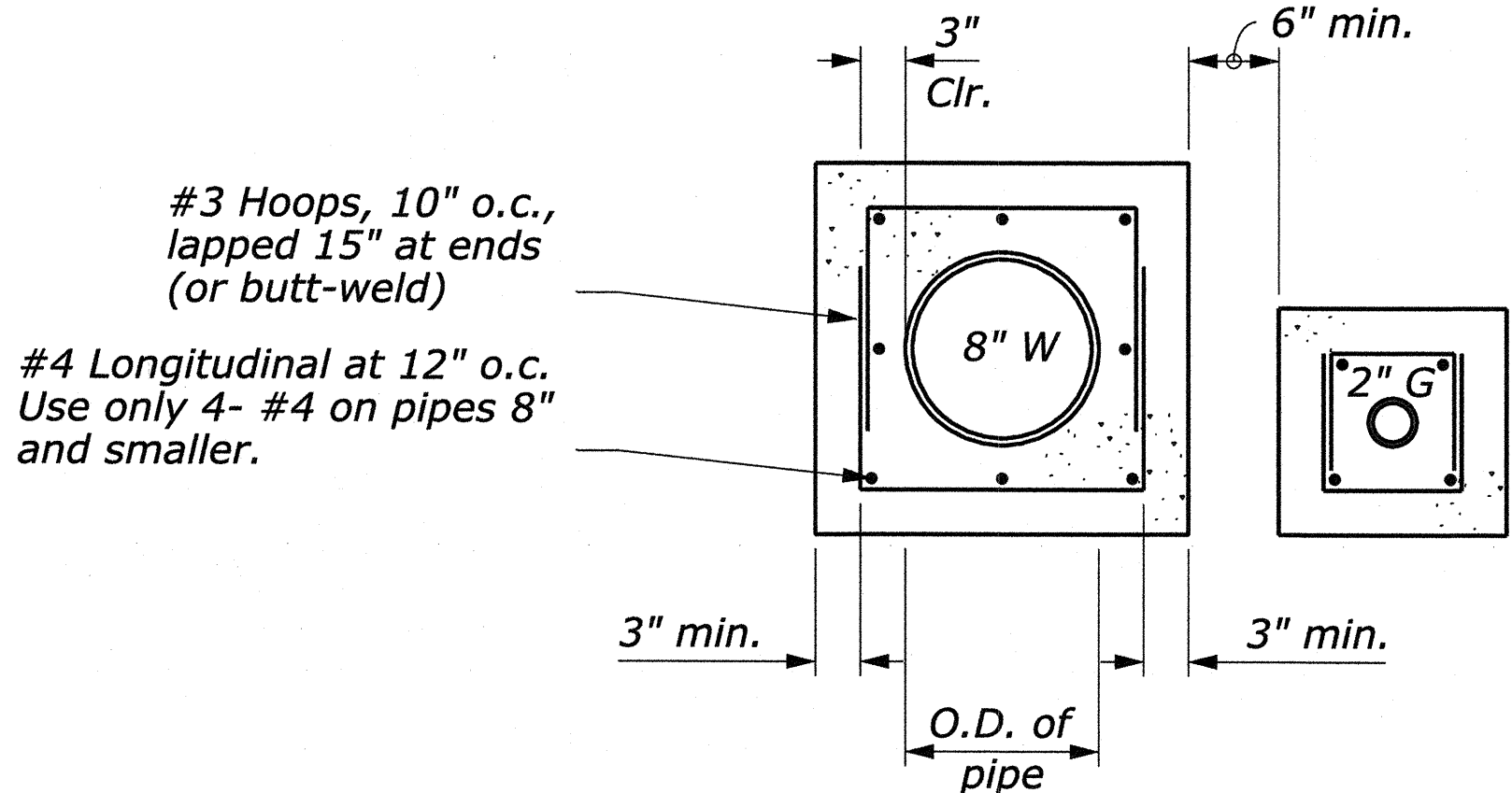


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STATE	PROJECT	SHEET NO.
HI	HI STP H1(1)	T2



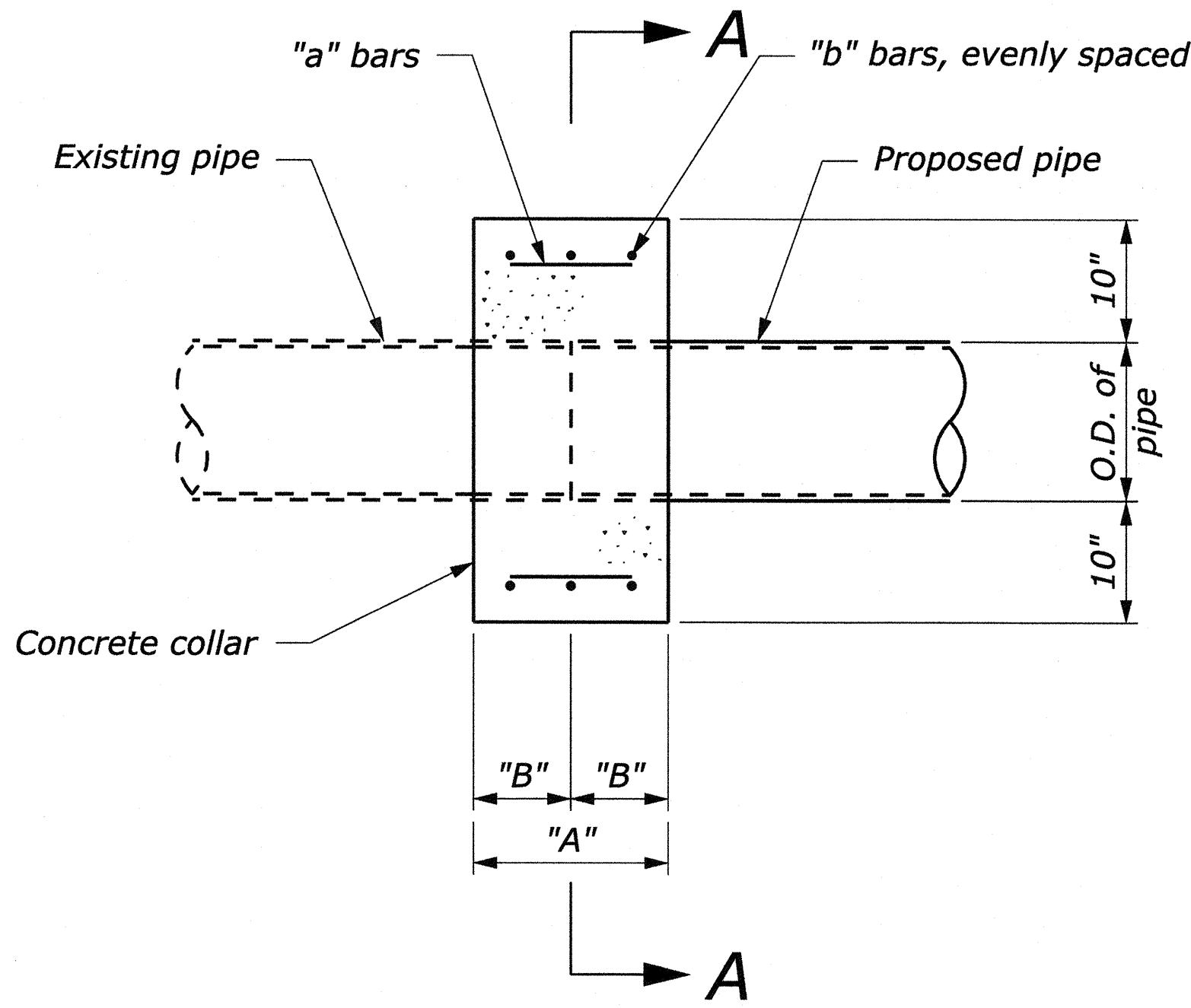
CONCRETE JACKET DETAIL

NOTES:

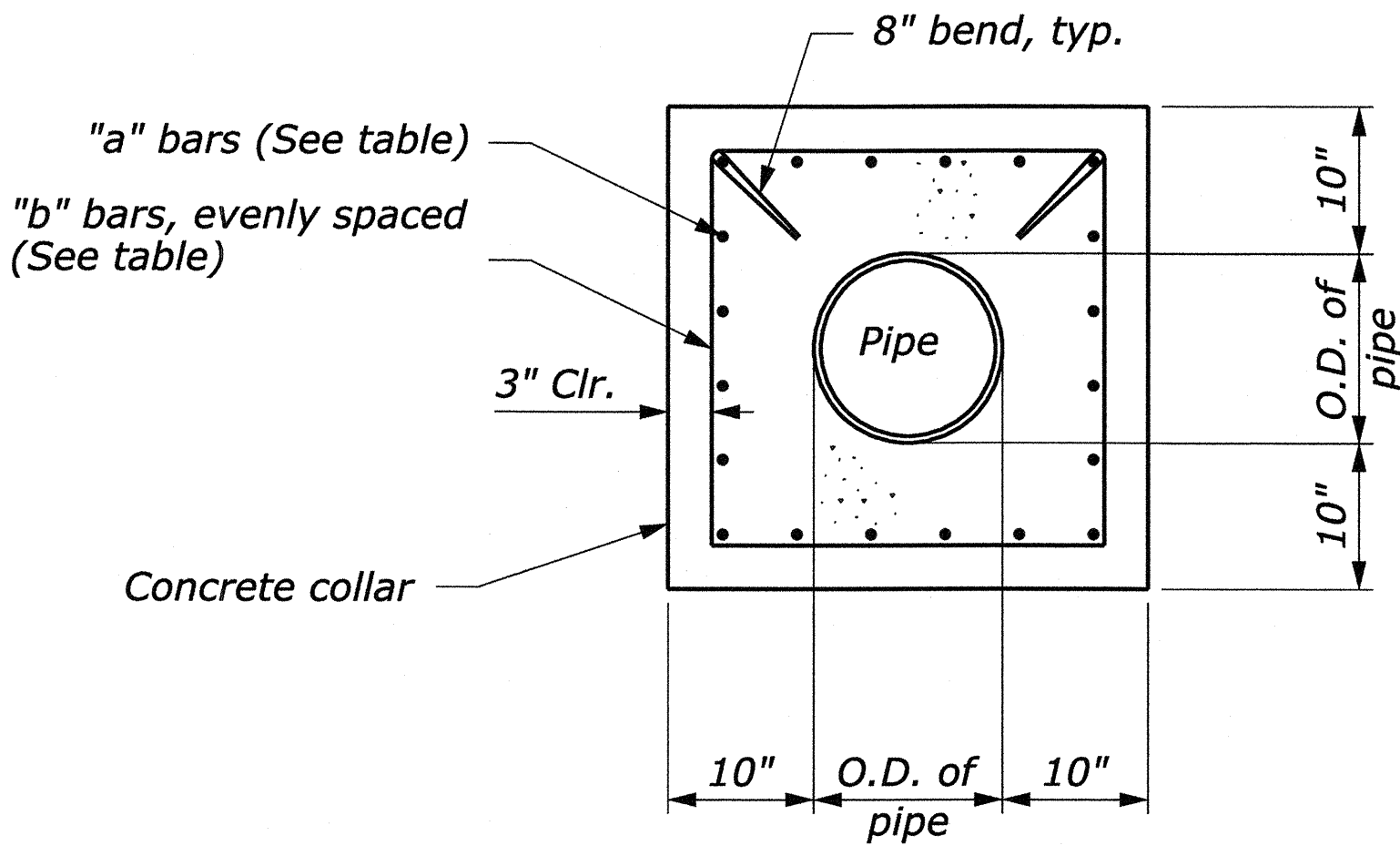
- MATERIALS:**
- Concrete shall be 4,000 psi compressive strength at 28 days.
 - Reinforcing steel shall conform to AASHTO M31 Grade 60 (ASTM A615 Grade 60) unless otherwise noted.
 - Reinforcing shall be ASTM A706 where welded connections are required.
 - Welded wire fabric reinforcement shall conform to AASHTO M55 (ASTM A185).

- CONSTRUCTION METHODS:**
- Except as otherwise noted, all vertical dimensions are measured plumb.
 - Exact location of reinforcing bars shall be so arranged that no interference will occur between vertical and horizontal reinforcing, so that the concrete can be properly placed and consolidated, and as directed by the Engineer.
 - All dimensions relating to reinforcing are to centers of bars unless otherwise noted.

- GENERAL NOTES:**
- All Concrete Collar & Jacket materials shall be incidental to the cost of the proposed pipe culvert will not be paid for separately.
 - The Contractor shall verify the location of all existing utility lines and notify the respective owners before commencing with work.
 - Except as otherwise notes on drawings, all exteriors corners and re-entrant angles 90 degrees or less in concrete work shall be chamfered 3/4"x3/4"



PLAN



SECTION A

Pipe Diameter	"a" bars	"b" bars	"A"	"B"
18" to 30"	#4 at 9"	3 - #4	24"	12"
36" to 48"	#5 at 9"	4 - #5	30"	15"

CONCRETE COLLAR DETAIL



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: *Jason Y. Kage* Expiration Date of the License: 04/30/2018

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY SPECIAL
**REINFORCED CONCRETE
COLLAR & JACKET DETAILS**

NO SCALE

SPECIAL
602-A