

GENERAL CONSTRUCTION NOTES:

- 1. THE ENGINEER HAS ATTEMPTED TO SHOW ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES. APPEARANCE ON THESE PLANS, HOWEVER, DOES NOT GUARANTEE THE ACCURACY AND COMPLETENESS OF THE LOCATION OR EXISTENCE OF THESE UTILITIES AND/OR SUBSTRUCTURES. THE CONTRACTOR IS REQUIRED TO TAKE ALL REQUIRED PRECAUTIONARY MEANS TO LOCATE AND PROTECT ALL EXISTING UTILITIES AND SUBSTRUCTURES WHETHER SHOWN OR NOT, PRIOR TO EXCAVATION IN ANY AREA. THE CONTRACTOR SHALL MEET AT THE JOB SITE WITH REPRESENTATIVES OF THE UTILITY DISTRICTS OR COMPANIES AND OTHER OWNERS WHICH MAY HAVE EXISTING FACILITIES AND TO DISCUSS THEIR PROTECTION.
2. EXCAVATION AND EMBANKMENT SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE STANDARD SPECIFICATIONS. ALL COMPACTION OF SUBGRADE, ROCK, AND ASPHALT SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS.
3. THIS PLAN MAY NOT SHOW ALL EXISTING UTILITIES. EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 1-800-342-1585 A MINIMUM OF 48 HOURS PRIOR TO EXCAVATION BEFORE YOU DIG. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.
4. ALL FINISHED GRADING ELEVATIONS SHALL MATCH EXISTING ELEVATIONS AT THE SITE'S BOUNDARY. EXCEPT AS SHOWN OTHERWISE IN THE GRADING PLAN. WHERE CONFLICTS EXIST, THE CONTRACTOR SHALL NOTIFY OWNER TO RESOLVE THE ISSUE PRIOR TO PROCEEDING.
5. QUANTITIES HAVE BEEN CALCULATED TO DETERMINE VOLUMES OF EXCAVATION AND EMBANKMENT ON THIS PROJECT. (NOT INCLUDING UNSUITABLE SOILS)
6. GRADING: ALL GRADING SHALL BE LIMITED TO THE AREAS IDENTIFIED IN THE GRADING PLAN AND SHALL NOT INFRINGE ON ADJACENT OWNERSHIPS.
7. THE CONTRACTOR SHALL HAVE A RESPONSIBLE PARTY WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT FOR THE CONTRACTOR AT THE JOB SITE DURING ALL WORKING HOURS.
8. CUT SLOPES IN SOLID ROCK SHALL NOT EXCEED 1/2 : 1 (HORIZONTAL: VERTICAL), AND SOIL CUT SLOPES SHALL NOT EXCEED 2.5 : 1 (HORIZONTAL: VERTICAL), EXCEPT AS SHOWN OTHERWISE IN THE PLANS.
9. FILL SLOPES ACROSS THE PROPERTY SHOULD BE DESIGNED FOR A MAXIMUM SLOPE OF 2.5 : 1 (HORIZONTAL: VERTICAL), EXCEPT AS SHOWN OTHERWISE IN THE PLANS.
10. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND EQUIPMENT TO CONSTRUCT AND INSTALL PROPER WORKING ORDER, THE DESIGN SHOWN, AS DETAILED OR CALLED OUT IN THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR BEING FAMILIAR WITH THE PROVISIONS AND REQUIREMENTS CONTAINED IN THE STANDARD SPECIFICATIONS.
11. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLAN(S) IN ACCORDANCE WITH THE MANUAL UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS REQUIRED. PRIOR TO DISRUPTION OF ANY TRAFFIC, A TRAFFIC PLAN SHALL BE PREPARED AND SUBMITTED TO THE ENGINEER FOR APPROVAL. NO WORK SHALL COMMENCE UNTIL ALL APPROVED TRAFFIC CONTROL IS IN PLACE.
12. ALL CURB AND GUTTER, STREET GRADES, SIDEWALK GRADES, AND ANY OTHER VERTICAL AND/OR HORIZONTAL ALIGNMENT SHALL BE STAKED BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK.
13. WHERE NEW ASPHALT JOINS EXISTING, THE EXISTING ASPHALT SHALL BE CUT TO A NEAT VERTICAL EDGE AND TACKED WITH ASPHALT EMULSION TYPE CSS-1 IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE NEW ASPHALT SHALL BE FEATHERED BACK OVER EXISTING TO PROVIDE FOR A SEAL AT THE SAW CUT LOCATION AND THE JOINT SEALED WITH GRADE AR-400W PAVING ASPHALT.
14. FORM AND SUBGRADE INSPECTION BY THE INSPECTOR IS REQUIRED BEFORE POURING CONCRETE. TWENTY-FOUR HOURS NOTICE IS REQUIRED FOR FORM INSPECTION.
15. ALL TESTING TO BE IN ACCORDANCE WITH THE IDAHO TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS.
16. THE CONTRACTOR SHALL PROVIDE THE DESIGN ENGINEER WITH RECORD DRAWINGS PRIOR TO FINAL APPROVAL. ALL DEVIATIONS FROM THE ORIGINAL PLANS MADE DURING THE COURSE OF THE CONSTRUCTION INCLUDING LOCATIONS, INVERTS, AND DEPTHS OF UTILITIES SHOULD BE CLEARLY MARKED ON THE RECORD DRAWINGS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DIRT, MUD, AND OTHER CONSTRUCTION DEBRIS WHICH MAY ACCUMULATE ON PAVED STREETS ADJACENT TO THE SITE AS A RESULT OF THE CONSTRUCTION ACTIVITY. CLEANING SHALL BE ON AN "AS NEEDED" BASIS USING SWEEPING AND WATER CANNOT WASH DEBRIS INTO EXISTING SWALES. MUST PROTECT ALL EXISTING FACILITIES FROM DIRT /DEBRIS.
18. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MOST CURRENT COPY OF THE STATE OF IDAHO STANDARD SPECIFICATIONS AND THE CITY OF LEWISTON.
19. ALL APPROVALS AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ABSENCE OF THE PERMIT MAY RESULT IN AND IMMEDIATE SHUT DOWN OF WORK AND POSSIBLE REMOVAL OF THOSE ITEMS CONSTRUCTED WITHOUT THE PERMIT.
20. IF CONSTRUCTION IS TO TAKE PLACE IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL OBTAIN ALL THE REQUIRED APPROVALS AND PERMITS.
21. A PRE CONSTRUCTION MEETING SHALL BE HELD WITH THE CONSTRUCTION INSPECTOR PRIOR TO THE START OF CONSTRUCTION.
22. DEFLECTIONS AT PIPE JOINTS SHALL NOT EXCEED 75% OF MAX. ALLOWED DEFLECTIONS, PER MANUFACTURER'S RECOMMENDATIONS.
23. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THESE APPROVED PLANS ON THE CONSTRUCTION SITE AT ALL TIMES.
24. ANY CHANGES TO THE DESIGN SHALL FIRST BE REVIEWED AND APPROVED BY THE PROJECT ENGINEER.
25. PRIOR TO BACKFILL ALL MAINS AND APPURTENANCES SHALL BE INSPECTED AND APPROVED BY THE CONSTRUCTION INSPECTOR. APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FOR CORRECTION OF ANY DEFICIENCIES AND/OR FAILURES AS DETERMINED BY SUBSEQUENT TESTING AND INSPECTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE INSPECTOR FOR THE REQUIRED INSPECTIONS.
26. ALL PUBLIC WORKS CONSTRUCTION SHALL CONFORM TO CITY OF LEWISTON STANDARD CONSTRUCTION SPECIFICATIONS.
27. ALL OUTDOOR BURNING OF CONSTRUCTION DEBRIS AND WASTE MATERIALS IS PROHIBITED. ALL WASTE MATERIALS MUST BE HAULED AWAY.
28. ALL PUBLIC IMPROVEMENTS SHALL BE INSPECTED BY THE CITY OF LEWISTON. CALL AT LEAST THREE WORKING DAYS PRIOR TO CONSTRUCTION OF PUBLIC IMPROVEMENTS TO COORDINATE INSPECTIONS. DEVELOPER SHALL PAY ALL INSPECTION FEES.

WATER CONSTRUCTION NOTES:

- 1. WATERLINES SHALL BE INSTALLED WITH TOP OF PIPE ELEVATIONS A MINIMUM OF 4.0' BELOW FINISHED GRADE UNLESS OTHERWISE NOTED. PROVIDE TRENCHING AND BEDDING PER STANDARD SPECIFICATIONS.
2. GATE VALVES UNDER 4 INCHES: GATE VALVE UNDER 4 INCHES SHALL BE ALL BRONZE, NO RISING, STEM, CONFORMING TO FEDERAL SPECIFICATIONS WM-V-54, TYPE 1, CLASS A.
3. HYDRANTS SHALL CONFORM TO AWWA STANDARD C502-94. ALL HYDRANTS SHALL BE BAGGED UNTIL SYSTEM IS APPROVED.
4. ALL PIPE AND SERVICES SHALL BE INSTALLED WITH CONTINUOUS TRACER TAPE INSTALLED 12" TO 18" UNDER THE FINAL GROUND SURFACE. THE MARKER SHALL BE PLASTIC NON-Biodegradable, METAL CORE OR BACKING MARKED WATER WHICH CAN BE DETECTED BY A STANDARD METAL DETECTOR. TAPE SHALL BE TERRA TAPE "D" OR APPROVED EQUAL. IN ADDITION TO TRACER TAPE, INSTALL 14 GAUGE COPPER WIRE, WRAPPED AROUND THE PIPE, BROUGHT UP AND TIED OFF AT THE VALVE.
5. ALL WATER MAINS SHALL BE STAKED FOR GRADES AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK.
6. WHERE CONNECTIONS REQUIRED "FIELD VERIFICATION," CONNECTION POINTS WILL BE EXPOSED BY CONTRACTOR AND FITTINGS VERIFIED 48 HOURS PRIOR TO DISTRIBUTION SHUT-DOWN NOTICES.
7. AT ANY CONNECTION TO AN EXISTING LINE WHERE A NEW VALVE IS NOT INSTALLED, THE EXISTING VALVE MUST BE PRESSURE TESTED PRIOR TO CONNECTION. IF AN EXISTING VALVE FAILS TO PASS THE TEST, THE CONTRACTOR SHALL MAKE THE NECESSARY PROVISIONS TO TEST THE NEW LINE PRIOR TO CONNECTION TO THE EXISTING SYSTEM OR INSTALL NEW VALVE.
8. WHEN FIRE FLOW WILL BE INTERRUPTED, THE CITY OF LEWISTON FIRE DISTRICT SHALL BE GIVEN A 24 HOURS NOTICE OF TIME AND LOCATIONS AFFECTED.
9. AFTER THE WATER LINES ARE CONSTRUCTED, TESTED AND APPROVED, THE OWNER MAY APPLY FOR A WATER METER. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE WATER VALVE WITH CITY OF LEWISTON.
10. DEFLECTIONS AT PIPE JOINTS SHALL NOT EXCEED 75% OF MAXIMUM ALLOWED DEFLECTION, PER MANUFACTURER'S RECOMMENDATIONS.
11. FORCES WILL MAKE CONNECTIONS AND DISCONNECTIONS TO EXISTING WATER MAINS. CONTRACTOR SHALL PROVIDE ALL MATERIALS FOR CONNECTION AND PAY ALL FEES. SHALL FURNISH MATERIALS AND INSTALL FROM CONNECTION POINT THROUGH DOUBLE CHECK VALVE ASSEMBLY (INCLUDING THE VAULT). CONTRACTOR SHALL FURNISH ALL MATERIALS, EXCAVATION AND BACKFILL. SEE CITY OF LEWISTON STANDARD SPECIFICATIONS.
12. GATE VALVES 4 INCHES AND LARGER: GATE VALVES SHALL BE MADE FOR HUB END, MECHANICAL JOINT END OR FLANGED CONNECTIONS AND IN SIZES 4 INCHES AND LARGER SHALL CONFORM TO THE LATEST APPLICABLE SPECIFICATIONS OF AWWA.
13. LOCATION OF EXISTING WATER MAINS AND SERVICES SHOWN ARE APPROXIMATE ONLY BASED ON INFORMATION PROVIDED BY CITY OF LEWISTON. CONTRACTOR TO VERIFY ALL LOCATIONS PRIOR TO CONSTRUCTION.
14. NEW WATER LINES SHALL BE TESTED AT NO LESS THAN 150 PSI FOR MINIMUM OF 30 MIN. IN ACCORDANCE WITH CITY OF LEWISTON STANDARD CONSTRUCTION SPECIFICATION.
15. FIRE HYDRANTS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO THE TIME THAT COMBUSTIBLE MATERIALS ARE STORED AND/OR CONSTRUCTED AT THE SITE.
16. PROVIDE AND MAINTAIN 3' RADIUS OF ALL-WEATHER FOOTING AROUND FIRE HYDRANTS.
17. KEEP SHRUBS, UTILITIES, AND OTHER OBSTRUCTIONS AT LEAST 3' FROM FIRE HYDRANTS.
18. THRUST BLOCKS SHALL BE PER CITY OF LEWISTON STANDARD DETAILS. THE CONCRETE MIX SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 2,500 POUNDS PER SQUARE INCH.

SEWER NOTES:

- 1. ALL SEWER CONSTRUCTION PROCEDURES AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF LEWISTON CONSTRUCTION SPECIFICATIONS.
2. ALL SIDE SEWER LINES SHALL BE 6" AS INDICATED ON THE PLANS WITH LONG RADIUS BENDS SHALL BE USED AT ALL CHANGES IN DIRECTION.
3. ALL SEWER MAINS AND SERVICE LINES SHALL BE LOCATED TO MEET STATE SEPARATION REQUIREMENTS.
4. ALL SIDE SEWERS WHICH THE CONTRACTOR IS UNABLE TO MAINTAIN A MINIMUM OF 18" COVER AT WATER MAIN CROSSINGS OR WHICH THE SIDE SEWER MUST CROSS ABOVE THE WATER, THE CONTRACTOR SHALL SLEEVE THE SIDE SEWER WITH CONTINUOUS 20" SECTION OF P.V.C. SEWER PIPE CENTERED ON THE CROSSING.
5. SANITARY SEWER PIPE SHALL BE PVC ASTM D 3034, SDR 35, OR ASTM C76 PROVIDE TRENCHING AND BEDDING PER CITY OF LEWISTON STANDARDS.
6. PRECAST MANHOLES SHALL MEET THE REQUIREMENTS OF ASTM C 478. MANHOLES SHALL BE TYPE 1-48" MANHOLE UNLESS OTHERWISE SPECIFIED ON THE PLANS. MINIMUM WALL THICKNESS OF 4" PER CITY OF LEWISTON STANDARD PLANS.
7. ALL SEWER MAINS SHALL BE FIELD STAKED FOR GRADES AND ALIGNMENT BY A LICENSED ENGINEERING OR SURVEYING FIRM QUALIFIED TO PERFORM SUCH WORK.
8. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF LEWISTON STANDARD CONSTRUCTION SPECIFICATIONS. ALL WATER AND SEWER MAINS AND SEWER LINES SHALL MEET STATE SEPARATION REQUIREMENTS.

SWPPP NOTES:

- 1. MAINTAIN NATURAL VEGETATION WHERE POSSIBLE FOR SILT CONTROL.
2. REVEGETATE ALL SLOPES IMMEDIATELY AFTER CONSTRUCTION.
3. DIRECT ALL SURFACE RUNOFF AWAY FROM STRUCTURAL FILL AND EMBANKMENT AREAS.
4. SURFACE WATER DRAINING FROM CUT SLOPES SHALL BE COLLECTED AT THE TOE OF THE SLOPE AND ROUTED TO A SUITABLE COLLECTION AREA.
5. DETENTION PONDS AND SEDIMENT BASINS SHALL BE CONSTRUCTED WITH SLOPES NO STEEPER THAN 3:1 (HORIZONTAL:VERTICAL).
6. PERFORM NO EARTHWORK IMMEDIATELY AFTER RAINFALL.
7. WHERE STABILIZATION OF SOFT OR WET CONDITIONS IS REQUIRED, USE A WOVEN GEOTEXTILE WITH A MINIMUM MULLEN BURST STRENGTH OF 500 POUNDS PER SQUARE INCH AND A GRAB TENSILE STRENGTH OF 250 POUNDS (PER ASTM D-4632).
8. FOR SEPARATION BETWEEN FINE AND GRANULAR SOIL, USE AN EIGHT OUNCE PER SQUARE YARD NON-WOVEN GEOTEXTILE FABRIC.
9. TEMPORARY SOIL STABILIZATION MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO SOODING, SEEDING, MULCHING (WITH 2 TONS OF STRAW PER ACRE), AND EARLY APPLICATION OF GRAVEL BANKS ON AREAS TO BE PAVED. SEEDING ALONE IS ACCEPTABLE ONLY ON FLOAT AREAS AND SLOPES LESS THAN 25%, AND ONLY DURING THE PERIODS FROM MARCH 1 TO MAY 15 AND AUGUST 15 TO OCTOBER 1. MULCH MAY NEED TO BE HELD IN PLACE BY UTILITY MESH NETTING OR TACKIFIER.
10. FOLLOW ALL RECOMMENDATIONS AND OPINIONS OF THE GEOTECHNICAL ENGINEERING EVALUATION BY STRATA, DATED 000000.

GRADING NOTES:

- 1. SOIL CONTAINING VEGETATION AND ORGANICS SHALL BE STRIPPED FROM THE LIMITS OF THE PROJECT.
2. EXCAVATION AND EMBANKMENT SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE CITY OF LEWISTON STANDARD CONSTRUCTION SPECIFICATIONS.
3. ALL COMPACTION OF SUBGRADES, ROCK, AND ASPHALT SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE CITY OF LEWISTON STANDARD CONSTRUCTION SPECIFICATIONS. COMPACTION REQUIREMENTS SHALL MEET THE STANDARD SPECIFICATIONS OR AS SHOWN ON THE DRAWINGS, WHICHEVER IS GREATER.
4. RECOMMENDATIONS AND OPINIONS OF THE GEOTECHNICAL ENGINEERING EVALUATION BY STRATA, 000000 SHALL BE FOLLOWED. SPECIFICALLY:
A. EXCAVATIONS SHOULD BE PLANNED CAREFULLY, ALLOWING WATER COLLECTION POINTS AND UTILIZING CONVENTIONAL SUMPS AND PUMPS TO REMOVE GROUNDWATER, IF NECESSARY.
B. ALL FILL SHOULD BE CONSTRUCTED AS STRUCTURAL FILL ACCORDING TO THE GEOTECHNICAL REPORT.
C. ALL STRUCTURAL FILL SHALL BE PLACED IN 12" THICK, LOOSE LIFTS AT NEAR OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 92% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR). THE TOP 6 INCHES BELOW FINAL SUBGRADE SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR).
D. STRUCTURAL FILL PLACED ADJUNCT TO SLOPES SHALL BE PROPERLY COMPACTED AND KEVED INTO THE EMBANKMENT AS DETAILED ON THE DRAWINGS.
E. MAINTAIN CONTINGENCES FOR REPLACING SOFT, WET SOIL WITH GRANULAR STRUCTURAL FILL.
5. ALL FINISHED GRADING ELEVATIONS SHALL MATCH EXISTING ELEVATIONS AT THE LIMITS OF WORK, EXCEPT AS SHOWN OTHERWISE ON THE DRAWINGS. WHERE CONFLICT IS FOUND, NOTIFY THE ENGINEER TO RESOLVE THE ISSUE PRIOR TO PROCEEDING.
6. REVEGETATE ALL SLOPES AS SOON AS POSSIBLE FOLLOWING CONSTRUCTION.
7. QUANTITIES HAVE BEEN CALCULATED TO DETERMINE VOLUMES OF EXCAVATION AND EMBANKMENT ON ITS PROJECT. THE CONTRACTOR MAY WORK WITH THE OWNER TO IDENTIFY BORROW SITES OR WASTE SITES. CONTRACTOR SHALL VERIFY EARTHWORK QUANTITIES PRIOR TO BID AND/OR CONSTRUCTION.
8. GRADING SHALL BE LIMITED TO THE AREAS IDENTIFIED ON THE DRAWINGS.
9. CUT SLOPES IN SOLID ROCK SHALL NOT EXCEED 1/2:1 (HORIZONTAL:VERTICAL). SOIL CUT SLOPES SHALL NOT EXCEED 2:1 (HORIZONTAL:VERTICAL), EXCEPT AS SHOWN OTHERWISE ON THE DRAWINGS.
10. FILL SLOPES ARE DESIGNED FOR A MAXIMUM 1-1/2:1 (HORIZONTAL:VERTICAL), EXCEPT AS SHOWN OTHERWISE ON THE DRAWINGS.
11. FORM AND SUBGRADE INSPECTION IS REQUIRED BEFORE POURING CONCRETE. TWENTY-FOUR HOURS NOTICE IS REQUIRED FOR FORM INSPECTION BY AN INSPECTOR.

EROSION & SEDIMENTATION CONTROL NOTES:

GENERAL EROSION CONTROL NOTES

- 1. AN EROSION/SEDIMENTATION CONTROL (ESC) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE ESC PLAN, AND CONSTRUCTION, MAINTENANCE, AND UPGRADING OF THE ESC FACILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY CITY OF LEWISTON, OR UNTIL VEGETATION IS ESTABLISHED THROUGHOUT THE SITE, AND ACCEPTED BY CITY OF LEWISTON, WHICHEVER IS LATER.
2. APPROVAL OF THE ESC PLAN DOES NOT CONSTITUTE APPROVAL OF ANY OF THE PROPOSED ROAD, STORM DRAINAGE, GRADING OR UTILITY DESIGN ELEMENTS SHOWN ON THE ESC PLAN.
3. THE EROSION /SEDIMENTATION CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS OF THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THESE ESC MEASURES DAILY, AND SHALL MAINTAIN AND UPGRADE THESE MEASURES AS NECESSARY TO PREVENT SEDIMENT-LADEN WATER FROM EITHER FLOWING OFF SITE, OR INTO NEW/EXISTING STORM DRAINAGE FACILITIES, SUCH AS DRYWELLS, CULVERTS, OR GRAVEL GALERIES.
4. CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE ROCK CONSTRUCTION ENTRIES AT ANY AND ALL LOCATIONS USED TO ENTER OR EXIT THE PROJECT SITE.
5. ANY DISTURBED AREAS, EXCEPT FOR POND BOTTOM AND SLOPES, WHICH WOULD BE LEFT BARE FOR MORE THAN 5 DAYS AND NOT INTENDED TO BE REWORKED WITHIN 30-45 DAYS SHALL BE MULCHED.
6. GRADED AREAS, WHICH WOULD BE LEFT BARE FOR MORE THAN 5 DAYS, SHALL HAVE A MULCH APPLIED AT A RATE OF TWO THOUSAND (2,000) POUNDS PER ACRE. MULCH SHALL BE A VIRGIN WOOD CELLULOSE FIBER SPECIALLY PROCESSED AS A HYDROSEEDING MULCH AND CONTAINING NO GROWTH OR GERMINATION INHIBITING FACTORS. IF POND CONSTRUCTION HAS BEEN COMPLETED, INCLUDING DRAINAGE STRUCTURES AND HAVE RECEIVED FINAL INSPECTION APPROVAL, THEY SHALL BE HYDROSEEDED. BASED UPON DIRECTION FROM THE INSPECTOR, A TACKFER MAY BE REQUIRED.
7. DUST CONTROL: AN APPROVED METHOD OF DUST CONTROL, MEETING THE REQUIREMENTS OF LOCAL REGULATIONS, SHALL BE UTILIZED DURING CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MATERIALS WHICH SPILL ONTO LOCAL STREETS DURING THE TRANSPORTATION OF THE EQUIPMENT. SHOULD A SPILL OCCUR, THE CONTRACTOR SHALL REMOVE THE MATERIAL BY THE END OF THE WORK DAY. NO MATERIAL SHALL BE ALLOWED TO SET, DRY, OR BE WASHED INTO ADJACENT STORMWATER FACILITIES.
8. GEOTEXTILE FABRIC IS TO BE PLACED ON THE RIMS OF DRYWELLS, CATCH BASINS, AND INLETS UNTIL SUCH TIME AS THE VEGETATION ON THE SITE IS ESTABLISHED AND THE THREAT OF SEDIMENT DEPOSITION INTO THE DRAINAGE SYSTEM IS MITIGATED.
9. THE CONTRACTOR SHALL PROTECT ALL CATCH BASINS, DRYWELLS, AND OTHER STORM DRAINAGE STRUCTURES FROM BEING CONTAMINATED WITH SILT BY INSTALLING FILTER FABRIC OVER THE METAL FRAME DURING CONSTRUCTION AND KEEPING IT IN PLACE UNTIL THE STREET HAS BEEN PAVED AND CLEANED.

EROSION CONTROL MAINTENANCE NOTES

- 1. SEDIMENT BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RUNOFF-PRODUCING RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL 24 CONTINUOUS HOURS OR 48 HOURS IN ANY ONE WEEK.
2. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BARRIERS SHALL BE ACCOMPLISHED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RUNOFF-PRODUCING RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY 1/2 THE HEIGHT OF THE FILTER FABRIC BARRIER, OR 1/2 THE DEPTH OF THE CUTOFF DITCH, OR 1/2 THE VOLUME OF THE SEDIMENT POND.
4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE ESC STRUCTURE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND HYDRO/HAND SEEDED AT THE SAME RATE AS THE POND.
5. ALL TEMPORARY AND PERMANENT ESC PRACTICES SHALL BE MAINTAINED AND PREPARED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.
6. ALL TEMPORARY ESC MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMP'S ARE NO LONGER NEEDED. "TRAPPED SEDIMENT" SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL WITHOUT PERMISSION OF THE ENGINEER OR INSPECTOR WHICH RESULTS IN CONTAMINATION OF THE DRYWELLS SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO REMEDY. REMEDY MAY INCLUDE DRYWELL CLEANING OR REMOVAL AND RECONSTRUCTION.
7. MAINTAIN SILTATION AND DENTION CONTROL FOR ONE-YEAR AFTER CONSTRUCTION IS COMPLETE AND PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL.

ROAD NOTES:

- 1. ALL CURB AND GUTTER, STREET GRADES, SIDEWALK, GRADES, AND ANY OTHER VERTICAL AND/OR HORIZONTAL ALIGNMENTS SHALL BE STAKED BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK.
2. WHERE NEW ASPHALT JOINS EXISTING, THE EXISTING ASPHALT SHALL BE CUT TO A VERTICAL EDGE AND TACKED WITH ASPHALT EMULSION TYPE CSS-1 IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE NEW ASPHALT SHALL BE FEATHERED BACK OVER EXISTING TO PROVIDE FOR A SEAL AT THE SWA CUT LOCATION AND THE JOINT SEALED WITH GRADE AR-400W PAVING ASPHALT.
3. COMPACTION OF SUBGRADE, ROCK, AND ASPHALT SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

UTILITY NOTES:

- 1. CONTRACTOR SHALL COORDINATE UTILITY FACILITIES WORK AND CONFORM TO REQUIREMENTS OF THE FOLLOWING UTILITIES:
- AVISTA POWER AND GAS
- QWEST
- CABLE ONE
INFORMATION SHOWN ON THIS DRAWING IS FOR PRELIMINARY REFERENCE ONLY.
2. CONTRACTOR MUST VERIFY LOCATION, DIMENSIONS, AND QUANTITIES OF TRENCHES, CONDUIT AND VAULTS WITH ABOVE LISTED UTILITIES BEFORE BEGINNING CONSTRUCTION. CONSTRUCTION SHALL BE BASED ON ACTUAL IMPROVEMENTS REQUIRED BY UTILITIES.
PROVIDE TRENCH EXCAVATION, BEDDING, AND BACKFILL FOR CONDUIT OF UTILITIES
3. LISTED IN NOTE 1. PROVIDE MIN. 48 HOURS NOTICE TO UTILITY COMPANIES PRIOR TO CONSTRUCTION. IN ADDITION, PROVIDE THE FOLLOWING:
-FURNISH AND INSTALL VAULTS AND CONDUIT OF SIZE AND QUANTITY REQUIRED BY AVISTA
-PROVIDE EXCAVATION FOR VAULTS
-WIDEN TRENCHES TO ROUTE CONDUIT INTO PRIMARY VAULTS (40% BOTH SIDES OF VAULT) PROVIDED BY CONTRACTOR
-FURNISH AND INSTALL CONDUIT OF SIZE AND QUANTITY REQUIRED BY QWEST
4. CONTRACTOR SHALL CONFORM TO CITY AND STATE SAFETY REGULATIONS.
5. ALL ROADWAY CROSSINGS SHALL BE A MIN. SCH. 80 CONDUIT. CONTRACTOR SHALL COORDINATE ACTUAL SIZE WITH ALL UTILITY COMPANIES.
6. SANITARY SEWER GRAVITY PIPE SHALL BE ASTM D3034 SDR 35 PVC.
7. SEWER SERVICES SHALL BE STAKED WITH A DEPTH-MARKED WOODEN STAKE
7. LABELED "SEWER."
8. SADDLES FOR SANITARY SEWER SERVICES SHALL BE 6' MINIMUM DISTANCE FROM SANITARY SEWER MANHOLES.
9. SANITARY SEWER SERVICES SHALL BE 10' MINIMUM DISTANCE FROM WATER SERVICES WITH SDR 35 STRAIGHT GASKETED COUPLING.
10. BURIED SANITARY SEWER MAIN ENDS SHALL BE MARKED WITH A 2"x4" PRESSURE TREATED WOOD MARKER POST LABELED "SEWER." EXTEND POST FROM PIPE INVERT TO 24" ABOVE FINISHED GROUND.
11. WATER MAIN PIPE SMALLER THAN 12" SHALL BE CLASS 150 PVC PER AWWA C900.
12. FITTINGS FOR WATER MAIN SHALL BE CAST IRON PER AWWA C110 OR AWWA C153. FITTINGS SHALL BE CEMENT MORTAR LINED AND SHALL BE MECHANICAL JOINT UNLESS SHOWN OTHERWISE.
13. COVER FOR WATER MAIN AND SERVICE LINES SHALL BE 48" MINIMUM.
14. A MINIMUM 18" SEPARATION SHALL BE MAINTAINED BETWEEN INVERT OF WATER MAIN AND CROWN OF SEWER MAIN UNLESS OTHERWISE SHOWN.
15. WATER SERVICE STUBS SHALL BE STAKES WITH A DEPTH MARKED WOODEN STAKE LABELED "WATER SERVICE."
16. PROVIDE THRUST RESTRAINING AS REQUIRED BY CITY OF LEWISTON.
17. PROVIDE #9 SOLID GALVANIZED STEEL TRACER WIRE ON ALL PVC PIPE.
18. PROVIDE 4" WIDE IDENTIFYING TAPE ABOVE ALL MAINS AND SERVICES. LOCATE TAPE 12" BELOW FINISH GRADE.
19. CONTRACTOR SHALL PROVIDE ALL GRADES. PROPERTY CORNER LOCATIONS OR OTHER REFERENCE POINTS TO DETERMINE LOCATIONS AND DEPTH OF ELECTRIC AND PHONE FACILITIES.

STORM DRAINAGE NOTES:

- 1. DRAINAGE PONDS BE CONSTRUCTED PER THE REQUIREMENTS OF THESE DRAWINGS INCLUDING GRADING, SOD OR SEED AS NOTED, AND CATCH BASIN INSTALLATION. SEE NOTE 4 FOR DRAINAGE PONDS THAT SHALL INCLUDE AN IRRIGATION SYSTEM. NO BARK, GRAVEL, OR ONDERS ARE ALLOWED IN SWALE.
2. ALL DRAINAGE PONDS WITHIN THE SCOPE OF THIS PROJECT SHALL BE COMPLETED DURING THE CONSTRUCTION OF THE PARKING AREAS. THE CONTRACTOR SHALL PERFORM THE POND GRADE WORK, INSTALL THE IRRIGATION SYSTEM, AND SOD OR HYDROSEED FOLLOWING THE ROADWAY/PARKING AREA PAVING WORK.
3. ALL DRAINAGE PONDS LISTED IN NOTE #3 ARE TO BE IRRIGATED BY AN AUTOMATIC IRRIGATION SYSTEM INSTALLED BY OR UNDER THE DIRECTION OF THE LANDSCAPE CONTRACTOR. THE IRRIGATION IS TO COMPLY WITH ALL LOCAL CODES AND ORDINANCES (90 DAY GUARANTEE). AN APPROVED BACKFLOW DEVICE IN TO BE INSTALLED TO PREVENT WATER FROM GOING BACK INTO THE WATER SUPPLY. SEE IRRIGATION PLAN.
4. SLEEVING: PROVIDE SLEEVING AS REQUIRED UNDER SIDEWALKS, PATHS, CURBING, PAVING, ETC. AS NEEDED FOR IRRIGATION ACCESS. ALL SLEEVING SHALL BE 4" PVC WITH AT LEAST 12" OF COVER (1) FOOT BELOW FINISHED GRADE. THE OWNER/GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING SLEEVING BEFORE CURBING, SIDEWALKS, PAVING, ETC. IS INSTALLED. PATCH ASPHALT AS NEEDED. SEE IRRIGATION PLAN.
5. ADJUSTMENT: AFTER INSTALLATION, ADJUST VALVES, HEADS, EMITTERS ETC. TO PROVIDE UNIFORM COVERAGE AND TO MINIMIZE OVERSPRAY ON WALLS, FENCES, WALKS, DRIVES, ETC.
6. WATER-POWER SUPPLY FOR POND IRRIGATION: THE GENERAL CONTRACTOR IS TO SUPPLY WATER TAP (S) FOR HOOK-UP AND SUPPLY POWER FOR CONTROLLER.
7. POND BOTTOM ELEVATIONS SHOWN THESE PLANS ARE FINISHED GRADE. CONTRACTOR SHALL ROUGH GRADE ALL PONDS TO 0.2' BELOW ELEVATIONS SHOWN TO ALLOW FOR FINAL PLACEMENT OF SOD OR ESTABLISHMENT OF DRYLAND GRASS.

CONTRACTOR NOTE

ALL EXISTING UTILITIES SHOWN ON PLANS ARE TO BE VERIFIED HORIZONTALLY AND VERTICALLY PRIOR TO ANY CONSTRUCTION. ALL EXISTING FEATURES INCLUDING BURIED UTILITIES ARE SHOWN AS INDICATED ON RECORD MAPS AND SURVEYS FURNISHED BY OTHERS. WE ASSUME NO LIABILITY FOR THE ACCURACY OF THOSE RECORDS AND SURVEYS. CONTACT THE UTILITY OWNER/AGENCY FOR THE FINAL LOCATION OF EXISTING UTILITIES IN AREAS CRITICAL TO CONSTRUCTION.

UNDERGROUND SERVICE ALERT ONE-CALL NUMBER (800)342-1585 CALL TWO BUSINESS DAYS BEFORE YOU DIG

BERNARDO WILLS ARCHITECTS PC SWITZNER ENGINEERING LABORATORIES INC. Site Development Package - Permit Set January 21, 2011 General Notes Project No: 10-42-0041 Drawn by: JFS Date: 1/21/2011 C1.0