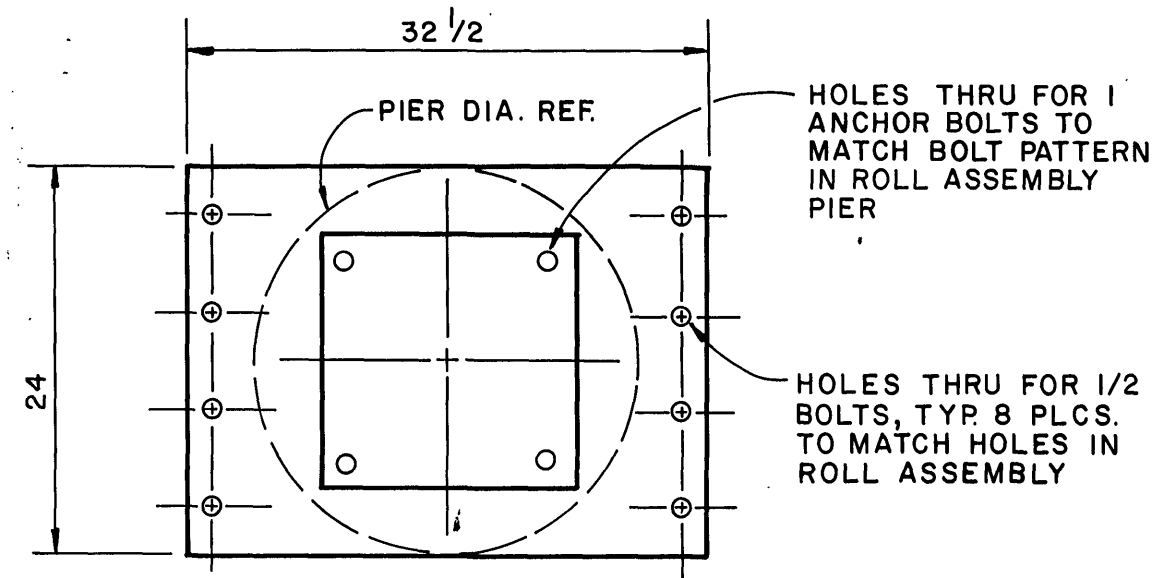
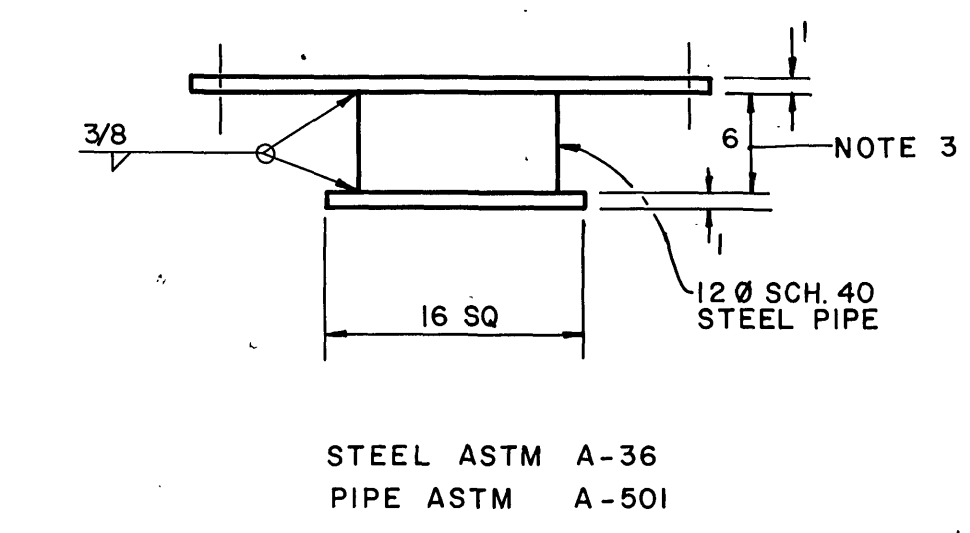
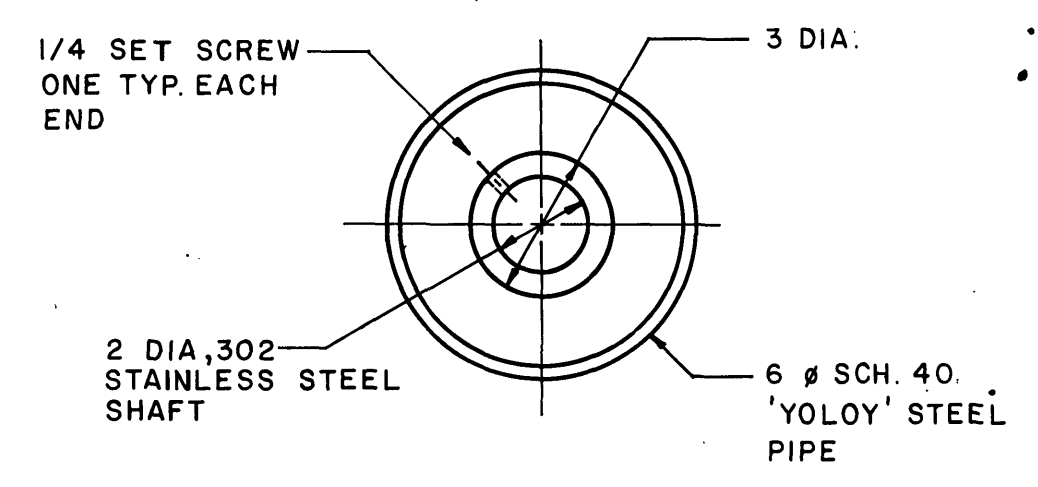
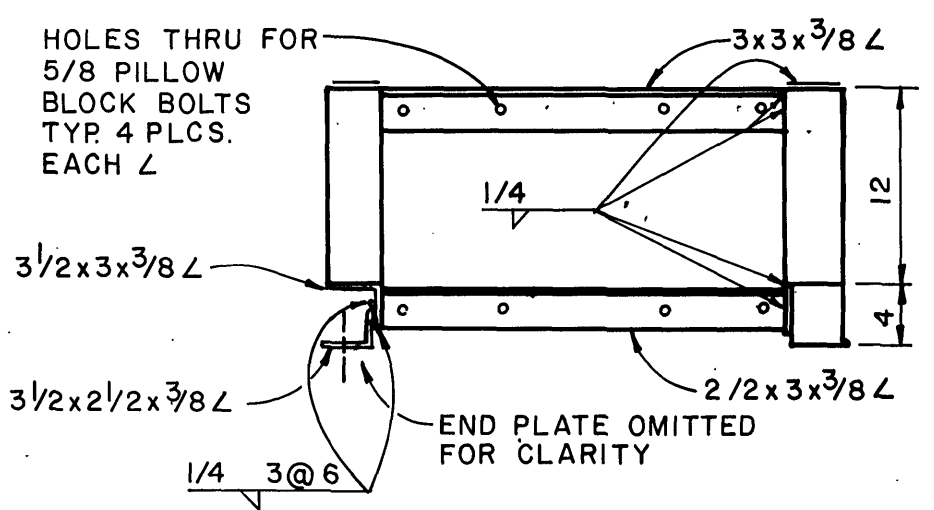




ROLL ASSEMBLY BED PLATE
SCALE: 1" = 1'-0"
SEE NOTES



CABLE ROLL DETAIL
TYP FOR 3
SCALE: 3" = 1'-0"

WINCH AND ROLL PIER CONSTRUCTION NOTES

1. BORE PIER CAVITY IN COMPACTED FILL OR UNDISTURBED EARTH W/MECHANICAL AUGER.
2. PROVIDE RUNWAYS FOR EQUIPMENT NEAR OPENING TO PROTECT THE TOP OF THE CUT.
3. REMOVE ALL LOOSE MATERIAL FROM THE CAVITY BEFORE PLACING CONCRETE.
4. POUR CONCRETE DIRECTLY AGAINST THE EARTH AS SOON AS POSSIBLE AFTER BORING.
5. PROTECT THE CAVITY FROM RAINWATER AND EXCESSIVE DRYING BY COVERING THE OPENING AND THE SURROUNDING AREA W/PLASTIC SHEETING, IF THE CONCRETE CANNOT BE PLACED WITHIN 4 HOURS OF BORING OR IF THERE IS RAIN.
6. CONDUCT ALL OPERATIONS SO AS TO MINIMIZE EARTH DISTURBANCE WITHIN AND NEAR THE TOP OF THE BORED CAVITY.

EQUIPMENT LIST

(TWO COMPLETE WINCH INSTALLATIONS PLUS ONE ADDITIONAL BED PLATE INSTALLATION)

DESIGN IS BASED ON THE FOLLOWING COMPONENTS, HOWEVER EQUIVALENT EQUIPMENT OF EQUAL PERFORMANCE WILL BE ACCEPTABLE.

2 EA. **WINCH** - BRADEN AMSU12-12F WORM GEAR WINCH. CABLE CAPACITY 500 FT., 3/8" SIZE WIRE ROPE.

2 EA. **DRIVE** - 1750 RPM C FACE RIGHT ANGLE MOTOR REDUCTION GEAR DRIVE. 30:1 REDUCTION, 58.3 RPM OUTPUT, 2 HP, 460 V, 3-PHASE ENCLOSED MOTOR. DRIVE RATED 1550 INCH-POUNDS OUTPUT. EQUAL TO BROWNING. FURNISH WITH OIL IMPREGNATED BRONZE JAW TYPE COUPLING AND STUB SHAFT ADAPTOR TO MATCH COUPLING TO WINCH INPUT SHAFT.

WINCH FRAME - 1 EACH AS SHOWN.

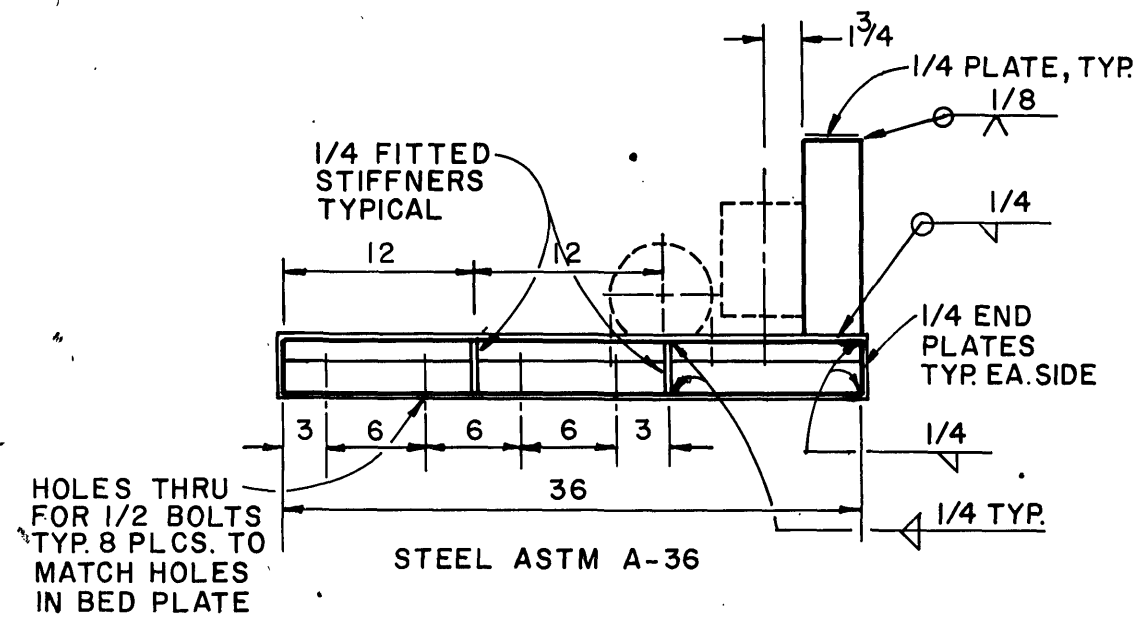
WINCH BED PLATE - 1 EACH AS SHOWN.

ROLL ASSEMBLY - 1 EACH AS SHOWN.

ROLL ASSEMBLY BED PLATE - 3 EACH AS SHOWN.

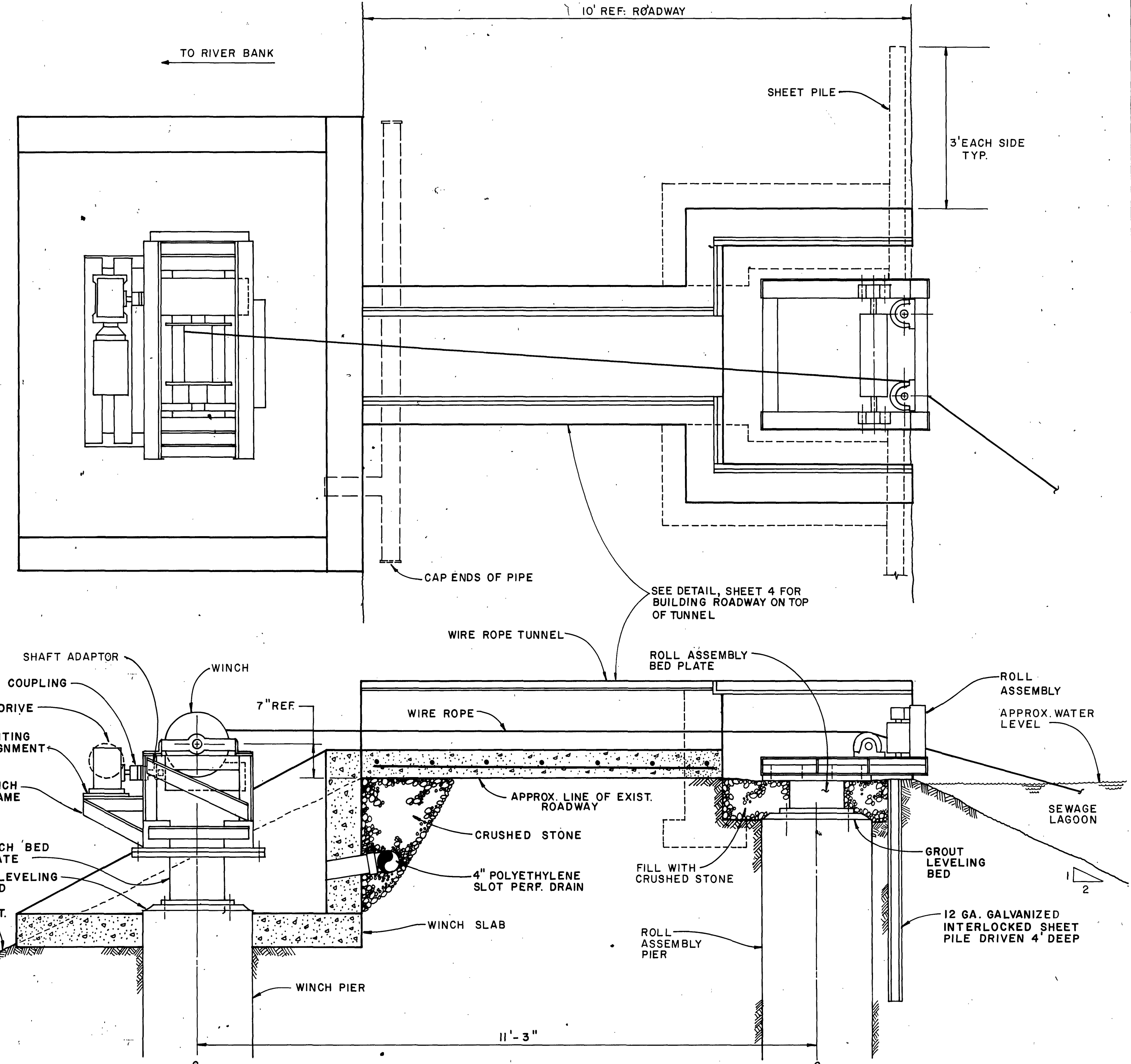
PILLW BLOCKS - 10 EACH, 2" SIZE SPHERICAL ROLLER BEARING TYPE WITH GREASE FITTING AND LOCKING COLLAR, FMC P-B22432H.

WIRE ROPE - 3/8" SIZE STAINLESS STEEL 7 X 19 STRAND AIRCRAFT TYPE. FURNISH 500' NET (AFTER INSTALLATION) FOR EACH WINCH.



ROLL ASSEMBLY
SCALE: 1" = 1'-0"
SEE NOTES

ALL DIMENSIONS IN INCHES UNLESS NOTED



WINCH INSTALLATION
SCALE: 3/4" = 1'-0"
SEE DETAILS FOR COMPONENT PARTS

WINCH INSTALLATION NOTES

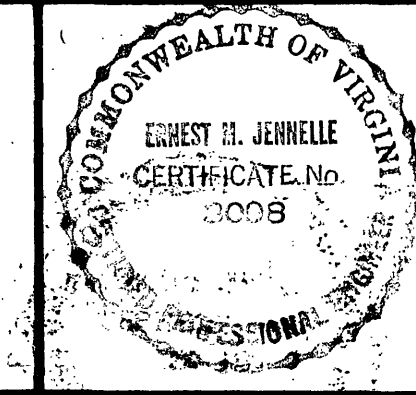
1. AFTER FABRICATION BED PLATES, WINCH MOUNTING FRAME, AND ROLL ASSEMBLY FRAME SHALL BE SAND BLAST CLEANED AND COATED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS WITH "CARBOLINE-CARBOMASTIC" 14" EPOXY-COAL TAR COATING.
2. DIMENSION DETERMINED FROM WINCH AND DRIVE USED, VERIFY WITH COMPONENTS USED BEFORE FABRICATING FRAME.
3. DIMENSION DETERMINED FROM TOP ELEVATION OF BORED PIER AND GROUT BED. VERIFY EXACT DIMENSION OR SET AS REFERENCE FOR OTHER PIECES.

NO	DATE	DESCRIPTION
2		
1		
REVISIONS		
SCALE:	AS SHOWN	SHEET 21 OF 33
DATE:	AUG. 1981	FILE NUMBER PP 2967
DESIGNED BY:	DB	
DRAFTED BY:	DPC	

Dewberry & Davis

ENGINEERS ARCHITECTS PLANNERS SURVEYORS

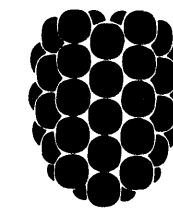
8411 Arlington Boulevard Fairfax, Virginia 22031 Telephone 703-560-1100
19201 Montgomery Village Ave. Gaithersburg, Md. 20760 Tele. 301-948-4120



PREPARED FOR
CITY OF ROANOKE
ROANOKE, VIRGINIA

CITY OF ROANOKE WASTEWATER TREATMENT PLANT
SLUDGE DEWATERING FACILITIES

WINCH DETAILS



BRUNING 44-142 15862