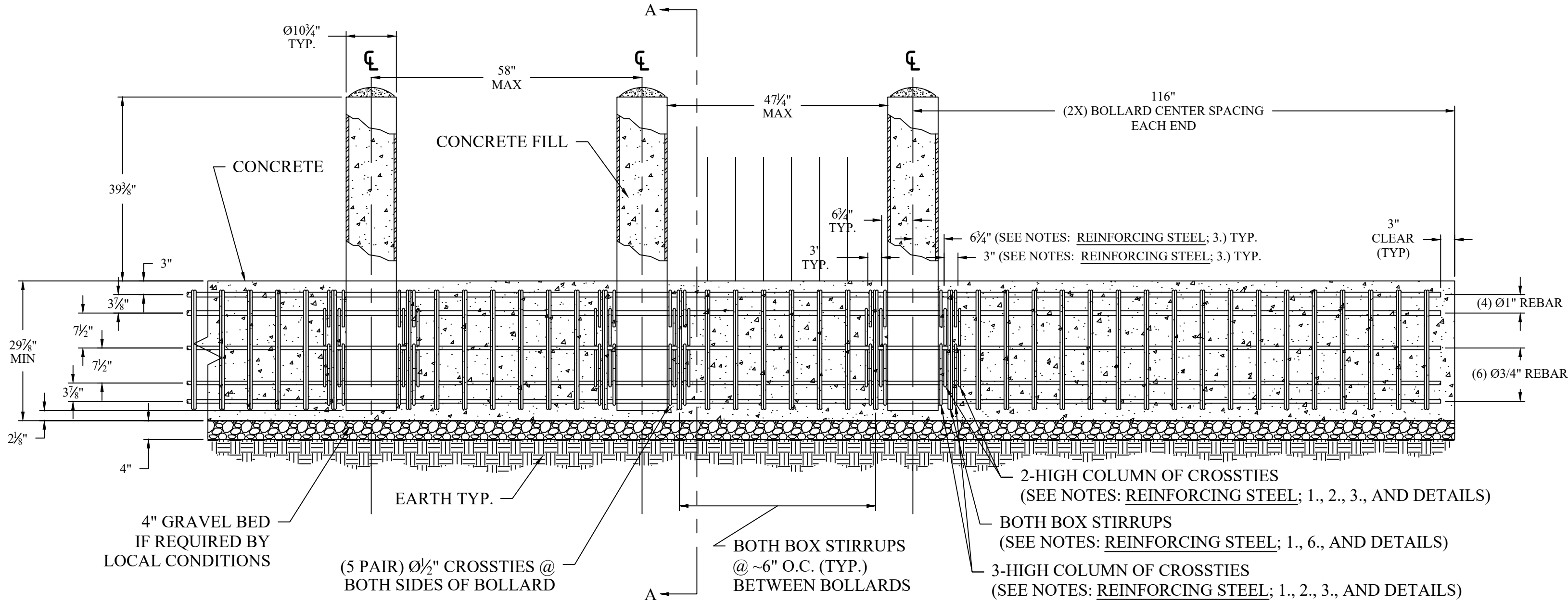
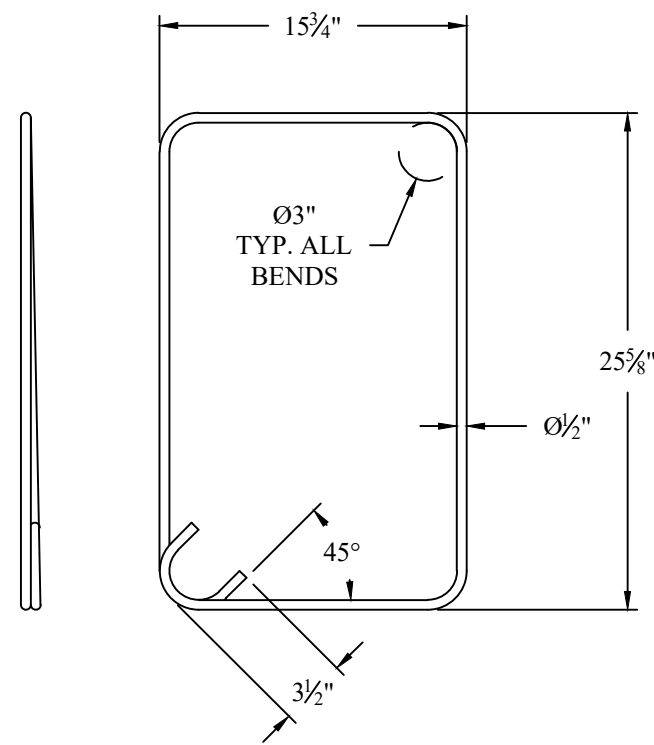


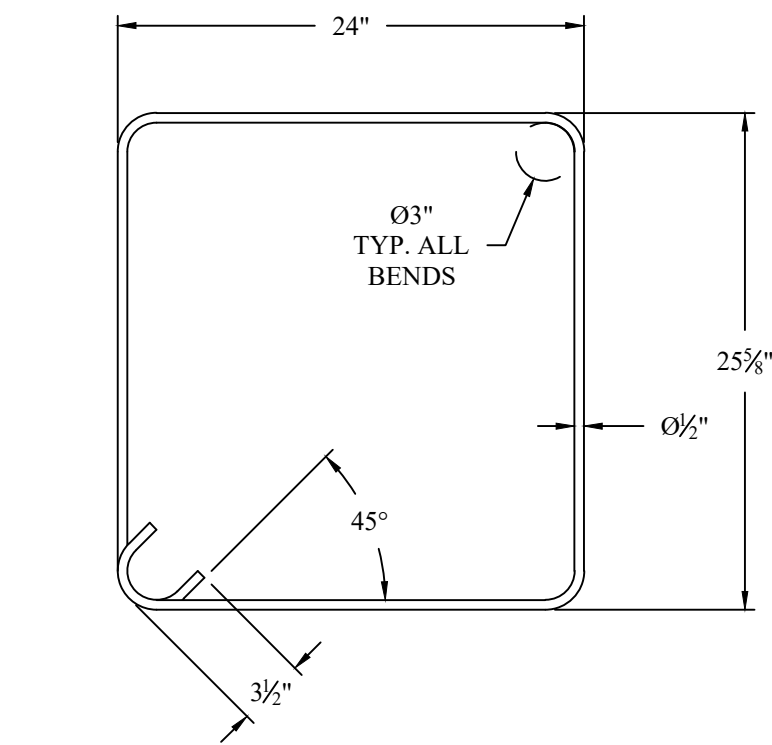
MATERIAL SPECIFICATIONS  
REINFORCED STEEL: fy = 60,000 PSI (MIN.)  
CONCRETE: fc = 3,000 PSI (MIN.) @ 28 DAY



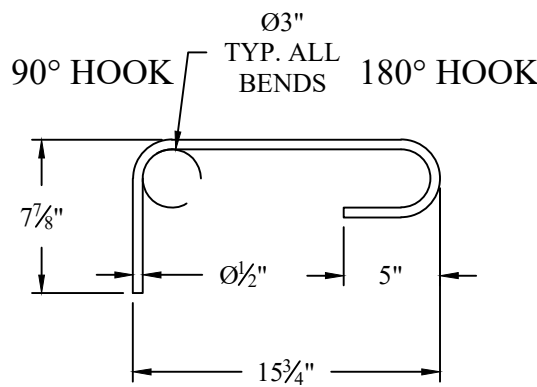
ATTACK SIDE VIEW  
(Ø1/2" TRANSVERSE REBAR OMITTED FOR CLARITY)



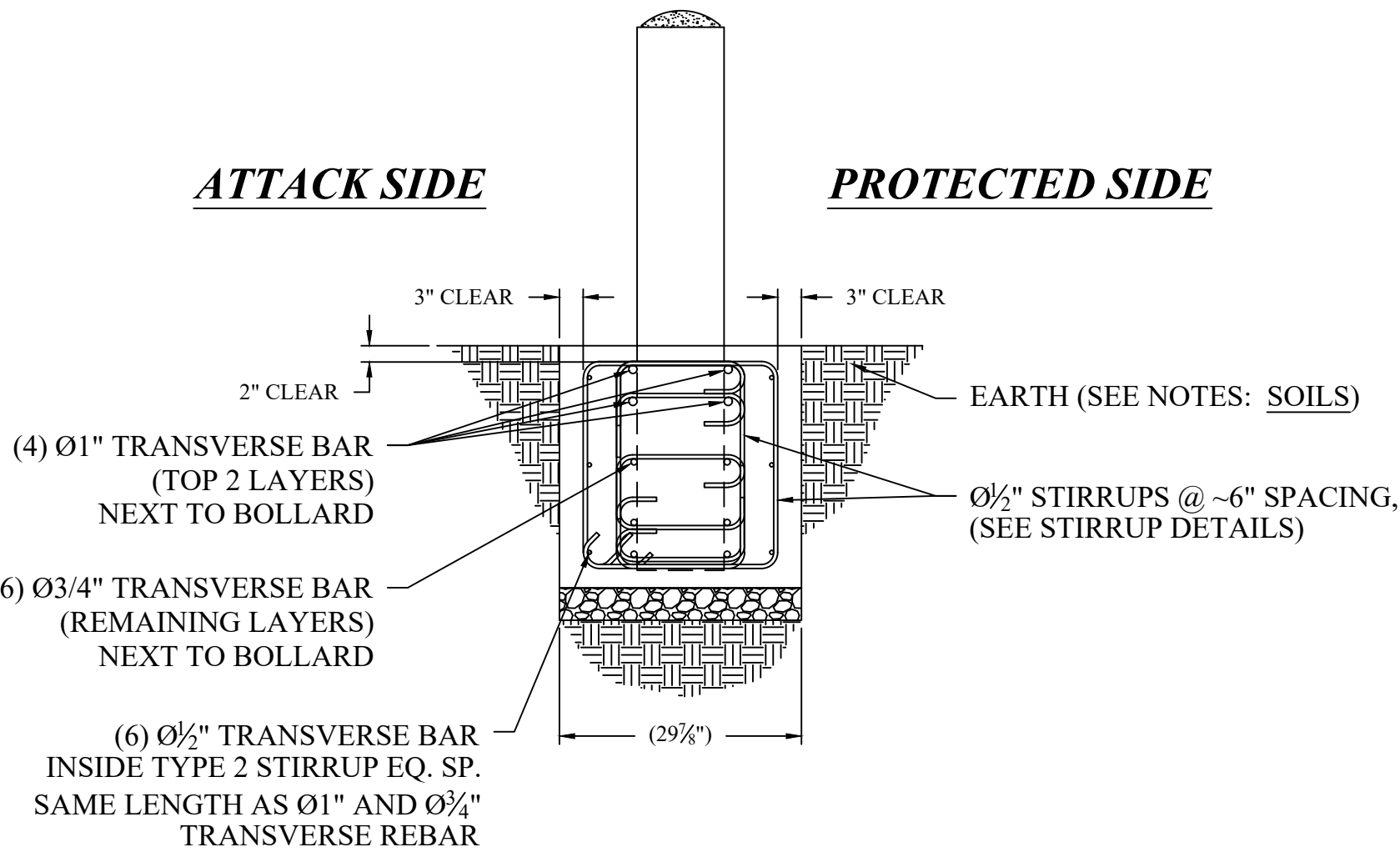
TYPE 1 STIRRUP  
DETAIL



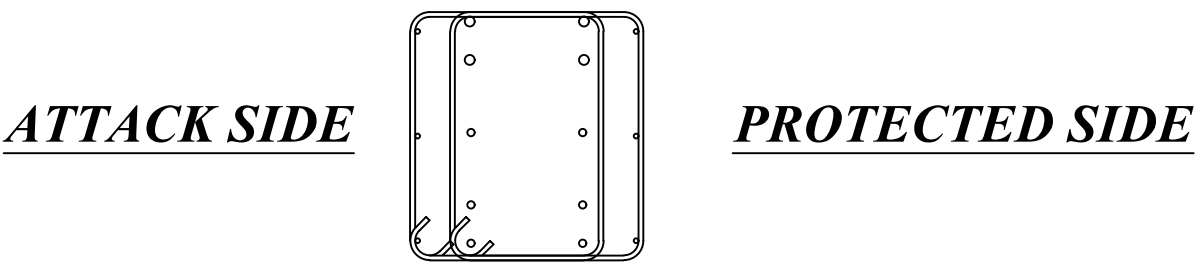
TYPE 2 STIRRUP  
DETAIL



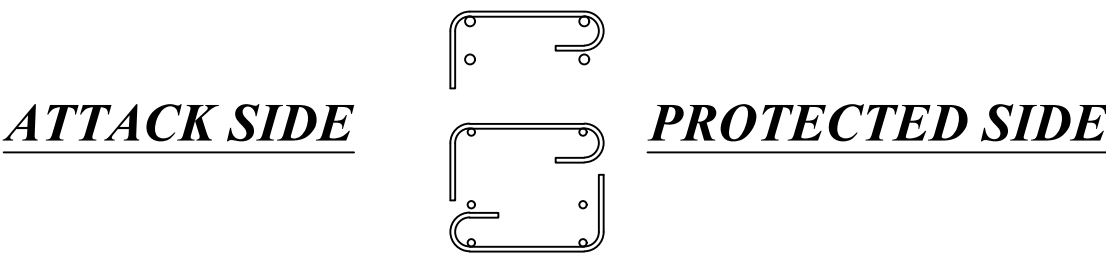
CROSSTIE DETAIL



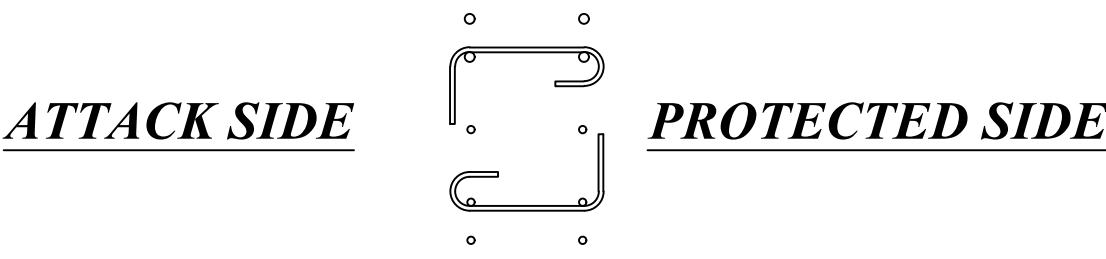
SECTION A-A



DETAIL B  
(TYPICAL STIRRUP ORIENTATION)



DETAIL C  
(TYPICAL 3-HIGH  
COLUMN OF CROSSTIES)



DETAIL D  
(TYPICAL 2-HIGH  
COLUMN OF CROSSTIES)

NOTES:


- CONCRETE  
CONCRETE WORK SHALL CONFORM TO CHAPTER 19 OF THE INTERNATIONAL BUILDING CODE (IBC). CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39 AND SHALL BE AS-FOLLOWS:
1. MINIMUM STRENGTH = 3,000 PSI @ 28 DAY
  2. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS (ALONG WITH TEST DATA COMPLIANT WITH IBC SECTION 1905) A MINIMUM OF 2 WEEKS PRIOR TO PLACING CONCRETE. NO WATER MAY BE ADDED TO THE MIX IN THE FIELD UNLESS SPECIFICALLY APPROVED IN WRITING BY THE CONCRETE SUPPLIER IN CONJUNCTION WITH THE CONCRETE MIX DESIGN.
  3. ALL EXPOSED CORNERS SHALL BE CHAMFERED TO 3/4".

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, Fy = 60,000 PSI
2. CROSSTIES HAVE A 90° HOOK AND A 180° HOOK AT EACH END. FOR FOUNDATION, THE 180° HOOK SHOULD BE PLACED AT THE ATTACK SIDE FOR THE BOTTOM 2 LAYERS AND ON THE PROTECTED SIDE FOR THE TOP 3 LAYERS.
3. QUANTITY OF CROSSTIES IS 20 EACH PER BOLLARD.
4. FOUNDATION SIDE TRANSVERSE RODS QTY 6 EACH #4 REBAR.
5. BOLLARD SIDE TRANSVERSE RODS QTY 4 EACH #8 AND 6 EACH #6.
6. STIRRUPS, TYPE 1 AND TYPE 2, @ 6" O.C.

SOILS

ALL BACKFILL SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF ASTM F-2656-07 SECTION 7.2.2. IF THE LATERALS CAPACITY OF THE EXISTING SOIL IS NOT IN CONFORMANCE WITH THE REQUIREMENTS, THEN THE EXISTING SOIL SHALL BE REPLACED WITH SOIL MEETING THOSE REQUIREMENTS.

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.xx	Decimal	± .030	OFF DRAWING			
.xxx	Decimal	± .020				
.xxxx	Decimal	± .010	Angular ± 0.5°			
REVISION HISTORY						DRAWING NO: DS-25 FOUNDATION
REV	ECN	AUTHOR	DATE	DESCRIPTION		
C		DM	01/29/25	STIRRUP TYPE 1: 15-3/4" WAS 11.8"		
D	MB	DM	02/04/25	FOUNDATION EDGE DISTANCE		
TITLE: DS-25 FOUNDATION						SHEET: 1 of 1
DATE: 01/29/25				DRN BY: DM		
				REV: C		