LIVONIA PUBLIC SCHOOLS CENTRAL OFFICE PAVEMENT PROGRAM PHASE 1 ENGINEERING PLANS 15125 FARMINGTON ROAD

PERMIT TYPE

INFORMATION

PERMITTING

CITY OF LIVONIA SOIL EROSION AND SEDIMENT CONTROL (SESC)

SEND THREE SETS OF PLANS, SIGNED AND SEALED, TO CITY OF LIVONIA DEPARTMENT OF ENGINEERING WITH APPLICATION AND FEE CHECK

NOTE: CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING FEES ASSOCIATED WITH THIS PROJECT

LIST OF ABBREVIATIONS

0	AT	FM	FORCEMAIN	PT	POINT
¢.	CENTERLINE	FNDN	FOUNDATION	POT	POINT OF TANGENCY
0	DEGREE OR DEGREES	FO	FIBER OPTIC	PVC	POLYVINYL CHLORIDE
Ø	DIAMETER	FT	FOOT OR FEET	PVMT	PAVEMENT
	FOOT, FEET	FTG	FOOTING	ΡZ	PNEUMATIC PIEZOMETER
"		FWY	FREEWAY		
щ				<u>R</u>	
#	NUMBER OR POUND	G		R	RADIUS
±	PLUS OR MINUS	GA	GAUGE	RCP	REINFORCED CONCRETE PIPE
		GALV	GALVANIZED	RD	ROAD
А		GMP	GROUND MONITORING POINT	REINF	REINFORCED/
AR	ANCHOR BOLT	GB	GRADE BEAM		REINFORCEMENT
AC	ACRE(S)	GP	GUSSET PLATE	REQD	REQUIRED
		GS	GROUND SURFACE	R.O.W.	RIGHT OF WAY
		GR	GRADE	RR	RAILROAD
		GV	GATE VALVE	RTNG	RETAINING
ASTM	ASERICAN STANDARDS AND TESTING	GV&₩	GATE VALVE AND WELL		
ASTM	AMERICAN STANDARDS AND TESTING MATERIALS	GW	GATE WELL	c	
AVG	AVERAGE			2	SOUTU
		Н		SAN	SANITARY
R		н	HIGH/HORIZONTAL	SAN	
	POTTOM	HGI	HYDRAULIC GRADE LINE	28	SUL BURING
B	BUTIOM	HOR		SC	SHEAR CONNECTOR/
BII	BITUMINUUS	HP			SHEAR CONNECTION
BLDG	BUILDING	нт	HEIGHT	SCH	SCHEDULE
BW			HEIGHT	SE	SOUTHEAST
B.U.	BLOW OFF			SEC	SECTION
BOF	BOTTOM OF FOUNDATION	<u>+</u>		SESC	SOIL EROSION AND SEDIMENT CONTROL
500	BASE PLAIE	I I		SF	SQUARE FOOT
BRG	BEARING			SHT	SHEET
BRKT	BRACKEI	I.E. INV		SIM	SIMILAR
BSMT	BASEMENT	IN	INCH(ES)	SPA	SPACE/SPACING
BW	BOTTOM OF WALL	INV	INVERT	SL	SPLICE LENGTH
				SOG	SLAB ON GRADE
<u>C</u>		<u>]</u>		SQ	SQUARE
CB	CATCH BASIN	JST	JOIST	SS	STAINLESS STEEL
C-C	CENTER TO CENTER	JT	JOINT	SSP	STEEL SHEET PILE
CF	CUBIC FEET			STA	STATION
CFS	CUBIC FEET PER SECOND	L		STD	STANDARD
CI	CAST IRON	_	I FNGTH /I ONG	STIFF	STIFFENER
CIP	CAST-IN-PLACE			STL	STEEL
CJ	CONTROL JOINT	LES	LINEAR FEFT	STM	STORM
CLR	CLEAR			STRUC	STRUCTURAL
CMP	CORRUGATED METAL PIPE			SUP	SUPPORT
CMU	CONCRETE MASONRY UNIT	Ν.4		SW	SOUTHWEST
CNJ	CONSTRUCTION JOINT			s/w	SIDEWALK
CO	CLEAN OUT	m	METER	SWM	STORMWATER MANAGEMENT
COL	COLUMN	MAS	MASUNRY	SY	SOLIARE YARDS
CONC	CONCRETE	MAIL	MAIERIAL	51	SQUARE TARDS
CONT	CONTINUOUS	MAX	MAXIMUM	т	
CONST	CONSTRUCTION	MDOT	MICHIGAN DEPARTMENT OF		TOD
COV	COVER	MECH	MECHANICAL		
CP				IB	TEST BORING
050	COMBINED SEWER OUTFALL			1&B	TOP AND BOTTOM
CTV			MANUEACTURED TREATMENT DEVICE	IC	TOP OF CONCRETE
011	ONDEE TELEVISION	MID	MANUFACTURED TREATMENT DEVICE	TEMP	
D		MIL	METAL	THK	THICK OR THICKNESS
	DETAIL	MIN		ΤΡ Ξ	IURNING POINT
		mm		то	TOP OF
		IM W	MUNITURING WELL	TOF	
		N 1		TOPO	
DIAG		N		TOS	TOP OF STEEL
MIU		N	NORTH	TOW	IOP OF WALL
DIP	DUCTILE IRON PIPE	NB	NORTHBOUND	TYP	TYPICAL
DWG		NE	NORTHEAST	TW	TOP OF WALL
DWL	DUWELS	NIC	NOT IN CONTRACT	TYP.	TYPICAL
_		NO	NUMBER		
<u>E</u>		NTS	NOT TO SCALE	<u>U</u>	
E	EAST	NW	NORTHWEST	UNO	UNLESS NOTED OTHERWISE
EA	EACH				
EGL	ENERGY GRADE LINE	<u>0</u>		V	
EJ	EXPANSION JOINT	O.C. ON	CENTER	\overline{v}	VERTICAL
EJIW	EAST JORDAN IRON WORKS	0.D. 0U ⁻	TERDIAMETER	VCP	VITREOUS CLAY PIPE
EL	ELEVATION	OPNG	OPENING	VERT	VERTICAL
ELEC	ELECTRICAL	OPP	OPPOSITE	VIF	VERIFY IN FIELD
ENG	ENGINEERED				-
EX	EXISTING	Р		\٨/	
EXCAV	EXCAVATE(D)	PC	POINT OF CURVATURF	<u>\\\</u>	WEST
EXP	EXPANSION	PFRM	PERMANENT	¥¥ \\\/	
		PI	PLATE	W/	
		- L D /I		WD	
F				WM	
_ FF	FINISH FLOOR			WWF	WELDED WIRE FABRIC
FG	FINISHED GRADE			.,	
FH	FIRE HYDRANT	רת ספר	NOFUSED	<u>Y</u>	
FI	FLOOR	121 DCI	FUUNDS FER SQUARE FUUI	YR	YEAR
•		F 31	I JUNDS FER SQUARE INCH		

LIVONIA, MI 48150

NTH PROJECT NO. 23001951

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 Northville, Michigan 48168 Contact: David R. Lutz, P.E. Phone: 248-662-2750

PROJECT DESCRIPTION:

MICHIGAN

APPROX SCALE 1"= 50 MILES

LIVONIA PUBLIC SCHOOLS CENTRAL OFFICE PAVEMENT PROGRAM CONSISTS OF PAVEMENT IMPROVEMENT AT THE LIVONIA PUBLIC SCHOOLS CENTRAL OFFICE LOCATION, INCLUDING FULL-DEPTH PAVEMENT REMOVAL AND GRADING, CRACK FILLING, AND RESEALING. THE PROJECT SCOPE INCLUDES, BUT IS NOT LIMITED TO:

- 28,000 SQUARE FEET OF FULL DEPTH REMOVAL & REPLACEMENT (STANDARD DUTY ASPHALT)
- 88,000 SQUARE FEET OF FULL DEPTH REMOVAL & REPLACEMENT(HEAVY DUTY ASPHALT)
- 12,000 SQUARE FEET OF CRACK-FILL AND SEAL COAT
- INSTALLATION OF NEW CONCRETE BOX OUTS AND DRAIN TILES AROUND EXISTING DRAINAGE STRUCTURES, AND REPAIR OF EXISTING CONCRETE BOX OUTS WHERE NECESSARY.
- REPLACE 5 BOLLARD SLEEVES TO EXISTING BOLLARD POSTS INSTALLATION OF 1 BOLLARD POST IN CAST-IN-PLACE CONCRETE
- FOUNDATION.
- PROVIDE 2 STOP SIGNS WITH PEDESTAL BASES AND ADDITIONAL SIGNAGE FOR 5 ADA PARKING SPACES.
- EXCAVATION AND REPLACEMENT OF A MAXIMUM DEPTH OF 18-INCHES BELOW THE BOTTOM OF THE PAVEMENT PROFILE FOR A MAXIMUM OF 11,600 SQUARE-FEET OF THE FULL-DEPTH ASPHALT REPLACEMENT AREA.

Sheet List	
C-100	COVER SHEET
C-101	TOPOGRAPHIC SURVEY
C-102	SOIL EROSION & SEDIMENTA
C-103	SESC STANDARD DETAILS
C-104	DEMOLITION PLAN
C-105	PROPOSED SITE AND GRADIN
C-501	CIVIL DETAILS (1 OF 2)
C-502	CIVIL DETAILS (2 OF 2)

5 Mile Rd

WAYNE COUNTY NO SCALE

<u>NOTES</u>

TION CONTROL PLAN

NG PLAN

1. TOPOGRAPHIC SURVEY WAS PERFORMED BY BY KEM-TEC & ASSOCIATES ON FEBRUARY 26, 2024.

2. 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.

3. FULL-DEPTH REMOVAL IS DEFINED AS REMOVING 100 PERCENT OF THE BITUMINOUS CONCRETE AND BASE WHERE NECESSARY TO ACHIEVE THE REQUIRED DESIGN PROFILE, AND PROOF ROLLING THE EXISTING AGGREGATE BASE OR SUBBASE. IF THE AGGREGATE BASE IS SOUND, INSTALL NEW BITUMINOUS CONCRETE PROFILE AS SPECIFIED (HEAVY-DUTY OR STANDARD-DUTY PROFILE). IF AGGREGATE BASE YIELDS UNDER PROOF ROLLING LOAD, AT THE DIRECTION OF THE OWNERS ENGINEER, REMOVE AGGREGATE BASE AND EXPOSE SUBGRADE SOILS. PROOF ROLL; IF THEY YIELD UNDER LOAD, REMOVE UP TO 18-INCHES OF SUBGRADE AND BACKFILL WITH COMPACTED STONE IN LIFTS NO GREATER THAN 6-INCHES. INSTALL NEW PAVEMENT OVER THE STONE (AGGREGATE BASE AND BITUMINOUS CONCRETE SECTION) AT DIRECTION OF THIRD PARTY TESTING FIRM.

4. 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.

5. CONTRACTOR TO INSPECT ALL MANHOLE STRUCTURES DURING CONSTRUCTION AND INFORM THE OWNER OF ANY STRUCTURES IN POOR CONDITION.

6. CONTRACTOR SHALL NOTIFY THE CITY OF LIVONIA'S ENGINEERING DEPARTMENT 48 HOURS PRIOR TO ANY WORK IN THE RIGHT-OF-WAY. INSPECTION AND APPROVAL IS REQUIRED AFTER SETTLING FORMS, BUT PRIOR TO POURING CONCRETE, WITHIN THE CITY'S RIGHT-OF-WAY.



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Northville, MI Lansing, MI Detroit, MI Grand Rapids, MI Livonia, MI (Laboratory)	-
3 WORKING DAYS BEFORE YOU DIG CALL MISS DIG • 1-800-482-7171 For free location of public utility lines. ALTERNATE NUMBER (811) COLOR CODES FOR UTILITY LOCATING: Yellow OIL & GAS Orange PHONE & CATV Red ELECTRIC Brown SEWER Pink SURVEYING IF YOU ARE GOING TO WORK NEAR OVERHEAD WIRES CALL MISS DIG	
Purpose-Passion-Pride LIVONIA PUBLIC SCHOOLS	
SEAL/STAMP:	
KEY MAP: NORTH ARROW: Image: Construction of the state	
SUBMITTAL LOG DATE PACKAGE NAME	-
PROJECT NAME: LPS CENTRAL OFFICE PAVEMENT - PHASE 1	
PROJECT LOCATION: 15125 FARMINGTON ROAD LIVONIA, MICHIGAN 48150	
DESIGNED BY:NTH PROJECT NO.:SKG23001951DRAWN BY:SHEET SIZE:SKGARCH D (24"x36")CHECKED BY:DATE:SLG4/12/2024CAD FILE NAME:	-
SHEET TITLE: COVER SHEET	_

BID

C-100

SHEET NUMBER:







SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

CONTRACTOR SHALL ENSURE THAT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES PROTECT AGAINST LOSS OF SOIL BY THE ACTION OF WATER, ICE, GRAVITY AND WIND.

- SUMMARY OF BASIC PRINCIPLES 1. KEEP DISTURBED AREA AS SMALL AS POSSIBLE.
- 2. STABILIZE AND/OR PROTECT DISTURBED AREAS AS SOON AS POSSIBLE.
- 3. KEEP STORM WATER RUNOFF VELOCITIES LOW.
- 4. RETAIN SEDIMENT WITHIN IMMEDIATE CONSTRUCTION AREA.

THE PURPOSE OF THIS PLAN IS TO SPECIFY METHODS FOR TEMPORARY EROSION CONTROL DURING CONSTRUCTION. IT IS INTENDED THAT MEASURES CALLED FOR IN THE SPECIFICATIONS AND SHOWN ON THESE PLANS BE STRICTLY ADHERED TO. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT CONSTRUCTION PROCEDURES UNDERTAKEN ARE IN CONFORMANCE WITH PART 91 OF ACT 451 OF 1994 THE STATE OF MICHIGAN'S SOIL EROSION AND SEDIMENTATION CONTROL ACT.

ALL SOIL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE REGULARLY MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT. COLLECTED SILT AND SEDIMENTATION SHALL BE REMOVED PERIODICALLY TO MAINTAIN THE EFFECTIVENESS OF THE SILT TRAPS OR SEDIMENTATION CONTROL DEVICES. WHERE REQUIRED, THE CONTRACTOR SHALL REMOVE AND REPLACE FILTER MATERIALS WHICH HAVE BECOME INEFFECTIVE DUE TO CONTAMINATION OR PHYSICAL DETERIORATION.

ALL TEMPORARY EROSION CONTROL FACILITIES SHALL BE REMOVED BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION UNLESS ORDERED BY THE ENGINEER TO BE LEFT IN PLACE. CARE SHALL BE TAKEN DURING REMOVAL TO MINIMIZE SILTATION IN NEARBY DRAINAGE COURSES.

SURFACE DISRUPTION IN ADVANCE OF CONSTRUCTION INCLUDING CLEARING, GRADING OR SIGNIFICANT SOD REMOVAL SHALL BE PROCEEDED BY INSTALLATION OF SOIL EROSION AND SEDIMENTATION CONTROL DEVICES AS FOLLOWS, UNLESS PERMISSION IS OTHERWISE OBTAINED FROM THE GOVERNING AGENCY.

- A. WET WEATHER SEASON (MARCH, APRIL, MAY) 5 DAYS PRIOR TO BEGINNING ANY EARTH CHANGE ACTIVITY.
- B. DRY WEATHER SEASON (JUNE, JULY, AUGUST, SEPTEMBER, OCTOBER, NOVEMBER) 10 DAYS PRIOR TO BEGINNING ANY EARTH CHANGE ACTIVITY.
- C. COLD WEATHER SEASON (DECEMBER, JANUARY, FEBRUARY) 15 DAYS PRIOR TO BEGINNING ANY EARTH CHANGE ACTIVITY.

MAINTENANCE NOTES

THE CONTRACTOR SHALL INSPECT SOIL EROSION AND SEDIMENTATION CONTROL DEVICES WEEKLY AND WITHIN 24 HOURS OF A SIGNIFICANT RAIN EVENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SOIL EROSION AND SEDIMENTATION CONTROL DEVICES.

MAINTENANCE INCLUDES ALL WORK NECESSARY FOR PROPER OPERATION OF THE DEVICES. DEVICES WHICH CAN NOT BE REPAIRED SHALL BE REPLACED. MAINTENANCE OF THE DEVICES SHALL BE PERFORMED WITHIN 24 HOURS OF INSPECTION.

SEDIMENT SHALL BE REMOVED AS NECESSARY TO MAINTAIN THE EFFECTIVENESS OF SOIL EROSION AND SEDIMENTATION CONTROL DEVICES. SEDIMENT DEPOSITED ALONG SILT FENCE SHALL BE REMOVED WHEN IT REACHES 1/3 TO 1/2 THE HEIGHT OF THE FENCE AND PRIOR TO REMOVAL AT THE END OF THE PROJECT OR TIME OF FINAL REMOVAL. TURF ESTABLISHMENT MEASURES SHALL BE MAINTAINED AS WOULD ANY OTHER DEVICES PRIOR TO ESTABLISHMENT OF PERMANENT TURF. ALL MUD, DIRT AND DEBRIS TRACKED ONTO EXISTING ROADS FROM THIS SITE SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.



- 2. DEMOLISH THE SITE PER THE PLANS. ESTIMATED DATE: 06/2024 THRU 09/2024
- 3. CONSTRUCT SITE FEATURES PER THE PLANS ESTIMATED DATE: 06/2024 to 09/2024
- 4. STABILIZE DISTURBED AREAS AS NOTED ON THE PLANS WITHIN 5 DAYS OF FINAL GRADING. ESTIMATED DATE: 09/2024
- 5. RESTORE ALL OFF-SITE AREAS TO PRE-CONSTRUCTION CONDITION FOLLOWING SITE CONSTRUCTION.
- 6. CLEAN PAVEMENT AND SEWERS AS NECESSARY (SCRAPE DAILY, SWEEP MIN. 1 PER WEEK). A CERTIFIED STORM WATER OPERATOR SHALL INSPECT ALL SESC MEASURES ON A WEEKLY BASIS AND AFTER SIGNIFICANT RAIN EVENTS TO ENSURE THE SESC MEASURES ARE ADEQUATE.
- 7. REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS FOLLOWING SITE CONSTRUCTION, FINAL STABILIZATION OF WORK, AND FINAL INSPECTION. ESTIMATED DATE: 09/2024

TEMPORARY FACILITIES

THE CONTRACTOR SHALL CONSTRUCT THIS PROJECT IN COMPLIANCE WITH PART 91 OF ACT NO. 451 OF 1994, OF THE MICHIGAN COMPILED LAWS ENTITLED "SOIL EROSION AND SEDIMENTATION CONTROL" UNDER THE CONTROL OF THE LOCAL PERMIT AGENCY CHARGED WITH ADMINISTERING THE PROVISIONS OF THIS ACT. THE CONTRACTOR SHALL FOLLOW THE PROCEDURES DELINEATED BELOW AND IN THE PROJECT SPECIFICATIONS AND CONSTRUCT AND MAINTAIN THE FACILITIES SHOWN ON THE DRAWINGS TO CONTROL WATER AND WIND EROSION DURING CONSTRUCTION OF THIS PROJECT.

ALL DISTURBED SURFACE AREA (INCLUDING UTILITY TRENCHES) SHALL BE TEMPORARILY GRADED AND/OR DITCHED TO DIRECT ALL WATER RUNOFF FROM SUCH AREAS TO SEDIMENTATION CONTROL DEVICES WHICH WILL PREVENT WATER CARRYING ERODED SOIL FROM ENTERING A WATERCOURSE, SEWER, ADJACENT LANDS, AND ROADWAYS. SUCH SEDIMENTATION CONTROL DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROTECTIVE DITCHES, SEDIMENT TRAPS, SEDIMENT FILTERS, DITCH TRAPS, PIPE BARRIERS, AND FILTERS AS DETAILED AND REQUIRED AND WHERE INDICATED ON THE DRAWINGS. AFTER THE PROJECT WORK HAS BEEN COMPLETED, INSPECTED, AND APPROVED, THE CONTRACTOR SHALL REMOVE ALL SEDIMENTATION CONTROL DEVICES, MATERIAL, AND THEIR COLLECTED SILT AND DEBRIS AND RESTORE THE AREA IN ACCORDANCE WITH THE DRAWINGS.

TEMPORARY AGGREGATE SURFACING SHALL BE PLACED IN ROADWAY AREAS IMMEDIATELY AFTER THE BACKFILLING OPERATION HAS BEEN COMPLETED. POSITIVE DUST CONTROL MEASURES SHALL BE TAKEN AT ALL TIMES.

PERMANENT STABILIZATION SHALL BE COMPLETED WITHIN 5 DAYS OF FINAL EARTH CHANGE. FINAL CLEANUP AND RESTORATION WILL CONSIST OF FINAL GRADING, TOPSOILING, SEEDING AND MULCHING AND/OR SODDING OF ALL DISTURBED AREAS OF THE PROJECT.

IF SEASONAL CONDITIONS PREVENT FINAL CLEANING AND RESTORATION, THE CONTRACTOR SHALL PROCEED WITH TEMPORARY STABILIZATION OF THE DISTURBED AREA. TEMPORARY STABILIZATION SHALL CONSIST OF ROUGH GRADING THE DISTURBED AREA IN ACCORDANCE WITH THESE SPECIFICATIONS AND INSTALLING THE SPECIFIED SOIL EROSION AND SEDIMENTATION CONTROL DEVICES. TEMPORARY STABILIZATION MATERIALS SHALL BE REMOVED AND DISPOSED OF AND FINAL CLEANUP AND RESTORATION SHALL BE COMPLETED NOT LATER THAN 5 DAYS AFTER SEASONAL CONDITIONS ALLOW PERFORMANCE OF THE REQUIRED WORK.

BID

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S WORKING DAYS BEFORE YOU DIG CALL MISS DIG (*) 1-800-482-7171 For free location of public utility lines. ALTERNATE NUMBER (811) COLOR CODES FOR UTILITY LOCATING: Yellow Orange PHONE & CATV Red ELECTRIC For Green STORM DRAIN Brown SEWER Phone SURVEY Brown SEWER Phone SURVEY Brown SEWER Phone SURVEY Brown SEWER FY OU ARE GOING TO WORK NEAR OVERHEAD WIRES CALL MISS DIG					
Purpose-Passion-Pride LIVONIA PUBLIC SCHOOLS					
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KEY MAP: NORTH ARROW:					
REVISION BLOCK					
SUBMITTAL LOG					
DATE PACKAGE NAME					
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DESIGNED BY: NTH PROJECT NO.:					
SKG23001951DRAWN BY:SHEET SIZE:					
SKGARCH D (24"x36")CHECKED BY:DATE:					
SLG 4/12/2024					
SHEET TITLE: SOIL EROSION &					
SEDIMENTATION					

C-102

CONTROL PLAN

SHEET NUMBER:



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		Infrastructure Engineering
the second second second		Environmental Services
	EXISTING CONCRETE PAVEMENT	www.nthconsultants.com
	EXISTING LANDSCAPING/LAWN AREA 0 20' 40' 80'	Northville, MI Lansing, MI
00	EXISTING FENCE SCALE	Detroit, MI Grand Rapids, MI Livonia, MI (Laboratory)
<u> </u>	EXISTING GUARDRAIL	3 WORKING DAYS
•	EXISTING BOLLARD POST	BEFORE YOU DIG
OHE	EXISTING ELECTRICAL OVERHEAD	1-800-482-7171
— E — E —	EXISTING ELECTRICAL UNDERGROUND	ALTERNATE NUMBER (811) COLOR CODES FOR UTILITY LOCATING:
-\$\$-	EXISTING LIGHT POLE	Tellow UL & GRS Blue WALER Orange PHONE & CATV Green STORM DRAIN Red ELECTRIC Brown SEWER Pink SURVEYING
G	EXISTING GAS UNDERGROUND	IF YOU ARE GOING TO WORK NEAR OVERHEAD WIRES CALL MISS DIG
	EXISTING SANITARY SEWER	
S	EXISTING SANITARY STRUCTURE	
\oplus	EXISTING STORM CATCH BASIN	Purpose-Passion-Pride
\bigcirc	EXISTING STORM MANHOLE	LIVONIA PUBLIC SCHOOLS
	EXISTING STORM SEWER	
T	EXISTING TELEPHONE UNDERGROUND	SEAL/STAMP:
	EXISTING WATER MAIN	
A	EXISTING HYDRANT	
M	EXISTING UNKNOWN UTILITY MANHOLE	
	EXISTING CONCRETE TO BE REMOVED	
+ + +	PROPOSED CRACK-FILL, SEAL REPAIR	
	PROPOSED FULL DEPTH ASPHALT REMOVAL	
	SAWCUT	
	EXISTING SIGN TO BE REMOVED	
•	EXISTING POST TO BE REMOVED	KEY MAP: NORTH ARROW:
0	EXISTING BOLLARD SLEEVE TO BE REMOVED AND PREPLACED	
		5 MILE RID. SITE
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ONS SUITABLE FOR PROPE	ER DISPOSAL IN ACCORDANCE WITH ALL APPLICABLE ENVIRONMENTAL	REVISION BLOCK
ERABLE PRIOR TO CONSTR IAVE BEEN CLEANED AND	RUCTION AND AGAIN AFTER CONSTRUCTION IS COMPLETE. CONTRACTOR ARE FREE FLOWING.	
ITH APPLICABLE ENVIRONI	MENTAL REGULATIONS.	
TIMES.		
		SUBMITTAL LOG

LPS CENTRAL OFFICE **PAVEMENT - PHASE 1**

PROJECT NAME:

PROJECT LOCATION: 15125 FARMINGTON ROAD LIVONIA, MICHIGAN 48150

DESIGNED BY:	NTH PROJECT NO .:
SKG	23001951
DRAWN BY:	SHEET SIZE:
SKG	ARCH D (24"x36")
CHECKED BY:	DATE:
SLG	4/12/2024
CAD FILE NAME:	

SHEET TITLE: DEMOLITION PLAN

SHEET NUMBER:



BID



MARKING TABLE	
SIZE	COATS/COLOR
4''	2/YELLOW
4''	2/BLUE

24"	2/WHITE
12" WIDTH X 18" TALL, 4" SPACING BETWEEN NUMBERS	2/YELLOW
12" WIDTH X 18" TALL	2/YELLOW

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Environmental Services Facilities Engineering www.nthconsultants.com				
Northville, MI Lansing, MI Detroit, MI Grand Rapids, MI Livonia, MI (Laboratory)				
BEFORE YOU DIG				
CALL MISS DIG CALL MISS DIG CALL MISS DIG COLOR CODES FOR UTILITY LOATING: Yellow OIL & GAS Blue WATER Orange PHONE & CATV Green STORM DRAIN Red ELECTRIC Brown SURVEYING IF YOU ARE GOING TO WORK NEAR OVERHEAD WIRES CALL MISS DIG				
LIVONIA PUBLIC SCHOOLS				
SEAL/STAMP:				
KEY MAP: NORTH ARROW: N SAME RB. SAME RB. SITE LIVUNIA				
SUBMITTAL LOG DATE PACKAGE NAME				
PROJECT NAME: LPS CENTRAL OFFICE PAVEMENT - PHASE 1				
PROJECT LOCATION: 15125 FARMINGTON ROAD LIVONIA, MICHIGAN 48150				
DESIGNED BY:NTH PROJECT NO.:SKG23001951DRAWN BY:SHEET SIZE:SKGARCH D (24"x36")				
CHECKED BY:DATE:SLG4/12/2024CAD FILE NAME:				
SHEET TITLE: PROPOSED SITE AND GRADING PLAN				



R1	-1	
ST	ЭP	

*Reduce spacing 40%

C	А	В	С	D	Е	F
	18	.375	6	6 C	3	7.75
	24	.625	8	8 C	4	10
	30	.75	10	10 C	5	12.5
	36	.875	12	12 C	6	15
	48	1.25	16	16 C	8	20

COLORS: LEGEND — WHITE (RETROREFLECTIVE) BACKGROUND – RED (RETROREFLECTIVE)

> 1-1 16A STOP SIGN NOT TO SCALE

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PDST PLUG FURNINSHED AS STANDARD. ALUMINUM CAP OPTIONAL. 1.75" SQUARE GALVANIZED PDST 2" SQUARE GALVANIZED SLEEVE 5/16" CARRIAGE 1'-6" 2" SQUARE BULT TOP VIEW SIDE VIEW	<text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text>
PLSTB PLSTB Description State State	
	SUBMITTAL LOG DATE PACKAGE NAME PROJECT NAME: LPS CENTRAL OFFICE PAVEMENT - PHASE 1
	PROJECT LOCATION: 15125 FARMINGTON ROAD LIVONIA, MICHIGAN 48150 DESIGNED BY: NTH PROJECT NO.: SKG 23001951 DRAWN BY: SHEET SIZE: SKG ARCH D (24"x36") CHECKED BY: DATE: SLG 4/12/2024 CAD FILE NAME: SHEET TITLE: CIVIL DETAILS (2 OF 2)
BID	SHEET NUMBER: C-502