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SOIL BORING LOG SHEETS
MAINTAINING TRAFFIC SHEET

UTILITIES

ELECTRIC CONSUMERS ENERGY CO.

2400 WEISS STREET SAGINAW, MI 48602 CONTACT: GREG SQUANDA TELEPHONE: 989-791-5353

NATURAL GAS CONSUMERS ENERGY CO. 2400 WEISS STREET

CONTACT: KYLE SKRABUT TELEPHONE: 989-791-5885 TELEPHONE

309 SOUTH WASHINGTON SAGINAW, MI 48607 CONTACT: ROB AUGUSTINE TELEPHONE: 989-771-5404

CABLE CHARTER COMMUNICATIONS 1480 SOUTH VALLEY CENTER DRIVE

CONTACT: GORDON BROOKS TELEPHONE: 989-737-5356

MIDLAND COUNTY ROAD COMMISSION 2334 NORTH MERIDIAN RD.

SANFORD, MICHIGAN 48657 CONTACT: TERENCE PALMER, P.E. TELEPHONE: 989-687-9060

WATER CITY OF MIDLAND 333 W. ELLSWORTH ST.

MIDLAND, MI 48640 CONTACT: ANDREW PARROTT TELEPHONE: 989-837-6958

M.D.O.T. STANDARD PLANS

(* SPECIAL DETAILS WILL BE INCLUDED IN PROPOSAL)

(0. 202 02	The be mocoded in the cone,
PLAN NO.	TITLE
R-1-G *	DRAINAGE STRUCTURES
R-7-F	COVER B
R-11-E	MONUMENT BOXES
R-15-F	COVER K
R-29-I	DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK
R-30-G	CONCRETE CURB AND CONCRETE CURB & GUTTER
R-32-E	APPROACH CURB & GUTTER, DOWNSPOUTS (FOR BRIDGE APPROACH CURB AND GUTTER)
R-35-D	CONCRETE SHOULDER GUTTER AND SPILLWAY
R-59-E	GUARDRAIL AT BRIDGES AND EMBANKMENTS
R-60-J *	GUARDRAIL TYPES A, B, DB, T, TD, MGS-8, & MGS-8D
R-67-G *	GUARDRAIL ANCHORAGE, BRIDGE, DETAILS
R-80-E	GRANULAR BLANKET, UNDERDRAINS, OUTLET ENDINGS FOR UNDERDRAINS, AND SEWER BULKHEADS
R-82-D	BEDDING AND FILLING AROUND PIPE CULVERTS
	UTILITY TRENCHES
	OUTLET HEADWALLS
	PRECAST CONCRETE END SECTION FOR PIPE CULVERT
	STEEL END SECTION
	CULVERT SLOPED END SECTION
	SOIL EROSION & SEDIMENTATION CONTROL MEASURES
	SEEDING AND TREE PLANTING
	WOVEN WIRE FENCE
	GRADING CROSS—SECTIONS
	SUPERELEVATION AND PAVEMENT CROWNS
	PAVEMENT SAFETY EDGE
R-127-F *	DELINEATOR INSTALLATIONS
	R-1-G * R-7-F R-11-E R-15-F R-29-I R-30-G R-32-E R-35-D R-59-E R-67-G * R-80-E

TRAFFIC AND SAFETY STANDARD PLANS

(* SPECIAL DETAILS	S WILL BE INCLUDED IN PROPOSAL)
PLAN NO.	TITLE
PAVE-905-C	LONGITUDINAL LINE TYPES AND PLACEMENT
PAVE-930-C	PAVEMENT MARKINGS FOR NON-SIGNALIZED INTERSECTIONS
PAVE-945-C	INTERSECTION, STOP BAR AND CROSSWALK MARKINGS
SIGN-100-G *	STANDARD SIGN INSTALLATIONS
SIGN-120-E *	ROADSIDE SIGN LOCATIONS AND SUPPORT SPACING
SIGN-150-D	SIGN SUPPORT SELECTION CHARTS
SIGN-200-D	STEEL POSTS
WZD-100-A *	GROUND DRIVEN SIGN AND SUPPORTS FOR TEMP SIGNS
WZD-125-E *	TEMPORARY TRAFFIC CONTROL DEVICES

MIDLAND COUNTY ROAD COMMISSION

IN CO-OPERATION WITH MICHIGAN DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION PLAN AND PROFILE OF PROPOSED

GORDONVILLE ROAD SAFETY IMPROVEMENTS

T13N - R1E, SECTION 3 T14N - R1E, SECTION 34

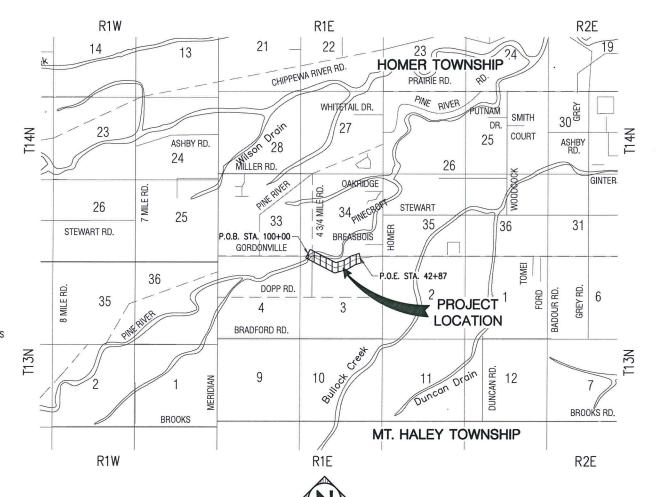
MT. HALEY AND HOMER TOWNSHIPS, MIDLAND COUNTY

CONTROL SECTION HRRR 56609

JOB NO. 131247A FEDERAL JOB NO. HRRR 1756(014)

FEDERAL ITEM NO.

KK4372



NOT TO SCALE





THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SUPPLEMENTAL SPECIFICATIONS. THE LATEST MDOT STANDARD ROAD PLANS, SECTION B (4R) AND SECTION C (3R) OF THE MDOT LOCAL AGENCY PROGRAMS GUIDELINES FOR GEOMETRICS, 2014 EDITION, AND SUPPLEMENTAL SPECIFICATIONS. THE PROPOSED IMPROVEMENTS COVERED BY THESE PLANS ARE IN ACCORDANCE WITH AASHTO: A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, 6TH EDITION, 2011.

THE PLACEMENT OF PAVEMENT MARKINGS AND SIGNAGE SHALL BE COMPLETED IN ACCORDANCE WITH THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2011 EDITION.

PROJECT LENGTH

JN 131247A P.O.B. = STA. 100+00 P.O.E. = STA 42+87 JN 131247A = 0.69 MILE

TRAFFIC DATA

GORDONVILLE ROAD
PRESENT ADT (2016) =
FUTURE ADT (2036) =
% COMMERCIAL = DESIGN SPEED = POSTED SPEED =

1,748 VEHICLES/DAY 1,931 VEHICLES/DAY 7.8% 60 MPH PRIMA FACIE

CONTRACT FOR:

0.69 MILES OF HORIZONTAL CURVE REALIGNMENT, INTERSECTION REALIGNMENT, COLD MILLING HMA SURFACE, HMA PAVING, GUARDRAIL REPLACEMENT, SUPERELEVATION CORRECTIONS, PAVEMENT MARKINGS AND PERMANENT SIGNING.

MIDLAND COUNTY ROAD COMMISSION APPROVAL unce w take

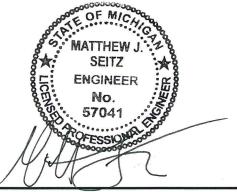
ERENCE PALMER, P.E. - MANAGING DIRECTOR

PREPARED UNDER SUPERVISION OF

MATTHEW J. SEITZ REGISTERED PROFESSIONAL ENGINEER 57041

ROWE PROFESSIONAL SERVICES COMPANY

127 S. MAIN ST. MT. PLEASANT, MI 48858 ADDRESS





127 S. Main Street Mt. Pleasant, MI 4885 O· (989) 772-213 F: (989) 773-775

PLOTTED: 8/21/2017 5:04 PM

R:\Projects\16M0094\Dwg\Construction Drawings\SH - 16M0094 - COV.dwg

STRUCTURE SYMBOLS EXISTING CATCH BASIN IN CURB LINE

- PROPOSED CATCH BASIN IN CURB LINE
- EXISTING CATCH BASIN IN GREEN SPACE
- PROPOSED CATCH BASIN IN GREEN SPACE
- EXISTING STORM MANHOLE
- PROPOSED STORM MANHOLE
- PROPOSED CULVERT END SECTION
- EXISTING HEADWALL
- PROPOSED HEADWALL
- EXISTING WATER SHUTOFF (SERVICE VALVE)
- EXISTING GATE VALVE AND BOX (STOP BOX)
- PROPOSED GATE VALVE AND BOX
- EXISTING GATE VALVE AND WELL
- PROPOSED GATE VALVE AND WELL
- EXISTING SPRINKLER HEAD
- EXISTING WATER WELL
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT

PROPOSED WATER MAIN FITTINGS

- EXISTING CLEAN OUT
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- EXISTING MONITORING WELL

EXISTING TOPOGRAPHICAL SYMBOLS

- SIGN
- STREET SIGN
- END OF PIPE
- SWAMP OR WETLAND
- \odot DECIDUOUS TREE
- CONIFEROUS TREE
- TREE STUMP
- MAIL BOX
- SOIL BORING
- ROCK
- METAL POST
- BUMPER BLOCK

UTILITY SYMBOLS

- UTILITY POLE
- GUY ANCHOR CABLE
- LIGHT POLE / ORNAMENTAL LIGHT
- POWER LIGHT POLE
- TELEPHONE MANHOLE
- UNDERGROUND GAS LINE MARKER
- GAS RISER
- GAS VENT
- GAS VALVE
- \oplus RAILROAD SIGNAL
- METAL LIGHT POLE
- OUTLET
- CIRCUIT BREAKER PANEL
- ELECTRICAL TRANSFORMER PAD
- \boxtimes ELECTRICAL TRANSFORMER RISER
- ELECTRIC METER
- TELEPHONE PEDESTAL / RISER
- TRAFFIC SIGNAL ON POLE
- PHONE BOOTH / PAY PHONE

SURVEY SYMBOLS

- MONUMENT
- **BENCHMARK**
- TRAVERSE POINT
- SECTION CORNER
- FOUND SURVEY MONUMENTATION

MISCELLANEOUS SYMBOLS

- EX. 1070
- EXISTING STRUCTURE NUMBER
- 1 PROPOSED STRUCTURE NUMBER
 - FLOW DIRECTION

200

- EXISTING RIP-RAP
- PROPOSED RIP-RAP

CAUTION SYMBOLS



USED WITH UNDERGROUND GAS & ELECTRICAL LINES

••CAUTION••
FIBER OPTIC

USED WITH FIBER OPTICS LINES

PLAN VIEW LINE TYPES

EXISTING RIGHT OF WAY

UNDERGROUND CABLE TV LINE

----- EXISTING STORM SEWER ____12" CONC EXISTING CULVERT ----- PROPOSED STORM SEWER EXISTING SANITARY SEWER PROPOSED SANITARY SEWER EXISTING WATER MAIN PROPOSED WATER MAIN SECTION LINE

60' ROW PROPOSED RIGHT OF WAY

---- PROPOSED EASEMENT EXISTING CENTER LINE DITCH

PROPOSED DITCH CENTERLINE EXISTING CENTER LINE ROADWAY PARCEL LINE / LOT LINE

EXISTING OVERHEAD UTILITIES UNDERGROUND ELECTRICAL LINE

GAS LINE OR PETROLEUM PIPELINE UNDERGROUND TELEPHONE LINE

UNDERGROUND FIBER OPTIC 11+00 PROJECT CONTROL LINE

TREE LINE _x__ x _x__ x _x__ x _x__ x _x__ EXISTING FENCE

···· EXISTING GUARD RAIL · · · · · PROPOSED SLOPE STAKE LINE

PROPOSED SILT FENCE

TOPOGRAPHY



PARCEL INFORMATION

401-069 PARCEL/TAX IDENTIFICATION NUMBER #5324 ADDRESS/BUSINESS NAME

PAVEMENT IDENTIFICATION

EXISTING CURB AND GUTTER PROPOSED CURB AND GUTTER

EXISTING PAVEMENT

EXISTING GRAVEL

HATCHING LEGEND



REMOVE PAVEMENT



REMOVE HMA SURFACE



REMOVE CURB AND GUTTER

REMOVE AND REPLACE CURB AND GUTTER

COLD MILLING EXISTING PAVEMENT



SAND BACKFILL (PROFILE)



REL-B/0

PROPOSED HMA APPROACH

PROPOSED CALLOUTS

TOPO CALLOUTS PLAN VIEW ADJUST STRUCTURE (ADJ) ADJ ADJUST STRUCTURE BY OTHERS ADJ-B/O (ADJ-B/O) REC RECONSTRUCT STRUCTURE REC

(REL) RELOCATE RELOCATE BY OTHERS (REL-B/O)

 \mathbb{R} REM REMOVE

R&R) R&R REMOVE AND REPLACE SALV (SALV) SALVAGE

 \bigcirc SAVE SAVE (A) ABN ABANDON

> $^{\circ}$ BULKHEAD

(SR-F) SIDEWALK RAMP TYPE 6

SOIL EROSION CONTROL MEASURE

Know what's **below** Call before you dig.

PLAN SUBMITTALS AND CHANGES

LEGEND (

SCALE

9

ENJ

AUGUST

DATE:

PLAN

ROWE PROFESSIONAL

COMPANY

SERVICES

S E

SKEET

MIDLAND COUNTY ROAD COMMISSION GORDONVILLE ROAD SAFETY IMP.

REV:

SHT# 2 OF 28

GENERAL CONSTRUCTION NOTES

EMERGENCY CONTACTS

BEFORE BEGINNING WORK ON THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH THE NAMES AND TELEPHONE NUMBERS OF EMERGENCY CONTACTS. AT LEAST ONE PERSON REPRESENTING THE CONTRACTOR SHALL BE AVAILABLE TO RESPOND TO EMERGENCIES THROUGHOUT THE LIFE OF THE PROJECT, 24 HOURS A DAY, 7 DAYS A WEEK.

UNDERGROUND UTILITY IDENTIFICATION AND LOCATION

THE CONTRACTOR SHALL CALL MISS DIG (1-800-482-7171 OR 811) A MINIMUM OF THREE WORK DAYS IN ADVANCE OF BEGINNING EXCAVATION. THE CONTRACTOR IS RESPONSIBLE TO IDENTIFY AND NOTIFY UTILITY AGENCIES WITHIN THE PROJECT AREA WHICH DO NOT PARTICIPATE IN THE MISS DIG NOTIFICATION PROGRAM.

EXISTING UTILITIES ARE SHOWN BASED UPON RECORDS AND LOCATIONS PROVIDED BY UTILITY AGENCIES. THE INFORMATION SHOWN IS CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR. UNLESS THE PLANS SPECIFICALLY SHOW THAT EXISTING UTILITIES ARE TO BE MOVED, THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN EXISTING UTILITIES.

VERIFICATION OF UNDERGROUND UTILITIES

THE CONTRACTOR SHALL EXCAVATE AND LOCATE ALL EXISTING UTILITIES IN THE PROJECT AREA IN ADVANCE OF CONSTRUCTION TO VERIFY THEIR ACTUAL LOCATION. POTENTIAL CONFLICTS SHALL BE REPORTED TO THE ENGINEER. THE CONTRACTOR SHALL MAKE SUCH CHANGES TO GRADE AND ALIGNMENT OF PROPOSED WORK AS DIRECTED BY THE ENGINEER TO AVOID CONFLICTS, AT NO INCREASE IN COST TO THE OWNER.

UTILITY SERVICE

UNLESS SPECIFICALLY PROVIDED OTHERWISE IN THE CONTRACT DOCUMENTS, ALL EXISTING UTILITIES ARE TO

MAILBOXES LOCATED WITHIN THE LIMITS OF EXCAVATION, GRADING, OR CONSTRUCTION SHALL BE REMOVED AND PROTECTED FROM DAMAGE BY THE CONTRACTOR. TEMPORARY MAILBOXES SHALL BE PROVIDED AND MAINTAINED DURING THE PROJECT. UPON COMPLETION OF GRADING OR CONSTRUCTION ACTIVITIES, THE ORIGINAL MAILBOX SHALL BE REINSTALLED.

MAILBOXES (AND/OR SUPPORTS) WHICH ARE DAMAGED AS A RESULT OF THE PROJECT SHALL BE REPLACED BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE. MAILBOXES SHALL BE REPLACED IN ACCORDANCE WITH THE STANDARDS OF THE U.S. POSTAL SERVICE AND THE REGULATIONS OF THE AGENCY HAVING JURISDICTION OVER THE ROADS AND STREETS IN THE PROJECT AREA.

PRIVATE IRRIGATION SYSTEMS

WHERE IRRIGATION SYSTEMS WITHIN THE PUBLIC RIGHT-OF-WAY WILL INTERFERE WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS THAT IT IS THEIR RESPONSIBILITY TO REMOVE AND PROTECT THEIR IRRIGATION SYSTEM. THE CONTRACTOR SHALL PROVIDE THE ENGINEER

WHERE THE OWNER HAS NOT REMOVED THEIR PRIVATE IRRIGATION SYSTEM, THE CONTRACTOR SHALL CUT AND PLUG THOSE SECTIONS OF PIPING WHICH INTERFERE WITH CONSTRUCTION. SPRINKLER HEADS, VALVES, AND PIPING WHICH INTERFERES WITH THE CONTRACTOR'S WORK, SHALL BE REMOVED AND STOCKPILED ON

SOIL BORINGS / PAVEMENT CORES

IF PROVIDED ON THE PLANS OR IN THE CONTRACT DOCUMENTS, LOGS OF SOIL BORINGS OR PAVEMENT CORES REPRESENT THE SUBSURFACE CONDITIONS ENCOUNTERED AT SPECIFIC POINTS. THE INFORMATION IS PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY.

MAINTAINING TRAFFIC

LOCAL AND EMERGENCY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES WITHIN THE PROJECT AREA.

WHEN EXCAVATION, FRESH CONCRETE, OR OTHER CONSTRUCTION WORK WILL RESULT IN THE CLOSURE OF A STREET OR DRIVEWAY FOR A PERIOD OF TIME, THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL AFFECTED

THE CONTRACTOR SHALL NOTIFY EMERGENCY RESPONSE AGENCIES IN ADVANCE OF ROAD CLOSURES OR THE

MIDLAND COUNTY CENTRAL DISPATCH TELEPHONE: 989-839-6464

MIDLAND COUNTY SHERIFF TELEPHONE: 989-839-4600

BULLOCK CREEK SCHOOLS

TELEPHONE: 989-631-9022

TRAFFIC SIGNS

TRAFFIC SIGNS WHICH INTERFERE WITH CONSTRUCTION THAT ARE NOT SPECIFICALLY CALLED OUT FOR REMOVAL SHALL BE REMOVED AND REPLACED BY THE MIDLAND COUNTY ROAD COMMISSION. THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE MIDLAND COUNTY ROAD COMMISSION TO ARRANGE FOR REMOVAL OF THE SIGN. THIS WORK IS INCLUDED IN OTHER ITEMS.

SCHEDULE

THE CONTRACTOR SHALL COMPLETE ALL WORK IN AN EXPEDITIOUS MANNER AND SHALL NOT STOP WORK ON THE PROJECT ONCE BEGUN.

ALIGNMENT

ALIGNMENT AND GRADES FOR CURB AND GUTTER (INCLUDING THROUGH RAMPS AND DRIVEWAY OPENINGS) SHOWN ON THE PLANS ARE FOR THE TOP, BACK OF CURB, UNLESS SPECIFICALLY SHOWN OTHERWISE ON

WHERE RIM ELEVATIONS ARE PROVIDED ON THE PLANS FOR INLETS OR MANHOLE CASTINGS, THE ELEVATIONS PROVIDED ARE CONSIDERED PRELIMINARY. THE CONTRACTOR SHALL MAKE THE FINAL ADJUSTMENT FOLLOWING THE ESTABLISHMENT OF ACTUAL GRADING AND PAVEMENT ELEVATIONS.

CONSTRUCTION STAKING

CONSTRUCTION STAKING IS TO BE PROVIDED BY THE ENGINEER OR OWNER. THE CONTRACTOR SHALL REQUEST STAKING AT LEAST THREE WORKING DAYS IN ADVANCE

CONSTRUCTION STAKING IS TO BE PROVIDED BY THE ENGINEER OR OWNER. STAKING WILL BE PROVIDED ONE TIME. THE CONTRACTOR SHALL PROTECT AND PRESERVE SURVEY CONTROL AND STAKING. RE-STAKING WILL BE AT THE CONTRACTOR'S EXPENSE.

SURVEY CORNERS, BENCHMARKS, AND CONTROL POINTS

THE CONTRACTOR SHALL PRESERVE ALL GOVERNMENT CORNERS, PROPERTY CORNERS, BENCHMARKS, SURVEY CONTROL POINTS AND OTHER SURVEY POINTS WITHIN THE PROJECT AREA. WHERE CORNERS, SONVET CONTROL OF THE CONTRACTOR'S ACTIVITIES, A LICENSED SURVEY POINTS ARE ENCOUNTERED WHICH WILL BE DISTURBED BY THE CONTRACTOR'S ACTIVITIES; A LICENSED SURVEYOR SHALL WITNESS THE POINT BEFORE DISTURBANCE AND SHALL RE—SET THE POINT FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PAY THE SURVEYOR TO WITNESS AND TO RE-SET THE POINTS.

PROTECTION OF TREES, SHRUBS, AND LANDSCAPING ALL TREES, SHRUBS, AND LANDSCAPING WITHIN THE CONSTRUCTION AREA WHICH ARE NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. DAMAGED TREES. SHRUBS, AND LANDSCAPING SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

CONSTRUCTION SIGNING AND BARRICADING

THE CONTRACTOR SHALL PROTECT HAZARDOUS AREAS WITH BARRICADES. BARRICADES LEFT IN PLACE

THE CONTRACTOR SHALL PROVIDE SUITABLE SANDBAGS OR OTHER SUITABLE MEASURES FOR ANCHORING OF TEMPORARY SIGNS AND BARRICADES, TO PREVENT THEIR TIPPING OR DISPLACEMENT BY WIND OR AIR FLOW

THE CONTRACTOR SHALL PROVIDE SIGNING, BARRICADES, DRUMS, AND OTHER TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCY HAVING JURISDICTION OVER STREETS OR ROADS IN THE PROJECT ARE, THE CURRENT MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND THE PLANS AND SPECIFICATIONS.

THE CONTRACTOR SHALL COVER OR REMOVE TEMPORARY SIGNS DURING PERIODS WHEN THEY ARE NOT

TURF ESTABLISHMENT

ALL DISTURBED AREAS WHICH ARE NOT TO BE SURFACED WITH PAVEMENT, AGGREGATE OR OTHER APPROVED SURFACES SHALL BE ESTABLISHED WITH TURF.

TURE AREAS SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE.

DISTURBED AREAS SHALL BE SURFACED WITH FOUR INCHES OF SCREENED TOPSOIL.

THE CONTRACTOR IS RESPONSIBLE TO ESTABLISH TURF WHICH IS SUBSTANTIALLY FREE OF BARE SPOTS AND FREE OF WEEDS. THE GROUND SURFACE IN TURF AREAS SHALL BE SMOOTH AND PROVIDE A NATURAL TRANSITION TO ADJACENT, UNDISTURBED AREAS.

THE CONTRACTOR IS RESPONSIBLE TO PROVIDE WATERING, WEEDING, RESEEDING, AND REWORKING AS NECESSARY TO ESTABLISH TURF AREAS TO THE REQUIRED STANDARD.

ALL PROPOSED CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE CURRENT AMERICANS WITH DISABILITIES ACT (ADA), AND APPLICABLE GUIDELINES OR STANDARDS. WHERE EXISTING CONDITIONS AND/OR THE REQUIREMENTS OF THE PLANS WILL RESULT IN FINISHED CONDITIONS THAT DO NOT MEET THE ADA REQUIREMENTS, GUIDELINES, OR STANDARDS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE DETERMINED TO BE NOT IN ACCORDANCE WITH APPLICABLE REQUIREMENTS, GUIDELINES, OR STANDARDS.

FARTHWORK

THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF THE EARTHWORK QUANTITIES, AND BASE HIS BID ON HIS DETERMINATION OF THE QUANTITIES OF WORK REQUIRED.

IF ADDITIONAL FILL MATERIAL MUST BE PROVIDED TO ATTAIN THE FINISH GRADES SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDE THE REQUIRED FILL MATERIAL, UNLESS A SPECIFIC BORROW AREA IS IDENTIFIED ON THE PLANS.

EXCESS SOILS RESULTING FROM EXCAVATION AND FARTHWORK SHALL BECOME THE CONTRACTOR'S PROPERTY AND DISPOSED OF PROPERLY, UNLESS AN AREA(S) HAS BEEN DESIGNATED FOR STOCKPILING OR "BLENDING IN" THE EXCESS MATERIAL WITHIN THE PROJECT LIMITS.

BACKFILL AND EMBANKMENT

BACKFILL OF AN EXCAVATION UNDER OR WITHIN THE ONE ON ONE INFLUENCE OF AN EXISTING OR PROPOSED ROAD, SIDEWALK, DRIVEWAY, PAVEMENT, OR AGGREGATE SURFACE, SHALL BE SAND, MEETING THE REQUIREMENTS OF GRANULAR MATERIAL CLASS III AS DESCRIBED IN THE CURRENT MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION. THE SAND BACKFILL SHALL BE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM UNIT WEIGHT

BACKFILL OF AN EXCAVATION WHICH IS NOT LINDER OR WITHIN THE ONE ON ONE INFLUENCE OF AN EXISTING OR PROPOSED ROAD, SIDEWALK, DRIVEWAY, PAVEMENT, OR AGGREGATE SURFACE MAY BE SUITABLE EXCAVATED MATERIAL OR OTHER SOIL, WHICH IS FREE OF ORGANIC MATTER, STONES AND ROCKS, ROOTS, BROKEN CONCRETE, FROZEN MATERIAL, OR DEBRIS. THE BACKFILL SHALL BE COMPACTED TO AT LEAST 90% OF ITS MAXIMUM UNIT WEIGHT.

THE CONTRACTOR SHALL INDICATE THE SOURCE OF SAND USED FOR BACKFILL TO THE ENGINEER. AND PROVIDE THE ENGINEER WITH THE RESULTS OF A GRADATION TEST PERFORMED ON A SAMPLE OF THE SAND THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN ADVANCE OF USING SAND FROM OTHER SOURCES

EMBANKMENT USED TO BUILD THE SUBGRADE TO REQUIRED ELEVATION SHALL BE SUITABLE SOIL EXCAVATED FROM THE PROJECT SITE OR FURNISHED BY THE CONTRACTOR FROM OTHER SOURCES. SUITABLE SOIL IS FREE FROM ORGANIC MATTER, ROCKS AND STONES, FROZEN MATERIAL, BROKEN CONCRETE, AND DEBRIS.

EMBANKMENT CONSTRUCTED OF GRANULAR SOILS SHALL BE COMPACTED IN LIFTS NOT EXCEEDING 10 INCHES

EMBANKMENT CONSTRUCTED OF COHESIVE SOILS SHALL BE COMPACTED IN LIFTS NOT EXCEEDING 10 INCHES TO AT LEAST 95% OF ITS MAXIMUM UNIT WEIGHT

THE MAXIMUM UNIT WEIGHT OF SAND AND OTHER GRANULAR SOILS WILL BE DETERMINED BY THE ONE POINT CONE TEST, AS DESCRIBED IN THE MICHIGAN DEPARTMENT OF TRANSPORTATION'S DENSITY TESTING AND INSPECTION MANUAL, EXCEPT WHEN ANOTHER TEST METHOD IS SPECIFIED.

THE MAXIMUM UNIT WEIGHT OF COHESIVE SOILS WILL BE DETERMINED BY THE ONE POINT PROCTOR TEST. AS DESCRIBED IN THE MICHIGAN DEPARTMENT OF TRANSPORTATION'S DENSITY TESTING AND INSPECTION MANUAL, EXCEPT WHEN ANOTHER TEST METHOD IS SPECIFIED.

UNLESS PROVIDED OTHERWISE IN THE CONTRACT DOCUMENTS OR LIMITED BY LOCAL ORDINANCE, THE CONTRACTOR SHALL WORK WITHIN OF THE FOLLOWING TIMES, UNLESS OTHERWISE APPROVED BY THE OWNER:

MONDAY THROUGH FRIDAY: DAYLIGHT HOURS ONLY SATURDAY: MUST BE APPROVED BY ENGINEER SUNDAY: NO WORK WILL BE ALLOWED

THE CONTRACTOR SHALL NOT WORK ON SUNDAYS OR HOLIDAYS, UNLESS OTHERWISE APPROVED BY THE

LANDSCAPING

WHERE LANDSCAPING WITHIN THE PUBLIC RIGHT-OF-WAY WILL INTERFERE WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS THAT IT IS THEIR RESPONSIBILITY TO REMOVE OR RELOCATE THEIR LANDSCAPING. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A

WHERE THE OWNER HAS NOT REMOVED THEIR LANDSCAPING, THE CONTRACTOR SHALL CONTINUE WORK PER PLAN AS SCHEDULED. THE LANDSCAPING WILL BE REMOVED BY THE CONTRACTOR AND THE AREA WILL BE RESTORED PER PLANS AND SPECIFICATIONS.

DRAINAGE

THE CONTRACTOR SHALL MAINTAIN DRAINAGE OF THE PROJECT AREA AND ADJACENT AREAS. WHERE EXISTING DRAINAGE FACILITIES ARE DISTURBED OR BLOCKED BY CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY PROVISIONS FOR DRAINAGE.

WHERE CONSTRUCTION HAS DISTURBED EXISTING DITCHES, SWALES, OR OTHER DRAINAGE FACILITIES: THE CONTRACTOR SHALL RESTORE THEM TO THEIR GRADES AND DIMENSIONS WHICH EXISTED PRIOR TO THE BEGINNING OF CONSTRUCTION, UNLESS DIRECTED OTHERWISE.

DRAINAGE SHALL NOT BE REROUTED ONTO ADJACENT PROPERTIES NOR ALLOWED TO DRAIN ONTO ADJACENT PROPERTIES AT AN INCREASED RATE, AS A RESULT OF THE CONTRACTOR'S WORK.

A MISCELLANEOUS QUANTITY OF Underdrain, Subbase, 6 inch AND Underdrain, Outlet Ending, 6 inch HAS BEEN INCLUDED FOR UNDERDRAIN PLACEMENT AT LOCATIONS AS DIRECTED BY THE ENGINEER.

ROAD PROJECTS

ADJUSTING STRUCTURES

WHERE CASTINGS FOR MANHOLES, CATCH BASINS, INLETS, VALVE BOXES, AND MONUMENT BOXES ARE TO BE ADJUSTED TO MEET A NEW PAVEMENT SURFACE ELEVATION, THE FINAL ADJUSTMENT SHALL NOT BE COMPLETED UNTIL ALL PAVEMENT COURSES HAVE BEEN PLACED EXCEPT THE FINAL COURSE. THE FINAL ADJUSTMENT SHALL BE COMPLETED JUST PRIOR TO PLACEMENT OF THE FINAL COURSE OF PAVEMENT.

THE MATERIALS AND PROCEDURES FOR ADJUSTING STRUCTURES SHALL MEET THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION OVER THE ROAD AND UTILITIES.

SUBGRADE PREPARATION

TOPSOIL, PEAT, AND ORGANIC MATERIAL SHALL BE EXCAVATED AND REMOVED.

SOFT AND YIELDING SOILS SHALL BE REMOVED OR DRIED IF THE RESULT OF EXCESSIVE MOISTURE CONTENT.

PRIOR TO CONSTRUCTING FILLS, SUBBASE, OR PAVEMENT ON A SUBGRADE; THE SUBGRADE SHALL BE PROOF-ROLLED TO DETERMINE THE SUITABILITY OF THE SUBGRADE. THE CONTRACTOR SHALL DRIVE A HEAVY PIECE OF WHEELED CONSTRUCTION EQUIPMENT OVER THE SUBGRADE WHILE THE ENGINEER IS OBSERVING. THE CONSTRUCTION OF FILES, SUBBASE, OR PAVEMENTS SHALL NOT PROCEED UNTIL THE SUBGRADE HAS BEEN DEMONSTRATED TO BE FREE OF SOFT AREAS.

THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE MOISTURE CONTENT OF SUBGRADE SOILS WITHIN A SUITABLE RANGE TO ALLOW FOR COMPACTION TO THE REQUIRED DENSITY. WHEN THE SOIL IS TOO DRY THE CONTRACTOR SHALL ADD WATER. WHEN THE SOIL IS TOO WET, THE CONTRACTOR SHALL PROVIDE

THE SURFACE OF THE SUBGRADE SHALL BE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM UNIT WEIGHT, PRIOR TO CONSTRUCTING FILLS, SUBBASE, OR PAVEMENTS.

THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DIMENSIONS OF CURB OPENINGS FOR DRIVEWAYS, RAMPS, AND DRAINAGE STRUCTURES.

HOT MIX ASPHALT (HMA) PAVING

PAVEMENTS WHICH ARE TO BE OVERLAID WITH A NEW PAVEMENT COURSE SHALL BE SWEPT TO REMOVE ALL

A BITUMINOUS BOND COAT SHALL BE APPLIED TO PAVEMENTS WHICH ARE TO BE OVERLAID WITH A NEW PAVEMENT COURSE AND ALLOWED TO CURE PRIOR TO CONSTRUCTING THE NEW PAVEMENT COURSE.

HMA PAVEMENT SHALL NOT BE PLACED WHEN THE SURFACE BEING OVERLAID IS WET, OR WHEN RAIN IS FORECAST OR THREATENING.

DRIVEWAY CONSTRUCTION

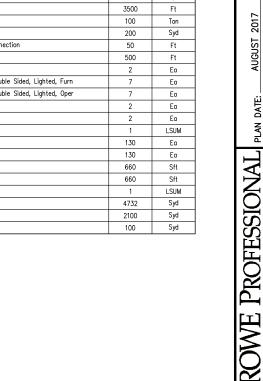
DRIVEWAY SLOPES SHALL NOT EXCEED 10%, EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE ON THE

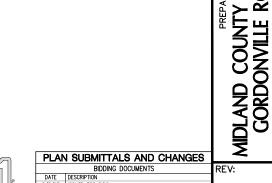
THE CONTRACTOR SHALL PROVIDE PROPERTY OWNERS WITH SUITABLE NOTICE BEFORE REMOVING AND REPLACING AN EXISTING DRIVEWAY.

CULVERT NOTES

PIPE MATERIAL SHALL BE DOUBLE WALL PLASTIC PIPE MEETING ASTM F2881. CULVERTS SHALL BE MANDREL TESTED AND MDOT FORM 1975 SHALL BE COMPLETED.

MISCELLANEOUS QUANTITIES				
DESCRIPTION	QUANTITY	UNITS		
Mobilization, Max 10%	1	LSUM		
Clearing	1	Acre		
Subgrade Undercutting, Type II	100	Cyd		
Erosion Control, Silt Fence	3500	Ft		
Maintenance Gravel	100	Ton		
Geotextile, Separator	200	Syd		
Sump Pump Lead and Drain Tile Connection	50	Ft		
Underdrain, Subbase, 6 inch	500	Ft		
Underdrain, Outlet Ending, 6 inch	2	Ea		
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	7	Εa		
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	7	Ea		
Lighted Arrow, Type C, Furn	2	Ea		
Lighted Arrow, Type C, Oper	2	Ea		
Minor Traf Devices	1	LSUM		
Plastic Drum, High Intensity, Furn	130	Ea		
Plastic Drum, High Intensity, Oper	130	Ea		
Sign, Type B, Temp, Prismatic, Furn	660	Sft		
Sign, Type B, Temp, Prismatic, Oper	660	Sft		
Traf Regulator Control	1	LSUM		
Slope Restoration, Type B	4732	Syd		
Slope Restoration, Type C	2100	Syd		
Slope Restoration, Type D	100	Syd		





Know what's below. Call before you dig.

SHT# 3 OF 28 JOB No. 16M0094

SCAL

9

AUGUST

DATE:

PLAN

COMPANY

SERVICES

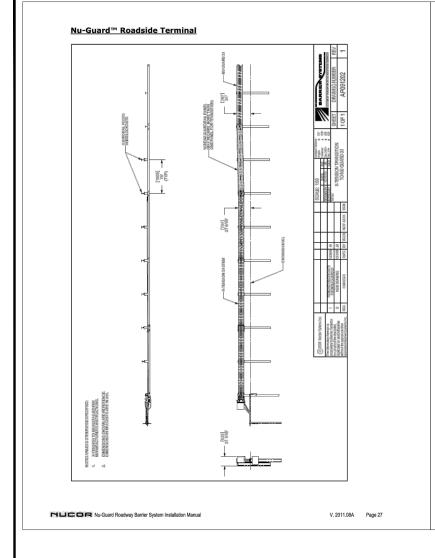
COMMISSION AFETY IMP.

ROAD OAD S/

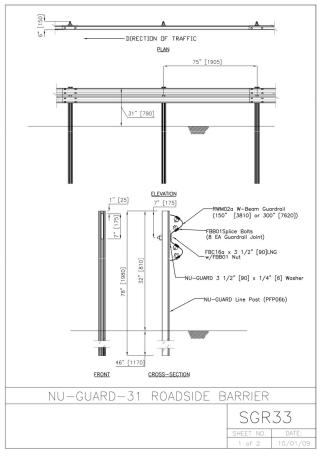
SHEE-

NOTE

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Nu-Guard-31™ Roadside Option - DIRECTION OF TRAFFIC



INTENDED USE

The NU-GUARD-31 system is a corrugated metal w-beam barrier for use on national, state and local roadways to prevent collisions with hazards as required by safety design standards. The system is designed for roadside applications as an alternate to SGR04, and equivalent to other 31" [790] mounting height w-beam barriers (such as SGR20), for strong or weak post applications. The system may be connected to any crashworthy 31" [790] mounting height guardrail terminal or transition system. The system is to be installed on approach slopes no greater than 10H:1V, wherever a maximum working deflection of 41" [1050] is required for TL-3 applications, and 48" [1220] for TL-

COMPONENTS

The posts are Rib-Bak U-Channel sign posts 5 lb/ft [7.4 kg/m] fabricated from hot rolled carbon steel bars conforming to the requirements of NUCOR/Marion Steel Company Grade SP-80 with a minimum yield point of 80,000 psi [552 Mpa]

Unit length = 150" [3810]					
Designator	Designator Component				
RWM02a	W-beam rail	1			
PFP06b	NU-GUARD Line Post	2			
	NU-GUARD 3 1/2" [90] x 1/4" [6] Washer	2			
FBC16a	3 1/2" [90] Guardrail-post bolt and nut	2			
FBB01	Splice bolt and nut	8			

The system meets NCHRP-350 TL-4 and MASH-08 TL-3 requirements as a longitudinal barrier.

AGENCY ACCEPTANCE

FHWA Acceptance Letter B-162, 09/11/2007

CONTACT INFORMATION

Nucor Steel Marion Inc., 912 Cheney Avenue Marion, Ohio 43301-1801 (800) 333-4011 (740) 383-6429 Fax www.nucorhighway.com

NU-GUARD-31 ROADSIDE BARRIER

SGR33		
SHEET NO.	DATE	
2 62	10/01/2000	

NUCOR

BAR MILL GROUP NUCOR STEEL MARION, INC.

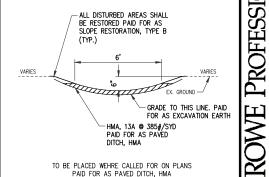
All Nucor Steel Marion Inc. products are produced from 100% recycled steel

NUCOR Nu-Guard Roadway Barrier System Installation Manua

V. 2011.08A Page 23

PROP HMA SHLD GEOTEXTILE LINER -RIPRAP BASIN (EST 6' X 4') PAVED DITCH, I'MIN OVERLAP

PERPENDICULAR HMA SPILLWAY DETAIL



TO BE PLACED WEHRE CALLED FOR ON PLANS PAID FOR AS PAVED DITCH, HMA

NUTE:
THE HMA SPILLWAY SHALL BE CONSTRUCTED TO THE HMA LEVELING
COURSE ELEVATION ADJACENT TO THE PROPOSED PAVED SHOULDER.
FEATHERING WILL BE REQUIRED FOR THE PLACEMENT OF THE TOP
HMA COURSE.

SECTION B-B

PROPOSED CULV, CL F, _ INCH

S B

SERVICES

SCALE S

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AUGUST

DATE:

PLAN

PROFESSIONAL

COMPANY

MIDLAND COUNTY ROAD COMMISSION GORDONVILLE ROAD SAFETY IMP.

SHEET

DETAIL:

PLAN SUBMITTALS AND CHANGES BIDDING DOCUMENTS

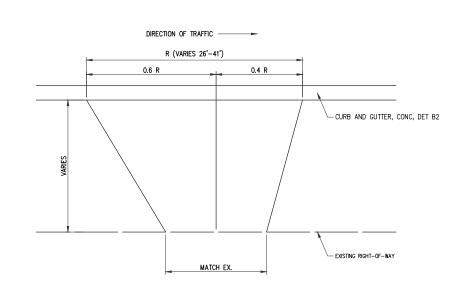
DESCRIPTION

PROPOSED DITCH BOTTOM

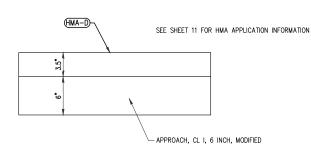
REV: SHT# 4 OF 28 JOB No: 16M0094

GUARDRAIL, TYPE T, MODIFIED DETAILS

NUCOR Nu-Guard Roadway Barrier System Installation Manua

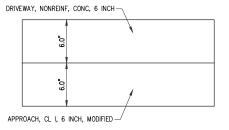


DRIVEWAY REPAIR DETAIL

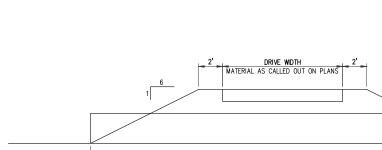


V. 2011.08A Page 2

HMA DRIVEWAY SECTION



CONCRETE DRIVEWAY SECTION

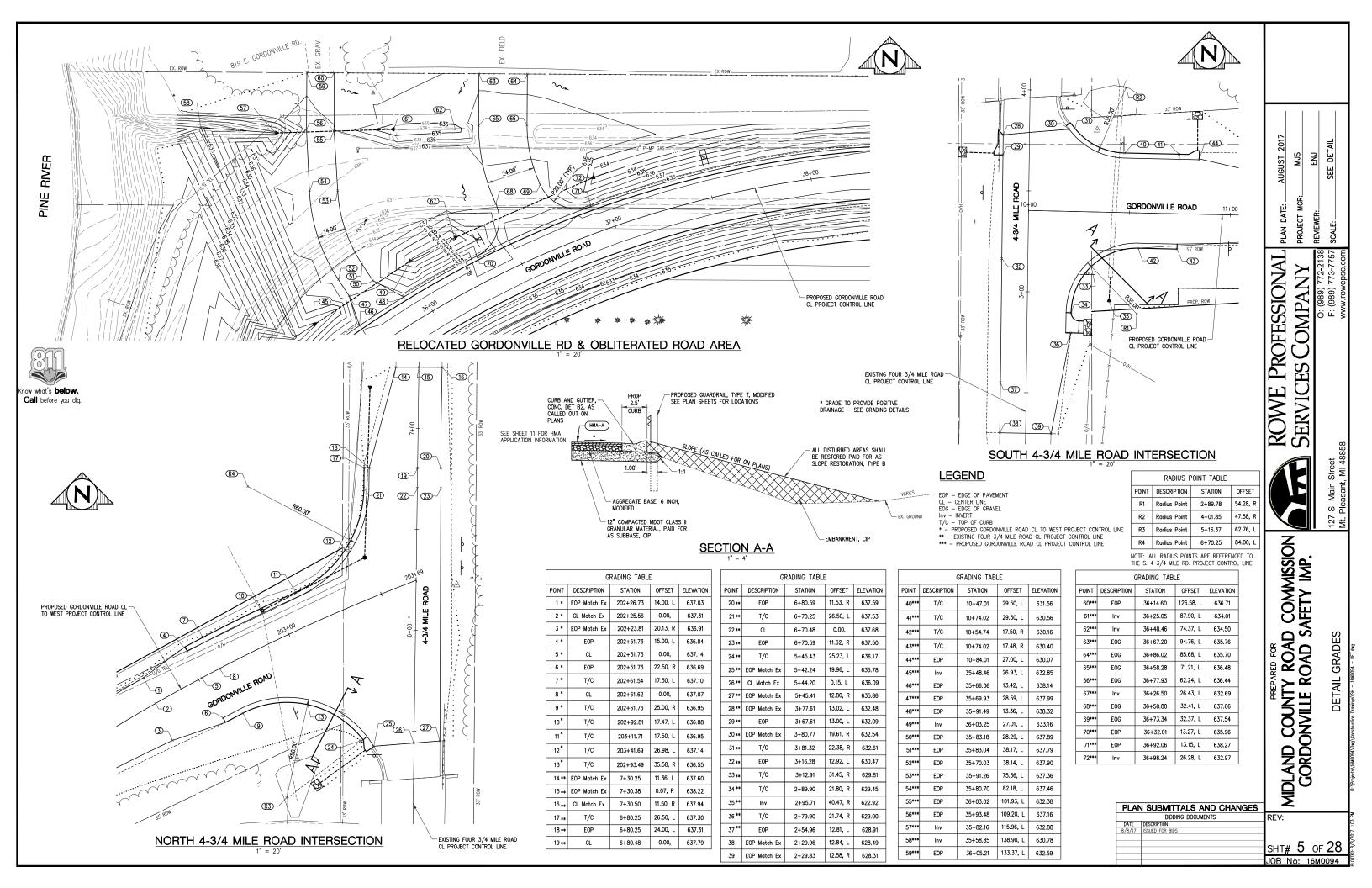


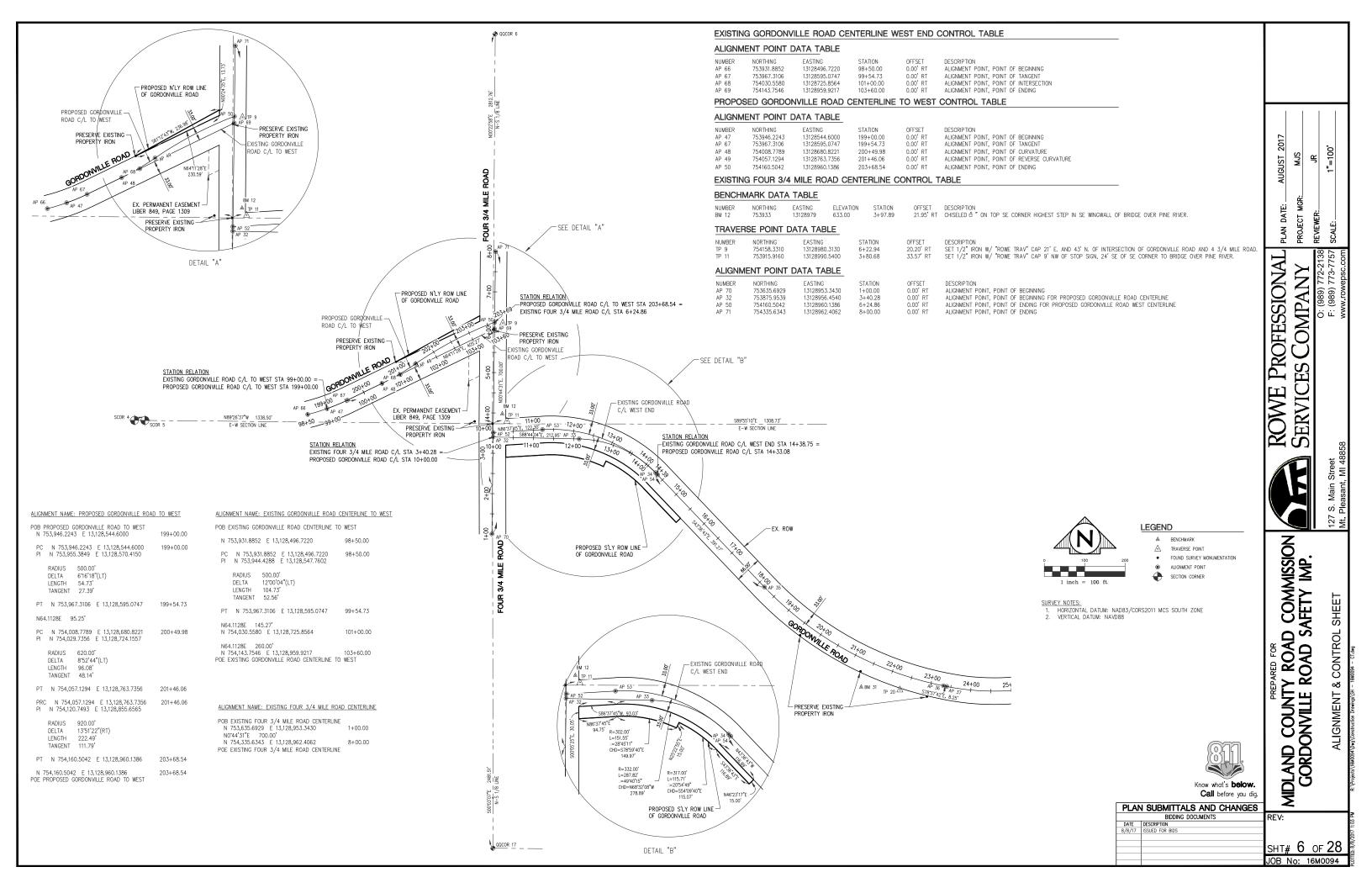
TYPICAL CROSS SECTION - ALL DRIVES

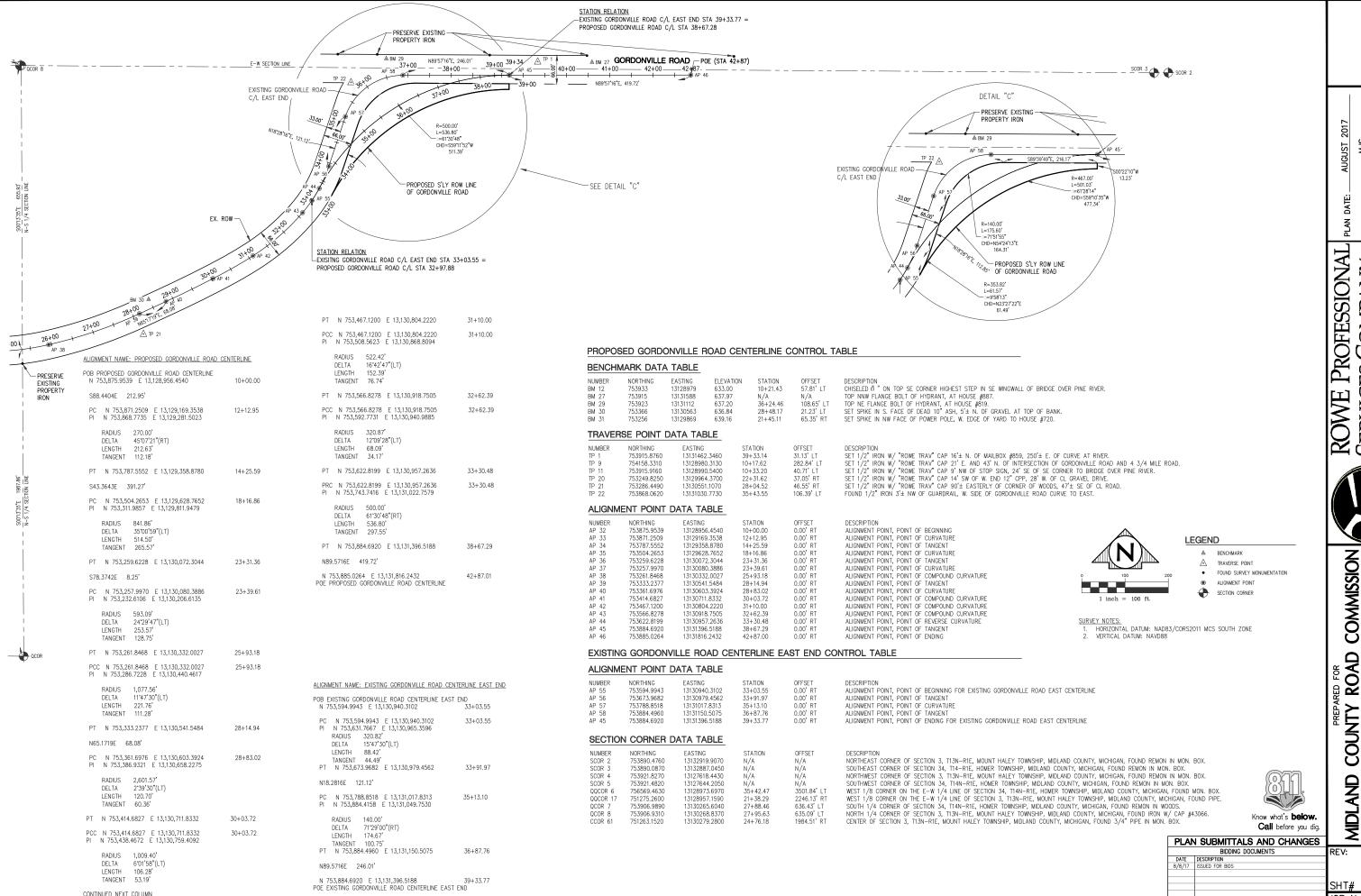
PAY LENGTH OF DRIVE CULVERT



Call before you dig.







PLAN ROWE PROFESSIONAL COMPANY SERVICES

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CONTROL

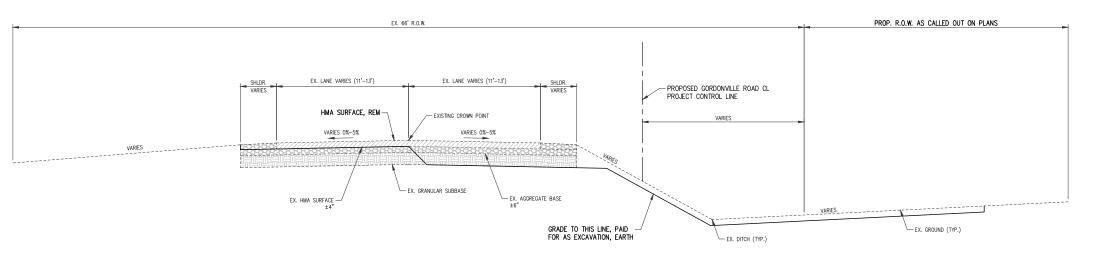
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ALIGNMENT

COMMISSION SAFETY IMP.

ROAD S DLAND COUNTY I GORDONVILLE RC

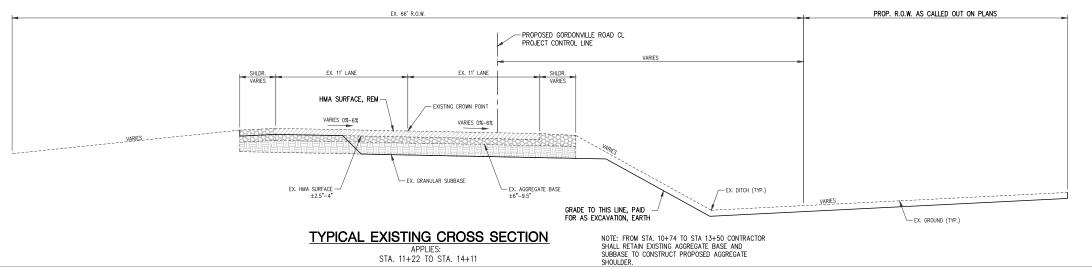
REV: SHT# 7 OF 28 APPLIES: P.O.B. (STA. 100+00) TO STA. 103+42



TYPICAL EXISTING CROSS SECTION

APPLIES: STA. 10+19 TO STA. 11+22

NOTE: FROM STA. 10+74 TO STA 13+50 CONTRACTOR SHALL RETAIN EXISTING AGGREGATE BASE AND SUBBASE TO CONSTRUCT PROPOSED AGGREGATE



Know what's **below.**

PLAN SUBMITTALS AND CHANGES
BIDDING DOCUMENTS
DATE DESCRIPTION
8/8/17 ISSUED FOR BIDS

MIDLAND COUNTY ROAD COMMISSION GORDONVILLE ROAD SAFETY IMP. SHT# 8 OF 28 JOB No: 16M0094

TYPICAL SHEET

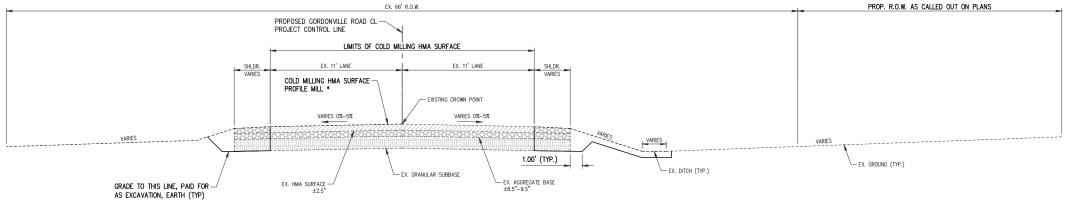
AUGUST 2017

PLAN DATE: -

ROWE PROFESSIONAL

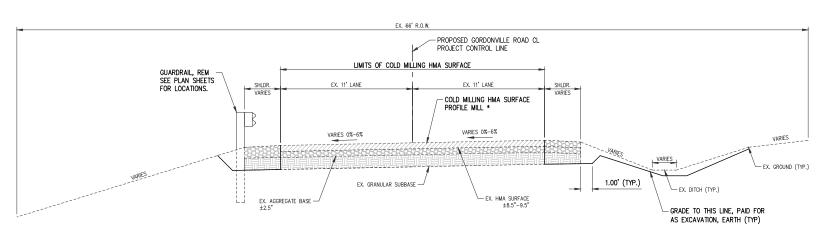
SERVICES COMPANY

NO SCALE



TYPICAL EXISTING CROSS SECTION

APPLIES:
STA. 14+11 TO STA. 19+10
STA. 28+20 TO STA. 29+10
* MILLING DEPTH VARIES TO ACHIEVE PROPOSED PROFILE

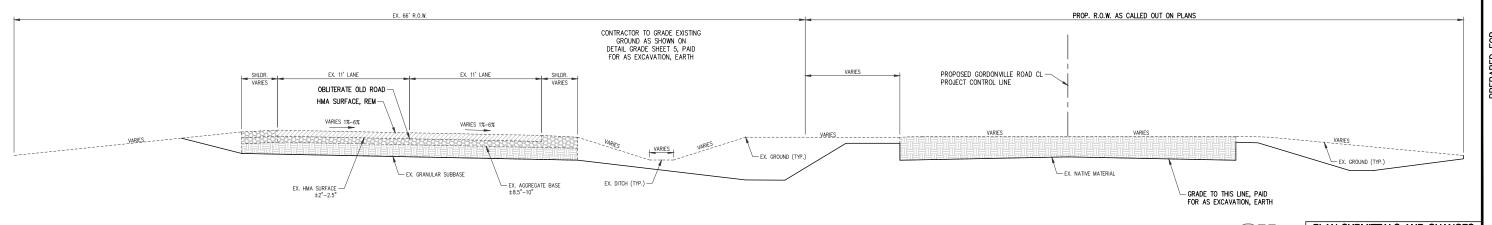


TYPICAL EXISTING CROSS SECTION

APPLIES:
STA. 19+10 TO STA. 28+20
STA. 29+10 TO STA. 33+30
* MILLING DEPTH VARIES TO ACHIEVE PROPOSED PROFILE

START STATION	END STATION	START MILLING PROFILE	END MILLING PROFILE	CONTROL PT.	DEPTH AT CONTROL PT
STA 14+11 START MILLING	STA 14+75	2.9% 2.9%	2% 2%	CENTERLINE OF PAVEMENT	1.0"
STA 14+75	STA 15+24	2% 2%	0% 2%	CENTERLINE OF PAVEMENT	1.0"
STA 15+24	STA 15+73	0% 2%	2% 2%	CENTERLINE OF PAVEMENT	1.0"
STA 15+73	STA 16+70	2% 2%	2% 2%	CENTERLINE OF PAVEMENT	1.0"
STA 16+70	STA 17+19	2% 2%	2% 0%	CENTERLINE OF PAVEMENT	1.0"
STA 17+19	STA 17+68	2% 0%	2% 2%	CENTERLINE OF PAVEMENT	1.0"
STA 17+68	STA 18+66	2% 2%	6% 6%	CENTERLINE OF PAVEMENT	1.0"
STA 18+66	STA 27+66	<u>6%</u> <u>6%</u>	6% 6%	LEFT EDGE OF PAVEMENT	1.0"
STA 27+66	STA 28+64	6% 6%	2% 2%	CENTERLINE OF PAVEMENT	1.0"
STA 28+64	STA 28+81	2% 2%	2% 2%	CENTERLINE OF PAVEMENT	1.0"
STA 28+81	STA 29+08	2% 2%	3.1% 3.1%	CENTERLINE OF PAVEMENT	1.0"
STA 29+08	STA 29+80	3.1% 3.1%	3.1% 3.1%	CENTERLINE OF PAVEMENT	1.0"
STA 29+80	STA 30+53	3.1% 3.1%	6% 6%	LEFT EDGE OF PAVEMENT	1.0"
STA 30+53	STA 31+83	<u>6%</u> <u>6%</u>	6% 6%	LEFT EDGE OF PAVEMENT	1.0"
STA 31+83	STA 33+30 STOP MILLING	6% 6%	0% 0%	CENTERLINE OF PAVEMENT	1.0"

GORDONVILLE ROAD PROFILE MILLING CHART



TYPICAL EXISTING CROSS SECTION

APPLIES: STA. 33+30 TO STA. 36+88

Know what's below. Call before you dig.

PLAN SUBMITTALS AND CHANGES | DATE | DESCRIPTION | 8/8/17 | ISSUED FOR 201

REV: SHT# 9 OF 28 JOB No: 16M0094

ROWE PROFESSIONAL SERVICES

AUGUST 2017

PLAN DATE:

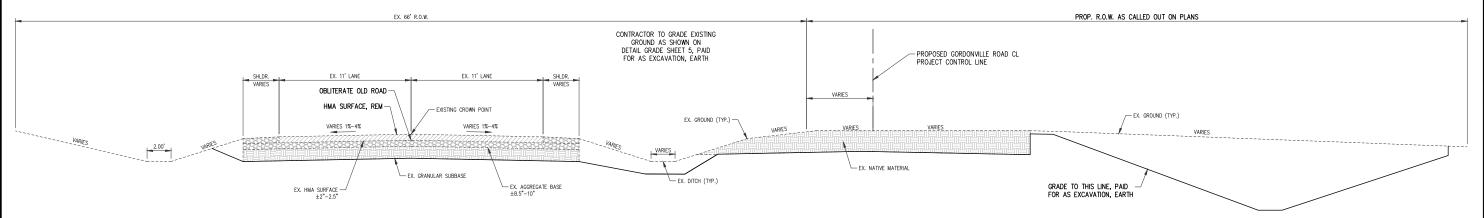
COMPANY

SCALE

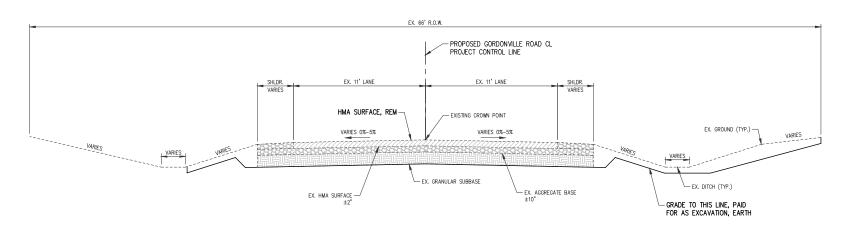
9

MIDLAND COUNTY ROAD COMMISSION GORDONVILLE ROAD SAFETY IMP.

TYPICAL SHEET



TYPICAL EXISTING CROSS SECTION APPLIES: STA. 36+88 TO STA. 38+67



TYPICAL EXISTING CROSS SECTION

APPLIES: STA. 38+67 TO P.O.E. (STA 42+87)



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	PLA	N SUBMITTALS AND CHANGES	_
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ig.			JOB No: 16M0094

ROWE PROFESSIONAL SERVICES COMPANY

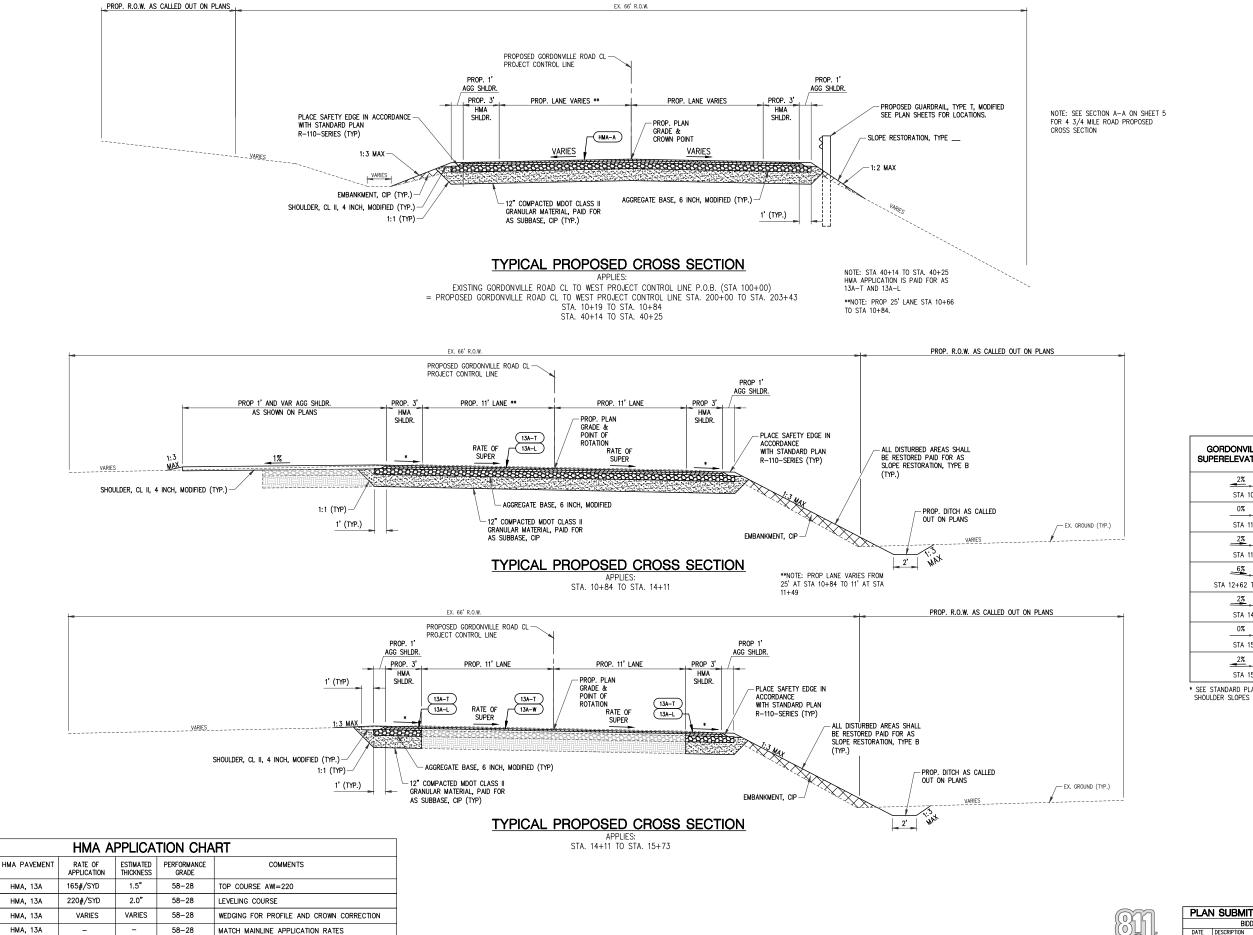
AUGUST 2017 MJS

PLAN DATE:

ENJ NO SCALE

LAND COUNTY ROAD COMMISSION SORDONVILLE ROAD SAFETY IMP.

TYPICAL SHEET
Drawings\SH - 1640094 - 17P-deg



ITEM

13A-T HMA, 13A

13A-L HMA, 13A

13A-W | HMA, 13A

HMA-A HMA APPROACH

HMA-D HMA APPROACH

HMA BOND COAT

HMA, 13A

385#/SYD

0.05-0.15 GAL

58-28

HMA, 13A @ 165#/SYD AND HMA, 13A @ 220#/SYD FOR DRIVEWAYS

NOT A PAY ITEM; FOR INFORMATION ONLY

IDENT NO

GORDONVILLE ROAD SUPERELEVATION CHART
2% 2%
STA 10+66
0% 2%
STA 11+15
2% 2%
STA 11+64
6% 6%
STA 12+62 TO STA 13+77
2% 2%
STA 14+75
0% 2%
STA 15+24
2% 2%
STA 15+73

SCALE

9

AUGUST

PLAN DATE:

ROWE PROFESSIONAL

COMPANY

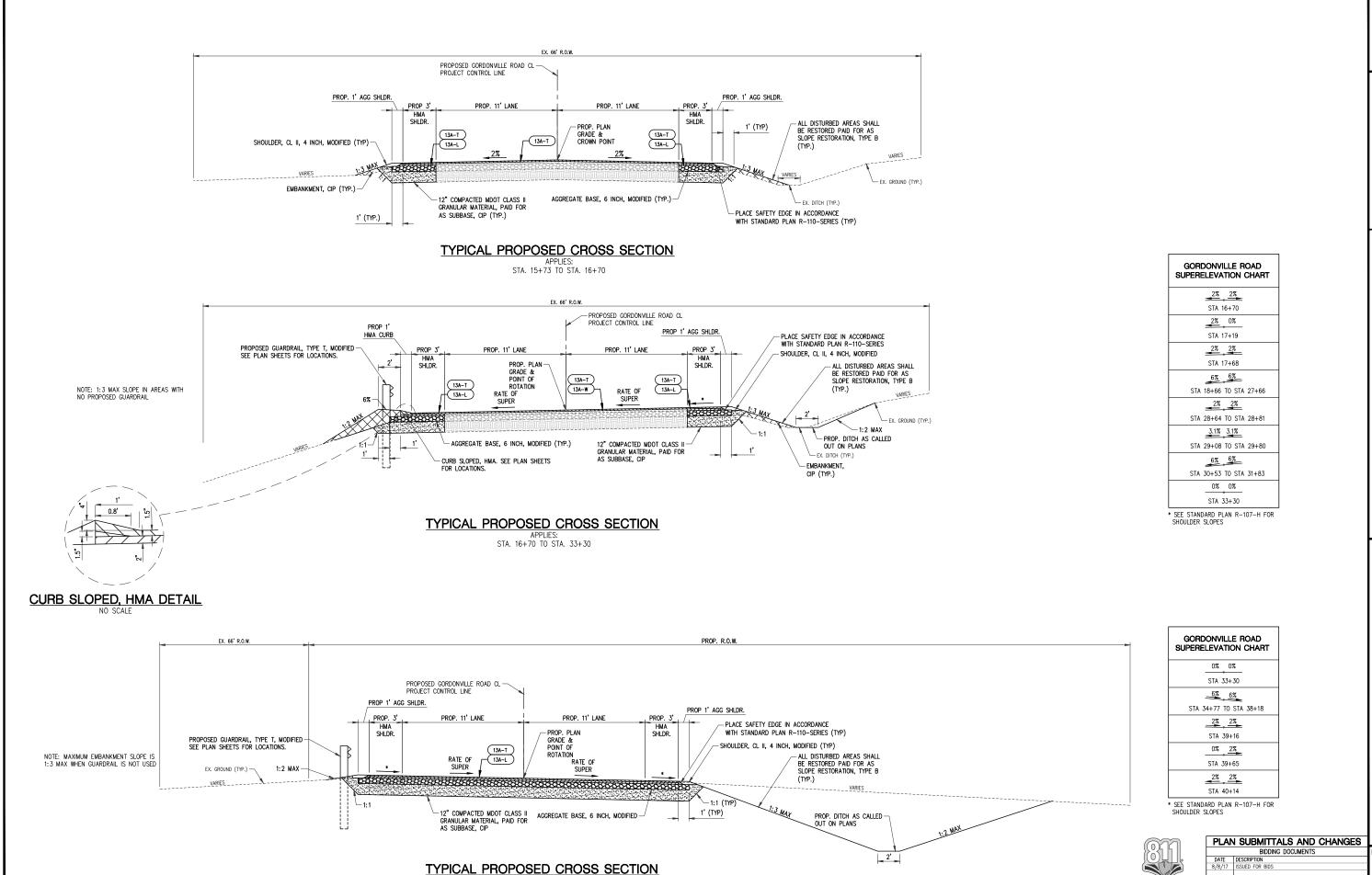
SERVICES

SHEET

* SEE STANDARD PLAN R-107-H FOR

Know what's below. Call before you dig.

STA 12+62 TO STA 13+77 2% 2% STA 14+75 0% 2% STA 15+24 2% 2% STA 15+73 SEE STANDARD PLAN R-107-H FOR SHOULDER SLOPES	PREPARED FOR LE ROAD SAFETY IMP.
PLAN SUBMITTALS AND (MIDLAND COUL GORDONVIL
BIDDING DOCUMENTS	REV:
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	SHT# 11 OF 2
	JOB No: 16M00



APPLIES: STA. 33+30 TO STA. 40+14

AUGUST PLAN DATE: ROWE PROFESSIONAL COMPANY SERVICES

SCALE

MIDLAND COUNTY ROAD COMMISSION GORDONVILLE ROAD SAFETY IMP.

SHEET

Know what's below. Call before you dig. SHT# 12 OF 28



101+54 14.4'R MP 701 101+54 14.2'R GUARD RAIL REM

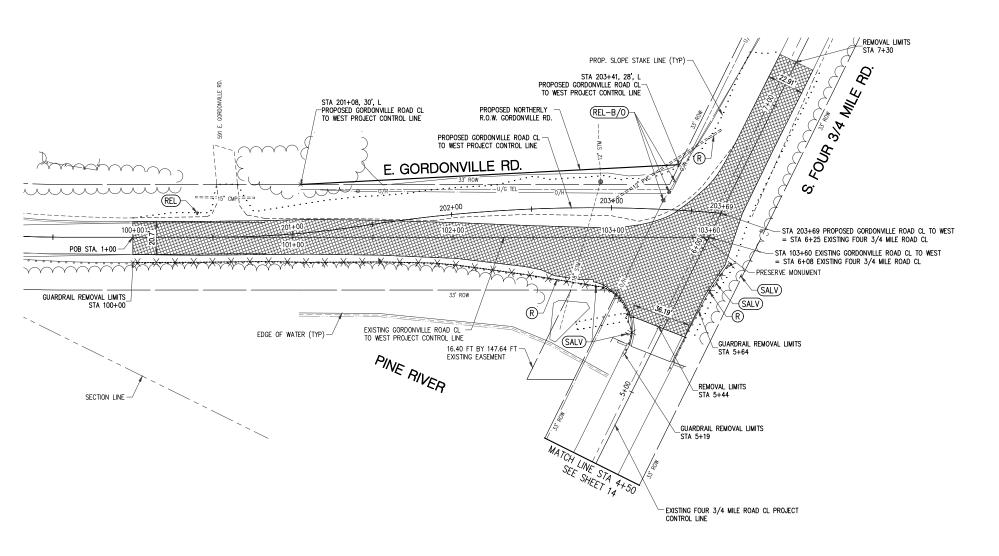
101+10 18.8°R HEAVY WOODS 101+10 15.7°R GUARD RAIL





SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNIT
Culv, Rem, Less than 24 inch	1	Ea
Guardrail, Rem	387	Ft
Excavation, Earth	1195	Cyd
HMA Surface, Rem	1546	Syd
Sign, Type III, Rem	4	Ea
Monument Preservation	1	Ea



102+90 31.0'R STOP SIGN SALV

102+67 39.4'R RIP RAP 102+67 57.4'R 18" RND PLASTIC

103+56 0.0'R IRON ROD SAVE

6+69 28.2'R HEAVY WOODS

6+26 27.6'R GUY POLE 6+26 32.4'R GUY WIRE 6+23 20.2'R TP 9

REM 6+00 19.0'R GUARD RAIL SALV 5+95 28.9'R MISC SIGN SALV 5+84 17.5'R STREET SIGN

5+46 26.4'R HEAVY WOODS

REM 5+46 14.4'R GUARD RAIL

AUGUST 2017

PLAN DATE:

ROWE PROFESSIONAL

SERVICES COMPANY

1"=30' S

7 S. Main Street Pleasant, MI 488

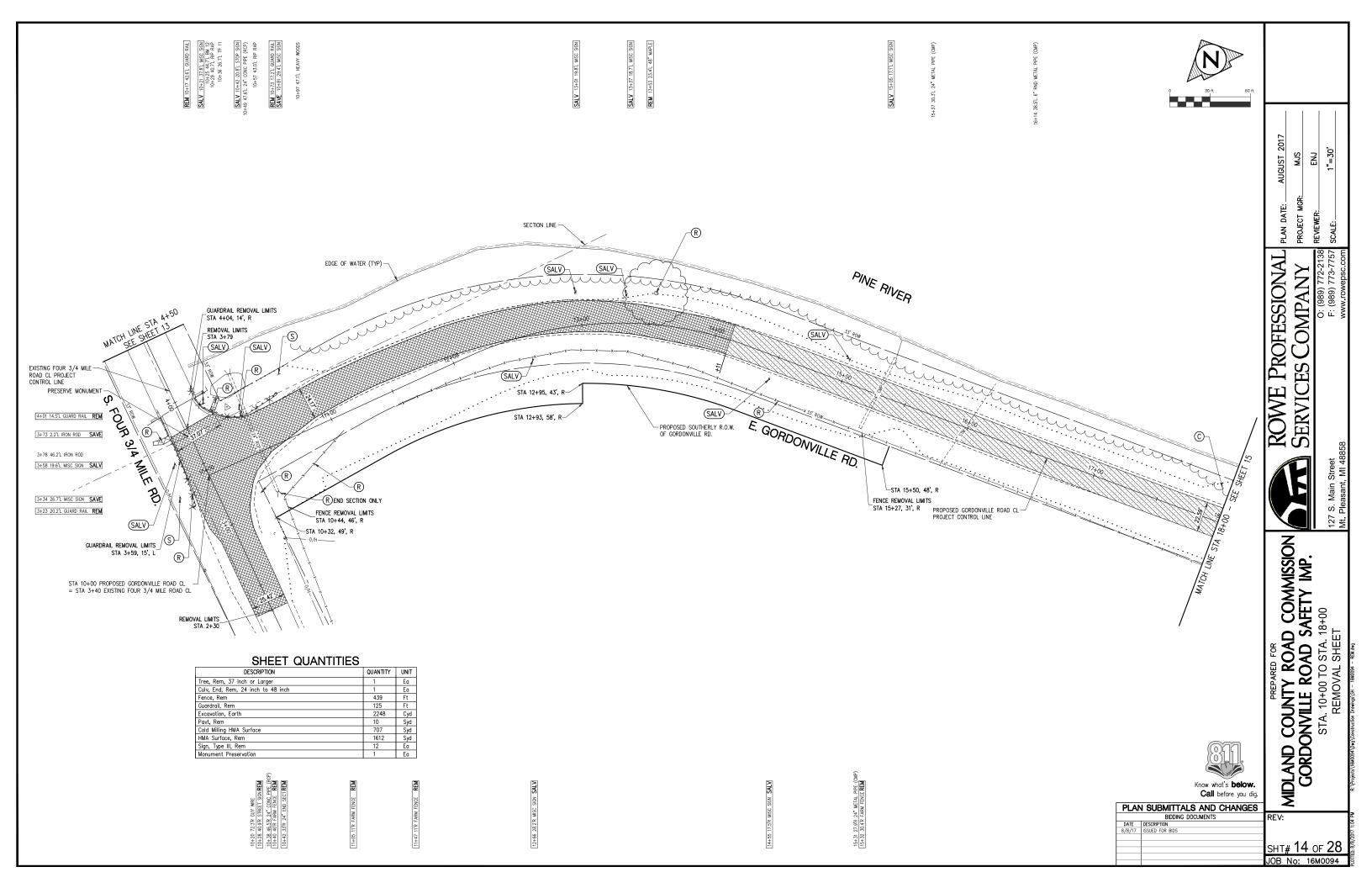
MIDLAND COUNTY ROAD COMMISSION
CORDONVILLE ROAD SAFETY IMP.
POB TO STA 103+60
REMOVAL SHEET

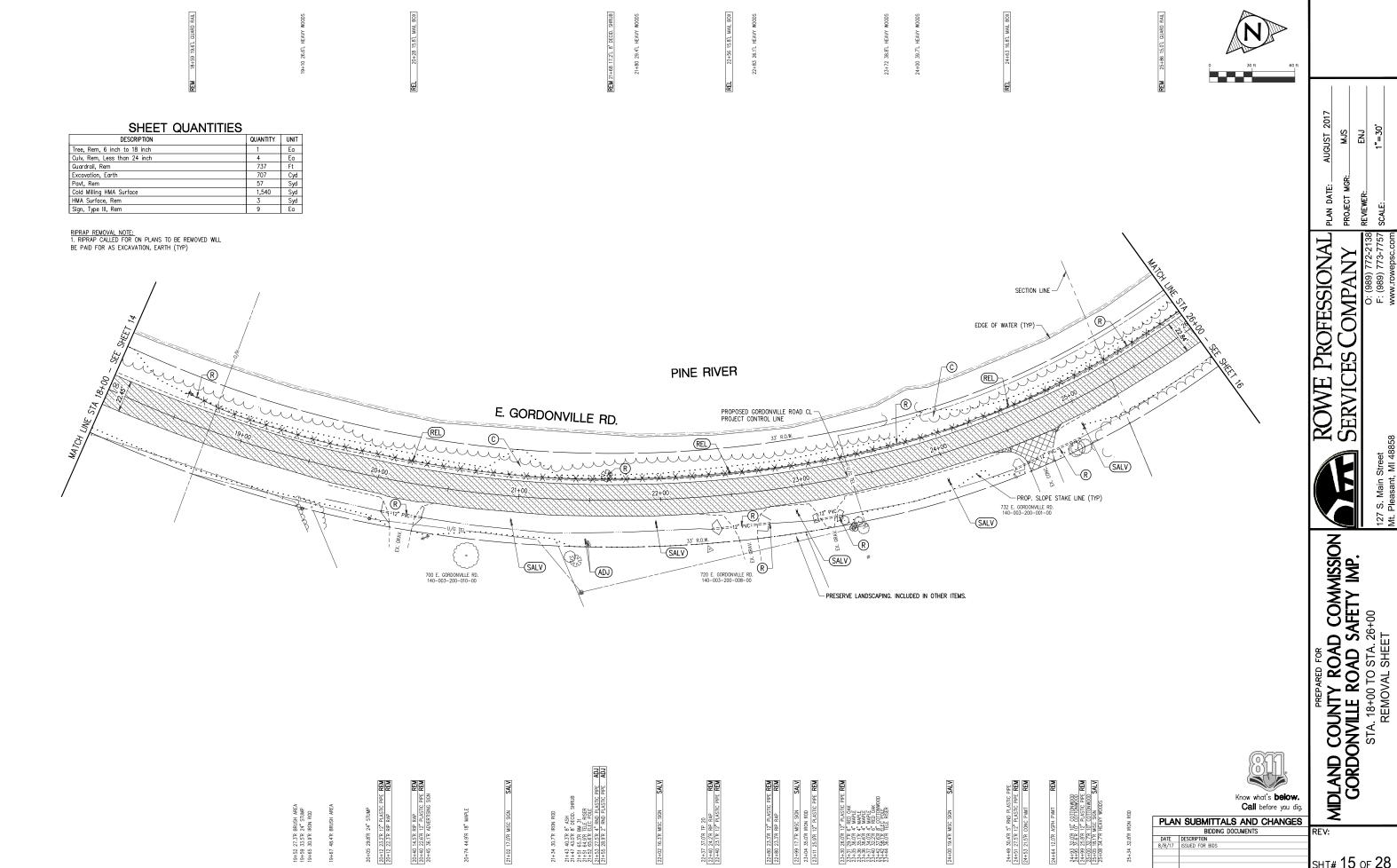
Know what's **below.** Call before you dig.

PLAN SUBMITTALS AND CHANGES
BIDDING DOCUMENTS
DATE DESCRIPTION
8/8/17 ISSUED FOR BIDS

SHT# 13 OF 28 JOB No: 16M0094

99+24 23.8'R HEAVY WOODS 99+26 14.2'R GUARD RAIL

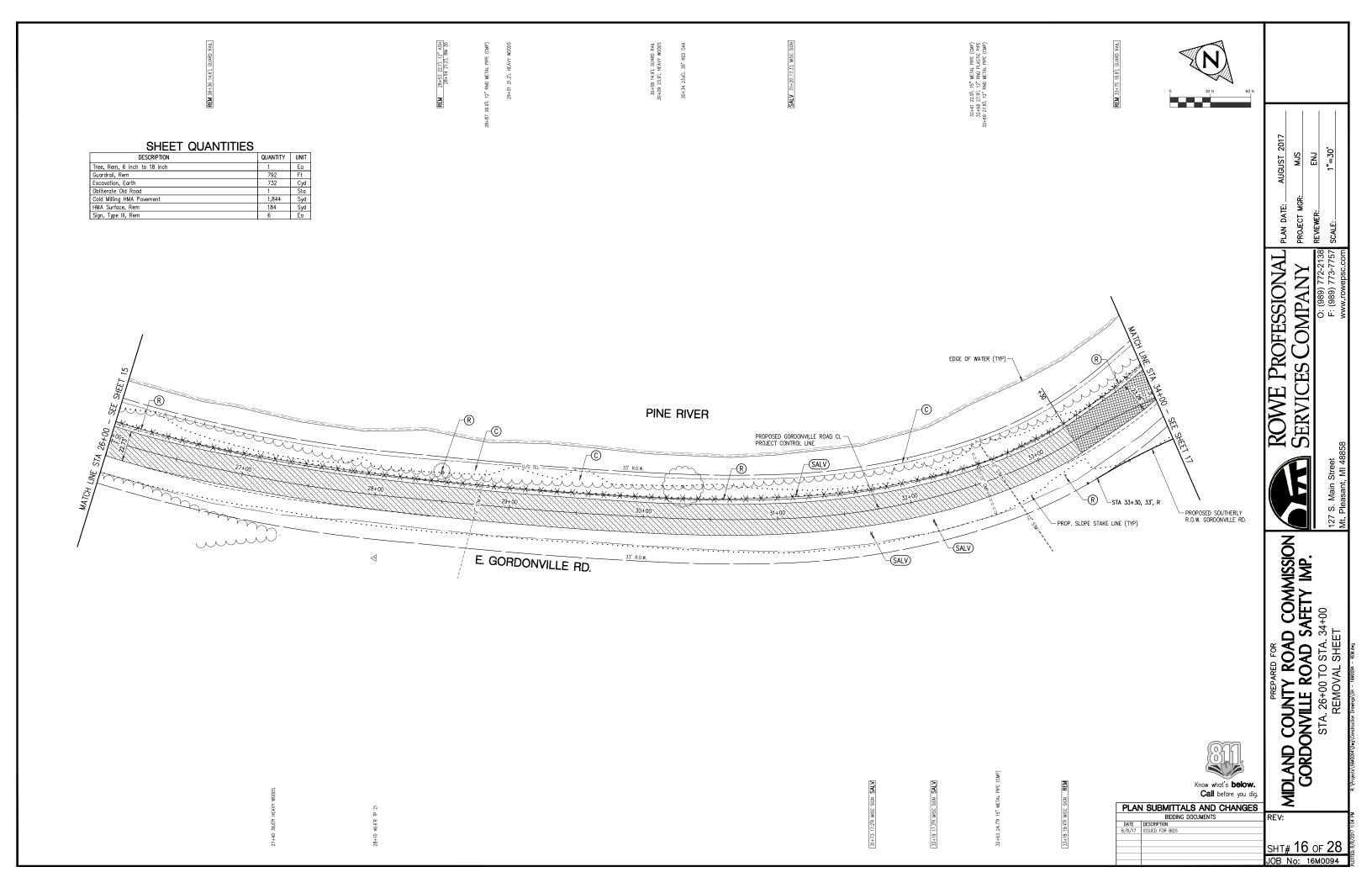


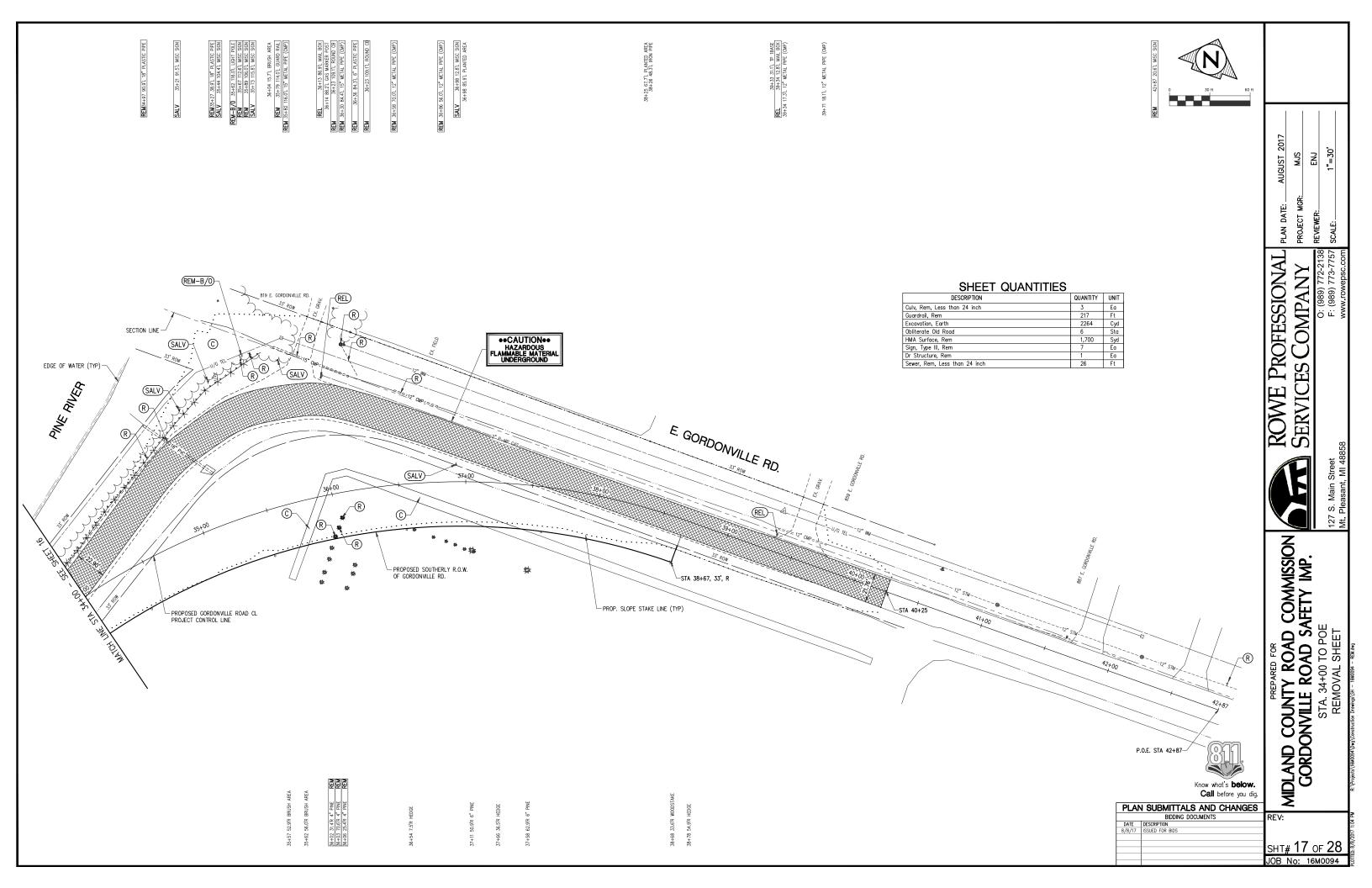


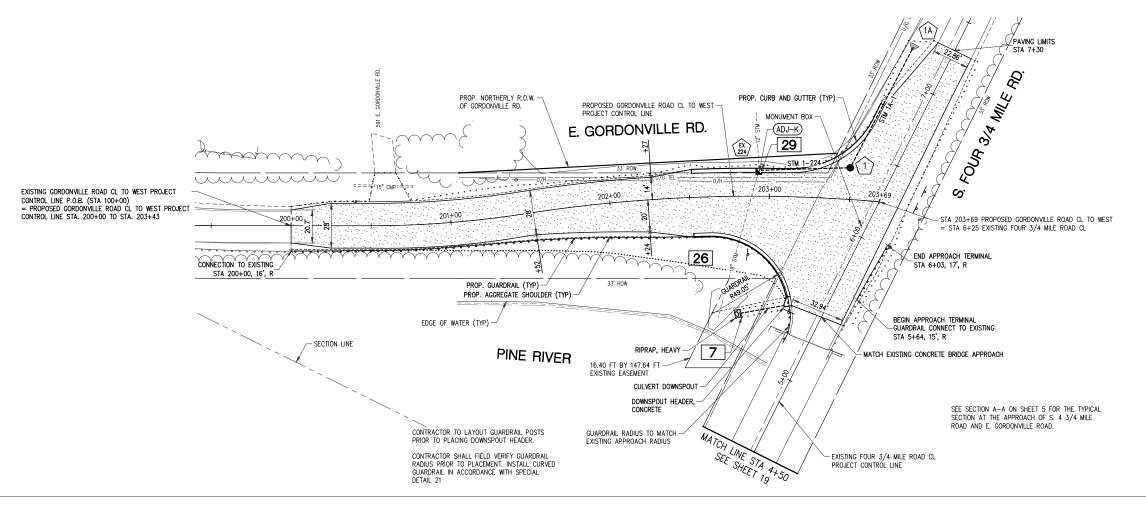
1"=30' S

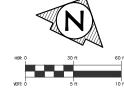
127 S. Main Street Mt. Pleasant, MI 488

SHT# 15 OF 28









	PROPOSED STORM SEWER STRUCTURE TABLE						
STRUCT NO.	DIA.	COVER TYPE	RIM ELEVATION	INVERT	STATION	OFFSET	
EX 224	N/A	к	T/C=636.88	12" 632.34 NE (PR) 12" 628.27 NW (EX) 18" 627.06 S (EX)	202+93.2	16.2 L	
1	48"	В	RIM=636.97	12" 632.91 SW (PR) 12" 632.91 N (PR)	203+49.1	19.8 L	

	PROPOS	SED STORM SEWER	PIPE TAE	BLE	
PIPE NUMBER			TOTAL LENGTH	SLOPE	TRENCH DETAIL B (T.D. B)
STM 1-224	12"	Sewer, Cl E, 12 inch	57'	1.00%	57'
STM 1A-1	12"	Sewer, Cl E, 12 inch	85'	3.05%	85'

		PROPOSED CULVER	RT END SECTION	ON TABLE	
STRUCT NO.	DIA.	PAY ITEM +	END OF PIPE INVERT *	END OF PIPE STATION	END OF PIPE OFFSET
1A	12"	Culv End Sect, 12 inch	12" 635.50	7+20.7	24.1 L

^{*} STATION AND OFFSET RELATES TO S. 4 3/4 MILE RD. PROJECT CONTROL LINE

	D	RIVEWAY &	APPROACH	SCHEDULE	
		RIG	HT OF WAY		
C/L DRIVEWAY STATION	EXIST. PVMT TYPE	WIDTH AT RIGHT OF WAY (FT)	WIDTH AT OPENING (FT)	LENGTH OF DRIVE RESTORATION (FT)	APPROACH, CL II, 6 INCH, MODIFIED (SYD)
200+61, LT	G	13.0	26.0	17.9	39

G = GRAVEL DRIVE, C = CONCRETE DRIVE, HMA = HMA DRIVE

SEE GRADING DETAIL 2% NORMAL CROWN PA STA _8.8 -0.66% 0.31% AL-PROP. GRADE AT PROPOSED GORDONVILLE ROAD CL TO WEST PROJECT CONTROL LINE —STM 1−224. EX. GRADE AT PROPOSED GORDONVILLE ROAD CL TO WEST PROJECT CONTROL 630 EX. 18" STM-620 EX. ELEV. OVER C.C.L. PROP. ELEV. OVER C.C.L. 636.8 **637.03** 638.7 638.47 638.4 636.8 637.15 200+00 201+00 202+00 203+00

SHEET OLIANTITIES

DESCRIPTION	QUANTITY	UNIT
Embankment, CIP	101	Cyd
Erosion Control, Inlet Protection, Fabric Drop	1	Ea
Subbase, CIP	797	Cyd
Approach, Cl I, 6 inch, Modified	2150	Syd
Shoulder, Cl II, 4 inch, Modified	193	Syd
Approach, Cl II, 6 inch, Modified	39	Syd
Culv, Downspout, 12 inch	28	Ft
Culv End Sect, 12 inch	1	Ea
Dr Marker Post	1	Ea
Sewer, Cl E, 12 inch, Tr Det B	142	Ft
Dr Structure Cover, Adj, Case 1	1	Ea
Dr Structure Cover, Type B	1	Ea
Dr Structure Cover, Type K	1	Ea
Dr Structure, 48 inch dia	1	Ea
Dr Structure, Tap, 12 inch	1	Ea
HMA Approach	451	Ton
Conc, Grade S2	1	Cyd
Reinforcement, Steel, Culv and Headwall	40	Lb
Curb and Gutter, Conc, Det B2	203	Ft
Downspout Header, Conc	1	Ea
Guardrail, Anch, Bridge, Det T3	1	Ea
Post, Mailbox	1	Ea
Guardrail, Type T, Modified	262	Ft
Guardrail Approach Terminal, Modified	1	Ea
Guardrail, Curved, Type T, Modified	60	Ft
Riprap, Heavy	3	Syd
Monument Box	1	Ea



Know what's **below.**

ВΙΔΙ	N SUBMITTALS AND CHANGES	Σ
1 1 1	BIDDING DOCUMENTS	RFV:
DATE	DESCRIPTION	KLV.
8/8/17	ISSUED FOR BIDS	
		sнт# 18 оғ 28
-		JOB No: 16M0094

PLAN DATE: _ ROWE PROFESSIONAL SERVICES COMPANY

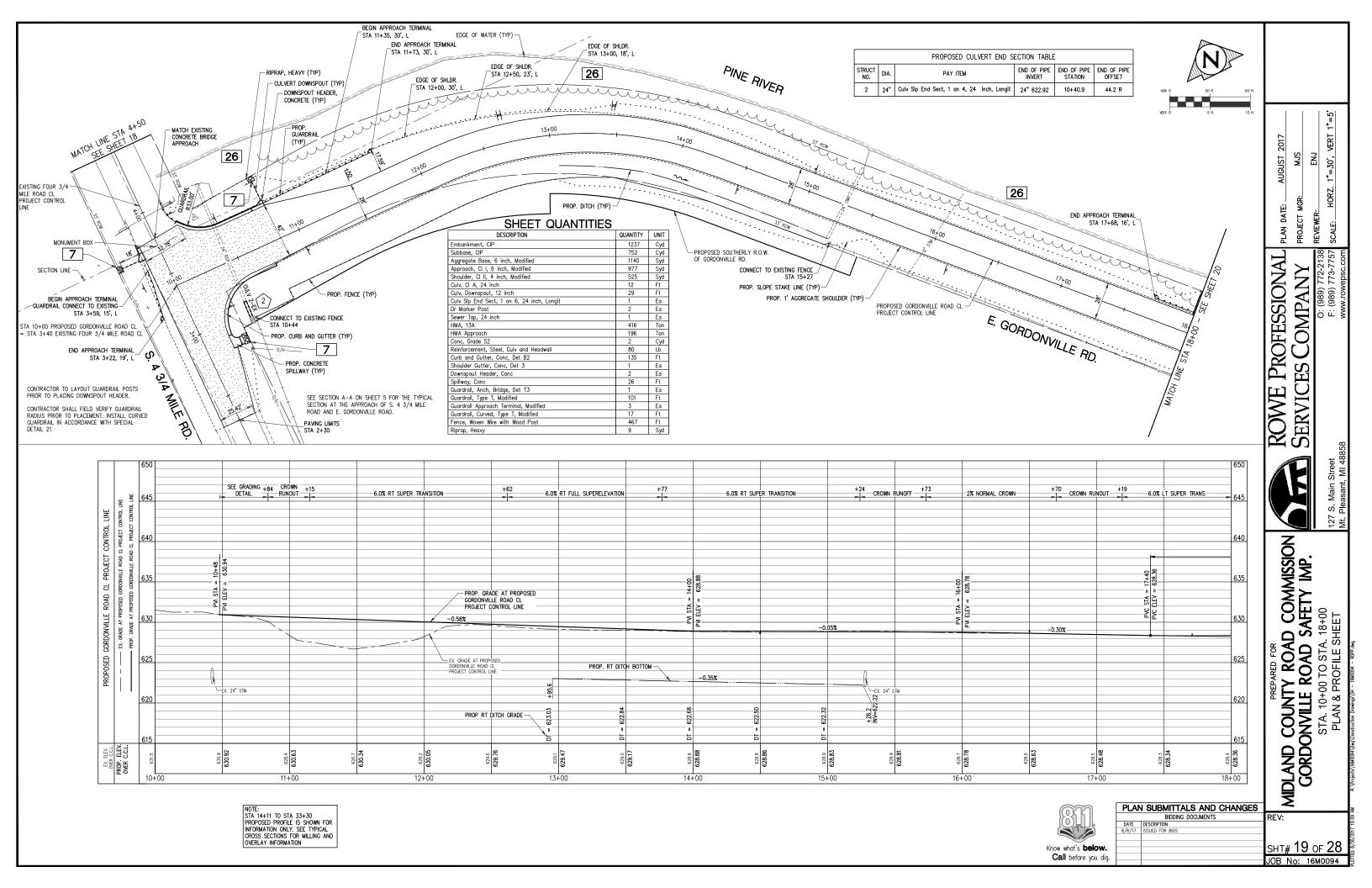
1" = 30' S

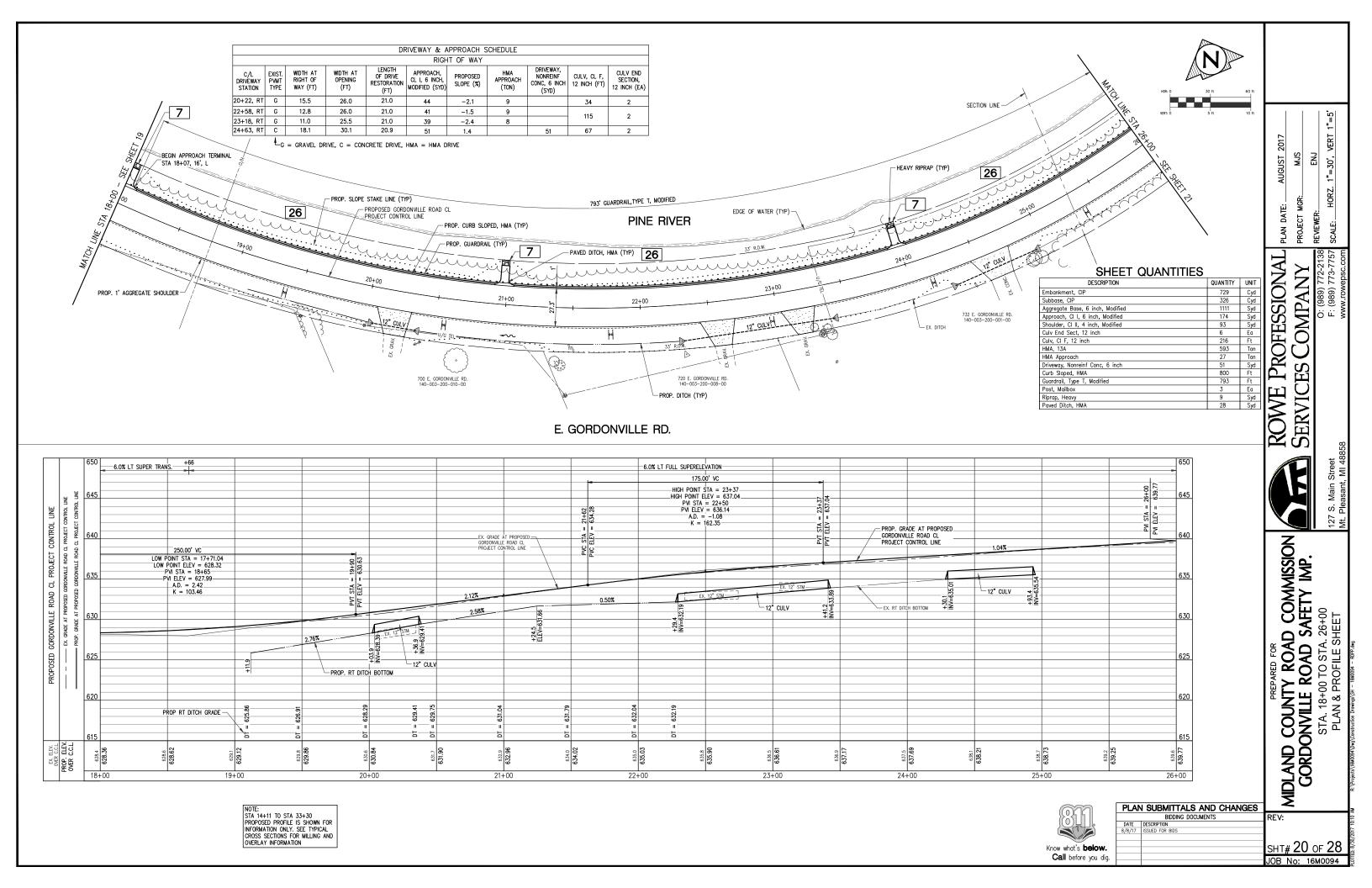
AUGUST 2017

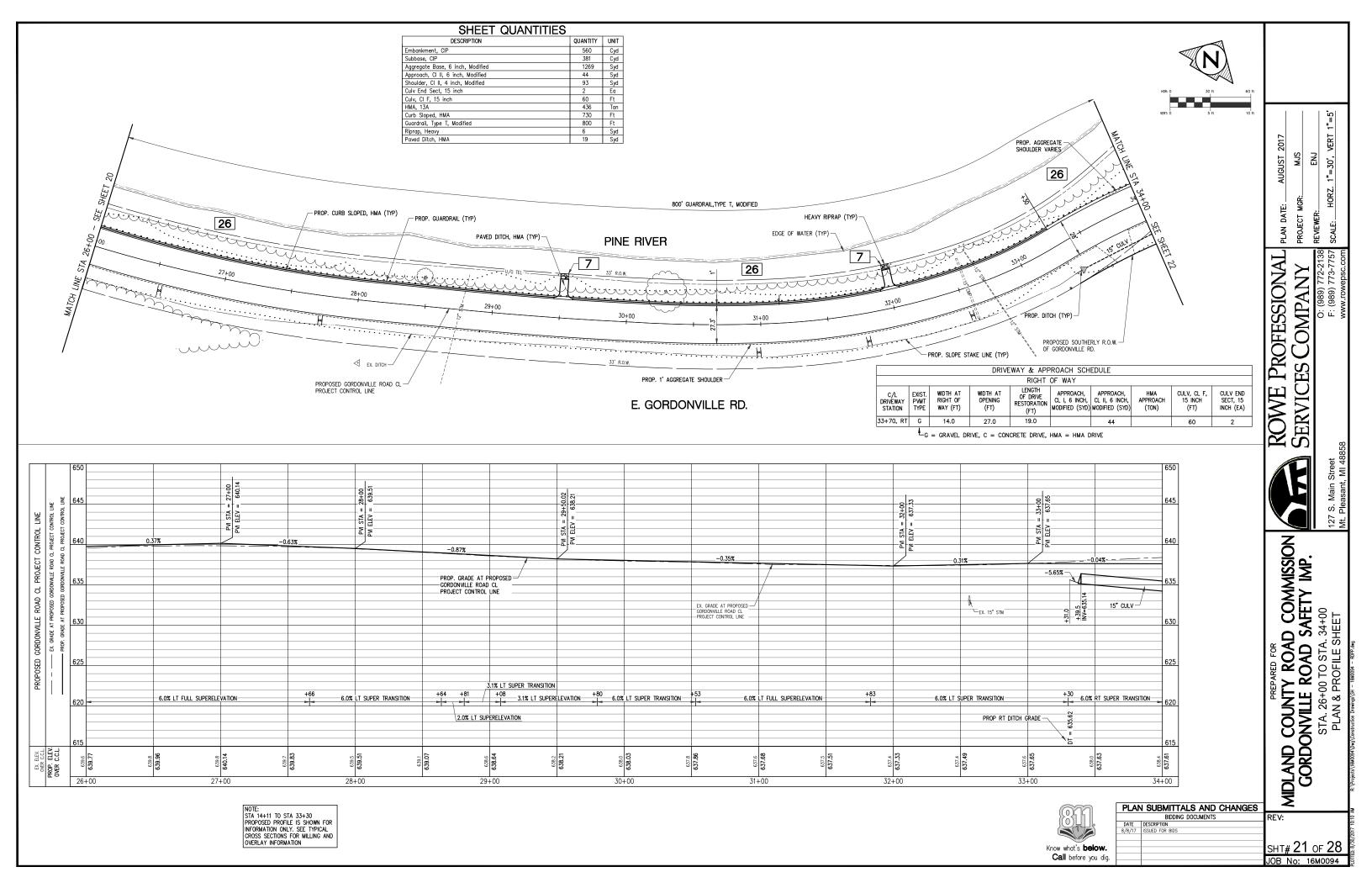
'S. Main Street Pleasant, MI 4

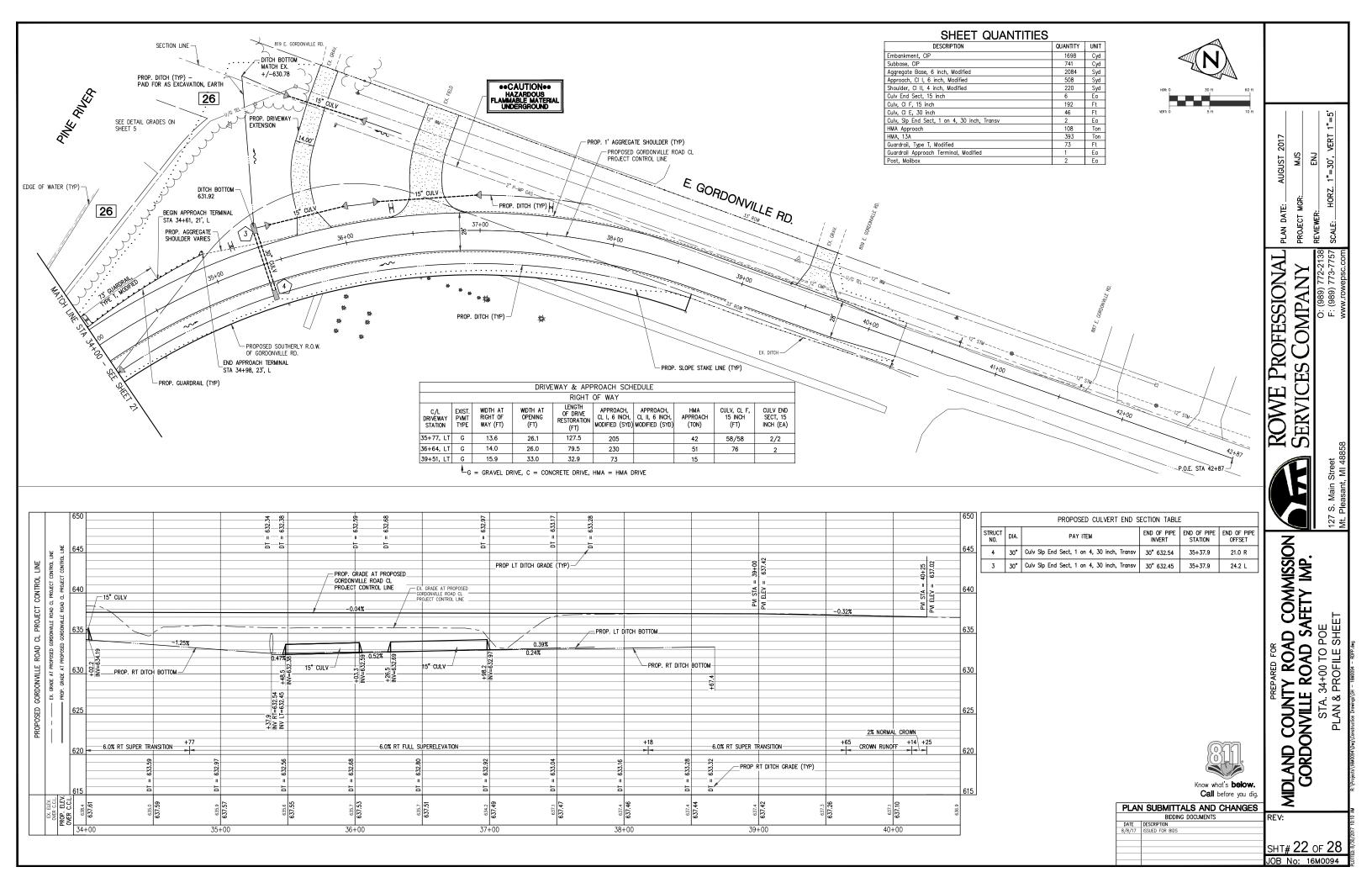
MIDLAND COUNTY ROAD COMMISSION CORDONVILLE ROAD SAFETY IMP.

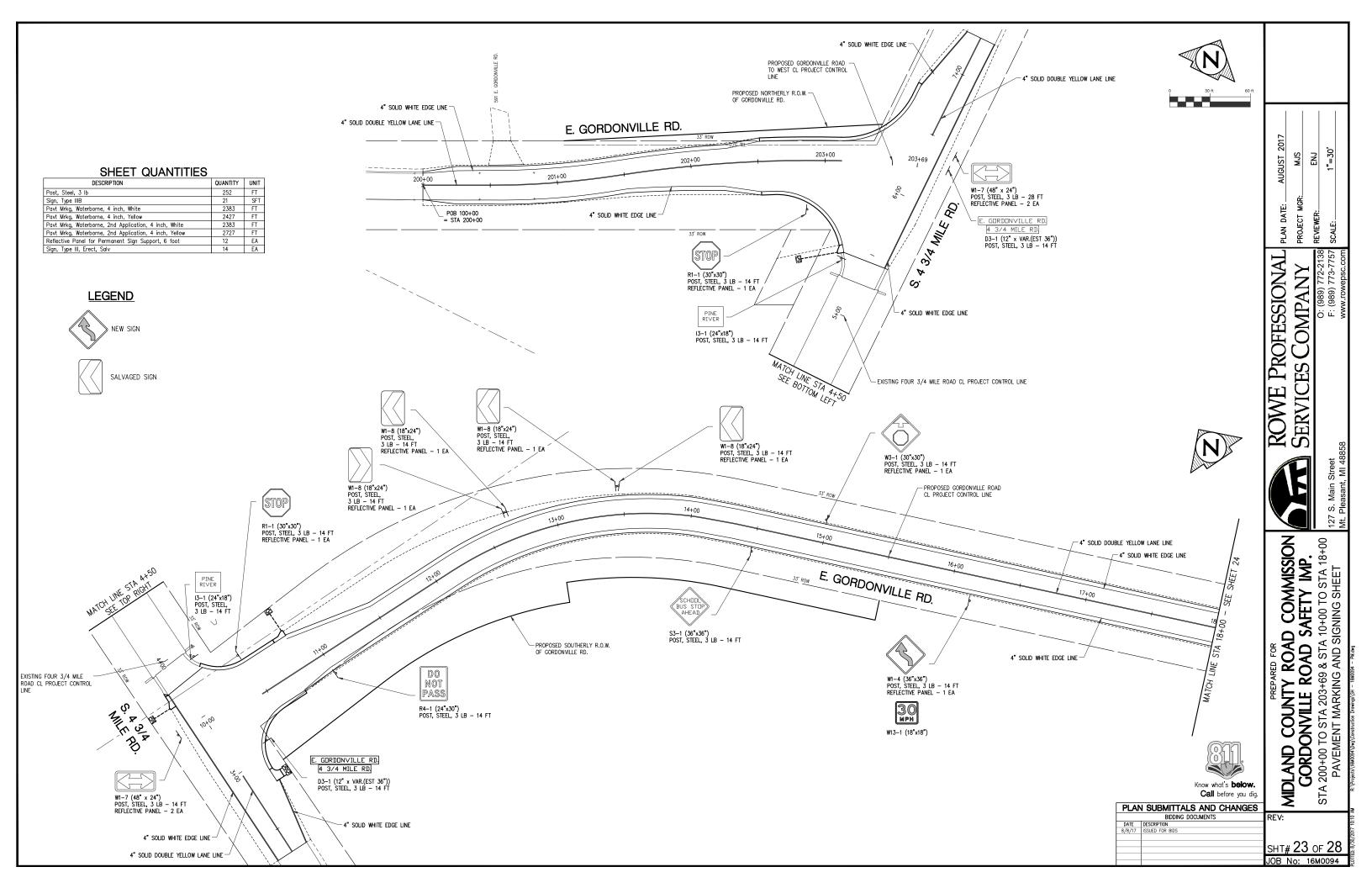
STA. 200+00 TO STA 203+69
PLAN & PROFILE SHEET

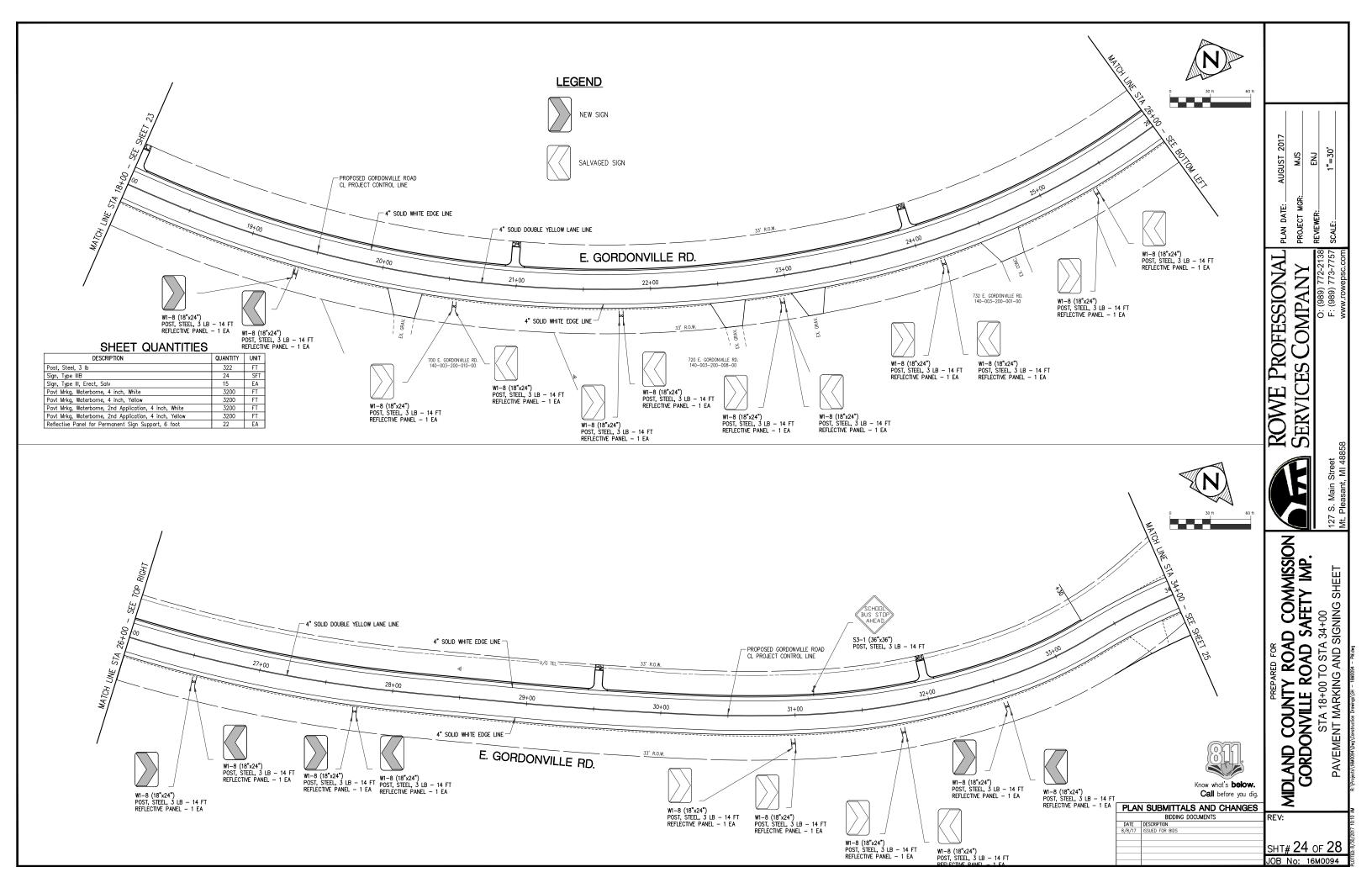


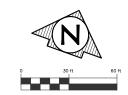












AUGUST 2017 MJS

PLAN DATE:

1"=30' EN

7 S. Main Street Pleasant, MI 48

STA 34+00 TO POE
PAVEMENT MARKING AND SIGNING SHEET
operet/1800094/Day/Construction Drowings/St - 1800094 - Pil/doo

SHEET QUANTITIES

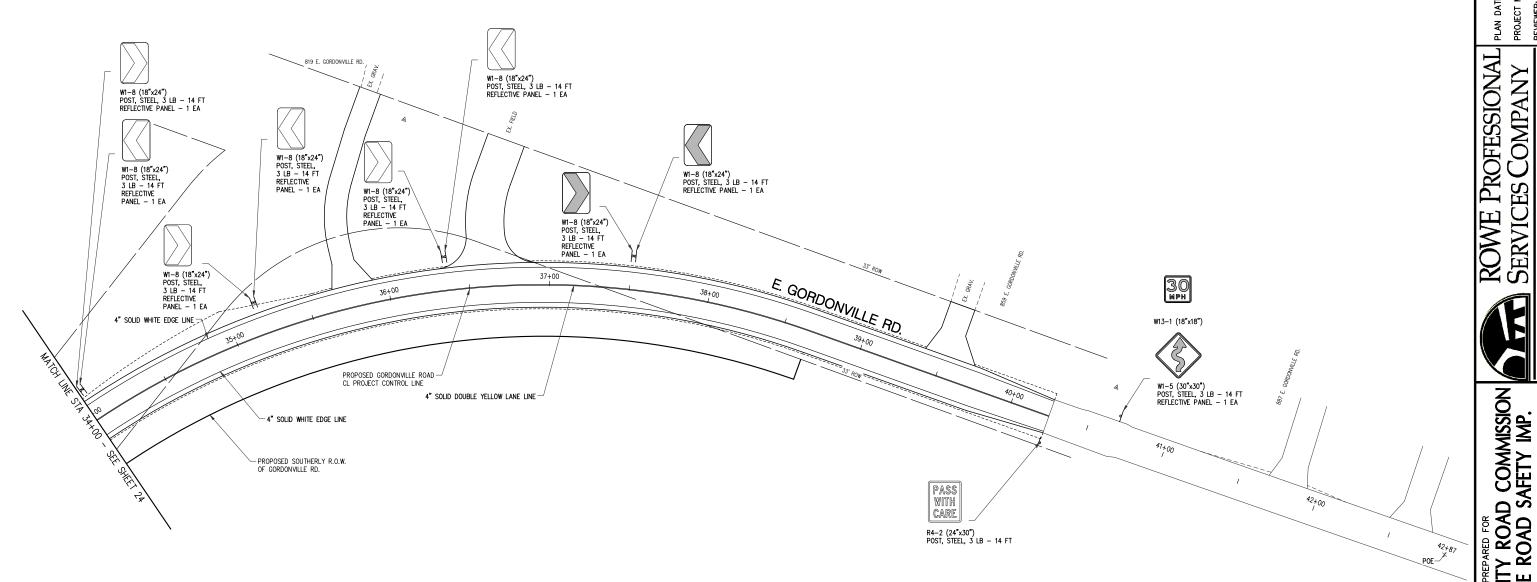
DESCRIPTION	QUANTITY	UNI
Post, Steel, 3 lb	140	FT
Sign, Type IIIB	15	SF
Sign, Type III, Erect, Salv	7	EA
Pavt Mrkg, Waterborne, 4 inch, White	1252	FT
Pavt Mrkg, Waterborne, 4 inch, Yellow	1252	FT
Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White	1252	FT
Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	1252	FT
Reflective Panel for Permanent Sign Support, 6 foot	9	FΑ

LEGEND





SALVAGED SIGN



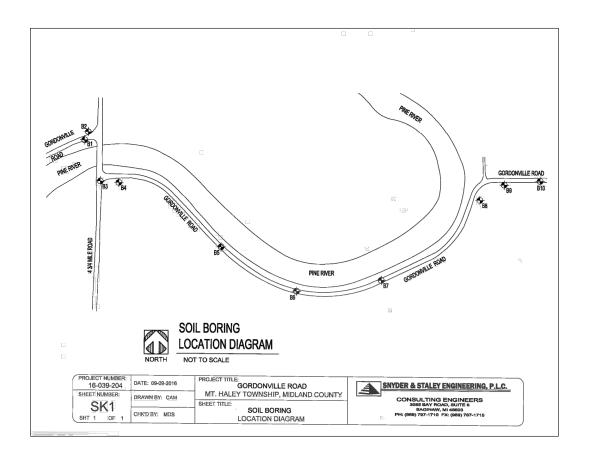


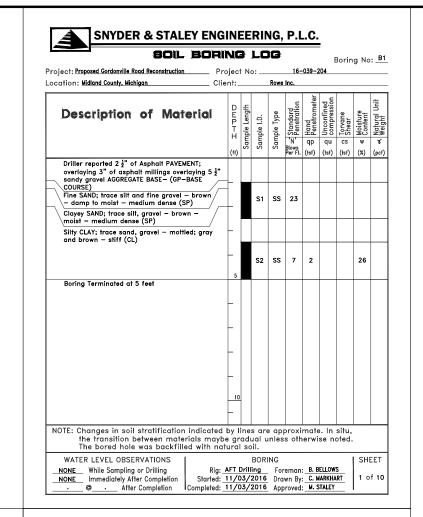
Know what's below. Call before you dig.

PLAN SUBMITTALS AND CHANGES
BIDDING DOCUMENTS

DATE DESCRIPTION
B/8/17 ISSUED FOR BIDS

MIDLAND COUNTY ROAD COMMISSION GORDONVILLE ROAD SAFETY IMP. SHT# 25 OF 28 JOB No: 16M0094

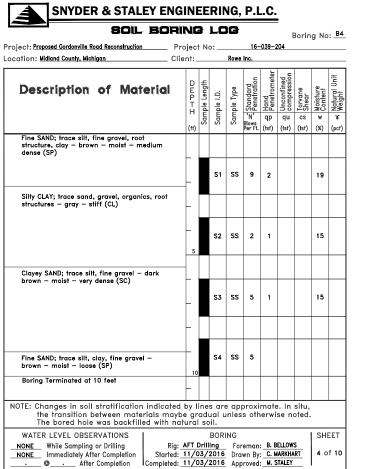




Projection:	Sample Length		Sample Type	Z Standard Penetration	Hand Penetrometer	Unconfined compression	Torvane Shear	Moisture Content	al Unit
D E P T H	Sample Length			≥ Standard Penetration	Hand Penetrometer	nconfined ompression	vane	ture ent	al Unit
	Sample Length	Sample I.D.	Sample Type	'N'	Hand Penetromete	nconfined ompressior	vane	ture	al Unit
(#)		, 0,	",		qр	qu	She Z	* Mois Conf	Natural
+				Blows Per Ft.	(tsf)	(tsf)	(tsf)	(%)	(pcf
	ı	S1	ss	4	11/2			26	
F									
F		S2	ss	20	41/2			21	
5	-								
L									
		S3	ss	100+	21/2			17	
F									
+		S4	ss	96	4½			11	
1	D								
F									
ybe g	rac	dual ı							
	d by	/be gra	5 S3 S4 10 d by lines ard	S3 SS S4 SS d by lines are applybe gradual unles	S3 SS 100+ S4 SS 96 10 d by lines are approxi ybe gradual unless off	S3 SS 100+ 2½ S4 SS 96 4½ d by lines are approximate the gradual unless otherwise	S3 SS 100+ 2½ S4 SS 96 4½ 10 d by lines are approximate. In the gradual unless otherwise nut	\$3 \$\$ 100+ 2½ \$4 \$\$ 96 4½ d by lines are approximate. In situ,	S3 SS 100+ 2½ 17 S4 SS 96 4½ 11

Description of Material Description of Material Driller reported 4" of Asphalt PAVEMENT; overlaying 6" of crushed limestone AGGREGATE BASE - (GP-BASE COURSE) Fine SAND; trace silt and fine gravel - brown - damp - medium dense (SP) Clayey TOPSOIL; trace silt, gravel, root structure - dark brown - stiff (Sc-ToPSOIL)		denot olempia		Sample Type				Shear Shear	% ≤ Moisture Content	(a) Natural Unit
Description of Material Driller reported 4" of Asphalt PAVEMENT; overlaying 6" of crushed limestone AGGREGATE BASE—(GP-BASE COURSE) Fine SAND; trace slit and fine gravel – brown – damp – medium dense (SP) Clayey TOPSOIL; trace slit, gravel, root structure	D E P T H	denote longth	Sample Lengin	Sample Type	Z Standard Penetration	qр	qu	cs	w	A Weight
Driller reported 4" of Asphalt PAVEMENT; overlaying 6" of crushed limestone AGGREGATE BASE (GP-BASE COURSE) Fine SAND; trace silt and fine gravel – brown – damp – medium dense (SP) Clayey TOPSOIL; trace silt, gravel, root structure		Sample Compt			l N	qр	qu	cs	w	A Weight
overlaying 6" of crushed limestone AGGREGATE BASE - (GP-BASE COURSE) Fine SAND; trace silt and fine gravel - brown - damp - medium dense (SP) Clayey TOPSOIL; trace silt, gravel, root structure		Compo			l N	qр	qu	cs	w	У
overlaying 6" of crushed limestone AGGREGATE BASE - (GP-BASE COURSE) Fine SAND; trace silt and fine gravel - brown - damp - medium dense (SP) Clayey TOPSOIL; trace silt, gravel, root structure	(ff)				Per Ft.	(tsf)	(tsf)	(tsf)	(%)	(pcf
overlaying 6" of crushed limestone AGGREGATE BASE - (GP-BASE COURSE) Fine SAND; trace silt and fine gravel - brown - damp - medium dense (SP) Clayey TOPSOIL; trace silt, gravel, root structure			S1							-
— damp — medium dense (SP) Clayey TOPSOIL; trace silt, gravel, root structure			S1							
				SS	1.3	1			11	
- dark brown - sim (SC-101 SOL)						,				
Fine SAND; trace silt, fine gravel, clay, topsoil – brown – damp – medium dense (SP)	T									
	H	ı	S2	ss	5					
	5									
Boring Terminated at 5 feet		Τ								
	Г									
	Г									
	Γ									
	1	0								
	Γ									
OTE: Changes in soil stratification indicated the transition between materials may The bored hole was backfilled with no	oe q	ra	dual ı	e ap	proxi s oth	mate erwi	e. In se no	situ, oted.		
WATER LEVEL OBSERVATIONS			BOR	ING				- 1	SHE	EET
NONE While Sampling or Drilling Rig:			illing	For	eman	В. В	ELLOW:	<u>. </u>		
NONE Immediately After Completion Started: • • After Completion Completed:	11/	03	/2016	Dra	wn By	C. M	IARKHA	RT_	3 0	f 10

SOIL BO	RIN	3	LC	10				Borin	a No	: B4
roject: Proposed Gordonville Road Reconstruction	Projec	t N	o:		16-	-039-2		301111	9 110	
ocation: Midland County, Michigan										
Description of Material	D E P T H	Sample Length	Sample I.D.	Sample Type	Standard Penetration	Hand Penetrometer	Unconfined compression	Torvane Shear	Moisture Content	Natural Unit
	(#	Sam	Sarr	Sarr	'N' Blows Per Ft.	qp (tsf)	qu (tsf)	CS (tsf)	(%)	(pcf
Fine SAND; trace silt, fine gravel, root structure, clay — brown — moist — medium dense (SP)						,	. ,	, ,		
			S1	ss	9	2			19	
Silty CLAY; trace sand, gravel, organics, root structures — gray — stiff (CL)	_									
			S2	ss	2	1			15	
Clayey SAND; trace silt, fine gravel — dark										
brown — moist — very dense (SC)	-		S3	ss	5	1			15	
	-									
Fine SAND; trace silt, clay, fine gravel — brown — moist — loose (SP)	十.	0	S4	ss	5					
Boring Terminated at 10 feet										
NOTE: Changes in soil stratification indica the transition between materials m The bored hole was backfilled with	aybe g	rad	ual ı							
WATER LEVEL OBSERVATIONS NONE While Sampling or Drilling	Rig: AFT	Dril	BOR ling			; В. В	ELLOW			EET f 10





SOIL BORING LOG SHEET

AUGUST 2017

PLAN DATE:

ROWE PROFESSIONAL

SERVICES COMPANY

NO SCALE



Know what's **below.** Call before you dig.

PLAN	N SUBMITTALS AND CHANG	E
	BIDDING DOCUMENTS	
DATE	DESCRIPTION	
8/8/17	ISSUED FOR BIDS	

REV: SHT# 26 OF 28

JOB No: 16M0094

SOIL BORI	ME	₹.	LC	18			E	Borin	g No	: B5
ject: <u>Proposed Gordonville Road Reconstruction</u> Pr	ojec	No	o:		16-	039-2	204			
cation: <u>Midland County, Michigan</u> Clie	ent:_			Rowe	Inc.					
Description of Material	DEPTH	Sample Length	Sample I.D.	Sample Type	Standard Penetration	Hand Penetrometer	Unconfined compression	Torvane Shear	Moisture Content	Natural Unit Weight
	(ft)	Sar	Sar	Sar	'N' Blows Per Ft.	qp (tsf)	qu (tsf)	CS (tsf)	(%)	(pcf)
Driller reported 2 1/2" of Asphalt PAVEMENT; overlaying 9 1/2" of sandy gravel AGGREGATE BASE- (GP-BASE COURSE)	(1)				1 41 11.	(lai)	(lai)	(131)	(20)	(рег)
Silty CLAY; trace sand, fine gravel — brown — hard (CL)			S1	ss	19	4			12	
Fine SAND; trace silt, fine gravel, clay — brown — damp — medium dense (SP)										
Silly CLAY; trace sand, fine gravel - gray - very stiff (CL)	5		S2	ss	12	2			25	
Boring Terminated at 5 feet										
	F									
	-									
	F									
	10									
OTE: Changes in soil stratification indicated the transition between materials mayb The bored hole was backfilled with na	e gr	adı	ual u	e apı ınles	proxi s oth	mate ierwi	e. In se n	situ, oted.	<u> </u>	
WATER LEVEL OBSERVATIONS			BOR						SHI	EET
NONE While Sampling or Drilling Rig: NONE Immediately After Completion Started: After Completion Completed:	11/0	3/:	2016	Dra		: C. N	IARKHA		5 0	f 10

oject: Proposed Gordonville Road Reconstruction							039-2	204			
cation: <u>Midland County, Michigan</u>	Clier	nt:_			Rowe	Inc.					
Description of Materia	I	THUMD	Sample Length	Sample I.D.	Sample Type	Standard Penetration	Hand Penetrometer	Unconfined compression	Torvane Shear	Moisture Content	Natural Unit
		(ff)	Sam	Sam	Sam	'N' Blows Per Ft.	qp (tsf)	qu (tsf)	CS (tsf)	W (%)	(pc
Driller reported 11" sandy gravel AGGREGATE BASE— (GP—BASE COURSE)											
Fine SAND; trace silt, fine gravel, clay — brown — damp — medium dense (SP)		_		S1	SS	19	3			18	
Silty CLAY; trace sand, fine gravel — brown - very stiff to hard (CL)	-										
		-									
		-		S2	SS	12	4½+			11	
Boring Terminated at 5 feet		5									
• • • • • • • • • • • • • • • • • • • •											
		-									
		-									
		-									
		10									
		-									
NOTE: Changes in soil stratification indice the transition between materials m The bored hole was backfilled with	aybe	gr	adı	ual ı							
WATER LEVEL OBSERVATIONS				BOR						SHI	EE1
NONE Immediately After Completion Star	Rig: <u>A</u> ted: <u>1</u> ted: 1	1/0	3/:	2016	Dra	wn By:	: C. N	IARKHA		6 0	f 1

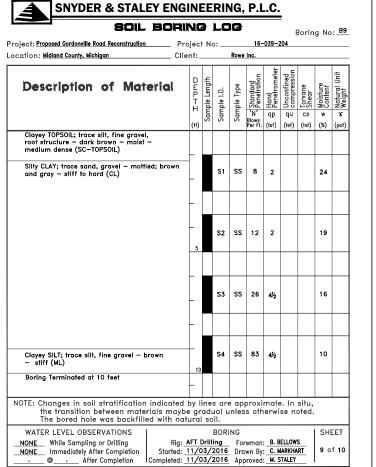
SNYDER & STALEY ENGINEERING, P.L.C.

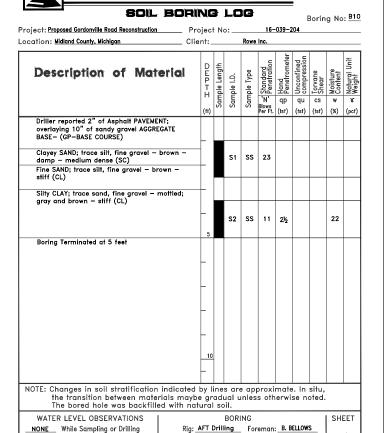
oject: Proposed Gordonville Road Reconstruction						-039-	204			_
Carlott, marana scarry, micrigan	CITETIL	· —	_	I I I			_			_ T
Description of Material	E F T		Sample Length	Sample Type	Standard Penetration	Hand Penetrometer	Unconfined compression	Torvane Shear	Moisture Content	
	(fi	1)	Sam	Sam	'N' Blows Per Ft.	qp	qu (tsf)	CS (tsf)	w (%)	Ī
Driller reported 2 1/2" of Asphalt PAVEMENT; overlaying 8 1/2" of sandy gravel AGGREGATE BASE— (GP—BASE COURSE)		T								Ī
Clayey SAND; trace silt, fine gravel — brown — damp — medium dense (SC)			S1	ss	26	2			11	
Silty CLAY; trace sand, fine gravel — mottled; gray and brown — stiff to hard (CL)				+						
	-									
	-		S2	SS	11	4			21	
		5								ļ
Boring Terminated at 5 feet										
	-									
	-									
	Γ									
	-									
	L	10								
	-									
NOTE: Changes in soil stratification indicat the transition between materials mo The bored hole was backfilled with	gybe g	gra	dual							_
WATER LEVEL OBSERVATIONS		۵, ,		RING				-	SHE	E'
			illing	_			ELLOW	_		

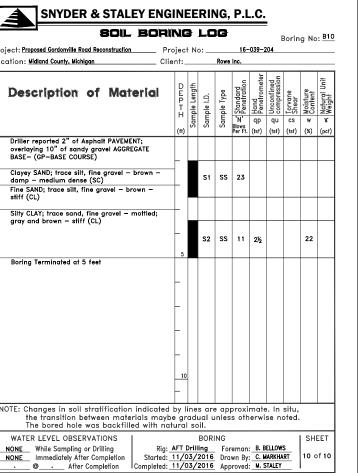
SNYDER & STALEY ENGINEERING, P.L.C.

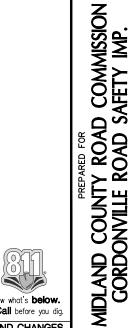
SNYDER & STALEY ENGINEERING, P.L.C. SOIL BORING LOG Boring No: B8 Project No: _ Project: Proposed Gordonville Road Reconstruction 16-039-204 _ Client:_ **Description of Material** Clayey SAND; trace silt, fine gravel, root structure — brown — moist — medium dense (SC) Sandy GRAVEL aggregate base (GP-BASE COURSE) S1 SS 14 Clayey SAND; trace silt, fine gravel — dark brown — moist — very dense (SC) Silty CLAY; trace sand, gravel — mottled; brown and gray — stiff to hard (CL) S4 SS 54 41/2 Boring Terminated at 10 feet NOTE: Changes in soil stratification indicated by lines are approximate. In situ, the transition between materials maybe gradual unless otherwise noted. The bored hole was backfilled with natural soil. WATER LEVEL OBSERVATIONS While Sampling or Drilling Immediately After Completion After Completion Time After Completion Town By: C. MARKHART Completed: 11/03/2016 Approved: M. STALEY NONE While Sampling or Drilling NONE Immediately After Completion

8 of 10









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PLAN	SUBMITTALS AND CHANGE
	BIDDING DOCUMENTS
DATE	DESCRIPTION
8/8/17	ISSUED FOR BIDS

SHT# 27 OF 28

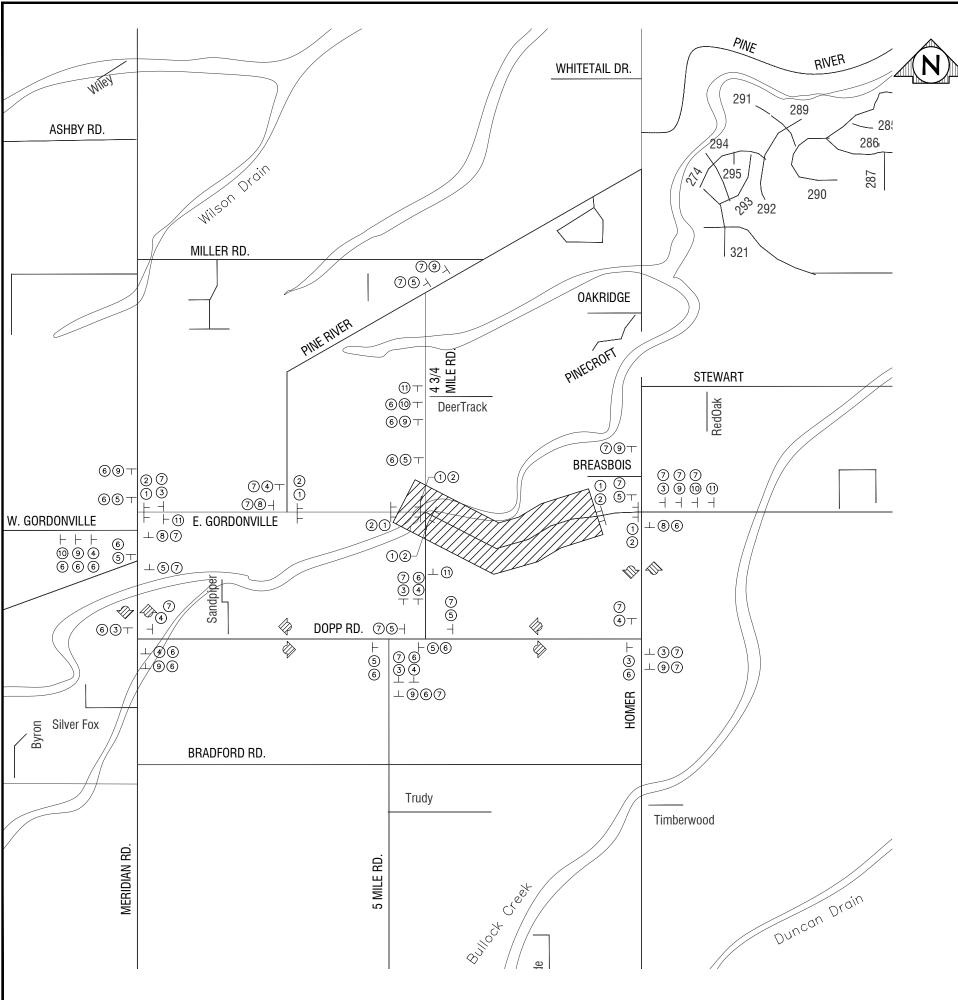
AUGUST 2017

PLAN DATE:

ROWE PROFESSIONAL

SERVICES COMPANY

SOIL BORING LOG SHEET



TRAFFIC CONTROL

- 1. TRAFFIC CONTROL DURING CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE 2011 MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 812; EXCEPT AS MODIFIED ON THE PLANS, IN THE SPECIAL PROVISIONS, OR BY THE ENGINEER.
- 2. EMERGENCY VEHICLE TRAFFIC SHALL BE MAINTAINED AT ALL TIMES DURING THE LIFE OF THE PROJECT.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING, PLACING, MAINTAINING, AND REMOVING ALL TRAFFIC CONTROL DEVICES.
- 4. THREE WORKING DAYS PRIOR TO DRIVING POSTS FOR SIGNS, THE CONTRACTOR SHALL CALL MISS DIG (1-800-482-7171) OR 811 FOR THE LOCATION OF UNDERGROUND UTILITIES.
- 5. WHERE EXCAVATION OR OTHER WORK RESULTS IN A GRADE DIFFERENCE OR OTHER HAZARD TO LOCAL TRAFFIC, PLASTIC DRUMS SHALL BE PROVIDED AT INTERVALS AND ON EACH SIDE OF DRIVEWAYS OR INTERSECTING ROADS, AS DIRECTED BY THE ENGINEER. THIS SHALL BE PAID FOR AS PLASTIC DRUM, HIGH INTENSITY, FURNISHED AND OPERATED.
- 6. ALL BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
- 7. PAYMENT FOR TEMPORARY SIGNS AND BARRICADES WILL BE BASED ON THE MAXIMUM QUANTITY, AT ANY TIME, OF EACH TYPE REQUIRED DURING THE LIFE OF THE PROJECT. IF BARRICADES OR SIGNS ARE REMOVED FROM ONE LOCATION AND RELOCATED FOR USE AT ANOTHER LOCATION, THEY WILL NOT BE CONSIDERED
- 8. WHEN TRAFFIC IS MAINTAINED ON A SOIL OR AGGREGATE SURFACE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERIODICALLY GRADE AND MAINTAIN THE SURFACE. DUST CONTROL MEASURES SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE INCLUDED IN OTHER MAINTAINING TRAFFIC PAY ITEMS.
- 9. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A DETAILED CONSTRUCTION SCHEDULE PRIOR TO BEGINNING WORK. THE SCHEDULE SHALL INDICATE THE PROPOSED METHOD OF MAINTAINING TRAFFIC DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL MAKE SUCH REVISIONS AS DIRECTED BY THE
- 10. THE CONTRACTOR SHALL NOTIFY POLICE, FIRE, HOSPITAL, AND EMERGENCY AGENCIES THREE DAYS IN ADVANCE OF, AND THE DAY OF, IMPLEMENTING A LANE CLOSURE FOR ANY SECTION OF ROAD. WRITTEN VERIFICATION OF THE CONTRACTOR'S CALL MUST BE PROVIDED BY THE CONTRACTOR TO THE MIDLAND COUNTY ROAD
- 11. IF ACCESS FROM DRIVEWAYS IS DENIED FOR ANY PERIOD OF TIME BECAUSE OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER AND NOTIFY THE AFFECTED RESIDENTS PRIOR TO THE CLOSING.
- 12. ALL TEMPORARY SIGNS SHALL HAVE GROUND DRIVEN SIGN SUPPORTS IN ACCORDANCE WITH MDOT SPECIAL DETAIL WZD-100-A.
- CONTRACTOR SHALL MAINTAIN TWO LANES OF TRAFFIC ON 4 3/4 MILE ROAD AT ALL TIMES EXCEPT FOR DURING INTERSECTION RECONSTRUCTION. AT LEAST ONE OF LANE OF TRAFFIC SHALL BE MAINTAINED ON 4 3/4 MILE ROAD DURING DAYLIGHT HOURS USING TRAFFIC REGULATOR CONTROL WHILE INTERSECTION RECONSTRUCTION IS BEING PERFORMED.
- 14. SEE SPECIAL PROVISIONS FOR MAINTAINING TRAFFIC AND MDOT TYPICAL DETAILS FOR ADDITIONAL INFORMATION.





SIGN LEGEND

(DOUBLE SIDED, HIGH INTENSITY, LIGHTED)









EB E. GORDONVILLE RD. 6
D3-1 SPECIAL

WB E. GORDONVILLE RD. 7 D3-1 SPECIAL (52" X 6")

END DETOUR









SIGN CONSTRUCTION ZONE



,	GORDONVILLE	RD.	DETOUR	ROUTE

			S	IGNS	
SYMBOL	ITEM	QUANTITY	SIGN AREA SFT	TOTAL AREA SFT	
2	R11-4	7	12.50	88	
3	M4-8 (L)	7	5	35	
4	M4-8 (R)	7	5	35	
5	M4-8 (T)	10	5	50	
6	D3-1 (SPECIAL)	19	1.25	24	
7	D3-1 (SPECIAL)	21	1.25	27	
8	M4-8A	3	3	9	
9	W20-2	9	16	144	
10	W20-3	3	16	48	
11	W20-1	4	16	64	
SIGN TYPE B,	524				

BARRICADE, TYPE III, HIGH INTENSITY, DOUBLE SIDED, LIGHTED, FURNISHED & OPERATED 7 EA.



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PLAN SUBMITTALS AND CHANGES BIDDING DOCUMENTS
DESCRIPTION

sнт# **28** оғ **28**

SCALE EN

9

(989) 772-2138 (989) 773-7757

AUGUST

PLAN I

ROWE PROFESSIONAL

MGR DATE: PROJECT !

COMPANY

SERVICES

D COMMISSION SAFETY IMP.

CORDONVILLE ROAD S

MAINTAINING TRAFFIC SHEET