

LIVONIA PUBLIC SCHOOLS 2025 PAVING PROGRAM

BENTLEY FIELD TRACK RESURFACING

ENGINEERING PLANS

31971 FIVE MILE RD.
LIVONIA, MI 48154

NTH PROJECT NO. 23001951-03

LIST OF ABBREVIATIONS

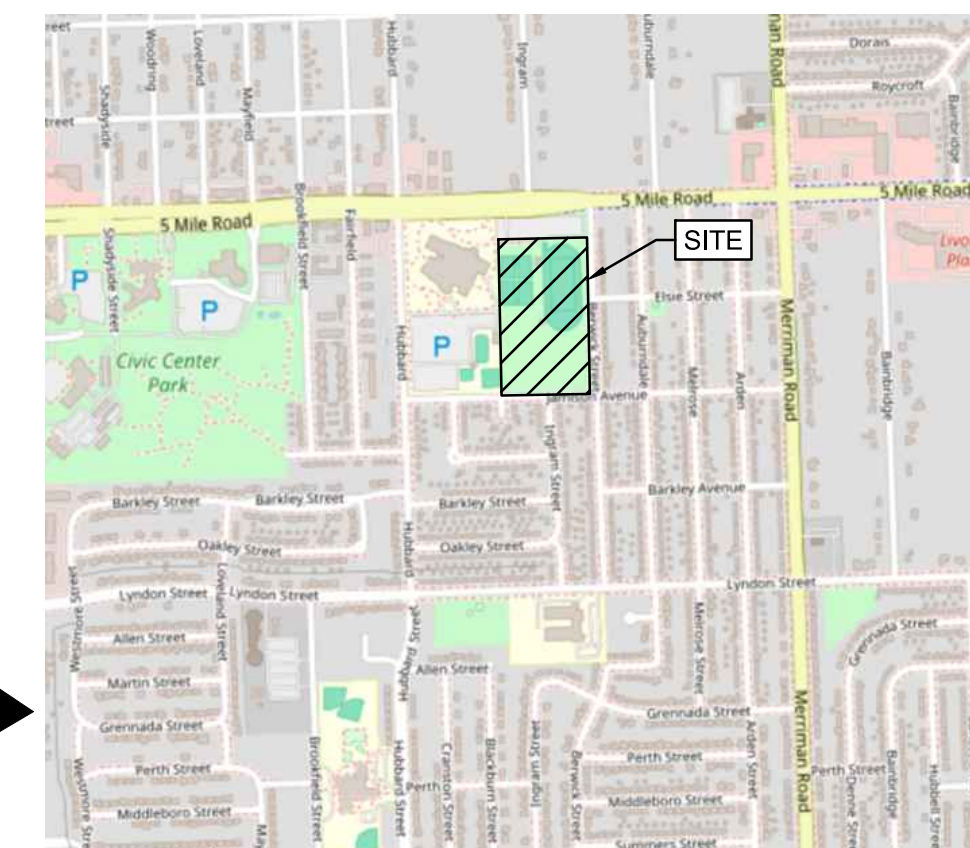
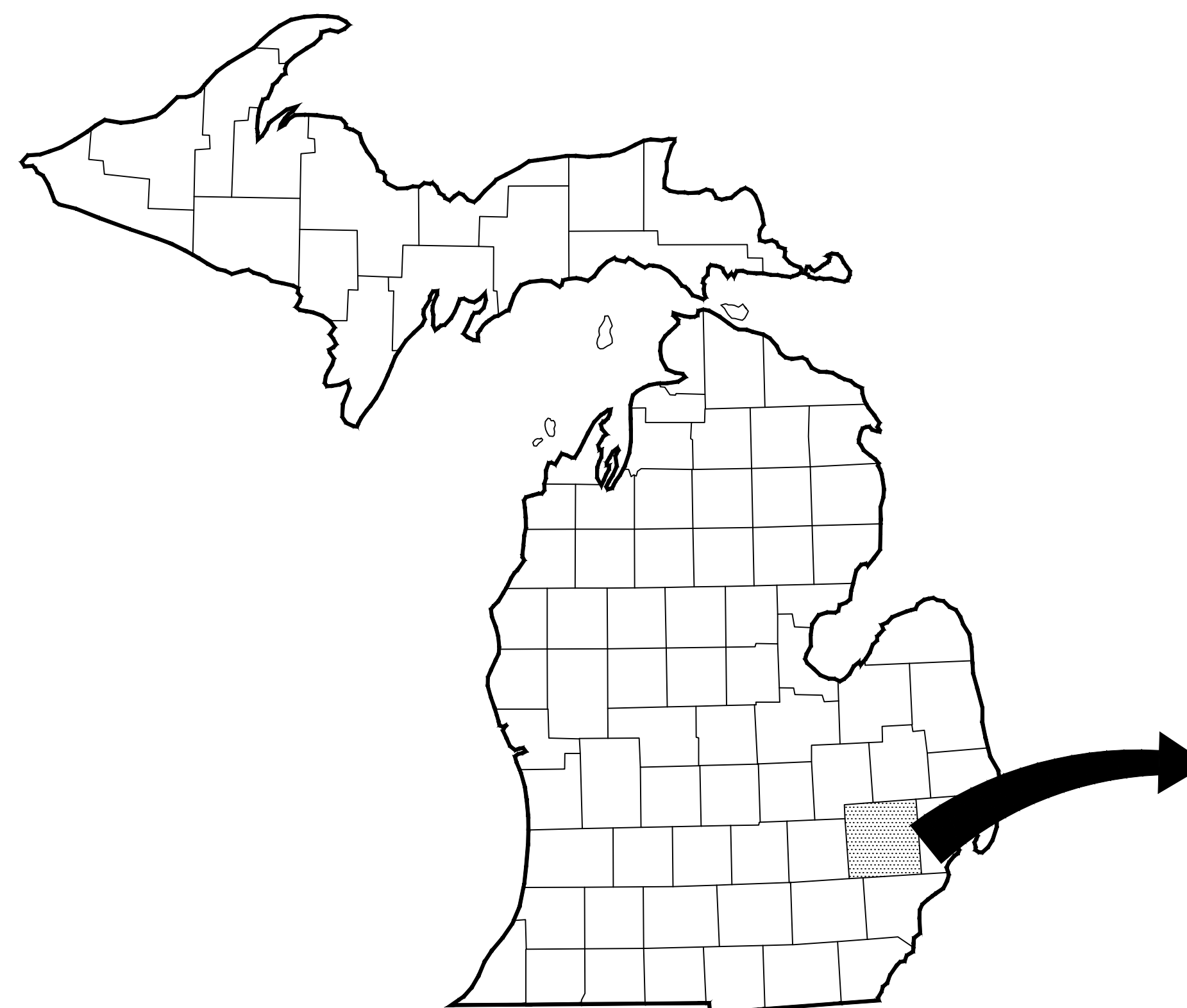
@	AT	FM	FORCEMAIN	PT	POINT
⊥	CENTERLINE	FNDN	FOUNDATION	POT	POINT OF TANGENCY
°	DEGREE OR DEGREES	FO	FIBER OPTIC	PVC	POLYVINYL CHLORIDE
∅	DIAMETER	FT	FOOT OR FEET	PVMT	PAVEMENT
'	FOOT, FEET	FTG	FOOTING	PZ	PNEUMATIC PIEZOMETER
"	INCH, INCHES	FWY	FREEWAY		
#	NUMBER OR POUND	G	GAUGE	R	RADIUS
±	PLUS OR MINUS	GALV	GALVANIZED	RCP	REINFORCED CONCRETE PIPE
A	ANCHOR BOLT	GMP	GROUND MONITORING POINT	RD	ROAD
AB	ACRE(S)	GB	GRADE BEAM	REINF	REINFORCED/REINFORCEMENT
AC	APPROXIMATE	GP	GUSSET PLATE	REQD	REQUIRED
ARCH	ARCHITECTURAL	GS	GROUND SURFACE	R.O.W.	RIGHT OF WAY
ASPH	ASPHALT	GR	GRADE	RR	RAILROAD
ASTM	AMERICAN STANDARDS AND TESTING MATERIALS	GV	GATE VALVE	RTNG	RETAINING
AVG	AVERAGE	GV&W	GATE VALVE AND WELL	S	SOUTH
		GW	GATE WELL	S	SANITARY
B	BOTTOM	H	HIGH/HORIZONTAL	SB	SOIL BORING
B	BOTTOM	HGL	HYDRAULIC GRADE LINE	SC	SHEAR CONNECTOR/SHEAR CONNECTION
BIT	BITUMINOUS	HOR	HORIZONTAL	SCH	SCHEDULE
BLDG	BUILDING	HP	HIGH PRESSURE	SE	SOUTHEAST
BM	BENCHMARK	HT	HEIGHT	SEC	SECTION
B.O.	BLOW OFF	I	INCLINOMETER	SESC	SOIL EROSION AND SEDIMENT CONTROL
BOF	BOTTOM OF FOUNDATION	ID	INNER DIAMETER	SF	SQUARE FOOT
BP	BASE PLATE	IE	INVERT ELEVATION	SHT	SHEET
BRG	BEARING	IN	INCH(ES)	SIM	SIMILAR
BRKT	BRACKET	INV	INVERT	SPA	SPACE/SPACING
BSMT	BASEMENT	J	JOIST	SL	SPLICE LENGTH
BW	BOTTOM OF WALL	JT	JOINT	SLG	SLAB ON GRADE
C	CATCH BASIN	L	LENGTH/LONG	SQ	SQUARE
C-C	CENTER TO CENTER	LBS	POUNDS	SS	STAINLESS STEEL
CF	CUBIC FEET	LF	LINEAR FEET	SSP	STEEL SHEET PILE
CFS	CUBIC FEET PER SECOND	LVL	LEVEL	STA	STATION
CI	CAST IRON	M	METER	STD	STANDARD
CIP	CAST-IN-PLACE	MAS	MASONRY	STIFF	STIFFENER
CJ	CONTROL JOINT	MATL	MATERIAL	STL	STEEL
CLR	CLEAR	MAX	MAXIMUM	STM	STORM
CMP	CORRUGATED METAL PIPE	MDOT	MICHIGAN DEPARTMENT OF TRANSPORTATION	STRUC	STRUCTURAL
CMU	CONCRETE MASONRY UNIT	MECH	MECHANICAL	SUP	SUPPORT
CNU	CONSTRUCTION JOINT	MH	MANHOLE	SW	SOUTHWEST
CO	CLEAN OUT	MJ	MECHANICAL JOINT	S/W	SIDEWALK
COL	COLUMN	MTD	MANUFACTURED TREATMENT DEVICE	SWM	STORMWATER MANAGEMENT
CONC	CONCRETE	MTL	METAL	SY	SQUARE YARDS
CONT	CONTINUOUS	MIN	MINIMUM	T	TOP
CONST	CONSTRUCTION	MM	MILLIMETER	T	TEST BORING
COV	COVER	MW	MONITORING WELL	T&B	TOP AND BOTTOM
CP	CAP PLATE	N	NORTH	TC	TOP OF CONCRETE
CSO	COMBINED SEWER OUTFALL	NB	NORTHBOUND	TEMP	TEMPORARY
CTV	CABLE TELEVISION	NE	NORTHEAST	THK	THICK OR THICKNESS
D	DETAIL	NE	NORTHEAST	TP	TURNING POINT
DI	DUCTILE IRON	NIC	NOT IN CONTRACT	TO	TOP OF
DIA	DIAMETER	NO	NUMBER	TOF	TOP OF FOUNDATION
DIAG	DIAGONAL	NTS	NOT TO SCALE	TOPO	TOPOGRAPHIC
DIM	DIMENSION	NW	NORTHWEST	TOS	TOP OF STEEL
DIP	DUCTILE IRON PIPE	O	O.C. ON CENTER	TOW	TOP OF WALL
DWG	DRAWING	O.D.	OUTERDIAMETER	TYP	TYPICAL
DWL	DOWELS	OPNG	OPENING	TW	TOP OF WALL
E	EAST	OPP	OPPOSITE	TYP.	TYPICAL
EA	EACH	P	POINT OF CURVATURE	U	UNLESS NOTED OTHERWISE
EGL	ENERGY GRADE LINE	PERM	PERMANENT	UNO	UNLESS NOTED OTHERWISE
EJ	EXPANSION JOINT	PL	PLATE	V	VERTICAL
EJW	EAST JORDAN IRON WORKS	P/L	PROPERTY LINE	V	VERTICAL
EL	ELEVATION	POB	POINT OF BEGINNING	VCP	VITREOUS CLAY PIPE
ELEC	ELECTRICAL	POE	POINT OF ENDING	VERT	VERTICAL
ENG	ENGINEERED	PR	PROPOSED	VIF	VERIFY IN FIELD
EX	EXISTING	PSF	POUNDS PER SQUARE FOOT	W	WEST
EXCAV	EXCAVATE(D)	PSI	POUNDS PER SQUARE INCH	W	WEST
EXP	EXPANSION			W/	WITH
F	FINISH FLOOR			WD	WIDE
FF	FINISHED GRADE			WM	WATERMAIN
FG	FIRE HYDRANT			WWF	WELDED WIRE FABRIC
FH	FLOOR			Y	YEAR
FL	FLOOR			YR	YEAR

OWNER:
Livonia Public Schools
15125 Farmington Road
Livonia, Michigan 48154
Contact: Harry Lau
Phone: 734-812-8537

ENGINEER:
NTH Consultants, LTD.
41780 Six Mile Road
Suite 200
Northville, Michigan 48168
Contact: David R. Lutz, P.E.
Phone: 248-662-2750

PROJECT DESCRIPTION:
LIVONIA PUBLIC SCHOOLS 2025 PAVING PROGRAM - BENTLEY FIELD TRACK RESURFACING CONSISTS OF MILL AND OVERLAY ASPHALT PAVEMENT IMPROVEMENT AT THE LIVONIA PUBLIC SCHOOLS BENTLEY FIELD TRACK LOCATION. THE PROJECT SCOPE INCLUDES, BUT IS NOT LIMITED TO:
• 44,000 SQUARE FEET OF ASPHALT MILL AND OVERLAY
• LANE STRIPING

Sheet List
C-100 COVER SHEET
C-101 SITE PLAN



LOCATION MAP
NO SCALE

MICHIGAN
APPROX SCALE 1"= 50 MILES

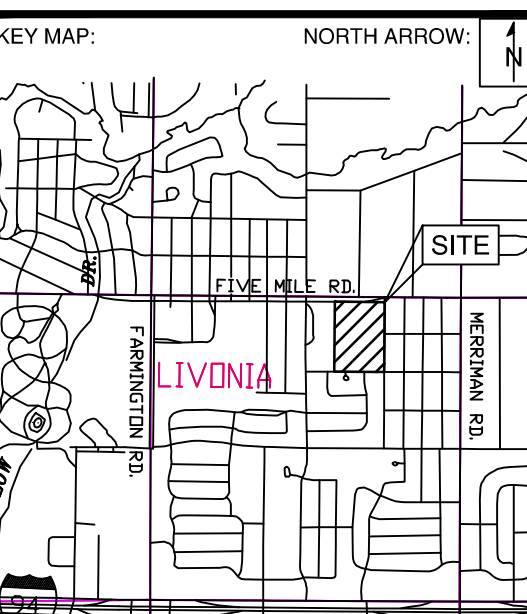


NTH Consultants, Ltd.
Infrastructure Engineering
Environmental Services
Facilities Engineering
www.nthconsultants.com

Northville, MI Lansing, MI
Detroit, MI Grand Rapids, MI
Livonia, MI (Laboratory)



SEAL/STAMP:



REVISION BLOCK	
REV	DATE/DESCRIPTION

SUBMITTAL LOG

DATE	PACKAGE NAME

PROJECT NAME:
LIVONIA PUBLIC SCHOOLS
2025 PAVING PROGRAM
BENTLEY FIELD TRACK
RESURFACING

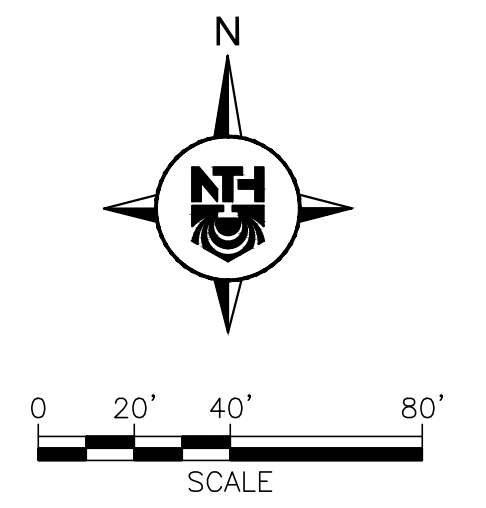
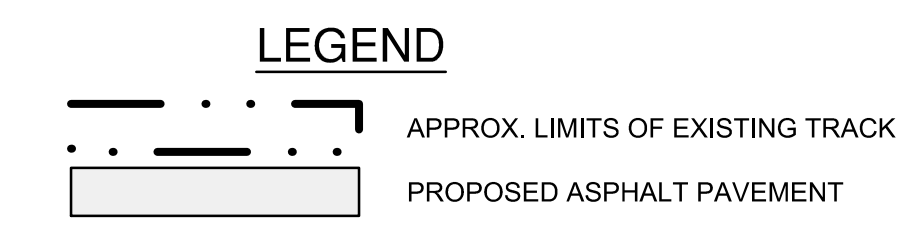
PROJECT LOCATION:
31971 FIVE MILE RD.
LIVONIA, MI 48154

DESIGNED BY:	NTH PROJECT NO.:
KBH	23001951
DRAWN BY:	SHEET SIZE:
KBH	ARCH D (24"x36")
CHECKED BY:	DATE:
DRL	1/30/2025
CAD FILE NAME:	
23001951-03-BENTLY	

SHEET TITLE:
COVER SHEET

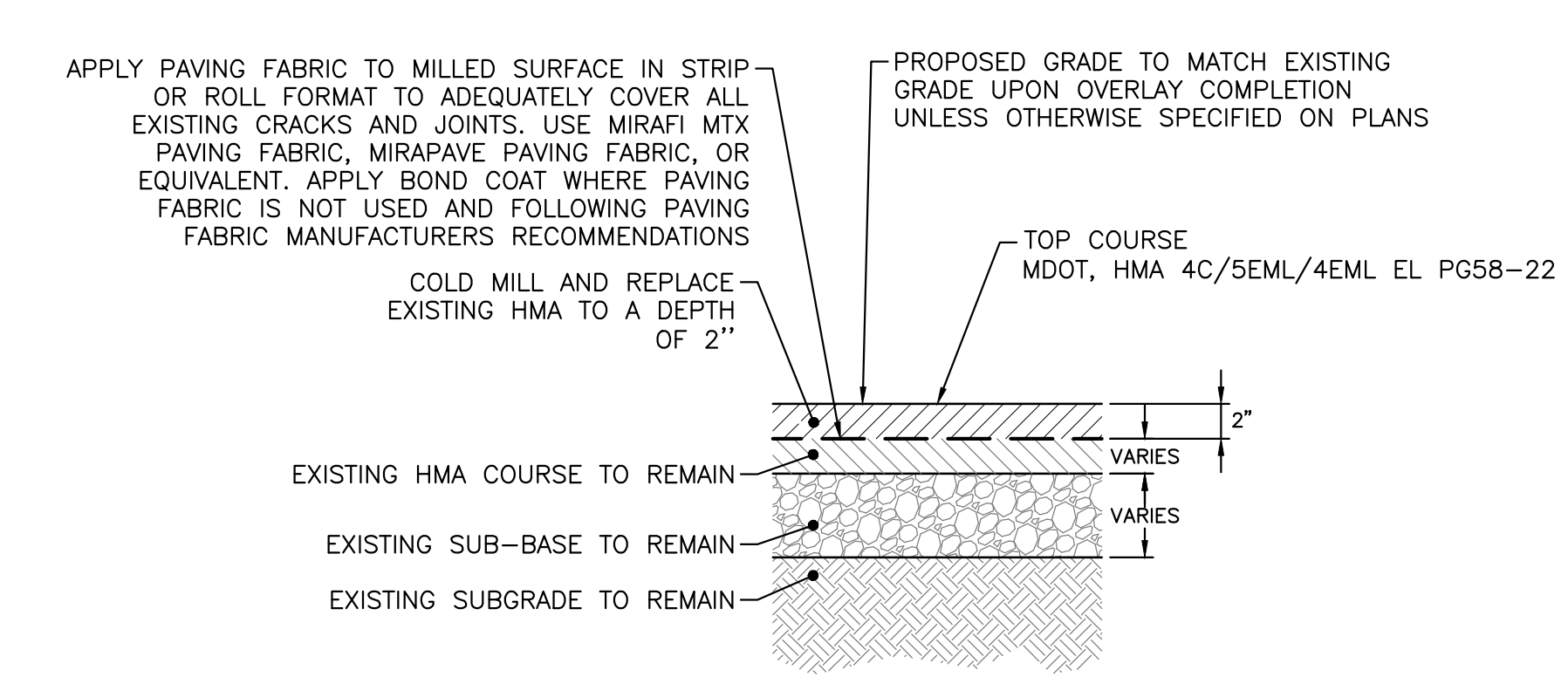
SHEET NUMBER:
C-100

BID ALTERNATE



GENERAL NOTES

1. LOCATION OF UTILITIES OR OTHER STRUCTURES SHOWN ON PLANS ARE TAKEN FROM SURVEY OF RECORD. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY OMISSIONS OR VARIATIONS. THE CONTRACTOR SHALL CONTACT MISS DIG A MINIMUM OF THREE WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION IN THE AREA OF WORK AND SHALL VERIFY ALL UNDERGROUND UTILITIES ON-SITE, PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL PROVIDE NECESSARY TRAFFIC CONTROL AND SIGNAGE TO MAINTAIN ACCESS TO AND WITHIN PROPERTY THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH LOCAL, COUNTY AND STATE REQUIREMENTS OR AS DIRECTED BY ENGINEER. CONTRACTOR SHALL PROVIDE APPROPRIATE BARRICADES AROUND WORK AREAS FOR PEDESTRIAN AND VEHICULAR SAFETY.
3. THE CONTRACTOR SHALL AVOID DAMAGE TO THE EXISTING PAVEMENTS DESIGNATED TO REMAIN. ANY PAVEMENT DAMAGE THAT OCCURS AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL NECESSARY CONSTRUCTION STAKING AND GRADE AND ALIGNMENT CONTROLS.
5. ALL EXISTING SIGNAGE SHALL BE PROTECTED UNLESS OTHERWISE INDICATED ON PLANS.
6. ALL AREAS OF EARTH DISTURBANCE CAUSED BY CONSTRUCTION ACTIVITIES SHALL BE SEEDED AND MULCHED WITH 3" TOPSOIL AND MDOT CLASS A SEED WHERE FINAL EARTH STABILIZATION MEASURES ARE NOT SPECIFICALLY DESIGNATED.



1 ASPHALT MILL AND OVERLAY DETAIL
NOT TO SCALE

PAVEMENT MARKING TABLE			
MARKING	PAINT SPEC	SIZE	COATS/COLOR
LANE STRIPES	SECTION 32 1723.13	4"	2/WHITE

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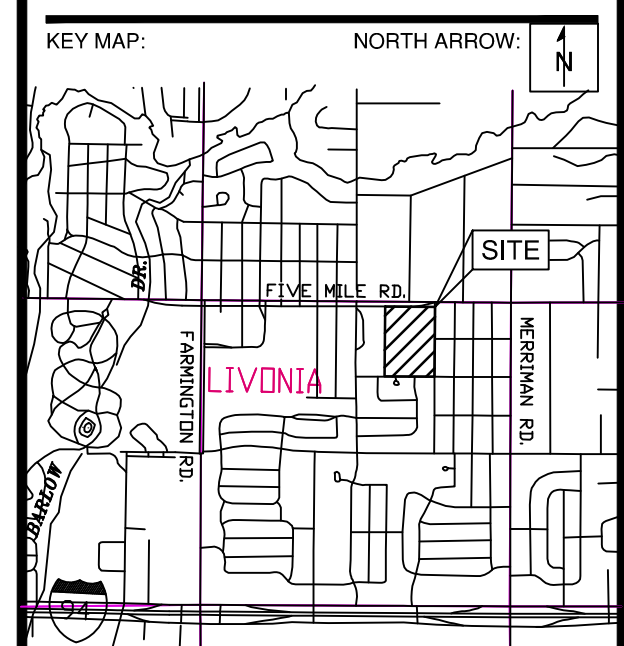
3 WORKING DAYS BEFORE YOU DIG
CALL MISS DIG
1-800-482-7171
For the location of public utility lines.
ALTERNATE NUMBER (811)
COLOR CODES FOR UTILITY LOCATING:

Yellow	Gas	Blue	Water
Orange	Electric	Green	Storm Drain
Red	Fire	Black	Sanitary Sewer
White	Other	Pink	Survey

IF YOU ARE GOING TO WORK NEAR OVERHEAD WIRES - CALL MISS DIG



SEAL/STAMP:



REVISION BLOCK	
REV	DATE/DESCRIPTION

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DATE	PACKAGE NAME

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2025 PAVING PROGRAM
BENTLEY FIELD TRACK
RESURFACING**

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LIVONIA, MI 48154

DESIGNED BY: KBH	NTH PROJECT NO.: 23001951
DRAWN BY: KBH	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: DRL	DATE: 1/30/2025
CAD FILE NAME: 23001951-03-BENTLY	

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
C-101

BID ALTERNATE

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