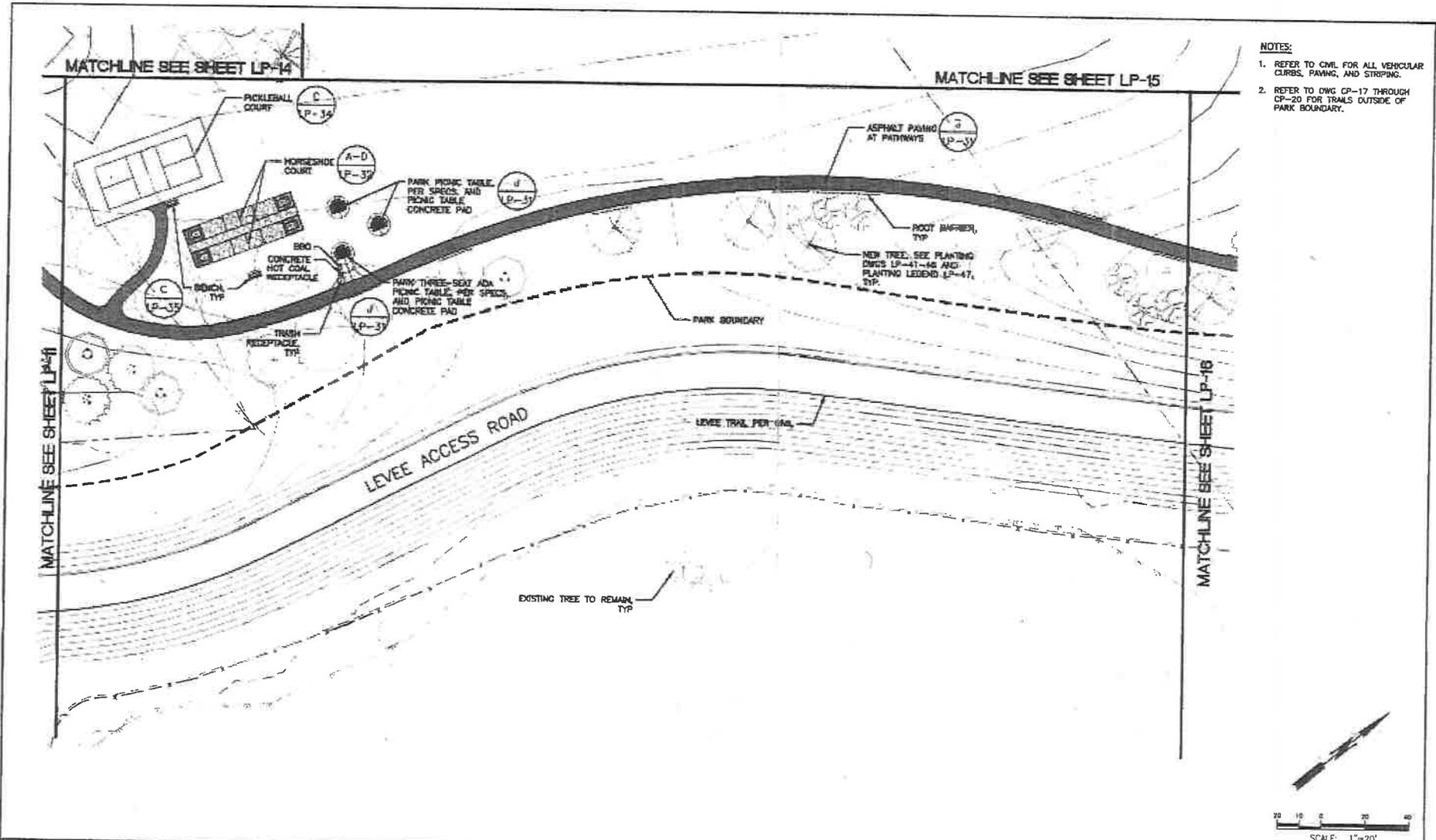
PLACING:	
PROJECT No.	1112058
CONTRACT No.	C01415C20



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Travn, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
LANDSCAPE MATERIALS
 PLAN A

SHEET
LP-11



- NOTES:**
1. REFER TO CIVIL FOR ALL VEHICULAR CURBS, PAVING, AND STRIPING.
 2. REFER TO DWG CP-17 THROUGH CP-20 FOR TRAILS OUTSIDE OF PARK BOUNDARY.

SURVEY JOB NO./DATE:		FUNDING:	
CHECKED:		PROJECT No.	1112056
DATE:	11/27/19	CONTRACT No.	CO1415C20
BY:		RECORD CHANGES APPROVED BY:	
DATE:		DATE:	



11/27/19



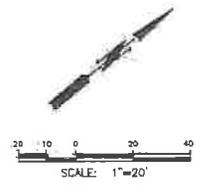
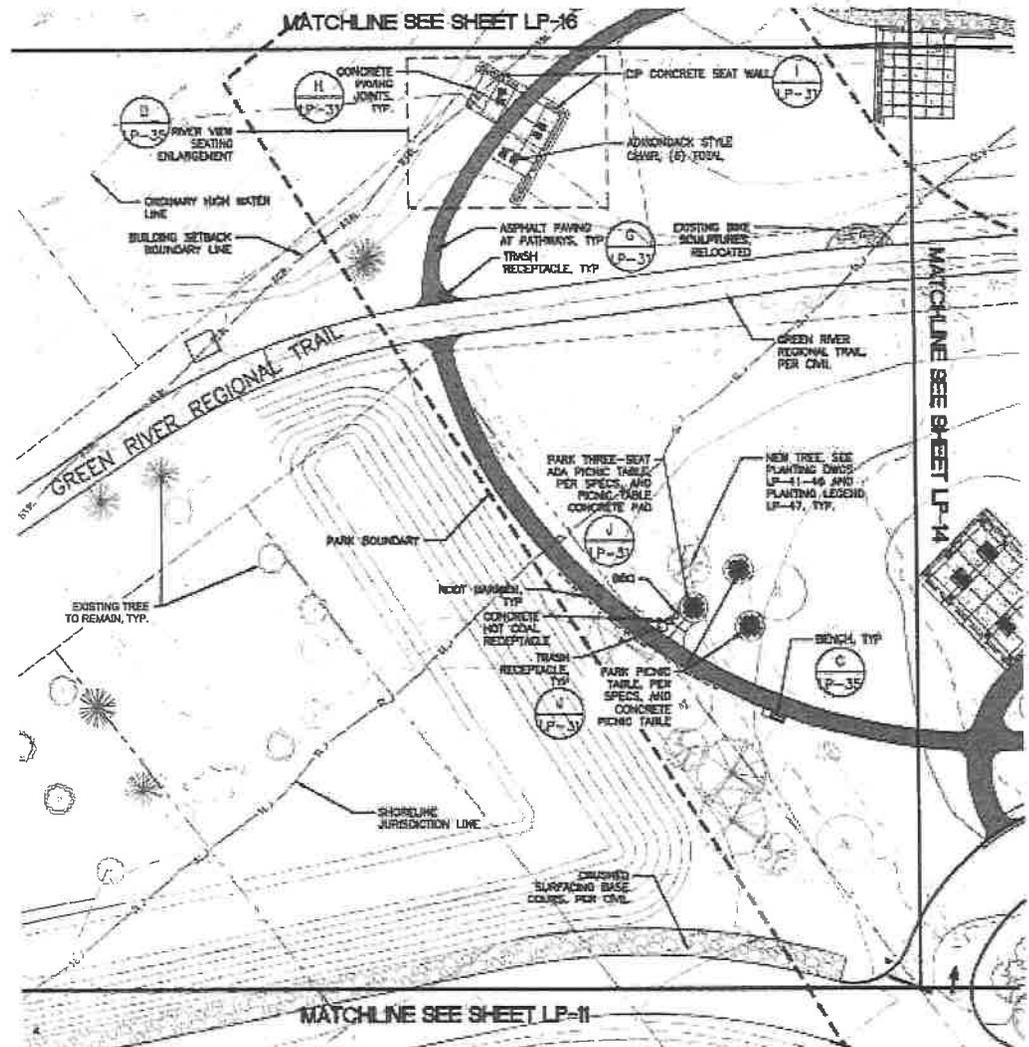
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Triss, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
**LANDSCAPE MATERIALS
 PLAN B**

SHEET
LP-12

NOTES:

1. REFER TO CIVIL FOR ALL VEHICULAR CURBS, PAVING, AND STRIPING.
2. REFER TO DWS CP-17 THROUGH CP-20 FOR TRAILS OUTSIDE OF PARK BOUNDARY.



SURVEY JOB NO./SOURCE		FUNDING	
CHECKED:			
DWG. INTERED:	11/27/19	PROJECT No.	1112056
DESIGNED:	11/27/19	CONTRACT No.	C01415C20
CHECKED:	11/27/19		
SUPERVISOR:	11/27/19		
	MAIL	RECORD CHANGES APPROVED	BY DATE

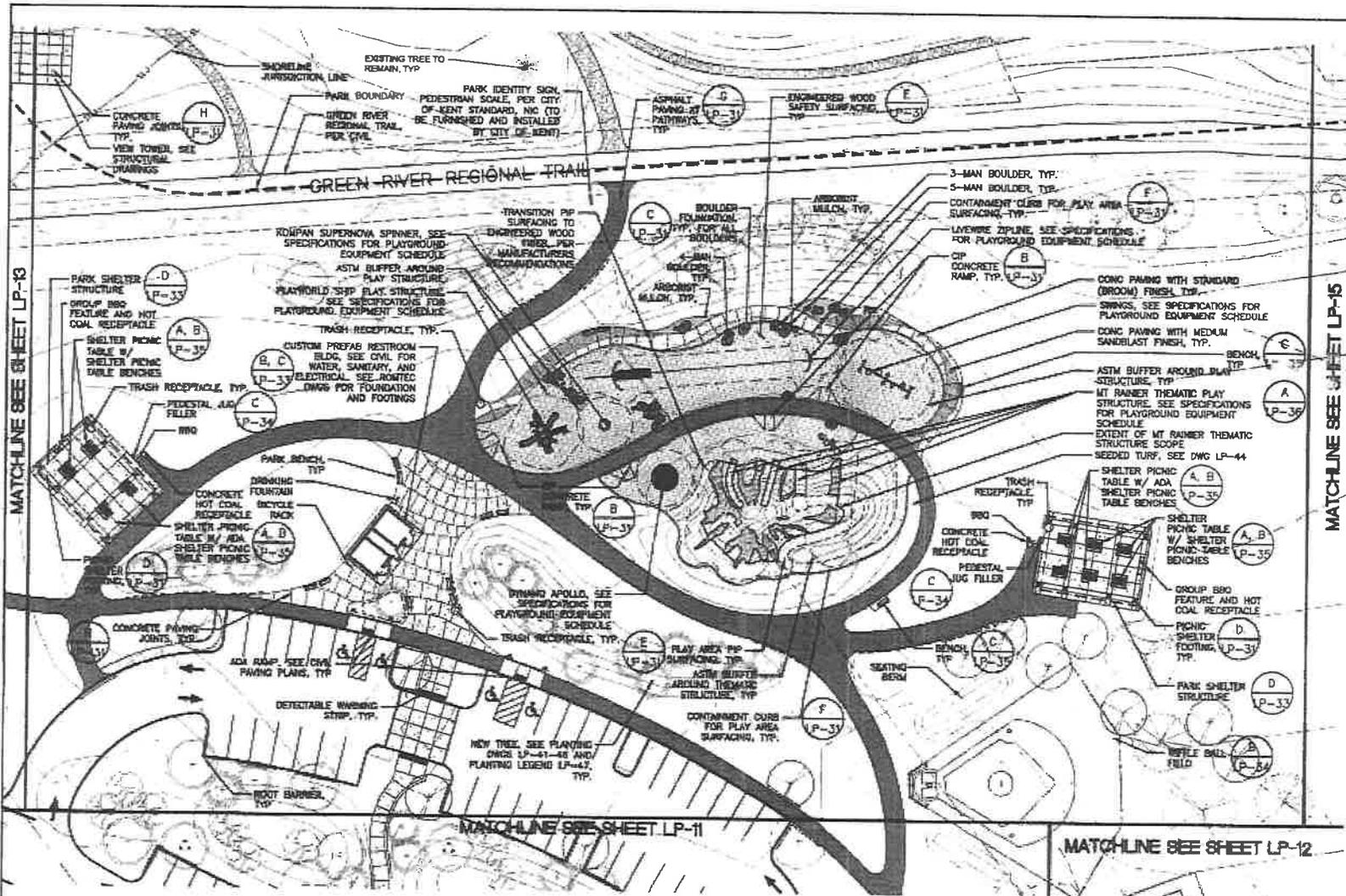
11/27/19

PARTNERSHIP
berger

King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Truse, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
LANDSCAPE MATERIALS
PLAN C

SHEET
LP-13



- NOTES:**
- REFER TO CIVIL FOR ALL VERTICAL CURVES, PAVING, AND STRIPING.
 - REFER TO DWG CP-17 THROUGH CP-20 FOR TRAILS OUTSIDE OF PARK BOUNDARY.
 - REFER TO SPECIFICATIONS PLAYGROUND EQUIPMENT SCHEDULE
 - REFER TO CIVIL FOR TYPICAL CONCRETE PAVING PROFILE AND SUB-GRADE PREPARATION.
 - PROVIDE ROOT BARRIERS WHERE SHOWN IN PLANS. ROOT BARRIERS SHALL EXTEND 8" MIN IN EACH DIRECTION FROM CENTER LINE OF TREE TRUNKS WITHIN 12" OF PAVING.

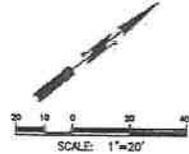
SURVEY JOB NO./SCALE:		Funding:	
CHECKED:		PROJECT No.	1112056
CAD DATED:	2/2 11/22/18	CONTRACT No.	CO1415220
DESIGNED:	2/28 11/22/18	DATE	11/27/19
CHECKED:	2/28 11/22/18		
SUPERVISOR:	2/28 11/22/18		
REVISIONS:			
NO.	REVISION	APPROVED BY	DATE

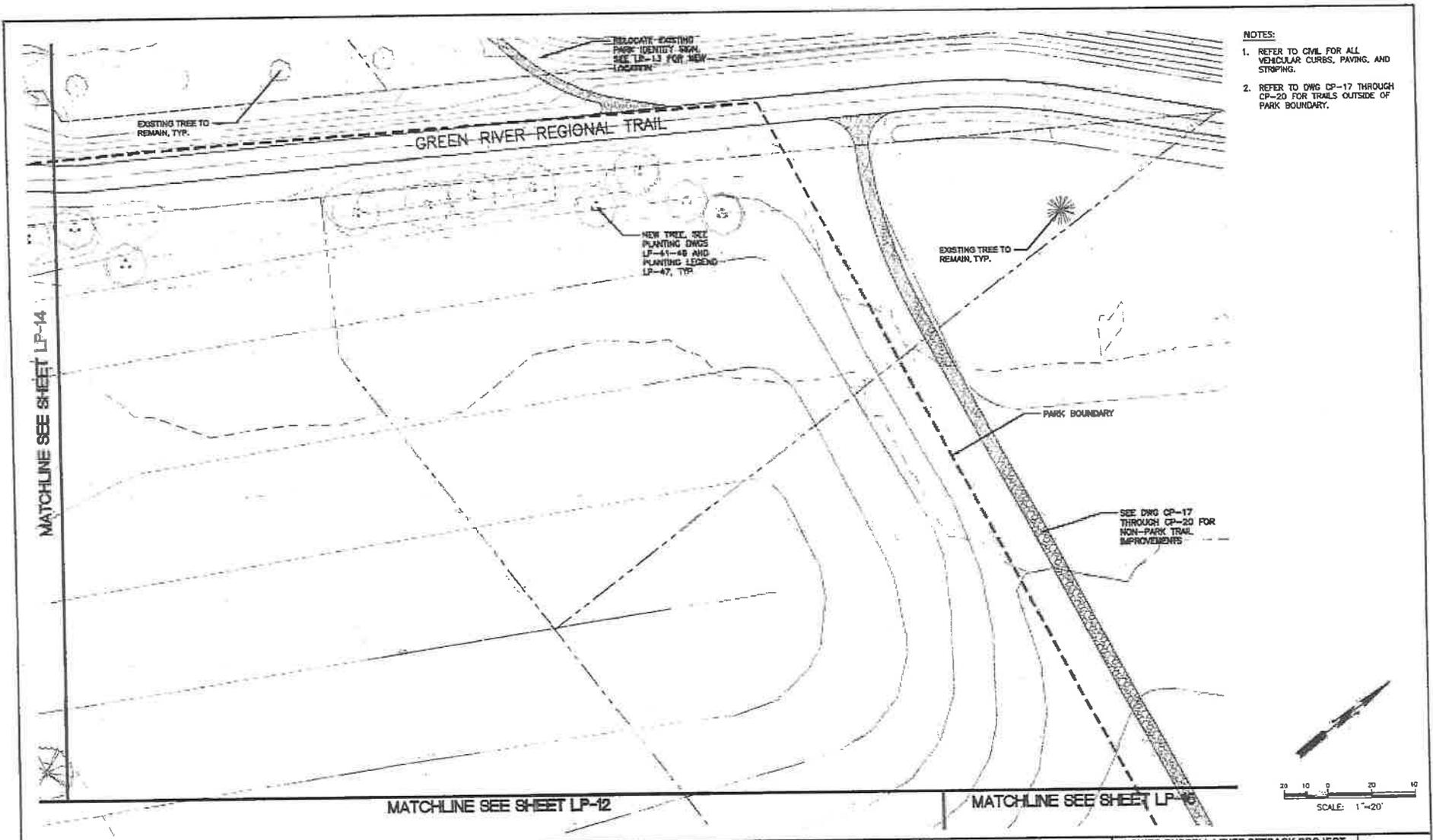
PROJECT No.	1112056
CONTRACT No.	CO1415220
DATE	11/27/19



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christine Tran, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 LANDSCAPE MATERIALS
 PLAN D
 SHEET LP-14





- NOTES:**
1. REFER TO CIVIL FOR ALL VEHICULAR CURBS, PAVING, AND STRIPING.
 2. REFER TO DWG CP-17 THROUGH CP-20 FOR TRAILS OUTSIDE OF PARK BOUNDARY.

SUPPLY LOG NO./SCHEDULE						FUNDING
CHECKED						PROJECT No. 1112056
CAD EXTENDED	02/15	11/23/18				CONTRACT No. C01415C20
DESIGNED	02/08	11/20/18	REVISION	BY	DATE	
CHECKED	08	11/23/18				
SUPERVISOR	08	11/23/18				
			RECORD CHANGES APPROVED	BY	DATE	

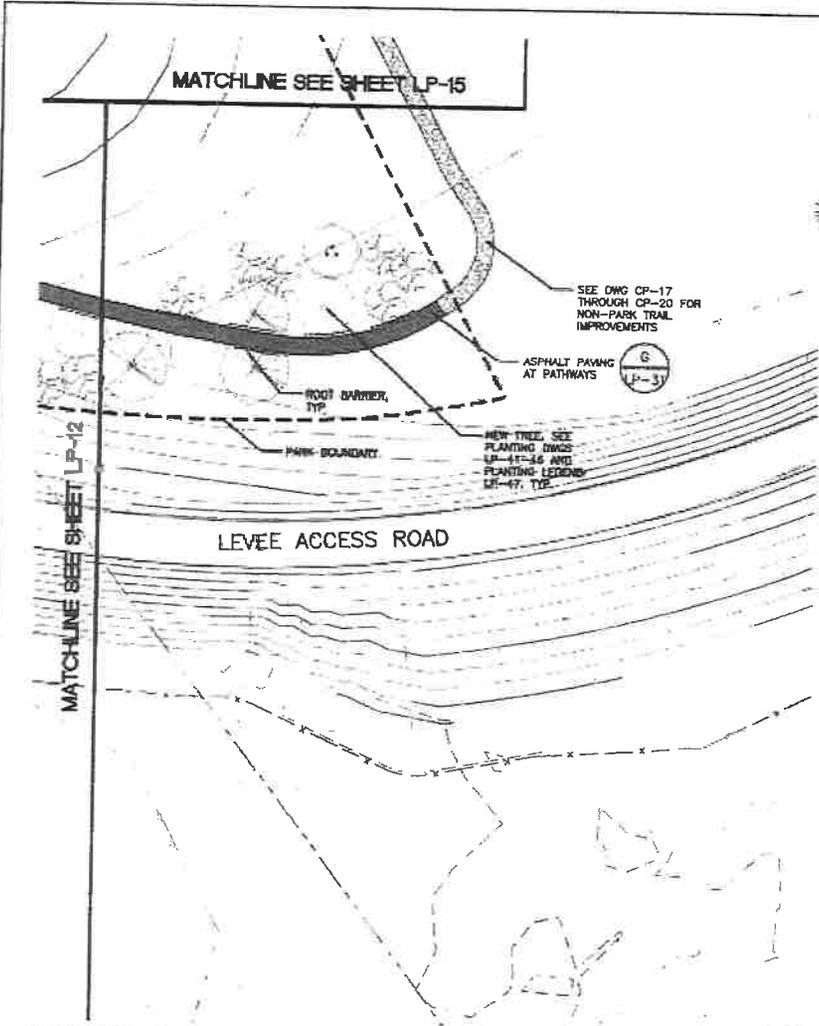
11/27/19

PARTNERSHIP
berger

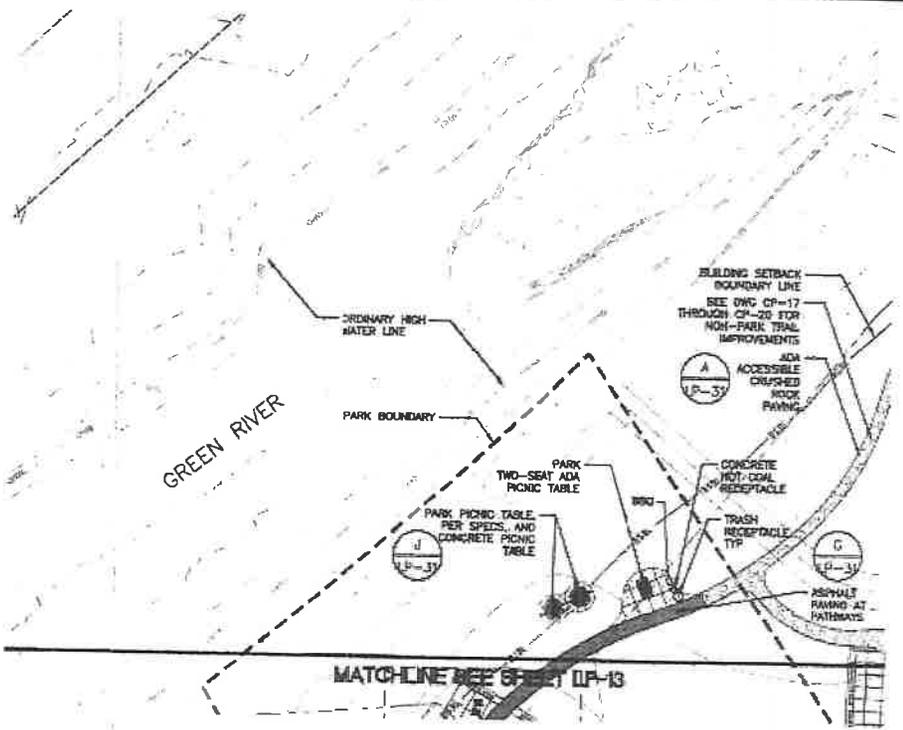
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Tsou, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
LANDSCAPE MATERIALS
PLAN E

SHEET
LP-15

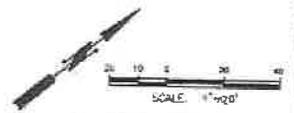


PLAN AREA G
SCALE: 1"=20'-0"



PLAN AREA F
SCALE: 1"=20'-0"

- NOTES:**
- REFER TO CIVL FOR ALL VEHICULAR CURBS, PAVING, AND STRIPING.
 - REFER TO DWG CP-17 THROUGH CP-20 FOR TRAILS OUTSIDE OF PARK BOUNDARY.



(G)

(F)

SURVEY JOB NO/SOURCE:		PLANNING:	
CHECKED:			
DATE ENTERED:	2/3 11/23/18		
DESIGNED:	2/28 11/23/18	REVIEW:	BY DATE
CHECKED:	08 11/23/18		
SUPERVISOR:	08 11/23/18		
		RECORD CHANGES APPROVED:	BY DATE

PROJECT No.	1112056
CONTRACT No.	C01415C20



11/27/19



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Truse, Director

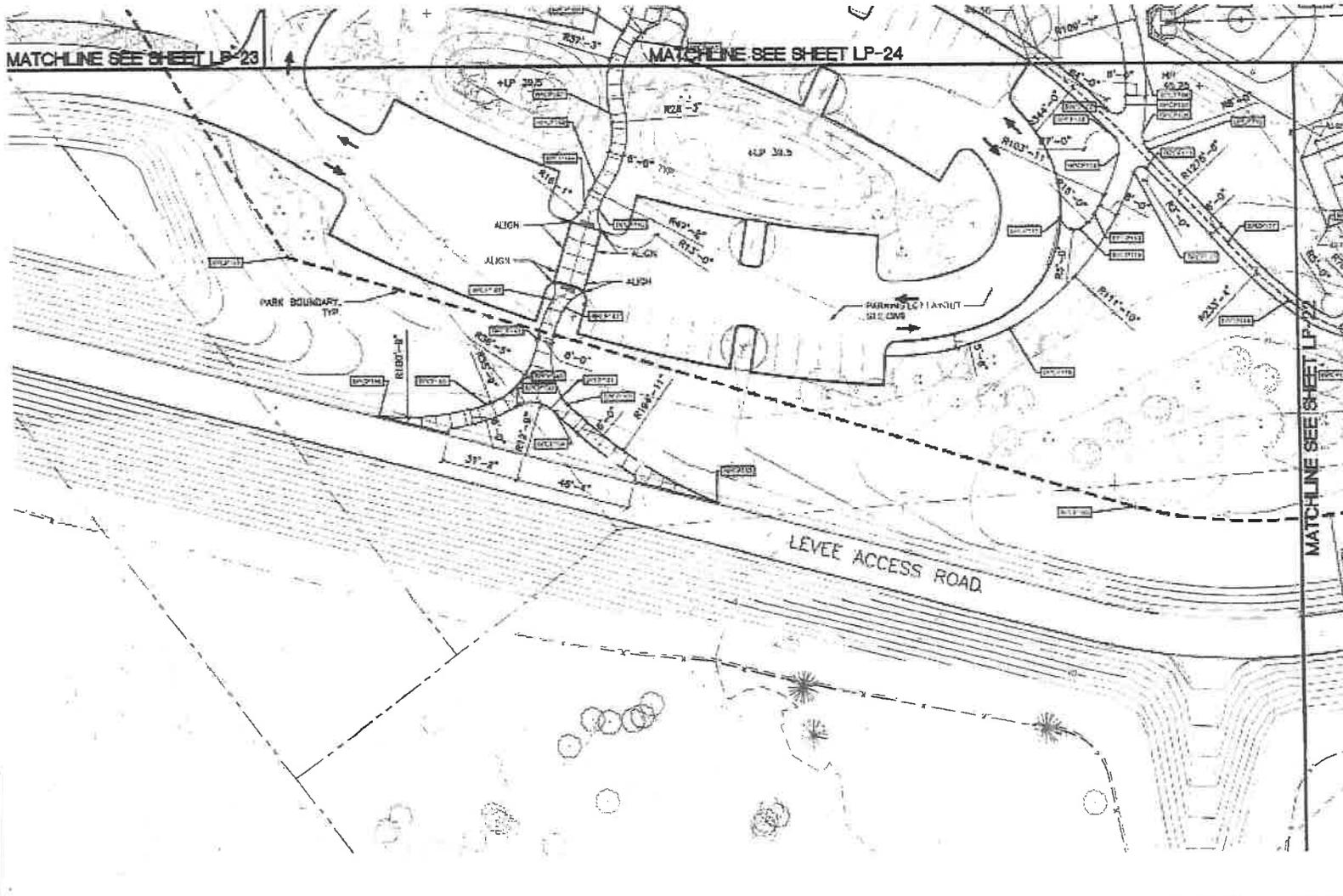
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
LANDSCAPE MATERIALS
PLAN F & G

SHEET
LP-16

MATCHLINE SEE SHEET LP-23

MATCHLINE SEE SHEET LP-24

- NOTES:
1. ARC RADIUS PROVIDED BETWEEN CONTROL POINTS (BPCP). WHEN STRAIGHT LINE BETWEEN BPCP. NO ARC RADIUS IS PROVIDED. REFER TO LP-28 FOR PARK CONTROL POINT TABLE.



MATCHLINE SEE SHEET LP-27



SURVEY JOB NO./DATE:					
CHECKED:					
DWG EXTENDED:	01/17/19	11/27/19			
DESIGNED:	JL/28	11/27/19	REV.	REVISION	BY DATE
CHECKED:	CS	11/27/19			
SUPERVISION:	CS	11/27/19			
DATE:					
RECORD CHANGES APPROVED:					

PLANNING:

PROJECT No. 1112056

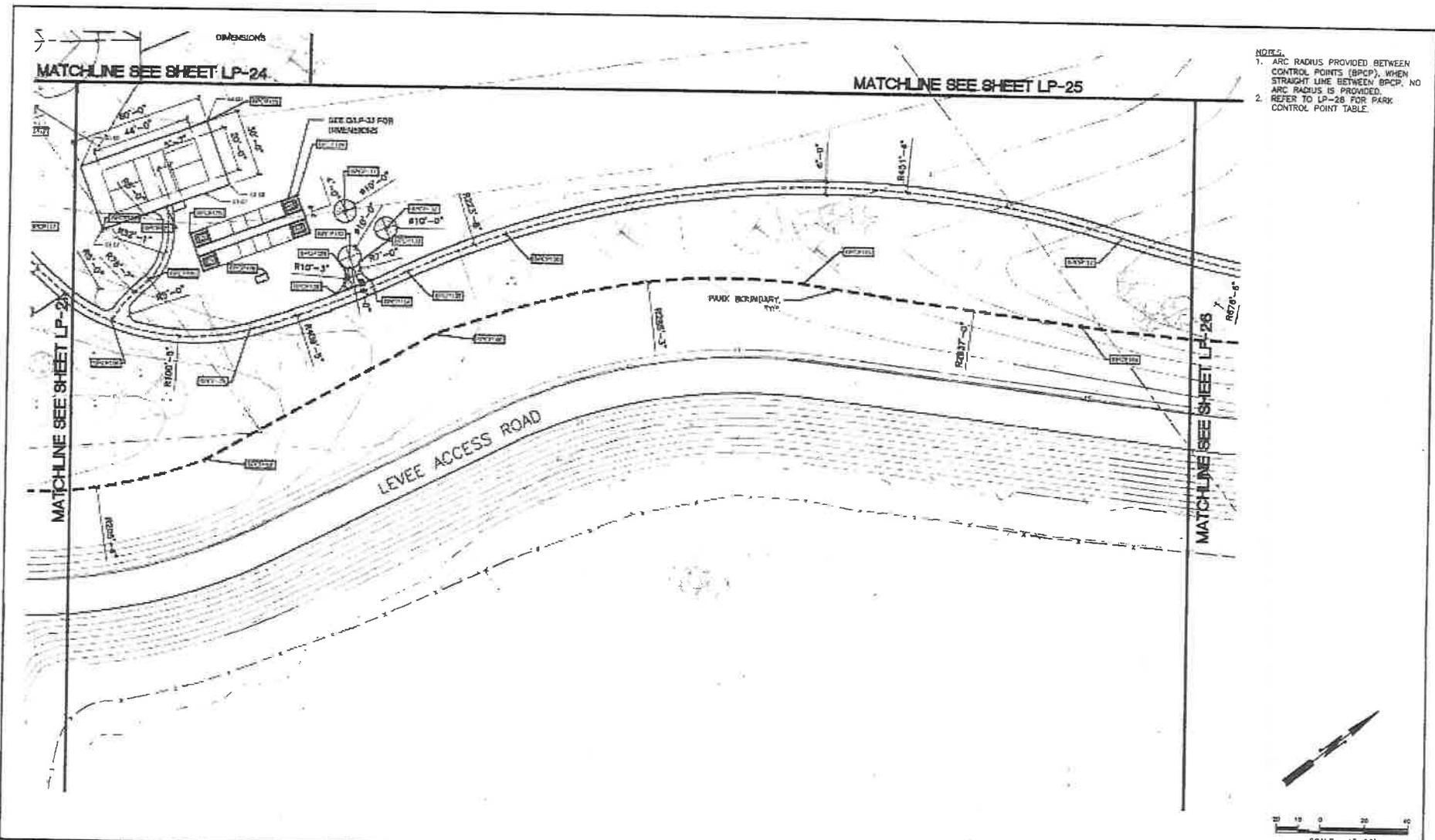
CONTRACT No. C0141SC20



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie True, Director

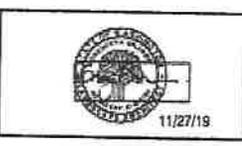
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
LAYOUT & GRADING
PLAN A

SHEET
LP-21



- NOTES:
1. ARC RADIUS PROVIDED BETWEEN CONTROL POINTS (BPCP), WHEN STRAIGHT LINE BETWEEN BPCP, NO ARC RADIUS IS PROVIDED.
 2. REFER TO LP-26 FOR PARK CONTROL POINT TABLE.

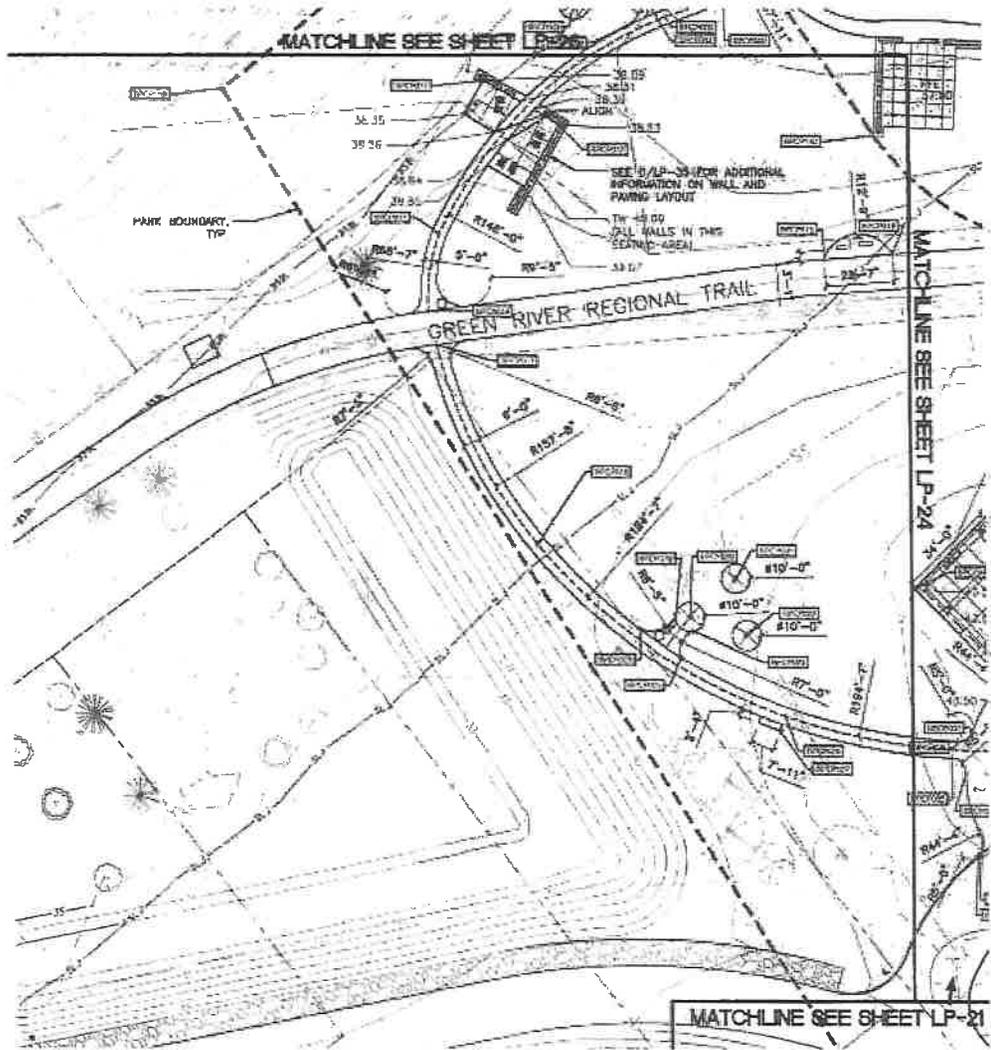
SURVEY JOB NO./SOURCE:				FUNDING:			
CHECKED:				PROJECT No. 1112056			
CAD DRAWN:	01/06 11/27/13			CONTRACT No. C01415C20			
DESIGNED:	02/09 11/27/13	TRAIL	REVISION	BY	DATE		
CHECKED:	05 11/27/13						
SUPERVISOR:	08 11/27/13						
		TRAIL	RECORD CHANGES APPROVED	BY	DATE		



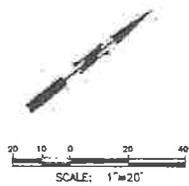
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chitha True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
LAYOUT & GRADING
PLAN B

SHEET
LP-22



- NOTES:
1. ARC RADIUS PROVIDED BETWEEN CONTROL POINTS (BPCP). WHEN STRAIGHT LINE BETWEEN BPCP, NO ARC RADIUS IS PROVIDED.
 2. REFER TO LP-28 FOR PARK CONTROL POINT TABLE.



SURVEY JOB NO./SOURCE:					
CHECKED:					
CAD EXTENDED:	01/8	11/27/19			
DESIGNED:	02/28	11/27/19	NAL	REVISION	BY DATE
CHECKED:	08	11/27/19			
SUPERVISOR:	08	11/27/19			
			NAL	RECORD CHANGES APPROVED	BY DATE

PLANNING:	
PROJECT No.	1112056
CONTRACT No.	C01415C20



11/27/19

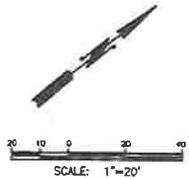
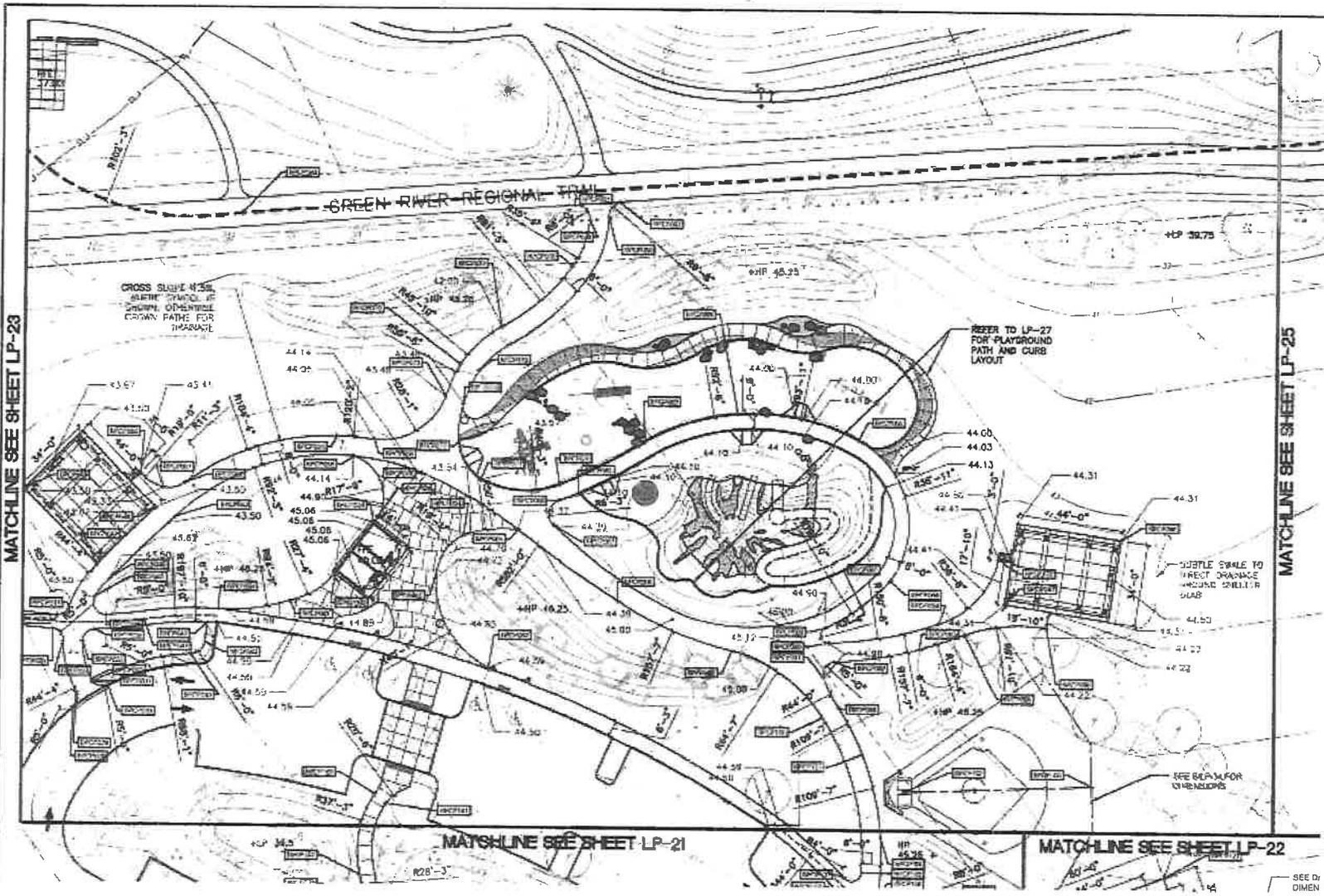


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Tice, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 LAYOUT & GRADING
 PLAN C

SHEET
 LP-23

- NOTES:
1. ARC RADIUS PROVIDED BETWEEN CONTROL POINTS (BPCP) WHEN STRAIGHT LINE BETWEEN BPCP, NO ARC RADIUS IS PROVIDED.
 2. REFER TO LP-28 FOR PARK CONTROL POINT TABLE.



SURVEY JOB NO./DATE		PROJECT NO.	
CHECKED: _____		1112056	
CADD EXTENDED: 02/21/19		CONTRACT NO. C01415C20	
DESIGNED: 02/28/19	BY: _____	DATE: _____	
CHECKED: 08/11/19	BY: _____	DATE: _____	
SUPERVISOR: 08/11/19	BY: _____	DATE: _____	
RECORD CHANGES APPROVED BY: _____		DATE: _____	

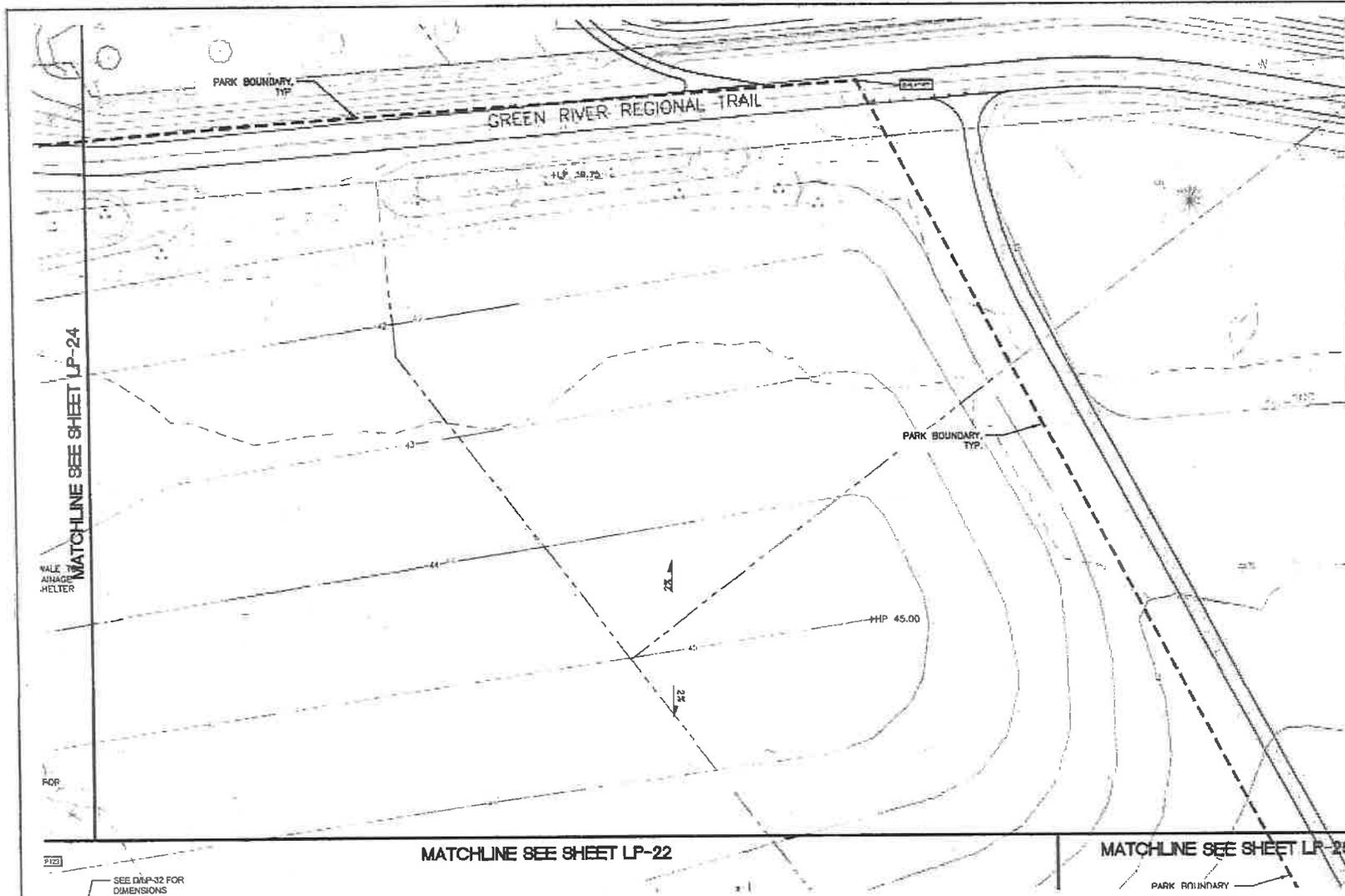
PROJECT NO. 1112056	
CONTRACT NO. C01415C20	



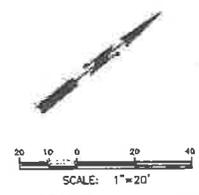
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
LAYOUT & GRADING
PLAN D

SHEET
LP-24



NOTES:
 1. ARC RADIUS PROVIDED BETWEEN CONTROL POINTS (BPCP). WHEN STRAIGHT LINE BETWEEN BPCP, NO ARC RADIUS IS PROVIDED.
 2. REFER TO LP-26 FOR PARK CONTROL POINT TABLE.

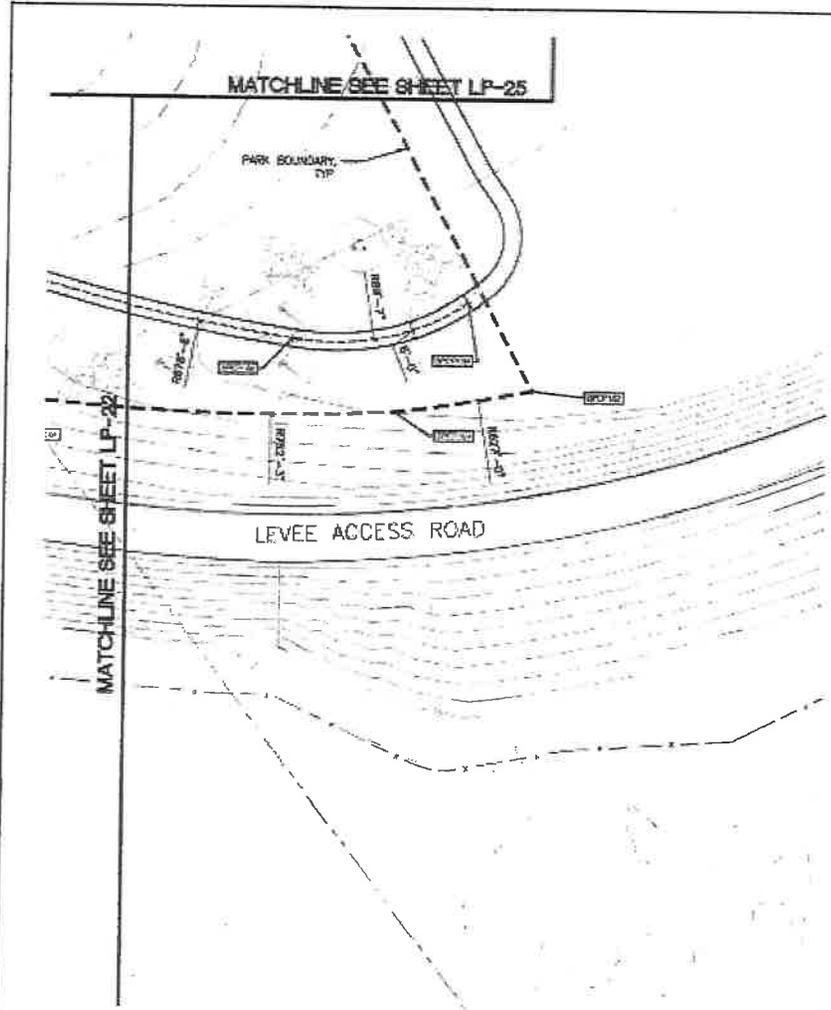


SURVEY JOB NO./SOURCE		PROJECT No. 1112056	
CHECKED: 12/28 11/27/19		CONTRACT No. CD1415C20	
DESIGNED: 12/28 11/27/19	PLM. REVISION	BY	DATE
CHECKED: 08 11/27/19			
SUPERVISOR: 08 11/27/19			
TOTAL RECORD CHANGES APPROVED BY DATE		11/27/19	

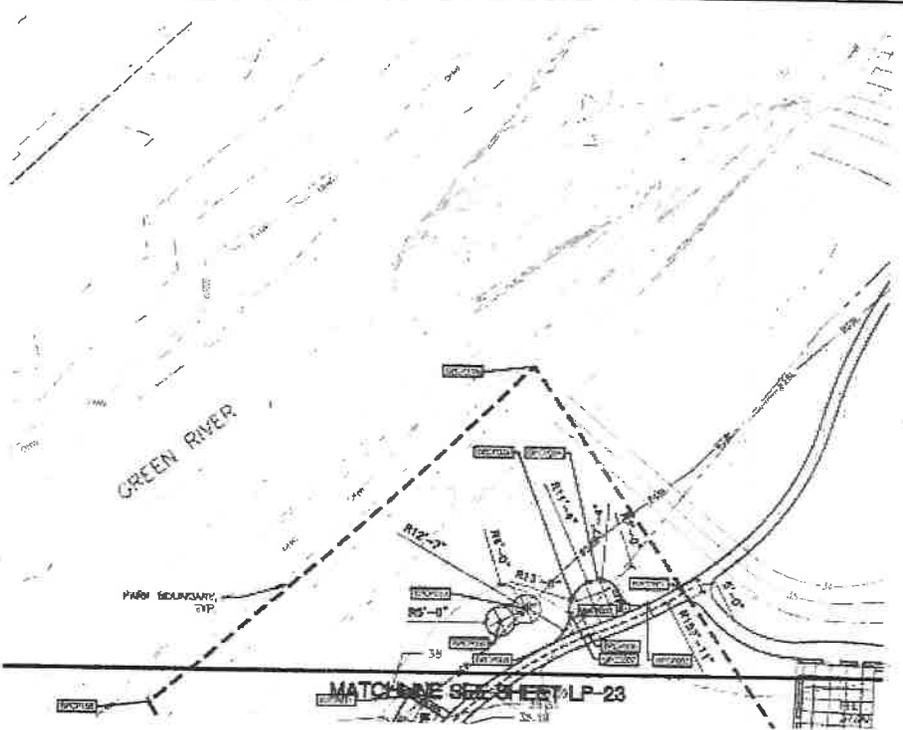


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
**LAYOUT & GRADING
 PLAN E**
 SHEET
LP-25



PLAN G
SCALE: 1"=20'-0"



PLAN F
SCALE: 1"=20'-0"

- NOTES:**
1. ARC RADIUS PROVIDED BETWEEN CONTROL POINTS (BPCP) WHEN STRAIGHT LINE BETWEEN BPCP, NO ARC RADIUS IS PROVIDED
 2. REFER TO LP-28 FOR PARK CONTROL POINT TABLE



SURVEY JOB NO./SOURCE:		FUNDING:	
CHECKED:		PROJECT No.	1112056
DATE DIVERSED:	01/08 11/27/19	CONTRACT No.	CD1415C20
DESIGNED:	02/08 11/27/19	REVISION	BY DATE
CHECKED:	08 11/26/19	RECORD CHANGES APPROVED	BY DATE
SUPERVISOR:	08 11/27/19		

B

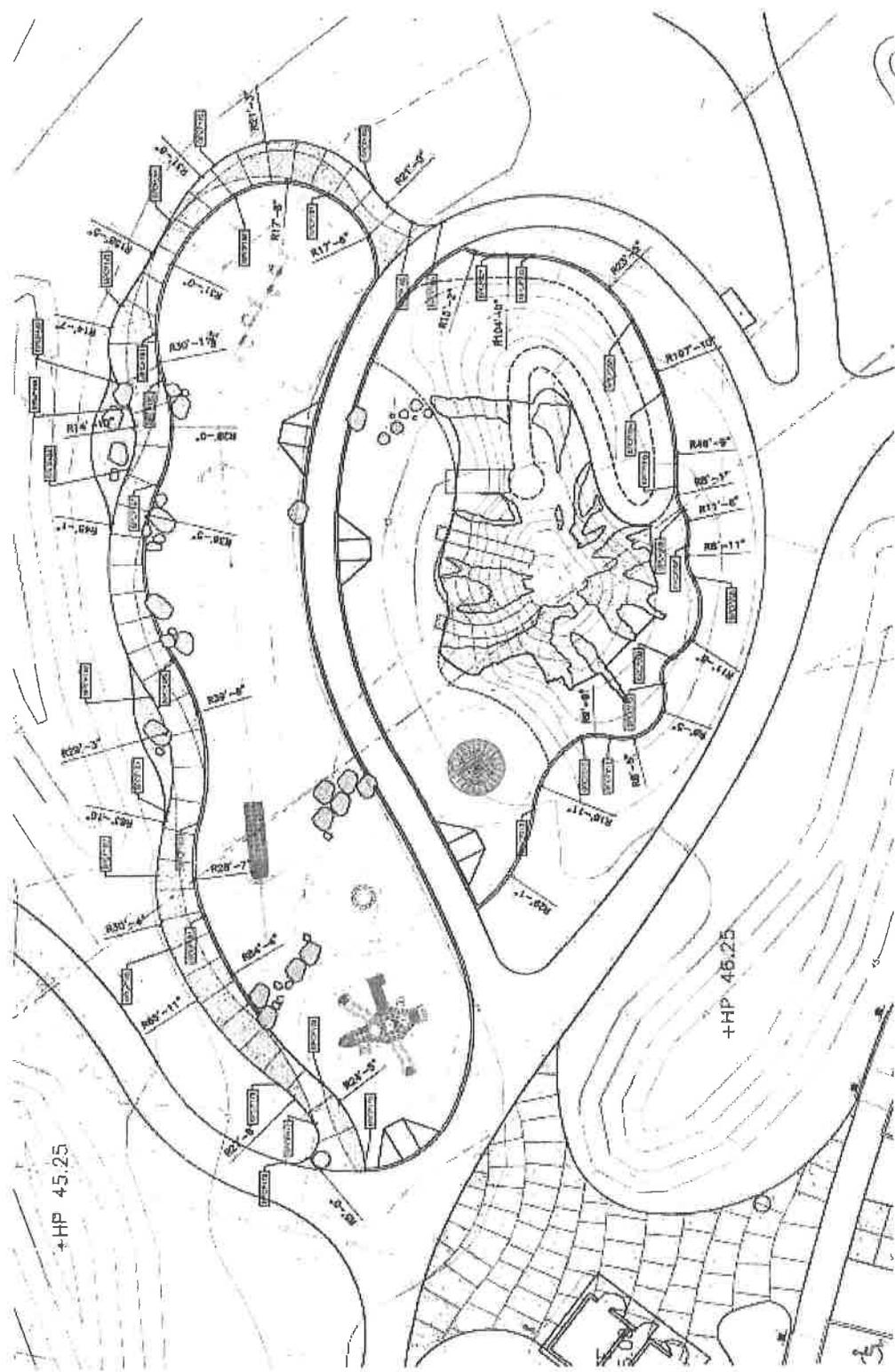


King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Tru, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
LAYOUT & GRADING
PLAN F & G

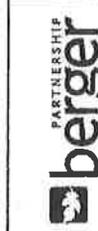
SHEET
LP-26

- NOTES:
1. ARC RADIUS PROVIDED BETWEEN CONTROL POINTS AND STRAIGHT LINE BETWEEN POINTS. NO ARC RADIUS IS PROVIDED. REFER TO LP-28 FOR PARK CONTROL POINT TABLE.
 - 2.



LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 LAYOUT & GRADING
 PLAYGROUND ENLARGEMENT

King County
 Department of Natural Resources and Parks
 1000 1st Avenue, 5th Floor
 Rainier and Population Management Studios
 Christine Tran, Director



11/27/19

PROJECT No. 1112056
 CONTRACT No. CD1415C20

DATE	BY	REVISION
11/27/19	SM	ISSUE FOR PERMIT
08/11/2019	SM	ISSUE FOR PERMIT
08/11/2019	SM	ISSUE FOR PERMIT

DATE: 11/27/19
 SCALE: 1"=10'
 SHEET LP-27
 RECORDS CHARGED APPROVED BY: DATE

NUMBER	NORTHING	EASTING
BPCP001	N:150710.8951	E:1283804.09
BPCP002	N:150698.2580	E:1283799.53
BPCP003	N:150682.8411	E:1283790.70
BPCP004	N:150668.8413	E:1283782.33
BPCP005	N:150678.6773	E:1283781.85
BPCP006	N:150675.7851	E:1283785.60
BPCP007	N:150674.6714	E:1283785.37
BPCP008	N:150663.2474	E:1283790.18
BPCP009	N:150653.8792	E:1283773.32
BPCP010	N:150663.7138	E:1283775.47
BPCP011	N:150612.9544	E:1283774.39
BPCP012	N:150624.1314	E:1283802.06
BPCP013	N:150658.4816	E:1283805.87
BPCP014	N:150648.7824	E:1283824.40
BPCP015	N:150667.1919	E:1283894.35
BPCP016	N:150686.7790	E:1283907.49
BPCP017	N:150643.0312	E:1283835.58
BPCP018	N:150528.8489	E:1283909.80
BPCP019	N:150601.7083	E:1283957.30
BPCP020	N:150554.7253	E:1283861.49
BPCP021	N:150575.1435	E:1283860.90
BPCP022	N:150566.1254	E:1283878.47
BPCP023	N:150552.4278	E:1283865.93
BPCP024	N:150538.5212	E:1283854.24
BPCP025	N:150543.7230	E:1283870.42
BPCP026	N:150556.2867	E:1284028.36
BPCP027	N:150554.7218	E:1284011.19
BPCP028	N:150582.0414	E:1284066.38
BPCP029	N:150598.9202	E:1284082.18
BPCP030	N:150589.0254	E:1284067.92
BPCP031	N:150594.8881	E:1284083.19
BPCP032	N:150595.0540	E:1284082.01
BPCP033	N:150591.9756	E:1284067.01
BPCP034	N:150595.8538	E:1284061.83

BPCP035	N:150585.2297	E:1284025.03
BPCP036	N:150600.5190	E:1284051.68
BPCP037	N:150608.9292	E:1284052.10
BPCP038	N:150608.8898	E:1284066.05
BPCP039	N:150618.5423	E:1284064.14
BPCP040	N:150634.3030	E:1284086.88
BPCP041	N:150627.6303	E:1284078.53
BPCP042	N:150647.8838	E:1284092.38
BPCP043	N:150642.0480	E:1284098.21
BPCP044	N:150664.9330	E:1284090.79
BPCP045	N:150617.5958	E:1284055.38
BPCP046	N:150627.1244	E:1284053.11
BPCP047	N:150626.3363	E:1284045.15
BPCP048	N:150660.0779	E:1284041.44
BPCP049	N:150621.4806	E:1284001.42
BPCP050	N:150663.9108	E:1284028.93
BPCP051	N:150667.8011	E:1284038.58
BPCP052	N:150676.2804	E:1284040.53
BPCP053	N:150684.2118	E:1284048.45
BPCP054	N:150737.8338	E:1284063.72
BPCP055	N:150738.1751	E:1284074.82
BPCP056	N:150749.2857	E:1284074.82
BPCP057	N:150756.4858	E:1284097.42
BPCP058	N:150730.7690	E:1284101.10
BPCP059	N:150727.7202	E:1284101.82
BPCP060	N:150703.1194	E:1284108.09
BPCP061	N:150680.7420	E:1284106.39
BPCP062	N:150726.8801	E:1284179.05
BPCP063	N:150736.4408	E:1284133.84
BPCP064	N:150753.8537	E:1284129.02
BPCP065	N:150773.3831	E:1284140.97
BPCP066	N:150788.4863	E:1284189.92
BPCP067	N:150788.3108	E:1284148.80
BPCP068	N:150794.5081	E:1284141.60
BPCP069	N:150803.1105	E:1284144.02
BPCP070	N:150798.8884	E:1284136.58

BPCP071	N:150774.0801	E:1284114.66
BPCP072	N:150777.0948	E:1284096.52
BPCP073	N:150783.8737	E:1284078.12
BPCP074	N:150787.5268	E:1284088.32
BPCP075	N:150801.2108	E:1284078.17
BPCP076	N:150798.8770	E:1284071.81
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BPCP078	N:150858.1774	E:1284087.71
BPCP079	N:150875.7545	E:1284098.88
BPCP080	N:150882.7817	E:1284090.82
BPCP081	N:150874.5908	E:1284047.92
BPCP082	N:150880.3844	E:1284058.51
BPCP083	N:150837.7327	E:1284144.38
BPCP084	N:150875.8831	E:1284156.10
BPCP085	N:150908.9952	E:1284198.48
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BPCP087	N:150887.8187	E:1284254.05
BPCP088	N:150850.4768	E:1284251.87
BPCP089	N:150847.8681	E:1284257.82
BPCP090	N:150813.8388	E:1284236.52
BPCP091	N:150837.3848	E:1284287.75
BPCP092	N:150844.8853	E:1284285.48
BPCP093	N:150875.1880	E:1284282.94
BPCP094	N:150889.2739	E:1284279.40
BPCP095	N:150894.8702	E:1284286.59
BPCP096	N:150923.7882	E:1284308.33
BPCP097	N:150915.9431	E:1284289.50
BPCP098	N:150970.8438	E:1284298.83
BPCP099	N:150834.5886	E:1284281.34
BPCP100	N:150826.8872	E:1284302.94
BPCP101	N:150830.7487	E:1284302.94
BPCP102	N:150835.5153	E:1284326.03
BPCP103	N:150866.8402	E:1284372.02
BPCP104	N:150815.9980	E:1284334.58
BPCP105	N:150800.9640	E:1284340.87
BPCP106	N:150799.2487	E:1284333.94

BPCP107	N:150793.8079	E:1284337.78
BPCP108	N:150788.2888	E:1284348.82
BPCP109	N:150788.3861	E:1284354.22
BPCP110	N:150788.8929	E:1284380.73
BPCP111	N:150791.2379	E:1284388.00
BPCP112	N:150788.5715	E:1284383.84
BPCP113	N:150783.3143	E:1284387.38
BPCP114	N:150784.8285	E:1284388.34
BPCP115	N:150782.0515	E:1284380.08
BPCP116	N:150707.1833	E:1284381.87
BPCP117	N:150788.2338	E:1284409.74
BPCP118	N:150803.1185	E:1284443.04
BPCP119	N:150812.2889	E:1284464.89
BPCP120	N:150837.2085	E:1284480.72
BPCP121	N:150862.3888	E:1284438.35
BPCP122	N:150833.7284	E:1284430.33
BPCP123	N:150889.8857	E:1284419.88
BPCP124	N:150912.1879	E:1284470.58
BPCP125	N:150863.5704	E:1284455.17
BPCP126	N:150880.3343	E:1284488.88
BPCP127	N:150890.1888	E:1284506.48
BPCP128	N:150899.2818	E:1284516.26
BPCP129	N:150900.1809	E:1284506.05
BPCP130	N:150814.1871	E:1284506.56
BPCP131	N:150924.7505	E:1284489.11
BPCP132	N:150934.8198	E:1284506.22
BPCP133	N:150918.8507	E:1284510.92
BPCP134	N:150915.8872	E:1284520.67
BPCP135	N:150900.8849	E:1284527.12
BPCP136	N:150978.8518	E:1284540.82
BPCP137	N:151195.6516	E:1284709.27
BPCP138	N:151253.7295	E:1284779.10
BPCP139	N:151300.0285	E:1284808.31
BPCP140	N:150707.0100	E:1283871.43
BPCP141	N:150880.8127	E:1284187.30
BPCP142	N:150834.8335	E:1284213.74

BPCP143	N:150612.8502	E:1284231.01
BPCP144	N:150603.3789	E:1284236.78
BPCP145	N:150606.7517	E:1284240.81
BPCP146	N:150580.1279	E:1284257.41
BPCP147	N:150571.0289	E:1284283.10
BPCP148	N:150054.1411	E:1284288.21
BPCP149	N:150533.4832	E:1284275.85
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BPCP151	N:150547.0071	E:1284290.38
BPCP152	N:150647.0586	E:1284293.84
BPCP153	N:150570.1598	E:1284362.58
BPCP154	N:150541.0231	E:1284293.88
BPCP155	N:150521.3380	E:1284273.72
BPCP156	N:150484.4388	E:1284250.27
BPCP157	N:150485.7736	E:1284177.20
BPCP158	N:150540.0788	E:1283721.41
BPCP159	N:150718.6259	E:1283710.28
BPCP160	N:150763.3919	E:1283968.20
BPCP161	N:151388.4828	E:1284387.38
BPCP162	N:151307.8782	E:1284844.24
BPCP163	N:151285.9024	E:1284821.05
BPCP164	N:151157.4848	E:1284728.58
BPCP165	N:151098.0130	E:1284438.93
BPCP166	N:150923.3310	E:1284556.85
BPCP167	N:150807.8886	E:1284540.63
BPCP168	N:150702.0184	E:1284468.52
BPCP169	N:150659.4252	E:1284191.53
BPCP170	N:150625.2050	E:1284273.57
BPCP171	N:150777.0848	E:1284098.52
BPCP172	N:150785.2877	E:1284100.32
BPCP173	N:150789.8106	E:1284098.32
BPCP174	N:150787.5288	E:1284088.32
BPCP175	N:150800.3746	E:1284093.52
BPCP176	N:150834.0020	E:1284093.21
BPCP177	N:150834.8848	E:1284102.13
BPCP178	N:150846.8188	E:1284100.04

BPCP183	N:150848.8356	E:1284112.49
BPCP184	N:150855.2008	E:1284109.18
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BPCP187	N:150906.5537	E:1284147.12
BPCP188	N:150912.3117	E:1284144.49
BPCP189	N:150921.5803	E:1284151.91
BPCP190	N:150921.8453	E:1284160.14
BPCP191	N:150928.7883	E:1284184.49
BPCP192	N:150928.8480	E:1284153.08
BPCP193	N:150938.2458	E:1284182.78
BPCP194	N:150945.3235	E:1284180.24
BPCP195	N:150948.4021	E:1284163.89
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BPCP197	N:150930.1433	E:1284207.47
BPCP198	N:150925.7158	E:1284214.96
BPCP199	N:150915.8858	E:1284218.62
BPCP200	N:150912.3358	E:1284221.21
BPCP201	N:150901.2971	E:1284225.02
BPCP202	N:150896.4309	E:1284230.80
BPCP203	N:150874.5803	E:1284238.31
BPCP204	N:150886.9894	E:1284234.48
BPCP205	N:150843.9847	E:1284225.15
BPCP206	N:150839.4786	E:1284223.30
BPCP207	N:150833.5782	E:1284212.75
BPCP208	N:150828.0159	E:1284216.72
BPCP209	N:150817.8780	E:1284203.50
BPCP210	N:150815.2558	E:1284198.54
BPCP211	N:150813.2380	E:1284184.55
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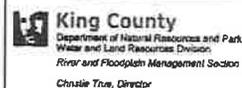
PARK CONTROL POINT TABLE
NTS

A

ISSUED JOB NO./SUBJOB		FUNDING:	
CHECKED:		PROJECT NO.	1112058
DATE DATED: 02/01/11		CONTRACT NO.	CD1415020
DESIGNED: 02/08/11	MM. REVISION	BY	DATE
CHECKED: 08/11/2018			
SUPERVISOR: 08/11/2018			
RECORD CHANGES APPROVED BY	DATE		

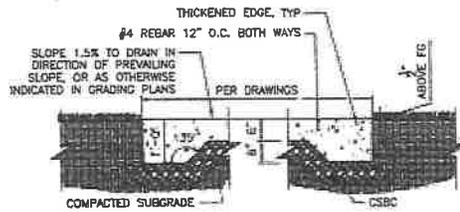


11/27/19

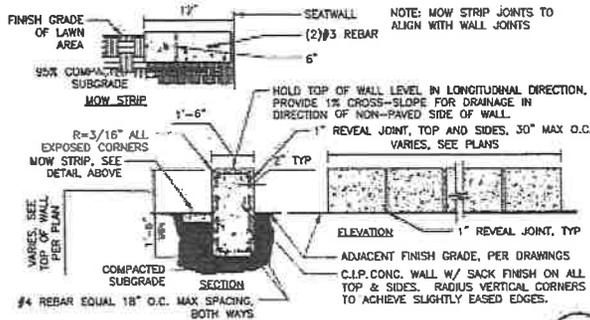


LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
LAYOUT & GRADING
PLAN CONTROL POINTS

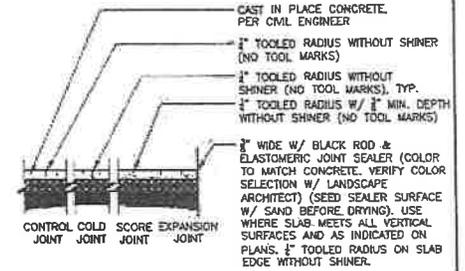
SHEET
LP-28



PICNIC TABLE CONCRETE PAD
SCALE: 3/4"=1'-0"

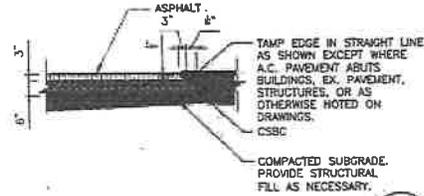


C.I.P. CONCRETE SEAT WALL
SCALE: 1/2"=1'-0"

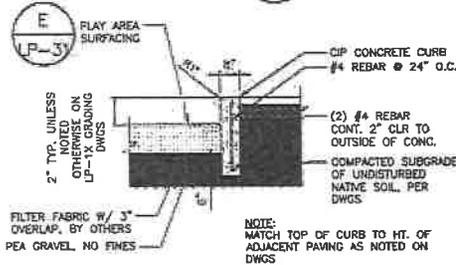


CONCRETE PAVING JOINTS
SCALE: 1/2"=1'-0"

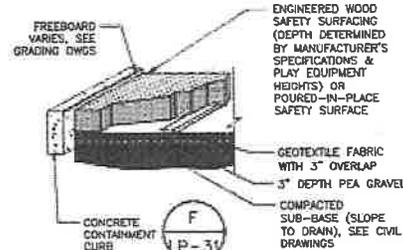
NOTE: PROVIDE CROSS SLOPE PER GRADING PLANS. WHERE NO CROSS-SLOPE IS INDICATED BASED ON GRADING PLANS, PROVIDE CROSS SLOPE 1.5% DOWN IN DIRECTION OF PREVAILING DRAINAGE, OR CROWN IF PATH IS AT HIGH POINT IN RELATION TO ADJACENT GRADING.



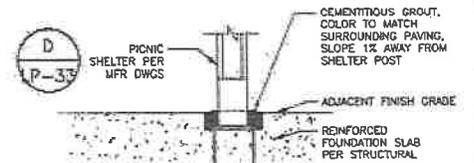
ASPHALT PAVING AT PATHWAYS
SCALE: 1/2"=1'-0"



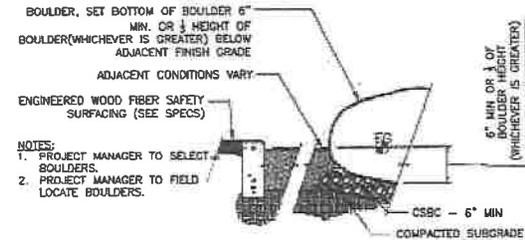
CONTAINMENT CURB
SCALE: 1/2"=1'-0"



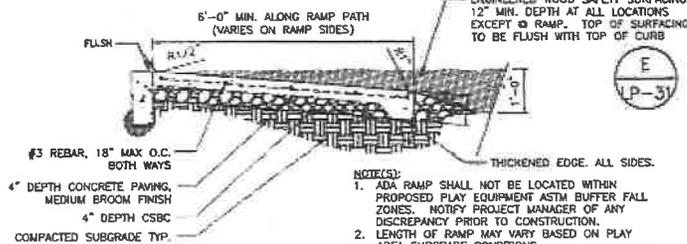
PLAY AREA SURFACING
SCALE: 1/2"=1'-0"



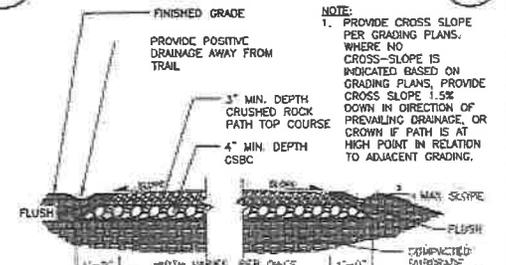
PICNIC SHELTER FOOTING
SCALE: 1/2"=1'-0"



BOULDER FOUNDATION
SCALE: 3/4"=1'-0"



C.I.P. CONCRETE RAMP
SCALE: 3/4"=1'-0"



CRUSHED ROCK PAVING
SCALE: 3/4"=1'-0"

SUPPORT JOB NO./REVISION:		REVISION:	
ORDERED:		BY:	DATE:
DATE ORDERED:	11/27/19	PROJECT No.:	1112056
DESIGNED:		CONTRACT No.:	CD1413C20
CHECKED:			
SUPERVISOR:			
RECORD CHANGES APPROVED:		BY:	



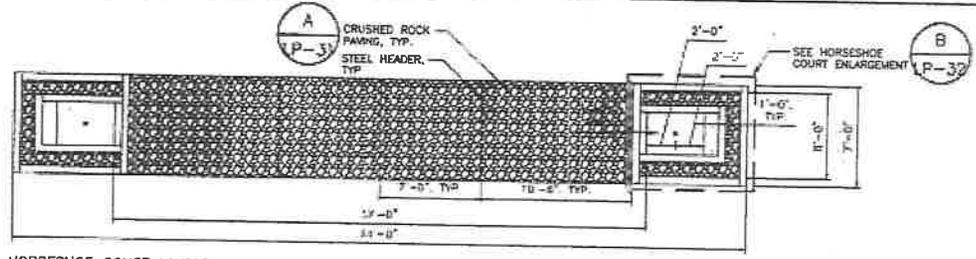
11/27/19



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Water and Land Resources Division
River and Floodplain Management Section
Christie Trum, Director

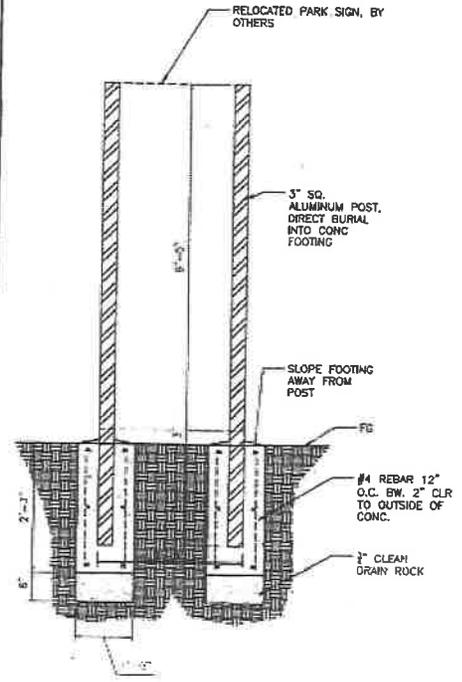
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
LANDSCAPE PARK DETAILS

SHEET
LP-31

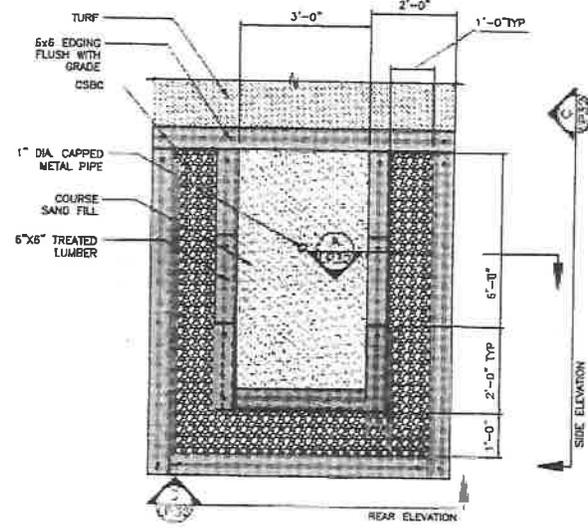


HORSESHOE COURT LAYOUT

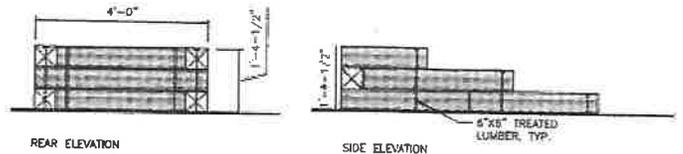
HORSESHOE COURT LAYOUT
 SCALE: 1/4" = 1'-0"



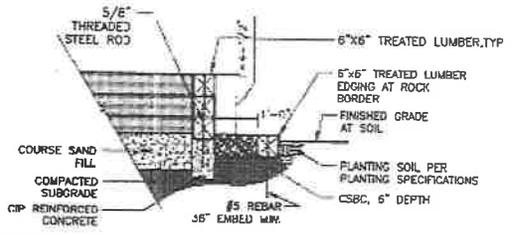
PARK SIGN FOOTING
 SCALE: 1" = 1'-0"



HORSESHOE COURT ENCLOSURE PLAN ENLARGEMENT
 SCALE: 3/4" = 1'-0"



HORSESHOE COURT ENCLOSURE ELEVATIONS
 SCALE: 3/4" = 1'-0"



HORSESHOE COURT ENCLOSURE SECTION
 SCALE: 3/4" = 1'-0"

SURVEY AND MEASUREMENTS:									
CHECKED:									
CG DATED:	02/28	11/27/19							
DESIGNED:	02/28	11/27/19	REV.	REVISION	BY	DATE			
CHECKED:	08	11/27/19							
SUPERVISOR:	08	11/27/19							
			MAN	RECORD CHECKS APPROVED	BY	DATE			

FUNDING:	
PROJECT No.	1112056
CONTRACT No.	CD1415C20



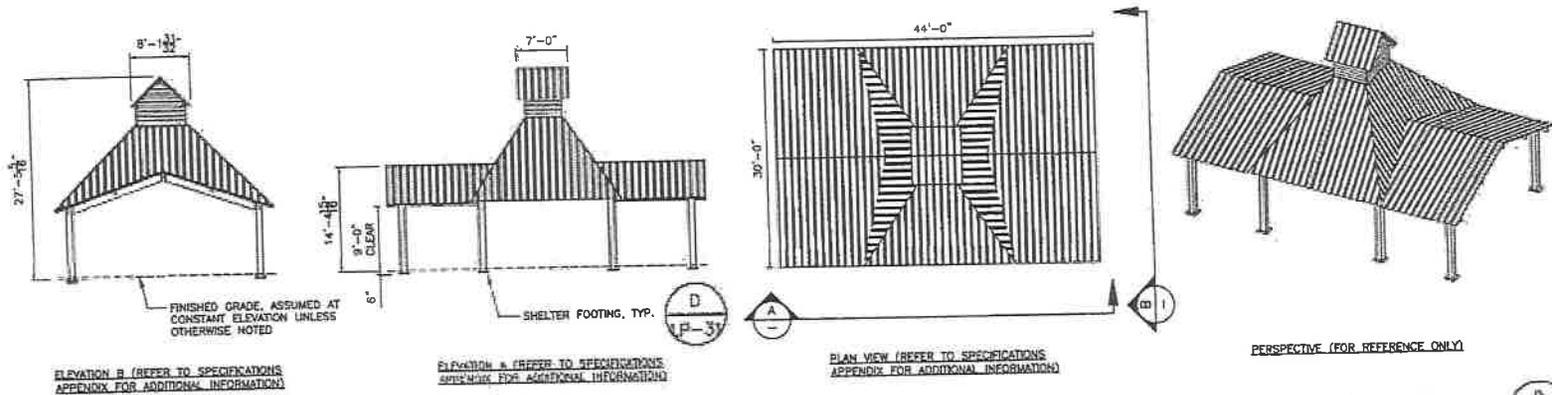
11/27/19



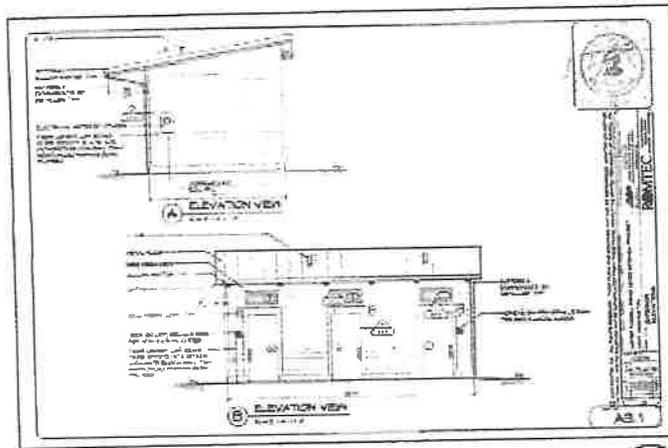
King County
 Department of Natural Resources and Parks
 Wild and Land Resources Division
 River and Floodplain Management Section
 Christa Trow, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
LANDSCAPE PARK DETAILS

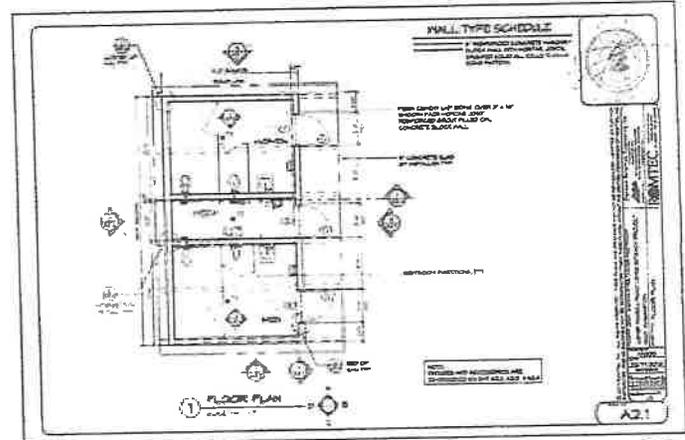
SHEET
 LP-32



SHELTER
SCALE: 1/8"=1'-0"



RESTROOM - ELEVATIONS
NTS



RESTROOM - PLAN
NTS

SURVEY JOB NO./SOURCE:					
CHECKED:	11/28	11/27/19			
DWG. EXTENDED:	11/28	11/27/19	MM	REVISION	BY DATE
DESIGNED:					
CHECKED:	08	11/27/19			
SUPERVISOR:	08	11/27/19			
DATE:			NEEDS CHANGES APPROVED BY DATE:		

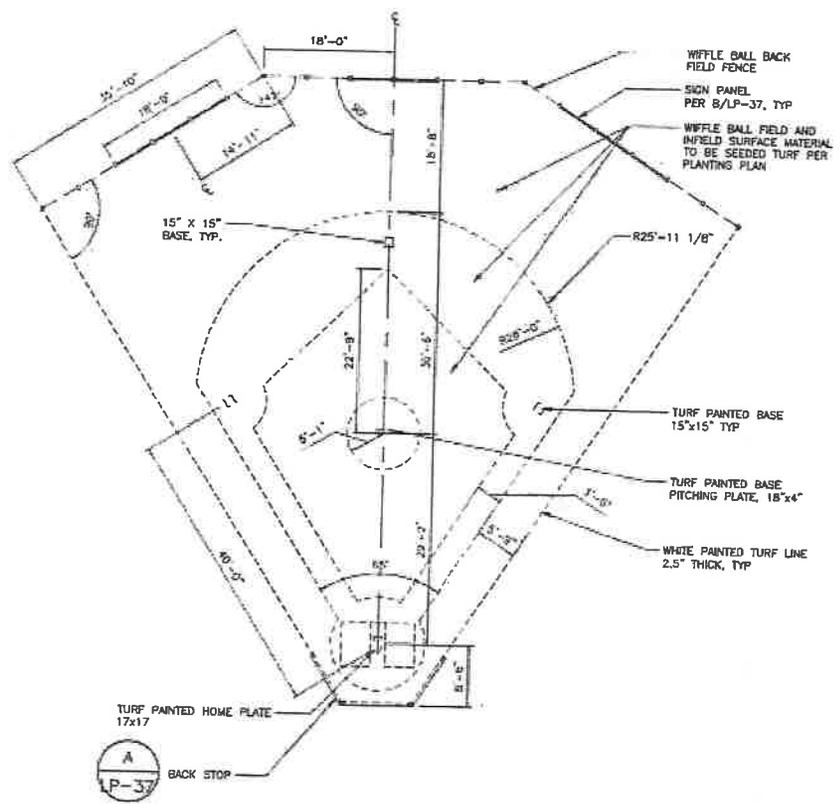
FUNDING: _____
PROJECT No. 1112059
CONTRACT No. C01415C20



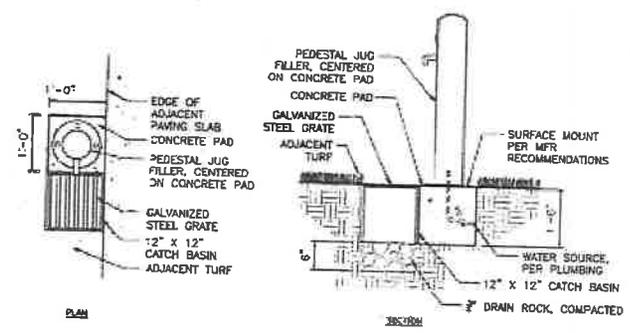
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christa Truss, Director

LOWER RUSSELL, LEVEE SETBACK PROJECT
PHASE 2
LANDSCAPE PARK DETAILS

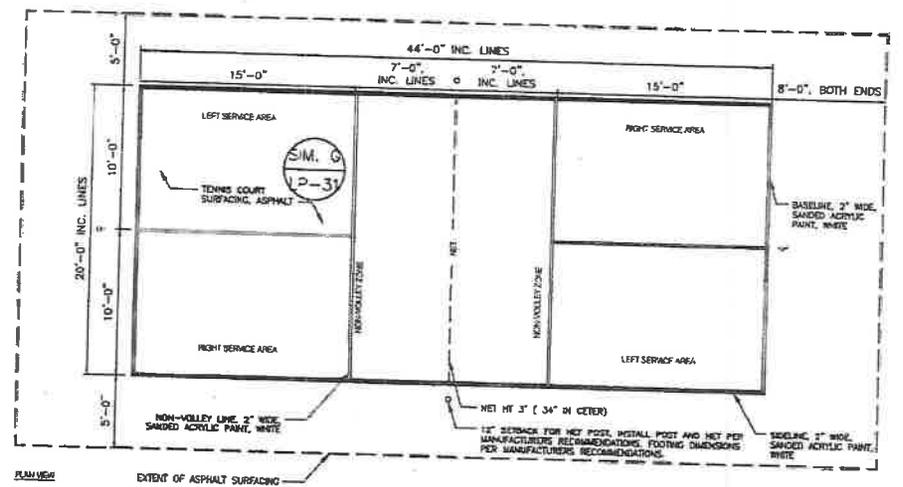
SHEET
LP-33



WIFFLE BALL FIELD
SCALE: 1/8"=1'-0"



PEDESTAL JUG FILLER
SCALE: 1"=1'-0"



PICKLEBALL COURT
SCALE: 1/4"=1'-0"

SURVEY JOB NO./SUBJOB:		PLANNING:	
DESIGNED:	01/08 11/27/18	PROJECT No.	1112056
DWG EXTENDED:	02/20 11/27/18	CONTRACT No.	CD1415C20
DESIGNED:	02/20 11/27/18	REVISION	BY DATE
CHECKED:	06 11/27/18		
SUPERVISOR:	06 11/27/18		
		RECORD CHANGES APPROVED:	BY DATE



11/27/19



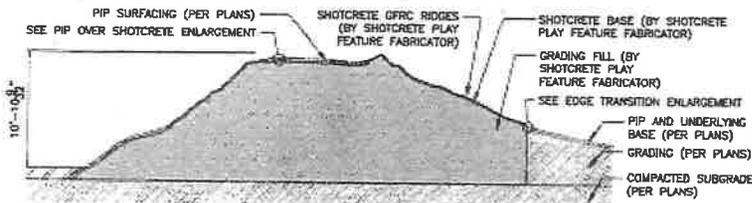
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Chelsea Tom, Director

LOWER FUSSELL LEVEE SETBACK PROJECT
PHASE 2
LANDSCAPE PARK DETAILS

SHEET
LP-34

NOTES:

1. REFER TO PLANS FOR GRADING.
2. SUBMIT DETAIL SHOP DRAWINGS FOR ALL COMPONENTS FOR APPROVAL PRIOR TO FABRICATION.
3. GFRC RIDGES SHALL BE FORMED, COLORED, AND TEXTURED TO REPLICATE ROCK FORMATIONS.
4. SUBMIT MATERIAL SAMPLE FOR SHOTCRETE FINISHES AND COLORS FOR APPROVAL PRIOR TO FABRICATION.



SHOTCRETE PLAY FEATURE OVERALL TYPICAL SECTION
SCALE: 1/4" = 1'-0"



DESIGN INTENT - VIEW 1
(SEE PLAN FOR LOCATION)



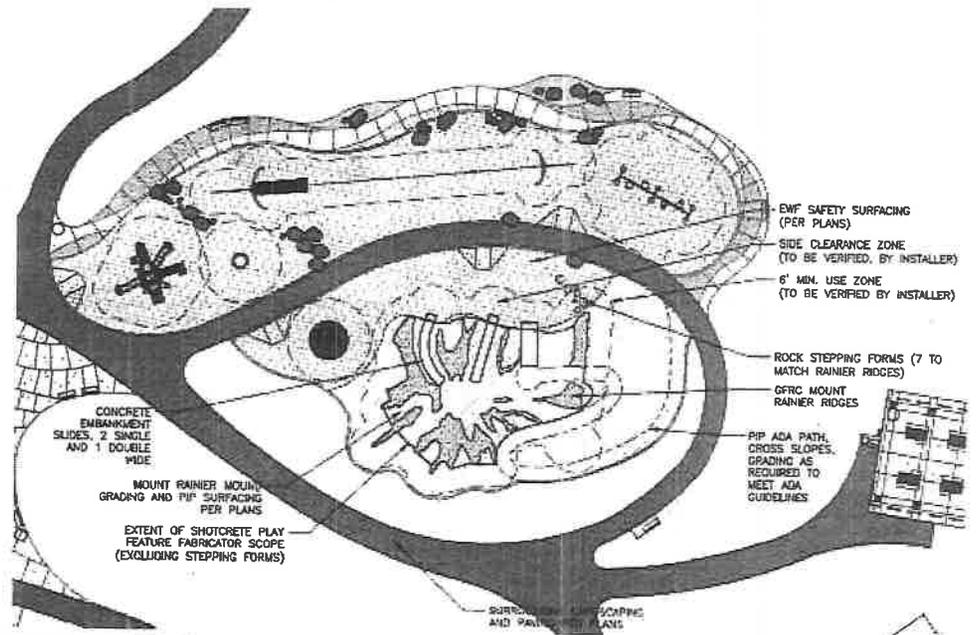
DESIGN INTENT - VIEW 2
(SEE PLAN FOR LOCATION)



ENLARGEMENT - EDGE TRANSITION
(NTS)



ENLARGEMENT - PIP OVER SHOTCRETE
(NTS)



OVERALL PLAN ENLARGEMENT DIAGRAM
SCALE: 1/4" = 1'-0"

THEMATIC STRUCTURE - GFRC SHOTCRETE MINI MT. RAINIER

SURVEY JOB NO./SOURCE				FUNDING:			
DESIGNED:	11/27/19	MAN:		PROJECT No.:	1112006	BY:	
CHECKED:	08/11/20/18	REVISION:		CONTRACT No.:	CD1415C20	DATE:	
SUPERVISOR:	08/11/20/18	REQS. CHANGED APPROVED BY:					



11/27/19

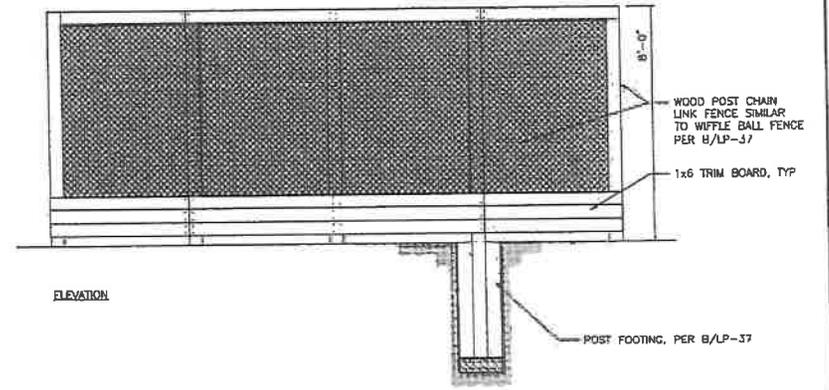
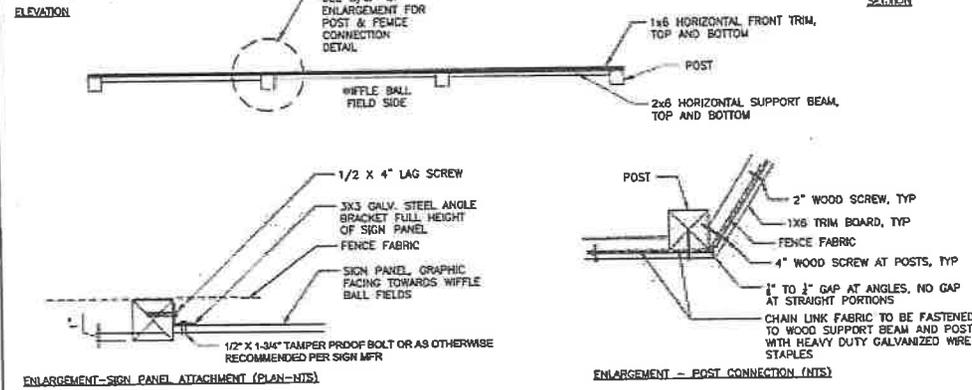
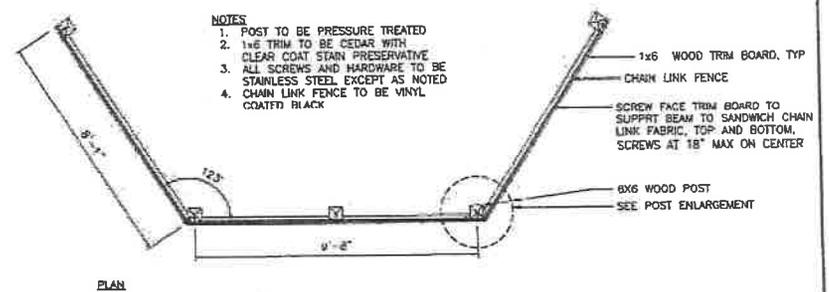
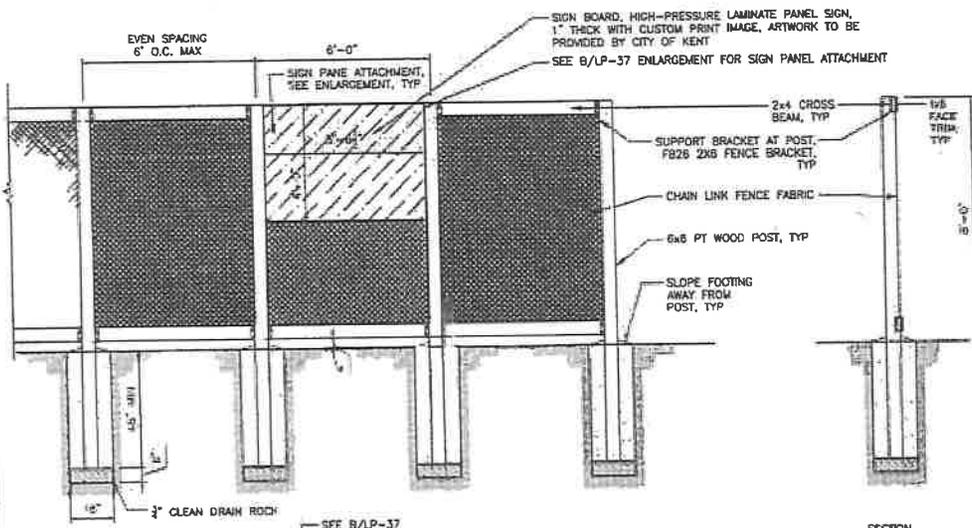


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Wildlife and Land Resources Division
River and Floodplain Management Section
Chelsea Tye, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
LANDSCAPE PARK DETAILS

A

SHEET
LP-36



WIFFLE BALL BACKFIELD FENCE

WIFFLE BALL BACKSTOP

SURVEY JOB NO./SUBJECT:		FINANCING:	
CHECKED:		PROJECT No.:	1112058
CAD ENTERED:	02/08 11/27/18	CONTRACT No.:	001415C20
DESIGNED:	02/08 11/27/18		
CHECKED:	02 11/27/18		
SUPERVISOR:	02 11/27/18		
MAIL:	RECORDS CHANGES APPROVED	BY:	DATE:



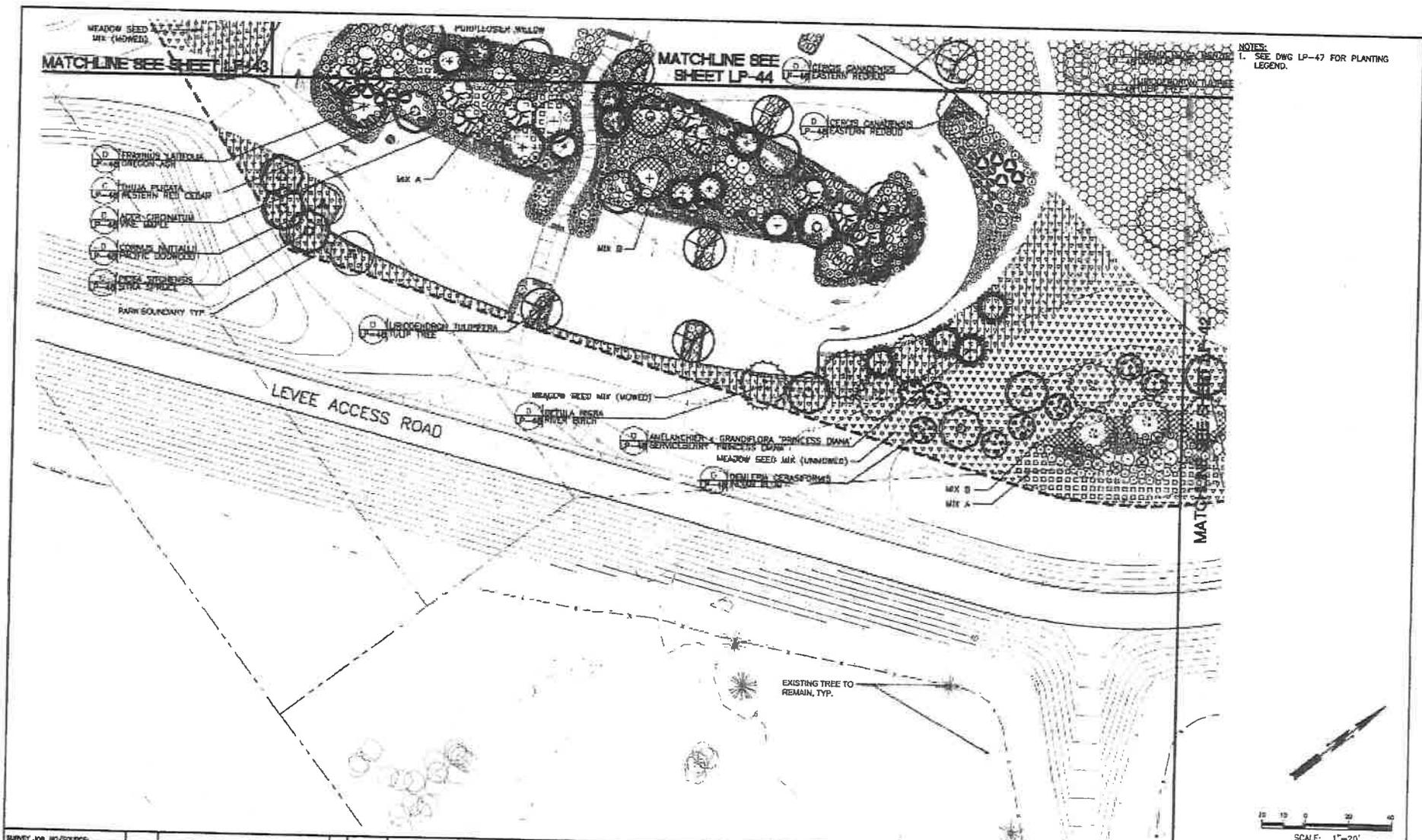
11/27/19



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Trice, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
LANDSCAPE PARK DETAILS**

SHEET
LP-37



NOTES:
1. SEE DWG LP-47 FOR PLANTING LEGEND.

SURVEY JOB NO./SOURCE:		FUNDING:	
CHECKED:		PROJECT No.	1112056
CAD ENTERED:	11/27/19	CONTRACT No.	001415C20
DESIGNED:	02/08 11/27/18	11/27/19	
CHECKED:	08 11/27/18	REVISION BY DATE	
SUPERVISOR:	08 11/27/18	RECORD CHANGES APPROVED BY DATE	



11/27/19

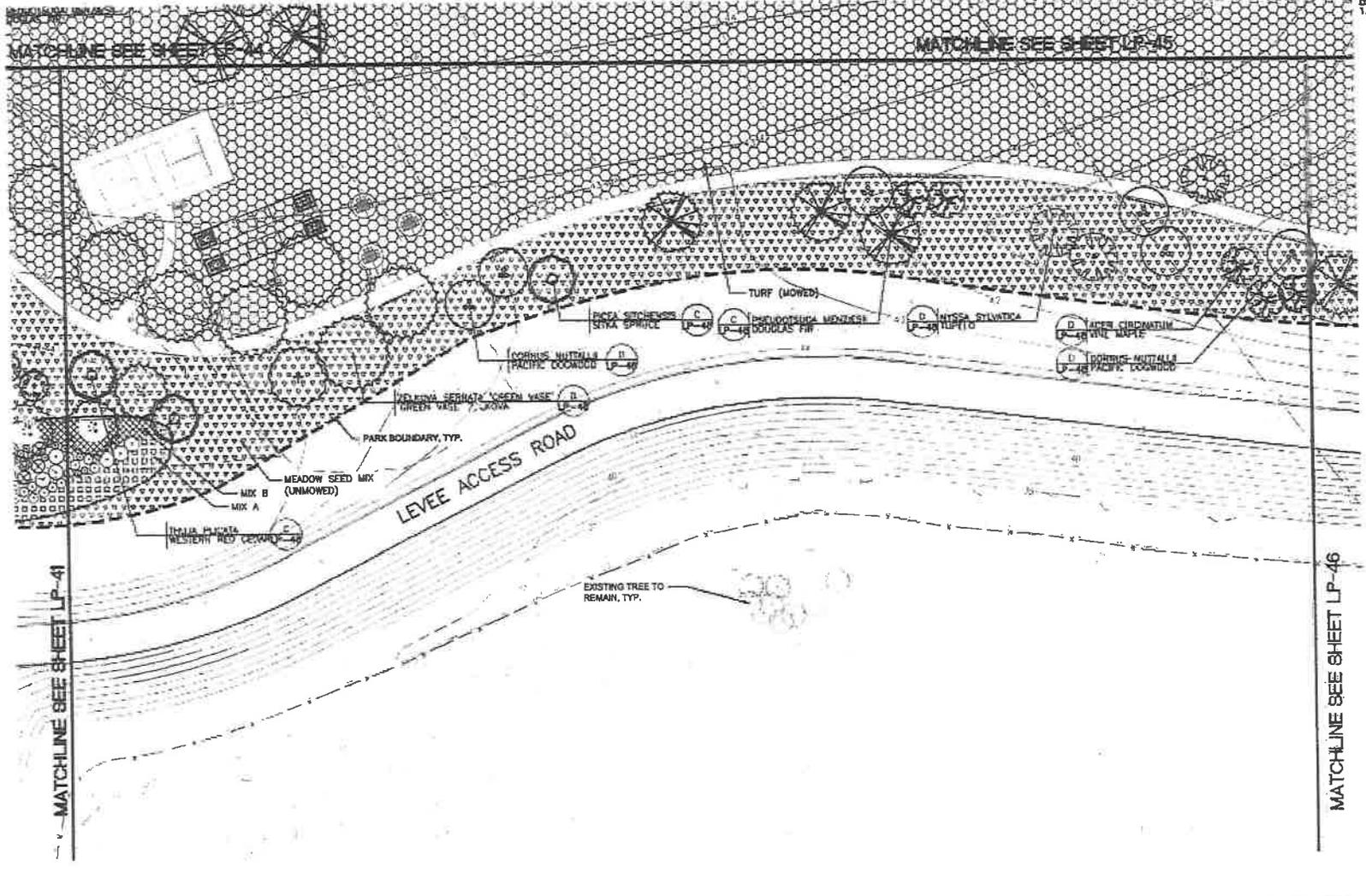


King County
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Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PLANTING
PLAN A**

SHEET
LP-41

NOTES:
1. SEE DWG LP-47 FOR PLANTING LEGEND.



SURVEY JOB NO./SOURCE:					
CHECKED:					
CAD ENTERED:	11/18	11/22/19			
DESIGNED:	11/20	11/22/19	MJM	REVISION	BY DATE
CHECKED:	05	11/22/19			
SUPERVISOR:	05	11/22/19			
	MJM	ISSUING CHANGES APPROVED	BY	DATE	

FUNDING:

PROJECT No. 1112058

CONTRACT No. C01415C20

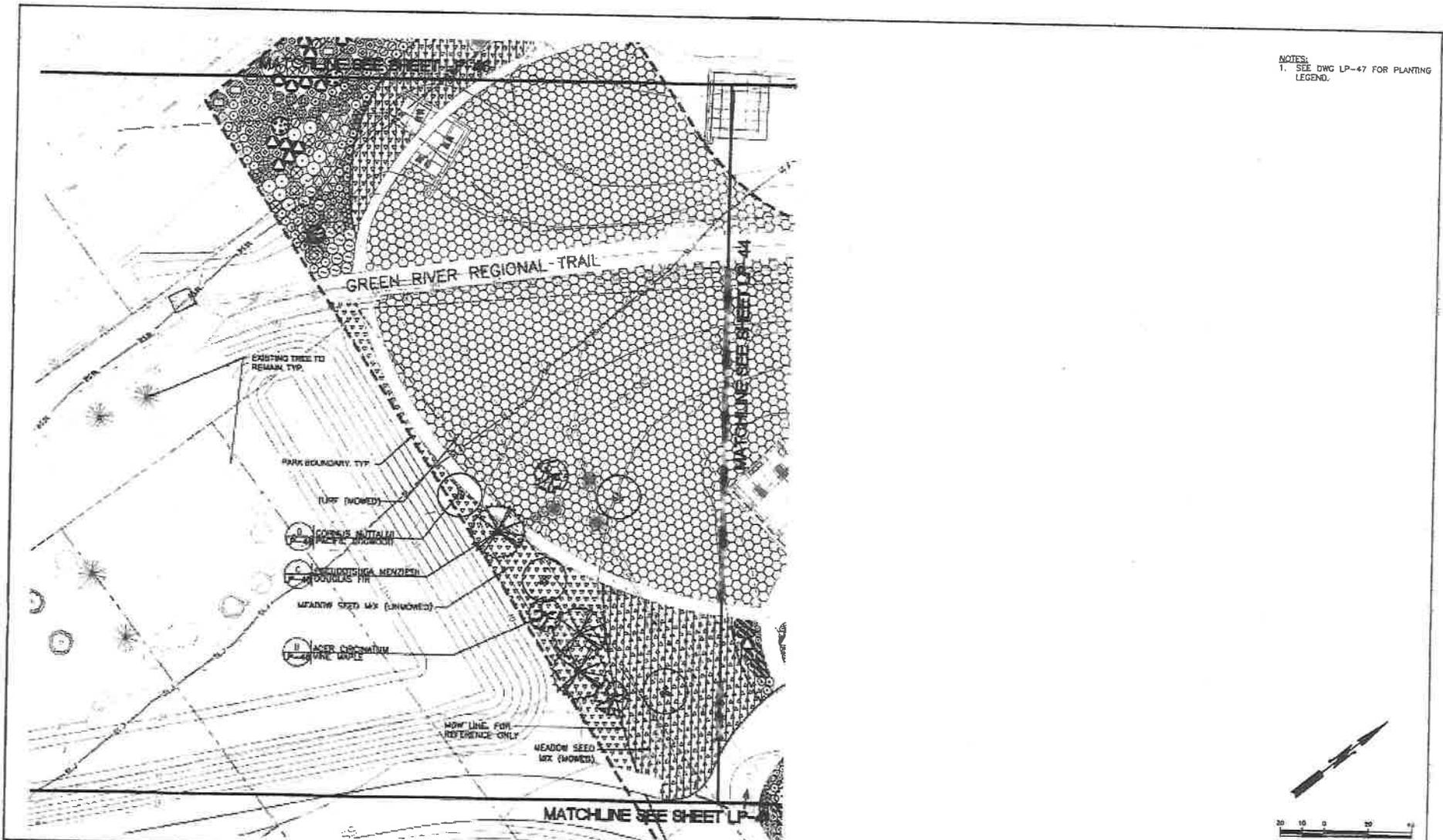


King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Trice, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PLANTING
PLAN B

SHEET
LP-42

NOTES:
1. SEE DWG LP-47 FOR PLANTING LEGEND.



SURVEY JOB NO./SOURCE:		FUNDING:	
CHECKED:		PROJECT No.	1192066
DATE ENTERED:	11/27/19	CONTRACT No.	C01415C20
DESIGNED:	11/27/19	REVISION	BY DATE
CHECKED:	11/27/19		
SUPERVISOR:	11/27/19		
RECORD CHANGES APPROVED:	BY DATE		

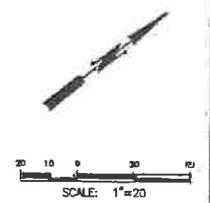
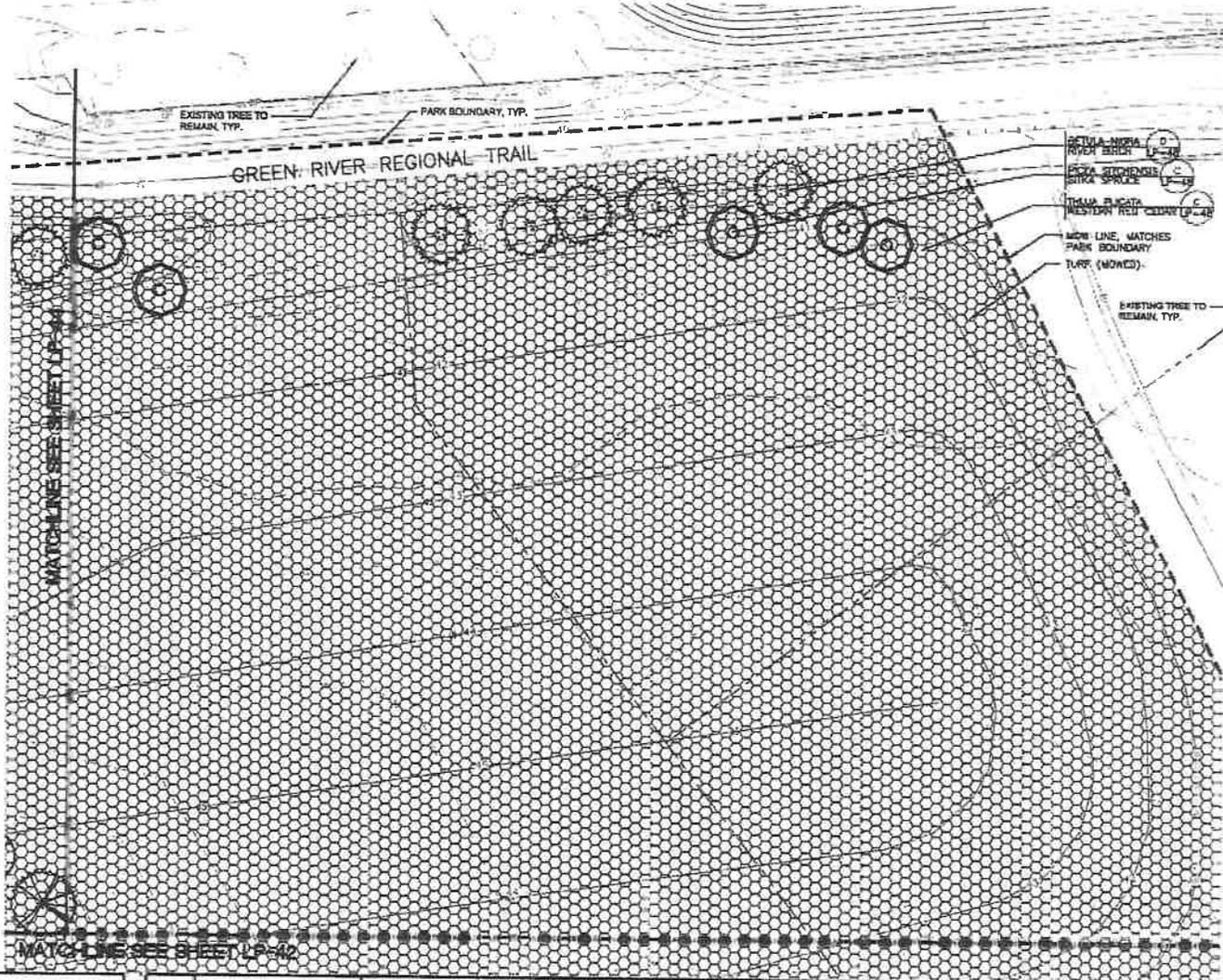


King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Chavla Tive, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PLANTING
PLAN C

SHEET
LP-43

NOTES:
1. SEE DWG LP-47 FOR PLANTING LEGEND.



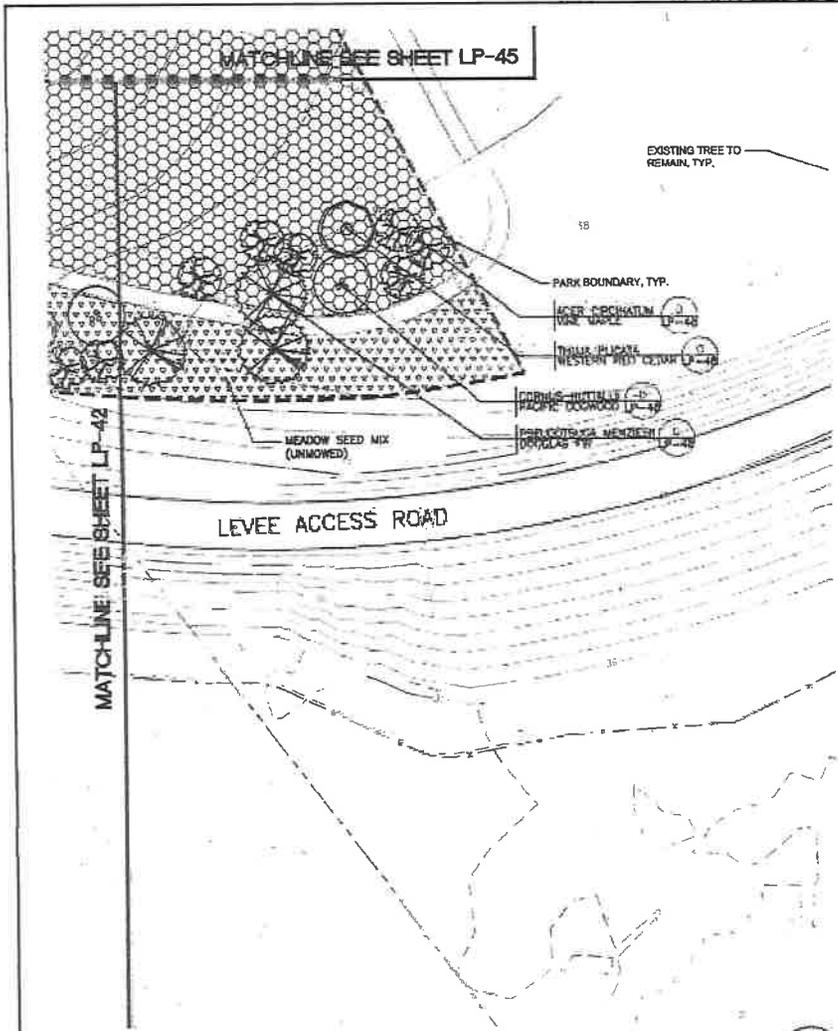
SURVEY JOB NO./SUBJECT					
CHECKED:	JT/ST	11/23/18			
DWG. EXTENDED:	02/08	11/21/18			
DESIGNED:	08	11/22/18			
CHECKED:	08	11/22/18			
SUPERVISOR:	08	11/20/18			
			RECORD CHANGES APPROVED	BY	DATE

FUNDING	
PROJECT No.	1112058
CONTRACT No.	CD1415C20

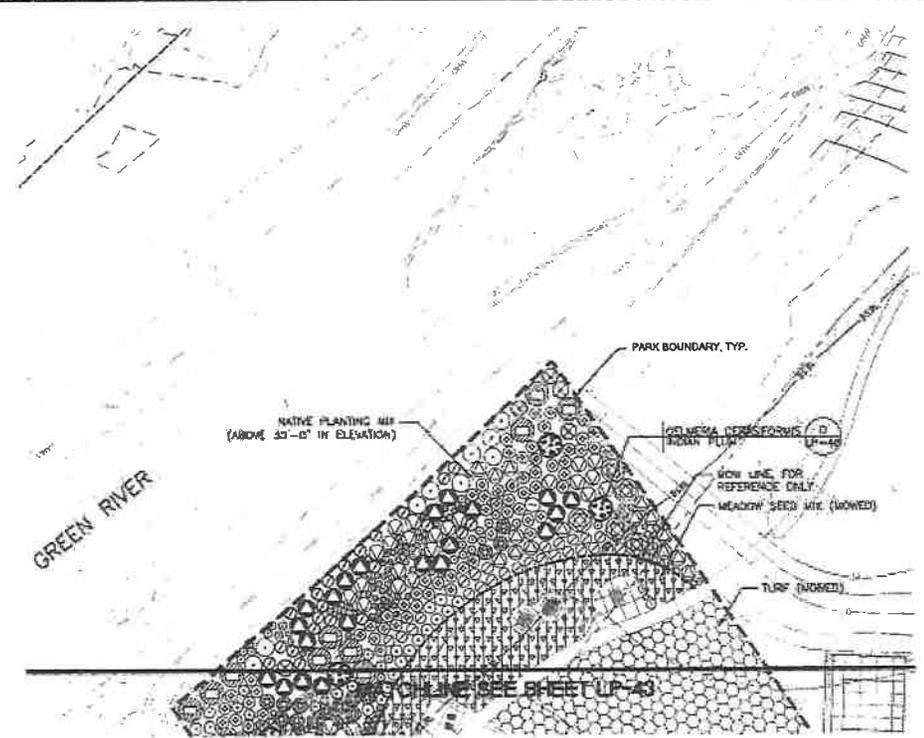


King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Truss, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PLANTING PLAN E
SHEET LP-45

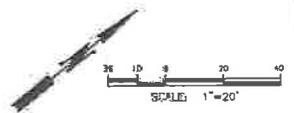


PLANTING AREA G
SCALE: 1"=20'-0"



PLANTING AREA F
SCALE: 1"=20'-0"

NOTES:
1. SEE DWG LP-47 FOR PLANTING LEGEND.



SURVEY JOB NO./SOURCE:		FUNDING:	
CHECKED:		PROJECT No.	1112058
CAD ENTERED:	02/08 11/27/18	CONTRACT No.	C01415C20
DESIGNED:	02/09 11/27/18	NUM.	REVISION
CHECKED:	08 11/27/18	BY	DATE
SUPERVISOR:	08 11/27/18	RECORD CHANGES APPROVED BY	DATE



11/27/18



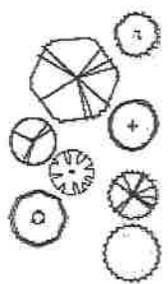
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Chivella Trive, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PLANTING PLAN F & G

SHEET
LP-46

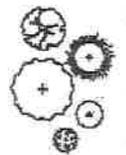
VAN DOREN'S PARK PLANT LIST

TREES			
QTY	BOTANICAL NAME	COMMON NAME	SIZE
17	BETULA NIGRA	RIVER BIRCH	8' HT
26	ACER MACROPHYLLUM	BIG LEAF MAPLE	10' HT
15	FRAXINUS LATIFOLIA	OREGON ASH	8' HT
15	LIRIODENDRON TULIPIFERA	TULIP TREE	8' HT
7	NYSSA SYLVATICA	TUPELO	8' HT
16	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	8' HT
20	THUJA PLICATA	WESTERN RED CEDAR	8' HT
7	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE ZELKOVA	8' HT



TREES - SMALL DECIDUOUS

QTY	BOTANICAL NAME	COMMON NAME	SIZE
26	ACER CIRCINATUM	VINE MAPLE	6' HT / B&B
32	AMELANCHIER X GRANDIFLORA 'PRINCESS DIANA'	SERVICEBERRY	8' HT / B&B /
3	CERCIS CANADENSIS	EASTERN REDBUD	8' HT / 2" MIN
13	CORNUS NUTTALLII	PACIFIC DOGWOOD	8' HT / 2" MIN
6	CELMERIA CERASIFORMIS	INDIAN PLUM	#5



SHRUBS

QTY	BOTANICAL NAME	COMMON NAME	SIZE
16	ARCTOSTAPHYLOS COLUMBIANA 'OREGON HYBRID'	HAIRY MANZANITA	#5
35	ARUNCUS DIODICUS VAR. ACUMINATUS	GOATSBEARD	#3
50	BRACHYLOTTIS 'SILVER DORMOUSE'	BRACHYLOTTIS 'SILVER DORMOUSE'	#3
16	CARPENTERIA CALIFORNICA	BUSH ANEMONE	#5
62	CORNUS SANGUINEA 'ARCTIC SUN'	'ARCTIC SUN' REDTNG DOGWOOD	#3
24	CORNUS SANGUINEA 'MIDWINTER FIRE'	BLOODWING DOGWOOD	#5
37	CORNUS SERICEA	REDTWIG DOGWOOD	#5
108	GAULTHERIA SHALLON	SALAL	#3
10	HOLODISCUS DISCOLOR	OCEANSPRAY	#5
41	HYDRANGEA QUERCIFOLIA 'SNOWQUEEN'	OAKLEAF HYDRANGEA	#5
22	LONICERA INVOLUCRATA	THIMBERRY HONEYSUCKLE	#5
14	LONICERA PILEATA	BOXLEAF HONEYSUCKLE	#3
238	MAHONIA NERVOSA	CASCADE OREGON GRAPE	#1
83	MAHONIA REPENS	CREEPING OREGON GRAPE	#1
43	RIBES SANGUINEUM	RED-FLOWERING CURRANT	#3
77	SALIX PURPUREA	PURPLEOSIER WILLOW	#5
338	SALVIA GREGGII 'CORAL'	'CORAL' AUTUMN SAGE	#3
70	SARCOCODCA RUSCIFOLIA	SWEETBOX	#5
70	SYMPHORICARPOS ALBUS	SNOWBERRY	#5



SHRUBS (CONT'D)

31	VACCINIUM OVATUM	EVERGREEN HUCKLEBERRY	#5
18	VACCINIUM PARVIFOLIUM	RED HUCKLEBERRY	#5



GRASSES & FERNS

QTY	BOTANICAL NAME	COMMON NAME	SIZE
75	BLECHNUM SPICANT	DEER FERN	#1
332	MISCANTHUS SINENSIS 'YAKU JIMA'	DWARF MAIDEN GRASS	#3
59	OSMUNDA REGALIS 'PURPURASCENS'	PURPLE ROYAL FERN	#3
265	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	#3



GRASS & SEDGES MIXES:

QTY	BOTANICAL NAME	COMMON NAME	SIZE
MIX A: 2386 SF.	35% JUNCUS ENSIFOLIUS	SWORDEAF RUSH	#2 / 2' O.C. (IN GROUPS OF 3)
	35% JUNCUS TENUIS	POVERTY RUSH	#2 / 2' O.C. (IN GROUPS OF 3)
	30% PENNSETUM ALDOPEUROIDES 'HAMELBY'	DWARF FOUNTAIN GRASS	#1 / 2' O.C. (AT LEAST 3' FROM CURBS)
MIX B: 1893 SF.	40% BLECHNUM SPICANT	DEER FERN	#1 / 2' O.C.
	35% JUNCUS PATENS 'ELK BLUE'	ELK BLUE CALIFORNIA GRAY RUSH	#1 / 2' O.C. (IN GROUPS OF 3)
	25% MUHLBERGIA CAPILLARIS 'LENDA'	PINK MURLYGRASS	#1 / 2' O.C. (AT LEAST 3' FROM CURBS)
	MEADOW SEED MIX (UNMOWED): 34,181 SF		
	MEADOW SEED MIX (MOWED): 14,422 SF		
	SEED TURF: 274,945 SF		
	MEADOW SEED MIX PER SPECIFICATIONS.		
	MEADOW SEED MIX PER SPECIFICATIONS.		
	TURF SEED MIX PER SPECIFICATIONS.		



NOTES:
 1. PLANT SIZES NOTED ARE PER 2014 AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1)
 2. SYMBOLS IN PLANTING SCHEDULE ARE NOT TO SCALE AS IN DRAWINGS
 3. QUANTITIES ARE PROVIDED HEREIN FOR REFERENCE ONLY. QUANTITIES OF PLANT SYMBOLS SHOWN IN DRAWINGS AND SPACING REQUIREMENTS TAKE PRECEDENCE OVER QUANTITIES SHOWN HEREIN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE APPROPRIATE QUANTITY OF PLANTS.

SURVEY JOB NO./SCALE:			
CHECKED:			
CAD ENTERED:	11/27/19		
DESIGNED:	11/27/19		
CHECKED:	11/27/19		
SUPERVISOR:	11/27/19		
TOTAL	RECORD CHANGES APPROVED	BY	DATE

FUNDING:	
PROJECT No.	1112056
CONTRACT No.	001415C20



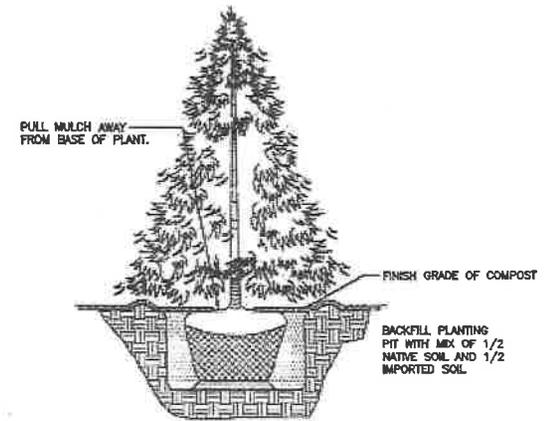
11/27/19



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Truss, Director

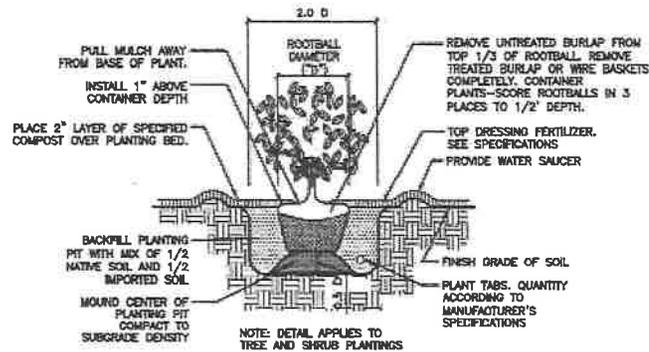
LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 PLANTING LEGEND

SHEET
 LP-47



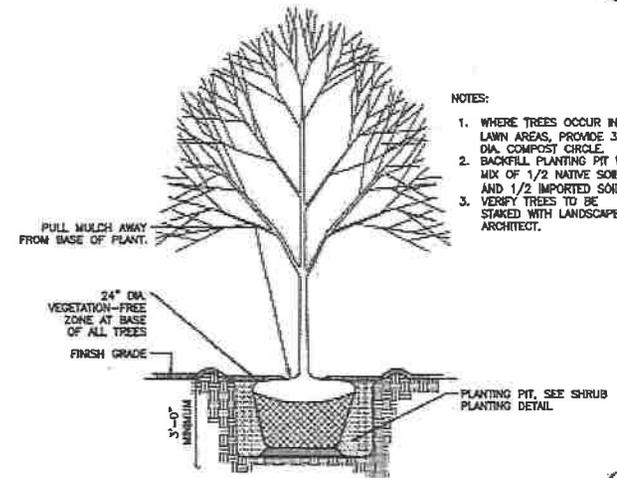
EVERGREEN TREE PLANTING
SCALE: 1/2"=1'-0"

C



SHRUB PLANTING
SCALE: 3/4"=1'-0"

B



DECIDUOUS TREE PLANTING
SCALE: 1/2"=1'-0"

D

- NOTES:
- WHERE TREES OCCUR IN LAWN AREAS, PROVIDE 3' DIA. COMPOST CIRCLE.
 - BACKFILL PLANTING PIT WITH MIX OF 1/2 NATIVE SOIL AND 1/2 IMPORTED SOIL.
 - VERIFY TREES TO BE STAKED WITH LANDSCAPE ARCHITECT.

GENERAL NOTE FOR PLANTING DETAILS:
1. REMOVE ALL WIRE BASKETS AND ALL BURLAP FROM ALL PLANTS THAT COME WITH THEM.

SURVEY JOB NO./SUBJOB:		Revised:	
CHECKED:		PROJECT No.	1112056
DATE ENTERED:	01/11/19	CONTRACT No.	CO1415C20
DESIGNED:	01/22/19	DATE:	11/27/19
CHECKED:	08/15/20		
SUPERVISOR:	08/11/21		
		RECORD CHANGES APPROVED BY:	SITE:



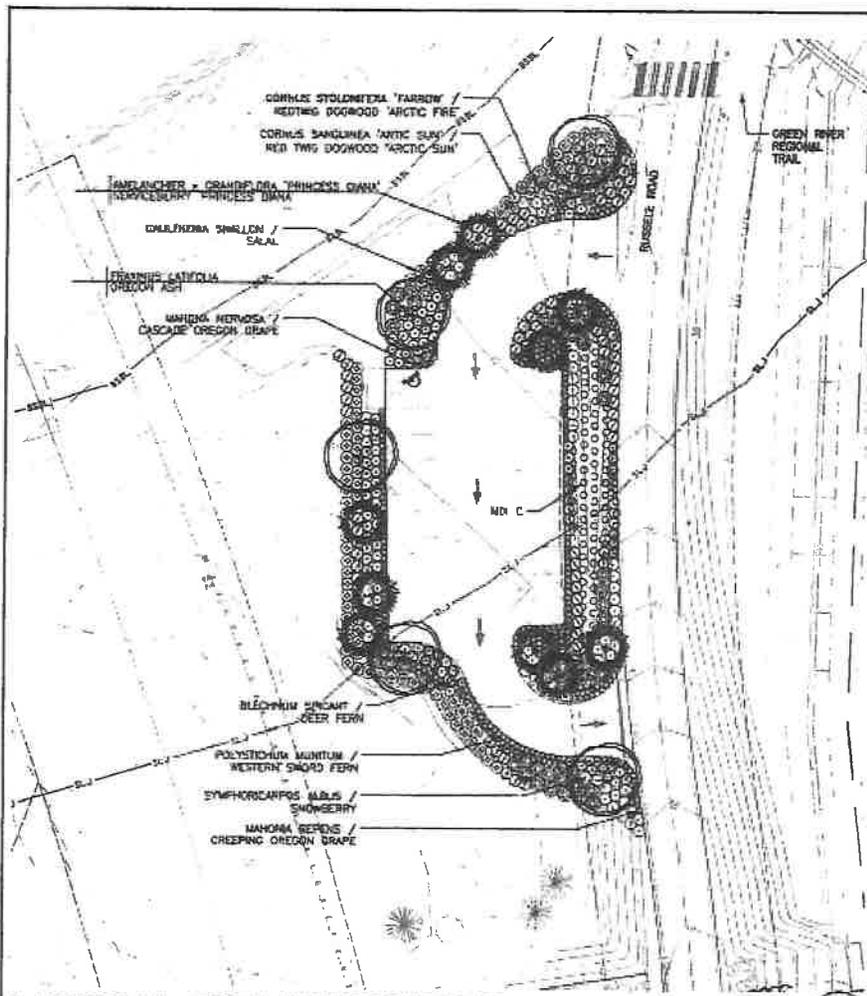
11/27/19



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

**LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PLANTING DETAILS**

SHEET
LP-48

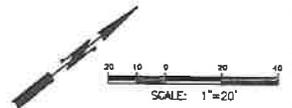


PLANTING PLAN - RUSSELL WOODS PARKING LOT
SCALE: 1"=20'-0"

RUSSELL WOODS PARKING LOT - PLANT SCHEDULE

QTY	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
TREES				
+	FRAXINUS LATIFOLIA	OREGON ASH	8' HT 2" MIN CAL	
TREES - SMALL DECIDUOUS				
+	AMELANCHIER X GRANDIFLORA 'PRINCESS DIANA'	SERVICEBERRY	8' HT, 2" MIN CAL	MULTISTEM
SHRUBS				
/	CORNUS SANGUINEA 'ARTIC SUN'	'ARTIC SUN' REDTWIG DOGWOOD	#3	
.	CORNUS STOLONIFERA 'FARROW'	'ARCTIC FIRE' REDTWIG DOGWOOD	#3	
+	GAULTHERIA SHALLON	SALAL	#3	
+	MAHONIA NERVOSA	CASCADE OREGON GRAPE	#1	
+	MAHONIA REPENS	CREEPING OREGON GRAPE	#1	
+	SYMPHORICARPOS ALBUS	SNOWBERRY	#5	
GRASSES & FERNS				
+	BLECHNUM SPICANT	DEER FERN	#1	
+	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	#3	
GROUNDCOVER & SEDGES MIXES:				
MIX C: 1138 SF:	JUNCUS ENSIFOLIUS	SWORDLEAF RUSH	#2 / 2' O.C. (IN GROUPS OF 3)	
	JUNCUS TENUS	POVERTY RUSH	#2 / 2' O.C. (IN GROUPS OF 3)	
	EQUISETUM HYEMALE	SCOURINGRUSH HORSETAIL	#2 / 2' O.C. (IN GROUPS OF 3)	

NOTES:
1. TEMPORARY IRRIGATION TO BE PROVIDED FOR ESTABLISHMENT, N.C. COORDINATE WITH COUNTY PROJECT REPRESENTATIVE TO ENSURE NO CAP IN WATERING AFTER INSTALLATION.



SURVEY JOB NO./SOURCE:		PLANNING:	
CHECKED:		PROJECT No.:	1112058
CAD ENTERED:	21/08 11/25/18	CONTRACT No.:	001415C20
DESIGNED:	21/08 11/25/18	REVISION:	
CHECKED:	08 11/25/18	BY:	
SUPERVISOR:	08 11/27/18	DATE:	
		RECORD CHANGES APPROVED BY:	
		DATE:	



11/27/19



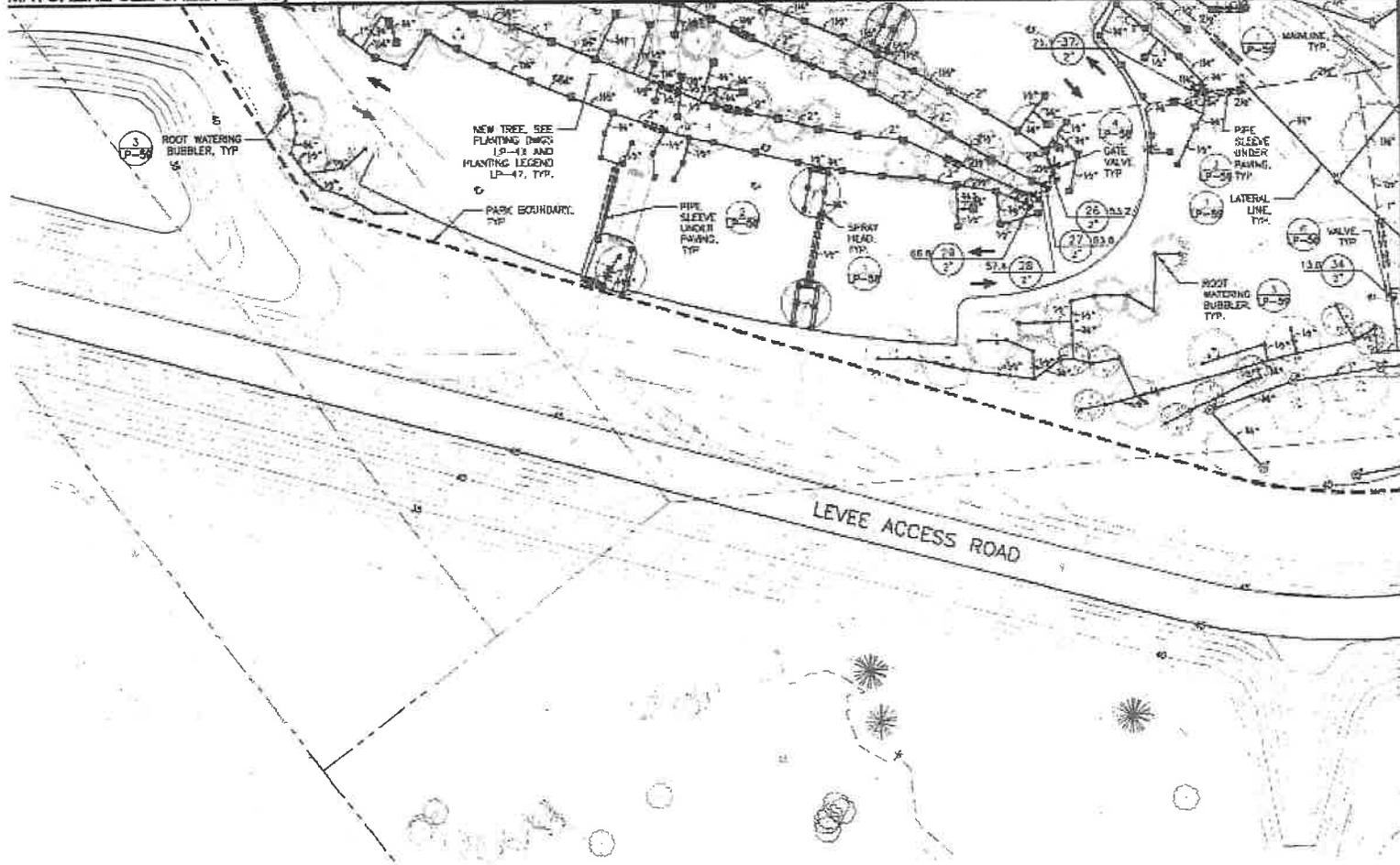
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Truse, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PLANTING PLAN -
RUSSELL WOODS PARKING LOT

SHEET
LP-49

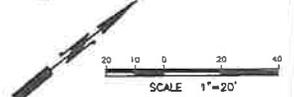
MATCHLINE SEE SHEET LP-53

MATCHLINE SEE SHEET LP-54



- NOTES:
- SEE SHEET LP-57 FOR IRRIGATION SCHEDULE, SYMBOL LEGEND, MECHANICAL SCHEDULE, AND VALVE SCHEDULE.
 - ALL DRAWINGS ARE DIAGRAMMATIC. FIELD VARIANCES MAY OCCUR. NOTIFY PROJECT REPRESENTATIVE IMMEDIATELY.
 - MAINLINE & LOOP LAYOUT IS DIAGRAMMATIC. IT HAS BEEN SHOWN IN HARDSCAPE FOR PURPOSE OF CLARITY.
 - PRIOR TO THE COMMENCEMENT OF WORK, CONTRACTOR MUST VERIFY STATIC WATER PRESSURE (PSI) AT THE POINT OF CONNECTION (EXPECTED RANGE 70-85 PSI). IMMEDIATELY NOTIFY PROJECT REPRESENTATIVE OF RESULTS.
 - IRRIGATION CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL UTILITIES ENCOUNTERED THROUGHOUT THE SCOPE OF WORK.
 - CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY SLEEVING UNDER HARDSCAPES, (I.E. ROADS, SIDEWALKS, ETC.), WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.
 - LOCATE PIPE NEAR PERMANENT STRUCTURES WHERE POSSIBLE, (I.E. ALONG EDGES OF SIDEWALKS, ETC.). LEAVE PIPE SIZING FACE UP IN TRENCH TO FACILITATE REPAIR.
 - ALL UNSIZED TERMINAL LATERAL LINES ARE 3/4" PIPE. LATERAL LINE PIPE IS SIZED FOR PRESSURE, CONSERVATION AND FUTURE EXPANSION. DO NOT UNDERSIZE PIPE.
 - SPRINKLER HEADS SHOULD BE A MAXIMUM OF 4" FROM BED EDGES.
 - VERIFY CONTROLLER LOCATION W OWNER.
 - IRRIGATION CONTRACTOR IS RESPONSIBLE FOR WINTERIZATION OF SYSTEM DURING CONSTRUCTION PERIOD AND WARRANTY PERIOD. CONTRACTOR TO NOTIFY FACILITY MAINTENANCE ONCE WINTERIZATION RESPONSIBILITY ENDS. SYSTEM MUST BE WINTERIZED BY BLOWING OUT WITH COMPRESSED AIR.
 - PIPING MAY BE INSTALLED IN A COMMON TRENCH. ALLOW A MINIMUM OF 4" BETWEEN PARALLEL PIPE LINES. LOCATE TRENCHES TO AVOID CONFLICT WITH INSTALLATION OF TREES & SHRUBS.
 - INSTALL MP ROTATOR NOZZLES AS NOTED ON DWG LP-57. CONTRACTOR RESPONSIBLE FOR FINE TUNING AND ADJUSTING RADIUS TO MAXIMIZE COVERAGE AND MINIMIZE OVERSPRAY ONTO HARDSCAPE SURFACE.

MATCHLINE SEE SHEET LP-52



SURVEY JOB NO./SOURCE:		FLUORINE:	
CHECKED:		PROJECT No.	1112056
CAD ENTERED:	4/18 11/27/18	CONTRACT No.	C01415020
DESIGNED:	4/28 11/27/18	DATE	11/27/19
CHECKED:	08 11/27/18		
SUPERVISOR:	08 11/27/18		
RECORD CHANGES APPROVED BY DATE			

11/27/19



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Tru, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 IRRIGATION
 PLAN A

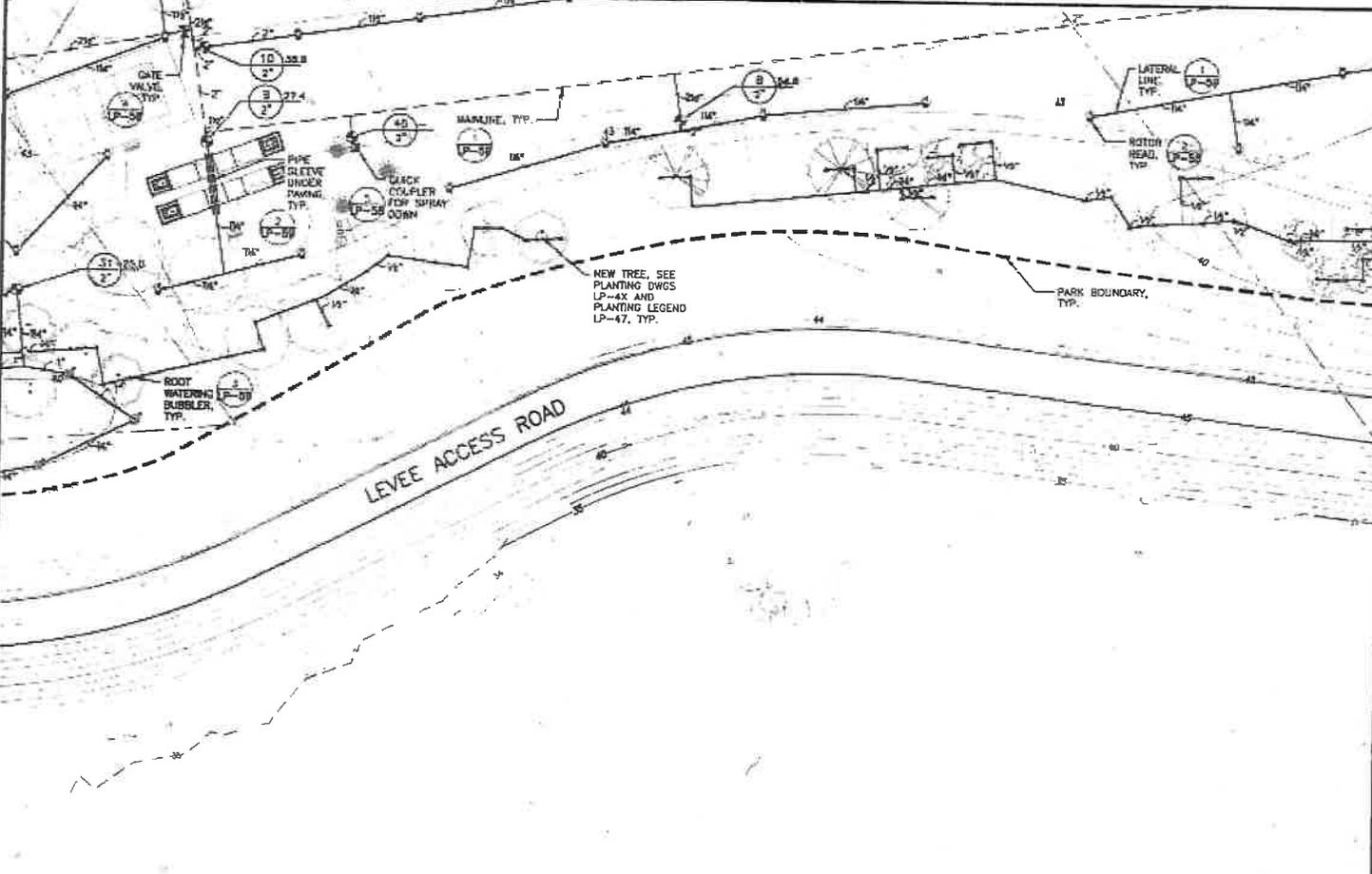
SHEET
 LP-51

MATCHLINE SEE SHEET LP-54

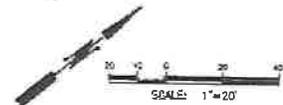
MATCHLINE SEE SHEET LP-55

MATCHLINE SEE SHEET LP-51

MATCHLINE SEE SHEET LP-56



- NOTES:
- SEE SHEET LP-57 FOR IRRIGATION SCHEDULE, SYMBOL LEGEND, MECHANICAL SCHEDULE, AND VALVE SCHEDULE.
 - ALL DRAWINGS ARE DIAGRAMATIC. FIELD VARIANCES MAY OCCUR. NOTIFY PROJECT REPRESENTATIVE IMMEDIATELY.
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 - LOCATE PIPE NEAR PERMANENT STRUCTURES WHERE POSSIBLE, (I.E. ALONG EDGES OF SIDEWALKS, ETC.). LEAVE PIPE SIZING FACE UP IN TRENCH TO FACILITATE REPAIR.
 - ALL UNSIZED TERMINAL LATERAL LINES ARE 3/4" PIPE. LATERAL LINE PIPE IS SIZED FOR PRESSURE CONSERVATION AND FUTURE EXPANSION. DO NOT UNDERSIZE PIPE.
 - SPRINKLER HEADS SHOULD BE A MAXIMUM OF 4" FROM BED EDGES.
 - VERIFY CONTROLLER LOCATION W/ OWNER.
 - IRRIGATION CONTRACTOR IS RESPONSIBLE FOR WINTERIZATION OF SYSTEM DURING CONSTRUCTION PERIOD AND WARRANTY PERIOD. CONTRACTOR TO NOTIFY FACILITY MAINTENANCE ONCE WINTERIZATION RESPONSIBILITY ENDS. SYSTEM MUST BE WINTERIZED BY BLOWING OUT WITH COMPRESSED AIR.
 - PIPING MAY BE INSTALLED IN A COMMON TRENCH. ALLOW A MINIMUM OF 4" BETWEEN PARALLEL PIPE LINES. LOCATE TRENCHES TO AVOID CONFLICT WITH INSTALLATION OF TREES & SHRUBS.
 - INSTALL 1/2" ROTATOR NOZZLES AS NOTED ON DWG LP-57. CONTRACTOR RESPONSIBLE FOR FINE TUNING AND ADJUSTING RADIIUS TO MAXIMIZE COVERAGE AND MINIMIZE OVERSPRAY ONTO HARDSCAPE SURFACE.



SURVEY JOB NO./SOURCE:					
CHECKED:					
DATE ENTERED:	11/27/19				
DESIGNED:	11/27/19	NUM.	REVISION	BY	DATE
CHECKED:	11/27/19				
SUPERVISOR:	11/27/19				
MEM		RECORD CHANGES APPROVED		BY	DATE

PLANNING:	
PROJECT No.	1112056
CONTRACT No.	001415020

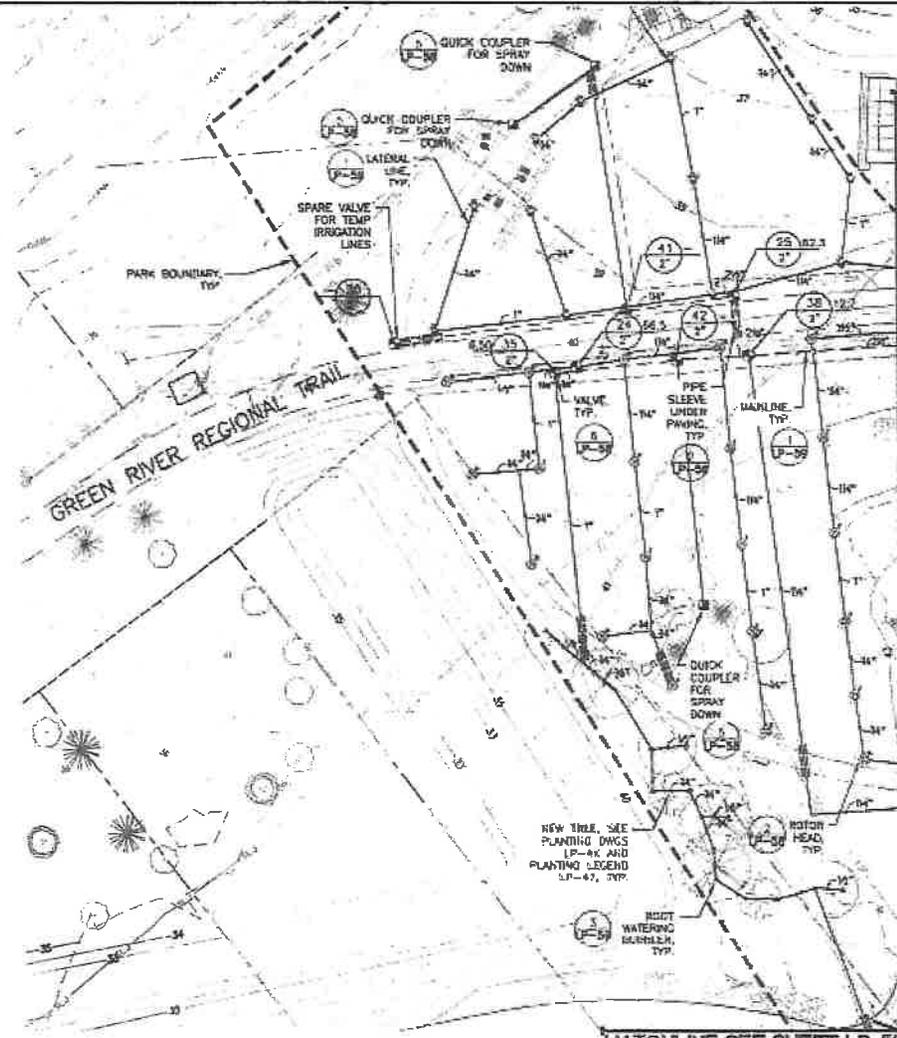


11/27/19



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chitrae Tava, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
IRRIGATION PLAN B
 SHEET
LP-52



- NOTES:**
- SEE SHEET LP-57 FOR IRRIGATION SCHEDULE, SYMBOL LEGEND, MECHANICAL SCHEDULE, AND VALVE SCHEDULE.
 - ALL DRAWINGS ARE DIAGRAMMATIC. FIELD VARIANCES MAY OCCUR. NOTIFY PROJECT REPRESENTATIVE IMMEDIATELY.
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 - ALL UNSIZED TERMINAL LATERAL LINES ARE 1/4" PIPE. LATERAL LINE PIPE IS SIZED FOR PRESSURE CONSERVATION AND FUTURE EXPANSION. DO NOT UNDERSIZE PIPE.
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 - VERIFY CONTROLLER LOCATION W OWNER.
 - IRRIGATION CONTRACTOR IS RESPONSIBLE FOR WINTERIZATION OF SYSTEM DURING CONSTRUCTION PERIOD AND WARRANTY PERIOD. CONTRACTOR TO NOTIFY FACILITY MAINTENANCE ONCE WINTERIZATION RESPONSIBILITY ENDS. SYSTEM MUST BE WINTERIZED BY BLOWING OUT WITH COMPRESSED AIR.
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MATCHLINE SEE SHEET LP-54

MATCHLINE SEE SHEET LP-51



SURVEY JOB NO./SOURCE:			
CAD ENTERED:	12/17	11/27/11	
DESIGNED:	12/18	11/27/11	NUM. REVISION BY DATE
CHECKED:	09	11/27/11	
SUPERVISOR:	08	11/27/11	
FILE:	RECORD CHANGES APPROVED	BY	DATE

FUNDING:	
PROJECT No.	1112058
CONTRACT No.	C01415C20



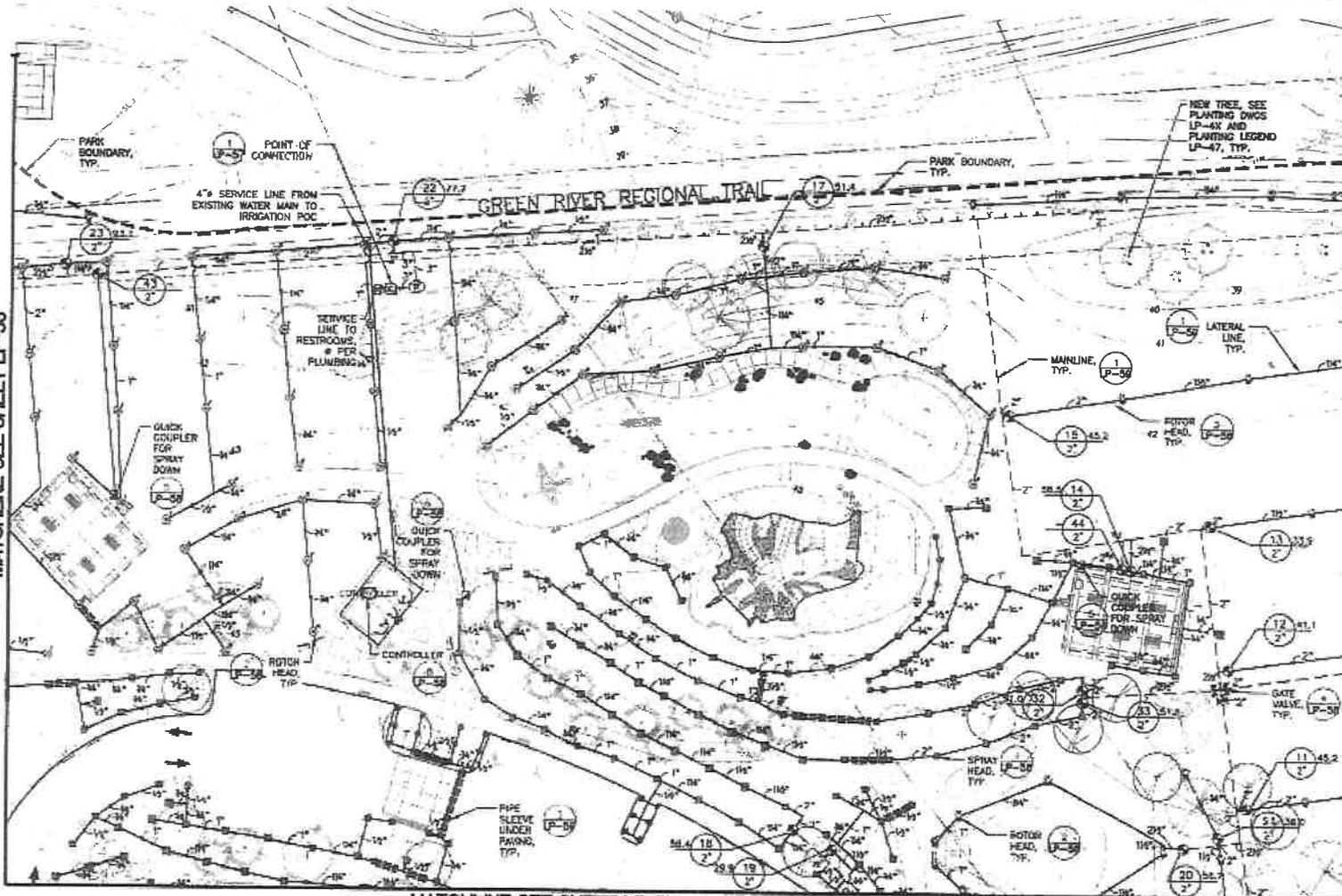
11/27/19



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christie Tove, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 IRRIGATION
 PLAN C

SHEET
 LP-53



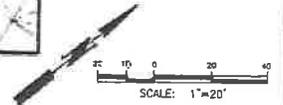
- NOTES:
- SEE SHEET LP-57 FOR IRRIGATION SCHEDULE, SYMBOL LEGEND, MECHANICAL SCHEDULE, AND VALVE SCHEDULE.
 - ALL DRAWINGS ARE DIAGRAMMATIC. FIELD VARIANCES MAY OCCUR. NOTIFY PROJECT REPRESENTATIVE IMMEDIATELY.
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 - VERIFY CONTROLLER LOCATION W/ OWNER.
 - IRRIGATION CONTRACTOR IS RESPONSIBLE FOR WINTERIZATION OF SYSTEM DURING CONSTRUCTION PERIOD AND WARRANTY PERIOD. CONTRACTOR TO NOTIFY FACILITY MAINTENANCE ONCE WINTERIZATION RESPONSIBILITY ENDS. SYSTEM MUST BE WINTERIZED BY BLOWING OUT WITH COMPRESSED AIR.
 - PIPING MAY BE INSTALLED IN A COMMON TRENCH. ALLOW A MINIMUM OF 4" BETWEEN PARALLEL PIPE LINES. LOCATE TRENCHES TO AVOID CONFLICT WITH INSTALLATION OF TREES & SHRUBS.
 - INSTALL MP ROTATOR NOZZLES AS NOTED ON DWG LP-57. CONTRACTOR RESPONSIBLE FOR FINE TUNING AND ADJUSTING RADIUS TO MAXIMIZE COVERAGE AND MINIMIZE OVERSPRAY ONTO HARDSCAPE SURFACE.

MATCHLINE SEE SHEET LP-53

MATCHLINE SEE SHEET LP-55

MATCHLINE SEE SHEET LP-51

MATCHLINE SEE SHEET LP-52



SUNKEY JOB NO./SOURCE:		
DESIGNED:		
DATE ENTERED:	2/8 11/27/19	
DESIGNED:	4/28 11/27/19	PLAN
CHECKED:	00 11/27/19	
SUPERVISOR:	00 11/27/19	
RECORD CHANGES APPROVED BY:		DATE

FLASING:	
PROJECT No.	1112056
CONTRACT No.	CO1415C20



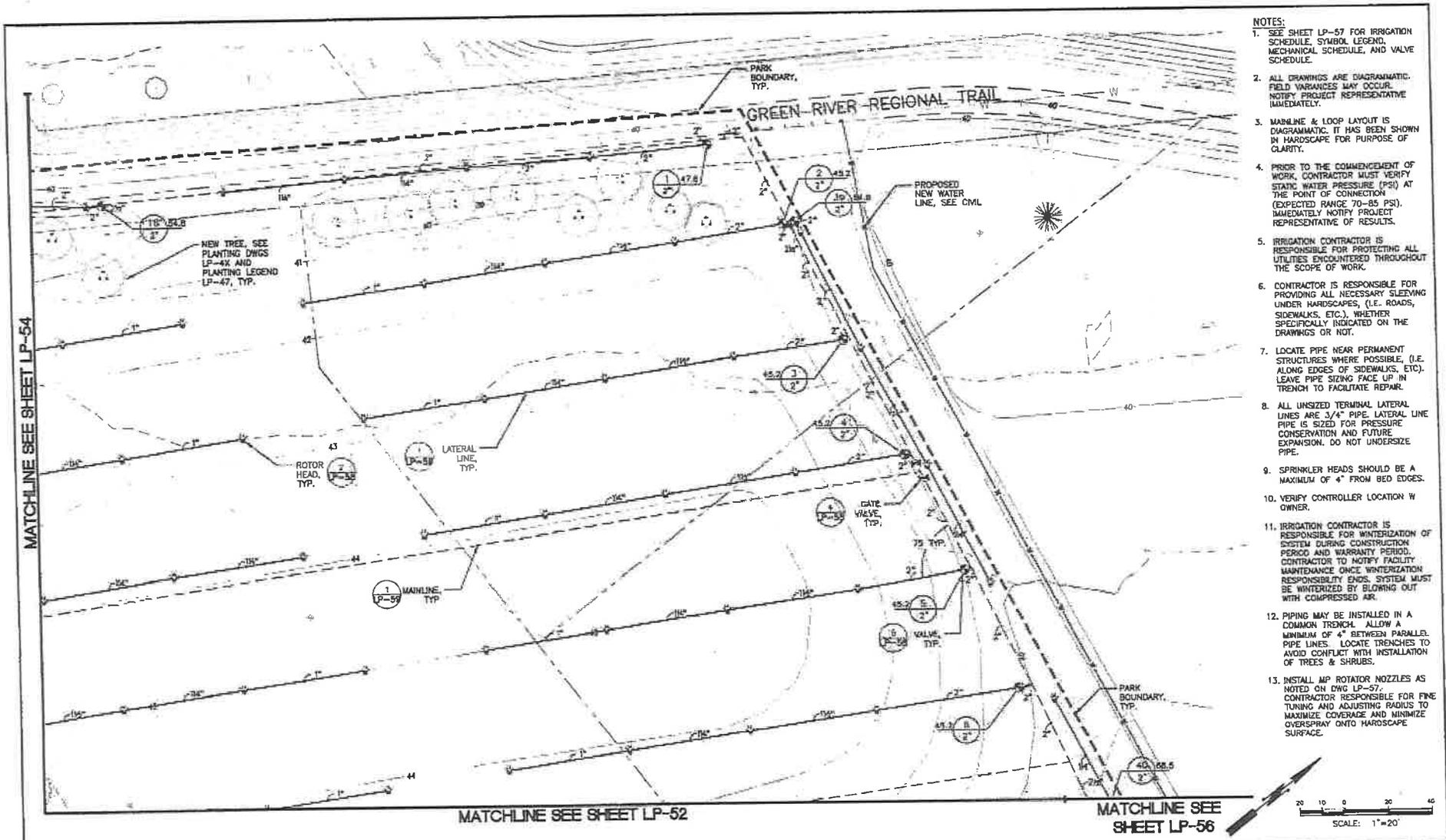
11/27/19



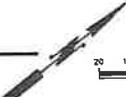
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chrístie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 IRRIGATION
 PLAN D

SHEET
 LP-54



- NOTES:**
- SEE SHEET LP-57 FOR IRRIGATION SCHEDULE, SYMBOL LEGEND, MECHANICAL SCHEDULE, AND VALVE SCHEDULE.
 - ALL DRAWINGS ARE DIAGRAMMATIC. FIELD VARIANCES MAY OCCUR. NOTIFY PROJECT REPRESENTATIVE IMMEDIATELY.
 - MAINLINE & LOOP LAYOUT IS DIAGRAMMATIC. IT HAS BEEN SHOWN IN HARDSCAPE FOR PURPOSE OF CLARITY.
 - PRIOR TO THE COMMENCEMENT OF WORK, CONTRACTOR MUST VERIFY STATIC WATER PRESSURE (PSI) AT THE POINT OF CONNECTION (EXPECTED RANGE 70-85 PSI). IMMEDIATELY NOTIFY PROJECT REPRESENTATIVE OF RESULTS.
 - IRRIGATION CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL UTILITIES ENCOUNTERED THROUGHOUT THE SCOPE OF WORK.
 - CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY SLEEVING UNDER HARDSCAPES, (I.E. ROADS, SIDEWALKS, ETC.), WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.
 - LOCATE PIPE NEAR PERMANENT STRUCTURES WHERE POSSIBLE, (I.E. ALONG EDGES OF SIDEWALKS, ETC.). LEAVE PIPE SIZING FACE UP IN TRENCH TO FACILITATE REPAIR.
 - ALL UNSIZED TERMINAL LATERAL LINES ARE 3/4" PIPE. LATERAL LINE PIPE IS SIZED FOR PRESSURE CONSERVATION AND FUTURE EXPANSION. DO NOT UNDERSIZE PIPE.
 - SPRINKLER HEADS SHOULD BE A MAXIMUM OF 4' FROM BED EDGES.
 - VERIFY CONTROLLER LOCATION W/ OWNER.
 - IRRIGATION CONTRACTOR IS RESPONSIBLE FOR WINTERIZATION OF SYSTEM DURING CONSTRUCTION PERIOD AND WARRANTY PERIOD. CONTRACTOR TO NOTIFY FACILITY MAINTENANCE ONCE WINTERIZATION RESPONSIBILITY ENDS. SYSTEM MUST BE WINTERIZED BY BLOWING OUT WITH COMPRESSED AIR.
 - PIPING MAY BE INSTALLED IN A COMMON TRENCH. ALLOW A MINIMUM OF 4" BETWEEN PARALLEL PIPE LINES. LOCATE TRENCHES TO AVOID CONFLICT WITH INSTALLATION OF TREES & SHRUBS.
 - INSTALL MP ROTATOR NOZZLES AS NOTED ON DWG LP-57. CONTRACTOR RESPONSIBLE FOR FINE TUNING AND ADJUSTING RADIUS TO MAXIMIZE COVERAGE AND MINIMIZE OVERSPRAY ONTO HARDSCAPE SURFACE.

MATCHLINE SEE SHEET LP-56


 SCALE: 1"=20'

SURVEY JOB NO./SOURCE:		FUNDING:	
DESIGNED:	11/27/18	PROJECT No.:	1112058
CHECKED:	11/27/18	CONTRACT No.:	C01415C20
SUPERVISOR:	11/27/18	RECORD CHANGES APPROVED BY DATE:	

11/27/18

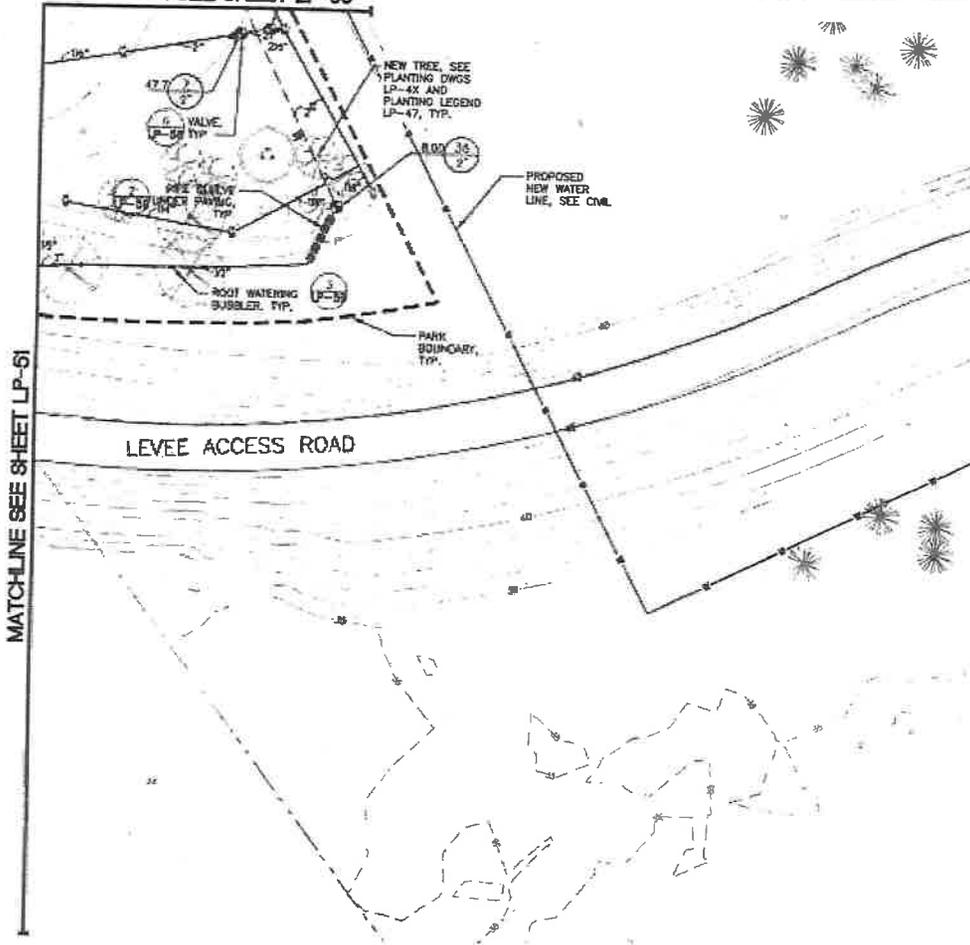


King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chyrla True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
**IRRIGATION
 PLAN E**

SHEET
LP-55

MATCHLINE SEE SHEET LP-55



- NOTES:
1. SEE SHEET LP-57 FOR IRRIGATION SCHEDULE, SYMBOL LEGEND, MECHANICAL SCHEDULE, AND VALVE SCHEDULE.
 2. ALL DRAWINGS ARE DIAGRAMMATIC. FIELD VARIANCES MAY OCCUR. NOTIFY PROJECT REPRESENTATIVE IMMEDIATELY.
 3. MAINLINE & LOOP LAYOUT IS DIAGRAMMATIC. IT HAS BEEN SHOWN IN HARDSCAPE FOR PURPOSE OF CLARITY.
 4. PRIOR TO THE COMMENCEMENT OF WORK, CONTRACTOR MUST VERIFY STATIC WATER PRESSURE (PSI) AT THE POINT OF CONNECTION (EXPECTED RANGE 70-85 PSI). IMMEDIATELY NOTIFY PROJECT REPRESENTATIVE OF RESULTS.
 5. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL UTILITIES ENCOUNTERED THROUGHOUT THE SCOPE OF WORK.
 6. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY SLEEVING UNDER HARDSCAPES, (I.E. ROADS, SIDEWALKS, ETC.), WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.
 7. LOCATE PIPE NEAR PERMANENT STRUCTURES WHERE POSSIBLE, (I.E. ALONG EDGES OF SIDEWALKS, ETC.). LEAVE PIPE SIZING FACE UP IN TRENCH TO FACILITATE REPAIR.
 8. ALL UNSIZED TERMINAL LATERAL LINES ARE 3/4" PIPE. LATERAL LINE PIPE IS SIZED FOR PRESSURE CONSERVATION AND FUTURE EXPANSION. DO NOT UNDERSIZE PIPE.
 9. SPRINKLER HEADS SHOULD BE A MAXIMUM OF 4" FROM BED EDGES.
 10. VERIFY CONTROLLER LOCATION W OWNER.
 11. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR WINTERIZATION OF SYSTEM DURING CONSTRUCTION PERIOD AND WARRANTY PERIOD. CONTRACTOR TO NOTIFY FACILITY MAINTENANCE ONCE WINTERIZATION RESPONSIBILITY ENDS. SYSTEM MUST BE WINTERIZED BY BLOWING OUT WITH COMPRESSED AIR.
 12. PIPING MAY BE INSTALLED IN A COMMON TRENCH. ALLOW A MINIMUM OF 4" BETWEEN PARALLEL PIPE LINES. LOCATE TRENCHES TO AVOID CONFLICT WITH INSTALLATION OF TREES & SHRUBS.
 13. INSTALL NP ROTATOR NOZZLES AS NOTED ON DWG LP-57. CONTRACTOR RESPONSIBLE FOR FINE TUNING AND ADJUSTING RADII TO MAXIMIZE COVERAGE AND MINIMIZE OVERSPRAY ONTO HARDSCAPE SURFACE.

MATCHLINE SEE SHEET LP-51



SIGNED JOB NO./SUBJECT		FUNDING:	
CHECKED:			
DATE ENTERED:	11/27/19	PROJECT No.	1112056
CHECKED:	11/27/19	CONTRACT No.	C01415C20
CHECKED:	11/27/19		
SUPERVISOR:	11/27/19		
REVISION	BY	DATE	
RECORD CHANGES APPROVED	BY	DATE	



11/27/19



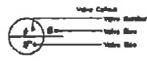
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Christi Triss, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
 IRRIGATION
 PLAN G

SHEET
 LP-56

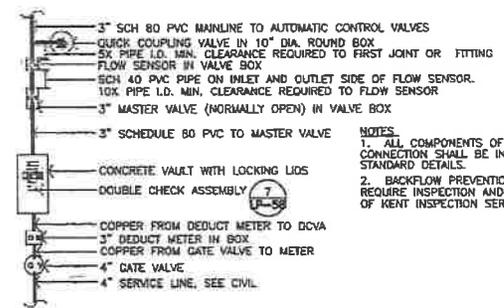
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	RAIN BIRD RD-12-S-P30-U 1S STRIP SERIES 12.0" POP-UP, WITH 30 PSI IN-STEM PRESSURE REGULATION, AND SEAL-A-MATIC CHECK VALVE. 1/2" NPT FEMALE THREADED INLET.	2	30		RAIN BIRD F4-PC, FC TURF ROTOR, 4.0" POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, WITH REMOVABLE SEAL-A-MATIC CHECK VALVE. 1" FEMALE THREADED INLET.	2	40
	RAIN BIRD RD-12-S-P30-U U8 SERIES 12.0" POP-UP, WITH 30 PSI IN-STEM PRESSURE REGULATION, AND SEAL-A-MATIC CHECK VALVE. 1/2" NPT FEMALE THREADED INLET.	61	30		RAIN BIRD F4-PC, FC TURF ROTOR, 4.0" POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, WITH REMOVABLE SEAL-A-MATIC CHECK VALVE. 1" FEMALE THREADED INLET.	4	40
	RAIN BIRD RD-12-S-P30-U U10 SERIES 12.0" POP-UP, WITH 30 PSI IN-STEM PRESSURE REGULATION, AND SEAL-A-MATIC CHECK VALVE. 1/2" NPT FEMALE THREADED INLET.	11	30		RAIN BIRD F4-PC, FC TURF ROTOR, 4.0" POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, WITH REMOVABLE SEAL-A-MATIC CHECK VALVE. 1" FEMALE THREADED INLET.	41	40
	RAIN BIRD RD-12-S-P30-U U12 SERIES 12.0" POP-UP, WITH 30 PSI IN-STEM PRESSURE REGULATION, AND SEAL-A-MATIC CHECK VALVE. 1/2" NPT FEMALE THREADED INLET.	20	30		RAIN BIRD F4-PC, FC TURF ROTOR, 4.0" POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, WITH REMOVABLE SEAL-A-MATIC CHECK VALVE. 1" FEMALE THREADED INLET.	26	40
	RAIN BIRD RD-12-S-P30-U U15 SERIES 12.0" POP-UP, WITH 30 PSI IN-STEM PRESSURE REGULATION, AND SEAL-A-MATIC CHECK VALVE. 1/2" NPT FEMALE THREADED INLET.	138	30		RAIN BIRD F4-PC, FC TURF ROTOR, 4.0" POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, WITH REMOVABLE SEAL-A-MATIC CHECK VALVE. 1" FEMALE THREADED INLET.	45	40
	RAIN BIRD RD-12-S-P30-U ADJ 12.0" POP-UP, WITH 30 PSI IN-STEM PRESSURE REGULATION, AND SEAL-A-MATIC CHECK VALVE. 1/2" NPT FEMALE THREADED INLET.	49	30		RAIN BIRD PEB-PRS-D 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES, LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION, WITH PRESSURE REGULATOR MODULE.	1	30
	RAIN BIRD RWS-B-C-SOCK ROOT WATERING SYSTEM WITH 4.0" DIAMETER X 36.0" LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE, CHECK VALVE AND SAND SOCK. RAIN BIRD BUBBLER OPTION AS INDICATED. 1401 0.25 GPM, 1402 0.5 GPM, 1404 1.0 GPM, 1408 2.0 GPM.	110	30		NIBCO P-619-RW 2" TO 12" CAST IRON MANUAL CONTROL VALVE, SAME SIZE AS MAINLINE PIPE WHERE LOCATED, RESILIENT WEDGE NON-RISING STEM FLOW CONTROL WITH IPS PUSH-ON ENDS.	7	30
	RAIN BIRD 5006-PL-PC-FC-MPR-SAM-R TURF ROTOR, 6.0" POP-UP, PLASTIC RISER, WITH FLOW SHUT-OFF DEVICE, MATCHED PRECIPITATION ROTOR (MPR NOZZLE), ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE, WITH SEAL-A-MATIC CHECK VALVE, AND IN-STEM PRESSURE REGULATOR.	22	35		BUCKNER-SUPERIOR QBRG-LRC 1" ONE PIECE, DOUBLE SLOT BRASS QUICK COUPLING VALVE, WITH LOCKING YELLOW TUFT TOP LID, COMPATIBLE WITH RAIN BIRD MODELS.	7	35
	RAIN BIRD 5006-PL-PC-FC-MPR-SAM-R TURF ROTOR, 6.0" POP-UP, PLASTIC RISER, WITH FLOW SHUT-OFF DEVICE, MATCHED PRECIPITATION ROTOR (MPR NOZZLE), ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE, WITH SEAL-A-MATIC CHECK VALVE, AND IN-STEM PRESSURE REGULATOR.	22	35		NIBCO T-113-K CLASS 125 BRONZE GATE SHUT OFF VALVE WITH CROSS HANDLE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION.	7	35
	RAIN BIRD 5006-PL-PC-FC-MPR-SAM-R TURF ROTOR, 6.0" POP-UP, PLASTIC RISER, WITH FLOW SHUT-OFF DEVICE, MATCHED PRECIPITATION ROTOR (MPR NOZZLE), ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE, WITH SEAL-A-MATIC CHECK VALVE, AND IN-STEM PRESSURE REGULATOR.	47	35		FEBCO 850U 2" DOUBLE CHECK BACKFLOW PREVENTION WITH UNION END BALL VALVE, 1/2" TO 2".	1	35
	RAIN BIRD F4-PC, FC TURF ROTOR, 4.0" POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, WITH REMOVABLE SEAL-A-MATIC CHECK VALVE. 1" FEMALE THREADED INLET.	17	40		CALSSENSO CS3000 AUTOMATIC CONTROLLER FLOW SENSING TWO-WIRE DECODER COMMERCIAL CONTROLLER, 48 STATIONS, UV-RESISTANT, OUTDOOR-RATED, POWDER-COATED METAL CABINET.	1	40
	RAIN BIRD F4-PC, FC TURF ROTOR, 4.0" POP-UP, PLASTIC RISER, ADJUSTABLE AND FULL CIRCLE, WITH REMOVABLE SEAL-A-MATIC CHECK VALVE. 1" FEMALE THREADED INLET.	4	40		WATER METER 3"	1	40
					LATERAL LINE: PVC SCHEDULE 40, SOLVENT WELD.	13,261	L.F.
					MAINLINE: PVC SCHEDULE 40, SOLVENT WELD.	3,518	L.F.
					PIPE SLEEVE: PVC SCHEDULE 40 PROVIDE (2) PARALLEL PIPE SLEEVES, TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE, PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION, SECOND PIPE SLEEVE IS FOR WIRING.	425.1	L.F.



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	47.50	823.5	47.88	60.17	0.81 in/h
2	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	45.20	887.0	48.77	61.64	0.42 in/h
3	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	45.20	940.3	48.78	61.65	0.42 in/h
4	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	45.20	1,002	48.77	61.70	0.42 in/h
5	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	45.20	1,057	48.76	61.81	0.42 in/h
6	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	45.20	1,119	48.93	62.43	0.42 in/h
7	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	47.70	1,184	48.08	61.84	0.58 in/h
8	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	54.80	954.6	46.22	61.45	0.73 in/h
9	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	27.40	769.2	46.48	53.27	0.88 in/h
10	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	38.50	739.0	48.12	59.22	0.38 in/h
11	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	45.20	683.9	48.32	60.77	0.42 in/h
12	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	41.10	629.1	47.62	57.98	0.44 in/h
13	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	33.90	573.8	48.68	57.77	0.42 in/h
14	RAIN BIRD PEB-PRS-D	2"	SHRUB SPRAY	58.50	555.1	38.72	51.52	0.95 in/h
15	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	45.20	447.5	48.49	58.04	0.42 in/h
16	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	54.80	548.6	47.75	59.62	0.74 in/h
17	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	31.40	288.9	44.23	52.55	0.65 in/h
18	RAIN BIRD PEB-PRS-D	2"	SHRUB SPRAY	58.43	932.2	38.97	55.83	1.01 in/h
19	RAIN BIRD PEB-PRS-D	2"	SHRUB SPRAY	29.83	920.1	37.51	47.19	1.01 in/h
20	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	56.70	715.1	46.93	61.09	2.06 in/h
21	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	36.00	704.0	52.30	62.23	0.44 in/h
22	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	77.65	159.5	44.49	52.48	0.65 in/h
23	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	93.11	286.0	46.57	56.96	0.62 in/h
24	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	66.49	415.7	43.14	53.29	0.58 in/h
25	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	62.30	378.3	48.14	57.33	0.89 in/h
26	RAIN BIRD PEB-PRS-D	2"	SHRUB SPRAY	53.18	960.7	40.40	55.82	0.91 in/h
27	RAIN BIRD PEB-PRS-D	2"	SHRUB SPRAY	63.58	955.4	40.62	59.27	0.77 in/h
28	RAIN BIRD PEB-PRS-D	2"	SHRUB SPRAY	57.35	960.7	38.82	55.40	0.81 in/h
29	RAIN BIRD PEB-PRS-D	2"	SHRUB SPRAY	66.76	965.1	40.34	60.28	0.94 in/h
30	RAIN BIRD PEB-PRS-D	2"	FOR TEMP IRR	0.00	496.1	4.80	10.80	FOR TEMP IRR
31	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	24.98	905.9	43.94	53.99	0.58 in/h
32	RAIN BIRD PEB-PRS-D	2"	SHRUB SPRAY	50.98	688.0	40.23	52.77	0.78 in/h
33	RAIN BIRD PEB-PRS-D	2"	SHRUB SPRAY	51.79	687.7	39.09	51.77	0.75 in/h
34	RAIN BIRD PEB-PRS-D	2"	BUBBLER	13.00	898.3	40.09	47.10	0.85 in/h
35	RAIN BIRD PEB-PRS-D	2"	BUBBLER	6.50	421.9	40.55	46.92	0.85 in/h
36	RAIN BIRD PEB-PRS-D	2"	BUBBLER	8.00	1,246	40.00	47.53	0.85 in/h
37	RAIN BIRD PEB-PRS-D	2"	SHRUB SPRAY	21.08	876.7	37.99	45.78	1.42 in/h
38	RAIN BIRD PEB-PRS-D	2"	SHRUB SPRAY	12.72	354.7	37.87	43.96	1.41 in/h
39	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	54.80	885.5	47.77	61.81	0.79 in/h
40	RAIN BIRD PEB-PRS-D	2"	TURF ROTOR	68.50	1,184	47.24	67.36	1.08 in/h
41	RAIN BIRD PEB-PRS-D	2"	QUICK COUPLER	0.00	417.3			QUICK COUPLER
42	RAIN BIRD PEB-PRS-D	2"	QUICK COUPLER	0.00	379.4			QUICK COUPLER
43	RAIN BIRD PEB-PRS-D	2"	QUICK COUPLER	0.00	299.6			QUICK COUPLER
44	RAIN BIRD PEB-PRS-D	2"	QUICK COUPLER	0.00	550.4			QUICK COUPLER
45	RAIN BIRD PEB-PRS-D	2"	QUICK COUPLER	0.00	825.3			QUICK COUPLER
AT POC	NIBCO P-619-RW	4"	Common Wire	0.00		3,518	1	Unknown



P.O.C. DIAGRAM
SCALE: 1/2"=1'-0"

SURVEY JOB NO./SOURCE					
CHECKED:					
DWG. ENTERED:	JL/JH	11/27/18			
DESIGNED:	JL/JH	11/27/18	MM	REVISION	BY DATE
CHECKED:	CR	11/27/18			
SUPERVISOR:					
	MM	RECORD CHANGES APPROVED	BY	DATE	

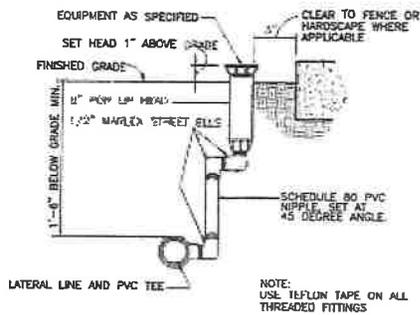
FUNDING:	
PROJECT No.	1112056
CONTRACT No.	CO1415C20
	11/27/19



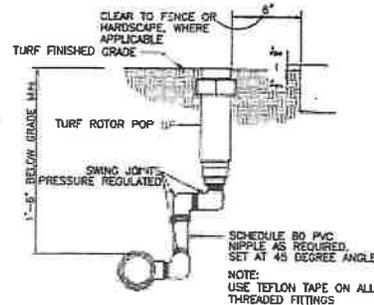
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christa Tate, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
IRRIGATION SCHEDULES & DETAILS

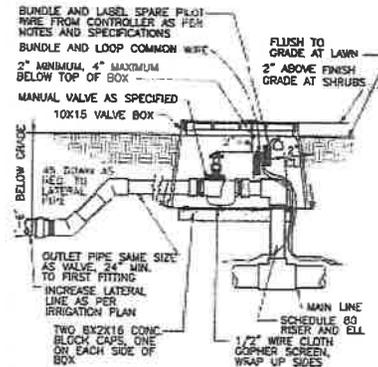
SHEET
LP-57



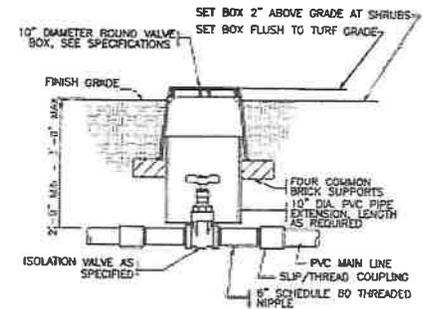
SHRUB SPRAY 6\"/>



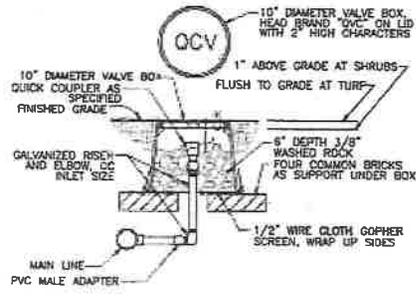
TURF ROTOR ASSEMBLY
SCALE: 3\"/>



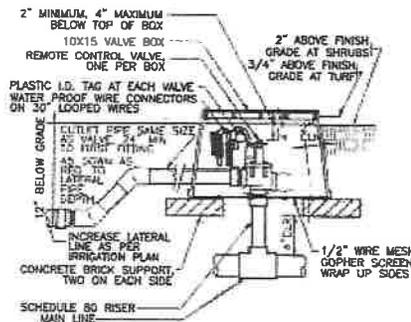
MANUAL CONTROL VALVE IN BOX
SCALE: 1 1/2\"/>



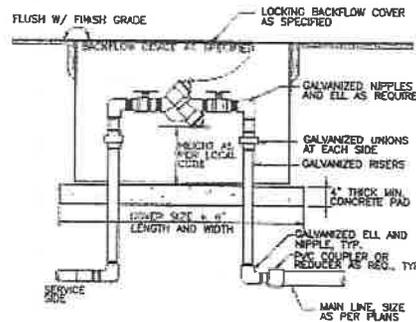
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SCALE: 1 1/2\"/>



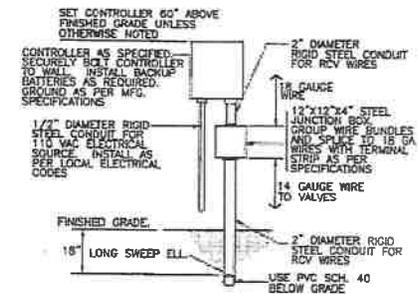
QUICK COUPLING VALVE IN BOX
SCALE: 1 1/2\"/>



AUTOMATIC CONTROL VALVE
SCALE: 1 1/2\"/>



BACKFLOW W/ ENCLOSURE
SCALE: 1\"/>



WALL MOUNT CONTROLLER
SCALE: 1\"/>

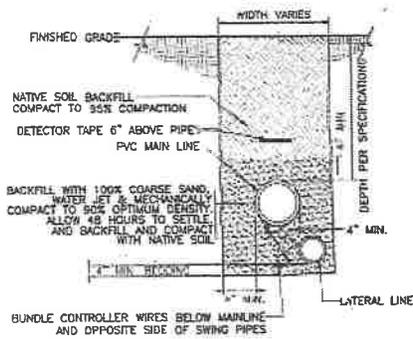
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DATE: 11/27/18 BY: [Signature] DATE: 11/27/18 BY: [Signature]	11/27/18



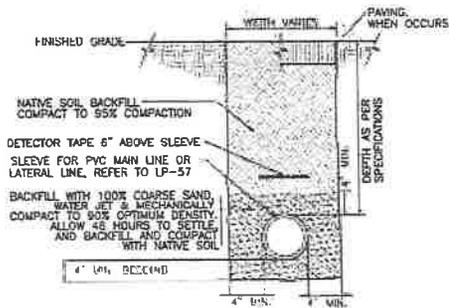
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Charles Tom, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
IRRIGATION DETAILS

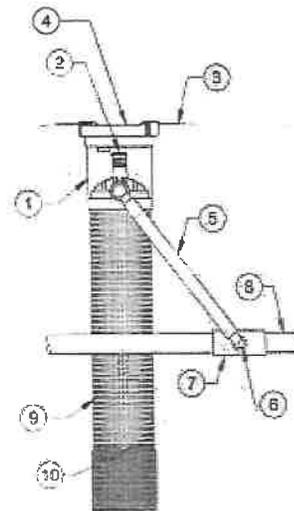
SHEET LP-58



MAINLINE AND LATERAL LINES
SCALE: 1 1/2"=1'-0"



PIPE SLEEVES
SCALE: 1 1/2"=1'-0"



- ① ROOT WATERING SYSTEM:
RAIN BIRD RWS-B-X-1401 (INCLUDES RETAINER, 36" (91.4 cm) TUBE, 0.25 GPM (0.95 L/M) BUBBLER, 4" (10.2 cm) GRATE, 18" (45.7 cm) OPEN SWING ASSEMBLY WITH 1/2" (1.3 cm) M NPT INLET)
- ② BUBBLER: RAIN BIRD 1401 0.25 GPM (0.95 L/M) (INCLUDED)
- ③ FINISH GRADE/TOP OF MULCH
- ④ 4" (10.2 cm) LOCKING GRATE (INCLUDED)
- ⑤ 18" (45.7 cm) SWING ASSEMBLY (INCLUDED)
- ⑥ 1/2" (1.3 cm) MALE NPT INLET (INCLUDED)
- ⑦ PVC SCH 40 TEE OR EL
- ⑧ PVC OR POLYETHYLENE LATERAL PIPE
- ⑨ 4" (10.2 cm) WIDE X 36" (91.4 cm) LONG RIGID BASKET WEAVE CANISTER (INCLUDED)
- ⑩ OPTIONAL SOCK (RWS-SOCK) FOR SANDY SOILS

- NOTES:
1. PROVIDE (2) PER TREE AS NOTED ON DRAWINGS.
 2. 4" (10.2 cm) GRATE IS ALSO AVAILABLE IN PURPLE (RWS-GRATE-P).
 3. INSTALL PRODUCT SO THAT THE GRATE IS EVEN WITH FINISH GRADE OR TOP OF MULCH.
 4. OPTIONAL SAND SOCK (RWS-SOCK) IS 34" (86.4 cm) IN LENGTH TO COVER MESH BASKET AREA.
 5. WHEN INSTALLING IN EXTREMELY HARD OR CLAY SOILS, ADD 3/4" (1.9 cm) GRAVEL UNDER AND AROUND THE UNIT TO ALLOW FASTER WATER INFILTRATION AND ROOT PENETRATION.
 6. ONCE RWS HAS BEEN INSTALLED FILL THE BASKET WITH PEA GRAVEL BEFORE LOCKING LID.

ROOT WATERING BUBBLER
SCALE: NTS



SURVEY JOB NO./SHEET:		FUNDING:	
CHECKED:		PROJECT No. 1112056	
DATE ENTERED: 02/08 11/27/18	BY: RLN	CONTRACT No. CO1415020	
DESIGNED: 02/08 11/27/18	BY: RLN		
CHECKED: 08 11/27/18			
SUPERVISOR: 08 11/27/18			
SCALE:	RECORD CHANGES APPROVED BY DATE:		



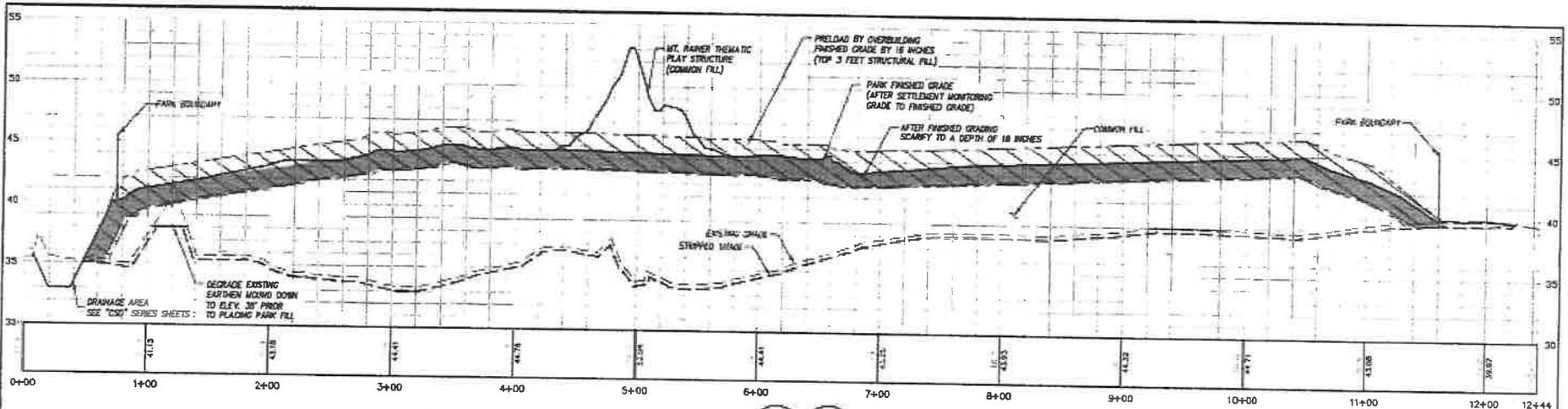
11/27/19



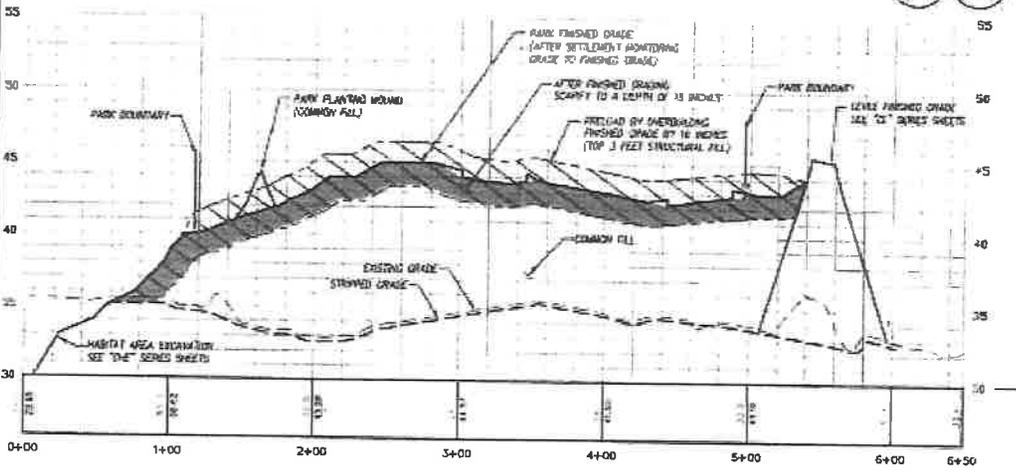
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Trow, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
IRRIGATION
DETAILS

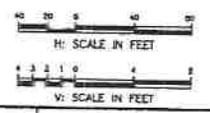
SHEET
LP-59



PARK SECTION - SOUTH TO NORTH



PARK SECTION - WEST TO EAST



CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 Know what's below. Call before you dig.

SURVEY JOB NO./SOURCE:					
CHECKED:					
DWG. ENTERED:	RD	11/19			
DESIGNED:	VP	11/18	REVISION	BY	DATE
CHECKED:	JG	11/19			
SUPERVISOR:	SJ	11/19			
			RECORD CHANGES APPROVED	BY	DATE

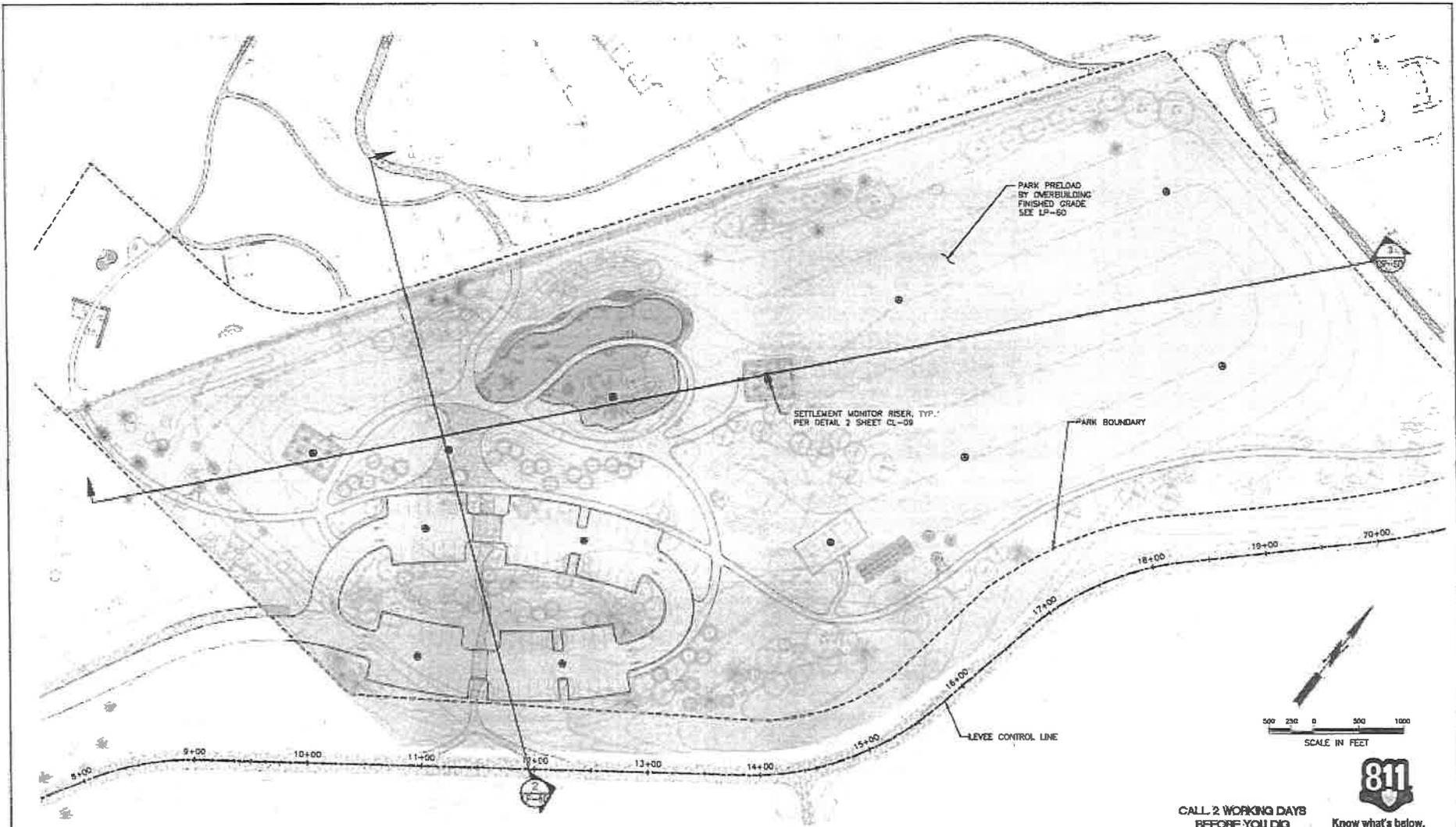
PROJECT No. 1112056
 CONTRACT No. C01415C20



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chrissa True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
PARK GRADING SECTIONS

SHEET
LP-60



SURVEY JOB NO./SUBJOB:					
CHECKED:					
CAD ENTERED:	RD	11/79			
CHECKED:	VR	11/79	DATE	REVISION	BY
CHECKED:	KF	11/79			
SUPERVISOR:	SJ	11/79			
	REAL	RECORD CHANGES APPROVED	BY	DATE	

FUNDING: _____
 PROJECT No. 1112058
 CONTRACT No. C01415C20



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chrissa Triv, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
VAN DOREN'S LANDING PARK
SETTLEMENT MONITORING PLAN

CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 (UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

Know what's below.
 Call before you dig.

SHEET **LP-61**

SCHEDULE OF SPECIAL INSPECTION SERVICES			
INSPECTION ITEM REQUIRED	INSPECTION ITEM REQUIRED		REMARKS
		PERIODIC	
GENERAL STRUCTURAL OBSERVATIONS			
CONDUCT DAILY VISUAL OBSERVATION OF THE STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO THE CONSTRUCTION DOCUMENTS. PREPARE WEEKLY REPORT OF OBSERVATIONS DESCRIBING WORK PROGRESS AND NON-COMPLYING ITEMS.	-	X	
SOIL AND EARTHWORK			
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X	
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED FIRM MATERIAL.	-	X	TABLE 1705.6
PERFORM CLASSIFICATION AND TESTS OF COMPACTED FILL MATERIALS.	-	X	
VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	-	X	
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SURF GRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X	
CONCRETE AND REINFORCING STEEL			
TYPE			
	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD
			ISC REFERENCE
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	-	X	ACI 318 CH. 20, 24.2, 25.3, 26.5, 19.5.3
REINFORCING BAR WELDING: A VERIFY RELIABILITY OF REINFORCING BARS OTHER THAN ASTM A76. B INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" AND C INSPECT ALL OTHER WELDS.	-	X	AWS D1.4 ACI 318, 25.5.4
INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318, 17.8.2
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: A ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. B MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED BY A (ABOVE PARAGRAPH).	-	X	ACI 318, 17.8.2.4 ACI 318, 17.8.2
VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318 CH. 19, 28.4.2, 28.4.4
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF CONCRETE.	-	X	ASTM C 173 ACI 318, 28.4.5, 28.5.12
INSPECT CONCRETE AND SHOOTER'S PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	-	X	ACI 318, 28.4.5
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUE.	-	X	ACI 318, 28.4.7, 28.4.9
VERIFY FRESH CONCRETE STRENGTH PRIOR TO STREAMING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318, 28.10.2
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF CONCRETE MEMBER BEING FORMED.	-	X	ACI 318, 28.10.1 (b)

STATEMENT OF SPECIAL INSPECTIONS (IBC 1705)

SCHEDULE OF SPECIAL INSPECTION SERVICES (CONTINUED)			
INSPECTION ITEM REQUIRED	INSPECTION ITEM REQUIRED		REMARKS
		PERIODIC	
STRUCTURAL STEEL			
VERIFY FABRICATOR CERTIFICATION			
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X	FEMA 355 RECOMMENDATION
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X	AWC 300, SECTION A3.3 AND APPLICABLE ASTM MATERIAL STANDARDS
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS. MANUFACTURER'S CERTIFICATE OF COMPLIANCE.	-	X	
INSPECTION OF HIGH-STRENGTH BOLTING 8/16" TIGHT JOINTS.	-	X	AWC 300, SECTION M2.5
INSPECTION OF HIGH-STRENGTH BOLTING PRE-TENSIONED AND SUPPLEMENTAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	-	X	
OBSERVE AND TEST ALL FIELD APPLIED HEADED STUDS.	-	X	
MATERIAL VERIFICATION OF WELD FILLER MATERIALS. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X	AWC 300, SECTION A3.5 AND APPLICABLE AWS AS DOCUMENTS
MATERIAL VERIFICATION OF WELD FILLER MATERIALS. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	-	X	
VERIFY CONTRACTORS RECEIPT OF WELDER CERTIFICATIONS.	-	X	AWS D1.1
VISUALLY INSPECT ALL WELDS.			
PERFORM LIQUID DYE PENETRATION TESTING ON 20% OF ALL PARTIAL PENETRATION AND FILLET WELDS.	-	X	
PERFORM ULTRASONIC OR MAGNETIC PARTICLE TESTING ON ALL FULL PENETRATION WELDS.	-	X	
INSPECTION OF WELDING FOR STRUCTURAL STEEL AND COLD-FORMED DECKING. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS.	-	X	AWC D1.1 AND D1.2
INSPECTION OF WELDING FOR STRUCTURAL STEEL AND COLD-FORMED DECKING. MULTIPASS FILLET WELDS.	-	X	
INSPECTION OF WELDING FOR STRUCTURAL STEEL AND COLD-FORMED DECKING. SINGLE-PASS FILLET WELDS > 3/16"	-	X	
INSPECTION OF WELDING FOR STRUCTURAL STEEL AND COLD-FORMED DECKING. PLUG AND SLOT WELDS.	-	X	
INSPECTION OF WELDING FOR STRUCTURAL STEEL AND COLD-FORMED DECKING. SINGLE-PASS FILLET WELDS < 3/16"	-	X	

STATEMENT OF SPECIAL INSPECTIONS (IBC 1705)

- UNLESS NOTED OTHERWISE:
- SPECIAL INSPECTIONS AND STRUCTURAL OBSERVATIONS ARE REQUIRED IN ACCORDANCE WITH IBC 2018 CHAPTER 17 AND CHAPTER 17. CONTRACTOR SHALL PROVIDE PAYMENT FOR THESE INSPECTIONS AND OBSERVATIONS ARE THE RESPONSIBILITY OF OWNER AND NOT THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE FOR FULL ACCESS TO THE WORK BY THE SPECIAL INSPECTOR AND SHALL PROVIDE FOR THESE INSPECTIONS IN HIS CONSTRUCTION SCHEDULE IN ACCORDANCE WITH THE SPECIFICATIONS.
 - SHOP FABRICATED ITEMS BY APPROVED FABRICATOR IS EXEMPT FROM SPECIAL INSPECTION. UPON COMPLETION, APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE STATING WORK WAS PERFORMED IN ACCORDANCE WITH APPROVED CONSTRUCTION DOCUMENTS.
 - SEISMIC REQUIREMENTS:
 - DETAILED SEISMIC SYSTEMS COMB AND COMB PER AISC 341
 - SPECIAL INSPECTIONS ARE REQUIRED FOR SEISMIC FORCE RESISTING SYSTEMS, AND ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS IN THE FOLLOWING TABLE:
 - SEISMIC CERTIFICATION OF NON STRUCTURAL COMPONENTS:
 - THE MANUFACTURE OF THE FOLLOWING SYSTEMS SHALL SUBMIT A CERTIFICATION OF COMPLIANCE TO THE REGISTERED DESIGN PROFESSIONAL AND BUILDING OFFICIAL:
 - MECHANICAL AND ELECTRICAL EQUIPMENT INTENDED TO REMAIN IN SERVICE FOLLOWING DESIGN EARTHQUAKE SHALL BE CERTIFIED AS OPERABLE BY MANUFACTURER PER ASCE 7-16 12.2
 - COMPONENTS CONTAINING HAZARDOUS MATERIALS SHALL BE CERTIFIED AS MAINTAINING CONTAINMENT BY MANUFACTURER PER ASCE 7-16 12.2.
 - CERTIFICATION SHALL BE BASED ON ANALYSIS PER ASCE 7-16 CHAPTER 13, TESTING PER ASCE 7-16 12.2.1, OR EXPERIENCED DATA PER ASCE 7-16 12.2.
 - CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY PRIOR TO CONSTRUCTION INCLUDING:
 - ACKNOWLEDGMENT OF SPECIAL INSPECTION REQUIREMENTS.
 - ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO CONFORM WITH APPROVED CONSTRUCTION DOCUMENTS.
 - PROCEDURES FOR EXERCISING CONTROL, INCLUDING METHOD AND FREQUENCY OF REPORTING AND DISTRIBUTION OF REPORTS.
 - IDENTIFICATION AND QUALIFICATIONS OF PERSONNEL EXERCISING SUCH CONTROL.
 - THE FOLLOWING CONSTRUCTION IS SUBJECT TO SPECIAL INSPECTIONS:



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555

Know what's below. Call before you dig.

LOWER RUSSELL LEVEE SETBACK PROJECT

PHASE 2

OBSERVATION TOWER
SPECIAL INSPECTIONS

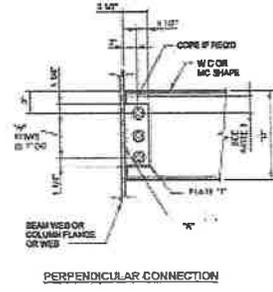
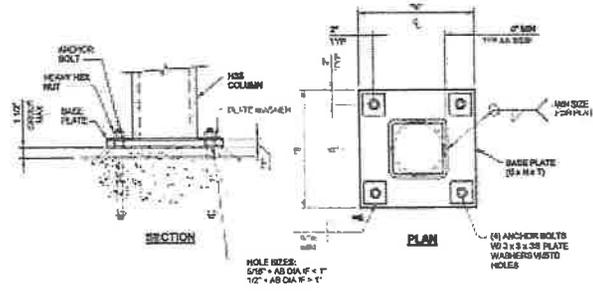
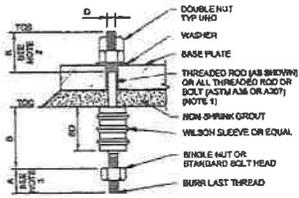
SHEET
LS-02

SURVEY JOB NO/SOURCE		FUNDING	
CHECKED		PROJECT No.	1112056
CAD ENTERED	J. PERUCHNI	CONTRACT No.	C0145C20
DESIGNED	D. PRINDLE		
CHECKED	C. GIPSON		
SUPERVISOR	C. GIPSON		
NUM	REVISION	BY	DATE
NUM	RECORD CHANGES	APPROVED BY	DATE



HDR Engineering Inc.

King County
Department of Natural Resources and Parks
Water and Lands Resources Division
River and Floodplain Management Section
Christie Trice, Director



SINGLE PLATE BEAM CONNECTION SCHEDULE			
3/4\"/>			
NOMINAL BEAM DEPTH \"D\"	NUMBER OF BOLT ROWS \"N\"	PLATE THICKENED \"T\"	WELD SIZE \"A\"
W12	3	3/16\"/>	

- NOTES:
- 1 ALL BOLTS SHALL BE 3/4\"/>
 - 2 PROVIDE UNIFORM NUMBER OF BOLT ROWS \"N\" SHOWN AS THE TYPICAL COLUMN INCREASE NUMBER OF ROWS ANCHOR BOLT DIA \"F\" INDICATED ON PLANS
 - 3 MIN DISTANCE FROM CL OF TOP BOLT TO A CORE SHALL BE 1 1/2\"/>
 - 4 USE STANDARD OR SHORT HORIZONTAL SLOTTED HOLES AS REQUIRED

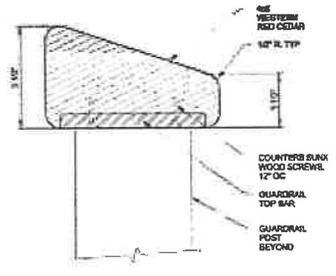
SCHEDULE ANCHOR BOLT TYPE A				
D	A	S	F	REMARKS
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100 1/2\"/>				

1 COLUMN BASE PLATE
NOT TO SCALE

2 SINGLE PLATE BEAM CONNECTION
NOT TO SCALE

- NOTES:
- 1 PROVIDE 8BT ANCHOR BOLTS WHERE INDICATED IN SECTIONS AND DETAILS
 - 2 STANDARD 8BT TYPED LENGTH MAY BE USED WHERE APPLICABLE
 - 3 DIMENSION IN SCHEDULE OR STANDARD BOLT HEAD
 - 4 PROVIDE ANCHOR BOLT DIMENSIONS PER THE ABOVE TABLE UNO

3 ANCHOR BOLT
NOT TO SCALE



4 GUARDRAIL TOP RAIL
8\"/>



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555

Know what's below.
Call before you dig.

G:\DATA\FILE EDITING\REVISED 201205\Drawn by: Bruce G. WOODRUFF\REVISED - 1011001 - STRUCTURAL - steel tower\112719.dwg
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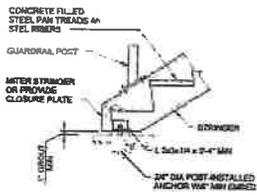
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CHECKED:		PROJECT NO.:	1112056
CAD ENTERED:	J PERUCHINI	CONTRACT NO.:	C01410C20
DESIGNED:	D PRINDLE		
CHECKED:	C GIPSON		
SUPERVISOR:	C GIPSON		
NUM. RECORD CHANGES APPROVED BY:	DATE:		



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Carmela Tru, Director

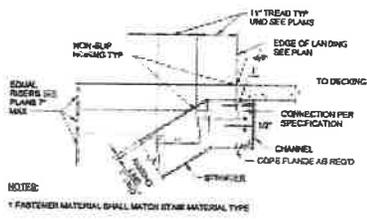
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
**OBSERVATION TOWER STEEL
STANDARD DETAILS**

SHEET
LS-04



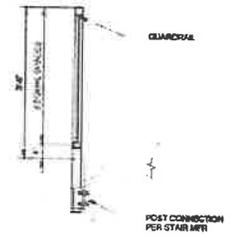
DETAIL

1 STAIRS AND APPURTENANCE ITEMS SHOWN ON DRAWINGS SHALL BE PAINTED STEEL UNLESS OTHERWISE NOTED ON DRAWINGS. ALL ANCHORS SHALL BE STAINLESS STEEL.

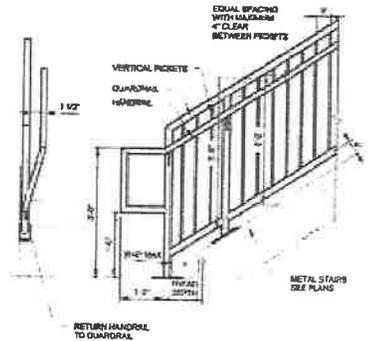


NOTES:

1 FASTENER MATERIAL SHALL MATCH STEEL MATERIAL TYPE



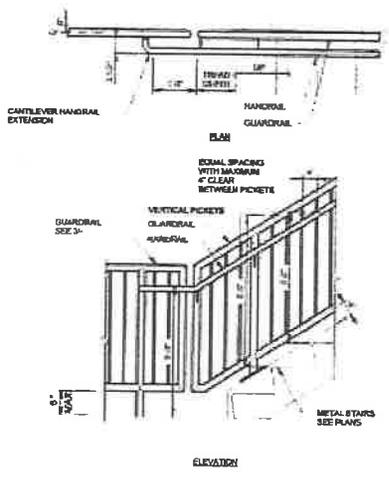
1 GUARDRAIL ON METAL BEAM DETAIL
NOT TO SCALE



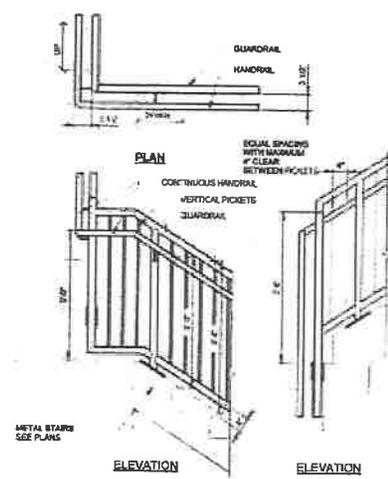
2 VERTICAL PICKETS ON METAL STAIR
3/4" x 1 1/2"

1 STAIR BOTTOM CONNECTION
NOT TO SCALE

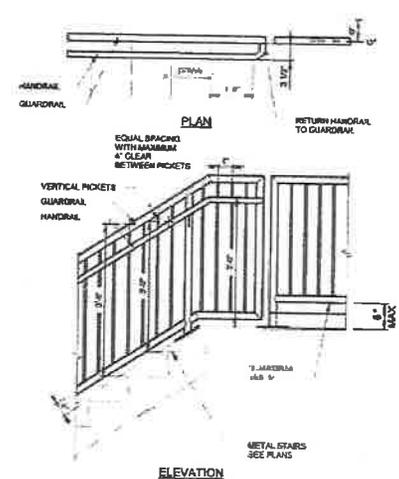
2 STAIR TOP CONNECTION AT BEAM
NOT TO SCALE



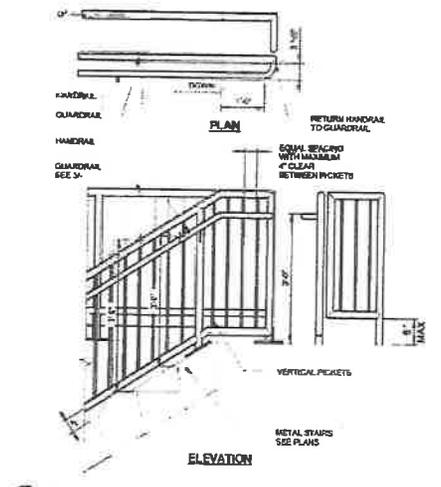
3 PICKETS WITH GUARDRAIL ON METAL STAIRS
3/4" x 1 1/2"



4 PICKETS 90 DEGREE TURN ON METAL STAIRS
3/4" x 1 1/2"



5 PICKETS TOP WITH GUARDRAIL ON METAL STAIRS
3/4" x 1 1/2"



6 PICKETS TOP 90 DEGREE TURN ON METAL STAIRS
3/4" x 1 1/2"

EXISTING FILE: 200809_11062011_10_20_00 AM
 C:\WORK\11062011_10_20_00 AM
 11/27/15

SURVEY JOB NO/SOURCE		FLDING	
CHECKED		PROJECT NO.	1112056
CAD ENTERED	J. PERUCHINI	CONTRACT NO.	CD1415C20
DESIGNED	D. PRIBOLE		
CHECKED	C. GIBSON		
SUPERVISOR	C. GIBSON		
RECORD CHANGE APPROVED BY DATE			



King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Cheryl Tru, Director

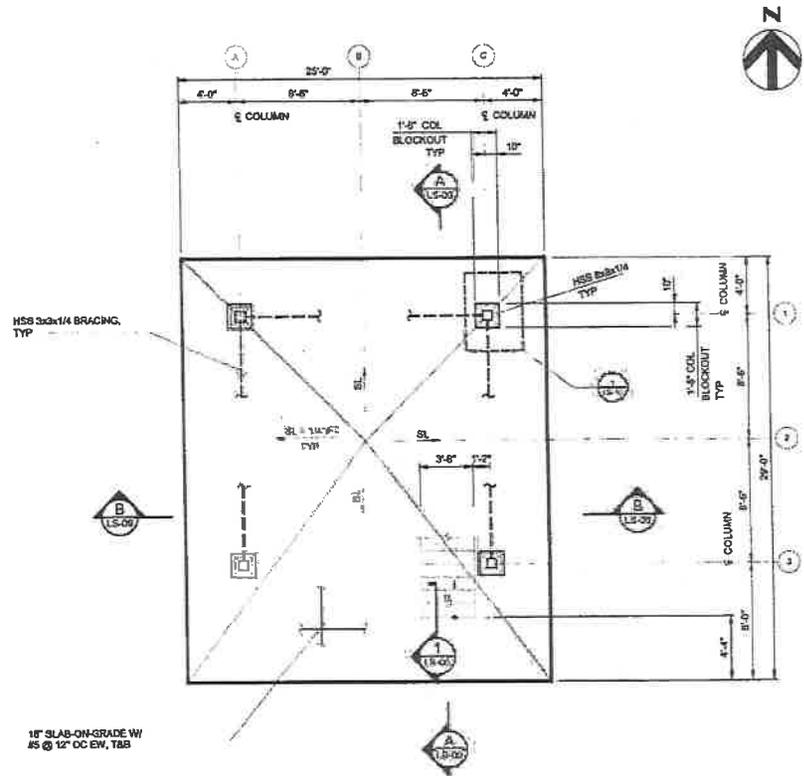
LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
**OBSERVATION TOWER STEEL
 FABRICATIONS STANDARD DETAILS**

811
 Know what's below.
 Call before you dig.

SHEET
LS-05



3D VIEW OBSERVATION TOWER



FOUNDATION PLAN
1/4" = 1'-0"

NOTES
1. FOR STRUCTURAL NOTES, SEE LS-01



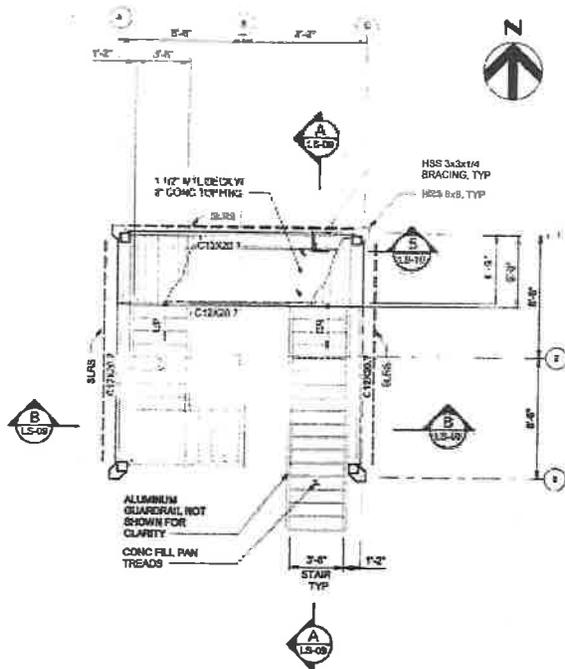
CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555

Know what's below.
Call before you dig.

(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

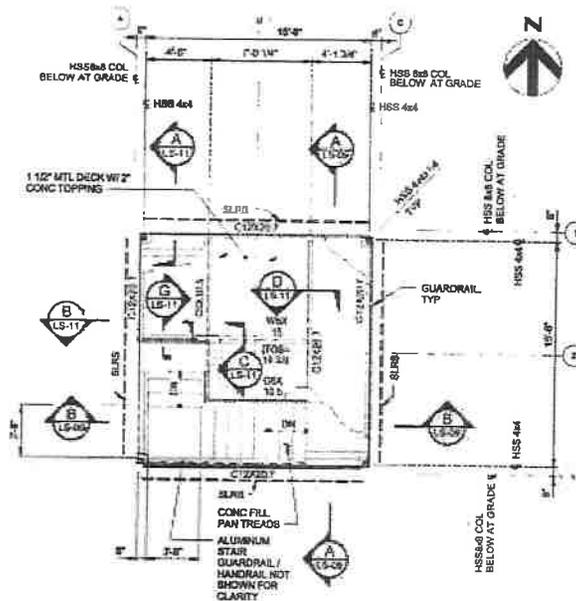
PROJECT FILE COMPLETE. INCLUDES: SURVEY, DESIGN, PERMITS, MATERIALS
 QUANTITIES, ESTIMATES, CONTRACTS, RECORDS, AS-BUILT, ARCHITECTURE, ETC.

SURVEY JOB NO/SOURCE CHECKED: CAD ENTERED: J. PERUCHINI DESIGNED: D. PRINDLE CHECKED: C. GIPSON SUPERVISOR: C. GIPSON	REVISION BY DATE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	FUNDING PROJECT NO: 1112056 CONTRACT NO: C01415C20 1/27/19			<p>King County Department of Natural Resources and Parks Water and Land Resources Division River and Floodplain Management Section Christie Tru, Director</p>	LOWER RUSSELL LEVEE SETBACK PROJECT PHASE 2 OBSERVATION TOWER PLANS	SHEET LS-06
--	--	---	--	--	---	--	-----------------------



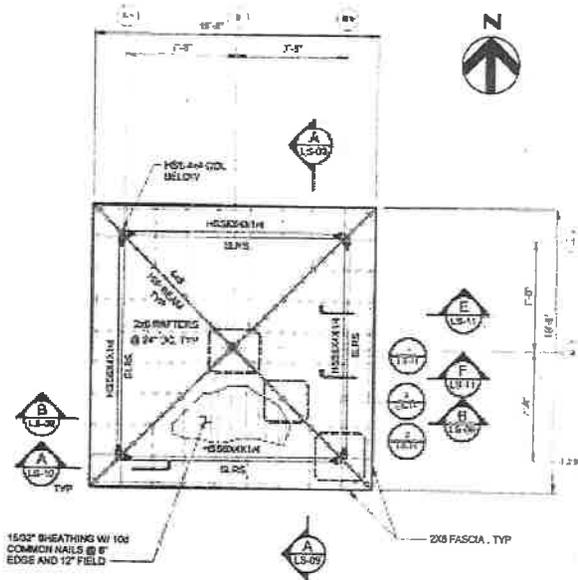
- NOTE:**
1. PLATFORM TOS EL = 821, UNO
 2. ALL DIMENSIONS TO CHANNELS ARE TO THE BACK OF CHANNEL.

LANDING PLAN
14' x 7'-2"



- NOTE:**
1. PLATFORM TOS EL = 18.71 UNO
 2. ALL DIMENSIONS TO CHANNELS ARE TO THE BACK OF CHANNEL.

PLATFORM PLAN
14' x 7'-2"



- NOTES:**
1. FOR STRUCTURAL NOTES, SEE LS-01

ROOF PLAN
14' x 7'-2"

REVISIONS: ALL REVISIONS MUST BE APPROVED BY THE DESIGNER AND THE CLIENT. NO REVISIONS WILL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE DESIGNER AND THE CLIENT.

SURVEY JOB RESOURCE	
CHECKED:	
CAO ENTERED:	J. PERLUCHINI
DESIGNED:	D. PRINDLE
CHECKED:	C. GIPSON
SUPERVISOR:	C. GIPSON

NO.	REVISION	BY	DATE

FLUSHING	
PROJECT NO.	112009
CONTRACT NO.	CV1416C20



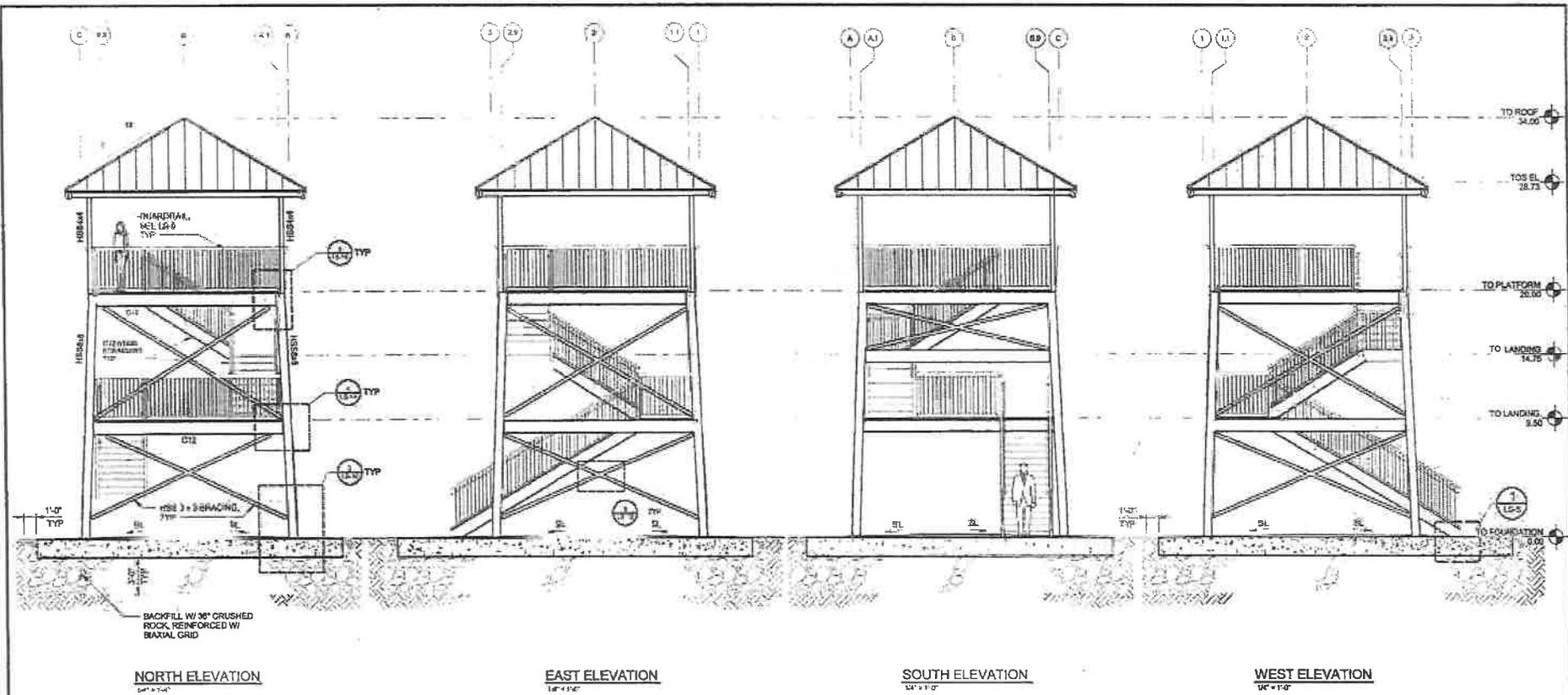
King County
 Department of Natural Resources and Parks
 Water and Land Resources Division
 River and Floodplain Management Section
 Chrste True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
 PHASE 2
OBSERVATION TOWER PLANS

SHEET
LS-07



CALL 2 WORKING DAYS BEFORE YOU DIG
 1-800-424-5555
 Know what's below. Call before you dig.



NORTH ELEVATION
1/4" = 1'-0"

EAST ELEVATION
1/4" = 1'-0"

SOUTH ELEVATION
1/4" = 1'-0"

WEST ELEVATION
1/4" = 1'-0"

NOTES:
1. FOR STRUCTURAL NOTES, SEE LS-01



CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555

Know what's below.
Call before you dig.

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
**OBSERVATION TOWER
ELEVATIONS**

SHEET
LS-08

SURVEY JOB NO SOURCE	
CHECKED:	
CAD ENTERED	J. PERUCHINI
DESIGNED	D. PRINDLE
CHECKED	C. GIPSON
SUPERVISOR	C. GIPSON

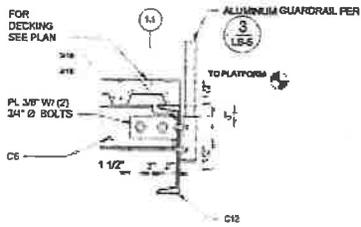
NUM	REVISION	BY	DATE

FUNDING	
PROJECT No	1112056
CONTRACT No.	C01416C20



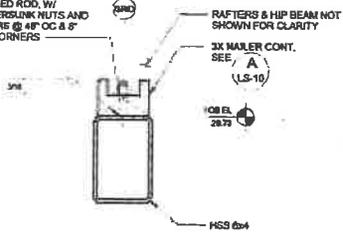
King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

LEGIBLE SECTION: 10/20/11 10:00 AM TO 10:00 AM
 C:\WORK\00000101 - ACQUENA - INTERVIEW - INTERVIEW - 10/20/11 10:00 AM
 30001

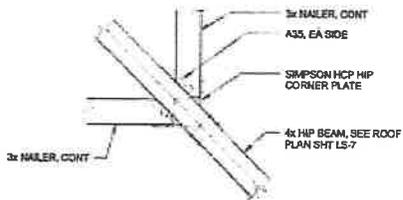


SECTION 1
1 1/2" x 1'-0"

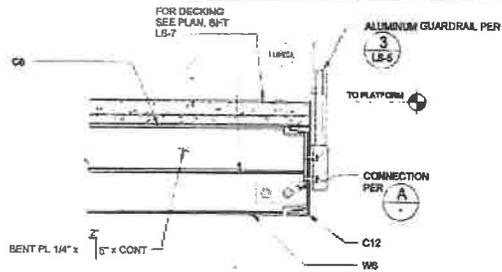
CONNECT 3x NAILER TO HSS 6x4 W/ 3/8" Ø WELDED THREADED ROD, W/ COUNTERSINK NUTS AND WASHERS @ 4" OC & 6" FROM CORNERS



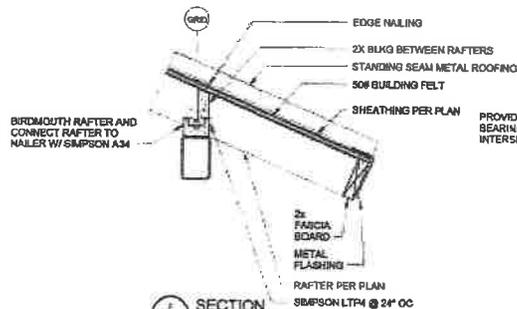
SECTION 2
1 1/2" x 1'-0"



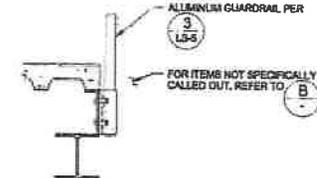
DETAIL 1
1 1/2" x 1'-0"



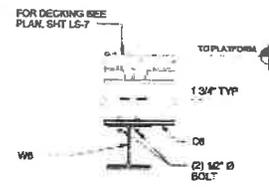
SECTION 3
1 1/2" x 1'-0"



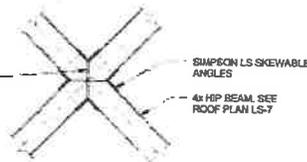
SECTION 4
1 1/2" x 1'-0"



SECTION 5
1 1/2" x 1'-0"

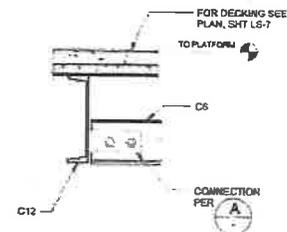


SECTION 6
1 1/2" x 1'-0"

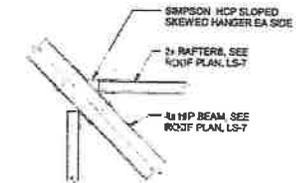


DETAIL 2
1 1/2" x 1'-0"

NOTE:
AT CONTRACTOR'S OPTION, CONNECTOR MAY BE REPLACED WITH A SINGLE LIGHT-GAGE STEEL BRACKET CAPABLE OF RESISTING A COMPRESSIVE FORCE OF 1200 LB UNDER SNOW LOADING AND A TENSILE FORCE OF 50 LB UNDER WIND LOADING



SECTION 7
1 1/2" x 1'-0"



DETAIL 3
1 1/2" x 1'-0"

SOURCE: FIELD NOTES, PHOTOGRAPHS, SURVEY DATA, CAD DRAWINGS, AND FIELD MEASUREMENTS. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

SURVEY JOB SOURCE	
CHECKED:	
CAD ENTERED:	J. PERLICHINI
DRAWN:	D. PRINDLE
CHECKED:	C. GIPSON
SUPERVISOR:	C. GIPSON

DATE	REVISION	BY	DATE
DATE	REVISION	APPROVED	BY

FUNDING	
PROJECT NO.	1112058
CONTRACT NO.	C01415C20



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

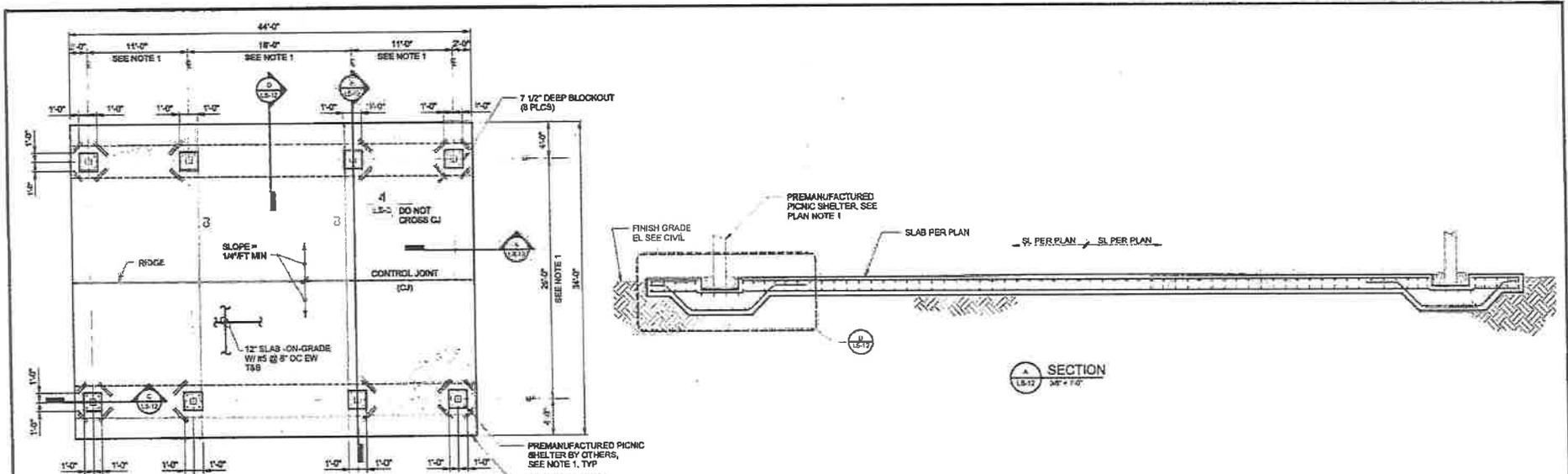
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555



Know what's below.
Call before you dig.

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
**OBSERVATION TOWER
DETAILS**

SHEET
LS-11



PICNIC SHELTER FOUNDATION PLAN
3/4" = 1'-0"

SECTION A
1/8" = 1'-0"

PREMANUFACTURED PICNIC SHELTER BY OTHERS, SEE NOTE 1, TYP.
FOR LOCATION OF SHELTER FOUNDATION, SEE CIVIL.

NOTES:

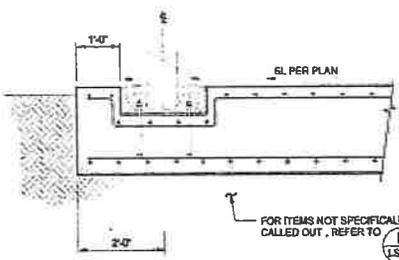
1. REFER TO SHELTER DRAWINGS BY OTHERS FOR COLUMN LOCATIONS, BASE PLATE AND ANCHOR SIZES.
2. FOR CONTROL JOINT, REFER TO SLS-3

SLOPE GROUT AWAY FROM COL. TYP.

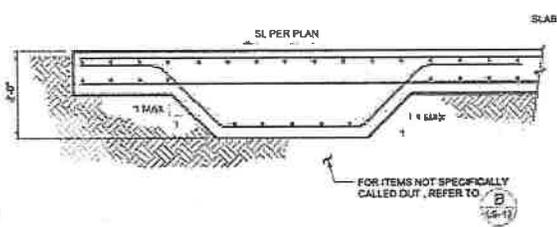
BLOCKOUT TO BE FILLED WITH CEMENTITIOUS GROUT, WITH COLOR TO MATCH SURROUNDING PAVING.



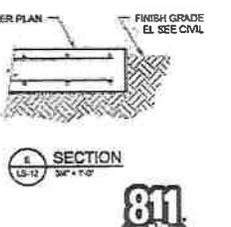
SECTION B
1/8" = 1'-0"



SECTION C
1/8" = 1'-0"



SECTION D
1/8" = 1'-0"



SECTION E
1/8" = 1'-0"

CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(SHOWING UTILITY LOCATIONS NEARBY)

811
Know what's below.
Call before you dig.

DESIGNER: EILEEN BROWN, 11/20/2015 10:45 AM
 C:\WORK\PROJECTS\2015\11\11052015_10_45 AM
 PROJECT: LOWER RUSSELL LEVEE SETBACK PROJECT
 SHEET: PICNIC SHELTER FOUNDATION PLAN AND DETAILS

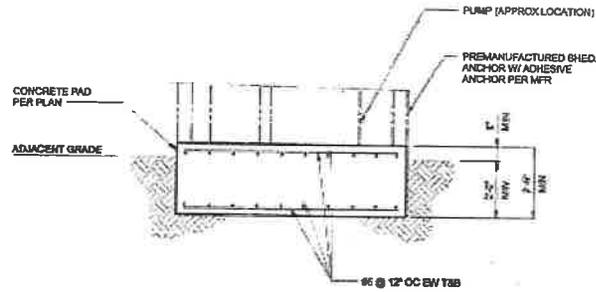
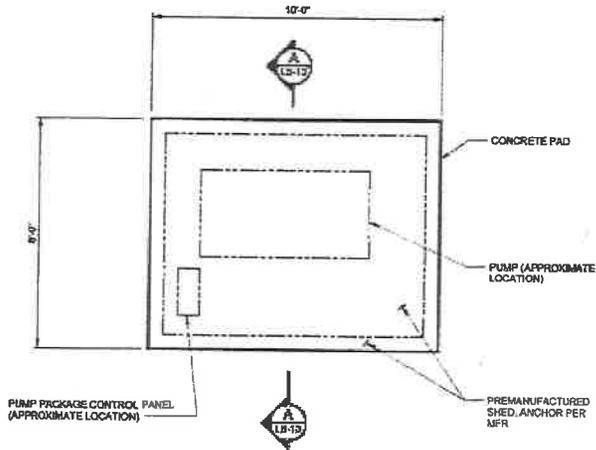
SURVEY JOB SOURCE		FUNDING	
CUSTOMER		PROJECT No. 1112056	
DESIGNED BY	J PERUCHINI	CONTRACT No.	021415020
DRAWN BY	D PRINOLE		
CHECKED BY	C GIPSON		
SUPERVISOR	C GIPSON		
DATE			
RECORD CHANGES APPROVED BY			



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie True, Director

LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
PICNIC SHELTER
FOUNDATION PLAN AND DETAILS

SHEET
LS-12



SECTION
1'-0" x 1'-0"

STORMWATER PUMP & ENCLOSURE FOUNDATION PLAN
187-A-1-2

UNDESIGNED & UNCONSTRUCTED AREAS SHOWN ARE FOR INFORMATION ONLY. THE USER SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.



CALL 2 WORKING DAYS
BEFORE YOU DIG
1-800-424-5555

Know what's below.
Call before you dig.

SURVEY JOB NO. SOURCE
CHECKED:
CAD ENTERED: J. PERUCHIN
DESIGNED: D. PRINDLE
CHECKED: C. GIPSON
SUPERVISOR: C. GIPSON

NO.	REVISION	BY	DATE

RECORD CHANGES APPROVED BY DATE

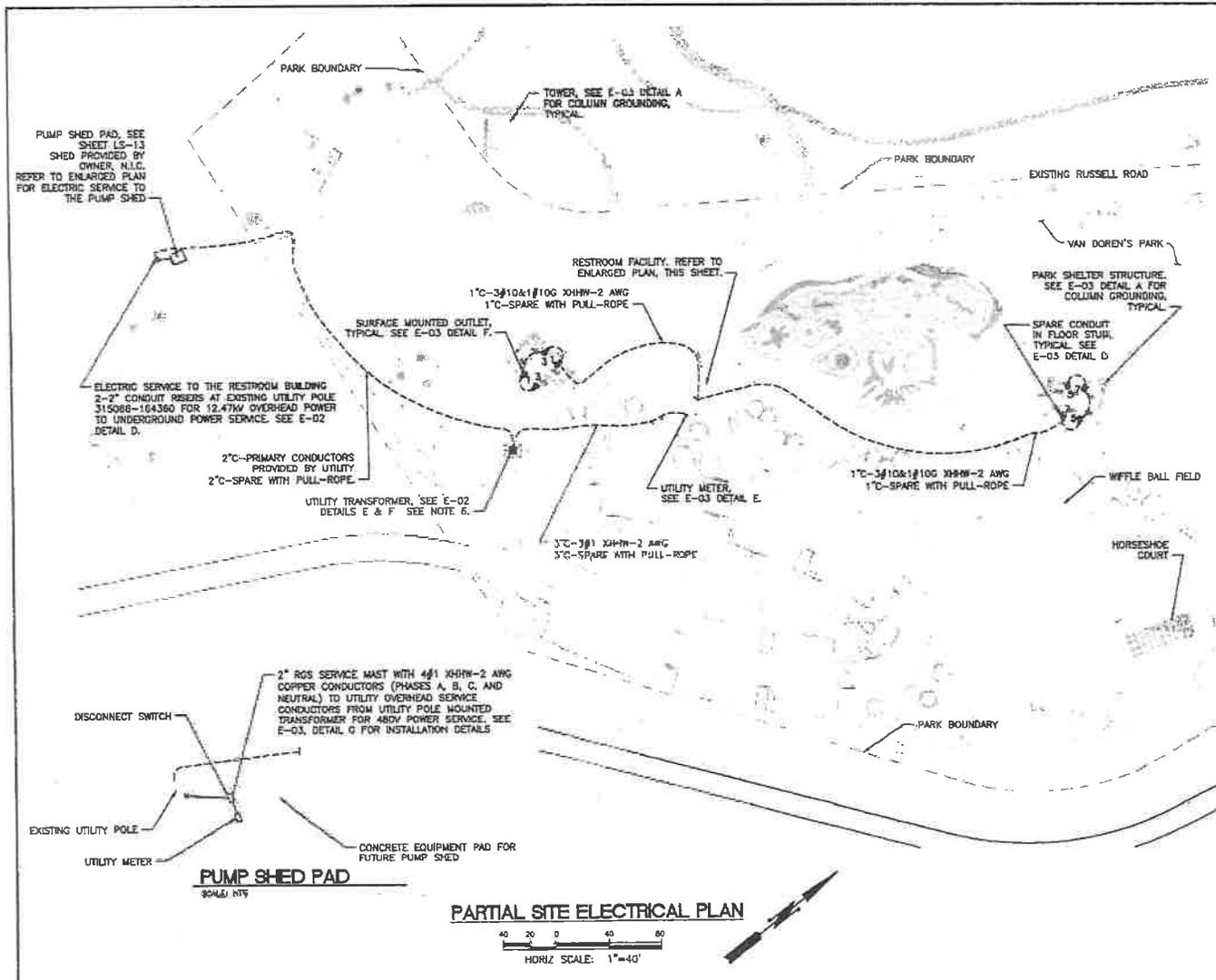
FUNDING
PROJECT NO. 1112058
CONTRACT NO. CD1415C20



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Chris True, Director

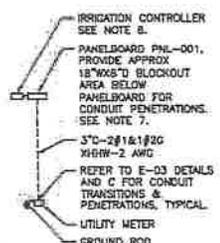
LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
STORMWATER PUMP AND
ENCLOSURE FOUNDATION PLAN
AND SECTION

SHEET
LS-13



ELECTRICAL LEGEND	
	ELECTRICAL EQUIPMENT ENCLOSURE; EQUIPMENT AS INDICATED, ESTIMATED SIZE AS SHOWN.
	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE
SUBSCRIPTS: Y - INDICATES CIRCUIT NUMBER FROM PANELBOARD	
	EXTERIOR PAD MOUNTED TRANSFORMER (ARROW POINTING TO FRONT)

- NOTES:**
- COORDINATE WITH UTILITY (PSE) FOR RISER AND UNDERGROUND ELECTRICAL FROM POWER UTILITY POLE TO NEW UTILITY TRANSFORMER AND METERING LOCATION AND FOR NEW DEDICATED SERVICE AND METERING LOCATION FOR FUTURE PUMP POWER CONNECTION.
REFER TO SECTION 26 05 00 1.4 FOR UTILITY AND CONTRACTOR DIVISION OF WORK.
REFER TO THE PSE ELECTRIC SERVICE HANDBOOK 2019 COMMERCIAL/INDUSTRIAL AND MULTI-FAMILY PROJECTS (1220).



- NOTE:**
- REFER TO SECTION 32 33 00 FOR FURTHER RESTROOM FACILITY REQUIREMENTS.

RESTROOM FACILITY
SCALE: NTS

- FIELD VERIFY THE LOCATION, RELOCATION, ABANDONMENT AND/OR TEMPORARY SUPPORT OF ALL UTILITIES, IN PARTICULAR ELECTRICAL UNDERGROUND AND ABOVE GROUND, AFFECTED BY CONSTRUCTION.
- ALL AREAS SHALL BE CONSIDERED WET, OUTDOOR AREAS.
- PROVIDE DUCTBANKS AS FOLLOWS:
 - FOR UTILITY PRIMARY SERVICE DUCTBANKS, SEE E-02 DETAIL A.
 - FOR DUCTBANKS UNDER ROADWAYS SEE E-02 DETAIL B.
 - FOR ALL OTHER DUCTBANKS, SEE E-02 DETAIL C.
- PROVIDE HANDHOLES AND JUNCTION BOXES AS REQUIRED TO FACILITATE CABLE PULLING FOR DISTANCES GREATER THAN 500 FEET AND TO KEEP TOTAL CONDUIT RUN BENDING RADIUS TO 270' OR LESS.
- PROVIDE GROUNDING FOR SINGLE PHASE 250VA 12.47KV-120/240V PAD MOUNTED UTILITY TRANSFORMER PER UTILITY REQUIREMENTS.
- ROWTEC RESTROOM PANELBOARD PNL-001 SHALL BE SERVICE ENTRANCE RATED 125A FRAME, 100A MAIN CIRCUIT BREAKER (MCB), 120/240V, 24 20A/1P CIRCUIT BREAKERS, NEMA 3R RATED.
- PROVIDE CONDUIT AND CONDUCTORS FOR POWER TO IRRIGATION CONTROLLER FROM PANELBOARD PNL-001, CMT 9, SIZE PER MANUFACTURER REQUIREMENTS.
- COORDINATE ROUTING AND LOCATION OF UNDERGROUND ELECTRICAL AMONG TRADES.



CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)
Know what's below.
Call before you dig.

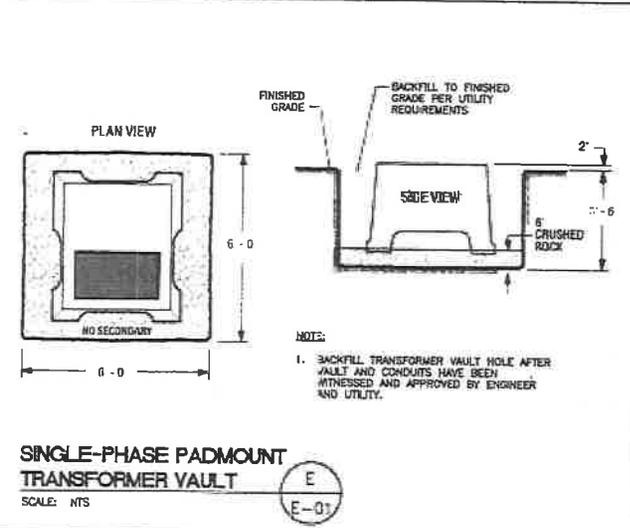
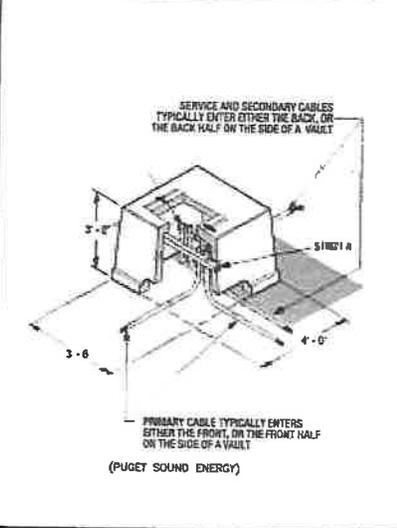
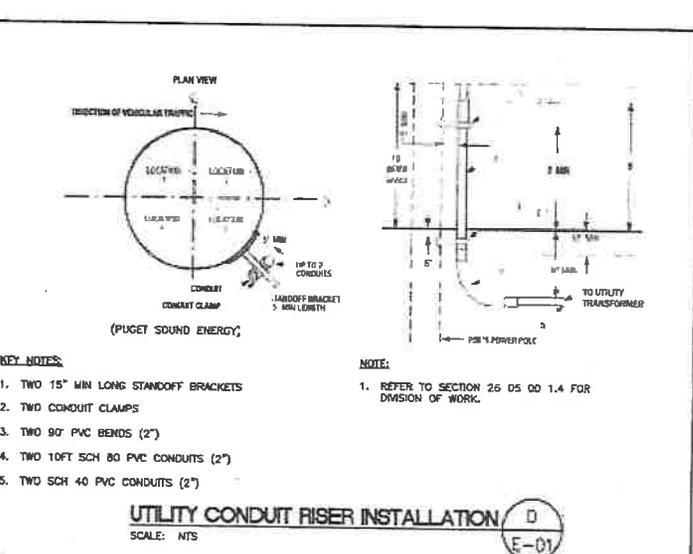
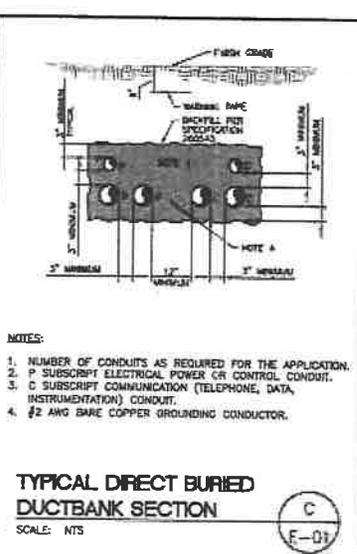
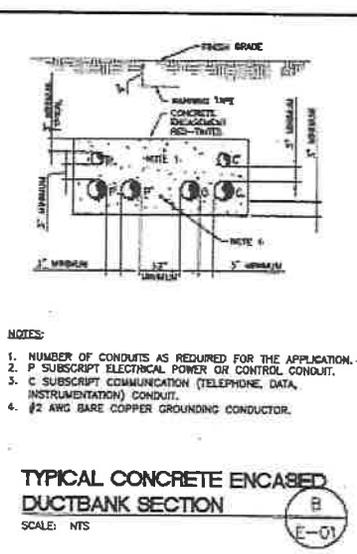
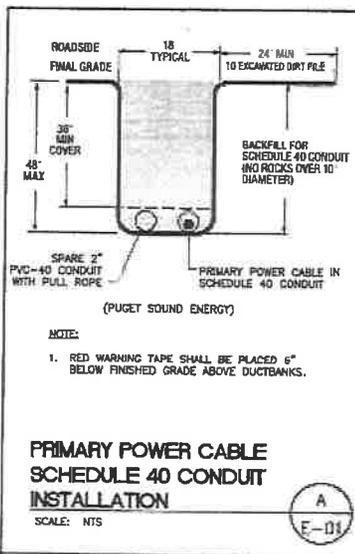
DATE	BY	REVISION	BY	DATE
11/18	EP			
11/19	MH			
11/19	IS			
11/19	IS			

FUNDING:	
PROJECT No.	1112056
CONTRACT No.	001415C2D



King County
Department of Natural Resources and Parks
Water and Floodplain Management Section
Chelsea Truss, Director

LOWER RUSSELL LEVEL SETBACK PROJECT		SHEET E-01
PHASE 2		
VAN DOREN'S PARK ELECTRICAL PLAN		



SURVEY JOB NO./SOURCE:						FUNDING:	
CHECKED:						PROJECT No.	1852058
DATE ENTERED:	EP	11/13				CONTRACT No.	001415020
DESIGNED:	MH	11/13	REVISION	BY	DATE		
CHECKED:	IR	11/13					
SUPERVISOR:	IR	11/13					
			RECORD CHANGES APPROVED	BY	DATE		



King County
Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Christie Triss, Director

811
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-424-5555
(OTHER/PLUMB UTILITY LOCATIONS ARE APPROX.)
Know what's below.
Call before you dig.

**LOWER RUSSELL LEVEE SETBACK PROJECT
PHASE 2
VAN DOREN'S PARK
ELECTRICAL DETAILS 1**

SHEET
E-02

