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SPECIFICATIONS

DESIGN: Load Factor Design per AASHTO Standard Specifications for Highway Bridges 1992 and Interim Specifications 1995.

CONSTRUCTION: State of Maine, Dept. of Transportation, Standard Specifications, Highways and Bridges, Revision of April 1995.

MATERIALS

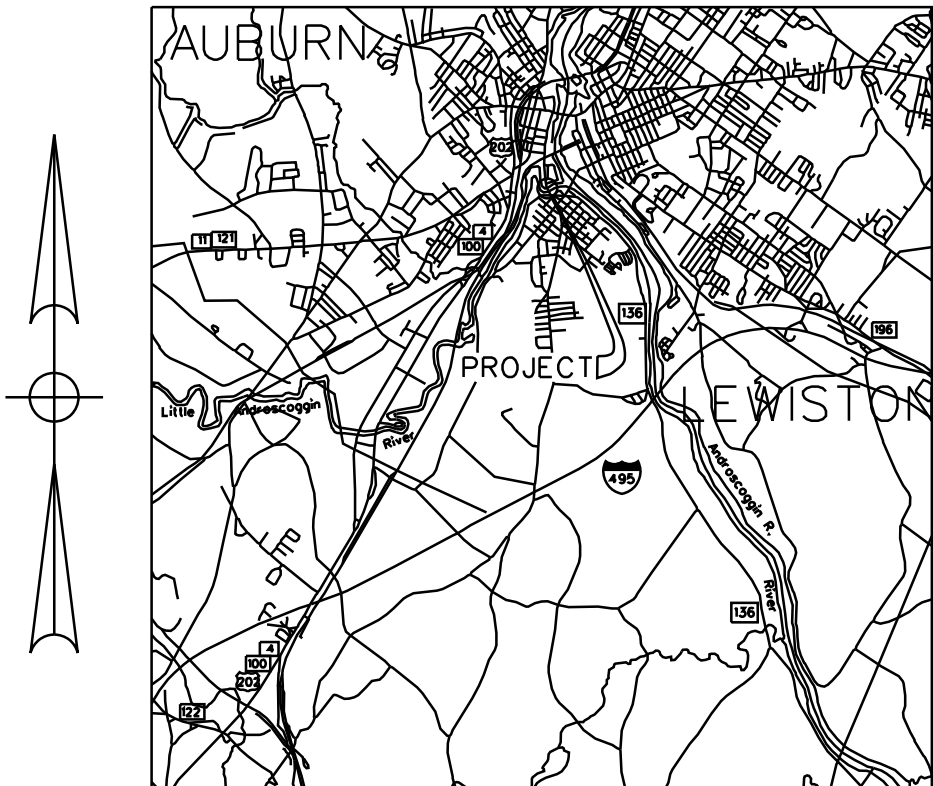
Concrete: Class "A"
Reinforcing Steel: ASTM A615, Grade 60

BASIC DESIGN STRESSES

Concrete: f'c = 4000 psi
Reinforcing Steel: fy = 60,000 psi

RETAINING WALL
AT
IRON BRIDGE
IN THE CITY OF
AUBURN
ANDROSCOGGIN COUNTY

PROJECT NO. 005253.00



LOCATION MAP



PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
5253.00	2	6

203.25	GRANULAR BORROW		300	CY
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES		150	CY
502.219	STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	(CY)	103	LS
503.12	REINFORCING STEEL, FABRICATED AND DELIVERED		8200	LB
503.13	REINFORCING STEEL, PLACING		8200	LB
511.07	COFFERDAM:		1	LS
512.08	FRENCH DRAINS		34	LF
514.06	CURING BOX FOR CONCRETE CYLINDERS		1	EACH
639.23	TESTING FACILITIES - CONCRETE		1	LS

GENERAL NOTES

1. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
2. All embankment material, except as otherwise shown, placed below Elevation *, shall be granular borrow meeting the requirements of Subsecton 703.19, Material for Underwater Backfill.

RETAINING WALL
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ESTIMATED QUANTITIES &
GENERAL NOTES



The Contractor shall submit to the engineer the anchoring system of choice with calculated embedment lengths based upon the adhesion values of the anchoring system. All work and materials shall be as approved by the Engineer.

The Contractor shall be responsible for any damage to the existing abutment and wall to remain. Cost of repairing abutment and wall to remain will be at the Contractors expense.

RETAINING WALL
AT
IRON BRIDGE
IN THE CITY OF
AUBURN
ANDROSCOGGIN COUNTY
RETAINING WALL

PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
5253.00	4	6

RETAINING WALL NOTES

Reinforcing steel shall have 2 inches cover unless otherwise indicated.

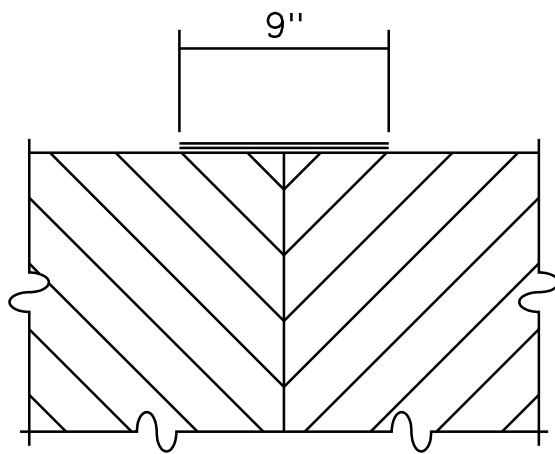
A membrane waterproofing joint cover shall be used at the vertical joint between the existing abutment and the new retaining wall.

Place two four inch diameter drains in the retaining wall at approximatly ten foot spacing. Exact location to be determined by the Engineer in the field.

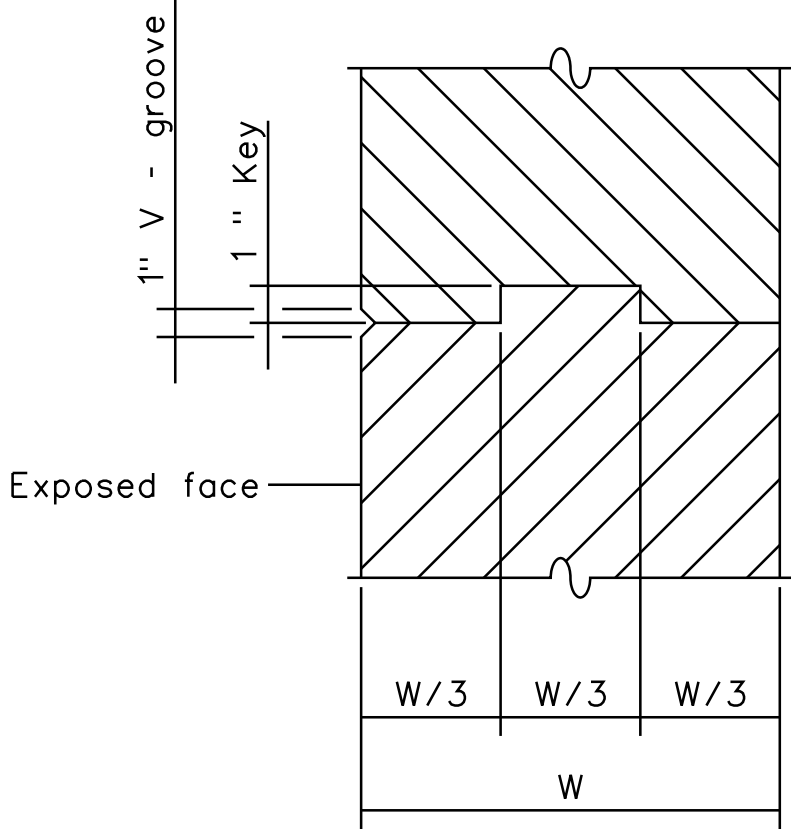
Maximum calculated footing pressure is 3.8 tons/sq. ft.

All deteriorated ledge shall be removed so that the entire footing will rest on sound bedrock.

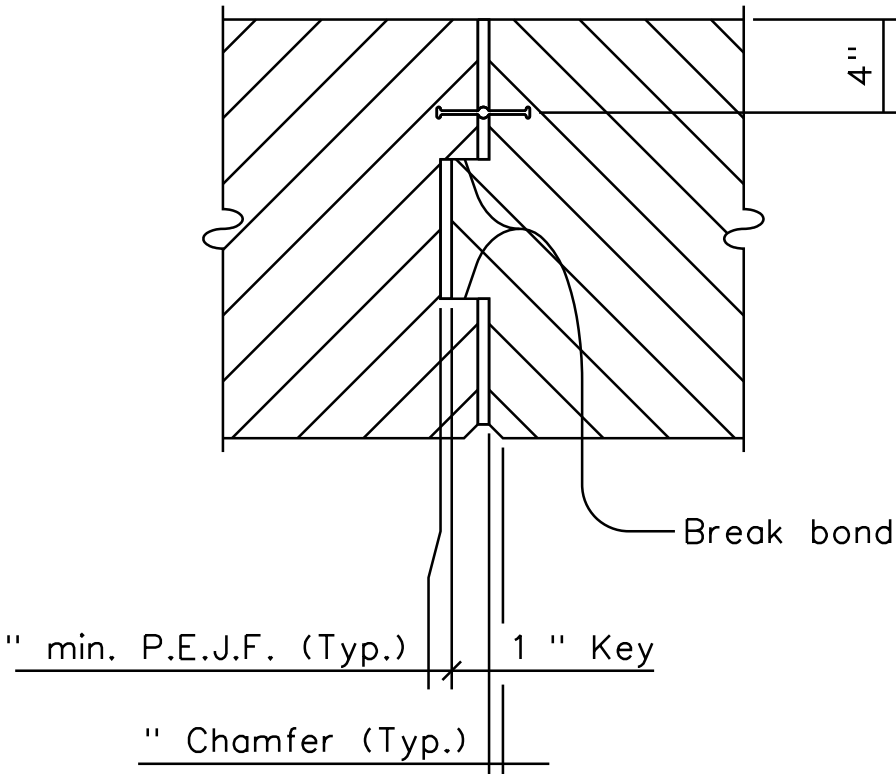
If ledge is encountered above EL. 27.0 either ledge can be excavated to elevation 27.0, or the elevation of the top of the footing (EL. 30.0) may be changed to a higher elevation to facilitate a three foot minimum footing thckness. Any such changes shall be as approved by the Engineer in the field and payment for these adjustments shall be considered incidental to contract items.



-- JOINT COVER --
Apply one (1) layer of membrane waterproofing in accordance with Section 508 of the Standard Specifications.

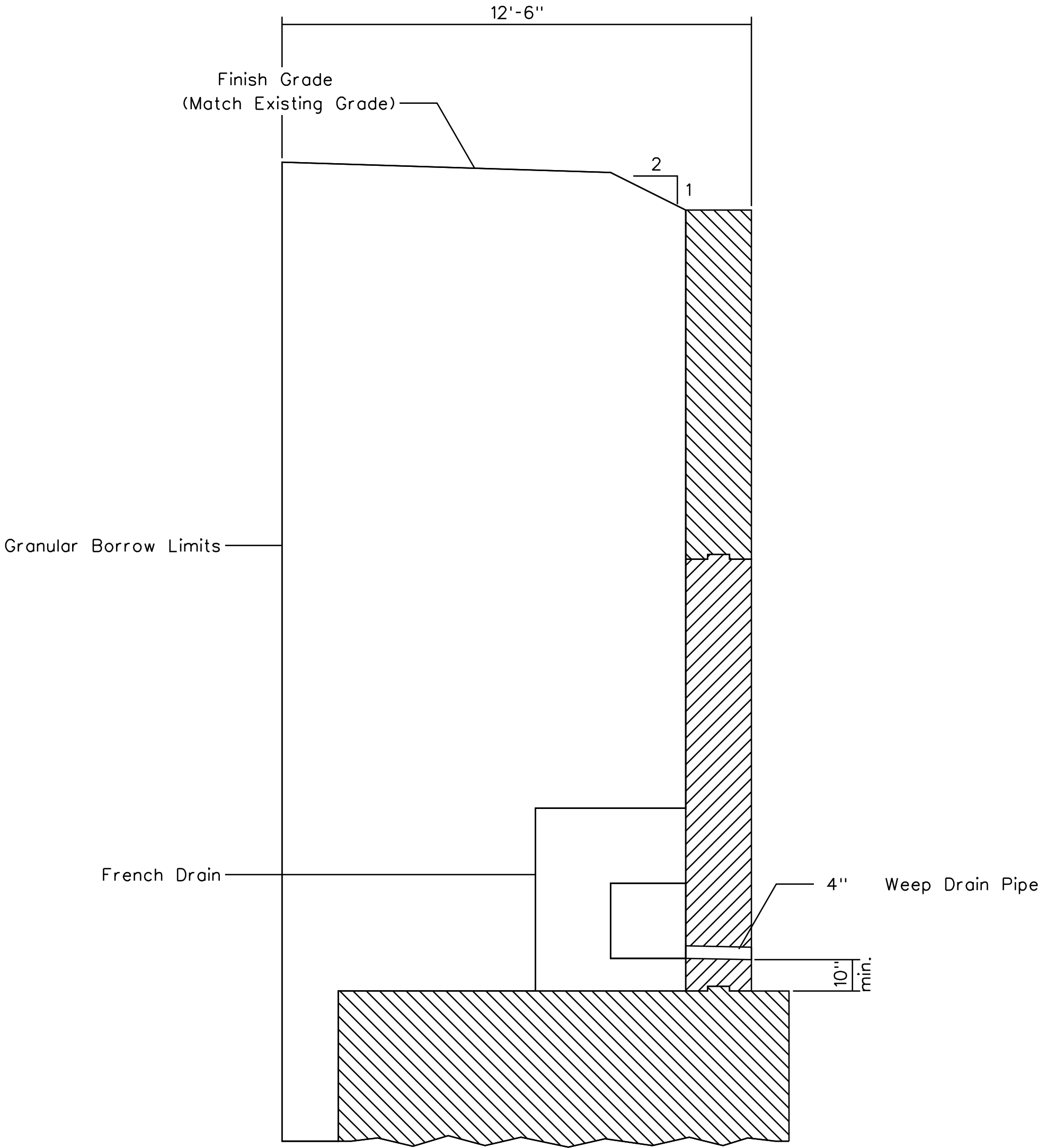


-- HORIZONTAL CONSTRUCTION JOINT --



-- VERTICAL EXPANSION JOINT --
P.E.J.F = Preformed Expansion Joint Filler

CONCRETE JOINTS



GRANULAR BORROW AND DRAINAGE DETAIL

RETAINING WALL
AT
IRON BRIDGE
IN THE CITY OF
AUBURN
ANDROSCOGGIN COUNTY
RETAINING WALL DETAILS

PROJECT DESIGN ENGINEER	BY	DATE
DESIGN-DETAILED	LK	M. Parlin 7/96
CHECKED		
REVISIONS		
FIELD CHANGES		

LK M. Parlin 7/96

PLANS

REBAR01

rebar01_rebar01.dgn

REINFORCING STEEL SCHEDULE																											
STRAIGHT BARS												BENT BARS															
MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION	
A500	23	3'-5"	Retaining Wall (Vert.)									A850	67	7'-0"	L	5'-8"	1'-4"	--	--	--	--	--	--	--	--	--	Footing (Vert.)
A501	23	13'-3"	---																								
												A852	67	12'-10"	L	11'-6"	1'-4"	--	--	--	--	--	--	--	--	--	Footing (Horiz.)
A503	8	33'-3"	Footing (Horiz.)																								
A505	4	6'-7"	Retaining Wall (Vert.)																								
A506	4	7'-0"	---																								
A507	4	7'-5"	---																								
A508	4	7'-11"	---																								
A509	4	8'-4"	---																								
A510	3	8'-10"	---																								
A512	26	33'-0"	Retaining Wall (Horiz.)																								
A513	2	20'-0"	---																								
A600	6	6'-7"	Retaining Wall (Vert.)																								
A601	6	7'-0"	---																								
A602	6	7'-5"	---																								
A603	6	7'-11"	---																								
A604	6	8'-4"	---																								
A605	4	8'-10"	---																								
A610	10	3'-0"	Footing (Horiz.)																								
A800	67	13'-8"	Retaining Wall (Vert.)																								
																	</										

PIN 005253.00

PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
5253.00	5	6

TYPE - BENDING DIAGRAMS

All dimensions are out - to - out of bar.

Bending details and hooks shall conform to the recommendations of the current revision of ACI Standard 318.

Reinforcing Bar: ASTM A615, Grade 60

GENERAL NOTES

1. The first digit(s) following the letter of the mark indicates the size of the bar:

Mark "A502" = bar size #5
Mark "P1001" = bar size #10
Mark "S603" = bar size #6

2. Each crank bar, Type B, may be replaced by two (2) straight bars (one top and one bottom) of the same bar size as the crank bar. Payment in either case shall be based on crank bars as scheduled on plans.

RETAINING WALL
AT
IRON BRIDGE
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REINFORCING STEEL SCHEDULE