

GENERAL NOTES

GENERAL

- ALL IMPROVEMENTS SHALL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION, AND TO THE SATISFACTION OF THE SNOHOMISH CONSERVATION DISTRICT (SCD). IMPROVEMENT CONSTRUCTION SHALL COMPLY WITH THESE PLANS AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD PLANS, CURRENT EDITION. ALL REFERENCES TO THE "STANDARD SPECIFICATIONS" SHALL MEAN THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, CURRENT EDITION. CONSTRUCTION NOT SPECIFIED ON THESE PLANS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS OBLIGATED TO BE FAMILIAR WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS NOT DISCUSSED IN THE GENERAL NOTES. THE CONTRACT SPECIAL PROVISIONS SHALL SUPERSEDE THOSE OF THE STANDARD SPECIFICATIONS WHERE DISCREPANCIES OCCUR.
- CONSTRUCTION HOURS SHALL BE WEEKDAYS BETWEEN 8:00 A.M. AND 6:30 P.M. UNLESS PRIOR APPROVAL IS RECEIVED FROM THE SCD.
- THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND FURTHER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS IN ACCORDANCE WITH THE PROVISIONS OUTLINED BY THE PROJECT CONTRACT AND STANDARD SPECIFICATIONS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND HIS SUBCONTRACTOR(S) TO EXAMINE THE PROJECT SITE PRIOR TO THE OPENING OF BID PROPOSALS. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, SUCH AS THE NATURE AND LOCATION OF THE WORK AND THE GENERAL AND LOCAL CONDITIONS, PARTICULARLY THOSE AFFECTING THE AVAILABILITY OF TRANSPORTATION, THE DISPOSAL, HANDLING, AND STORAGE OF MATERIALS, AVAILABILITY OF LABOR, WATER, ELECTRICITY, ROADS, THE UNCERTAINTIES OF WEATHER, THE CONDITIONS OF THE GROUND, SURFACE AND SUBSURFACE MATERIALS, THE EQUIPMENT AND FACILITIES NEEDED PRIMARILY FOR AND DURING THE PERFORMANCE OF THE WORK, AND THE COSTS THEREOF. ANY FAILURE BY THE CONTRACTOR AND SUBCONTRACTOR(S) TO ACQUAINT HIMSELF WITH ALL THE AVAILABLE INFORMATION WILL NOT RELIEVE HIM FROM RESPONSIBILITY FOR PROPERLY ESTIMATING THE DIFFICULTY AND COST OF SUCCESSFULLY PERFORMING THE WORK.
- HE CONTRACTOR SHALL OBTAIN AT HIS OWN EXPENSE ALL PERMITS, LICENSES, INSURANCE POLICIES, ETC., NOT ALREADY OBTAINED BY SCD, AS MAY BE NECESSARY TO COMPLY WITH STATE AND LOCAL LAWS ASSOCIATED WITH THE PERFORMANCE OF THE WORK.
- THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE CONTRACT DOCUMENTS FOR ALL SUBMITTALS REQUIRED FOR SCD REVIEW AND ACCEPTANCE.
- THE ENGINEER RESPONSIBLE FOR PREPARATION OF THESE PLANS AND SPECIFICATIONS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE OVERSEEING ENGINEER RESPONSIBLE FOR PREPARATION OF THESE PLANS.
- IF, DURING CONSTRUCTION, ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED, CONSTRUCTION IN THE VICINITY SHALL BE HALTED, AND THE STATE OFFICE OF HISTORIC PRESERVATION, SCD AND A QUALIFIED ARCHEOLOGIST SHALL BE NOTIFIED IMMEDIATELY.
- THE CONTRACTOR SHALL COMPLETE ALL WORK IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS AS WELL AS ALL PERMIT REQUIREMENTS.

SURVEY

- UNLESS NOTED OTHERWISE ON THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION.
- ELEVATIONS SHOWN ON THE PLANS FOR PIPE INVERTS, TOPS OF BANKS, THALWEGS, GRADE CONTROLS, ETC., ARE BASED UPON THE TOPOGRAPHIC INFORMATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY ALL NECESSARY SURFACE ELEVATIONS IN THE FIELD AND NOTIFY SCD OF ANY DISCREPANCIES, WHICH MIGHT AFFECT PROPER OPERATION OF THE NEW FACILITIES BEFORE BREAKING GROUND AND PRIOR TO FACILITY INSTALLATION. SCD SHALL BE CONTACTED IN THE EVENT ELEVATIONS ARE INCORRECT SO THAT THE PROPER ADJUSTMENTS CAN BE MADE PRIOR TO THE INSTALLATION OF THE FACILITIES, AS SET FORTH IN THE SPECIAL PROVISIONS.

TRAFFIC CONTROL

- THE CONTRACTOR SHALL PROVIDE, PLACE, AND MAINTAIN ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, PILOT CAR, OR OTHER DEVICES NECESSARY TO CONTROL TRAFFIC IN THE CONSTRUCTION AREA AND FOR PUBLIC SAFETY IN ACCORDANCE WITH THESE PLANS, THE STANDARD SPECIFICATIONS, FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2003 EDITION.

TEMPORARY EROSION & SEDIMENT CONTROL

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL TEMPORARY EROSION CONTROL MEASURES. THE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH SNOHOMISH COUNTY AND STATE REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PERFORMANCE OF THE TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT.
- GROUNDWATER CONDITIONS ON THE SITE WERE NOT EVALUATED BUT CONTRACTOR SHOULD EXPECT HIGH GROUNDWATER INFLOWS TO WORK AREAS. CONTRACTOR SHALL SUBMIT A DIVERSION & DEWATERING PLAN TO THE ENGINEER FOR APPROVAL IF FIELD CONDITIONS WARRANT.
- THE CONTRACTOR SHALL HAVE AN EMERGENCY SPILL KIT ONSITE AT ALL TIMES.
- PERMIT CONDITIONS MAY CONTAIN SPECIFIC REQUIREMENTS FOR THE CONTROL OF OFF-SITE TURBIDITY FROM PROJECT OPERATIONS. TURBIDITY WILL BE MONITORED ON A FREQUENT BASIS BY THE PROJECT MANAGEMENT AND INSPECTION STAFF ON-SITE. TURBIDITY AMOUNTS IN EXCESS OF THE PERMITTED AMOUNT AND/OR DURATIONS WILL CAUSE WORK TO BE STOPPED UNTIL IMPROVED PRACTICES ARE IN EFFECT AND THE PROBLEMS CONTROLLED. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR ANY PROJECT DELAYS THAT OCCUR BY NATURE OF THIS FAILURE TO ADEQUATELY CONTAIN SEDIMENT ON-SITE.
- THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT NO PETROLEUM PRODUCTS, HYDRAULIC FLUID, SEDIMENTS, SEDIMENT-LADEN WATER, CHEMICALS, OR ANY OTHER TOXIC OR DELETERIOUS MATERIALS ARE ALLOWED TO ENTER OR LEACH INTO THE RIVER. CONTRACTOR SHALL SUBMIT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND SPILL PREVENTION, CONTROL AND COUNTERMEASURES PLAN (SPCC) TO THE ENGINEER FOR APPROVAL.

UTILITIES

- THE LOCATIONS AND EXTENT OF EXISTING UNDERGROUND UTILITIES IN THE WORK AREA AS SHOWN ARE APPROXIMATE AND ARE NOT NECESSARILY COMPLETE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE EXISTING UTILITIES BASED UPON AVAILABLE RECORDS. THE CONTRACTOR SHALL DETERMINE THE TYPE, LOCATION, SIZE, AND/OR DEPTH OF THE EXISTING UTILITIES WITHIN THE WORK AREA BEFORE COMMENCING WORK. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT (800) 642-2444 AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR DAMAGED UTILITIES.
- AT NO TIME SHALL THE CONTRACTOR UNDERTAKE TO CLOSE OFF ANY EXISTING UTILITY LINES OR OPEN VALVES OR TAKE ANY OTHER ACTION WHICH WOULD AFFECT THE OPERATION OF EXISTING WATER OR SEWER SYSTEMS WITHOUT PRIOR APPROVAL FROM THE UTILITY OWNER. APPROVAL SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE TIME THAT THE INTERRUPTION OF THE EXISTING SYSTEM IS REQUIRED. ANY INTERRUPTION OF SERVICE TO ACTIVE WATER OR SEWER SERVICES, INCLUDING FIRE HYDRANTS, WHETHER INTENTIONAL OR NOT, MUST BE KEPT TO A MINIMUM TIME PERIOD. IF SERVICE TO BUILDINGS IS TO BE OFF FOR MORE THAN FOUR HOURS, THE CONTRACTOR MUST ADVISE THE UTILITY OWNER.

SITE ACCESS

- WITHIN THE CONSTRUCTION LIMITS, EXISTING VEGETATION SHALL BE PROTECTED TO THE EXTENT FEASIBLE. ALL EXISTING TREES SHALL BE PROTECTED UNLESS SHOWN ON THE PLANS TO BE REMOVED. ANY NATIVE TREES WITHIN GRADING LIMITS SHALL BE SALVAGED FOR USE AS LWD AND RACKING. ALL TREES CONFLICTING WITH GRADING SHALL BE TRIMMED. NO GRADING SHALL TAKE PLACE WITHIN THE DRIP LINE OF TREES NOT TO BE REMOVED UNLESS OTHERWISE APPROVED.
- ALL EXTERNAL GREASE AND OIL SHALL BE PRESSURE-WASHED OFF THE EQUIPMENT PRIOR TO TRANSPORT TO THE SITE.
- THE CONTRACTOR SHALL USE ONLY DESIGNATED SPECIFIC SITES FOR STORAGE OF EQUIPMENT AND MATERIALS AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF ALL EQUIPMENT AND MATERIALS. HAUL ROUTES SHALL BE LIMITED TO THE AREAS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL DE-COMPACT AND REVEGETATE ALL HAUL ROADS AND STAGING AREAS PRIOR TO DEMOBILIZING FROM THE SITE.

ABBREVIATIONS

AC	ASPHALT CONCRETE	HORIZ	HORIZONTAL
APN	ASSESSOR'S PARCEL NUMBER	INST	INSTALL
APPROX	APPROXIMATE	LF	LINEAR FEET
BLDR	BOULDER	L	LEFT
BLVD	BOULEVARD	LONG	LONGITUDINAL
BMP	BEST MANAGEMENT PRACTICE	MIN	MINIMUM
CF	CUBIC FEET OR CURB FACE	MISC	MISCELLANEOUS
CFS	CUBIC FEET PER SECOND	N	NORTH
C	CENTERLINE	NTS	NOT TO SCALE
CLF	CONSTRUCTION LIMIT FENCE	OC	ON CENTER
CLR	CLEAR	PL	PROPERTY LINE
CO	COUNTY	PP	POWER/UTILITY POLE
CONC	CONCRETE	PRC	POINT OF REVERSE CURVATURE
CONST	CONSTRUCT	PROP	PROPOSED
CMP	CORRUGATED METAL PIPE	RD	ROAD
CT	COURT	REF	REFERENCE
CY	CUBIC YARD	ROW	RIGHT-OF-WAY
DET	DETAIL	R	RIGHT
DIAM OR Ø	DIAMETER	S	SOUTH OR SLOPE
DR	DRIVE	SD	STORM DRAIN
D/W	DRIVEWAY	SF	SQUARE FEET
E	EAST	SHT	SHEET
EA	EACH	SS	SANITARY SEWER
EC	EROSION CONTROL	ST	SEDIMENT TRAP OR STREET
EG	EXISTING GRADE	STA	STATION
ELEV	ELEVATION	TG	THALWEG
ELEC	ELECTRIC	TOB	TOP OF BANK
EX	EXISTING	TYP	TYPICAL
F	FIR	VERT	VERTICAL
FF	FILTER FENCE	W	WEST OR WATER
FG	FINISHED GRADE	WA	WASHINGTON
FH	FIRE HYDRANT	W/	WITH
FL	FLOWLINE	W/O	WITHOUT
FS	FINISH SURFACE	WSDOT	WA STATE DEPARTMENT OF TRANSPORTATION
G	GAS	FO	FIBER OPTIC CABLE
GB	GRADE BREAK		

LEGEND

*NOTE: LEGEND PROVIDED ON SHEET SUPERCEDES THIS LEGEND

EXISTING	PROPOSED
----- MAJOR CONTOUR	----- MAJOR CONTOUR
----- MINOR CONTOUR	----- MINOR CONTOUR
----- PROPERTY LINE	----- NEW CHANNEL ALIGNMENT

	LWD STRUCTURE TYPE 1
	LWD STRUCTURE TYPE 2
	LWD STRUCTURE TYPE 3

UTILITIES	
ELECTRIC	SNOHOMISH PUD, (425) 783-1000
SEWER & WATER	SNOHOMISH PUD, (425) 783-1000

HORIZONTAL AND VERTICAL CONTROL/PROJECTION

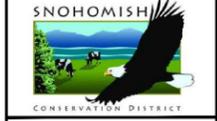
VERTICAL CONTROL IS NAVD 88; HORIZONTAL CONTROL IS WA STATE PLANE NAD 83, NORTH ZONE (US FEET).

BASE TOPOGRAPHY OBTAINED FROM THE FOLLOWING SOURCES:
 -LIDAR DATA FROM PUGET SOUND LIDAR CONSORTIUM (2014)
 -SITE TOPOGRAPHY FROM: CARDNO RTK SURVEY (2015)

DATE	REVISIONS



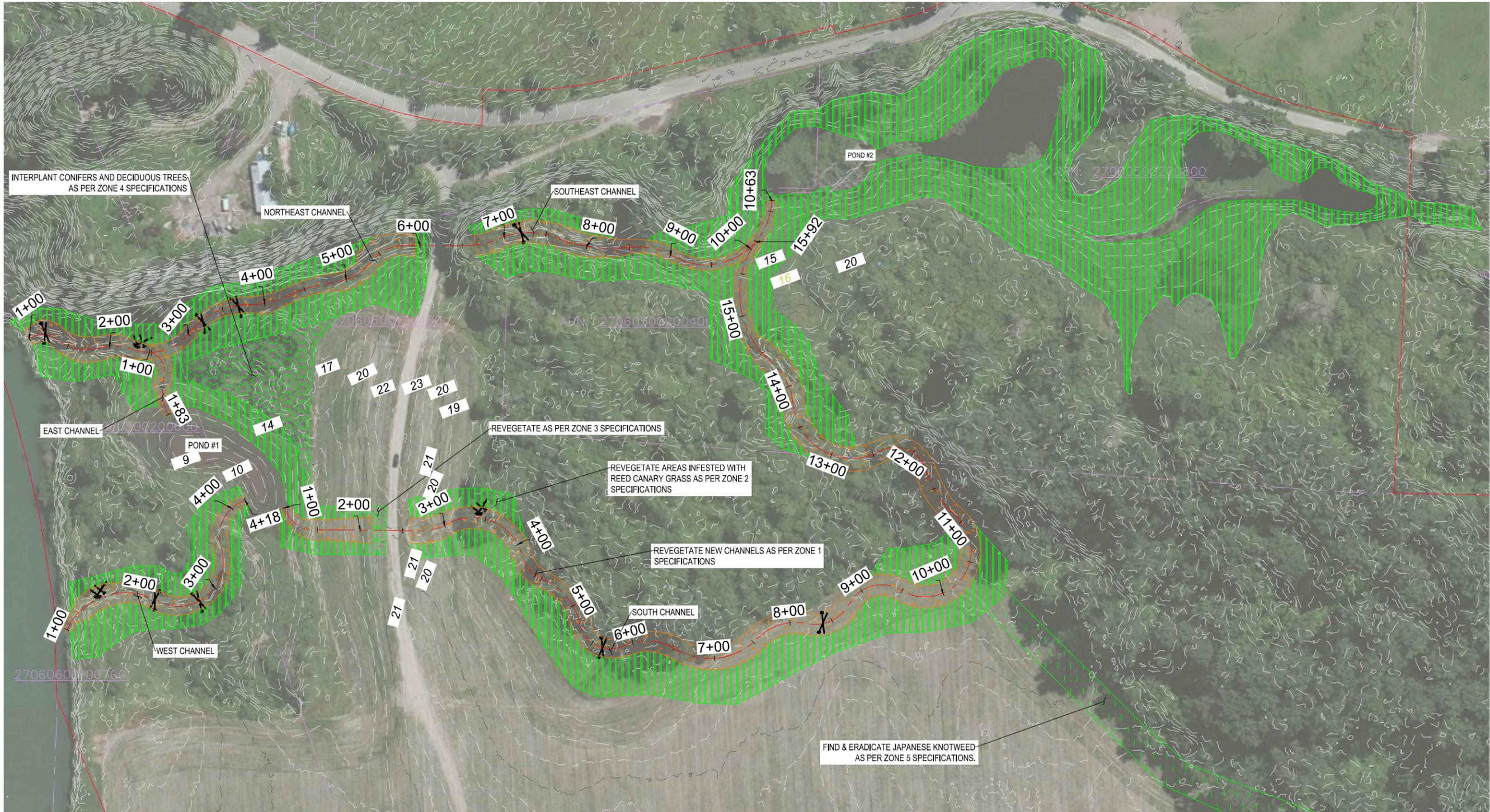
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CONSTRUCTION NOTES
 MOGA BACK-CHANNEL
 RECONNECTION PROJECT
 SNOHOMISH COUNTY, WA

DATE:	JUNE 2015
DESIGNED BY:	DE
DRAWN BY:	DE
CHECKED BY:	JB/SM
ENTRIX JOB NO.	E515004000
PLAN NO.	

PRELIMINARY DESIGN
 NOT FOR CONSTRUCTION



NATIVE REVEGETATION SPECIFICATIONS



ZONE 1: SEED NEW ALCOVE CHANNELS WITH A NATIVE MIXTURE OF EMERGENT WETLAND VEGETATION AND GRASSES INCLUDING CAREX OBNUPTA, OTHER CAREX SPECIES, ELEOCHARIS SPECIES, JUNCUS SPECIES, AND AGROSTIS SPECIES. OVERLAP ZONE 1 PLANTINGS INTO ZONE 2 AREAS.



ZONE 2: OVERLAP WITH ZONE 1 AND ZONE 3. ERADICATE AND REMOVE REED CANARY GRASS. LIVE STAKE THESE PERSISTENT WET AREAS WITH A DENSE MATRIX OF VARIOUS NATIVE SALIX SPECIES ON 2' CENTERS. INTER PLANT WETLAND SHRUBS SUCH AS LONICERA INVOLUCRATA, OEMLERIA CERASIFORMIS, PHYSCARPUS CAPITATUS, ROSA SPECIES, RUBUS SPECTABILIS, SAMBUCUS RECEMOSA. ALSO, CONSIDER SPIREA DOUGLASII FOR PERSISTENT WET AREAS IMMEDIATELY ADJACENT TO PONDS.



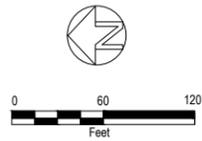
ZONE 3: OVERLAP WITH ZONE 2. PLANT NATIVE RIPARIAN SHRUBS INCLUDING ACER CIRCINATUM, OEMLERIA CERASIFORMIS, PHYSCARPUS CAPITATUS, ROSA SPECIES, RUBUS SPECTABILIS, SAMBUCUS RECEMOSA. INTER PLANT NATIVE RIPARIAN FOREST INCLUDING CONIFERS (PICEA SITCHENSIS, THUJA PLICATA, & TSUGA HETEROPHYLLA) AND DECIDUOUS TREES (ACER MACROPHYLUM, ALNUS RUBRA, AND POPULUS BALSAMIFERA).



ZONE 4: INTER PLANT NATIVE CONIFERS ON 10' TO 15' CENTERS (PICEA SITCHENSIS, THUJA PLICATA, & TSUGA HETEROPHYLLA) AND DECIDUOUS TREES (ACER MACROPHYLUM, ALNUS RUBRA, AND POPULUS BALSAMIFERA).



ZONE 5: LOCATE AND ERADICATE JAPANESE KNOTWEED. DO NOT DISTURB EXISTING NATIVE VEGETATION. CONSIDER FOLIAR APPLICATION OF HERBICIDE AT THE HEIGHT OF THE GROWING SEASON (AUGUST) USING 1% IMAZAPAYR (AQUATIC FORMULATION - HABITAT OR POLARIS) WITH 1% COMPETITOR SURFACTANT. OTHER KNOTWEED ERADICATION METHODS MAY ALSO BE SUITABLE SUCH AS STEM INJECTION.



PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

REVISIONS	DATE

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PLAN - REVEGETATION
MOGA BACK-CHANNEL RECONNECTION PROJECT
SNOHOMISH COUNTY, WA

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PLAN NO.