

FINANCIAL ASSISTANCE PROVIDED BY THE STATE HIGH WATER INFRASTRUCTURE GRANT PROGRAM, AUTHORIZED UNDER SECTION 1006 OF PUBLIC ACT 87 OF 2021.

## KALKASKA COUNTY ROAD COMMISSION

IN COOPERATION WITH CLEARWATER TOWNSHIP

PLANS OF PROPOSED IMPROVEMENTS

UNDERHILL ROAD

KALKASKA COUNTY, MICHIGAN

SECTION 13 & 14, T28N, R9W, CLEARWATER TOWNSHIP

TRAFFIC DATA

ADT 2023 = 350 (5% COMMERCIAL) ADT 2043 = 360 (5% COMMERCIAL)

THE EXISTING UTILITIES LISTED BELOW AND SHOWN ON THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY AS TO ITS ACCURACY AND THE LOCATION OF

FIBER & CABLE COLI, INC. FIBER OPTICS 7280 RAPID CITY ROAD, PO BOX 100

RAPID CITY, MI 48676 231-331-4622

GREAT LAKES ENERGY COOPERATIVE

630 MAGNUM DRIVE KALKASKA, MI 49646

231-357-9211 FRONTIER/VERIZON TELEPHONE CONTACT: CHUCK HARDIN

CONTACT: DEREK SMITH

989-732-8575

TELEPHONE

ELECTRIC

PROJECT LOCATION RAPID RIVER PERE MARQUETTE LAKE SKEGEMOG STATE FOREST T-28N 32 T-28N FIRE RIDGE LN.

THE EXISTING UTILITIES LISTED BELOW AND SHOWN ON THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY AS TO ITS ACCURACY AND THE LOCATION OF **EXISTING UTILITIES** 

SOIL EROSION & SEDIMENTATION CONTROL MEASURES

GUARDRAIL TYPES A, B, BD, T, TD, MGS-8, & MGS-8D

GUARDRAIL APPROACH TERMINAL TYPES 2B & 2T GUARDRAIL DEPARTING TERMINAL TYPES B,T,& MGS

\*R-67-G GUARDRAIL ANCHORAGE, BRIDGE, DETAILS

\*R-100-I SEEDING AND TREE PLANTING

GRADING CROSS-SECTIONS R-105-D GUARDRAIL AT INTERSECTIONS

\*SPECIAL DETAIL - INCLUDED IN THE PLANS

**GENERAL NOTES** 

EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED HEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2020 STANDARD SPECIFICATIONS FOR CONSTRUCTION.

PAVEMENT MARKING AND THE PLACING OF TRAFFIC SIGNS SHALL BE DONE IN ACCORDANCE WITH THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AS REVISED.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH 3R GUIDELINES AS DETAILED IN THE MICHIGAN DEPARTMENT OF TRANSPORTATION LOCAL AGENCY PROGRAMS GUIDELINES FOR GEOMETRICS, 2017 EDITION.

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174, 2013, THE CONTRACTOR SHALL DIAL 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN NOT RELIEVE THE CONTRACTO OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS-DIG" ALERT SYSTEM.

PROJECT LENGTH = 0.54 MILES

**CONTRACT FOR:** AGGREGATE BASE, HMA SURFACING, AND DRAINAGE IMPROVEMENTS.

KALKASKA COUNTY ROAD COMMISSION APPROVAL

**CHAIRMAN** 

MANAGER - JOHN S. ROGERS

PREPARED UNDER THE SUPERVISION OF

REBECCA E. RIVARD, P.E.

50497

REGISTERED PROFESSIONAL ENGINEER REGISTRATION NO.

> HURON ENGINEERING AND SURVEYING, INC. ORGANIZATION

3205 US-23 SOUTH, ALPENA, MI 49707 **ADDRESS** 



SHEET

TITLE

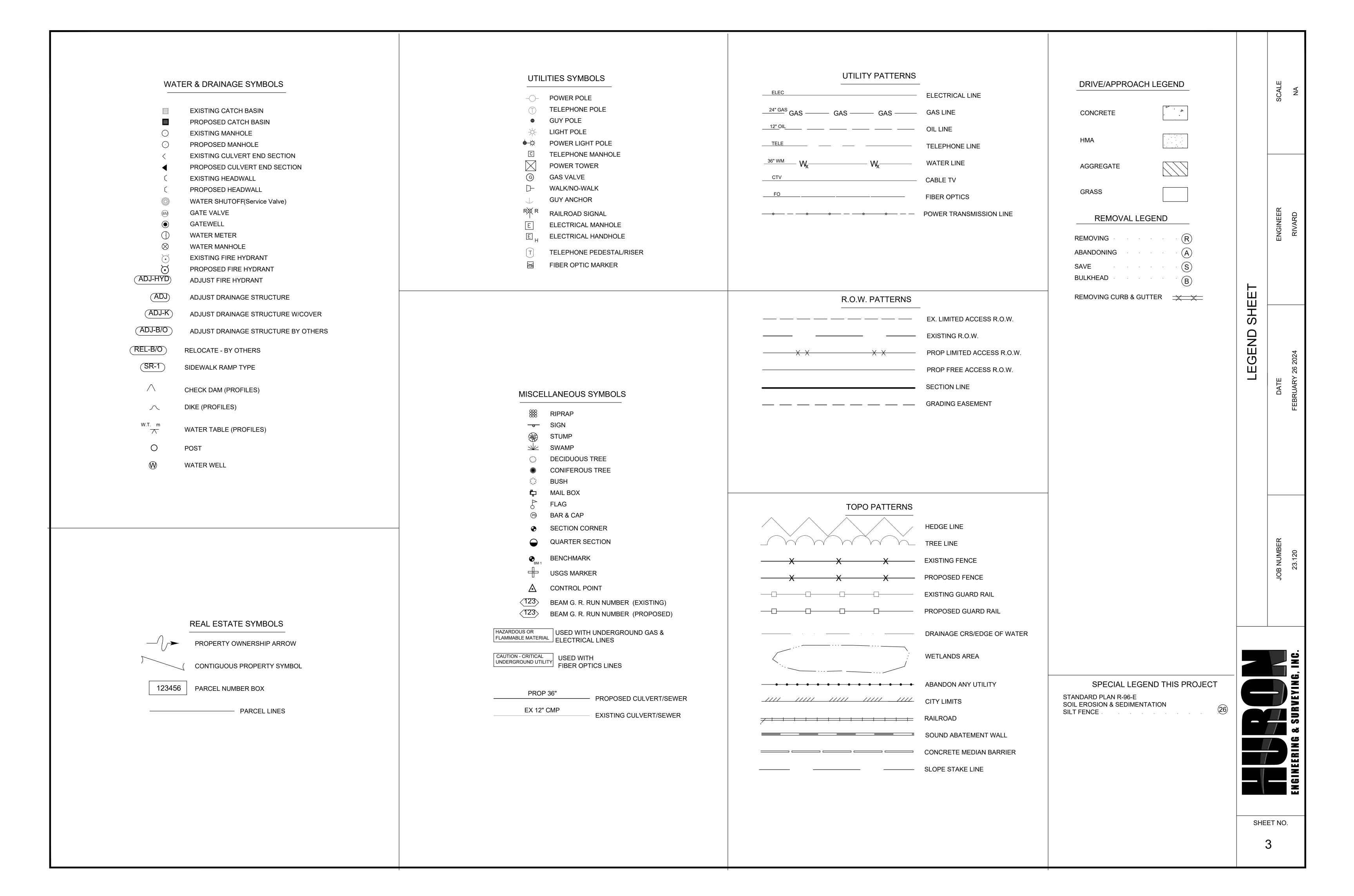
SHEET NO.

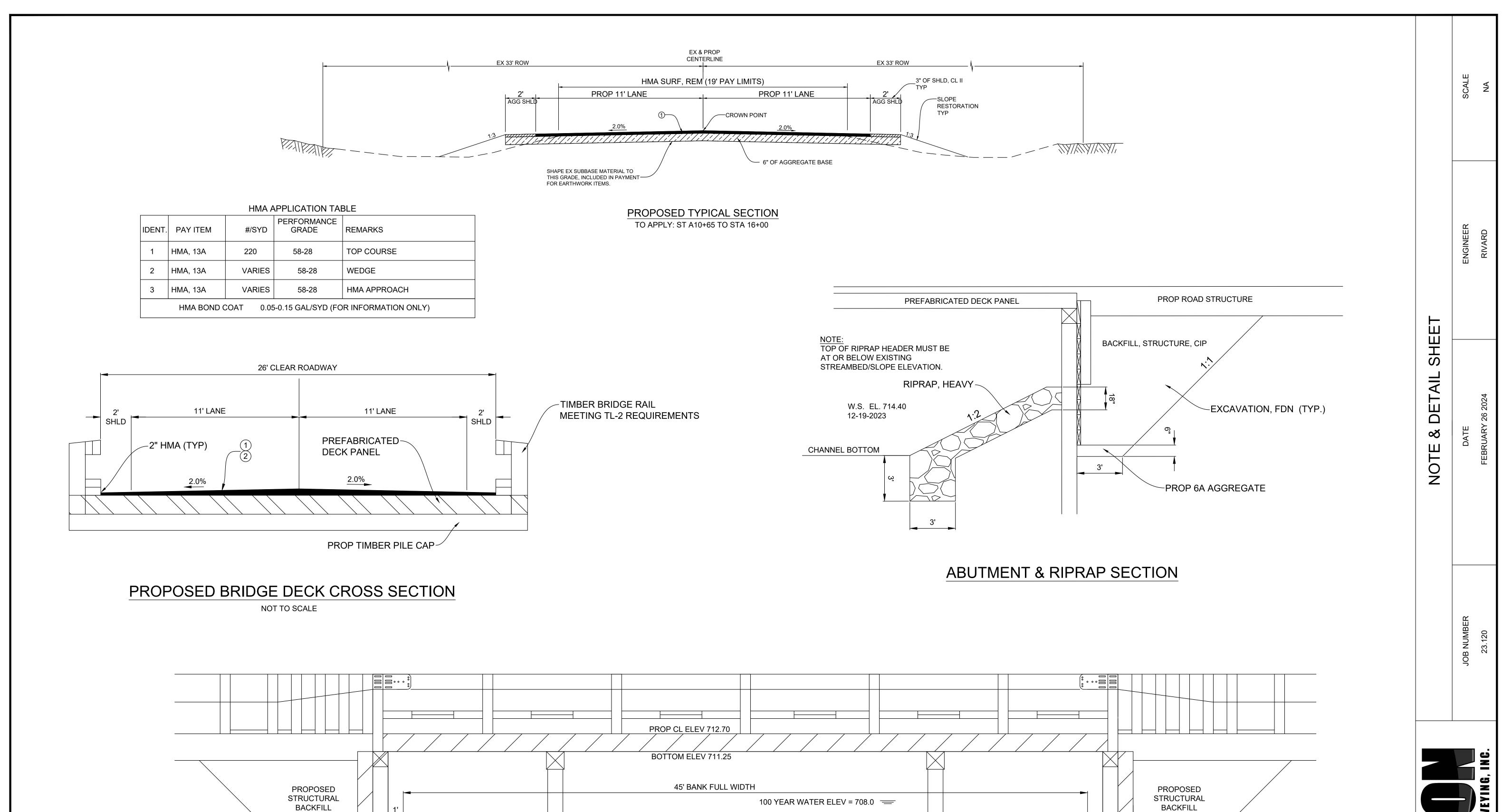


TITLE SHEET SHEET 2 NOTE & DETAIL SHEET

SHEET 4

SHEET 3 LEGEND SHEET PLAN SHEET





MINIMUM PILE DEPTH OF 686.3'
TYP

25' CENTER SPAN

12' APPROACH SPAN

SHEET NO.

PROPOSED BRIDGE CROSS SECTION

PROP ABUTMENT-

12' APPROACH SPAN

