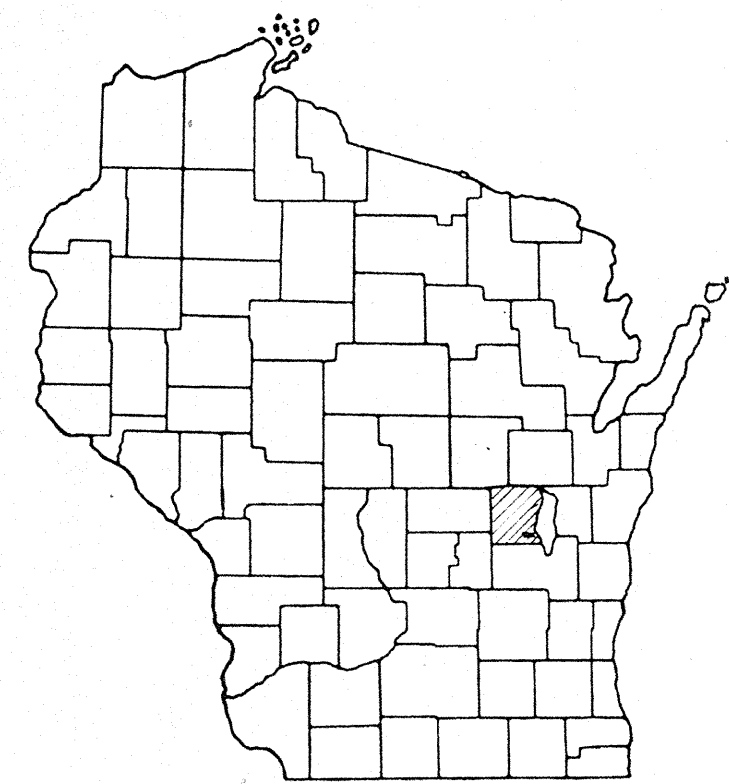


INDEX OF SHEETS

SHEET NO. 1	TITLE
SHEET NO. 2	TYPICAL CROSS SECTIONS
SHEET NO. 2	ESTIMATE OF QUANTITIES
SHEET NO. 2	MISCELLANEOUS QUANTITIES
SHEET NO. 3	RIGHT OF WAY PLAT
SHEET NO.	PLAN AND PROFILE STA. 3+00 TO STA. 31+48
SHEET NO.	STANDARD DETAILS
SHEET NO.	DRAINAGE STRUCTURES
SHEET NO.	CROSS SECTIONS



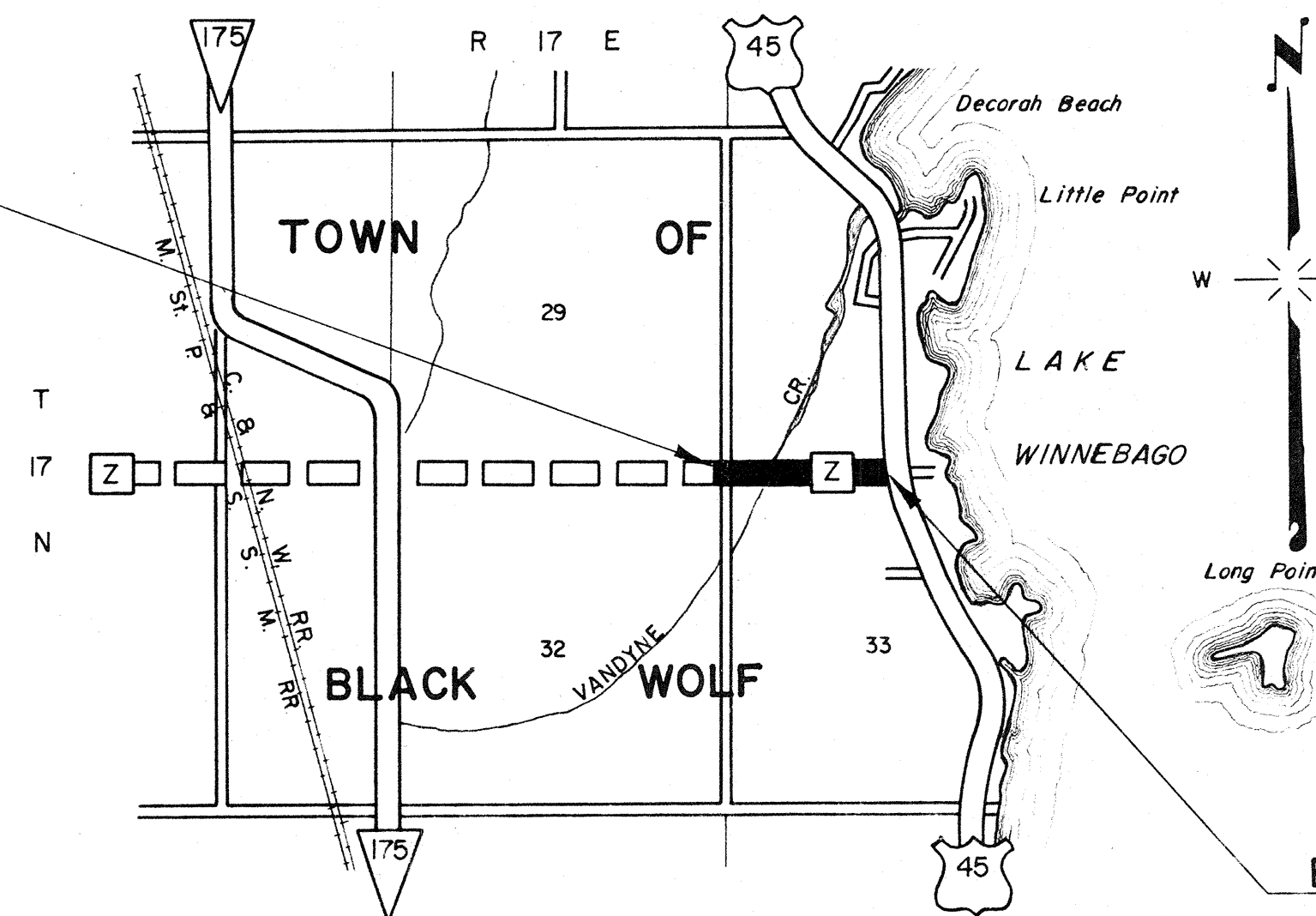
STATE OF WISCONSIN STATE HIGHWAY COMMISSION OF WISCONSIN

PLAN AND PROFILE OF PROPOSED S.T.H. 175 - U.S.H. 45 ROAD C.T.H. "Z" WINNEBAGO COUNTY PROJECT E 0-0 (45)

PLAN 1 IN. = 100 FT.
 PROFILE HOR. 1 IN. = 100 FT. VERT. 1 IN. = 10 FT.
 CROSS SECTIONS HOR. 1 IN. = 5 FT. VERT. 1 IN. = 5 FT.

PRELIMINARY
NOT APPROVED

BEGINNING OF PROJECT
E 0-0 (45) STA. 3+00
300' WEST OF THE N.W. COR. SEC. 33
T 17 N, R 17 E



END OF PROJECT E 0-0 (45)
STA. 31+48
15.5' EAST OF THE N. 1/4 COR. SEC. 33
T 17 N, R 17 E

CONVENTIONAL SIGNS

STATE LINE.....	CULVERTS IN PLACE.....
COUNTY LINE.....	CULVERTS REQUIRED.....
TOWNSHIP OR RANGE LINE.....	DROP INLET.....
SECTION LINE.....	POWER POLE.....
NEW RIGHT OF WAY LINE.....	TELEPHONE OR TELEGRAPH POLE.....
PRESSENT RIGHT OF WAY LINE.....	RIGHT OF WAY MARKERS.....
WIRE FENCE { WOVEN.....	REFERENCE STAKE FOR HUBS ONLY.....
{ BARBED.....	MARSH.....
LOT LINE.....	HEDGE.....
CORPORATE OR CITY LIMITS.....	TREES.....
PROPERTY LINE.....	GROUND ELEVATION.....
TRAVELED WAY OR P.E.....	GRADE ELEVATION.....
RAILROADS.....	
BASE OR SURVEY LINE.....	

LAYOUT

SCALE 1" = 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 0.539 MI.

APPROVED:
WINNEBAGO CO. HWY. COMMITTEE

CHAIRMAN
MEMBER
MEMBER
MEMBER
MEMBER
MEMBER
COUNTY HWY. COMMISSIONER
DATED 7 DAY OF 1961

STATE HIGHWAY COMMISSION OF WISCONSIN MADISON, WIS.	
SURVEYOR D.H.	NOTE BOOK 325-326
DISTRICT COMPUTER W.F.S.	M.O. CHECKER
DISTRICT CHECKER	CORRECT
CORRECT: DATE 7-10-61	
RECOMMENDED FOR APPROVAL: DATE ENGINEER OF DESIGN	
APPROVED: DATE STATE HIGHWAY ENGINEER	
DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS	
APPROVED: DATE	
DIVISION ENGINEER	

ESTIMATE OF QUANTITIES

CONTRACT NO. 1 & 2

PROJECT	SHEET NUMBER	TOTAL SHEETS
E 0-0 (45)	2	

THIS PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF WISCONSIN - EDITION OF 1957 AND SPECIAL PROVISION AS ATTACHED TO THE PROPOSAL.

CONTRACT NO.	STATION TO STATION	NET LENGTH OF CENTER LINE	CLEARING	GRUBBING	EXCAVATION			SAND GRAVEL FILL	FINISHING ROADWAY	OBLITERATING OLD ROAD	GRAVEL OR CRUSHED STONE		CULVERT PIPE			CALCIUM CHLORIDE SURFACE TREATMENT	FERTILIZER	SEEDING	SOD	MARKER POSTS	STEEL PLATE BEAM GUARD		BITUM. MAT'L. FOR PRIME COAT	BITUM. ROAD MIX SURFACE	AGG. FOR BITUM. ROAD MIX SURFACE	BITUM. MAT'L. FOR SURFACE COURSE	REMOVING OLD BRIDGE STA. 10+67	EXC. FOR STRUCTURES BRIDGE	CONC. MASONRY BRIDGE	BAR STEEL REINFORCEMENT	STRUCTURAL CARBON STEEL	TREATED LUMBER & TIMBER	C.I.P. CONC. TEST PILING 1 @ 30'	C.I.P. CONC. PILING DELIVERED	C.I.P. CONC. PILING DRIVEN	2 PLY MEMBRANE WATER-PROOFING	RIPRAP	PRE-STRESSED GIRDERS (46'-4" LONG)	GRANULAR BACK-FILL		
					UNCL.						18" C.P.	24" C.M.C.P.	31" X 50" C.M.P.A.																												
ITEM NO.	2101-2	2101-5	2106-5	210 -	210 -	2110-1	2114-1	2116-1	2203-1	23	2411-1	2411-2	2411-3	2525 - 11	2531-1	2532-1	2533-1	2523-5	2523-3		2311-1	2313-1	2313-2	2313-3	2104-1	2107-1	2401-1	2406-1	2407-1	2408-1	2505-1	2505-2	2505-3	S.P.	2512-1	S.P.	2110-1				
UNIT	LIN. FT.	I.D.	I.D.	C.Y.	C.Y.	C.Y.	C.Y.	STA.	STA.	C.Y.	C.Y.	LIN. FT.	LIN. FT.	LIN. FT.	TON	CWT.	SQ. YD.	SQ. YD.	EACH	L.F.	GAL.	S.Y.	C.Y.	GAL.	L.S.	C.Y.	C.Y.	L.B.	L.B.	M.B.M.	L.S.	LIN. FT.	LIN. FT.	SQ. FT.	C.Y.	E.A.	C.Y.				
1	3+00 - 31+48	2,848.00	160	160	6,331					1		3,550		160	36	44	4	11	12,200	50	4	58		1,250	7,500	580	10,440														
2																										1	85	39.5	2280	930	2.87	1	483	394	1,400	65	11	95			
	TOTALS	2,848.00	160	160	6,331					1		3,550		160	36	44	4	11	12,200	50	4	58		1,250	7,500	580	10,440	1	85	39.5	2280	930	2.87	1	483	394	1,400	65	11	95	

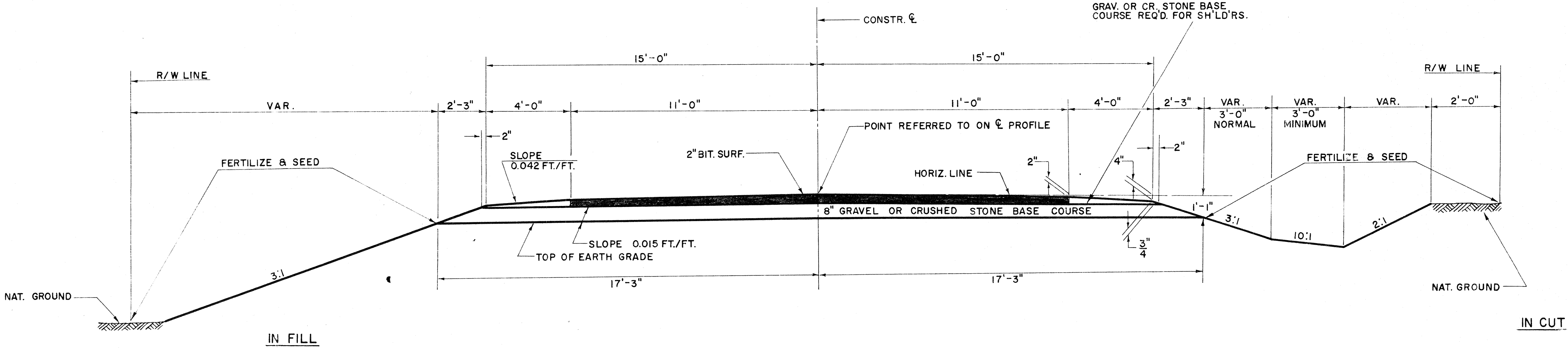
QUANTITIES FOR B - 70-40

GENERAL NOTES

WHEN THE QUANTITY OF THE ITEMS OF SUBBASE, BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER. CONSTRUCTION DETAILS NOT SHOWN SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS. FOR SIDE ROAD INTERSECTION DETAILS USE DESIGN "E" OF PLATE NO. 9-1.1.3.

STANDARD DETAILS DRAWINGS

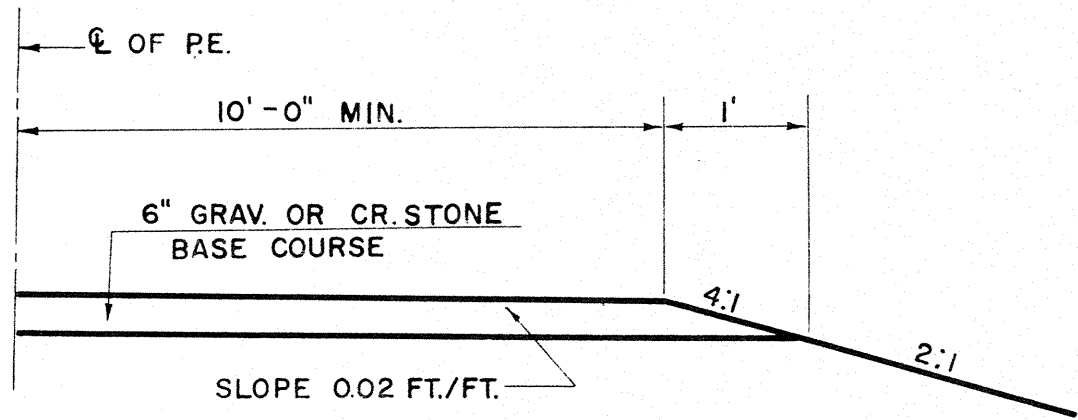
DETAILS OF P.E. AND SD. RD. APPROACHES 1-3.1.1
CORR. METAL PIPE ARCH 6-5.3.1
MARKER POSTS 7-1.3.3
CONSTRUCTION BARRICADE 7-4.1.2
STEEL PLATE BEAM GUARD 7-2.4.2
DESIGN & LAYOUT SD. RD. AT GRADE INTERSECTION 9-1.1.3



NORMAL TYPICAL FINISHED SECTION

GRAV. OR CR. STONE BASE COURSE	
LOCATION	C.Y.
CENTERLINE	3,300
P.E.'S.	75
SHOULDERS	175

CULVERT PIPES				
STATION	LOCATION	DIA.	LIN. FT.	TYPE
16+58	C	31" X 50'	44	C.M.P.A.
31+05 & 8+08	EXTEND	24"	36	C.M.C.P.
PE'S LT. & RT. 5 @ 32		18"	160	C.P.



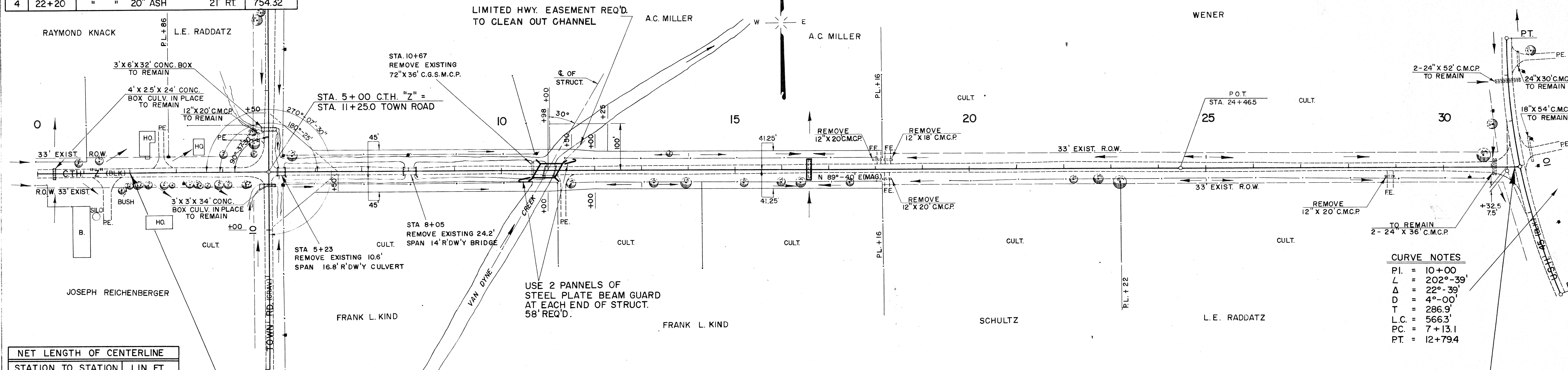
1/2 SECTION FOR P.E.'S

TYPICAL CROSS SECTION
FOR
30 FT. ROADBED - 22 FT. BIT. PAV'T.
AND
MISCELLANEOUS CONSTRUCTION DETAILS

SCALE VARIABLE

BENCH MARKS				
NO.	STATION	DESCRIPTION		ELEV.
1	2+45	PT. MK. SE COR. CONC. STEP	40' LT.	757.68
2	11+24	SPIKE IN 40" ELM	51' RT.	753.72
3	18+10	" " 36" "	42' LT.	751.25
4	22+20	" " 20" ASH	21' RT.	754.32

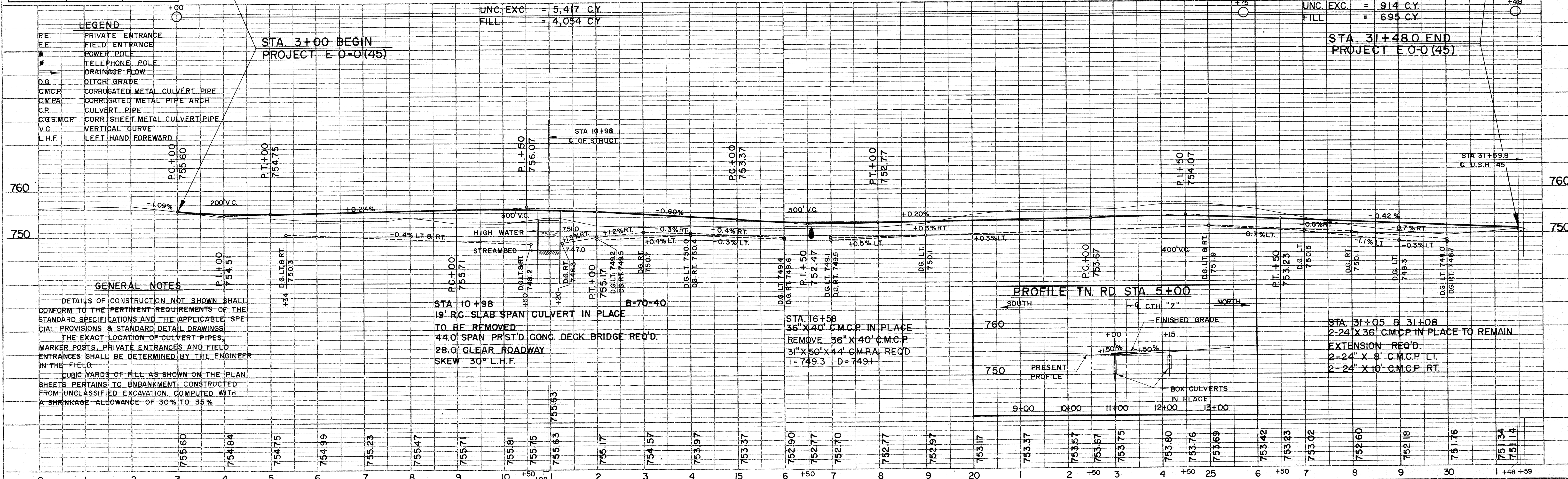
B.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	E 0-0(45)		



NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
3+00.00	31+48.00	2,848.00

CURVE NOTES

P.I. = 10+00
 L = 202'-39'
 Δ = 22°-39'
 D = 4°-00'
 T = 286.9'
 L.C. = 566.3'
 P.C. = 7+13.1
 P.T. = 12+79.4



LEGEND	
PE	PRIVATE ENTRANCE
FE	FIELD ENTRANCE
PP	POWER POLE
TP	TELEPHONE POLE
DF	DRAINAGE FLOW
D.G.	DITCH GRADE
C.M.C.P.	CORRUGATED METAL CULVERT PIPE
C.M.P.A.	CORRUGATED METAL PIPE ARCH
C.P.	CULVERT PIPE
C.G.S.M.C.P.	CORR. SHEET METAL CULVERT PIPE
V.C.	VERTICAL CURVE
L.H.F.	LEFT HAND FORWARD

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS & STANDARD DETAIL DRAWINGS. THE EXACT LOCATION OF CULVERT PIPES, MARKER POSTS, PRIVATE ENTRANCES AND FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. CUBIC YARDS OF FILL AS SHOWN ON THE PLAN SHEETS PERTAINS TO EMBANKMENT CONSTRUCTED FROM UNCLASSIFIED EXCAVATION COMPUTED WITH A SHRINKAGE ALLOWANCE OF 30% TO 35%.

STA 10+98
 19' R.C. SLAB SPAN CULVERT IN PLACE TO BE REMOVED
 44.0' SPAN PRIST'D CONC. DECK BRIDGE REQ'D.
 28.0' CLEAR ROADWAY
 SKEW 30° L.H.F.

STA 16+58
 36" X 40' C.M.C.P. IN PLACE
 REMOVE 36" X 40' C.M.C.P.
 31" X 50" X 44' C.M.P.A. REQ'D
 I = 749.3 D = 749.1

STA 31+05 & 31+08
 2-24" X 36" C.M.C.P. IN PLACE TO REMAIN
 EXTENSION REQ'D.
 2-24" X 8' C.M.C.P. LT.
 2-24" X 10' C.M.C.P. RT.

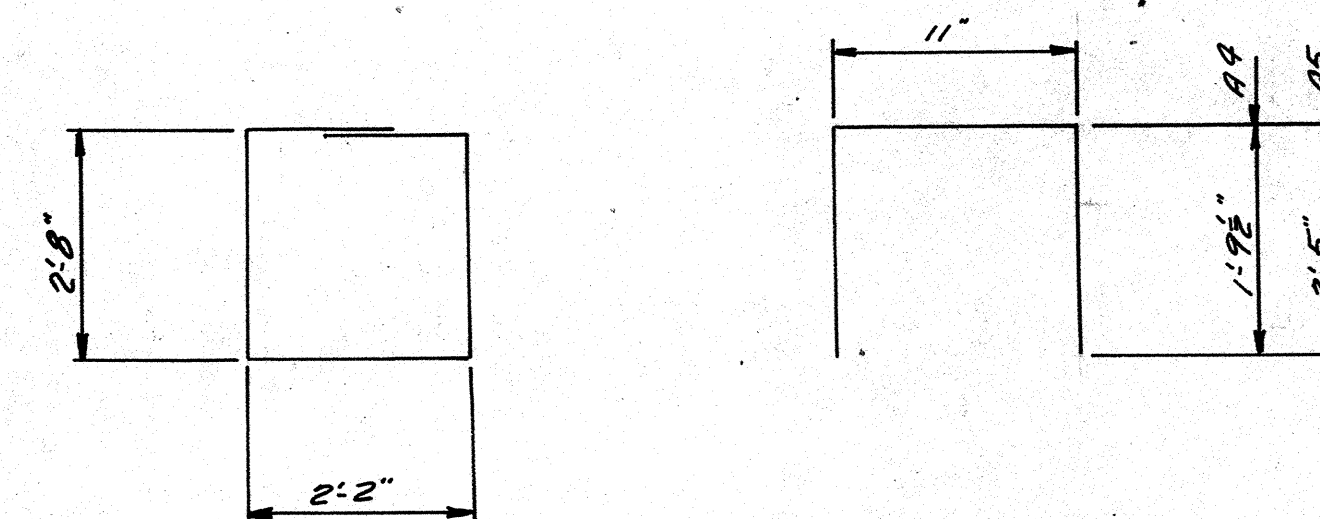
COUNTY & HIGHWAY	ROUTE & SECTION	CLASS & AGREEMENT	STATE	FEDERAL	B. P. R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
70.6	0.0	3.45			4			

ABUTMENT BILL OF BARS

1,270#

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT

POUR	MARK	NO.	SIZE	LENGTH	SPACING	LOCATION	DET.
	A1	40	4	21-6	SHOWN	ABUTMENT CAP	
	A2	42	4	10-9	"	"	A
	A3	8	4	19-6	"	"	
	A4	76	4	4-6	1-0	"	B
	A5	10	4	7-9	SHOWN	"	B
	A6	4	4	2-0	"	"	
	A7	4	4	1-0	"	"	



DETAIL "A"

DETAIL "B"

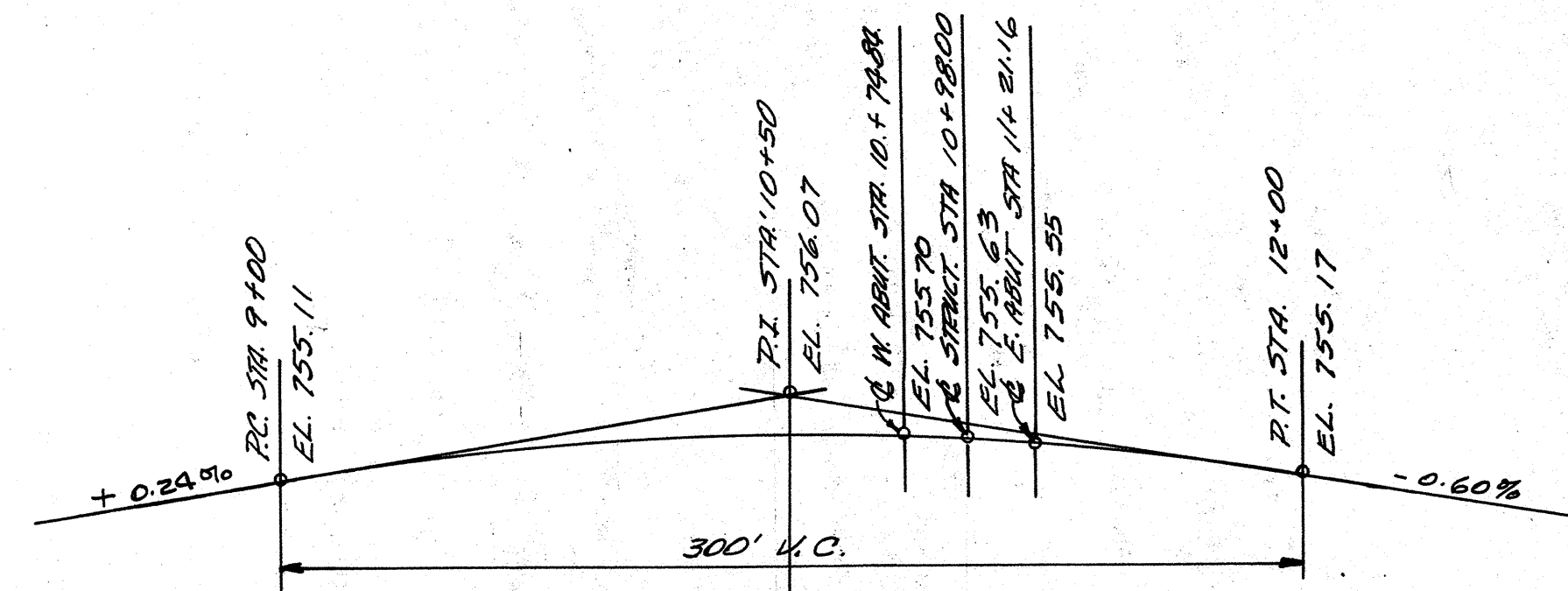
TREATED LUMBER & TIMBER

2.87 MBM

NOMINAL SIZE	NO. OF PIECES	LENGTH	SURFACE	GRADE	LOCATION
3x6	4	8-3	NONE	1200# 5J&P	WING 1 - CLEAT & NAILING STRIP
	2	14-0	"	"	" - CLEAT
	4	9-3	"	"	" 1&2 NAILING STRIP
	2	10-0	"	"	" 1 NAILING STRIP
	4	5-9	"	"	" 2 CLEAT & NAILING STRIP
	2	9-6	"	"	" 2 CLEAT
3x10	14	4-3	"	"	BODY - NAILING STRIP
	10	42-6	"	1600# 5J&P	BODY - BACKING
	20	15-0	"	"	WING 1 - "
	2	10-0	"	"	" 1 - "
	2	5-0	"	"	" 1 - "
	16	10-0	"	"	WING 2 - "
	2	8-0	"	"	" 2 - "
	2	6-0	"	"	" 2 - "
6x8	2	4-0	"	"	" 2 - "
	2	2-0	"	"	" 2 - "
6x8	4	5-6	"	1200# 5J&P	BODY - CLEAT
	4	4-3	"	"	"

BENCH MARK

NO	STATION	DESCRIPTION	ELEV.
2	11+24	SPIKE IN 40" ELM	51' RT. 753.72



PROFILE GRADE LINE ON C.T.H. "Z"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
ALL CONCRETE MASONRY SHALL BE GRADE "A".
BEVEL ALL EXPOSED EDGES OF CONCRETE 1" UNLESS OTHERWISE SPECIFIED.
BAR STEEL REINFORCEMENT SHALL BE IMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
THE USE OF STRUCTURAL GRADE BAR STEEL REINFORCEMENT IS PROHIBITED.
ALL PILING SHALL BE 12" C.I.P. CONCRETE PILING ESTIMATED 21'-0" LONG. PILING IN BODY OF ABUTMENTS SHALL BE DRIVEN TO A MINIMUM BEARING VALUE OF 20 TONS PER PILE. PILING IN WINGS SHALL BE DRIVEN TO A MINIMUM BEARING VALUE OF 20 TONS PER PILE.
RIPRAP SHALL BE PLACED AS SHOWN IN SECT. A1 ALONG F.F. OF BODY AND WINGS OF THE ABUTMENTS AND AS DIRECTED BY THE ENGINEER.

TOTAL ESTIMATED QUANTITIES

BID ITEMS	UNIT	SUPER	ABUTS	TOTAL
REMOVING OLD BRIDGE	L.S.	—	—	1
EXCAVATION FOR STRUCTURES	C.Y.	—	85	85
CONCRETE MASONRY	C.Y.	11.3	28.2	39.5
BAR STEEL REINFORCEMENT	LB.	1010	1270	2280
STRUCTURAL CARBON STEEL	LB.	—	930	930
TREATED LUMBER & TIMBER	MBM	—	2.87	2.87
C-I-P CONCRETE TEST PILING (10 30'-0")	L.S.	—	1	1
C-I-P CONCRETE PILING (DELIVERED)	L.F.	—	483	483
C-I-P CONCRETE PILING (DRIVEN)	L.F.	—	394	394
RIPRAP	C.Y.	—	65	65
* PRE-STRESSED GIRDERS (4'-4" LONG)	EA.	11	—	11
GRANULAR BACKFILL	C.Y.	—	95	95
2 PLY MEMBRANE WATERPROOFING	S.F.	1400	—	1400
NON-BID ITEMS				
FILLER	SIZE	1/2"	—	1/2"

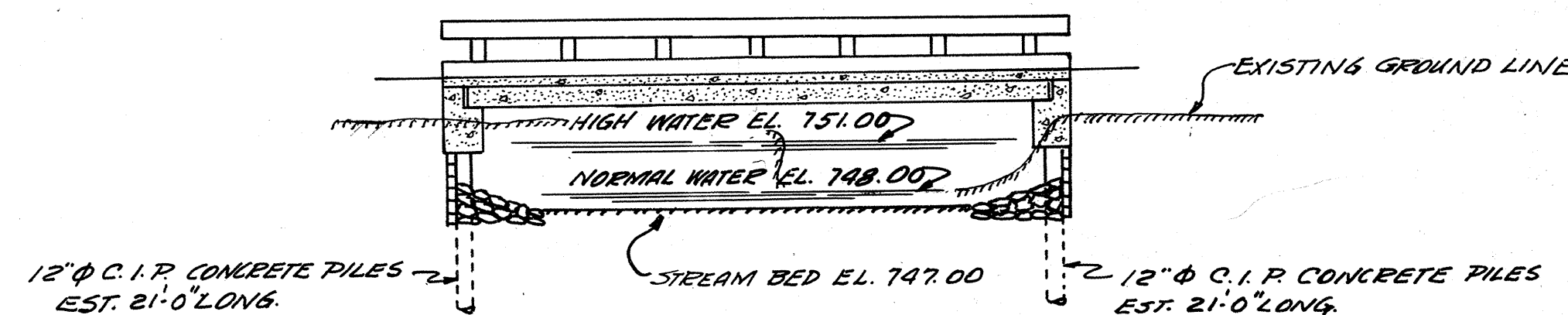
* R.C. SLAB TYPE WITH VOIDS.

LIST OF DRAWINGS

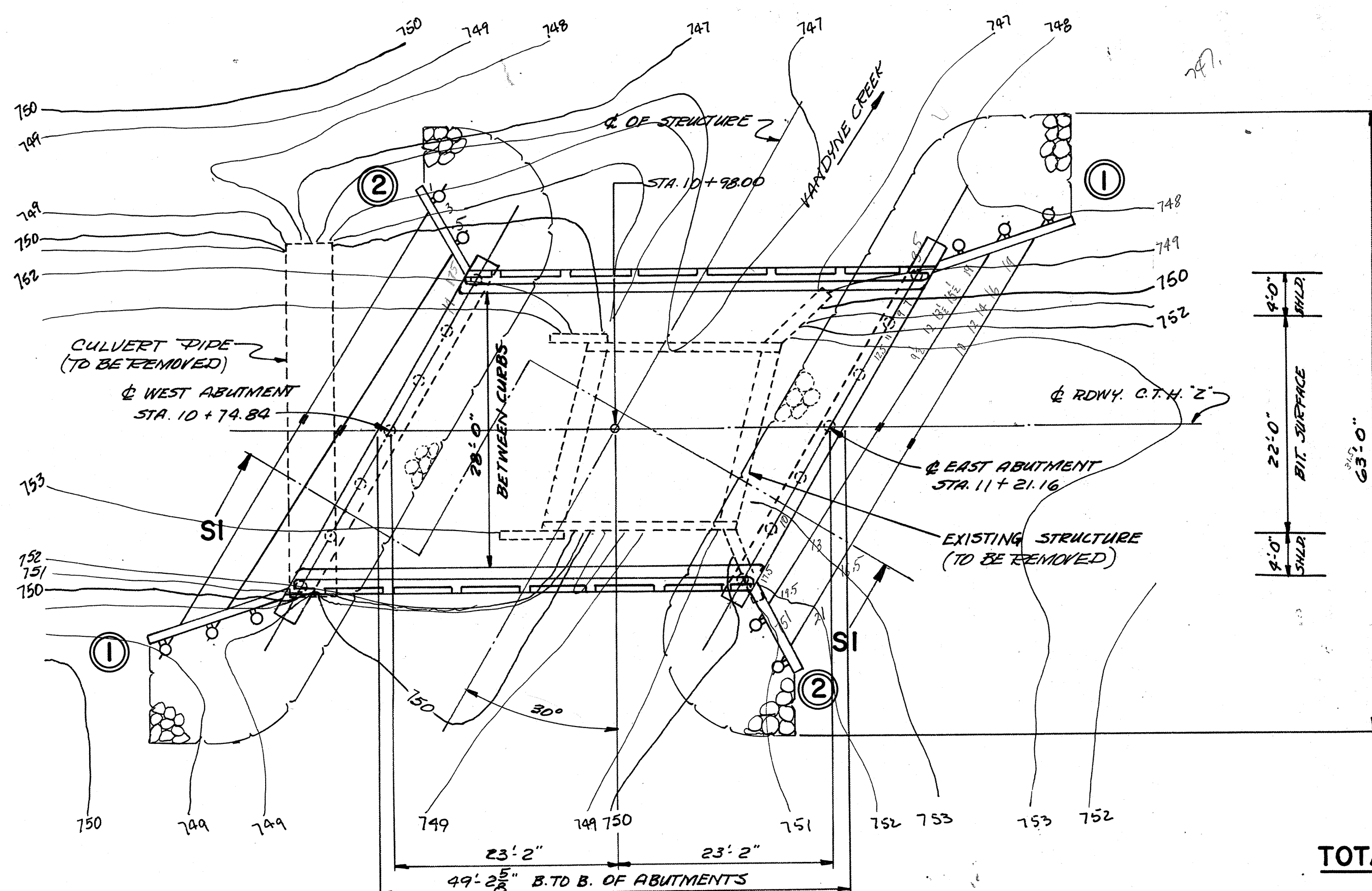
1. GENERAL PLAN ————— X 23459
2. SUPERSTRUCTURE ————— X 23460
3. ABUTMENTS ————— X 23461

STATE HIGHWAY COMMISSION OF WISCONSIN			
GENERAL PLAN			
CO. WINNEBAGO	CON. VIN. BLACK WOLF	STA. 10+78.00	
SECTION 28 & 33	TOWN 17N	RANGE 17E	
DESIGN SPEC. AASHO 1957	LOADING H-15	CONSTR. SPEC. 1957	
DATE 5-9-61	DESIGN O.O.	DRAWN J.L.J.	CHK. J.F.F.
SUBMITTED		N.B. Schultz	
APPROVED		E.C. Prater	
STRUCTURE B-70-40		SHEET 1 OF 3	

X 23459



SECTION S1



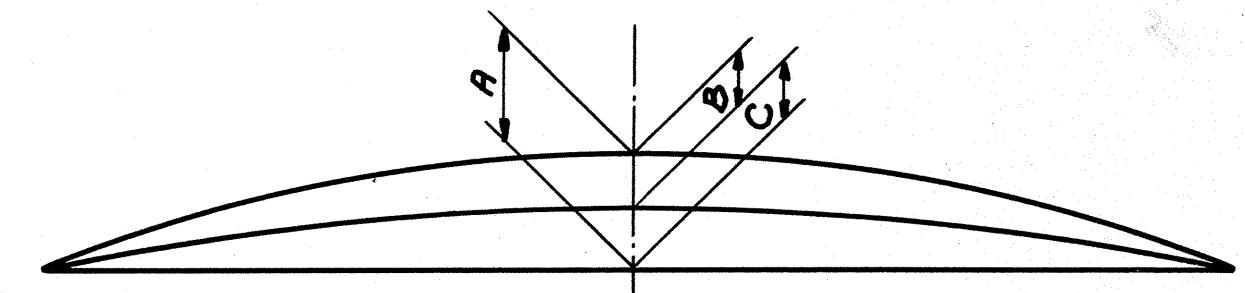
GENERAL PLAN

SUPERSTRUCTURE
44'-0" CLEAR SPAN REST'D. CONC. DECK.
SUBSTRUCTURE:
CONC. PILE ABUTS. WITH TIMBER BACKING.
EXISTING CONCRETE SLAB STRUCTURE AND 72" X 36" CULVERT PIPE TO BE REMOVED.

B. P. R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4			

BILL OF BARS 1010# DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT

MARK	NO.	SIZE	LENGTH	SPACING	LOCATION	DET.
S1	12	5	25'-0"	SHOWN	CURB - LONG.	
S2	42	3	3'-3"	"	RAILING POST - HOOPS	A
S3	28	5	3'-0"	"	" - VERT.	B
S4	28	5	3'-6"	"	" - "	B
S5	16	5	24'-9"	"	RAILING - LONG.	
S6	96	2	2'-6"	1'-0"	" - HOOPS	A

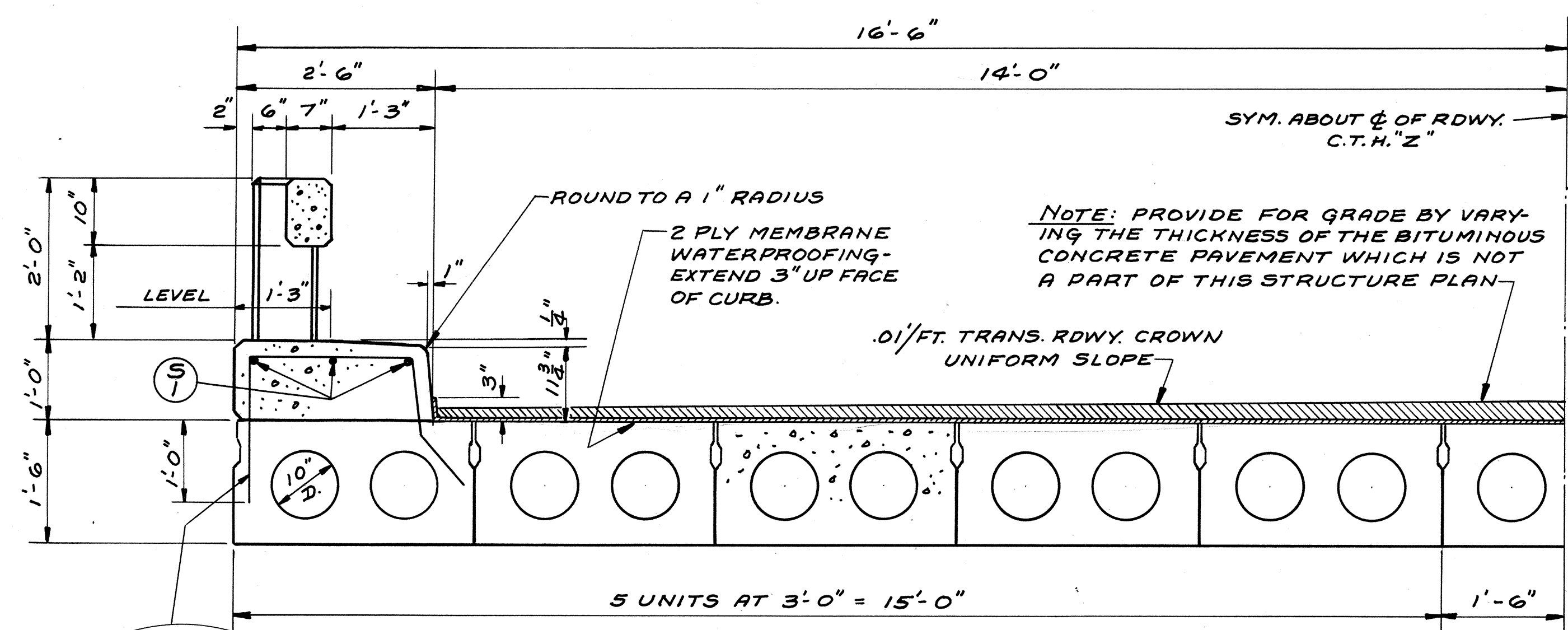


PRE-STRESS CAMBER & DEAD LOAD DEFLECTION DATA SHOWN ARE THEORETICAL & MAY VARY WITH CONCRETE STRENGTH, VARIABLE PRE-STRESSING CONDITIONS AND PRE-STRESS LOSSES.

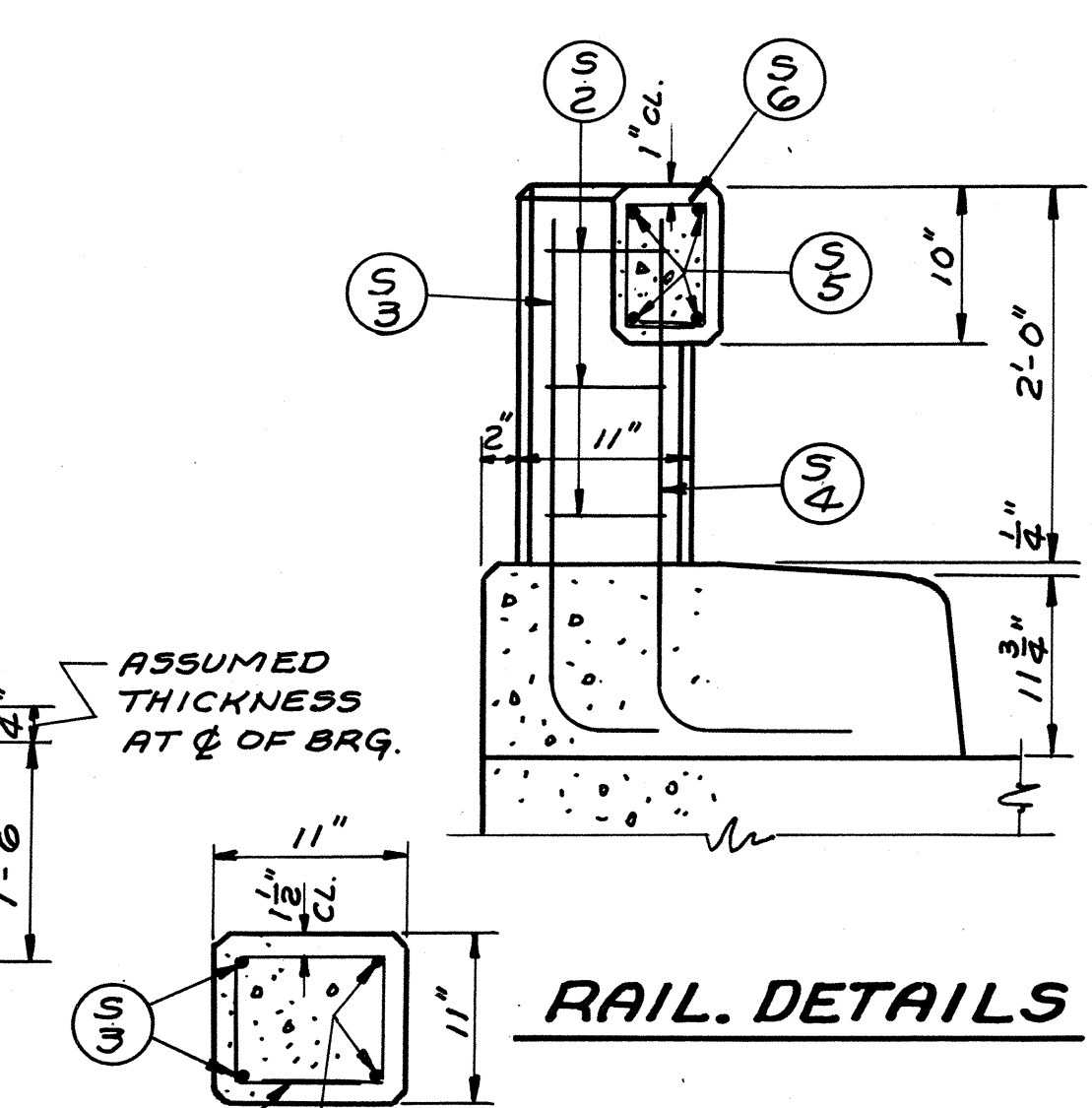
DEFLECTION DIAGRAM

CAMBER	AT ϕ SPAN
A = PRE-STRESS CAMBER	1 1/2"
B = DEFLECTION	15/16"
C = RESIDUAL CAMBER	9/16"

NOTE: TOTAL INITIAL PRE-STRESS TO BE 370 KIPS FOR EACH GIRDER. ULTIMATE CYLINDER STRENGTH OF CONCRETE AT TIME OF TRANSFER OF PRE-STRESS = 4000 P.S.I.

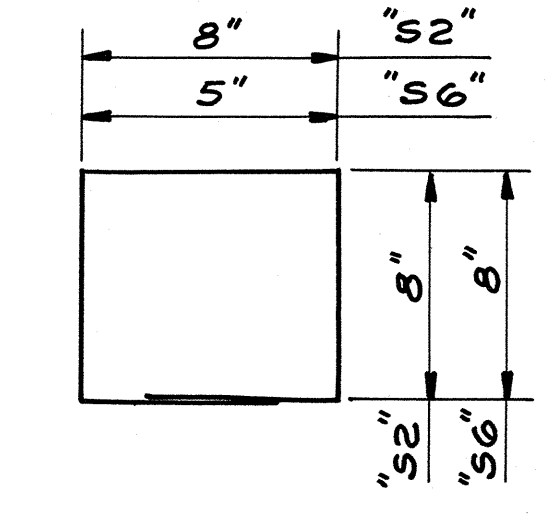


HALF CROSS SECTION THRU ROADWAY
AT RIGHT ANGLES TO ϕ OF RDWY.

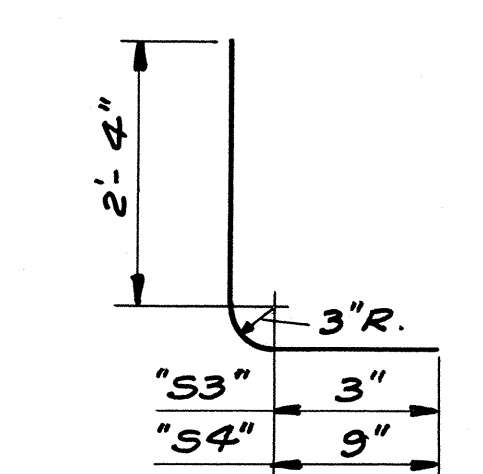


RAIL DETAILS

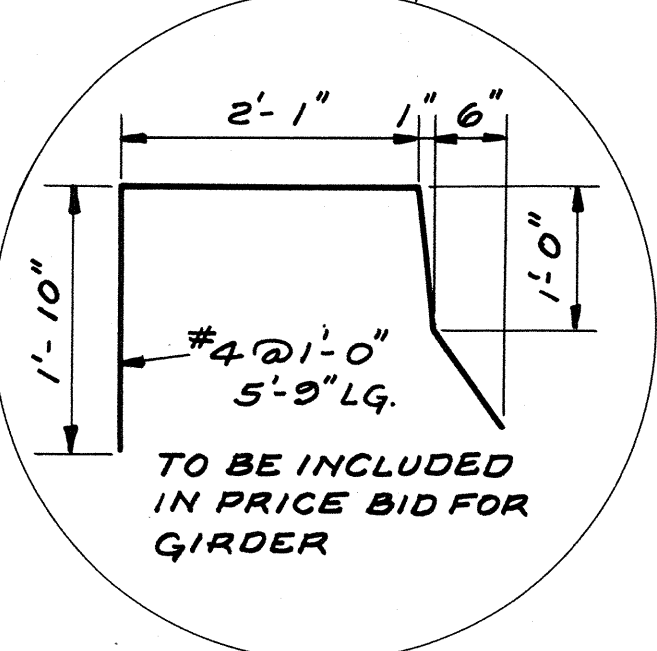
SEC. THRU POST



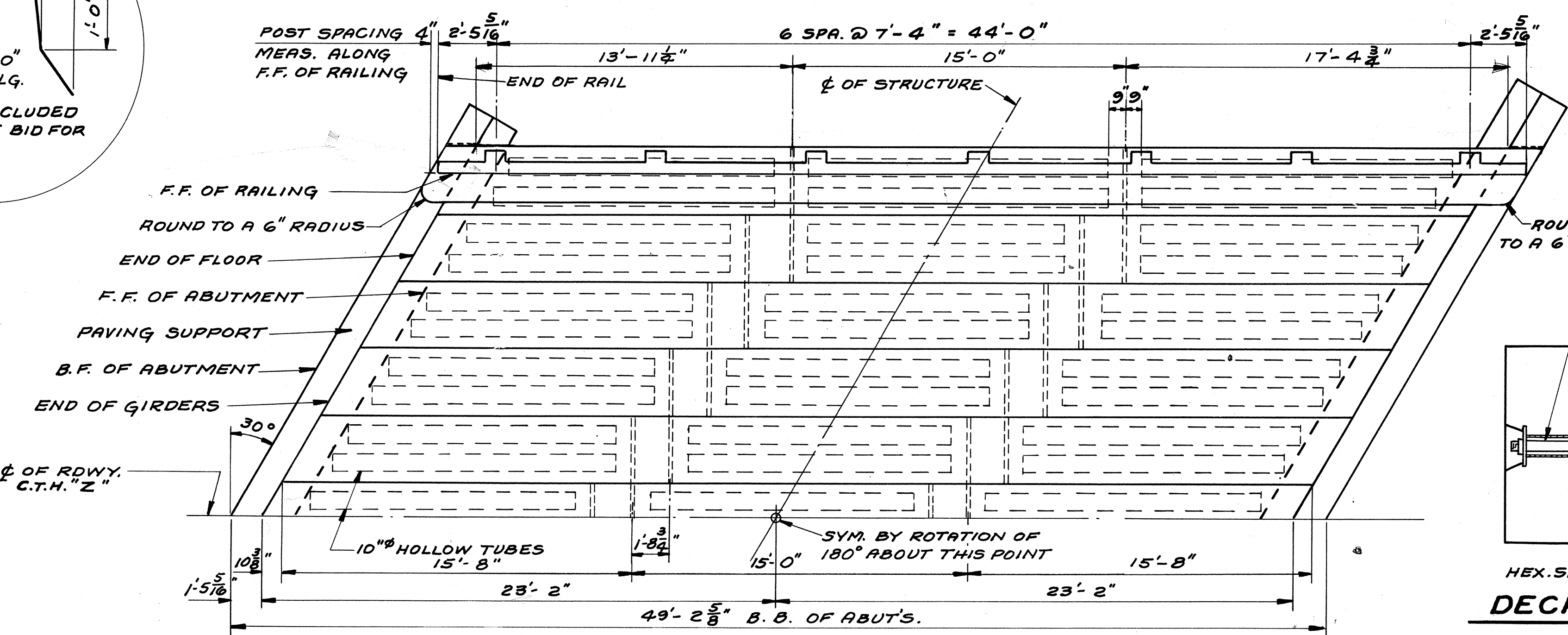
DETAIL "A"



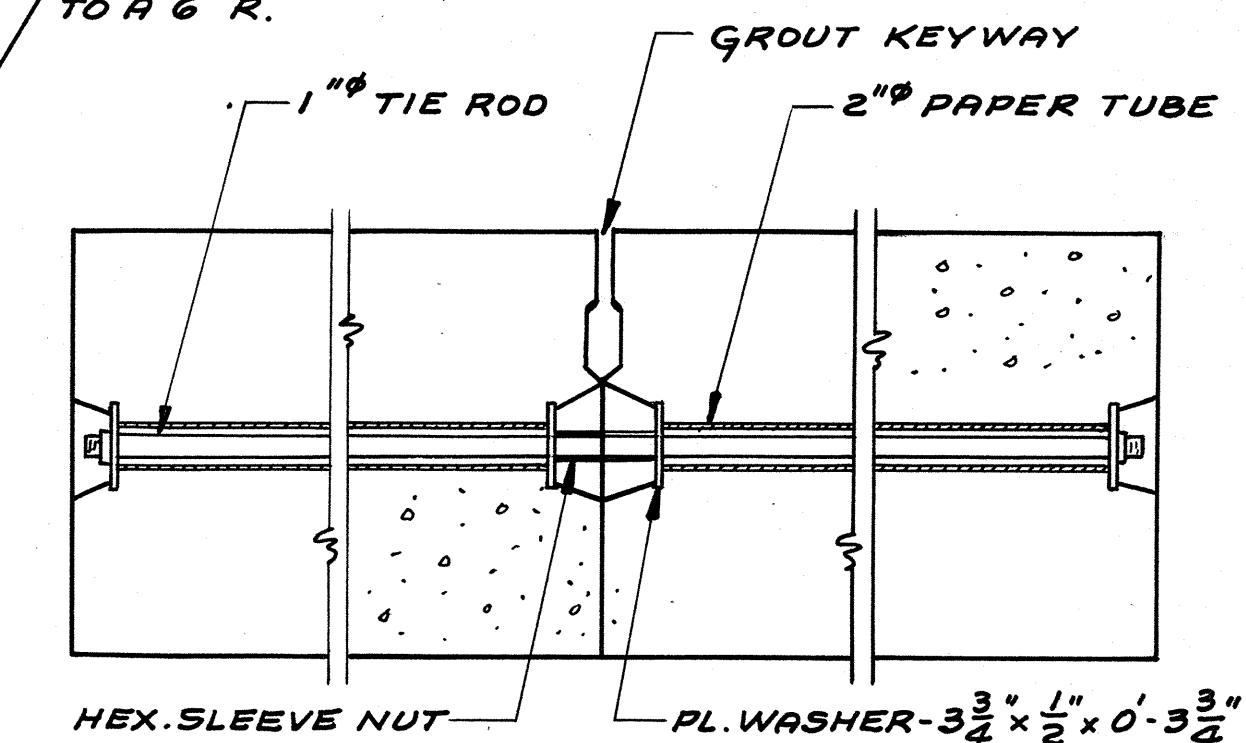
DETAIL "B"



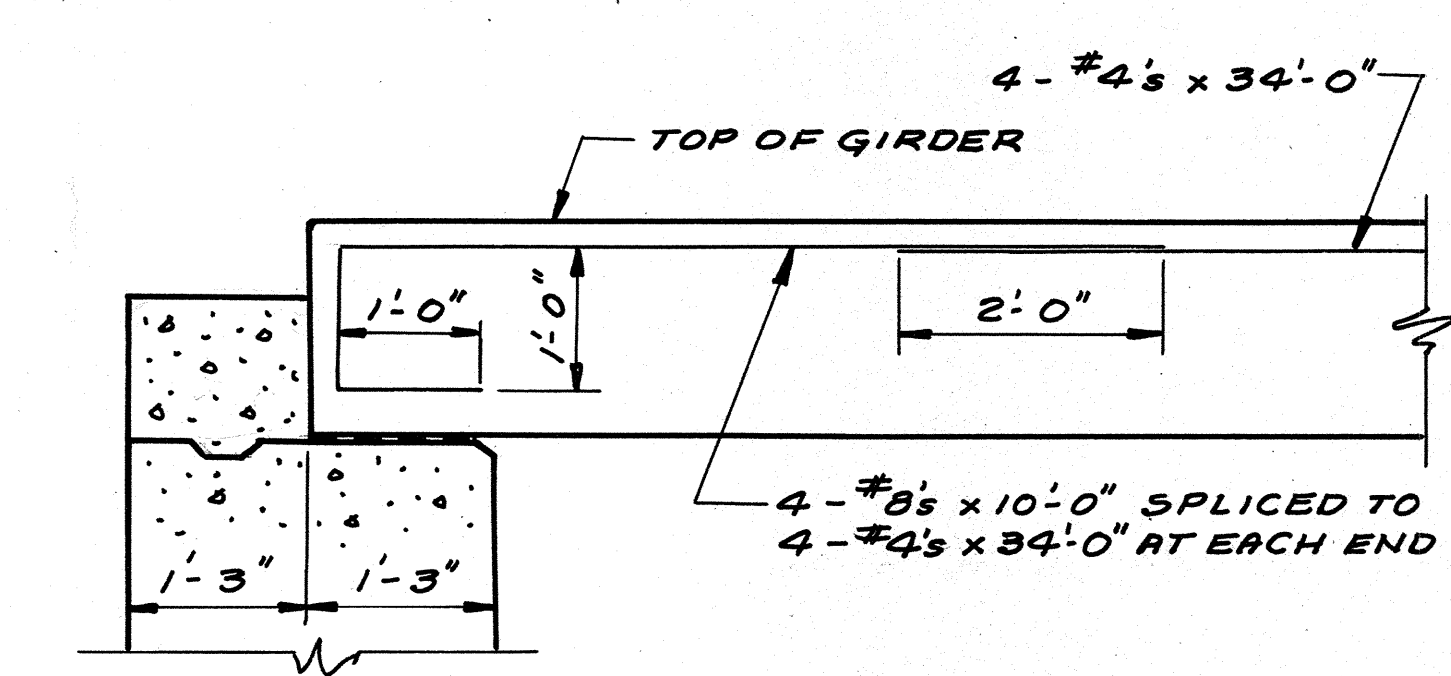
TO BE INCLUDED IN PRICE BID FOR GIRDER



HALF PLAN

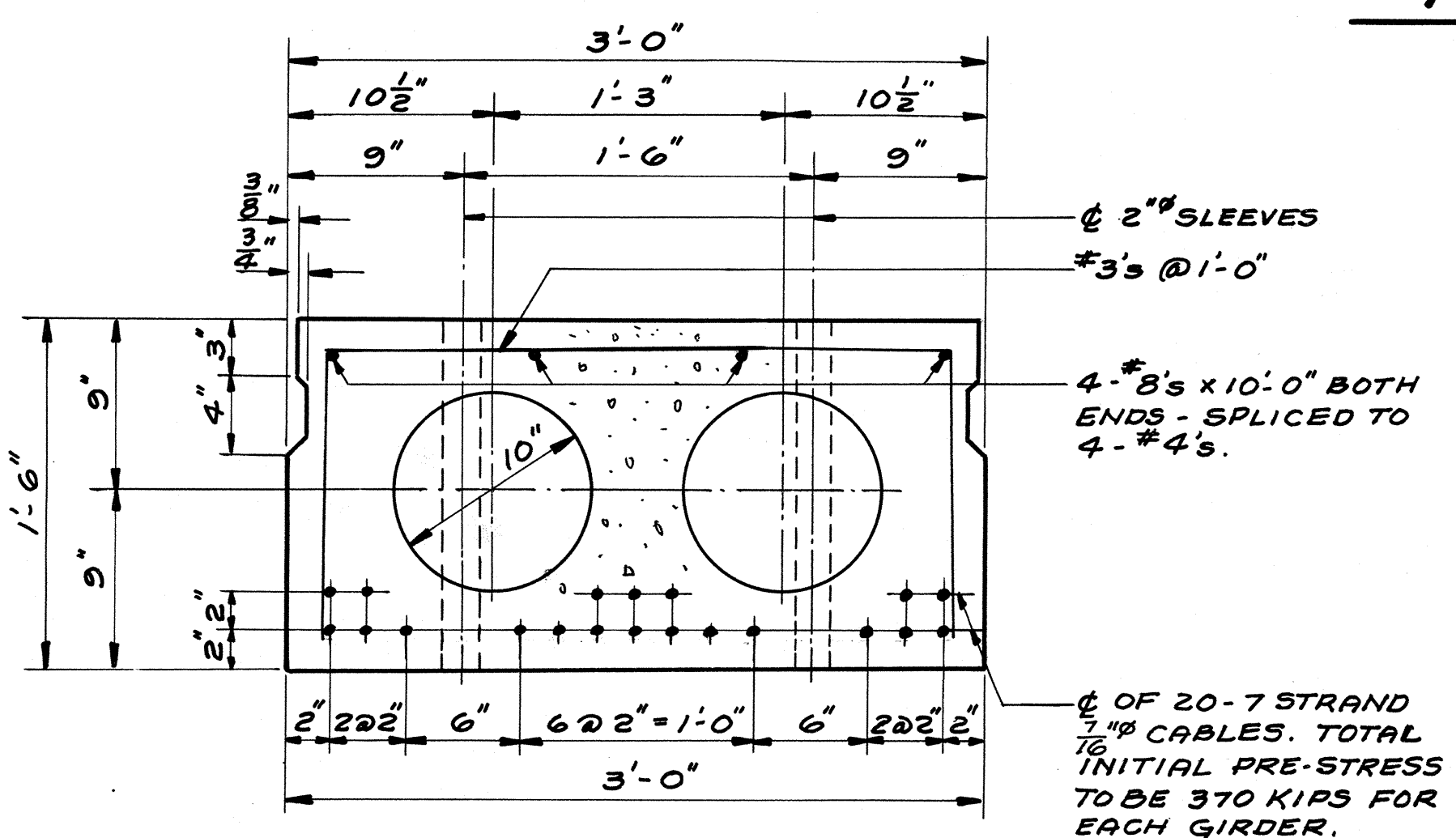


DECK CONNECTION DETAIL

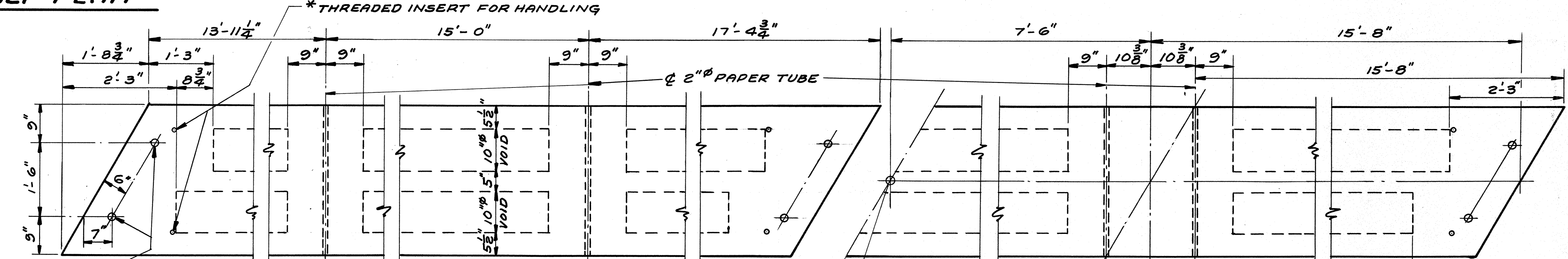


DETAIL AT ABUTMENTS

SHOWING REINF. STEEL IN GIRDERS



TYPICAL GIRDER CROSS SECTION



EXTERIOR

HALF INTERIOR

GIRDER DETAILS

REVISED	STATE HIGHWAY COMMISSION OF WISCONSIN
	SUPERSTRUCTURE
DESIGN SPEC. AASHO 1957	LOADING H 15
DATE 5-9-61	DESIGN O.O.
STRUCTURE B-70-40	SHEET 2 OF 3

X 23460

