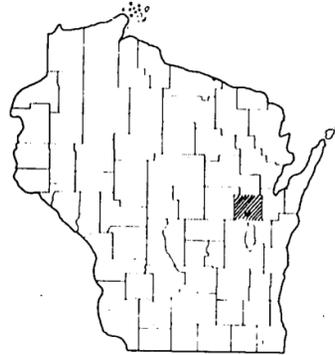


Index of Sheets

Sheet No. 1	Title
Sheet No. 2-2.8	Typical Cross Sections
Sheet No. 3-3.1	Estimate of Quantities
Sheet No. 3A-3B	Miscellaneous Quantities
Sheet No. 4-4.3	Right of Way Plat
Sheet No. 5-28	Plan and Profile Sta. 25+53.55 to Sta. 99+35.00
Sheet No. 29-29.18	Standard Details
Sheet No. 30-51	Drainage Structures
Sheet No. 52-95	Cross Sections



Design Designation

A. D. T. 1970	=	8,300
A. D. T. 1990	=	19,200
D. H. V.	=	1,920
D.	=	55%
T.	=	7%
V.	=	45 M.P.H.

BEGINNING OF PROJECT TO19-4(19), 1502-1-71,72  
 STA. 25 + 53.55  
 N. 164,146.159  
 E. 2,402,297.249  
 535' E. OF THE S. 1/4 CORNER OF  
 SECTION 20 TOWNSHIP 21 NORTH, RANGE 17 EAST

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	-----
Present Right of Way Line	-----	Right of Way Markers	-----
Wire Fence	-----	Reference Stake for Hubs Only	-----
Woven	-----	Marsh	-----
Barbed	-----	Hedge	-----
Lot Line	-----	Trees	-----
Corporate or City Limits	-----	Ground Elevation	Datum Line $R_1$
Property Line	-----	Grade Elevation	Datum Line $R_2$
Traveled Way or P. E.	-----	Bituminous Pavement	-----
Railroads	-----	Existing Sanitary Sewer	-----
Base or Survey Line	-----		
Concrete Removal	-----		
Existing Storm Sewer	-----		

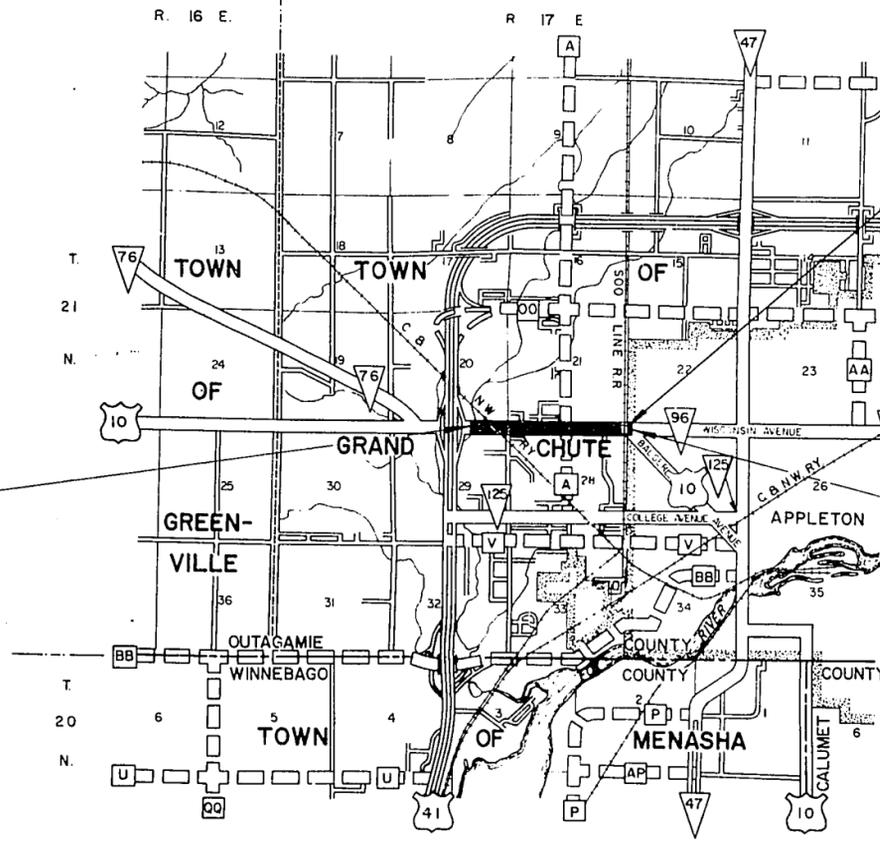
STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 PLAN AND PROFILE OF PROPOSED  
 U.S.H. 41 - APPLETON  
 U.S.H. 10  
 OUTAGAMIE COUNTY

44.1-19.4-21.19

Sheet Number	Total Sheets
1	95

PROJECT IDENTIFICATION NUMBER	PROJECT DESIGNATION
1502-1-71,72	T 019-4(19)

PLAN 1 IN. = 100 FT. & 20 FT.  
 PROFILE HOR. 1 IN. = 100 FT. & 20 FT. VERT. 1 IN. = 10 FT. & 2 FT.  
 CROSS SECTIONS HOR. 1 IN. = 5 FT. VERT. 1 IN. = 5 FT.



STA. 98+79.35 TO 98+92.06  
 EXCEPTION TO NET C. LENGTH

GN

END OF PROJECT TO19-4(19), 1502-1-71,72  
 STA. 99 + 35.00  
 N. 164,304.487  
 E. 2,409,674.363  
 SOUTHWEST CORNER OF SECTION 22, TOWNSHIP 21 NORTH  
 RANGE 17 EAST

Layout  
 Scale ONE MILE

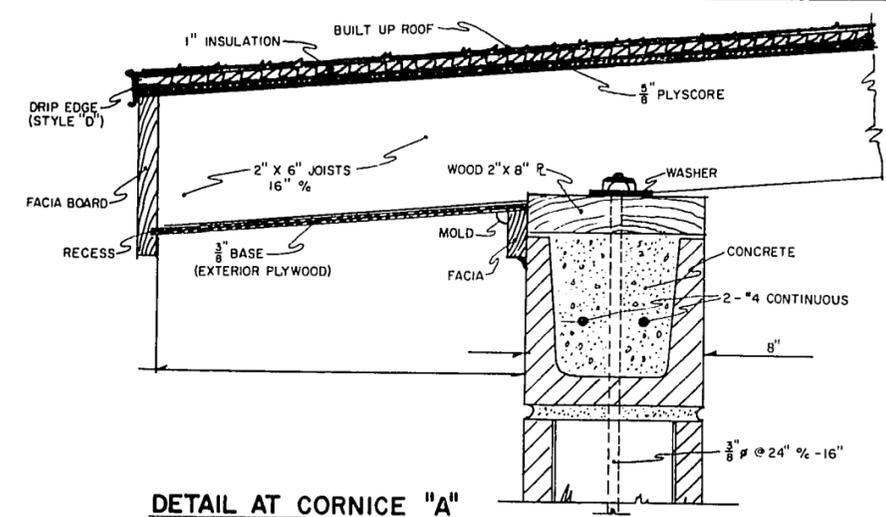
Total Net Length of Centerline = 1.396 Mi.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
Surveyor: C.E.S.	Note Book: 743-744
District Computer: J.E.F., G.F.W.	M.O. Checker: R.C.L.
District Checker: R.L.J., J.E.M., J.E.F.	Correct:
Date: 5-6-70	<i>S.W. Ramsey</i> District Engineer
Date: 5/22/70	<i>E.J. Byrskik</i> Chief Design Engineer
Date: 5/22/70	<i>W.J. Burmeister</i> State Highway Engineer
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION BUREAU OF PUBLIC ROADS	
REGION: WISCONSIN DIVISION	
Approved:	
Date:	Division Engineer

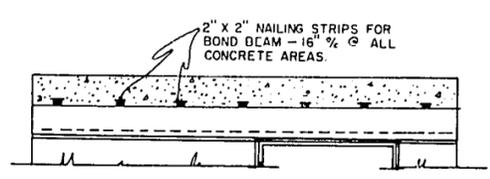
T019-4(19)



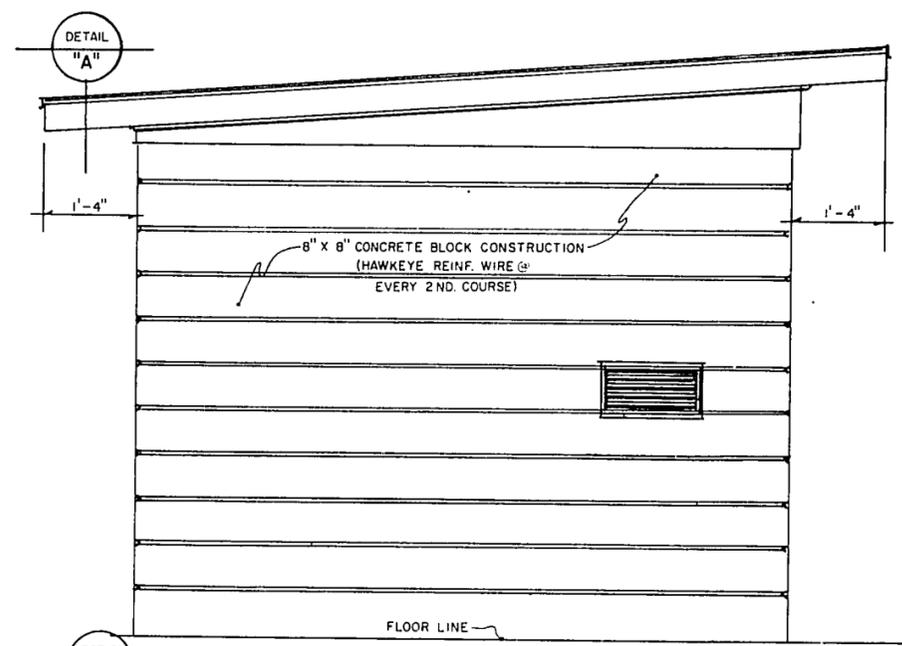
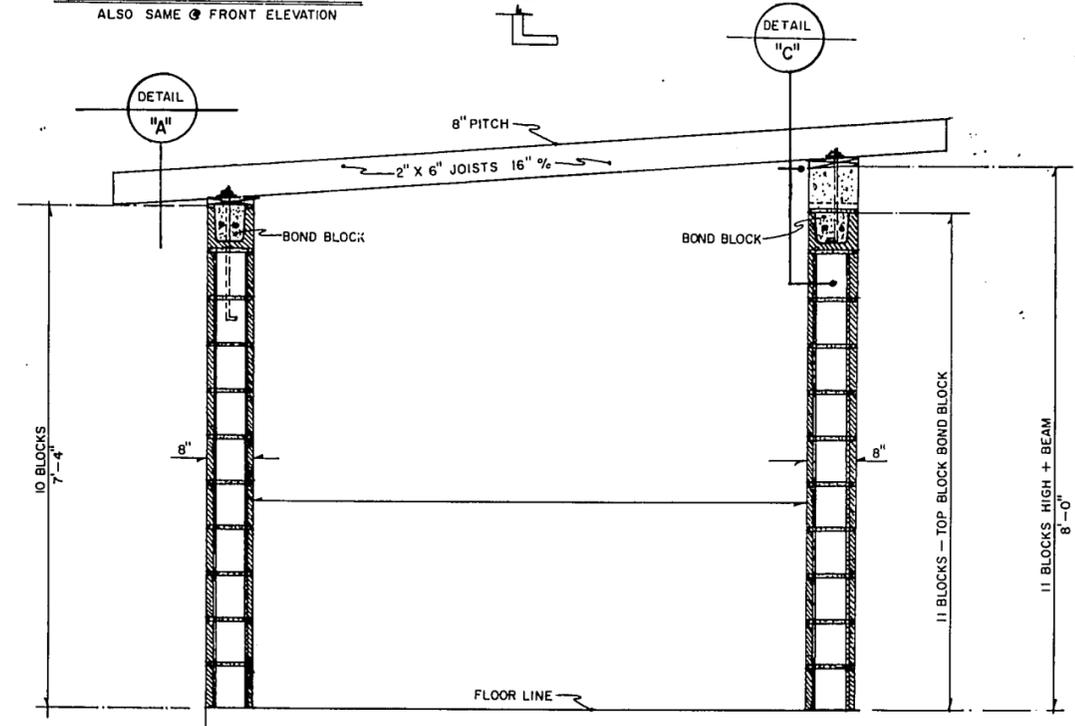
PROJECT ID	1502-1-71,72	SHEET NUMBER	TOTAL SHEETS
PROJECT DESIGNATION	T 019-4' (19)	2.6	95
CONSTRUCTION DETAILS			
FOR PUMP HOUSE			
SCALE VARIABLE			



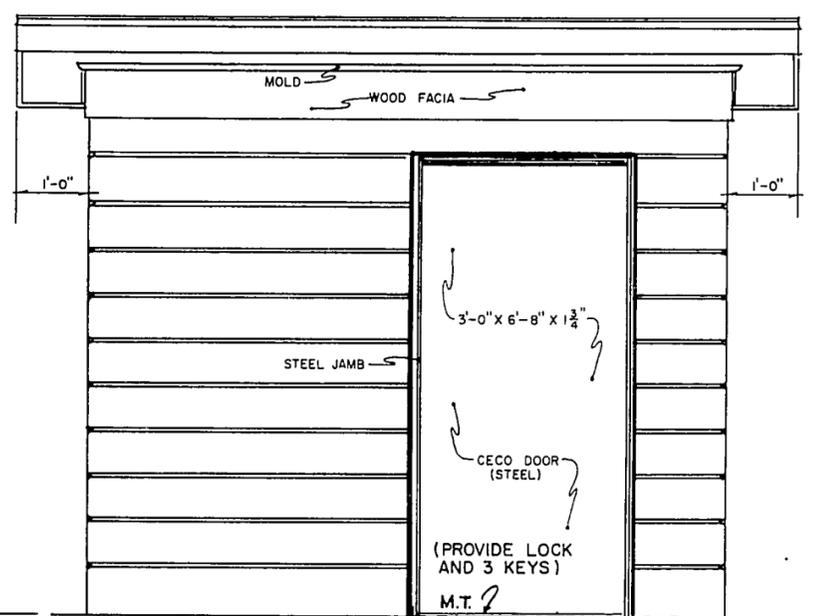
**DETAIL AT CORNICE "A"**  
ALSO SAME @ FRONT ELEVATION



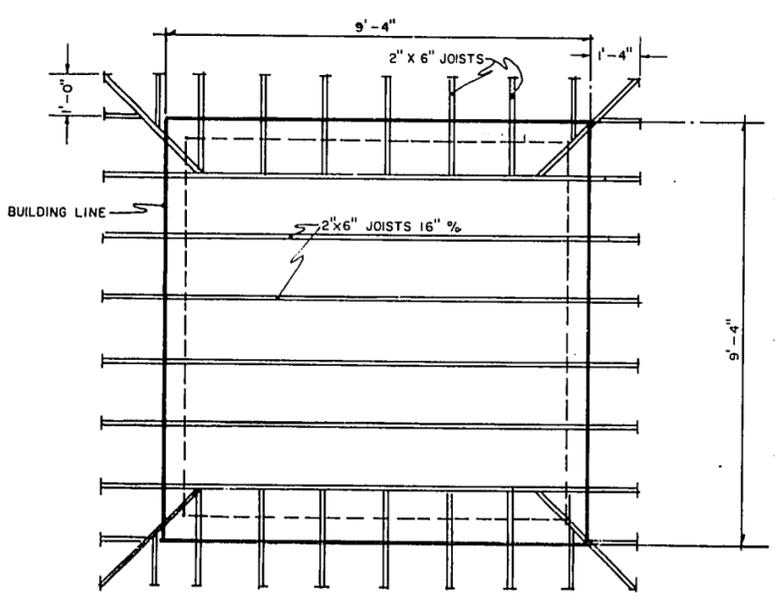
**DETAIL HEADER "C"**



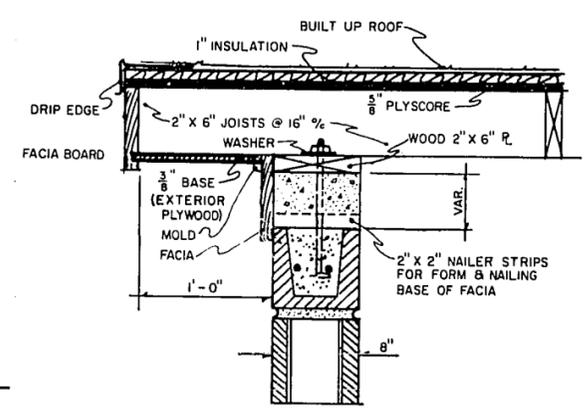
**LEFT ELEVATION**



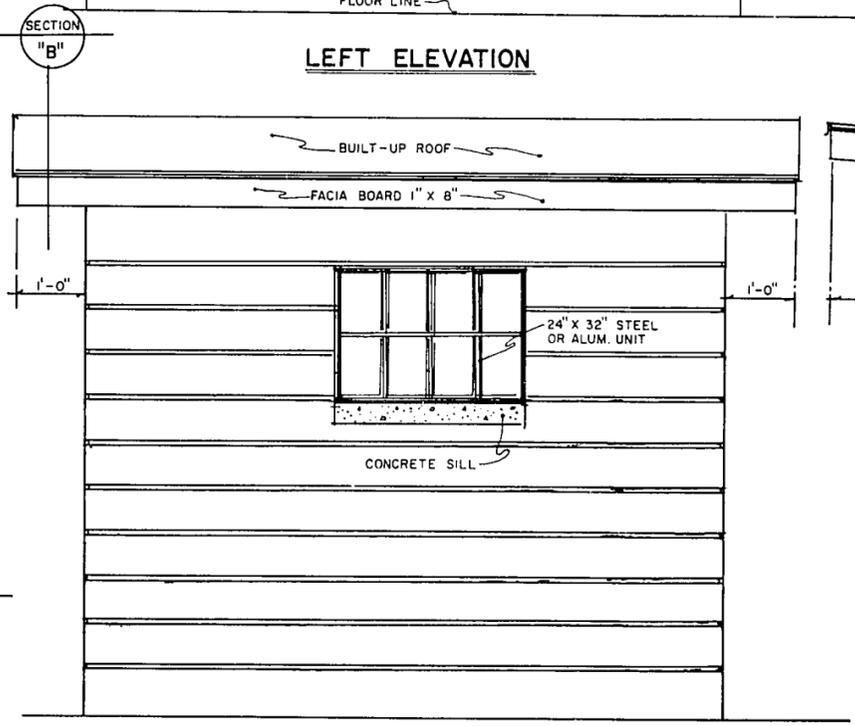
**FRONT ELEVATION**



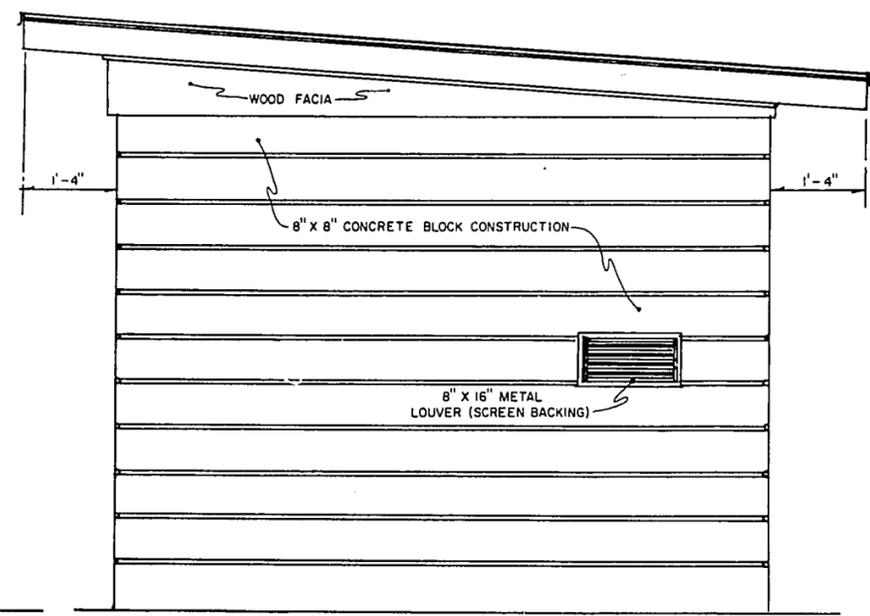
**ROOF FRAMING**



**DETAIL AT SIDE CORNICE "B"**

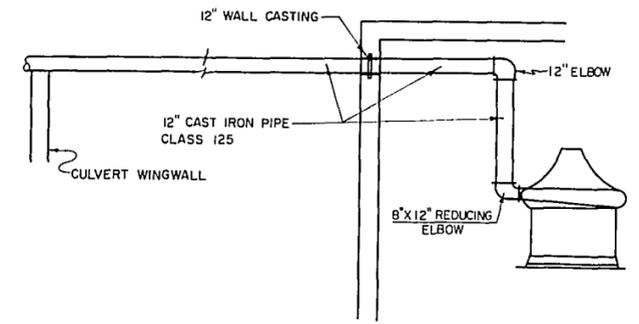
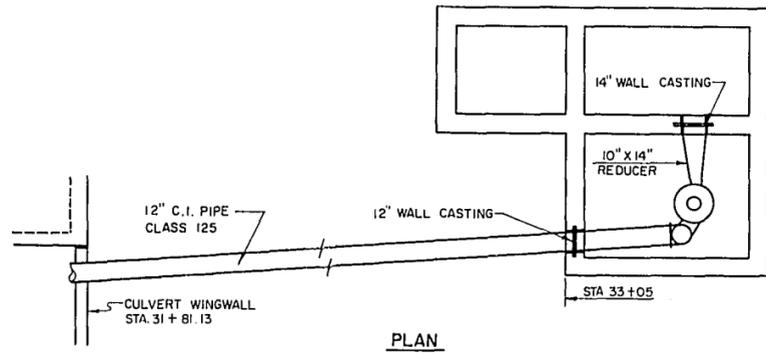


**REAR ELEVATION**



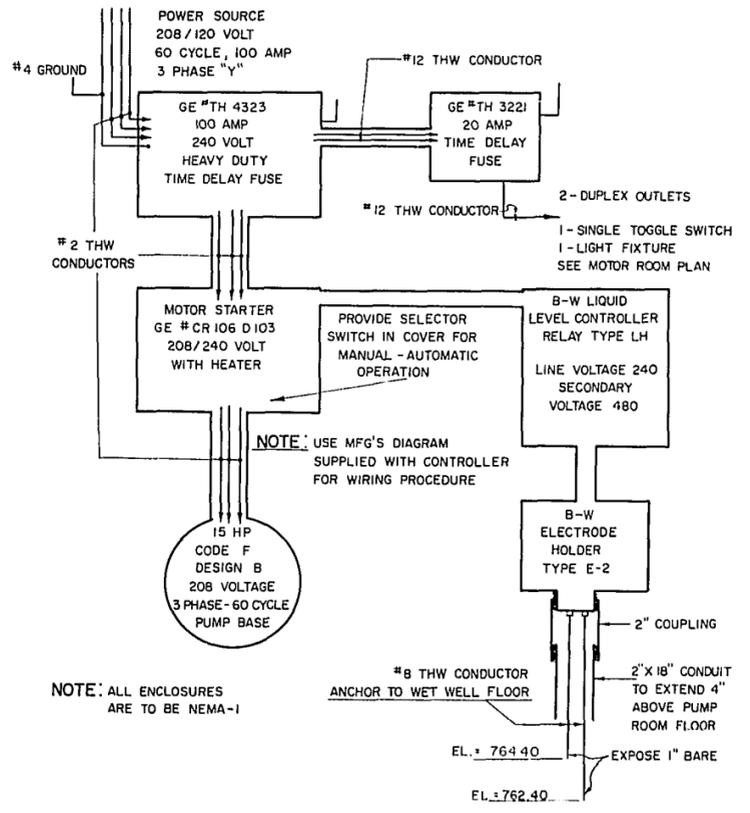
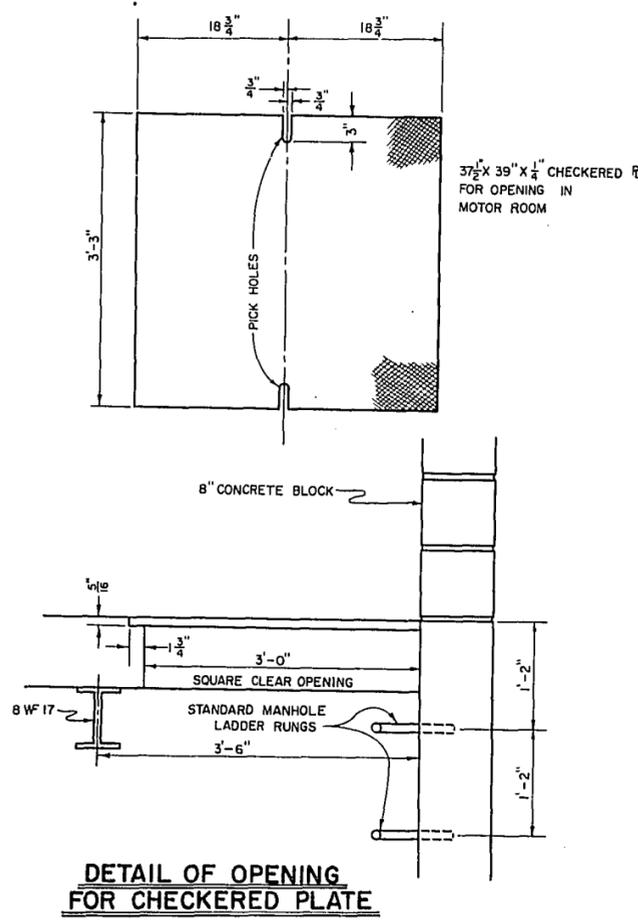
**RIGHT ELEVATION**

**NOTE:**  
ALL JOINTS TO BE STRUCK HORIZONTAL & VERTICAL  
JOINTS FLUSH - PAINT FINISH ON BLOCK - TWO COATS  
WATERPROOF BROWN FINISH PAINT TRIM TAN COLOR



**PIPING LAYOUT**

BILL OF MATERIAL FOR PUMP HOUSE		
	UNIT	DESCRIPTION
±33	LIN. FT.	CAST IRON PIPE, CLASS 125 (12")
1	EACH	14" WALL CASTING
1	EACH	12" WALL CASTING
1	EACH	4,000 GPM PUMP
1	EACH	12" 90° ELBOW
1	EACH	8" X 12" REDUCING ELBOW
1	EACH	10" X 14" REDUCER
±12	LIN. FT.	R.C. PIPE (27")
35.5	CU. YD.	CONCRETE MASONRY (GRADE AA)
1	EACH	30" SLIDE GATE
1	EACH	TYPE R-6661-NH CASTING (NEENAH FOUNDRY)
1	EACH	8 WF 17 6'-6" LONG
1	EACH	100 AMP FUSE BOX
1	EACH	20 AMP FUSE BOX
1	EACH	MOTOR STARTER
1	EACH	LIQUID LEVEL CONTROLLER
1	EACH	ELECTRODE HOLDER
1	EACH	15 HP MOTOR
310	EACH	CONCRETE MASONRY BLOCKS
260	BF	PLYWOOD & GRADE NO 1 DOUGLAS FIR
115	SF	ROOFING
±4200	LB.	BAR STEEL REINFORCEMENT



**WIRING DIAGRAM**

**GENERAL NOTES**

ALL STEEL SHALL HAVE A CLEAR DISTANCE OF TWO INCHES, EXCEPT THE BOTTOM STEEL IN THE FOOTING WHICH SHALL HAVE THREE INCHES CLEAR.

ALL SURFACES OF WALLS IN CONTACT WITH EARTH FILL SHALL BE GIVEN A "SURFACE DAMP PROOFING".

CONTRACTOR SHALL CHECK ALL ITEMS OF WORK WHICH ARE TO BE INSTALLED IN CONNECTION WITH THE FLOORS AND WALLS TO SEE THAT ALL ITEMS ARE PROPERLY LOCATED AND INSTALLED BEFORE PROCEEDING WITH THE CONCRETE. NO BOXING OF FORMS FOR LATER INSERTION AT PIPES, ETC., WILL BE PERMITTED.

ALL CONDUCTORS SHALL BE THW TYPE EXCEPT AS NOTED.

ALL EQUIPMENT TO BE AS SPECIFIED OR APPROVED EQUAL.

ALL REINFORCING BARS SHALL BE BENT, WHEN POSSIBLE, OR CUT TO ACCOMMODATE PIPES OR CASTINGS IN THE CONCRETE MASONRY. ALL OTHER CUTTING OF BARS WILL NOT BE PERMITTED.

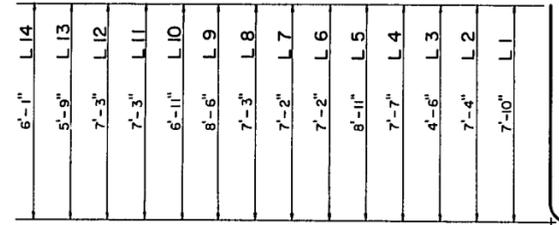
THE DISCHARGE LINE SHALL BE ANCHORED TO CULVERT WINGWALL TO THE SATISFACTION OF THE ENGINEER IN THE FIELD.

ALL WOOD EXPOSED TO THE WEATHER SHALL BE PAINTED ACCORDING TO SECTION 517 OF THE STANDARD SPECIFICATIONS.

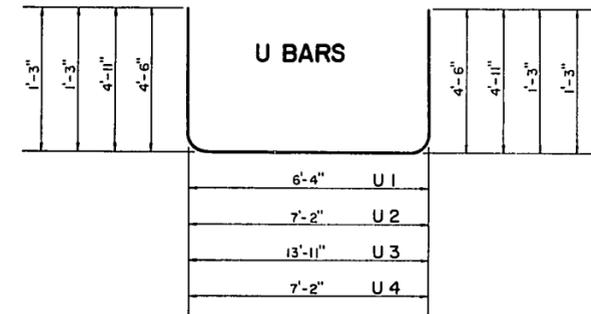
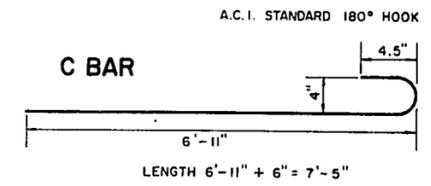
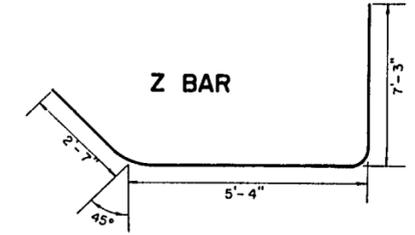
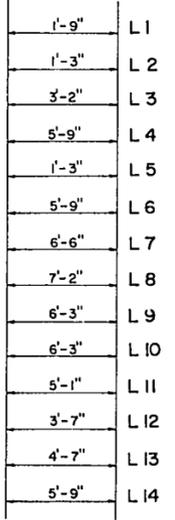
ALL CONSTRUCTION MATERIALS NOT SHOWN IN THE BILL OF MATERIALS, BUT NECESSARY TO COMPLETE PUMP HOUSE, SHALL BE FURNISHED & INSTALLED BY THE CONTRACTOR.

PROJECT I.D. 1502-1-71,72	SHEET NUMBER 2.8	TOTAL SHEETS 95
PROJECT DESIGNATION T 019-4 (19)		
REINFORCING STEEL FOR PUMP HOUSE		

BILL OF REINFORCING STEEL				
MARK	SIZE IN INCHES	NO.	LENGTH	LOCATION
S1	1/2	12	2'-0"	DECK DOWELS, PUMP ROOM - VERTICAL
S1	1/2	28	2'-0"	FOOTING DOWELS, WET WELL - VERTICAL
S1	1/2	28	2'-0"	FOOTING DOWELS, DRY WELL - VERTICAL
S2	1/2	12	7'-0"	WALL MOTOR ROOM
S3	1/2	6	10'-0"	GATEWALL, SUMP - VERTICAL
S3	1/2	7	8'-8"	FOOTING, WET WELL, INTERIOR FACE - HORIZONTAL
S3	1/2	7	8'-8"	FOOTING, DRY WELL, INTERIOR FACE - HORIZONTAL
S3	1/2	7	8'-8"	DECK, DRY WELL, INTERIOR FACE - HORIZONTAL
S3	1/2	7	8'-8"	EXTERIOR E-W WALL DRY, INTERIOR FACE - HORIZONTAL
S3	1/2	7	8'-8"	DECK, DRY WELL, TOP FACE - HORIZONTAL
S4	1/2	5	3'-6"	GATEWALL, SUMP - VERTICAL
S5	1/2	23	10'-7"	WALLS, WET WELL, INTERIOR FACES - VERTICAL
S5	1/2	15	10'-7"	WALLS, SUMP ROOM, INTERIOR FACES - VERTICAL
S5	1/2	28	10'-7"	WALLS, DRY WELL, INTERIOR FACES - VERTICAL
S6	3/4	15	13'-5"	DECK, SUMP-WET WELL, BOTH FACES - HORIZONTAL
S6	3/4	19	13'-5"	DECK, WET - DRY WELL, BOTH FACES - HORIZONTAL
S7	3/4	9	6'-0"	DECK, WET - DRY WELL, TOP FACE - HORIZONTAL
S8	1/2	28	13'-5"	WALL, SUMP-WET WELL - HORIZONTAL
S8	1/2	19	13'-5"	WALL, WET - DRY WELL - HORIZONTAL
S8	1/2	9	13'-5"	FOOTING, WET - DRY WELL - HORIZONTAL
S9	1/2	5	6'-8"	FOOTING, SUMP - HORIZONTAL
S9	1/2	10	6'-8"	DECK, SUMP, BOTH FACES - HORIZONTAL
S9	1/2	7	6'-8"	EXTERIOR N-S SUMP WALL - HORIZONTAL
U1	1/2	1	15'-4"	FOOTING, SUMP
U2	1/2	1	17'-0"	FOOTING, SUMP
U3	1/2	7	16'-5"	EXTERIOR N-S WALL, DRY-WET WELL
U4	1/2	7	9'-8"	EXTERIOR N-S WALL, SUMP
L1	3/8	10	9'-7"	WALL, WET WELL, VERTICAL
L1	3/8	10	9'-7"	WALL, DRY WELL, VERTICAL
L2	1/2	14	8'-7"	WALL, DRY WELL, VERTICAL
L2	1/2	8	8'-7"	WALL, WET WELL, VERTICAL
L2	1/2	18	8'-7"	WALL, SUMP, VERTICAL
L3	1/2	7	7'-8"	FOOTING, SUMP
L4	3/8	8	13'-4"	FOOTING, WET WELL
L5	1/2	7	10'-2"	WALL, DRY WELL, HORIZONTAL
L6	3/8	2	12'-11"	FOOTING, DRY WELL
L7	3/8	1	13'-8"	FOOTING, WET WELL
L8	3/8	1	14'-5"	FOOTING, WET WELL
L9	3/8	8	14'-9"	FOOTING, WET WELL
L10	3/8	8	13'-2"	FOOTING, DRY WELL
L11	3/8	5	12'-4"	FOOTING, SUMP
L12	3/8	5	10'-10"	FOOTING, SUMP
L13	3/8	7	10'-4"	FOOTING, DRY WELL
L14	3/8	7	11'-10"	FOOTING, DRY WELL
Z1	3/4	8	15'-2"	FOOTING, SUMP
C1	1/2	2	7'-5"	WALL, DRY WELL, HORIZONTAL
S8	1/2	1	9'-2"	WALL, WET - DRY WELL, HORIZONTAL
S8	1/2	2	1'-3"	" " " " "
S8	1/2	1	2'-2"	" " " " "



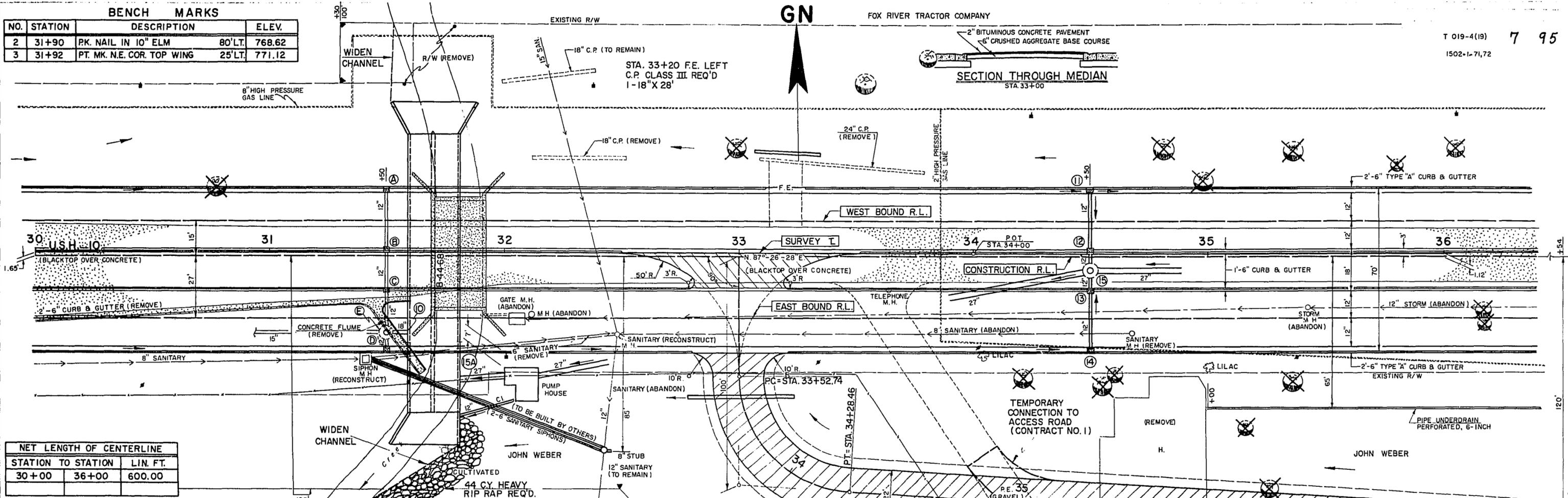
L BARS



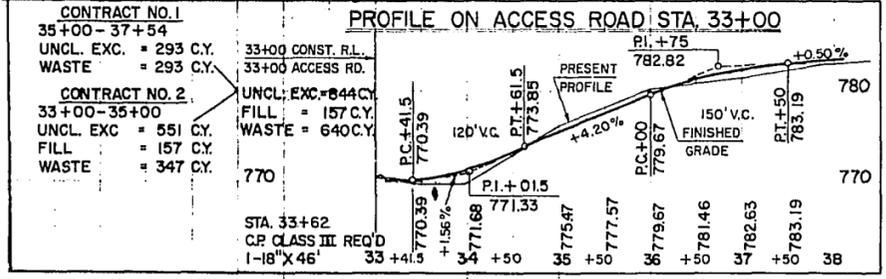
NO.	STATION	DESCRIPTION	ELEV.
2	31+90	PK. NAIL IN 10" ELM	80'LT. 768.62
3	31+92	PT. MK. N.E. COR. TOP WING	25'LT. 771.12

FOX RIVER TRACTOR COMPANY

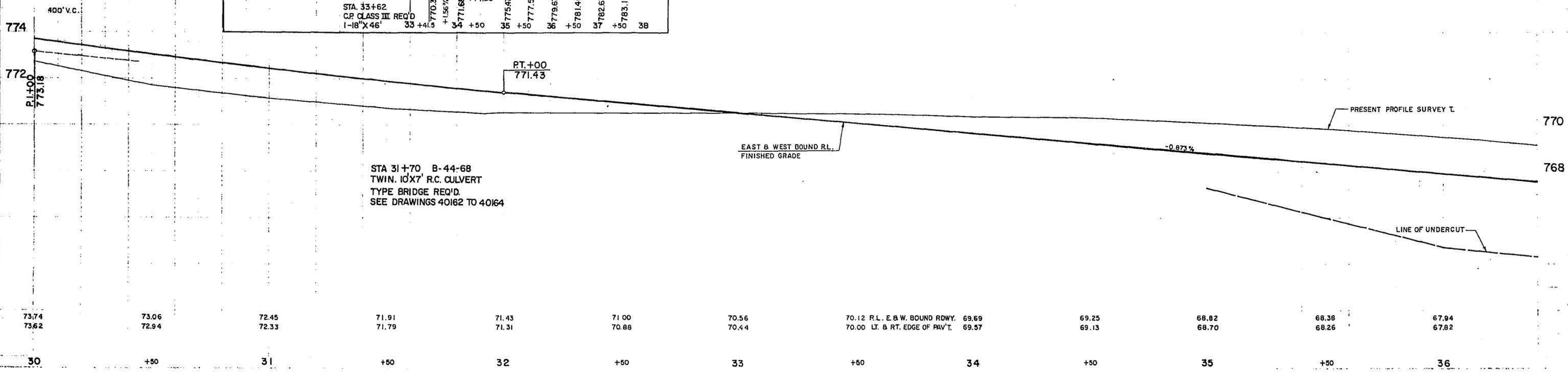
T 019-4(19) 7 95  
1502-1-71,72



NET LENGTH OF CENTERLINE	
STATION TO STATION	LIN. FT.
30+00	36+00
	600.00



**ACCESS ROAD CURVE NOTES**  
 PI = 34+00  
 Z = 93°-14'-01"  
 Δ = 86°-45'-59"  
 D = 114°-35'-29.61"  
 T = 47.26'  
 L = 75.72'  
 R = 50'



73.74	73.06	72.45	71.91	71.43	71.00	70.56	70.12 R.L. E & W BOUND RDWY.	69.69	69.25	68.82	68.38	67.94
73.62	72.94	72.33	71.79	71.31	70.88	70.44	70.00 LT. & RT. EDGE OF PAV'T.	69.57	69.13	68.70	68.26	67.82

30 +50 31 +50 32 +50 33 +50 34 +50 35 +50 36

S.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	TO19-4(19)	26	95

1502-1-71

