

PLAN NORTH

KEYNOTES

- 1 INSTALL CHAIN LINK FENCE.
- 2 INSTALL 20' DOUBLE SWING CHAIN LINK GATE.
- 3 PROPOSED STATION ROCK SURFACE, SEE SITE DETAILS.
- 4 PROPOSED WEST ACCESS ROAD, SEE SITE DETAILS.
- 5 PROPOSED EAST ACCESS ROAD, SEE SITE DETAILS.
- 6 PROPOSED BASE ON EXISTING ROAD, SEE SITE DETAILS.

PROTECTION KEYNOTES

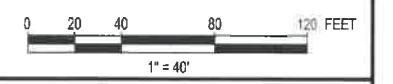
- 1 PROTECT EXISTING UNDERGROUND VAULTS.

GENERAL NOTES

- THE INFORMATION SHOWN ON THESE DRAWINGS IS PROVIDED TO BETTER ENABLE THE CONTRACTOR TO ACCURATELY ESTIMATE THE AMOUNT OF WORK REQUIRED TO BRING THE SITE TO THE ELEVATIONS SHOWN ON THE GRADING PLAN.
- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- ALL NEW CONTOURS SHOWN ON THIS DRAWING ARE FINISHED GRADE ELEVATIONS, UNLESS OTHERWISE SPECIFIED. SEE GRADING AND DRAINAGE PLAN FOR MORE DETAILS.
- CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL AMOUNT OF EARTHWORK QUANTITIES AND IS ENCOURAGED TO PERFORM ANY ADDITIONAL SURVEY WORK DEEMED NECESSARY TO COMPLETE THE WORK.
- BASIS OF BEARING WASHINGTON STATE PLANE SOUTH, NAD83 (2011)
- BASIS OF ELEVATION IS NAVD88
- SURVEY WAS PERFORMED IN NOVEMBER OF 2018 BY DAVID EVANS AND ASSOCIATES USING A LEICA GS14 GPS UNIT AND LEICA C10 HIGH DEFINITION LASER SCANNER.
- STATE PLANE COORDINATES WERE ESTABLISHED AT DEA BASE STATION POINT NO. 101 (N: 657243.5805 E: 1590825.5158 E: 2518.64, GRID, US SURVEY FEET) AND POST-PROCESSED USING NGS OPUS WITH A HORIZONTAL REFERENCE FRAME OF NAD_83 (2011)(EPOCH:2010.0000) AND A VERTICAL DATUM OF NAVD88 (COMPUTED USING GEOID12B).
- A COMBINED SCALE FACTOR OF 1.000156521 AND A -100,000 SHIFT TO BOTH THE NORTHINGS AND EASTINGS WAS APPLIED TO ACHIEVE THE GROUND COORDINATES USED IN THIS MAP.
- CONVERGENCE ANGLE AT BASE POINT NO. 101 = -00°08'41"
- UNDERGROUND UTILITIES: THIS DRAWING MAY NOT SHOW ALL UNDERGROUND UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE LOCATION OF UNDERGROUND UTILITIES ARE SHOWN AS ACCURATELY AS POSSIBLE FROM UTILITY COMPANY MARKINGS, BUT DOES NOT REFLECT THE EXACT LOCATION OF THESE UTILITIES. CALL 811 FOR UTILITY LOCATION PRIOR TO ANY EXCAVATION
- THE CONTRACTOR SHALL VERIFY THAT NO EXISTING UNDERGROUND UTILITIES EXIST IN THE CONSTRUCTION AREA PRIOR TO STARTING CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL TAKE CARE WHILE WORKING AROUND AND BELOW EXISTING UTILITIES.
- CONTRACTOR SHALL VERIFY DIMENSIONS, PROPERTY SURVEY, AND EXISTING BENCHMARKS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL LOCATE AND PROTECT EXISTING BENCHMARKS AND CONTROL POINTS THAT MAY BE LOCATED WITHIN THE AREA OF WORK.
- CONTRACTOR SHALL CLEAR, GRUB, REMOVE, AND DISPOSE OF ALL VEGETATION, DEBRIS, AND OTHER DELETERIOUS MATERIAL WITHIN THE LIMITS OF THE AREA OF WORK. STRIPPING SHALL BE A MINIMUM OF SIX (6) INCHES AND SHALL BE PLACED IN THE STOCKPILE.
- CONTRACTOR SHALL NOTIFY THE ENGINEER OF UNEXPECTED SUBSURFACE CONDITIONS OR HAZARDOUS MATERIAL ENCOUNTERED, AND DISCONTINUE WORK IN THE AFFECTED AREA UNTIL NOTIFIED TO RESUME WORK.
- IF FIELD GRADE ADJUSTMENTS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
- IF A CONFLICT EXISTS BETWEEN THESE PLANS AND THE SOILS REPORT, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION PRIOR TO CONSTRUCTION.
- ALL DISTANCES, CURVE RADII, AND ELEVATIONS SHOWN IN FEET.
- CHDPE CULVERTS SHALL BE SIZED ACCORDING TO THE PLANS. RIPRAP APRONS SHALL BE PROVIDED AT INLETS, OUTLETS, AND AROUND SIDE SLOPES AS SHOWN. MAINTAIN MINIMUM 12" COVER AT CULVERT LOCATIONS.
- SEE DRAWING C2-1 FOR EROSION CONTROL PLAN AND C8-1 AND C8-2 FOR EROSION CONTROL DETAILS.
- CONTRACTOR IS RESPONSIBLE TO RE-SEED AND ESTABLISH VEGETATION IN NATIVE AREAS DISTURBED OUTSIDE THE GRADING LIMITS.

OVERALL SITE PLAN
SCALE: 1"=40'

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LEGEND

	2535	EXISTING CONTOUR
	OE	EXISTING CHAIN LINK FENCE
	OE	EXISTING OVERHEAD ELECTRIC
		APPROXIMATE EXISTING TOP ROCK AREA
	2535	PROPOSED CONTOUR
	x	PROPOSED CHAIN LINK FENCE
		PROPOSED 8" FLEXIBLE BASE
		PROPOSED 6" FLEXIBLE BASE
		PROPOSED 4" FLEXIBLE BASE
	FG	FINISHED GRADE
	SW	SITE WORK GRADE

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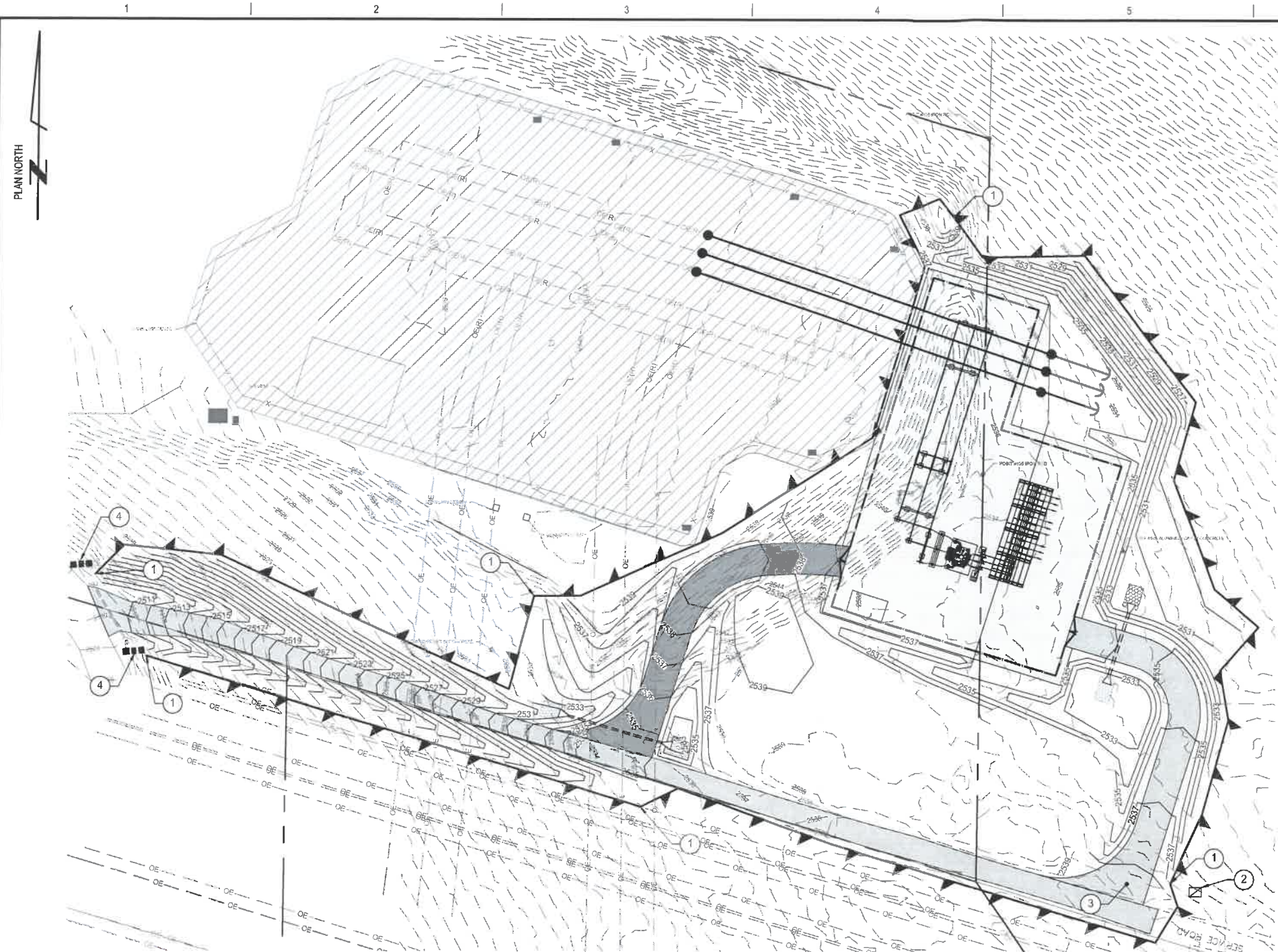
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DSGN	JRM	DEC 2020
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CKD	BHR	DEC 2021
SCALE:		1"=40'
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KITTITAS PUD
BETTAS ROAD SUBSTATION
OVERALL SITE PLAN

JOB NUMBER	REV
162484	
DRAWING NUMBER	
C1-1	

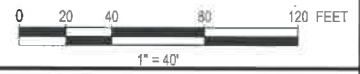


- EROSION CONTROL KEYNOTES**
- ① INSTALL SILT FENCE, SEE EROSION CONTROL DETAILS, C8-1
 - ② INSTALL TEMPORARY CONCRETE WASHOUT FACILITY, CONTRACTOR TO DETERMINE BEST LOCATION, SEE EROSION CONTROL DETAILS, C8-2
 - ③ INSTALL TEMPORARY STABILIZED CONSTRUCTION ENTRANCE, CONTRACTOR TO DETERMINE BEST LOCATION, SEE EROSION CONTROL DETAILS, C8-1
 - ④ INSTALL TEMPORARY STRAW BALE CULVERT PROTECTION, SEE EROSION CONTROL DETAILS, C8-2

- EROSION CONTROL NOTES**
1. PRIOR TO ANY GRADING, STRIPPING, EXCAVATING, FILLING OR ANY OTHER DISTURBANCE OF THE NATURAL GROUND COVER, THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES. THE CONTRACTOR SHALL MAINTAIN THESE DEVICES THROUGHOUT THE DURATION OF THE PROJECT AND UNTIL PERMANENT STABILIZATION IS ESTABLISHED.
 2. SILT FENCE SHALL BE CLEANED AND REPAIRED WHEN SILT BUILD-UP REACHES 1/3 SILT FENCE HEIGHT.
 3. CLEARING AND GRUBBING WORK SHALL COMPLY WITH THE WASHINGTON STATE DEPARTMENT OF ECOLOGY LATEST EDITION OF STANDARDS AND SPECIFICATIONS.
 4. NO VEGETATION OR CONSTRUCTION DEBRIS SHALL BE BURIED ON SITE AND NO BURNING PITS SHALL BE PLACED ON SITE.
 5. ALL DISTURBED AREAS WHERE ACTIVITIES ARE TEMPORALLY CEASED FOR 7 DAYS OR MORE SHALL ESTABLISH INTERIM STABILIZATION BY SEEDING, SODDING, MULCHING, COVERING OR BY OTHER EQUIVALENT EROSION CONTROL MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
 6. STOCKPILES SHALL BE LOCATED AWAY FROM SLOPES AND TRAFFIC ROUTES AND BE TEMPORARILY SEEDED AS SOON AS POSSIBLE, NO MORE THAN 30 WORKING DAYS OR 120 CALENDAR DAYS AFTER FORMATION OF THE STOCKPILE. STRAW WATTLES SHALL BE PLACED APPROPRIATELY AROUND THE STOCKPILE TO CONTROL EROSION.
 7. THE SITE SHALL HAVE GRADED ROADS AND ACCESS DRIVES TO PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH TO PREVENT SEDIMENT FROM BEING TRACKED ON TO PUBLIC ROADWAYS. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED. BULK CLEARING OF ACCUMULATED SEDIMENT SHALL BE RETURNED TO THE POINT OF LIKELY ORIGIN OR OTHER SUITABLE LOCATION BEFORE THE END OF EACH WORK DAY. CONSTRUCTION ENTRANCES SHALL BE ROCKED PRIOR TO ANY OTHER SITE WORK.
 8. EROSION AND SEDIMENTATION CONTROLS AND SEEDING SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY LATEST EDITION OF STANDARDS AND SPECIFICATIONS.
 9. THE EROSION CONTROL PLAN EXHIBITS GENERAL EROSION CONTROL LOCATIONS. ACTUAL LOCATIONS WILL DEPEND ON ACTUAL EXCAVATION OR FILL LIMITS AND DEMOLITION AND CONSTRUCTION SEQUENCING.
 10. ALL AREAS DISTURBED BY CONSTRUCTION SHOULD BE STABILIZED PRIOR TO COMPLETION.

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EROSION CONTROL PLAN
 SCALE: 1"=40'

- LEGEND**
- 2535 — EXISTING CONTOUR
 - x- EXISTING CHAIN LINK FENCE
 - OE EXISTING OVERHEAD ELECTRIC
 - APPROXIMATE EXISTING TOP ROCK AREA
 - 2535 — PROPOSED CONTOUR
 - x- PROPOSED CHAIN LINK FENCE
 - PROPOSED 8" FLEXIBLE BASE
 - PROPOSED 6" FLEXIBLE BASE
 - PROPOSED 4" FLEXIBLE BASE
 - FG FINISHED GRADE
 - SW SITE WORK GRADE
 - SILT FENCE
 - CONCRETE WASHOUT FACILITY
 - STRAW BALE

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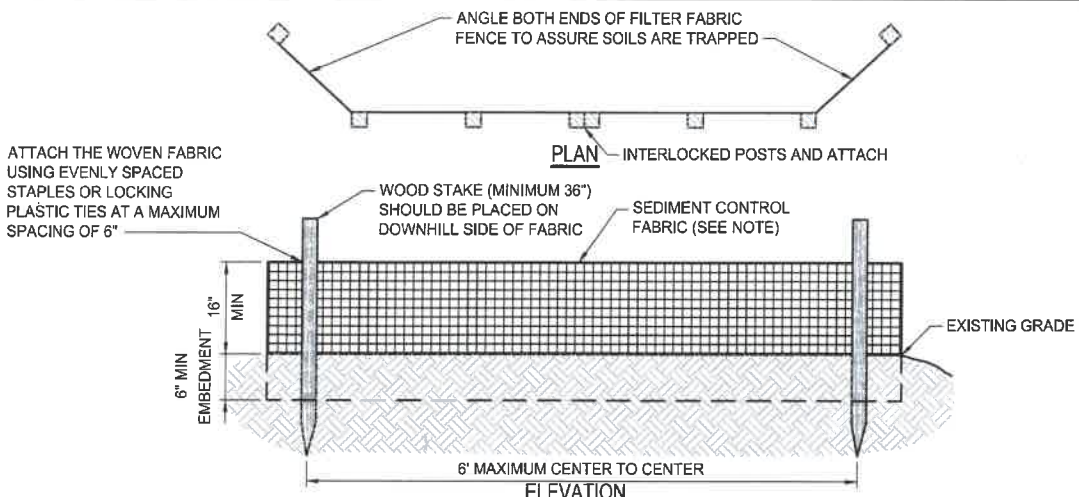
DSGN	JRM	JAN 2021
DRN	BRG	JAN 2021
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SCALE: 1"=40'		
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KITITAS PUD
 BETTAS ROAD SUBSTATION
 EROSION CONTROL PLAN

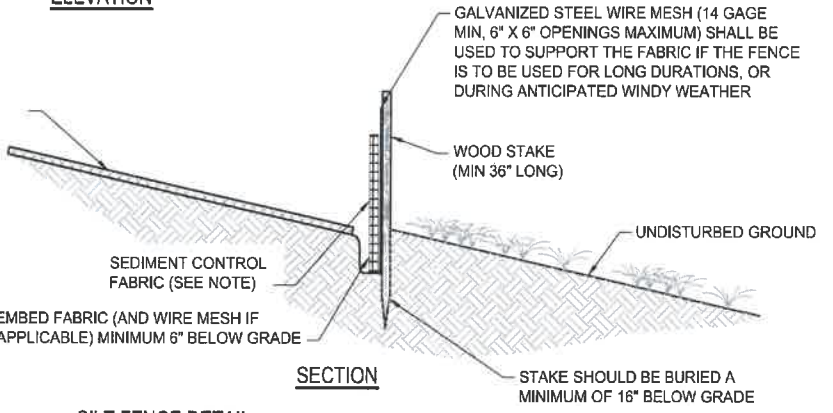
JOB NUMBER 162484
 DRAWING NUMBER C2-1



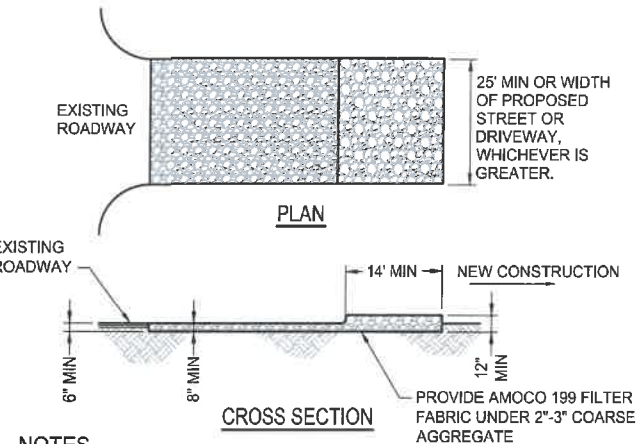
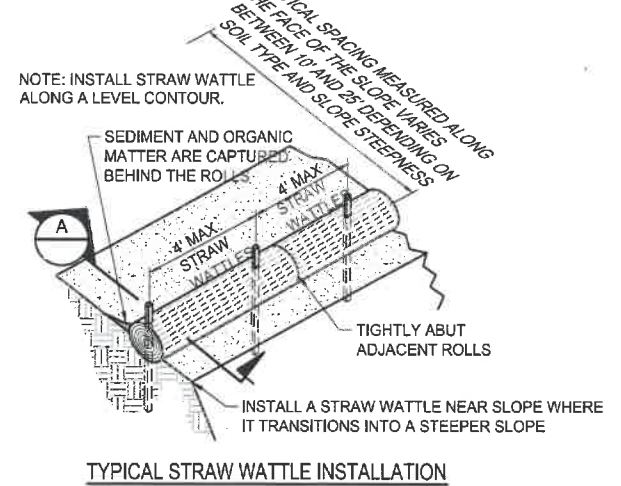
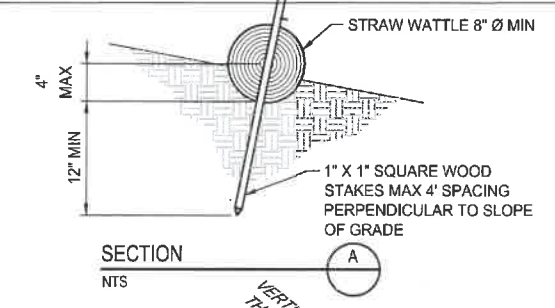


INSTALL LAYER OF STRAW OR APPROVED EROSION CONTROL MATTING (INSTALLED PER MANUFACTURER) ON ALL DISTURBED SLOPES

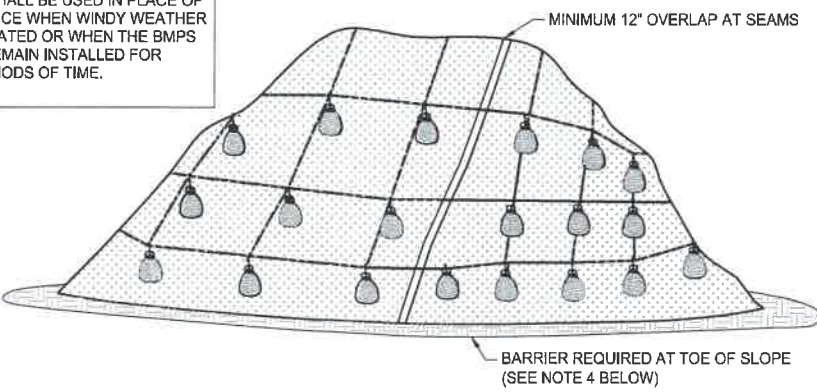
"SEDIMENT CONTROL FABRIC"
 FABRIC SHALL BE USED FOR INSTALLATIONS OF SHORT DURATION. THE FABRIC IS CUT ON SITE TO THE DESIRED WIDTH, UNROLLED ALONG THE LENGTH OF THE BARRIER AND DRAPED OVER THE BARRIER. THE FABRIC TOE IS SECURED WITH ROCKS OR DIRT AND THE FABRIC COVERING THE BARRIER IS SECURED TO THE BARRIER WITH TWINE, STAPLES, OR SIMILAR DEVICES. AFTER THE CONSTRUCTION AREA IS STABILIZED AND EROSION ACTIVITY CURTAILED, THE SEDIMENT BARRIERS ARE REMOVED AND THE CONTAINED SEDIMENT IS LEVELED, SEEDED, AND MULCHED. SPECIAL PROTECTION OF THE SEED BED MAY BE NECESSARY IF THE LAYERS ARE OVER A FOOT THICK. FABRIC SHALL MEET THE FOLLOWING TCEQ REQUIREMENTS: POLYETHYLENE POLYPROPYLENE, OR POLYAMIDE WOVEN FABRIC, MINIMUM UNIT WEIGHT OF 4.5 OZ/YD, MULLEN BURST STRENGTH EXCEEDING 190 LB/IN², ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF US SIEVE NO 30.



NOTE:
 AS AN ALTERNATIVE A STRAW WATTLE SHALL BE USED IN PLACE OF A SILT FENCE WHEN WINDY WEATHER IS ANTICIPATED OR WHEN THE BMPs ARE TO REMAIN INSTALLED FOR LONG PERIODS OF TIME.



- NOTES**
- ENTRANCE(S) SHALL BE LOCATED TO PROVIDE MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.
 - TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS IS TO BE PROVIDED.
 - MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOP DRESSING WITH STONE WILL BE NECESSARY. CONTRACTOR SHALL MAINTAIN AS NECESSARY.
 - ANY MATERIAL WHICH STILL MAKES IT ONTO THE ROAD MUST BE CLEANED UP IMMEDIATELY.
 - FREQUENT CHECKS OF THE ENTRANCE(S) AND TIMELY MAINTENANCE SHALL BE PROVIDED.
 - NOTES ARE APPLICABLE AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED.



- NOTES**
- MINIMUM 12" OVERLAP OF ALL SEAMS REQUIRED.
 - BARRIER REQUIRED AT TOE OF STOCK PILE.
 - COVERING MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 18' GRID SPACING IN ALL DIRECTIONS.
 - BARRIERS SHALL BE CONSTRUCTED WITH SEDIMENT FENCES, MULCH BERMS, CLIPPINGS, STRAW WATTLES, OR OTHER APPROVED MATERIALS.

EROSION CONTROL NOTES

- CONTROLLING SEDIMENT TRANSPORT AND PREVENTING AND/OR CORRECTING PROBLEMS ASSOCIATED WITH THE EROSION AND RUNOFF PROCESSES WHICH COULD OCCUR BOTH DURING AND AFTER PROJECT CONSTRUCTION WILL BE CLOSELY MONITORED. PERIODIC MAINTENANCE AND INSPECTION OF SEDIMENT CONTROL DEVICES WILL BE SCHEDULED.
- THE CONTRACTOR SHALL COMPLY WITH KITTITAS COUNTY AND OTHER GOVERNING AGENCIES FOR TEMPORARY EROSION CONTROL MEASURES.
- SHOULD SILT LEAVE THE SITE OR EROSION OCCUR, THE CONTRACTOR SHALL BE RESPONSIBLE AND SHOULD TAKE CORRECTIVE ACTION AND REPAIR ANY DAMAGE CAUSED BY THE SILT OR EROSION IMMEDIATELY. ALL COSTS ASSOCIATED WITH THE PREPARATION, MODIFICATION AND APPROVAL OF THE PLAN WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. BEFORE CONSTRUCTION BEGINS, THE LIMITS OF DISTURBANCE BOUNDARY SHALL BE FLAGGED ON SITE AND APPROVED BY RCEC. UNDER NO CIRCUMSTANCES SHALL SITE DISTURBANCE OCCUR OUTSIDE THE DESIGNATED AREAS AT ANY TIME DURING CONSTRUCTION.
- EXCAVATION AND EMBANKMENT OPERATIONS SHALL PROCEED IN SUCH A MANNER SO THAT FINISHING OF SLOPES, INCLUDING REVEGETATION, SHALL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER ROUGH GRADING. ALL SLOPES 2:1 OR FLATTER SHALL BE SCARIFIED WITH HEAVY EQUIPMENT, LEAVING TRACKS PERPENDICULAR TO THE SLOPE. THE TOPS OF ALL CUT SLOPES IN SOIL SHALL BE ROUNDED FOR A HORIZONTAL DISTANCE OF THREE FEET BEYOND THE CATCH POINT. SLOPE ROUNDDING SHALL OCCUR AS THE SLOPE IS BEING BROUGHT DOWN. THE OVERALL SHAPE, HEIGHT AND GRADE OF ANY CUT AND/OR FILL SLOPE SHALL BE DEVELOPED IN CONCERT WITH THE EXISTING NATURAL CONTOURS, SCALE AND VEGETATION OF NATURAL TERRAIN.
- STABILIZATION PRACTICES MAY INCLUDE, BUT NOT BE LIMITED TO TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, GEOTEXTILES, SOD STABILIZATION, VEGETATIVE BUFFER STRIPS, PRESERVATION OF NATURAL VEGETATION, AND OTHER APPROPRIATE MEASURES. USE OF IMPERVIOUS SURFACES FOR STABILIZATION SHALL BE AVOIDED. EXCEPT AS PROVIDED BELOW, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE IN DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 15 DAYS AFTER ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
 - WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 15TH DAY AFTER CONSTRUCTION ACTIVITY PERMANENTLY CEASES IS PRECLUDED BY DEEP SNOW OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL.
 - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING WILL RESUME WITHIN 15 WORKING DAYS, TEMPORARY STABILIZATION MEASURES NEED NOT BE INITIATED ON THAT PORTION OF THE SITE.
- SPECIFICALLY OUTLINED DISTURBED AREAS, BOTH ON AND OFF-SITE SHALL BE REVEGETATED. THESE AREAS SHALL INCLUDE, BUT NOT BE LIMITED TO ALL UNSURFACED AREAS WITHIN THE FLAGGED LIMITS OF DISTURBANCE, STAGING AND STORAGE AREAS, MATERIAL WASTE AREAS, UNDERGROUND UTILITY CONSTRUCTION AREAS, BENCHED AREAS, AND TEMPORARY OR EXISTING ACCESS ROADS USED FOR CONSTRUCTION ACTIVITIES. CUT AND FILL SLOPES OVER 3:1 REQUIRE THE PLACEMENT OF EROSION CONTROL/REVEGETATION MATTING. SLOPES LESS THAN 3:1 MAY BE SPRAYED WITH TACKIFIER.
- CONTROLLED OUTLETS SHALL DIRECT COLLECTED RUNOFF THROUGH SILT FENCES OR STRAW BALES.
- TYPICAL FUGITIVE DUST SHALL BE CONTROLLED BY WATERING AND/OR CHEMICAL STABILIZATION, PROVIDING VEGETATIVE OR SYNTHETIC COVER AND WIND BREAKS CONSISTENT WITH RUSK COUNTY AND THE STATE OF TEXAS REQUIREMENTS.

REVEGETATION NOTES

- RECOMMENDED SEEDING MIXTURES MUST BE DONE ON A SITE SPECIFIC BASIS WHICH ACCOUNTS FOR THE FOLLOWING: SOIL PROPERTIES, CLIMATE, TOPOGRAPHIC POSITION AND FEASIBILITY.
- VEGETATIVE PLANTING SHALL BE DONE WHERE DEEMED NECESSARY TO HASTEN THE RETURN OF PRE-EXISTING SITE CHARACTERISTICS AND ON ANY FINISHED SLOPE WHICH WILL REMAIN UNDISTURBED FOR AT LEAST 10 YEARS.
- ALL DISTURBED OPEN SPACE AREAS, AND CUT AND FILL AREAS, SHALL RECEIVE AN ACCEPTABLE SEED MIX.
- SEED MIX SHALL BE APPLIED AT A RATE SO THAT GERMINATION AND SUBSEQUENT COVERAGE REACHES 80 PERCENT IN A REPRESENTATIVE 10' x 10' AREA. IF COVERAGE DOES NOT REACH 80 PERCENT, RESEEDING MUST OCCUR.
- APPROPRIATE FERTILIZER SHALL BE APPLIED TO ALL SLOPES RECEIVING SEED. APPLICATION RATES OF THE FERTILIZER SHALL BE STRICTLY ADHERED TO.

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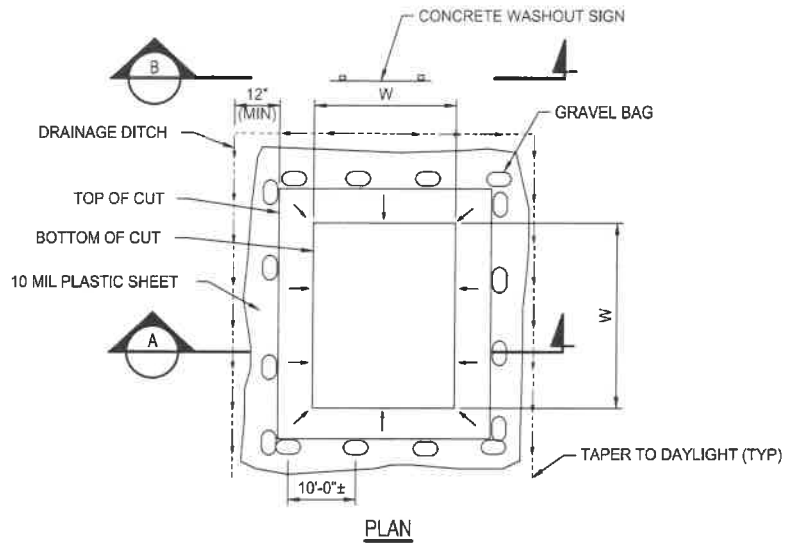
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CG-1.DWG

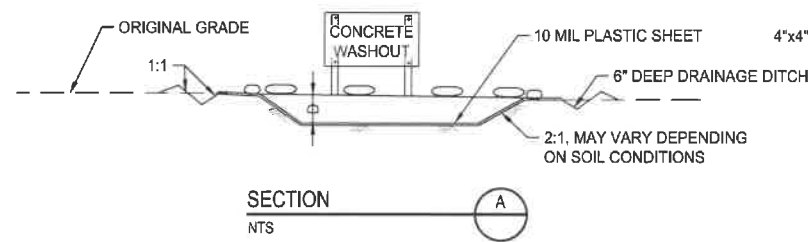


(APPROX.) VOLUME OF SPOILS	(MIN) WIDTH (W)	DEPTH (D)
5 CY OR LESS	3'-0"	12"
5 TO 20 CY	10'-0"	12"
* 20 CY OR MORE	15'-0"	18"

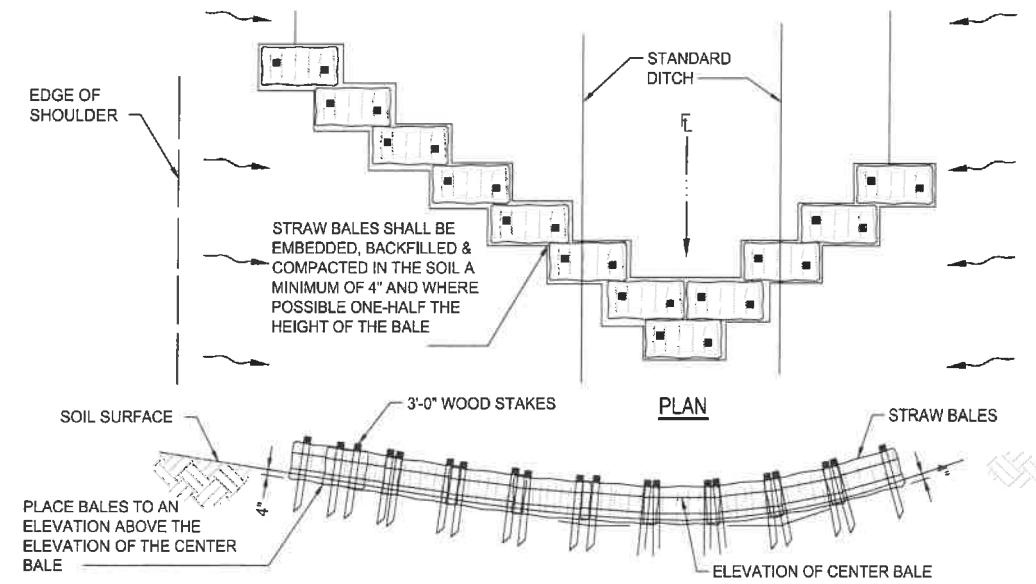
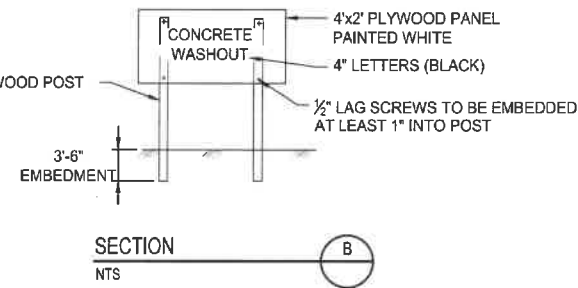
* UTILIZE FOR SITE

NOTES

1. ULTIMATE WASHOUT SIZE DETERMINED BY AMOUNT OF CONCRETE REQUIRED FOR PROJECT AREA AND/OR POUR LOCATION.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 20' OF THE TEMPORARY CONCRETE WASHOUT.



TYPICAL TEMPORARY CONCRETE WASHOUT FACILITY DETAIL
NTS



TYPICAL STRAW BALE CHECK DAM DETAIL
NTS

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