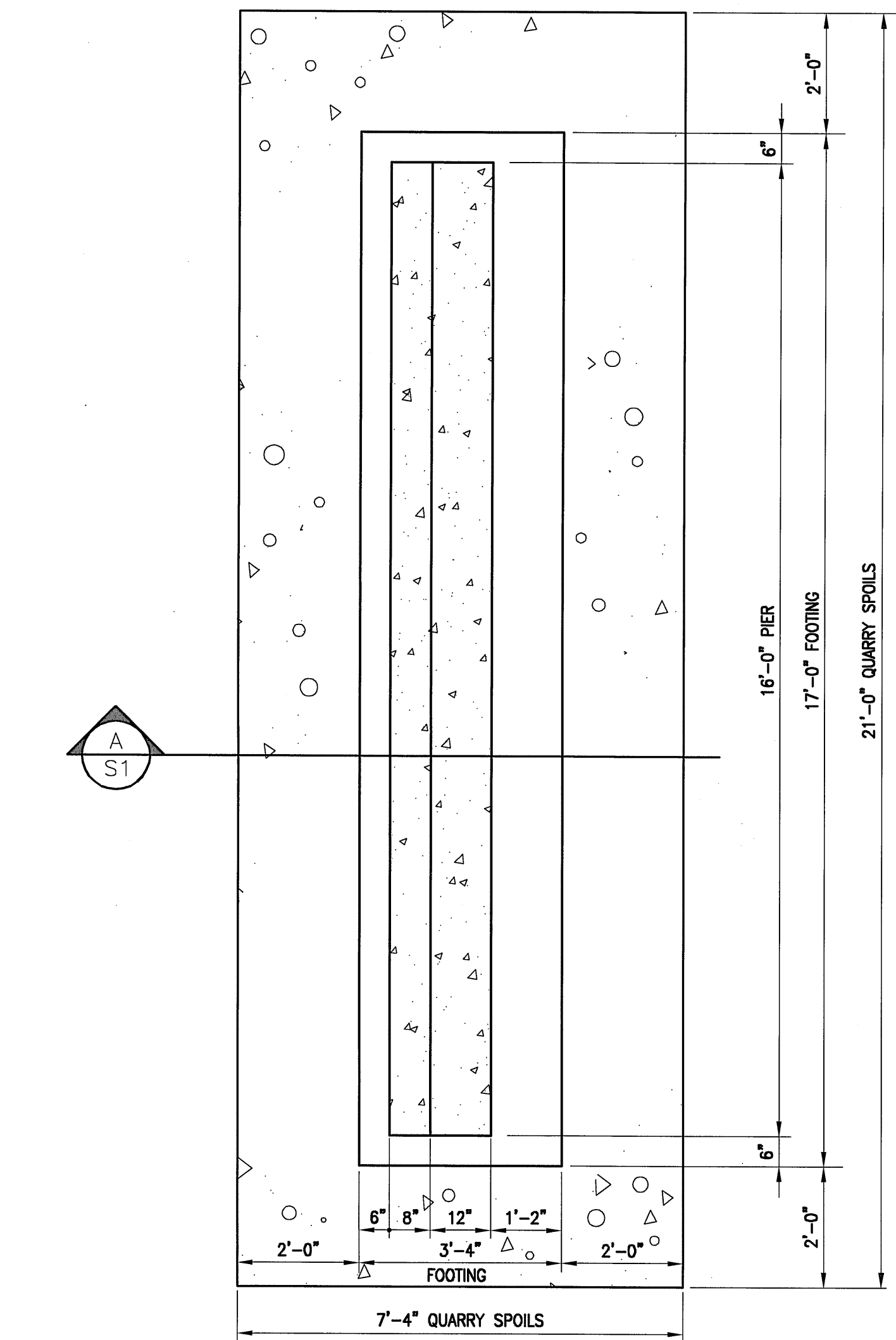
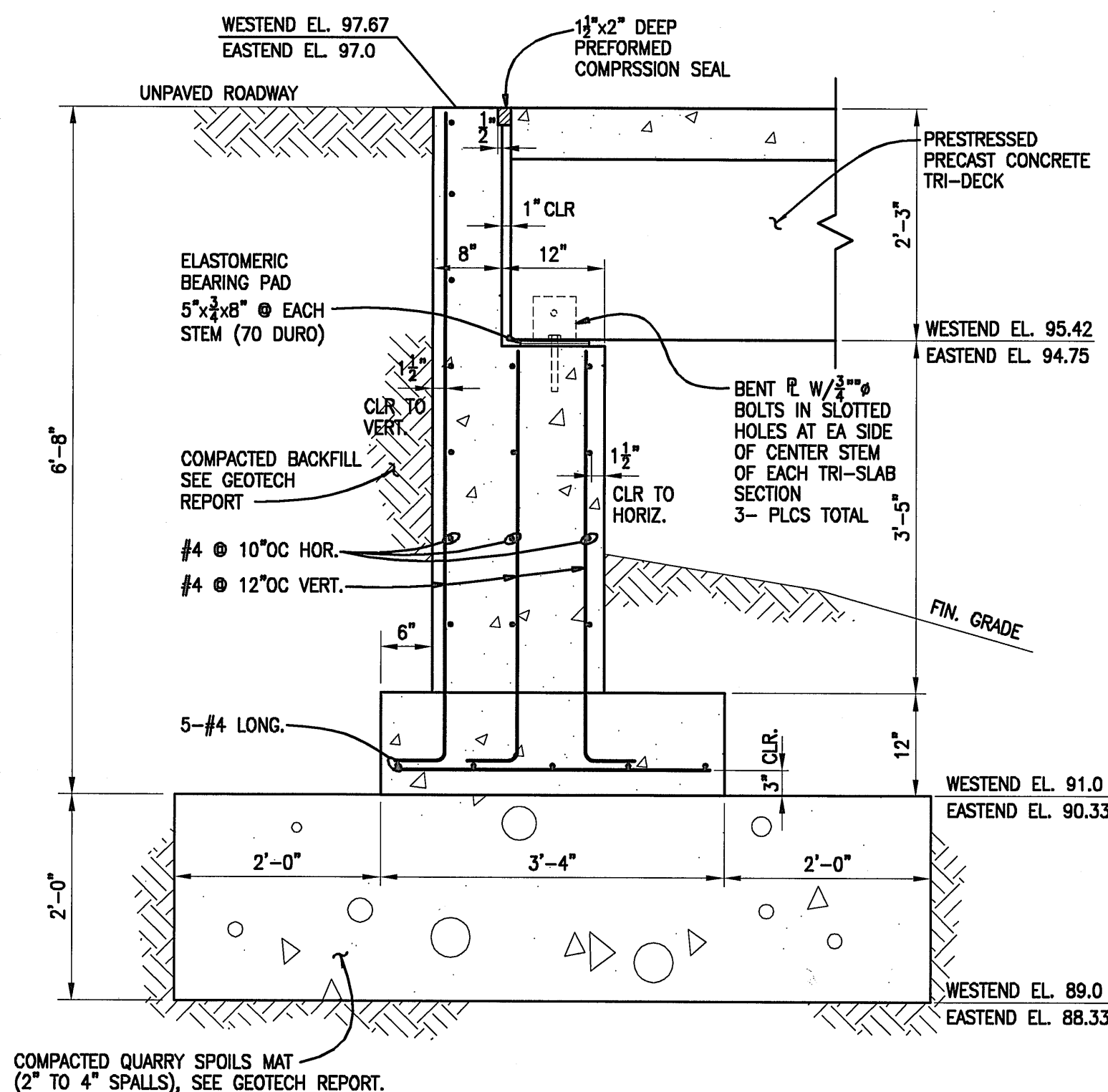




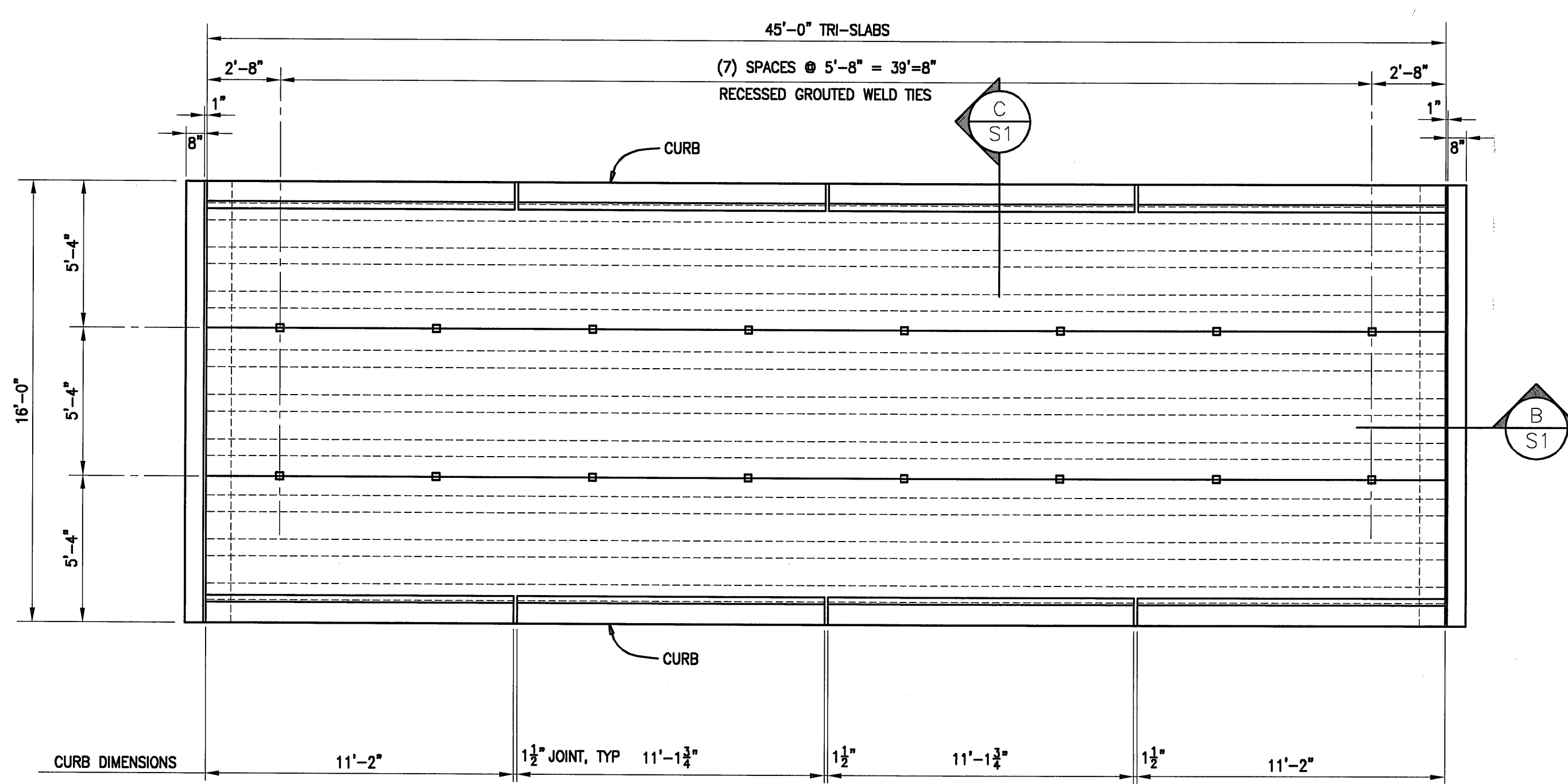
PIER AND FOOTING PLAN

SCALE: $\frac{1}{2}$ "=1'-0"



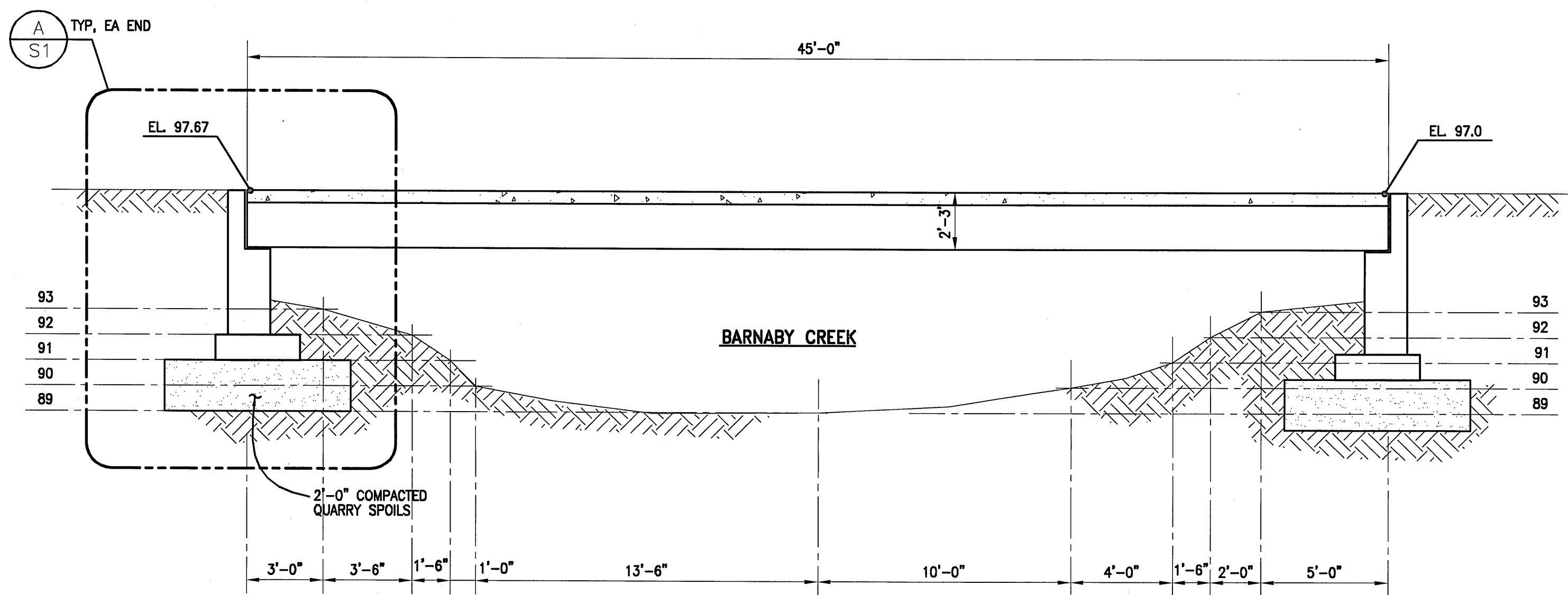
TYPICAL PIER SECTION

SCALE: $\frac{1}{2}$ "=1'-0"



BRIDGE PLAN

SCALE: $\frac{1}{2}$ "=1'-0"

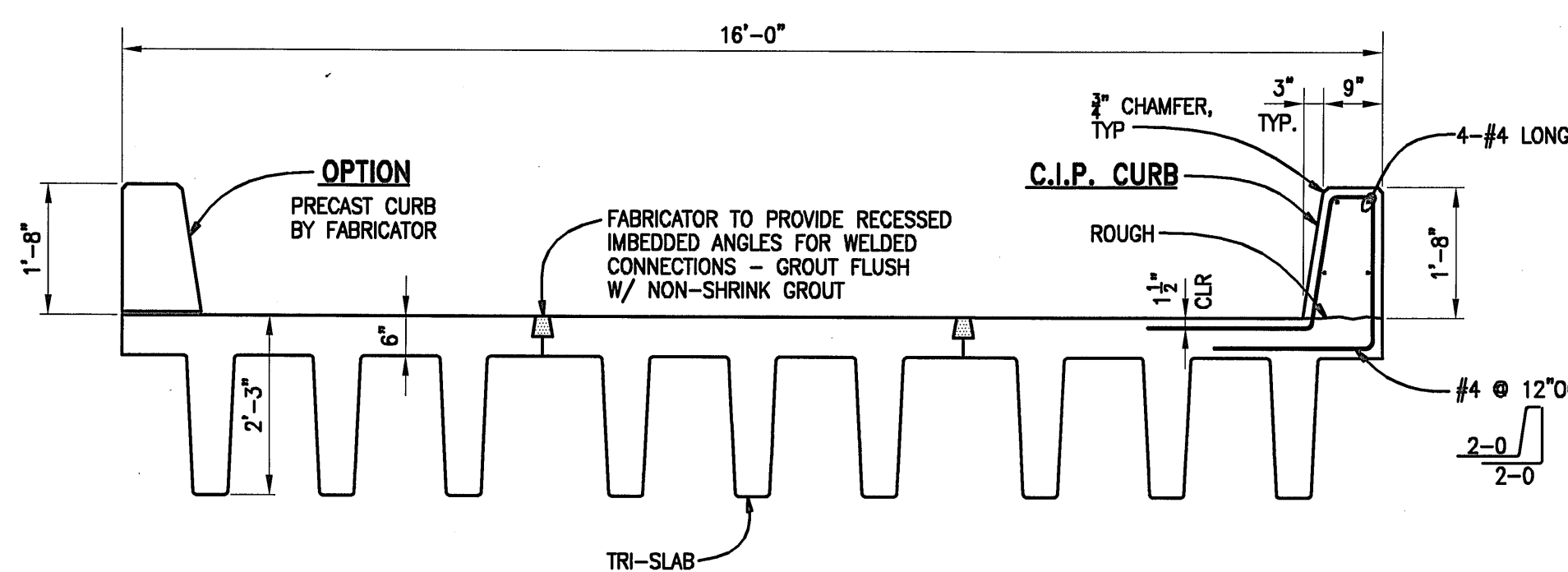


LONGITUDINAL BRIDGE SECTION

SCALE: $\frac{1}{2}$ "=1'-0"

NOTE:

ELEVATION PLOT SHOWN TAKEN @ CENTERLINE OF PROPOSED BRIDGE SHOWING APPROX. EXIST. GRADES.



TYPICAL BRIDGE SECTION

SCALE: $\frac{1}{2}$ "=1'-0"

STRUCTURAL NOTES

DESIGN:

1. THE PRECAST PRESTRESSED CONCRETE SECTION SHOWN IS BASED ON THE TRI-DECK SECTION FABRICATED BY CENTRAL PRE-MIX PRESTRESS COMPANY OF SPOKANE, WA. SUBMIT COMPLETE SHOP DRAWINGS AND CALCULATIONS STAMPED BY A LICENSED STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

LOADS:

- BRIDGE LIVE LOAD - HS-20 TRUCK LOADING.
- DEAD LOADS - AS DETERMINED FROM CONCRETE SECTIONS PLUS ALLOWANCE FOR A FUTURE WEARING SURFACE = 25psf.
- ALLOWABLE SOIL BEARING = 3000 psf.
- END BRIDGE PIERS - BACKFILL BEFORE INSTALLING TRI-DECK. EQUIVALENT FLUID PRESSURE = 35psf + TRAFFIC SURCHARGE EQUIVALENT OF 2'-0" SOIL.

CONCRETE:

PIER & FOOTINGS: f'_c = 3500psi AT 28 DAYS.
MIN. 6 SACK MIX

TRI-DECK: f'_c = 6000psi AT 28 DAYS, WITH APPROX 5% AIR

GROUT (NON-SHRINK): f'_c = 3500psi AT 28 DAYS.

REINFORCING: ASTM A706 GRADE 60 EXCEPT #3 BARS MAY BE GRADE 40. ALL REINFORCING REQUIRES SPECIAL INSPECTION. SUBMIT COMPLETE SHOP DRAWINGS FOR THE BRIDGE PIER AND FOOTING REINFORCING.

SOIL:

ALL DRAINAGE, EXCAVATION, RECOMPACTION AND STRUCTURAL FILL SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL ENGINEERING REPORT FOR THE PROPOSED BARNABY CREEK BRIDGE PREPARED BY ASSOCIATED EARTH SCIENCE, INC., DATED APRIL 13, 2005.

MISC. STEEL:

- ALL IMBEDDED AND EXPOSED STEEL MEMBERS, BOLTS, WASHERS SHALL BE GALVANIZED.
- ALL WELDING SHALL BE PERFORMED BY WABO CERTIFIED WELDERS.

OPTIONS:

CONTRACTOR MAY SUBSTITUTE PRECAST CONCRETE MEMBERS FOR THE CAST-IN-PLACE CONCRETE SHOWN ON THESE DRAWINGS. SUBMIT COMPLETE DETAILS AND CALCULATIONS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

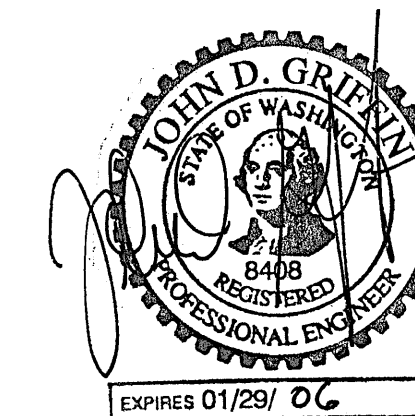
EXISTING BRIDGE:

SHALL BE COMPLETELY REMOVED OFF SITE PRIOR TO THE CONSTRUCTION OF THE NEW BRIDGE.

ROADWAY & PIERS:

REALIGN ROADWAY AS SHOWN ON THE SITE PLAN. APPROXIMATE QUANTITIES EXCLUDING ANY OVER EXCAVATION THAT MAY BE REQUIRED BY THE GEOTECHNICAL ENGINEER FOLLOWS:

STRUCTURAL FILL: 80 C.Y.
EXCAVATION: 70 C.Y.
QUARRY SPOILS: 23 C.Y.



JOHN D. GRIFFIN ENGINEERS, INC.

CIVIL/STRUCTURAL CONSULTING ENGINEER
KIRKLAND, WASHINGTON 98034
11680 SLATER AVENUE NE
(425) 823-9903 FAX (425) 821-9408

drawing:

project:

Barnaby Creek Bridge
Colville Confederated Tribes Indian Reservation
Ferry County, Washington

project number:

24094

drawn by:

TLT

checked by:

JDG

date:

6/2/05

revisions:

sheet:

S1

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