GOVERNING SPECIFICATIONS

THE 1988 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPOTATION 'STANDARD SPECIFICATIONS FOR CONSTRUCTION' AS AMENDED BY THE MAY 2, 1994 SUP-PLEMENTAL SPECIFICATIONS SHALL GOVERN.

JOINT WATERPROOFING SPECIFICATIONS THIS-WORK-SHALL CONSIST OF WATERPROOFING THE JOINTS INDICATED WATERPROOFING THE JOINTS INDICATED

A ONE FOOT WIDE STRIP OF APPROVED MEMBRANE SHALL BE CENTERED ON THE JOINT ON A SURFACE THAT HAS BEEN PRIMED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

THE MEMBRANE SHALL CONSIST OF POLYPROPYLENG MESH OF 0.000 INCHES MINIMUM THICKNESS, SURPACE COATED WITH 0.005 INCHES OF WAX ASPHALT EAYED OVER 0.060 INCHES OF RUBBERIZED COVERING, WHICH SHALE REMAIN ON THE MEMBRANE UNTIL IT IS READY FOR PLACEMENT.

SPEECES IN THE JOINT WATERPROOFING MEMBRANE MAY BE MADE ONLY WHEN PERMITTED BY THE ENGINEER AND SHALL CONSIST OF A EAP OF NOT LESS THAN SIX INCHES.

FURNISHING AND PLACING THE WATERPROOFING AS SPECIFIED ABOVE? WILL BE CONSIDERED TO BE AN INCIDENTAL EXPENSE FOR WHICH NO DIRECT COMPENSATION WILL BE MADE.

NOTE ITEM NO.

2021.501

2433.501

MOBILIZATION

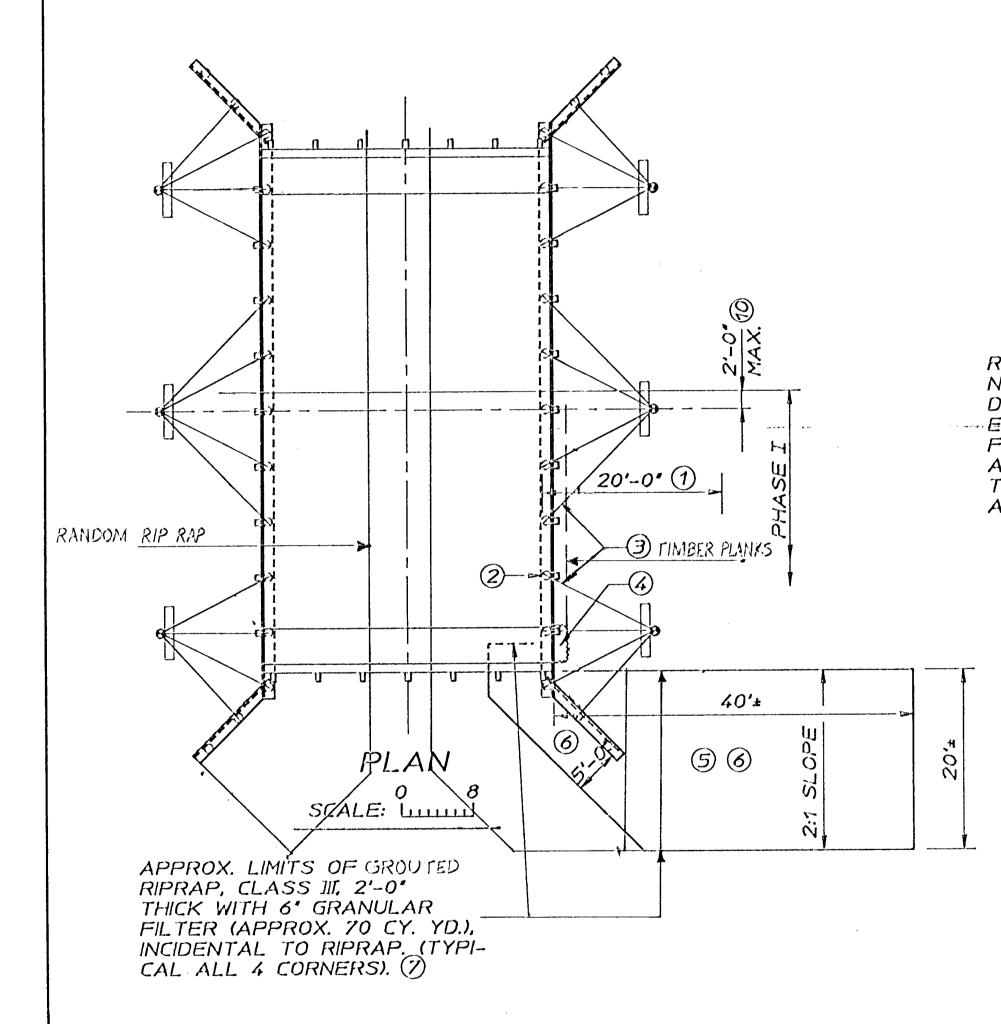
2401.501 | STRUCTURAL CONCRETE (3Y33)

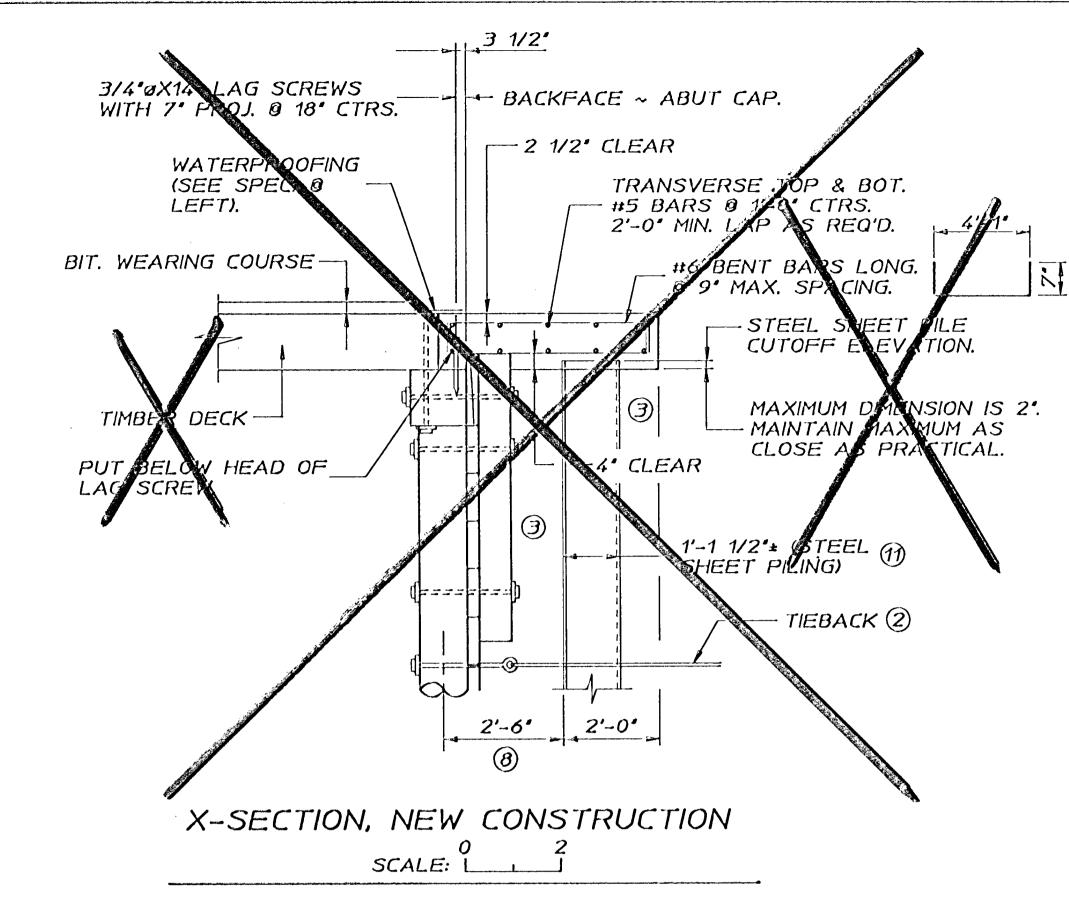
STRUCTURE REMOVALS

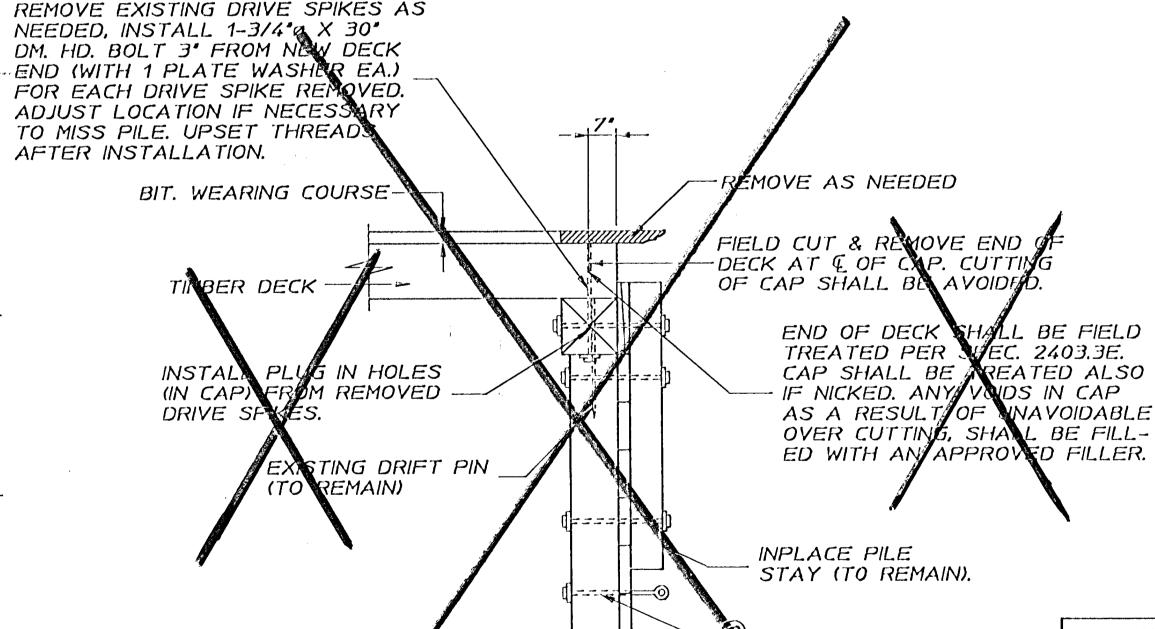
2104.505 REMOVE BITUMINOUS PAVEMENT

2401.541 | REINFORCEMENT BARS (EPOXY COATED)

2403.506 HARDWARE (GALV. PER SPEC. 3392)







NOTE: REMOVALS, CUTTING OF DECK AND FIELD TREATING TO BE INCLUDED IN PRICE BID FOR STRUCTURE REMOVALS.

X-SECTION, REMOVALS 0 2 SCALE: _____J

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CONSTRUCTION NOTES

- (1) REMOVE EXISTING BITUMINOUS PAVEMENT AS DIRECTED BY THE
- (2) DISCONNECT EXISTING CABLE FROM TIMBER PILE BY REMOVING EYE-BOLT. AFTER SHEET PILING IS DRIVEN, CUT HOLE JUST LARGER THAN DIAMETER OF CABLE & EYEBOLT IN SHEET PILING AND RECON-NECT EYEBOLT TO TIMBER PILE MATCHING ORIGINAL CONDITIONS. TIGHTEN NUT UNTIL TIE-BACK CABLE IS TIGHT, WITH SLACK RE-MOVED, ONLY 1 OR 2 TIE BACKS SHALL BE DISCONNECTED AT ANY ONE TIME. INCLUDED IN PRICE BID FOR STRUCTURE REMOVALS. TAS DIRECTED BY THE ENGINEER.
- EXERPRETATION REGUIRED LIVEUS UNDER TENEFUS ARROS INDIFERENCE. WESENDE OF DECKETANDE DRIVE SHEBTERENGEBACKFILE WHEN ARE TECTED WORK IS COMPLETED INCLUDED IN PRICE-BID FOR STRUC-STURE EXCAVATION?
- (4) BACKFILL EXISTING VOIDS WITH AGGREGATE BEDDING, AS APPROVED BY THE ENGINEER.
- REMOVE ALL OF EXISTING BITUMINOUS FROM EDGE OF SIDEWALK DOWNSLOPE TO WHERE BITUMINOUS TERMINATES AT WATER. INCLUDED IN PRICE BID FOR REMOVE BITUMINOUS, REGARDLESS OF DEPTH AND EXISTING BASE MATERIAL.
- CUT AND FILL AS REQUIRED TO ESTABLISH 2:1 SLOPES TO APPROXI-MATE LIMITS SHOWN, AS APPROVED BY THE ENGINEER IN THE FIELD. INCLUDED IN PRICE BID FOR SLOPE PREPARATION.
- (7) RIPRAP SHALL BE FIELD STONE, OR QUARRY RUN CONSISTING OF ST. CLOUD GRANITE OR PRAIRIE DUCHIEN DOLOSTONE (SOUTH METRO QUARRIES). OTHER QUARRY RUN MAY BE USED IF APPROVED BY THE ENGINEER.
- (8) ***SHON SHALL BE MAINTAINED AT ATOR OF SHEET RILING VERIEND # EUMBNESS OBJEXISTING TIMBER PILES BEFORE DRIVING SHEET PILING.
- (9) ALL TRAFFIC CONTROL DEVICES AND LAYOUTS SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND TEM-PORARY TRAFFIC CONTROL ZONE LAYOUTS FIELD MANUAL, DATED APRIL 1995.
- BHENSION SHOULD BE LIMITED TO PROVIDE 12 LANES IF 120SSIBLED # MORE THAN 24 IS REQUIRED TO COMPLETE PHASE 1, ONLY 1 LAND GRAFFIC SHALL BE PERMITTED ACROSS THE BRIDGE TEMPORARILY. EGREONLY THE TIME NEEDED TO DISCONNECT & RECONNECT TIES BAGKMATZEHATZEOCATION
- (1) STEEL SHEET PILING SHALL BE 322 LONG BELOW CUTOFF ELEVATION STEEL SHEET PILING TO BESTRINITY L. CASTEEL CZ114RD OR EQUAL GRADE 50 MINIMUMS ARE: WALL THICKNESS 0.28 SM/In.ft. 22 In 3>
- 2 6' BITUMINOUS WEAR COURSE INCLUDES: 6' AGGREGATE BASE CLASS 5, 4" TYPE 31 BASE COURSE, 2" TYPE 41 WEAR COURSE.

CONSTRUCTION REQUIREMENTS SHALL CONFORM TO M.H.D. 2433.

SEE EXISTING BRIDGE PLANS FOR FURTHER INFORMATION.

CONTRACTOR SHALL VERIFY THAT UTILITY COMPANIES HAVE BEEN NOTIFIED AND THAT THE UTILITIES WILL NOT INTERFERE WITH HIS OPERATIONS. SEE EXISTING BRIDGE PLANS FOR UTILITIES ON BRIDGE.

WORK SHALL BE COMPLETED IN RHASES AS SHOWN WORK FOR PHASE LISHALL BE GOMPLETED BEFORE WORK FOR PHASE ILISO STARTED UNLESS NOTED OTHERWISE ATWO LANES OF TRAFFIGE SHALL BE MAINTAINED DURING EACH PHASE UNLESS NOTED !! *QTHERWISE*∠(SEE NOTE40)**>>**

APPROVED: COUNTY ENGINEER ANOKA COUNTY DATE: _____

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE: 9/8/97

PLANS PREPARED BY: ERICKSON ENGINEERING
3340-REPUBLIC AVENUE
ST.LOUIS PARK, MN 55426

BRIDGE NO. 02527

2 MILES N.W. OF CENTERVILLE BETWEEN GEORGE WATCH LAKE & PELTIER LAKE. 1-32 FT. TREATED TIMBER PANEL SPAN 48'-4' ROADWAY 2-5 FT. SIDEWALKS. SPAN IDENT. NO. 709

GENERAL PLAN & MISC. DETAILS

SEC. 15 TWP. 31N R22W LINO LAKE TYP. ANOKA COUNTY C.P. 97-73-00

SHEET 1 OF 1 SHEETS DES: DWN: 02527 CHK: CHK:

RANDOM RIPRAP, CLASS III 2511.501 SQ. YD. 75. 6' THICK BITUMINOUS WEARING COURSE 2340.521 LUMP SUM SLOPE PREPARATION 0331.601 LUMP SUM STRUCTURE EXCAVATION 0401.601 SQ. FT. 0 STEEL SHEET PILING (PERMANENT) 0401.601 LUMP SUM TRAFFIC CONTROL 0653.601 TON 100 2451.509 AGGREGATE BEDDING PRECAST CABLE CONCRETE (35 LBS. / SQ. FT.) 3200 SQ. FT. ALT 2 CU. YD. GROUTED RIP RAP 230

SCHEDULE OF QUANTITIES FOR REPAIR WORK AT ABUTMENTS

QUANTITY

 $^{\circ}O$

 \circ

5000

350

 \circ

UNIT

LUMP SUM

CU. YD.

POUND

POUND

LUMP SUM

SQ. FT.

TON