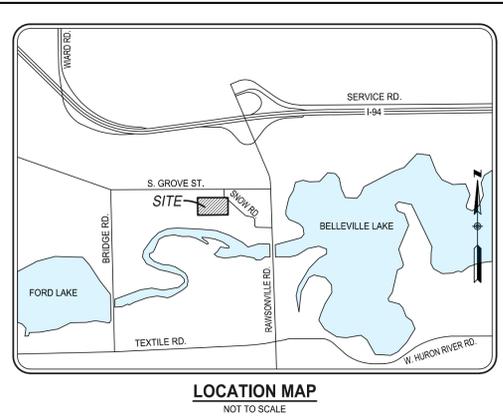
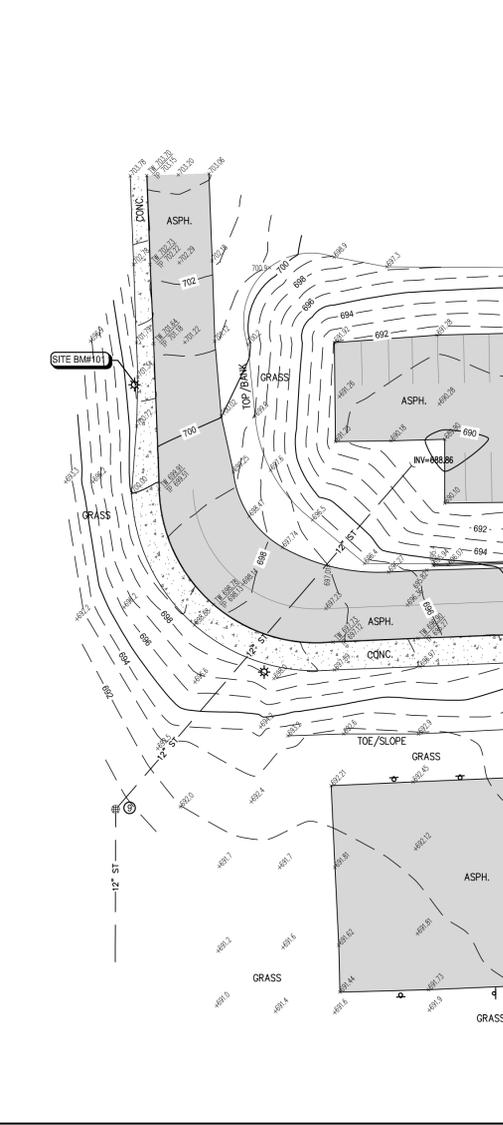


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BENCHMARK DESCRIPTIONS
 DATUM: GPS-DERIVED NAVD88
 SITE BM#100 CHISELED "X" ON NORTH SIDE OF CONCRETE LIGHT POLE BASE, LOCATED ±180' NORTH AND ±30' EAST OF THE NORTHEAST CORNER OF RAWSONVILLE ELEMENTARY SCHOOL. ELEV=700.87
 SITE BM#101 CHISELED "X" ON EAST SIDE OF CONCRETE LIGHT POLE BASE, LOCATED ±120' NORTH AND ±200' WEST OF THE NORTHWEST CORNER OF RAWSONVILLE ELEMENTARY SCHOOL. ELEV=703.02

LEGAL DESCRIPTION
 SOURCE: BS&A ONLINE
 OWNER: VAN BUREN PUBLIC SCHOOLS
 TAX PARCEL ID: K-11-24-182-001
 ADDRESS: 3110 GROVE ROAD
 COM AT N 1/4 POST OF SEC. TH S 1 DEG 39' E 1496.25 FT. TH S 89 DEG 17' 20" E 801.995 52 DEG 21' E 61.55 FT. TH S 1 DEG 36' 20" E 727.91 FT. TH N 89 DEG 17' 20" W 500.54 FT. TH N 1 DEG 56' 20" W 785 FT. PL. OF BEG. BEING A PART OF W 1/2 OF NE 1/4 SEC. 24 T3S R7E 8.187 AC.



STRUCTURE TABLE

THE STRUCTURE TABLE ON THIS DRAWING IDENTIFIES THE AS-SURVEYED UNDERGROUND UTILITY MANHOLES THAT WERE FIELD MEASURED USING REASONABLE AND TRADITIONAL SURVEYING PRACTICES. PIPE SIZES, DIRECTIONS AND ELEVATIONS ARE INDICATED BY A COMBINATION OF FIELD EVIDENCE AND AVAILABLE RECORD INFORMATION. UNDERGROUND UTILITY PIPE SIZES AND CONNECTIONS ARE MANY TIMES AMBIGUOUS. SOME STRUCTURES MAY HAVE PIPES WITH UNKNOWN CONNECTIONS, SIMPS AND / OR PIPES THAT ARE FILLED WITH DEBRIS. IT WILL BE UP TO THE DESIGN ENGINEER TO LOOK AT THE PRESENTED SURVEY RESULTS AND DECIDE IF FURTHER INVESTIGATION BY OTHER METHODS SUCH AS VACUUM CLEAN OUT, UNDERGROUND RADAR, SMOKE TESTING AND PHYSICAL EXCAVATION IS REQUIRED AS AN ADDITIONAL SERVICE.

#	TYPE	RM	SIZE	MTL	INVERT	DIRECTION	CONNECT
1	SANITARY MANHOLE	706.07	18"	RCP	687.82	NW	
					687.72	SE	
2	GATE VALVE & WELL	705.82				NW / SE	
	TOP / PIPE	696.72					
	TOP / WATER	686.12					
	BOTTOM	694.72					
3	SQUARE CATCH BASIN	697.45	12"	RCP	691.85	WEST	4
	TOP / WATER	691.65					
4	SQUARE CATCH BASIN	693.54	12"	RCP	688.79	EAST	3
	TOP / WATER	688.64				WEST	7
	TOP / DEBRIS	688.54					
5	SANITARY MANHOLE	691.70	18"	RCP	673.85	WEST	6
					673.75	EAST	
6	SANITARY MANHOLE	694.28	18"	RCP	674.33	SOUTH	
					674.18	EAST	5
7	SQUARE CATCH BASIN	690.93	12"	RCP	686.38	EAST	4
	TOP / WATER	686.23				WSW	
	TOP / DEBRIS	684.93					
8	BEE-HIVE CATCH BASIN	691.66	6"	PVC	689.16	EAST	
					687.16	NW	
9	ROUND CATCH BASIN	690.57	12"	CPP	687.32	SOUTH	
					687.32	NE	
10	STORM MANHOLE	692.24					
	TOP / WATER	686.64					
	BOTTOM	686.24					
11	STORM MANHOLE	692.29	12"	CPP	686.19	SOUTH	
	TOP / WATER	686.79					
	BOTTOM	684.79					

SURVEY NOTES
 1. TOPOGRAPHIC AND/OR BOUNDARY SURVEY, INCLUDING PROPERTY LINES, LEGAL DESCRIPTION, EXISTING UTILITIES, SITE TOPOGRAPHY WITH SPOT ELEVATIONS, OUTSTANDING PHYSICAL FEATURES AND EXISTING STRUCTURE LOCATIONS MAY BE BASED ON RECORD DATA NOT MEASURED IN THE FIELD.
 2. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL INFORMATION SHOWN ON THIS SURVEY AND NOTIFYING THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 3. CONTRACTOR SHALL UTILIZE A PRIVATE UTILITY LOCATOR TO STAKE PUBLIC AND PRIVATE UTILITY LOCATIONS PRIOR TO START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY, AT NO COST TO THE PROJECT, TO REPAIR OR REPLACE ANY DAMAGE CAUSED TO EXISTING UTILITIES.
 4. CONTRACTOR SHALL CONTACT MISS DIG (811) THREE WORKING DAYS PRIOR TO THE START OF CONSTRUCTION FOR STAKING OF UTILITIES.

OWNER
 VAN BUREN PUBLIC SCHOOLS
 555 W. COLUMBIA AVE.
 BELLEVILLE, MI 48111
 PHONE: (734) 697-9123
 FAX: (734) 697-6385

SURVEYOR'S COMMENTS

- THIS TOPOGRAPHICAL MAP IS BASED UPON A FIELD SURVEY PERFORMED BY SPALDING DEDECKER INC. DURING FEBRUARY OF 2023.
- THE LEGAL DESCRIPTION FROM BS&A ONLINE DOES NOT MATHEMATICALLY CLOSE. THERE APPEAR TO BE MISSING CALLS IN THE DESCRIPTION. FROM RESEARCH OF SURROUNDING PARCELS, IT SEEMS THE PROPERTY LINE GOES TO THE CENTERLINE OF SNOW ROAD, BUT WE ARE UNCERTAIN. A TITLE SEARCH MAY HELP WITH THE BOUNDARY ISSUE.
- THIS SURVEY HAS BEEN PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE SEARCH THAT WOULD IDENTIFY ANY RECORDED EASEMENTS THAT ENCUMBER THIS PROPERTY. THEREFORE, THIS PROPERTY MAY BE SUBJECT TO EASEMENTS, RIGHT-OF-WAY TAKINGS AND RESTRICTIVE COVENANTS THAT ARE NOT SHOWN.
- THE BASIS OF BEARINGS IS THE STATE PLANE GRID.
- THE COORDINATE SYSTEM FOR THIS SURVEY IS THE STATE PLANE COORDINATE SYSTEM, MICHIGAN SOUTH ZONE (2113), BASED ON NAD83 (NSRS2011). UNITS ARE INTERNATIONAL FEET. COORDINATES WERE ESTABLISHED USING A DATA LINK TO THE MDOOT CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS).
- THE VERTICAL DATUM OF THIS SURVEY IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88) AS ESTABLISHED WITH RTK GPS MEASUREMENTS USING A DATA LINK TO THE MDOOT CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS).
- THE PARKING LOT STRIPING SHOWN ON THIS SURVEY IS APPROXIMATE. DIMENSIONAL AND/OR ORIENTATION VARIATIONS MAY EXIST. THIS DRAWING SHOULD NOT BE USED FOR A PARKING SPACE COUNT.
- THE UTILITY INFORMATION SHOWN ON THIS SURVEY IS BASED UPON A COMBINATION OF RECORD INFORMATION AND FIELD MEASUREMENTS. A MISS DIG DESIGN TICKET NUMBER OF 202302070000 HAS BEEN REFERENCED TO THIS PROJECT AND A UTILITY PROVIDER CHART IS SHOWN ON THIS DRAWING. THERE ARE NO ASSURANCES THAT ALL PROVIDERS HAVE RESPONDED AND THE SURVEYOR DOES NOT GUARANTEE THAT ALL UNDERGROUND UTILITIES ARE SHOWN AND/OR POSITIONED PROPERLY ON THIS DRAWING DUE TO AMBIGUOUS PLANS AND RECORDS PROVIDED TO US. THE INFORMATION SHOWN ON THIS DRAWING IS INTENDED TO BE USED AS A GUIDE FOR POSSIBLE UNDERGROUND UTILITY CONFLICTS. IT IS THE RESPONSIBILITY OF OTHERS TO RESOLVE THE ACTUAL LOCATION OF ANY UNDERGROUND UTILITY THROUGH THE MISS DIG FIELD VERIFICATION SYSTEM PRIOR TO ANY SITE EXCAVATION. CALL 811 OR 800-482-7171.

SHEET INDEX
 C1.1 - TOPOGRAPHICAL SURVEY
 C2.1 - DEMOLITION PLAN
 C3.1 - PAVING AND LAYOUT PLAN
 C4.1 - GRADING PLAN
 C5.1 - SOIL EROSION AND SEDIMENTATION CONTROL PLAN

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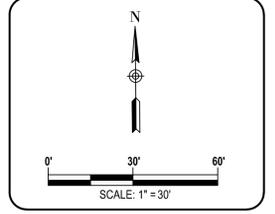
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 Detroit, MI 48202
 Phone (313) 305-9120

27333 Meadowbrook Rd., Suite 210
 Novi, MI 48377
 Phone (248) 844-6274

400 Ann St. NW, Suite 204
 Grand Rapids, MI 49504
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UTILITY NOTE
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VAN BUREN PUBLIC SCHOOLS
RAWSONVILLE ELEMENTARY
CONCRETE IMPROVEMENTS

TOPOGRAPHICAL SURVEY

SECTION 24
 TOWN 03 SOUTH RANGE 07 EAST
 YPSILANTI CHARTER TWP.
 WASHTENAW COUNTY, MICHIGAN

NO.	DATE	REVISION
1	03-17-23	OWNER REVIEW
2	03-31-23	BIDS

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 ADJUST SCALES ACCORDINGLY

DRAFTER	DATE
S. BROWN	03-10-23
CHECKED	DATE
K. SIROIS	03-10-23
FIELD LEADER	PROJECT SURVEYOR
S. MAYER	D. JACKSON
PROJECT MANAGER	DEPARTMENT MANAGER
D. JACKSON	G. PLATZ
JOB NO.	DRAWING NO.
NP22157TPG	NP22157TPG-DV
SCALE:	SHEET NO.
1" = 30'	C1.1

UTILITY CHART

UTILITY PROVIDER	CONTACT #	MISS DIG RESULTS	DATE
AT&T TELEPHONE	(800) 778-6140	RECEIVED	2/13/2023
COMCAST CABLE TV	(855) 962-4525	RECEIVED	2/16/2023
COMCAST FIBER OPTICS	(855) 962-4525	RECEIVED	2/16/2023
DTE ENERGY (ELECTRIC) ELECTRIC	(313) 407-5364	RECEIVED	2/21/2023
DTE ENERGY (GAS) GAS	(248) 318-7839	RECEIVED	2/21/2023
ENBRIDGE GAS TRANSMISSION PIPELINE	(800) 858-5253	NOT RECEIVED	
WASHTENAW COUNTY ROAD COMMISSION ELECTRIC	(734) 327-6671	NOT RECEIVED	
YPSILANTI COMMUNITY UTILITIES AUTHORITY POTABLE WATER	(734) 323-1699	RECEIVED	2/21/2023
YPSILANTI COMMUNITY UTILITIES AUTHORITY SANITARY SEWER	(734) 323-1699	RECEIVED	2/21/2023

DEMOLITION NOTES

1 REMOVE ASPHALT PAVEMENT TO FULL DEPTH. SAWCUT FULL DEPTH WHERE NEW PAVEMENT WILL BE PLACED ADJACENT TO EXISTING PAVEMENT. EXCAVATE EXISTING AGGREGATE BASE AND SUBGRADE AS NECESSARY TO INSTALL NEW PAVEMENT SECTION AS SHOWN ON THE PAVING PLANS, INCLUDING NEW AGGREGATE BASE.

2 REMOVE CONCRETE PAVEMENT TO FULL DEPTH. SAWCUT FULL DEPTH TO NEAREST JOINT WHERE NEW PAVEMENT WILL BE PLACED ADJACENT TO EXISTING PAVEMENT.

3 PROTECT EXISTING SUPPORTED SLAB TO REMAIN.

4 REMOVE EXISTING SUPPORTED SLAB CAP. PROTECT EXISTING FOUNDATION TO REMAIN.

5 PROTECT EXISTING BRICK COLUMN TO REMAIN.

6 PROTECT EXISTING FLAG POLE TO REMAIN.

7 SALVAGE EXISTING BIKE RACK AND RE-INSTALL UPON COMPLETION.

8 PROTECT EXISTING UTILITIES AND UTILITY STRUCTURES TO REMAIN.

9 PROTECT EXISTING TREES AND LANDSCAPING TO REMAIN DURING CONSTRUCTION.

10 PROTECT EXISTING LIBRARY BOX TO REMAIN OR REMOVE, SALVAGE AND REINSTALL TO HELP FACILITATE WORK.

11 PROTECT EXISTING LIGHT POLE TO REMAIN.

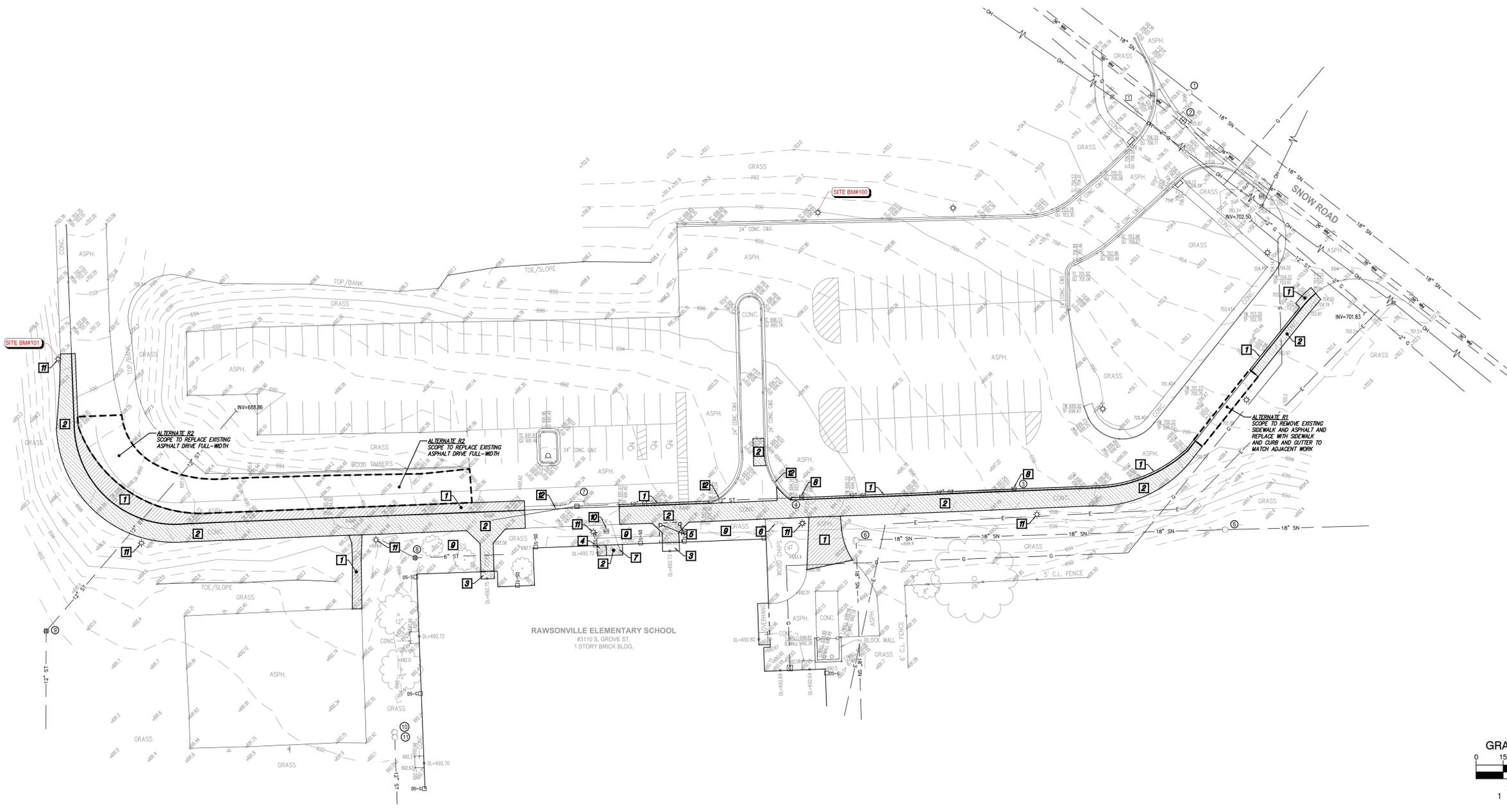
12 PROTECT EXISTING CONCRETE CURB TO REMAIN.

EXISTING SIGNAGE AND MAILBOXES WITHIN THE CLEARING LIMITS ARE TO BE REMOVED AND SALVAGED. STAGE IN ON SITE LOCATION AS SPECIFIED BY OWNER.

ALL DEPRESSIONS CREATED BY DEMOLITION PROCEDURES SHALL BE BACKFILLED WITH CLASS 1 FILL MATERIAL IN 6" LIFTS COMPACTED TO 95% OF MAXIMUM UNIT WEIGHT, UP TO PROPOSED SUBGRADE.

CONTRACTOR IS RESPONSIBLE FOR DOING AN EARTHWORK CALCULATION FOR CUT AND FILL REQUIREMENTS, AND IS RESPONSIBLE FOR INCLUDING IMPORT AND EXPORT OF MATERIALS IN THEIR BID. ALL EXCESS MATERIAL (INCLUDING TOPSOIL, CLEAN FILL, AND WASTE MATERIAL) SHALL BE REMOVED FROM THE SITE.

CONTRACTOR TO PROTECT EXISTING WALKS, PAVEMENT, CURBS, GUTTERS, WALLS, FENCES, GATES, LANDSCAPING AND TREES TO REMAIN DURING CONSTRUCTION.



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**VAN BUREN PUBLIC SCHOOLS
 RAWSONVILLE ELEMENTARY
 CONCRETE IMPROVEMENTS**

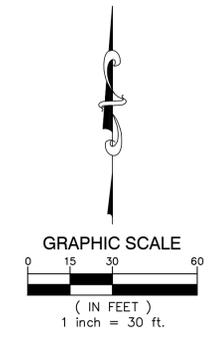
DEMOLITION PLAN

SECTION 24
 TOWN 03 SOUTH RANGE 07 EAST
 YPSILANTI CHARTER TWP.
 WASHTENAW COUNTY, MICHIGAN

NO.	DATE	REVISION
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2	03-31-23	BIDS

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DRAWN BY	DATE
L. CHUEY	03-15-23
DESIGNER	DATE
J. ENSLEY	03-15-23
CHECKED	DATE
J. ENSLEY	
PROJECT MANAGER	BID PLAN DATE
T. SOVEL	
DEPARTMENT MANAGER APPROVAL	DATE
T. SOVEL	
JOB NO.	DRAWING NO.
NP22157	NP22157DEM
SCALE:	SHEET NO.
1" = 30'	C2.1



GRADING LEGEND

---	EXISTING ELEVATION
• TC 000.00	PROPOSED TOP OF CURB ELEVATION
• G 000.00	PROPOSED GUTTER ELEVATION
• OG 000.00	OUTSIDE GRADE ELEVATION
---	EXISTING CONTOURS
---	PROPOSED CONTOURS
• TP 000.00	TOP OF PAVEMENT ELEVATION
• TW 000.00	TOP OF WALK ELEVATION
• FG 000.00	FINISH GRADE ELEVATION
• T/WALL 000.00	TOP OF WALL ELEVATION
• ME 000.00	MATCH EXISTING ELEVATION
→	FLOW ARROW

LEGEND

---	PROPOSED WATERMAIN	●	PROPOSED SAN MANHOLE (SAN)
---	PROPOSED SANITARY	●	PROPOSED STORM MANHOLE (SM)
---	PROPOSED STORM SEWER	■	PROPOSED CATCH BASIN (CB)
---	PROPOSED GAS MAIN	■	PROPOSED INLET (NL)
---	PROPOSED ELECTRIC	▶	PROPOSED END SECTION (ES)
●	PROPOSED HYDRANT	⊕	PROPOSED FIELD CATCH BASIN (FCB) W/ REINFORCED COVER OR STANPOPE (SP) W/ BAY GRATE COVER
⊕	PROPOSED GATE VALVE & WELL (GVW)	②	UTILITY CROSSING (SEE DATA TABLE)
⊕	PROPOSED TAPPING SLEEVE VALVE & WELL (TSVW)	CB	STRUCT. TYPE
		2	STRUCT. NO.
▨	STANDARD BITUMINOUS PAVEMENT	20	
▨	HEAVY-DUTY BITUMINOUS PAVEMENT	10	STRUCT. NO.
▨	DEEP-STRENGTH BITUMINOUS PAVEMENT	XXX	STRUCT. TYPE
▨	CONCRETE PAVEMENT		
▨	CONCRETE SIDEWALK		
▨	MILL PAVEMENT		
---	STORM SEWER STRUCTURE		
---	SANITARY SEWER STRUCTURE		
---	WATERMAIN STRUCTURE		

GRADING NOTES

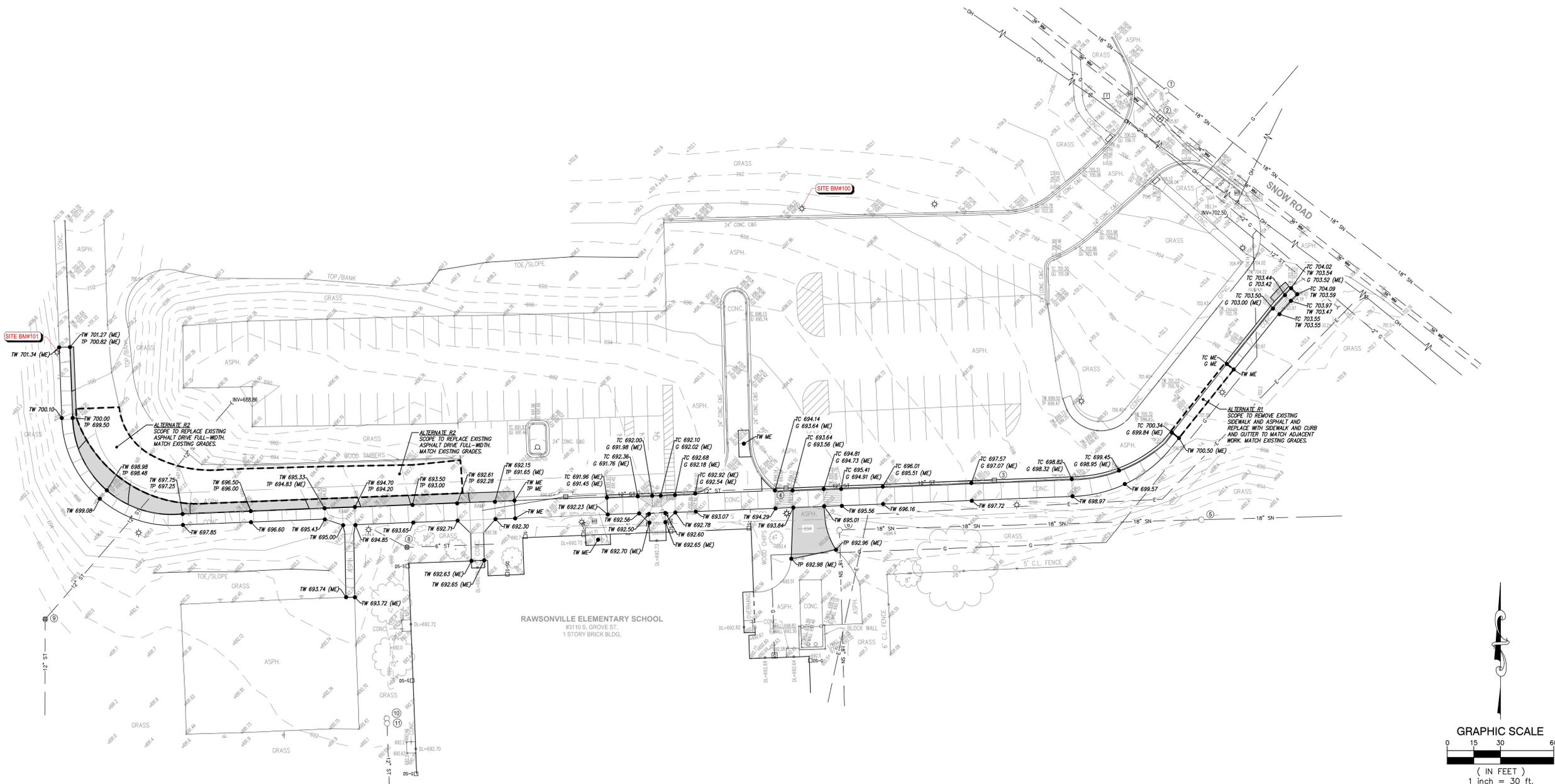
- CONTRACTOR TO PLACE ALL NEW PAVEMENT TO THE GRADES INDICATED, OR MATCH ORIGINAL GRADES IF NEW GRADES ARE NOT SHOWN. CONTRACTOR SHALL CONFIRM MINIMUM 1% PAVEMENT SLOPES ARE ATTAINED IN ALL AREAS.
- PROPOSED GRADES MAY BE BASED ON AN INTERPOLATION OF DATA SHOWN ON THE TOPOGRAPHIC SURVEY. THIS INTERPOLATED DATA IS APPROXIMATE AND COULD DIFFER SLIGHTLY BASED ON THE ACCURACY OF THE SURVEY. CONTRACTOR SHALL CONFIRM THAT THE PROPOSED GRADES SHOWN ON THIS PLAN WILL NOT CREATE A STANDING WATER CONDITION (I.E. A LOW SPOT OR PAVEMENT SLOPES LESS THAN 1%) OR AN UNSAFE CONDITION WITH SLOPES IN EXCESS OF 5%. CONTRACTOR SHALL NOTIFY ENGINEERS IMMEDIATELY IF THEY BELIEVE THAT ONE OF THESE SITUATIONS WILL OCCUR BASED ON THE PROPOSED GRADES.
- ALL HANDICAP RAMP AND ADA ACCESSIBLE ROUTES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF MDT DETAIL R-28 "SIDEWALK RAMP AND DETECTABLE WARNING DETAILS".
- CONTRACTOR IS RESPONSIBLE FOR CONTROLLING STORM WATER RUNOFF DURING CONSTRUCTION OPERATIONS OF PARTICULAR CONCERN WILL BE THE TIME PERIOD AFTER THE SITE HAS BEEN STRIPPED AND NOT YET RESTORED, BUILT UPON, OR PAVED. CONTRACTOR MUST INSTALL OR CONSTRUCT APPROPRIATE TEMPORARY MEASURES TO PROTECT ADJACENT PROPERTIES.

RESTORATION NOTE

RESTORE ALL DISTURBED NON-PAVED LAWN AREAS WITH 3" OF CLEAN TOPSOIL AND SEED MIX (30% KENTUCKY BLUEGRASS, 20% PERENNIAL RYEGRASS, 50% CREEPING RED FESCUE). PLACE MULCH IN ALL SEEDING AREAS. ON SLOPES IN EXCESS OF 10 HORIZONTAL TO 1 VERTICAL PLACE NORTH AMERICAN GREEN DS150 MULCH BLANKET IMMEDIATELY AFTER SEEDING. USE METAL STAPLES PER MANUFACTURERS RECOMMENDATIONS TO HOLD MATING IN PLACE.

LAWN RE-GRADING

WHERE SIDEWALK REPLACEMENT IS ADJACENT TO LAWN, RE-GRADE AND RESTORE LAWN AS NECESSARY TO BLEND GRADES AND PROVIDE POSITIVE DRAINAGE. CONTRACTOR TO FIELD VERIFY LIMITS.



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**VAN BUREN PUBLIC SCHOOLS
 RAWSONVILLE ELEMENTARY
 CONCRETE IMPROVEMENTS**

GRADING PLAN

SECTION 24
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 WASHTENAW COUNTY, MICHIGAN

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CHECKED	DATE
J. ENSLEY	
PROJECT MANAGER	BID PLAN DATE
T. SOVEL	
DEPARTMENT MANAGER APPROVAL	DATE
T. SOVEL	
JOB NO.	DRAWING NO.
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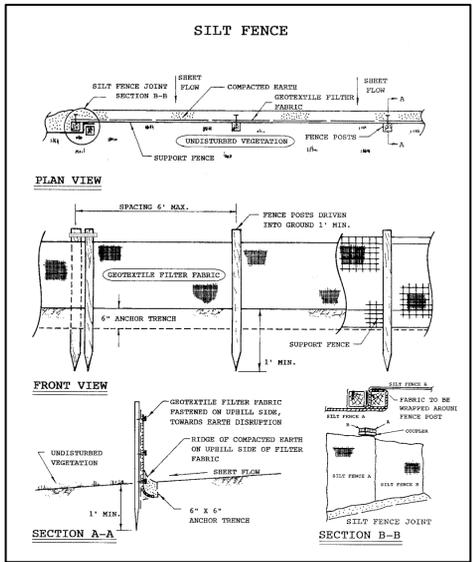
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- PERMEABILITY OF 200 GPM/SF (16-Flow style)
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LEGEND

- PROPOSED WATERMAIN
- PROPOSED SANITARY
- PROPOSED STORM SEWER
- PROPOSED GAS MAIN
- PROPOSED ELECTRIC
- PROPOSED HYDRANT
- PROPOSED GATE VALVE & WELL (GVW)
- PROPOSED TAPPING SLEEVE, VALVE & WELL (TSVW)
- PROPOSED SAN MANHOLE (SAN)
- PROPOSED STORM MANHOLE (SM)
- PROPOSED CATCH BASIN (CB)
- PROPOSED INLET (NL)
- PROPOSED END SECTION (ES)
- PROPOSED FIELD CATCH BASIN (FCB) W/ BENCH COVER OR STANDPIPE (SP) W/ BAR GRATE COVER
- UTILITY CROSSING (SEE DATA TABLE)
- STORM SEWER STRUCTURE
- SANITARY SEWER STRUCTURE
- WATERMAIN STRUCTURE
- STANDARD BITUMINOUS PAVEMENT
- HEAVY-DUTY BITUMINOUS PAVEMENT
- DEEP-STRENGTH BITUMINOUS PAVEMENT
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- MILL PAVEMENT
- STRUCT. TYPE
- STRUCT. NO.
- STRUCT. NO.
- STRUCT. NO.

SITE NOTES:
APPROX. GROSS ACREAGE DISTURBED = 0.21± ACRES
DISTANCE TO NEAREST BODY OF WATER = 330± LF (HURON RIVER)
THEREFORE, A SOIL EROSION PERMIT IS NOT REQUIRED.

SOIL TYPES:
BnB - BAYER LOAMY SAND, 1 TO 6 PERCENT SLOPES

THIS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF ACT 451 OF 1994, AS AMENDED, THE SOIL EROSION AND SEDIMENT CONTROL ACT.

SOIL EROSION CONTROL DEVICES

- CATCH BASIN FILTER BAG (SILT SACK OR EQUIVALENT)
- 24" SILT FENCE

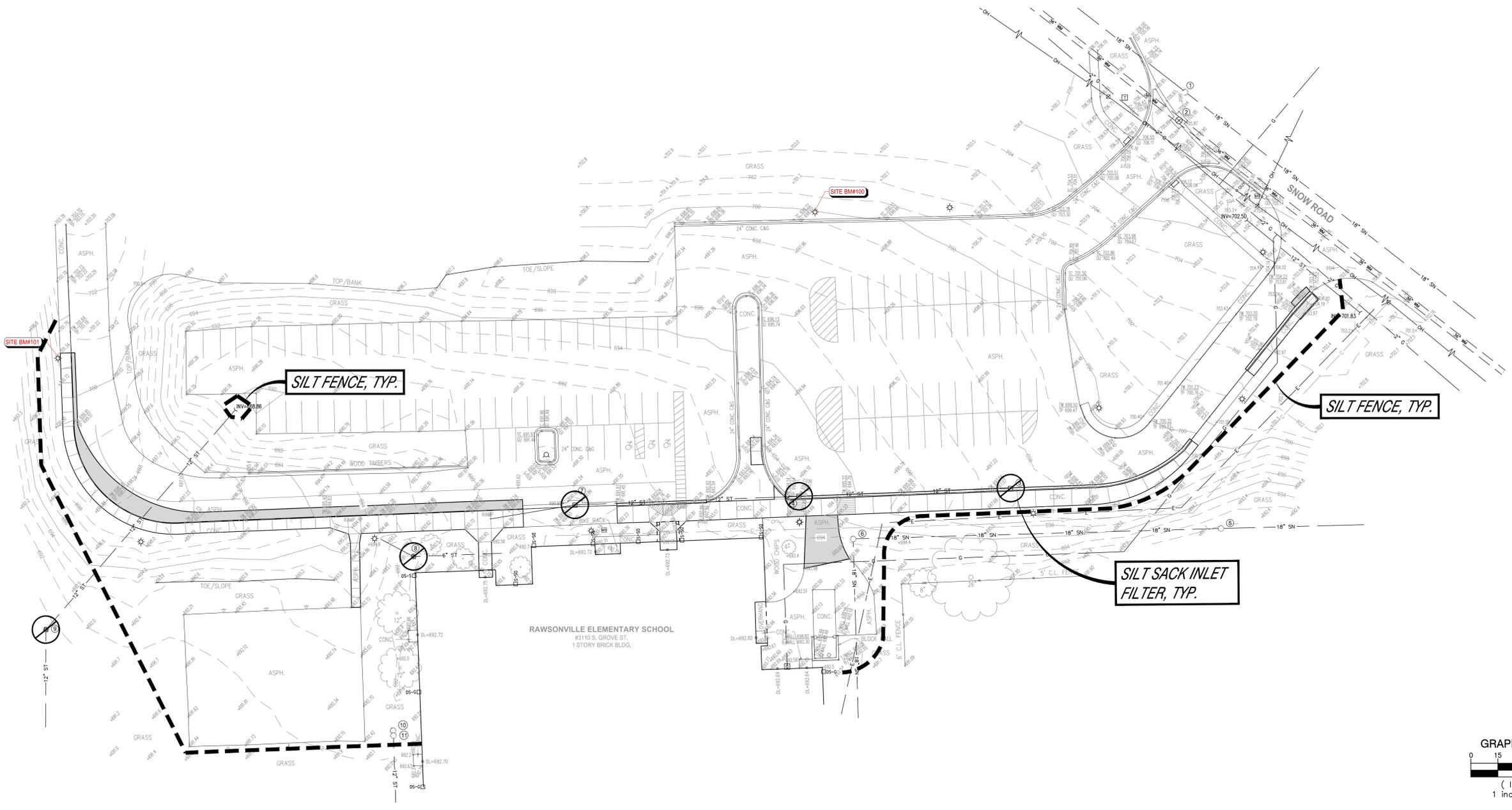
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Fax (248) 844-5404

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Detroit, MI 48202
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Fax (313) 305-9121

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Novi, MI 48377
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**SOIL EROSION AND
SEDIMENTATION CONTROL
PLAN**

SECTION 24
TOWN 03 SOUTH RANGE 07 EAST
YPSILANTI CHARTER TWP.
WASHTENAW COUNTY, MICHIGAN

NO.	DATE	REVISION
1	03-17-23	OWNER REVIEW
2	03-31-23	BIDS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

DRAWN BY	DATE
L. CHUEY	03-15-23
DESIGNER	DATE
J. ENSLEY	03-15-23
CHECKED	DATE
J. ENSLEY	
PROJECT MANAGER	BID PLAN DATE
T. SOVEL	
DEPARTMENT MANAGER APPROVAL	DATE
T. SOVEL	
JOB NO.	DRAWING NO.
NP22157	NP22157SEC
SCALE:	SHEET NO.
1" = 30'	C5.1

