

LIVONIA PUBLIC SCHOOLS FORMER MARSHALL ELEMENTARY SCHOOL DEMOLITION

ENGINEERING CONSTRUCTION PLANS ISSUED FOR BID

PERMITTING	
PERMIT TYPE	INFORMATION
CITY OF LIVONIA SOIL EROSION AND SEDIMENT CONTROL (SESC)	SEND THREE SETS OF PLANS TO CITY OF LIVONIA ENGINEERING DIVISION-PERMITS OFFICE ATTENTION: DIVISION PERMIT ENGINEER

LEGAL DESCRIPTION:

09°11' A F2A1 PART OF SE 1/4 OF SEC 9 T1S R9E BEG N0°DEG 16M 03S E 60FT FROM S 1/4 COR OF SEC 9 TH N0°DEG 16M 03S E 2523.35FT TH S89°DEG 13M 35S E 1312.37FT TH S0°DEG 00M 25S W 1124.50FT TH S72°DEG 21M 05S W 182.03FT TH S57°DEG 57M 21S W 140.98FT TH S25°DEG 24M 09S W 202.81FT TH S11°DEG 51M 28S W 143.56FT TH S16°DEG 29M 04S E 102.20FT TH S34°DEG 05M 57S E 349.61FT TH S27°DEG 45M 31S E 395.82FT TH S0°DEG 00M 25S W 190FT TH N89°DEG 56M 50S W 1322.81FT POB 69.38 AC

LIST OF ABBREVIATIONS

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

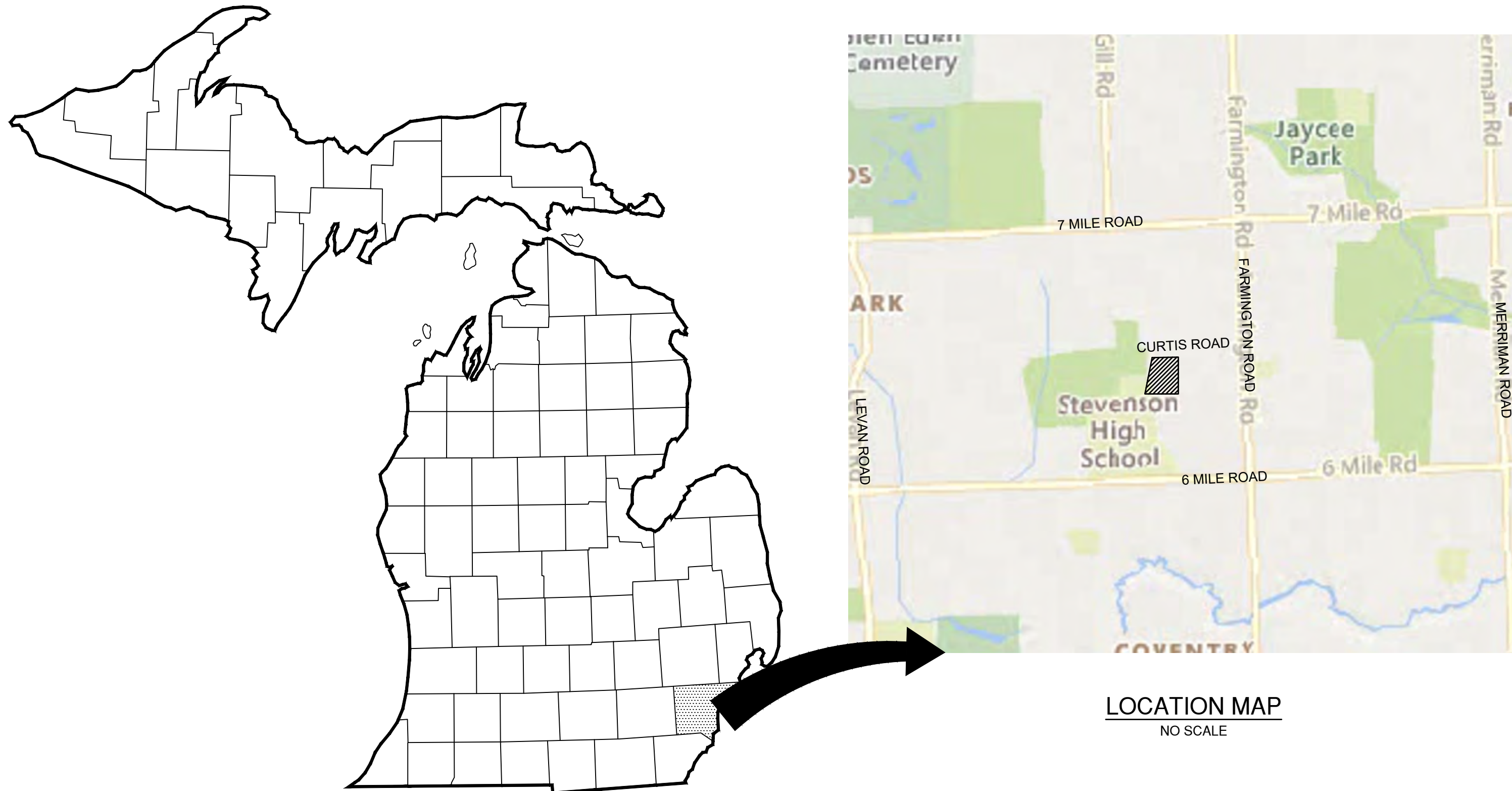
OWNER:
Livonia Public Schools (LPS)
15125 Farmington Road
Livonia, MI 48154
Contact: Harry Lau, Administrator of Facilities and Operations
Phone: 734.812.8597
hlau@livoniapublicschools.org

ENGINEER:
NTH Consultants, LTD. (NTH)
41780 Six Mile Road, Suite 200
Northville, MI 48168
Contact: Michelle Thompson, P.E.
Phone: 906.281.6593
mthompson@nthconsultants.com

PROJECT DESCRIPTION:
LIVONIA PUBLIC SCHOOLS FORMER MARSHALL ELEMENTARY SCHOOL DEMOLITION CONSISTS OF
• REMOVAL OF EXISTING BUILDING
• REMOVAL OF EXISTING PARKING AREAS, ENTRANCE APPROACHES, LANDSCAPING, CONCRETE SIDEWALK AND CURBS
• SAWCUT AND REMOVE A PORTION OF THE WEST PARKING LOT TO REDUCE AREA TO A 24'-0" WIDE ACCESS DRIVE TO MAINTAIN CONNECTION WITH GRAVEL ROAD TO THE SOUTH
• REMOVAL AND ABANDONING OF ALL UTILITY CONNECTIONS TO THE BUILDING AND SITE
• LANDSCAPE RESTORATION IN ALL DISTURBED AREAS
• CURB RESTORATION ALONG CURTIS AVENUE

EXISTING ZONING:
P-L - PUBLIC LANDS
(SEE LIVONIA ZONING ORDINANCE No. 3203)

SETBACKS:
EXEMPT



LOCATION MAP
NO SCALE

MICHIGAN
APPROX SCALE 1"= 50 MILES

Sheet List Table	
C-100	COVER SHEET
C-101	TOPOGRAPHIC SURVEY (BY OTHERS)
C-102	SITE DEMOLITION PLAN
C-103	UTILITY DEMOLITION PLAN
C-104	SOIL EROSION AND SEDIMENTATION CONTROL PLAN
C-105	PROPOSED GRADING AND SITE RESTORATION PLAN
C-501	CITY OF LIVONIA SESC DETAILS
C-502	CITY OF LIVONIA STANDARD DETAILS



NTH Consultants, Ltd.
Infrastructure Engineering
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
1-800-482-7171
For the location of public utility lines.
ALTERNATE NUMBER (811)
YOUR CODES FOR UTILITY LOCATING:
Yellow: Gas & Gas
Orange: Electric
Red: Water
Blue: Sewer
Green: Storm Drain
Purple: Other
If you are going to work near overhead wires - call Miss Dig.

SEAL/STAMP:

KEY MAP:



REVISION BLOCK	
REV	DATE/DESCRIPTION

SUBMITTAL LOG	
DATE	PACKAGE NAME

PROJECT NAME:
LIVONIA PUBLIC SCHOOLS
FORMER MARSHALL
ELEMENTARY SCHOOL
DEMOLITION

PROJECT LOCATION:
33901 CURTIS ROAD
LIVONIA, MICHIGAN 48152

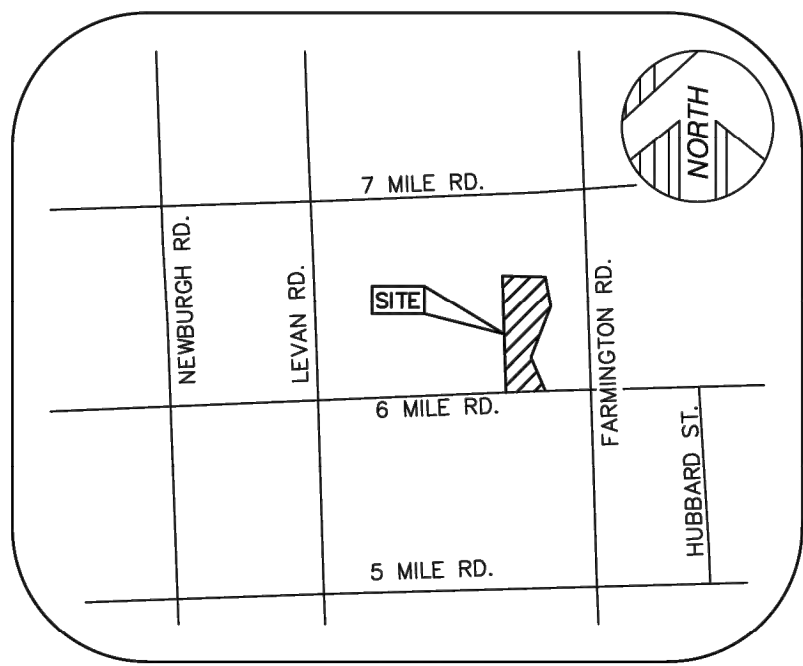
DESIGNED BY: SKG	NTH PROJECT NO.: 25002747
DRAWN BY: SKG	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: MJT	DATE: 1/8/2026
CAD FILE NAME: 25002747-COV	

SHEET TITLE:
COVER SHEET

SHEET NUMBER:

C-100

BID



VICINITY MAP
(NOT TO SCALE)

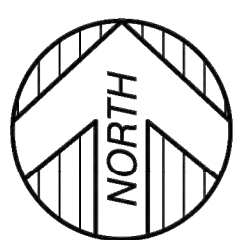
BENCHMARK

BENCHMARK #1
1/4" ARROW ON HYDRANT, N. SIDE OF SITE.
ELEVATION = 687.33' (NAVD 88)

BENCHMARK #2
NAIL IN S. FACE OF LIGHT POLE, N. SIDE OF SITE.
ELEVATION = 684.06' (NAVD 88)

SURVEYOR'S NOTE

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES OTHER THAN THE STRUCTURE INVENTORY SHOWN HEREON.



GRAPHIC SCALE



FLOOD NOTE

SUBJECT PARCEL LIES WITHIN:
SPECIAL FLOOD HAZARD AREA (ZONE AE): BASE FLOOD ELEVATIONS DETERMINED.
FLOODWAY AREAS IN ZONE AE: THE FLOODWAY IS THE CHANNEL OF A STREAM PLUS ANY ADJACENT FLOODPLAIN AREAS THAT MUST BE KEPT FREE OF ENCROACHMENT SO THAT THE 1% ANNUAL CHANCE FLOOD CAN BE CARRIED WITHOUT SUBSTANTIAL INCREASES IN FLOOD HEIGHTS.
OTHER FLOOD AREA (ZONE X): AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.
OTHER AREA (ZONE X): AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.
AS SHOWN ON FLOOD INSURANCE RATE MAP: MAP NUMBER 26163C0042E, DATED 2/2/2012, PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

LEGEND

0.00	GROUND ELEVATION	M	MAIL BOX
1	UTILITY POLE	S	SANITARY LINE
2	GAS METER	W	WATER LINE
3	LIGHT POLE WITH STREET LAMP	E	ELECTRIC LINE
4	TELEPHONE RISER	CON	CONCRETE
5	SANITARY MANHOLE	BLD	BUILDING AREA
6	ROUND CATCH BASIN	ASP	ASPHALT
7	SQUARE CATCH BASIN		
8	STORM DRAIN MANHOLE		
9	FIRE HYDRANT		
10	WATER GATE MANHOLE		
11	WATER VALVE		
12	FLAGPOLE		
13	FENCE POST		
14	LIGHTPOST/LAMP POST		
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
75			
76			
77			
78			
79			
80			
81			
82			
83			
84			
85			
86			
87			
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99			
100			

PROPERTY DESCRIPTION

LAND SITUATED IN THE CITY OF LIVONIA, COUNTY OF WAYNE, STATE OF MICHIGAN DESCRIBED AS:
A PARCEL OF LAND OF PART OF THE WEST 1/2 OF SOUTHEAST 1/4 OF SECTION 9, TOWN 1 SOUTH, RANGE 9 EAST, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A POINT IN THE NORTH LINE OF THE WEST 1/2 OF THE SOUTHEAST 1/4 OF SECTION 9, SAID POINT BEING MEASURED SOUTH 89 DEGREES 50 MINUTES 45 SECONDS WEST, ALONG THE SOUTH LINE OF SECTION 9, A DISTANCE OF 1323.08 FEET AND NORTH 0 DEGREES 10 MINUTES 29 SECONDS WEST, A DISTANCE OF 1297.40 FEET FROM THE SOUTHEAST CORNER OF SECTION 9, TOWN 1, SOUTH, RANGE 9 EAST TO THE POINT OF BEGINNING OF PROPERTY HEREIN DESCRIBED; THENCE NORTH 0 DEGREES 10 MINUTES 29 SECONDS WEST A DISTANCE OF 1311.84 FEET TO A POINT IN THE EAST AND WEST 1/4 LINE OF SECTION 9, SAID POINT ALSO BEING THE SOUTHWEST CORNER OF SEVEN MILE SUPER HIGHWAY SUBDIVISION, AS RECORDED IN LIBER 53, PAGE 50 OF PLATS, WAYNE COUNTY RECORDS; THENCE NORTH 89 DEGREES 28 MINUTES WEST AND MEASURED ALONG THE EAST AND WEST 1/4 LINE OF SECTION 9, A DISTANCE OF 1312.42 FEET TO THE CENTER POST OF SAID SECTION 9; THENCE SOUTH 0 DEGREES 03 MINUTES 37 SECONDS WEST AND MEASURED ALONG THE NORTH AND SOUTH 1/4 LINE OF SECTION 9, A DISTANCE OF 1320.0 FEET (SAID POINT BEING NORTH 0 DEGREES 03 MINUTES 37 SECONDS EAST, A DISTANCE OF 1305.77 FEET FROM THE SOUTH 1/4 CORNER OF SAID SECTION 9); THENCE SOUTH 89 DEGREES 47 MINUTES 26 SECONDS EAST, A DISTANCE OF 1317.75 FEET TO THE POINT OF BEGINNING.
AND
A PARCEL OF LAND OF PART OF THE WEST 1/2 OF SOUTHEAST 1/4 OF SECTION 9, TOWN 1 SOUTH, RANGE 9 EAST, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A POINT IN THE NORTH LINE OF SIX MILE ROAD (120 FEET WIDE) SAID POINT BEING MEASURED SOUTH 89 DEGREES 50 MINUTES 45 SECONDS WEST, ALONG THE SOUTH LINE OF SECTION 9, A DISTANCE OF 1323.08 FEET AND NORTH 0 DEGREES 10 MINUTES 29 SECONDS WEST, A DISTANCE OF 60.0 FEET FROM THE SOUTHEAST CORNER OF SECTION 9, TOWN 1, SOUTH, RANGE 9 EAST; THENCE SOUTH 89 DEGREES 50 MINUTES 45 SECONDS WEST MEASURED ALONG THE NORTH LINE OF SIX MILE ROAD (120 FEET WIDE) A DISTANCE OF 1322.84 FEET TO A POINT IN THE NORTH AND SOUTH 1/4 LINE OF SECTION 9; THENCE NORTH 0 DEGREES 03 MINUTES 37 SECONDS EAST MEASURED ALONG THE NORTH AND SOUTH 1/4 LINE OF SECTION 9, A DISTANCE OF 1245.77 FEET TO A POINT, SAID POINT BEING MEASURED SOUTH 0 DEGREES 03 MINUTES 37 SECONDS WEST, A DISTANCE OF 1320.0 FEET FROM THE CENTER POST OF SECTION 9; THENCE SOUTH 89 DEGREES 47 MINUTES 26 SECONDS EAST, A DISTANCE OF 1317.75 FEET; THENCE SOUTH 0 DEGREES 10 MINUTES 29 SECONDS EAST 1237.40 FEET TO THE POINT OF BEGINNING.

EXCEPT: A PARCEL OF LAND LOCATED IN THE W 1/2 OF THE S.E. 1/4 OF SECTION 9, T1S, R9E, DESCRIBED AS: COMMENCING AT THE S.E. CORNER, SECTION 9, T1S, R9E, PROCEEDING THENCE ALONG THE SOUTH LINE OF SAID SECTION 9, NORTH 89 DEGREES 56 MINUTES 50 SECONDS WEST 1322.71 FEET; THENCE NORTH 0 DEGREES 00 MINUTES 25 SECONDS EAST 250.00 FEET TO THE POINT OF BEGINNING; THENCE NORTH 27 DEGREES 45 MINUTES 13 SECONDS WEST 395.82 FEET; THENCE NORTH 34 DEGREES 05 MINUTES 57 SECONDS WEST 349.61 FEET; THENCE NORTH 16 DEGREES 29 MINUTES 04 SECONDS WEST 102.20 FEET; THENCE NORTH 11 DEGREES 51 MINUTES 28 SECONDS EAST 143.56 FEET; THENCE NORTH 25 DEGREES 24 MINUTES 09 SECONDS EAST 202.81 FEET; THENCE NORTH 57 DEGREES 57 MINUTES 21 SECONDS EAST 140.98 FEET; THENCE NORTH 72 DEGREES 21 MINUTES 05 SECONDS EAST 182.03 FEET; THENCE SOUTH 0 DEGREES 00 MINUTES 25 SECONDS WEST 1191.47 FEET TO THE POINT OF BEGINNING.

ALSO EXCEPT: THE NORTH 43 FEET OF THE WEST 1/2 OF THE SOUTHEAST 1/4 OF SECTION 9, T1S, R9E, EXCEPT THE SOUTH PART THEREOF MEASURING 1297.40 FEET ON THE EAST LINE AND 1305.77 FEET ON THE WEST LINE OF SAID PARCEL, CONTAINING 69.35± ACRES.

AS SURVEYED:
LAND SITUATED IN THE CITY OF LIVONIA, COUNTY OF WAYNE, STATE OF MICHIGAN DESCRIBED AS:

A PARCEL OF LAND OF PART OF THE WEST 1/2 OF SOUTHEAST 1/4 OF SECTION 9, TOWN 1 SOUTH, RANGE 9 EAST, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A POINT IN THE NORTH LINE OF SIX MILE ROAD (120 FEET WIDE) SAID POINT BEING MEASURED SOUTH 89 DEGREES 50 MINUTES 45 SECONDS WEST, ALONG THE SOUTH LINE OF SECTION 9, A DISTANCE OF 1323.08 FEET AND NORTH 0 DEGREES 10 MINUTES 29 SECONDS WEST, A DISTANCE OF 60.0 FEET FROM THE SOUTHEAST CORNER OF SECTION 9, TOWN 1, SOUTH, RANGE 9 EAST; THENCE SOUTH 89 DEGREES 50 MINUTES 45 SECONDS WEST MEASURED ALONG THE NORTH LINE OF SIX MILE ROAD (120 FEET WIDE) A DISTANCE OF 1322.84 FEET TO A POINT IN THE NORTH AND SOUTH 1/4 LINE OF SECTION 9; THENCE NORTH 0 DEGREES 03 MINUTES 38 SECONDS EAST MEASURED ALONG THE NORTH AND SOUTH 1/4 LINE OF SECTION 9, A DISTANCE OF 2522.77 FEET, TO THE CENTER POST OF SAID SECTION 9; THENCE SOUTH 89 DEGREES 28 MINUTES EAST AND MEASURED ALONG THE EAST AND WEST 1/4 LINE OF SECTION 9, A DISTANCE OF 1312.60 FEET TO A POINT IN THE EAST AND WEST 1/4 LINE OF SECTION 9, SAID POINT ALSO BEING THE SOUTHWEST CORNER OF SEVEN MILE SUPER HIGHWAY SUBDIVISION, AS RECORDED IN LIBER 53, PAGE 50 OF PLATS, WAYNE COUNTY RECORDS; THENCE SOUTH 0 DEGREES 10 MINUTES 29 SECONDS EAST, 1124.76 FEET ALONG THE WESTERLY LINE OF FRANCAVILLA SUBDIVISION NO. 2, AS RECORDED IN LIBER 97 OF PLATS, ON PAGE 48, WAYNE COUNTY RECORDS; THENCE THE FOLLOWING BEARING AND DISTANCES ALONG SAID WESTERLY LINE OF SAID FRANCAVILLA SUBDIVISION NO. 2, SOUTH 72 DEGREES 10 MINUTES 11 SECONDS WEST, 182.03 FEET; THENCE SOUTH 57 DEGREES 46 MINUTES 27 SECONDS WEST 140.98 FEET; THENCE SOUTH 25 DEGREES 13 MINUTES 15 SECONDS WEST, 202.81 FEET; THENCE SOUTH 11 DEGREES 40 MINUTES 34 SECONDS WEST 143.56 FEET; THENCE SOUTH 16 DEGREES 39 MINUTES 58 SECONDS EAST, 102.20 FEET; THENCE SOUTH 34 DEGREES 16 MINUTES 51 SECONDS EAST, 349.61 FEET; THENCE SOUTH 27 DEGREES 56 MINUTES 07 SECONDS EAST, 395.82 FEET; THENCE SOUTH 00 DEGREES 10 MINUTES 29 SECONDS EAST, 190.00 FEET TO THE POINT OF BEGINNING.

TITLE REPORT NOTE

A CURRENT TITLE POLICY HAS NOT BEEN FURNISHED AT TIME OF SURVEY. THEREFORE EASEMENTS AND/OR ENCUMBRANCES AFFECTING SUBJECT PARCEL MAY NOT BE SHOWN.

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT I HAVE SURVEYED THE PROPERTY HEREIN DESCRIBED. THE ELEVATIONS SHOWN HEREON ARE BASED ON A FIELD SURVEY AND THE DRAWING HEREON DELINEATED IS A CORRECT REPRESENTATION OF THE SAME.

DRAFT

ANTHONY T. SYKO, JR., P.S.
PROFESSIONAL SURVEYOR
MICHIGAN LICENSE NO. 47976
22556 GRATIOT AVE., EASTPOINT, MI 48021
TSyko@kemtac-survey.com

NTH SHEET NO.:
TOPOGRAPHIC
SURVEY (BY OTHERS)

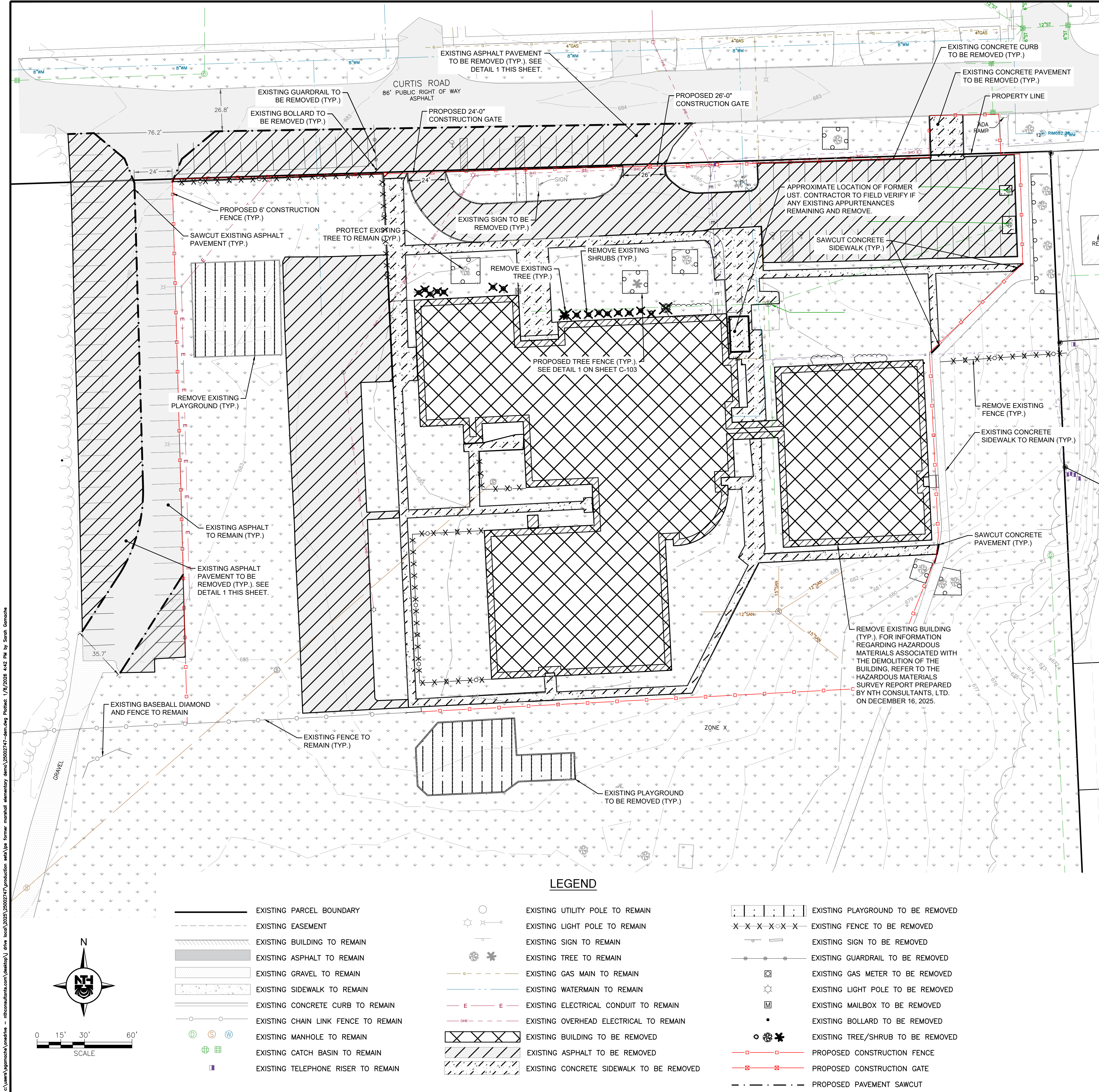
C-101

PROFESSIONAL ENGINEERING
SURVEYING & ENVIRONMENTAL
SERVICES
KEM-TEC
A GROUP OF COMPANIES
Eastpointe
(800) 255-7222
Ann Arbor
(313) 758-0877
Detroit
(313) 944-0888
Grand Blanc
(800) 694-0001
www.kemtacgroupofcompanies.com

TOPOGRAPHIC SURVEY
LIVONIA PUBLIC SCHOOLS
6 MILE RD, LIVONIA, MICHIGAN,
33500 W. 6 MILE RD, LIVONIA, MICHIGAN,
PART OF SECTION 9,
TOWN 1 SOUTH, RANGE 9 EAST

DATE	BY	REVISION
07/21/25	JDM	
07/23/25	ATS	
JULY 23, 2025		
25-01341		
1" = 30'		

c:\Users\jpmachado\one drive - nthconsultants.com\desktop\J drive\locat\2025\25002747-demolition\production\set\Upa\former_marshall_elementary_demo\25002747-demolition.dwg Plotted: 1/9/2026 4:42 PM by Sarah Gernache



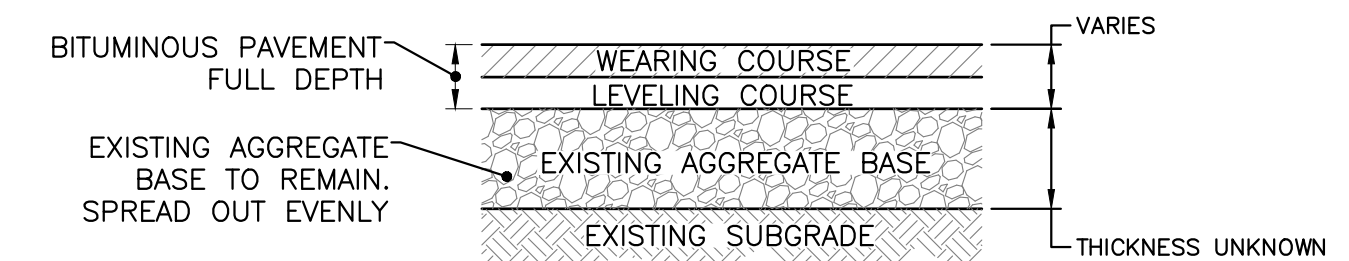
LEGEND

	EXISTING PARCEL BOUNDARY
	EXISTING EASEMENT
	EXISTING BUILDING TO REMAIN
	EXISTING ASPHALT TO REMAIN
	EXISTING GRAVEL TO REMAIN
	EXISTING SIDEWALK TO REMAIN
	EXISTING CONCRETE CURB TO REMAIN
	EXISTING CHAIN LINK FENCE TO REMAIN
	EXISTING MANHOLE TO REMAIN
	EXISTING CATCH BASIN TO REMAIN
	EXISTING TELEPHONE RISER TO REMAIN
	EXISTING UTILITY POLE TO REMAIN
	EXISTING LIGHT POLE TO REMAIN
	EXISTING SIGN TO REMAIN
	EXISTING TREE TO REMAIN
	EXISTING GAS MAIN TO REMAIN
	EXISTING WATERMAIN TO REMAIN
	EXISTING ELECTRICAL CONDUIT TO REMAIN
	EXISTING OVERHEAD ELECTRICAL TO REMAIN
	EXISTING BUILDING TO BE REMOVED
	EXISTING ASPHALT TO BE REMOVED
	EXISTING CONCRETE SIDEWALK TO BE REMOVED

	EXISTING PLAYGROUND TO BE REMOVED
	EXISTING FENCE TO BE REMOVED
	EXISTING SIGN TO BE REMOVED
	EXISTING GUARDRAIL TO BE REMOVED
	EXISTING GAS METER TO BE REMOVED
	EXISTING LIGHT POLE TO BE REMOVED
	EXISTING MAILBOX TO BE REMOVED
	EXISTING BOLLARD TO BE REMOVED
	EXISTING TREE/SHRUB TO BE REMOVED
	PROPOSED CONSTRUCTION FENCE
	PROPOSED CONSTRUCTION GATE
	PROPOSED PAVEMENT SAWCUT

SITE DEMOLITION NOTES:

1. TOPOGRAPHIC SURVEY WAS PROVIDED BY KEM-TEC ON JULY 23, 2025. ALL EXISTING INFORMATION SHOWN IS FROM THIS SURVEY OF RECORD OR WAS SUPPLEMENTED BY INFORMATION FROM SITE VISITS AND/OR HISTORICAL DRAWINGS.
2. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY THE CITY OF LIVONIA, WAYNE COUNTY AND/OR STATE OF MICHIGAN.
3. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL PHOTOGRAPH OR VIDEOTAPE ALL EXISTING CONDITIONS OF NEARBY PUBLIC AND PRIVATE PROPERTY, INCLUDING STRUCTURES, ROADS, EASEMENTS, SIDEWALKS, ETC.
4. PRIOR TO DEMOLITION, ALL REQUIRED SOIL EROSION AND SEDIMENT CONTROL DEVICES ARE TO BE INSTALLED.
5. CONTRACTOR SHALL MAINTAIN ALL EXISTING ROADS, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC AT ALL TIMES.
5. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, TRAFFIC CONTROL, ETC. CONFORMING TO BEST PRACTICES.
6. PRIOR TO DEMOLITION, TEMPORARY 6 FEET HIGH MINIMUM CONSTRUCTION FENCING WITH WINDSCREEN SHALL BE INSTALLED AROUND THE DEMOLITION LIMITS. REMOVE ALL TEMPORARY FENCING AT COMPLETION OF PROJECT.
7. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, TRAFFIC CONTROL, ETC. CONFORMING TO BEST PRACTICES.
8. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE ANY EXISTING STRUCTURE AND/OR ITEM TO REMAIN ON ADJACENT PROPERTIES, THEN THE CONTRACTOR SHALL MAKE ALL NECESSARY REPAIRS AT THEIR OWN EXPENSE. ALL CONSTRUCTION MATERIALS SHALL BE OF EQUAL OR HIGHER QUALITY AND SHALL BE APPROVED BY OWNER'S REPRESENTATIVE.



1 FULL DEPTH REMOVAL DETAIL
NOT TO SCALE

BID



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:

KEY MAP:	NORTH ARROW:

REVISION BLOCK	
REV	DATE/DESCRIPTION

SUBMITTAL LOG	
DATE	PACKAGE NAME

PROJECT NAME:
**LIVONIA PUBLIC SCHOOLS
FORMER MARSHALL
ELEMENTARY SCHOOL
DEMOLITION**

PROJECT LOCATION:
**33901 CURTIS ROAD
LIVONIA, MICHIGAN 48152**

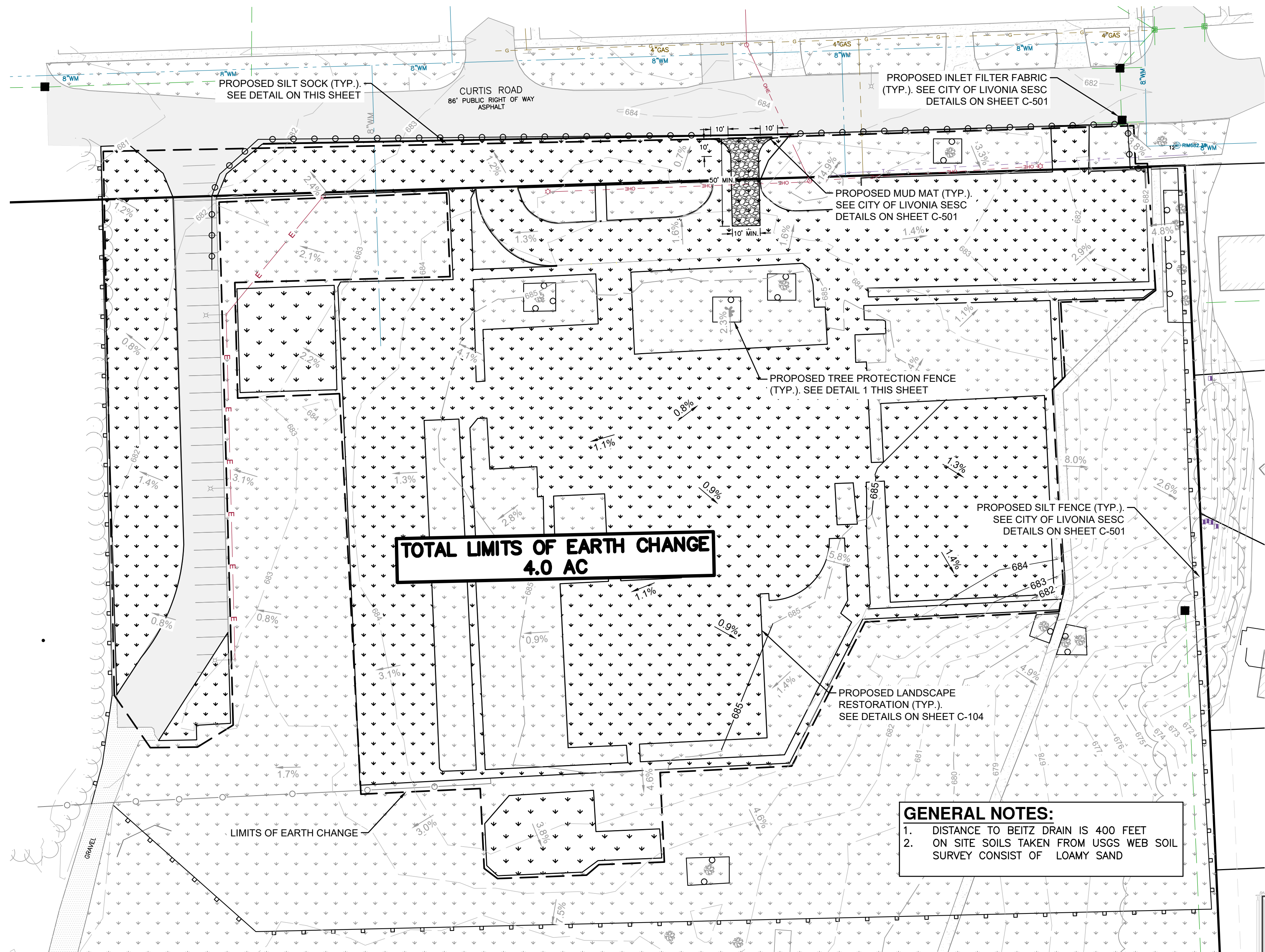
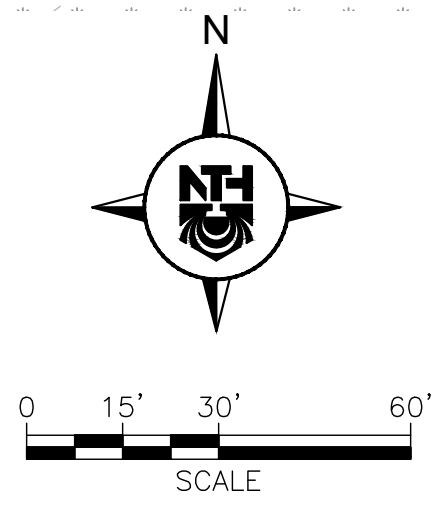
DESIGNED BY: SKG	NTH PROJECT NO.: 25002747
DRAWN BY: SKG	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: MJT	DATE: 1/8/2026
CAD FILE NAME: 25002747-DEM	

SHEET TITLE:
SITE DEMOLITION PLAN

SHEET NUMBER:

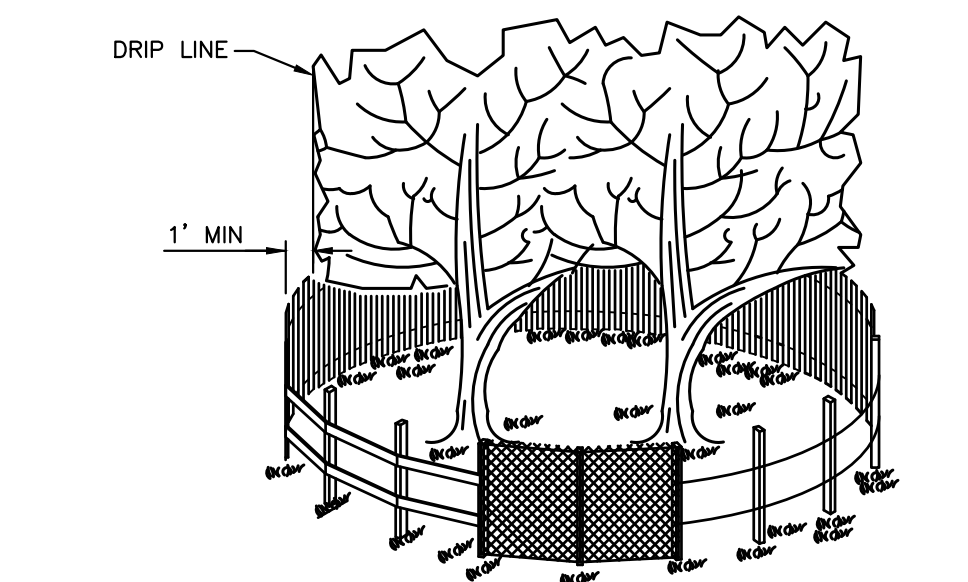
C-102

c:\Users\jgmcmahone\OneDrive - nthconsultants.com\desktop\J drive\lock\2502747\2502747-production web\lpa\former\marshalls\elementary\demo\2502747-sec501.dwg Plot Date: 1/9/2026 4:42 PM by Sarah Gannochie

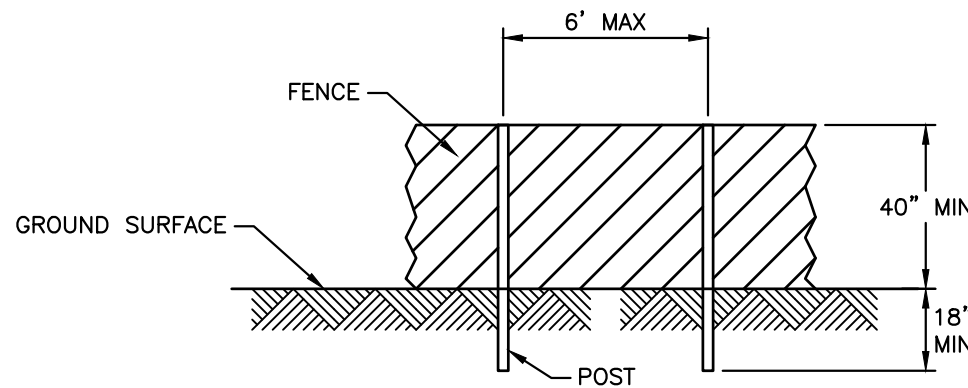


LEGEND

	EXISTING PARCEL BOUNDARY		EXISTING MANHOLE
	EXISTING EASEMENT		EXISTING CATCH BASIN
	EXISTING CONTOURS		EXISTING TELEPHONE RISER
	EXISTING BUILDING		EXISTING UTILITY POLE
	EXISTING ASPHALT		EXISTING LIGHT POLE
	EXISTING GRAVEL		EXISTING SIGN
	EXISTING SIDEWALK		EXISTING TREE
	EXISTING GREENSPACE		EXISTING TREE
	EXISTING CONCRETE CURB		PROPOSED CONTOURS
	EXISTING CHAIN LINK FENCE		PROPOSED GREENSPACE
	EXISTING ELECTRICAL OVERHEAD		PROPOSED CONCRETE SIDEWALK
	EXISTING ELECTRICAL UNDERGROUND		PROPOSED CONCRETE CURB
	EXISTING STORM SEWER		PROPOSED TREE PROTECTION FENCE
	EXISTING WATER MAIN		PROPOSED SILT FENCE
	EXISTING HYDRANT AND VALVE		PROPOSED SILT SOCK
			LIMITS OF EARTH CHANGE
			PROPOSED INLET FILTER FABRIC



SIDE VIEW



POST AND FENCE DETAIL

- NOTES:**
1. THE FENCE SHALL BE LOCATED A MINIMUM OF 1 FOOT OUTSIDE THE DRIP LINE OF THE TREE TO BE SAVED AND IN NO CASE CLOSER THAN 5 FEET TO THE TRUNK OF ANY TREE.
 2. FENCE POSTS SHALL BE EITHER STANDARD STEEL POSTS OR WOOD POSTS WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQ. IN.
 3. THE FENCE MAY BE EITHER 40" HIGH SNOW FENCE, 40" PLASTIC WEB FENCING OR ANY OTHER MATERIAL AS APPROVED BY THE ENGINEER/INSPECTOR.
 4. ALL TREES TO BE REMOVED WILL BE IDENTIFIED BY RED FLAGGING.
 5. TREE PROTECTION FENCING IS TO BE ERCTED PRIOR TO ANY EARTHWORK OR CONSTRUCTION AND IS TO REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
 6. ALL DEBRIS, FILL, EQUIPMENT OR MATERIAL IS TO BE KEPT CLEAR OF AREA WITHIN PROTECTIVE FENCE. NO CLEANING OF EQUIPMENT OR MATERIAL OR STORAGE OR DISPOSAL OF ANY MATERIAL WITHIN THE DRIP LINE OF ANY TREES TO BE SAVED.

1 TREE PROTECTION FENCE DETAIL NOT TO SCALE

SOIL EROSION AND SEDIMENT CONTROL

NOTES:

THIS PLAN ILLUSTRATES THE MINIMUM SOIL EROSION AND SEDIMENTATION CONTROLS NEEDED TO PREVENT SILTS FROM LEAVING THE SITE AND IS SUBJECT TO CHANGE AS CONDITIONS IN THE FIELD WARRANT.

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.

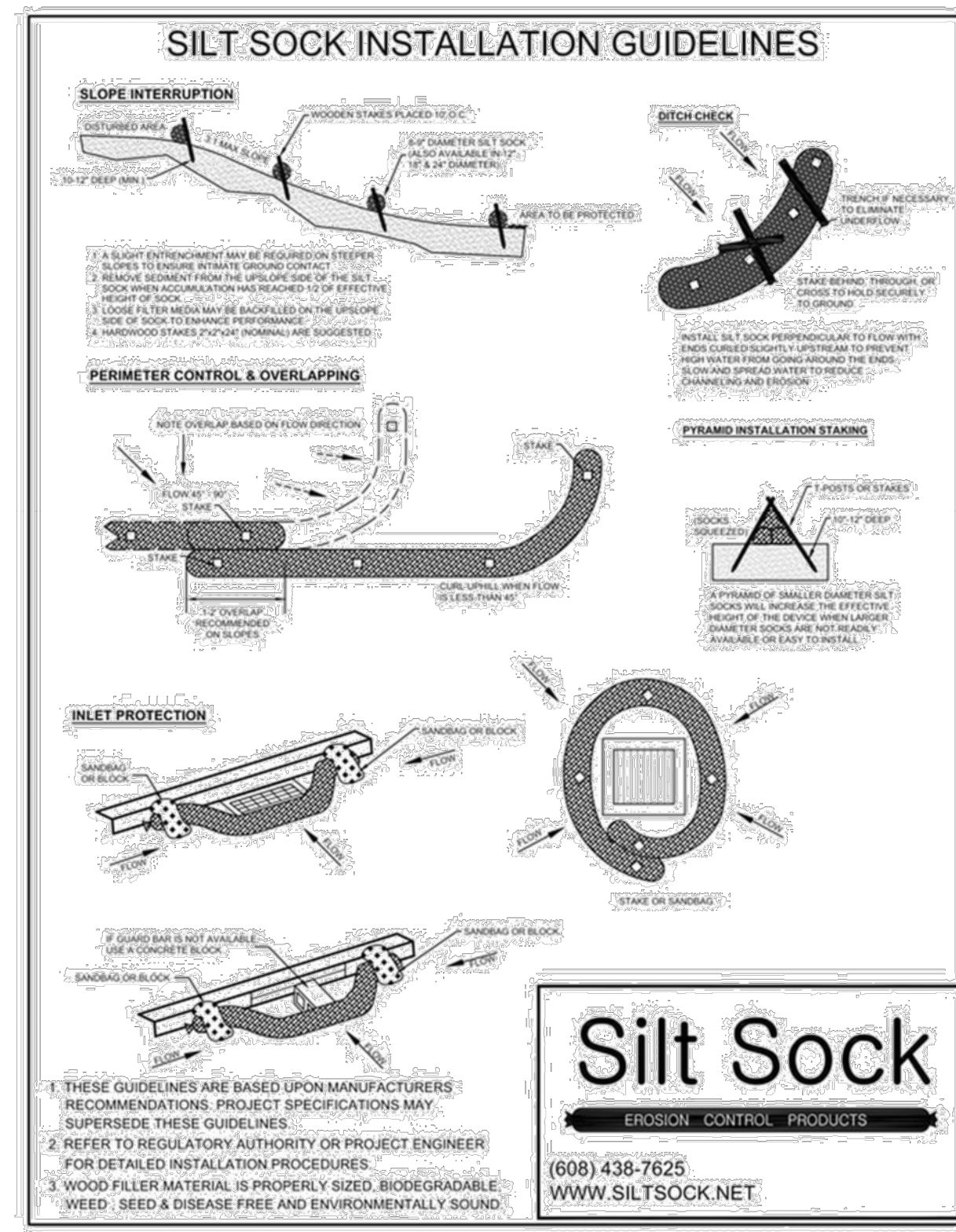
THE PURPOSE OF THIS PLAN IS TO SPECIFY METHODS FOR TEMPORARY EROSION CONTROL DURING CONSTRUCTION. IT IS INTENDED THAT MEASURES CALLED FOR IN THE SPECIFICATIONS AND SHOWN ON THESE PLANS BE STRICTLY ADHERED TO. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT CONSTRUCTION PROCEDURES UNDERTAKEN 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.



2 SILT SOCK DETAIL NOT TO SCALE

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, SEDING 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.

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.

SOIL EROSION SEQUENCE OF CONSTRUCTION

1. INSTALL SILT FENCE, INLET FILTERS ON EXISTING CATCH BASINS, TREE PROTECTION FENCE AROUND TREES TO REMAIN, AND MUD MAT AT CONSTRUCTION ENTRANCE. ESTIMATED DATE: 4/2026
2. DEMOLISH AND GRUB THE SITE PER THE PLANS. ESTIMATED DATE: 5/2026
3. CONSTRUCT SITE FEATURES PER THE PLANS INCLUDING SIDEWALK PAVEMENT, ORNAMENTAL FENCE. ESTIMATED DATE: 6/2025 – 9/2025
4. STABILIZE DISTURBED AREAS AS NOTED ON THE PLANS WITHIN 5 DAYS OF FINAL GRADING. ESTIMATED DATE: 9/2026
5. RESTORE ALL OFF-SITE AREAS TO PRE-CONSTRUCTION CONDITION FOLLOWING SITE CONSTRUCTION. ESTIMATED DATE: 10/2026
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. ESTIMATED DATE: 10/2026
7. REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS FOLLOWING SITE CONSTRUCTION, FINAL STABILIZATION OF WORK, AND FINAL INSPECTION. ESTIMATED DATE: 10/2026



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:

KEY MAP:	NORTH ARROW:
8 MILE ROAD	7 MILE ROAD
6 MILE ROAD	5 MILE ROAD
4 MILE ROAD	3 MILE ROAD
2 MILE ROAD	1 MILE ROAD

REV	DATE	DESCRIPTION

SUBMITTAL LOG	
DATE	PACKAGE NAME

PROJECT NAME:
**LIVONIA PUBLIC SCHOOLS
FORMER MARSHALL
ELEMENTARY SCHOOL
DEMOLITION**

PROJECT LOCATION:
**33901 CURTIS ROAD
LIVONIA, MICHIGAN 48152**

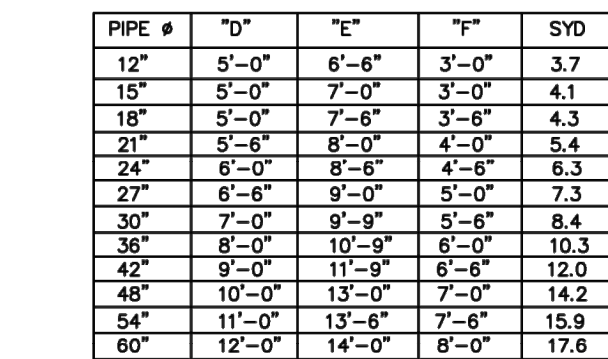
DESIGNED BY: SKG	NTH PROJECT NO.: 25002747
DRAWN BY: SKG	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: MJT	DATE: 1/8/2026
CAD FILE NAME: 25002747-SESC	

SHEET TITLE:
**SOIL EROSION AND
SEDIMENTATION
CONTROL PLAN**

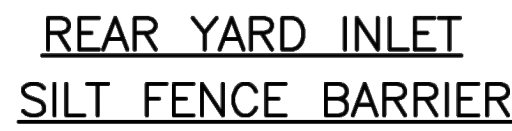
SHEET NUMBER:



BID



STORM OUTLET DETAIL WITH
GROUTED STONE RIP-RAP



1. ALL MUD, DIRT, AND/OR DEBRIS TRACKED OR SPILLED ON ANY PAVED AND/OR UNPAVED AREAS SHALL BE REMOVED/CLEANED DAILY IN A PROMPT MANNER BY THE CONTRACTOR AND/OR BURDER. SCRAPING AND/OR SWEEPING OF PAVED AREAS TO REMOVE DEBRIS WILL BE REQUIRED WEEKLY.
2. SILT FENCE MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY BUILT-UP SEDIMENT WHEN THE HEIGHT OF THE SEDIMENT ACCUMULATES TO $\frac{1}{2}$ TO $\frac{3}{4}$ OF THE HEIGHT OF THE FENCE OR IF THE FABRIC BEGINS TO SAG. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, REPLACEMENT, RETRENCHING AND BACKFILLING OF THE SILT FENCE SHOULD IT FALL OR BE DAMAGED DURING CONSTRUCTION.
3. SILT SACK MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY ACCUMULATED SEDIMENTATION OR OTHER DEBRIS FROM THE SILT SACK. THE REMOVAL OF SEDIMENTATION SHOULD BE ACCOMPLISHED BY USING A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL. IF SILT SACKS CANNOT BE CLEANED, OR ARE DAMAGED, THEY MUST BE REPLACED ACCORDING TO THE PLANS.
4. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING OR FINAL EARTH CHANGES HAVE BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER AN EARTH CHANGE HAS BEEN COMPLETED, OR WHERE SIGNIFICANT EARTH CHANGE ACTIVITY CEASED, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED WITHIN 5 CALENDAR DAYS. ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND /OR ESTABLISHED. ALL PERMANENT SOIL EROSION CONTROL MEASURES WILL BE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED. ALL DRAIN BANKS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITHIN 5 CALENDAR DAYS AND SOD PEGGED IN PLACE.
5. FILTER BARRIERS AND LOW POINT INLET FILTERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
6. IF ANY FILTER FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE, AND THE BARRIER IS STILL REQUIRED, THE FABRIC SHALL BE REPLACED PROMPTLY. FILTER FENCING WHICH SAGS, FALLS OVER OR IS NOT STAKED IN, SHOULD PROMPTLY BE REPAIRED OR REPLACED.
7. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, AND SEEDDED.
8. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES BOTH PERMANENT AND TEMPORARY SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER, UNLESS OTHERWISE NOTED. THESE MAINTENANCE RESPONSIBILITIES SHALL BE PART OF ANY FUTURE SALES AGREEMENT.
9. EXCAVATED MATERIALS SHALL REMAIN ON-SITE. PARTICULAR CARE SHOULD BE TAKEN WHEN WORKING ALONG THE PERIMETER OF THE SITE. IN NO EVENT SHALL THE WORK AREA EXTEND BEYOND THE LIMITS INDICATED ON THE PLANS.
10. ALL SOIL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF WAYNE COUNTY AND THE CITY OF LIVONIA.
11. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE EFFECTIVENESS OF THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. ANY NECESSARY REPAIRS SHALL BE PERFORMED WITHOUT DELAY.
12. EROSION AND/OR SEDIMENT FROM ON-SITE WORK SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS, OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES, AND POND.
13. SOIL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO, OR AS THE FIRST STEP IN CONSTRUCTION. SESC PRACTICES SHALL BE APPLIED AS A PERIMETER DEFENSE AGAINST THE TRANSPORTING OF SILT OFF-SITE.
14. THE CONTRACTOR SHALL APPLY TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED, AND AS DIRECTED ON THESE PLANS. TEMPORARY MEASURES SHALL BE REMOVED AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER EARTH CHANGES HAVE BEEN ACCOMPLISHED AND APPROVED BY THE CITY OF LIVONIA ENGINEERING DIVISION.
15. DEBRIS FROM THE PROJECT SITE SHALL BE LEFT ON-SITE BY DELIVERY OR CONSTRUCTION VEHICLES THROUGH THE USE OF CLEAN STONE EXIT(S). SHOULD THE STONE BECOME LESS EFFECTIVE AND/OR EFFICIENT IT SHALL BE REPLACED. ALL CONSTRUCTION TRAFFIC MUST USE THE CLEAN STONE EXIT(S).
16. DUST CONTROL SHALL BE EXERCISED AT ALL TIMES WITHIN THE PROJECT BY THE DEVELOPER AND/OR HIS CONTRACTORS. SPRINKLING TANK TRUCKS MUST BE AVAILABLE AT ALL TIMES TO BE USED ON HAUL ROUTES OR OTHER PLACES WHERE DUST MAY BECOME A PROBLEM.
17. EARTH EMBANKMENT BRIDGES PLACED OVER NEW PAVEMENT SHALL BE LOCATED ONLY AT PAVEMENT HIGH-POINTS AND SHALL HAVE STRAW BALES PLACED ALONG EACH SIDE OF THE BRIDGE FOR THE WIDTH OF PAVEMENT.
18. IMMEDIATELY AFTER SEEDING, ALL SEEDED AREAS SHALL BE MULCHED WITH UNWEATHERED SMALL GRAIN STRAW OR HAY, SPREAD UNIFORMLY AT THE RATE OF $\frac{1}{2}$ TONS TO 2 TONS PER ACRE OR 100 POUNDS PER 1000 SQUARE FEET. ANCHOR MULCH WITH DISC-TYPE ANCHORING TROWEL OR OTHER MEANS APPROVED BY THE CITY OF LIVONIA ENGINEERING DIVISION.

Department of Public Works, Engineering Division
33000 Civic Center Drive
Livonia, Michigan 48154
(734) 466-2570, (734) 466-2195 Fax

Standard Detail Sheet

1

JOB No.		REV.	DATE	DATE:	1/23/2003
PREVISIONS:				SHEET	1 OF 1
Landowner Responsibility Note			5/2007	CADD:	dl
Check Dam Detail Added			2/2007	ENG:	tz
Misc. Text Edits			3/2013	PW:	
				TECH:	
				Soil Erosion Detail dwg	
				15M	

NT
TH

NTH Consultants, Ltd.

Infrastructure Engineering
Environmental Services
Facilities Engineering

www.nthconsultants.com

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 the location of public utility lines.

ALTERNATE NUMBER (811)
CALL CODES FOR UTILITY LOCATION

Yellow	Oil & Gas	Blue	Water
Orange	PHONE & CABLE	Green	SANITARY SEWAGE
Red	ELECTRIC	Brown	SEWER

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

SEAL/STAMP:



REVISION BLOCK	
REV	DATE: DESCRIPTION

SUBMITTAL LOG	
DATE	PACKAGE NAME

PROJECT NAME:
LIVONIA PUBLIC SCHOOLS
FORMER MARSHALL
ELEMENTARY SCHOOL
DEMOLITION

PROJECT LOCATION:
33901 CURTIS ROAD
LIVONIA, MICHIGAN 48152

DESIGNED BY: SKG	NTH PROJECT NO.: 25002747
DRAWN BY: SKG	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: MJT	DATE: 1/8/2026

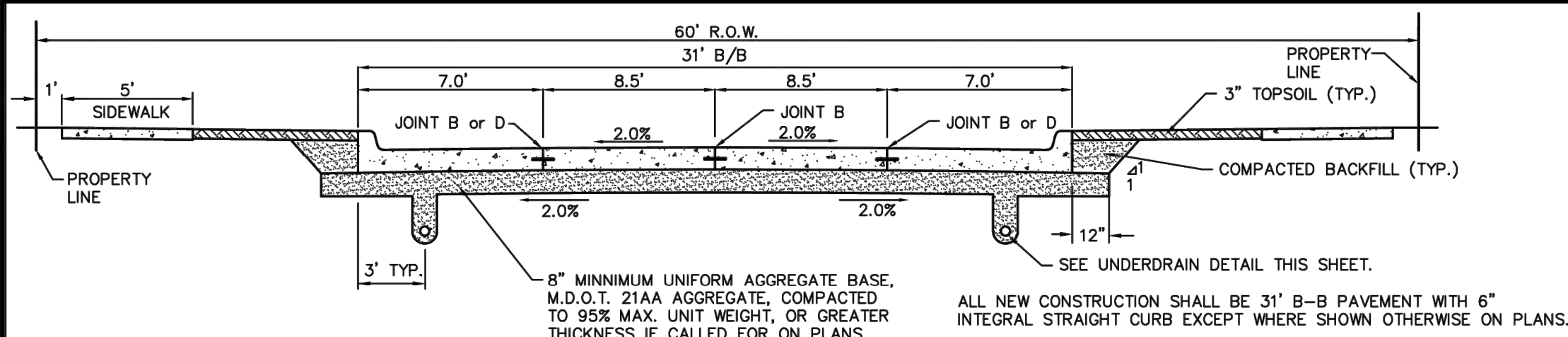
SHEET TITLE:
CITY OF LIVONIA SESC
DETAILS

SHEET NUMBER:

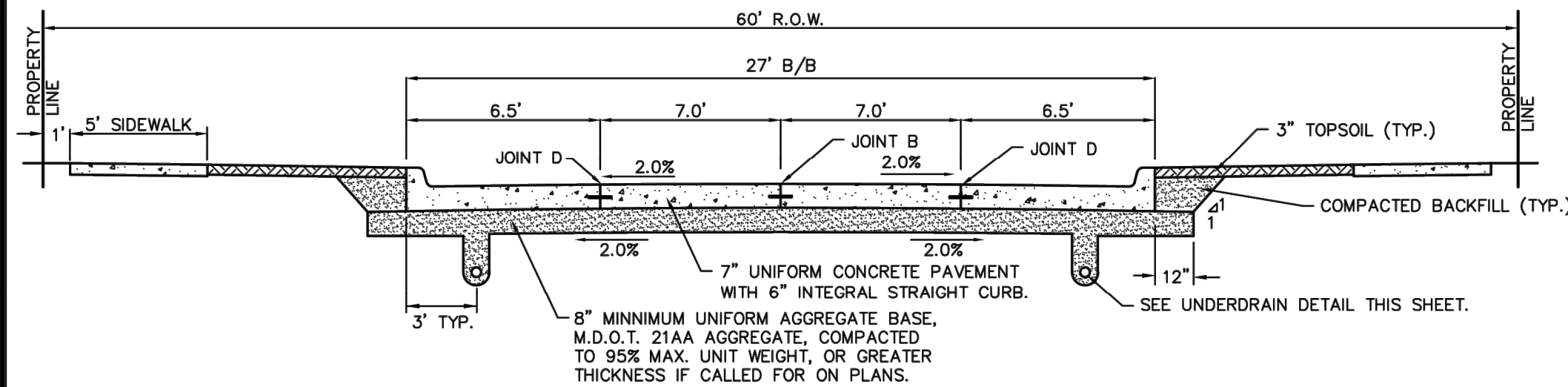
C-501

BID

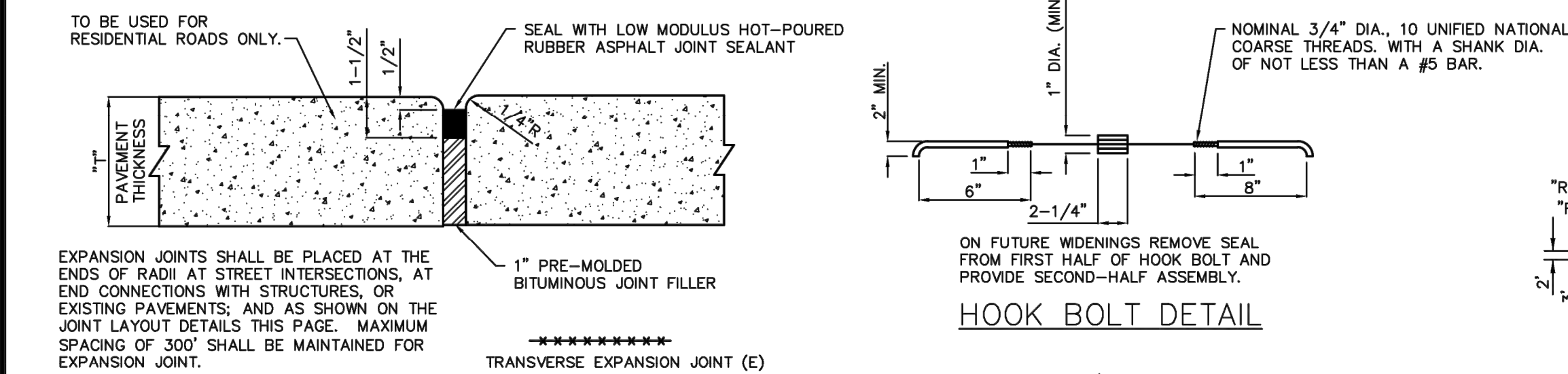
c:\users\jpmcmahone\one drive - nthconsultants.com\desktop\J drive local\25022747-std.dwg Plotter: 1/8/2028 4:44 PM by Sarah Rommehine



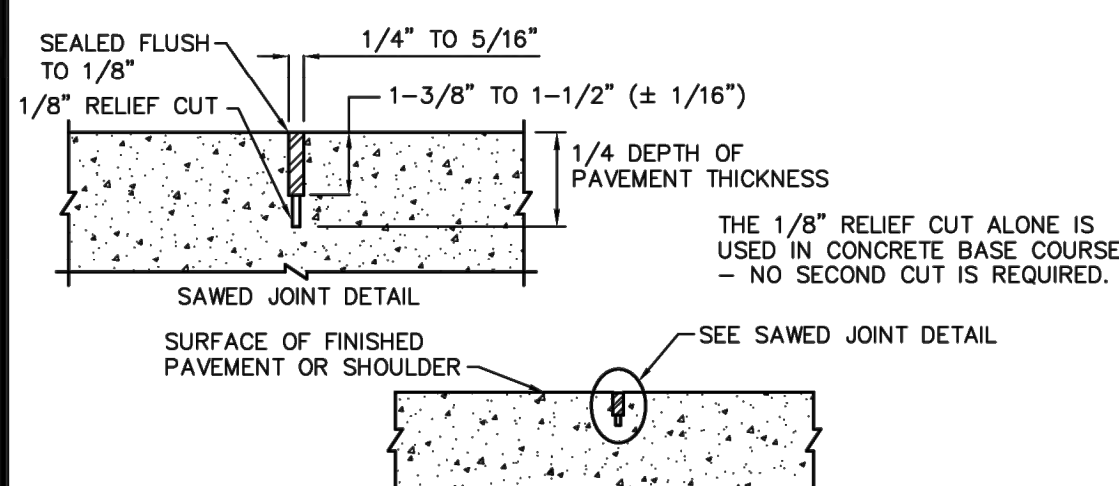
31' LOCAL STREET CROSS-SECTION



27' LOCAL STREET CROSS-SECTION

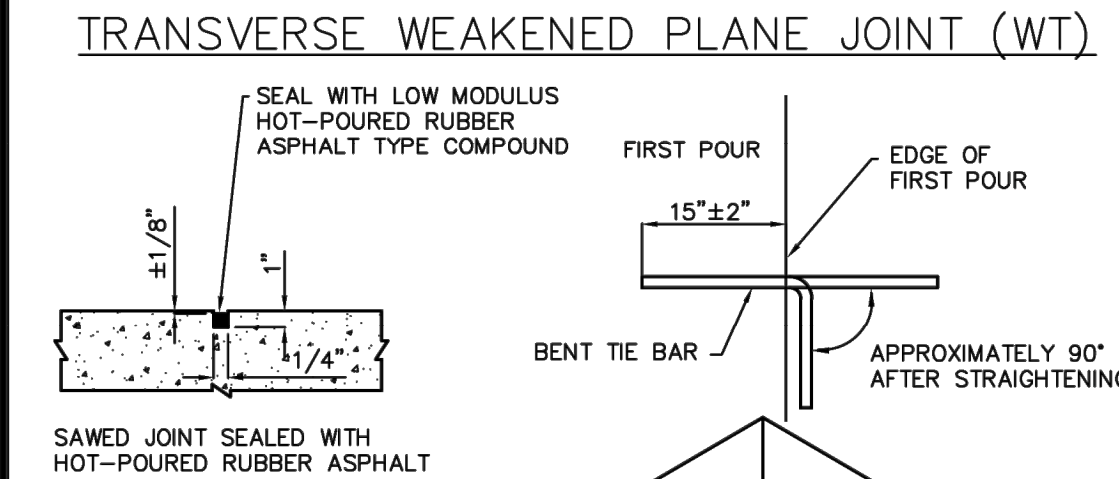
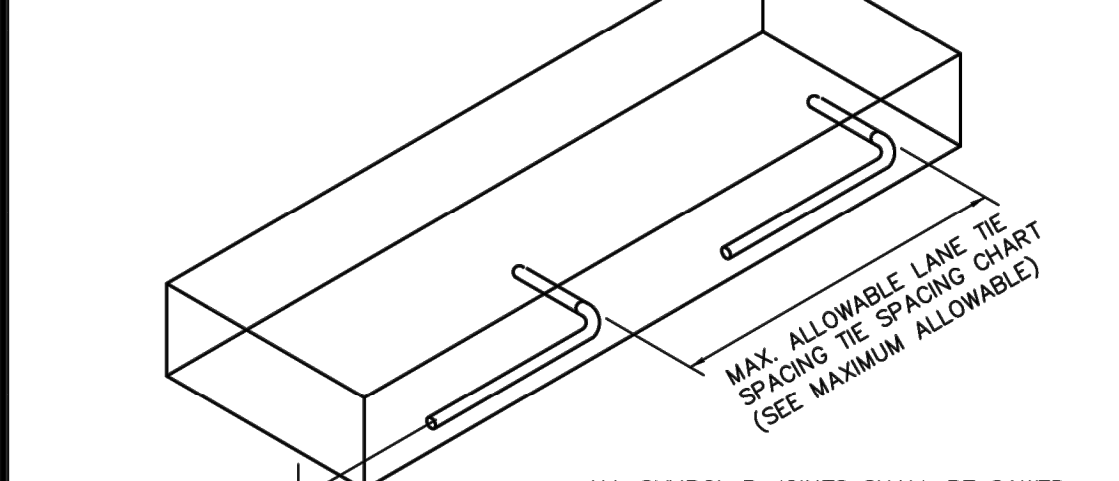


TRANSVERSE EXPANSION JOINT (E)

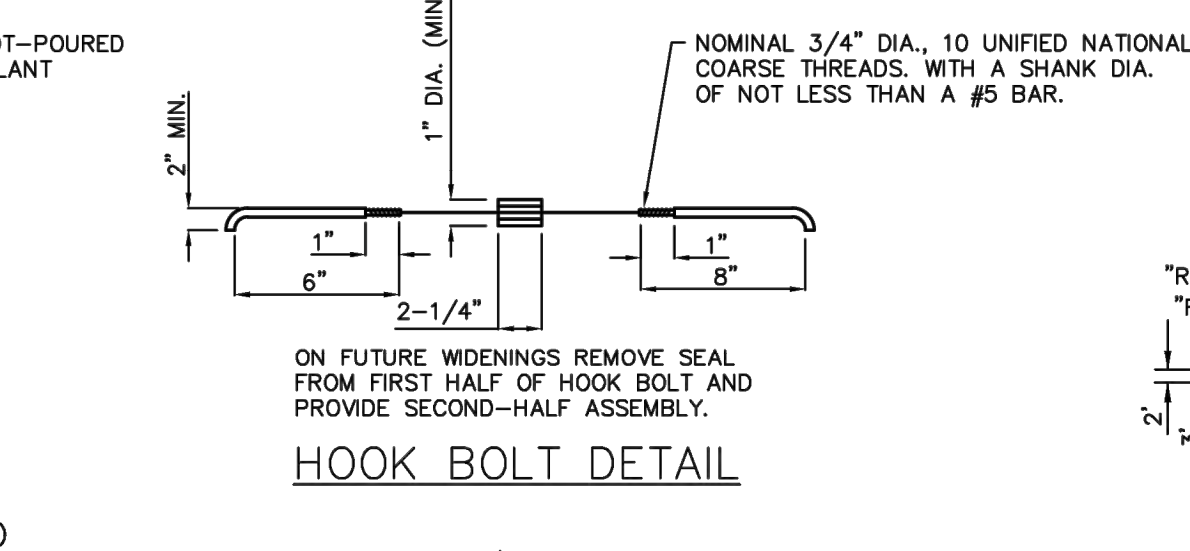


1. TRANSVERSE PLANE OF WEAKNESS JOINTS SHALL BE CONSTRUCTED IMMEDIATELY AFTER THE FINISHING OPERATION HAS BEEN COMPLETED. THE TRANSVERSE PLANE OF WEAKNESS JOINTS SHALL BE PLACED AT 12.5 FOOT INTERVALS BETWEEN TRANSVERSE EXPANSION JOINTS.
2. TRANSVERSE PLANE OF WEAKNESS JOINTS SHALL BE SEALED WITH LOW MODULUS HOT-POURED RUBBER-ASPHALT TYPE JOINT SEALING COMPOUND EXCEPT FOR IN CONCRETE BASE COURSE.
3. WHEN A JOINT FALLS WITHIN 5 FT. OF OR CONTACTS BASINS, MANHOLES, OR OTHER STRUCTURES, SHORTEN ONE OR MORE PANELS EITHER SIDE OF THE STRUCTURE TO PERMIT JOINT TO FALL ON CENTERLINE OF ROUND STRUCTURES AND AT CORNER OF RECTANGULAR STRUCTURES, OR AS DIRECTED BY THE ENGINEER.

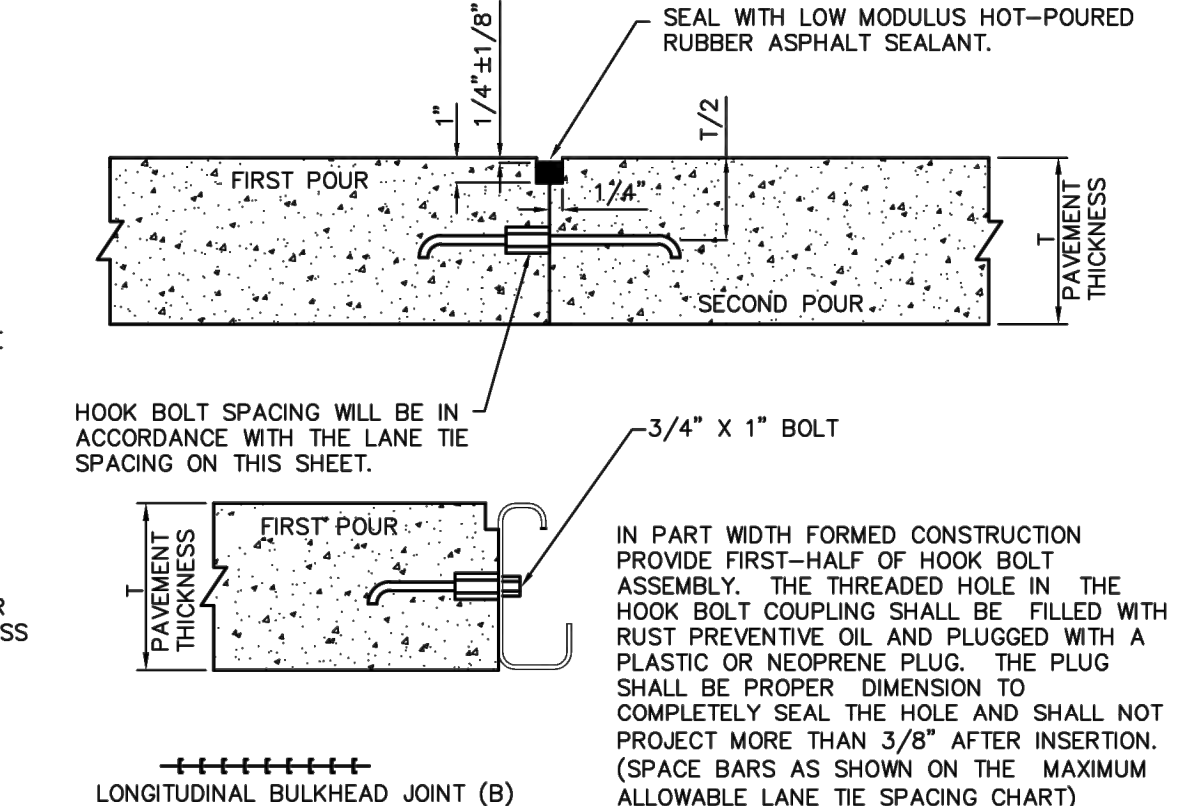
TRANSVERSE WEAKENED PLANE JOINT (WT)



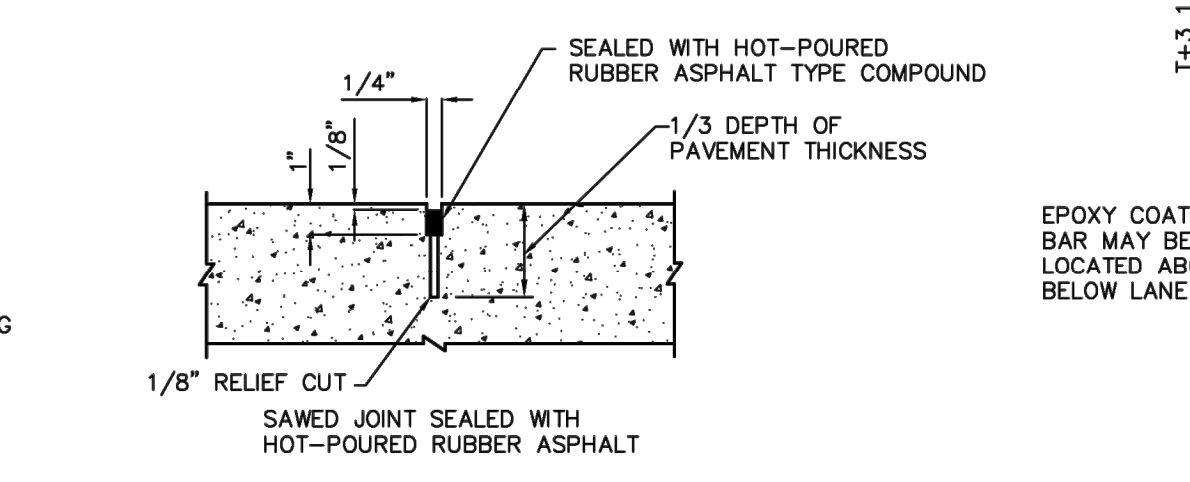
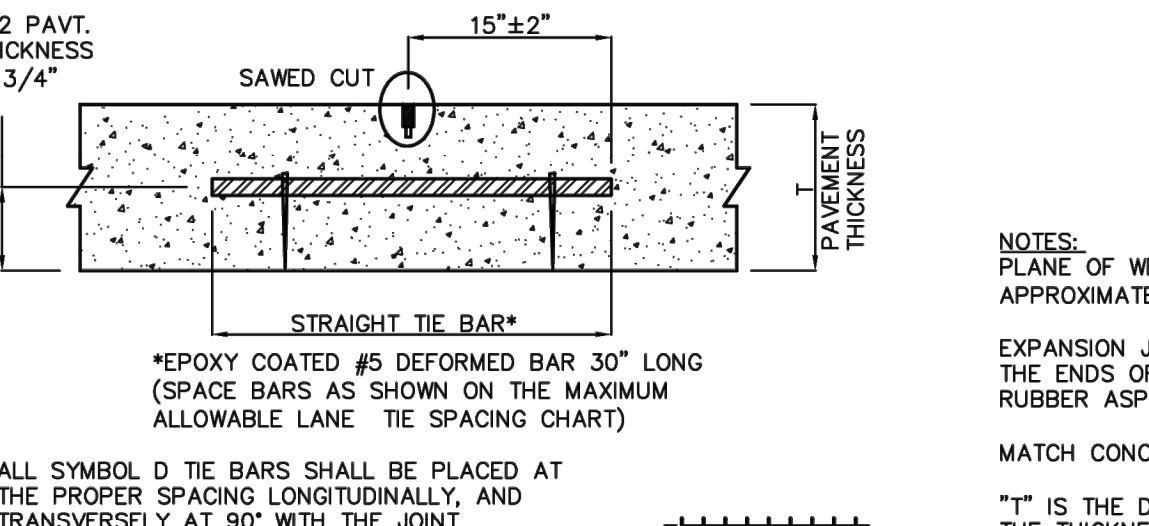
LONGITUDINAL FORMED BULKHEAD CONSTRUCTION JOINT WITH LANE TIES (B1)



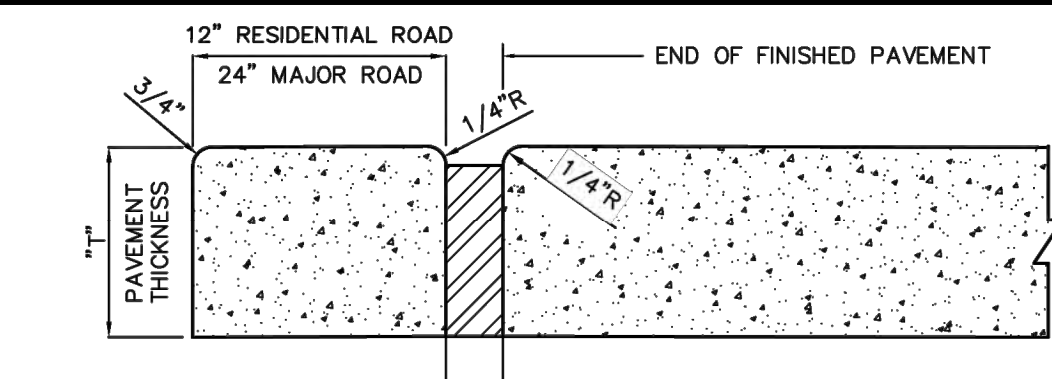
HOOK BOLT DETAIL



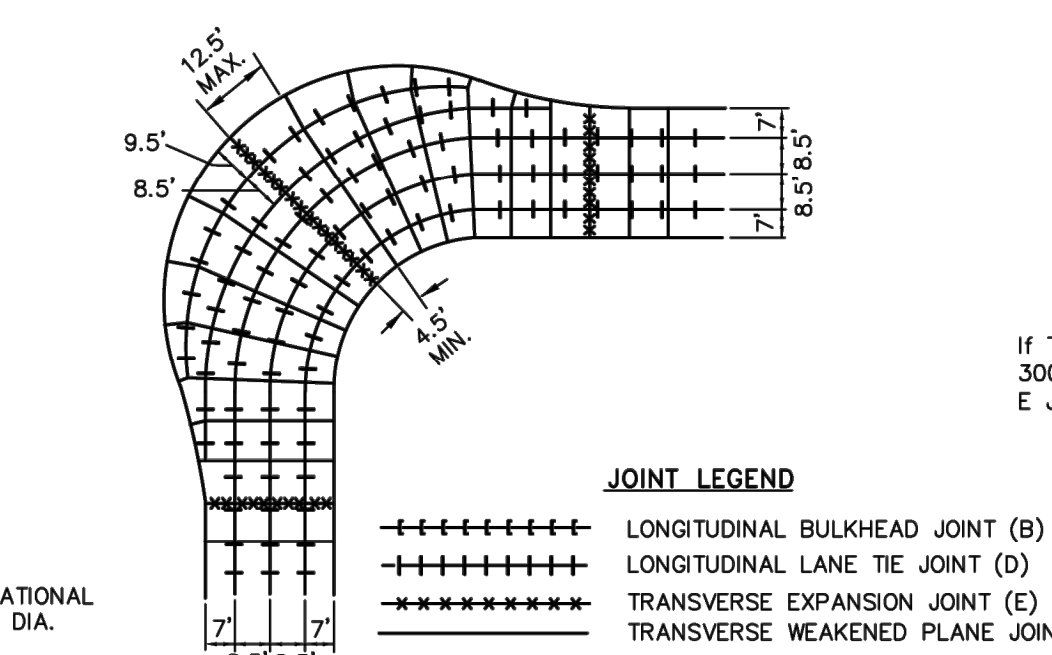
LONGITUDINAL FORMED BULKHEAD CONST. JOINT WITH HOOK-BOLT ASSEMBLY (B2)



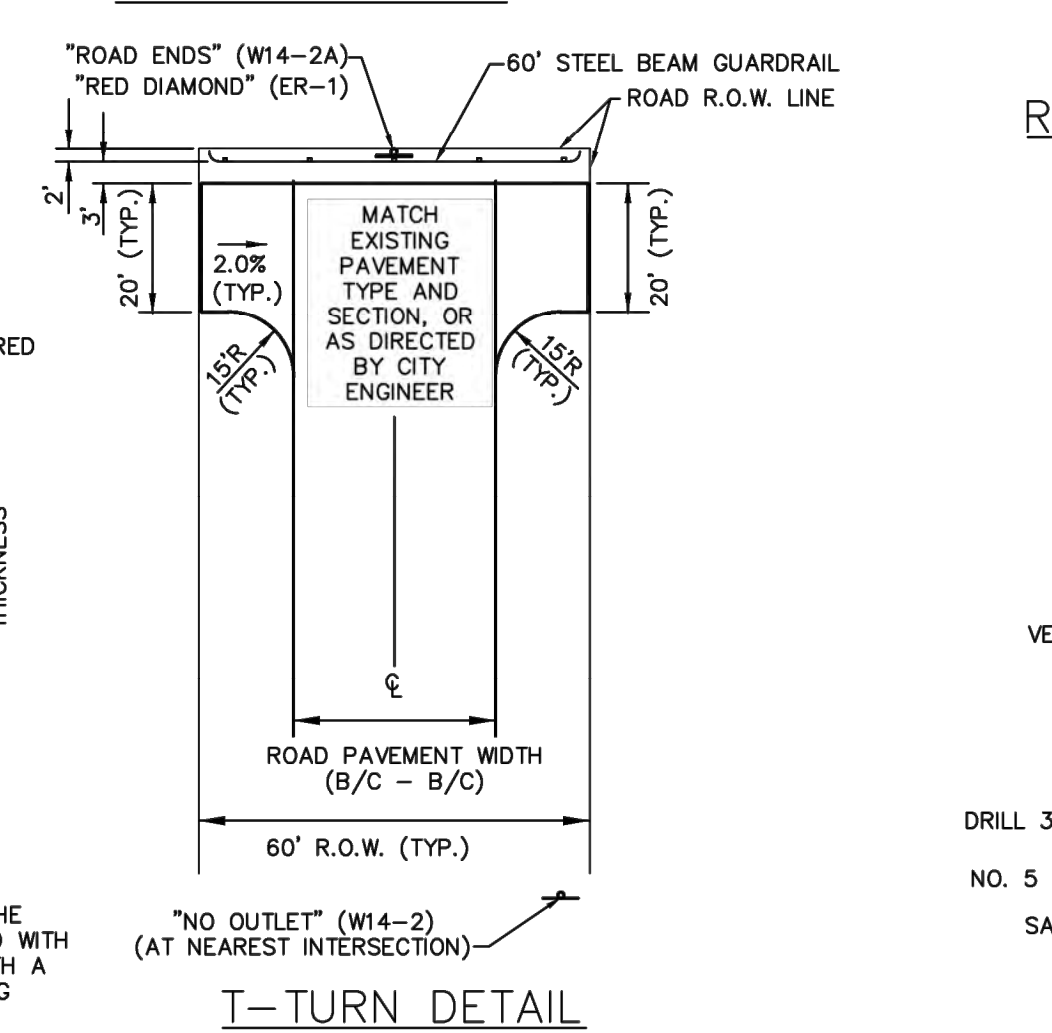
LONGITUDINAL LANE TIE JOINT (D)



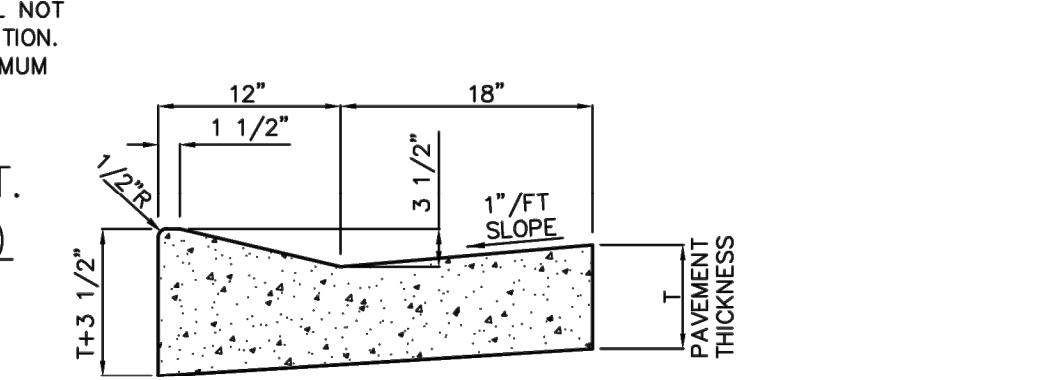
END HEADER DETAIL



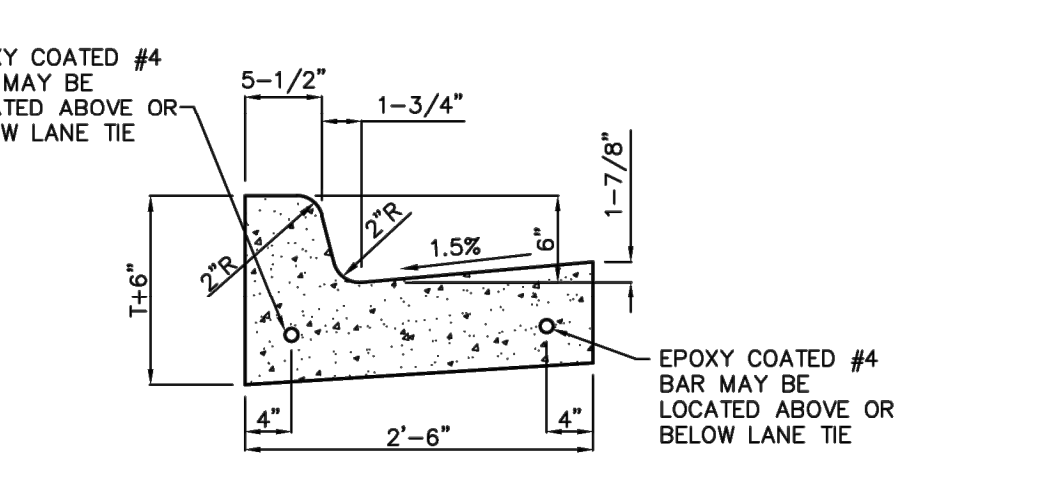
EYEBROW DETAIL



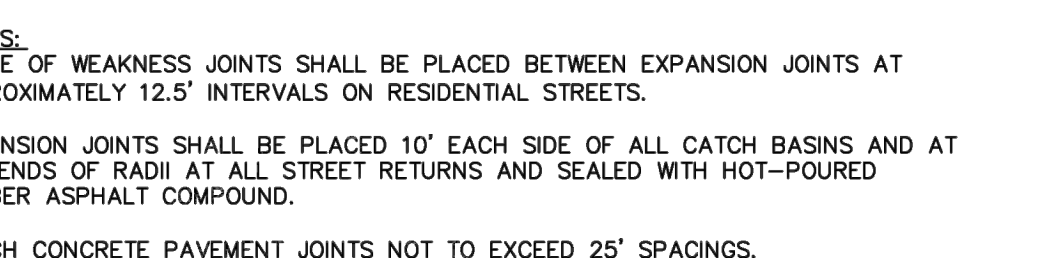
T-TURN DETAIL



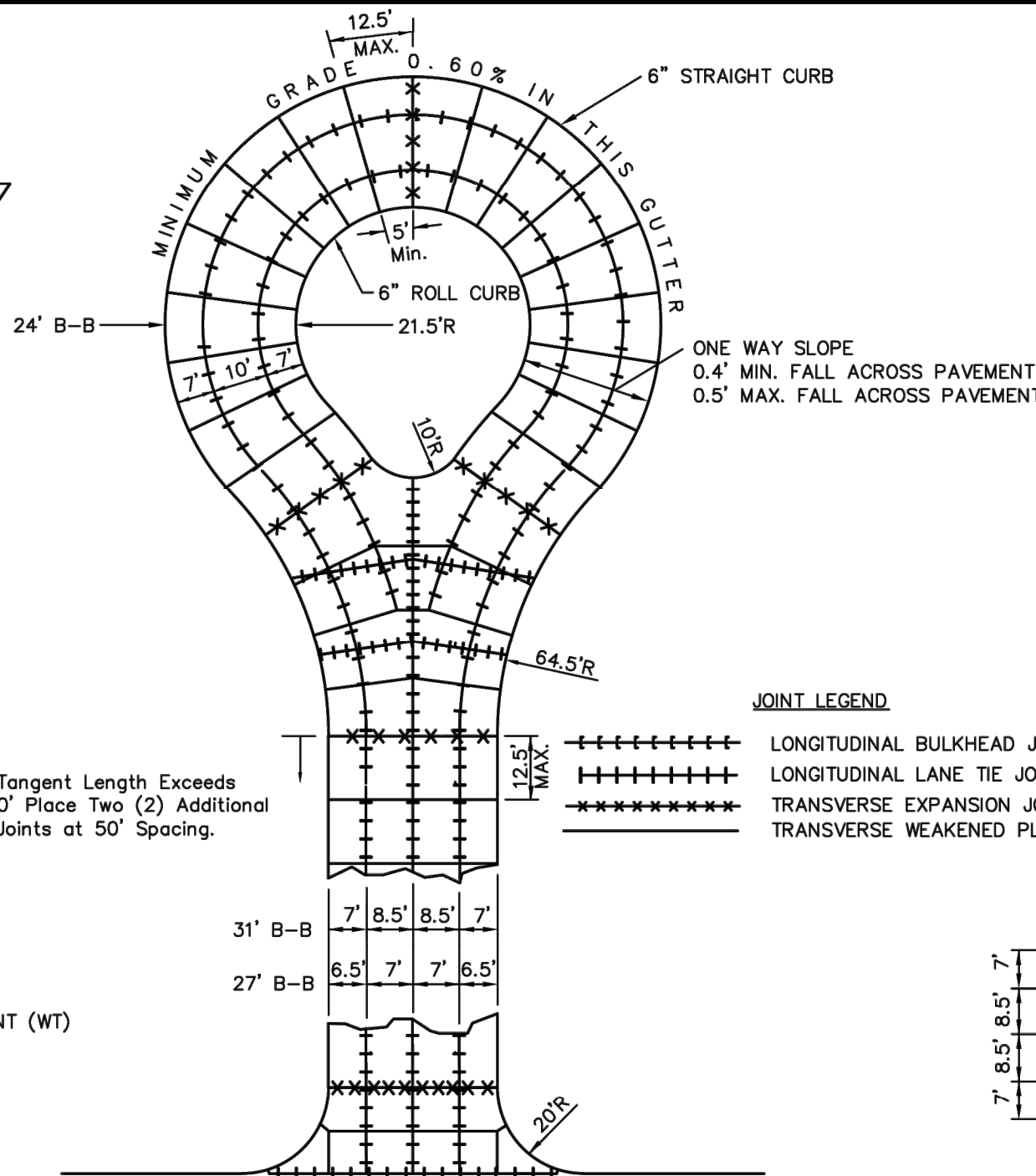
MOUNTABLE CURB AND GUTTER



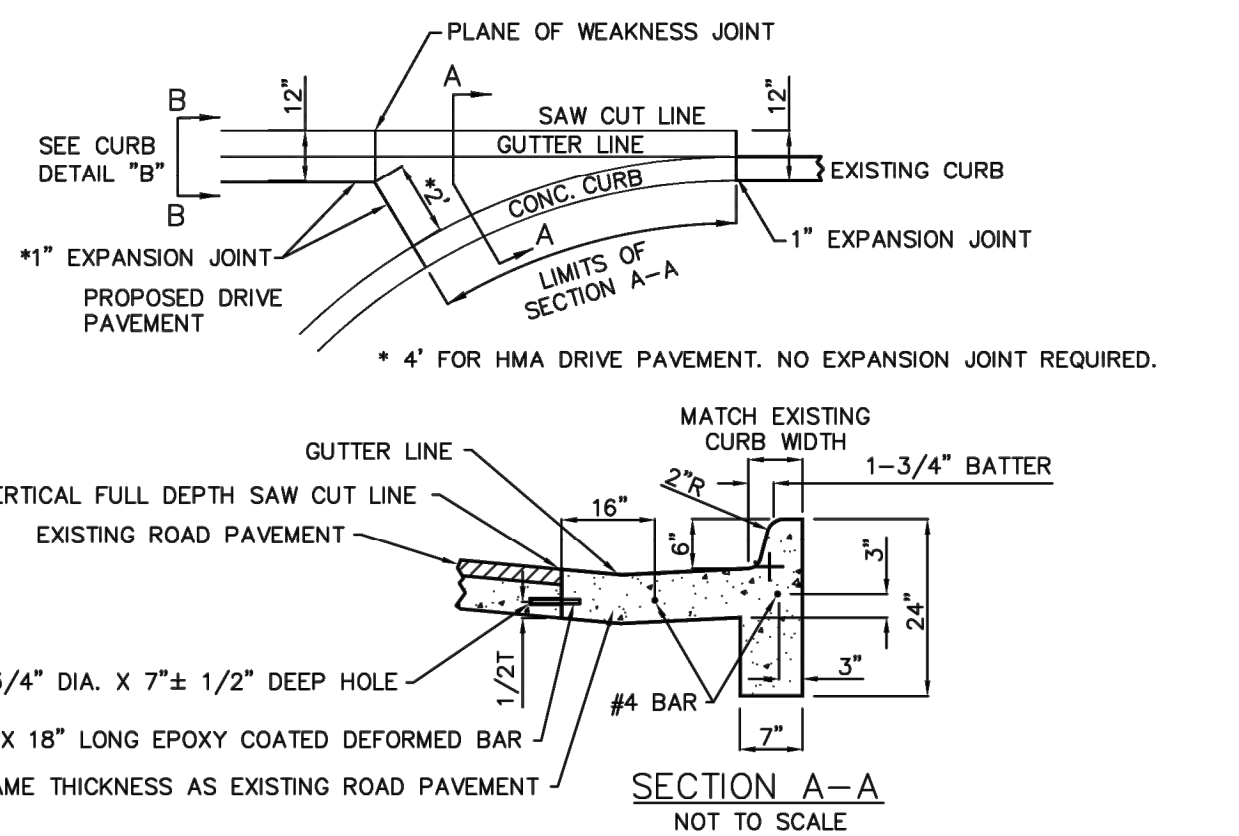
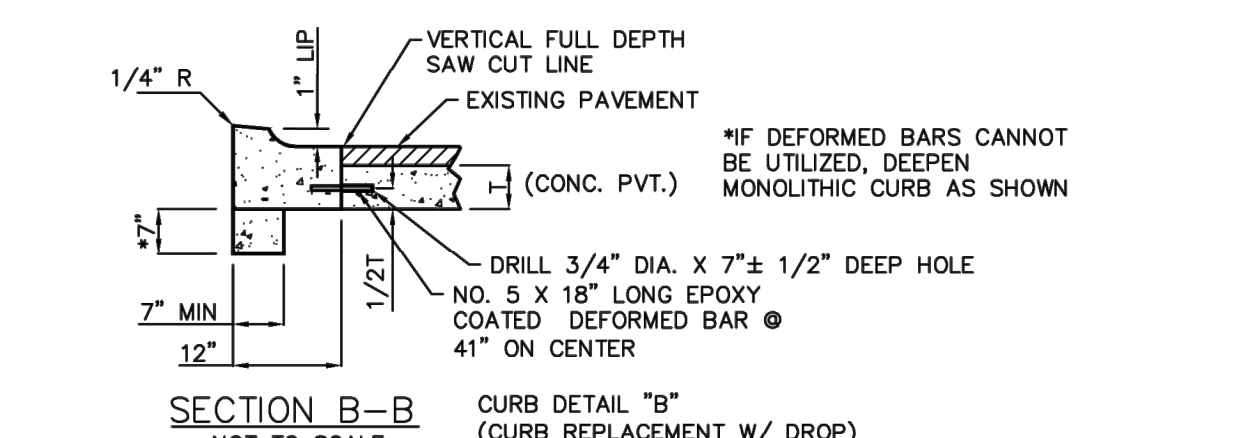
STRAIGHT CURB AND GUTTER



CURB AND GUTTER DETAILS



RESIDENTIAL CUL-DE-SAC JOINT LAYOUT DETAIL



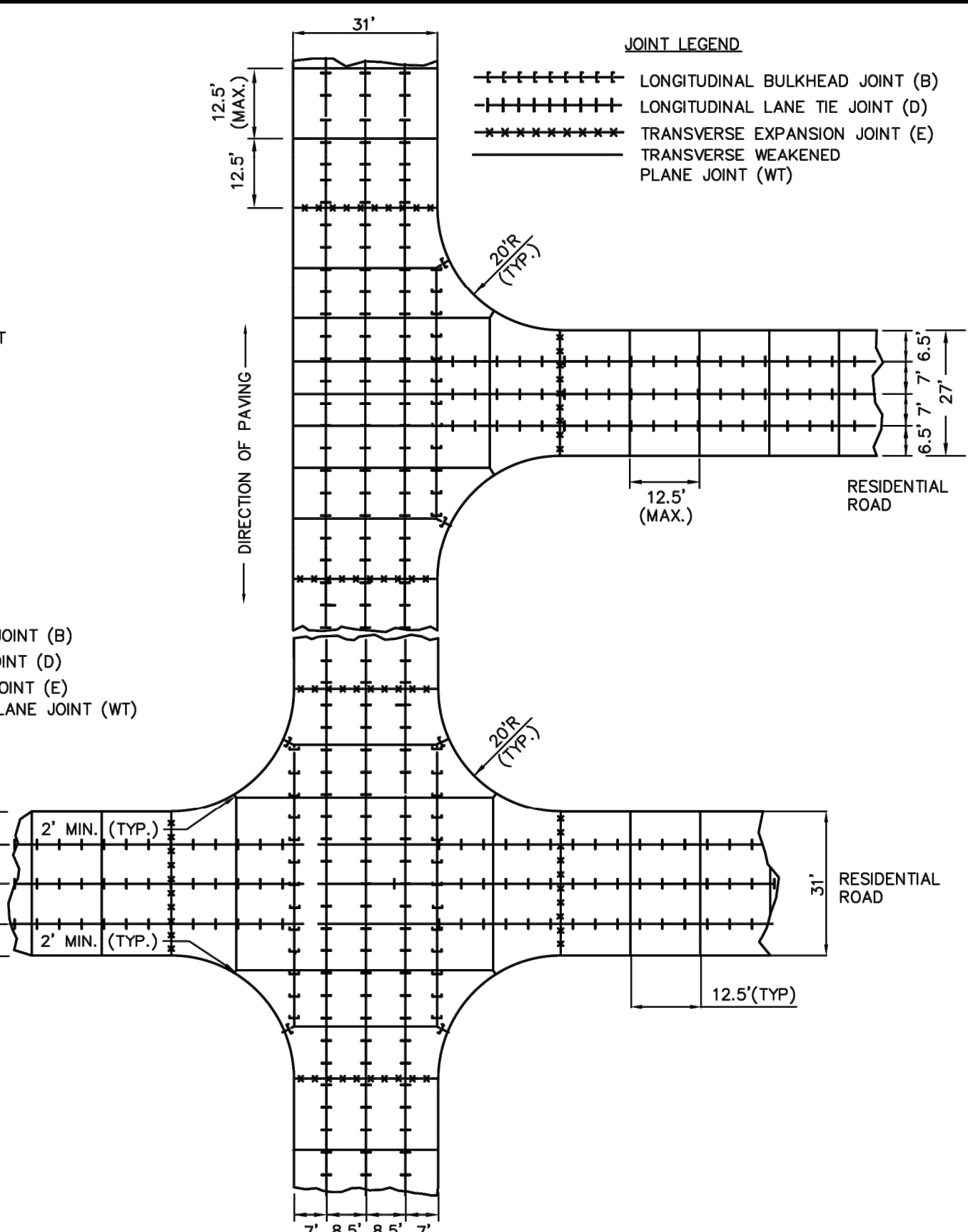
CURB RETURN JOINING EXISTING PAVEMENT

MAX. ALLOWABLE LANE TIE SPACING JOINTS B AND D		TOTAL DISTANCE OF TIED JOINT FROM NEAREST FREE EDGE**	
JOINT B GRADE 40	JOINT D GRADE 60		
2'-10"	3'-7"	12' OR LESS	
1'-11"	2'-7"	OVER 12' THROUGH 17'	
1'-5"	1'-11"	OVER 17' THROUGH 24'	
1'-2"	1'-9"	OVER 24' THROUGH 28'	
1'-2"	1'-4"	OVER 28' THROUGH 36'	
1'-1"	1'-1"	36' OR GREATER***	

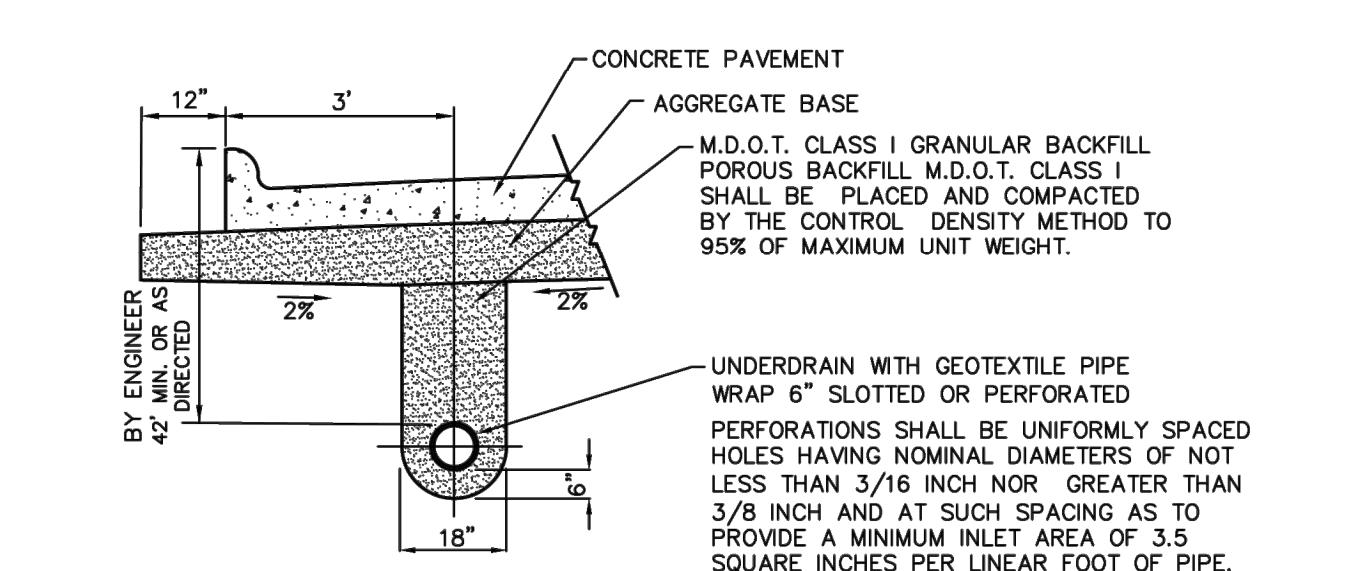
MAXIMUM ALLOWABLE LANE TIE SPACING CHART

1. ALL MATERIALS AND WORKMANSHIP FOR CONCRETE PAVEMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT MICHIGAN DEPARTMENT OF TRANSPORTATION (M.D.O.T.) STANDARD SPECIFICATIONS FOR CONSTRUCTION AS MODIFIED BY THE CITY ENGINEER.
2. ALL CONCRETE SHALL BE M.D.O.T. MIX P1, WITH A 28 DAY COMPRESSIVE STRENGTH OF AT LEAST 3500 P.S.I., A MINIMUM CEMENT CONTENT OF 5.6 SACKS WITH WATER REDUCING AGENT OR 6 SACK AIR ENTRAINMENT AT PLACEMENT SHALL BE 5-BY BY VOLUME, AND A SLUMP OF NOT MORE THAN 3-1/2" AND NOT LESS THAN 1-1/2".
3. ALL PAVEMENTS SHALL BE 27' OR 31' WIDE (BACK OF CURB TO BACK OF CURB) AND SHALL BE CONSTRUCTED OF 7" UNIFORM CONCRETE WITH A 6" INTEGRAL STRAIGHT CURB, EXCEPT WHERE SHOWN OTHERWISE ON THE PLANS. ALL INTERSECTIONS SHALL HAVE A MINIMUM RADIUS OF 20 FEET AND SHALL BE CONSTRUCTED OF 8" UNIFORM CONCRETE.
4. ELEVATIONS SHOWN ON THE PAVING PLAN ARE PROPOSED TOP OF CURB GRADES BASED UPON CURRENT WAYNE COUNTY DATUM. (U.S.C.&G.S.)

GENERAL NOTES



RESIDENTIAL INTERSECTION JOINT LAYOUT DETAILS

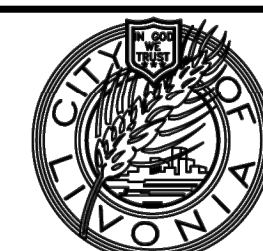


- UNDERDRAIN MATERIAL SHALL BE:
- HOPE MEETING ASTM 405 MATERIAL AND PERFORATION SPECIFICATION, TYPE SP (SMOOTH INNER WALL, PERFORATED) WITH FILTER,
 - OR PVC PIPE MEETING ASTM D 3034 MATERIAL AND PERFORATION SPECIFICATIONS WITH FILTER,
 - OR CORRUGATED STEEL PIPE WITH FILTER MEETING AASHTO M36, PERFORATIONS CONFORMING TO CLASS 1.
- CORRUGATED STEEL PIPE SHALL BE MANUFACTURED WITH STEEL SHEETS NOT LESS THAN 0.052 INCH THICKNESS FOR 6-INCH UNDERDRAINS OR 0.064 INCHES FOR 8-INCH.
- CONTRACTOR MAY FURNISH COUPLING BANDS THAT HAVE ENGINEERING APPROVED WEDGING, CLAMPING, OR OTHER FASTENERS INSTEAD OF BOLTS.

UNDERDRAIN DETAIL

Residential Street Concrete Pavement

JOB No. Conc-3	DATE: 2/25/11
REVISIONS:	REV. DATE SHEET 1 OF 3
Review Update	3/2012 CADD: dwl
6" Curb, 27" Pavement Details	1/2013 ENG: dwl
T Turn Around Revision	10/2013 PM: tz
	TECH: Concrete Paving Details.dwg
	FB#:



CITY OF LIVONIA
Department of Public Works - Engineering Division
33000 Civic Center Drive
Livonia, Michigan 48154
(734) 466-2570 Office, (734) 466-2195 Fax

RELEASED FOR :	DATE

NTH Consultants, Ltd.
Infrastructure Engineering
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
1-800-482-7171
For the location of public utility lines.
ALTERNATE NUMBER (811)
YOUR CODES FOR UTILITY LOCATING:
Yellow OIL & GAS Blue WATER
Orange PHONE & CABLE Green SEWER
Red ELECTRIC Pink GAS
If you are going to work near overhead wires - CALL MISS DIG



SEAL/STAMP:

REVISION BLOCK	
REV	DATE/DESCRIPTION

SUBMITTAL LOG	
DATE	PACKAGE NAME

PROJECT NAME:
**LIVONIA PUBLIC SCHOOLS
FORMER MARSHALL
ELEMENTARY SCHOOL
DEMOLITION**

PROJECT LOCATION:
**33901 CURTIS ROAD
LIVONIA, MICHIGAN 48152**

DESIGNED BY: SKG	NTH PROJECT NO.: 25002747
DRAWN BY: SKG	SHEET SIZE: ARCH D (24"x36")
CHECKED BY: MJT	DATE: 1/8/2026
CAD FILE NAME: 25002747-DET	

SHEET TITLE:
**CITY OF LIVONIA
STANDARD DETAILS
(SHEET 1 OF 2)**

SHEET NUMBER:
C-502

BID