

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
 BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.
 THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES SHALL BE THE EXISTING GROUNDLINE.
 THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

DESIGN DATA

LIVELOAD: HS20
 EARTHLOAD: DESIGNED FOR 2.0' OF FILL.
 ULTIMATE DESIGN STRESSES:
 CONCRETE MASONRY $f'_c = 3,500$ P.S.I.
 HIGH STRENGTH BAR STEEL REINFORCEMENT $f_y = 60,000$ P.S.I.

TOTAL ESTIMATED QUANTITIES

BID ITEMS	
REMOVING OLD BRIDGE, STA. 509 ± 01	1 L.S.
EXCAVATION FOR STRUCTURES, CULVERTS	1 L.S.
CONCRETE MASONRY, CULVERTS	154 C.Y.
HIGH STRENGTH BAR STEEL REINFORCEMENT, CULVERTS	18,490 LBS.
STRUCTURAL CARBON STEEL	210 LBS.
NON-BID ITEMS	
POLYVINYL CHLORIDE WATERSTOP	26 L.F.
FILLER	3/4" SIZE

HYDRAULIC DATA

100 YEAR FREQUENCY
 $Q_{100} = 650$ C.F.S.
 $VEL. = 5.6$ F.P.S.
 $H.W. = EL. 1169.8$
 DRAINAGE AREA = 16.1 SQ. MI.
 OVERTOPPING RD = NA.

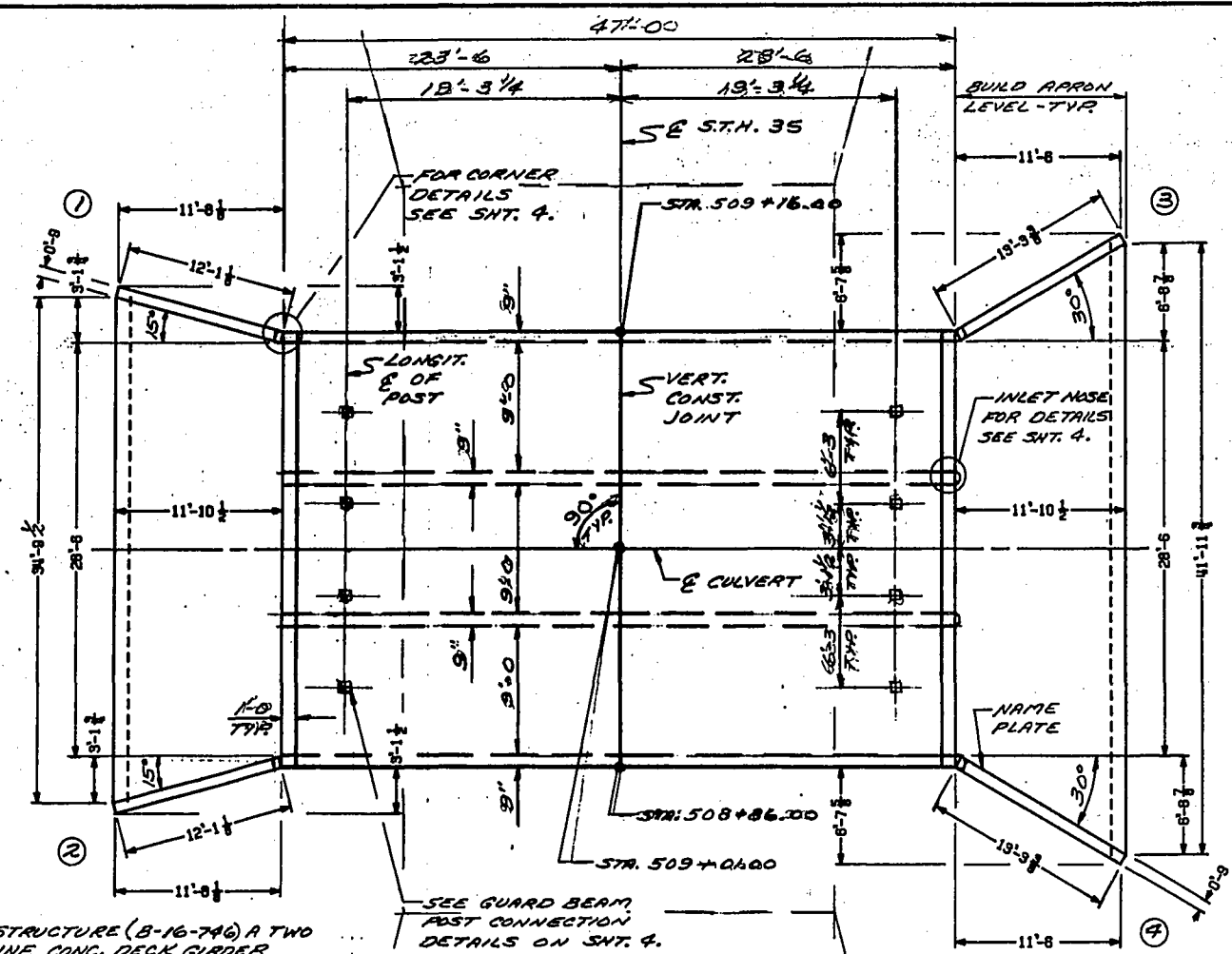
TRAFFIC VOLUME

S.T.H. 35
 A.D.T. = 1400 (2012)
 A.D.S. = 60 MPH.

LIST OF DRAWINGS

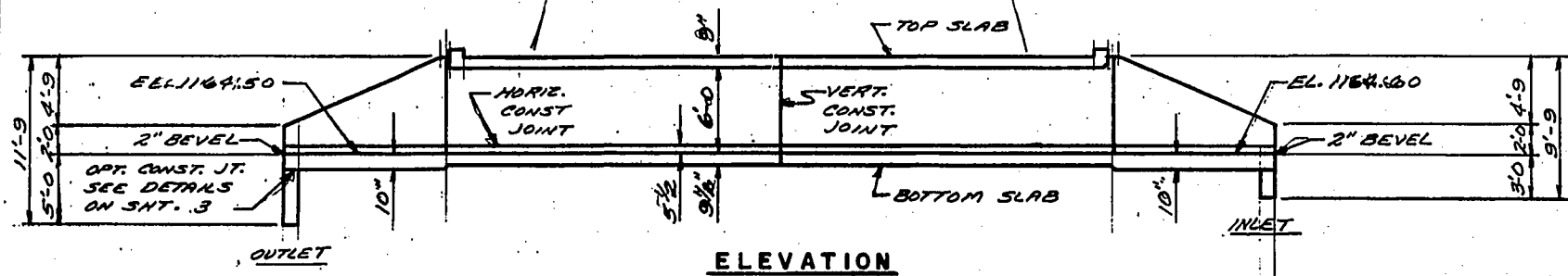
1. LAYOUT
2. DETAILS
3. DETAILS
4. DETAILS
5. SUBSURFACE EXPLORATION

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-16-76			
S.T.H. 35 OVER UPPER TAMARACK RIVER			
COUNTY	DOUGLAS	TOWNSHIP	DAIRYLAND
DESIGN SPEC.	A.A.S.H.T.O. 1989	LOAD	HS20
DES BY	COMP	DES CH	COMP
APPROVED	State Bridge Engineer		DATE
LAYOUT			SHEET 1 OF 5
			X 83463

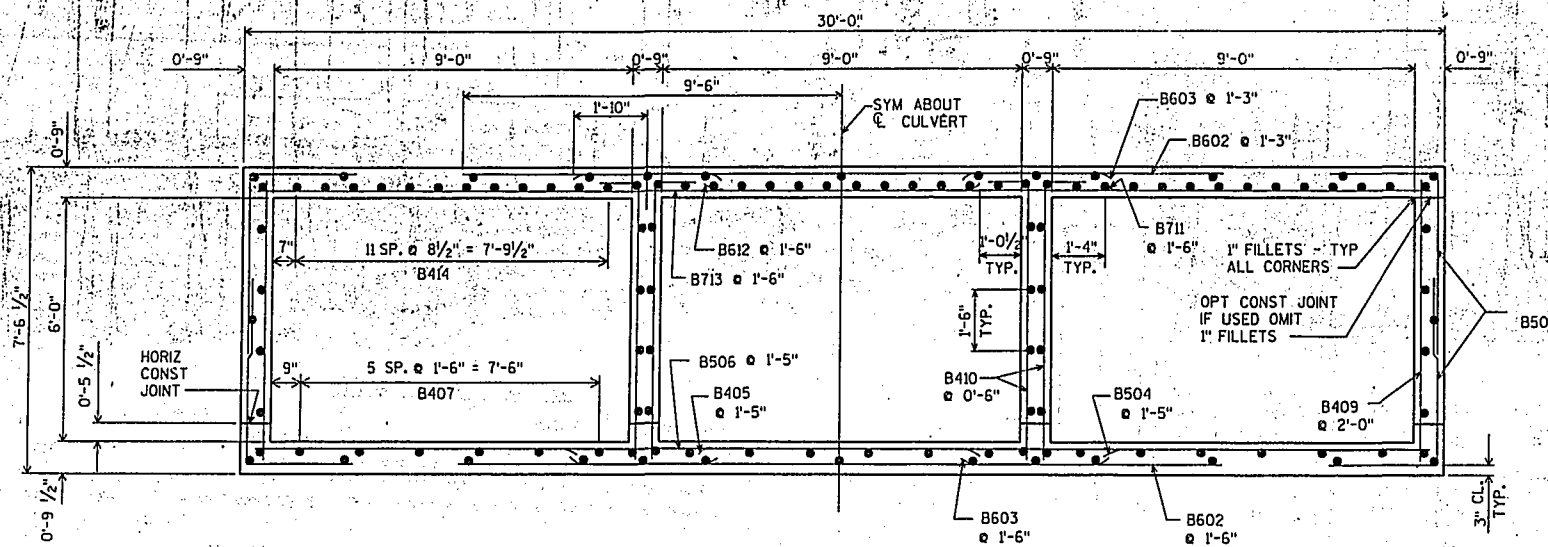


PLAN - B-16-76

EXIST. STRUCTURE (B-16-746) A TWO SPAN REINF. CONC. DECK GIRDER ON CONC. PIER AND CONC. FULL RETAINING ABUTS. TO BE REMOVED.



ELEVATION



TYPICAL SECTION THRU BOX

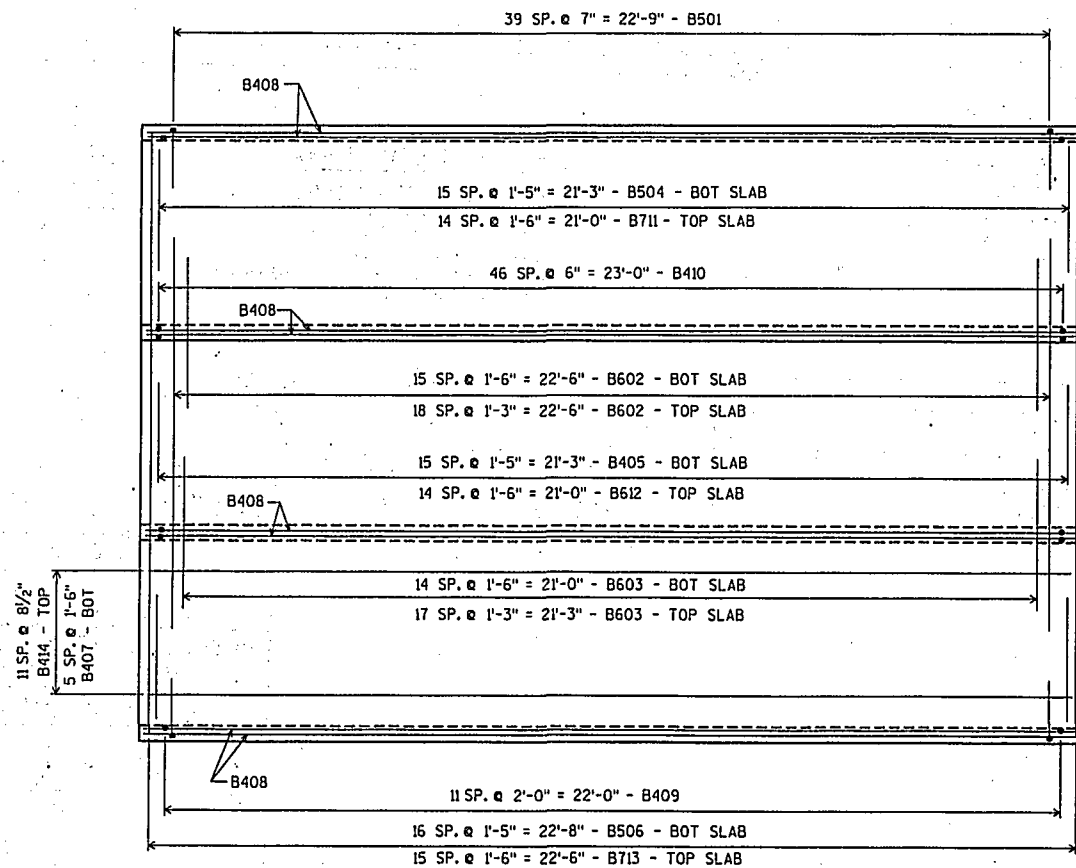
NOTE: ALL LONGIT BAR STEEL REINF.
NOT IDENTIFIED ARE B408

BILL OF BARS

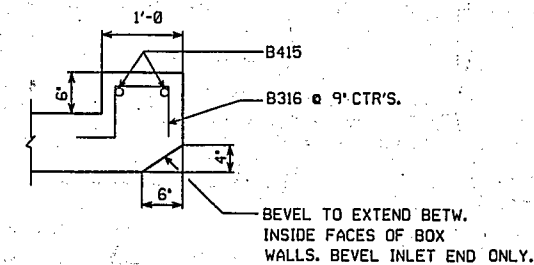
16,340 - LBS.

BAR MARK	NO. REQ'D.	LENGTH	BENT	LOCATION
B501	320	6'-10"	2-8	CORNERS
B602	70	19'-0"		TOP & BOTTOM SLABS
B603	132	3'-8"		TOP & BOTTOM SLABS
B504	64	7'-11"		BOTTOM SLAB
B405	32	6'-11"		BOTTOM SLAB
B506	34	29'-6"		BOTTOM SLAB
B407	36	23'-0"		BOTTOM SLAB
B408	128	23'-0"		LONGIT. BARS
B409	48	7'-1"		OUTSIDE WALLS - VERT
B410	376	8'-1"	1-0	INSIDE WALLS - VERT
B711	60	7'-11"		TOP SLAB
B612	30	6'-11"		TOP SLAB
B713	32	29'-6"		TOP SLAB
B414	72	23'-0"		TOP SLAB
B415	4	29'-6"		HEADERS
B316	80	3'-0"	YES	HEADERS
B517	84	4'-0"		VERT CONST JOINT

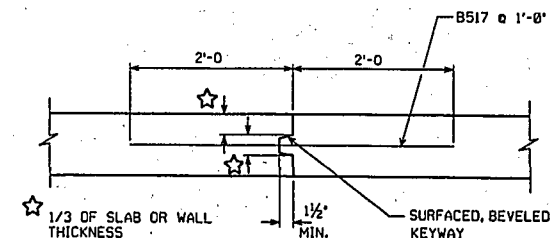
NOTE: THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZ LEG OF A "L" SHAPED BAR



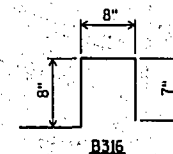
PLAN VIEW



SECTION THRU HEADER

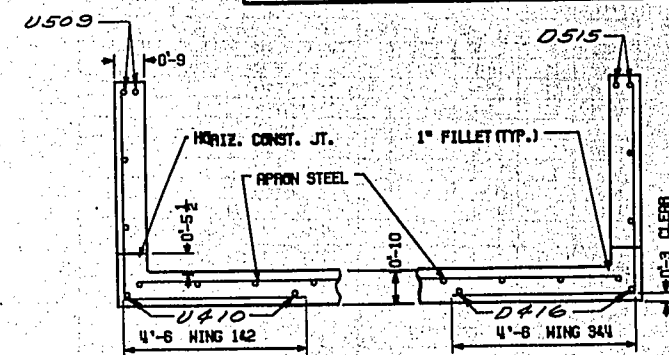
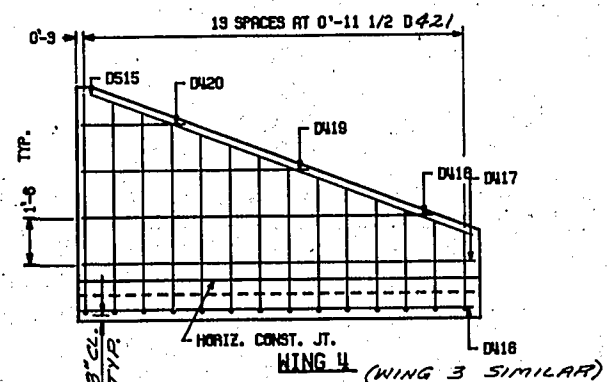


VERTICAL CONSTRUCTION JOINT

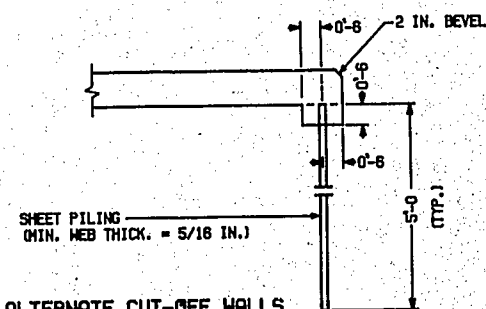
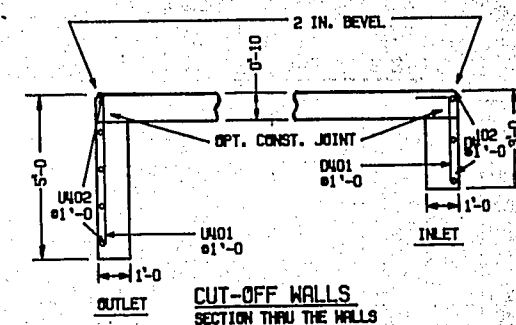


NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS			
STRUCTURE B-16-76			
CONST. SPEC.	1989	DRAWN BY	BJ
		PLANS CK'D.	HEA
DETAILS			SHEET 2 OF 5
X83463			

8.2



SECTION THRU WINGS
AT RIGHT ANGLES TO WING WALLS

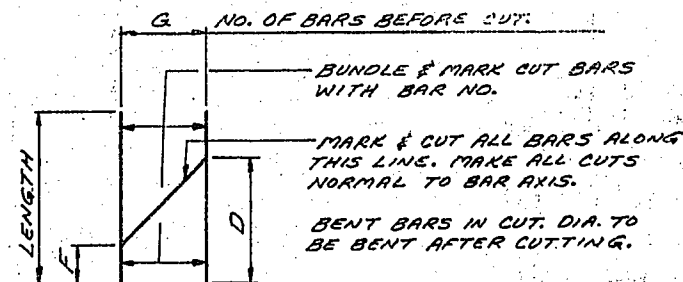


ALTERNATE CUT-OFF WALLS
THE ABOVE ALT. MAY BE USED IN LIEU OF THE
CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT
WILL BE BASED ON THE CONC. CUT-OFF WALLS.

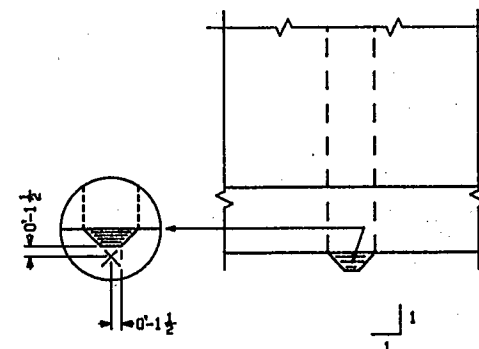
NO.	DATE	REVISION	BY
STATE OF WISCONSIN			
DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-16-76			
CONST SPEC	1989	DRAWN BY	BJ
		PLAN CHK	N.E.A.
DETAILS		SHEET 3 OF 5	
		X 83463	

G NO. OF BARS BEFORE CUT:

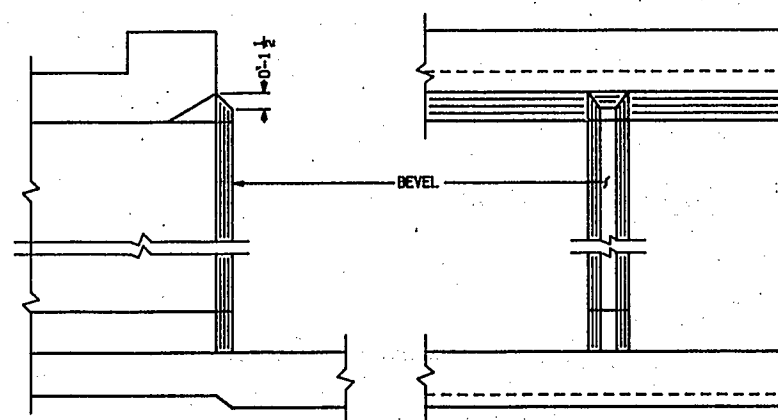
THE FIRST DIGIT OF THE MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZ. LEG OF A "L" SHAPED BAR.



MARK	D	F	G	SETS REQ'D
U403	18-1	15-5	11	1
U415	11-7	6-10	12	1
D403	21-6	15-6	11	1
D421	11-7	6-10	14	1

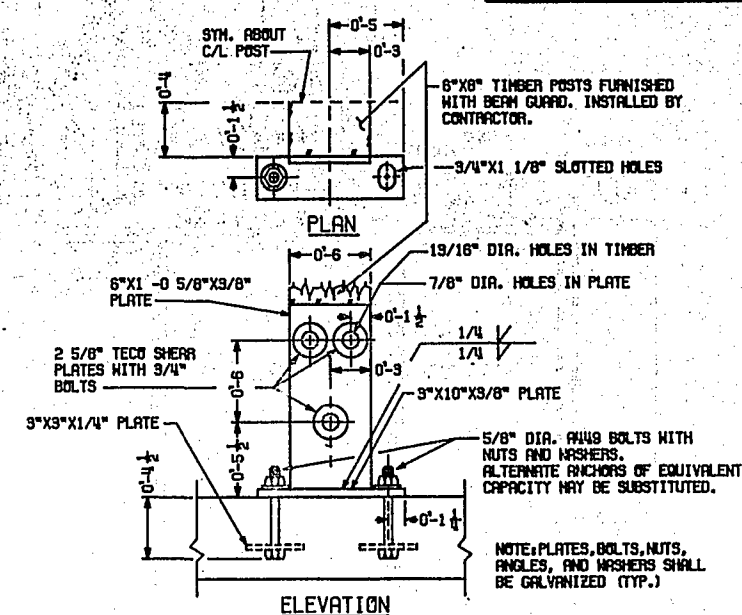


PLAN



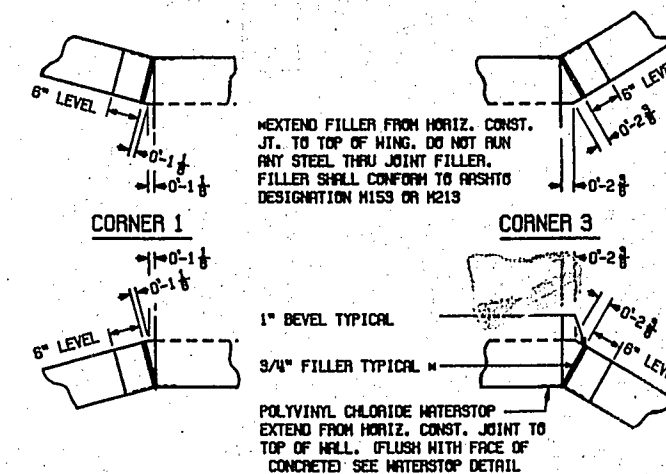
ELEVATION

INLET NOSE DETAILS



ELEVATION

(8) REQ D. TO BE PAID FOR AS "STRUCTURAL CARBON STEEL"



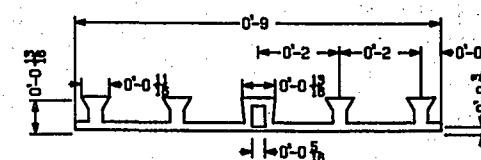
CORNER 1

CORNER 3

CORNER 2

CORNER 4

CORNER DETAILS



POLYVINYL CHLORIDE WATERSTOP

PLOT COMPLETE

ABBREVIATIONS		
F — Fine	M — Medium	C — Coarse
Ws — Weathered	So — Sound	
MATERIAL SYMBOLS		
Topsoil	Silt	Sandstone
Sand	Peat	Limestone
Gravel	Clay	Igneous Rock

LEGEND OF PROBING

95/6=95 Blows for 6" Penetration
 Probing taken with a 350# wt.
 Falling 18" on a 2" O. D. Point.

Probing No.
 Sta.
 Elevation
 7 Average Blows Per Foot
 Refusal 95/6

LEGEND OF BORING

Unconfined Strength → 7.7
 Blows Per Ft. Using 140# Wt. Falling 30"
 Wash Sample
 Shelby Tube — S. T.

Elev.
 Boring No.
 Sta.

Sandy Gravel
 Boulders or Cobbles
 Sand
 Silty Clay
 So
 Limestone

Ground Water Elevation
 No Ground Water Observed Above This Elevation

Unless otherwise specified, the blows per foot at the locations indicated are based on driving a 2" O. D. x 1.4" I. D. split spoon sampler with a 140# hammer having a free fall of 30". The blow count is taken in undisturbed soil immediately below a cased or open hole eliminating side friction on the drive pipe.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

To obtain relative data concerning the character of material in and upon which the foundation might be built, borings and/or soundings were made at points approximately as indicated on this drawing. The data presented herein represents the findings of the subsurface explorations made. However, because the depths investigated are limited and the area of the borings and/or soundings is very small in relation to the entire area, the Division of Highways does not warrant conditions below the depths investigated or that the classification of material encountered in these investigations is necessarily typical of the entire site.

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS			
STRUCTURE B-16-76			
Const. Spec.	1989	Drawn By	Plans Checked L.E.A.
SUBSURFACE EXPLORATION			SHEET 5 OF 5 X 83463

