

# City of Camas, Washington WRG TRAIL OVERLOOK TERRACE

## PROJECT INFORMATION

OWNER: CITY OF CAMAS  
616 NE 4TH AVENUE  
CAMAS, WA 98607  
ANITA ASHTON, PROJECT ENGINEER  
(360) 817-7231

LANDSCAPE ARCHITECT: DAVID HAYNES  
OTAK, INC.  
700 WASHINGTON STREET  
SUITE 401  
VANCOUVER, WA 98660  
(360) 737-9613

SURVEYOR: GARY PAUL  
OTAK, INC.  
808 SW THIRD AVENUE, SUITE 300  
PORTLAND, OR 97204  
(503) 287-6825

## SHEET INDEX

L1.0	COVER
L1.1	SITE PLAN
L2.1	DETAIL PLAN
L2.2	SECTION DETAIL
L2.3	SITE DEVELOPMENT DETAILS

\*WILLIAMS PIPELINE CONTACT shall have a representative on site during all construction activities near the existing pipeline easement. Contact: GARY STICKNEY 360-608-9886.

## CITY OFFICIALS

SCOTT HIGGINS  
MAYOR

TIM HAZEN      MELISSA SMITH      LINDA DIETZMAN

STEVE HOGAN      GREG ANDERSON      SHANNON TURK      DON CHANEY  
CITY COUNCIL

STEVE WALL      PETE CAPELL      JAMES CAROTHERS  
PUBLIC WORKS DIRECTOR      CITY ADMINISTRATOR      CITY ENGINEER

CITY OF CAMAS			
<i>Jan L. Cavatton</i> 9/1/15		DATE	
ENGINEERING MANAGER			
REVISION NO.	SHEETS AFFECTED	INITIAL APPROVAL	DATE

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HanmiGlobe Partner  
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Phone: (360) 737-9613  
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CAMAS PROJECT NUMBER P-893	
STATUS	PAGE
<input type="checkbox"/> DRAFT <input checked="" type="checkbox"/> CONSTRUCTION <input type="checkbox"/> AS-BUILT	1 OF 5
CAMAS DRAWING NUMBER <b>L1.0</b>	
CAMAS CATALOG NUMBER	

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DESIGN DATE:	AS-BUILT DATE:	HORIZONTAL:	VERTICAL:	DESIGNED BY:	APPROVED BY:	PROJ. ENGR.:
		AS SHOWN	AS SHOWN	DDH	DLS	GMM

**City of Camas**  
WASHINGTON  
616 NE 4TH AVENUE  
CAMAS, WA 98607  
PH: (360) 834-3451

PUBLIC WORKS  
ENGINEERING DEPARTMENT  
WRG TRAIL OVERLOOK TERRACE  
COVER

STATE OF WASHINGTON  
REGISTERED LANDSCAPE ARCHITECT  
*David D. Haynes*  
DAVID D. HAYNES  
CERTIFICATE NO. 924

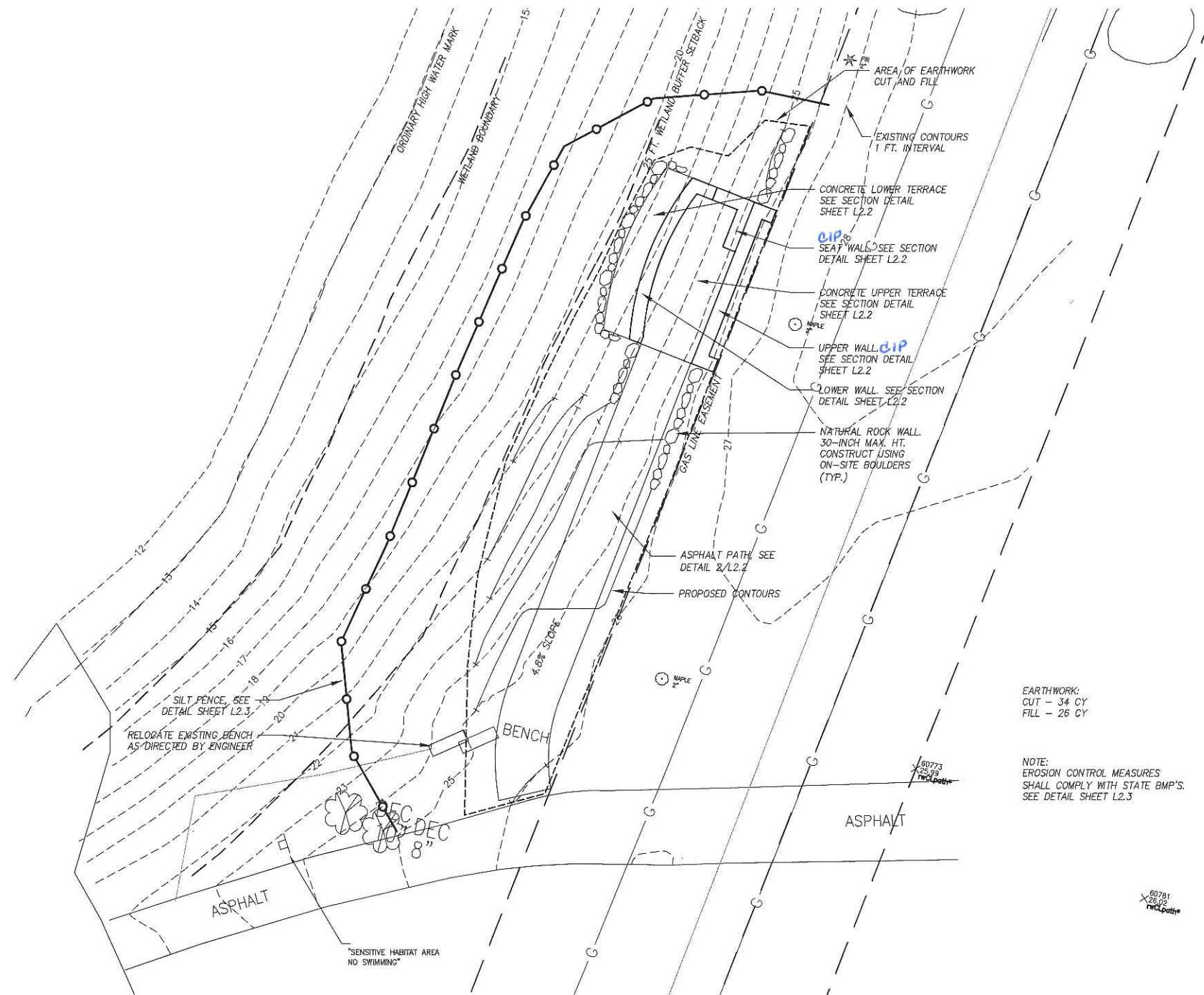


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 C700Bx232  
 K-Plan  
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 S13700B190  
 GIS-2ftcont  
 --Images--  
 17051--sketch  
 Aerial 1

**GRADING NOTES:**

1. ALL GRADING SHALL CONFORM TO THE 2014 EDITION OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AND THE CITY OF CAMAS DESIGN STANDARDS MANUAL.
2. THE LIMITS OF CLEARING SHALL BE FLAGGED PRIOR TO CLEARING AND GRUBBING OF THE SITE.
3. ANY EXISTING TREES TO REMAIN WITHIN THE CLEARING LIMITS SHALL BE MARKED AND PROTECTED FROM DAMAGE.
4. PRIOR TO ANY FILL PLACEMENT, ALL AREAS WHICH WILL RECEIVE STRUCTURAL FILL SHALL BE EXCAVATED TO FIRM, NON-ORGANIC, UNDISTURBED NATIVE GROUND. THE STRIPPED AREAS SHALL BE OBSERVED AND ACCEPTED BY THE GEOTECHNICAL ENGINEER AND THE CITY OF CAMAS INSPECTOR.
5. ALL RIGHT-OF-WAY FILLS SHALL MEET 95% OF AASHTO T-180 COMPACTION.
6. FILLS SHALL BE INSTALLED IN VERTICAL LIFTS NOT EXCEEDING 8 INCHES IN THICKNESS AND SHALL BE COMPACTED AS PREVIOUSLY NOTED.
7. FILLS PLACED ON SLOPES EXCEEDING 5H:1V SHALL BE KEYED AND BENCHED, GEOTECHNICAL APPROVAL REQUIRED PRIOR TO ANY FILL PLACEMENT.
8. ALL SURFACES SHALL BE GRADED SMOOTH AND BE FREE OF IRREGULARITIES THAT MIGHT ACCUMULATE SURFACE WATER.
9. ALL CUT AND FILL SLOPES SHALL NOT EXCEED 2:1 SLOPES.
10. ANY EXCESS MATERIAL NOT REQUIRED TO MEET THE GRADES SHOWN ON THE PLANS SHALL BE HAULED FROM THE SITE TO A CONTRACTOR PROVIDED WASTE SITE. IF WASTE SITE IS WITHIN CITY LIMITS, A GRADING PERMIT MAY BE REQUIRED.
11. ALL EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED BY SUITABLE APPLICATION OF EROSION CONTROL BMP'S.
12. ALL SURFACES REQUIRING VEGETATION SHALL BE ROUGHENED PRIOR TO SEEDING (I.E. WHEEL TRACKED PERPENDICULAR TO SURFACE FLOW TO REDUCE EROSION AND HELP VEGETATION).
13. FINAL GEOTECHNICAL SUMMARY REPORT, INCLUDING ALL COMPACTION TESTING RESULTS, SHALL BE SUBMITTED UPON COMPLETION OF SITE GRADING WORK.

DOES NOT APPLY



EARTHWORK:  
 CUT - 34 CY  
 FILL - 26 CY

NOTE:  
 EROSION CONTROL MEASURES  
 SHALL COMPLY WITH STATE BMP'S.  
 SEE DETAIL SHEET L2.3

**EROSION CONTROL NOTES**

1. ONLY CONSTRUCTION VEHICLES ARE ALLOWED OFF-STREET AND MUST BE UTILIZED ONLY ON GRAVEL CONSTRUCTION ACCESS AREAS.
2. WORKERS' PERSONAL VEHICLES SHALL BE PARKED ON ADJACENT STREETS OR OTHER APPROVED AREAS.
3. ALL UNWORKED AND EXPOSED SOILS MUST BE STABILIZED BY SEEDING, COVERING, OR MULCHING FROM THE CURB LINE TO AT LEAST TEN FEET FROM THE BUILDING ENVELOPE.
4. GRAVEL DRIVES USED AS SITE ENTRANCES SHALL BE CONSTRUCTED OF MINIMUM TWO-INCH DIAMETER GRAVEL AND NO FINER MATERIALS ARE ALLOWED.
5. CONSTRUCTION MATERIALS SUCH AS LUMBER SHALL BE DELIVERED AND STORED ON DESIGNATED LOCATIONS WHICH ARE STABILIZED AND PROTECTED FROM EROSION.
6. EROSION CONTROL MEASURES SHALL BE REVIEWED AND INSPECTED AT THE END OF EACH DAY. IN NONWORK PERIODS, INSPECTIONS SHALL TAKE PLACE AFTER EACH RAINFALL OR AT LEAST ONCE A WEEK, WHICHEVER IS MORE FREQUENT. NEEDED CORRECTIONS SHALL BE MADE IMMEDIATELY.
7. SEE SHEET L2.3 FOR ADDITIONAL EROSION CONTROL NOTES AND DETAILS.



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 SITE PLAN

STATE OF WASHINGTON  
 REGISTERED  
 LANDSCAPE ARCHITECT  
 DAVID D. HAYNES  
 CERTIFICATE NO. 824

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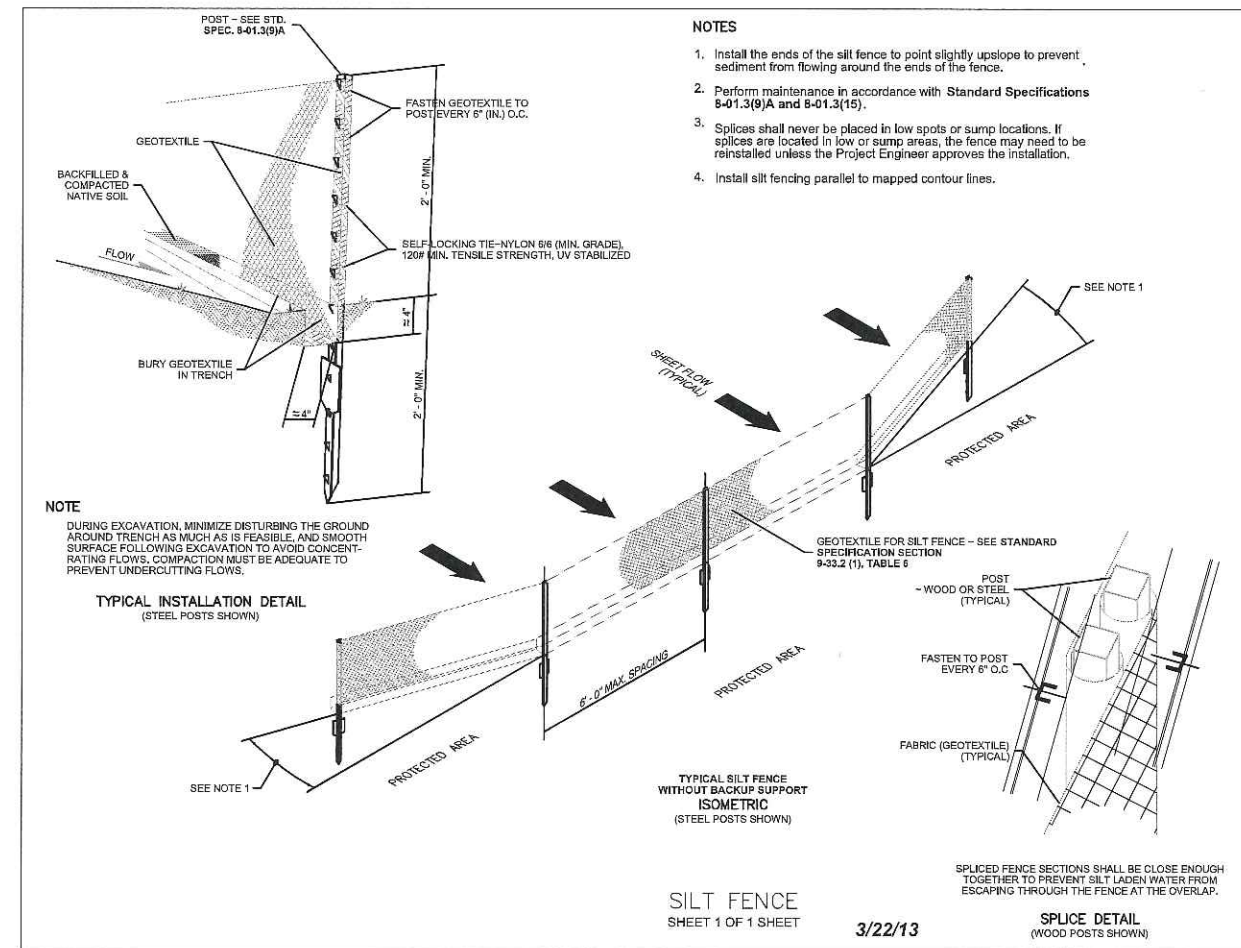








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 Aerial 1



**EROSION/SEDIMENT CONTROL NOTES:**

1. THE EROSION/SEDIMENT CONTROL (ESC) PLAN AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS TO BE UTILIZED AS A GUIDE TO CONTROL THE TRANSPORT OF LOOSE SOILS TO THE PROPERTY OUTSIDE OF THE CONSTRUCTION AREA AND AROUND THE CONSTRUCTION SITE. THE ESC MEASURES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DOES NOT LEAVE THE SITE.
2. THE IMPLEMENTATION OF THE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THE ESC MEASURES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND PERMANENT VEGETATION/LANDSCAPING IS ESTABLISHED.
3. THE CONTRACTORS SHALL BE RESPONSIBLE TO FAMILIARIZE THEMSELVES WITH THE 2005 EDITION OF THE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, VOL. II AND THE CITY OF CAMAS MUNICIPAL CODE 14.06 (2011).
4. ALL EROSION/SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND IN WORKING CONDITION PRIOR TO DISTURBING AND EXPOSING ANY SOIL SURFACES (I.E. CONSTRUCTION ENTRANCES, FILTER FABRIC SEDIMENT BARRIERS, AND SEDIMENTATION TRAPS) AND MAINTAINED FOR THE DURATION OF THE PROJECT. TRAPPED SEDIMENT IN EXCESS OF 1 FOOT SHALL BE REMOVED OR STABILIZED ON-SITE. DISTURBED SOIL AREAS RESULTING FROM VEGETATION REMOVAL SHALL BE PERMANENTLY STABILIZED. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
5. TO MINIMIZE EROSION AND SEDIMENTATION TRANSPORTATION, EARTHWORK SHALL NOT BE PERFORMED WHILE SOILS ARE IN AN UNSTABLE STATE DUE TO PRECIPITATION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE CLEARING LIMITS AND/OR ANY EASEMENTS, SENSITIVE OR CRITICAL AREAS, AND THEIR BUFFERS, TREES, AND DRAINAGE COURSES FLAGGED PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. FLAGGING LIMITS ARE TO BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.

7. REMOVE ONLY THOSE TREES AND SHRUBS THAT NEED TO BE REMOVED FOR THE CONSTRUCTION OF ROADS, SIDEWALKS, UTILITIES, AND STORMWATER FACILITIES.
8. ALL EXISTING AND NEWLY CONSTRUCTED ROAD CATCH BASINS AND CURB INLETS AFFECTED BY CONSTRUCTION SHALL BE PROTECTED AGAINST SEDIMENT DEPOSITS. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED 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.
9. ALL POLLUTANTS THAT OCCUR ON-SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER SYSTEM.
10. ALL DISTURBED SOIL SURFACES ARE TO BE STABILIZED BY A SUITABLE APPLICATION OF "BEST MANAGEMENT PRACTICES" (BMP'S). DURING THE PERIOD OF OCTOBER 1 THROUGH JULY 5 DISTURBED SOILS MAY REMAIN UNSTABILIZED FOR UP TO TWO DAYS WHEN NOT BEING WORKED. FROM JULY 5 THROUGH OCTOBER 1, DISTURBED SOILS MAY REMAIN UNSTABILIZED FOR UP TO 7 DAYS WHEN NOT BEING WORKED. STABILIZATION OF DISTURBED SOIL AREAS MAY CONSIST OF HYDROSEEDING, HAND-SEEDING AND MULCHING, PLACEMENT OF EROSION CONTROL BLANKETS OR PLASTIC. ALL SEEDED AREAS ARE TO BE FERTILIZED, WATERED, AND MAINTAINED TO ENSURE THAT THE GROWTH OF VEGETATION OCCURS AS SOON AS POSSIBLE.
11. ALL TEMPORARY SEDIMENT AND EROSION CONTROL BMP'S SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMP'S ARE NO LONGER NEEDED.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR POLICING THE JOB SITE DAILY AND MAINTAINING THE EROSION/SEDIMENT CONTROL MEASURES THROUGHOUT ALL PHASES OF CONSTRUCTION. AN INSPECTION LOG SHALL BE KEPT AND MADE AVAILABLE TO THE CITY OF CAMAS. THE POLICING AND MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO:
  - VERIFYING THAT ALL AREAS ARE GRADED SUCH THAT ALL RUNOFF IS DIRECTED TO A SEDIMENTATION DEVICE BEFORE DISCHARGE TO SURFACE.
  - REMOVAL OF TRAPPED SILT AT SILT BARRIERS, SILT TRAPS, OR POINTS OF ACCUMULATION.
  - ADDITIONAL PROTECTIVE MEASURES DUE TO JOB SITE OR WEATHER CONDITIONS AS REQUIRED BY THE CITY OF CAMAS.
  - MONITORING OF VEHICLES LEAVING THE SITE TO MINIMIZE TRANSMISSION OF LOOSE SOILS TO THE PUBLIC ROADWAYS.
  - VERIFY THAT ALL PROPERTIES ADJACENT TO THE PROJECT SITE ARE PROTECTED FROM SEDIMENTATION DEPOSITION. THIS MAY BE ACCOMPLISHED BY INSTALLING PERIMETER CONTROLS SUCH AS SEDIMENTATION BARRIERS, FILTERS OR DIKES, SEDIMENTATION BASINS/TRAPS, OR BY A COMBINATION OF SUCH MEASURES.
13. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES SHALL BE STABILIZED IN ACCORDANCE WITH EROSION/SEDIMENT CONTROL NOTE 10.
14. THE ESC MEASURES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 24 HOURS FOLLOWING ANY STORM EVENT.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING UNDERGROUND UTILITIES AS SPECIFIED BELOW:
  - WHERE FEASIBLE, NO MORE THAN 500 FEET OF TRENCH SHALL BE OPEN AT ONE TIME.
  - WHERE CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS, EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
  - TRENCH DE-WATER DEVICES SHALL DISCHARGE INTO A SEDIMENT TRAP OR SEDIMENT POND.
16. SUGGESTED STANDARD SEED MIXTURE FOR THOSE AREAS WHERE A TEMPORARY VEGETATIVE COVER IS REQUIRED:

SEED VARIETY	% WEIGHT	% PURITY	% GERMINATION
CHEWINGS OR ANNUAL BLUE GRASS	40	98	90
(FESTUCA RUBRA VAR. COMMUTATA OR POA ANNA)			
PERENNIAL RYE	50	98	90
(LOLIUM PERENNE)			
REDFOP OR COLONIAL BENTGRASS	5	92	85
(AGROSTIS ALBA OR AGROSTIS TENUIIS)			
WHITE DUTCH CLOVER	5	98	90
(TRIFOLIUM REPENS)			

\*APPLICATION RATE OF 120 LBS/ACRE AND COVERED WITH STRAW OR MULCH

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