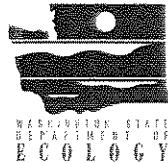




US Army Corps
of Engineers
Seattle District



Joint Public Notice

Application for a Department of the Army Permit and a Washington Department of Ecology Water Quality Certification and/or Coastal Zone Management Consistency Concurrence

US Army Corps of Engineers
Regulatory Branch
Post Office Box 3755
Seattle, WA 98124-3755
Telephone (206) 766-6438
Attn: Amy Klein, Project Manager

WA Department of Ecology
SEA Program
Post Office Box 47600
Olympia, WA 98504-7600
Telephone (360) 407-6068
Attn: SEA Program, Federal Permit
Coordinator

Public Notice Date: August 10, 2007
Expiration Date: September 8, 2007
Reference No.: NWS-2007-1127-NO
Name: City of Bellevue

5-Year Permit

Interested parties are hereby notified that the U.S. Army Corps of Engineers (Corps) and the Washington Department of Ecology (Ecology) have received an application to perform work in waters of the United States as described below and shown on the enclosed drawings.

The Corps will review the work in accordance with Section 404 of the Clean Water Act (CWA). Ecology will review the work pursuant to Section 401 of the CWA, with applicable provisions of State water pollution control laws and the Coastal Zone Management Act.

APPLICANT: City of Bellevue
450 110th Avenue Northeast
Mr. Bruce Jensen
Post Office Box 90012
Bellevue, Washington 98009
Telephone: (425) 452-7240

LOCATION: Coal Creek, a tributary to Lake Washington, at Bellevue, King County, Washington (Drawing 1)

WORK: Construct an in-stream sediment pond in Coal Creek that is 260 feet long and an average of 54 feet wide with a maximum depth of 6.5 feet (Drawings 3 through 7). Coal Creek is approximately 22 feet wide and 1.7 feet deep at the project location. Install six weir structures – four downstream of the pond and two upstream (Drawing 8). Install a temporary bypass during construction. Install a permanent bypass for annual maintenance. Install an access road.

Total project footprint is 0.60 acres, which includes 0.18 acres of stream channel and 0.42 acres of riparian buffer impact. Total fill proposed: 75 cubic yards. Total stream excavation: 1100 cubic yards (260 linear feet). Riparian excavation: 1400 cubic yards. Wetland impacts: none.

Proposed work start date: Summer 2010

Future maintenance: A new permit would be required for any future maintenance after the 5-year expiration of the individual permit. During annual maintenance, the crew will enter the downstream end of the pond via the proposed access path. Once fish within the sediment pond have been removed per an approved fish removal plan, the flow will be directed to a maintenance bypass line which will discharge back to the creek on the downstream end of the pond. Water remaining in the pond will be pumped into the woods or the Metro sewer line once the area has been inspected by the project biologist. The construction crew will remove and stockpile LWD on-site then excavate and dispose of the accumulated sediments from the pond in an approved upland disposal site. Excavation will be accomplished using an excavator and transported off-site with dump trucks. LWD will be returned and anchored in their original locations once maintenance is complete. Flow will then be redirected through the pond. Maintenance will take approximately two weeks.

MITIGATION: Install large woody debris along both banks and plant native vegetation along the pond edges and in the project vicinity for buffer mitigation, (Drawings 9 through 14). Note that the large woody debris will be secured with anchors but will be removable to facilitate annual maintenance.

PURPOSE: Reduce sediment supply to Coal Creek and Lake Washington, minimize flooding that is associated with high sedimentation levels, and improve water quality by minimizing erosion and sediment transport.

BACKGROUND: Many of the present flooding and sedimentation-related issues associated with Coal Creek are the result of almost 100 years of coal mining in the area (mid-1800s to mid-1900s). The coal mining operations produced approximately four million tons of waste, nearly all of which was disposed of in the Coal Creek canyon or returned to the mines. Mining waste deposits average between 5-25 feet deep but have been found to be up to 40 feet deep along the streambank in some locations. Episodic mine waste debris flows and erosion of the unstable material along the streambank contribute large amounts of sediment loading and downstream transport.

DREDGED MATERIAL MANAGEMENT PROGRAM (DMMP): Coordination is currently underway with the DMMP agencies. The review will determine if the proposed project will require sampling/testing of the newly exposed sediment surface below Ordinary High Water (OHW) at the excavated location in accordance with Sediment Management Standards "Sediment Quality Standards" (SQS) criteria for compliance with the Washington State "Anitidegradation Policy".

ENDANGERED SPECIES: The Endangered Species Act (ESA) requires federal agencies to consult with the National Marine Fisheries Service (NMFS) and/or U.S. Fish and Wildlife Service (USFWS) pursuant to Section 7 of ESA on all actions that may affect a species listed (or proposed for listing) under the ESA as threatened or endangered or any designated critical habitat.

After receipt of comments from this public notice, the U.S. Army Corps of Engineers will evaluate the potential impacts to proposed and/or listed species and their designated critical habitat.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the NMFS on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). The proposed action would impact EFH in the project area.

If the U.S. Army Corps of Engineers (Corps) determines that the proposed action may adversely affect EFH for federally managed fisheries in Washington waters, the Corps will initiate EFH consultation with the NMFS. The Corps' final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

CULTURAL RESOURCES: The District Engineer has reviewed the latest published version of the National Register of Historic Places, lists of properties determined eligible and other sources of information. There are no

recorded historic properties within the permit area. The proposed work is of such a limited nature and extent that little likelihood exists for the project to impinge upon an unrecorded historic property. The District Engineer invites responses to this public notice from Native American Nations or tribal governments; Federal, State, and local agencies; historical and archeological societies; and other parties likely to have knowledge of or concerns with historic properties in the area. This public notice initiates consultation under Section 106 of the National Historic Preservation Act with any Tribe that has information or concerns with historic properties in the proposed permit area.

PUBLIC HEARING: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

EVALUATION – CORPS - The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people.

The Corps is soliciting comments from the public; Native American Nations or tribal governments; Federal, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for the work. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

The described discharge will be evaluated for compliance with guidelines promulgated by the Environmental Protection Agency under authority of Section 404(b)(1) of the CWA. These guidelines require an alternative analysis for any proposed discharge of dredged or fill material into waters of the United States.

EVALUATION—ECOLOGY: Ecology is soliciting comments from the public; Federal, Native American Nations or tribal governments, State, and local agencies and officials; and other interested parties in order to consider and evaluate the impacts of this activity. Ecology will be considering all comments to determine whether to certify or deny certification for the proposed project.

COMMENT AND REVIEW PERIOD: Conventional mail or e-mail comments on this public notice will be accepted and made part of the record and will be considered in determining whether it would be in the public interest to authorize this proposal. In order to be accepted, e-mail comments must originate from the author's e-mail account and must include on the subject line of the e-mail message the permit applicant's name and reference number as shown below. Either conventional mail or e-mail comments must include the permit applicant's name and reference number, as shown below, and the commentator's name, address, and phone number. All comments whether conventional mail or e-mail must reach this office, no later than the expiration date of this public notice to ensure consideration.

NWS-2007-1127-NO

Corps comments: All e-mail comments should be sent to Amy.S.Klein@usace.army.mil. Conventional mail comments should be sent to U.S. Army Corps of Engineers, Regulatory Branch, Ms. Amy Klein, Post Office Box 3755, Seattle, Washington, 98124-3755.

Ecology Comments: Any person desiring to present views on the project pertaining to a request for water quality certification under Section 401 of the CWA and/or Coastal Zone Management consistency concurrence, may do so by submitting written comments to the following address: Department of Ecology, Attn: SEA program – Federal Permit Coordinator, Post Office Box 47600, Olympia, Washington, 98504-7600, or e-mail to ecyrefedpermit@ecy.wa.gov

To ensure proper consideration of all comments, responders must include the following name and reference number in the text of their comments: City of Bellevue, NWS-2007-1127-NO.

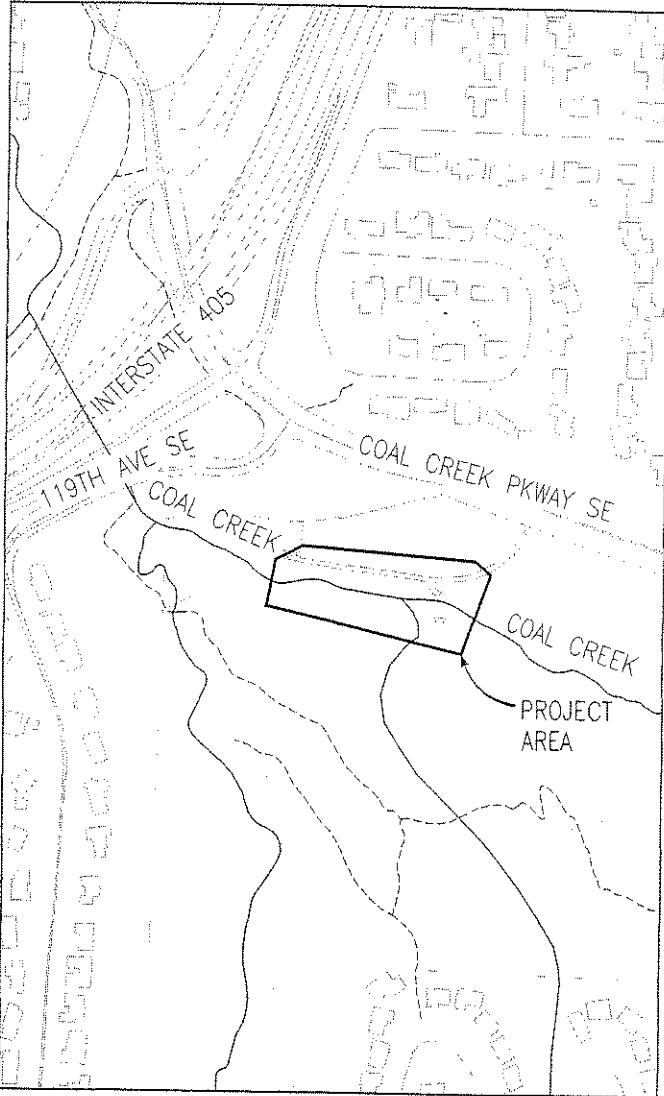
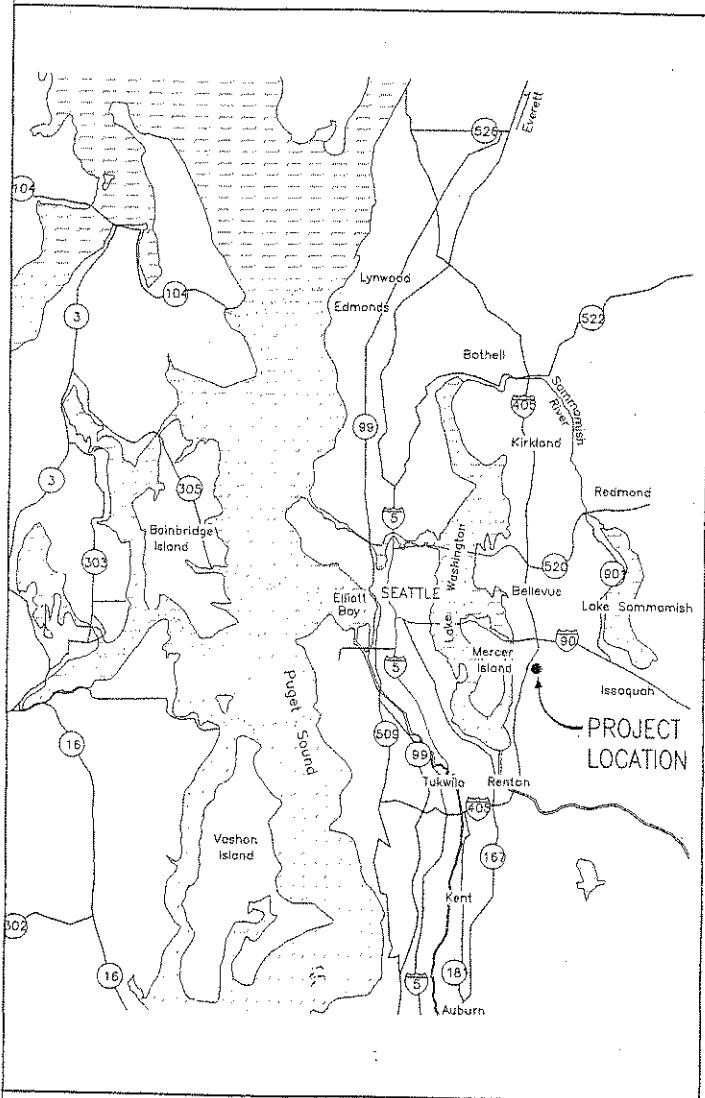
Encl: Figures (14)

SECTION 16

TOWNSHIP 24N

RANGE 5E

LAT 47°33'57.68" N, LONG 122°10'43.16" W

**LOCATION MAP**

APPROXIMATE SCALE :

1" = 8 MILES

1"=8 mi Scale Miles

VICINITY MAP

SCALE: 1" = 400'

1"=400' Scale Feet

PROJECT NAME: LOWER COAL CREEK
SEDIMENTATION POND

PURPOSE: SEDIMENT REMOVAL

DATUM: NAVD 88

REFERENCE NO.: N/A

COUNTY OF: KING

WATER BODY: COAL CREEK

PROJECT LOCATION MAPSSITE: ALONG COAL CREEK, APPROX FROM 550 TO
LOCATION: 880 FEET UPSTREAM OF I-405 CROSSING,
ADDRESS: BELLEVUE, WA

APPLICATION BY: CITY OF BELLEVUE

DATE: JUL 23 2007

SHEET

1 OF 14

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CONIFEROUS TREE		WETLAND
	DECIDUOUS TREE		REMOVAL
	LWD CLUSTER		BYPASS STRUCTURE
	LOG WEIR		BYPASS PIPE
			MANHOLE

LINETYPES

	PROPERTY BOUNDARY
	CREEK CENTERLINE
	CONSTRUCTION LIMITS
	WETLAND BOUNDARY
	SANITARY SEWER (EXIST)
	ORDINARY HIGH WATER MARK (OHWM)

COAL CREEK SED. POND CONST SEQUENCE NOTES

1. FLAG CONSTRUCTION LIMITS AND TREES TO BE SAVED OR REMOVED.
2. INSTALL TESC BMP'S.
3. RELOCATE FISH, BEAVER, AND OTHER WILDLIFE AS NECESSARY.
4. INSTALL AND ACTIVATE TEMPORARY CREEK BYPASS SYSTEM.
5. INSTALL DEWATERING WELLS. OPERATE AS NEEDING DURING SEDIMENTATION POND EXCAVATION.
6. CLEAR AND GRUB CONSTRUCTION AREA.
7. EXCAVATE SEDIMENTATION POND.
8. INSTALL LOG WEIRS AND LARGE WOODY DEBRIS CLUSTERS.
9. INSTALL PERMANENT BY-PASS SYSTEM.
10. BEGIN PLANTING.
11. REMOVE TEMPORARY CREEK BY-PASS SYSTEM, ACTIVATE SEDIMENTATION POND, REMOVE TESC BMP'S, AND RESTORE SITE.

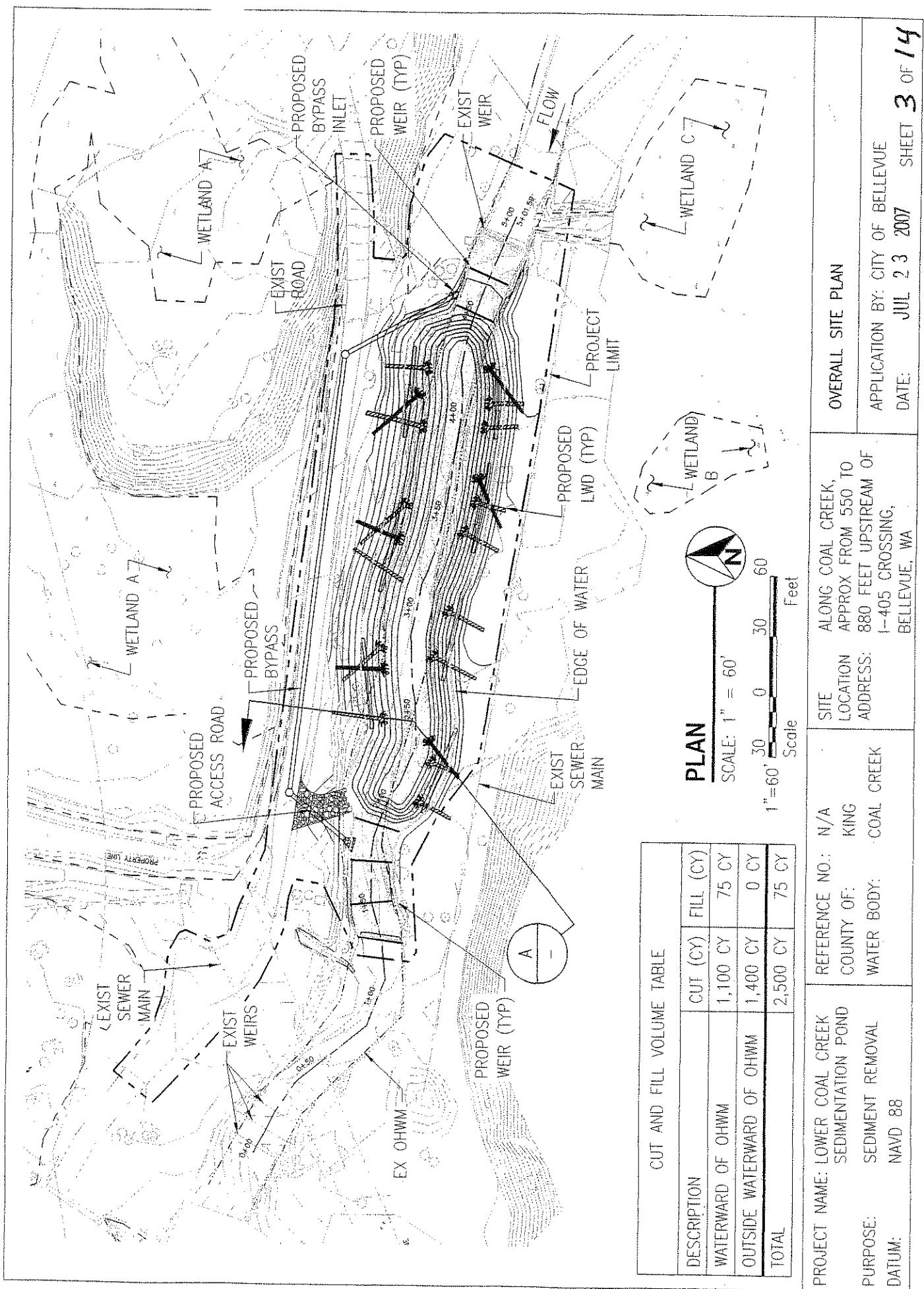
ABBREVIATIONS

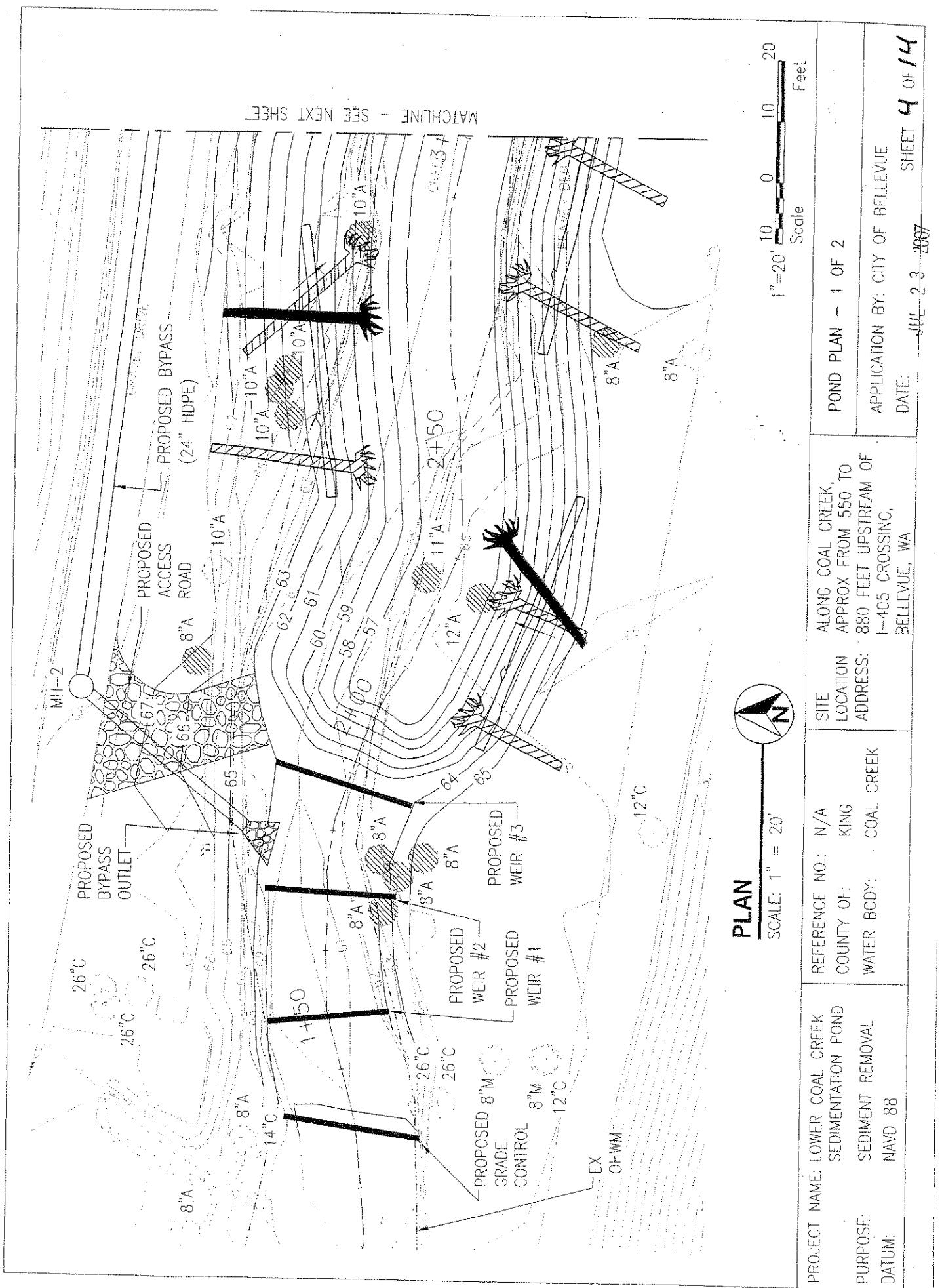
A	ALDER
APPROX	APPROXIMATE
AVG	AVERAGE
C	COTTONWOOD
CL	CENTERLINE
CY, CU YD	CUBIC YARD
DIA OR DIAM	DIAMETER
DWG	DRAWING
E	EAST
EL, ELEV	ELEVATION
EXIST, EX	EXISTING
GC	GRADE CONTROL LOG
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HORIZ	HORIZONTAL
IE	INVERT ELEVATION
LWD	LARGE WOODY DEBRIS
M	MAPLE
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
N	NORTH
NE	NORTHEAST
NTS	NOT TO SCALE
PVC	POLYVINYL CHLORIDE
S	SOUTH, SLOPE
SD	STORM DRAIN
SE	SOUTHEAST
SS	SANITARY SEWER
STA	STATION
ST	STREET
TYP	TYPICAL
VERT	VERTICAL
W	WEST, WATER
WSEL	WATER SURFACE ELEVATION

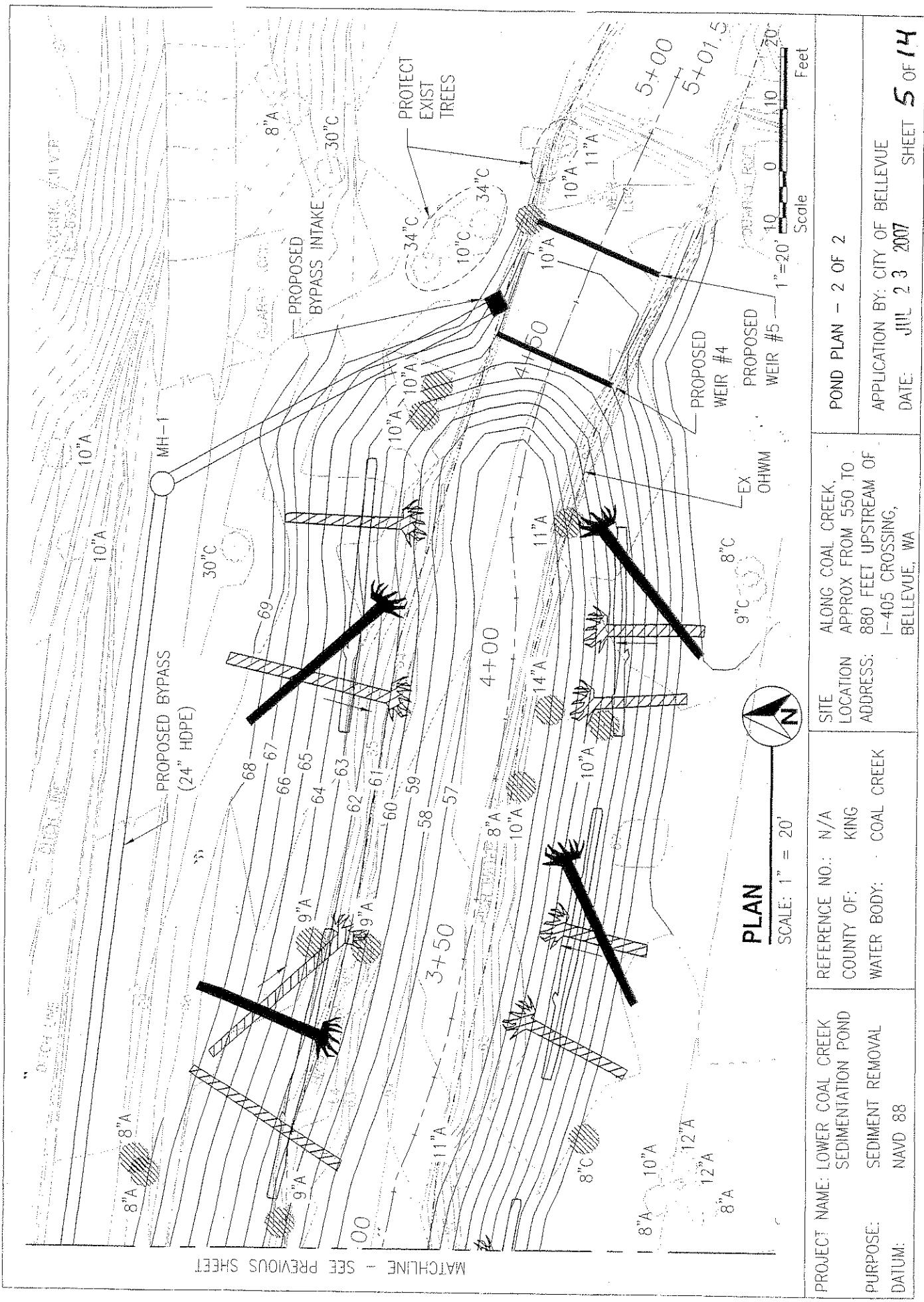
PROJECT NAME: LOWER COAL CREEK
SEDIMENTATION POND
PURPOSE: SEDIMENT REMOVAL
DATUM: NAVD 88
REFERENCE NO.: N/A
COUNTY OF: KING
WATER BODY: COAL CREEK

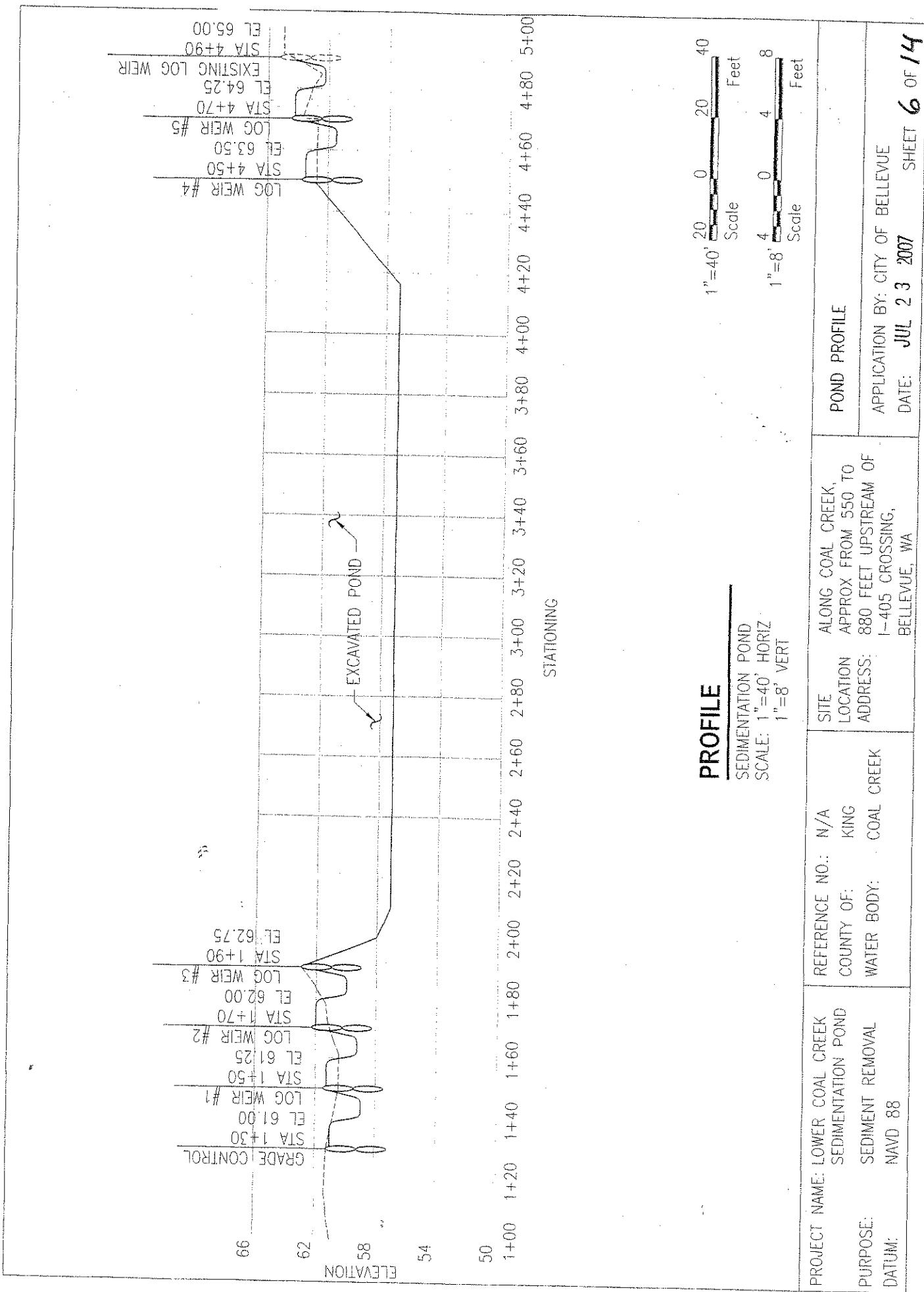
LEGEND, ABBREVIATIONS, AND NOTES

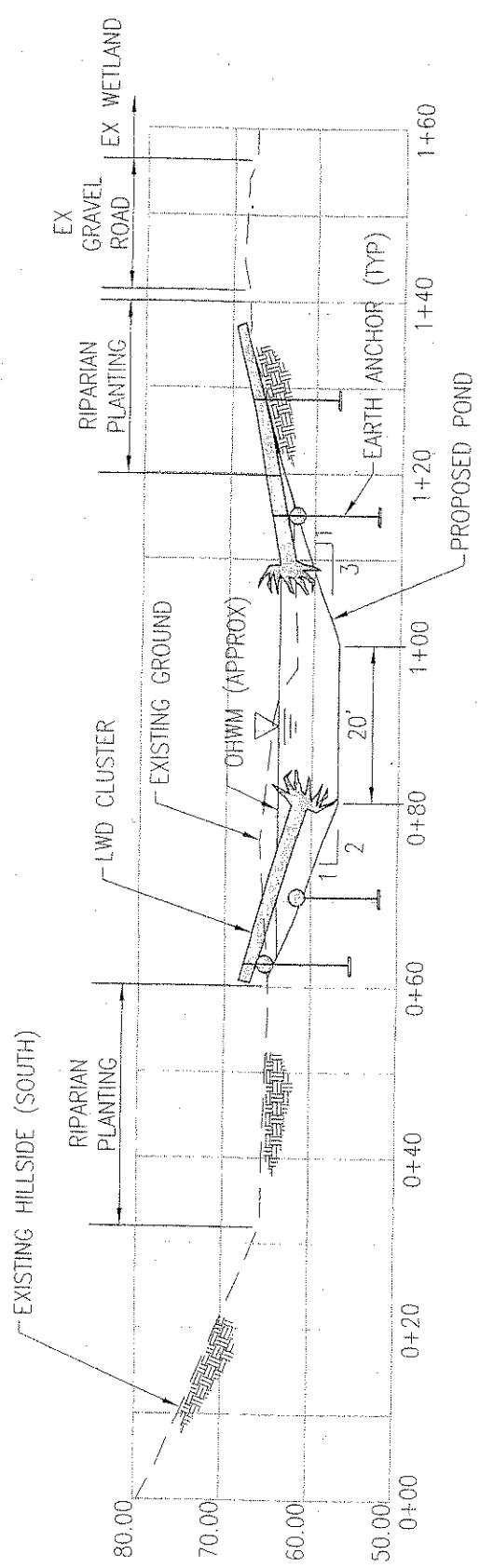
SITE: ALONG COAL CREEK, APPROX FROM 550 TO 880 FEET UPSTREAM OF I-405 CROSSING,
LOCATION: BELLEVUE, WA
ADDRESS:
APPLICATION BY: CITY OF BELLEVUE
DATE: JUL 23 2007 SHEET 2 OF 14





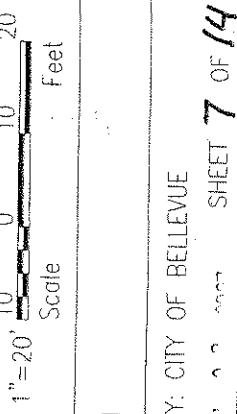




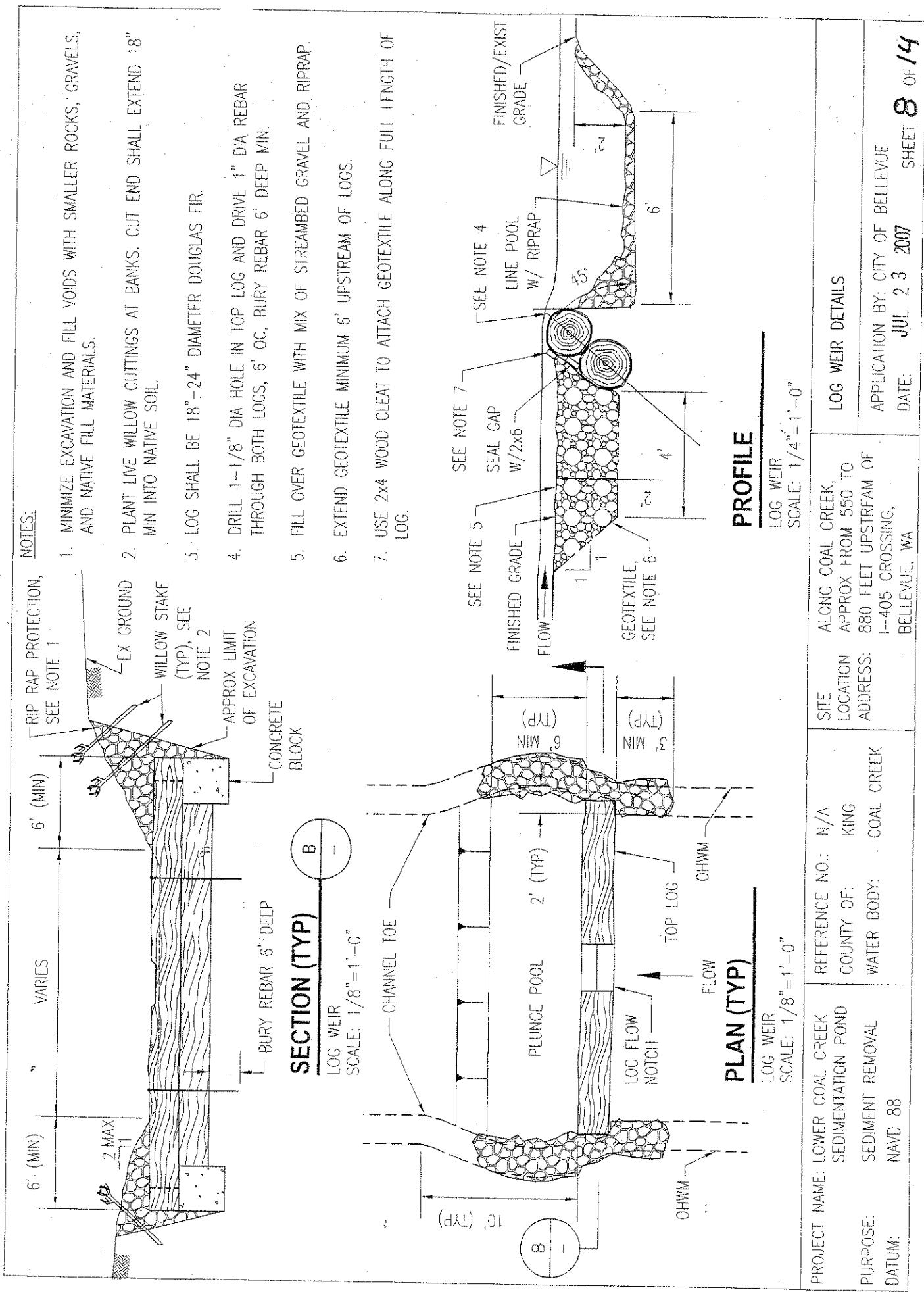


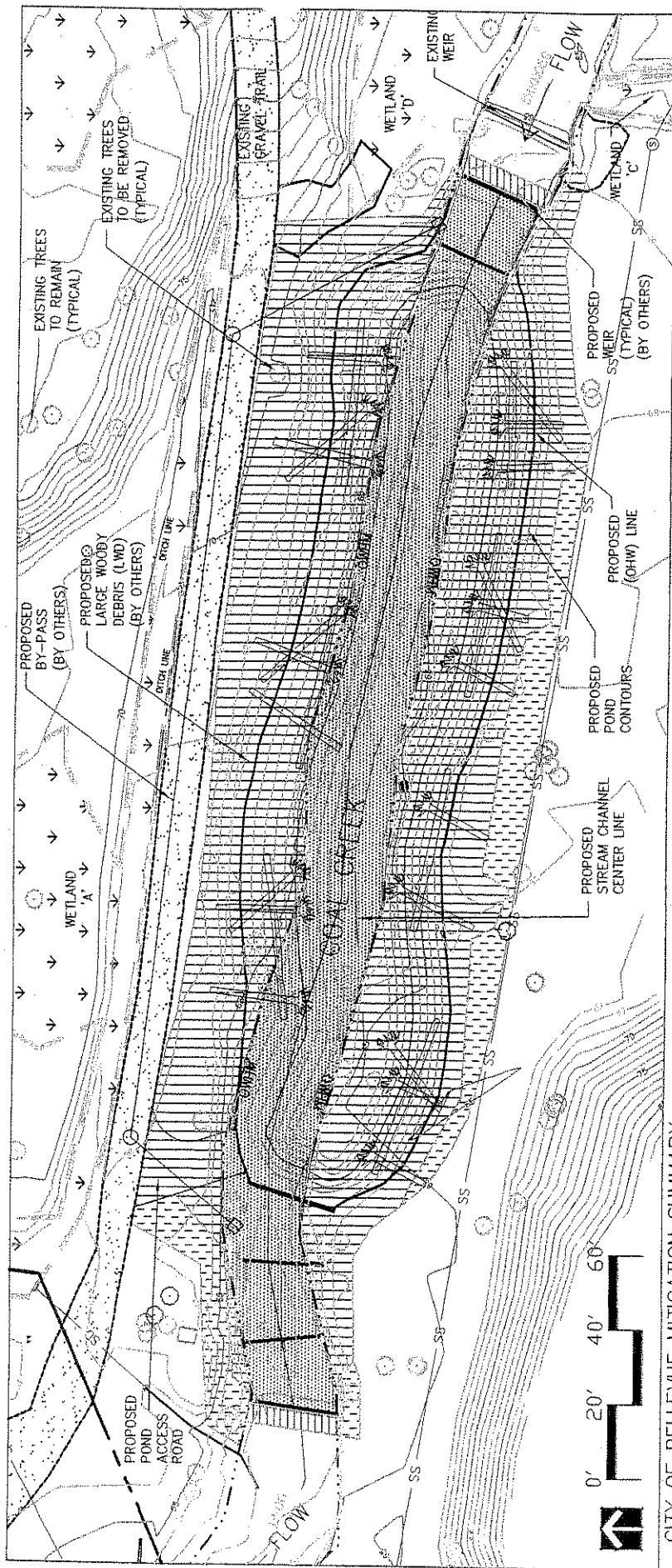
SECTION
SEDIMENTATION

SEDIMENTATION POND
SCALE: 1" = 20"



PROJECT NAME:	LOWER COAL CREEK SEDIMENTATION POND	REFERENCE NO.:	N/A	SITE LOCATION:	ALONG COAL CREEK, APPROX FROM 550 TO 880 FEET UPSTREAM OF I-405 CROSSING,	POND SECTION
PURPOSE:	SEDIMENT REMOVAL	COUNTY OF:	KING	ADDRESS:	BELLEVUE, WA	APPLICATION BY: CITY OF BELLEVUE
DATUM:	NAVD 88	WATER BODY:	COAL CREEK	DATE:	" " " "	SHEET 7 OF 14





CITY OF BELLEVUE MITIGATION SUMMARY
STREAM IMPACT (FROM POND)

PERMANENT IMPACT :	7,647 S.F.	PROPOSED MITIGATION	③ 1:1 enhancement	7,647 S.F.	(0.17 AC)
TEMPORARY IMPACT :	252 S.F.		③ 1:1 enhancement	252 S.F.	(0.01 AC)
		MITIGATION REQUIRED =	7,899 S.F.	(0.18 AC)	

STREAM BUFFER IMPACT (FROM POND)

PERMANENT IMPACT :	16,184 S.F.	PROPOSED MITIGATION	③ 1:1 enhancement	16,184 S.F.	(0.37 AC)
TEMPORARY IMPACT :	2,114 S.F.		③ 1:1 enhancement	2,114 S.F.	(0.05 AC)
		MITIGATION REQUIRED =	18,298 S.F.	(0.42 AC)	

TOTAL STREAM MITIGATION REQUIRED = 26,197 S.F. (0.60 AC)

TOTAL STREAM MITIGATION PROVIDED = 55,099 S.F. (1.25 AC)

EXISTING WETLAND

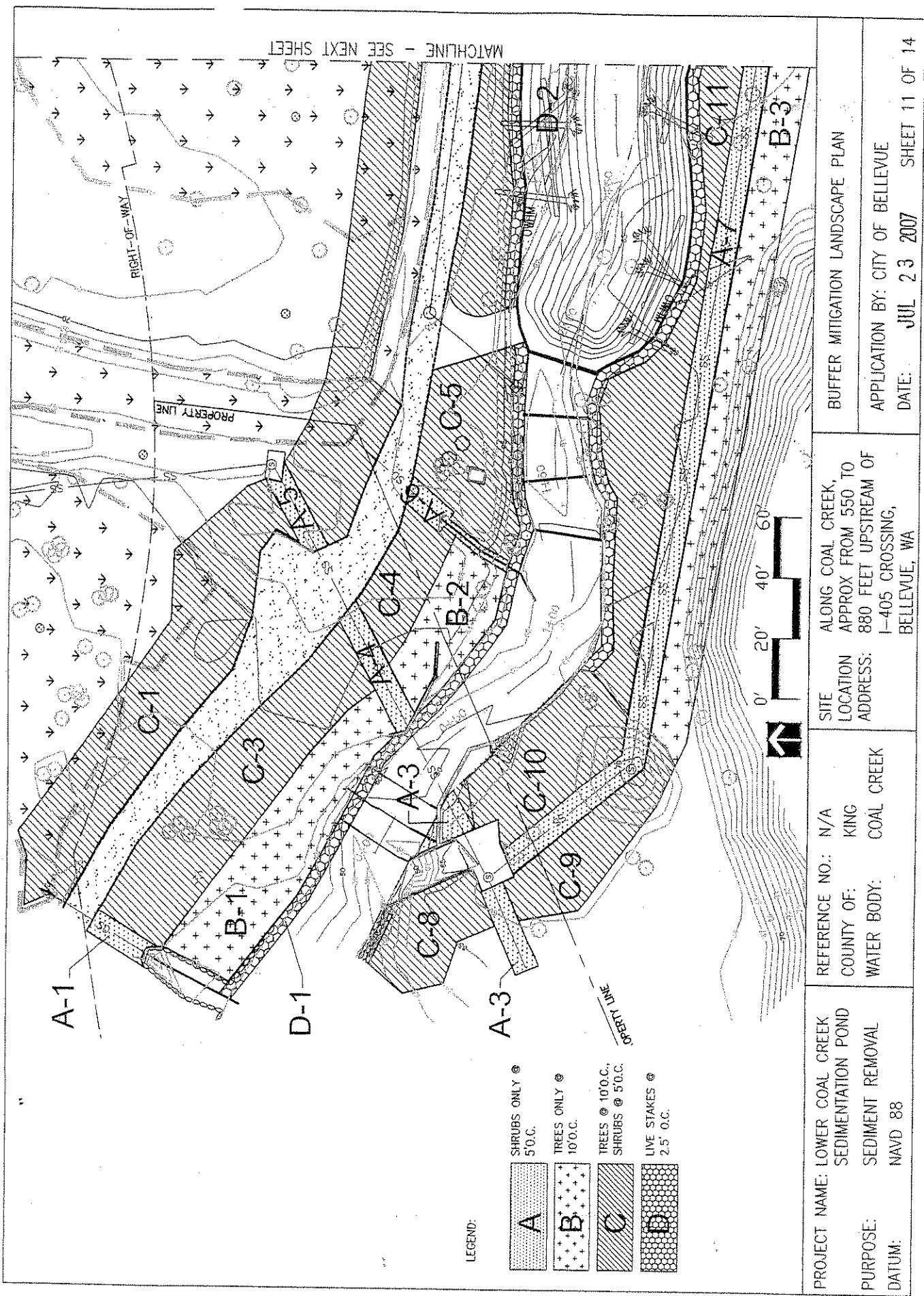
EXISTING TREES TO BE REMOVED

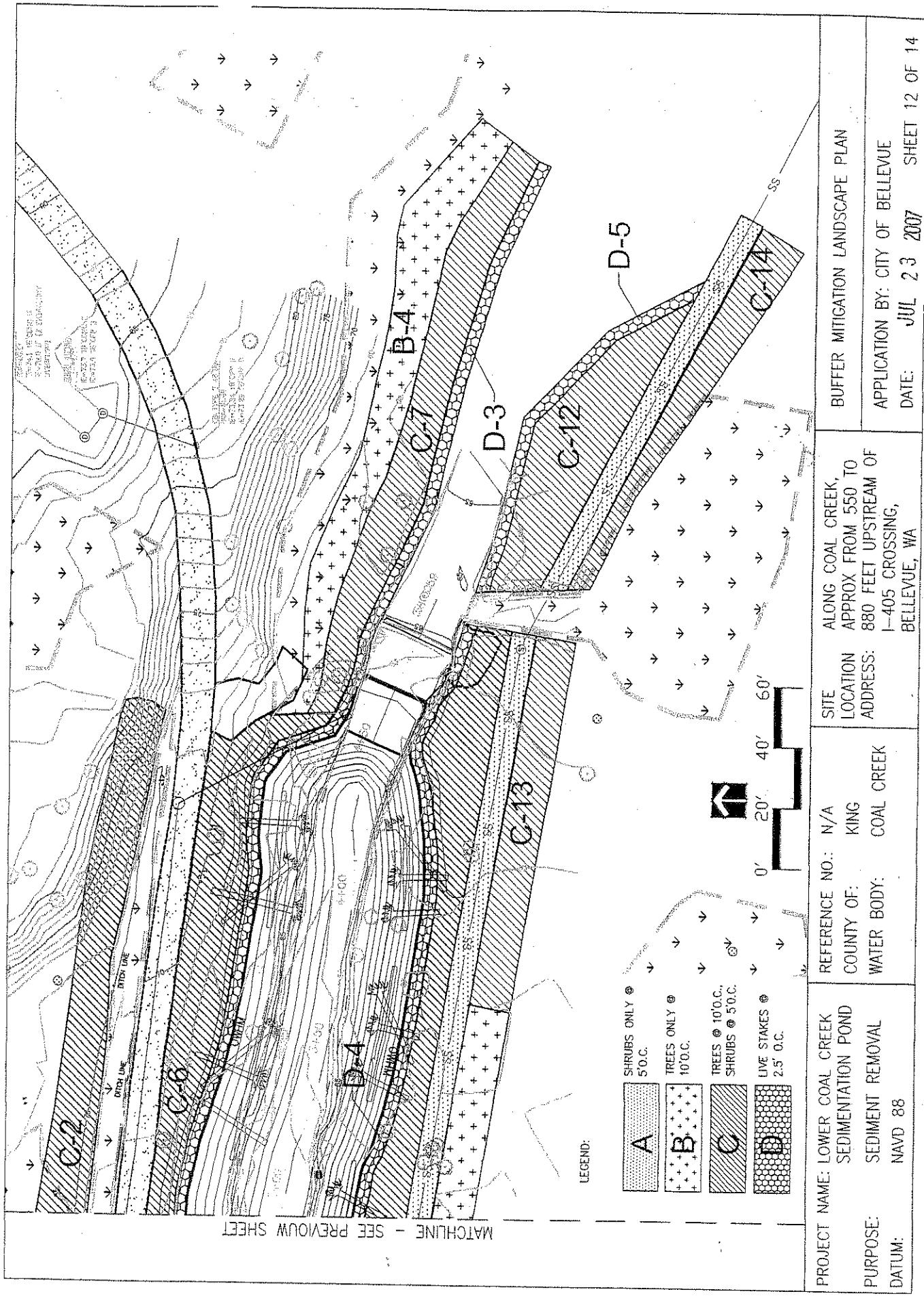
MITIGATION SUMMARY SHEET

PROJECT NAME: LOWER COAL CREEK SEDIMENTATION POND	REFERENCE NO.: N/A	SITE LOCATION ALONG COAL CREEK, APPROX FROM 550 TO 880 FEET UPSTREAM OF I-405 CROSSING, BELLEVUE, WA	MITIGATION SUMMARY SHEET
PURPOSE: SEDIMENT REMOVAL	COUNTY OF: KING	ADDRESS: COAL CREEK	APPLICATION #3: CITY OF BELLEVUE DATE: JULY 23, 2017
DATUM: NAVD 88			

SHEET 9 OF 14

1.0 MIGRATION PLAN OVERVIEW		4.0 MONITORING PLAN		5.0 CONSTRUCTION OBSERVATION		
1.1 UNAVOIDABLE IMPACTS COAL CREEK	A NEW SEDIMENT CONTROL POND HAS BEEN DESIGNED FOR COAL CREEK, LOCATED WITHIN THE CITY LIMITS OF BELLEVUE. THE POND IS TO CONTROL SEDIMENTATION FLOW INTO LAKE WASHINGTON. CONSTRUCTION OF THE POND WILL RESULT IN 7,647 SF (0.17 AC) OF PERMANENT UNAVOIDABLE IMPACTS FROM EXCAVATION OF THE POND, AND 252 SF (0.01 AC) OF TEMPORARY IMPACTS FROM THE CONSTRUCTION OF WEIRS LOCATED UPSTREAM AND DOWNSTREAM OF THE SEDIMENT POND.	MITIGATION MONITORING SHALL BE CONDUCTED BY A WETLAND BIOLOGIST FOR FIVE (5) YEARS WHICH INCLUDES THE INSTALLATION INSPECTION (ONE YEAR WARRANTY INSPECTION). THE OBJECTIVE OF THE MONITORING PROGRAM SHALL BE TO ASSESS REVEGETATION SUCCESS. REPORTS REGARDING MONITORING RESULTS SHALL BE SUBMITTED TO THE CITY OF BELLEVUE, DEPARTMENT OF PLANNING AND URBAN DEVELOPMENT BY DECEMBER 31 OF YEARS 1 THROUGH 5. THE MONITORING RESULTS SHALL BE RELATED TO THE PERFORMANCE STANDARDS AND IF WARRANTED, RECOMMENDATIONS SHALL BE MADE BASED ON THESE FINDINGS.	4.1 ESTABLISHMENT OF SENSITIVE AREAS	5.1 PRE-CONSTRUCTION MEETING	5.2 MARKING OF CONSTRUCTION LIMITS FOR MITIGATION AREA BOUNDARIES	
1.2 UNAVOIDABLE IMPACTS TO STREAM BUFFER	CONSTRUCTION OF THE PROJECT (SEDIMENT CONTROL POND), WILL RESULT IN UNAVOIDABLE PERMANENT IMPACT TO 16,184 SF (0.37 AC) AND TEMPORARY IMPACT TO 2,114 SF (0.05 AC) OF STREAM BUFFER. THE EXISTING STREAM BUFFER CONSIST OF NATIVE FORESTED TREES AND SHRUBBS.	ENROLLMENT INTO SENSITIVE AREAS SHALL BE MOONPHORED DURING EACH YEST. THE SENSITIVE AREAS SHALL BE INDIVIDUALLY CLEARED, TRASH DUMP AND OTHER UNAUTHORIZED DISTURBANCES AND ENRODGMENTS IN THE SENSITIVE AREAS SHALL BE NOTED AND DIRECDED TO CITY OF BELLEVUE ATTENTION.	4.2 VEGETATION ESTABLISHMENT	5.3 PLANTING PLAN	5.4 POST-CONSTRUCTION MEETING	
1.3 MITIGATION APPROACH	STREAM IMPACTS	ALL MITIGATION ISLANDS SHALL BE MOONPHORED FOR 5 YEARS AND SHALL INCLUDE REFERENCE PHOTOGRAPHS. SAMPLING FOR COVER, USING THE LINE-INTERCEPT METHOD, ALONG THE STREAM BANKS, SHALL BE TAKEN FROM CONSISTENT PHOTOPONTS. ALL PLANTED TREES AND SHRUBS SHALL BE EVALUATED IN YEARS 2, 3, 4, AND 5 TO DOCUMENT VEGETATION DEVELOPMENT. THE INITIAL MONITORING SHALL BE A COMPLETE CELESTIS OF PLANTS AND SHALL OCCUR 1 YEAR AFTER INSTALLATION IN ORDER TO IMPLEMENT THE ONE YEAR WARRANTY TO BE PROVIDED BY THE LANDSCAPE CONTRACTOR.	4.3 MITIGATION MAINTENANCE	5.5 CONSTRUCTION OBSERVATION	5.6 CONSTRUCTION OBSERVATION	
	MITIGATION FOR THE CREATED POND IN COAL CREEK WILL BE ACCOMPLISHED BY STREAM BUFFER ENHANCEMENT THAT INCLUDES THE INSTALLATION OF LARGE WOODY DEBRIS (LWD) WITHIN THIS POND AND 1,000 CONIFER TREE SAPLINGS UPSTREAM OF THE POND. THE MITIGATION AREA IS THE RESULT OF STREAM IMPACTS MULTIPLIED BY MITIGATION RATIOS ESTABLISHED BY THE CITY OF BELLEVUE. CITY OF BELLEVUE REQUIRES A 1:1 MITIGATION RATIO, RESULTING IN 1,489 SF OF ENHANCED STREAM BUFFER NEXT TO THE PROJECT AREA SHALL BE CLEARED OF INVASIVE WEEDS AND PLANTED WITH NATIVE TREES AND SHRUBS TO IMPROVE FUNCTIONS (PRIMARY STREAM COVER) AND PROVIDE GREATER PLANT DIVERSITY. LARGE WOODY DEBRIS (LWD) WILL BE INSTALLED ON THE POND BANKS TO PROTECT FISH AND MUDDE HABITAT AND 1,000 CONIFEROUS TREE SAPLINGS WILL BE INSTALLED UPSTREAM OF THE POND.	WHEN THE MITIGATION AREAS SHALL BE PERFORMED BY THE LANDSCAPE CONTRACTOR DURING THE ONE YEAR WARRANTY PERIOD. FOLLOWING THE ONE YEAR WARRANTY PERIOD, MAINTENANCE SHALL BE PERFORMED AS NECESSARY. MAINTENANCE ACTIONS SHALL BE RECOMMENDED BY THE MONITORING BIOLOGIST. MAINTENANCE ACTIONS SHALL BE PERFORMED BY THE LANDSCAPE CONTRACTOR DURING THE ONE YEAR WARRANTY PERIOD. MAINTENANCE SHALL BE ENSURE MITIGATION GOALS AND OBJECTIVES ARE MET. IMPLEMENTATION OF MAINTENANCE ACTIONS IS THE RESPONSIBILITY OF THE PROJECT PROponent (CITY OF BELLEVUE).	4.4. MITIGATION SEQUENCING	5.7 CONTINGENCY PLAN	5.8 PERFORMANCE SECURITY	
	2.0 MITIGATION GOALS AND OBJECTIVES	THE MITIGATION PLAN HAS ONE MITIGATION GOAL. THE GOAL IS TO RESTORE AND MAINTAIN THE STREAM BUFFER ENHANCEMENT. A TOTAL OF 52,909 SF (1.26 AC) WILL OCCUR ALONG THE NORTH AND SOUTH SIDES OF COAL CREEK BUFFER. ENHANCEMENT AREAS SHALL BE CLEARED OF INVASIVE WEEDS AND PLANTED WITH NATIVE TREES AND SHRUBS TO PROVIDE VEGETATION CANOPY, AND IMPROVE PLANT DIVERSITY AND WILDLIFE HABITAT.	THE MITIGATION PLAN HAS ONE MITIGATION GOAL.	CONSTRUCTION OF THE MITIGATION SITES SHALL. GENERALLY INCLUDE:	A. MITIGATION COST ESTIMATE: BOND ESTIMATE (INCLUDES LABOR, MATERIALS, MAINTENANCE AND MONITORING FOR 5 YEARS, 30% CONTINGENCY AND MOBILIZATION)	B. THE PERFORMANCE BOND (120% OF A) IS ESTIMATED TO BE:
	3.0 PERFORMANCE STANDARDS	PERFORMANCE STANDARDS HAVE BEEN ESTABLISHED THAT CORRESPOND TO THE STATED MITIGATION GOALS AND OBJECTIVES. THESE STANDARDS ARE THE PRIMARY FACTORS THAT SHALL BE USED TO ASSESS THE SUCCESS OF THE MITIGATION PROJECT. IT SHALL BE EXCEDIENDLY IMPORTANT TO EVALUATE THE DEVELOPMENT OF THE MITIGATION PLAN WHILE DETERMINING WHETHER EACH INDIVIDUAL STANDARD HAS BEEN MET OR NOT. WHILE SPECIFIC PERFORMANCE CRITERIA PROVIDE IMPORTANT BENCHMARKS AND SHALL HELP TO DIRECT MAINTENANCE AND OVERALL EFFORTS, THE SUCCESS OF MITIGATION MUST BE MEASURED AGAINST THE GOALS AND OBJECTIVES OF THE OVERALL MITIGATION PLAN. BY MONITORING THE PROJECT AND COMPARING MONITORING TO PERFORMANCE CRITERIA, A DETERMINATION CAN BE MADE FOR THE NEED TO IMPLEMENT MAINTENANCE EFFORTS OR THE CONTINGENCY PLAN. PERFORMATIVE STANDARDS ARE IDENTIFIED IN THE TABLE BELOW.	3.1. AT LEAST 4 NATIVE TREE SPECIES AND 4 NATIVE SHRUB SPECIES SHALL BE ESTABLISHED IN THE MITIGATION AREA.	MONITORING METHODS	MONITORING INTERVAL	APPLICATION BY: CITY OF BELLEVUE DATE: JULY 23 2007
			1. 100% PERCENT SURVIVAL OF ALL INSTALLED NATIVE TREES AND SHRUBS ONE-YEAR POST INSTALLATION. 2. ESTABLISHMENT OF TRANSECTS IN MITIGATION MONITORING PLANTING AREAS FOR FIVE YEARS OF COVERAGE DATA.	1. TOTAL PLANT COUNT OF INSTALLED TREES AND SHRUBS SHALL DETERMINE ONE YEAR WARRANTY AND PERFORMANCE STANDARD OF SURVIVAL. 2. INSTALLED TREE AND SHRUB COVERAGE SHALL BE ESTIMATED USING THE LINE-INTERCEPT METHOD ALONG TRANSECTS ESTABLISHED IN THE MITIGATION AREAS (AS NOTED IN PERFORMANCE STANDARDS) 3. PHOTOGRAPHIC DOCUMENTATION SHALL OCCUR WITH EACH MONITORING FROM ESTABLISHED PHOTOPONTS TO PROVIDE ADDITIONAL DOCUMENTATION OF PLANT SUCCESS.	YEARS 1, 2, 3, 4 AND 5 (STREAM BUFFER)	MITIGATION REPORT SHEET
			3. FOR STREAM BUFFER MONITORING, TREE AND SHRUB COVERAGE: 50% BY YEAR 5, FOLIAGE AND SHRUB SURVIVAL: 50% BY YEAR 1, 60% BY YEAR 5.		YEARS 1, 2, 3, 4 AND 5 (STREAM BUFFER)	
			4. AT LEAST 4 NATIVE TREE SPECIES AND 4 NATIVE SHRUB SPECIES SHALL BE ESTABLISHED IN THE MITIGATION AREA.		YEARS 1, 2, 3, 4 AND 5 (STREAM BUFFER)	
			5. UP TO 20% OF ANY STREAM CANOPY COULD BE COMPOSED OF DESIRABLE NATIVE VOLUNTEERS WHEN MEASURING COVERS. NO TOP COVERS OF NON-NATIVE OR OTHER INVASIVES, E.G., HIMALAYAN BLACKBERRY, MULBERRY, SPURGE, ETC. IS PERMISSIBLE. EXCEPT FOR CERTAIN SELECTED PLANTINGS, COOTS BROWN, ENGLISH IVY, WILDFLOWER, WILDFLOWERS, ETC. IS PERMISSIBLE IN MITIGATION AREAS. SHrubS AND BUSHES ARE ENCOURAGED TO MAINTAIN MITIGATION SITES WITHIN THESE STANDARDS THROUGHOUT THE MONITORING PERIOD. TO AVOID CORRECTIVE MEASURES.			
PROJECT NAME: LOWER COAL CREEK SEDIMENTATION POND	REFERENCE NO.: N/A COUNTY OF: KING WATER BODY: COAL CREEK NAVD 88	SITE LOCATION ADDRESS: ALONG COAL CREEK, APPROX FROM 550 TO 880 FEET UPSTREAM OF L-405 CROSSING, BELLEVUE, WA				
PURPOSE: SEDIMENT REMOVAL						
DATUM:						





PLANT SCHEDULE

BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QUANTITY																														
				A-1	A-2	A-3	A-4	A-5	A-6	A-7	A-8	B-1	B-2	B-3	B-4	C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12	C-13	C-14	D-1	D-2	D-3	D-4	D-5
TREES																																		
THUJA BURATA	WESTERN RED CEDAR	2 GAL.	10' O.C.									10	4	8	6	10	3			3	12	4	5	5	4	23	6	5						
PICEA STICHENSIS	SITKA SPRUCE	2 GAL.	10' O.C.													5	10	3		21	9		12	6								108		
SESSELIA WENZELII	DOUGLAS FIR	2 GAL.	10' O.C.									10	5	20	8	11	30	20	7	10	9	6	6	10	11	6	7	6			66			
TSUCA HETEROPHYLLA	WESTERN HEMLOCK	2 GAL.	10' O.C.										10	5	5	10	5	2		3	5	3	6	7	4					140				
PEPULUS BALSIMIFERA	BLACK COTTONWOOD	2 GAL.	10' O.C.										3	6	3	5	8	4	2	4		3		3	5					52				
TRAMMIS LAMECIA	GREGORIAN ASL	2 GAL.	10' O.C.													6	5	4	5	7	4	11	4		6						46			
																																		52

SHRUBS	ACER CIRCINATUM	VINE MAPLE	2 GAL.	5' O.C.	QUANTITY																															
					A-1	A-2	A-3	A-4	A-5	A-6	A-7	A-8	B-1	B-2	B-3	B-4	C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12	C-13	C-14	D-1	D-2	D-3	D-4	D-5	TOTAL
CORYNUS CORNUTA	WESTERN HAZELNUT	2 GAL.	5' O.C.	2		4	1										12	16	15		6	12	3	6	9	7	6	4				65				
CORNUS SERICEA	RED OSIER DOGWOOD	2 GAL.	5' O.C.																		31	17		26							106					
LONICERA INVOLUCRATA	BLACK THIMBERRY	2 GAL.	5' O.C.																													74				
FHTSODCARPUS CAPITATUS	PACIFIC NINEBARK	2 GAL.	5' O.C.																		15	32	21	6	8	35	11				227					
RUBUS SPECIABILIS	SLALMONBERRY	2 GAL.	5' O.C.																		25	37		8	9							79				
SYMPHORCARPOS ALBUS	SNOWBERRY	2 GAL.	5' O.C.																		15	16		5	8							56				
HOLODISCUS DISCOLOR	OCEAN SPRAY	2 GAL.	5' O.C.																		25	4	5	12	17	7	14	11			149					
DEALERIA CERASIFORMIS	INDIAN PLUM	2 GAL.	5' O.C.																		15	5	10	9	6	6	17	14	8	7	103					
ROSA NUTKANA	NOOTKA ROSE	2 GAL.	5' O.C.																		9	3	9	6	4	9	6				86					
MAHONIA AQUIFOLIUM	TALL OREGON GRAPE	2 GAL.	5' O.C.																		30	25	10	27	17	5	12	17	11	14	111					
SAUL LUCIDA	PACIFIC MULLOW	LIVE STAKES	2.5 O.C.																		12	18	9	5	7	6	12	17	7	8	7	174				
SALIX SCLERIFERIA	SCULPTURE MULLOW	LIVE STAKES	2.5 O.C.																														24			
SALIX STICHENSIS	SITKA WILLOW	LIVE STAKES	2.5 O.C.																														30			
CORNUS SERICEA	RED OSIER DOGWOOD	LIVE STAKES	2.5 O.C.																														30			
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PLANTING NOTES:

LANDSCAPE ARCHITECT / WETLAND BIOLOGIST IS REQUIRED TO PROVIDE CONSTRUCTION OBSERVATION SERVICES FOR ALL LANDSCAPING ACTIVITIES INCLUDING PLANT LOCATIONS, FIELD MAINTENANCE, AND PLANTING ACTIVITIES.

CONTRACTOR SHALL USE LANDSCAPE ARCHITECT / WETLAND BIOLOGIST / WINDROW OF SEVEN (7) DAYS NOTICE PRIOR TO INTENTION TO PROCEED WITH CONSTRUCTION.

CONSTRUCTION WILL BEGIN ONLY AFTER AN ON-SITE PRE-CONSTRUCTION MEETING BETWEEN ALL PLANT MATERIAL PLANTING TECHNIQUES AND SOWING ACTIVITIES SHALL CONFORM TO TYPICAL LANDSCAPE INDUSTRY STANDARDS.

ALL MATERIALS TO BE USED WILL BE NATIVE TO THE PACIFIC NORTHWEST, AND GROWN IN THE PUGET SOUND LOWLAND.

ALL NURSERY GROWN PLANTS SHALL BE CONTAINERIZED OR BALED AND BUR LAPPED OR BARE ROOT STOCK PROVIDED ONLY SOUND, HEALTHY, VIGOROUS PLANTS FREE OF DEFECTS, DISEASES AND ALL FORMS OF INFESTATION. LANDSCAPE ARCHITECT / WETLAND BIOLOGIST CAN SUPPLY A LIST OF NURSERIES KNOWN TO CARRY NATIVE PLANTS.

THE LANDSCAPE ARCHITECT / WETLAND BIOLOGIST WILL INSPECT PLANT MATERIALS TO VERIFY CONFORMANCE TO THE PLANT SPECIFICATIONS AND TO PLANT CHARACTERISTICS. THE LANDSCAPE ARCHITECT / WETLAND BIOLOGIST RESERVES THE RIGHT TO REJECT, REPLACE OR SUBSTITUTION OF PLANTS THAT ARE DEFECTED OR UNFAVORABLE.

DIG, PACK, TRANSPORT AND HANDLE ALL PLANTS WITH CARE TO ENSURE PROTECTION FROM INJURY. STORE PLANTS IN THE MANNER NECESSARY TO ACCOMMODATE THEIR HORTICULTURAL REQUIREMENTS. NEED-LIN PLANTS IF NECESSARY TO KEEP THEM FROM DRYING OUT.

EXCAVATE OVAL PLANT PITS A MINIMUM OF 2 TIMES THE ROOT BALL SIZE WITH VERTICAL SIDES AND INSTALL PLANTS AS SHOWN ON THE PLANTING DETAILS AND BASEBALL WITH PLANTING SOIL.

AMEND PLANTING AREAS AROUND POND MATH 4' OF COMPOST INCORPORATED TO 12' DEPTH.

PLANTING SOIL FOR PIT PLANTING SHALL COMprise OF 50% CEDAR GROVE 2-WAY TOPSOIL AND 50% EXISTING NATIVE SOIL.

AFTER PLANTS ARE SET, CONTRACTOR SHALL HURDLE PLANTING SOIL MULCH AROUND ROOT BALLS AND REFLILL ALL VIDS. REPEAT PROCESS UNTIL ALL WIDS AROUND ROOT BALLS ARE FILLED.

FOLLOWING INSTALLATION OF PLANTING MATERIALS OUTSIDE THE GRANDE SEDIMENT POND, ALL BASES SHALL RECEIVE THREE (3) INCHES OF BARK MULCH. ALL PLANT MATERIAL HYDROSEED AS A MULCH.

STAKE ALL CUTTENWOOD AND ASH TREES.

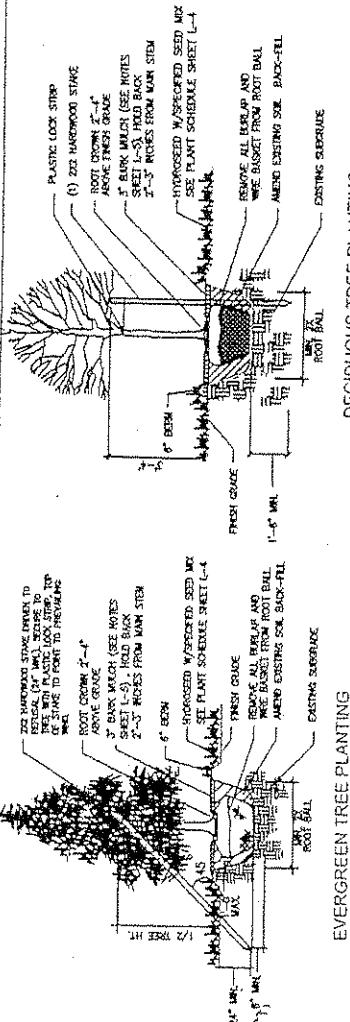
Maintenance Notes:

CONTRACTOR WILL BE RESPONSIBLE FOR WATERING NEWLY INSTALLED PLANT MATERIALS.

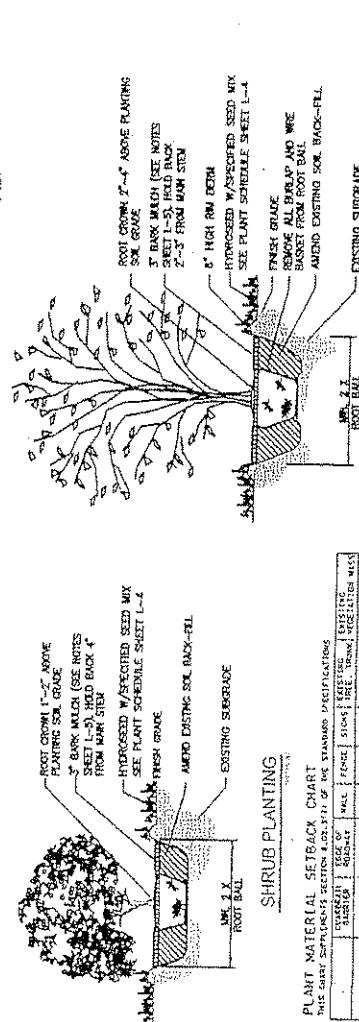
ALL PLANTS WILL RECEIVE AT LEAST ONE INCH OF WATER FOR NEEDS DURING THE FIRST TWO GROWING SEASONS (JUNE 15 TO OCTOBER 15) FOLLOWING MIGRATION INSTALLATION PERIODS.

THE CONTRACTOR IS RESPONSIBLE FOR ALL PLANT MATERIALS UNTIL THE FORMAL LANDSCAPE / WETLAND BIOLOGIST / KING AND HEALTHY FOR A PERIOD OF ONE YEAR AFTER COMPLETION AND ACCEPTANCE OF PLANTING. THE CONTRACTOR SHALL REPLACE ALL DEAD OR UNHEALTHY PLANTS, PER PLANS AND SPECIFICATIONS. THOSE IDENTIFIED AS RECORDED AND RELATED BY THE LANDSCAPE ARCHITECT / WETLAND BIOLOGIST DURING THE ONE YEAR WASHAWAY INSPECTION.

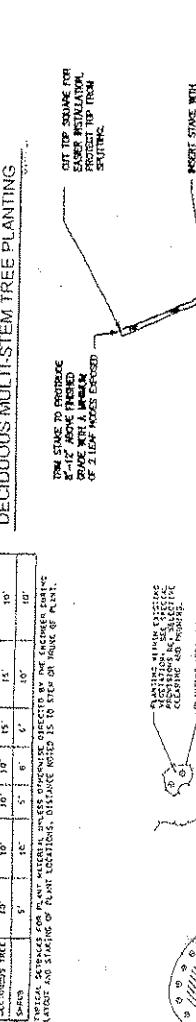
ALL MITIGATION PLANTING AREAS WILL BE MAINTAINED TWICE DURING THE FIRST YEAR BY NEED REBALD BY HAND (IN EARLY APRIL/MAY AND SEPTEMBER/OCTOBER). ALL HIMALAYAN BLACKBERRY, EVERGREEN BLACKBERRY AND SCOTT'S BROOM WILL BE REMOVED WITH ROOT CROWNS GRUBBED OUT. OTHER WEEDS TO BE REMOVED INCLUDE REED CAVIAR GRASS, CLAUNING NIGHTSHADE, PURPLE LOOSESTRIFE, MORNING GLORY, VETCH, TART RASPBERRY, AND THISTLE.



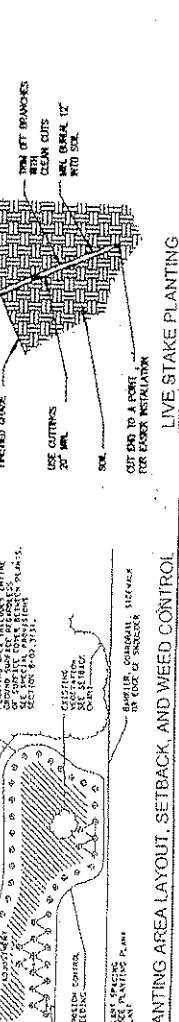
EVERGREEN TREE PLANTING



DECIDUOUS TREE PLANTING



SHRUB PLANTING



DECIDUOUS MULTI-STEM TREE PLANTING

PLANTING NOTES AND DETAILS

PROJECT NAME: LOWER COAL CREEK SEDIMENTATION POND	REFERENCE NO.: N/A	SITE LOCATION: KING	ALONG COAL CREEK, APPROX FROM 550 TO
PURPOSE: SEDIMENT REMOVAL	WATER BODY: COAL CREEK	ADDRESS: 880 FEET UPSTREAM OF I-405 CROSSING, BELLEVUE, WA	I-405 CROSSING, BELLEVUE, WA
DATUM: NAVD 88			

APPLICATION BY: CITY OF BELLEVUE	DATE: JUL 23 2007	SHEET 14 OF 14
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