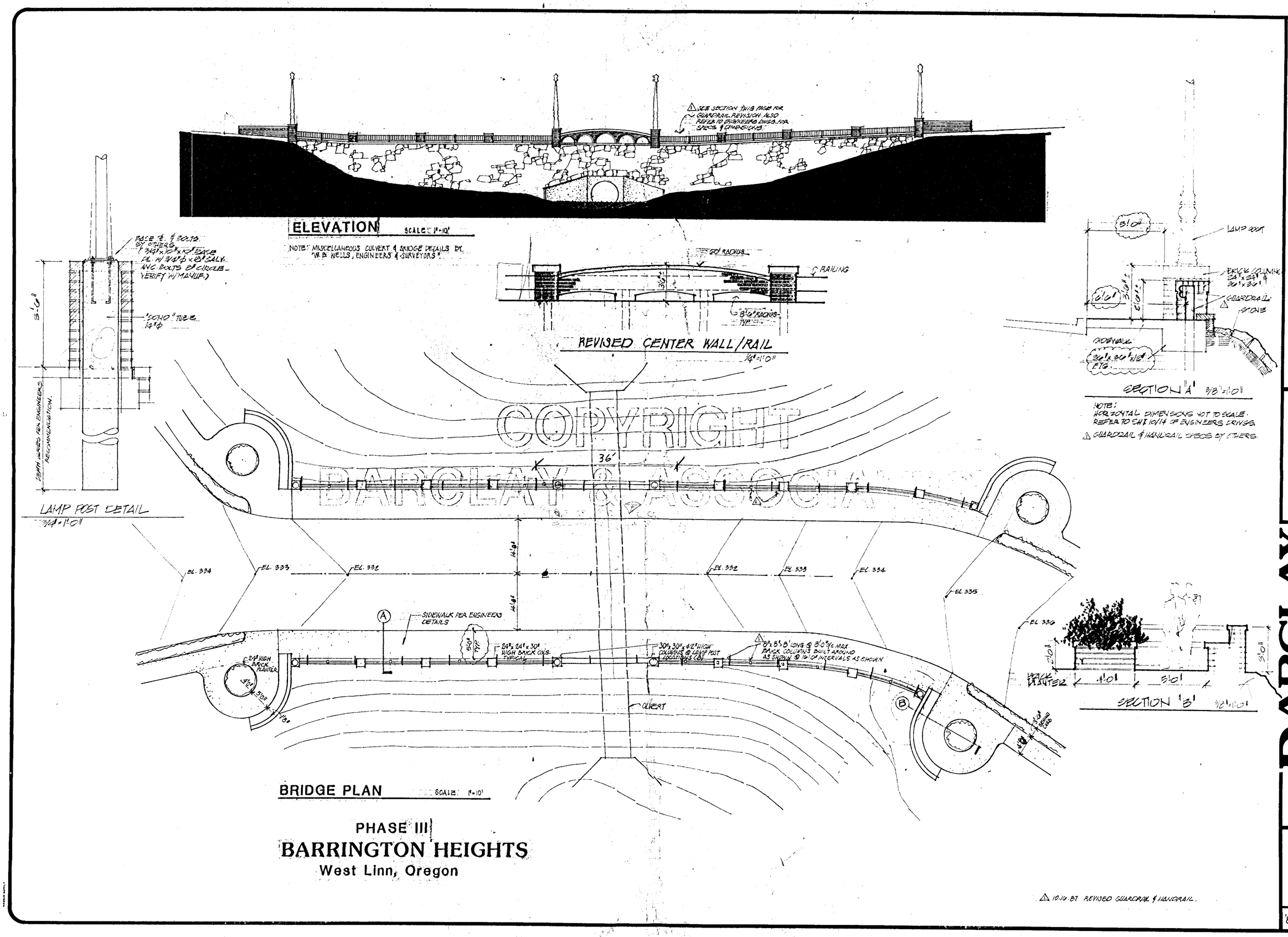


PHASE III

BARRINGTON HEIGHTS

West Linn, Oregon

△ 10.16.87 REVISED GUARDRAIL & HANDRAIL.

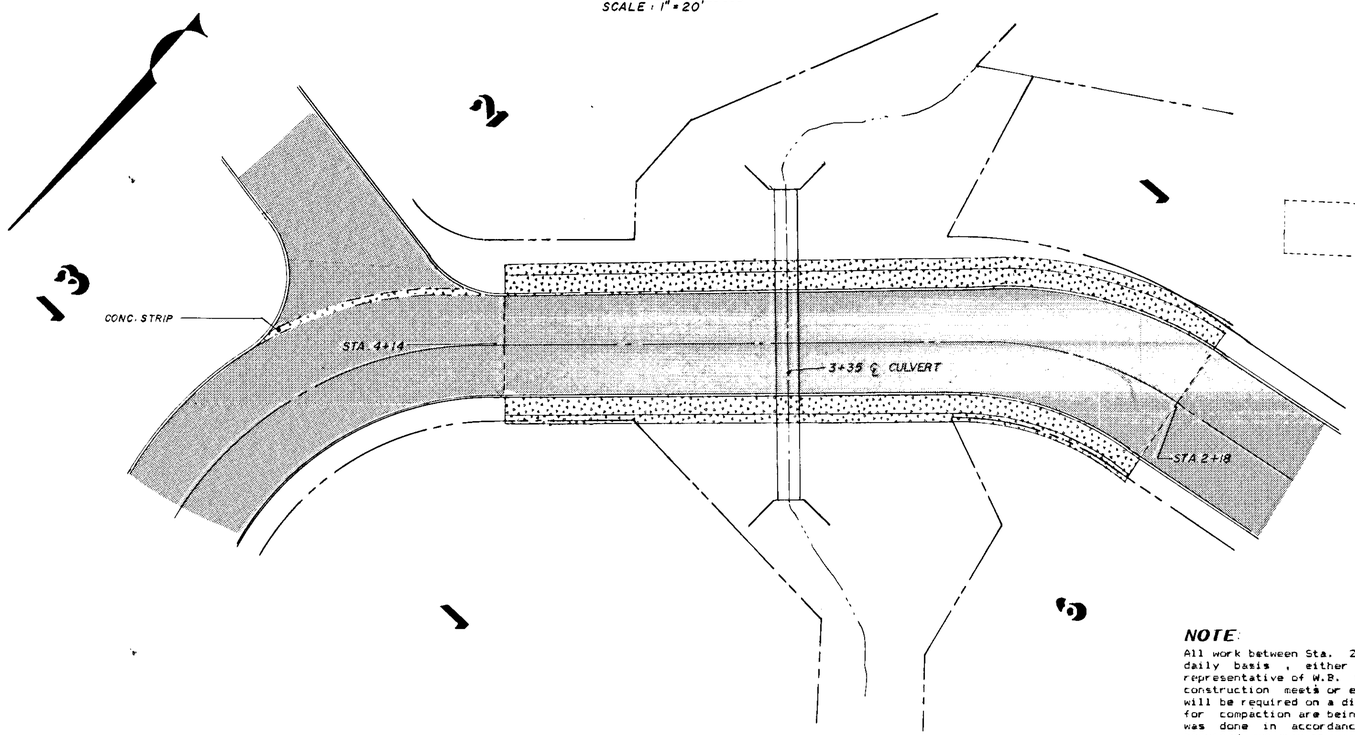
All ideas, arrangements, drawings and plans set forth on this sheet are the original work product of, owned by and are the property of Barclay & Associates designers and use of this sheet and the work product is limited to a specified project of the purchaser, and for the construction of one building, any use, reuse or disclosure of said plans, reproductions, ideas, designs and/or arrangements, other than by Barclay & Associates designers is strictly prohibited by law without the written permission of Barclay & Associates designers.

Written dimensions on these drawings shall have precedence over scaled dimensions; contractors shall verify, and be responsible for all dimensions and conditions on the job and this office must be notified of any variations from the dimensions and conditions shown by these drawings.

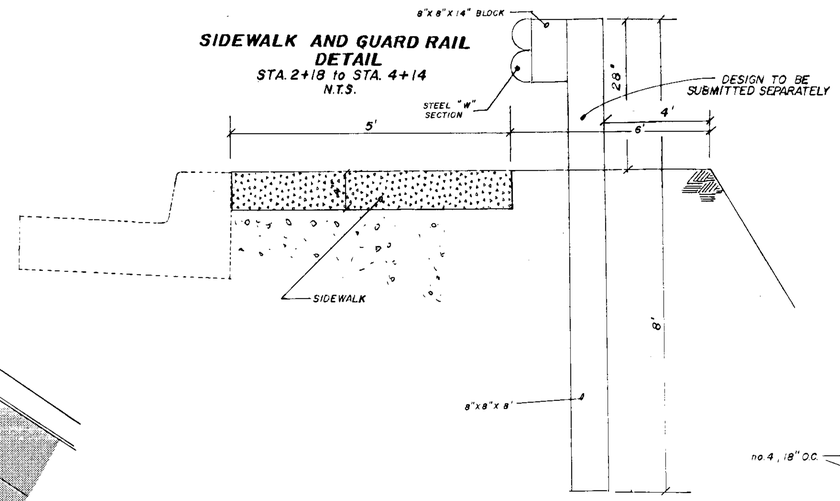
BARCLAY & ASSOC. DESIGNERS F.A.I.B.D.
15431 S.E. 82ND Dr. Suite D
Clackamas, OR 97015
(503) 656-1988
1-800-637-8365

'88 T.O.E.

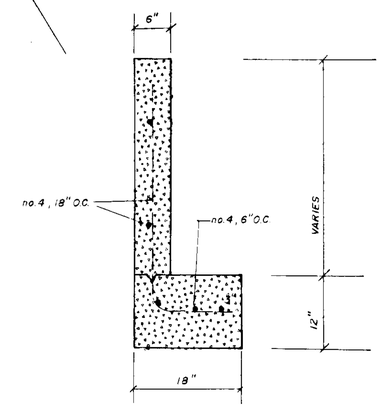
CREEK CROSSING PLAN
SCALE: 1" = 20'



SIDEWALK AND GUARD RAIL DETAIL
STA. 2+18 to STA. 4+14
N.T.S.



W. B. WELLS AND ASSOCIATES, INC.
ENGINEERS SURVEYORS
4230 N.E. FREMONT ST.
PORTLAND, OR 97213
PHONE: (503) 284-5896



HEAD WALL DETAIL - SECTION
N.T.S.

ALTERNATIVE CULVERT MATERIAL

The concrete culvert pipe specified herein (replaced by a 53" x 67" CORRUGATED METAL ARCH CULVERT or a 72" CIRCULAR CORRUGATED METAL CULVERT) is

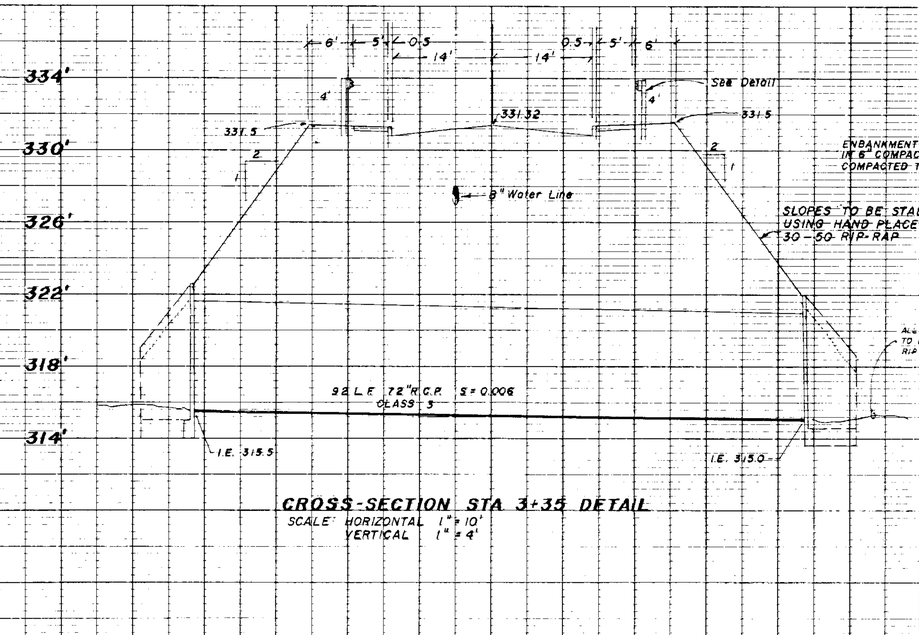
The manufacturer will submit acceptable documentation to the City in regards to the pipes ability to withstand the loading and provide soils test and analysis showing the anticipate service life of the pipe. The City will determine if the pipe is acceptable and the manufacturer should contact the City Engineer - Mr. Earl Reed - for his requirements.

If the corrugated pipe proves acceptable the developer will have a choice as to the type off inlet-outlet structure to be used. The options are:

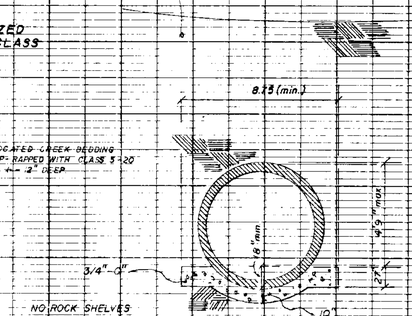
1. Use the concrete headwalls as detailed on these plans, adjusted for the pipe chosen.
2. Use the manufacturers prefabricated corrugated metal inlet-outlet structure. The manufacture will be responsible for providing the necessary detail drawings of these structure to the City Engineer for his approval.

If the corrugated metal pipe is used the bedding and installation will conform to the manufacturers recommendation and the City of West Linn specifications.

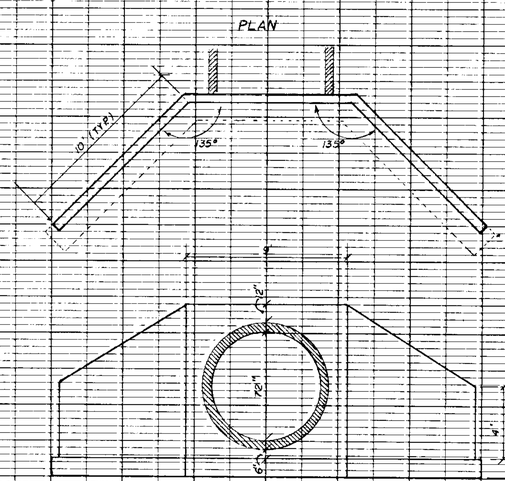
NOTE:
All work between Sta. 2+18 and Sta. 4+14 shall be observed on a daily basis, either by a certified testing lab or by a representative of W.B. WELLS & ASSOC., INC. to assure that the construction meets or exceeds the specifications. Soils test will be required on a dialy basis to assure that the requirements for compaction are being met. A report certifing that the work was done in accordance with the specifications, will be required, AND SHALL BE SIGNED BY A REGISTERED PE AND SUBMITTED TO THE CITY UPON COMPLETION OF THIS PORTION OF THE WORK.



CROSS-SECTION STA 3+35 DETAIL
SCALE: HORIZONTAL 1" = 10'
VERTICAL 1" = 4'



CULVERT PIPE BEDDING DETAIL - N.T.S.



CULVERT HEADWALL DETAILS N.T.S.

DESIGNED:	B.S.S.	SCALE:	
CHECKED:		FILE NO:	87-67
DRAWN:	B.S.S.	REVISED:	
DATE:	8/16/87		

PHASE III
BARRINGTON HEIGHTS
WEST LINN, OREGON

CULVERT, CREEK CROSSING PLAN AND DETAILS

SHEET 10 OF 14