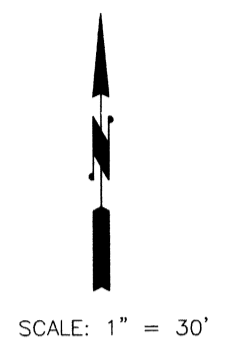


NOTE:
SEE SHEET C-6 FOR SECTIONS

LEGEND:
xx EXCAVATION ELEVATION



STORM SEWER NOTES

1. ALL PIPE AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT 7-02.3(1) AND CITY OF ANACORTES STANDARDS. 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.
2. ALL CATCH BASINS ARE TO BE TYPE I UNLESS OTHERWISE NOTED.
3. FRAME AND GRATES ARE TO BE FLAT CURB FRAME AND GRATE UNLESS OTHERWISE NOTED.
4. RIPRAP SHALL BE IN ACCORDANCE WITH SECTION 9-13.1 OF THE WSDOT / APWA STANDARD SPECIFICATIONS. RIPRAP TO BE REASONABLY WELL GRADED WITH ROCK GRADATION AS FOLLOWS:

PASSING 8" SQUARE SIEVE 100% OR MAX 8"
PASSING 6" SQUARE SIEVE 40-60% OR MED 6"
PASSING 2" SQUARE SIEVE 0-10% OR MIN 2"

PIPE SPECIFICATIONS

1. PLACEMENT REQUIREMENTS FOR CULVERTS AND STORM SEWER INSTALLATION SHALL BE AS INDICATED IN THE WSDOT APWA SPECIFICATIONS SECTIONS 7-02 AND 7.04, RESPECTIVELY, AND ASHTO SPECIFICATIONS. PIPE MATERIALS SHALL COMPLY WITH SECTION 9-05 OF THE WSDOT APWA SPECIFICATIONS WITH THE FOLLOWING CLARIFICATIONS:

DOUBLE WALLED (SMOOTH INTERIOR) CORRUGATED POLYETHYLENE PIPE, MEETING THE REQUIREMENTS OF ASHTO M 252 IN 8 INCH SIZE AND ASHTO M 294 S IN SIZES 12" THROUGH 36", IS AN ACCEPTABLE ALTERNATIVE FOR SCHEDULE A CULVERT PIPE, AS SHOWN ON WSDOT / APWA STANDARD PLAN B-17 AND FOR STORM SEWERS IN ACCORDANCE WITH THESE STANDARDS.

THE ENDS OF THE PIPE SHALL BE BEVELED TO MATCH THE SLOPE. FOR ANY PIPE LENGTH SECTION THAT IS TO BE BEVELED ON THE END, THE MINIMUM LENGTH OF THE UNBEVELED PORTION OF THE PIPE SHALL BE 6 FEET.

THE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THESE STANDARDS.

2. ALL FITTINGS AND ACCESSORIES SHALL BE MANUFACTURED AND FURNISHED BY THE PIPE SUPPLIER.
3. THE CONTRACTOR SHALL PLACE METALLIC TAPE OVER ALL CPEP. THE METALLIC TAPE SHALL BE MINIMUM OF 2 INCHES IN WIDTH AND PLACED CONTINUOUSLY THE LENGTH OF THE STORM DRAIN PIPE.
4. ALL STORM DRAIN PIPE SHALL BE BEDDED WITH GRANULAR MATERIAL PER A.P.W.A. SPECIFICATIONS.
5. FOOTING DRAINS, ROOF DOWNSPOUTS AND CURTAIN DRAINS ARE TO BE CONNECTED TO THE STORM DRAINAGE SYSTEM.

DRAIN PIPE AND FITTINGS MAY BE PVC ASTM D3034 SDI 35 OR EQUIVALENT PER THE REQUIREMENTS OF ASHTO M252 FOR 3 THROUGH 10" DIAMETER. ALL FITTINGS SHALL BE OF LIKE MATERIAL AS PIPE. ALL PIPE SHALL BE SUITABLE FOR USE AS A GRAVITY STORM DRAIN CONDUIT.

6. CATCH BASINS SHALL CONFORM TO TYPE I, TYPE II OR INLET TYPE AS DEFINED IN SAID A.P.W.A. STANDARD SPECIFICATIONS AND STANDARD PLANS WITH FLAT TOP FRAME AND GRATE.
7. CATCH BASINS SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS. PROVIDE TWELVE INCH MINIMUM CLEARANCE FROM TOP OF CATCH BASIN TO FINISH GRADE.
8. THE CAST IRON FRAME MAY BE PLACED FLANGE DOWN ON ADJUSTMENT BLOCKS IN LIEU OF PRECAST COLLAR. THE INSTALLATION OF CATCH BASINS SHALL INCLUDE FINAL ADJUSTMENT AS MAY BE REQUIRED TO FINISH GRADE.
9. CAST IRON FRAME FOR TYPE I CATCH BASINS SHALL ACCOMMODATE A 20 INCH X 24 INCH GRATE.

LEGEND:
--- EXISTING CONTOURS
--- PROPOSED CONTOURS
-x-x- TEMPORARY CHAINLINK FENCE

DESIGNED	ML	SBK	ML	BY
DRAWN	ML	SBK	ML	BY
CHECKED	ML	SBK	ML	BY
DATE	5/14/99	DATE	5/14/99	DATE

SCHEMWER ENGINEERING INC.
1004 COMMERCIAL AVENUE, SUITE 152
ANACORTES, WA 98221-4183 (360) 293-1980

SUN SYSTEMS, INC.
STORM SEWER AND GRADING PLAN BELOW FABRIC

JOB NO.	98-012
SHEET	C5
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