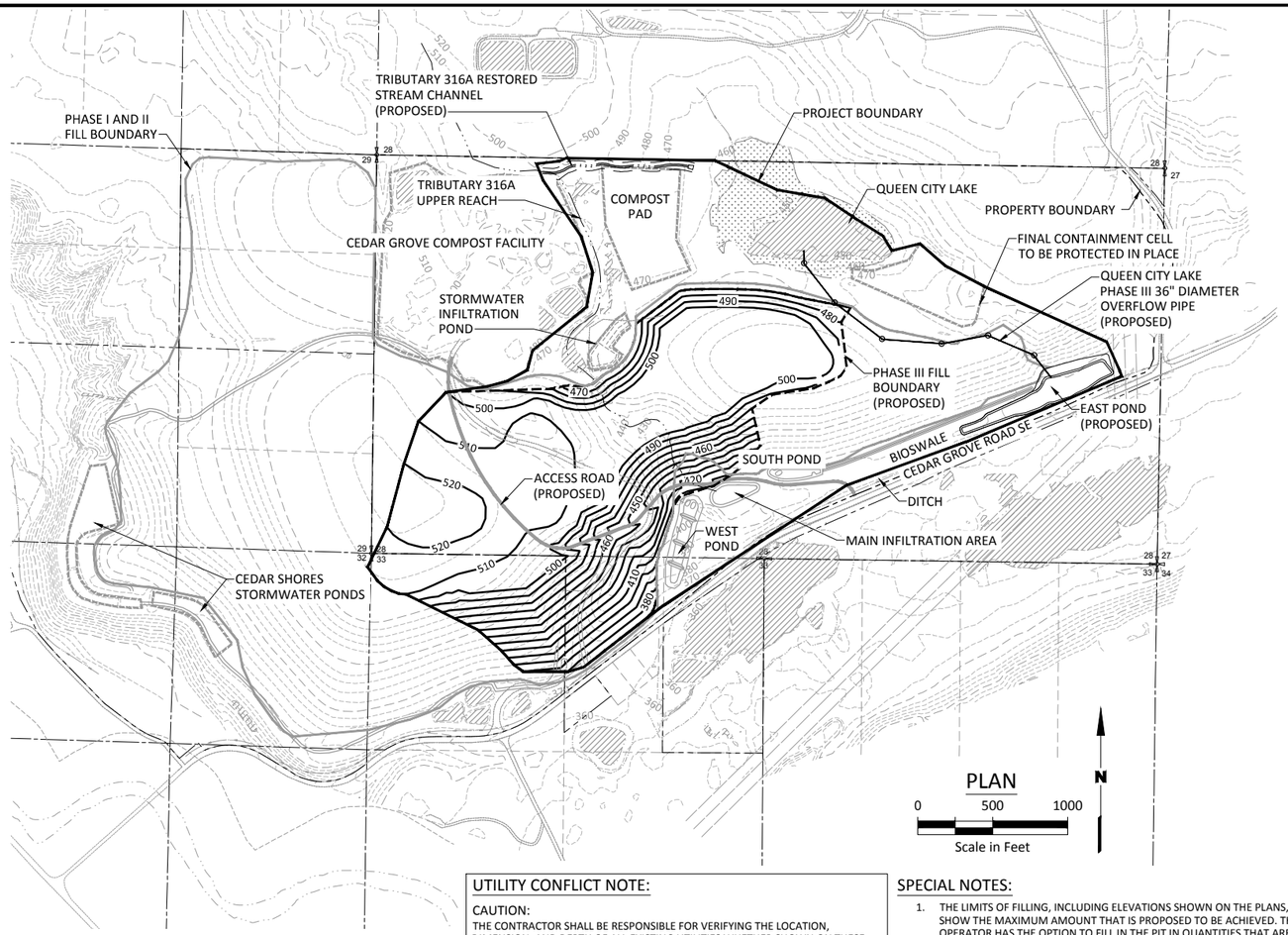


LEGAL DESCRIPTION:

THE SOUTH HALF OF SECTION 28, TOWNSHIP 23 NORTH, RANGE 6 EAST, WILLAMETTE MERIDIAN, SITUATE IN THE COUNTY OF KING, THE STATE OF WASHINGTON.

THE SUBJECT PROPERTY INCLUDES THE FOLLOWING KING COUNTY TAX PARCEL NUMBERS: TAX LOT NO. 282306-9009 (PORTION)

LEGEND:

	EXISTING	PROPOSED
STORM LINE		
PROPERTY LINE		
BUFFER (WETLAND, ETC.)		
SILT FENCE		
CHAIN LINK FENCE		
STREAM / FLOWLINE		
CONTOUR	82	82
SPOT ELEVATION		10.00
CONSTRUCTION LIMITS		
APPROX. SUPERFUND SITE LOCATION		
WETLAND AREA		
WETLAND BUFFER		

UTILITY CONFLICT NOTE:

CAUTION:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

SHEET INDEX:

APPROXIMATE GRADING QUANTITIES

CUT = 13,000 CY
FILL = 2,500,000 CY
AREA OF DISTURBANCE = 100 AC

SITE ADDRESS

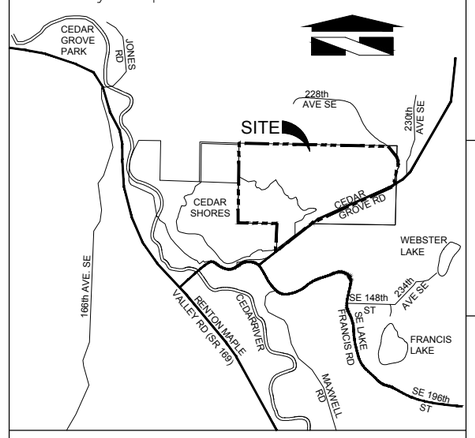
17825 CEDAR GROVE ROAD S.E.
MAPLE VALLEY, WA 98038

SPECIAL NOTES:

1. THE LIMITS OF FILLING, INCLUDING ELEVATIONS SHOWN ON THE PLANS, SHOW THE MAXIMUM AMOUNT THAT IS PROPOSED TO BE ACHIEVED. THE OPERATOR HAS THE OPTION TO FILL IN THE PIT IN QUANTITIES THAT ARE LESS THAN WHAT IS SHOWN, AS LONG AS THE PHASING OF FILL FOLLOWS THE PLANS.
2. BARGHAUSEN CONSULTING ENGINEERS IS NOT RESPONSIBLE FOR THE STABILITY, QUALITY CONTROL OR THE CONSTRUCTION PROCESS IN WHICH FILL SOILS ARE PLACED. A GEOTECHNICAL ENGINEER SHALL BE CONSULTED DURING THE FILLING PROCESS IF DETERMINED NECESSARY TO GIVE RECOMMENDATIONS ON THE CONSTRUCTION PROCESS FOR THE SOILS BEING PLACED. ALL PROPOSED TOPOGRAPHIC INFORMATION SHOWN ON THE PLANS IS CONCEPTUAL AND MAY VARY DEPENDING ON QUALITY OF SOILS BEING PLACED.
3. THE UNDERLYING EXISTING TOPOGRAPHY SHOWN WAS PRODUCED BY WALKER AND ASSOCIATES BASE ON AN AERIAL PHOTO DATED 5/16/00.
4. THE CEDAR SHORES REFILL, LOCATED WEST OF THE SITE, IS SHOWN IN ITS FINAL REFILL CONFIGURATION. THE CONTOURS AND DRAINAGE FACILITIES ARE PER A SEPARATE PERMIT.
5. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR OBTAINING PERMITS FROM THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES FOR REMOVING AND REPLACING ALL SURVEY MONUMENTATION THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITY, PURSUANT TO WAC 332-120. APPLICATIONS MUST BE COMPLETED BY A REGISTERED LAND SURVEYOR. APPLICATIONS FOR PERMITS TO REMOVE MONUMENTS MAY BE OBTAINED FROM THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES, OR BY CONTACTING THEIR OFFICE BY TELEPHONE AT (360) 902-1000.
6. WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES PUBLIC LAND SURVEY OFFICE 801 88TH AVE S.E., TUMWATER, WA, 98501-7019.
7. UPON COMPLETION OF CONSTRUCTION, ALL MONUMENTS DISPLACED, REMOVED, OR DESTROYED SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR, AT THE COST AND AT THE DIRECTION OF THE CONTRACTOR, PURSUANT TO THESE REGULATIONS. THE APPROPRIATE FORMS FOR REPLACEMENT OF SAID MONUMENTATION SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR.

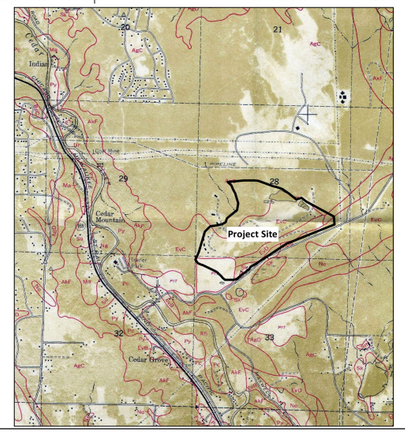
Vicinity Map

Scale 1"=2 mi



Soils Map

Scale 1"=0.5mi



Notice Required

Contractors shall notify operators who maintain underground utility lines in the area of proposed excavation or blasting at least two business days, but not more than ten working days prior to commencement of excavation or demolition in accordance with RCW Title 19. Names and telephone numbers of the operators of underground utility lines in this project appear below. These numbers shall also be used to serve in an emergency conditions as required.

	Phone
Sanitary Sewer	
Water District	
PUGET SOUND ENERGY — Gas Company	
PUGET SOUND ENERGY — Power Company	
Call Before You Dig — DIAL-A-DIG	1-800-424-5555

Notes

1. The Developer is required to notify the Land Use Services Division, Land Use Inspection Section (206) 296-6642, three days prior to the beginning of construction for a preconstruction conference and specifically request inspection before beginning:
   A. Installing siltation and erosion control measures
   B. Clearing and grubbing
   C. Earthwork
   D. Installation of any underground utility
   E. Before placing subbase, base or paving surfaces
   F. Installation of any forms or placing any concrete
2. A permit must be obtained from the office of the Resident Engineer, Washington State Department of Transportation, before any construction is started on any existing state route.
3. A Hydraulic Project Approval (HPA) Permit must be obtained from the Washington State Department of Fisheries prior to any work when required.

Bonding Information

Restoration Bond Amount $ _____

Performance Bond Amount $ _____

Site Plan Approval

Approval of these plans is for construction of road and drainage improvements, site drainage & grading and temporary erosion control in unincorporated King County only. These plans do not authorize any other utility approval or improvements proposed in any State right of way.

Site plan approval is void if the commercial building permit has not been obtained or renewed within two years of approval.

Subdivision plan approval is void if the final plat is not recorded prior to the preliminary plat approval expiration.

PRO RATA SHARE ASSESSMENT ANALYSIS
(County Use Only)

Section	Township	Range	Tax Parcel	Number
2 8	2 3	0 6	2 8 2 3 0 6	9 0 0 9

Site Location is within the _____ drainage shed(s)
Pro Rata Share Assessment(s) are: ☐ Required ☐ Not Required
from the site due to development for increased storm water runoff.
Peak Runoff Assessment Rate($) per c.f.s. increases.(10 year, 2 hour storm)
Peak Volume Assessment Rate($) per Ac. Ft. increases.(2 year, 2 hour storm)

AGREEMENTS, PLAN REFERENCES, PERMITS ETC.
(To be completed by Consultant)

Preliminary Plat Approval/Permit Issued Date: _____
Expiration Date: _____
Other Related Permit Numbers Received:
Right-of-Way Use Permit _____
Grading _____
Building/Structural _____
Other _____ _____
Board feet of tree removal on site: _____
Cubic yards of material hauled on/off the site: _____
Is this a highly sensitive area site? (Yes/No): _____
Note: If "yes", per SWDM Appendix D44 a Highly Sensitive Site Erosion Control Supervisor is required. See ESC plan.

Emergency
911
Police-Fire-Rescue

RECOMMENDED FOR APPROVAL
(To be completed by King County)
Date _____

_____ Review Engineer
_____ Senior Engineer
_____ Traffic & Planning Engineer
_____ Sensitive Areas
_____ Structural Review Engineer
_____ Other

King County
APPROVED FOR CONSTRUCTION
DEPARTMENT OF DEVELOPMENT & ENVIRONMENTAL SERVICES

Date _____ Molly A. Johnson, P.E. Development Engineer

PROJECT CONTACT INFORMATION
(To be completed by Consultant)

Applicant / Contract Owner / Lease: QUEEN CITY FARMS, INC. — Name — Phone
Address and Zip Code

Ownership: ☐ Owner ☒ Trustee: ☐ A Partnership ☐ An Individual
STEPHAN BANCHERO (206) 832-3001
Name Phone
9010 EAST MARGINAL WAY SOUTH, SEATTLE, WA 98108
Address and Zip Code

Certified Surveyor or Engineer: ☐ ☒: ☐ A Corporation ☐ A Partnership ☐ An Individual
KATIE SALTANOVITZ (425) 329-0268
Name Phone
130 2ND AVENUE SOUTH, EDMONDS, WA 98020
Address and Zip Code

LANDAU ASSOCIATES
130 2ND AVENUE S.
EDMONDS, WASHINGTON 98020
(253) 284-4878 Phone
ERIC WEBER Project Coordinator

DRAFTED BY:	ESZ
DESIGNED BY:	MDV
REVIEWED BY:	KWW
APPROVED BY:	KMS
DATE SURVEYED:	
SURVEYED BY:	
STATUS:	ISSUED FOR PERMIT REVIEW

QUEEN CITY FARMS
PHASE III REFILL
MAPLE VALLEY, WASHINGTON

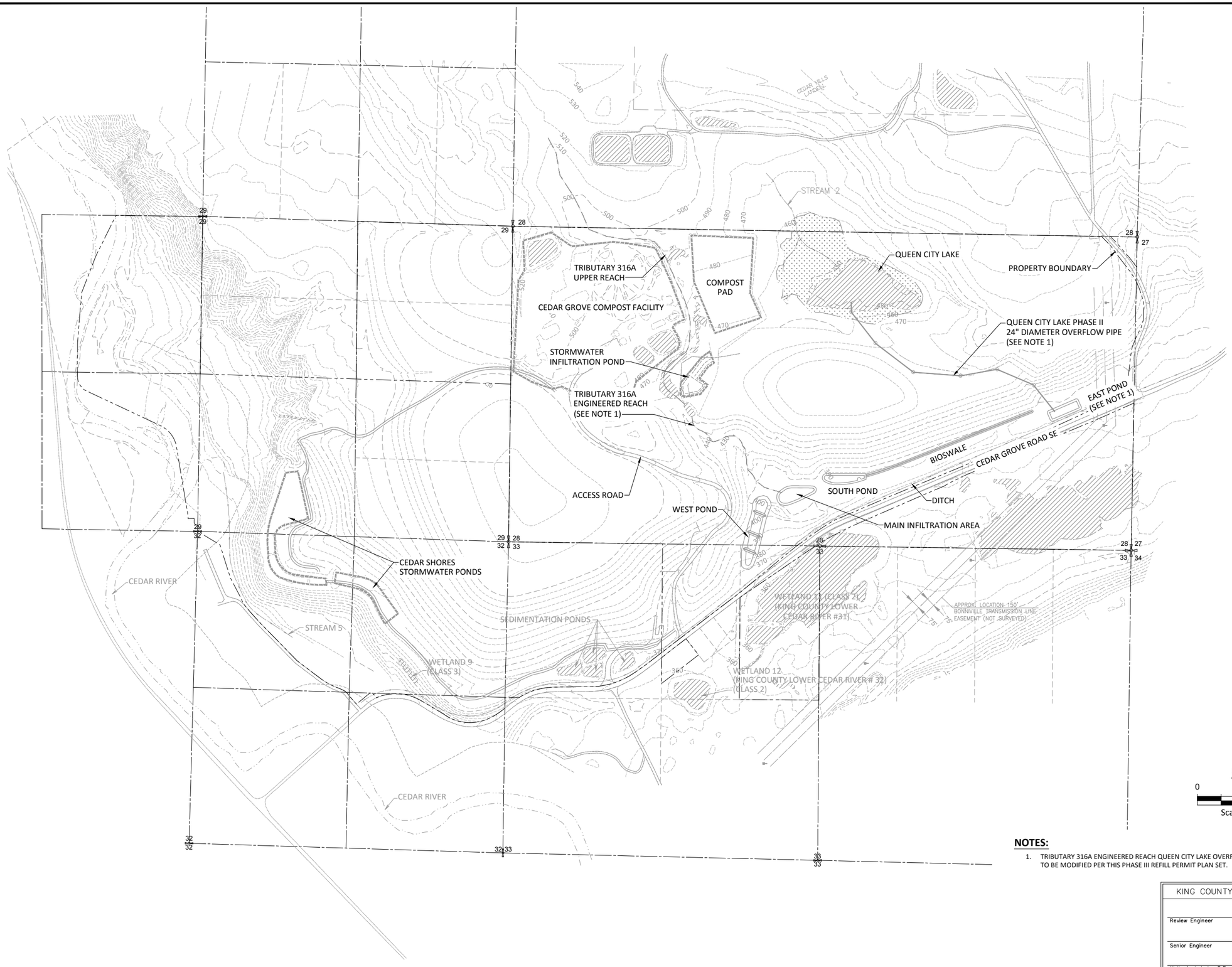
COVER SHEET

DDES FILE NUMBERS:
Activity Number:
Project Number:
Development No:

KATHERINE MARIE SALTANOVITZ — STATE OF WASHINGTON — 47594 — REGISTERED PROFESSIONAL ENGINEER

PROJECT NO. 992002.050
DATE 04/10/2018
Sheet 1 of 13

LANDAU ASSOCIATES, INC. | G:\PROJECTS\992002050\051\PHIII REFILL PLAN SET\P COVER.DWG | 4/6/2018



NOTES:

1. TRIBUTARY 316A ENGINEERED REACH QUEEN CITY LAKE OVERFLOW PIPE AND EAST POND ARE TO BE MODIFIED PER THIS PHASE III REFILL PERMIT PLAN SET.

KING COUNTY DDES APPROVAL

Review Engineer	Date
Senior Engineer	Date
Wally Archuketa, P.E. DEVELOPMENT ENGINEER	Date

LANDAU ASSOCIATES
130 2ND AVENUE S.
EDMONDS, WASHINGTON 98020
ERIC WEBER
Project Coordinator
(253) 284-4878 Phone

DRAFTED BY:	E. ZICK
DESIGNED BY:	M. VEILLEUX
REVIEWED BY:	K. WIKEN
APPROVED BY:	K. SALTANOVITZ
DATE SURVEYED:	
SURVEYED BY:	
STATUS:	ISSUED FOR PERMIT REVIEW

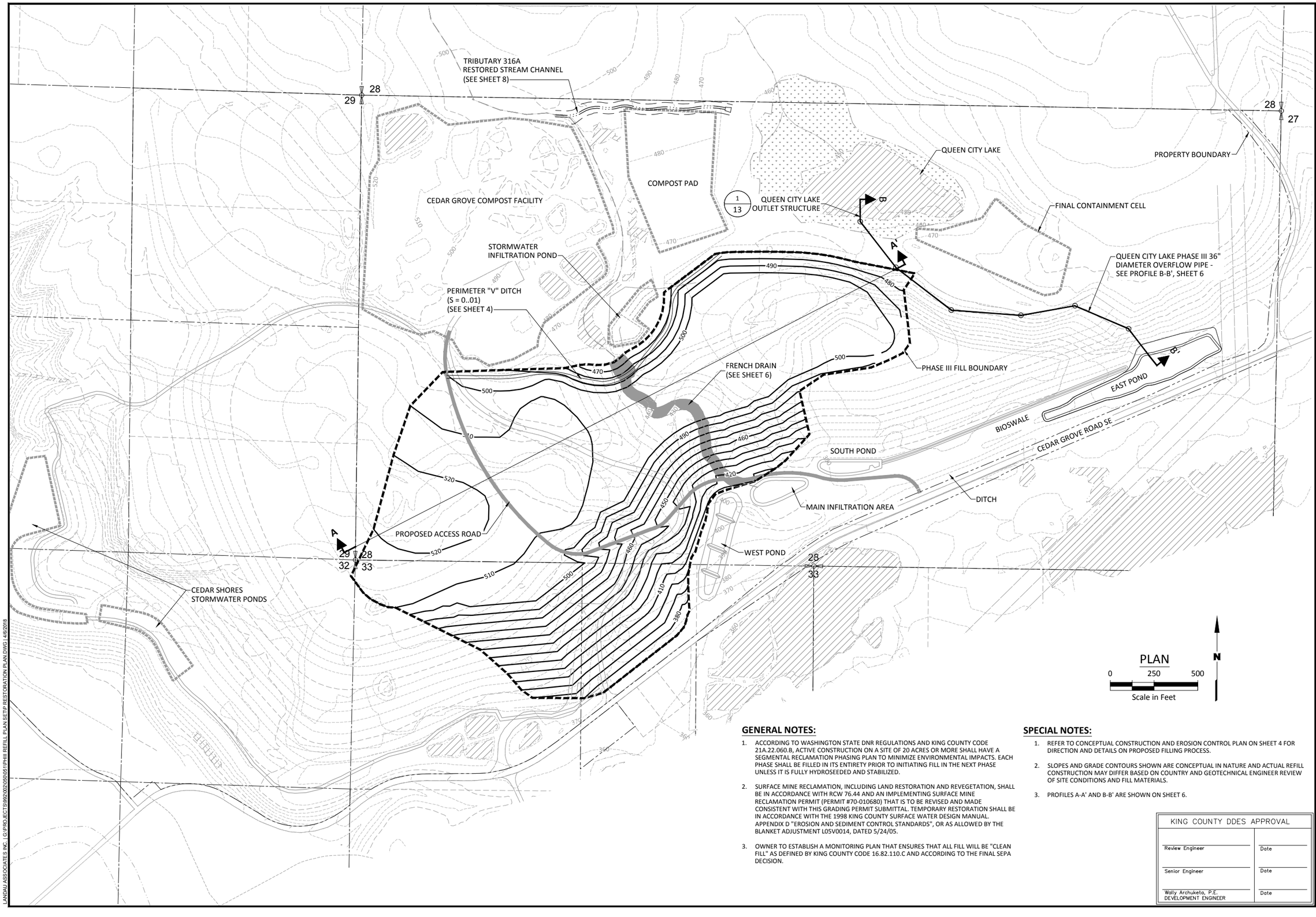
QUEEN CITY FARMS
PHASE III REFILL
MAPLE VALLEY, WASHINGTON

PHASE II PERMITTED CONDITIONS PLAN

DDES FILE NUMBERS:
Activity Number:
Project Number:
Development No:

KATHERINE MARIE SALTANOVITZ
STATE OF WASHINGTON
47594
REGISTERED PROFESSIONAL ENGINEER

PROJECT NO.
992002.050
DATE
04/10/2018



GENERAL NOTES:

1. ACCORDING TO WASHINGTON STATE DNR REGULATIONS AND KING COUNTY CODE 21A.22.060.B, ACTIVE CONSTRUCTION ON A SITE OF 20 ACRES OR MORE SHALL HAVE A SEGMENTAL RECLAMATION PHASING PLAN TO MINIMIZE ENVIRONMENTAL IMPACTS. EACH PHASE SHALL BE FILLED IN ITS ENTIRETY PRIOR TO INITIATING FILL IN THE NEXT PHASE UNLESS IT IS FULLY HYDROSEEDED AND STABILIZED.
2. SURFACE MINE RECLAMATION, INCLUDING LAND RESTORATION AND REVEGETATION, SHALL BE IN ACCORDANCE WITH RCW 76.44 AND AN IMPLEMENTING SURFACE MINE RECLAMATION PERMIT (PERMIT #70-010680) THAT IS TO BE REVISED AND MADE CONSISTENT WITH THIS GRADING PERMIT SUBMITTAL. TEMPORARY RESTORATION SHALL BE IN ACCORDANCE WITH THE 1998 KING COUNTY SURFACE WATER DESIGN MANUAL. APPENDIX D "EROSION AND SEDIMENT CONTROL STANDARDS", OR AS ALLOWED BY THE BLANKET ADJUSTMENT L05V0014, DATED 5/24/05.
3. OWNER TO ESTABLISH A MONITORING PLAN THAT ENSURES THAT ALL FILL WILL BE "CLEAN FILL" AS DEFINED BY KING COUNTY CODE 16.82.110.C AND ACCORDING TO THE FINAL SEPA DECISION.

SPECIAL NOTES:

1. REFER TO CONCEPTUAL CONSTRUCTION AND EROSION CONTROL PLAN ON SHEET 4 FOR DIRECTION AND DETAILS ON PROPOSED FILLING PROCESS.
2. SLOPES AND GRADE CONTOURS SHOWN ARE CONCEPTUAL IN NATURE AND ACTUAL REFILL CONSTRUCTION MAY DIFFER BASED ON COUNTRY AND GEOTECHNICAL ENGINEER REVIEW OF SITE CONDITIONS AND FILL MATERIALS.
3. PROFILES A-A' AND B-B' ARE SHOWN ON SHEET 6.

KING COUNTY DDES APPROVAL

Review Engineer	Date
Senior Engineer	Date
Wally Archuketa, P.E. DEVELOPMENT ENGINEER	Date

LANDAU ASSOCIATES
130 2ND AVENUE S.
EDMONDS, WASHINGTON 98020
(253) 284-4878 Phone
ERIC WEBER
Project Coordinator

DRAFTED BY:	E. ZICK
DESIGNED BY:	M. VEILLEUX
REVIEWED BY:	K. WIKEN
APPROVED BY:	K. SALTANOVITZ
DATE SURVEYED:	
SURVEYED BY:	
STATUS:	ISSUED FOR PERMIT REVIEW

QUEEN CITY FARMS
PHASE III REFILL
MAPLE VALLEY, WASHINGTON

REFILL AND ENVIRONMENTAL RESTORATION PLAN

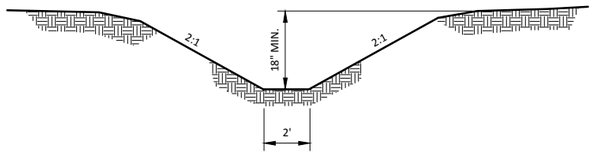
DDES FILE NUMBERS:
Activity Number:
Project Number:
Development No:

KATHERINE MARIE SALTANOVITZ
STATE OF WASHINGTON
47594
REGISTERED PROFESSIONAL ENGINEER

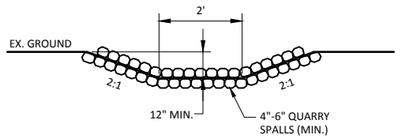
PROJECT NO. 992002.050
DATE 04/10/2018
Sheet 3 of 13

STRATEGY DETAIL NOTES:

1. A TEMPORARY SEDIMENT POND SHALL BE PROVIDED TO ACCOMMODATE UP TO AN APPROXIMATELY 8-ACRE PORTION OF THE PHASE AS SHOWN ON THE TYPICAL CONCEPTUAL STRATEGY DETAIL BELOW.
2. EACH 8-ACRE PORTION OF FILL SHALL BE CONSTRUCTED TO DIRECT RUNOFF TO PERIMETER DITCHES THAT, IN TURN, ROUTE RUNOFF TO THE SEDIMENT POND FACILITIES.
3. EROSION RILLS MAY FORM NATURALLY IN EACH 8-ACRE SUBBASIN. IF EROSION SOILS DELIVERED TO THE SEDIMENT POND EXCEED THE POND'S CAPACITY, THEN THE POND SHALL BE CLEANED OUT OR REPLACED AND THE EROSION RILLS STABILIZED BY ADDING GRAVEL WITHIN THE RILLS.
4. AS FILL PROCEEDS TO HIGHER FILL LAYERS, THE SEDIMENT PONDS MAY NEED TO BE FILLED OVER AND RELOCATED TO ACCOMMODATE THE CHANGING GRADES.
5. WHERE TEMPORARY SEDIMENT POND DISCHARGE DITCHES HAVE PROFILES EXCEEDING 10%, THE DITCHES SHALL BE ROCK-LINED. ALL POND DISCHARGE DITCHES IN EACH PHASE SHALL DISCHARGE INTO A PERIMETER COLLECTION DITCH WITH ROCK CHECK DAMS THAT, IN TURN, SHALL DISCHARGE INTO THE STORMWATER DETENTION AND WATER QUALITY POND FACILITIES. AS THE SEDIMENT PONDS ARE RELOCATED, THE SEDIMENT POND DISCHARGE DITCHES WILL ALSO NEED TO BE EXTENDED, WHERE NECESSARY, TO ACCOMMODATE THE SLOPES.



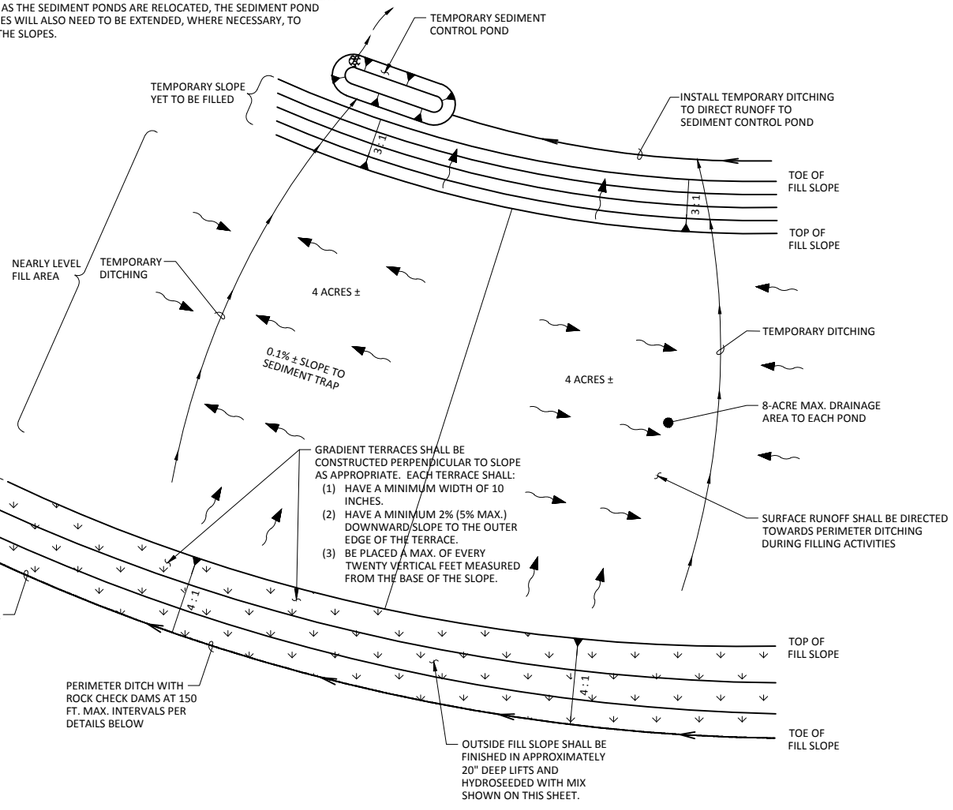
PERIMETER "V" DITCH
NOT TO SCALE



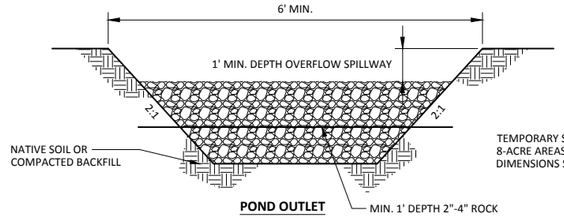
ROCK LINED DITCH (ON SLOPES IN EXCESS OF 10%)
NOT TO SCALE

SILT FENCE MAINTENANCE STANDARDS:

1. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT.
4. SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6 INCHES HIGH.
5. IF THE FILTER FABRIC (GEOTEXTILE) HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.



CONCEPTUAL 8 ACRE EXAMPLE TEMPORARY GRADING BASIN EROSION CONTROL AND HYDROSEEDING STRATEGY DETAIL
NOT TO SCALE



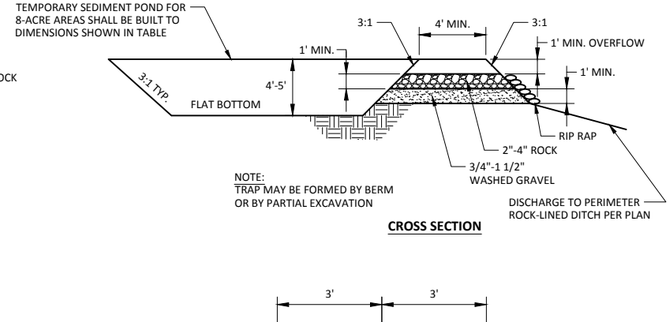
POND OUTLET

MAINTENANCE STANDARDS:

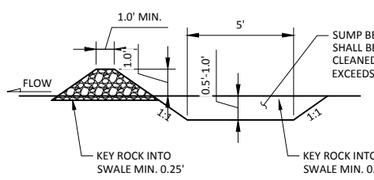
1. SEDIMENT SHALL BE REMOVED FROM THE POND WHEN IT REACHES 2 FEET IN DEPTH.
2. ANY DAMAGE TO THE POND EMBANKMENTS OR SLOPES SHALL BE REPAIRED.

TEMPORARY SEDIMENT POND DETAIL
NOT TO SCALE

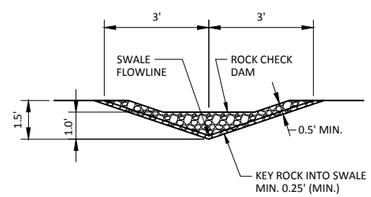
DEPTH	BOTTOM (LxW)	TOP (LxW)	VOLUME
4.0 FT.	120' x 6'	150' x 30'	11,000 CU. FT.



CROSS SECTION



ROCK DAM CROSS SECTION

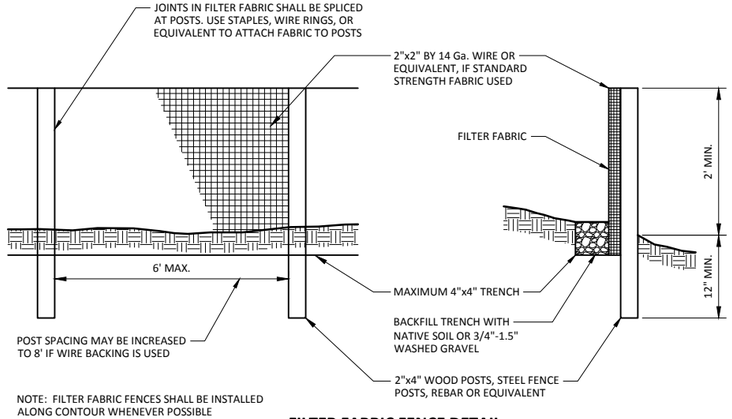


SWALE CROSS-SECTION AT ROCK CHECK DAM

NOTE: ROCK SHALL BE 4" MINUS QUARRY ROCK

SWALE SLOPE	CHECK DAM SPACING
0% - 5%	150'
5% - 10%	100'
> 10%	50'

ROCK CHECK DAM DETAILS
NOT TO SCALE



NOTE: FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE

FILTER FABRIC FENCE DETAIL
NOT TO SCALE

SEED MIXTURE NOTES:

PERFORM ALL CULTURAL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPES (CONTOURED). THE SEEDBED SHOULD BE FIRM WITH A FAIRLY FINE SURFACE AFTER ROUGHENING.

FERTILIZATION - AS PER SUPPLIER'S RECOMMENDATIONS. DEVELOPMENTS ADJACENT TO WATER BODIES MUST USE NON-PHOSPHORUUS FERTILIZER.

SEEDING - APPLY MIXTURE TO THE GROUND SURFACE AT A RATE OF 45 LBS/ACRE, WITH MULCH ADDED.

HYDROSEED MIX SPECIFICATIONS:

HYDROSEED APPLICATION MIX:	PROPORTIONS BY WEIGHT
RED ALDER	25%
RED FESCUE	40%
COLONIAL BENTGRASS	15%
WHITE CLOVER	20%

MULCH STANDARDS AND SPECIFICATIONS:

MULCH MATERIAL	QUALITY STANDARDS	APPLICATION RATES
STRAW	AIR-DRIED; FREE FROM UNDESIRABLE SEED AND COARSE MATERIAL	2"-3" THICK; 2-3 BALES PER 1000 SF OR 2-3 TONS PER ACRE
WOOD FIBER CELLULOSE	NO GROWTH INHIBITING FACTORS	APPROX. 25-30 LBS PER 1000 SF OR 1000-1500 LBS PER ACRE
COMPOST	NO VISIBLE WATER OR DUST DURING HANDLING. MUST BE PURCHASED FROM SUPPLIER WITH SOLID WASTE HANDLING PERMIT.	2" THICK MIN.; APPROX. 100 TONS PER ACRE (APPROX. 800 LBS PER YARD)
CHIPPED SITE VEGETATION	AVERAGE SIZE SHALL BE SEVERAL INCHES	2" MINIMUM THICKNESS

LANDAU ASSOCIATES
130 2ND AVENUE S.
EDMONDS, WASHINGTON 98020
(253) 284-4878 Phone
ERIC WEBER
Project Coordinator

DRAFTED BY:	E. ZICK
DESIGNED BY:	M. VEILLEUX
REVIEWED BY:	K. WIKEN
APPROVED BY:	K. SALTANOVITZ
DATE SURVEYED:	
SURVEYED BY:	
STATUS:	ISSUED FOR PERMIT REVIEW

QUEEN CITY FARMS PHASE III REFILL MAPLE VALLEY, WASHINGTON

CONCEPTUAL FILL CONSTRUCTION & EROSION CONTROL DETAILS

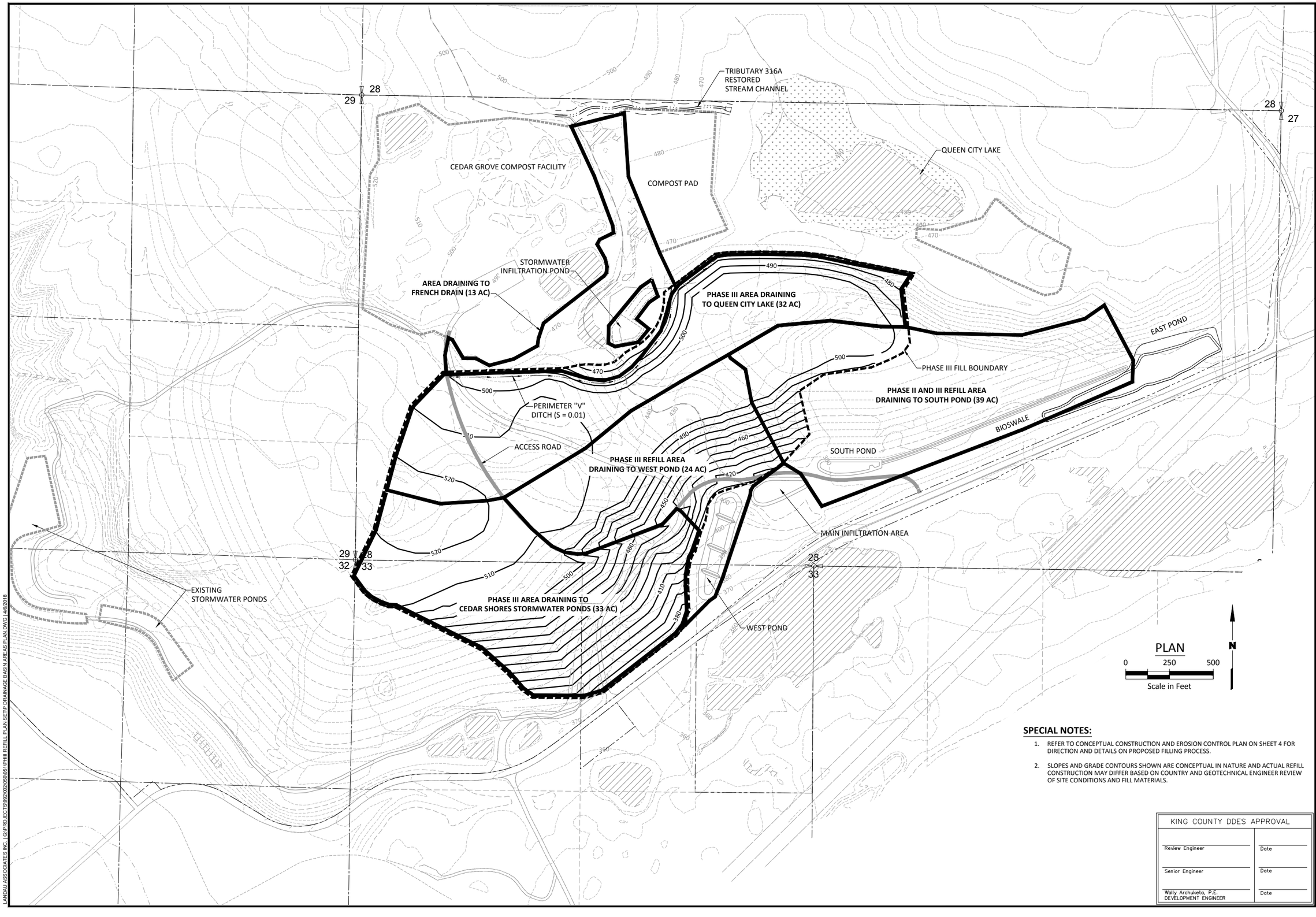
DDES FILE NUMBERS:
Activity Number:
Project Number:
Development No:

KATHERINE MARIE SALTANOVITZ — STATE OF WASHINGTON — 47594 — REGISTERED PROFESSIONAL ENGINEER

KING COUNTY DDES APPROVAL

Review Engineer	Date
Senior Engineer	Date
Wally Archuketa, P.E. DEVELOPMENT ENGINEER	Date

PROJECT NO. 992002.050
DATE 04/10/2018
Sheet 4 of 13



SPECIAL NOTES:

1. REFER TO CONCEPTUAL CONSTRUCTION AND EROSION CONTROL PLAN ON SHEET 4 FOR DIRECTION AND DETAILS ON PROPOSED FILLING PROCESS.
2. SLOPES AND GRADE CONTOURS SHOWN ARE CONCEPTUAL IN NATURE AND ACTUAL REFILL CONSTRUCTION MAY DIFFER BASED ON COUNTRY AND GEOTECHNICAL ENGINEER REVIEW OF SITE CONDITIONS AND FILL MATERIALS.

KING COUNTY DDES APPROVAL

Review Engineer	Date
Senior Engineer	Date
Wally Archuketa, P.E. DEVELOPMENT ENGINEER	Date

LANDAU ASSOCIATES
130 2ND AVENUE S.
EDMONDS, WASHINGTON 98020
(253) 284-4878 Phone
ERIC WEBER
Project Coordinator

DRAFTED BY:	E. ZICK
DESIGNED BY:	M. VEILLEUX
REVIEWED BY:	K. WIKEN
APPROVED BY:	K. SALTANOVITZ
DATE SURVEYED:	
SURVEYED BY:	
STATUS:	ISSUED FOR PERMIT REVIEW

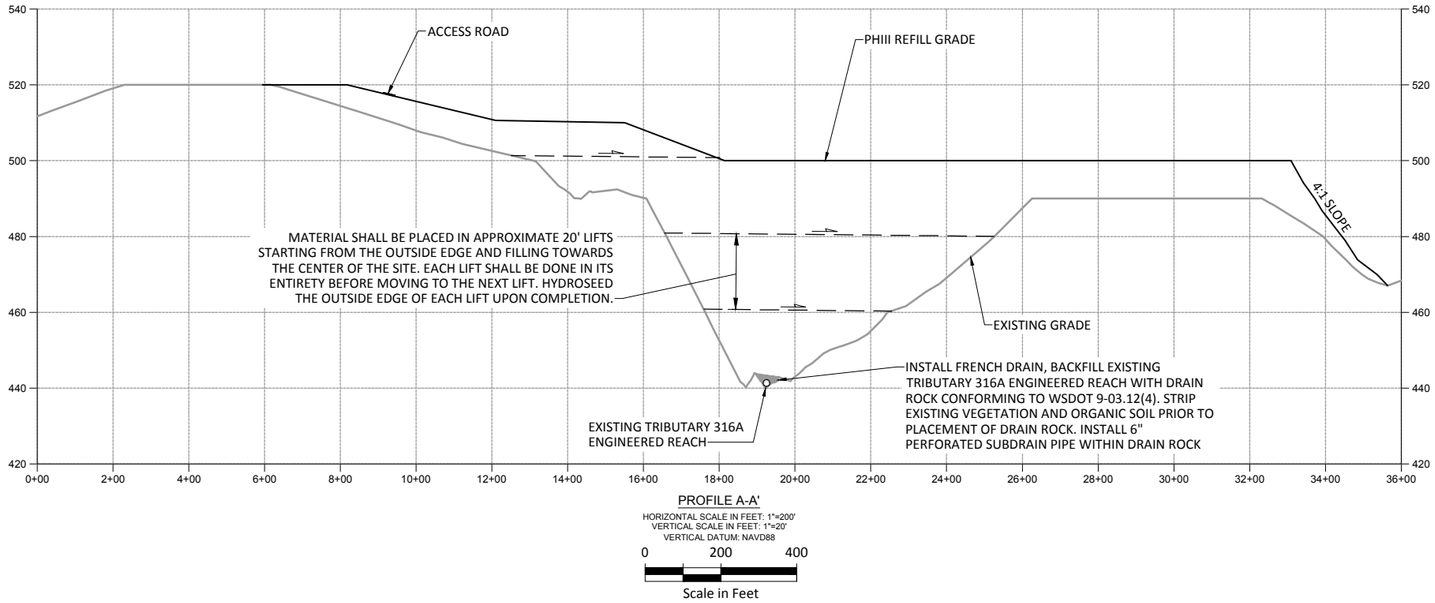
QUEEN CITY FARMS
PHASE III REFILL
MAPLE VALLEY, WASHINGTON

DRAINAGE BASIN AREAS PLAN

DDES FILE NUMBERS:
Activity Number:
Project Number:
Development No:

KATHERINE MARIE SALTANOVITZ
STATE OF WASHINGTON
47594
REGISTERED PROFESSIONAL ENGINEER

PROJECT NO. 992002.050
DATE 04/10/2018
Sheet 5 of 13

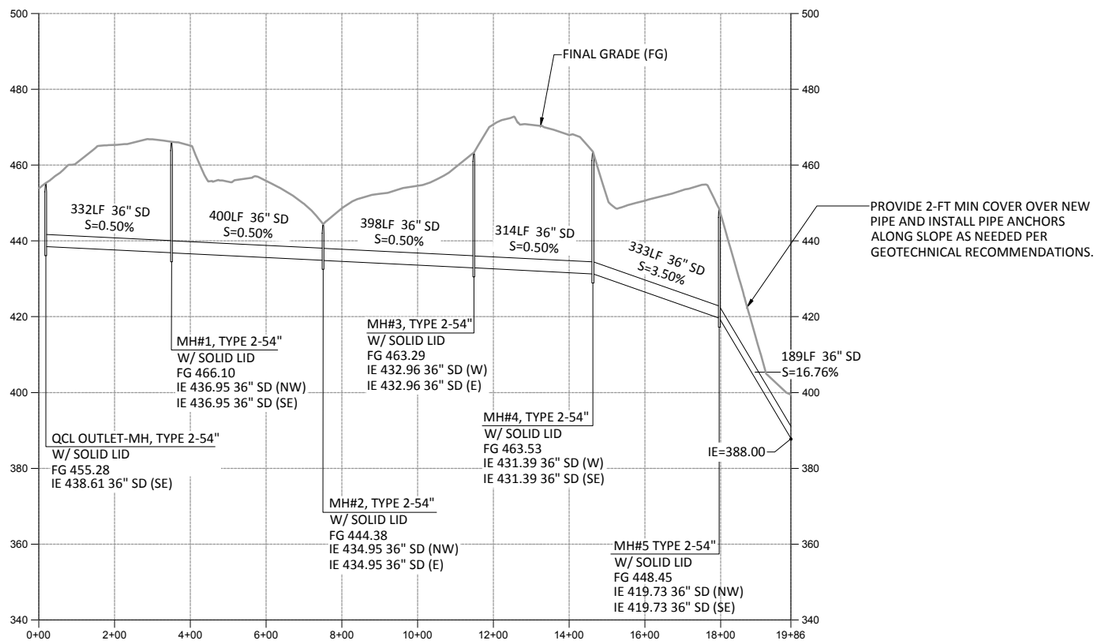


PROFILE A-A'

HORIZONTAL SCALE IN FEET: 1"=200'
VERTICAL SCALE IN FEET: 1"=20'
VERTICAL DATUM: NAVD88

0 200 400

Scale in Feet



PROFILE B-B'
QUEEN CITY OUTLET CONVEYANCE PIPE

HORIZONTAL SCALE IN FEET: 1"=200'
VERTICAL SCALE IN FEET: 1"=20'
VERTICAL DATUM: NAVD88

0 200 400

Scale in Feet

FILL CONSTRUCTION SEQUENCE:

1. ENSURE THAT A PRECONSTRUCTION MEETING HAS BEEN HELD PRIOR TO FILLING.
2. INSTALL THE TEMPORARY SEDIMENT CONTROL PONDS AS NEEDED PER RECOMMENDATIONS ON SHEET 4.
3. CONSTRUCT TO ACCOMODATE FUTURE DRAINAGE FROM NEW 36-INCH CONVEYANCE PIPE.
4. CONSTRUCT QUEEN CITY LAKE OUTLET AND BYPASS PIPING AS SEEN ON SHEET 13.
5. REMOVE EXISTING QUEEN CITY LAKE OUTLET ONLY AFTER NEW 36-INCH CONVEYANCE PIPE HAS RECEIVED FINAL APPROVAL FROM THE KING COUNTY INSPECTOR.
6. PROCEED WITH FILLING IN LIFTS NO MORE THAN 20 FEET IN DEPTH. ANY LIFT THAT COMPLETES THE PROPOSED GRADES, AS SHOWN ON THE DESIGN PLANS, SHALL BE HYDROSEEDED UPON COMPLETION. UTILIZE THE HYDROSEED MIX AS OUTLINED ON SHEET 4. EACH 20-FOOT LIFT SHALL BE COMPACTED WITH THE ON-SITE EQUIPMENT UTILIZED FOR FILLING ACTIVITIES.
7. CLEAN AND MAINTAIN THE PERIMETER COLLECTION DITCHES ON A REGULAR BASIS, AND WHEN SEDIMENT BUILDUP EXCEEDS 1 FOOT IN DEPTH.
8. CONTINUE TO MAINTAIN AND CLEAN THE POND FACILITIES ON A SEMI-ANNUAL BASIS TO ENSURE SEDIMENT BUILDUP DOES NOT ENTER INTO NATURAL INFILTRATION AREA.
9. ANY AREAS THAT REMAIN TO BE FILLED BUT LEFT UNTOUCHED FOR MORE THAN 1 YEAR SHALL BE HYDROSEEDED UNTIL FURTHER FILLING ACTIVITIES OCCUR.

KING COUNTY DDES APPROVAL

Review Engineer	Date
Senior Engineer	Date
Wally Archuketa, P.E. DEVELOPMENT ENGINEER	Date

LANDAU ASSOCIATES
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(253) 284-4878 Phone
ERIC WEBER
Project Coordinator

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DESIGNED BY:	M. VEILLEUX
REVIEWED BY:	K. WIKEN
APPROVED BY:	K. SALTANOVITZ
DATE SURVEYED:	
SURVEYED BY:	
STATUS:	ISSUED FOR PERMIT REVIEW

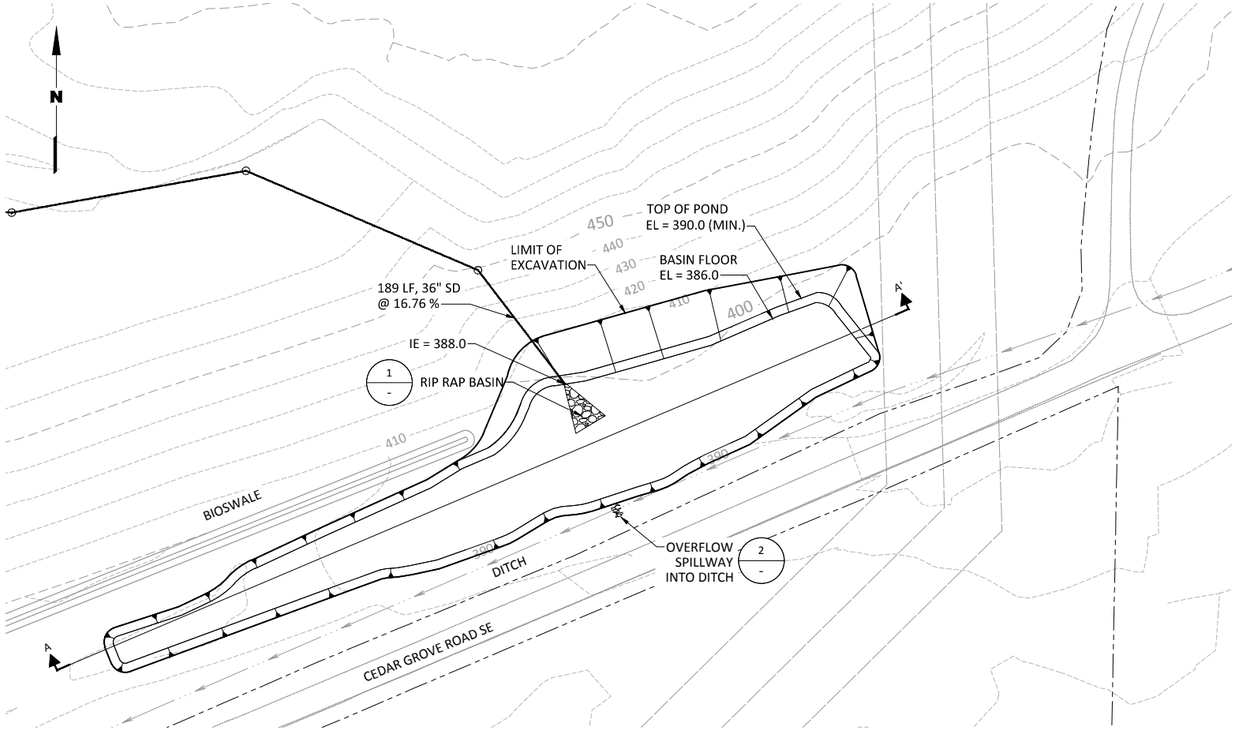
QUEEN CITY FARMS
PHASE III REFILL
MAPLE VALLEY, WASHINGTON

PHASE III RESTORATION PLAN SECTIONS

DDES FILE NUMBERS:
Activity Number:
Project Number:
Development No:

KATHERINE MARIE SALTANOVITZ
STATE OF WASHINGTON
47594
REGISTERED PROFESSIONAL ENGINEER

PROJECT NO. 992002.050
DATE 04/10/2018



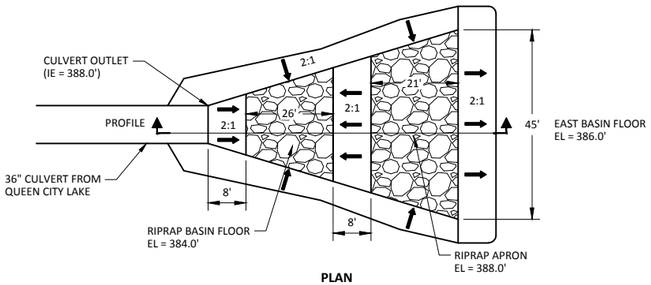
STORMWATER STANDARDS

INFILTRATION POND

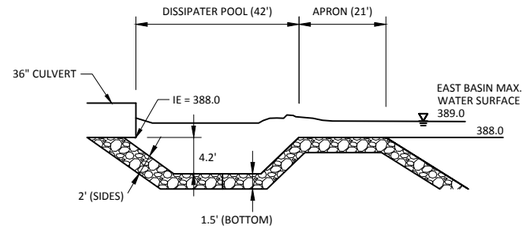
INFILTRATION RATE: 20 IN/HR
TOP OF POND = 390.00
MAX WATER SURFACE = 389.00
BOTTOM OF POND = 386.00
POND BOTTOM AREA = 100,400 SF
POND BOTTOM AREA REQUIRED = 78,500 SF
VOLUME PROVIDED = 457,100 CF

INFILTRATION FACILITY NOTE:

THE REQUIREMENTS FOR DRAINAGE FACILITY CONSTRUCTION AND OPERATION ARE SPECIFIED BY KING COUNTY CODE 9.04.09C AND THE PUBLIC RULE FOR RETENTION/DETENTION FACILITIES: IN OPERATION REQUIREMENTS. INFILTRATION FACILITIES MUST BE FIELD TESTED TO VERIFY THE DESIGN RATE OF SOIL INFILTRATIONS. THIS TESTING MUST BE COMPLETE AND APPROVED BY KING COUNTY PRIOR TO THE CONSTRUCTION OF ANY IMPROVEMENTS AND/OR BUILDING ON THE SITE. CONTACT THE LAND USE SITE DEVELOPMENT SERVICES SECTION TO DETERMINE THE APPROPRIATE TEST METHOD FOR THE DRAINAGE FACILITY.

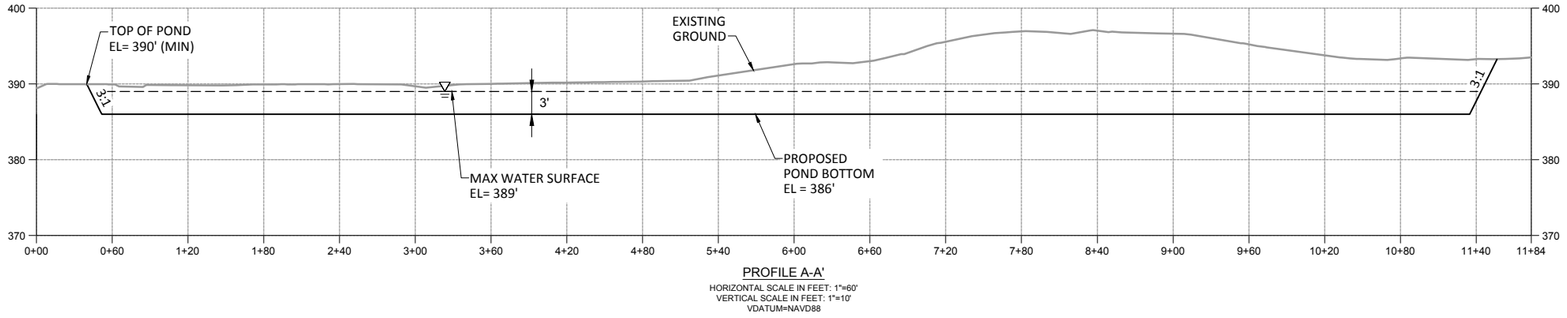


PLAN



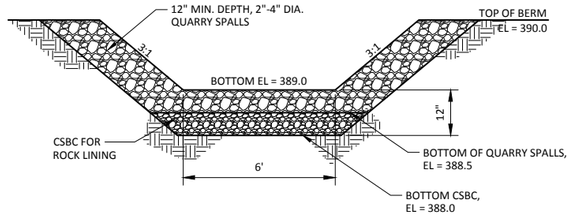
PROFILE

1 RIP RAP BASIN
NOT TO SCALE



PROFILE A-A'
HORIZONTAL SCALE IN FEET: 1"=60'
VERTICAL SCALE IN FEET: 1"=10'
VDATUM=NAVD88

0 60 120
Scale in Feet



2 OVERFLOW SPILLWAY DETAIL
NOT TO SCALE

KING COUNTY DDES APPROVAL

Review Engineer	Date
Senior Engineer	Date
Wally Archuketa, P.E. DEVELOPMENT ENGINEER	Date

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APPROVED BY:	K. SALTANOVITZ
DATE SURVEYED:	
SURVEYED BY:	
STATUS:	ISSUED FOR PERMIT REVIEW

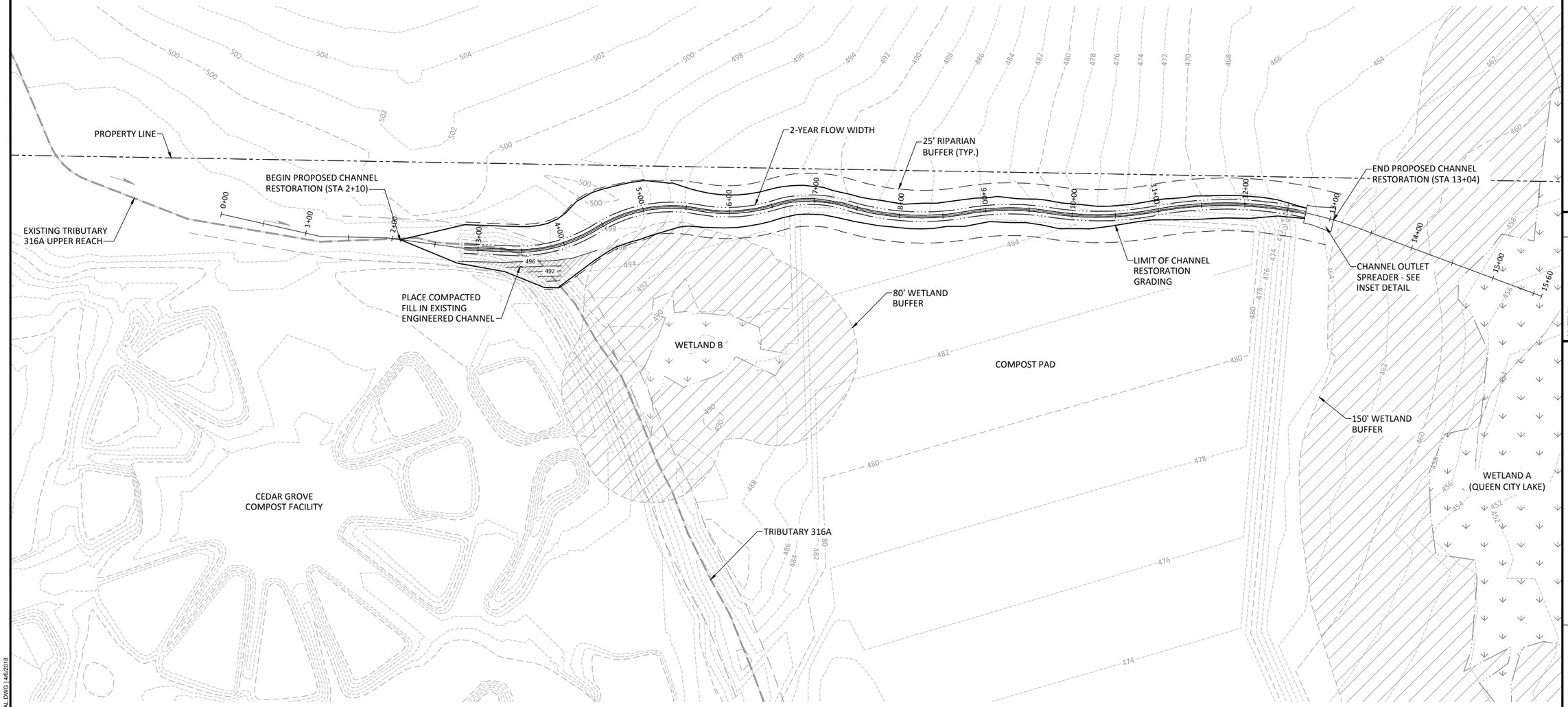
QUEEN CITY FARMS
PHASE III REFILL
MAPLE VALLEY, WASHINGTON

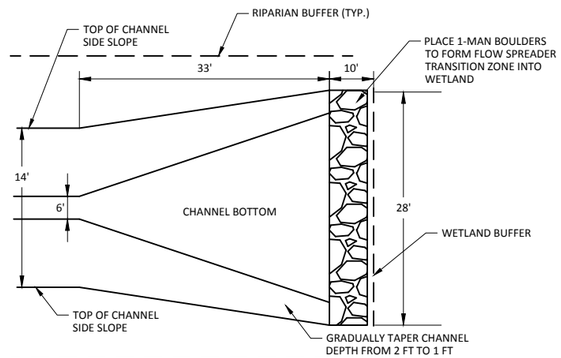
EAST RETENTION POND
MODIFICATIONS

DDES FILE NUMBERS:
Activity Number:
Project Number:
Development No:

KATHERINE MARIE SALTANOVITZ
STATE OF WASHINGTON
47594
REGISTERED
PROFESSIONAL ENGINEER

PROJECT NO. 992002.050
DATE 04/10/2018
Sheet 7 of 13





1/9 **CHANNEL OUTLET SPREADER DETAIL**
NOT TO SCALE

PLAN
0 60 120
Scale in Feet
N

KING COUNTY DDES APPROVAL

Review Engineer	Date
Senior Engineer	Date
Wally Archuketa, P.E. DEVELOPMENT ENGINEER	Date

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REVIEWED BY:	KWW
APPROVED BY:	KMS
DATE SURVEYED:	
SURVEYED BY:	
STATUS:	ISSUED FOR PERMIT REVIEW

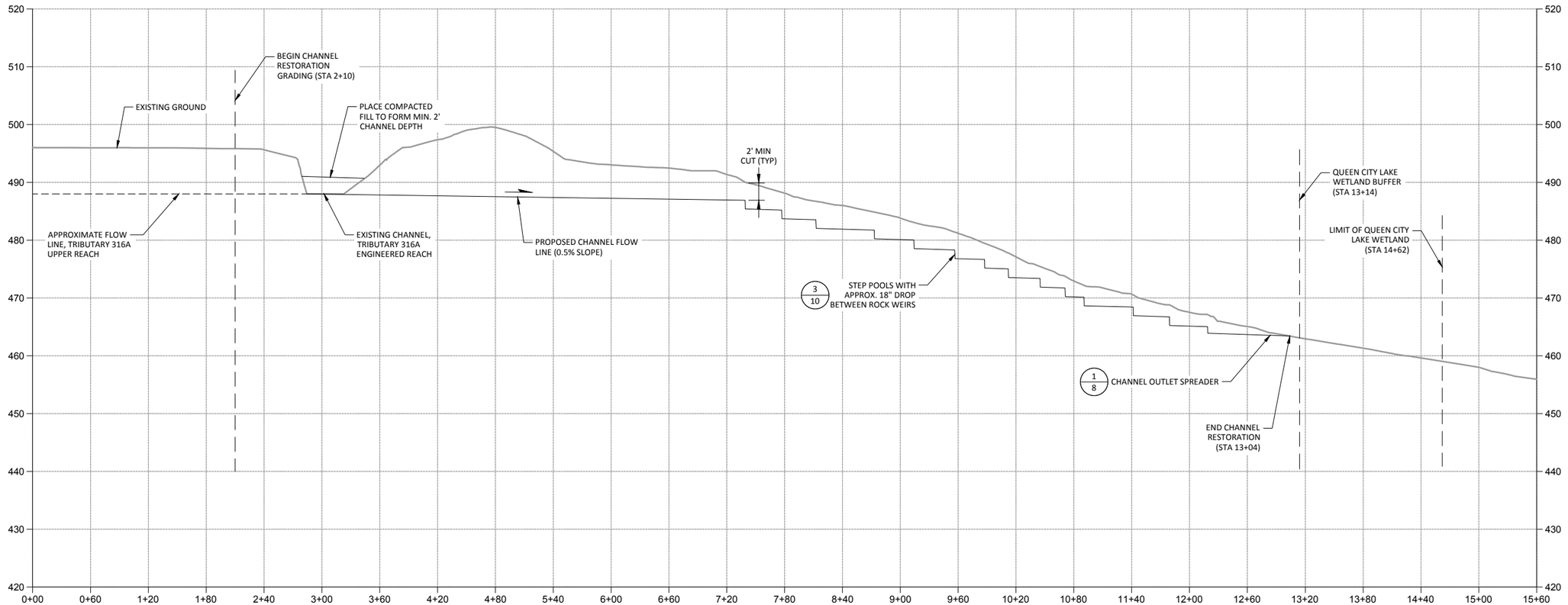
QUEEN CITY FARMS PHASE III REFILL MAPLE VALLEY, WASHINGTON

PROPOSED STREAM CHANNEL RESTORATION - ALIGNMENT

DDES FILE NUMBERS:
Activity Number:
Project Number:
Development No:

KATHERINE MARIE SALTANOVITZ
STATE OF WASHINGTON
47594
REGISTERED PROFESSIONAL ENGINEER

PROJECT NO. 992002.050
DATE 04/10/2018
Sheet 8 of 13



PROPOSED STREAM CHANNEL PROFILE

HORIZONTAL SCALE IN FEET: 1"=60'
VERTICAL SCALE IN FEET: 1"=10'
VERT. DATUM= NAVD88

0 60 120
SCALE IN FEET

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	ESZ
	MDV
	KWW
	KMS

QUEEN CITY FARMS
PHASE III REFILL
MAPLE VALLEY, WASHINGTON

PROPOSED STREAM CHANNEL RESTORATION - PROFILE

DDES FILE NUMBERS:
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REGISTERED PROFESSIONAL ENGINEER

KING COUNTY DDES APPROVAL

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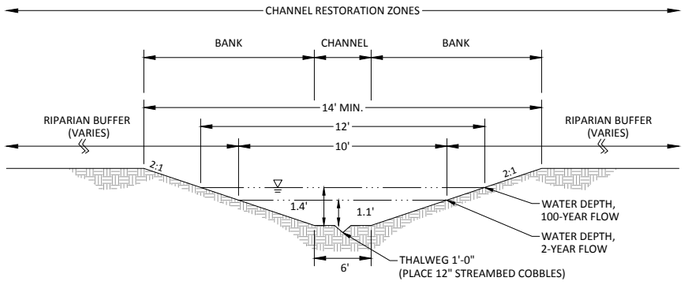
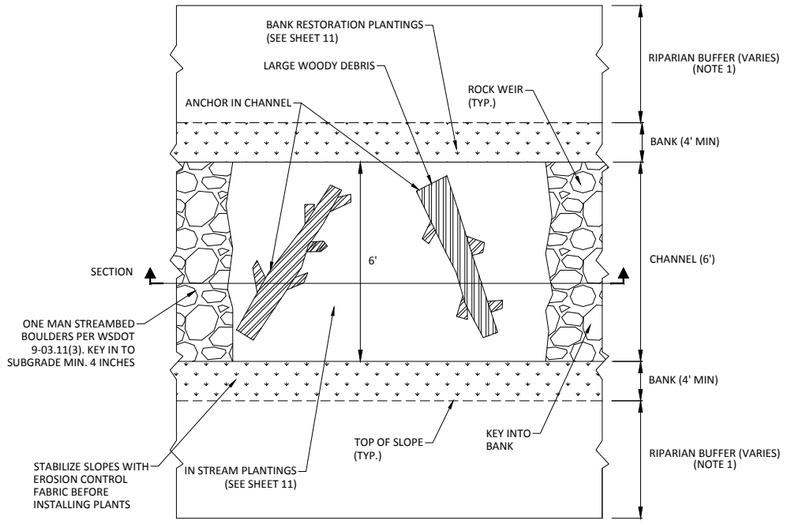


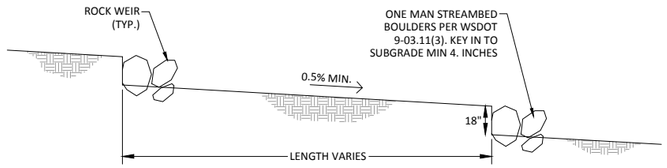
NOTES:

1. RESTORATION ZONE PLANT RECOMMENDATIONS SHOWN ON SHEET 11.

TYPICAL RESTORED STREAM CHANNEL SECTION
NOT TO SCALE



PLAN



SECTION

NOTES:

1. INSTALL HIGH VISIBILITY FENCE AND SIGNAGE ALONG OUTER EDGE OF BUFFER TO PROTECT NEWLY PLANTED AREA.

DETAIL - ROCK WEIRS
NOT TO SCALE

KING COUNTY DDES APPROVAL

Review Engineer	Date
Senior Engineer	Date
Wally Archuketa, P.E. DEVELOPMENT ENGINEER	Date

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ESZ
MDV
KWW
KMS

QUEEN CITY FARMS
PHASE III REFILL
MAPLE VALLEY, WASHINGTON

PROPOSED STREAM CHANNEL RESTORATION - SECTIONS

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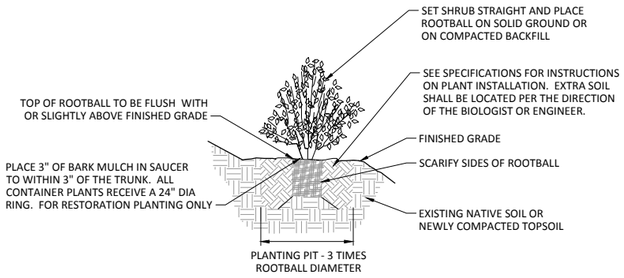
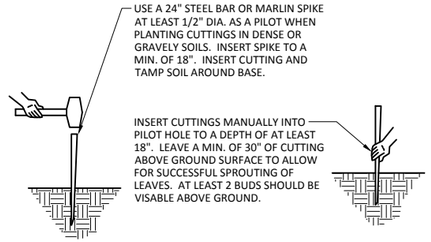


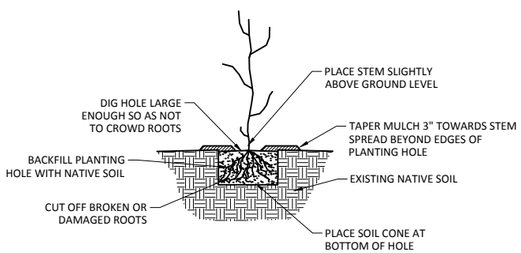
1 - **CONTAINER PLANTING DETAIL**
NOT TO SCALE



NOTES:

1. CUTTINGS SHALL BE SPECIES AS NOTED IN THE PLANT SCHEDULE.
2. CUTTINGS SHALL BE AT LEAST 1/2" DIA. AND 5' (MIN.) IN LENGTH.
3. CUTTINGS MUST BE ALIVE WITH SIDE BRANCHES CLEARLY REMOVED AND BARK INTACT. CUTTINGS SHALL BE PLANTED WITHIN 24 HOURS OF CUTTING.
4. THE BUTT ENDS SHOULD BE CLEANLY CUT AT AN ANGLE FOR EASY INSERTION INTO THE SOIL. THE TOP SHOULD BE CUT SQUARE OR BLUNT.
5. CUTTINGS MUST BE FRESH AND KEPT MOIST AFTER CUTTING. THEY SHOULD BE PRUNED AND INSTALLED THE SAME DAY.
6. DIP BOTTOM OF CUTTING IN A PLANT ROOTING HORMONE PRIOR TO INSERTION INTO THE SOIL.

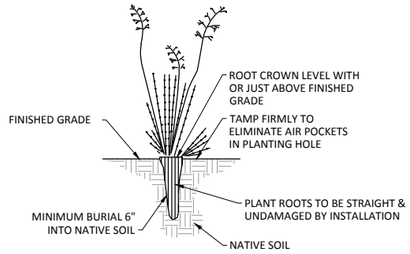
4 - **LIVE STAKES**
NOT TO SCALE



NOTES:

1. KEEP ROOTS MOIST AT ALL TIMES BEFORE AND DURING PLANTING.
2. INSTALL PLANTS WITHIN 2-DAYS OF RECEIPT OF BARE ROOT STOCK.
3. SOAK ROOTS IN TEPID WATER FOR 30-60 MINUTES PRIOR TO INTALLATION.
4. DIG HOLE TWICE THE DIAMETER OF THE ROOT SPREAD.
5. LEAVE CONE OF UNDISTURBED NATIVE SOIL IN CENTER OF HOLE, SPREADING ROOTS OVER CONE.
6. INSTALL CROWN SLIGHTLY HIGHER THAN FINISHED GRADE TO ALLOW FOR POTENTIAL SETTLEMENT WITH ROOTS SPREADING DOWNWARD OVER SOIL CONE.
7. TAPER MULCH (2-3") TOWARDS BUT NOT TOUCHING CROWN.

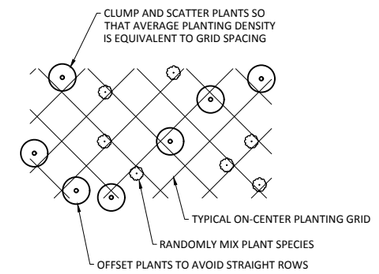
5 - **BARE ROOT**
NOT TO SCALE



NOTES:

1. LEAVES & ROOT CROWN TO REMAIN UNDAMAGED DURING PLANTING.
2. CREATE PLANTING HOLE BY DRIVING STEEL SPIKE INTO SOIL & WORKING SPIKE TO WIDEN SOIL.
3. PLANT AFTER FALL RAINS HAVE DAMPENED SOIL UNLESS DIRECTED OTHERWISE.
4. KEEP PLUGS MOIST AND COVERED AT ALL TIMES PRIOR TO PLANTING.
5. MAKE A HOLE TO ACCOMMODATE PLUG; V-SHAPED FURROW APPROXIMATELY 12 INCHES DEEP.
6. PLACE PLUG INTO THE HOLE ENSURING THE PLUG IS TO THE BOTTOM OF THE HOLE.
7. BACKFILL WITH NATIVE SOIL USING 2 TO 3 INCHES OF MULCH OVER PLUG HOLD.
8. THE TOP OF PLUG SOIL SHALL BE SLIGHTLY BELOW GRADE.
9. CREATE HOLE FOR THE NEXT PLUG, USING THE SPECIFIED SPACING (1 FOOT ON-CENTER).
10. REPEAT INSTALLATION PROCEDURE.
11. PLANT IN ROWS CONTINUING IN A STRAIGHT LINE TO THE END OF THE PLANTING AREA. STAGGER THE SPECIFIED SPACING FOR THE NEXT ROW MAINTAINING ON CENTER SPACING AND CONTINUE PLANTING. STAGGER PLUGS AS SHOWN BELOW:

2 - **PLUG PLANTING DETAIL**
NOT TO SCALE



NOTES:

1. ON-CENTER (O.C.) PLANT SPACING IS AN AVERAGE. PLANTS SHOULD BE SPACED IN A NATURAL PATTERN, WHICH SOMETIMES INCLUDES CLUSTERING SPECIES BASED ON TOPOGRAPHY AND ADJACENT LANDSCAPE. FINAL LOCATIONS SHALL BE APPROVED BY A BIOLOGIST.
2. ALL SPECIFICATIONS FOR PLANT MATERIALS SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION.
3. THE BIOLOGIST SHALL INSPECT AND APPROVE THE PLANT MATERIAL AT THE JOB SITE FOR PLANT HEALTH, SIZE, AND SPECIES PRIOR TO PLANTING.

3 - **RANDOM PLANTING DETAIL**
NOT TO SCALE

RESTORATION PLANT RECOMMENDATIONS

RESTORATION ZONES	COMMON NAME	SCIENTIFIC NAME	MINIMUM SPACING (O.C. FT)	FORM	MAX HEIGHT (FT)	LIGHT NEEDS[1]	SITE PLACEMENT[2]	COMMENTS
CHANNEL								
	PACIFIC WILLOW	*Salix lucida*	1	5' STAKES	36	HA	SS	INSTALL THESE RECOMMENDED PLANTS WITHIN GRADED STREAM CHANNEL AT EDGE OF STREAMBANK. INSTALL SLOUGH SEDGE IN CLUMPS OF 4 PLANTS WITH 1 FT ON-CENTER SPACING THROUGHOUT GRADED STREAM CHANNEL AREAS ONLY.
	SITKA WILLOW	*Salix sitchensis*	1	5' STAKES	25	HA	WE,SS,WB	
	SLOUGH SEDGE	*Carex obnupta*	1	PLUGS	4.5	ST	SS	
BANK								
	BLACK COTTONWOOD	*Populus trichocarpa*	10	1-GAL	200	HA	WE,WB,SS	INSTALL THESE RECOMMENDED PLANTS ACCORDING TO THEIR SITE PLACEMENT NEEDS. WETTER EDGE INDICATES INSTALLING PLANT CLOSER TO EDGE OF GRADED STREAM CHANNEL. DRIER BUFFER INDICATES INSTALLING PLANT HIGHER UP ON STREAMBANK AWAY FROM GRADED STREAM CHANNEL.
	CASCARA	*Rhamus purshiana*	10	1-GAL	25	HA	WE,WB	
	BLACK TWINBERRY	*Lonicera involucrata*	4	1-GAL	10	SI-ST	WE,WB	
	SALMONBERRY	*Rubus spectabilis*	4	BARE ROOT	15	HA	WE,WB	
	RED-OSIER DOGWOOD	*Cornus sericea*	4	BARE ROOT	20	SI-ST	WE,WB	
	NOOTKA ROSE	*Rosa nutkana*	4	BARE ROOT	10	SI-ST	WE,WB	
	RED ALDER	*Alnus rubra*	4	BARE ROOT	80	SI-ST	WB,WE,SS	
	PACIFIC NINEBARK	*Cornus sericea*	4	1-GAL	13	ST	DB	
RIPARIAN BUFFER								
	BIGLEAF MAPLE	*Acer macrophyllum*	10	1-GAL	100	ST	DB	INSTALL THESE RECOMMENDED PLANTS ACCORDING TO THEIR SITE PLACEMENT NEEDS. ALL PLANTS SHOULD BE ADAPTABLE TO DRIER BUFFER CONDITIONS. PLANTS MAY NEED SUPPLEMENTAL WATERING DURING FIRST YEAR FOLLOWING INSTALLATION.
	PAPER BIRCH	*Betula papyrifera*	10	1-GAL	230	ST	WE,SS	
	OCEAN SPRAY	*Holodiscus discolor*	4	1-GAL	10	SI-ST	DB	
	SERVICEBERRY	*Amelanchier alnifolia*	4	1-GAL	35	SI-ST	WE,WB	
	COMMON SNOWBERRY	*Symphoricarpos albus*	4	1-GAL	6	SI-ST	DB	
	RED-FLOWERING CURRENT	*Ribes sanguineum*	4	1-GAL	13	SI-ST	DB	
	WOOD ROSE	*Rosa gymnocarpa*	4	1-GAL	7	ST	DB	
	RED ELDERBERRY	*Sambucus racemosa*	4	1-GAL	20	HA	WB,DB	
	INDIAN PLUM	*Oemlaria cerasiformis*	4	BARE ROOT	15	HA	WE,WB,DB	

NATIVE HYDROSEED MIX:

SCIENTIFIC NAME	COMMON NAME	PROPORTIONS BY WEIGHT
Alopecurus geniculatus	WATER FOXTAIL	15%
Agrostis stolonifera	SPREADING BENTGRASS	15%
Glyceria grandis	REED MANAGRASS	15%
Deschampsia cespitosa	TUFTED HAIRGRASS	15%
Eleocharis palustris	CREEPING SPIKE RUSH	10%
Juncus tenuis	SLENDER RUSH	10%
Scirpus microcarpus	SMALL-FRUITED BULL RUSH	10%
Carex obnupta	SLOUGH SEDGE	10%

[1]LIGHT NEEDS:
SI = SHADE INTOLERANT
ST = SHADE TOLERANT
SD = SHADE DEPENDENT
HA = HIGHLY ADAPTABLE

[2]SITE PLACEMENT:
DB = DRIER BUFFER
WB = WETTER BUFFER
WE = WETTER EDGE
SS = SATURATED SOILS

NOTES:

1. PLANT FORMS ARE APPROXIMATE AND WILL BE BASED ON AVAILABILITY FROM SUPPLIER AT TIME OF INSTALLATION.
2. PLANT SPECIES SUBSTITUTIONS FROM RESTORATION ZONES WILL BE APPROVED BY WETLAND BIOLOGIST PRIOR TO ORDERING PLANT STOCK.

KING COUNTY DDES APPROVAL

Review Engineer	Date
Senior Engineer	Date
Wally Archuketa, P.E. DEVELOPMENT ENGINEER	Date

LANDAU ASSOCIATES
130 2ND AVENUE S.
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(253) 284-4878 Phone
ERIC WEBER
Project Coordinator

DRAFTED BY:	E. ZICK
DESIGNED BY:	M. VEILLEUX
REVIEWED BY:	K. WIKEN
APPROVED BY:	K. SALTANOVITZ
DATE SURVEYED:	
SURVEYED BY:	
STATUS:	ISSUED FOR PERMIT REVIEW

QUEEN CITY FARMS
PHASE III REFILL
MAPLE VALLEY, WASHINGTON

WETLAND PLANTING PLAN

DDES FILE NUMBERS:
Activity Number:
Project Number:
Development No:

KATHERINE MARIE SALTANOVITZ
STATE OF WASHINGTON
47594
REGISTERED PROFESSIONAL ENGINEER

PROJECT NO. 992002.050
DATE 04/10/2018
Sheet 11 of 13

GENERAL NOTES:

1. ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH PERMIT CONDITIONS, THE KING COUNTY CODE (KCC), THE KING COUNTY ROAD DESIGN AND CONSTRUCTION STANDARDS (KCRDCS), WASHINGTON STATE DOT (WSDOT) STANDARD SPECIFICATIONS AND THE CONDITIONS OF PRELIMINARY APPROVAL. IT SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT AND THE PROFESSIONAL CIVIL ENGINEER TO CORRECT ANY ERROR, OMISSION, OR VARIATION FROM THE ABOVE REQUIREMENTS FOUND IN THESE PLANS. ALL CORRECTIONS SHALL BE AT NO ADDITIONAL COST OR LIABILITY TO KING COUNTY.
2. THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED ACCORDING TO THE KING COUNTY DEPARTMENT OF PERMITTING AND ENVIRONMENTAL REVIEW (DPER) ENGINEERING REVIEW CHECKLIST. SOME ELEMENTS MAY HAVE BEEN OVERLOOKED OR MISSED BY THE DPER PLAN REVIEWER. ANY VARIANCE FROM ADOPTED STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY KING COUNTY PRIOR TO CONSTRUCTION.
3. APPROVAL OF THIS ROAD, GRADING, PARKING AND DRAINAGE PLAN DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER CONSTRUCTION (E.G. DOMESTIC WATER CONVEYANCE, SEWER CONVEYANCE, GAS, ELECTRICAL, ETC.)
4. BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, A PRECONSTRUCTION MEETING MUST BE HELD BETWEEN THE DPER'S DEVELOPMENT INSPECTOR, THE APPLICANT, AND THE APPLICANT'S CONSTRUCTION REPRESENTATIVE.
5. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
6. GRADING ACTIVITIES (SITE ALTERATION) ARE LIMITED TO THE HOURS OF 7 A.M. TO 7 P.M. MONDAY THROUGH SATURDAY AND 10 A.M. TO 5 P.M. ON SUNDAY, UNLESS OTHERWISE APPROVED WITH A WRITTEN DECISION BY THE REVIEWING AGENCY.
7. IT SHALL BE THE APPLICANT'S/CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS NECESSARY BEFORE INITIATING OFF-SITE WORK. EASEMENTS REQUIRE REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
8. FRANCHISED UTILITIES OR OTHER INSTALLATIONS THAT ARE NOT SHOWN ON THESE APPROVED PLANS SHALL NOT BE CONSTRUCTED UNLESS AN APPROVED SET OF PLANS THAT MEET ALL REQUIREMENTS OF KCRDCS CHAPTER 8 ARE SUBMITTED TO THE DPER'S DEVELOPMENT INSPECTOR THREE DAYS PRIOR TO CONSTRUCTION.
9. DATUM SHALL BE NAVD88 UNLESS OTHERWISE APPROVED BY DPER.
10. DEWATERING SYSTEM (UNDERDRAIN) CONSTRUCTION SHALL BE WITHIN A RIGHT-OF-WAY OR APPROPRIATE DRAINAGE EASEMENT, BUT NOT UNDERNEATH THE ROADWAY SECTION. ALL UNDERDRAIN SYSTEMS MUST BE CONSTRUCTED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS.
11. ALL UTILITY TRENCHES AND ROADWAY SUBGRADE SHALL BE BACKFILLED AND COMPACTED TO 95 PERCENT MAXIMUM DENSITY PER WSDOT STANDARD SPECIFICATIONS 2-03.3(14)D, METHOD C.
12. OPEN CUTTING OF EXISTING ROADWAYS FOR NON-FRANCHISED UTILITY OR STORM WORK IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY DPER AND NOTED ON THESE APPROVED PLANS. ANY OPEN CUT SHALL BE RESTORED IN ACCORDANCE WITH KCRDCS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL APPLY. WORK IN RIGHT-OF-WAY IS NOT AUTHORIZED UNTIL A TRAFFIC CONTROL PLAN IS APPROVED BY KING COUNTY.

DRAINAGE NOTES:

1. PROOF OF LIABILITY INSURANCE SHALL BE SUBMITTED TO DPER PRIOR TO THE CONSTRUCTION OF THE DRAINAGE FACILITIES, PREFERABLY AT THE PRECONSTRUCTION MEETING.
2. ALL PIPE AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT SPECIFICATIONS. THIS SHALL INCLUDE LEVELING AND COMPACTING THE TRENCH BOTTOM, THE TOP OF THE FOUNDATION MATERIAL, AND ANY REQUIRED PIPE BEDDING, TO A UNIFORM GRADE SO THAT THE ENTIRE PIPE IS SUPPORTED BY A UNIFORMLY DENSE UNYIELDING BASE.
3. STEEL PIPE SHALL BE ALUMINIZED, OR GALVANIZED WITH ASPHALT TREATMENT #1 OR BETTER INSIDE AND OUTSIDE.
4. ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK, SHALL HAVE SOLID LOCKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY SHALL HAVE SOLID LOCKING LIDS.
5. ALL CATCH BASIN GRATES SHALL CONFORM TO KCRDCS, WHICH INCLUDES THE STAMPING "OUTFALL TO STREAM, DUMP NO POLLUTANTS" AND "PROPERTY OF KING COUNTY", EXCEPT THAT PRIVATE DRAINAGE SYSTEMS SHALL NOT HAVE THE WORDS “PROPERTY OF KING COUNTY”.
6. ALL DRIVEWAY CULVERTS LOCATED WITHIN KING COUNTY RIGHT-OF-WAY SHALL BE OF SUFFICIENT LENGTH TO PROVIDE A MINIMUM 3:1 SLOPE FROM THE EDGE OF THE DRIVEWAY TO THE BOTTOM OF THE DITCH. CULVERTS SHALL HAVE BEVELED END SECTIONS TO MATCH THE SIDE SLOPE PER KCRDCS.
7. ROCK FOR EROSION PROTECTION OF ROADWAY DITCHES, WHERE REQUIRED, MUST BE OF SOUND QUARRY ROCK, PLACED TO A DEPTH OF 1 FOOT, AND MUST MEET THE FOLLOWING SPECIFICATIONS: 4"-8"/40%-70% PASSING; 2"- 4" ROCK/30%-40% PASSING; AND -2" ROCK/10%-20% PASSING. INSTALLATION SHALL BE IN ACCORDANCE WITH KCRDCS.
8. DRAINAGE OUTLETS (STUB-OUTS) SHALL BE PROVIDED FOR EACH INDIVIDUAL LOT, EXCEPT FOR THOSE LOTS APPROVED FOR INFILTRATION BY KING COUNTY. STUB-OUTS SHALL CONFORM TO THE FOLLOWING:
   A) EACH OUTLET SHALL BE SUITABLY LOCATED AT THE LOWEST ELEVATION ON THE LOT, SO AS TO SERVICE ALL FUTURE ROOF DOWNSPOUTS AND FOOTING DRAINS, DRIVEWAYS, YARD DRAINS, AND ANY OTHER SURFACE OR SUBSURFACE DRAINS NECESSARY TO RENDER THE LOTS SUITABLE FOR THEIR INTENDED USE. EACH OUTLET SHALL HAVE FREE-FLOWING, POSITIVE DRAINAGE TO AN APPROVED STORMWATER CONVEYANCE SYSTEM OR TO AN APPROVED OUTFALL LOCATION.
   B) OUTLETS ON EACH LOT SHALL BE LOCATED WITH A FIVE-FOOT-HIGH, 2" X 4" STAKE MARKED "STORM" OR "DRAIN". THE STUB-OUT SHALL EXTEND ABOVE SURFACE LEVEL, BE VISIBLE, AND BE SECURED TO THE STAKE.
   C) PIPE MATERIAL SHALL CONFORM TO UNDERDRAIN SPECIFICATIONS DESCRIBED IN KCRDCS AND, IF NON-METALLIC, THE PIPE SHALL CONTAIN WIRE OR OTHER ACCEPTABLE DETECTION.
   D) DRAINAGE EASEMENTS ARE REQUIRED FOR DRAINAGE SYSTEMS DESIGNED TO CONVEY FLOWS THROUGH INDIVIDUAL LOTS.
   E) THE APPLICANT/CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS OF ALL STUB-OUT CONVEYANCE LINES WITH RESPECT TO THE UTILITIES (E.G. POWER, GAS, TELEPHONE, TELEVISION).
   F) ALL INDIVIDUAL STUB-OUTS SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE LOT HOME OWNER.
9. ALL DISTURBED PERVIOUS AREAS (COMPACTED, GRADED, LANDSCAPED, ETC.) OF THE DEVELOPMENT SITE MUST DEMONSTRATE ONE OF THE FOLLOWING, IN ACCORDANCE WITH KCC AND THE LOW IMPACT DEVELOPMENT (LID) COMPONENTS OF THE APPROVED SITE PLAN: THE EXISTING DUFF LAYER SHALL BE STAGED AND REDISTRIBUTED TO MAINTAIN THE MOISTURE CAPACITY OF THE SOIL, OR; AMENDED SOIL SHALL BE ADDED TO MAINTAIN THE MOISTURE CAPACITY.
10. SEASONAL CLEARING IS LIMITED BETWEEN OCTOBER 1 AND APRIL 30 INCLUSIVE, UNLESS OTHERWISE APPROVED WITH A WRITTEN DECISION BY THE REVIEWING AGENCY.
11. IMPROVEMENTS AND/OR BUILDINGS SHALL NOT BE INSTALLED UNTIL DRAINAGE FACILITIES ARE “IN OPERATION”, (KCC 9.04).

EROSION AND SEDIMENTATION CONTROL NOTES:

1. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.)
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, IF REQUIRED, PRIOR TO CONSTRUCTION (KING COUNTY SWDM APPENDIX D). DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
4. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.
5. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, FLOW CONTROL BMP LOCATIONS (EXISTING AND PROPOSED), AND ADJACENT PROPERTIES IS MINIMIZED.
6. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.).
7. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.
8. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC COVER METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
9. ANY AREA NEEDING ESC MEASURES, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
10. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH (MORE FREQUENTLY AS REQUIRED BY THE DPER SITE INSPECTOR) OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.
11. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
12. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY. FLOW CONTROL BMP FACILITY AREAS (EXISTING OR PROPOSED) SHALL NOT BE USED AS TEMPORARY FACILITIES AND SHALL BE PROTECTED FROM SEDIMENTATION AND INTRUSION.
13. COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF THE KING COUNTY SURFACE WATER DESIGN MANUAL.
14. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE DPER INSPECTOR FOR REVIEW.

STRUCTURAL NOTES:

1. THESE PLANS ARE APPROVED FOR STANDARD ROAD AND DRAINAGE IMPROVEMENTS ONLY. PLANS FOR STRUCTURES SUCH AS BRIDGES, VAULTS, AND RETAINING WALLS REQUIRE A SEPARATE REVIEW AND APPROVAL BY DPER PRIOR TO CONSTRUCTION (KCC 16.04. 16.70, 14.20).
2. ROCKERIES ARE CONSIDERED TO BE A METHOD OF BANK STABILIZATION AND EROSION CONTROL. ROCKERIES SHALL NOT BE CONSTRUCTED TO SERVE AS RETAINING WALLS. ALL ROCKERIES IN COUNTY ROAD RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH KCRDCS. ROCKERIES OUTSIDE OF ROAD RIGHT-OF-WAY SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.

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ESZ
MDV
KWW
KMS

QUEEN CITY FARMS
PHASE III REFILL
MAPLE VALLEY, WASHINGTON

NOTES

DDES FILE NUMBERS:
Activity Number:
Project Number:
Development No:

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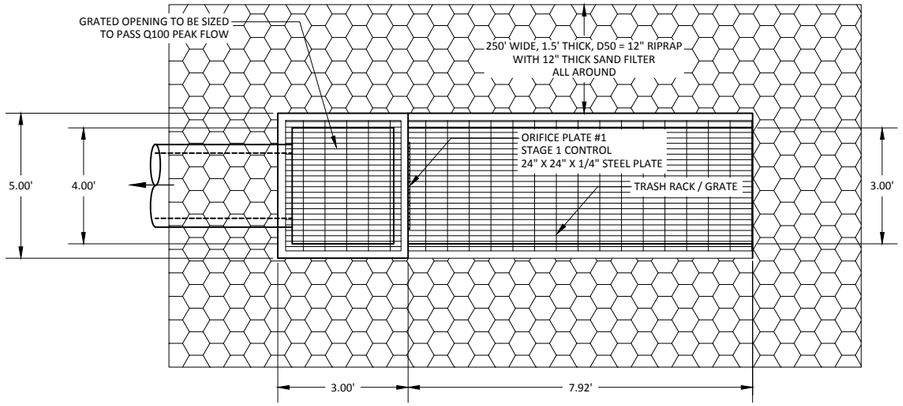
47594
REGISTERED PROFESSIONAL ENGINEER

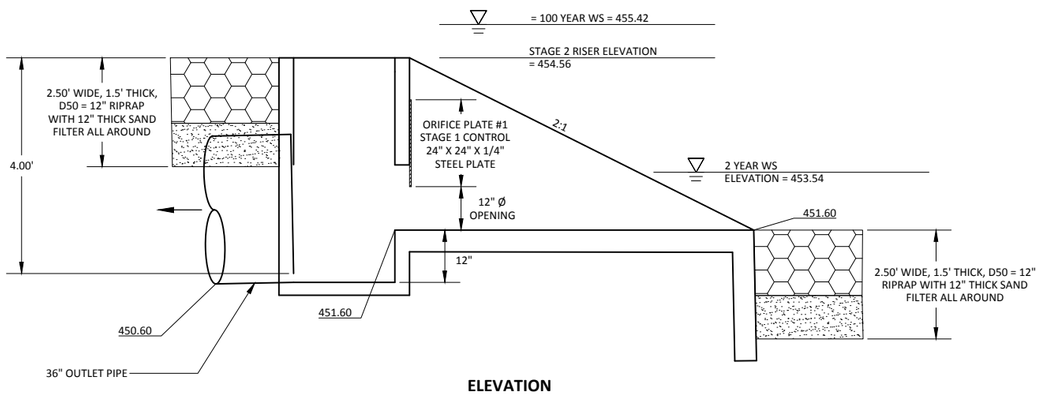
KING COUNTY DDES APPROVAL

Review Engineer	Date
Senior Engineer	Date
Wally Archuketa, P.E. DEVELOPMENT ENGINEER	Date

PROJECT NO. 992002.050
DATE 04/10/2018
Sheet 12 of 13



PLAN VIEW



ELEVATION

1/3 **QUEEN CITY LAKE OUTLET STRUCTURE**
NOT TO SCALE

NOTES:

1. THE OUTLET STRUCTURE SHOWN WAS DESIGNED USING ANTICIPATED UPSTREAM CONDITIONS TO ESTIMATE FUTURE HYDROLOGIC RUNOFF VOLUMES AND PEAK FLOWS. A GROUND INFILTRATION RATE WAS ALSO USED IN THIS OUTLET STRUCTURE STAGE, STORAGE, DISCHARGE, AND INFILTRATION CALCULATIONS. LANDAU ASSOCIATES MAKES NO GUARANTEE IN THE ESTIMATED RAINFALL INTENSITIES AND RESULTING PERFORMANCE OF THIS STRUCTURE. MODIFICATION OF THE ORIFICE PLATE IS RECOMMENDED SHOULD CONDITIONS WARRANT.
2. THE ORIFICE PLATE IS TO BE ATTACHED IN SUCH A MANNER THAT RE-SIZING AND RE-ATTACHMENT OF A MODIFIED PLATE IS POSSIBLE.
3. STRUCTURAL DESIGN FOR ALL WALLS, BY OTHERS.
4. CONTRACTOR SHALL FOLLOW RECOMMENDATIONS AND SPECIFICATIONS OF THE SOILS ENGINEER.
5. GRATE OPENINGS FOR THE TOP OF THE STRUCTURE AND THE OUTLET PIPE ARE TO BE SIZED TO PASS 1.2 TIMES THE 100 YEAR PEAK OUTLET FLOW.
6. A 60-INCH DIAMETER TYPE 2 MANHOLE WITH BEEHIVE GRATE MAY BE USED IN PLACE OF THE OUTLET STRUCTURE SHOWN.

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QUEEN CITY FARMS
PHASE III REFILL
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QUEEN CITY LAKE OUTLET STRUCTURE

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