

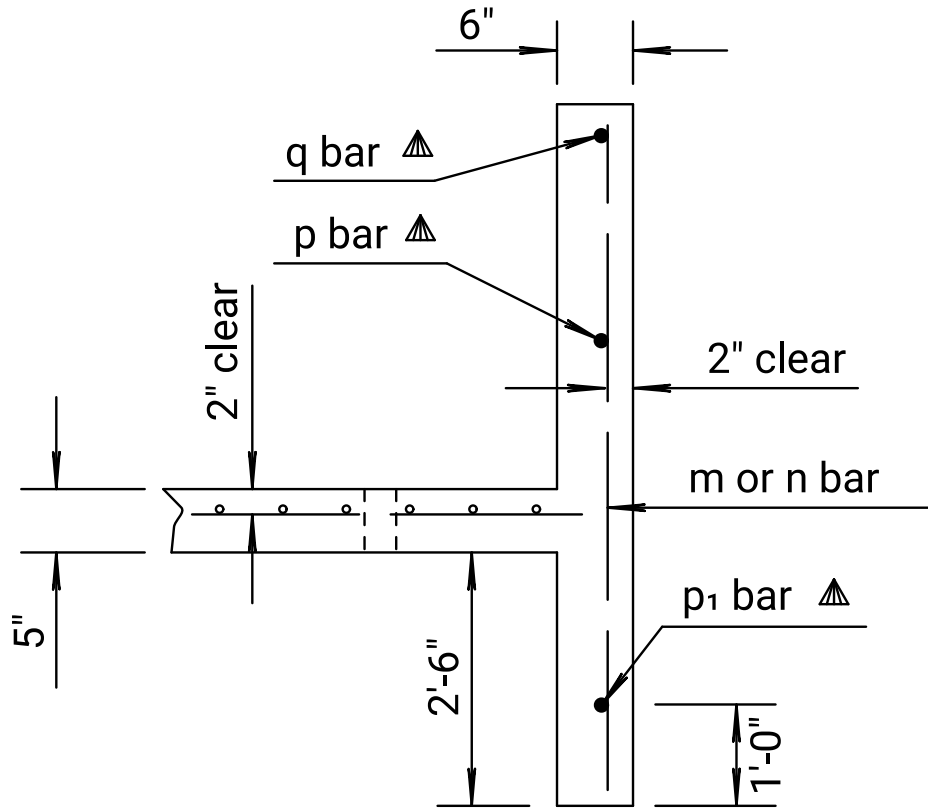
Note to the Designer: See the appropriate culvert standard drawings for the required dimensions and angles.

Plotted by : pwmushock 25-JUL-2022 14:15
File : rd520.dgn

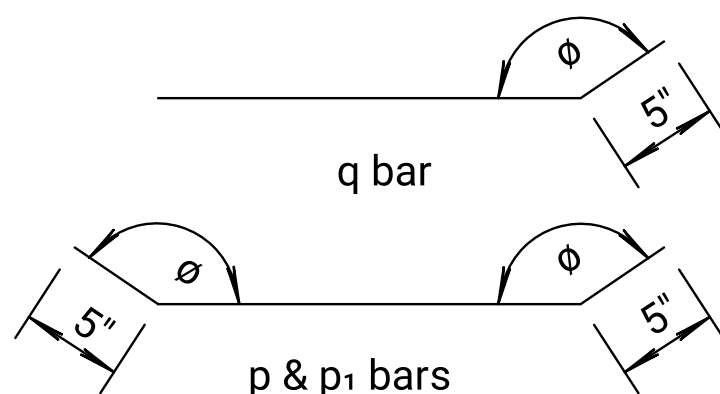
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		0	0	

GENERAL NOTE
CONCRETE: Concrete Grade 4.0 shall be used throughout. All exposed edges shall be finished with an edging tool.
REINFORCING: All dimensions are to L of bar except where noted. All reinforcing bars are No. 4. Reinforcing bars shall be Grade 60 billet steel. Minimum clearance on all reinforcement shall be 2".
Welded wire reinforcement shall be paid as pounds of reinforcing steel.
When holes in the apron are warranted by drainage conditions they shall be constructed as directed by the Engineer.

▲ Drill and grout p and q bars into wingwalls and p₁ bar into wing footings when the soil saver end wall is constructed separately from the wingwalls. Drilling and grouting shall be Subsidiary to the bid item "Reinforcing Steel".



SECTION X-X



BENDING DIAGRAMS

SUMMARY OF SOIL SAVERS

Station	Culvert Size	Side	Z	Skew

02	04-28-05	Chg. Class to Grade concrete, WWR	S.W.K.	J.O.B.
01	08-01-00	Revised Drill & Grout Note	R.J.S.	J.O.B.

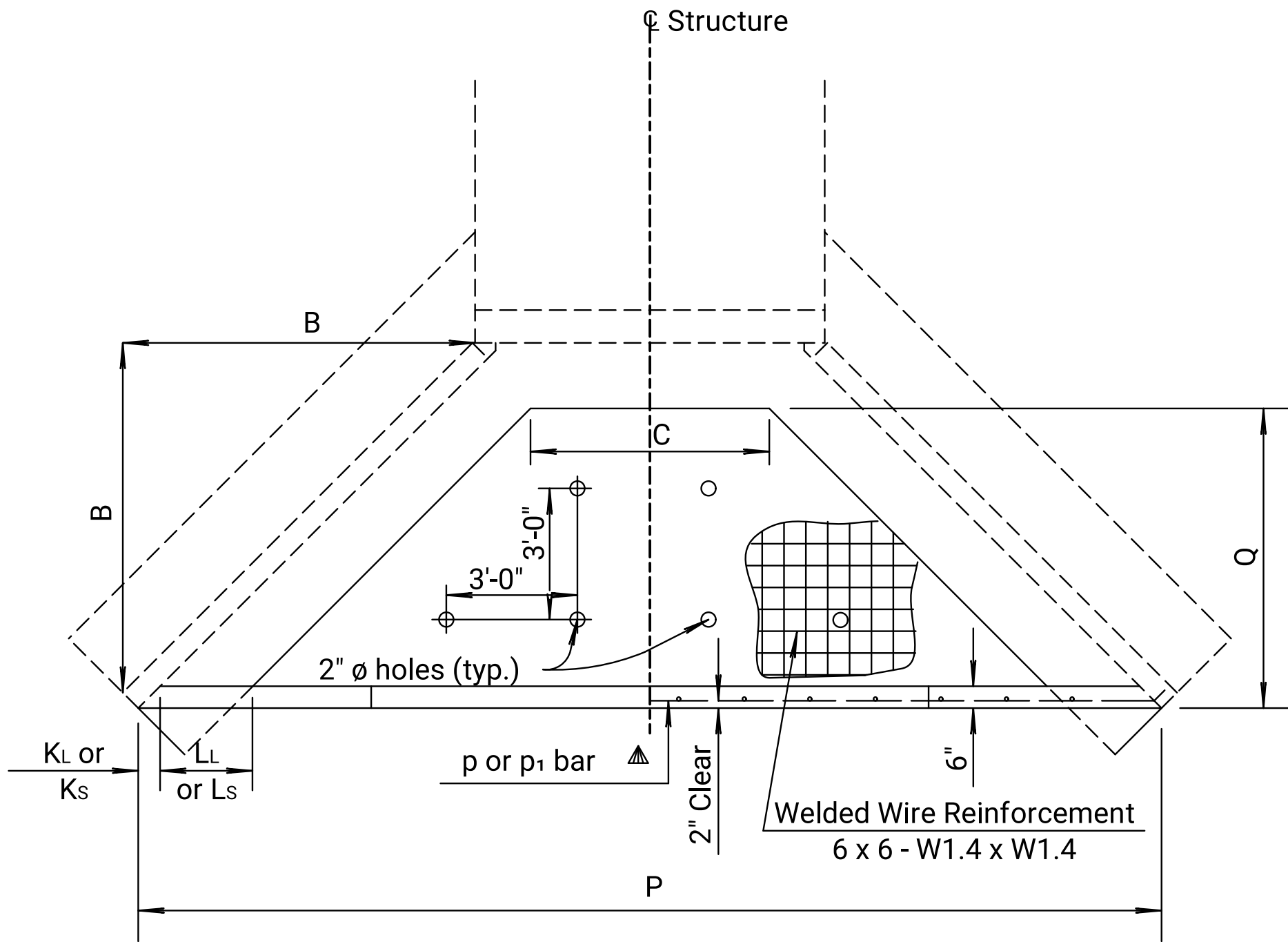
NO.	DATE	REVISIONS	BY	APPD
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SOIL SAVER
FOR R.C. CULVERTS

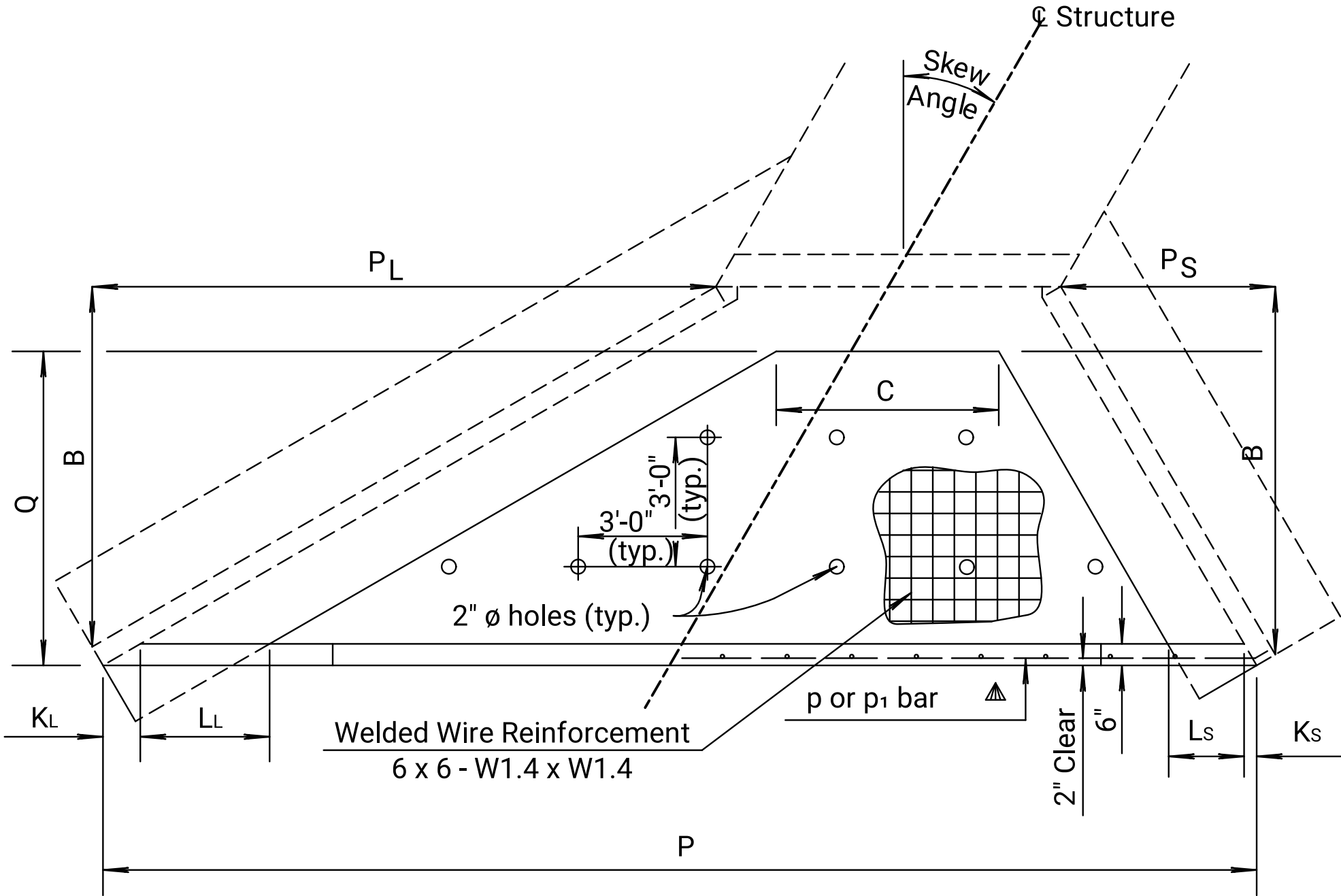
RD520

DESIGNED	06-10-05	APPD.	James O. Brewer
QUANTITIES	DESIGNED	DESIGNED	DESIGNED
QUAN.CK.	DESIGNED	DESIGNED	DESIGNED

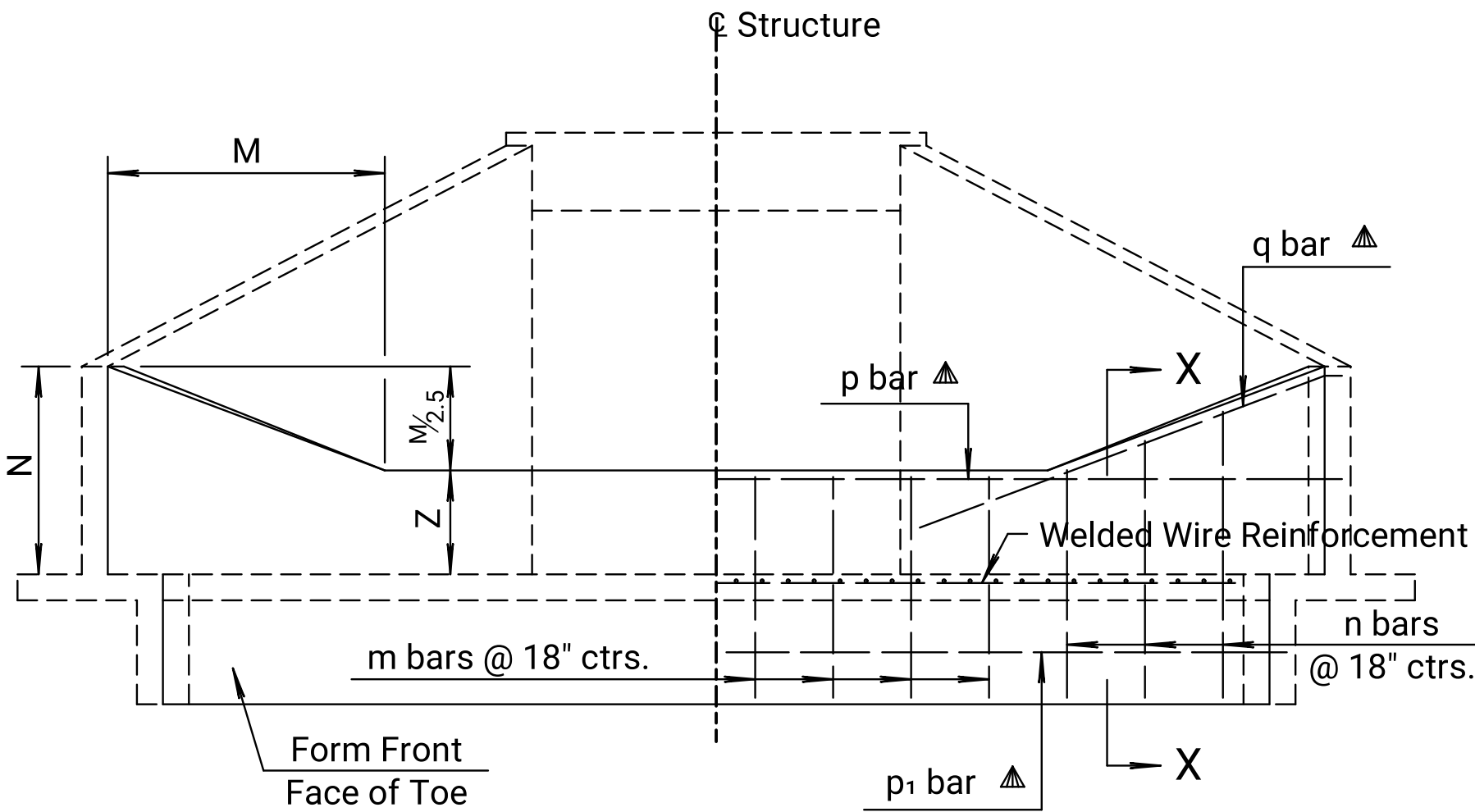
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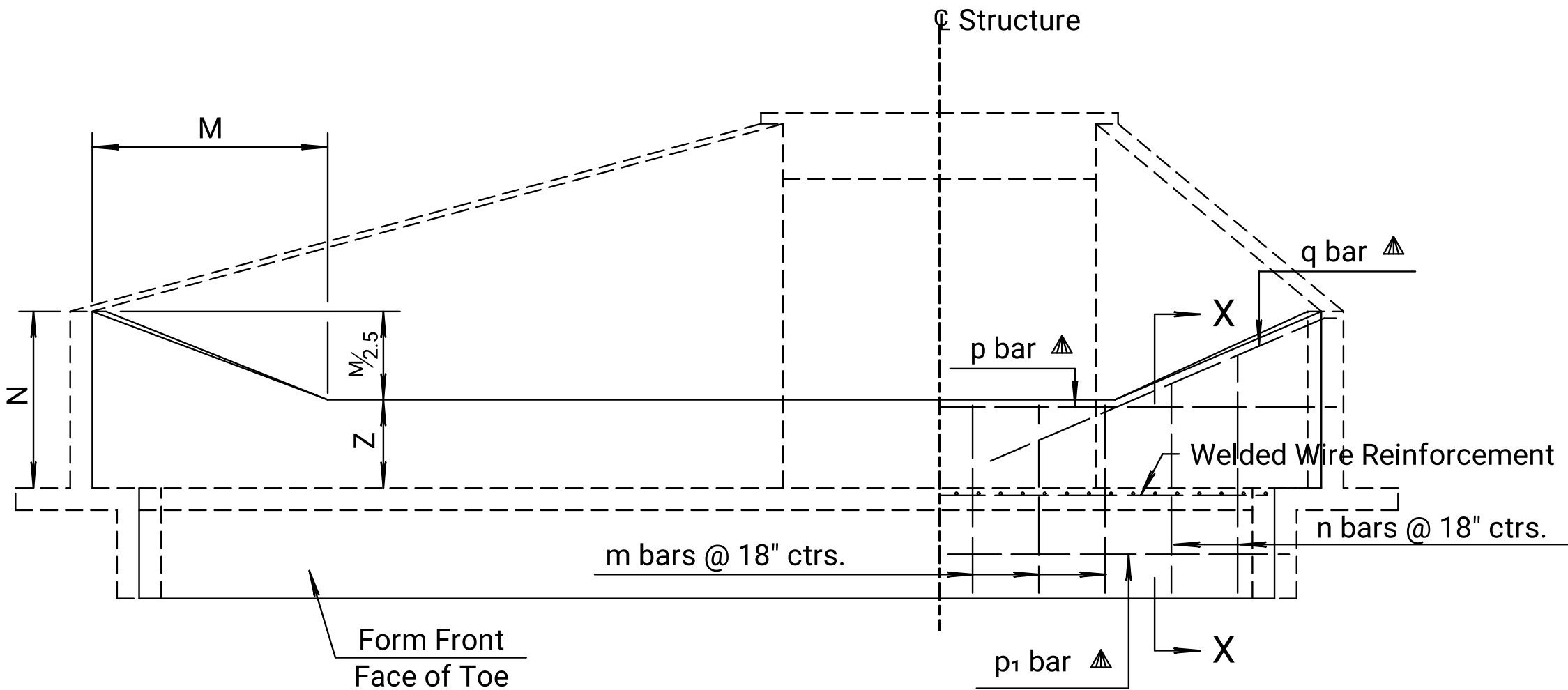
PLAN



PLAN - SKEW



ELEVATION AND SECTION



ELEVATION AND SECTION

STATION	SIDE				Skew		Z=	
Letter	B	C	K _L	K _S	L _L	L _S	M	N
Dimension								
Bar	m	n *	p	p ₁	q		Sq. Ft. WWR	
Number							Grade 4.0 Conc.	Cu.Yd.
Length							Reinf. steel	Lbs.

STATION	SIDE				Skew		Z=	
Letter	B	C	K _L	K _S	L _L	L _S	M	N
Dimension								
Bar	m	n *	p	p ₁	q		Sq. Ft. WWR	
Number							Grade 4.0 Conc.	Cu.Yd.
Length							Reinf. steel	Lbs.

STATION	SIDE				Skew		Z=	
Letter	B	C	K _L	K _S	L _L	L _S	M	N
Dimension								
Bar	m	n *	p	p ₁	q		Sq. Ft. WWR	
Number							Grade 4.0 Conc.	Cu.Yd.
Length							Reinf. steel	Lbs.

STATION	SIDE				Skew		Z=	
Letter	B	C	K _L	K _S	L _L	L _S	M	N
Dimension								
Bar	m	n *	p	p ₁	q		Sq. Ft. WWR	
Number							Grade 4.0 Conc.	Cu.Yd.
Length							Reinf. steel	Lbs.

STATION	SIDE				Skew		Z=	
Letter	B	C	K _L	K _S	L _L	L _S	M	N
Dimension								
Bar	m	n *	p	p ₁	q		Sq. Ft. WWR	
Number							Grade 4.0 Conc.	Cu.Yd.
Length							Reinf. steel	Lbs.

STATION	SIDE				Skew		Z=	
Letter	B	C	K _L	K _S	L _L	L _S	M	N
Dimension								
Bar	m	n *	p	p ₁	q		Sq. Ft. WWR	
Number							Grade 4.0 Conc.	Cu.Yd.
Length							Reinf. steel	Lbs.

Quantities include apron and soil saver end wall.

* n bars are variable, increase by increments of 7". Cut 2 each length.