

11/2/2020 10:45 AM katherine.pleminger

PLANS	SHEET NUMBERS
TITLE	1
LEGEND	2
NOTE SHEET	3
MISCELLANEOUS DETAILS	4
CONSTRUCTION SHEETS HURDS CORNER ROAD	5-33
CONSTRUCTION SHEETS BIRCH RUN ROAD	34-39
CONSTRUCTION SHEETS CEMETERY ROAD	40-43
CONSTRUCTION SHEETS RIVER ROAD	44-47
CONSTRUCTION SHEETS MILLINGTON ROAD	48-51
CONSTRUCTION SHEETS VASSAR ROAD	52-54
SIGNING SHEETS	55-56

TUSCOLA COUNTY ROAD COMMISSION

IN COOPERATION WITH

MICHIGAN DEPARTMENT OF TRANSPORTATION AND FEDERAL HIGHWAY ADMINISTRATION

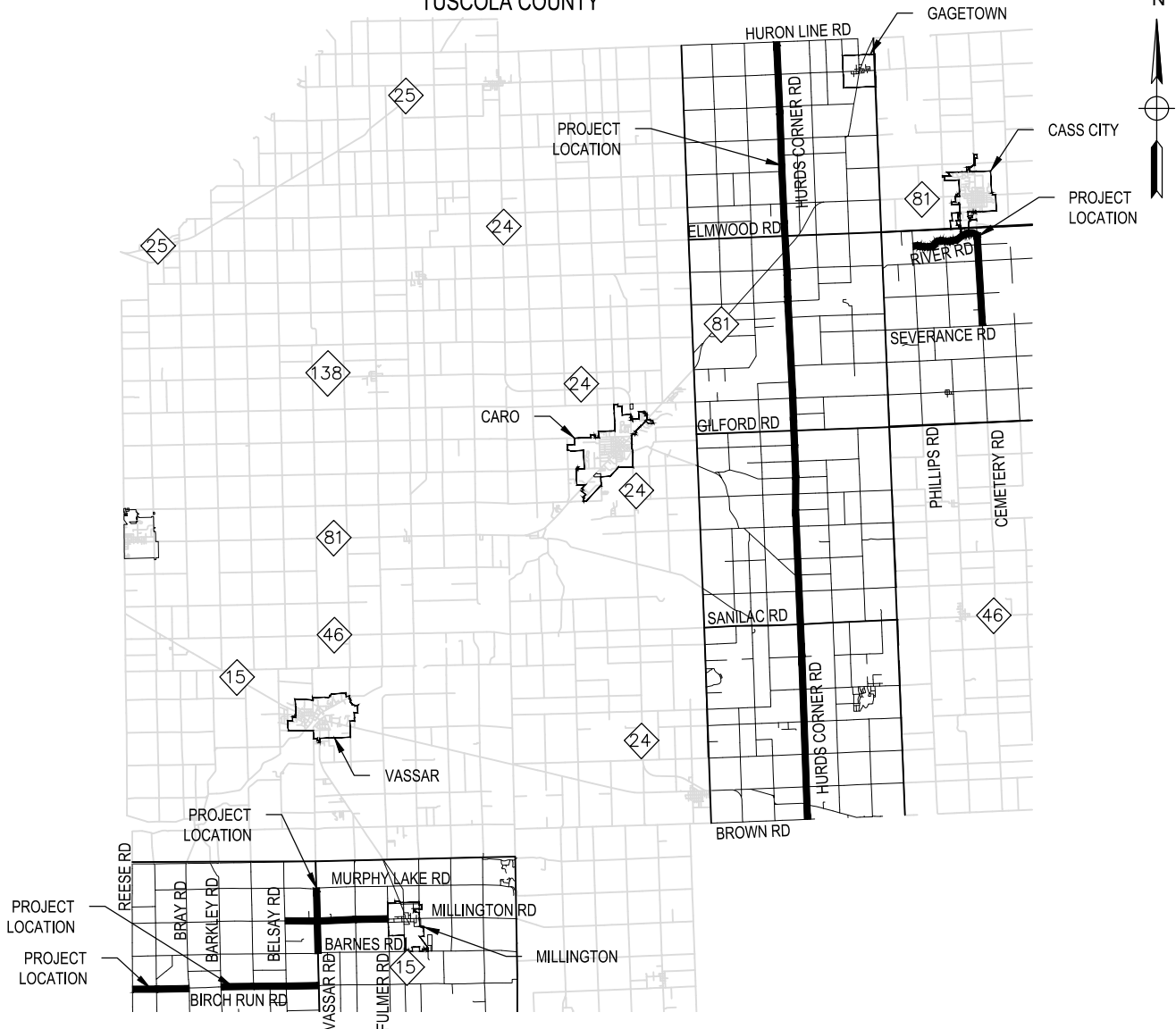
PLANS OF PROPOSED

CONTROL SECTION: 79000

JOB NUMBER: 210364

2021 FIXED OBJECT REMOVAL

ARBELA, MILLINGTON, NOVESTA, DAYTON, WELLS, ELLINGTON AND ELMWOOD TOWNSHIPS
TUSCOLA COUNTY



MDOT ROAD STANDARD PLANS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON PLANS. THEY ARE TO BE CONSTRUCTED ACCORDING TO THE MDOT STANDARD PLAN GIVEN BELOW OPPOSITE EACH ITEM UNLESS OTHERWISE INDICATED.

DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALKS	R-29-I
BUMPER & PARKING RAILS AND MISC. WOOD POSTS	R-74-D
GRANULAR BLANKET, UNDERDRAINS, OUTLET ENDINGS	R-80-E
FOR UNDERDRAINS, AND SEWER BULKHEADS	
BEDDING AND FILLING AROUND PIPE CULVERTS	R-82-D
UTILITY TRENCHES	R-83-C
PRECAST CONCRETE END SECTION FOR PIPE CULVERT	R-86-F
STEEL END SECTION	R-88-D
CULVERT SLOPED END SECTION	R-95-G
SOIL EROSION & SEDIMENTATION CONTROL MEASURES	R-96-E
SEEDING AND TREE PLANTING	R-100-H

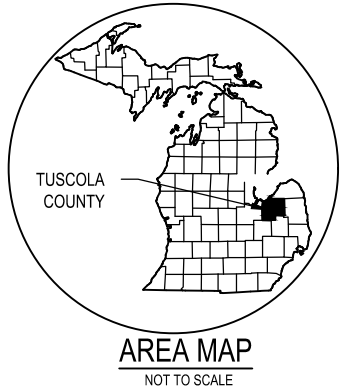
*SPECIAL DETAILS INCLUDED IN PROPOSAL

MDOT TRAFFIC AND SAFETY STANDARD PLANS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON PLANS. THEY ARE TO BE CONSTRUCTED ACCORDING TO THE MDOT STANDARD PLAN GIVEN BELOW OPPOSITE EACH ITEM UNLESS OTHERWISE INDICATED.

ROADSIDE SIGN LOCATIONS AND SUPPORT SPACING	SIGN-120-E
STEEL POSTS	SIGN-200-E
GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS	WZD-100-A*
TEMPORARY TRAFFIC CONTROL DEVICES	WZD-125-E*

*SPECIAL DETAILS INCLUDED IN PROPOSAL



TRAFFIC DATA

ROAD NAME	PRESENT ADT (2021)	FUTURE ADT (2031)	POSTED SPEED	DESIGN SPEED	% COMMERCIAL
BIRCH RUN	6058	6058	55	60	9%
MILLINGTON	2258	2258	55	60	9%
VASSAR	1340	1340	55	60	9%
CEMETERY	2048	2048	55	60	9%
RIVER	486	486	55	60	3%
HURDS CORNER	3888	3888	55	60	9%

THE DESIGN OF THIS ROAD IS BASED ON THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2012 EDITION, AND SECTION C (3R) OF THE MICHIGAN DEPARTMENT OF TRANSPORTATION LOCAL AGENCY PROGRAMS GUIDELINES FOR GEOMETRICS ON LOCAL AGENCY PROJECTS - DATED 8/03/17, AND THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2011 EDITION.

CONTRACT FOR: 36.8 MILES IDENTIFICATION AND REMOVAL OF FIXED HAZARDOUS OBJECTS, UPDATES TO PERMANENT SIGNING.

TUSCOLA COUNTY ROAD COMMISSION APPROVAL

CHAIRMAN	JOHN G. LAURIE	DATE
VICE-CHAIRMAN	GARY L. PARSELL	DATE
MEMBER	JULIE MATUSZAK	DATE
MEMBER	DUANE WEBER	DATE
MEMBER	DAVID KENNARD	DATE
HIGHWAY ENGINEER	BRENT J. DANKERT, P.E.	DATE

THESE PLANS WERE PREPARED FOR THE
TUSCOLA COUNTY ROAD COMMISSION BY

MICHAEL G. NIEDERQUELL, P.E.	6201049825 REGISTRATION NO.	DATE
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SAGINAW OFFICE
230 S. Washington Ave.
Saginaw, MI 48607
Tel. 989-754-4717
Fax. 989-754-4440
www.SpicerGroup.com

SECTIONS 12, 13, 19, 20, 22-27, 29 & 30, T10N-R7E

SECTIONS 7, 8, 17 & 18, T10N-R8E

SECTIONS 3, 4, 9, 10, 15, 16, 21, 22, 27, 28, 33 & 34, T11N-R10E

SECTIONS 3, 4, 9, 10, 15, 16, 21, 22, 27, 28, 33 & 34, T12N-R10E

SECTIONS 3, 4, 9, 10, 15, 16, 21, 22, 27, 28, 33 & 34, T13N-R10E

SECTIONS 3, 4, 5, 9, 10, 15 & 16, T13N-11E

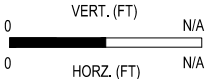
SECTIONS 3, 4, 9, 10, 15, 16, 21, 22, 27, 28, 33 & 34, T14N-R10E

PRELIMINARY

FINAL PLAN REVISIONS				SGI PROJECT NO: 128551SG2020	CS: 79000	TITLE SHEET	DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION					
				DATE: NOVEMBER, 2020	JN: 210364	2021 FIXED OBJECT REMOVAL	TTL	1
				FILE: LP_TITLE.DWG				



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Saginaw, MI 48607
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Fax. 989-754-4440
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11/2/2020 8:54 AM jennyja

UTILITIES

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

CONTACTS

AIR ADVANTAGE
ATT: LEROY KOGLIN
465 N. FRANKLIN STREET
FRANKENMUTH, MI 48734

FIBER OPTIC
PHONE: 989-652-9500 EXT 2240
EMAIL: lkoglin@airadvantage.net

AT&T
ATT: CHRIS LATTY
309 S. WASHINGTON AVENUE
SAGINAW, MI 48607

TELEPHONE
PHONE: 989-776-4031
FAX: 989-776-4703
EMAIL: cl1283@att.com

CENTURYLINK
ATT: TOM TROMBLEY
3541 MILL STREET
NEWPORT, MI 48166

TELEPHONE
PHONE: 734-777-1910
EMAIL: tom.trombley@centurylink.com

CHARTER COMMUNICATIONS
ATT: MARK KELLY
1480 S VALLEY CENTER DRIVE
BAY CITY, MI 48706

CABLE TV
PHONE: 989-233-9404
EMAIL: mark.kelly@charter.com

CONSUMERS ENERGY
ATT: JOE RODEA
2400 WEISS STREET
SAGINAW, MI 48602

GAS
PHONE: 989-791-5869
FAX: 989-791-5719
EMAIL: joseph.rodea1@cmsenergy.com

CONSUMERS ENERGY
ATT: GREG SQUANDA
2400 WEISS STREET
SAGINAW, MI 48602

ELECTRIC
PHONE: 989-791-5353
FAX: 989-791-5719
EMAIL: gregory.squanda@cmsenergy.com

DTE
ATT: SARA A KIPP
4100 DOERR ROAD
CASS CITY, MI 48726

ELECTRIC
PHONE: 989-897-6107
FAX: 989-872-6108
EMAIL: sara.force@dteenergy.com

FRONTIER
ATT: TOM ANDERSON
101 E 2ND STREET
DAVISON, MI 48423

FIBER OPTIC
PHONE: 810-724-3116
EMAIL: tom.e.anderson@ftr.com

PIGEON TELEPHONE
ATT: JEFF ZARNKE
P.O. BOX 650
PIGEON, MI

TELEPHONE
PHONE: 989-453-4255
MOBILE: 989-550-1804
EMAIL: zarnkej@avci.net

SEMCO ENERGY
ATT: ARRON BARR
2220 16TH ST
PORT HURON, MI 48060

GAS
PHONE: 810-887-5038
FAX: 810-887-5095
EMAIL: aaron.barr@semcoenergy.com

THUMB ELECTRIC COOPERATIVE
ATT: CLINT SEIDL
2231 MAIN STREET
UBLY, MI 48475

ELECTRIC
PHONE: 989-658-8571
CELL: 989-553-5656
EMAIL: cseidl@tecmi.coop

WOLVERINE TELEPHONE CO
ATT: WILLIAM BOUMAN
P.O. BOX 292
4712 E. MAIN ST
MILLINGTON, MI 48746

TELEPHONE
PHONE: 989-971-5101
EMAIL: william.bouman@tdstelecom.com

PLAN SHEET REMOVAL LEGEND

COLD MILLING HMA SURFACE		ABANDON	
HMA SURFACE REMOVE		BULKHEAD	
REMOVING PAVEMENT		CLEARING	
REMOVING SIDEWALK		REMOVING	
HMA BASE CRUSHING AND SHAPING		SAVE	
REMOVING CURB, GUTTER AND CURB & GUTTER			

SYMBOLS LEGEND

	- STORM MANHOLE		- EROSION CONTROL ITEM NUMBER (SEE STANDARD PLAN R-96 SERIES)
	- SANITARY MANHOLE		- MAIL BOX
	- WATER MANHOLE		- BARRIER FREE PARKING
	- TELEPHONE MANHOLE		- SPRINKLER
	- ELECTRIC MANHOLE		- RAILROAD SIGNAL
	- PROPOSED MANHOLE		- ANTENNA
	- CATCHBASIN		- SATELLITE DISH
	- CURB CATCHBASIN		- AIR CONDITIONING UNIT
	- PROPOSED CATCHBASIN		- SOIL BORING
	- CULVERT END SECTION		- BENCH MARK
	- PROPOSED CULVERT END SECTION		- CONTROL POINT
	- FIRE HYDRANT		- FOUND SURVEY CORNER
	- PROPOSED FIRE HYDRANT		- SET 1/2" IRON ROD
	- GAS VALVE		- BREAK IN LINE
	- WATER VALVE		- STUMP
	- PROPOSED WATER VALVE		- WETLANDS
	- WATER CURB STOP		- PINE
	- WATER METER		- BUSH
	- TELEPHONE PEDESTAL		- TREE
	- POWER POLE		- MONITORING WELL
	- TELEPHONE POLE		- HAND HOLE
	- POWER AND TELEPHONE POLE		- EXISTING SIGN-1 POST
	- LIGHT POLE		- PROPOSED SIGN-1 POST
	- GUY ANCHOR AND POLE		- EXISTING SIGN-2 POSTS
	- PERMANENT UTILITY MARKER		- PROPOSED SIGN-2 POSTS
	- CABLE TV PEDESTAL		
	- TRANSFORMER		
	- ELECTRICAL PEDESTAL		

HAZARDOUS OR
FLAMMABLE MATERIAL

- GAS OR ELECTRICAL LINES LABEL

CAUTION - CRITICAL
UTILITY

- FIBER OPTIC, TELEPHONE LINES, AND WATER MAIN LABEL

	- DR STRUCTURE COVER, ADJ, CASE _
	- ADJUST BY OTHERS
	- RELOCATE BY OTHERS
	- SIDEWALK RAMP TYPE
	- GATE BOX, ADJ, CASE _

	- CONTRACTOR TO SUPPORT UTILITY POLE
	- PRESERVE MONUMENT BOX
	- WATER SHUTOFF, ADJ, CASE _
	- MONITORING WELL, ADJ, CASE _
	- RELOCATE WITH CASE _

LINE TYPE LEGEND

	- EXISTING WATER MAIN
	- EXISTING SANITARY SEWER
	- EXISTING STORM SEWER
	- EXISTING UNDERGROUND TELEPHONE
	- EXISTING UNDERGROUND FIBER OPTIC
	- EXISTING UNDERGROUND CABLE TV
	- EXISTING GAS MAIN
	- EXISTING UNDERGROUND ELECTRIC
	- EXISTING OVERHEAD UTILITY
	- EXISTING FENCE
	- EXISTING CURB & GUTTER
	- EXISTING BUILDING
	- PROPOSED STORM SEWER
	- PROPOSED CURB & GUTTER
	- PROPOSED REVERSE PAN CURB & GUTTER
	- RIGHT-OF-WAY
	- EASEMENT
	- GUARDRAIL
	- TREE LINE
	- LANDSCAPING

PLAN SHEET CONSTRUCTION LEGEND

	- HMA APPROACH
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PRELIMINARY

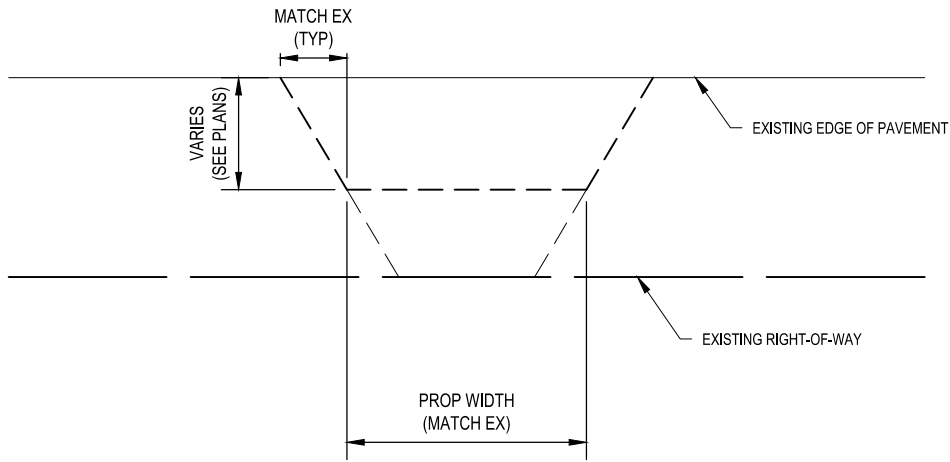
FINAL PLAN REVISIONS				 SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com	VERT. (FT)		SGI PROJECT NO: 128551SG2020		CS: 79000		LEGEND		DRAWING	SHEET
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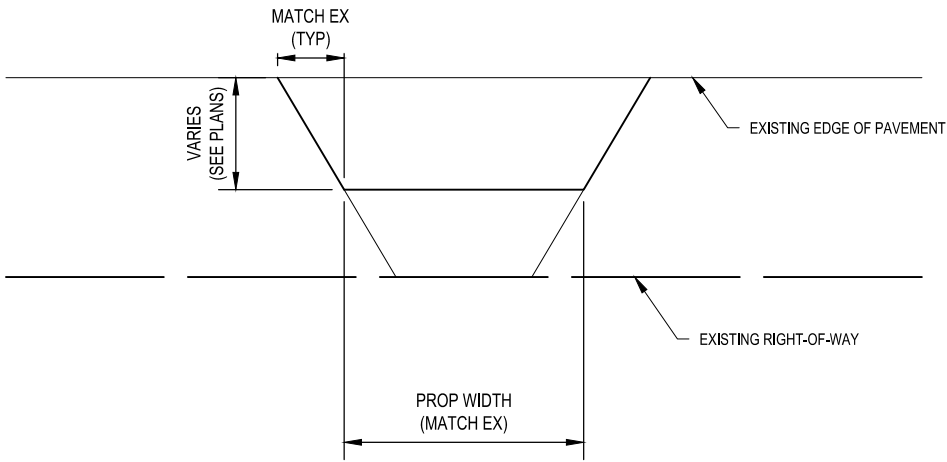
GENERAL NOTES				GENERAL NOTES (CONT.)				MAINTAINING TRAFFIC QUANTITIES				MISCELLANEOUS ESTIMATES																																																
UNDERGROUND UTILITIES/MISS DIG FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174, 2013, THE CONTRACTOR SHALL DIAL 1-800-482-7171 OR 811 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 PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM. THE EXISTING UTILITIES ON THESE DRAWINGS HAVE BEEN SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION AND SHALL NOTIFY THE ENGINEER AS TO WHERE POSSIBLE CONFLICT EXISTS. EXISTING WATER MAINS AND SEWERS THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PROPERLY IDENTIFIED EXISTING WATER MAINS AND/OR EXISTING SEWERS DURING THE CONSTRUCTION OF THIS PROJECT. ADJUSTING MONUMENT BOXES ALL GOVERNMENT CORNERS ON THIS PROJECT SHALL BE PRESERVED, WHETHER SHOWN OR NOT. IT MAY BE NECESSARY TO PLACE OR ADJUST MONUMENT BOXES, AS REQUIRED. PAVEMENT MARKINGS AND SIGNS ALL PERMANENT PAVEMENT MARKINGS, SHAPES, AND DIMENSIONS SHALL CONFORM WITH MDOT PAVEMENT MARKING TYPICALS PAVE-900 SERIES. SOIL EROSION MEASURES APPROPRIATE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO EARTH-DISTURBING ACTIVITIES. PLACE TURF ESTABLISHMENT ITEMS AS SOON AS POSSIBLE ON POTENTIAL ERODABLE SLOPES AS DIRECTED BY THE ENGINEER. CRITICAL DITCH GRADES SHALL BE PROTECTED WITH EITHER SOD OR SEED/MULCH OR MULCH BLANKET AS DIRECTED BY THE ENGINEER. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE AND MAINTAINED UNTIL THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. MEASURES SHALL ONLY BE PAID FOR ONCE. SEED MIXTURE THE DESIGNATION FOR THE PERMANENT TURF SEED MIXTURE ON THIS PROJECT SHALL BE THV. DRAINAGE STRUCTURE OFFSETS AND ELEVATIONS DRAINAGE STRUCTURE IN PROPOSED CURB - OFFSETS AND ELEVATIONS SHOWN ARE TO THE BACK AND TOP OF CURB. ALIGN THE STRUCTURE WITH THE BACK OF THE CASTING AND THE TOP OF THE CASTING FLUSH WITH THE PROPOSED BACK AND TOP OF CURB. DRAINAGE STRUCTURES IN OUTLAWN AREA AND PAVED AREA - OFFSET SHOWN IS TO CENTER OF STRUCTURE. RIM ELEVATIONS FOR DOME COVERS AND FLAT COVERS ARE TO THE TOP OF THE CASTING FRAME				LAWN SPRINKLERS/LANDSCAPING OWNERS OF EXISTING LAWN SPRINKLER SYSTEMS AND/OR LANDSCAPING SHALL BE NOTIFIED (IN WRITING WITH A COPY SENT TO THE ENGINEER) BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF ANY WORK TO BE DONE THAT WILL AFFECT THOSE SYSTEMS AND/OR LANDSCAPING. IF THE PROPERTY OWNER FAILS TO RELOCATE THE LAWN SPRINKLER SYSTEM PRIOR TO THE CONTRACTOR BEGINNING WORK, AND IF THE CONTRACTOR CUTS THE SYSTEM DURING THE CONSTRUCTION, THE CONTRACTOR SHALL CAP THE SYSTEM PIPE AND WITNESS THE LOCATION OF THE CAP WITH A WOODEN STAKE FOR THE PROPERTY OWNERS USE. THE CONTRACTOR SHALL PLACE THE SALVAGED SPRINKLER HEADS ON THE BACK OF THE RIGHT OF WAY. IF THE PROPERTY OWNER FAILS TO RELOCATE THE LANDSCAPING PRIOR TO THE CONTRACTOR BEGINNING WORK, THE CONTRACTOR SHALL CAREFULLY SALVAGE THE LANDSCAPING ITEMS AND STOCKPILE THEM ON THE BACK OF THE RIGHT OF WAY OR AT A LOCATION DESIGNATED BY THE ENGINEER FOR THE PROPERTY OWNER. ANY OTHER MODIFICATION TO THE LAWN SPRINKLER SYSTEMS AND/OR LANDSCAPING, IS THE RESPONSIBILITY OF THE OWNER AND IS NOT PART OF THIS CONTRACT. THIS WORK WILL NOT BE PAID FOR SEPARATELY. CONNECTIONS TO EXISTING CULVERTS/SEWERS THE EXTENSIONS/CONNECTIONS TO EXISTING CULVERTS/SEWERS ON THIS PROJECT MAY REQUIRE EXTRA WORK TO OBTAIN A TIGHT SEAL AT THE JOINT CONNECTING NEW PIPE TO EXISTING PIPE. THE JOINT BETWEEN THE EXISTING AND NEW PIPES SHALL BE CONSTRUCTED ACCORDING TO THE 2012 MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. ANY EXTRA WORK REQUIRED TO OBTAIN TIGHT JOINTS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN COMPENSATION FOR NEW PIPE. PROPERTY OWNERS PROPERTY OWNERS' NAMES, WHERE SHOWN, ARE FOR INFORMATION ONLY, AND THEIR ACCURACY IS NOT GUARANTEED. SAWCUTS PAYMENT FOR SAWCUTS REQUIRED TO REMOVE MISCELLANEOUS ITEMS, PAVEMENT AND/OR CURB AND GUTTER SHALL BE INCLUDED IN THOSE REMOVAL ITEMS. TOPSOIL CONTRACTOR SHALL REMOVE AND DISPOSE, OR SALVAGE AND STORE TOPSOIL A MINIMUM OF 4" DEEP. SALVAGED TOPSOIL SHALL BE STORED ON-SITE UNLESS WRITTEN PERMISSION IS OBTAINED AT AN OFF-SITE LOCATION. COST TO REMOVE AND DISPOSE, OR SALVAGE AND STORE TOPSOIL SHALL BE INCLUDED IN THE PAYMENT FOR OTHER ITEMS. SALVAGED MATERIALS IF CONTRACTORS CHOOSES TO USE SALVAGED MATERIALS FROM PROJECT TO MAINTAIN ACCESS, IT SHALL BE PLACED, MAINTAINED, AND REMOVED WHEN NO LONGER NEEDED AT CONTRACTOR'S EXPENSE.				<table><tr><td>2</td><td>Ea</td><td>Lighted Arrow, Type C, Furn</td></tr><tr><td>2</td><td>Ea</td><td>Lighted Arrow, Type C, Oper</td></tr><tr><td>1</td><td>LSUM</td><td>Minor Traf Devices</td></tr><tr><td>100</td><td>Ea</td><td>Plastic Drum, Fluorescent, Furn</td></tr><tr><td>100</td><td>Ea</td><td>Plastic Drum, Fluorecent, Oper</td></tr><tr><td>20</td><td>Ea</td><td>Sign Cover</td></tr><tr><td>636</td><td>Sft</td><td>Sign, Type B, Temp, Prismatic, Furn</td></tr><tr><td>636</td><td>Sft</td><td>Sign, Type B, Temp, Prismatic, Oper</td></tr><tr><td>1</td><td>LSUM</td><td>Traf Regulator Control</td></tr></table>				2	Ea	Lighted Arrow, Type C, Furn	2	Ea	Lighted Arrow, Type C, Oper	1	LSUM	Minor Traf Devices	100	Ea	Plastic Drum, Fluorescent, Furn	100	Ea	Plastic Drum, Fluorecent, Oper	20	Ea	Sign Cover	636	Sft	Sign, Type B, Temp, Prismatic, Furn	636	Sft	Sign, Type B, Temp, Prismatic, Oper	1	LSUM	Traf Regulator Control	<table><tr><td>1</td><td>LSUM</td><td>Mobilization, Max ____</td></tr><tr><td>0.4</td><td>Acre</td><td>Clearing</td></tr><tr><td>250</td><td>Ft</td><td>Erosion Control, Silt Fence</td></tr><tr><td>50</td><td>Ea</td><td>Post, Mailbox</td></tr><tr><td>50</td><td>Syd</td><td>Riprap, Plain</td></tr><tr><td>1000</td><td>Syd</td><td>Slope Restoration, Modified</td></tr></table>				1	LSUM	Mobilization, Max ____	0.4	Acre	Clearing	250	Ft	Erosion Control, Silt Fence	50	Ea	Post, Mailbox	50	Syd	Riprap, Plain	1000	Syd	Slope Restoration, Modified
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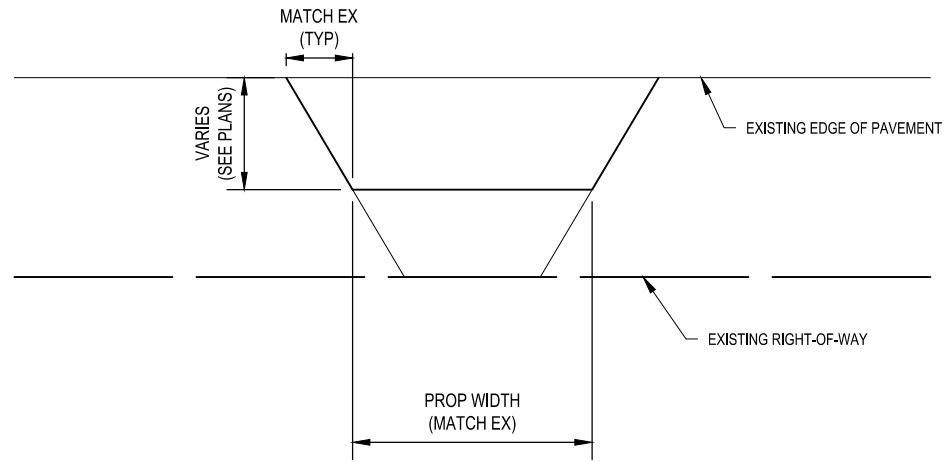
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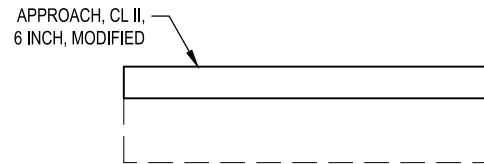
GRAVEL DRIVEWAY REPAIR DETAIL



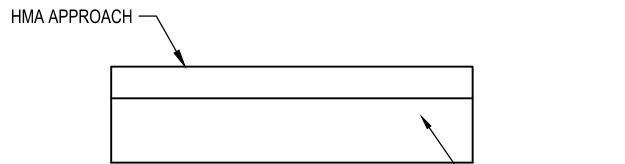
HMA DRIVEWAY REPAIR DETAIL



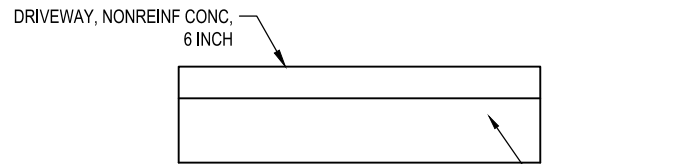
CONC DRIVEWAY REPAIR SECTION



GRAVEL DRIVEWAY REPAIR SECTION



HMA DRIVEWAY REPAIR SECTION



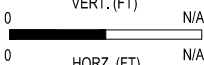
CONC DRIVEWAY REPAIR SECTION

HMA APPLICATION ESTIMATE

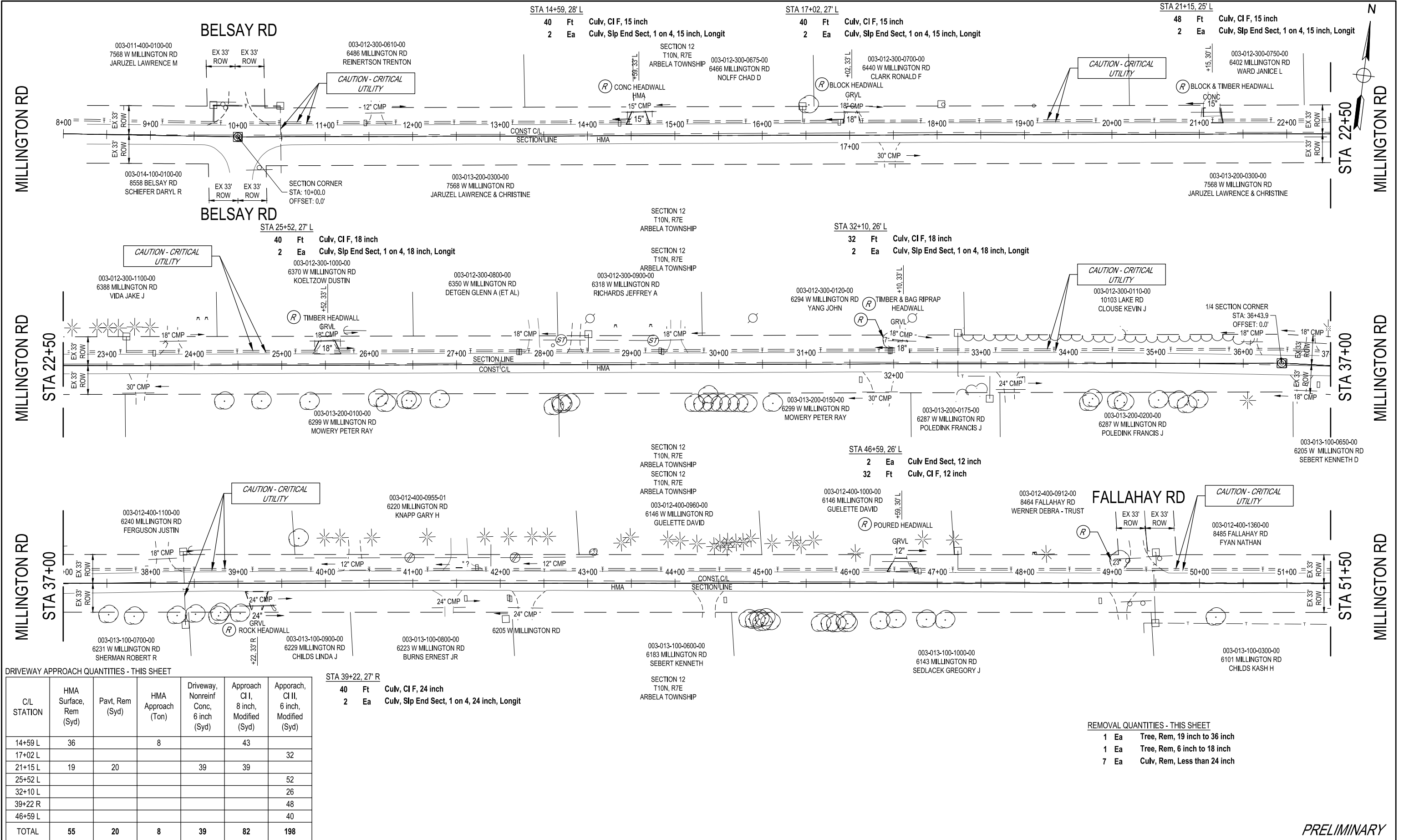
IDENT NO.	ITEM	RATE LBS PER SYD	PERFORMANCE GRADE	REMARKS
HA	HMA APPROACH	330	58-28	HMA, LVSP TOP COURSE EST @ 165#/SYD; HMA, LVSP LEVELING COURSE EST @ 165#/SYD

PLACE HMA BOND COAT AT 0.05-0.15 GAL/SYD BETWEEN LAYERS AS DIRECTED BY THE ENGINEER (INCLUDED IN PAYMENT FOR HMA PAVING)
THE AGGREGATE WEAR INDEX (AWI) FOR THE TOP COURSE SHALL BE 220 MINIMUM

PRELIMINARY

FINAL PLAN REVISIONS					SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com		SGI PROJECT NO: 128551SG2020		CS: 79000		MISCELLANEOUS DETAILS		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION				DATE: OCTOBER, 2020	JN: 210364	2021 FIXED OBJECT REMOVAL				DETS	4
							FILE: LP_DETAILS.DWG							

10/30/2020 5:04 PM katherine.pfenninger



DRIVEWAY APPROACH QUANTITIES - THIS SHEET

C/L STATION	HMA Surface, Rem (Syd)	Pavt, Rem (Syd)	HMA Approach (Ton)	Driveway, Nonreinf Conc, 6 inch (Syd)	Approach CI I, 8 inch, Modified (Syd)	Apporach, CI II, 6 inch, Modified (Syd)
14+59 L	36		8		43	
17+02 L						32
21+15 L	19	20		39	39	
25+52 L						52
32+10 L						26
39+22 R						48
46+59 L						40
TOTAL	55	20	8	39	82	198

STA 39+22, 27' R

40 Ft Culv, CI F, 24 inch
2 Ea Culv, Slp End Sect, 1 on 4, 24 inch, Longit

REMOVAL QUANTITIES - THIS SHEET

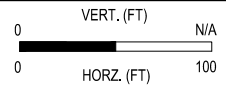
- 1 Ea Tree, Rem, 19 inch to 36 inch
- 1 Ea Tree, Rem, 6 inch to 18 inch
- 7 Ea Culv, Rem, Less than 24 inch

PRELIMINARY

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CONSTRUCTION		DRAWING	SHEET
MILLINGTON ROAD		PLAN44	48
STA 10+00 (POB) TO STA 51+50			

