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UTILITIES

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

<p>ELECTRIC CONSUMERS ENERGY CO. 2400 WEISS STREET SAGINAW, MI 48603 CONTACT: GREG SQUANDA TELEPHONE: 989-529-2720 EMAIL: GCSQUANDA@CMSENERGY.COM</p> <p>GAS DISTRIBUTION CONSUMERS ENERGY CO. 2400 WEISS STREET SAGINAW, MI 48602 CONTACT: KYLE SKRABUT TELEPHONE: 989-791-5885 EMAIL: KYLE.SKRABUT@CMSENERGY.COM</p> <p>FIBER SAGINAW INTERMEDIATE SCHOOL DISTRICT (M.CO.NET) 3860 FASHION SQUARE BOULEVARD SAGINAW, MI 48603 CONTACT: JAMES MALLORY TELEPHONE: 989-249-8752 EMAIL: JMALLORY@SISD.CC</p>	<p>COUNTY DRAIN MIDLAND COUNTY DRAIN COMMISSION 220 WEST ELLSWORTH STREET MIDLAND, MI 48640 CONTACT: JOSEPH SOVA TELEPHONE: 989-832-6770 EMAIL: JSOVA@CO.MIDLAND.MI.US</p> <p>GAS TRANSMISSION UTILITY TECHNOLOGIES INTERNATIONAL 100 PROGRESS PLACE MIDLAND, MI 48640 CONTACT: JOSH WEBB TELEPHONE: 989-633-7985 EMAIL: JWEBB@UTI-CORP.COM</p> <p>TELEPHONE AND FIBER AT&T 309 SOUTH WASHINGTON AVENUE SAGINAW, MI 48607 CONTACT: KATHY HENDERSON TELEPHONE: 248-425-1859 EMAIL: KH1892@ATT.COM</p> <p>DOW BRINE LINES ARCADIS OF MICHIGAN, LLC 28550 CABOT DR, SUITE 500 NOVI, MI 48377 CONTACT: ROBERT BEAUVAIS II TELEPHONE: 810-513-8889 EMAIL: ROBERT.BEAUVAIS@ARCADIS.COM</p>	<p>ROADS MIDLAND COUNTY ROAD COMMISSION 2334 NORTH MERIDIAN ROAD SANFORD, MI 48657 CONTACT: JONATHAN MYERS, P.E. TELEPHONE: 989-687-9060 EMAIL: JON@MIDLANDROADS.COM</p> <p>CITY OF MIDLAND 333 WEST ELLSWORTH STREET MIDLAND, MI 48640 CONTACT: ANDREW PARROTT TELEPHONE: 989-837-6951 EMAIL: APARROTT@MIDLAND-MI.ORG</p> <p>CABLE CHARTER COMMUNICATIONS 1480 SOUTH VALLEY CENTER DRIVE BAY CITY, MI 48706 CONTACT: MARK KELLY TELEPHONE: 989-233-9404 EMAIL: MARK.KELLY@CHARTER.COM</p> <p>GAS TRANSMISSION (INACTIVE) CORTEVA AGRISCIENCE 3100 JAMES SAVAGE ROAD 954 BUILDING, OFFICE 110 MIDLAND, MI 48642 CONTACT: JOHN KEYES TELEPHONE: 989-898-5331 EMAIL: JOHN.KEYES@CORTEVA.COM</p>
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MDOT STANDARD PLANS

(* SPECIAL DETAILS WILL BE INCLUDED IN PROPOSAL)

PLAN NO.	TITLE
R-1-G	DRAINAGE STRUCTURES
R-7-F	COVER B
R-9-D	COVER D
R-12-E	COVER G
R-15-G *	COVER K
R-28-J *	CURB RAMP AND DETECTABLE WARNING DETAILS
R-29-I	DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK
R-30-G	CONCRETE CURB AND CONCRETE CURB & GUTTER
R-32-F *	APPROACH CURB & GUTTER, DOWNSPOUTS (FOR BRIDGE APPROACH CURB AND GUTTER)
R-59-E	GUARDRAIL AT BRIDGES AND EMBANKMENTS
R-60-J *	GUARDRAIL TYPES A, B, BD, T, TD, MGS-8, & MGS-8D
R-62-H *	GUARDRAIL APPROACH TERMINAL TYPE 2M
R-66-E *	GUARDRAIL DEPARTING TERMINAL TYPES B, T & MGS
R-80-E	GRANULAR BLANKET, UNDERDRAINS, OUTLET ENDINGS FOR UNDERDRAINS, AND SEWER BULKHEADS
R-82-D	BEDDING AND FILLING AROUND PIPE CULVERTS
R-83-C	UTILITY TRENCHES
R-85-D	OUTLET HEADWALLS
R-88-D	STEEL END SECTION
R-95-G	CULVERT SLOPED END SECTIONS
R-96-E	SOIL EROSION & SEDIMENTATION CONTROL MEASURES
R-100-H	SEEDING AND TREE PLANTING
R-105-D	GRADING CROSS-SECTIONS
R-110-A	PAVEMENT SAFETY EDGE
R-127-G	DELINEATOR INSTALLATIONS
21 *	GUARDRAIL AT INTERSECTIONS

MDOT TRAFFIC AND SAFETY STANDARD PLANS

PLAN NO.	TITLE
PAVE-900-G	PAVEMENT ARROW AND MESSAGE DETAILS
PAVE-905-E	LONGITUDINAL LINE TYPES AND PLACEMENT
PAVE-930-D	PAVEMENT MARKINGS FOR NON-SIGNALIZED INTERSECTIONS
PAVE-935-E	LEFT TURN LANE MARKINGS
PAVE-940-D	RIGHT TURN LANE AND ISLAND PAVEMENT MARKINGS
PAVE-945-D	INTERSECTION, STOP BAR AND CROSSWALK MARKINGS
SIGN-100-G	STANDARD SIGN INSTALLATIONS
SIGN-120-E	ROADSIDE SIGN LOCATIONS AND SUPPORT SPACING
SIGN-140-A	PLACEMENT OF D3-1 SIGNS ABOVE R1-1
SIGN-150-D	SIGN SUPPORT SELECTION CHARTS
SIGN-200-E	STEEL POSTS
WZD-100-A *	GROUND DRIVEN SIGN AND SUPPORTS FOR TEMP SIGNS
WZD-125-E *	TEMPORARY TRAFFIC CONTROL DEVICES

MIDLAND COUNTY ROAD COMMISSION

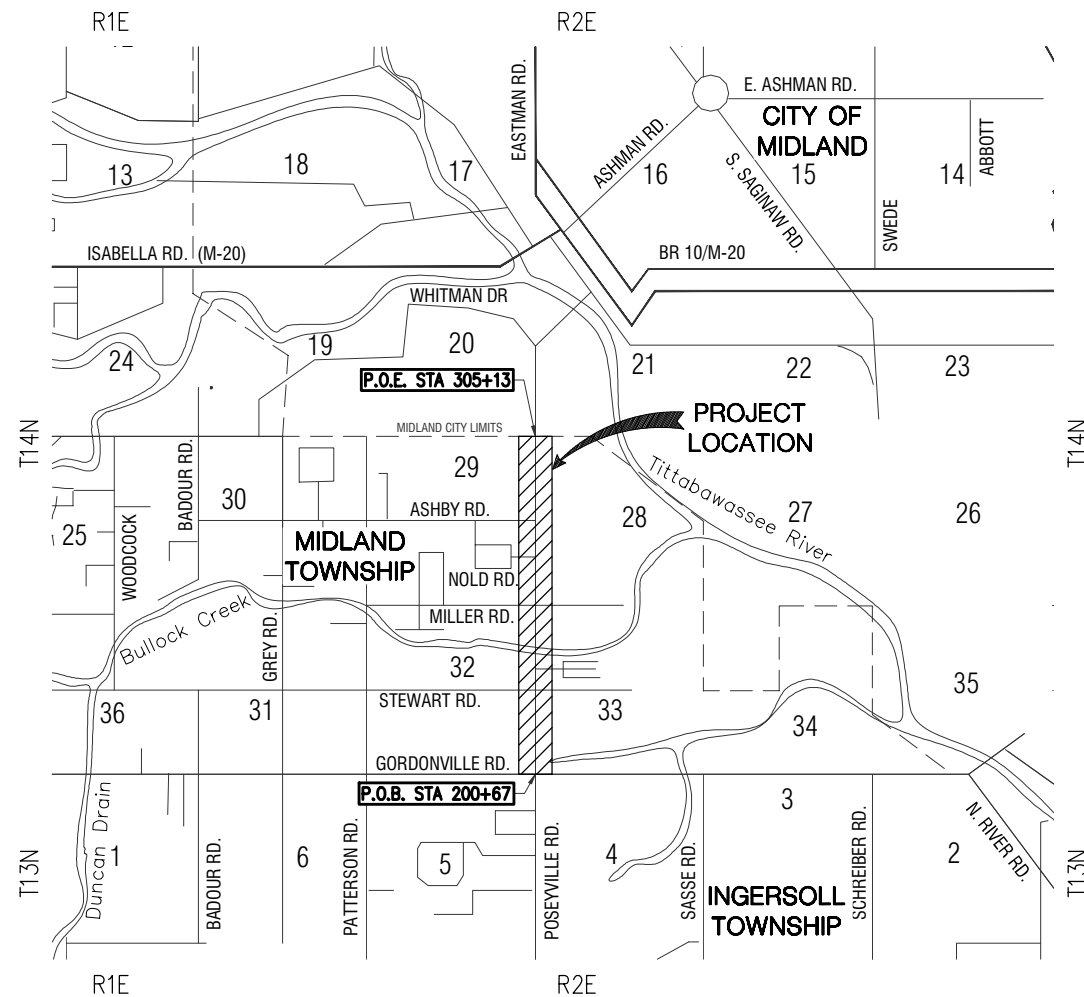
IN CO-OPERATION WITH
MICHIGAN DEPARTMENT OF TRANSPORTATION
 &
FEDERAL HIGHWAY ADMINISTRATION

**PLAN AND PROFILE OF PROPOSED
 2021 POSEYVILLE ROAD REHABILITATION**

T14N - R2E, SECTIONS 28, 29, 32, 33
 MIDLAND TOWNSHIP, MIDLAND COUNTY

CONTROL SECTION
 56000

JOB NO.
 129774



COUNTY	ROAD	PROJ.	YEAR	SHEET	TOTAL
MIDLAND	POSEYVILLE	129774	2021	1	72

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, AND SECTION C (3R) OF THE MDOT LOCAL AGENCY PROGRAMS GUIDELINES FOR GEOMETRICS, 2017 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, 7TH EDITION, 2018 AS AMENDED.

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 129774 P.O.B. = STA 200+67 P.O.E. = STA 305+13
 JN 129774 = 1.98 MILES

TRAFFIC DATA

POSEYVILLE ROAD

PRESENT ADT (2021) =	7,687 VEHICLES/DAY
FUTURE ADT (2041) =	8,493 VEHICLES/DAY
% COMMERCIAL =	3.5%

P.O.B. TO P.O.E.	
DESIGN SPEED =	50 MPH
POSTED SPEED =	45 MPH

CONTRACT FOR:
 1.98 MILES OF COLD MILLING HMA SURFACE AND HMA RESURFACING FROM GORDONVILLE ROAD TO THE MIDLAND CITY LIMITS, INCLUDING WIDENING AND PAVING THE EXISTING SHOULDER FROM GORDONVILLE ROAD TO NOLD ROAD, DRAINAGE IMPROVEMENTS, PAVEMENT MARKINGS AND PERMANENT SIGNING.

PREPARED UNDER SUPERVISION OF
MATTHEW J. SEITZ 6201057041
 REGISTERED PROFESSIONAL ENGINEER REGISTRATION NO.

ROWE PROFESSIONAL SERVICES COMPANY
 ORGANIZATION

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



127 S. Main Street
 Mt. Pleasant, MI 48858

O: (989) 772-2138
F: (989) 773-7757
www.roweps.com



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 GATE VALVE AND BOX (STOP BOX)
- EXISTING WATER SHUTOFF (SERVICE VALVE)
- 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
- 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
- ⊕ RAILROAD SIGNAL
- * METAL LIGHT POLE
- OUTLET
- CIRCUIT BREAKER PANEL
- ⊠ ELECTRICAL TRANSFORMER PAD
- ⊠ 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 1812 EXISTING STORM SEWER STRUCTURE NUMBER
- EX 3236 EXISTING SANITARY SEWER STRUCTURE NUMBER
- 1 PROPOSED STORM SEWER STRUCTURE NUMBER
- A PROPOSED SANITARY SEWER STRUCTURE NUMBER
- ~ FLOW DIRECTION
- EXISTING RIP-RAP
- PROPOSED RIP-RAP

CAUTION SYMBOLS

- CAUTION●● HAZARDOUS FLAMMABLE MATERIAL UNDERGROUND USED WITH UNDERGROUND GAS & ELECTRICAL LINES
- CAUTION●● FIBER OPTIC USED WITH FIBER OPTICS LINES

PLAN VIEW LINE TYPES

- 12" STM --- EXISTING STORM SEWER
- 12" CONC --- EXISTING CULVERT
- PROPOSED STORM SEWER LESS THAN 24"
- PROPOSED STORM SEWER 24" AND GREATER
- 12" SAN --- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- 12" WM --- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- SECTION LINE
- 60' ROW --- EXISTING RIGHT OF WAY
- 60' ROW --- PROPOSED RIGHT OF WAY
- PROPOSED EASEMENT
- EXISTING CENTER LINE DITCH
- PROPOSED DITCH CENTERLINE
- EXISTING CENTER LINE ROADWAY
- PARCEL LINE / LOT LINE
- O/H --- EXISTING OVERHEAD UTILITIES
- U/G ELEC --- UNDERGROUND ELECTRICAL LINE
- 6" S-MP GAS --- GAS LINE OR PETROLEUM PIPELINE
- U/G TEL --- UNDERGROUND TELEPHONE LINE
- U/G CATV --- UNDERGROUND CABLE TV LINE
- U/G FIBER OPTIC --- UNDERGROUND FIBER OPTIC
- 11+00 PROJECT CONTROL LINE
- ~ TREE LINE
- ~ BRUSH LINE
- x-x-x-x-x-x-x-x-x-x- EXISTING FENCE
- x-x-x-x-x-x-x-x-x-x- PROPOSED FENCE
- EXISTING GUARD RAIL
- PROPOSED SLOPE STAKE LINE
- PROPOSED SILT FENCE

TOPOGRAPHY

- ~ 960 ~ EXISTING CONTOURS MAJOR
- ~ 958 ~ EXISTING CONTOURS MINOR
- ~ 960 ~ PROPOSED CONTOUR MAJOR
- ~ 958 ~ PROPOSED CONTOURS MINOR

PARCEL INFORMATION

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

PAVEMENT IDENTIFICATION

- ==== EXISTING CURB AND GUTTER
- ==== PROPOSED CURB AND GUTTER

HATCHING LEGEND

- [Hatch] REMOVE HMA
- [Hatch] REMOVE PAVEMENT
- [Hatch] REMOVE SIDEWALK
- [Hatch] COLD MILLING EXISTING PAVEMENT
- x-x-x-x-x-x- REMOVE CURB AND GUTTER
- [Hatch] PROPOSED CONCRETE SIDEWALK OR DRIVEWAY
- [Hatch] PROPOSED HMA APPROACH & DRIVEWAY

PROPOSED CALLOUTS

- | TOPO CALLOUTS | PLAN VIEW | |
|---------------|-----------|-------------------------------|
| ADJ | (ADJ) | ADJUST STRUCTURE |
| ADJ-X | (ADJ-X) | ADJUST STRUCTURE W/ NEW COVER |
| ADJ-B/O | (ADJ-B/O) | ADJUST STRUCTURE BY OTHERS |
| REC | (REC) | RECONSTRUCT STRUCTURE |
| REL | (REL) | RELOCATE |
| REL-B/O | (REL-B/O) | RELOCATE BY OTHERS |
| REM | (R) | REMOVE |
| R&R | (R&R) | REMOVE AND REPLACE |
| SALV | (SALV) | SALVAGE |
| SAVE | (S) | SAVE |
| ABN | (A) | ABANDON |
| CLR | (C) | CLEARING |
| | (B) | BULKHEAD |
| | (SR-F) | SIDEWALK RAMP TYPE |
| | 6 | SOIL EROSION CONTROL MEASURE |

PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS



PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: NO SCALE

ROWE PROFESSIONAL SERVICES COMPANY
O: (989) 772-2138
F: (989) 773-7757
www.rowepsc.com

127 S. Main Street
Mt. Pleasant, MI 48858

PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION

LEGEND SHEET
SHT# 2 OF 72
JOB No: 20M0019

PLotted: 3/21/2021 8:28 AM R:\Projects\20M0019\Orig\Construction Drawings\SP-20M0019-EG.dwg

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, 811, WWW.MISSDIG.ORG) 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.

PUBLIC UTILITIES

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 REMAIN IN SERVICE DURING THE PROJECT.

MAILBOXES

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 WITH A COPY OF THE NOTIFICATION.

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 THE OWNER'S PROPERTY.

SOIL BORINGS / PAVEMENT CORES

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 RESIDENTS AND BUSINESSES IN ADVANCE.

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

MIDLAND COUNTY CENTRAL DISPATCH
TELEPHONE: 989-839-6464

MIDLAND COUNTY SHERIFF
TELEPHONE: 989-839-4600

MIDLAND PUBLIC SCHOOLS
TELEPHONE: 989-923-5041

BULLOCK CREEK SCHOOLS
TELEPHONE: 989-631-9022

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 THE PLANS.

THE HORIZONTAL ALIGNMENT SHOWN ON THE DRAWINGS FOR DRAINAGE STRUCTURES LOCATED IN THE CURB LINE IS TO THE CENTER OF THE CASTING.

THE HORIZONTAL ALIGNMENT SHOWN ON THE DRAWINGS FOR DRAINAGE STRUCTURES WHICH ARE NOT IN THE CURB LINE AND FOR MANHOLES IS TO THE CENTER OF THE STRUCTURE.

WHERE RIM ELEVATIONS ARE PROVIDED ON THE PLANS FOR MANHOLE CASTINGS, THE ELEVATION PROVIDED IS FOR THE TOP OF THE CASTING.

WHERE RIM ELEVATIONS ARE PROVIDED FOR INLET TYPE CASTINGS, THE ELEVATIONS ARE PROVIDED AS FOLLOWS:

- CURB INLETS -- THE ELEVATION OF THE TOP OF CURB
- ALL OTHER INLETS -- THE ELEVATION OF THE FLOW LINE

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

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

WHEN 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, BENCHMARKS, OR 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 AFTER SUNSET SHALL BE LIGHTED.

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 FROM VEHICLES.

THE CONTRACTOR SHALL PROVIDE SIGNING, BARRICADES, TRAFFIC REGULATORS, CONES, AND OTHER TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCY HAVING JURISDICTION OVER STREETS OR ROADS IN THE PROJECT AREA, 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 APPROPRIATE.

TURF ESTABLISHMENT

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

TURF 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.

ADA COMPLIANCE

ALL PROPOSED CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE 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 IS RESPONSIBLE TO REMOVE AND REPLACE WORK DETERMINED TO BE NOT IN ACCORDANCE WITH APPLICABLE REQUIREMENTS, GUIDELINES, OR STANDARDS.

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 UNDER 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 TO AT LEAST 95% OF ITS MAXIMUM UNIT WEIGHT.

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

DENSITY TESTING

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.

WORK HOURS

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 OWNER.

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 COPY OF THE NOTIFICATION.

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 Sewer, Cl A, 12 inch, Tr Det B, Dr Structure Cover, Type G, and Dr Structure, 24 inch dia HAS BEEN INCLUDED TO BE INSTALLED TO PROVIDE POSITIVE DRAINAGE AT LOCATIONS 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 FILLS, 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 DRAINAGE OR AERATE THE SOIL.

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

CURB AND CUTTERS

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 SWEEPED TO REMOVE ALL DIRT AND DEBRIS.

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 PLANS OR DIRECTED BY THE ENGINEER.

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

STORM SEWER CONSTRUCTION NOTES

DRAINAGE STRUCTURES SHALL BE CONSTRUCTED FROM PRECAST CONCRETE MANHOLE SECTIONS, MEETING ASTM C478.

SUMPS IN DRAINAGE STRUCTURES AND PIPELINES SHALL BE FREE OF SEDIMENT AND DEBRIS AT THE TIME OF ACCEPTANCE BY THE OWNER.

Sewer, Cl A, ___ inch, Tr Det ___ SHALL BE PLASTIC PIPE MEETING ASTM F2881 OR AASHTO M330. SEWER SHALL BE MANDREL TESTED AND MDOT FORM 1975 SHALL BE COMPLETED.

CULVERT NOTES

PIPE MATERIAL SHALL BE PLASTIC PIPE MEETING ASTM F2881 OR AASHTO M330. CULVERTS SHALL BE MANDREL TESTED AND MDOT FORM 1975 SHALL BE COMPLETED.

MAINTAINING TRAFFIC

TRAFFIC SHALL BE MAINTAINED PER THE SPECIAL PROVISION FOR MAINTAINING TRAFFIC AND AS SHOWN ON THE SHEETS 68-70.

MISCELLANEOUS QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Mobilization, Max \$118,700	1	LSUM
Clearing	1	Acre
Exploratory Investigation, Vertical	100	Ft
Ditch Cleanout	6	Sta
Embankment, CIP	660	Cyd
Excavation, Earth	6320	Cyd
Non Haz Contaminated Material Handling and Disposal, LM	100	Cyd
Subgrade Undercutting, Type II	250	Cyd
Maintenance Gravel	647	Ton
Sewer, Cl A, 12 inch, Tr Det B	50	Ft
Sump Pump Lead and Drain Tile Connection	50	Ft
Dr Structure Cover, Type G	2	Ea
Dr Structure, 24 inch dia	2	Ea
Underdrain, Subbase, 6 inch	500	Ft
Turf Establishment, Performance	12482	Syd

NOTE: THE ABOVE ITEMS OF WORK SHALL BE DONE AS THEY APPLY THROUGHOUT THE PROJECT. THESE ITEMS ARE NOT DETAILED OR INCLUDED ON THE PLAN AND PROFILE SHEETS.

MAINTAINING TRAFFIC QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	17	Ea
Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	17	Ea
Pedestrian Type II Barricade, Temp	8	Ea
Channelizing Device, 42 inch, Fluorescent, Furn	380	Ea
Channelizing Device, 42 inch, Fluorescent, Oper	380	Ea
Lighted Arrow, Type C, Furn	2	Ea
Lighted Arrow, Type C, Oper	2	Ea
Minor Traf Devices	1	LSUM
Pavt Mrkg, Wet Reflective, Type R, Tape, 4 inch, White, Temp	180	Ft
Pavt Mrkg, Wet Reflective, Type R, Tape, 4 inch, Yellow, Temp	508	Ft
Plastic Drum, Fluorescent, Furn	50	Ea
Plastic Drum, Fluorescent, Oper	50	Ea
Sign Cover	85	Ea
Sign, Type B, Temp, Prismatic, Furn	905	Sft
Sign, Type B, Temp, Prismatic, Oper	905	Sft
Sign, Type B, Temp, Prismatic, Spec, Furn	264	Sft
Sign, Type B, Temp, Prismatic, Spec, Oper	264	Sft
Traf Regulator Control	1	LSUM
Pedestrian Path, Temp	69	Ft
Pedestrian Ramp, Temp	2	Ea

NOTE: THE ABOVE ITEMS OF WORK ARE ESTIMATED FOR THE ENTIRE PROJECT AS DETERMINED BY THE ENGINEER.



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PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV:

SHT# 3 OF 72

JOB No: 20M0019

PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION



NOTE AND MISCELLANEOUS QUANTITIES SHEET

127 S. Main Street
Mt. Pleasant, MI 48858

PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: NO SCALE

O: (989) 772-2138
F: (989) 773-7757
www.rowepscc.com

POSEYVILLE ROAD PROJECT CONTROL LINE - CONTROL TABLE

BENCHMARK DATA TABLE

NUMBER	NORTHING	EASTING	ELEVATION	STATION	OFFSET	DESCRIPTION
BM 32	753888	13154760	624.85	N/A	N/A	TOP NORTHEAST CORNER OF PAD FOR PHONE RISER SOUTHWEST QUAD OF POSEYVILLE AND GORDONVILLE ROADS
BM 311	754710	13154895	623.48	207+37.47	35.32' RT	SET RAILROAD SPIKE WEST SIDE POWER POLE EAST SIDE POSEYVILLE ROAD NORTH SIDE DRIVE #1441
BM 312	755779	13154897	629.40	218+05.78	33.11' RT	TOP EAST-SOUTHEAST FLANGE BOLT HYDRANT EAST SIDE POSEYVILLE ROAD NORTH OF #1337
BM 313	756582	13154901	628.46	226+09.33	33.68' RT	FOUND SPIKE SOUTHWEST SIDE POWER POLE AT SOUTHEAST QUAD POSEYVILLE ROAD AND STEWART ROAD
BM 314	757603	13154898	621.47	236+30.09	29.12' RT	FOUND SPIKE NORTHWEST SIDE POWER POLE AT SOUTHEAST QUAD POSEYVILLE AND FREDRICK
BM 315	758779	13154913	627.05	248+05.52	41.83' RT	TOP WEST SIDE CONE LIGHT POLE BASE AT SOUTH END SCHOOL PARKING LOT SET CHISELED SQUARE
BM 316	759903	13154902	626.95	259+29.90	26.48' RT	SET RAIL ROAD SPIKE WEST SIDE POWER POLE EAST SIDE POSEYVILLE ROAD SOUTH OF HOUSE #927
BM 317	761041	13154924	629.19	270+68.00	45.24' RT	TOP OF 5" DIAMETER 3' HIGH YELLOW DOW POST, EAST SIDE POSEYVILLE ROAD 165' NORTH OF CROSBY STREET
BM 318	761919	13154911	611.50	279+46.42	28.83' RT	FOUND BENCH TIE SPIKE NORTHEAST SIDE POWER POLE NE QUAD POSEYVILLE ROAD AND ASHBY
BM 319	762830	13154849	609.92	288+56.75	40.12' LT	TOP WEST-NORTHWEST FLANGE BOLT HYDRANT SOUTHWEST QUAD POSEYVILLE ROAD AND VENTURE
BM 320	764162	13154930	609.56	301+89.02	41.98' RT	TOP NORTHWEST CORNER CONCRETE SPILLWAY, 400' SOUTH OF CITY LIMITS

TRAVERSE POINT DATA TABLE

NUMBER	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
TP 12	753906.1090	13154765.5770	N/A	N/A	SET IRON ROD W/ROWE TRAV CAP 8.5' WEST OF SOUTH END BACK OF CURB SOUTHWEST QUAD OF POSEYVILLE AND GORDONVILLE ROADS
TP 301	754787.5610	13154888.2240	208+14.67	26.77' RT	SET IRON ROD W/ROWE TRAV CAP EAST SIDE POSEYVILLE ROAD 100' NORTH OF DRIVE #1441
TP 302	755787.9070	13154831.1620	218+14.55	32.98' LT	FOUND T IRON CPD WEST RIGHT-OF-WAY POSEYVILLE ROAD NORTHEAST CORNER #1330 PROPERTY
TP 303	756660.4690	13154895.0170	226+87.25	27.50' RT	SET IRON ROD W/ROWE TRAV CAP NORTHEAST QUAD POSEYVILLE ROAD AND STEWART ROAD
TP 304	757617.2710	13154846.6550	236+43.98	22.37' LT	SET IRON ROD W/ROWE TRAV CAP WEST SIDE POSEYVILLE ROAD AND STEWART ROAD
TP 305	758797.5030	13154897.8580	248+24.30	26.19' RT	SET IRON ROD W/ROWE TRAV CAP EAST SIDE POSEYVILLE ROAD IN FRONT OF SCHOOL
TP 306	759788.8850	13154849.7530	258+15.53	24.96' LT	SET IRON ROD W/ROWE TRAV CAP WEST SIDE POSEYVILLE ROAD SOUTHEAST CORNER #938 PROPERTY
TP 307	760895.0480	13154906.8660	269+22.01	29.12' RT	SET IRON ROD W/ROWE TRAV CAP 2.5' EAST OF BACK OF CURB POSEYVILLE ROAD, 15' NORTH OF CROSBY STREET
TP 308	761935.6110	13154852.2100	279+62.32	29.89' LT	SET IRON ROD W/ROWE TRAV CAP NORTHWEST QUAD POSEYVILLE ROAD AND ASHBY
TP 309	763000.4260	13154920.8460	290+27.46	30.03' RT	SET IRON ROD W/ROWE TRAV CAP EAST SIDE POSEYVILLE ROAD 150' NORTH OF VENTURE
TP 310	764244.2100	13154918.4560	302+71.30	29.35' RT	SET IRON ROD W/ROWE TRAV CAP 3.5' EAST OF BACK OF CURB POSEYVILLE ROAD, 300' SOUTH OF CITY LIMITS

ALIGNMENT POINT DATA TABLE

NUMBER	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
AP 100	753975.1486	13154810.9730	200+00.00	0.00' RT	POINT OF BEGINNING OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 101	754087.0112	13154821.8759	201+12.39	0.00' RT	POINT OF CURVATURE OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 102	754906.7967	13154862.4991	209+33.49	0.00' RT	POINT OF TANGENT OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 103	756326.8438	13154865.1490	223+53.54	0.00' RT	POINT OF CURVATURE OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 104	756352.2991	13154865.5205	223+79.00	0.00' RT	POINT OF TANGENT OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 105	756376.8813	13154866.1924	224+03.59	0.00' RT	POINT OF CURVATURE OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 106	756400.0529	13154866.5571	224+26.77	0.00' RT	POINT OF TANGENT OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 107	756599.3276	13154867.3840	226+26.05	0.00' RT	POINT OF CURVATURE OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 108	756624.8545	13154867.4574	226+51.57	0.00' RT	POINT OF TANGENT OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 109	757591.4380	13154869.0011	236+18.16	0.00' RT	POINT OF CURVATURE OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 110	757601.3580	13154869.0120	236+28.08	0.00' RT	POINT OF TANGENT OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 111	757883.1911	13154869.1825	239+09.91	0.00' RT	POINT OF CURVATURE OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 112	757904.5417	13154869.2182	239+31.26	0.00' RT	POINT OF TANGENT OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 113	758981.3153	13154872.1687	250+08.04	0.00' RT	POINT OF CURVATURE OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 114	758993.7877	13154872.1251	250+20.51	0.00' RT	POINT OF TANGENT OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 115	759030.1746	13154871.7710	250+56.90	0.00' RT	POINT OF CURVATURE OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 116	759043.3256	13154871.7295	250+70.05	0.00' RT	POINT OF TANGENT OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 117	759568.6344	13154873.5295	255+96.56	0.00' RT	POINT OF CURVATURE OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 118	759599.3954	13154873.6742	256+26.12	0.00' RT	POINT OF TANGENT OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 119	759763.2226	13154996.3357	257+90.36	0.00' RT	POINT OF CURVATURE OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 120	759748.3513	13154874.5779	257+75.08	0.00' RT	POINT OF TANGENT OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 121	760021.9057	13154875.4932	260+46.64	0.00' RT	POINT OF CURVATURE OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 122	760041.4570	13154875.5395	260+68.19	0.00' RT	POINT OF TANGENT OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 123	760408.0543	13154876.0494	264+34.79	0.00' RT	POINT OF CURVATURE OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 124	760443.4757	13154876.0359	264+70.21	0.00' RT	POINT OF TANGENT OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 125	760568.3033	13154875.7673	265+95.04	0.00' RT	POINT OF CURVATURE OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 126	760664.4749	13154876.0229	266+91.21	0.00' RT	POINT OF TANGENT OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 127	761037.1458	13154878.8052	270+63.89	0.00' RT	POINT OF CURVATURE OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 128	761078.3446	13154879.0280	271+05.09	0.00' RT	POINT OF TANGENT OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 129	761869.1897	13154881.6740	278+95.94	0.00' RT	POINT OF CURVATURE OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 130	761917.5777	13154881.9530	279+44.33	0.00' RT	POINT OF TANGENT OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 131	763121.6710	13154891.8085	291+48.46	0.00' RT	POINT OF CURVATURE OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 132	763143.0681	13154891.7547	291+69.86	0.00' RT	POINT OF TANGENT OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 133	763672.9618	13154884.7529	296+99.80	0.00' RT	POINT OF CURVATURE OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 134	763694.1796	13154884.6977	297+21.02	0.00' RT	POINT OF TANGENT OF POSEYVILLE ROAD PROJECT CONTROL LINE
AP 135	764723.1302	13154892.9351	307+50.00	0.00' RT	POINT OF ENDING OF POSEYVILLE ROAD PROJECT CONTROL LINE

SECTION CORNER DATA TABLE

NUMBER	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
QCOR 200	756612.1830	13154865.6770	226+38.90	1.75' LT	E-12, T14N-R2E, FOUND REMON MON, IN MON BOX
QCOR 201	759240.8840	13154872.8800	252+67.61	0.48' RT	E-11, T14N-R2E, FOUND REMON MON, IN MON BOX
QCOR 202	761893.3840	13154881.7550	279+20.13	0.03' LT	E-10, T14N-R2E, FOUND REMON MON, IN MON BOX
SCOR 203	764550.2090	13154903.5010	305+77.17	11.95' RT	E-9, T14N-R2E, FOUND REMON MON, IN MON BOX
SCOR 209	753975.7970	13154860.7260	200+05.47	49.46' RT	E-13, T14N-R2E, FOUND REMON MON

LEGEND

- ▲ BENCHMARK
- ALIGNMENT POINT
- △ TRAVERSE POINT
- ⊕ SECTION CORNER

NOTES:

VERTICAL DATUM IS NAVD88
 HORIZONTAL DATUM IS MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE NAD83 (2011)
 UNITS ARE INTERNATIONAL FEET.



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PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV:

SHT# 4 OF 72

JOB No: 20M0019

ROWE PROFESSIONAL SERVICES COMPANY



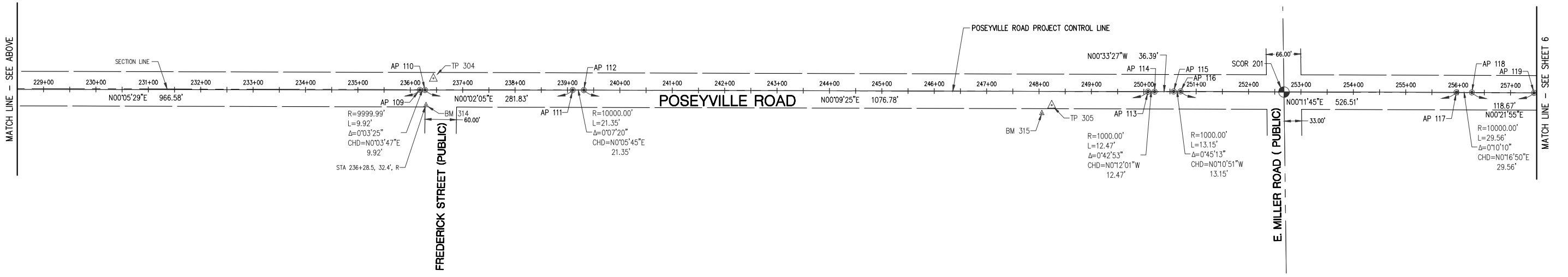
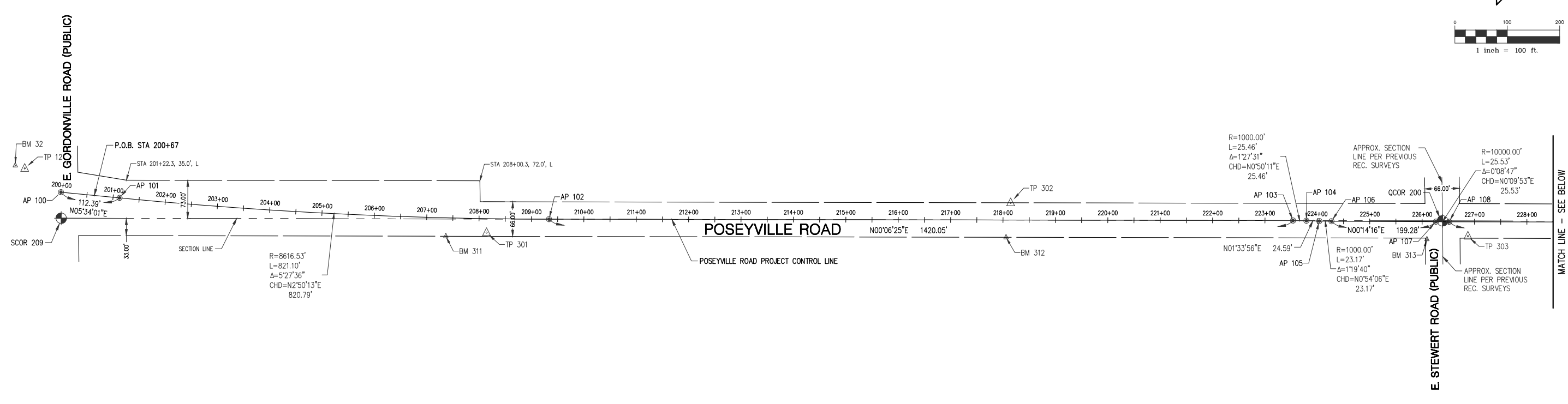
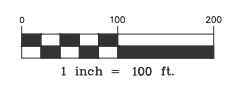
PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION

ALIGNMENT AND CONTROL SHEET

PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: JR
 SCALE: NO SCALE

O: (989) 772-2138
 F: (989) 773-7757
 www.rowepsc.com

127 S. Main Street
 Mt. Pleasant, MI 48858



LEGEND

△	BENCHMARK	●	ALIGNMENT POINT
△	TRAVERSE POINT	⊕	SECTION CORNER

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PLAN DATE: MARCH 2021
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 SCALE: 1" = 100'

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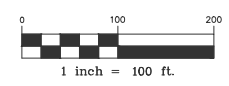


127 S. Main Street
 Mt. Pleasant, MI 48858

MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION

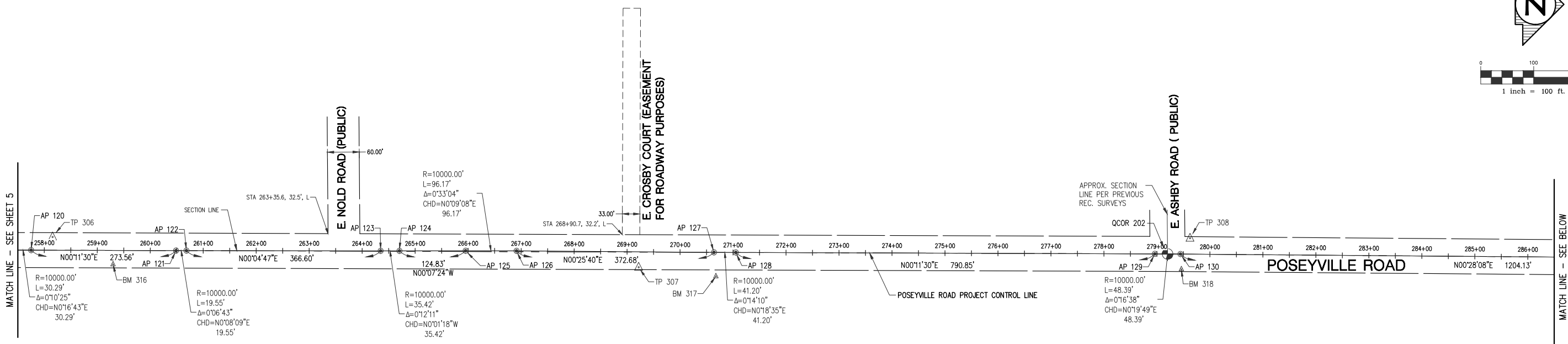
PREPARED FOR
 ALIGNMENT AND CONTROL SHEET

SHT# 5 OF 72
 JOB No: 20M0019

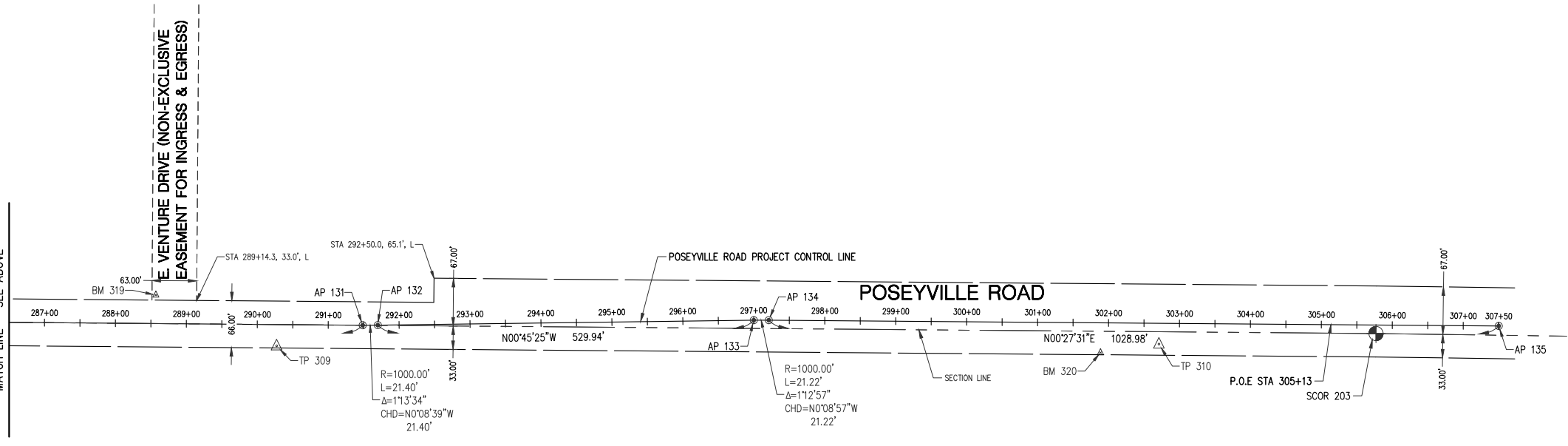


MATCH LINE - SEE SHEET 5

MATCH LINE - SEE BELOW



MATCH LINE - SEE ABOVE



LEGEND

- △ BENCHMARK
- ALIGNMENT POINT
- △ TRAVERSE POINT
- ⊕ SECTION CORNER

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3/19/21	ISSUED FOR BIDS

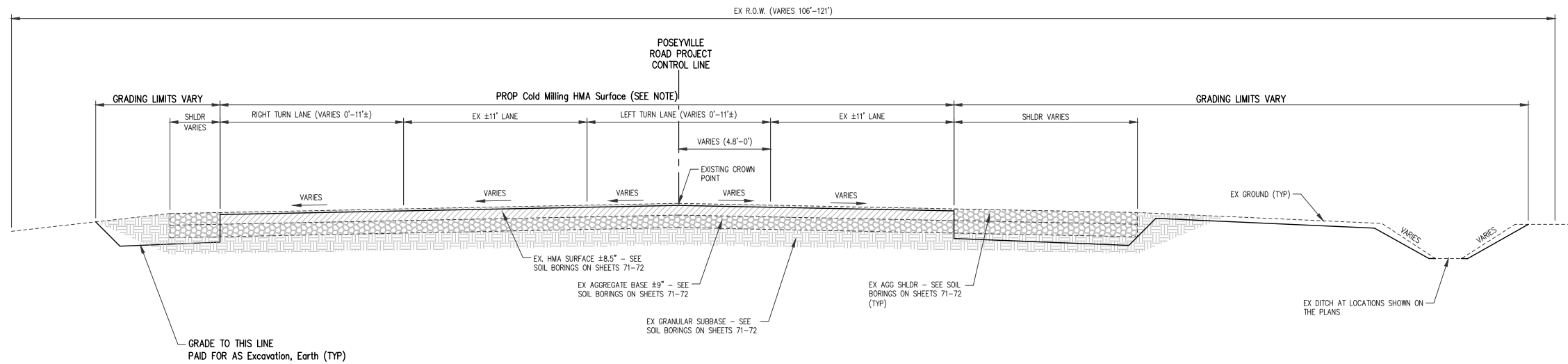
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811
 127 S. Main Street
 Mt. Pleasant, MI 48858

PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION

ALIGNMENT AND CONTROL SHEET
 REV: _____
 SHT# **6** OF **72**
 JOB No: 20M0019

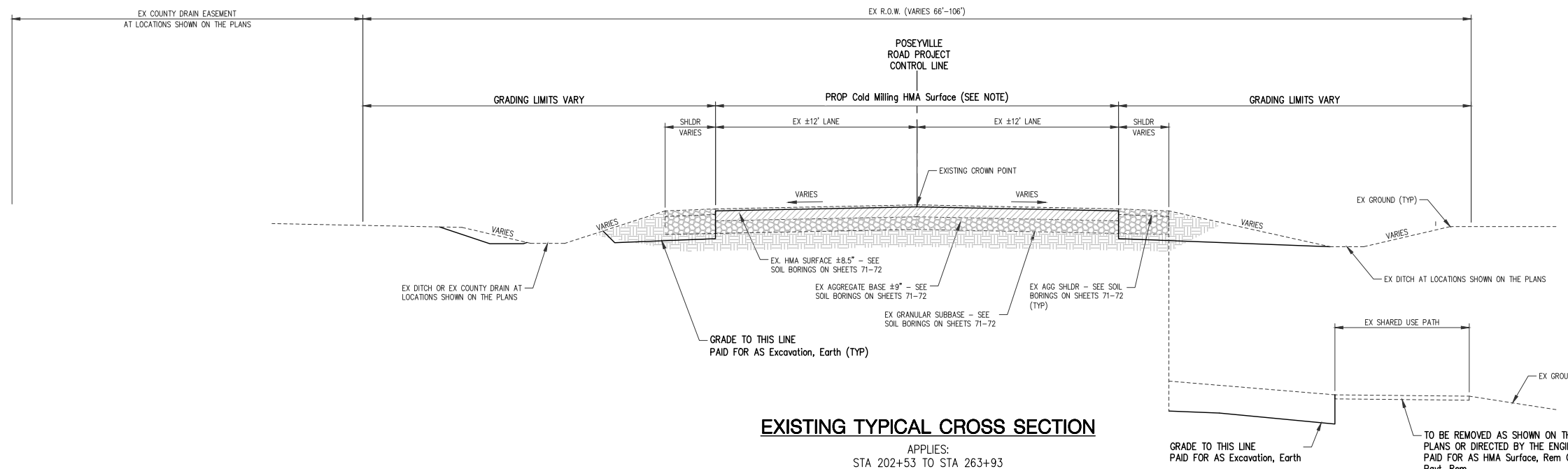


EXISTING TYPICAL CROSS SECTION

APPLIES:
STA 200+67 (P.O.B.) TO STA 202+53

CONSTRUCTION NOTES

1. PROFILE MILL THE EXISTING HMA SURFACE AT 2% DOWN (1.5" DEPTH) FROM THE EXISTING CROWN POINT OR AS DIRECTED BY THE ENGINEER.



EXISTING TYPICAL CROSS SECTION

APPLIES:
STA 202+53 TO STA 263+93

EXISTING PATH SECTION

APPLIES:
STA 249+90 RT TO STA 263+93 RT - AS NOTED ON PLANS

CONSTRUCTION NOTES

1. PROFILE MILL THE EXISTING HMA SURFACE AT 2% DOWN (1.5" DEPTH) FROM THE EXISTING CROWN POINT EXCEPT AS LISTED BELOW IN NOTE 2 OR AS DIRECTED BY THE ENGINEER.
2. FROM STA 224+66 TO STA 227+49 MILL THE EXISTING HMA SURFACE 1.5" UNIFORM DEPTH



Know what's below.
Call before you dig.

PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV:

SHT# 7 OF 72

JOB No: 20M0019

ROWE PROFESSIONAL SERVICES COMPANY



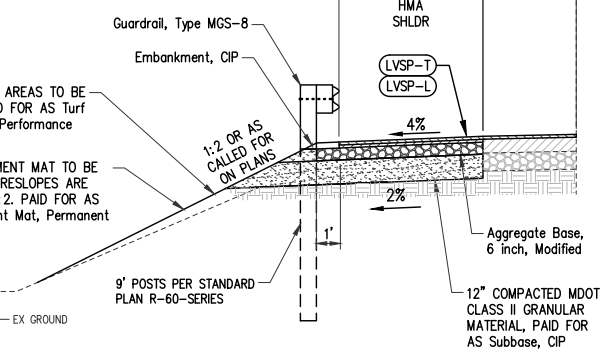
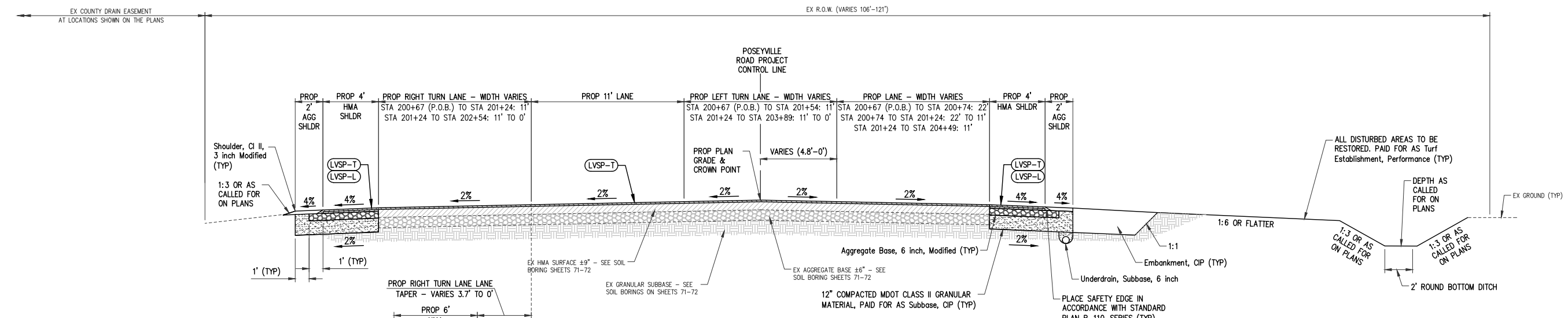
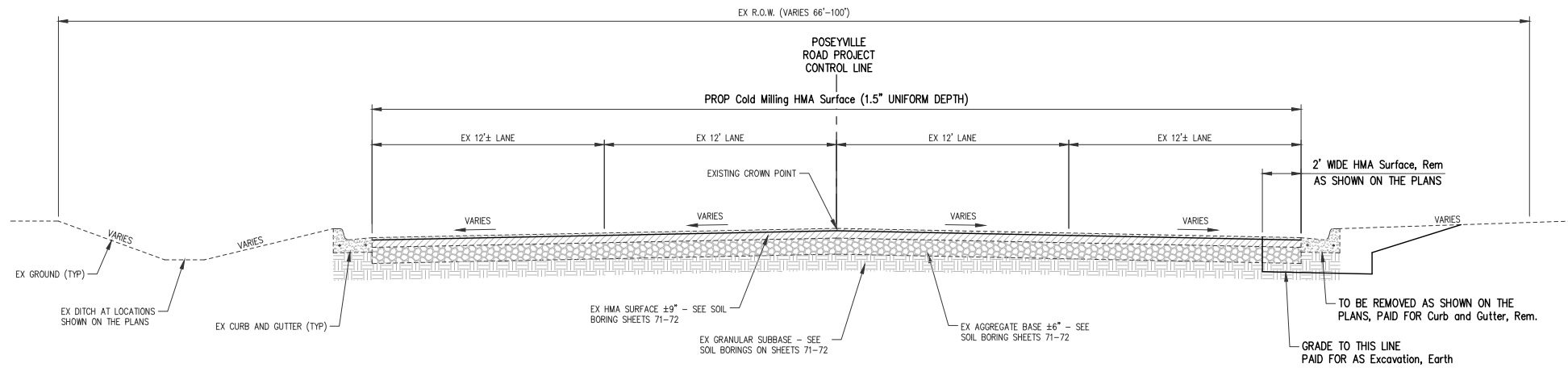
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PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION

TYPICAL CROSS SECTION SHEET

PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: NO SCALE

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HMA APPLICATION CHART					
IDENT NO	ITEM	HMA PAVEMENT	RATE OF APPLICATION	PERFORMANCE GRADE	COMMENTS
LVSP-T	HMA, LVSP	HMA, LVSP	165#/SYD	58-28	TOP COURSE (AW=260 MINIMUM)
LVSP-L	HMA, LVSP	HMA, LVSP	165#/SYD	58-28	LEVELING COURSE
LVSP-W	HMA, LVSP	HMA, LVSP	VARIES	58-28	WEDGING FOR PROFILE AND CROWN CORRECTIONS
HMA-A	HMA Approach	HMA, LVSP	-	58-28	MATCH MAINLINE APPLICATION RATES FOR INTERSECTIONS
HMA-D	HMA Approach	HMA, LVSP	330#/SYD	58-28	HMA, LVSP IN 2 LIFTS AT @ 165#/SYD FOR DRIVEWAYS AND PATHWAY REPLACEMENT
HP	Hand Patching	HMA, LVSP	VARIES	58-28	Hand Patching FOR STORM TRENCH REPAIRS (2" MAX LIFT, 1.5" MIN LIFT)
-	HMA BOND COAT	-	0.05-0.15 GAL	-	NOT A PAY ITEM; FOR INFORMATION ONLY

PLAN SUBMITTALS AND CHANGES		REV:
BIDDING DOCUMENTS		
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3/19/21	ISSUED FOR BIDS	

PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
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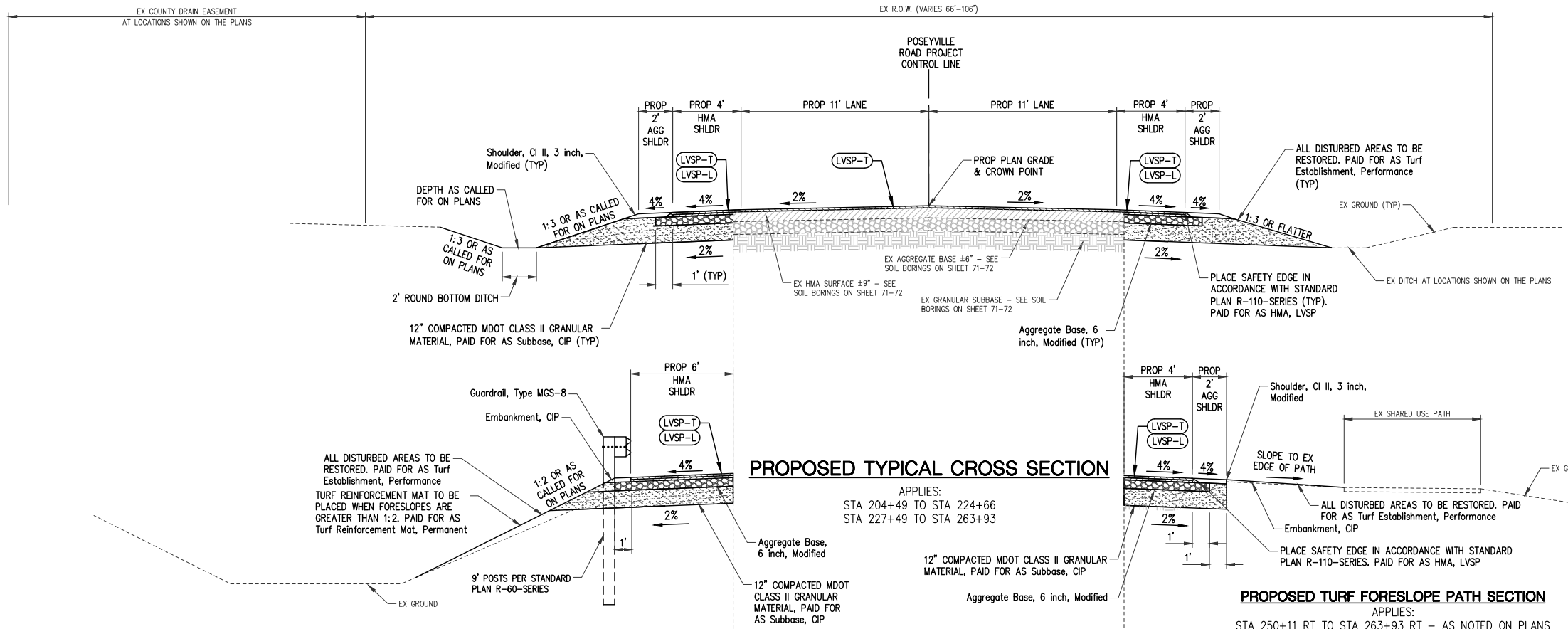


MIDLAND COUNTY ROAD COMMISSION
 2021 POSEYVILLE ROAD REHABILITATION
 TYPICAL CROSS SECTION SHEET

SHT# 8 OF 72
 JOB No: 20M0019



PLotted: 3/21/2021 8:28 AM
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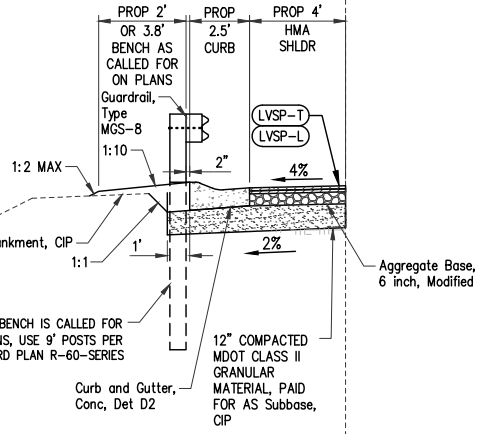


PROPOSED TYPICAL CROSS SECTION

APPLIES:
 STA 204+49 TO STA 224+66
 STA 227+49 TO STA 263+93

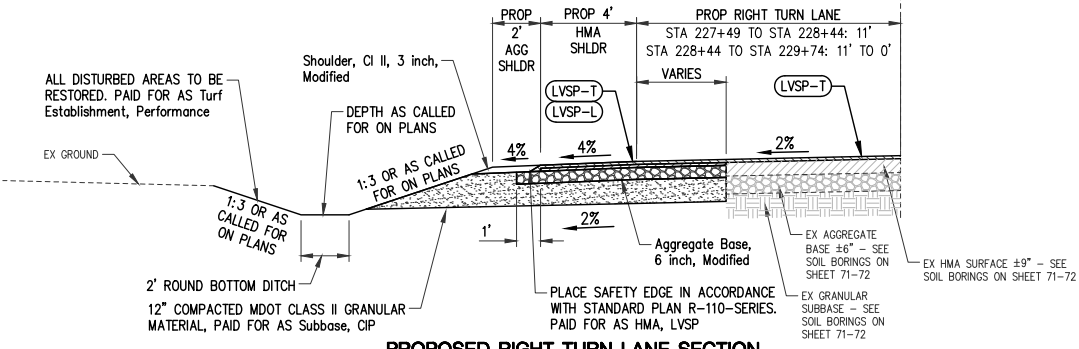
PROPOSED GUARDRAIL SECTION

APPLIES:
 STA 204+49 LT TO STA 208+80 LT



PROPOSED CONCRETE CURB SECTION

APPLIES:
 STA 239+40 LT TO STA 242+17 LT
 STA 239+08 RT TO STA 242+01 RT

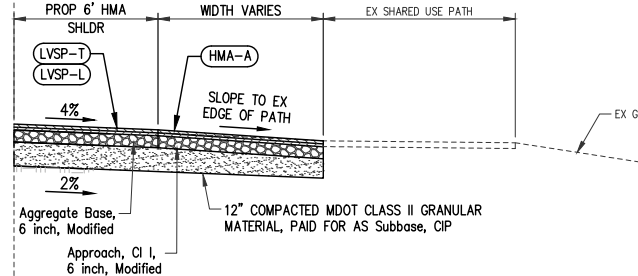


PROPOSED RIGHT TURN LANE SECTION

APPLIES:
 STA 227+49 LT TO STA 229+74 LT

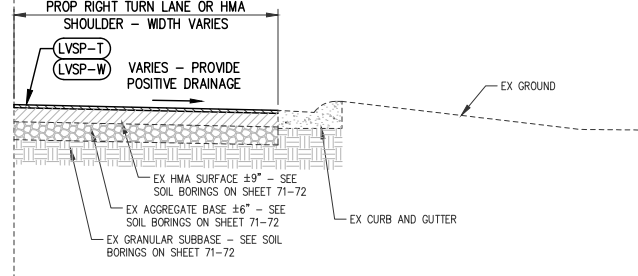
PROPOSED TURF FORESLOPE PATH SECTION

APPLIES:
 STA 250+11 RT TO STA 263+93 RT - AS NOTED ON PLANS



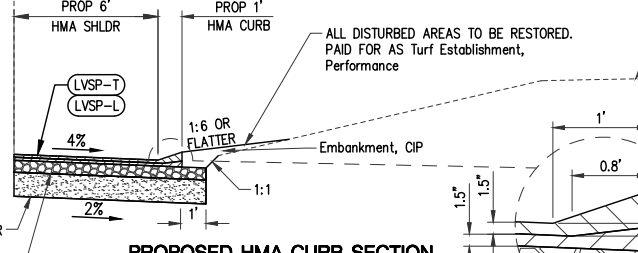
PROPOSED PAVED FORESLOPE PATH SECTION

APPLIES:
 STA 250+11 RT TO STA 263+93 RT - AS NOTED ON PLANS



PROPOSED EXISTING CONCRETE CURB SECTION

APPLIES:
 STA 227+49 RT TO STA 227+73 RT



PROPOSED HMA CURB SECTION

APPLIES:
 STA 236+08 LT TO STA 237+23 LT
 STA 247+22 RT TO STA 249+34 RT

HMA CURB NOTE

- 1. HMA CURB HEIGHT TO BE REDUCED TO 1.5" THROUGH DRIVEWAYS. TRANSITIONS TO OCCUR OVER 1 FOOT.



PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV: _____
 SHT# 9 OF 72
 JOB No: 20M0019

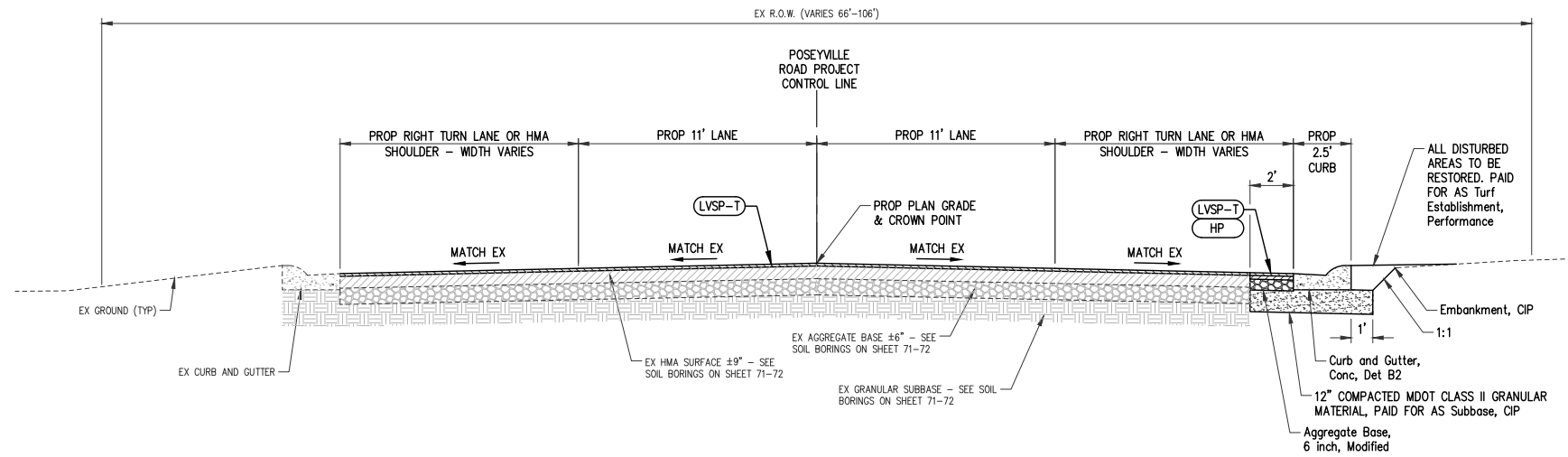
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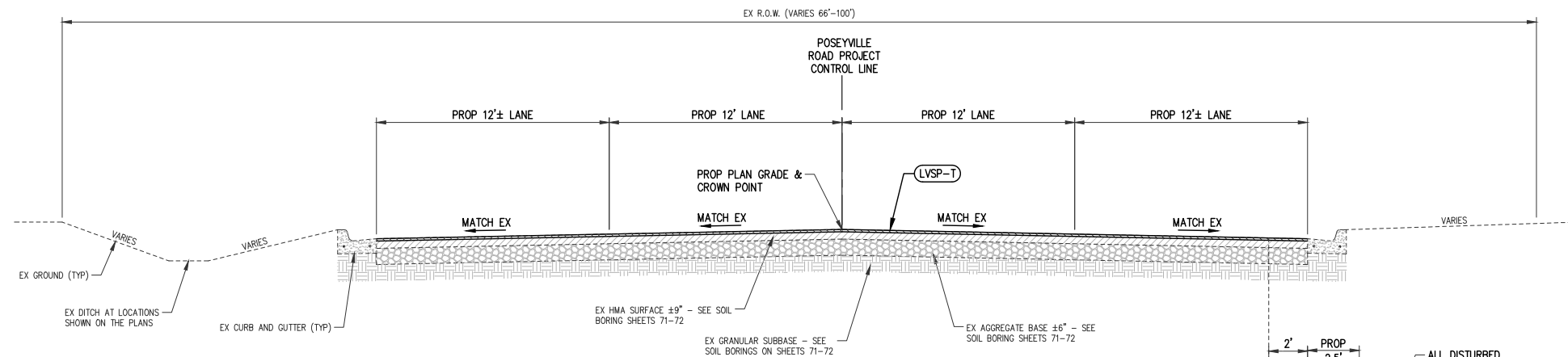
PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: NO SCALE

TYPICAL CROSS SECTION SHEET



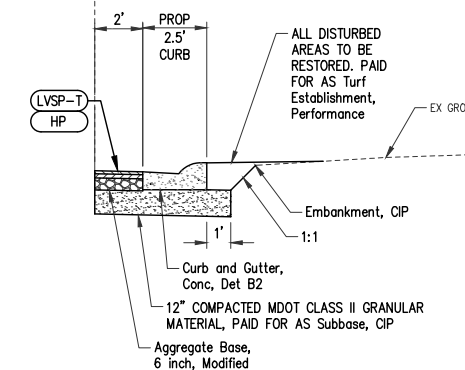
PROPOSED TYPICAL CROSS SECTION

APPLIES:
STA 224+66 TO STA 227+49



PROPOSED TYPICAL CROSS SECTION

APPLIES:
STA 263+93 TO STA 305+13 (P.O.E.)



PROPOSED CONCRETE CURB SECTION

APPLIES:
STA 268+53 RT TO STA 268+79 RT
STA 270+00 RT TO STA 270+21 RT
STA 270+64 RT TO STA 270+83 RT
STA 275+02 RT TO STA 275+84 RT
STA 276+26 RT TO STA 276+47 RT
STA 279+03 RT TO STA 279+13 RT
STA 293+65 RT TO STA 293+96 RT
STA 293+86 LT TO STA 293+98 LT



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PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV: _____
SHT# 10 of 72
JOB No: 20M0019

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2021 POSEYVILLE ROAD REHABILITATION

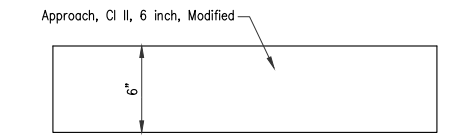
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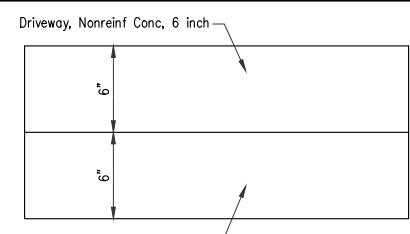
TYPICAL CROSS SECTION SHEET

PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: NO SCALE

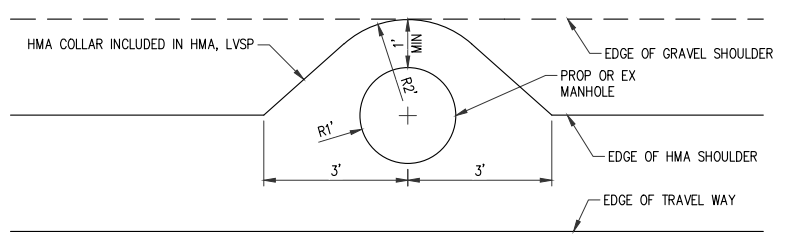
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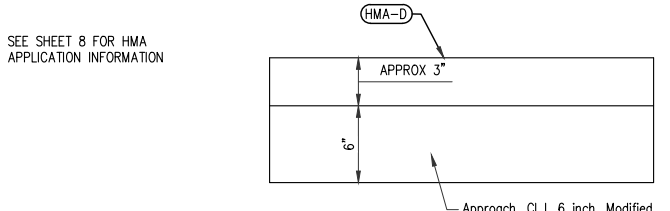
AGGREGATE DRIVEWAY SECTION
NO SCALE



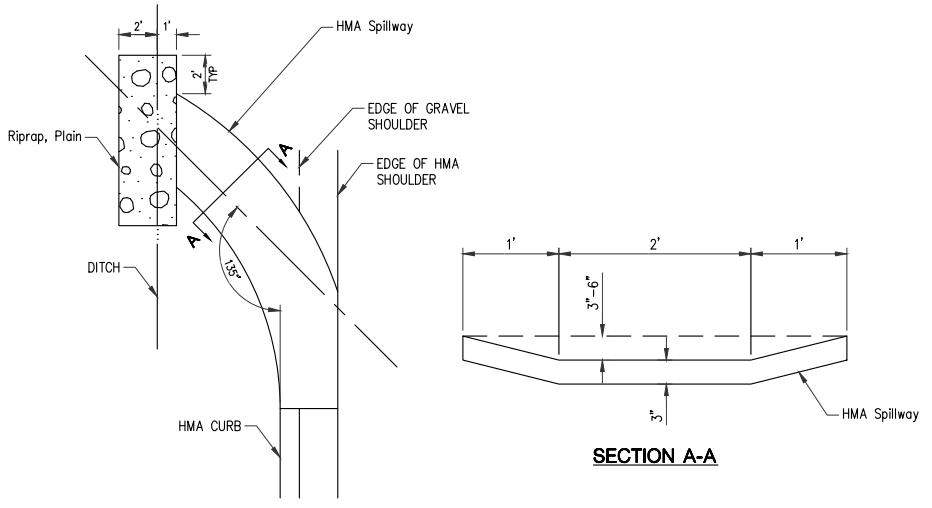
CONCRETE DRIVEWAY SECTION
NO SCALE



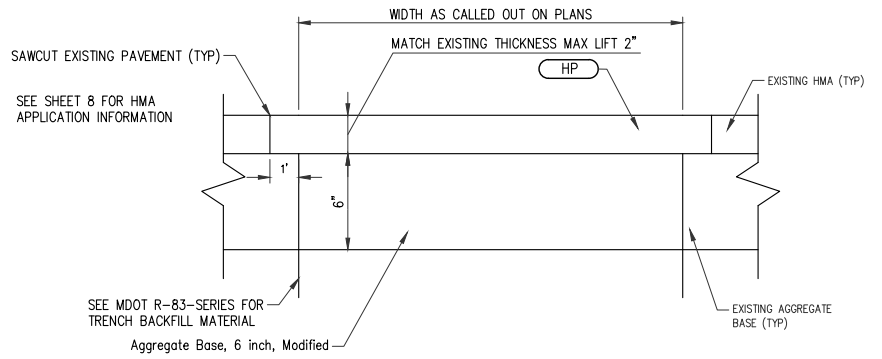
SHOULDER MANHOLE HMA COLLAR DETAIL
NO SCALE



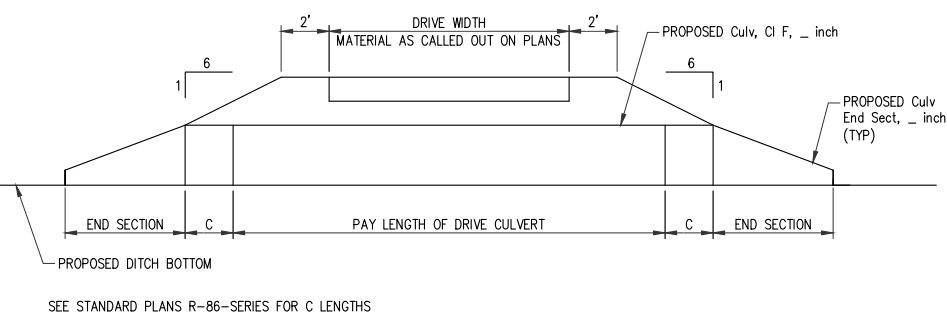
HMA DRIVEWAY AND PATHWAY SECTION
NO SCALE



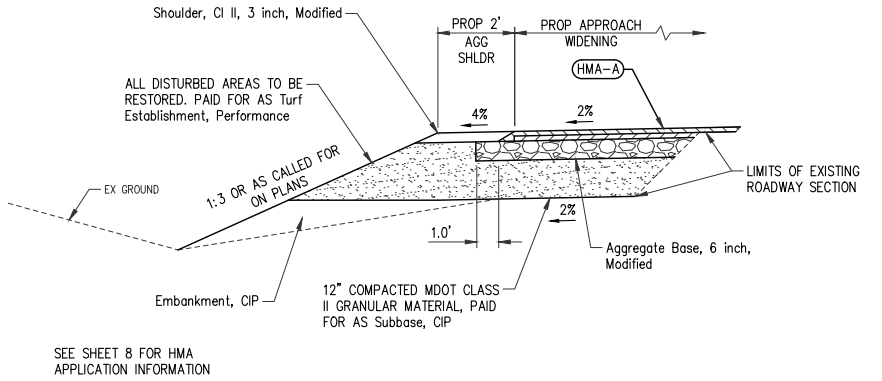
HMA SPILLWAY DETAIL
NO SCALE



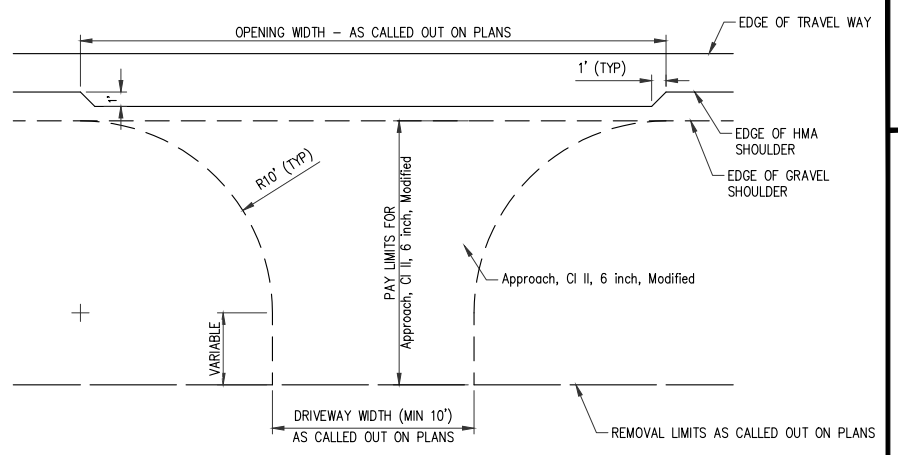
PAVEMENT REPAIR & STORM SEWER TRENCH DETAIL
NO SCALE



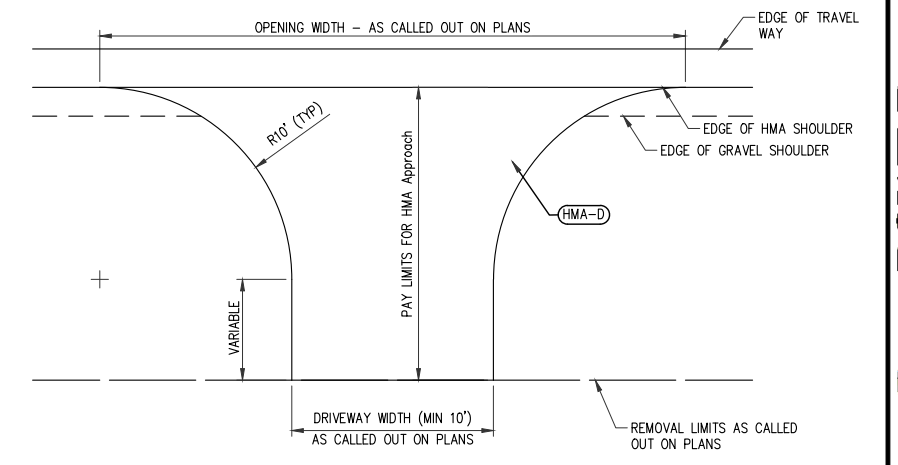
TYPICAL DRIVE CULVERT CROSS SECTION
NO SCALE



APPROACH WIDENING
NO SCALE



AGGREGATE DRIVEWAY DETAIL
NO SCALE



RESIDENTIAL HMA DRIVEWAY DETAIL
NO SCALE

PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: NO SCALE

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2021 POSEYVILLE ROAD REHABILITATION

DETAIL SHEET
SHT# 11 OF 72
JOB No: 20M0019



PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

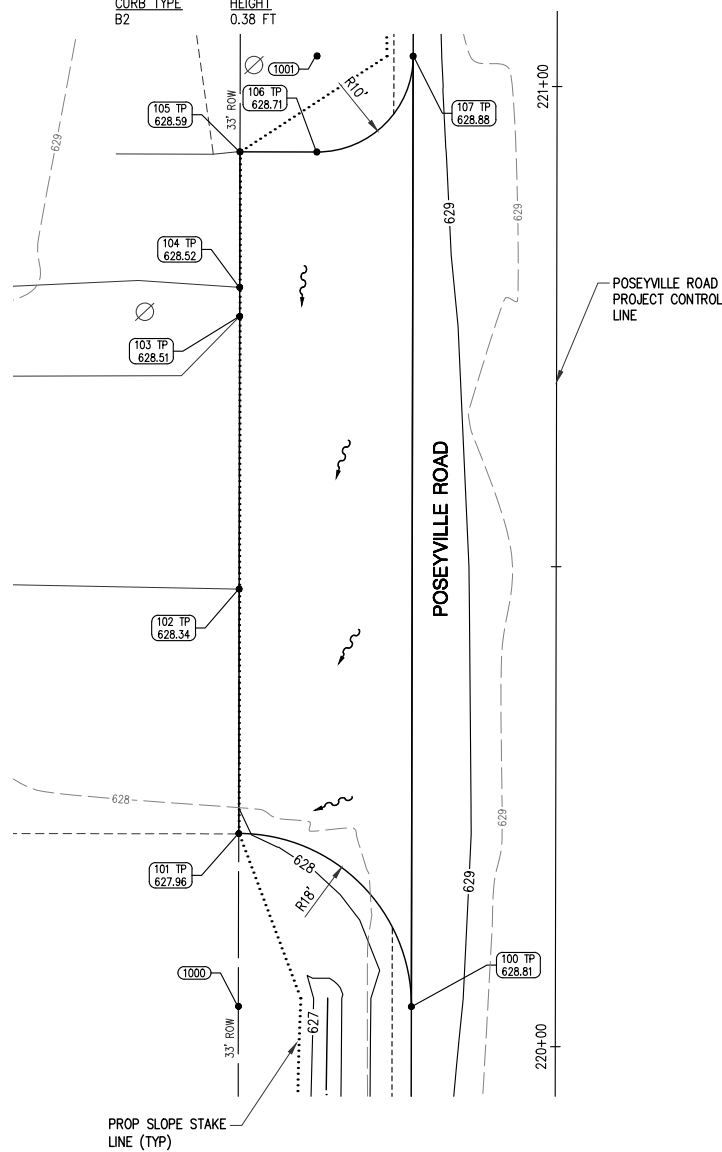
LEGEND

- TC - TOP OF CONCRETE CURB
- TP - TOP OF PAVEMENT
- DD - DUB DOWN
- ME - MATCH EXISTING ELEVATION
- PC - POINT OF CURVATURE
- EOM - EDGE OF METAL
- BC - TOP/BACK OF CURVE
- ~ - FLOW DIRECTION

CURB NOTE

1. THE GRADE FOR THE TOP OF BITUMINOUS PAVEMENT IS DETERMINED BY SUBTRACTING THE FOLLOWING HEIGHT FROM THE TOP OF CONCRETE CURB GRADES:
- | CURB TYPE | HEIGHT |
|-----------|---------|
| B2 | 0.33 FT |
2. TO CONVERT TOP OF DUB DOWN (DD) CURB ELEVATION TO FULL HEIGHT CURB ADD THE FOLLOWING HEIGHT TO THE GRADE:
- | CURB TYPE | HEIGHT |
|-----------|---------|
| B2 | 0.38 FT |

ALL A'S
AUTOMOTIVE

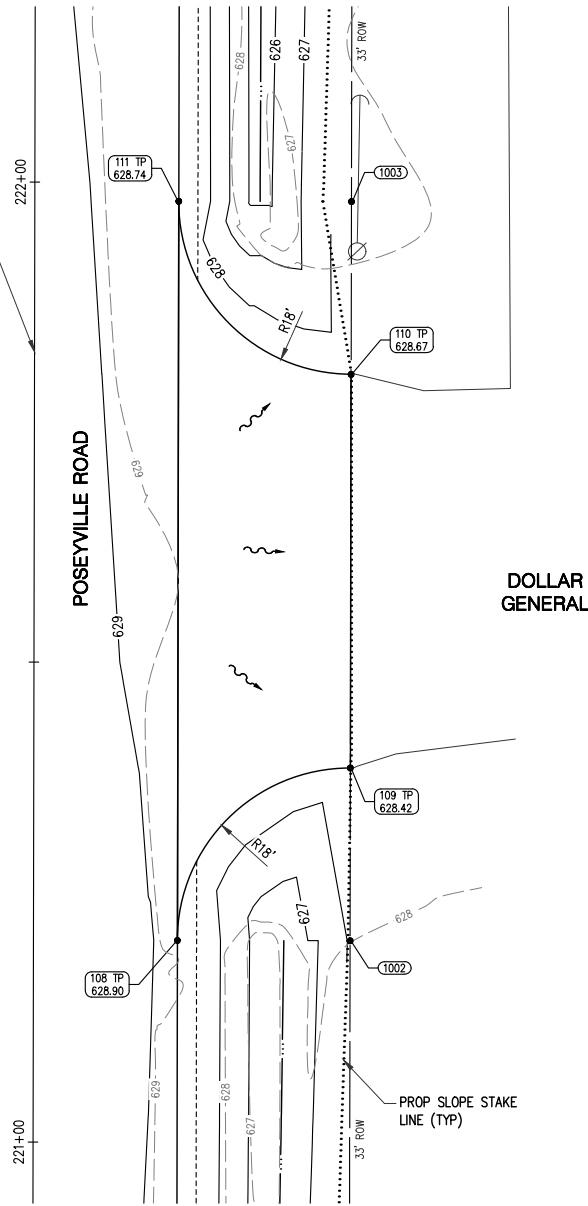


DRIVEWAY AT STA 220+54 DETAIL

POINT	ELEVATION	DESCRIPTION	STATION	OFFSET
100	TP=628.81	PC	220+04.14	15.00' L
101	TP=627.96	ME, PC	220+22.14	33.00' L
102	TP=628.34	ME	220+47.60	33.01' L
103	TP=628.51	ME	220+76.01	33.01' L
104	TP=628.52	ME	220+79.03	33.01' L
105	TP=628.59	ME	220+93.14	33.01' L
106	TP=628.71	PC	220+93.14	25.00' L
107	TP=628.88	PC	221+03.14	15.00' L

POINT	DESCRIPTION	STATION	OFFSET
1000	18' EOM RADIUS	220+04.14	33.00' L
1001	10' EOM RADIUS	221+03.14	25.00' L

POSEYVILLE ROAD
PROJECT CONTROL
LINE



DRIVEWAY AT STA 221+60 DETAIL

POINT	ELEVATION	DESCRIPTION	STATION	OFFSET
108	TP=628.90	PC	221+21.04	15.00' R
109	TP=628.42	ME, PC	221+39.04	32.99' R
110	TP=628.67	ME, PC	221+80.04	32.99' R
111	TP=628.74	PC	221+98.04	15.00' R

POINT	DESCRIPTION	STATION	OFFSET
1002	18' EOM RADIUS	221+21.04	33.00' R
1003	18' EOM RADIUS	221+98.04	33.00' R

OWENS
PARTY STORE

PROVIDE POSITIVE DRAINAGE
TO EXISTING CATCH BASIN

TRANSITION FROM FULL
HEIGHT CURB TO DUB DOWN
CURB OVER 10 FEET.

TRANSITION FROM DUB DOWN
CURB TO FULL HEIGHT CURB
OVER 10 FEET.

PROP SLOPE STAKE
LINE (TYP)

TAPER AND DRIVEWAY AT STA 225+05 DETAIL

POINT	ELEVATION	DESCRIPTION	STATION	OFFSET
112	TP=628.56		224+18.78	15.00' L
113	TC=628.31	TP, DD	224+59.03	21.43' L
114	TP=628.36		224+59.42	18.96' L
115	TC=628.62	PC	224+68.90	23.00' L
116	TC=628.52		224+76.35	26.10' L
117	TC=628.10	DD, ME	224+79.40	34.40' L
118	TP=627.78	TC, DD	225+14.52	23.11' L
119	CB=627.75		225+17.54	23.74' L
120	TP=627.82	TC, DD	225+20.44	23.13' L
121	TC=628.58	PC, ME	225+36.65	22.97' L
122	TP=627.92	ME	225+36.78	34.53' L
124	TC=628.33	PC, ME	225+36.81	27.97' L

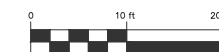
POINT	DESCRIPTION	STATION	OFFSET
1004	10.5' BC RADIUS	224+68.90	33.50' L
1006	2.5' BC RADIUS	225+36.73	25.47' L

POINT	STATION	OFFSET
123	224+79.40	33.50' L

NOTE:
LAYOUT POINTS ARE HORIZONTAL
GEOMETRY POINTS LOCATED WITHIN
A CURB HEIGHT TRANSITION.



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PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS		REV:
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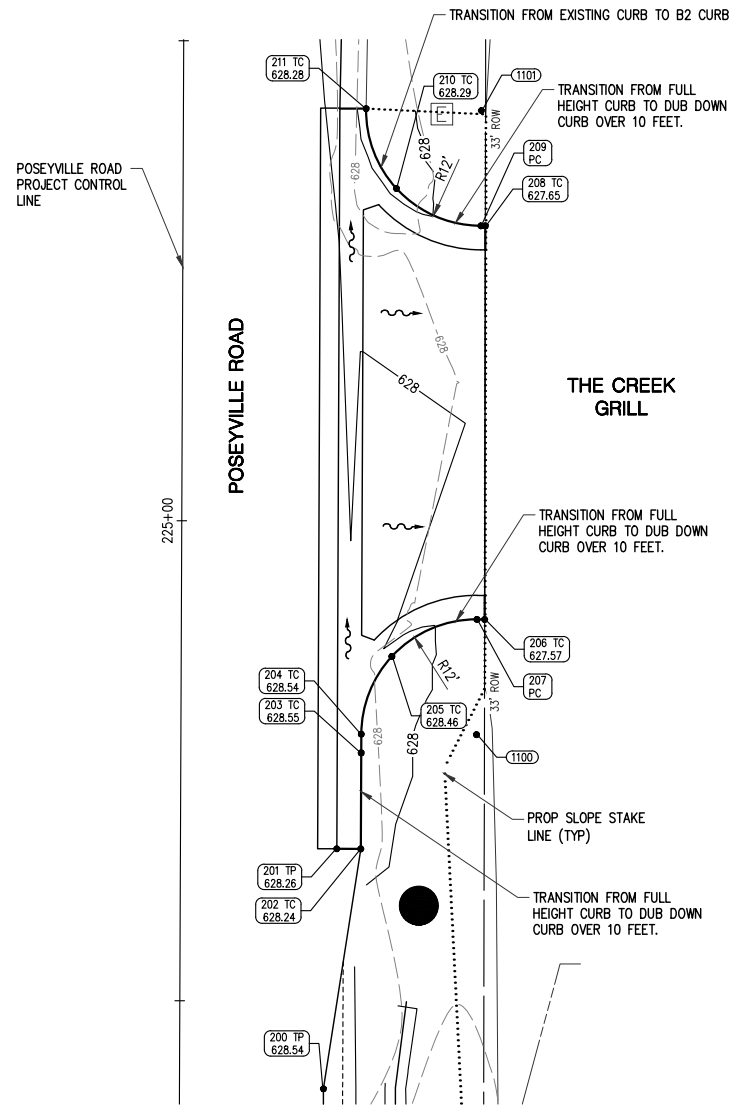
PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: 1"=10'

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2021 POSEYVILLE ROAD REHABILITATION**

DETAIL GRADING SHEET
SHT# 12 OF 72
JOB No: 20M0019



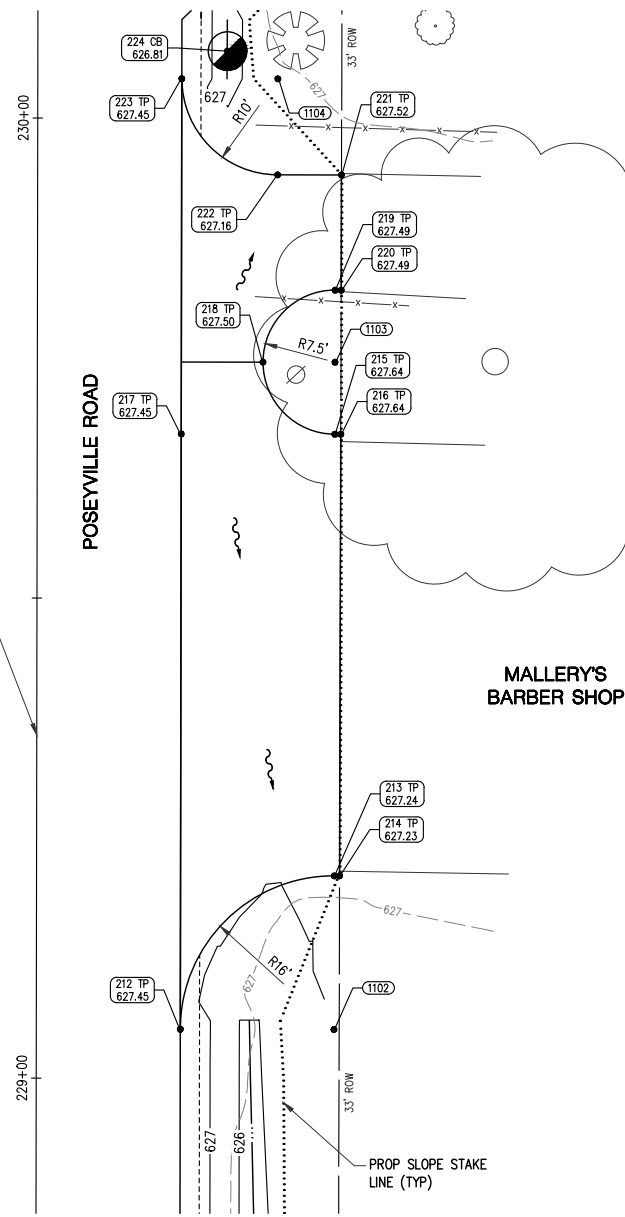
DRIVEWAY AT STA 225+10 DETAIL

GRADING TABLE				
POINT	ELEVATION	DESCRIPTION	STATION	OFFSET
200	TP=628.54		224+40.90	15.00' R
201	TP=628.26		224+65.90	16.28' R
202	TC=628.24	DD, TP	224+65.90	18.78' R
203	TC=628.55		224+75.90	18.78' R
204	TC=628.54	PC	224+77.85	18.78' R
205	TC=628.46		224+85.96	21.94' R
206	TC=627.57	DD, ME	224+89.85	31.58' R
208	TC=627.65	DD, ME	225+30.85	31.49' R
210	TC=628.29		225+34.70	22.21' R
211	TC=628.28	ME, PC	225+43.00	19.02' R

RADIUS POINTS			
POINT	DESCRIPTION	STATION	OFFSET
1100	12' BC RADIUS	224+77.85	30.78' R
1101	12' BC RADIUS	225+42.85	31.02' R

LAYOUT POINTS		
POINT	STATION	OFFSET
207	224+89.85	30.78' R
209	225+30.85	31.02' R

NOTE:
LAYOUT POINTS ARE HORIZONTAL
GEOMETRY POINTS LOCATED WITHIN
A CURB HEIGHT TRANSITION.



DRIVEWAY AT STA 229+44 DETAIL



GRADING TABLE				
POINT	ELEVATION	DESCRIPTION	STATION	OFFSET
212	TP=627.45	PC	229+05.11	15.00' R
213	TP=627.24	PC	229+21.11	31.00' R
214	TP=627.23	ME	229+21.11	31.56' R
215	TP=627.64	PC	229+67.11	31.00' R
216	TP=627.64	ME	229+67.11	31.61' R
217	TP=627.45		229+67.11	15.00' R
218	TP=627.50		229+74.61	23.50' R
219	TP=627.49	PC	229+82.12	31.00' R
220	TP=627.49	ME	229+82.12	31.63' R
221	TP=627.52	ME	229+94.12	31.65' R
222	TP=627.16	PC	229+94.12	25.00' R
223	TP=627.45	PC	230+04.12	15.00' R
224	CB=626.81		230+07.00	19.76' R

RADIUS POINTS			
POINT	DESCRIPTION	STATION	OFFSET
1102	16' EOM RADIUS	229+05.11	31.00' R
1103	7.5' EOM RADIUS	229+74.61	31.00' R
1104	10' EOM RADIUS	230+04.12	25.00' R

LEGEND

- TC - TOP OF CONCRETE CURB
- TP - TOP OF PAVEMENT
- DD - DUB DOWN
- ME - MATCH EXISTING ELEVATION
- PC - POINT OF CURVATURE
- EOM - EDGE OF METAL
- BC - TOP/BACK OF CURVE
- CB - CATCH BASIN RIM
- ~ - FLOW DIRECTION

CURB NOTE

- THE GRADE FOR THE TOP OF BITUMINOUS PAVEMENT IS DETERMINED BY SUBTRACTING THE FOLLOWING HEIGHT FROM THE TOP OF CONCRETE CURB GRADES:

CURB TYPE	HEIGHT
B2	0.33 FT

PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: 1"=10'

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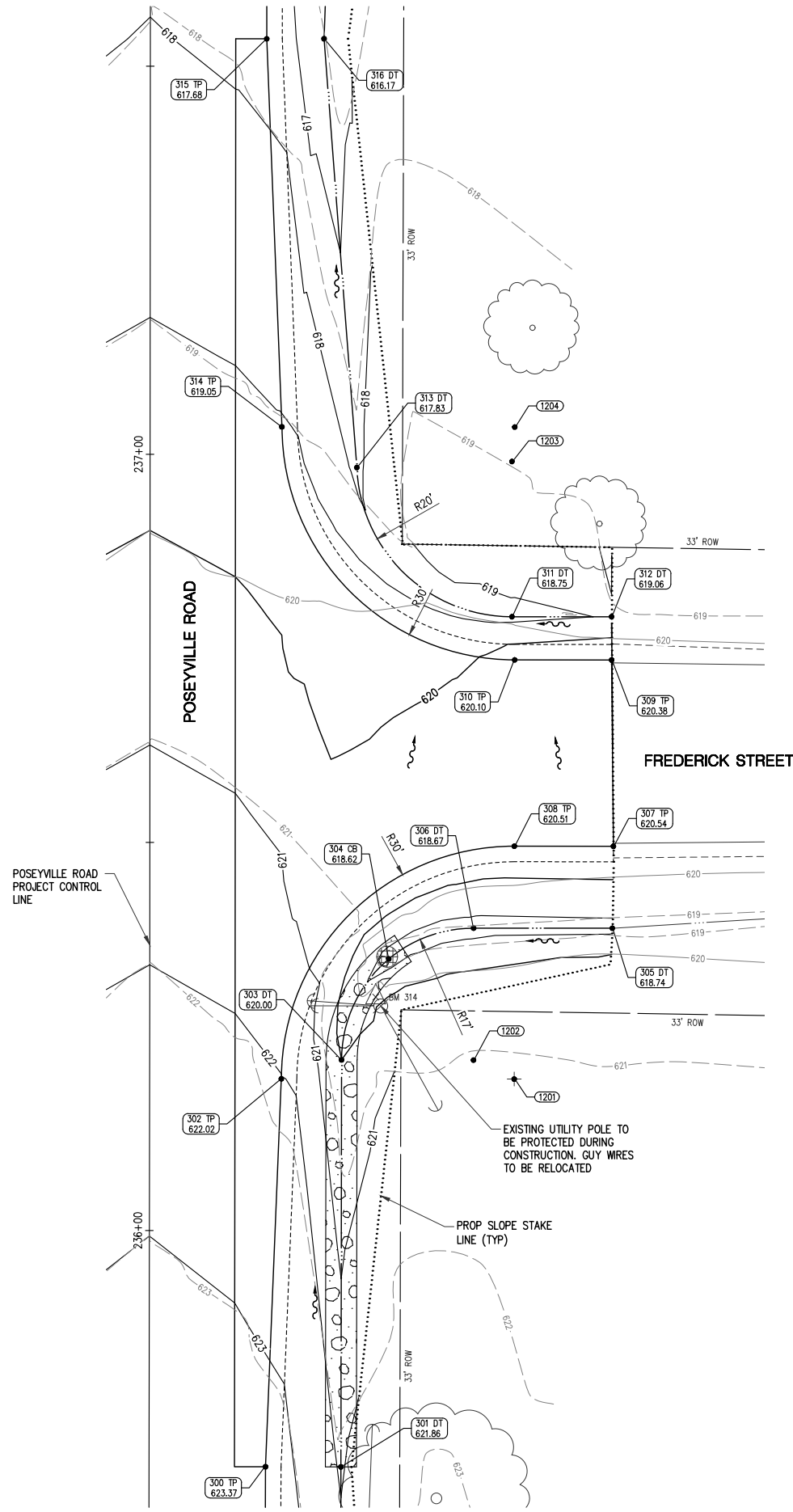
DETAIL GRADING SHEET
SHT# 13 OF 72
JOB No: 20M0019



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FREDERICK STREET INTERSECTION DETAIL

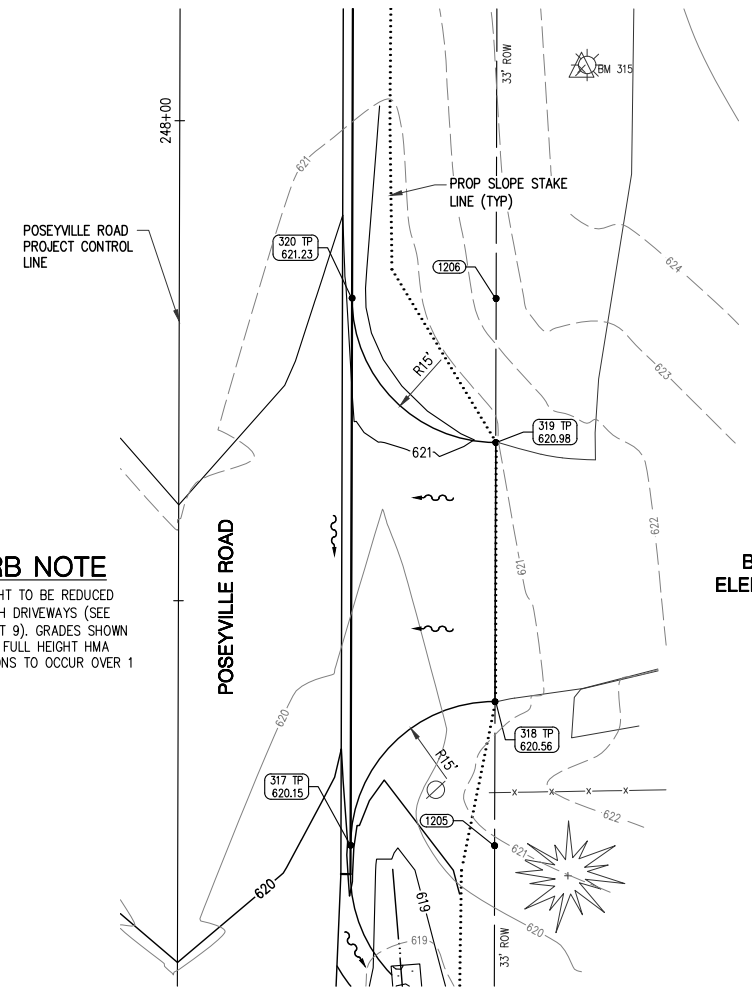
GRADING TABLE

POINT	ELEVATION	DESCRIPTION	STATION	OFFSET
300	TP=623.37		235+69.59	15.01' R
301	DT=621.86		235+69.59	24.72' R
302	TP=622.02	PC	236+19.56	16.96' R
303	DT=620.00	PC	236+22.01	24.72' R
304	CB=618.62		236+35.00	30.79' R
305	DT=618.74	ME	236+38.98	59.59' R
306	DT=618.67	PC	236+38.98	41.72' R
307	TP=620.54	ME	236+49.54	59.72' R
308	TP=620.51	PC	236+49.54	46.96' R
309	TP=620.38	ME	236+73.54	59.48' R
310	TP=620.10	PC	236+73.54	46.99' R
311	DT=618.75	PC	236+79.10	46.64' R
312	DT=619.06	ME	236+79.11	59.47' R
313	DT=617.83	PC	236+98.31	26.64' R
314	TP=619.05	PC	237+03.54	16.99' R
315	TP=617.68		237+53.54	15.00' R
316	DT=616.17		237+53.55	22.39' R

RADIUS POINTS

POINT	DESCRIPTION	STATION	OFFSET
1201	30' EOM RADIUS	236+19.58	46.96' R
1202	17' DT RADIUS	236+22.00	41.72' R
1203	18' DT RADIUS	236+99.10	46.62' R
1204	30' EOM RADIUS	237+03.54	46.99' R

HMA CURB NOTE
 1. HMA CURB HEIGHT TO BE REDUCED TO 1.5" THROUGH DRIVEWAYS (SEE DETAIL ON SHEET 9). GRADES SHOWN ARE TO TOP OF FULL HEIGHT HMA CURB. TRANSITIONS TO OCCUR OVER 1 FOOT.



DRIVEWAY AT STA 247+53 DETAIL

GRADING TABLE

POINT	ELEVATION	DESCRIPTION	STATION	OFFSET
317	TP=620.15	TC, PC, SEE NOTE	247+24.58	18.00' R
318	TP=620.56	ME, PC	247+39.58	33.00' R
319	TP=620.98	ME, PC	247+66.58	33.00' R
320	TP=621.23	TC, PC, SEE NOTE	247+81.58	18.00' R

RADIUS POINTS

POINT	DESCRIPTION	STATION	OFFSET
1205	15' EOM RADIUS	247+24.58	33.00' R
1206	15' EOM RADIUS	247+81.58	33.00' R



PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS		REV:
DATE	DESCRIPTION	
3/19/21	ISSUED FOR BIDS	

LEGEND
 TP - TOP OF PAVEMENT
 DD - DUB DOWN
 ME - MATCH EXISTING ELEVATION
 PC - POINT OF CURVATURE
 EOM - EDGE OF METAL
 CB - CATCH BASIN RIM
 DT - DITCH
 ~ - FLOW DIRECTION

PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: 1"=10'

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MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION

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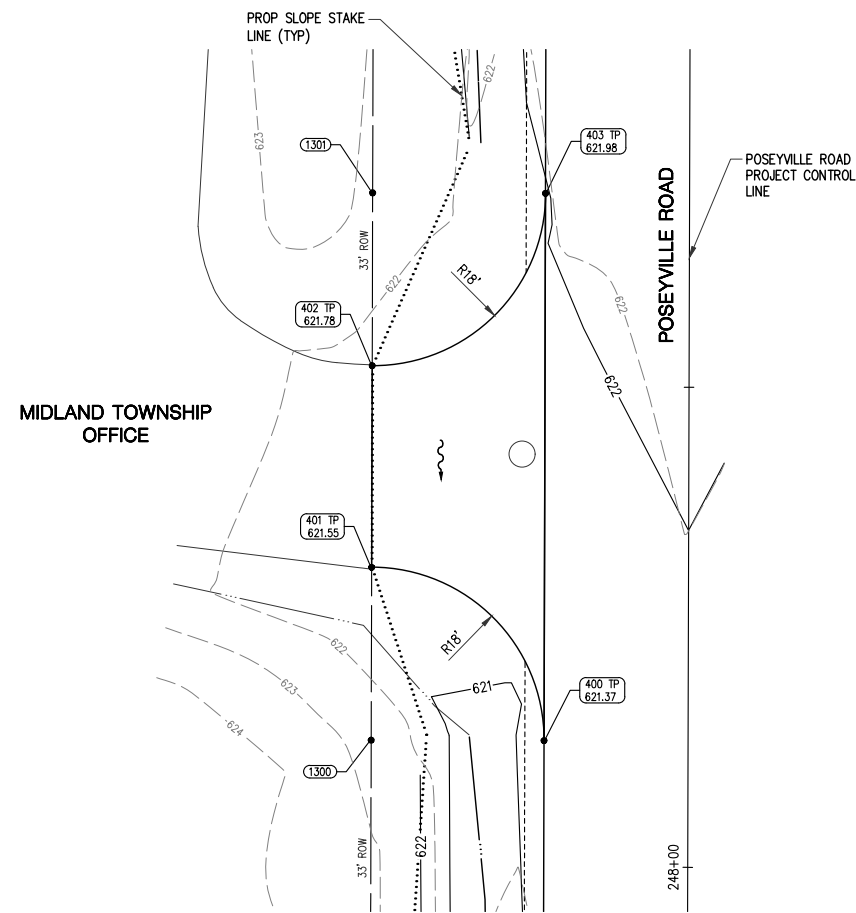
DETAIL GRADING SHEET

SHT# 14 OF 72
 JOB No: 20M0019

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LEGEND

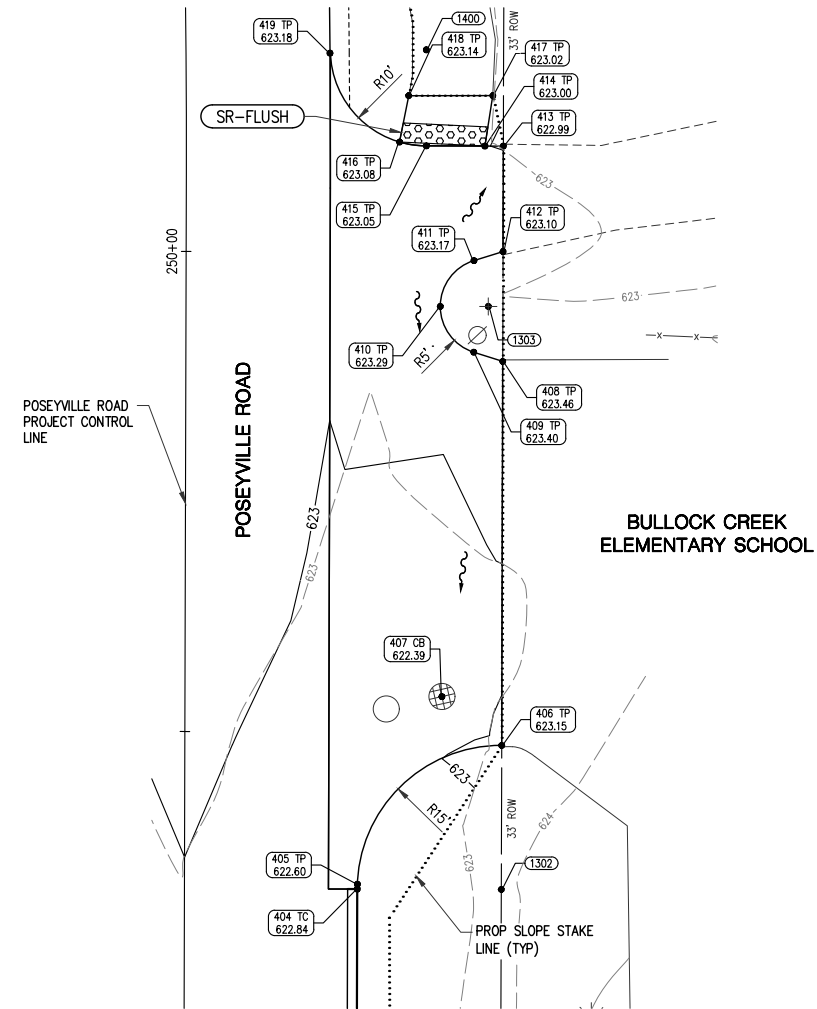
- TP - TOP OF PAVEMENT
- DD - DUB DOWN
- ME - MATCH EXISTING ELEVATION
- PC - POINT OF CURVATURE
- EOM - EDGE OF METAL
- CB - CATCH BASIN RIM
- ~ - FLOW DIRECTION



DRIVEWAY AT STA 248+42 DETAIL

GRADING TABLE				
POINT	ELEVATION	DESCRIPTION	STATION	OFFSET
400	TP=621.37	PC	248+13.16	15.00' L
401	TP=621.55	ME, PC	248+31.16	33.00' L
402	TP=621.78	ME, PC	248+52.16	33.00' L
403	TP=621.98	PC	248+70.16	15.00' L

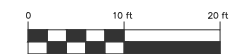
RADIUS POINTS			
POINT	DESCRIPTION	STATION	OFFSET
1300	18' EOM RADIUS	248+13.16	33.00' L
1301	18' EOM RADIUS	248+70.16	33.00' L



DRIVEWAY AT STA 249+69 DETAIL

GRADING TABLE				
POINT	ELEVATION	DESCRIPTION	STATION	OFFSET
404	TP=622.84		249+33.64	18.00' R
405	TP=622.60		249+34.14	18.01' R
406	TP=623.15	PC, ME	249+48.64	33.00' R
407	CB=622.39		249+53.71	26.76' R
408	TP=623.46	ME	249+88.64	33.00' R
409	TP=623.40	PC	249+89.59	29.98' R
410	TP=623.29		249+94.35	26.48' R
411	TP=623.17	PC	249+99.13	29.98' R
412	TP=623.10	ME	250+00.08	33.00' R
413	TP=622.99	ME	250+10.97	33.00' R
414	TP=623.00		250+10.97	31.09' R
415	TP=623.05	PC	250+10.99	24.98' R
416	TP=623.08		250+11.38	22.19' R
417	TP=623.02	ME	250+16.06	31.92' R
418	TP=623.14	ME	250+16.10	23.16' R
419	TP=623.18	PC	250+20.51	15.00' R

RADIUS POINTS			
POINT	DESCRIPTION	STATION	OFFSET
1302	15' EOM RADIUS	249+33.64	33.00' R
1303	5' EOM RADIUS	249+94.36	31.48' R
1400	10' EOM RADIUS	250+20.75	25.03' R



Know what's below.
Call before you dig.

PLAN SUBMITTALS AND CHANGES		REV:
BIDDING DOCUMENTS		
DATE	DESCRIPTION	
3/19/21	ISSUED FOR BIDS	

SHT# 15 OF 72
JOB No: 20M0019

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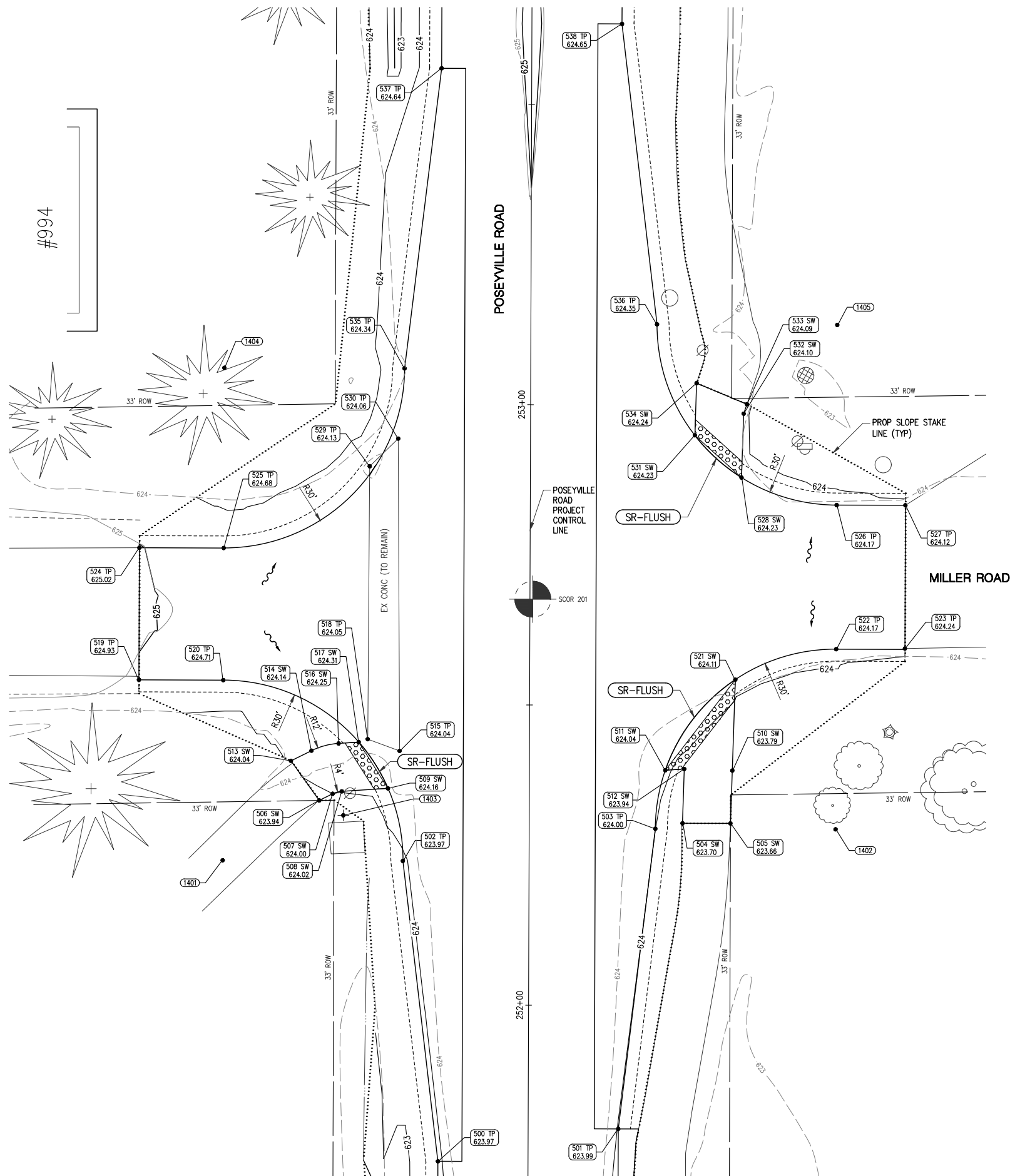
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PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION

DETAIL GRADING SHEET

PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: 1"=10'

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LEGEND

- TP - TOP OF PAVEMENT
- EOM - EDGE OF METAL
- DD - DUB DOWN
- ME - MATCH EXISTING ELEVATION
- PC - POINT OF CURVATURE
- SW - TOP OF SIDEWALK
- ~ - FLOW DIRECTION

GRADING TABLE				
POINT	ELEVATION	DESCRIPTION	STATION	OFFSET
500	TP=623.97		251+73.96	15.00' L
501	TP=623.99		251+79.46	15.00' R
502	TP=623.97	PC	252+23.96	21.00' L
503	TP=624.00	PC	252+29.46	21.00' R
504	SW=623.70	ME	252+30.38	25.52' R
505	SW=623.66	ME	252+30.39	33.50' R
506	SW=623.94	ME	252+33.98	34.95' L
507	SW=624.00	PC	252+35.09	32.72' L
508	SW=624.02	PC	252+35.50	31.22' L
509	SW=624.16		252+36.03	23.54' L
510	SW=623.79		252+39.18	33.78' R
511	SW=624.04		252+39.21	22.63' R
512	SW=623.94		252+39.42	25.79' R
513	SW=624.04	ME	252+40.56	39.89' L
514	SW=624.14	PC	252+42.26	36.28' L
515	TP=624.04	ME	252+42.27	21.61' L
516	SW=624.25	PC	252+43.48	31.76' L
517	SW=624.31		252+43.71	28.42' L
518	TP=624.05	ME	252+44.21	26.92' L
519	TP=624.93	ME	252+53.96	65.04' L

GRADING TABLE				
POINT	ELEVATION	DESCRIPTION	STATION	OFFSET
520	TP=624.71	PC	252+53.96	51.00' L
521	SW=624.11		252+54.34	34.24' R
522	TP=624.17	PC	252+59.46	51.00' R
523	TP=624.24	ME	252+59.60	62.44' R
524	TP=625.02	ME	252+75.96	65.04' L
525	TP=624.68	PC	252+75.96	51.00' L
526	TP=624.17	PC	252+83.46	51.00' R
527	TP=624.12	ME	252+83.46	62.44' R
528	SW=624.23		252+87.99	35.15' R
529	TP=624.13	ME	252+89.65	26.75' L
530	TP=624.06	ME	252+94.27	22.01' L
531	SW=624.23		252+94.99	27.35' R
532	SW=624.10		252+98.62	35.47' R
533	SW=624.09	ME	253+00.20	36.00' R
534	SW=624.24	ME	253+03.67	27.61' R
535	TP=624.34	PC	253+05.96	21.00' L
536	TP=624.35	PC	253+13.46	21.00' R
537	TP=624.64		253+55.96	15.00' L
538	TP=624.65		253+63.46	15.00' R

RADIUS POINTS			
POINT	DESCRIPTION	STATION	OFFSET
1401	30' EOM RADIUS	252+23.96	51.00' L
1402	30' EOM RADIUS	252+29.46	51.00' R
1403	4' & 12' SW RADIUS	252+31.51	30.94' L
1404	30' EOM RADIUS	253+05.96	51.00' L
1405	30' EOM RADIUS	253+13.46	51.00' R

MILLER ROAD INTERSECTION DETAIL



PLAN SUBMITTALS AND CHANGES		REV:
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DATE	DESCRIPTION	
3/19/21	ISSUED FOR BIDS	

SHT# 16 OF 72
JOB No: 20M0019

PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: 1"=10'

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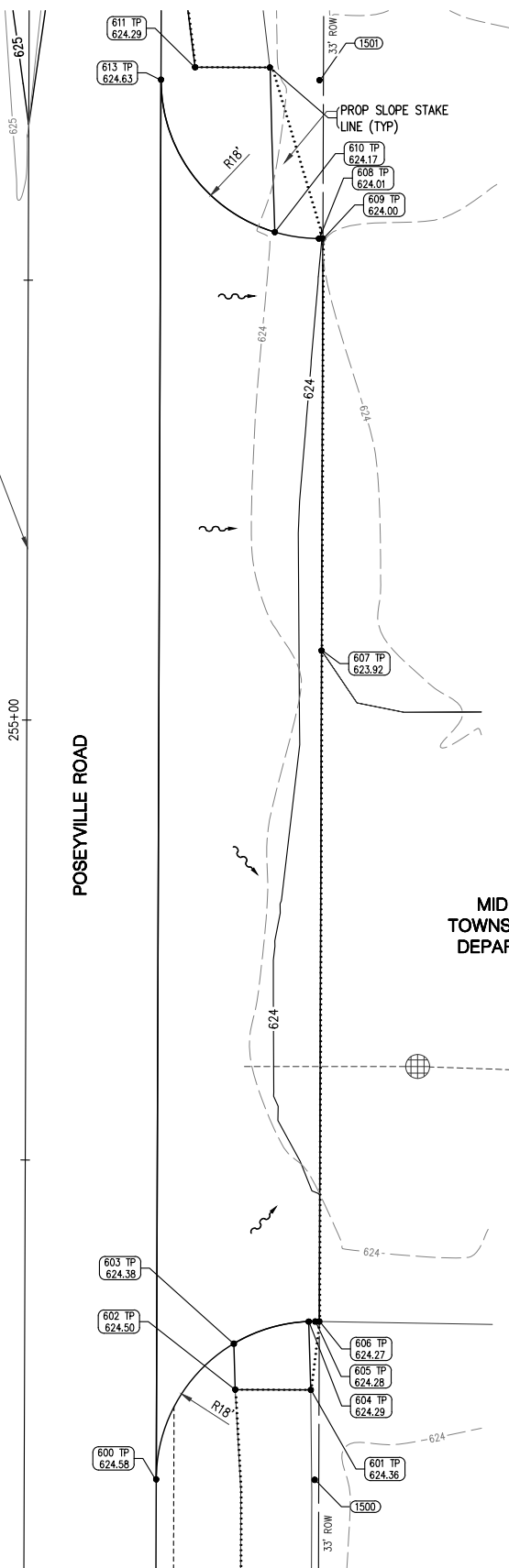
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2021 POSEYVILLE ROAD REHABILITATION

DETAIL GRADING SHEET



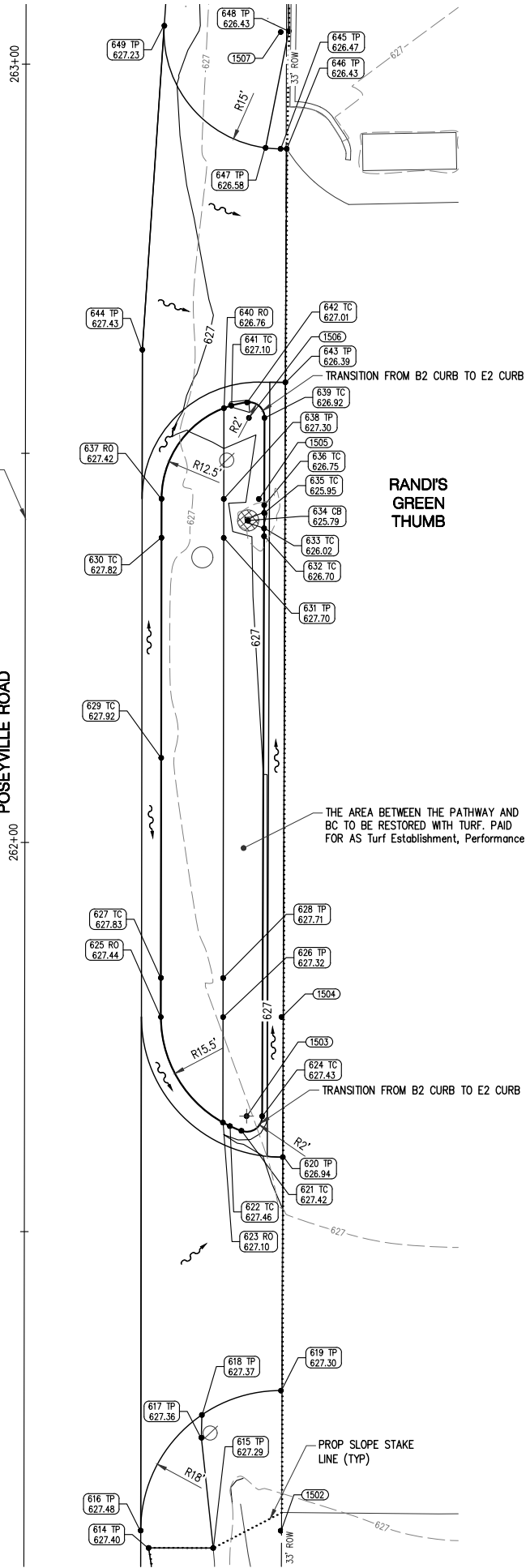
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DRIVEWAY AT STA 254+93 DETAIL

GRADING TABLE				
POINT	ELEVATION	DESCRIPTION	STATION	OFFSET
600	TP=624.58	PC	254+13.76	15.00' R
601	TP=624.36	ME	254+23.98	32.52' R
602	TP=624.50	ME	254+23.99	23.94' R
603	TP=624.38		254+29.21	23.77' R
604	TP=624.29		254+31.74	32.26' R
605	TP=624.28	PC	254+31.76	33.00' R
606	TP=624.27	ME	254+31.76	33.46' R
607	TP=623.92	ME	255+08.01	33.46' R
608	TP=624.01	PC	255+54.84	33.00' R
609	TP=624.00	ME	255+54.84	33.45' R
610	TP=624.17		255+55.55	27.98' R
611	TP=624.29	ME	255+74.26	18.87' R
612	TP=624.15	ME	255+74.26	27.36' R
613	TP=624.63	PC	255+72.84	15.00' R

RADIUS POINTS			
POINT	DESCRIPTION	STATION	OFFSET
1500	18' EOM RADIUS	254+13.76	33.00' R
1501	18' EOM RADIUS	255+72.84	33.00' R



DRIVEWAY AT STA 261+45 DETAIL

LEGEND

- TC - TOP OF CONCRETE CURB
- TP - TOP OF PAVEMENT
- DD - DUB DOWN
- ME - MATCH EXISTING ELEVATION
- PC - POINT OF CURVATURE
- EOM - EDGE OF METAL
- BC - TOP/BACK OF CURB
- SW - TOP OF SIDEWALK
- CB - CATCH BASIN RIM
- RO - RAMP OPENING
- ~ - FLOW DIRECTION

CURB NOTE

1. THE GRADE FOR THE TOP OF BITUMINOUS PAVEMENT IS DETERMINED BY SUBTRACTING THE FOLLOWING HEIGHT FROM THE TOP OF CONCRETE CURB GRADES:

CURB TYPE	HEIGHT
B2	0.33 FT
E2	0.58 FT
2. TO CONVERT TOP OF DUB DOWN (DD) CURB OR RAMP OPENING (RO) ELEVATION TO FULL HEIGHT CURB ADD THE FOLLOWING HEIGHT TO THE GRADES:

CURB TYPE	HEIGHT
B2	0.38 FT
E2	0.58 FT

GRADING TABLE				
POINT	ELEVATION	DESCRIPTION	STATION	OFFSET
614	TP=627.40	ME	261+09.39	16.02' R
615	TP=627.29	ME	261+09.39	24.33' R
616	TP=627.48	PC	261+11.62	15.00' R
617	TP=627.36		261+23.56	22.78' R
618	TP=627.37		261+26.48	22.85' R
619	TP=627.30	ME, PC	261+29.62	33.00' R
620	TP=626.94	ME	261+59.62	33.20' R
621	TC=627.42	PC	261+62.99	27.88' R
622	TC=627.46		261+63.60	26.39' R
623	RO=627.10	TC, TP	261+64.06	25.50' R
624	TC=627.43	PC	261+64.87	30.54' R
625	RO=627.44	TC, TP, PC	261+77.60	17.50' R
626	TP=627.32		261+77.60	25.50' R
627	TC=627.83	TP	261+82.62	17.50' R
628	TP=627.71		261+82.62	25.50' R
629	TC=627.92	TP	262+10.89	17.50' R
630	TC=627.82	TP	262+39.17	17.50' R
631	TP=627.70		262+39.17	25.50' R
632	TC=626.70		262+39.39	30.68' R
633	TC=626.02	DD	262+40.39	30.69' R

RADIUS POINTS			
POINT	DESCRIPTION	STATION	OFFSET
1502	18' EOM RADIUS	261+11.62	33.00' R
1503	2' BC RADIUS	261+64.88	28.54' R
1504	15.5' BC RADIUS	261+77.62	33.00' R
1505	12.5' BC RADIUS	262+44.17	30.00' R
1506	2' BC RADIUS	262+54.59	28.71' R
1507	15' EOM RADIUS	263+04.16	32.74' R

GRADING TABLE				
POINT	ELEVATION	DESCRIPTION	STATION	OFFSET
634	CB=625.79		262+41.40	28.62' R
635	TC=625.95	DD	262+42.39	30.69' R
636	TC=626.75		262+43.39	30.69' R
637	RO=627.42	TC, TP, PC	262+44.17	17.50' R
638	TP=627.30		262+44.17	25.50' R
639	TC=626.92	PC	262+54.59	30.71' R
640	RO=626.76	TC, TP	262+55.83	25.50' R
641	TC=627.10		262+56.15	26.45' R
642	TC=627.01	PC	262+56.58	28.47' R
643	TP=626.39	ME	262+59.16	33.39' R
644	TP=627.43		262+63.31	15.00' R
645	TP=626.47	PC	262+89.16	32.74' R
646	TP=626.43	ME	262+89.16	33.52' R
647	TP=626.58		262+89.29	30.80' R
648	TP=626.43		263+04.29	33.76' R
649	TP=627.23	PC	263+04.95	17.77' R



PLAN SUBMITTALS AND CHANGES		REV:
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3/19/21	ISSUED FOR BIDS	

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**MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION**

PREPARED FOR: **MIDLAND COUNTY ROAD COMMISSION**

PROJECT MGR: MJS
REVIEWER: TCL
SCALE: 1"=10'

PLAN DATE: MARCH 2021

DETAIL GRADING SHEET

SHT# 17 OF 72
JOB No: 20M0019

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200+05 48.5' SECTION CORNER 209

200+56 67.0' GATE VALVE
 200+56 67.4' GATE VALVE
 200+61 64.4' GATE VALVE
 200+64 73.0' FIRE HYDRANT

202+67 51.8' 12" METAL PIPE (CMP)
 202+69 23.3' MAIL BOX (REL)
 202+74 54.4' LANDSCAPING

203+15 47.4' 12" METAL PIPE (CMP)
 203+19 62.8' 14" SPRUCE
 203+30 58.1' 10" SPRUCE
 203+42 59.2' 8" SPRUCE
 203+48 52.4' GATE VALVE

203+58 67.8' 24" WHITE OAK
 203+71 98.4' WOOD BUILDING
 203+77 65.0' 18" SPRUCE
 203+85 46.3' BRUSH AREA
 203+94 47.8' TELE RISER
 203+95 46.5' ELEC POLE

204+67 38.4' 12" METAL PIPE (CMP)
 204+72 69.6' BRUSH AREA

205+11 19.3' MAIL BOX (REL)
 205+15 35.6' 12" METAL PIPE (CMP)

206+00 32.8' 12" METAL PIPE (CMP) (REL)

206+11 39.5' FIRE HYDRANT
 206+11 41.4' MISC POST
 206+17 27.5' GUY WIRE (REL-B/O)
 206+18 39.4' ELEC POLE
 206+23 32.1' 12" METAL PIPE (CMP) (REL)
 206+34 63.2' LANDSCAPING
 206+36 38.0' IRON PIPE
 206+39 58.9' 18" WHITE OAK
 206+41 62.9' 20" WHITE OAK
 206+41 72.3' WOOD BUILDING

206+63 77.4' WOOD BUILDING

206+96 37.4' GATE VALVE
 206+99 75.3' WOOD BUILDING

PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

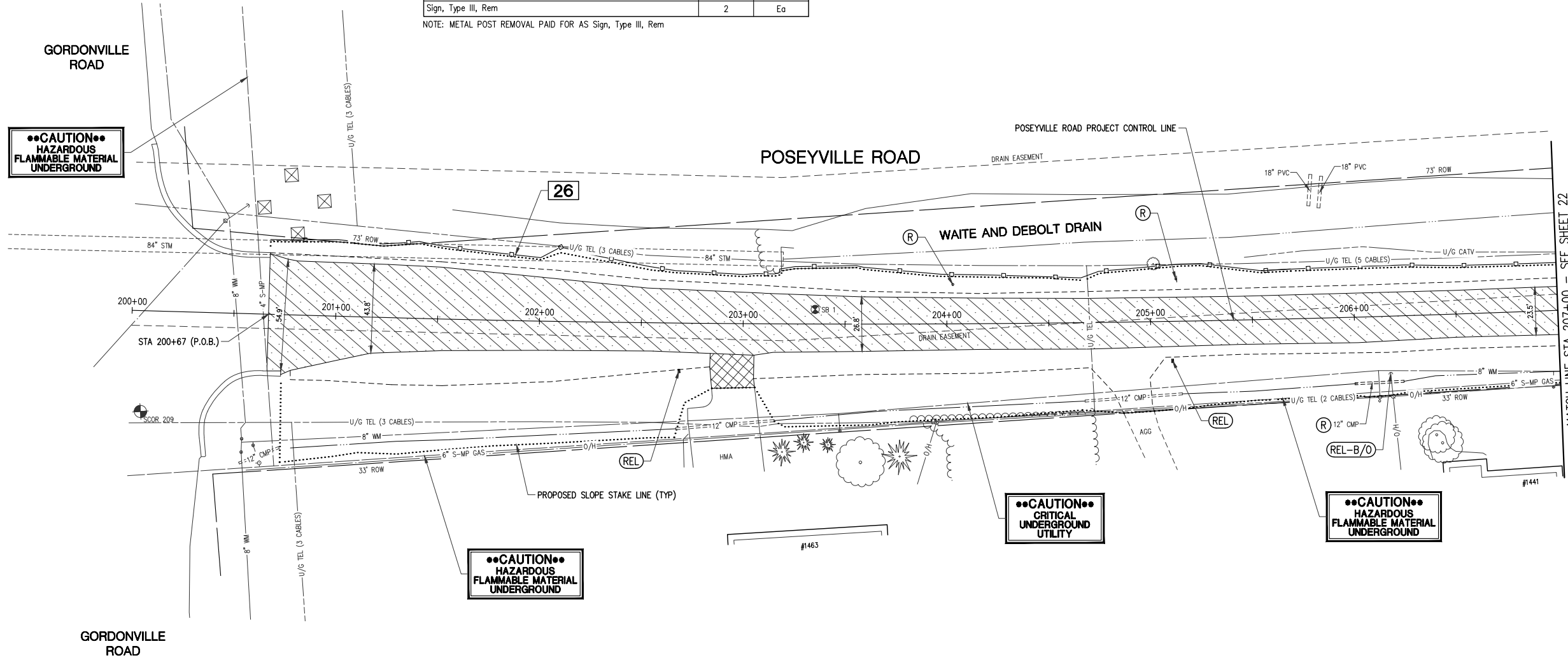


REV:

SHT# 19 of 72
 JOB No: 20M0019

SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Culv, Rem, Less than 24 inch	1	Ea
Erosion Control, Silt Fence	636	Ft
Cold Milling HMA Surface	2117	Syd
HMA Surface, Rem	40	Syd
Post, Mailbox	2	Ea
Sign, Type III, Rem	2	Ea

NOTE: METAL POST REMOVAL PAID FOR AS Sign, Type III, Rem



HAZARDOUS FLAMMABLE MATERIAL UNDERGROUND

HAZARDOUS FLAMMABLE MATERIAL UNDERGROUND

CAUTION CRITICAL UNDERGROUND UTILITY

HAZARDOUS FLAMMABLE MATERIAL UNDERGROUND

200+44 45.2' GUY POLE
 200+56 53.5' GUY WIRE

201+56 53.7' PLANTED AREA

202+09 48.3' PLANTED AREA

202+56 46.5' PLANTED AREA

203+07 46.4' PLANTED AREA
 203+10 28.6' BRUSH AREA
 203+18 37.6' RETAINING WALL
 203+19 36.1' RETAINING WALL
 203+20 31.6' 84\"/>

203+56 27.7' RETAINING WALL
 203+60 56.7' PLANTED AREA

204+03 19.3' METAL POST (REL)

204+12 63.8' PLANTED AREA

204+65 62.8' PLANTED AREA

205+02 28.4' 6\"/>

205+13 20.7' MISC SIGN (REL)

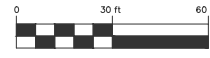
205+39 61.8' PLANTED AREA

205+79 55.3' 18\"/>

205+86 69.5' 18\"/>

205+96 65.6' PLANTED AREA

206+46 67.3' PLANTED AREA



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2021 POSEYVILLE ROAD REHABILITATION
 STA 200+67 (P.O.B.) TO STA 207+00
 REMOVAL SHEET

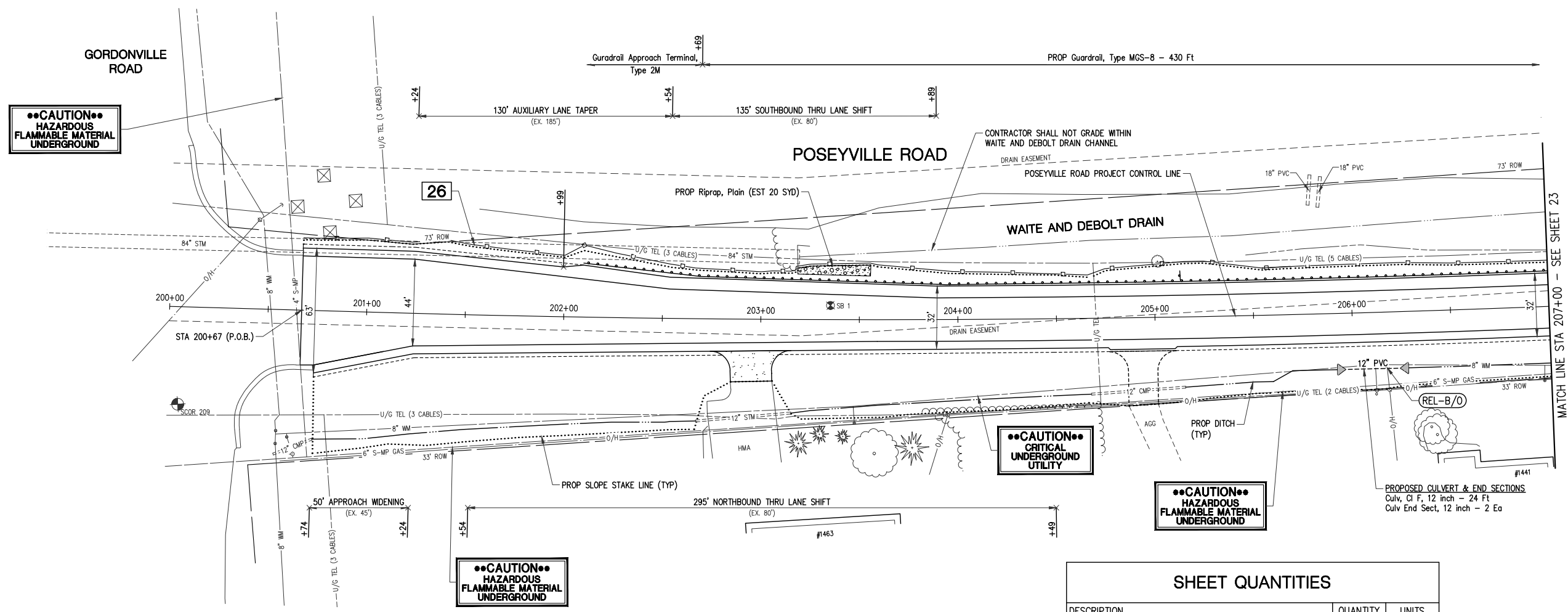
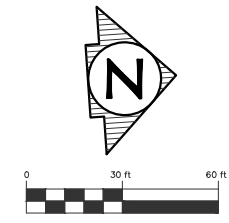


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PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: 1" = 30'

DRIVEWAY SCHEDULE								
C/L DRIVEWAY STATION	PROP PMVT TYPE	DRIVEWAY OFFSET REMOVAL LIMITS (FT)	WIDTH AT REMOVAL LIMITS (FT)	WIDTH AT OPENING (FT)	LENGTH OF DRIVE RESTORATION (FT)	Approach, Cl I, 6 inch, Modified (Syd)	Approach, Cl II, 6 inch, Modified (Syd)	HMA Approach (Ton)
202+95, RT	HMA	31.5	21.0	41.0	15.5	41	0	8
204+94, RT	G	44.3	15.0	35.0	27.3	0	51	0

G = GRAVEL DRIVE, HMA = HMA DRIVE
 NOTE: Culv, Cl F, _ inch VALUE INDICATES PAY LENGTH, PROFILE INDICATES ACTUAL LENGTH.



CAUTION
 HAZARDOUS
 FLAMMABLE MATERIAL
 UNDERGROUND

CAUTION
 CRITICAL
 UNDERGROUND
 UTILITY

CAUTION
 HAZARDOUS
 FLAMMABLE MATERIAL
 UNDERGROUND

CAUTION
 HAZARDOUS
 FLAMMABLE MATERIAL
 UNDERGROUND

SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Subbase, CIP	314	Cyd
Approach, Cl II, 6 inch, Modified	51	Syd
Shoulder, Cl II, 3 inch, Modified	110	Syd
Approach, Cl I, 6 inch, Modified	41	Syd
Aggregate Base, 6 inch, Modified	786	Syd
Culv End Sect, 12 inch	2	Ea
Culv, Cl F, 12 inch	24	Ft
Underdrain, Subbase, 6 inch	382	Ft
Underdrain Outlet, 6 inch	30	Ft
Underdrain, Outlet Ending, 6 inch	2	Ea
HMA Approach	8	Ton
HMA, LVSP	297	Ton
Guardrail, Type MGS-8	430	Ft
Guardrail Approach Terminal, Type 2M	1	Ea
Guardrail Reflector	14	Ea
Riprap, Plain	20	Syd
Turf Reinforcement Mat, Permanent	257	Syd



PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS	
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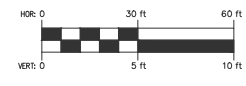
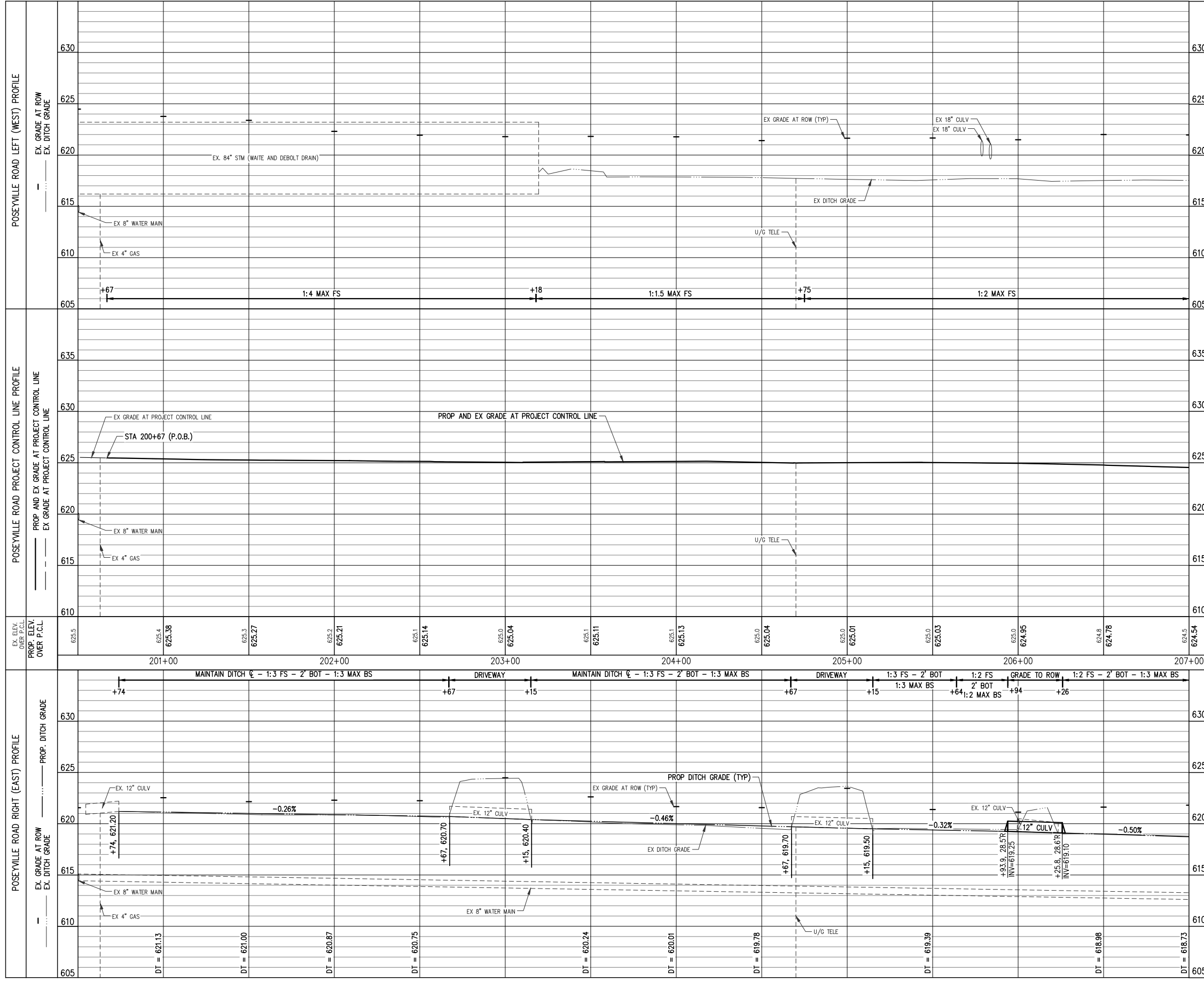
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PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STA 200+67 (P.O.B.) TO STA 207+00
 CONSTRUCTION SHEET

REV: _____
 SHT# 20 OF 72
 JOB No: 20M0019

Plotted: 3/20/21 1:14 PM R:\Projects\20M0019\Orig\Construction Drawings\SP-20M0019-RPCL.dwg



811
Know what's below.
Call before you dig.

PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV: _____
SHT# **21** OF **72**
JOB No: 20M0019

PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
STA 200+67 (P.O.B.) TO STA 207+00
PROFILE SHEET

ROWE PROFESSIONAL SERVICES COMPANY
127 S. Main Street
Mt. Pleasant, MI 48858

PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: HORZ: 1"=30', VERT: 1"=5'

PL02ED: 3/20/2021 1:15 PM
E:\Projects\20M0019\Drawings\SP-20M0019-RP1.dwg

207+11 64.0L PLANTED AREA

207+41 63.6L PLANTED AREA
 207+43 51.4L 8" METAL PIPE (CMP)
 207+72 29.6L 38" METAL PIPE (CMP)
 207+72 33.7L 12" PLASTIC PIPE (PVC)
 207+72 33.7L 6" PLASTIC PIPE (PVC)
 207+72 33.0L 18" PLASTIC PIPE (PVC)

208+10 40.1L PLANTED AREA
 208+12 9.8L SOIL BORING

208+57 26.5L PLANTED AREA

209+06 24.8L PLANTED AREA

209+60 23.5L PLANTED AREA

210+09 24.8L PLANTED AREA

REM 210+50 17.3L MISC SIGN
 210+60 24.6L PLANTED AREA

REL-B/O 211+03 28.2L PLANTED AREA
 211+06 28.3L TELE RISER
 211+06 29.6L GUY POLE
 211+08 61.3L PLANTED AREA

211+20 61.1L 20" WHITE OAK
 211+21 68.8L 12" WHITE OAK

REM 211+78 16.6L MISC POST

212+19 51.5L 30" DECID. TREE
 212+20 34.0L 18" DECID. TREE
 212+26 29.4L TELE RISER
 212+26 30.7L ELEC POLE
 212+32 33.0L 30" DECID. TREE
 212+40 74.9L WOOD BUILDING

212+80 73.8L WOOD BUILDING

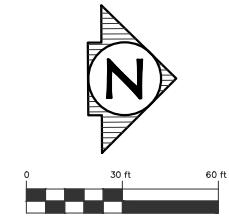
213+16 32.9L IRON PIPE
 213+19 43.2L 14" DECID. TREE

213+44 78.5L WOOD BUILDING

REM 213+77 79.1L WOOD BUILDING
 213+78 19.5L MISC SIGN

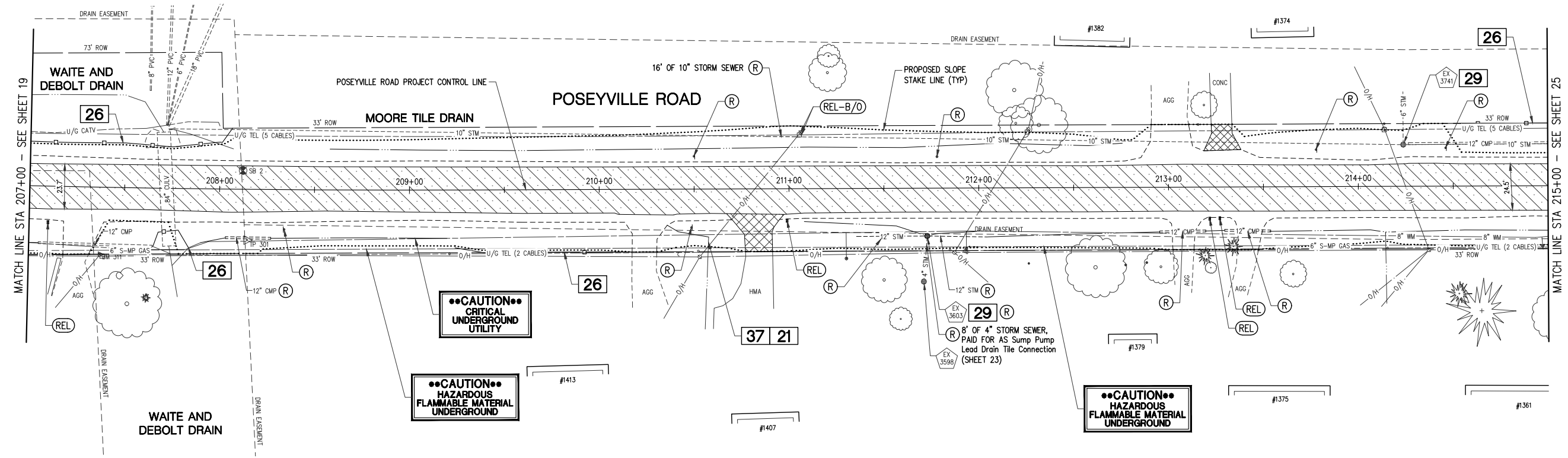
214+14 29.9L TELE RISER
 214+14 33.0L ELEC POLE
 214+14 33.0L ELEC POLE
 214+24 21.9L ROUND CB
 214+26 22.4L 12" METAL PIPE (CMP)

REM 214+46 20.1L SPEED LIMIT SIGN



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Culv, Rem, Less than 24 inch	3	Ea
Dr Structure, Rem	1	Ea
Sewer, Rem, Less than 24 inch	94	Ft
Pavt, Rem	21	Syd
Erosion Control, Inlet Protection, Fabric Drop	2	Ea
Erosion Control, Silt Fence	292	Ft
Cold Milling HMA Surface	2163	Syd
HMA Surface, Rem	41	Syd
Post, Mailbox	4	Ea
Sign, Type III, Rem	5	Ea
Sign, Type V, Rem	1	Ea

NOTE: METAL POST REMOVAL PAID FOR AS Sign, Type III, Rem



EXISTING STRUCTURES

MH# 3598
 TYPE: STORM
 COVER: FLAT GRATE
 RIM= 622.28
 4.0\"/>

MH# 3741
 TYPE: STORM
 COVER: FLAT GRATE
 RIM= 624.29
 10.0\"/>

MH# 3603
 TYPE: STORM
 COVER: FLAT GRATE
 RIM= 623.01
 12.0\"/>

207+05 29.9R 12\"/>

207+37 35.3R RM 311
 207+38 35.5R ELEC POLE
 207+39 35.3R TELE RISER
 207+46 46.4R LANDSCAPING
 207+50 46.3R LANDSCAPING
 207+52 61.1R 36\"/>

207+62 57.8R 4\"/>

REM 208+02 25.6R 12\"/>

208+15 26.8R TP 301

REM 208+27 25.7R 12\"/>

REM 208+34 21.0R MISC SIGN

209+21 33.7R IRON ROD

209+62 34.2R WOOD BUILDING

210+04 92.2R WOOD BUILDING

REM 210+41 34.2R GUY WIRE
 210+49 20.2R MISC SIGN
 210+52 32.6R IRON PIPE
 210+53 35.7R ELEC POLE

REM 210+99 16.8R MAIL BOX

211+30 36.9R WATER STOP BOX

211+50 48.2R 24\"/>

211+59 68.9R 12\"/>

211+71 49.2R ROUND CB

REM 211+72 25.2R ROUND CB

211+85 32.6R IRON PIPE

211+87 34.0R ELEC POLE

211+88 32.6R ONE W/IRONT

211+93 32.6R ONE W/IRONT

211+94 34.2R MISC SIGN

REM 212+04 26.6R 12\"/>

212+26 39.8R 1\"/>

212+61 42.0R 32\"/>

212+68 77.5R WOOD BUILDING

212+77 40.9R DECID. SHRUB

212+88 39.7R DECID. SHRUB

212+94 77.2R WOOD BUILDING

212+98 41.9R 18\"/>

REM 212+95 23.0R 12\"/>

REM 213+18 21.1R 12\"/>

REM 213+18 36.1R 10\"/>

213+22 42.5R 6\"/>

REM 213+22 16.7R MAIL BOX

REM 213+27 16.5R MAIL BOX

REM 213+30 22.8R 12\"/>

REM 213+34 31.3R 10\"/>

REM 213+54 23.3R 12\"/>

213+65 45.9R 14\"/>

214+15 32.5R IRON PIPE

214+37 33.5R ELEC POLE
 214+53 56.6R 14\"/>

PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV:

SHT# 22 of 72
 JOB No: 20M0019

PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STA 207+00 TO STA 215+00
 REMOVAL SHEET



ROWE PROFESSIONAL SERVICES COMPANY
 O: (989) 772-2138
 F: (989) 773-7757
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 127 S. Main Street
 Mt. Pleasant, MI 48858

PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: 1" = 30'

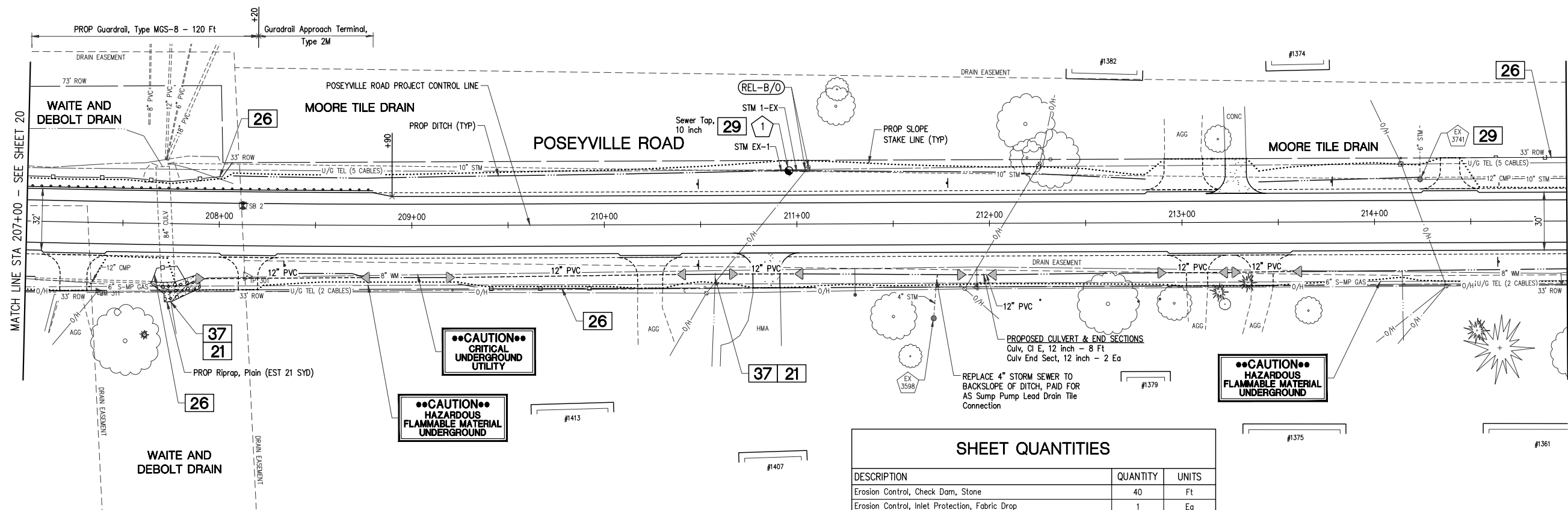
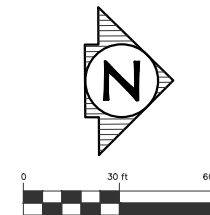


DRIVEWAY SCHEDULE										
C/L DRIVEWAY STATION	PROP PWMT TYPE	DRIVEWAY OFFSET REMOVAL LIMITS (FT)	WIDTH AT REMOVAL LIMITS (FT)	WIDTH AT OPENING (FT)	LENGTH OF DRIVE RESTORATION (FT)	Approach, Cl I, 6 inch, Modified (Syd)	Approach, Cl II, 6 inch, Modified (Syd)	HMA Approach (Ton)	Culv, Cl F, 12 inch (Ft)	Culv End Sect, 12 inch (Ea)
207+25, RT	G	35.5	14.0	34.0	18.5	0	34	0	0	0
208+12, RT	G	33.8	10.0	30.0	16.8	0	24	0	78	2
210+24, RT	G	33.0	13.0	32.0	16.0	0	28	0	112	2
210+84, RT	HMA	33.0	14.0	34.0	18.0	33	0	6	26	2
213+01, LT	G	33.0	20.0	40.0	16.0	0	41	0	0	0
213+08, RT	G	33.0	11.0	31.0	16.0	0	25	0	24	2
213+30, LT	HMA	33.0	11.0	31.0	18.0	27	0	5	0	0
213+42, RT	G	33.0	11.0	31.0	16.0	0	25	0	24	2
214+39, LT	G	33.0	10.0	30.0	16.0	0	23	0	0	0

G = GRAVEL DRIVE, HMA = HMA DRIVE
 NOTE: Culv, Cl F, _ inch VALUE INDICATES PAY LENGTH, PROFILE INDICATES ACTUAL LENGTH.

PROPOSED STORM SEWER STRUCTURE TABLE						
STRUCT NO.	DIA.	COVER TYPE	RIM ELEVATION	INVERT	STATION	OFFSET
1	48"	G	RIM=620.54	10" 617.64 N (PR) 10" 617.64 S (PR)	210+96.0	27.7 L

PROPOSED STORM SEWER PIPE TABLE						
PIPE NUMBER	DIAMETER	PAY ITEM	TOTAL LENGTH	SLOPE	TRENCH DETAIL A (T.D. A)	TRENCH DETAIL B (T.D. B)
STM 1-EX	10"	Sewer, Cl A, _ inch, Tr Det _	8'	0.29%	8'	0'
STM EX-1	10"	Sewer, Cl A, _ inch, Tr Det _	8'	0.29%	8'	0'



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Erosion Control, Check Dam, Stone	40	Ft
Erosion Control, Inlet Protection, Fabric Drop	1	Ea
Erosion Control, Sediment Basin	16	Cyd
Subbase, CIP	339	Cyd
Aggregate Base, 6 inch, Modified	821	Syd
Approach, Cl II, 6 inch, Modified	200	Syd
Shoulder, Cl II, 3 inch, Modified	307	Syd
Approach, Cl I, 6 inch, Modified	60	Syd
Culv End Sect, 12 inch	12	Ea
Culv, Cl E, 12 inch	8	Ft
Culv, Cl F, 12 inch	264	Ft
Sewer, Cl A, 10 inch, Tr Det A	16	Ft
Sewer Tap, 10 inch	1	Ea
Dr Structure Cover, Type G	1	Ea
Dr Structure, 48 inch dia	1	Ea
HMA Approach	11	Ton
HMA, LVSP	300	Ton
Guardrail, Type MGS-8	120	Ft
Guardrail Approach Terminal, Type 2M	1	Ea
Guardrail Reflector	4	Ea
Riprap, Plain	21	Syd

PLAN SUBMITTALS AND CHANGES		REV:
BIDDING DOCUMENTS		
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PLAN DATE: MARCH 2021
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 SCALE: 1" = 30'

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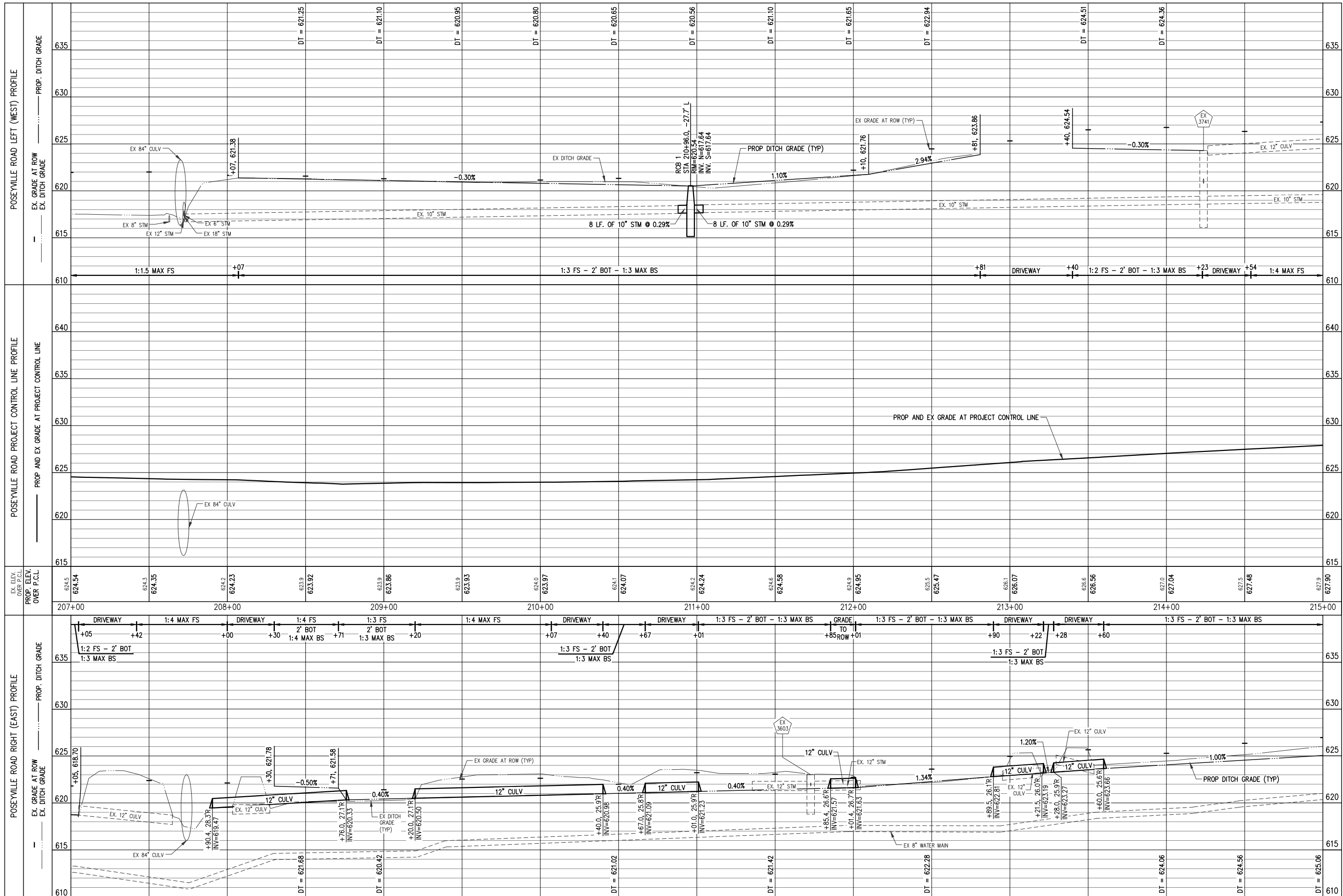
127 S. Main Street
 Mt. Pleasant, MI 48858

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2021 POSEYVILLE ROAD REHABILITATION
 STA 207+00 TO STA 215+00
 CONSTRUCTION SHEET

STA 207+00 TO STA 215+00
 CONSTRUCTION SHEET

811
 Know what's below.
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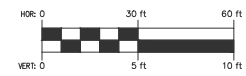
SHT# 23 OF 72
 JOB No: 20M0019



PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: HORZ: 1"=30', VERT: 1"=5'

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MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STA 207+00 TO STA 215+00
 PROFILE SHEET



PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV: _____
 SHT# 24 OF 72
 JOB No: 20M0019

215+13 3.6x1.1' DECID. SHRUB
 215+18 54.1' 36" DECID. TREE
 215+21 33.5' GATE VALVE
 215+23 78.6' WOOD BUILDING
 215+40 47.1' 26" DECID. TREE

216+83 49.0' 14" DECID. TREE
 216+90 78.3' WOOD BUILDING

216+18 58.3' HEAVY WOODS
 216+27 23.1' 12" PLASTIC PIPE
 216+29 30.9' TELE RISER
 216+30 33.0' IRON ROD
 216+33 28.5' HEAVY WOODS

216+62 75.7' WOOD BUILDING

216+92 75.0' WOOD BUILDING
 216+99 29.9' LANDSCAPING
 217+00 30.1' WOOD BUILDING
 217+03 30.2' LANDSCAPING

217+30 30.7' ELEC POLE
 217+30 32.6' ELEC POLE
 217+30 30.7' TELE RISER
 217+31 33.0' IRON PIPE
 217+36 22.6' ROUND CB
 217+60 74.7' WOOD BUILDING

REL-B/O 217+67 32.9' WATER STOP BOX
 217+68 27.5' METAL POST

217+97 74.1' WOOD BUILDING
 218+03 31.6' LANDSCAPING
 218+11 37.7' LANDSCAPING
 218+15 33.0' TP BOX

219+45 31.1' TELE RISER
 219+51 29.9' MISC SIGN

220+09 53.0' LANDSCAPING
 220+11 51.4' WOOD POST
 220+11 46.8' ADVERTISING SIGN
 220+12 42.2' WOOD POST
 220+14 40.9' LANDSCAPING

220+77 80.3' BRICK BUILDING
 221+02 38.8' TELE RISER

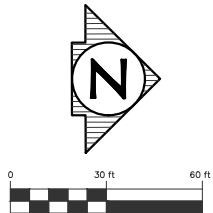
221+32 43.1' 8" DECID. SHRUB

REL 221+40 80.7' BRICK BUILDING
 REM 221+43 32.9' WOOD SIGN
 221+43 32.9' MONUMENT

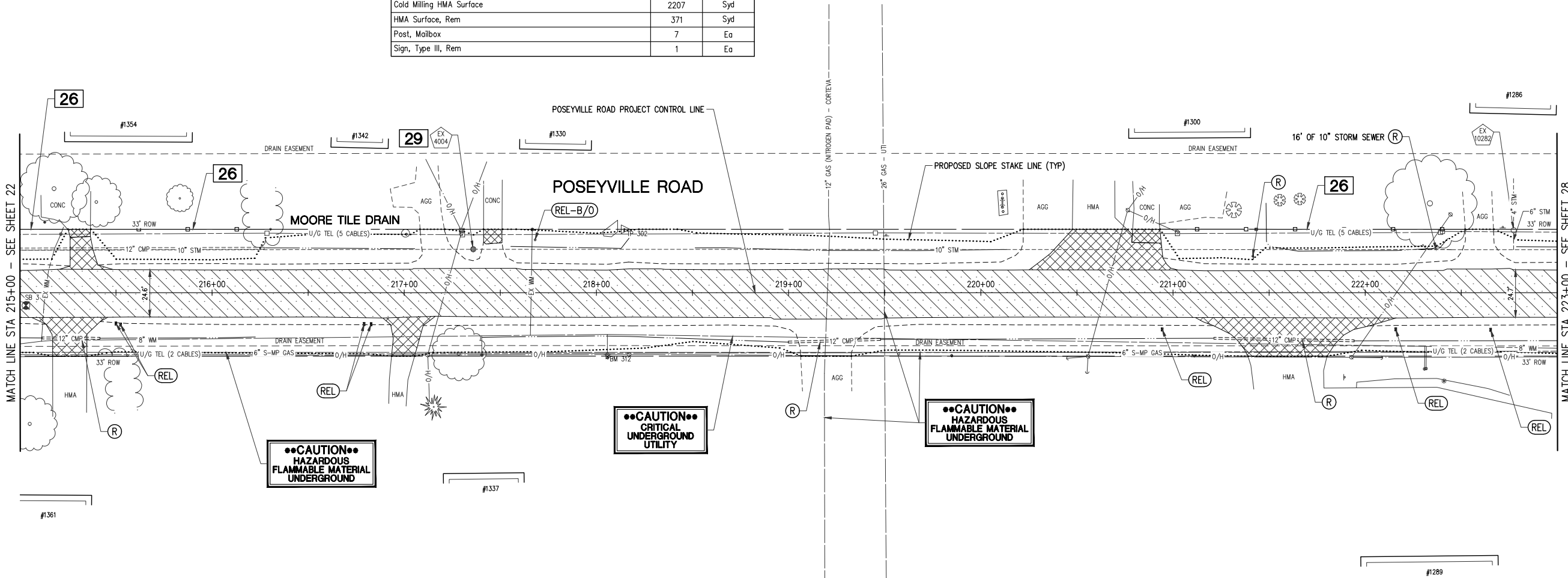
221+56 48.1' 6" DECID. SHRUB
 221+66 48.7' 6" DECID. SHRUB

222+34 46.4' 48" MAPLE
 222+39 31.4' TELE RISER
 222+40 31.0' TELE RISER
 222+41 40.0' ELEC POLE
 222+54 93.5' WOOD BUILDING

222+72 34.1' MISC SIGN
 222+77 32.4' STORM MH
 222+99 92.4' WOOD BUILDING



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Culv, Rem, Less than 24 inch	3	Ea
Sewer, Rem, Less than 24 inch	16	Ft
Pavt, Rem	25	Syd
Erosion Control, Inlet Protection, Fabric Drop	1	Ea
Erosion Control, Silt Fence	278	Ft
Cold Milling HMA Surface	2207	Syd
HMA Surface, Rem	371	Syd
Post, Mailbox	7	Ea
Sign, Type III, Rem	1	Ea



EXISTING STRUCTURES

Mh# 4004 TYPE: STORM COVER: FLAT GRATE RIM= 626.04 10.0" RCP N INV.=619.34 10.0" RCP S INV.=619.34	Mh# 10282 TYPE: STORM COVER: SOLID RIM= 627.59 6.0" VCP E INV.=620.79 4.0" PVC W INV.=625.29
---	---

215+03 6.6R SOIL BORING
 215+05 68.2R 28" DECID. TREE
 215+11 23.3R 12" METAL PIPE (CMP) REL
 215+42 23.7R 12" METAL PIPE (CMP) REL
 215+47 32.7R HEAVY WOODS
 215+50 16.0R MAIL BOX REL
 215+52 16.6R MAIL BOX REL
 215+58 32.8R ROAD SPINE
 215+61 61.0R HEAVY WOODS

216+99 16.3R MAIL BOX REL
 216+99 16.4R MAIL BOX REL
 217+12 32.4R ELEC POLE
 217+15 59.4R 14" CONIFEROUS TREE
 217+20 94.1R BRICK BUILDING
 217+26 31.6R 26" DECID. TREE
 217+40 32.4R WATER STOP BOX

217+62 93.7R BRICK BUILDING
 218+06 32.2R FIRE HYDRANT
 218+06 33.1R BM 312
 218+06 33.9R MISC POST
 218+17 32.1R ELEC POLE

219+40 26.7R 12" METAL PIPE (CMP) REL
 219+45 24.3R 12" METAL PIPE (CMP) REL
 219+57 31.6R FIBER OPTIC MARKER POST

219+85 32.7R METAL POST
 219+85 33.0R IRON ROD
 220+45 34.1R GUY WIRE
 220+45 42.0R GUY WIRE
 220+59 33.2R ELEC POLE

220+84 19.1R MAIL BOX REL
 221+11 32.9R IRON ROD
 221+11 32.9R IRON PIPE
 221+21 23.7R 12" METAL PIPE (CMP) REL

221+89 44.0R MISC SIGN
 221+93 33.6R ELEC POLE
 221+94 25.0R 12" METAL PIPE (CMP) REL
 221+95 48.4R LANDSCAPING
 222+09 33.9R GUY WIRE

222+16 19.0R MAIL BOX REL
 222+31 38.0R SPRINKLER VALVE
 222+32 39.5R SPRINKLER VALVE
 222+41 45.9R METAL LIGHT POLE
 222+65 19.3R MAIL BOX REL
 222+75 53.3R LANDSCAPING

PLAN SUBMITTALS AND CHANGES	
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PLAN DATE: MARCH 2021
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PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STA 215+00 TO STA 223+00
 REMOVAL SHEET

REV: _____
 SHT# 25 of 72
 JOB No: 20M0019

DRIVEWAY SCHEDULE										
C/L DRIVEWAY STATION	PROP PWMT TYPE	DRIVEWAY OFFSET REMOVAL LIMITS (FT)	WIDTH AT REMOVAL LIMITS (FT)	WIDTH AT OPENING (FT)	LENGTH OF DRIVE RESTORATION (FT)	Approach, Cl I, 6 inch, Modified (Syd)	Approach, Cl II, 6 inch, Modified (Syd)	HMA Approach (Ton)	Culv, Cl F, 12 inch (Ft)	Culv End Sect, 12 inch (Ea)
215+26, RT	HMA	33.0	18.0	38.0	18.0	41	0	8	32	2
215+32, LT	HMA	33.0	12.0	32.0	18.0	29	0	6	0	0
216+99, RT	HMA	33.0	12.0	32.0	18.0	29	0	6	32	2
217+15, LT	G	33.0	13.0	33.0	16.0	0	28	0	0	0
217+48, LT	C	33.0	10.0	30.0	18.0	25	0	5	0	0
218+32, LT	G	33.0	20.0	40.0	16.0	0	41	0	32	2
219+20, RT	G	33.0	26.0	46.0	16.0	0	51	0	0	0
220+54, LT	HMA	33.0	71.0	99.0	18.0	153	0	28	0	0
221+62, RT	HMA	33.0	41.0	77.0	18.0	98	0	18	72	2
222+59, LT	G	33.0	15.0	35.0	16.0	0	32	0	0	0

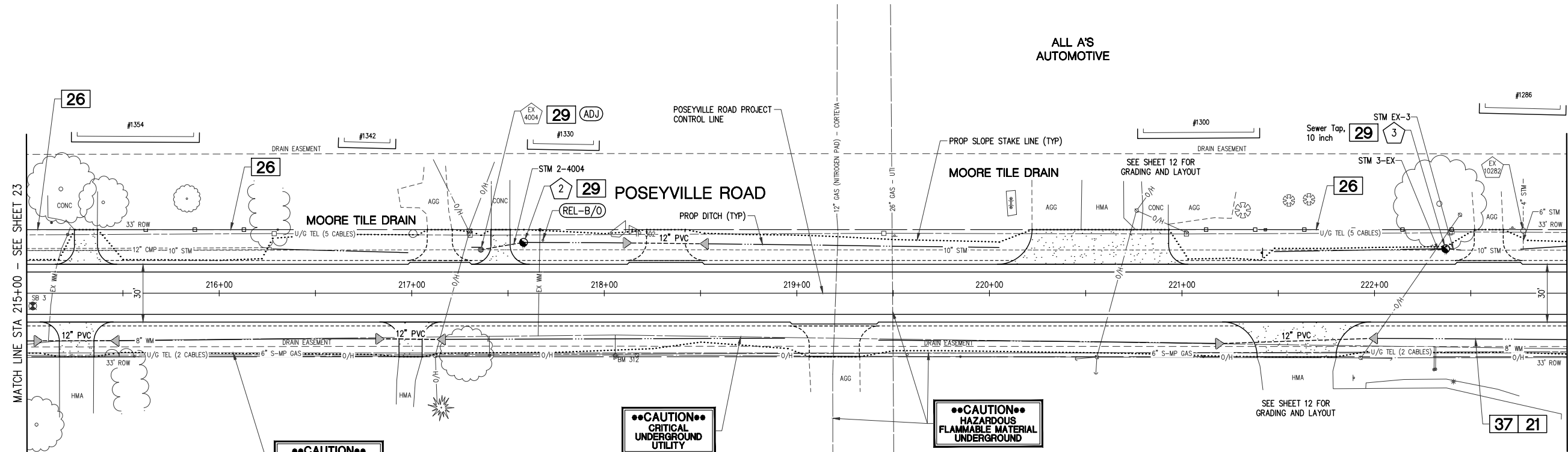
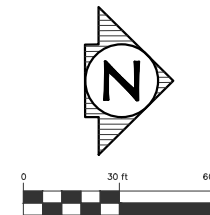
G = GRAVEL DRIVE, HMA = HMA DRIVE

NOTE: Culv, Cl F, _ inch VALUE INDICATES PAY LENGTH, PROFILE INDICATES ACTUAL LENGTH.

PROPOSED STORM SEWER STRUCTURE TABLE						
STRUCT NO.	DIA.	COVER TYPE	RIM ELEVATION	INVERT	STATION	OFFSET
2	24"	G	RIM=626.11	12" 623.20 S (PR)	217+58.1	26.4 L
3	48"	G	RIM=626.91	10" 620.13 N (PR) 10" 620.13 S (PR)	222+37.0	23.1 L
EX 4004	N/A	N/A	RIM=626.94	12" 623.08 N (PR) 10" 619.34 N (EX) 10" 619.34 S (EX)	217+35.9	22.6 L

Dr Structure, Top, 12 inch (EX 4004)

PROPOSED STORM SEWER PIPE TABLE						
PIPE NUMBER	DIAMETER	PAY ITEM	TOTAL LENGTH	SLOPE	TRENCH DETAIL A (T.D. A)	TRENCH DETAIL B (T.D. B)
STM 2-4004	12"	Sewer, Cl A, _ inch, Tr Det _	23'	0.53%	0'	23'
STM 3-EX	10"	Sewer, Cl A, _ inch, Tr Det _	8'	0.16%	8'	0'
STM EX-3	10"	Sewer, Cl A, _ inch, Tr Det _	8'	0.16%	0'	8'



CAUTION CRITICAL UNDERGROUND UTILITY

CAUTION HAZARDOUS FLAMMABLE MATERIAL UNDERGROUND

CAUTION HAZARDOUS FLAMMABLE MATERIAL UNDERGROUND

SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Erosion Control, Check Dam, Stone	20	Ft
Erosion Control, Inlet Protection, Fabric Drop	2	Ea
Erosion Control, Sediment Basin	8	Cyd
Subbase, CIP	306	Cyd
Aggregate Base, 6 inch, Modified	721	Syd
Approach, Cl II, 6 inch, Modified	152	Syd
Shoulder, Cl II, 3 inch, Modified	306	Syd
Approach, Cl I, 6 inch, Modified	375	Syd
Culv End Sect, 12 inch	8	Ea
Culv, Cl F, 12 inch	168	Ft
Sewer, Cl A, 10 inch, Tr Det A	8	Ft
Sewer, Cl A, 10 inch, Tr Det B	8	Ft
Sewer, Cl A, 12 inch, Tr Det B	23	Ft
Sewer Tap, 10 inch	1	Ea
Dr Structure Cover, Adj, Case 2	1	Ea
Dr Structure Cover, Type G	2	Ea
Dr Structure, 24 inch dia	1	Ea
Dr Structure, 48 inch dia	1	Ea
Dr Structure, Add Depth of 48 inch dia, 8 foot to 15 foot	2	Ft
Dr Structure, Adj, Add Depth	1	Ft
Dr Structure, Tap, 12 inch	1	Ea
HMA Approach	71	Ton
HMA, LVSP	287	Ton

DOLLAR GENERAL



PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

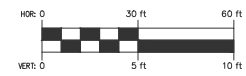
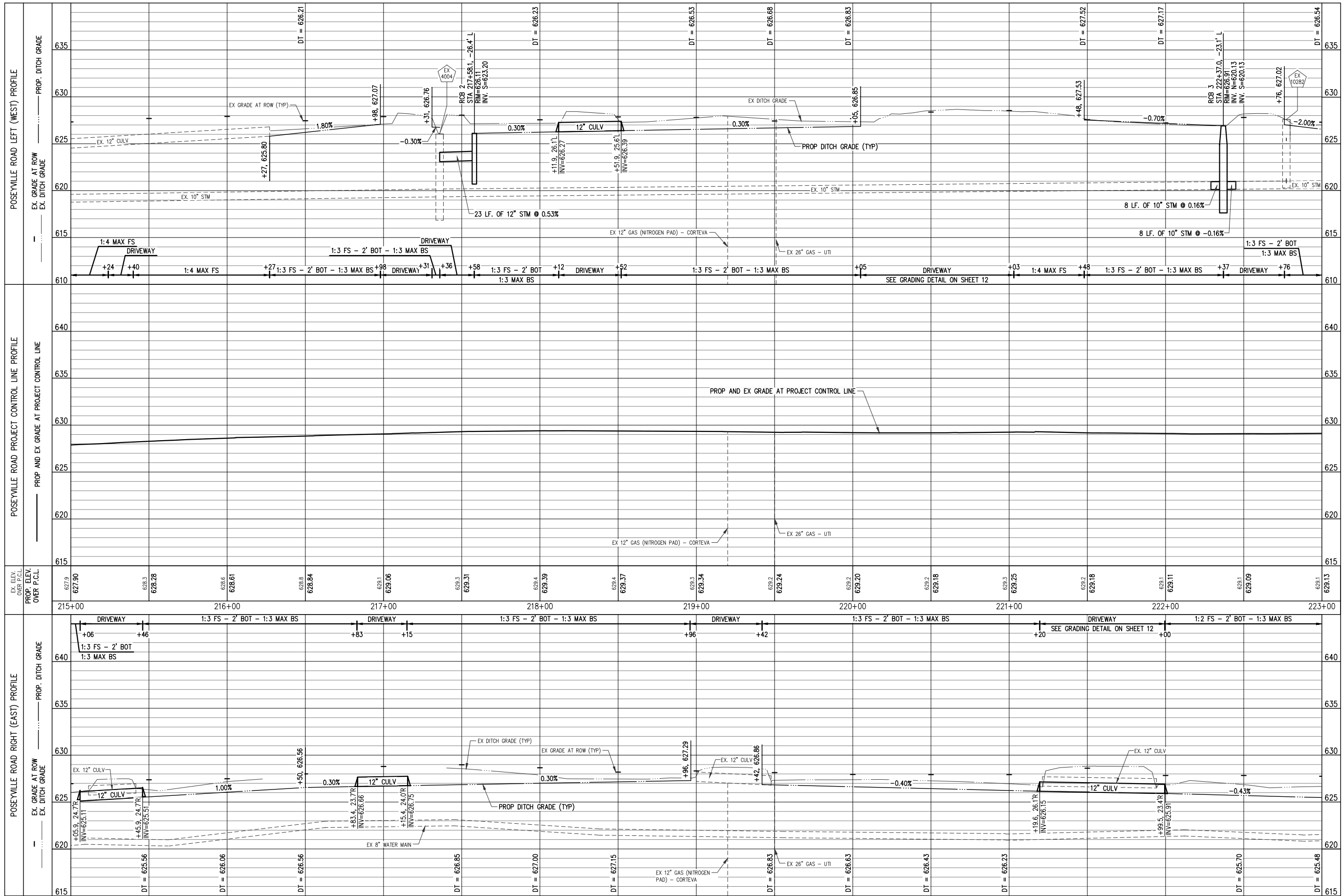
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MIDLAND COUNTY ROAD COMMISSION
 2021 POSEYVILLE ROAD REHABILITATION
 STA 215+00 TO STA 223+00
 CONSTRUCTION SHEET

REV: SHT# 26 OF 72
 JOB No: 20M0019

Plotted: 3/20/2021 1:17 PM R:\Projects\20M0019\Drawings\SP-20M0019-RPCL.dwg



PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

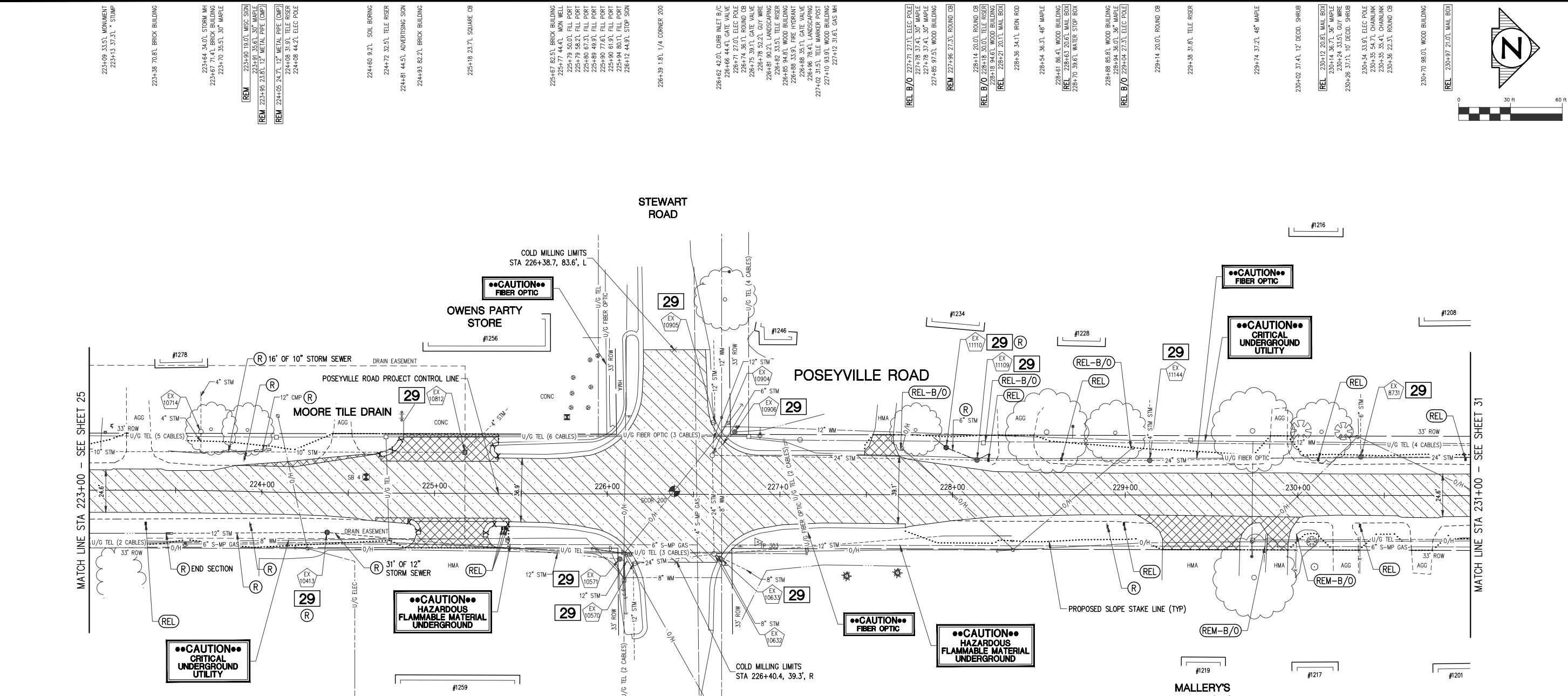
REV: _____
 SHT# 27 of 72
 JOB No: 20M0019

ROWE PROFESSIONAL SERVICES COMPANY

127 S. Main Street
Mt. Pleasant, MI 48858

PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: HORIZ: 1"=30', VERT: 1"=5'

MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STA 215+00 TO STA 223+00
 PROFILE SHEET



- EXISTING STRUCTURES**
- MH# 8731
TYPE: STORM
COVER: BEEHIVE
RIM= 626.07
6.0" CPP W INV.=625.07
24.0" SLC S INV.=619.52
24.0" SLC N INV.=619.47
 - MH# 10413
TYPE: STORM
COVER: FLAT GRATE
RIM= 626.73
12.0" CPP S INV.=624.93
12.0" CPP N INV.=624.93
 - MH# 10570
TYPE: STORM
COVER: CURB INLET
RIM= 627.33
12.0" SLC E INV.=623.43
12.0" CPP W INV.=623.43
24.0" SLC N INV.=623.33
 - MH# 10571
TYPE: STORM
COVER: FLAT GRATE
RIM= 626.30
12.0" CPP S INV.=623.20
12.0" CPP N INV.=623.20
 - MH# 10714
TYPE: STORM
COVER: SOLID
RIM= 628.30
4.0" VCP E INV.=621.30
4.0" VCP N INV.=621.30
 - MH# 10812
TYPE: STORM
COVER: FLAT GRATE
RIM= 627.58
4.0" VCP NW INV.=623.83
8.0" SLC NE INV.=624.54
24.0" SLC W INV.=620.99
8.0" SLC NE INV.=622.19
12.0" SLC N INV.=623.04
 - MH# 10632
TYPE: STORM
COVER: FLAT GRATE
RIM= 627.54
24.0" SLC S INV.=622.39
8.0" SLC NE INV.=624.54
24.0" SLC W INV.=620.99
8.0" SLC NE INV.=622.19
12.0" SLC N INV.=623.04
 - MH# 10633
TYPE: STORM
COVER: CURB INLET
RIM= 627.30
8.0" SLC SW INV.=625.20
 - MH# 10905
TYPE: STORM
COVER: CURB INLET
RIM= 627.37
12.0" SLC W INV.=623.17
12.0" SLC E INV.=623.12
 - MH# 10906
TYPE: STORM
COVER: BEEHIVE
RIM= 625.82
6.0" SLC SE INV.=624.72
 - MH# 11109
TYPE: STORM
COVER: BEEHIVE
RIM= 626.54
24.0" SLC S INV.=619.84
6.0" SLC SW INV.=625.24
24.0" SLC N INV.=619.79
 - MH# 11110
TYPE: STORM
COVER: BEEHIVE
RIM= 625.33
6.0" SLC NE INV.=625.13
 - MH# 11144
TYPE: STORM
COVER: BEEHIVE
RIM= 626.46
4.0" CPP W INV.=622.96
24.0" SLC S INV.=619.81
24.0" SLC N INV.=619.76

- 223+45 24.8R 12" RND METAL PIPE (CMP) REM
- 223+56 30.8R GATE VALVE
- 223+56 31.7R FINE HYDRANT
- 223+33 19.2R MAIL BOX REL
- 223+34 19.0R MISC SIGN REM
- 224+19 31.8R GUY WIRE
- 224+27 32.3R ELEC POLE
- 224+38 22.9R ROUND CB REM
- 224+74 28.6R TELE RISER
- 225+39 20.2R MAIL BOX REL
- 225+41 20.1R MAIL BOX REL
- 225+42 26.9R ELECTRIC RISER
- 225+42 20.3R MAIL BOX REL
- 225+61 31.6R GUY WIRE
- 225+63 32.9R GUY WIRE
- 226+01 31.5R HAND HOLE
- 226+02 33.8R TELE MARKER POST
- 226+07 37.6R ROUND CB
- 226+09 33.7R BM 313
- 226+09 56.0R GUY WIRE
- 226+10 34.3R ELEC POLE
- 226+10 58.6R GUY WIRE
- 226+10 49.9R TELE RISER
- 226+11 60.4R GUY WIRE
- 226+11 60.3R GUY WIRE
- 226+15 40.5R CURB INLET B/C
- 226+62 34.5R STORM MH
- 226+67 37.8R CURB INLET B/C
- 226+68 40.8R STOP SIGN
- 226+77 29.8R STREET SIGN
- 226+87 27.5R TP 303
- 227+15 32.6R HAND HOLE
- 227+15 34.4R TELE MARKER POST
- 227+39 47.2R 6" PINE
- 227+68 45.3R 6" PINE
- 227+95 23.8R 12" RND PLASTIC PIPE
- 228+25 32.5R GUY WIRE
- 228+35 26.7R IRON ROD
- 228+35 31.8R ELEC POLE
- 228+90 17.8R PARKING SIGN REM
- 228+99 16.8R MAIL BOX REL
- 229+33 93.6R WOOD BUILDING
- 229+58 93.8R WOOD BUILDING
- 229+73 26.9R ELEC POLE
- 229+73 35.3R WATER STOP BOX
- 229+74 47.7R 4" WIRE
- 229+74 47.7R 4" WIRE
- 229+80 38.7R BOARD FENCE
- 229+81 22.7R BOARD FENCE
- 229+97 96.6R WOOD BUILDING
- 229+99 47.8R BOARD FENCE REM-B/O
- 229+99 47.7R LANDSCAPING REM-B/O
- 229+99 22.7R BOARD FENCE REM-B/O
- 230+08 26.9R 6" DECID. SHRUB
- 230+10 41.4R 4" CRAB APPLE
- 230+12 22.8R LANDSCAPING REM-B/O
- 230+24 94.8R WOOD BUILDING
- 230+36 45.1R BOARD FENCE
- 230+36 17.5R MAIL BOX REL
- 230+78 97.4R WOOD BUILDING

- THE CREEK GRILL**
- MH# 10714
TYPE: STORM
COVER: SOLID
RIM= 628.30
4.0" VCP E INV.=621.30
4.0" VCP N INV.=621.30
 - MH# 10812
TYPE: STORM
COVER: FLAT GRATE
RIM= 627.58
4.0" VCP NW INV.=623.83
8.0" SLC NE INV.=624.54
24.0" SLC W INV.=620.99
8.0" SLC NE INV.=622.19
12.0" SLC N INV.=623.04
 - MH# 10906
TYPE: STORM
COVER: BEEHIVE
RIM= 625.82
6.0" SLC SE INV.=624.72
 - MH# 11109
TYPE: STORM
COVER: BEEHIVE
RIM= 626.54
24.0" SLC S INV.=619.84
6.0" SLC SW INV.=625.24
24.0" SLC N INV.=619.79
 - MH# 11110
TYPE: STORM
COVER: BEEHIVE
RIM= 625.33
6.0" SLC NE INV.=625.13
 - MH# 11144
TYPE: STORM
COVER: BEEHIVE
RIM= 626.46
4.0" CPP W INV.=622.96
24.0" SLC S INV.=619.81
24.0" SLC N INV.=619.76

- EXISTING STRUCTURES**
- MH# 8731
TYPE: STORM
COVER: BEEHIVE
RIM= 626.07
6.0" CPP W INV.=625.07
24.0" SLC S INV.=619.52
24.0" SLC N INV.=619.47
 - MH# 10413
TYPE: STORM
COVER: FLAT GRATE
RIM= 626.73
12.0" CPP S INV.=624.93
12.0" CPP N INV.=624.93
 - MH# 10570
TYPE: STORM
COVER: CURB INLET
RIM= 627.33
12.0" SLC E INV.=623.43
12.0" CPP W INV.=623.43
24.0" SLC N INV.=623.33
 - MH# 10571
TYPE: STORM
COVER: FLAT GRATE
RIM= 626.30
12.0" CPP S INV.=623.20
12.0" CPP N INV.=623.20
 - MH# 10714
TYPE: STORM
COVER: SOLID
RIM= 628.30
4.0" VCP E INV.=621.30
4.0" VCP N INV.=621.30
 - MH# 10812
TYPE: STORM
COVER: FLAT GRATE
RIM= 627.58
4.0" VCP NW INV.=623.83
8.0" SLC NE INV.=624.54
24.0" SLC W INV.=620.99
8.0" SLC NE INV.=622.19
12.0" SLC N INV.=623.04
 - MH# 10632
TYPE: STORM
COVER: FLAT GRATE
RIM= 627.54
24.0" SLC S INV.=622.39
8.0" SLC NE INV.=624.54
24.0" SLC W INV.=620.99
8.0" SLC NE INV.=622.19
12.0" SLC N INV.=623.04
 - MH# 10633
TYPE: STORM
COVER: CURB INLET
RIM= 627.30
8.0" SLC SW INV.=625.20
 - MH# 10905
TYPE: STORM
COVER: CURB INLET
RIM= 627.37
12.0" SLC W INV.=623.17
12.0" SLC E INV.=623.12
 - MH# 10906
TYPE: STORM
COVER: BEEHIVE
RIM= 625.82
6.0" SLC SE INV.=624.72
 - MH# 11109
TYPE: STORM
COVER: BEEHIVE
RIM= 626.54
24.0" SLC S INV.=619.84
6.0" SLC SW INV.=625.24
24.0" SLC N INV.=619.79
 - MH# 11110
TYPE: STORM
COVER: BEEHIVE
RIM= 625.33
6.0" SLC NE INV.=625.13
 - MH# 11144
TYPE: STORM
COVER: BEEHIVE
RIM= 626.46
4.0" CPP W INV.=622.96
24.0" SLC S INV.=619.81
24.0" SLC N INV.=619.76

- EXISTING STRUCTURES**
- MH# 8731
TYPE: STORM
COVER: BEEHIVE
RIM= 626.07
6.0" CPP W INV.=625.07
24.0" SLC S INV.=619.52
24.0" SLC N INV.=619.47
 - MH# 10413
TYPE: STORM
COVER: FLAT GRATE
RIM= 626.73
12.0" CPP S INV.=624.93
12.0" CPP N INV.=624.93
 - MH# 10570
TYPE: STORM
COVER: CURB INLET
RIM= 627.33
12.0" SLC E INV.=623.43
12.0" CPP W INV.=623.43
24.0" SLC N INV.=623.33
 - MH# 10571
TYPE: STORM
COVER: FLAT GRATE
RIM= 626.30
12.0" CPP S INV.=623.20
12.0" CPP N INV.=623.20
 - MH# 10714
TYPE: STORM
COVER: SOLID
RIM= 628.30
4.0" VCP E INV.=621.30
4.0" VCP N INV.=621.30
 - MH# 10812
TYPE: STORM
COVER: FLAT GRATE
RIM= 627.58
4.0" VCP NW INV.=623.83
8.0" SLC NE INV.=624.54
24.0" SLC W INV.=620.99
8.0" SLC NE INV.=622.19
12.0" SLC N INV.=623.04
 - MH# 10632
TYPE: STORM
COVER: FLAT GRATE
RIM= 627.54
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8.0" SLC NE INV.=624.54
24.0" SLC W INV.=620.99
8.0" SLC NE INV.=622.19
12.0" SLC N INV.=623.04
 - MH# 10633
TYPE: STORM
COVER: CURB INLET
RIM= 627.30
8.0" SLC SW INV.=625.20
 - MH# 10905
TYPE: STORM
COVER: CURB INLET
RIM= 627.37
12.0" SLC W INV.=623.17
12.0" SLC E INV.=623.12
 - MH# 10906
TYPE: STORM
COVER: BEEHIVE
RIM= 625.82
6.0" SLC SE INV.=624.72
 - MH# 11109
TYPE: STORM
COVER: BEEHIVE
RIM= 626.54
24.0" SLC S INV.=619.84
6.0" SLC SW INV.=625.24
24.0" SLC N INV.=619.79
 - MH# 11110
TYPE: STORM
COVER: BEEHIVE
RIM= 625.33
6.0" SLC NE INV.=625.13
 - MH# 11144
TYPE: STORM
COVER: BEEHIVE
RIM= 626.46
4.0" CPP W INV.=622.96
24.0" SLC S INV.=619.81
24.0" SLC N INV.=619.76

- EXISTING STRUCTURES**
- MH# 8731
TYPE: STORM
COVER: BEEHIVE
RIM= 626.07
6.0" CPP W INV.=625.07
24.0" SLC S INV.=619.52
24.0" SLC N INV.=619.47
 - MH# 10413
TYPE: STORM
COVER: FLAT GRATE
RIM= 626.73
12.0" CPP S INV.=624.93
12.0" CPP N INV.=624.93
 - MH# 10570
TYPE: STORM
COVER: CURB INLET
RIM= 627.33
12.0" SLC E INV.=623.43
12.0" CPP W INV.=623.43
24.0" SLC N INV.=623.33
 - MH# 10571
TYPE: STORM
COVER: FLAT GRATE
RIM= 626.30
12.0" CPP S INV.=623.20
12.0" CPP N INV.=623.20
 - MH# 10714
TYPE: STORM
COVER: SOLID
RIM= 628.30
4.0" VCP E INV.=621.30
4.0" VCP N INV.=621.30
 - MH# 10812
TYPE: STORM
COVER: FLAT GRATE
RIM= 627.58
4.0" VCP NW INV.=623.83
8.0" SLC NE INV.=624.54
24.0" SLC W INV.=620.99
8.0" SLC NE INV.=622.19
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 - MH# 10632
TYPE: STORM
COVER: FLAT GRATE
RIM= 627.54
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8.0" SLC NE INV.=622.19
12.0" SLC N INV.=623.04
 - MH# 10633
TYPE: STORM
COVER: CURB INLET
RIM= 627.30
8.0" SLC SW INV.=625.20
 - MH# 10905
TYPE: STORM
COVER: CURB INLET
RIM= 627.37
12.0" SLC W INV.=623.17
12.0" SLC E INV.=623.12
 - MH# 10906
TYPE: STORM
COVER: BEEHIVE
RIM= 625.82
6.0" SLC SE INV.=624.72
 - MH# 11109
TYPE: STORM
COVER: BEEHIVE
RIM= 626.54
24.0" SLC S INV.=619.84
6.0" SLC SW INV.=625.24
24.0" SLC N INV.=619.79
 - MH# 11110
TYPE: STORM
COVER: BEEHIVE
RIM= 625.33
6.0" SLC NE INV.=625.13
 - MH# 11144
TYPE: STORM
COVER: BEEHIVE
RIM= 626.46
4.0" CPP W INV.=622.96
24.0" SLC S INV.=619.81
24.0" SLC N INV.=619.76

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 - MH# 10413
TYPE: STORM
COVER: FLAT GRATE
RIM= 626.73
12.0" CPP S INV.=624.93
12.0" CPP N INV.=624.93
 - MH# 10570
TYPE: STORM
COVER: CURB INLET
RIM= 627.33
12.0" SLC E INV.=623.43
12.0" CPP W INV.=623.43
24.0" SLC N INV.=623.33
 - MH# 10571
TYPE: STORM
COVER: FLAT GRATE
RIM= 626.30
12.0" CPP S INV.=623.20
12.0" CPP N INV.=623.20
 - MH# 10714
TYPE: STORM
COVER: SOLID
RIM= 628.30
4.0" VCP E INV.=621.30
4.0" VCP N INV.=621.30
 - MH# 10812
TYPE: STORM
COVER: FLAT GRATE
RIM= 627.58
4.0" VCP NW INV.=623.83
8.0" SLC NE INV.=624.54
24.0" SLC W INV.=620.99
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TYPE: STORM
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 - MH# 10633
TYPE: STORM
COVER: CURB INLET
RIM= 627.30
8.0" SLC SW INV.=625.20
 - MH# 10905
TYPE: STORM
COVER: CURB INLET
RIM= 627.37
12.0" SLC W INV.=623.17
12.0" SLC E INV.=623.12
 - MH# 10906
TYPE: STORM
COVER: BEEHIVE
RIM= 625.82
6.0" SLC SE INV.=624.72
 - MH# 11109
TYPE: STORM
COVER: BEEHIVE
RIM= 626.54
24.0" SLC S INV.=619.84
6.0" SLC SW INV.=625.24
24.0" SLC N INV.=619.79
 - MH# 11110
TYPE: STORM
COVER: BEEHIVE
RIM= 625.33
6.0" SLC NE INV.=625.13
 - MH# 11144
TYPE: STORM
COVER: BEEHIVE
RIM= 626.46
4.0" CPP W INV.=622.96
24.0" SLC S INV.=619.81
24.0" SLC N INV.=619.76

- EXISTING STRUCTURES**
- MH# 8731
TYPE: STORM
COVER: BEEHIVE
RIM= 626.07
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 - MH# 10413
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 - MH# 10714
TYPE: STORM
COVER: SOLID
RIM= 628.30
4.0" VCP E INV.=621.30
4.0" VCP N INV.=621.30
 - MH# 10812
TYPE: STORM
COVER: FLAT GRATE
RIM= 627.58
4.0" VCP NW INV.=623.83
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 - MH# 10632
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 - MH# 10633
TYPE: STORM
COVER: CURB INLET
RIM= 627.30
8.0" SLC SW INV.=625.20
 - MH# 10905
TYPE: STORM
COVER: CURB INLET
RIM= 627.37
12.0" SLC W INV.=623.17
12.0" SLC E INV.=623.12
 - MH# 10906
TYPE: STORM
COVER: BEEHIVE
RIM= 625.82
6.0" SLC SE INV.=624.72
 - MH# 11109
TYPE: STORM
COVER: BEEHIVE
RIM= 626.54
24.0" SLC S INV.=619.84
6.0" SLC SW INV.=625.24
24.0" SLC N INV.=619.79
 - MH# 11110
TYPE: STORM
COVER: BEEHIVE
RIM= 625.33
6.0" SLC NE INV.=625.13
 - MH# 11144
TYPE: STORM
COVER: BEEHIVE
RIM= 626.46
4.0" CPP W INV.=622.96
24.0" SLC S INV.=619.81
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 - MH# 10413
TYPE: STORM
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 - MH# 10570
TYPE: STORM
COVER: CURB INLET
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 - MH# 10632
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RIM= 627.54
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12.0" SLC N INV.=623.04
 - MH# 10633
TYPE: STORM
COVER: CURB INLET
RIM= 627.30
8.0" SLC SW INV.=625.20
 - MH# 10905
TYPE: STORM
COVER: CURB INLET
RIM= 627.37
12.0" SLC W INV.=623.17
12.0" SLC E INV.=623.12
 - MH# 10906
TYPE: STORM
COVER: BEEHIVE
RIM= 625.82
6.0" SLC SE INV.=624.72
 - MH# 11109
TYPE: STORM
COVER: BEEHIVE
RIM= 626.54
24.0" SLC S INV.=619.84
6.0" SLC SW INV.=625.24
24.0" SLC N INV.=619.79
 - MH# 11110
TYPE: STORM
COVER: BEEHIVE
RIM= 625.33
6.0" SLC NE INV.=625.13
 - MH# 11144
TYPE: STORM
COVER: BEEHIVE
RIM= 626.46
4.0" CPP W INV.=622.96
24.0" SLC S INV.=619.81
24.0" SLC N INV.=619.76

SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Culv, Rem, Less than 24 inch	1	Ea
Culv, End, Rem, Less than 24 inch	1	Ea
Dr Structure, Rem	2	Ea
Sewer, Rem, Less than 24 inch	160	Ft
Curb and Gutter, Rem	59	Ft
Pavt, Rem	12	Syd
Erosion Control, Inlet Protection, Fabric Drop	11	Ea
Cold Milling HMA Surface	3235	Syd
HMA Surface, Rem	345	Syd
Post, Mailbox	10	Ea
Sign, Type III, Rem	2	Ea
Sign, Type V, Rem	1	Ea

PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
STA 223+00 TO STA 231+00
REMOVAL SHEET

ROWE PROFESSIONAL SERVICES COMPANY
127 S. Main Street
Mt. Pleasant, MI 48858
O: (989) 772-2138
F: (989) 773-7757
www.rowepsco.com

PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: 1" = 30'

REV: SHT# 28 OF 72
JOB No: 20M0019

DRIVEWAY SCHEDULE													
C/L DRIVEWAY STATION	PROP PWMT TYPE	DRIVEWAY OFFSET REMOVAL LIMITS (FT)	WIDTH AT REMOVAL LIMITS (FT)	WIDTH AT OPENING (FT)	LENGTH OF DRIVE RESTORATION (FT)	Approach, Cl I, 6 inch, Modified (Syd)	Approach, Cl II, 6 inch, Modified (Syd)	HMA Approach (Ton)	Driveway, Nonreinf Conc, 6 inch (Syd)	Culv, Cl F, 12 inch (Ft)	Culv End Sect, 12 inch (Ea)	Curb and Gutter, Conc, Det B2	Driveway Opening, Conc, Det M
223+29, LT	G	33.0	14.0	34.0	16.0	0	30	0	0	24	2	0	0
224+48, LT	G	34.3	11.0	31.0	12.7	0	21	0	0	0	0	0	0
225+05, LT	C	34.5	55.0	56.0	11.5	70	0	0	70	0	0	20	68
225+12, RT	HMA	31.5	36.0	50.4	13.4	56	0	11	0	0	0	33	65
227+58, LT	HMA	34.6	12.0	24.7	8.3	14	0	3	0	0	0	0	0
228+38, LT	G	34.5	20.0	40.0	6.6	0	17	0	0	0	0	0	0
229+44, RT	HMA	31.6	46.0	69.5	16.6	100	0	19	0	0	0	0	0
229+88, RT	HMA	31.6	12.0	29.5	16.6	34	0	6	0	0	0	0	0
229+89, LT	G	34.4	10.0	30.0	17.4	0	25	0	0	0	0	0	0
230+28, RT	G	31.7	15.0	35.0	14.7	0	30	0	0	0	0	0	0
230+72, RT	G	31.7	12.0	32.0	14.7	0	25	0	0	0	0	0	0

G = GRAVEL DRIVE, C = CONCRETE DRIVE, HMA = HMA DRIVE
 NOTE: Culv, Cl F, _ inch VALUE INDICATES PAY LENGTH, PROFILE INDICATES ACTUAL LENGTH.

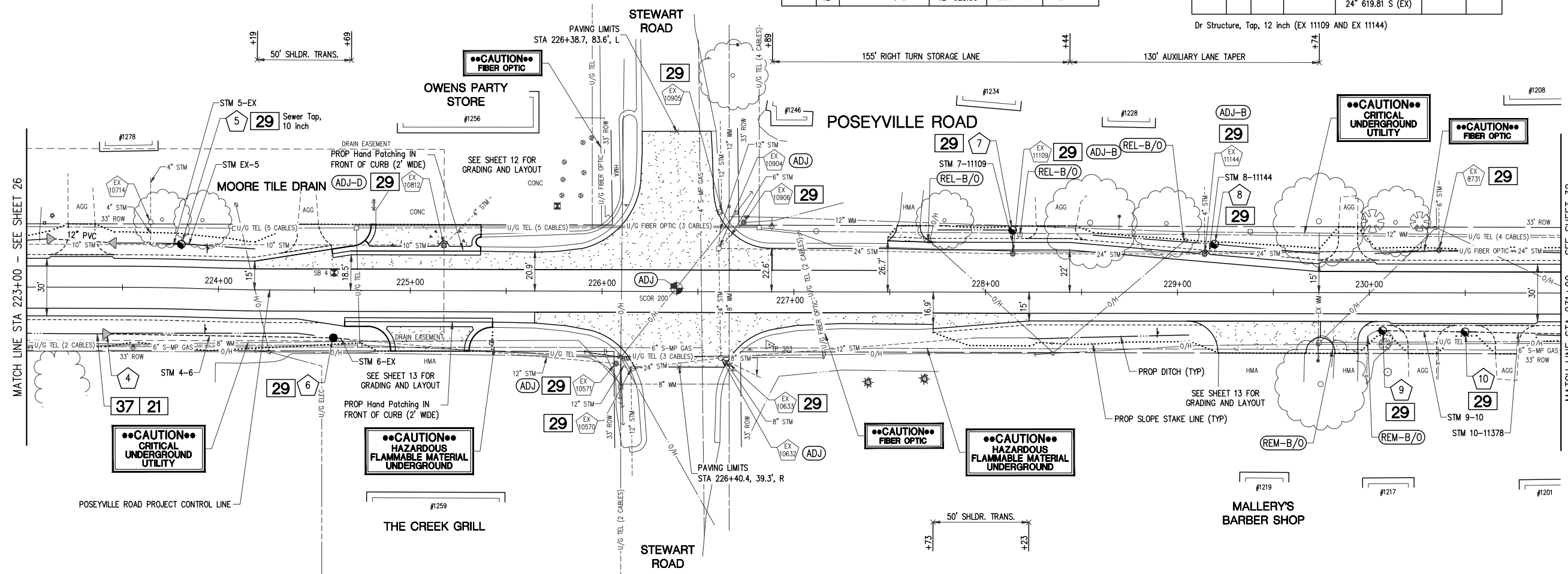
PROPOSED STORM SEWER PIPE TABLE						
PIPE NUMBER	DIAMETER	PAY ITEM	TOTAL LENGTH	SLOPE	TRENCH DETAIL A (T.D. A)	TRENCH DETAIL B (T.D. B)
STM 4-6	12"	Sewer, Cl A, _ inch, Tr Det _	118'	0.50%	118'	0'
STM 5-EX	10"	Sewer, Cl A, _ inch, Tr Det _	8'	0.16%	8'	0'
STM 6-EX	12"	Sewer, Cl A, _ inch, Tr Det _	8'	1.00%	8'	0'
STM 7-11109	12"	Sewer, Cl A, _ inch, Tr Det _	12'	0.50%	0'	12'
STM 8-11144	12"	Sewer, Cl A, _ inch, Tr Det _	7'	0.50%	0'	7'
STM 9-10	12"	Sewer, Cl A, _ inch, Tr Det _	43'	0.50%	0'	43'
STM 10-11378	12"	Sewer, Cl A, _ inch, Tr Det _	103'*	1.82%	79'	24'
STM EX-5	10"	Sewer, Cl A, _ inch, Tr Det _	8'	0.16%	8'	0'

* TOTAL LENGTH SPANS MULTIPLE SHEETS

PROPOSED STORM SEWER END SECTION TABLE					
STRUCT NO.	DIA.	PAY ITEM	END OF PIPE INVERT	END OF PIPE STATION	END OF PIPE OFFSET
4	12"	Culv End Sect, _ inch	12" 625.30	223+41.8	24.4 R

PROPOSED STORM SEWER STRUCTURE TABLE						
STRUCT NO.	DIA.	COVER TYPE	RIM ELEVATION	INVERT	STATION	OFFSET
5	48"	G	RIM=626.04	10" 620.36 N (PR) 10" 620.36 S (PR)	223+80.0	22.9 L
6	48"	B	RIM=628.23	12" 624.71 S (PR) 12" 624.71 N (PR)	224+60.0	24.8 R
7	24"	G	RIM=626.14	12" 622.96 E (PR)	228+14.0	32.3 L
8	24"	G	RIM=626.42	12" 623.42 SE (PR)	229+19.3	25.2 L
9	24"	G	RIM=626.81	12" 622.81 N (PR)	230+07.0	19.8 R
10	48"	G	RIM=626.60	12" 622.59 S (PR) 12" 622.59 N (PR)	230+50.0	20.3 R
EX 11109	N/A	B	RIM=627.53	12" 622.90 W (PR) 6" 625.24 S (EX) 24" 619.79 N (EX) 24" 619.84 S (EX)	228+14.1	20.0 L
EX 11144	N/A	B	RIM=626.46	12" 623.38 NW (PR) 6" 622.96 W (EX) 24" 619.76 N (EX) 24" 619.81 S (EX)	229+14.1	20.0 L

Dr Structure, Top, 12 inch (EX 11109 AND EX 11144)



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Erosion Control, Check Dam, Stone	20	Ft
Erosion Control, Inlet Protection, Fabric Drop	6	Ea
Erosion Control, Sediment Basin	8	Cyd
Subbase, CIP	279	Cyd
Aggregate Base, 6 inch, Modified	641	Syd
Approach, Cl II, 6 inch, Modified	148	Syd
Shoulder, Cl II, 3 inch, Modified	211	Syd
Approach, Cl I, 6 inch, Modified	274	Syd
Culv End Sect, 12 inch	3	Ea
Culv, Cl F, 12 inch	24	Ft
Sewer, Cl A, 10 inch, Tr Det A	16	Ft
Sewer, Cl A, 12 inch, Tr Det A	205	Ft
Sewer, Cl A, 12 inch, Tr Det B	86	Ft
Sewer Tap, 10 inch	1	Ea
Sewer Tap, 12 inch	1	Ea
Dr Structure Cover, Adj, Case 1	5	Ea
Dr Structure Cover, Adj, Case 2	1	Ea

SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Dr Structure Cover, Type B	3	Ea
Dr Structure Cover, Type D	1	Ea
Dr Structure Cover, Type G	5	Ea
Dr Structure, 24 inch dia	3	Ea
Dr Structure, 48 inch dia	3	Ea
Dr Structure, Add Depth of 48 inch dia, 8 foot to 15 foot	1	Ft
Dr Structure, Adj, Add Depth	3	Ft
Dr Structure, Tap, 12 inch	2	Ea
Hand Patching	15	Ton
HMA Approach	124	Ton
HMA, LVSP	282	Ton
Driveway, Nonreinf Conc, 6 inch	70	Syd
Curb and Gutter, Conc, Det B2	53	Ft
Driveway Opening, Conc, Det M	133	Ft
Monument Box Adjust	1	Ea

PLAN SUBMITTALS AND CHANGES		REV:
BIDDING DOCUMENTS		
DATE	DESCRIPTION	
3/19/21	ISSUED FOR BIDS	

PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
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 SCALE: 1" = 30'

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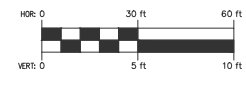
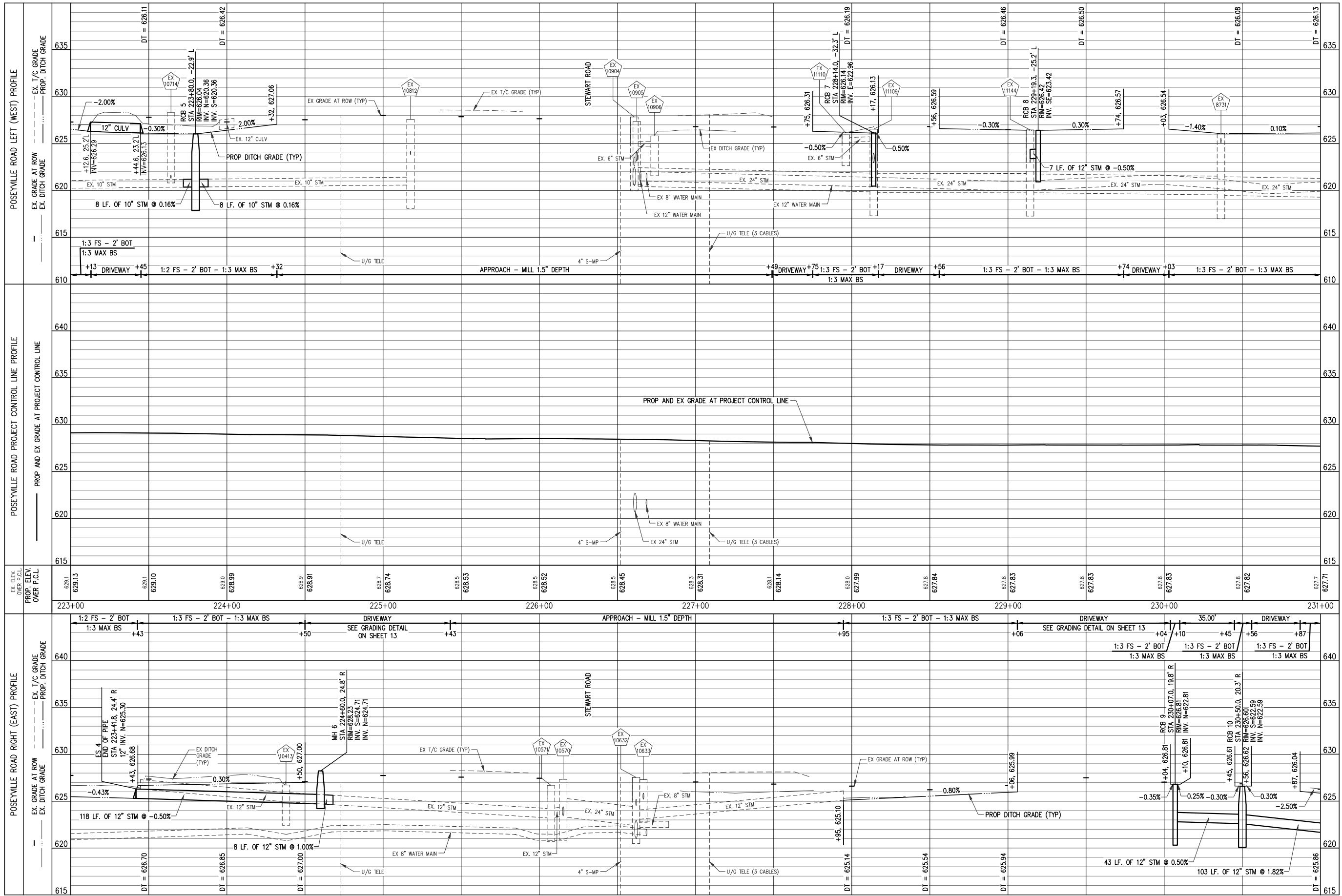
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 Mt. Pleasant, MI 48858

MIDLAND COUNTY ROAD COMMISSION
 2021 POSEYVILLE ROAD REHABILITATION
 STA 223+00 TO STA 231+00
 CONSTRUCTION SHEET

PREPARED FOR

811
 Know what's below.
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SHT# 29 OF 72
 JOB No: 20M0019



PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

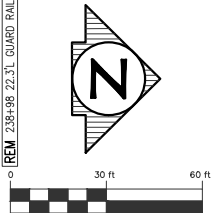
PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: HORZ: 1"=30', VERT: 1"=5'

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PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STA 223+00 TO STA 231+00
 PROFILE SHEET

REV: _____
 SHT# 30 OF 72
 JOB No: 20M0019

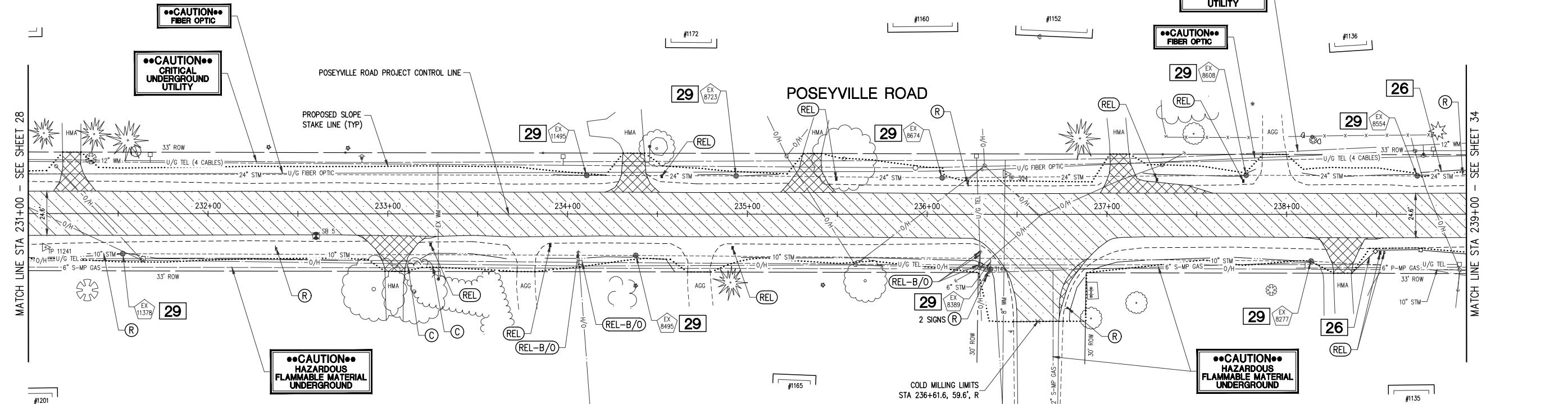
- 231+08 98.4'L WOOD BUILDING
- 231+09 44.8'L 18" PINE
- 231+16 26.3'L GUY POLE
- 231+35 35.6'L 6" DECID. SHRUB
- 231+37 44.2'L 20" PINE
- 231+55 40.8'L 24" PINE
- 231+60 34.6'L 6" CRAB APPLE
- 231+68 32.9'L TELE RISER
- 232+34 37.0'L * STUMP
- 232+76 34.0'L IRON PIPE
- 232+78 36.6'L * STUMP
- 232+85 30.9'L GATE VALVE
- 232+86 32.0'L FIRE HYDRANT
- 233+86 33.9'L IRON ROD
- 233+88 32.0'L TELE RISER
- 234+11 21.4'L ROUND CB
- 234+46 37.6'L WATER STOP BOX
- 234+46 36.2'L LANDSCAPING
- 234+50 36.5'L 20" MAPLE
- REL 234+52 21.0'L MAIL BOX
- REL 234+54 32.6'L WOOD BUILDING
- 234+56 36.6'L LANDSCAPING
- 234+83 92.3'L WOOD BUILDING
- 234+94 21.3'L ROUND CB
- 235+22 32.2'L ELEC POLE
- REL 235+49 19.6'L MAIL BOX
- 235+54 30.8'L 35" MAPLE
- 235+93 25.8'L TELE MH
- 236+08 20.3'L ROUND CB
- REL 236+22 17.1'L MISC SIGN
- 236+27 32.4'L TELE RISER
- 236+32 27.1'L ELEC POLE
- 236+44 22.4'L TP 304
- 236+49 98.8'L WOOD BUILDING
- 236+64 98.8'L GAS METER
- 236+85 42.2'L 24" PINE
- 236+92 87.9'L WOOD BUILDING
- REL 237+26 19.2'L MAIL BOX
- 237+30 63.3'L HEAVY WOODS
- 237+30 27.4'L ELEC POLE
- 237+30 65.9'L CHANLINK
- 237+31 53.4'L CHANLINK
- 237+31 33.3'L IRON ROD
- 237+31 34.3'L GUY WIRE
- 237+43 34.3'L GUY WIRE
- 237+48 44.8'L 12" CRAB APPLE
- 237+56 65.7'L HEAVY WOODS
- 237+68 42.7'L POST & RAIL
- REL 237+76 18.5'L MAIL BOX
- 237+77 21.7'L ROUND CB
- 237+84 61.4'L ORNAMENTAL LIGHT
- 237+84 42.7'L POST & RAIL
- 238+01 43.2'L POST & RAIL
- 238+09 44.0'L ROCK
- 238+14 43.1'L FLAG POLE
- 238+15 41.2'L 4" DECID. SHRUB
- 238+18 40.4'L ROCK
- 238+24 43.6'L POST & RAIL
- 238+24 90.0'L WOOD BUILDING
- 238+48 91.6'L WOOD BUILDING
- 238+71 35.2'L ELEC POLE
- 238+71 35.2'L ELEC POLE
- 238+76 33.4'L GATE VALVE
- 238+76 32.5'L FIRE HYDRANT
- 238+82 36.2'L TELE RISER
- 238+83 44.2'L POST & RAIL
- 238+84 46.2'L 10" JUMPER
- REL 238+88 22.3'L GUARD RAIL



SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Sewer, Rem, Less than 24 inch	20	Ft
Guardrail, Rem	3	Ft
Erosion Control, Inlet Protection, Fabric Drop	9	Ea
Erosion Control, Silt Fence	95	Ft
Cold Milling HMA Surface	2375	Syd
HMA Surface, Rem	257	Syd
Post, Mailbox	9	Ea
Sign, Type III, Rem	5	Ea

NOTE: QUANTITY FOR Clearing ACCOUNTED FOR ON SHEET 3



- #### EXISTING STRUCTURES
- | | | |
|---|--|--|
| MH# 8277
TYPE: STORM
COVER: FLAT GRATE
RIM= 614.35
10.0' RCP N INV.=612.45
10.0' RCP S INV.=612.45 | MH# 8554
TYPE: STORM
COVER: BEEHIVE
RIM= 614.28
24.0' SLC N INV.=608.18
24.0' SLC S INV.=608.28 | MH# 8723
TYPE: STORM
COVER: FLAT GRATE
RIM= 623.68
24.0' RCP N INV.=617.48
24.0' RCP S INV.=617.08 |
| MH# 8389
TYPE: STORM
COVER: FLAT GRATE
RIM= 618.77
6.0' VCP W INV.=617.42 | MH# 8608
TYPE: STORM
COVER: BEEHIVE
RIM= 624.02
24.0' SLC N INV.=610.63
24.0' SLC S INV.=610.73 | MH# 11378
TYPE: STORM
COVER: FLAT GRATE
RIM= 624.02
10.0' RCP N INV.=620.72
10.0' RCP S INV.=620.72 |
| MH# 8495
TYPE: STORM
COVER: BEEHIVE
RIM= 623.60
10.0' RCP S INV.=618.65
10.0' RCP N INV.=618.65 | MH# 8674
TYPE: STORM
COVER: BEEHIVE
RIM= 624.54
24.0' SLC N INV.=615.22
24.0' SLC S INV.=615.32 | MH# 11495
TYPE: STORM
COVER: BEEHIVE
RIM= 624.54
24.0' SLC N INV.=618.34
24.0' SLC S INV.=618.34 |

- 231+10 18.7'R TP 11241
- 231+16 98.9'R WOOD BUILDING
- 231+33 42.5'R 12" DECID. SHRUB
- 231+53 22.3'R ROUND CB
- 231+63 98.0'R ELEC POLE
- 231+64 24.9'R TELE RISER
- REL 232+36 19.2'R MISC SIGN
- 232+60 12.3'R SOIL BORING
- 232+92 41.9'R 35" MAPLE
- REL 233+11 29.5'R BRUSH AREA
- 233+15 43.3'R 35" MAPLE
- REL 233+24 17.0'R MAIL BOX
- 233+28 36.3'R WATER STOP BOX
- 233+69 63.1'R BRUSH AREA
- REL 233+90 17.4'R MAIL BOX
- REL-B/O 234+06 20.7'R GUY WIRE
- REL-B/O 234+07 28.9'R ELEC POLE
- REL-B/O 234+07 26.9'R TELE RISER
- 234+06 41.0'R HEAVY WOODS
- 234+38 34.9'R * STUMP
- 234+38 23.0'R ROUND CB
- REL 234+92 18.5'R MAIL BOX
- 235+14 88.8'R WOOD BUILDING
- 235+38 89.7'R WOOD BUILDING
- 235+42 39.4'R * STUMP
- 235+60 28.2'R ELEC POLE
- 235+66 37.0'R 24" WALNUT
- 235+75 28.8'R GUY WIRE
- 236+16 37.2'R GUY WIRE
- 236+29 29.8'R ELEC POLE
- REL-B/O 236+29 20.8'R GUY WIRE
- REL-B/O 236+30 28.2'R TELE RISER
- REL-B/O 236+30 20.3'R GUY WIRE
- 236+30 29.1'R BM 314
- 236+33 33.9'R STREET SIGN
- 236+34 32.3'R GAS MARKER POST
- 236+35 30.6'R ROUND CB
- REL 236+47 65.3'R MISC SIGN
- REL 236+76 52.0'R STOP SIGN
- 236+89 37.8'R LANDSCAPING
- 236+91 57.9'R 12" CRAB APPLE
- 236+91 43.4'R ADVERTISING SIGN
- 236+95 47.0'R LANDSCAPING
- 237+16 49.3'R 12" MAPLE
- 237+91 42.1'R 6" DECID. SHRUB
- 238+14 26.1'R ROUND CB
- REL 238+52 21.4'R MAIL BOX
- REL 238+57 65.1'R WOOD BUILDING
- 238+82 94.8'R WOOD BUILDING
- 238+95 42.8'R GUY WIRE
- 238+96 31.0'R ELEC POLE
- 238+96 27.8'R TELE RISER
- 238+14 26.1'R ROUND CB
- REL 238+52 21.4'R MAIL BOX
- REL 238+57 65.1'R WOOD BUILDING
- 238+82 94.8'R WOOD BUILDING
- 238+95 42.8'R GUY WIRE
- 238+96 31.0'R ELEC POLE
- 238+96 27.8'R TELE RISER

PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

ROWE PROFESSIONAL SERVICES COMPANY

PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
STA 231+00 TO STA 239+00
REMOVAL SHEET

PLAN DATE: MARCH 2021

PROJECT MGR: MJS

REVIEWER: TCL

SCALE: 1" = 30'

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REV:

SHT# 31 OF 72

JOB No: 20M0019

PLotted: 3/20/2021 1:19 PM

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DRIVEWAY SCHEDULE										
C/L DRIVEWAY STATION	PROP PWMT TYPE	DRIVEWAY OFFSET REMOVAL LIMITS (FT)	WIDTH AT REMOVAL LIMITS (FT)	WIDTH AT OPENING (FT)	LENGTH OF DRIVE RESTORATION (FT)	Approach, Cl I, 6 inch, Modified (Syd)	Approach, Cl II, 6 inch, Modified (Syd)	HMA Approach (Ton)	Culv, Cl F, 12 inch (Ft)	Culv End Sect, 12 inch (Ea)
231+24, LT	HMA	34.2	10.0	30.0	19.2	27	0	5	0	0
233+04, RT	HMA	32.0	11.0	31.0	17.0	26	0	5	24	2
233+77, RT	G	32.1	10.0	30.0	15.1	0	22	0	24	2
234+37, LT	HMA	33.8	12.0	32.0	18.8	30	0	6	0	0
234+73, RT	G	32.2	13.0	33.0	15.2	0	27	0	0	0
235+36, LT	HMA	33.7	10.0	30.0	18.7	26	0	5	0	0
237+07, LT	HMA	33.5	11.0	31.0	15.5	24	0	5	0	0
237+93, LT	G	33.3	13.0	33.0	16.3	0	29	0	0	0
238+31, RT	HMA	32.8	10.0	30.0	17.8	25	0	5	0	0

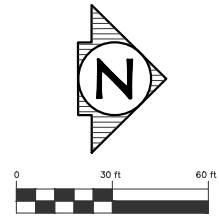
G = GRAVEL DRIVE, HMA = HMA DRIVE
 NOTE: Culv, Cl F, _ inch VALUE INDICATES PAY LENGTH, PROFILE INDICATES ACTUAL LENGTH.

PROPOSED STORM SEWER STRUCTURE TABLE						
STRUCT NO.	DIA.	COVER TYPE	RIM ELEVATION	INVERT	STATION	OFFSET
EX 11378	N/A	N/A	RIM=625.40	12" 620.72 S (PR) 10" 620.72 N (EX)	231+52.6	22.3 R

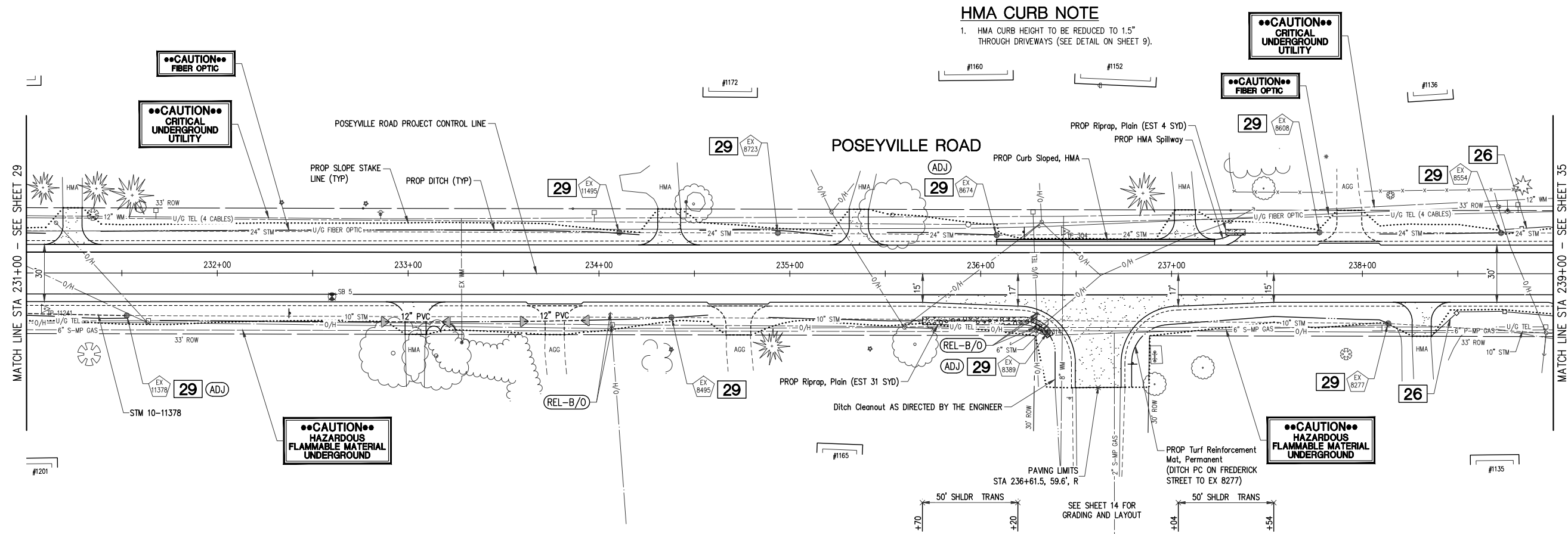
Dr Structure, Tap, 12 inch (EX 11378)

PROPOSED STORM SEWER PIPE TABLE						
PIPE NUMBER	DIAMETER	PAY ITEM	TOTAL LENGTH	SLOPE	TRENCH DETAIL A (T.D. A)	TRENCH DETAIL B (T.D. B)
STM 10-11378	12"	Sewer, Cl A, _ inch, Tr Det _	103'	1.82%	79'	24'

NOTE: PIPE LENGTH/QUANTITY FOR PIPE STM 10-11378 IS ACCOUNTED FOR ON SHEET 29



PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: 1" = 30'



HMA CURB NOTE

- HMA CURB HEIGHT TO BE REDUCED TO 1.5" THROUGH DRIVEWAYS (SEE DETAIL ON SHEET 9).

SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Subbase, CIP	349	Cyd
Aggregate Base, 6 inch, Modified	722	Syd
Approach, Cl II, 6 inch, Modified	78	Syd
Shoulder, Cl II, 3 inch, Modified	317	Syd
Approach, Cl I, 6 inch, Modified	158	Syd
Culv End Sect, 12 inch	4	Ea
Culv, Cl F, 12 inch	48	Ft
Dr Structure Cover, Adj, Case 2	3	Ea
Dr Structure, Adj, Add Depth	1	Ft
Dr Structure, Tap, 12 inch	1	Ea
HMA Approach	60	Ton
HMA, LVSP	276	Ton
HMA Spillway	5	Syd
Curb Sloped, HMA	115	Ft
Riprap, Plain	35	Syd
Turf Reinforcement Mat, Permanent	107	Syd



PLAN SUBMITTALS AND CHANGES

ISSUED DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 CONSTRUCTION SHEET



STA 231+00 TO STA 239+00
 STA 231+00 TO STA 239+00
 CONSTRUCTION SHEET

SHT# 32 OF 72
 JOB No: 20M0019

PLotted: 3/20/2021 1:19 PM R:\Projects\20M0019\Orig\Construction Drawings\SP-20M0019-RPCL.dwg

REM 239+14 19.7L GUARD RAIL
 REM 239+22 18.8L GUARD RAIL
 REM 239+33 17.9L GUARD RAIL
 REM 239+38 17.0L GUARD RAIL
 REM 239+70 17.6L GUARD RAIL
 239+74 8.3L SOIL BORING
 REL-B/O 239+85 21.4L GAS MARKER POST
 REM 240+19 17.5L GUARD RAIL

240+42 49.0L RIP RAP
 240+43 31.9L RIP RAP
 240+44 19.6L RIP RAP
 240+54 51.2L RIP RAP
 240+65 38.7L CULV
 240+68 18.7L RIP RAP
 240+70 17.3L GUARD RAIL
 240+84 38.0L CULV
 240+82 50.0L RIP RAP
 241+05 19.1L RIP RAP
 241+07 49.0L RIP RAP
 241+07 36.0L RIP RAP
 REM 241+19 17.5L GUARD RAIL
 REM 241+33 18.4L GUARD RAIL

241+63 36.2L FIBER OPTIC MARKER POST
 241+63 36.2L GAS MARKER POST
 241+63 35.0L GAS MARKER POST
 REM 241+63 21.9L GUARD RAIL
 241+68 55.9L POST & RAIL
 241+68 45.9L POST & RAIL
 241+70 54.5L 8' DECID. SHRUB
 241+88 38.7L 5' DECID. SHRUB
 242+03 26.5L WOOD BUILDING
 242+13 41.4L 4' DECID. SHRUB
 242+14 19.8L MAIL BOX
 242+20 33.9L 4' DECID. SHRUB
 242+30 91.6L WOOD BUILDING
 242+57 31.1L ELEC POLE
 242+66 35.3L 6' DECID. SHRUB
 242+75 33.6L 8' PINE
 242+85 34.1L TELE RISER
 242+86 36.2L 10' DECID. SHRUB
 REM 242+90 21.2L SPEED LIMIT SIGN

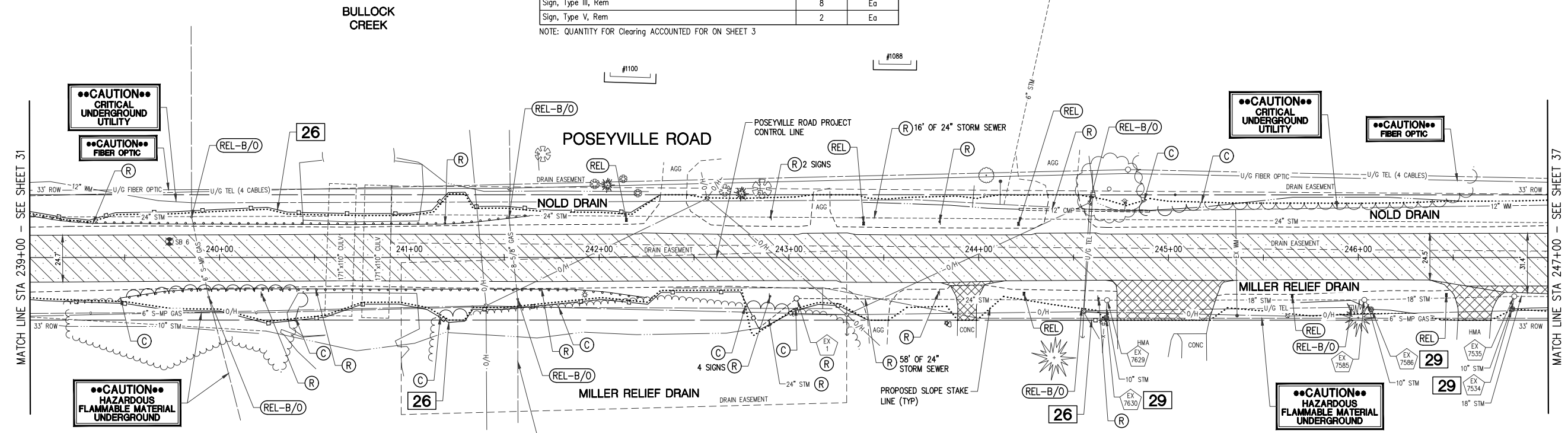
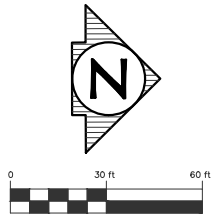
SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Culv, Rem, Less than 24 inch	1	Ea
Dr Structure, Rem	1	Ea
Sewer, Rem, 24 inch to 48 inch	100	Ft
Guardrail, Rem	542	Ft
Pavt, Rem	24	Syd
Erosion Control, Inlet Protection, Fabric Drop	3	Ea
Erosion Control, Silt Fence	844	Ft
Cold Milling HMA Surface	2209	Syd
HMA Surface, Rem	182	Syd
Post, Mailbox	6	Ea
Sign, Type III, Rem	8	Ea
Sign, Type V, Rem	2	Ea

NOTE: QUANTITY FOR Clearing ACCOUNTED FOR ON SHEET 3

244+03 32.9L IRON PIPE
 244+04 43.2L 8' RED OAK
 244+11 40.1L WATER STOP BOX
 244+28 28.1L 12" METAL PIPE (C&P)
 REM 244+21 25.4L 12" METAL PIPE (C&P)
 REL-B/O 244+58 28.9L ELEC POLE
 244+59 28.0L FIBER OPTIC MARKER POST
 244+60 33.2L TELE RISER
 244+69 36.1L 36" RED OAK
 244+77 29.9L FIRE HYDRANT
 244+77 28.7L GATE VALVE
 244+84 55.0L HEAVY WOODS
 244+88 29.1L HEAVY WOODS
 REM 244+90 24.4L 12" METAL PIPE (C&P)
 CLR 244+96 26.3L HEAVY WOODS
 245+04 33.0L IRON ROD
 CLR 245+18 29.1L HEAVY WOODS

246+16 28.9L HEAVY WOODS
 246+45 30.5L HEAVY WOODS
 246+56 35.0L HEAVY WOODS
 246+61 47.8L HEAVY WOODS



EXISTING STRUCTURES

- | | | | | | |
|---|---|---|---|---|---|
| MH# 7534
TYPE: STORM
COVER: BEEHIVE
RIM= 616.83
10.0' SLC W INV.=614.63 | MH# 7586
TYPE: STORM
COVER: BEEHIVE
RIM= 614.07
24.0' SLC N INV.=607.50
24.0' SLC SE INV.=607.50 | MH# 7535
TYPE: STORM
COVER: SOLID
RIM= 618.37
18.0' SLC N INV.=613.82
10.0' SLC E INV.=614.17
18.0' SLC S INV.=612.52 | MH# 7629
TYPE: STORM
COVER: SOLID
RIM= 614.41
18.0' SLC N INV.=608.86
10.0' SLC E INV.=611.41
24.0' SLC S INV.=608.56 | MH# 7585
TYPE: STORM
COVER: SOLID
RIM= 615.75
18.0' SLC N INV.=611.65
10.0' SLC E INV.=612.25
18.0' SLC S INV.=610.55 | MH# 7630
TYPE: STORM
COVER: BEEHIVE
RIM= 613.76
10.0' SLC W INV.=611.76 |
|---|---|---|---|---|---|

239+21 24.6R BRUSH AREA
 239+32 29.3R GAS MARKER POST
 239+48 21.3R GUARD RAIL
 239+70 17.6R GUARD RAIL
 239+87 16.8R GUARD RAIL
 239+84 20.9R GAS MARKER POST
 240+19 29.2R GAS MARKER POST
 240+22 19.8R MSC SIGN
 240+25 38.8R 12\"/>

240+63 30.7R CULV
 240+69 16.6R GUARD RAIL
 240+82 31.8R CULV
 241+05 37.6R RIP RAP
 241+12 54.6R BRUSH AREA
 241+20 16.7R GUARD RAIL
 241+33 26.1R GAS MARKER POST
 241+40 25.5R ELEC POLE
 241+57 21.9R GAS MARKER POST
 241+70 16.7R GUARD RAIL
 241+87 16.8R GUARD RAIL
 241+92 19.7R LIGHT POLE
 242+03 18.2R GUARD RAIL
 242+25 21.2R GUARD RAIL
 242+90 20.9R SPEED LIMIT SIGN
 243+02 30.1R GUY WIRE
 243+04 22.5R STORM MH
 243+30 30.2R ELEC POLE
 243+31 41.0R GUY WIRE
 243+37 48.3R BRUSH AREA
 243+70 22.6R MP 7174
 243+79 18.4R MSC SIGN
 243+83 34.6R * STUMP
 243+85 35.3R ROCK
 244+24 19.1R MAIL BOX
 244+40 52.8R 24\"/>

244+52 99.4R BRCK BUILDING
 244+56 26.3R TELE RISER
 244+55 28.0R TELE RISER
 244+63 21.6R MSC SIGN
 244+65 50.3R CHANLINK
 244+66 33.7R 4' DECID. SHRUB
 244+67 31.7R ROUND CB
 244+68 22.5R STORM MH
 244+68 29.5R GUY WIRE
 245+36 30.6R WATER STOP BOX
 245+63 30.9R ELEC POLE
 245+65 20.3R MAIL BOX
 245+84 97.7R WOOD BUILDING
 245+86 26.3R TELE RISER
 246+00 31.7R 20\"/>

246+32 96.7R WOOD BUILDING
 246+46 19.8R MAIL BOX
 246+64 98.1R WOOD BUILDING
 246+81 27.1R ROUND CB
 246+82 20.5R STORM MH

PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

ROWE PROFESSIONAL SERVICES COMPANY

127 S. Main Street
Mt. Pleasant, MI 48858

PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STA 239+00 TO STA 247+00
 REMOVAL SHEET

PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: 1" = 30'

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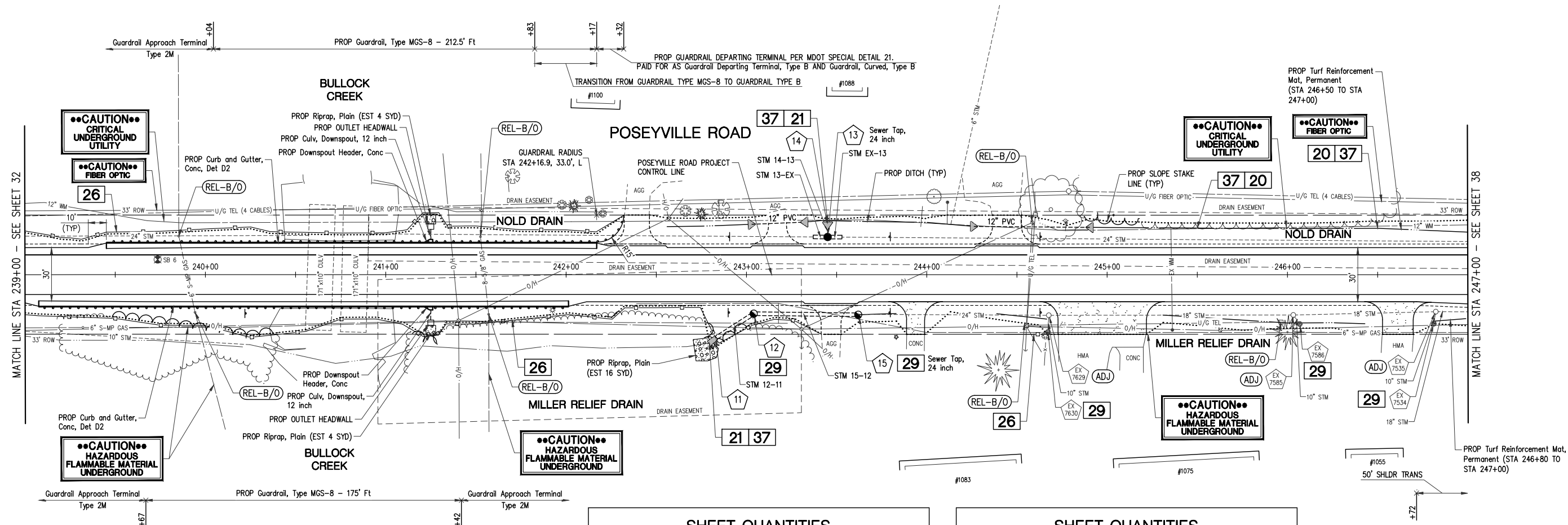
DRIVEWAY SCHEDULE										
C/L DRIVEWAY STATION	PROP PWMT TYPE	DRIVEWAY OFFSET REMOVAL LIMITS (FT)	WIDTH AT REMOVAL LIMITS (FT)	WIDTH AT OPENING (FT)	LENGTH OF DRIVE RESTORATION (FT)	Approach, Cl I, 6 inch, Modified (Syd)	Approach, Cl II, 6 inch, Modified (Syd)	HMA Approach (Ton)	Culv, Cl F, 12 inch (Ft)	Culv End Sect, 12 inch (Ea)
242+39, LT	G	33.0	14.0	34.0	16.0	0	30	0	0	0
243+17, LT	G	33.0	10.0	30.0	16.0	0	23	0	21	2
243+47, RT	G	33.0	31.0	11.0	16.0	0	25	0	0	0
243+92, RT	HMA	33.0	10.0	30.0	18.0	25	0	5	0	0
244+45, LT	G	33.0	16.0	36.0	16.0	0	34	0	56	2
244+97, RT	HMA	33.0	49.0	69.0	18.0	103	0	19	0	0
246+61, RT	HMA	33.0	17.0	37.0	18.0	39	0	8	0	0

G = GRAVEL DRIVE, HMA = HMA DRIVE
 NOTE: Culv, Cl F, _ inch VALUE INDICATES PAY LENGTH, PROFILE INDICATES ACTUAL LENGTH.

PROPOSED STORM SEWER STRUCTURE TABLE						
STRUCT NO.	DIA.	COVER TYPE	RIM ELEVATION	INVERT	STATION	OFFSET
12	48"	G	RIM=612.50	24" 607.66 N (PR) 24" 607.66 SE (PR)	243+04.0	21.6 R
13	48"	B	RIM=612.16	24" 605.78 S (PR) 24" 605.78 N (PR) 12" 608.64 W (PR)	243+45.0	20.9 L
15	48"	G	RIM=612.18	24" 607.95 S (PR) 24" 607.88 N (EX)	243+62.0	22.2 R

PROPOSED STORM SEWER PIPE TABLE						
PIPE NUMBER	DIAMETER	PAY ITEM	TOTAL LENGTH	SLOPE	TRENCH DETAIL A (T.D. A)	TRENCH DETAIL B (T.D. B)
STM 12-11	24"	Sewer, Cl A, _ inch, Tr Det _	25'	0.51%	25'	0'
STM 13-EX	24"	Sewer, Cl A, _ inch, Tr Det _	8'	1.50%	0'	8'
STM 14-13	12"	Sewer, Cl A, _ inch, Tr Det _	6'	11.90%	6'	0'
STM 15-12	24"	Sewer, Cl A, _ inch, Tr Det _	58'	0.50%	0'	58'
STM EX-13	24"	Sewer, Cl A, _ inch, Tr Det _	8'	1.50%	0'	8'

PROPOSED STORM SEWER END SECTION TABLE					
STRUCT NO.	DIA.	PAY ITEM	END OF PIPE INVERT	END OF PIPE STATION	END OF PIPE OFFSET
11	24"	Culv, Slp End Sect, 1 on 4, _ inch, Longit	24" 607.53	242+83.1	35.1 R
14	12"	Culv End Sect, _ inch	12" 609.39	243+45.0	27.2 L



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Erosion Control, Check Dam, Stone	80	Ft
Erosion Control, Inlet Protection, Fabric Drop	2	Ea
Erosion Control, Inlet Protection, Sediment Trap	2	Ea
Erosion Control, Sediment Basin	16	Cyd
Subbase, CIP	337	Cyd
Aggregate Base, 6 inch, Modified	736	Syd
Approach, Cl II, 6 inch, Modified	112	Syd
Shoulder, Cl II, 3 inch, Modified	207	Syd
Approach, Cl I, 6 inch, Modified	167	Syd
Culv End Sect, 12 inch	5	Ea
Culv, Cl F, 12 inch	77	Ft
Culv, Downspout, 12 inch	12	Ft
Culv, Slp End Sect, 1 on 4, 24 inch, Longit	1	Ea
Sewer, Cl A, 12 inch, Tr Det A	6	Ft
Sewer, Cl A, 24 inch, Tr Det A	25	Ft
Sewer, Cl A, 24 inch, Tr Det B	74	Ft
Sewer Tap, 24 inch	2	Ea
Dr Structure Cover, Adj, Case 2	3	Ea

SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Dr Structure Cover, Type B	1	Ea
Dr Structure Cover, Type G	2	Ea
Dr Structure, 48 inch dia	3	Ea
HMA Approach	32	Ton
HMA, LVSP	294	Ton
Conc, Grade S2	2	Cyd
Reinforcement, Steel, Culv and Headwall	80	Lb
Curb and Gutter, Conc, Det D2	565	Ft
Downspout Header, Conc	2	Ea
Guardrail, Type MGS-8	388	Ft
Guardrail, Curved, Type B	24	Ft
Guardrail Approach Terminal, Type 2M	3	Ea
Guardrail Departing Terminal, Type B	1	Ea
Guardrail Reflector	18	Ea
Riprap, Plain	24	Syd
Turf Reinforcement Mat, Permanent	47	Syd

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PLAN SUBMITTALS AND CHANGES		REV:
BIDDING DOCUMENTS		
DATE	DESCRIPTION	
3/19/21	ISSUED FOR BIDS	

PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: 1" = 30'

ROWE PROFESSIONAL SERVICES COMPANY

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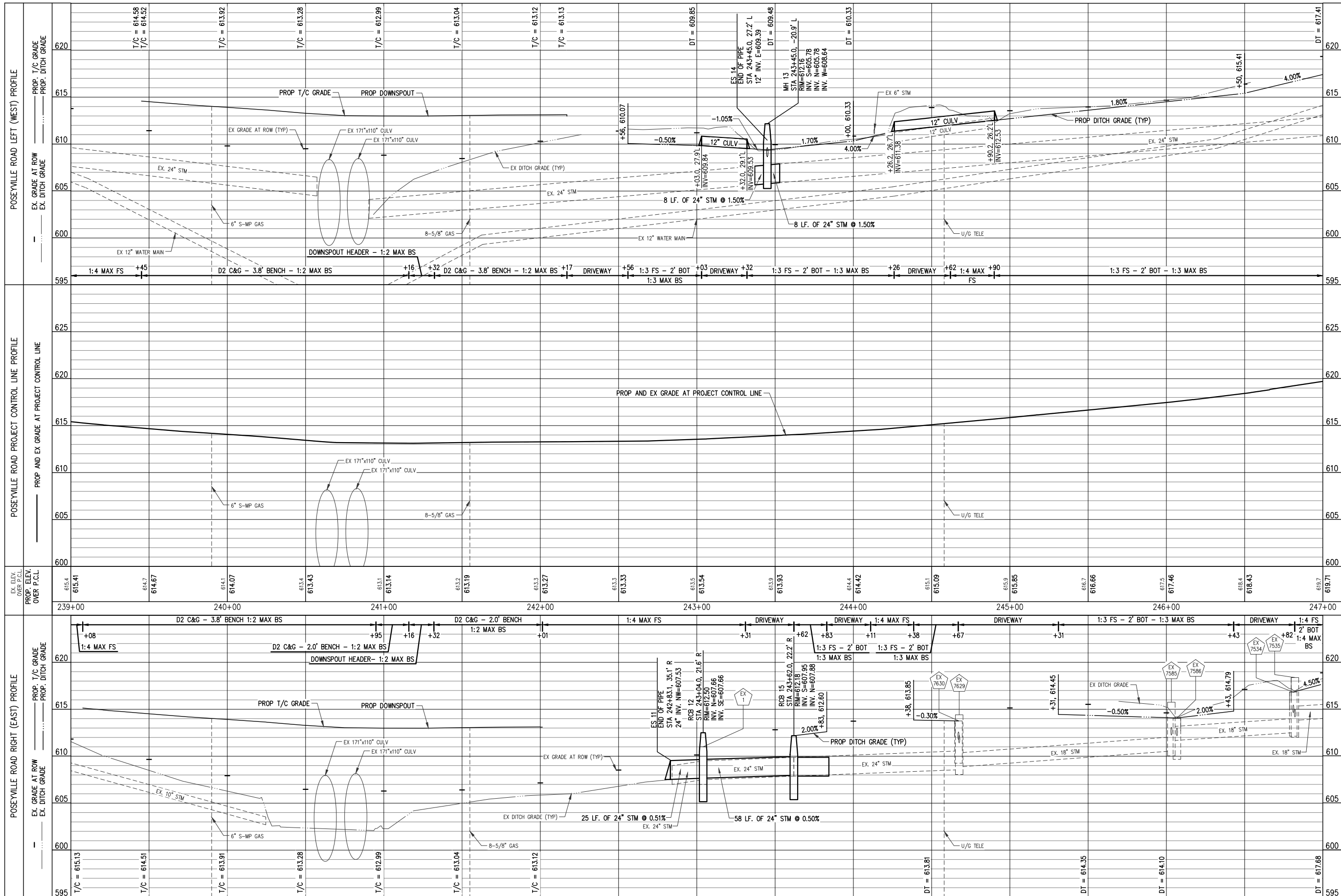
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MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STA 239+00 TO STA 247+00
 CONSTRUCTION SHEET

PREPARED FOR

SHT# 35 OF 72
 JOB No: 20M0019

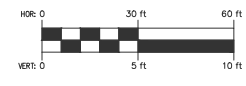
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PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: HORIZ: 1"=30', VERT: 1"=5'

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 F: (989) 773-7757
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 127 S. Main Street
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2021 POSEYVILLE ROAD REHABILITATION
 STA 239+00 TO STA 247+00
 PROFILE SHEET

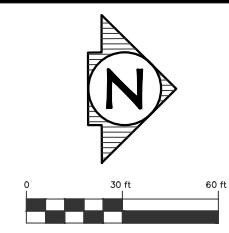
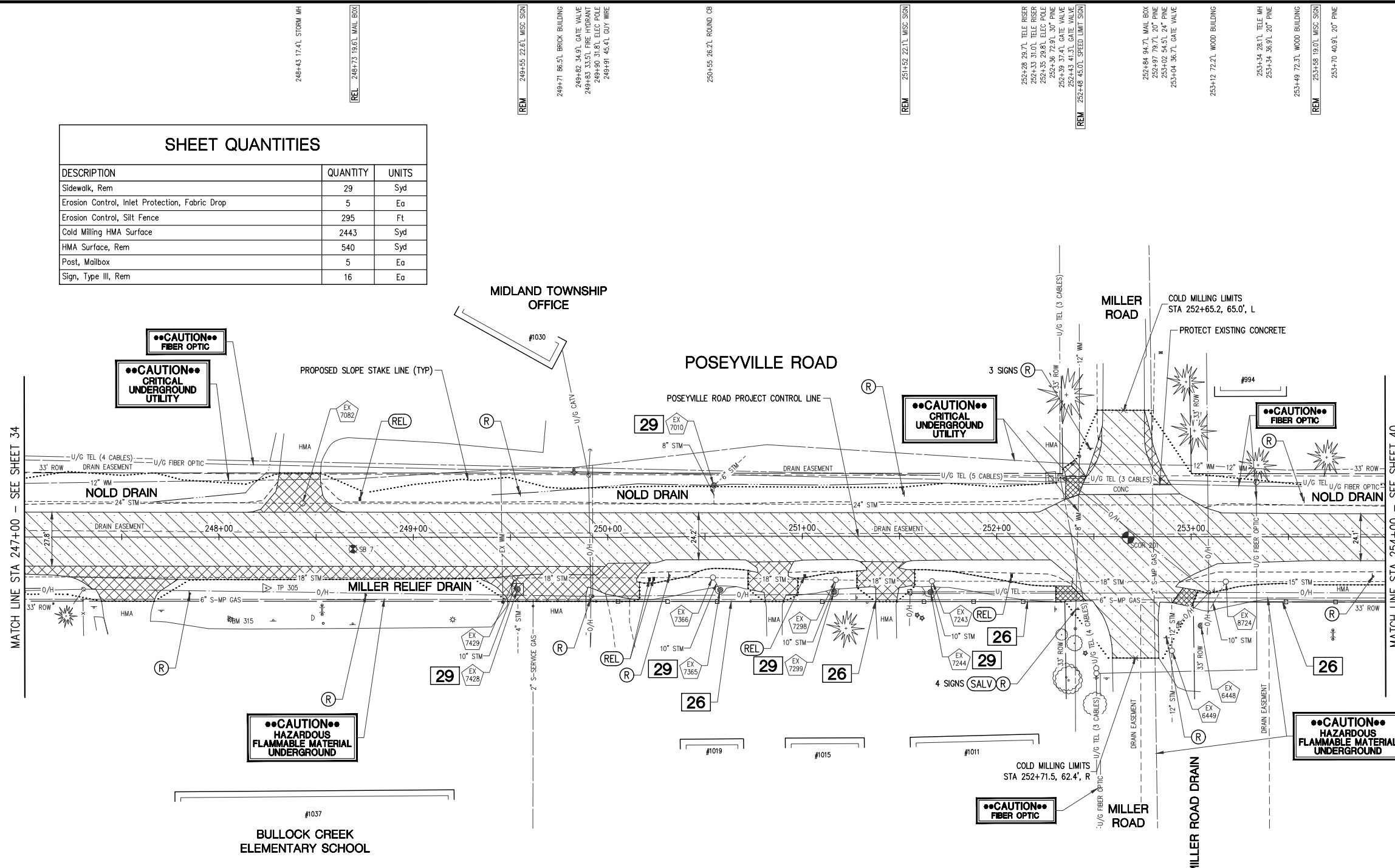


PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV: _____
 SHT# 36 OF 72
 JOB No: 20M0019

SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Sidewalk, Rem	29	Syd
Erosion Control, Inlet Protection, Fabric Drop	5	Ea
Erosion Control, Silt Fence	295	Ft
Cold Milling HMA Surface	2443	Syd
HMA Surface, Rem	540	Syd
Post, Mailbox	5	Ea
Sign, Type III, Rem	16	Ea



EXISTING STRUCTURES

MH# 6448 TYPE: STORM COVER: BEEHIVE RIM= 622.88 10.0' SLC W INV.=620.88	MH# 7082 TYPE: STORM COVER: SOLID RIM= 621.47 18.0' RCP S INV.=612.97 24.0' RCP N INV.=613.07	MH# 7298 TYPE: STORM COVER: SOLID RIM= 623.08 18.0' SLC N INV.=617.92 10.0' SLC E INV.=619.42 18.0' SLC S INV.=617.77	MH# 7366 TYPE: STORM COVER: SOLID RIM= 623.08 18.0' SLC N INV.=617.38 10.0' SLC E INV.=619.08 18.0' SLC S INV.=617.23	MH# 7429 TYPE: STORM COVER: SOLID RIM= 622.77 18.0' SLC N INV.=616.82 10.0' SLC E INV.=619.77 18.0' SLC S INV.=616.77
MH# 6449 TYPE: STORM COVER: SOLID RIM= 623.40 12.0' RCP E INV.=613.35 12.0' RCP W INV.=613.35	MH# 7243 TYPE: STORM COVER: SOLID RIM= 623.37 10.0' SLC E INV.=619.37 18.0' SLC S INV.=618.07 18.0' SLC N INV.=618.17	MH# 7299 TYPE: STORM COVER: BEEHIVE RIM= 622.69 10.0' SLC W INV.=620.69	MH# 7428 TYPE: STORM COVER: FLAT GRATE RIM= 622.39 4.0' PVC E INV.=621.14 10.0' SLC W INV.=517.39	MH# 8724 TYPE: STORM COVER: FLAT GRATE RIM= 624.21 15.0' SLC N INV.=619.16 10.0' SLC E INV.=620.71 18.0' SLC S INV.=619.01
MH# 7010 TYPE: STORM COVER: BEEHIVE RIM= 621.04 8.0' VCP E INV.=618.74 6.0' CPP NW INV.=619.24	MH# 7365 TYPE: STORM COVER: BEEHIVE RIM= 622.01 10.0' SLC W INV.=619.51	MH# 7365 TYPE: STORM COVER: BEEHIVE RIM= 622.11 10.0' SLC W INV.=619.51		

247+15 34.2R GAS STOP BOX	247+21 40.6R 12" PINE	247+30 50.8R CHAINLINK	247+30 32.3R IRON PIPE	247+30 26.9R ELEC POLE	247+36 36.2R MSC SIGN	247+70 38.0R MSC SIGN	247+85 29.1R MSC SIGN	248+06 41.8R BM 315	248+06 42.4R LIGHT POLE	248+24 26.2R TP 305	248+28 42.8R MSC SIGN	248+48 41.5R HAND HOLE	248+53 37.4R ADVERTISING SIGN	248+54 44.3R METAL POST	248+69 6.1R SOIL BORING	248+69 44.5R MSC SIGN	248+76 29.8R MSC SIGN	249+20 42.4R LIGHT POLE	249+46 33.3R WATER STOP BOX	249+46 33.3R WATER STOP BOX	249+46 33.3R WATER STOP BOX	249+46 33.3R WATER STOP BOX	249+46 33.3R WATER STOP BOX	249+91 30.3R ELEC POLE	249+91 31.9R MSC SIGN	249+91 31.9R POST & RAIL	249+91 47.9R POST & RAIL	249+91 47.9R POST & RAIL	249+94 33.0R IRON ROD	250+21 21.8R MAIL BOX	250+23 21.5R MAIL BOX	250+32 19.9R MSC SIGN	250+54 21.2R STORM MH	250+56 27.6R ROUND CB	250+73 33.6R IRON PIPE	251+01 20.6R MAIL BOX	251+16 26.6R ROUND CB	251+17 22.9R STORM MH	251+28 31.6R MSC SIGN	251+33 34.1R IRON ROD	251+55 28.5R TELE RISER	251+56 29.4R ELEC POLE	251+59 40.5R * STUMP	251+62 42.0R * STUMP	251+63 29.3R GUY WIRE	251+66 26.7R ROUND CB	251+67 23.1R STORM MH	252+08 20.2R MAIL BOX	252+30 37.3R MSC SIGN	252+33 50.9R 6" ORNAMENTAL TREE	252+36 72.4R 14" DECID. TREE	252+40 54.9R 8" ORNAMENTAL TREE	252+41 47.3R GATE VALVE	252+42 37.7R STREET SIGN	252+46 59.9R * STUMP	252+51 86.2R 12" FOUR STEM TREE	252+51 72.6R U'ND TELE MARKING	252+51 70.4R TELE MH	252+51 67.7R TELE MH	252+57 73.1R MSC SIGN	252+68 0.3R SECTION CORNER ETI	252+87 51.5R MSC SIGN	252+90 58.7R STORM MH	252+94 45.7R ELECTRIC METER	252+94 44.4R ELEC POLE	253+05 46.8R ROUND CB	253+09 28.6R ELEC POLE	253+12 27.7R MSC SIGN	253+18 23.1R STORM MH	253+49 20.3R MSC SIGN	253+73 50.3R ADVERTISING SIGN
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2021 POSEYVILLE ROAD REHABILITATION
STA 247+00 TO STA 254+00
REMOVAL SHEET

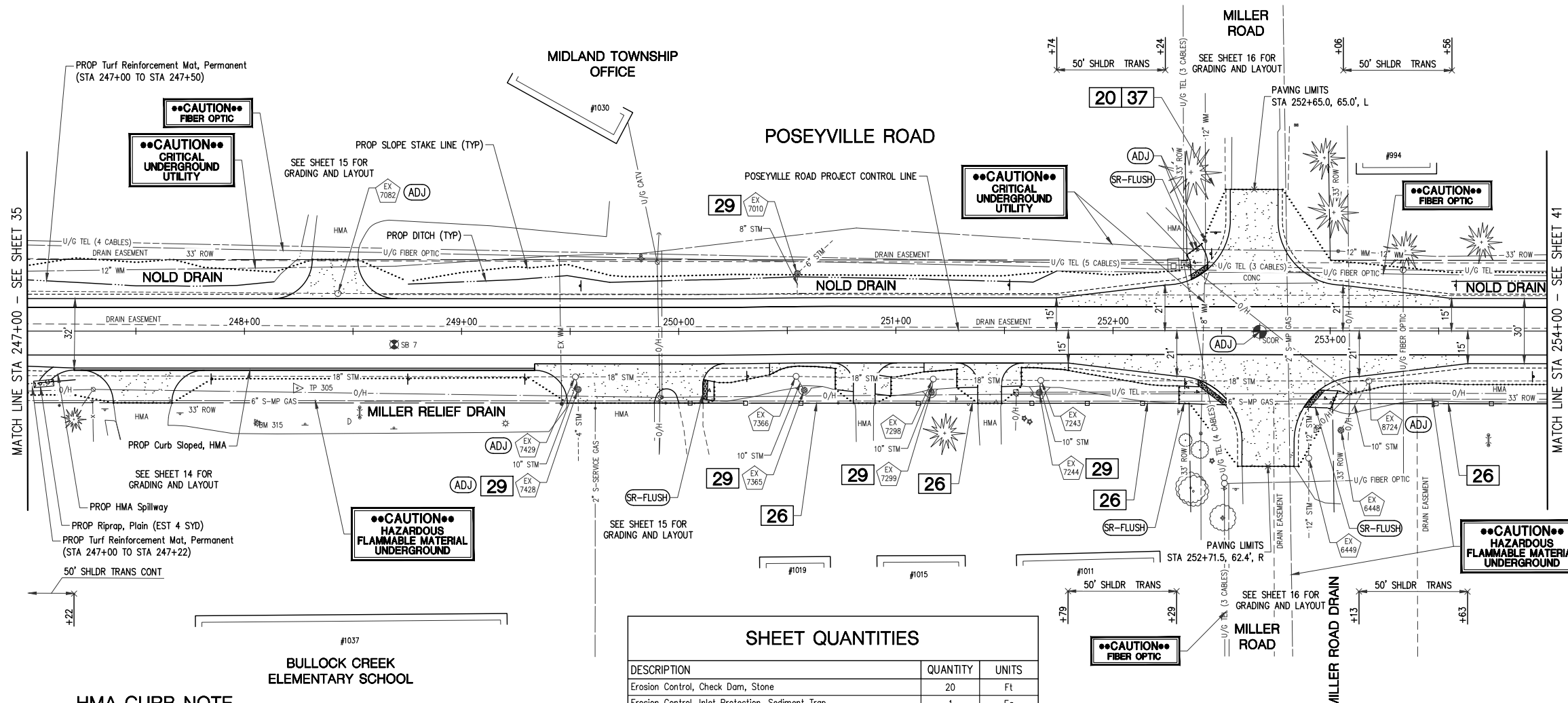
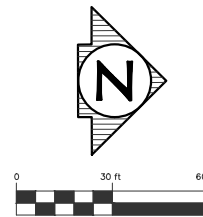
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127 S. Main Street
Mt. Pleasant, MI 48858

PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: 1" = 30'

SHT# 37 of 72
JOB No: 20M0019

DRIVEWAY SCHEDULE							
C/L DRIVEWAY STATION	PROP PVT TYPE	DRIVEWAY OFFSET REMOVAL LIMITS (FT)	WIDTH AT REMOVAL LIMITS (FT)	WIDTH AT OPENING (FT)	LENGTH OF DRIVE RESTORATION (FT)	HMA Approach, Cl I, 6 inch, Modified (Syd)	HMA Approach (Ton)
247+53, RT	HMA	33.0	27.0	57.0	15.0	56	11
248+42, LT	HMA	33.0	21.0	57.0	18.0	58	11
249+69, RT	HMA	33.0	40.0	73.0	18.0	99	18
250+06, RT	HMA	33.0	11.0	31.0	16.0	26	5
250+85, RT	HMA	33.6	10.0	30.0	18.6	26	5
251+43, RT	HMA	33.6	11.0	31.0	18.6	28	5

HMA = HMA DRIVE



HMA CURB NOTE

- HMA CURB HEIGHT TO BE REDUCED TO 1.5" THROUGH DRIVEWAYS (SEE DETAIL ON SHEET 9).

BULLOCK CREEK
ELEMENTARY SCHOOL

SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Erosion Control, Check Dam, Stone	20	Ft
Erosion Control, Inlet Protection, Sediment Trap	1	Ea
Subbase, CIP	451	Cyd
Aggregate Base, 6 inch, Modified	617	Syd
Shoulder, Cl II, 3 inch, Modified	218	Syd
Approach, Cl I, 6 inch, Modified	395	Syd
Dr Structure Cover, Adj, Case 1	3	Ea
Dr Structure Cover, Adj, Case 2	1	Ea
HMA Approach	144	Ton
HMA, LVSP	220	Ton
HMA Spillway	5	Syd
Detectable Warning Surface	39	Ft
Sidewalk Ramp, Conc, 6 inch	406	Sft
Curb Sloped, HMA	212	Ft
Riprap, Plain	4	Syd
Turf Reinforcement Mat, Permanent	48	Syd
Monument Box Adjust	1	Ea
Gate Box, Adj, Case 1	1	Ea
Gate Box, Adj, Case 2	1	Ea



PLAN SUBMITTALS AND CHANGES

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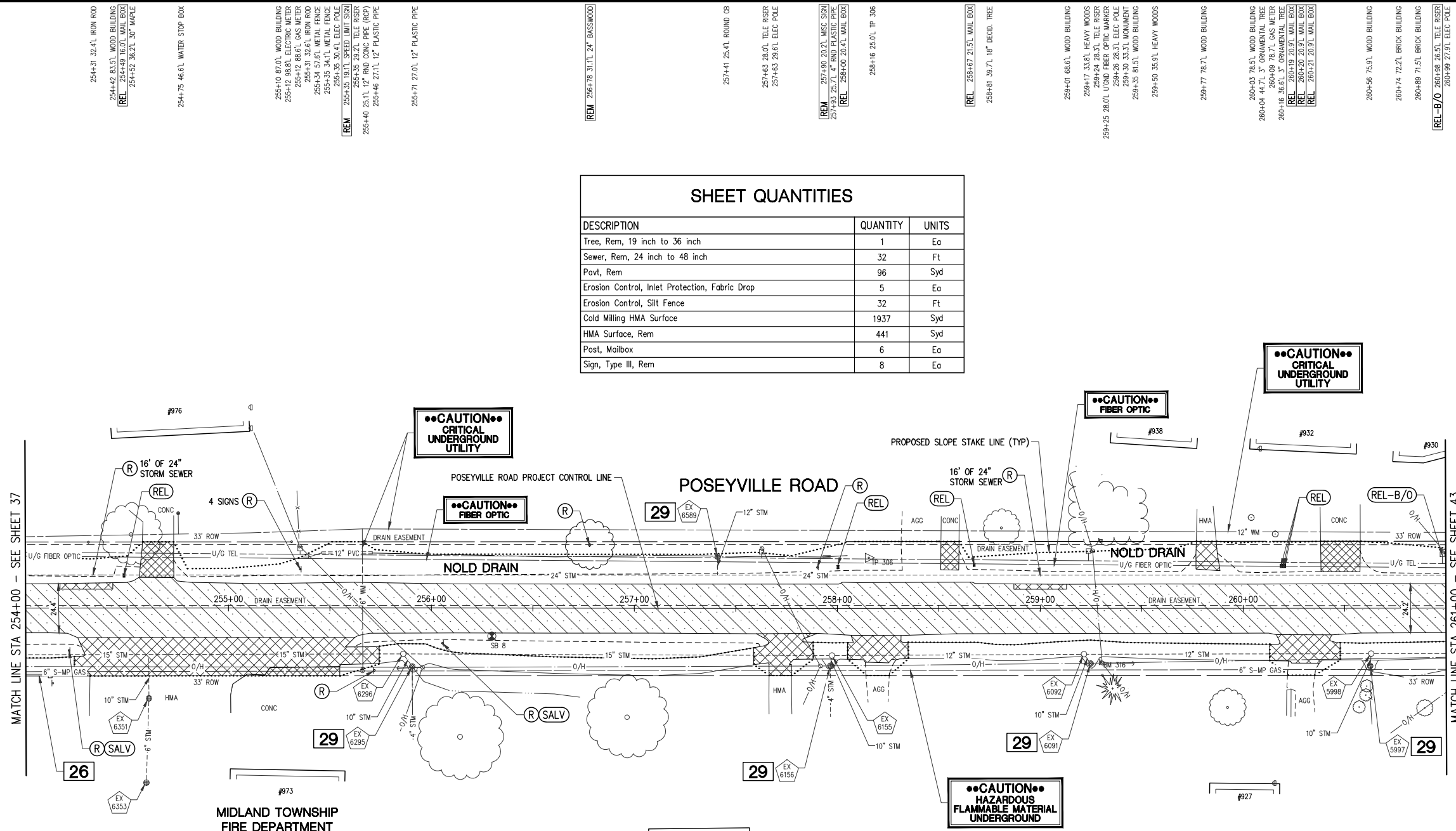
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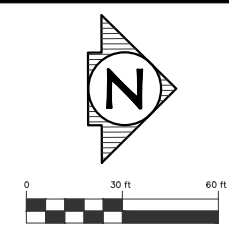
EXISTING STRUCTURES

MH# 5997 TYPE: STORM COVER: BEEHIVE RIM= 625.78 10.0' SLC W INV.=623.78	MH# 6092 TYPE: STORM COVER: SOLID RIM= 626.57 12.0' SLC N INV.=620.82 10.0' SLC E INV.=622.67 12.0' SLC S INV.=620.77	MH# 6295 TYPE: STORM COVER: BEEHIVE RIM= 621.80 4.0' PVC E INV.=620.80 10.0' SLC W INV.=620.00	MH# 6353 TYPE: STORM COVER: FLAT GRATE RIM= 623.46 6.0' PVC W INV.=621.91
MH# 5998 TYPE: STORM COVER: SOLID RIM= 627.15 12.0' SLC N INV.=621.15 10.0' SLC E INV.=622.85 12.0' SLC S INV.=621.15	MH# 6155 TYPE: STORM COVER: SOLID RIM= 625.49 12.0' SLC N INV.=620.49 10.0' SLC E INV.=621.98 15.0' SLC S INV.=620.44	MH# 6296 TYPE: STORM COVER: SOLID RIM= 624.31 15.0' SLC N INV.=620.01 10.0' SLC E INV.=620.16 15.0' SLC S INV.=620.01	MH# 6589 TYPE: STORM COVER: FLAT GRATE RIM= 620.86 12.0' ROP E INV.=618.36
MH# 6091 TYPE: STORM COVER: BEEHIVE RIM= 625.01 10.0' SLC W INV.=622.91	MH# 6156 TYPE: STORM COVER: BEEHIVE RIM= 624.32 10.0' SLC W INV.=622.22 4.0' PVC E INV.=622.82	MH# 6351 TYPE: STORM COVER: FLAT GRATE RIM= 623.45 10.0' SLC W INV.=620.60 6.0' PVC E INV.=620.70	

254+13 37.0' MSC SIGN [REL] 254+21 20.9' MSC SIGN [REL] 254+21 20.9' MSC SIGN [REL] 254+21 20.9' MAIL BOX	254+60 86.1' ROUND CB 254+61 44.3' ROUND CB	255+01 79.2' BRICK BUILDING	255+57 80.3' BRICK BUILDING 255+66 31.1' FIRE HYDRANT 255+66 29.8' GATE VALVE [REM] 255+72 30.8' SPEED LIMIT SIGN	255+83 29.8' GUY WIRE 255+86 22.7' STORM MH 255+91 28.9' ROUND CB 255+96 29.3' ELEC POLE	[REM] 256+05 17.4' MSC SIGN 256+14 63.6' 42" MAPLE 256+30 13.9' SOIL BORING	256+96 53.7' 40" MAPLE	257+92 28.3' ELEC POLE 257+97 28.2' ROUND CB 257+97 23.2' STORM MH	259+22 22.6' STORM MH 259+25 27.2' ROUND CB 259+30 26.5' RM 316 259+31 33.0' IRON PIPE 259+31 26.9' ELEC POLE 259+36 39.4' 16" PNE 259+46 27.1' GUY WIRE	259+63 86.1' WOOD BUILDING 259+92 48.8' 18" APPLE	260+16 86.1' GAS METER 260+18 86.4' WOOD BUILDING	260+57 48.6' 6" APPLE 260+60 42.8' 6" APPLE 260+61 38.3' 6" APPLE 260+63 38.4' ROUND CB 260+63 48.8' POST & RAIL 260+63 57.2' STORM MH 260+63 22.4' STORM MH 260+89 49.2' 8" CRAB APPLE
--	--	-----------------------------	--	---	---	------------------------	--	--	--	--	--

SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Tree, Rem, 19 inch to 36 inch	1	Ea
Sewer, Rem, 24 inch to 48 inch	32	Ft
Pavt, Rem	96	Syd
Erosion Control, Inlet Protection, Fabric Drop	5	Ea
Erosion Control, Silt Fence	32	Ft
Cold Milling HMA Surface	1937	Syd
HMA Surface, Rem	441	Syd
Post, Mailbox	6	Ea
Sign, Type III, Rem	8	Ea



PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: 1" = 30'

ROWE PROFESSIONAL SERVICES COMPANY

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 www.roweps.com

127 S. Main Street
 Mt. Pleasant, MI 48858

**MIDLAND COUNTY ROAD COMMISSION
 2021 POSEYVILLE ROAD REHABILITATION
 REMOVAL SHEET**

STA 254+00 TO STA 261+00

PREPARED FOR

811
 Know what's below.
 Call before you dig.

PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV: _____

SHT# 40 of 72
 JOB No: 20M0019

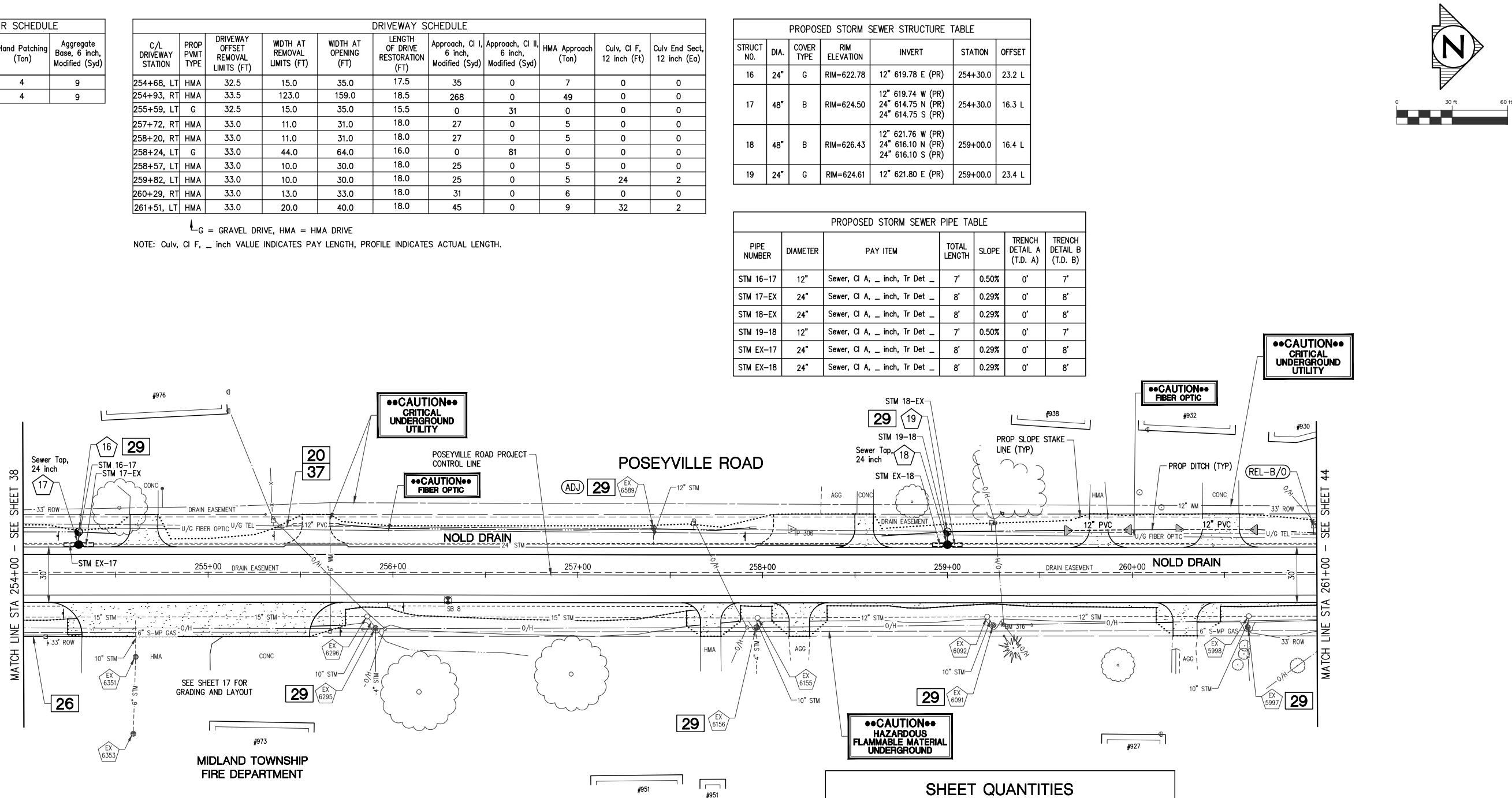
UTILITY ROAD REPAIR SCHEDULE				
STATION	WIDTH OF TRENCH REPAIR (Ft)	LENGTH OF TRENCH REPAIR (Ft)	Hand Patching (Ton)	Aggregate Base, 6 inch, Modified (Syd)
254+30	3	26	4	9
259+00	3	26	4	9

DRIVEWAY SCHEDULE										
C/L DRIVEWAY STATION	PROP P/MT TYPE	DRIVEWAY OFFSET REMOVAL LIMITS (FT)	WIDTH AT REMOVAL LIMITS (FT)	WIDTH AT OPENING (FT)	LENGTH OF DRIVE RESTORATION (FT)	Approach, CI I, 6 inch, Modified (Syd)	Approach, CI II, 6 inch, Modified (Syd)	HMA Approach (Ton)	Culv, CI F, 12 inch (Ft)	Culv End Sect, 12 inch (Ea)
254+68, LT	HMA	32.5	15.0	35.0	17.5	35	0	7	0	0
254+93, RT	HMA	33.5	123.0	159.0	18.5	268	0	49	0	0
255+59, LT	G	32.5	15.0	35.0	15.5	0	31	0	0	0
257+72, RT	HMA	33.0	11.0	31.0	18.0	27	0	5	0	0
258+20, RT	HMA	33.0	11.0	31.0	18.0	27	0	5	0	0
258+24, LT	G	33.0	44.0	64.0	16.0	0	81	0	0	0
258+57, LT	HMA	33.0	10.0	30.0	18.0	25	0	5	0	0
259+82, LT	HMA	33.0	10.0	30.0	18.0	25	0	5	24	2
260+29, RT	HMA	33.0	13.0	33.0	18.0	31	0	6	0	0
261+51, LT	HMA	33.0	20.0	40.0	18.0	45	0	9	32	2

G = GRAVEL DRIVE, HMA = HMA DRIVE
 NOTE: Culv, CI F, _ inch VALUE INDICATES PAY LENGTH, PROFILE INDICATES ACTUAL LENGTH.

PROPOSED STORM SEWER STRUCTURE TABLE						
STRUCT NO.	DIA.	COVER TYPE	RIM ELEVATION	INVERT	STATION	OFFSET
16	24"	G	RIM=622.78	12" 619.78 E (PR)	254+30.0	23.2 L
17	48"	B	RIM=624.50	12" 619.74 W (PR) 24" 614.75 N (PR) 24" 614.75 S (PR)	254+30.0	16.3 L
18	48"	B	RIM=626.43	12" 621.76 W (PR) 24" 616.10 N (PR) 24" 616.10 S (PR)	259+00.0	16.4 L
19	24"	G	RIM=624.61	12" 621.80 E (PR)	259+00.0	23.4 L

PROPOSED STORM SEWER PIPE TABLE						
PIPE NUMBER	DIAMETER	PAY ITEM	TOTAL LENGTH	SLOPE	TRENCH DETAIL A (T.D. A)	TRENCH DETAIL B (T.D. B)
STM 16-17	12"	Sewer, CI A, _ inch, Tr Det _	7'	0.50%	0'	7'
STM 17-EX	24"	Sewer, CI A, _ inch, Tr Det _	8'	0.29%	0'	8'
STM 18-EX	24"	Sewer, CI A, _ inch, Tr Det _	8'	0.29%	0'	8'
STM 19-18	12"	Sewer, CI A, _ inch, Tr Det _	7'	0.50%	0'	7'
STM EX-17	24"	Sewer, CI A, _ inch, Tr Det _	8'	0.29%	0'	8'
STM EX-18	24"	Sewer, CI A, _ inch, Tr Det _	8'	0.29%	0'	8'



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Erosion Control, Check Dam, Stone	20	Ft
Erosion Control, Inlet Protection, Fabric Drop	2	Ea
Erosion Control, Inlet Protection, Sediment Trap	1	Ea
Subbase, CIP	282	Cyd
Aggregate Base, 6 inch, Modified	613	Syd
Approach, CI II, 6 inch, Modified	112	Syd
Shoulder, CI II, 3 inch, Modified	180	Syd
Approach, CI I, 6 inch, Modified	623	Syd
Culv End Sect, 12 inch	4	Ea
Culv, CI F, 12 inch	56	Ft
Sewer, CI A, 12 inch, Tr Det B	14	Ft
Sewer, CI A, 24 inch, Tr Det B	32	Ft
Sewer Tap, 24 inch	2	Ea
Dr Structure Cover, Adj, Case 2	1	Ea
Dr Structure Cover, Type B	2	Ea
Dr Structure Cover, Type G	2	Ea
Dr Structure, 24 inch dia	2	Ea
Dr Structure, 48 inch dia	2	Ea
Dr Structure, Add Depth of 48 inch dia, 8 foot to 15 foot	6	Ft
Dr Structure, Adj, Add Depth	1	Ft
Hand Patching	8	Ton
HMA Approach	117	Ton
HMA, LVSP	248	Ton

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PLAN SUBMITTALS AND CHANGES		REV:
DATE	DESCRIPTION	
3/19/21	ISSUED FOR BIDS	

ROWE PROFESSIONAL SERVICES COMPANY

MIDLAND COUNTY ROAD COMMISSION
 2021 POSEYVILLE ROAD REHABILITATION
 CONSTRUCTION SHEET

STA 254+00 TO STA 261+00

PREPARED FOR: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: 1" = 30'

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SHT# 41 OF 72
 JOB No: 20M0019

261+19 79.1'L BRICK BUILDING

REL 261+55 18.9'L MAIL BOX
261+57 43.0'L FLAG POLE
261+63 31.3'L GATE VALVE
261+63 30.1'L FIRE HYDRANT

262+00 42.3'L 15" PINE
262+05 62.5'L WOOD BUILDING
262+30 62.6'L WOOD BUILDING

REM 262+39 20.4'L TELE. MH
262+44 21.7'L MSG. SIGN
262+52 26.1'L TELE. RISER
262+52 26.6'L ELEC. POLE

REL 262+87 23.7'L NEWSPAPER BOX
REL 262+90 24.3'L MAIL BOX
REL 262+97 14.9'L MAIL BOX
REL 262+97 14.9'L MAIL BOX
REL 262+98 24.5'L MAIL BOX

263+32 30.9'L LIGHT POLE
263+41 38.4'L ROUND CB
263+46 15.6'L STORM MH
REM 263+47 43.3'L MSG. SIGN

REM/SALV 263+80 43.0'L MSG. SIGN
263+80 43.9'L GAS VALVE
263+82 76.4'L 12" METAL PIPE (CMP)
263+85 37.7'L ROUND CB
REL-B/O 263+87 30.4'L TELE. RISER
263+87 32.0'L ELEC. POLE
263+89 41.4'L GATE VALVE
263+93 35.0'L GATE VALVE

264+26 73.9'L WOOD BUILDING

264+61 26.4'L MAIL BOX

264+84 75.1'L WOOD BUILDING

265+11 31.2'L GUY WIRE
265+26 30.3'L TELE. RISER
265+26 31.2'L ELEC. POLE

265+57 29.6'L 0' CONIF. SHRUB
265+58 62.7'L WOOD BUILDING
265+61 26.4'L MAIL BOX

SAVE 265+71 27.2'L MSG. SIGN
265+71 28.1'L 0' CONIF. SHRUB
265+78 29.5'L 0' CONIF. SHRUB
265+85 29.7'L 0' CONIF. SHRUB
265+86 61.7'L WOOD BUILDING
266+37 38.0'L GUY WIRE
266+41 38.6'L 5' DECID. SHRUB
266+42 30.1'L ELEC. POLE
266+44 28.9'L TELE. RISER

266+55 77.9'L WOOD BUILDING

266+83 78.9'L WOOD BUILDING
266+85 43.1'L 12" MAPLE
266+87 26.9'L MAIL BOX

267+22 29.6'L TELE. RISER
267+22 30.8'L ELEC. POLE
267+22 41.6'L 12" PINE
267+29 41.6'L 12" PINE
267+35 30.6'L GUY WIRE

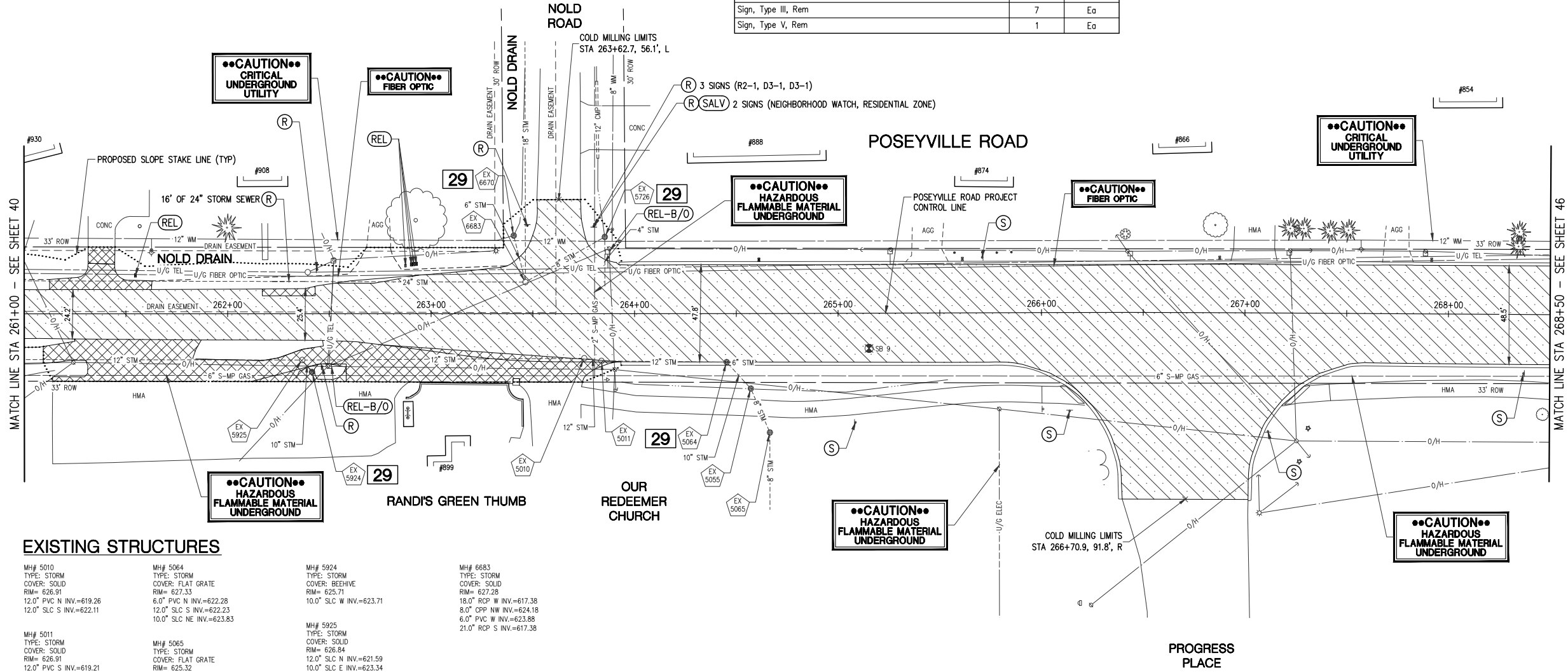
267+42 40.4'L 12" PINE
267+51 40.3'L 12" PINE
267+57 31.6'L FIRE HYDRANT
267+89 30.8'L ELEC. POLE
267+89 29.6'L TELE. RISER
267+92 26.6'L MAIL BOX

268+35 40.6'L 12" PINE
268+34 33.4'L 12" PINE



SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Sewer, Rem, 24 inch to 48 inch	16	Ft
Pavt, Rem	13	Syd
Erosion Control, Inlet Protection, Fabric Drop	4	Ea
Cold Milling HMA Surface	4204	Syd
HMA Surface, Rem	510	Syd
Post, Mailbox	5	Ea
Sign, Type III, Rem	7	Ea
Sign, Type V, Rem	1	Ea



EXISTING STRUCTURES

MH# 5010
TYPE: STORM
COVER: SOLID
RM= 626.91
12.0" PVC N INV.=619.26
12.0" SLC S INV.=622.11

MH# 5064
TYPE: STORM
COVER: FLAT GRATE
RM= 627.33
8.0" PVC N INV.=622.28
12.0" SLC S INV.=622.23
10.0" SLC NE INV.=623.83

MH# 5924
TYPE: STORM
COVER: BEEHIVE
RM= 625.71
10.0" SLC W INV.=623.71

MH# 6683
TYPE: STORM
COVER: SOLID
RM= 627.28
18.0" RCP W INV.=617.38
8.0" CPP NW INV.=624.18
6.0" PVC W INV.=623.88
21.0" RCP S INV.=617.38

MH# 5011
TYPE: STORM
COVER: SOLID
RM= 626.91
12.0" PVC S INV.=619.21
12.0" SLC N INV.=622.11

MH# 5065
TYPE: STORM
COVER: FLAT GRATE
RM= 625.32
8.0" PVC E INV.=623.52
8.0" PVC W INV.=623.52

MH# 5925
TYPE: STORM
COVER: SOLID
RM= 626.84
12.0" SLC N INV.=621.59
10.0" SLC E INV.=623.34
12.0" SLC S INV.=621.54

MH# 5055
TYPE: STORM
COVER: BEEHIVE
RM= 625.25
10.0" SLC SW INV.=623.25
8.0" PVC E INV.=624.45

MH# 5726
TYPE: STORM
COVER: BEEHIVE
RM= 626.14
4.0" CPP E INV.=624.64
8.0" CPP SE INV.=624.54

MH# 6670
TYPE: STORM
COVER: BEEHIVE
RM= 625.13
6.0" PVC E INV.=623.88

261+24 23.8'R ELEC POLE

262+37 22.7'R STORM MH
262+41 28.6'R ROUND CB
262+46 26.0'R MSG. SIGN
262+49 25.9'R ELEC POLE
262+50 25.7'R TELE RISER

REM 262+39 20.4'R MASONRY WALL
262+49 48.8'R ADVERTISING SIGN
REL-B/O

262+98 69.8'R BLOCK BUILDING

263+19 60.0'R BLOCK BUILDING

263+38 63.3'R LANDSCAPING
263+44 61.2'R LANDSCAPING
263+45 42.1'R MASONRY WALL

263+75 21.9'R STORM MH
263+84 33.2'R STORM MH
263+86 32.4'R U/GND GAS MARKING
263+90 27.4'R ELEC POLE
263+91 38.2'R GUY WIRE
263+91 37.4'R GUY WIRE

264+45 23.8'R ROUND CB

264+57 36.8'R ROUND CB

264+66 58.4'R ROUND CB

SAVE 265+08 53.7'R MSG. SIGN
265+15 17.3'R SOIL BORING

265+79 47.3'R ELEC POLE

266+01 47.4'R STOP SIGN

SAVE 266+14 48.4'R STREET SIGN

266+23 68.1'R HEAVY WOODS
266+31 84.7'R HEAVY WOODS

267+07 79.7'R GUY WIRE

267+08 98.2'R LIGHT POLE

SAVE 267+12 58.2'R STOP SIGN

267+21 94.4'R MP 5185

267+26 62.8'R ELEC POLE

267+27 83.6'R GUY WIRE

267+31 56.6'R 1" STUMP

267+32 70.7'R GUY WIRE

SAVE 268+37 29.0'R MSG. SIGN
268+46 49.1'R 6" APPLE

PLAN SUBMITTALS AND CHANGES

DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV:

SHT# 43 OF 72
JOB No: 20M0019

PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
STA 261+00 TO STA 268+50
REMOVAL SHEET

ROWE PROFESSIONAL SERVICES COMPANY

127 S. Main Street
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PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: 1" = 30'



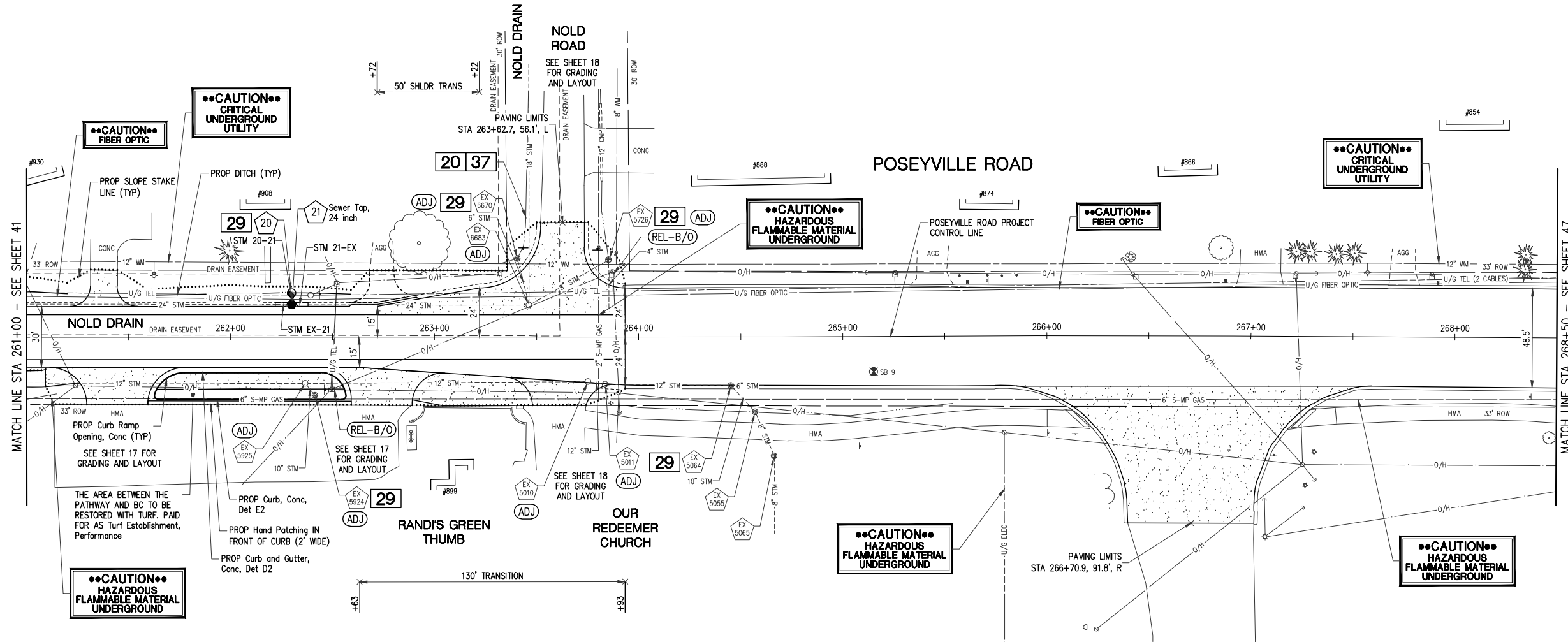
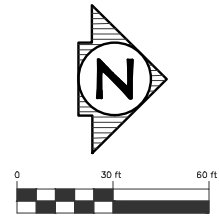
UTILITY ROAD REPAIR SCHEDULE				
STATION	WIDTH OF TRENCH REPAIR (Ft)	LENGTH OF TRENCH REPAIR (Ft)	Hand Patching (Ton)	Aggregate Base, 6 inch, Modified (Syd)
262+30	4	26	5	12

DRIVEWAY SCHEDULE								
C/L DRIVEWAY STATION	PROP PVT TYPE	DRIVEWAY OFFSET REMOVAL LIMITS (FT)	WIDTH AT REMOVAL LIMITS (FT)	WIDTH AT OPENING (FT)	LENGTH OF DRIVE RESTORATION (FT)	Approach, Cl I, 6 inch, Modified (Syd)	Approach, Cl II, 6 inch, Modified (Syd)	HMA Approach (Ton)
261+40, LT	HMA	32.8	13.0	33.0	17.8	31	0	6
261+45, RT	HMA	33.2	30.0	66.0	18.2	77	0	14
262+74, LT	G	32.6	12.0	34.0	15.6	0	27	0
262+74, RT	HMA	33.5	30.0	61.2	18.5	73	0	14
263+61, RT	HMA	33.6	26.3	53.6	12.2	45	0	9

↑ G = GRAVEL DRIVE, HMA = HMA DRIVE

PROPOSED STORM SEWER PIPE TABLE							
PIPE NUMBER	DIAMETER	PAY ITEM	TOTAL LENGTH	SLOPE	TRENCH DETAIL A (T.D. A)	TRENCH DETAIL B (T.D. B)	
STM 20-21	12"	Sewer, Cl A, 12 inch, Tr Det	6'	0.50%	0'	6'	
STM 21-EX	24"	Sewer, Cl A, 24 inch, Tr Det	8'	0.29%	0'	8'	
STM EX-21	24"	Sewer, Cl A, 24 inch, Tr Det	8'	0.29%	0'	8'	

PROPOSED STORM SEWER STRUCTURE TABLE						
STRUCT NO.	DIA.	COVER TYPE	RIM ELEVATION	INVERT	STATION	OFFSET
20	24"	G	RIM=626.78	12" 623.75 E (PR)	262+30.0	21.5 L
21	48"	B	RIM=627.46	24" 617.05 N (PR) 24" 617.04 S (PR) 12" 623.72 W (PR)	262+30.0	15.9 L



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Erosion Control, Inlet Protection, Fabric Drop	1	Ea
Subbase, CIP	159	Cyd
Aggregate Base, 6 inch, Modified	290	Syd
Approach, Cl I, 6 inch, Modified	27	Syd
Shoulder, Cl II, 3 inch, Modified	68	Syd
Approach, Cl I, 6 inch, Modified	401	Syd
Sewer, Cl A, 12 inch, Tr Det B	6	Ft
Sewer, Cl A, 24 inch, Tr Det B	16	Ft
Sewer Tap, 24 inch	1	Ea
Dr Structure Cover, Adj, Case 1	4	Ea
Dr Structure Cover, Adj, Case 2	3	Ea

SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Dr Structure Cover, Type B	1	Ea
Dr Structure Cover, Type G	1	Ea
Dr Structure, 24 inch dia	1	Ea
Dr Structure, 48 inch dia	1	Ea
Dr Structure, Add Depth of 48 inch dia, 8 foot to 15 foot	4	Ft
Hand Patching	11	Ton
HMA Approach	158	Ton
HMA, LVSP	319	Ton
Curb, Conc, Det E2	100	Ft
Curb and Gutter, Conc, Det B2	72	Ft
Curb Ramp Opening, Conc	46	Ft

PROGRESS PLACE



PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
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 SCALE: 1" = 30'

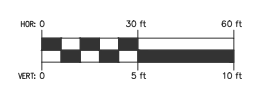
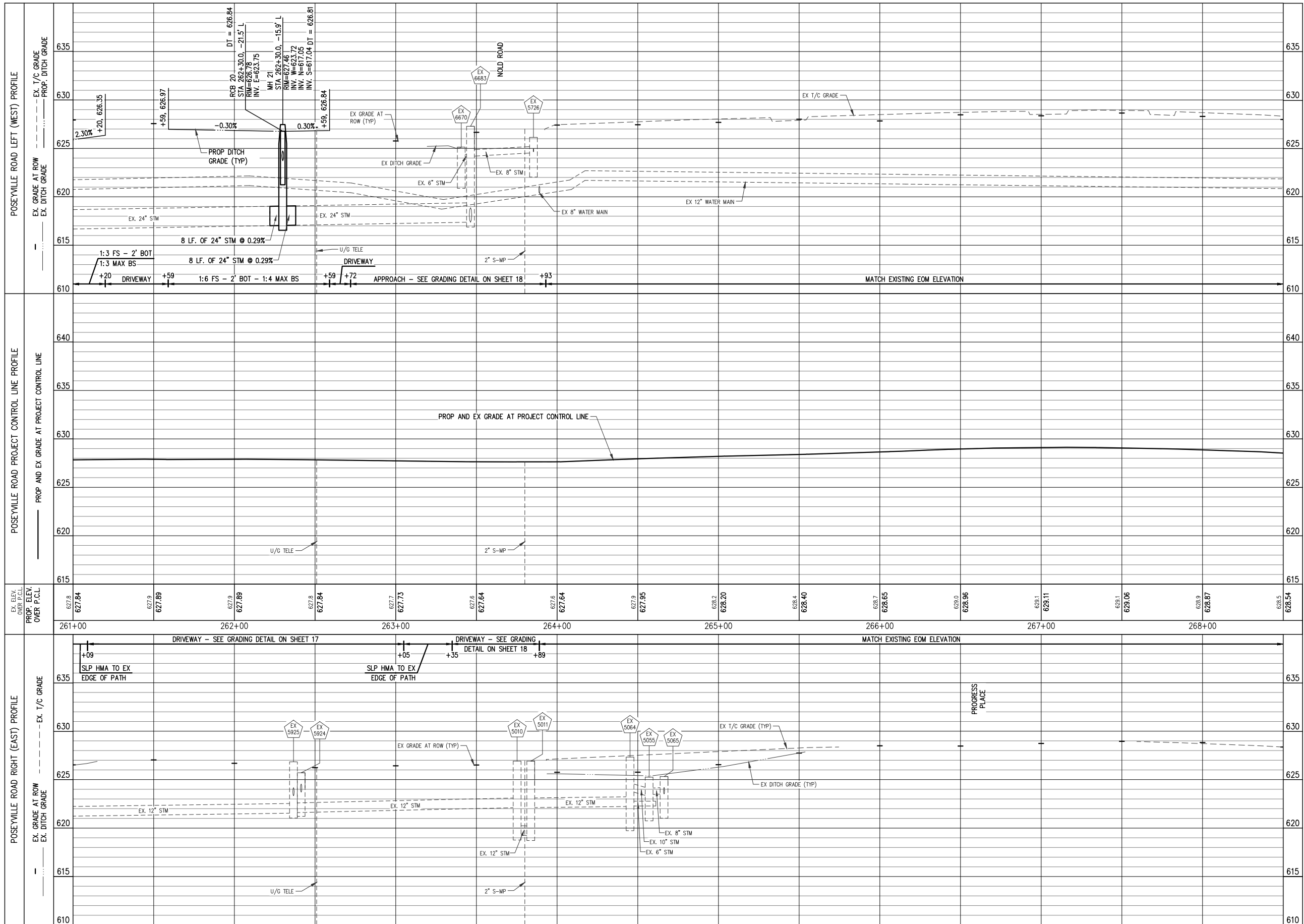
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PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STA 261+00 TO STA 268+50
 CONSTRUCTION SHEET

REV: _____
 SHT# 44 OF 72
 JOB No: 20M0019

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PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

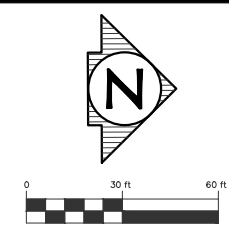
REV: _____
 SHT# 45 OF 72
 JOB No: 20M0019

PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: HORZ: 1"=30', VERT: 1"=5'

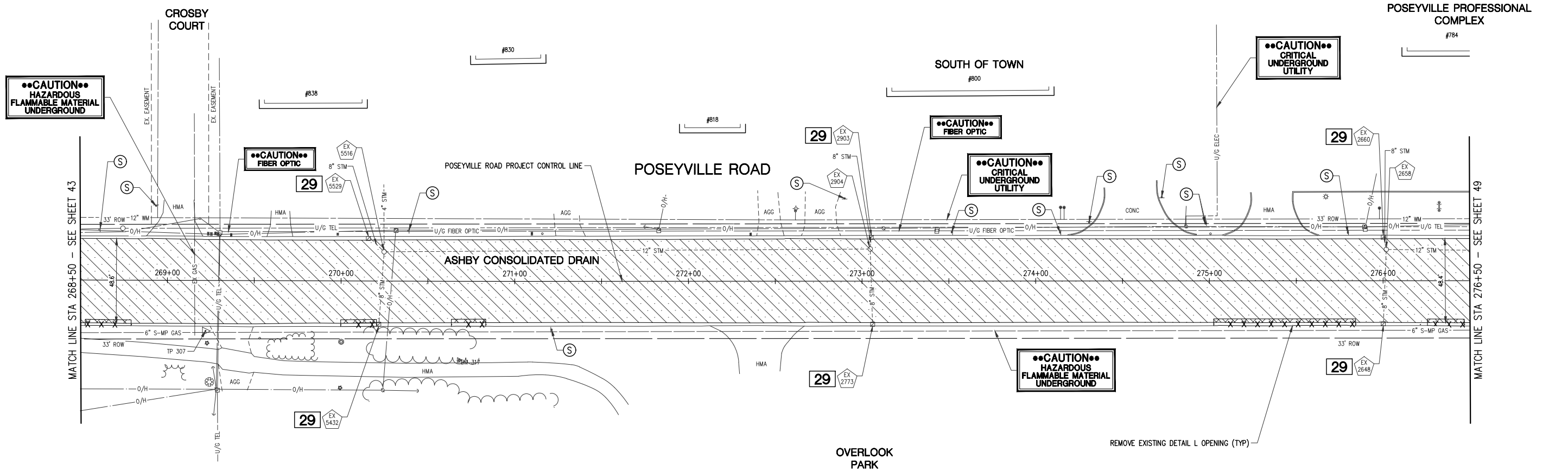
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MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STA 261+00 TO STA 268+50
 PROFILE SHEET

- SAVE 268+61 20.1'L MISC SIGN
- 268+74 29.9'L TELE MH
- SAVE 268+93 42.9'L STOP SIGN
- 269+19 35.6'L U/CND FIBER OPTIC MARKER
- 269+22 26.9'L MAIL BOX
- 269+25 26.9'L MAIL BOX
- 269+28 27.1'L MAIL BOX
- 269+29 26.7'L MAIL BOX
- 269+30 26.5'L ELEC POLE
- 269+30 27.5'L TELE RISER
- 269+37 26.2'L MAIL BOX
- 269+53 99.1'L WOOD BUILDING
- 269+88 27.1'L MAIL BOX
- 270+15 99.4'L WOOD BUILDING
- 270+16 26.7'L CURB INLET B/C
- 270+25 16.8'L STORM MH
- 270+31 29.3'L ELEC POLE
- 270+32 29.0'L TELE RISER
- 270+39 29.0'L MISC SIGN
- 271+10 27.4'L MAIL BOX
- 271+16 27.4'L WOOD POST
- 271+10 27.4'L MAIL BOX
- 271+16 27.4'L WOOD POST
- 271+74 31.5'L GUY WIRE
- 271+83 30.0'L TELE RISER
- 271+83 30.0'L ELEC POLE
- 271+95 85.4'L WOOD BUILDING
- 272+33 85.4'L WOOD BUILDING
- 272+36 26.9'L MAIL BOX
- 272+62 40.5'L GATE VALVE
- 272+62 41.8'L FIRE HYDRANT
- SAVE 272+99 47.7'L MISC SIGN
- 273+05 18.5'L STORM MH
- 273+05 26.4'L CURB INLET B/C
- 273+12 30.4'L ELEC POLE
- 273+43 28.6'L TELE RISER
- 273+43 29.8'L TELE RISER
- SAVE 273+52 28.2'L MISC SIGN
- 274+14 42.4'L WATER STOP BOX
- SAVE 274+14 27.9'L MISC SIGN
- 274+16 42.3'L WATER STOP BOX
- SAVE 274+31 33.8'L MISC SIGN
- SAVE 274+73 48.2'L MISC SIGN
- 274+87 31.4'L ELEC POLE
- 274+98 33.1'L IRON PIPE
- SAVE 274+98 33.2'L MISC SIGN
- 275+01 27.1'L MISC POST
- 275+67 48.4'L LIGHT POLE
- SAVE 275+80 27.6'L MISC SIGN
- 275+89 31.0'L TELE RISER
- 275+90 29.6'L TELE RISER
- 275+98 41.9'L WATER STOP BOX
- 276+00 26.3'L CURB INLET B/C
- 276+02 16.0'L STORM MH
- 276+32 42.7'L ADVERTISING SIGN



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Curb and Gutter, Rem	170	Ft
Erosion Control, Inlet Protection, Fabric Drop	6	Ea
Cold Milling HMA Surface	4277	Syd
HMA Surface, Rem	39	Syd



EXISTING STRUCTURES

- MH# 2648
TYPE: STORM
COVER: CURB INLET
RIM= 614.69
8.0" RCP W INV.=611.19
- MH# 2658
TYPE: STORM
COVER: SOLID
RIM= 615.03
- MH# 2660
TYPE: STORM
COVER: CURB INLET
RIM= 614.68
8.0" RCP E INV.=611.38
- MH# 2773
TYPE: STORM
COVER: CURB INLET
RIM= 621.73
8.0" RCP W INV.=618.43
- MH# 2903
TYPE: STORM
COVER: CURB INLET
RIM= 621.58
8.0" RCP E INV.=618.58
- MH# 2904
TYPE: STORM
COVER: SOLID
RIM= 621.85
- MH# 5432
TYPE: STORM
COVER: CURB INLET
RIM= 625.83
8.0" RCP W INV.=622.23
- MH# 5516
TYPE: STORM
COVER: SOLID
RIM= 626.22
12.0" RCP N INV.=619.52
8.0" RCP E INV.=620.42
8.0" RCP SW INV.=621.42
4.0" PVC W INV.=620.52
- MH# 5529
TYPE: STORM
COVER: CURB INLET
RIM= 625.94
8.0" RCP NE INV.=622.54

- 268+97 55.8'R BRUSH AREA
- 269+11 57.4'R BRUSH AREA
- 269+22 29.0'R TP 307
- 269+23 36.0'R * STUMP
- 269+24 58.4'R 5' DECID. SHRUB
- 269+26 49.7'R GUY WIRE
- 269+27 77.6'R GUY WIRE
- 269+28 62.6'R ELEC POLE
- 269+29 63.2'R TELE RISER
- 269+53 33.0'R METAL POST
- 269+59 35.7'R BRUSH AREA
- 269+83 43.3'R BRUSH AREA
- 270+00 61.6'R * STUMP
- 270+00 35.1'R 3' DECID. SHRUB
- 270+17 61.0'R HEAVY WOODS
- 270+22 61.3'R HEAVY WOODS
- 270+24 62.9'R ELEC POLE
- 270+45 63.2'R GUY WIRE
- 270+68 45.2'R BM 317
- 270+68 45.6'R U/CND ELEC MARKING
- 270+74 70.1'R HEAVY WOODS
- 271+01 37.8'R MISC SIGN SAVE
- 271+23 72.5'R HEAVY WOODS
- 273+06 26.0'R CURB INLET B/C

PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: 1" = 30'

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PREPARED FOR
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2021 POSEYVILLE ROAD REHABILITATION
STA 268+50 TO STA 276+50
REMOVAL SHEET

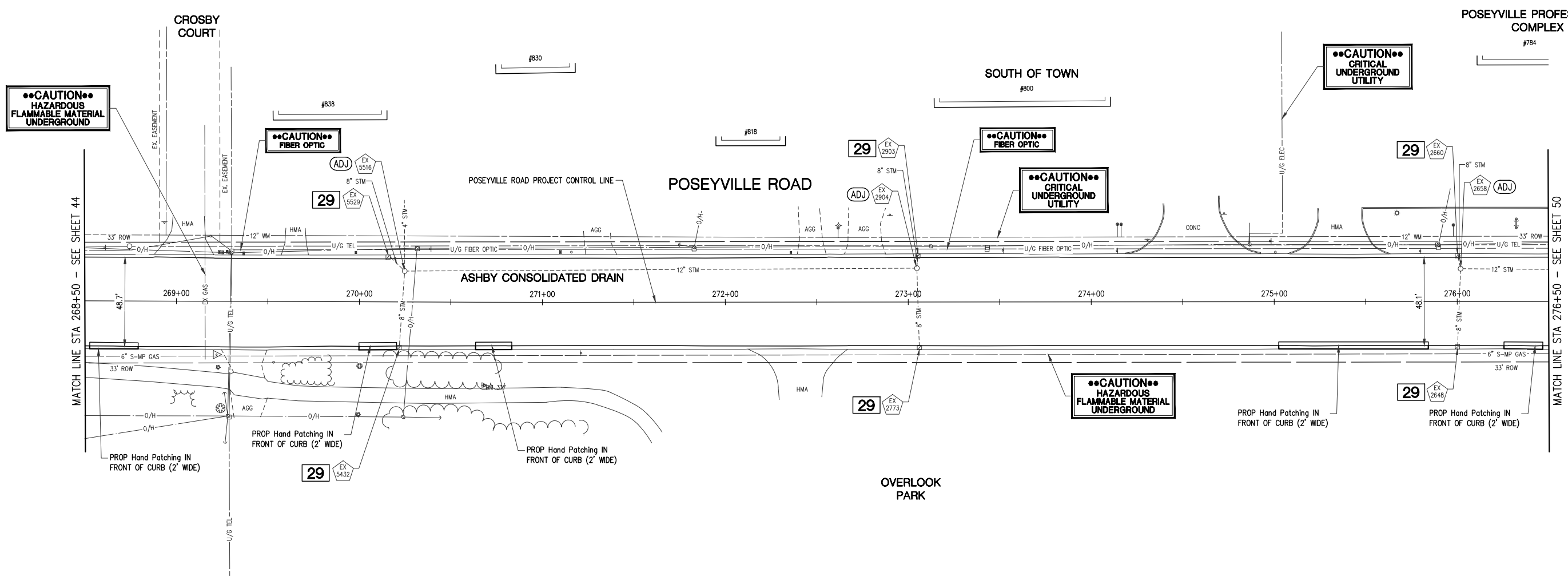
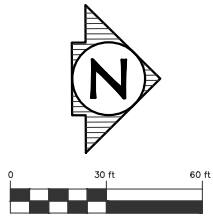
811
Know what's below.
Call before you dig.

PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV: _____

SHT# 46 of 72
JOB No: 20M0019

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MATCH LINE STA 268+50 - SEE SHEET 44

MATCH LINE STA 276+50 - SEE SHEET 50

SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Dr Structure Cover, Adj, Case 1	3	Ea
Hand Patching	24	Ton
HMA, LVSP	389	Ton
Curb and Gutter, Conc, Det F4	170	Ft



PLAN SUBMITTALS AND CHANGES		REV:
BIDDING DOCUMENTS		
DATE	DESCRIPTION	
3/19/21	ISSUED FOR BIDS	

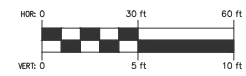
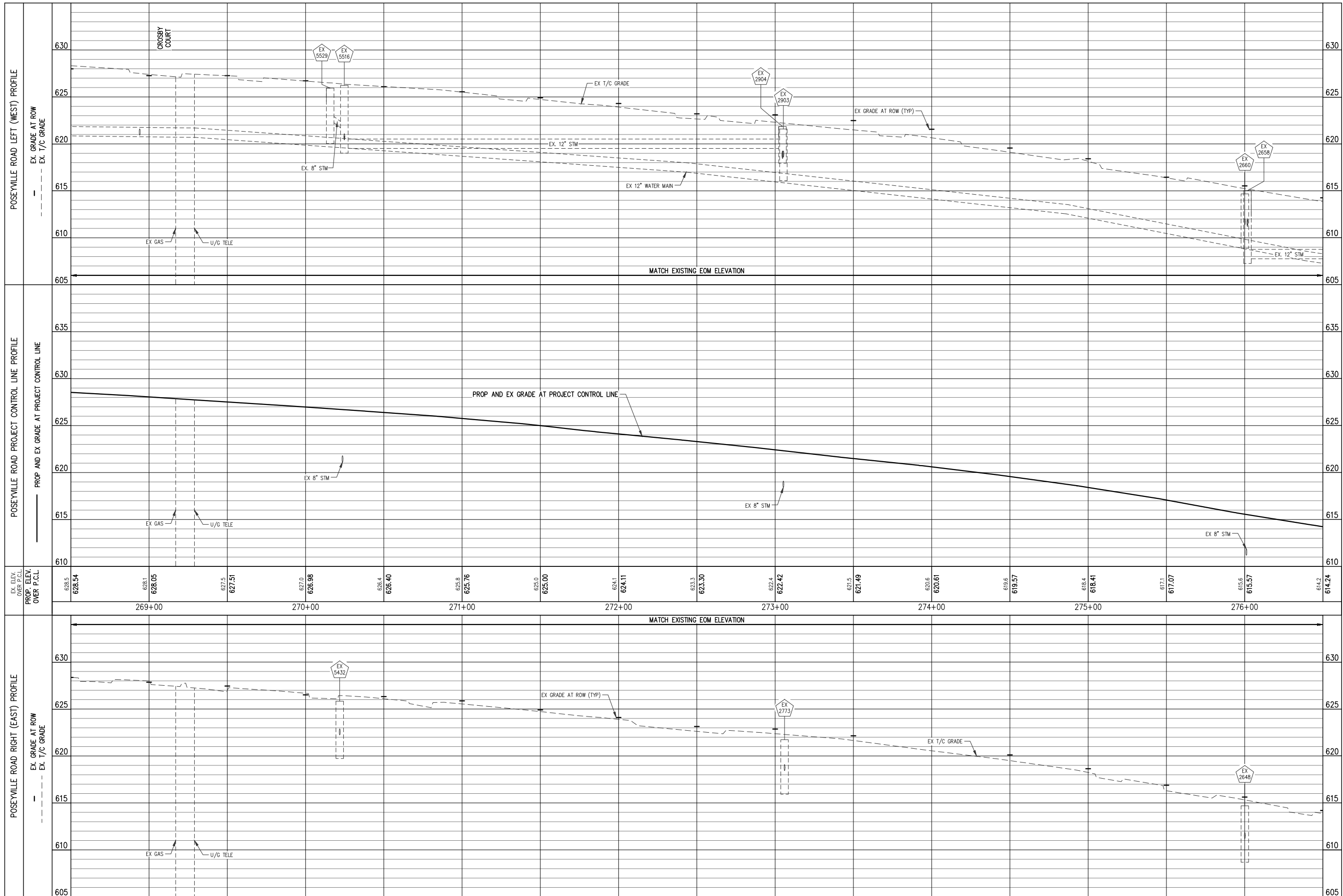
PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
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 CONSTRUCTION SHEET
 STA 268+50 TO STA 276+50

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PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: 1" = 30'

STA 268+50 TO STA 276+50
 CONSTRUCTION SHEET

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PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV: _____
 SHT# 48 OF 72
 JOB No: 20M0019

ROWE PROFESSIONAL SERVICES COMPANY
 127 S. Main Street
 Mt. Pleasant, MI 48858

PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: HORZ: 1"=30', VERT: 1"=5'

PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STA 268+50 TO STA 276+50
 PROFILE SHEET

SAVE 276+55 285'1" MISC SIGN

276+78 21.31 SOIL BORING
276+83 46.81 LIGHT POLE

277+04 50.71 CURB INLET B/C

277+21 16.91 STORM MH

277+47 42.71 MISC POST
277+47 40.81 FIRE HYDRANT

277+55 34.31 ELEC POLE
277+57 29.41 ELEC POLE
277+58 43.31 ROUND CB
277+69 27.21 MAIL BOX
277+75 31.71 TELE MH

278+47 62.61 BLOCK BUILDING

278+73 37.31 GATE VALVE
278+73 37.31 GATE VALVE
278+80 29.41 TELE RISER
278+80 30.41 ELEC POLE

278+90 38.21 MISC POST
279+06 33.91 STORM MH
279+07 15.01 STORM MH

279+46 80.61 MISC POST
279+52 34.81 CONCRETE POST

279+62 29.91 TP 308

279+86 66.31 WOOD BUILDING

280+04 30.21 ELEC POLE
280+04 29.61 TELE RISER

280+12 31.01 GUY WIRE
280+14 28.01 MAIL BOX

280+61 66.91 WOOD BUILDING

281+37 18.01 STORM MH
281+37 46.41 SQUARE CB

281+95 31.41 GUY WIRE
282+03 30.71 ELEC POLE
282+03 29.91 TELE RISER
282+13 86.61 WOOD BUILDING
282+24 28.11 MAIL BOX

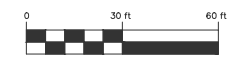
282+48 40.11 MON WELL
282+57 98.41 WOOD BUILDING

282+80 64.21 BLOCK BUILDING

283+07 40.61 MON WELL
283+12 44.91 LIGHT POLE

283+40 63.01 ELECTRIC METER

283+67 78.81 BLOCK BUILDING
283+70 29.21 TELE RISER
283+70 29.91 ELEC POLE
283+71 31.11 MAIL BOX
283+83 27.31 MAIL BOX



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Dr Structure, Rem	1	Eo
Sewer, Rem, Less than 24 inch	42	Ft
Curb and Gutter, Rem	10	Ft
Erosion Control, Inlet Protection, Fabric Drop	3	Eo
Cold Milling HMA Surface	4107	Syd
HMA Surface, Rem	50	Syd

REMOVAL NOTE

DO NOT IMPACT THE EXISTING TRAFFIC LOOPS AT ASHBY ROAD.

POSEYVILLE PROFESSIONAL COMPLEX #784

ASHBY ROAD

CAUTION CRITICAL UNDERGROUND UTILITY

TED'S HOME AND LAWN EQUIPMENT #756

29 EX 2429

COLD MILLING LIMITS STA 279+25.4, 36.8', L

POSEYVILLE PARTY STORE #742

POSEYVILLE ROAD

CAUTION CRITICAL UNDERGROUND UTILITY

CAUTION CRITICAL UNDERGROUND UTILITY

MCLAUGHLIN'S #708

ASHBY CONSOLIDATED DRAIN

ASHBY-HARDY OUTLET DRAIN

CAUTION HAZARDOUS FLAMMABLE MATERIAL UNDERGROUND

CAUTION HAZARDOUS FLAMMABLE MATERIAL UNDERGROUND

CAUTION HAZARDOUS FLAMMABLE MATERIAL UNDERGROUND

CAUTION HAZARDOUS FLAMMABLE MATERIAL UNDERGROUND

MATCH LINE STA 276+50 - SEE SHEET 46

MATCH LINE STA 284+00 - SEE SHEET 52

EXISTING STRUCTURES

- MH# 2213
TYPE: STORM
COVER: BEEHIVE
RIM= 608.96
8.0" VCP S INV.=605.16
- MH# 2229
TYPE: STORM
COVER: FLAT GRATE
RIM= 607.69
6.0" VCP N INV.=604.84
18.0" RCP N INV.=601.59
8.0" VCP NE INV.=601.89
18.0" VCP S INV.=601.69
- MH# 2280
TYPE: STORM
COVER: SOLID
RIM= 608.72
42.0" RCP N INV.=601.27
6.0" PVC W INV.=602.72
42.0" RCP S INV.=601.32
- MH# 2292
TYPE: STORM
COVER: BEEHIVE
RIM= 609.26
6.0" PVC E INV.=604.76
- MH# 2349
TYPE: STORM
COVER: SOLID
RIM= 609.22
6.0" CPP S INV.=601.22
6.0" CPP E INV.=601.22
- MH# 2350
TYPE: STORM
COVER: FLAT GRATE
RIM= 608.26
18.0" SLC SE INV.=604.51
18.0" RCP N INV.=604.56
- MH# 2400
TYPE: STORM
COVER: CURB INLET
RIM= 609.42
8.0" RCP W INV.=605.92
- MH# 2429
TYPE: STORM
COVER: CURB INLET
RIM= 609.14
12.0" RCP S INV.=605.64
6.0" PVC NE INV.=606.64
- MH# 2452
TYPE: STORM
COVER: CURB INLET
RIM= 609.16
12.0" RCP N INV.=606.36
- MH# 2400
TYPE: STORM
COVER: BEEHIVE
RIM= 610.08
42.0" RCP N INV.=601.58
8.0" PVC E INV.=604.23
12.0" RCP S INV.=604.23
30.0" RCP W INV.=603.43
- MH# 2429
TYPE: STORM
COVER: SOLID
RIM= 612.07
10.0" RCP W INV.=608.67
12.0" RCP S INV.=607.77
12.0" RCP N INV.=607.67
- MH# 2550
TYPE: STORM
COVER: BEEHIVE
RIM= 610.17
8.0" RCP E INV.=607.17
- MH# 2599
TYPE: STORM
COVER: SOLID
RIM= 612.07
10.0" RCP W INV.=608.67
12.0" RCP S INV.=607.77
12.0" RCP N INV.=607.67
- MH# 2613
TYPE: STORM
COVER: CURB INLET
RIM= 612.20
8.0" VCP N INV.=609.20
8.0" VCP W INV.=609.20
- MH# 2728
TYPE: STORM
COVER: SOLID
RIM= 609.83
30.0" RCP W INV.=603.83
12.0" RCP N INV.=604.03
12.0" PVC S INV.=604.03
30.0" RCP E INV.=603.83
- MH# 2730
TYPE: STORM
COVER: SOLID
RIM= 609.83
30.0" RCP W INV.=603.83
12.0" RCP N INV.=604.03
12.0" PVC S INV.=604.03
30.0" RCP E INV.=603.83

REU
279+08 26.1' CURB INLET B/C
279+19 37.5' MISC SIGN
279+20 0.0' 1/4 CORNER E/O

SAVE
279+46 27.5' ELEC POLE
279+46 28.8' BM 316
279+55 35.9' GUY WIRE
279+62 38.1' SQUARE CB

279+82 48.8' STORM MH
280+02 40.0' TELE RISER

282+48 36.2' ROUND CB

283+03 46.7' ROUND CB

PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV: SHT# 49 of 72
JOB No: 20M0019

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PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
STA 276+50 TO STA 284+00
REMOVAL SHEET

PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: 1" = 30'

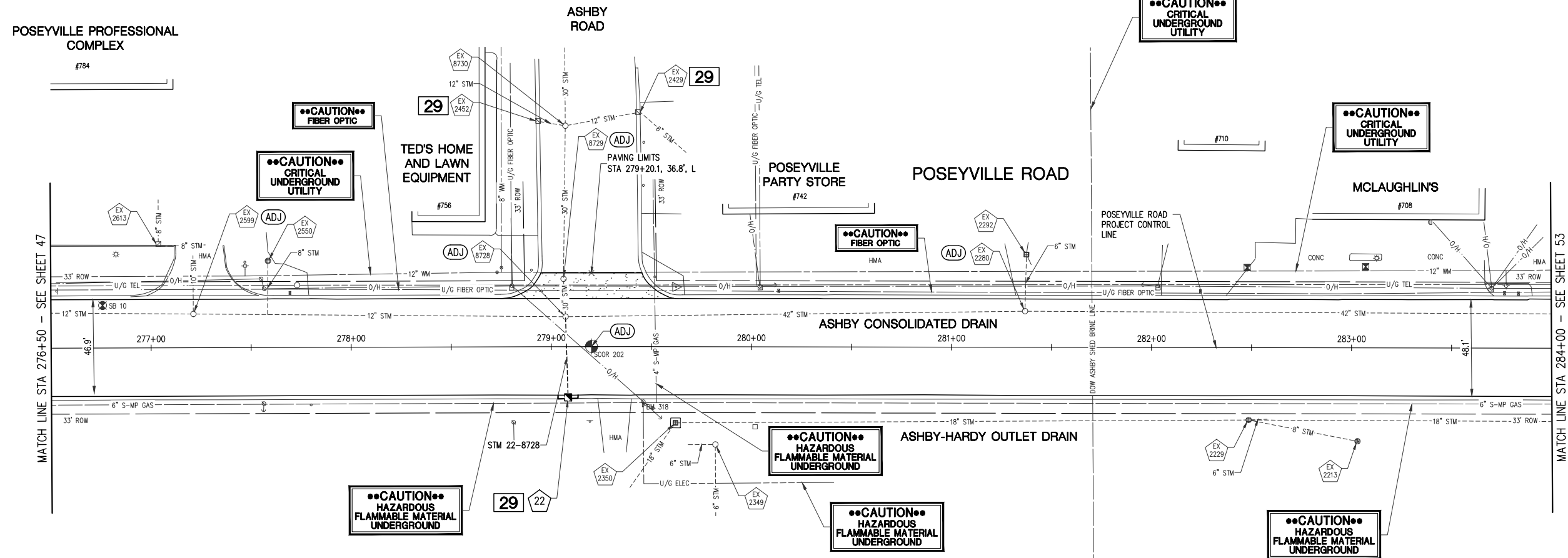
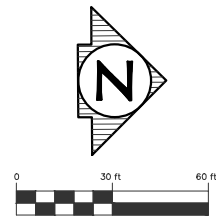


UTILITY ROAD REPAIR SCHEDULE				
STATION	WIDTH OF TRENCH REPAIR (Ft)	LENGTH OF TRENCH REPAIR (Ft)	Hand Patching (Ton)	Aggregate Base, 6 inch, Modified (Syd)
279+08	44.2	10	21	50

PROPOSED STORM SEWER STRUCTURE TABLE						
STRUCT NO.	DIA.	COVER TYPE	RIM ELEVATION	INVERT	STATION	OFFSET
22	48"	K	T/C=610.00	12" 605.05 W (PR)	279+08.4	26.1 R
EX 8728	N/A	N/A	RIM=610.02	12" 604.23 E (PR) 12" 604.23 S (EX) 30" 603.43 W (EX) 42" 601.58 N (EX)	279+07.2	15.0 L

Dr Structure Top, 12 inch (EX 8728)

PROPOSED STORM SEWER PIPE TABLE						
PIPE NUMBER	DIAMETER	PAY ITEM	TOTAL LENGTH	SLOPE	TRENCH DETAIL A (T.D. A)	TRENCH DETAIL B (T.D. B)
STM 22-8728	12"	Sewer, CI A, 12 inch, Tr Det B	41'	2.00%	0'	41'



CONSTRUCTION NOTE

DO NOT IMPACT THE EXISTING TRAFFIC LOOPS AT ASHBY ROAD.

SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Erosion Control, Inlet Protection, Fabric Drop	1	Ea
Aggregate Base, 6 inch, Modified	50	Syd
Sewer, CI A, 12 inch, Tr Det B	41	Ft
Dr Structure Cover, Adj, Case 1	4	Ea
Dr Structure Cover, Type K	1	Ea
Dr Structure, 48 inch dia	1	Ea
Dr Structure, Top, 12 inch	1	Ea
Hand Patching	21	Ton
HMA Approach	8	Ton
HMA, LVSP	365	Ton
Curb and Gutter, Conc, Det F4	10	Ft
Monument Box Adjust	1	Ea



PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS		REV:
DATE	DESCRIPTION	
3/19/21	ISSUED FOR BIDS	

PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: 1" = 30'

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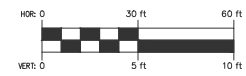
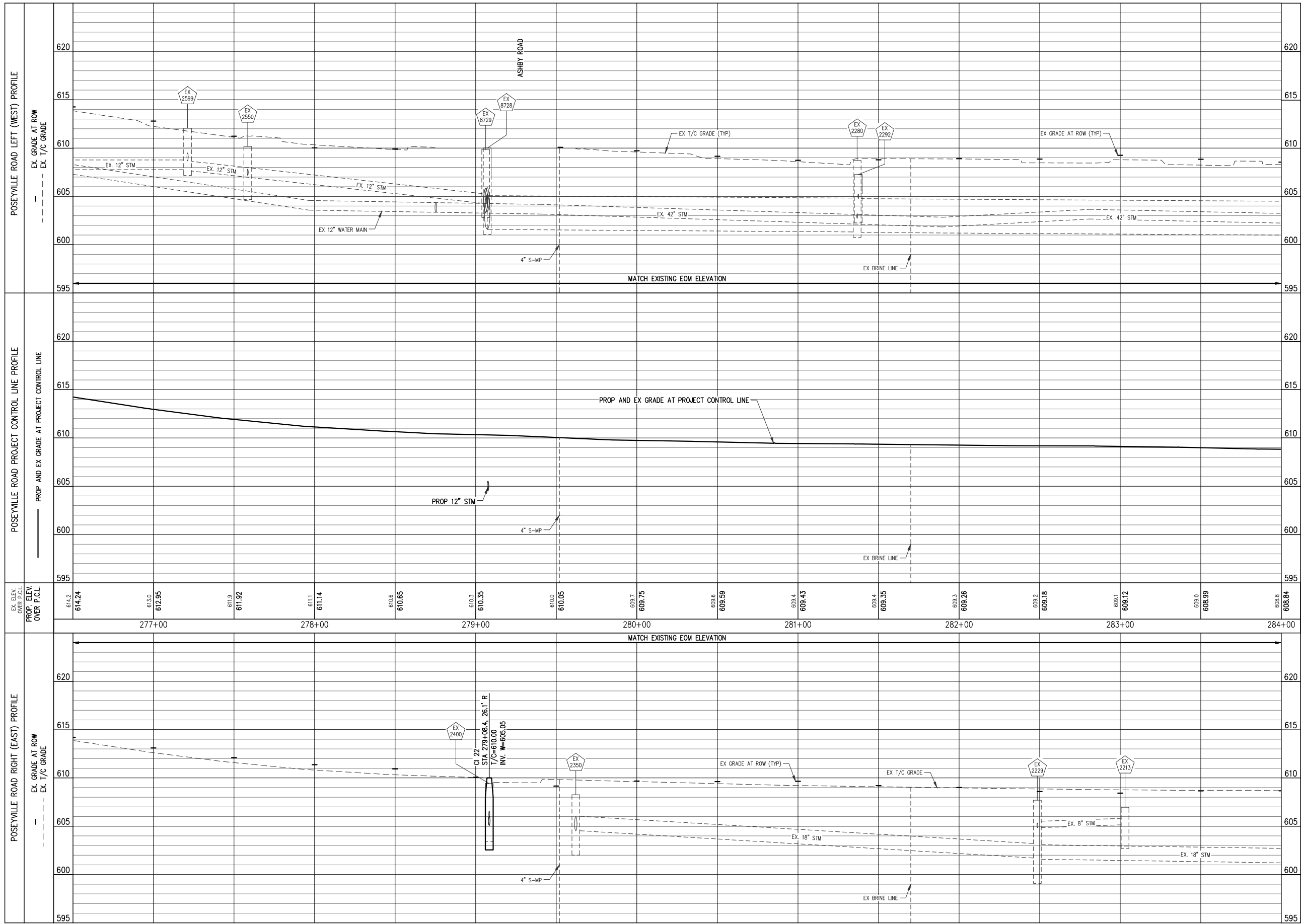
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 STA 276+50 TO STA 284+00
CONSTRUCTION SHEET

SHT# 50 OF 72
 JOB No: 20M0019

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PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

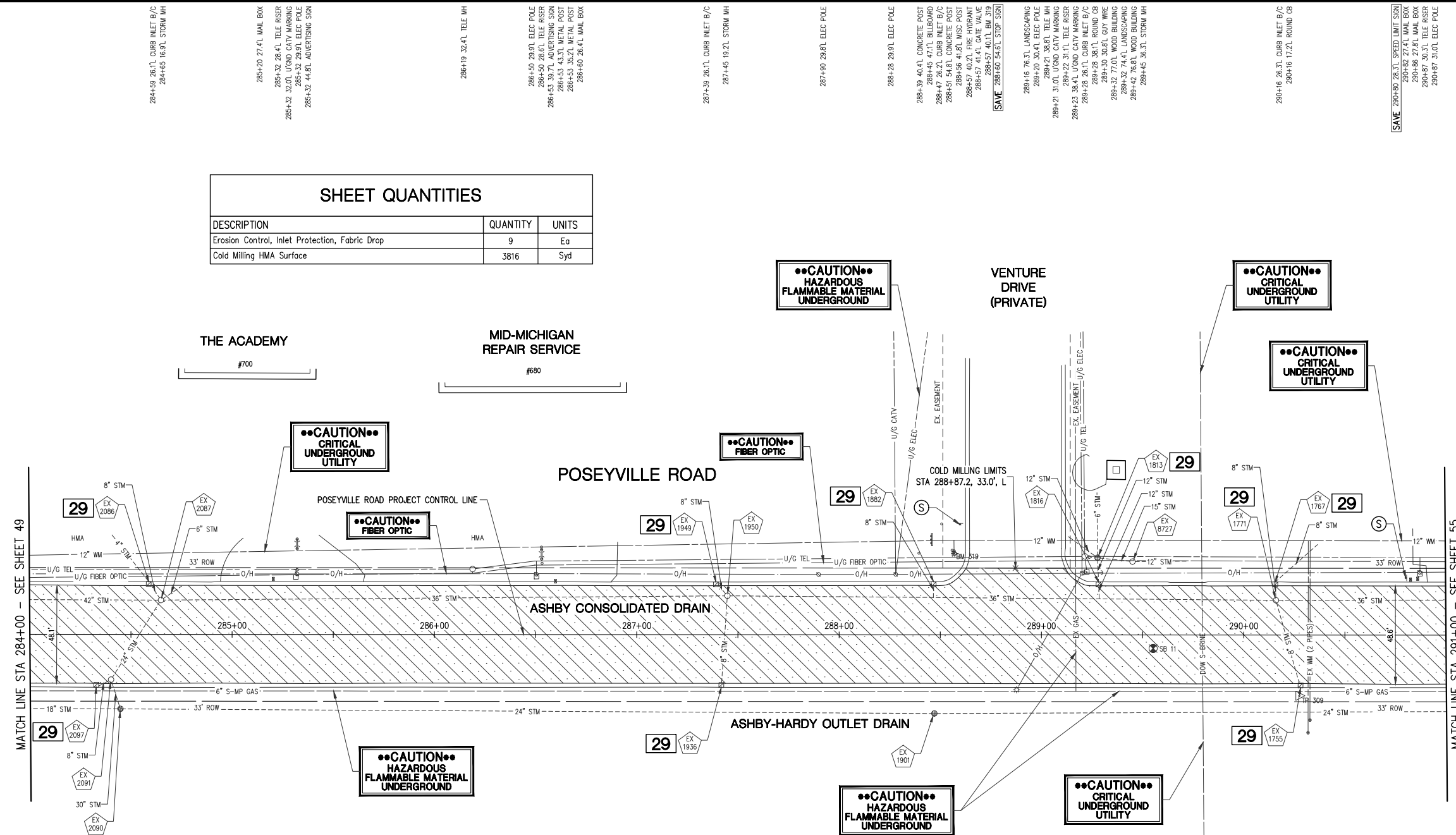
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 SHT# 51 OF 72
 JOB No: 20M0019

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2021 POSEYVILLE ROAD REHABILITATION
 STA 276+50 TO STA 284+00
 PROFILE SHEET

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PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: HORZ: 1"=30', VERT: 1"=5'

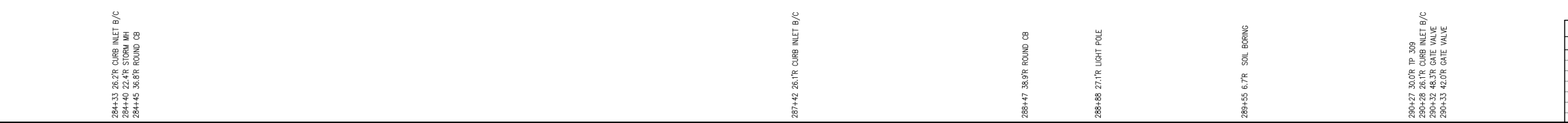
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SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Erosion Control, Inlet Protection, Fabric Drop	9	Ea
Cold Milling HMA Surface	3816	Syd

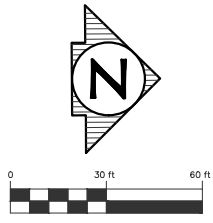
EXISTING STRUCTURES

MH# 1755 TYPE: STORM COVER: CURB INLET RIM= 607.47 8.0" RCP W INV.=604.17	MH# 1813 TYPE: STORM COVER: FLAT GRATE RIM= 607.87 12.0" RCP SW INV.=603.12 6.0" PVC W INV.=604.42 12.0" PVC E INV.=602.92 15.0" SLC N INV.=603.22	MH# 1901 TYPE: STORM COVER: FLAT GRATE RIM= 607.28 24.0" RCP N INV.=599.58 24.0" RCP S INV.=599.58	MH# 1950 TYPE: STORM COVER: SOLID RIM= 607.91 36.0" RCP N INV.=600.51 8.0" PVC E INV.=602.41 8.0" PVC W INV.=604.31 36.0" RCP S INV.=600.46	MH# 2090 TYPE: STORM COVER: FLAT GRATE RIM= 607.80 24.0" RCP W INV.=600.90 30.0" RCP W INV.=600.50 18.0" RCP S INV.=601.10
MH# 1767 TYPE: STORM COVER: CURB INLET RIM= 607.51 8.0" PVC E INV.=603.61 8.0" RCP NW INV.=604.01	MH# 1816 TYPE: STORM COVER: CURB INLET RIM= 607.54 12.0" PVC W INV.=601.79 12.0" PVC E INV.=601.79	MH# 1936 TYPE: STORM COVER: CURB INLET RIM= 607.72 8.0" RCP W INV.=604.22	MH# 2086 TYPE: STORM COVER: CURB INLET RIM= 608.07 4.0" CPP SW INV.=605.07 8.0" PVC E INV.=604.72	MH# 2091 TYPE: STORM COVER: SOLID RIM= 608.25 24.0" RCP NW INV.=601.10 30.0" RCP E INV.=601.00 8.0" RCP S INV.=604.25
MH# 1771 TYPE: STORM COVER: SOLID RIM= 607.74 36.0" RCP N INV.=600.19 8.0" PVC E INV.=602.99 8.0" PVC W INV.=602.99 36.0" RCP S INV.=600.19	MH# 1882 TYPE: STORM COVER: CURB INLET RIM= 607.64 8.0" PVC E INV.=603.64	MH# 1949 TYPE: STORM COVER: CURB INLET RIM= 607.71 8.0" PVC E INV.=604.21	MH# 2087 TYPE: STORM COVER: SOLID RIM= 608.38 6.0" CPP NW INV.=601.88 36.0" RCP N INV.=600.88 8.0" PVC W INV.=604.38 24.0" RCP SE INV.=601.03 42.0" RCP S INV.=600.93	MH# 8727 TYPE: STORM COVER: SOLID RIM= 608.49 12.0" SLC N INV.=604.59 15.0" SLC S INV.=603.19



PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV: _____
 SHT# 52 OF 72
 JOB No: 20M0019



PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: 1" = 30'

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2021 POSEYVILLE ROAD REHABILITATION
 STA 284+00 TO STA 291+00
 REMOVAL SHEET



291+42 81.5'L BRICK BUILDING

291+82 82.6'L BRICK BUILDING

292+52 15.6'L STORM MH
292+56 30.4'L ELEC POLE
292+56 29.7'L TELE POLE

292+70 31.3'L GUY WIRE

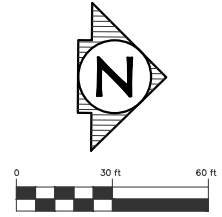
292+90 51.8'L ROUND CB
292+93 34.9'L TELE MARKER POST

293+28 34.0'L TELE MH

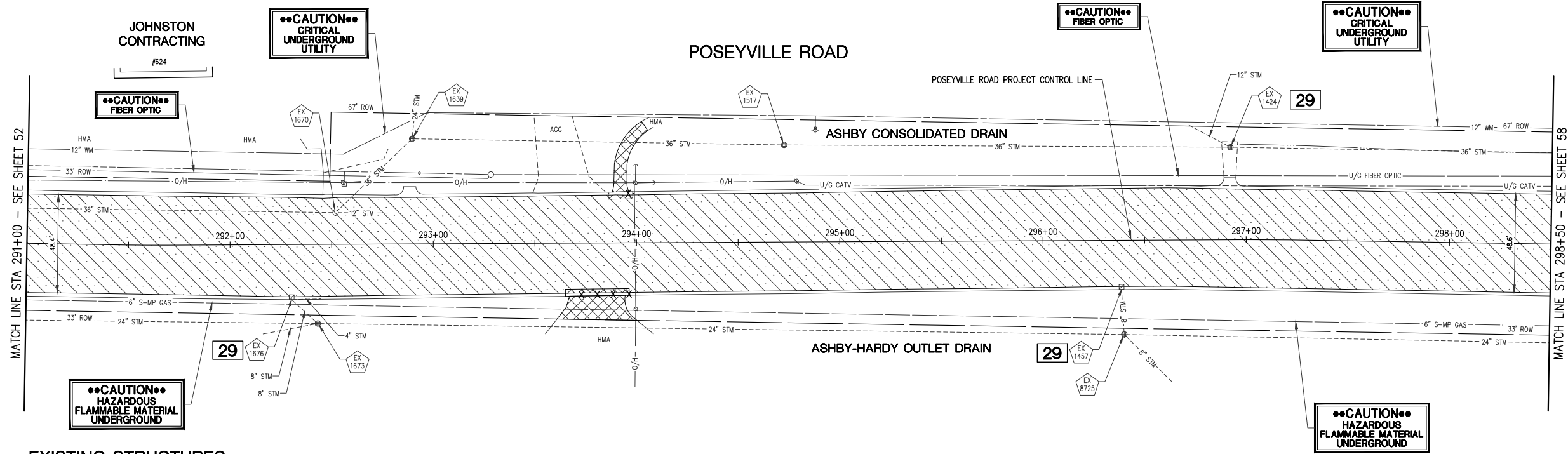
294+00 29.5'L ELEC POLE
294+00 38.7'L GUY WIRE
294+09 29.6'L GUY WIRE

294+73 47.8'L ROUND CB
294+79 30.0'L ELEC POLE
294+88 54.9'L FIRE HYDRANT
294+88 55.9'L GATE VALVE

296+92 45.5'L ROUND CB



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Curb and Gutter, Rem	44	Ft
Erosion Control, Inlet Protection, Fabric Drop	3	Ea
Cold Milling HMA Surface	4027	Syd
HMA Surface, Rem	85	Syd



EXISTING STRUCTURES

- MH# 1424
TYPE: STORM
COVER: BEEHIVE
RIM= 604.92
12.0\"/>
- MH# 1457
TYPE: STORM
COVER: CURB INLET
RIM= 607.64
8.0\"/>
- MH# 1517
TYPE: STORM
COVER: BEEHIVE
RIM= 604.75
36.0\"/>
- MH# 1639
TYPE: STORM
COVER: BEEHIVE
RIM= 606.22
36.0\"/>
- MH# 1670
TYPE: STORM
COVER: SOLID
RIM= 607.30
12.0\"/>
- MH# 1673
TYPE: STORM
COVER: FLAT GRATE
RIM= 607.04
8.0\"/>
- MH# 1676
TYPE: STORM
COVER: CURB INLET
RIM= 607.11
4.0\"/>
- MH# 8725
TYPE: STORM
COVER: FLAT GRATE
RIM= 606.70
8.0\"/>

292+30 27.1'R CURB INLET B/C

292+43 39.0'R ROUND CB

293+99 32.6'R ELEC POLE

296+39 24.1'R CURB INLET B/C
296+40 46.4'R ROUND CB



PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: 1" = 30'

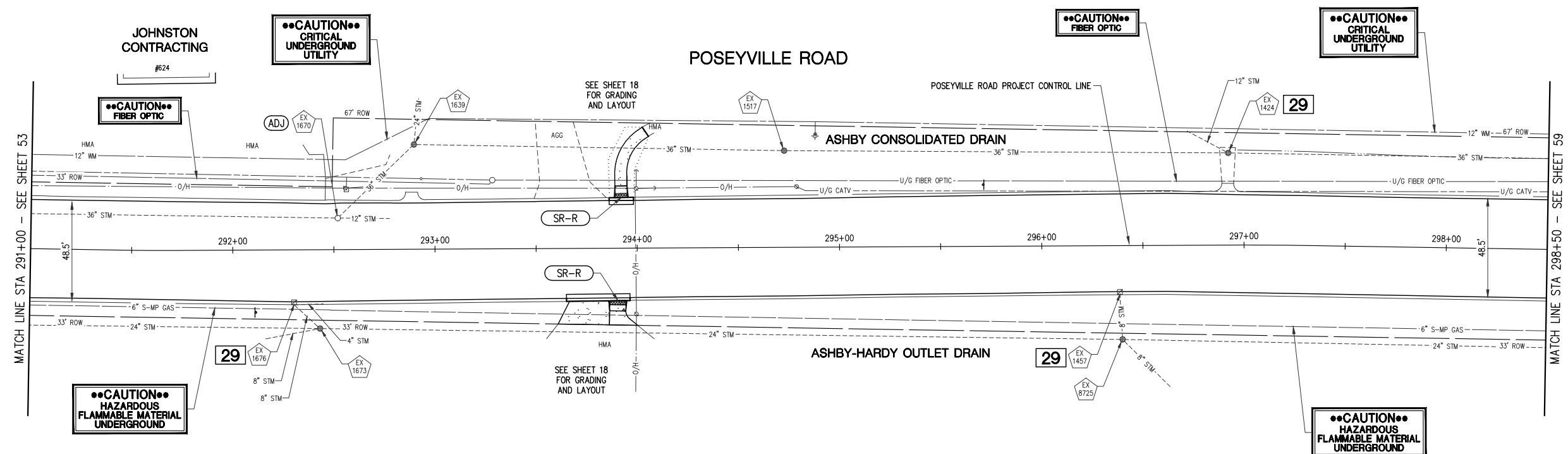
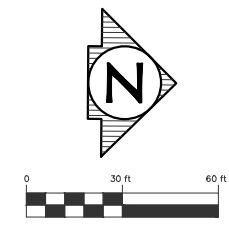
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PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STA 291+00 TO STA 298+50
 REMOVAL SHEET

SHT# 55 OF 72
 JOB No: 20M0019



JOHNSTON CONTRACTING
#624

CAUTION
CRITICAL UNDERGROUND UTILITY

CAUTION
FIBER OPTIC

CAUTION
CRITICAL UNDERGROUND UTILITY

CAUTION
HAZARDOUS FLAMMABLE MATERIAL UNDERGROUND

CAUTION
HAZARDOUS FLAMMABLE MATERIAL UNDERGROUND

DRIVEWAY SCHEDULE						
C/L DRIVEWAY STATION	PROP P/MT TYPE	DRIVEWAY OFFSET REMOVAL LIMITS (FT)	WIDTH AT REMOVAL LIMITS (FT)	WIDTH AT OPENING (FT)	LENGTH OF DRIVE RESTORATION (FT)	Approach, Cl 1, 6 inch, Modified (Syd) HMA Approach (Ton)
293+75, RT	HMA	37.6	25.3	19.4	11.5	30 6

HMA = HMA DRIVE

SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Approach, Cl 1, 6 inch, Modified	70	Syd
Dr Structure Cover, Adj, Case 1	1	Ea
Hand Patching	6	Ton
HMA Approach	10	Ton
HMA, LVSP	366	Ton
Curb and Gutter, Conc, Det F4	22	Ft
Detectable Warning Surface	14	Ft
Curb Ramp Opening, Conc	22	Ft
Sidewalk Ramp, Conc, 6 inch	151	Sft



Know what's below.
Call before you dig.

PLAN SUBMITTALS AND CHANGES		REV:
BIDDING DOCUMENTS		
DATE	DESCRIPTION	
3/19/21	ISSUED FOR BIDS	

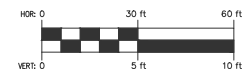
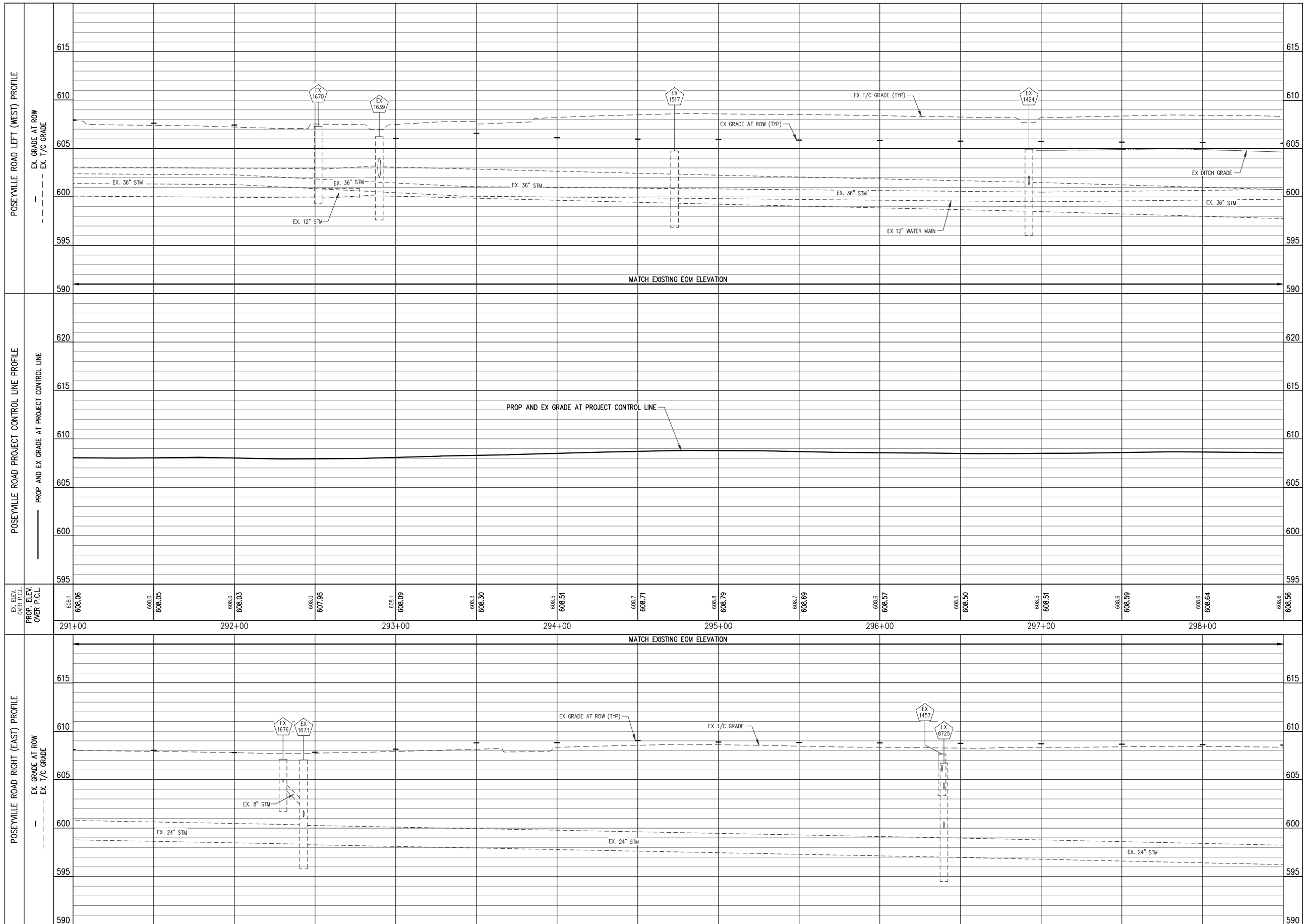
PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: 1" = 30'

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PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
STA 291+00 TO STA 298+50
CONSTRUCTION SHEET

SHT# 56 OF 72
JOB No: 20M0019



PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV: _____
 SHT# 57 OF 72
 JOB No: 20M0019

ROWE PROFESSIONAL SERVICES COMPANY
 127 S. Main Street
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PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: HORZ: 1"=30', VERT: 1"=5'

PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STA 291+00 TO STA 298+50
 PROFILE SHEET

299+31 44.8' ROUND CB

300+63 49.9' 36" RND METAL PIPE (CMP)

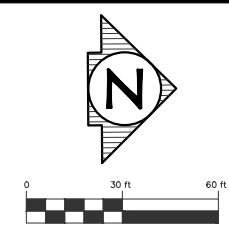
301+52 52.0' MASONRY WALL
301+56 52.7' BILLBOARD
301+58 63.2' BILLBOARD
301+60 63.2' MASONRY WALL

302+14 38.8' TELE MH
302+21 6.4' SOIL BORING
302+22 42.6' TELE RISER

302+74 48.9' ROUND CB

304+48 53.4' TELE RISER

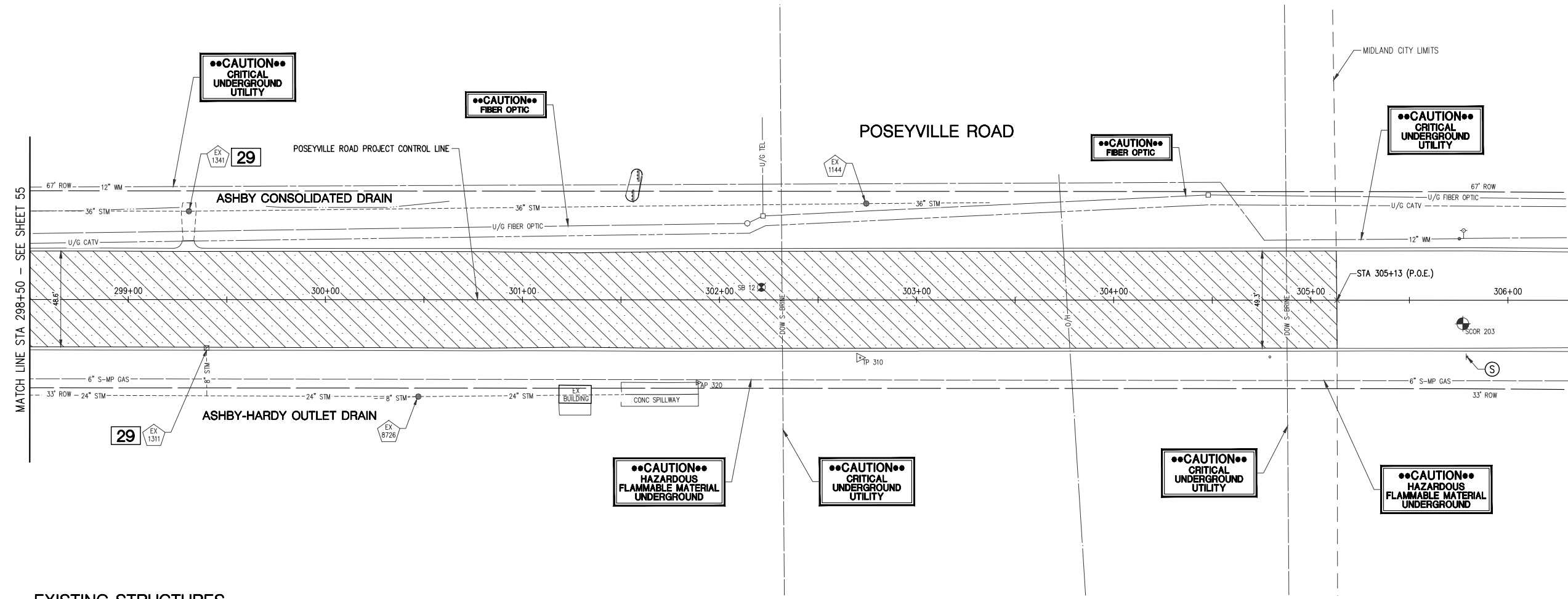
306+75 31.2' GATE VALVE
306+78 35.4' FIRE HYDRANT



SHEET QUANTITIES		
DESCRIPTION	QUANTITY	UNITS
Erosion Control, Inlet Protection, Fabric Drop	2	Ea
Cold Milling HMA Surface	3607	Syd
HMA Surface, Rem	184	Syd

REMOVAL NOTE

EXISTING HMA CURB ON THE EAST SIDE OF POSEYVILLE ROAD TO BE REMOVED 4 FOOT WIDE AS DIRECTED BY THE ENGINEER. PAID FOR HMA Surface, Rem.



EXISTING STRUCTURES

- | | | | |
|---|--|---|--|
| M# 1144
TYPE: STORM
COVER: BEEHIVE
RIM= 604.58
36.0" RCP N INV.=595.38
36.0" RCP S INV.=595.58 | M# 1311
TYPE: STORM
COVER: CURB INLET
RIM= 607.65
8.0" SLC E INV.=605.85 | M# 1341
TYPE: STORM
COVER: BEEHIVE
RIM= 603.77
36.0" RCP N INV.=597.37
36.0" RCP S INV.=597.37 | M# 8726
TYPE: STORM
COVER: FLAT GRATE
RIM= 607.41
24.0" RCP N INV.=595.51
8.0" PVC S INV.=603.71
24.0" RCP S INV.=595.51 |
|---|--|---|--|

299+40 25.8' CURB INLET B/C

300+47 49.2' ROUND CB

301+19 43.3' BLOCK BUILDING

301+35 43.5' BLOCK BUILDING

301+35 52.6' BLOCK BUILDING

301+89 42.0' BM 320

302+71 29.4' TP 310

304+79 28.8' METAL POST



305+77 11.8' SECTION CORNER EA
305+79 28.7' MISC SIGN - SAFE

PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV:

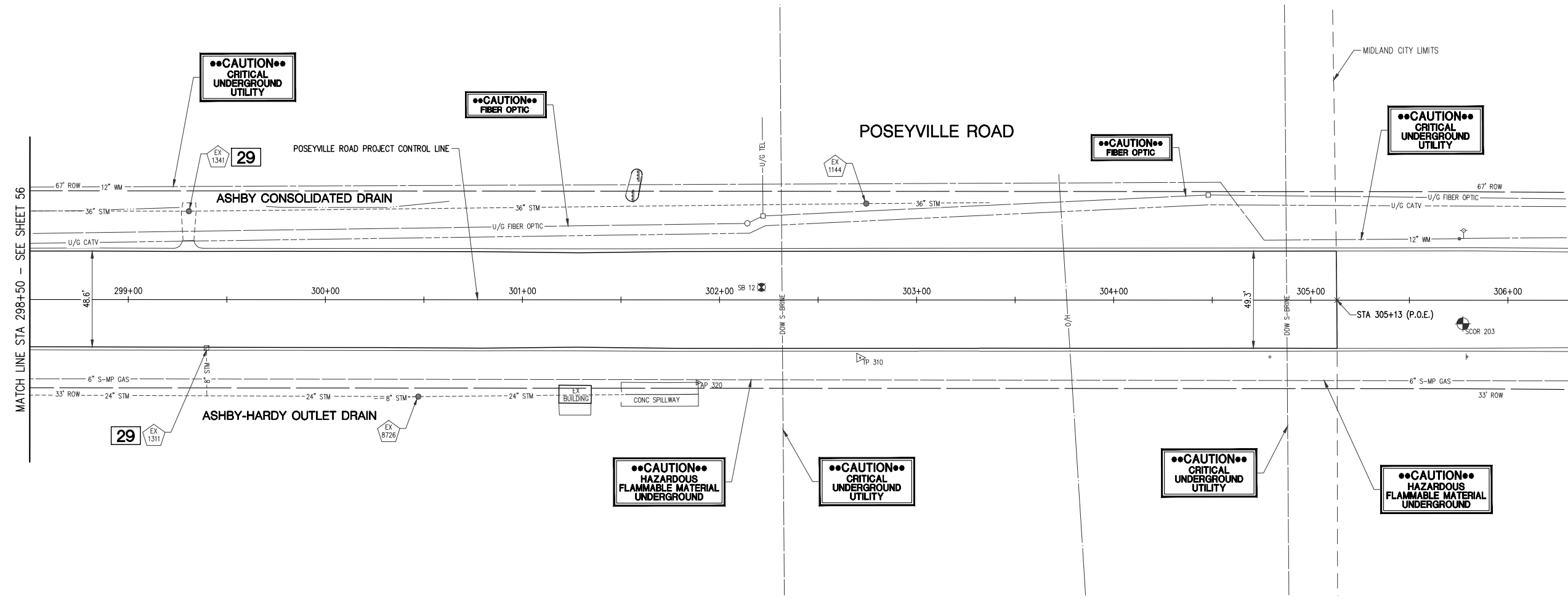
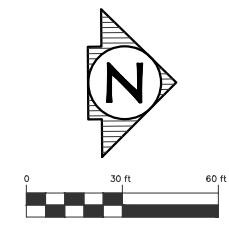
SHT# 58 OF 72
JOB No: 20M0019

PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
STA 298+50 TO STA 305+13 (P.O.E.)
REMOVAL SHEET

ROWE PROFESSIONAL SERVICES COMPANY
127 S. Main Street
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PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: 1" = 30'



CONSTRUCTION NOTE

CONCRETE CURB AND GUTTER TO BE PLACED ON THE EAST SIDE OF POSEYVILLE ROAD REPLACING THE EXISTING HMA CURB. PAID FOR AS Curb and Gutter, Conc, Det F4 AND Hand Patching.

SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Hand Patching	100	Ton
HMA, LVSP	328	Ton
Curb and Gutter, Conc, Det F4	413	Ft



PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS		REV:
DATE	DESCRIPTION	
3/19/21	ISSUED FOR BIDS	

PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
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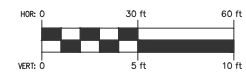
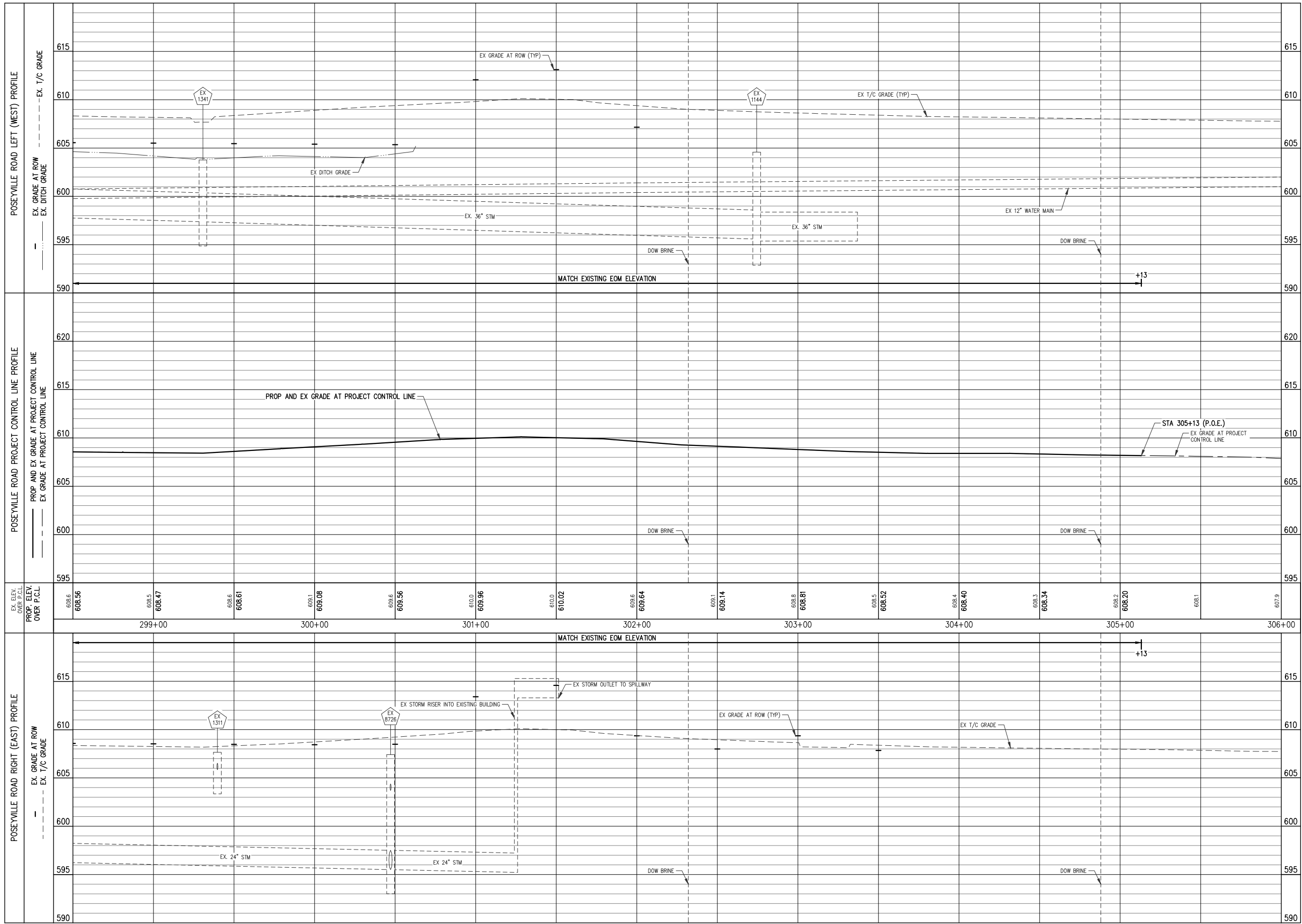
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PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STA 298+50 TO STA 305+13 (P.O.E.)
 CONSTRUCTION SHEET

SHT# 59 OF 72
 JOB No: 20M0019

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PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV: _____
 SHT# 60 of 72
 JOB No: 20M0019

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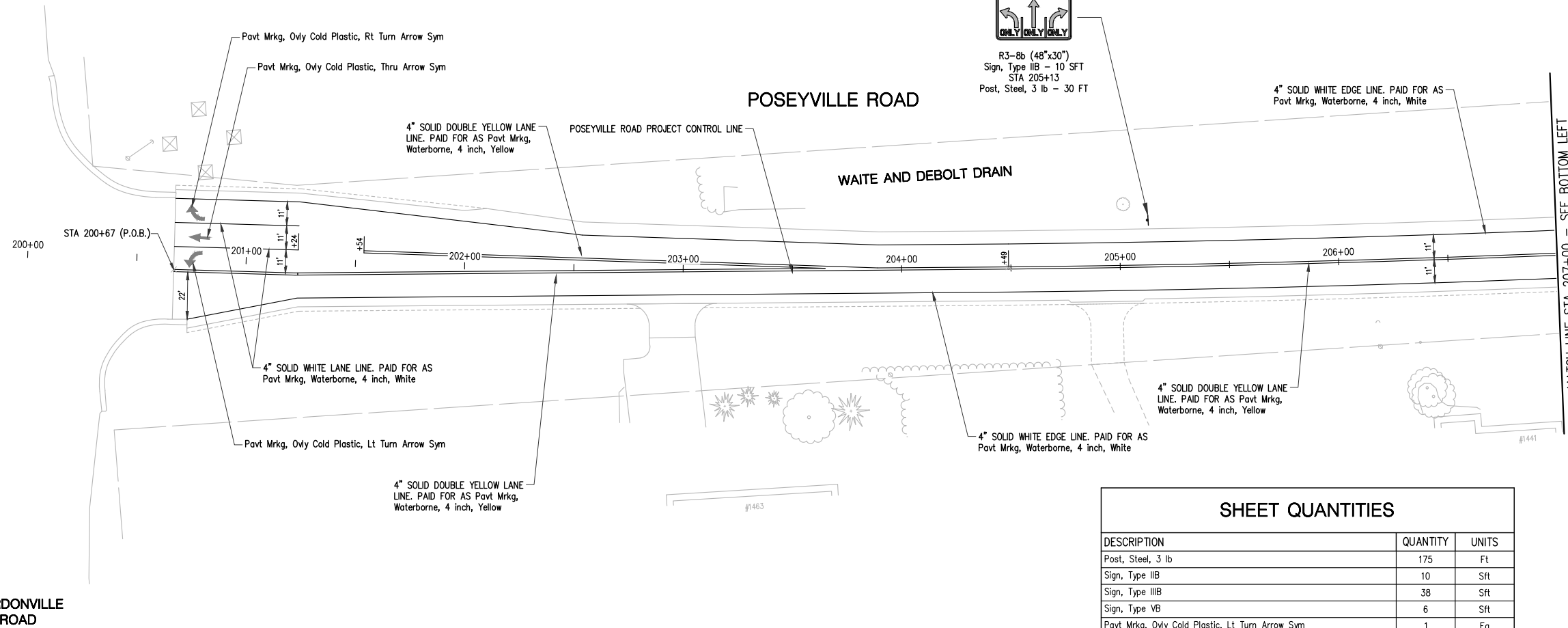
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MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STA 298+50 TO STA 305+13 (P.O.E.)
 PROFILE SHEET

PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: HORZ: 1"=30', VERT: 1"=5'

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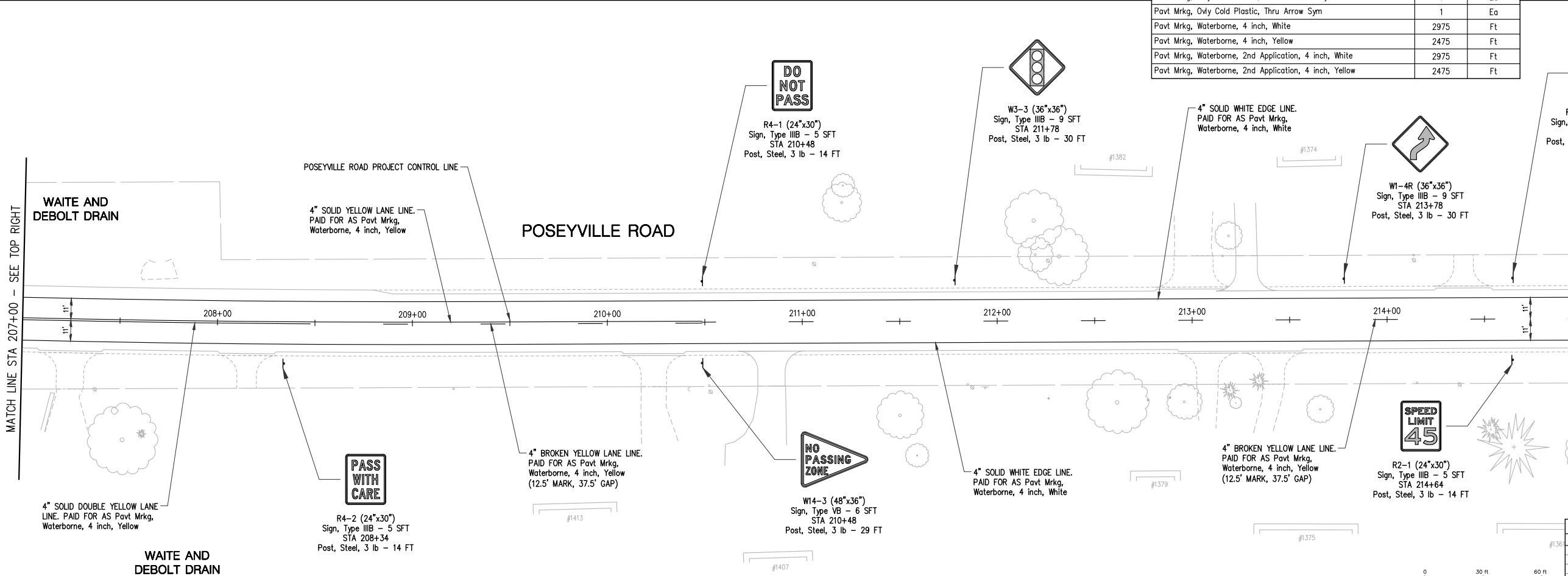
GORDONVILLE ROAD



GORDONVILLE ROAD

SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Post, Steel, 3 lb	175	Ft
Sign, Type IIB	10	Sft
Sign, Type IIIB	38	Sft
Sign, Type VB	6	Sft
Pavt Mrkg, Oly Cold Plastic, Lt Turn Arrow Sym	1	Ea
Pavt Mrkg, Oly Cold Plastic, Rt Turn Arrow Sym	1	Ea
Pavt Mrkg, Oly Cold Plastic, Thru Arrow Sym	1	Ea
Pavt Mrkg, Waterborne, 4 inch, White	2975	Ft
Pavt Mrkg, Waterborne, 4 inch, Yellow	2475	Ft
Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White	2975	Ft
Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	2475	Ft



WAITE AND DEBOLT DRAIN

PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

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**MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
STA 200+67 (P.O.B.) TO STA 215+00
PAVEMENT MARKING AND SIGNING SHEET**

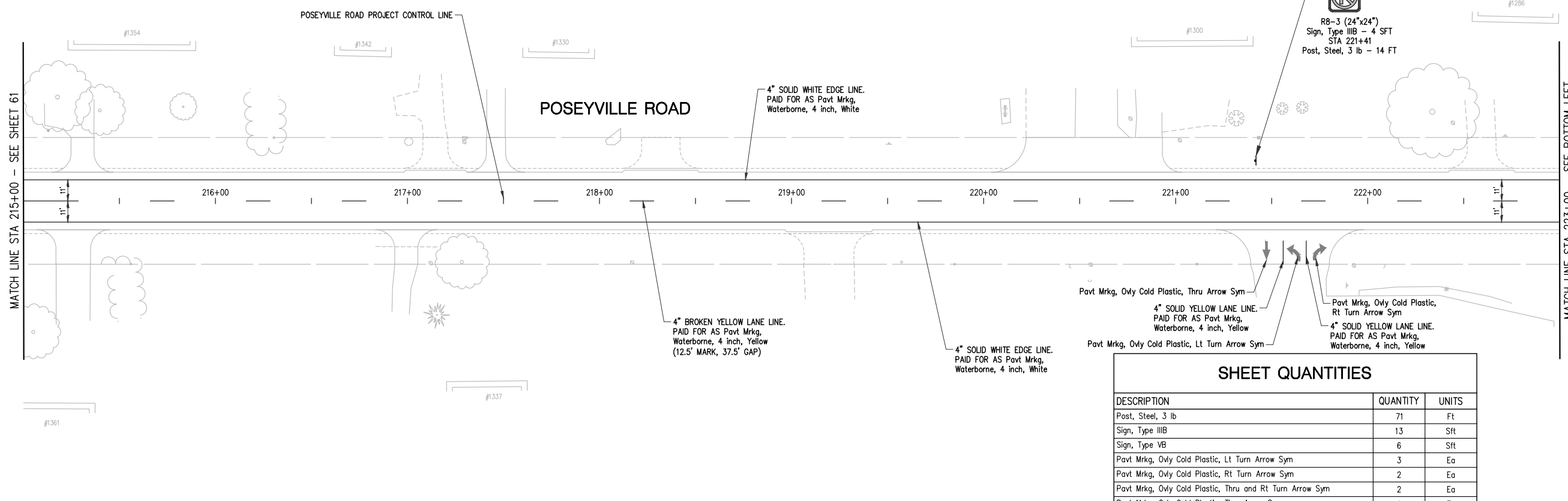
PREPARED FOR

PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: 1" = 30'

REV: _____

SHT# 61 OF 72
JOB No: 20M0019

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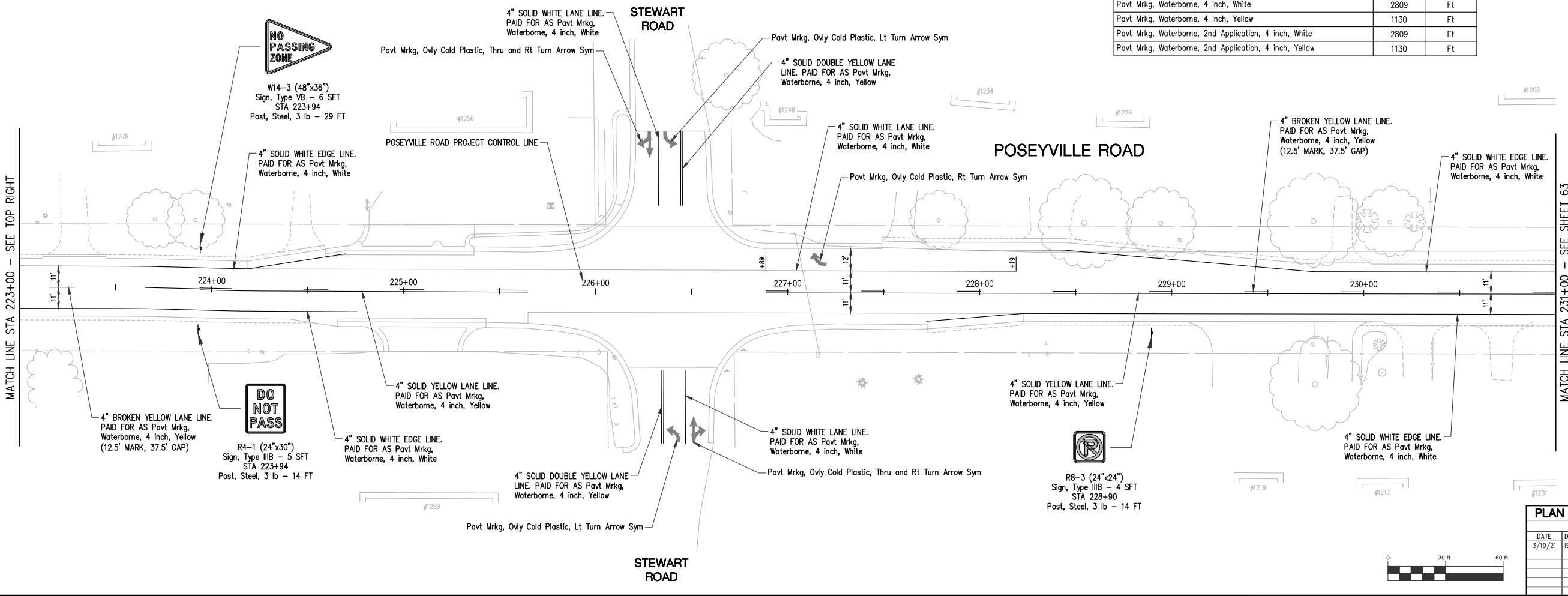


MATCH LINE STA 223+00 - SEE BOTTOM LEFT

MATCH LINE STA 215+00 - SEE SHEET 61

SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Post, Steel, 3 lb	71	Ft
Sign, Type IIB	13	Sft
Sign, Type VB	6	Sft
Pavt Mrkg, Ovlv Cold Plastic, Lt Turn Arrow Sym	3	Ea
Pavt Mrkg, Ovlv Cold Plastic, Rt Turn Arrow Sym	2	Ea
Pavt Mrkg, Ovlv Cold Plastic, Thru and Rt Turn Arrow Sym	2	Ea
Pavt Mrkg, Ovlv Cold Plastic, Thru Arrow Sym	1	Ea
Pavt Mrkg, Waterborne, 4 inch, White	2809	Ft
Pavt Mrkg, Waterborne, 4 inch, Yellow	1130	Ft
Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White	2809	Ft
Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	1130	Ft



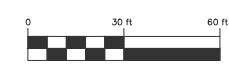
MATCH LINE STA 231+00 - SEE SHEET 63

MATCH LINE STA 223+00 - SEE TOP RIGHT



PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS



PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: 1" = 30'

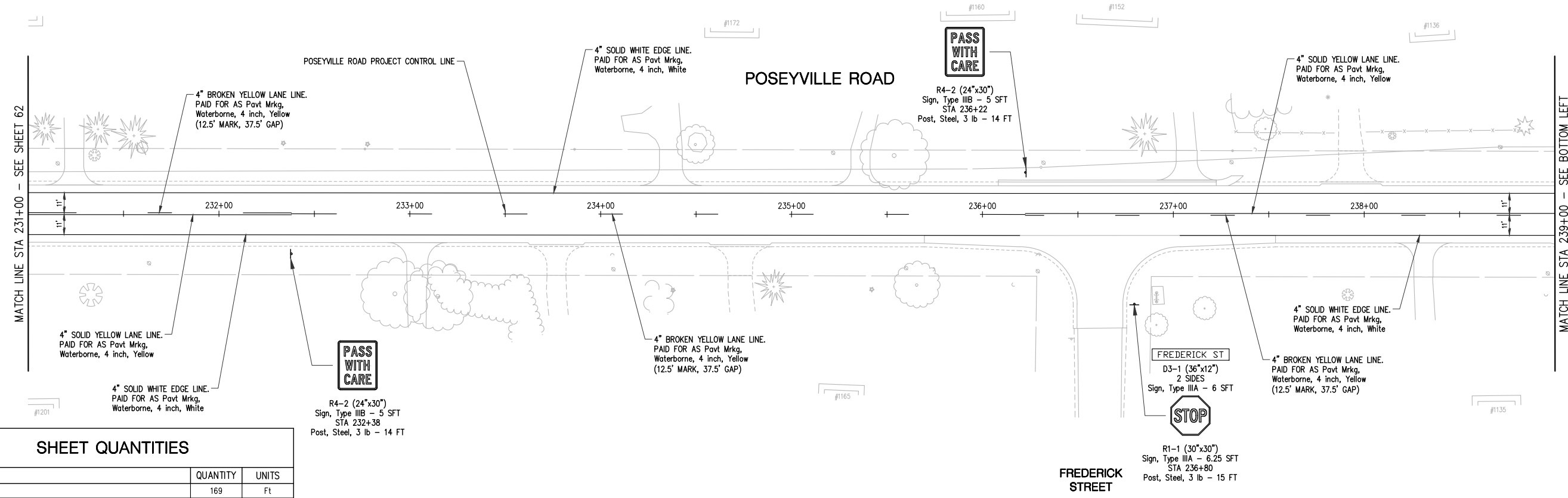
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2021 POSEYVILLE ROAD REHABILITATION
 STA 215+00 TO STA 231+00
 PAVEMENT MARKING AND SIGNING SHEET

ROWE PROFESSIONAL SERVICES COMPANY



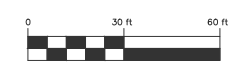
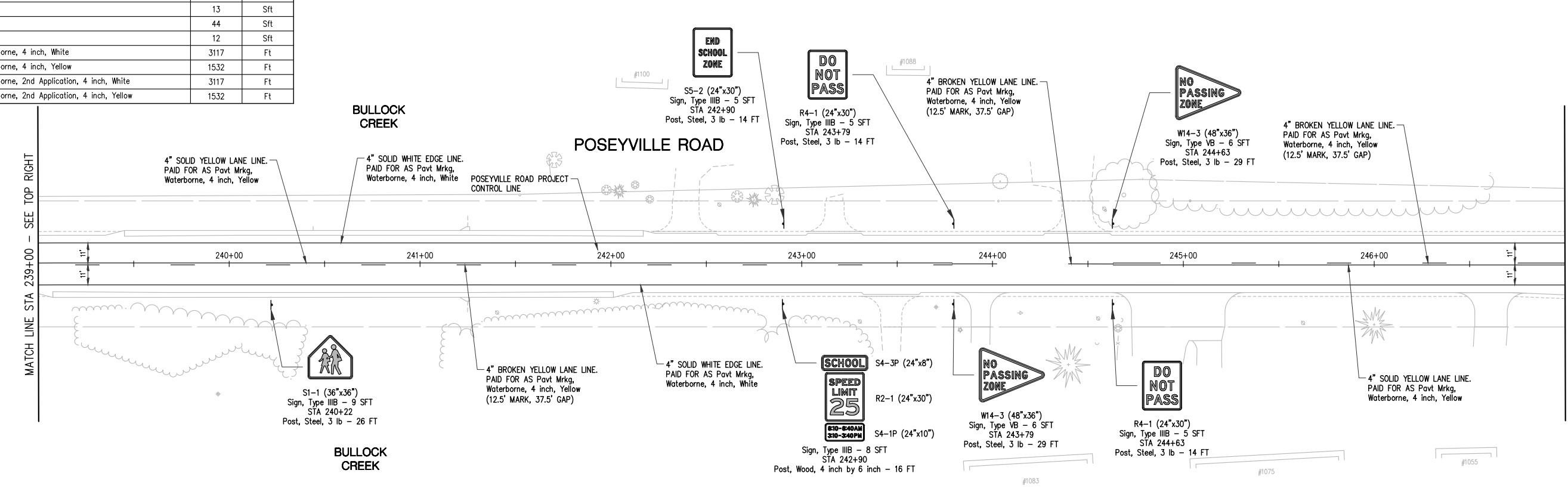
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SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Post, Steel, 3 lb	169	Ft
Post, Wood, 4 inch by 6 inch	16	Ft
Sign, Type IIIA	13	Sft
Sign, Type IIIB	44	Sft
Sign, Type VB	12	Sft
Pavt Mrkg, Waterborne, 4 inch, White	3117	Ft
Pavt Mrkg, Waterborne, 4 inch, Yellow	1532	Ft
Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White	3117	Ft
Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	1532	Ft



PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: 1" = 30'

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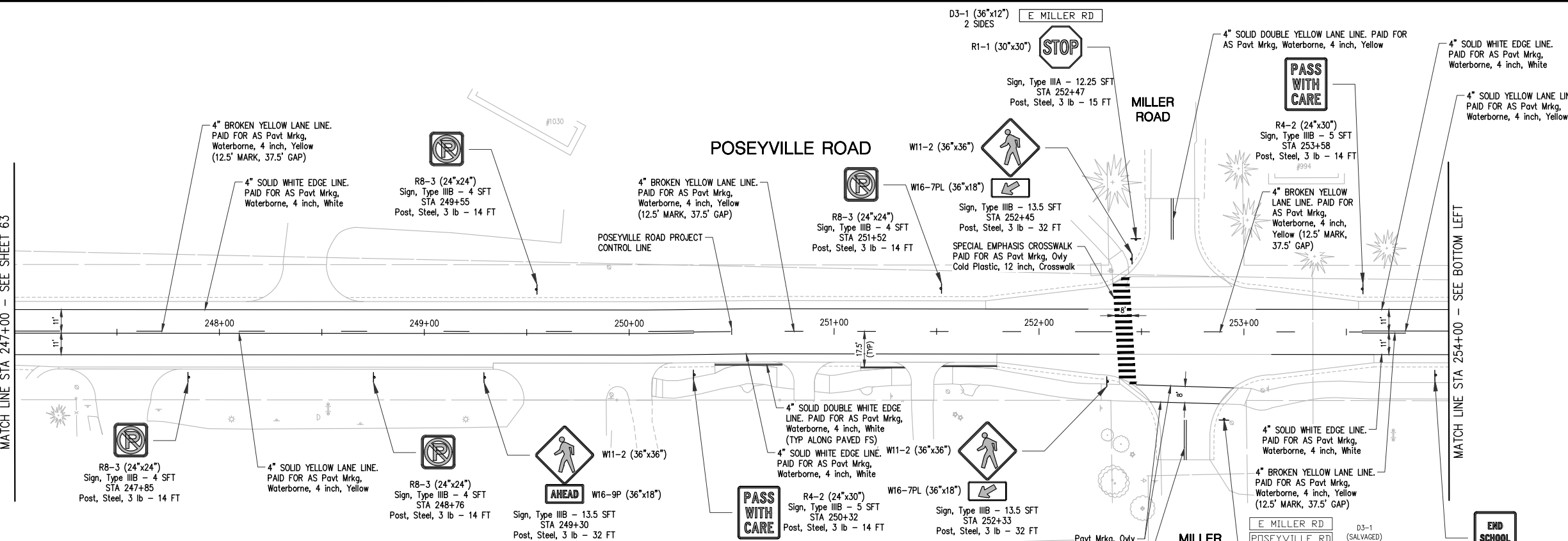
**MIDLAND COUNTY ROAD COMMISSION
 2021 POSEYVILLE ROAD REHABILITATION**

STA 231+00 TO STA 247+00
 PAVEMENT MARKING AND SIGNING SHEET

REV:
 SHT# 63 OF 72
 JOB No: 20M0019

MATCH LINE STA 247+00 - SEE SHEET 63

MATCH LINE STA 254+00 - SEE SHEET LEFT



SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Delineator, Reflective Sheeting, 3 inch by 12 inch, White	29	Ea
Post, Flexible, Delineator	29	Ea
Post, Steel, 3 lb	320	Ft
Post, Wood, 4 inch by 6 inch	16	Ft
Sign, Type III, Erect, Salv	6	Ea
Sign, Type IIIA	19	Sft
Sign, Type IIIB	107	Sft

SHEET QUANTITIES

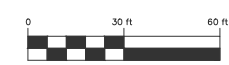
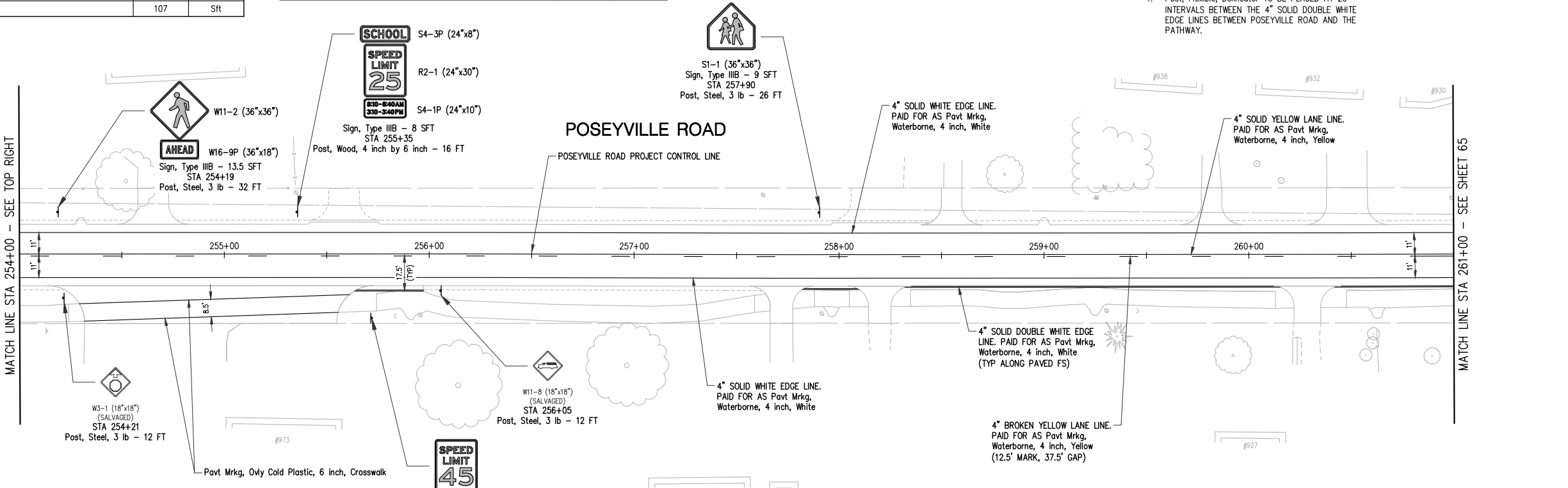
DESCRIPTION	QUANTITY	UNITS
Pavt Mrkg, Ovlv Cold Plastic, 6 inch, Crosswalk	338	Ft
Pavt Mrkg, Ovlv Cold Plastic, 12 inch, Crosswalk	135	Ft
Pavt Mrkg, Waterborne, 4 inch, White	3437	Ft
Pavt Mrkg, Waterborne, 4 inch, Yellow	1483	Ft
Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White	3437	Ft
Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	1483	Ft

CONSTRUCTION NOTES

1. Post, Flexible, Delineator TO BE PLACED AT 20' INTERVALS BETWEEN THE 4" SOLID DOUBLE WHITE EDGE LINES BETWEEN POSEYVILLE ROAD AND THE PATHWAY.

MATCH LINE STA 254+00 - SEE TOP RIGHT

MATCH LINE STA 261+00 - SEE SHEET 65



PLAN SUBMITTALS AND CHANGES		REV:
BIDDING DOCUMENTS		
DATE	DESCRIPTION	
3/19/21	ISSUED FOR BIDS	

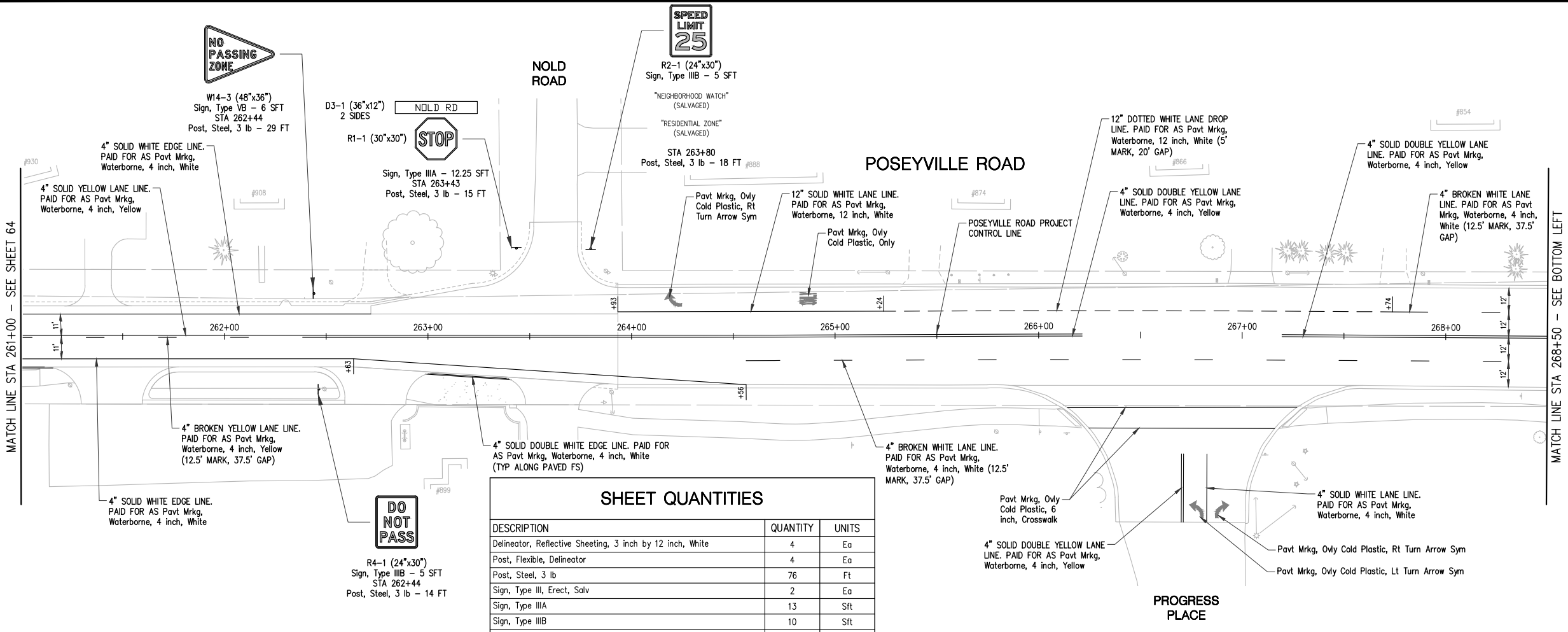
PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: 1" = 30'

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2021 POSEYVILLE ROAD REHABILITATION
 STA 247+00 TO STA 261+00
 PAVEMENT MARKING AND SIGNING SHEET

SHT# 64 OF 72
 JOB No: 20M0019

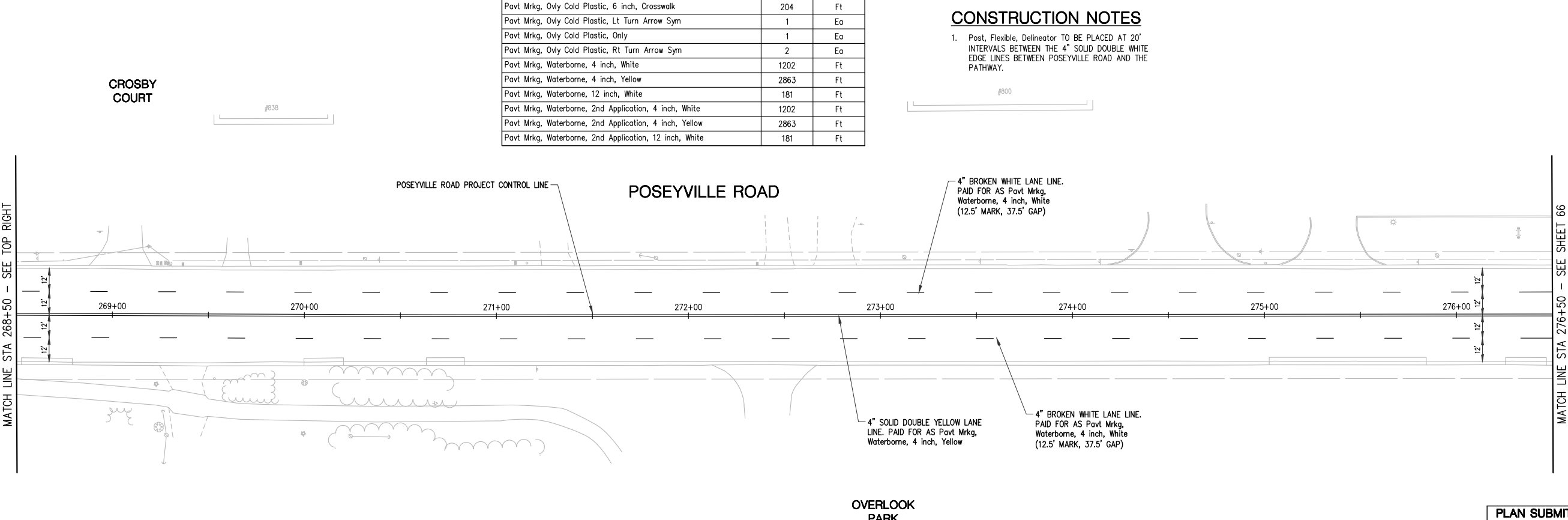


SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Delineator, Reflective Sheeting, 3 inch by 12 inch, White	4	Ea
Post, Flexible, Delineator	4	Ea
Post, Steel, 3 lb	76	Ft
Sign, Type III, Erect, Salv	2	Ea
Sign, Type IIIA	13	Sft
Sign, Type IIIB	10	Sft
Sign, Type VB	6	Sft
Pavt Mrkg, Ovlv Cold Plastic, 6 inch, Crosswalk	204	Ft
Pavt Mrkg, Ovlv Cold Plastic, Lt Turn Arrow Sym	1	Ea
Pavt Mrkg, Ovlv Cold Plastic, Only	1	Ea
Pavt Mrkg, Ovlv Cold Plastic, Rt Turn Arrow Sym	2	Ea
Pavt Mrkg, Waterborne, 4 inch, White	1202	Ft
Pavt Mrkg, Waterborne, 4 inch, Yellow	2863	Ft
Pavt Mrkg, Waterborne, 12 inch, White	181	Ft
Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White	1202	Ft
Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	2863	Ft
Pavt Mrkg, Waterborne, 2nd Application, 12 inch, White	181	Ft

CONSTRUCTION NOTES

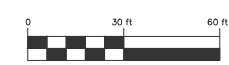
1. Post, Flexible, Delineator TO BE PLACED AT 20' INTERVALS BETWEEN THE 4" SOLID DOUBLE WHITE EDGE LINES BETWEEN POSEYVILLE ROAD AND THE PATHWAY.



PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

REV: _____
 SHT# 65 OF 72
 JOB No: 20M0019



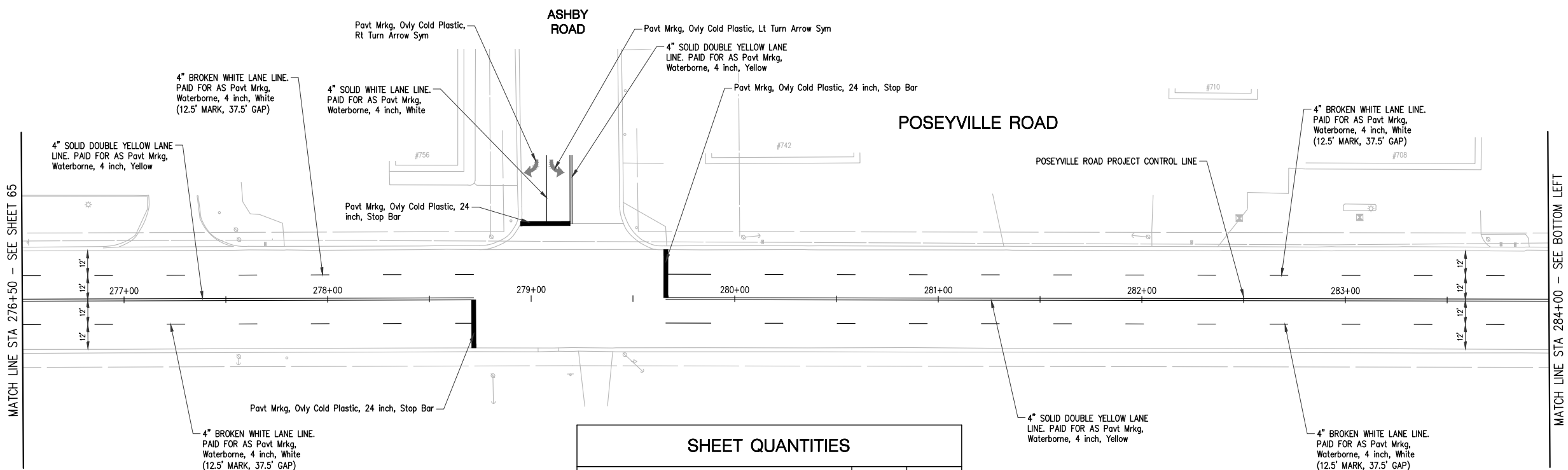
PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: 1" = 30'

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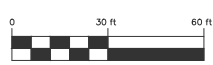
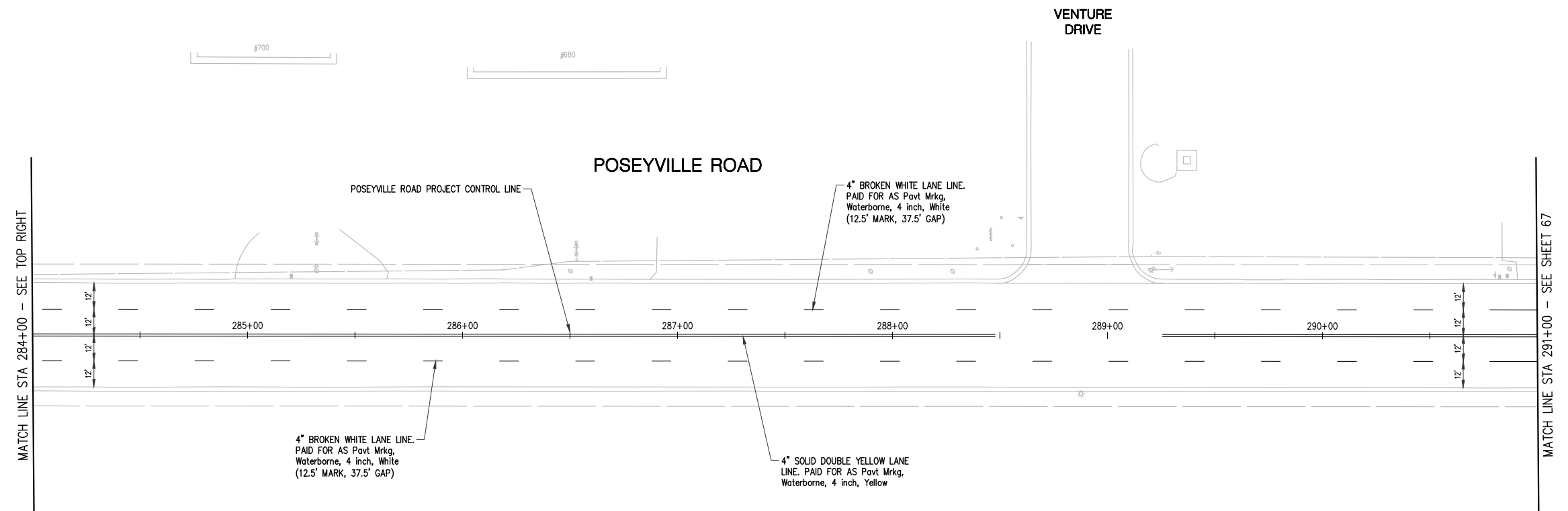


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MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STA 261+00 TO STA 276+50
 PAVEMENT MARKING AND SIGNING SHEET



SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar	72	Ft
Pavt Mrkg, Ovly Cold Plastic, Lt Turn Arrow Sym	1	Ea
Pavt Mrkg, Ovly Cold Plastic, Rt Turn Arrow Sym	1	Ea
Pavt Mrkg, Waterborne, 4 inch, White	711	Ft
Pavt Mrkg, Waterborne, 4 inch, Yellow	2622	Ft
Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White	711	Ft
Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	2622	Ft



PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS

PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: 1" = 30'

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811
 Know what's below.
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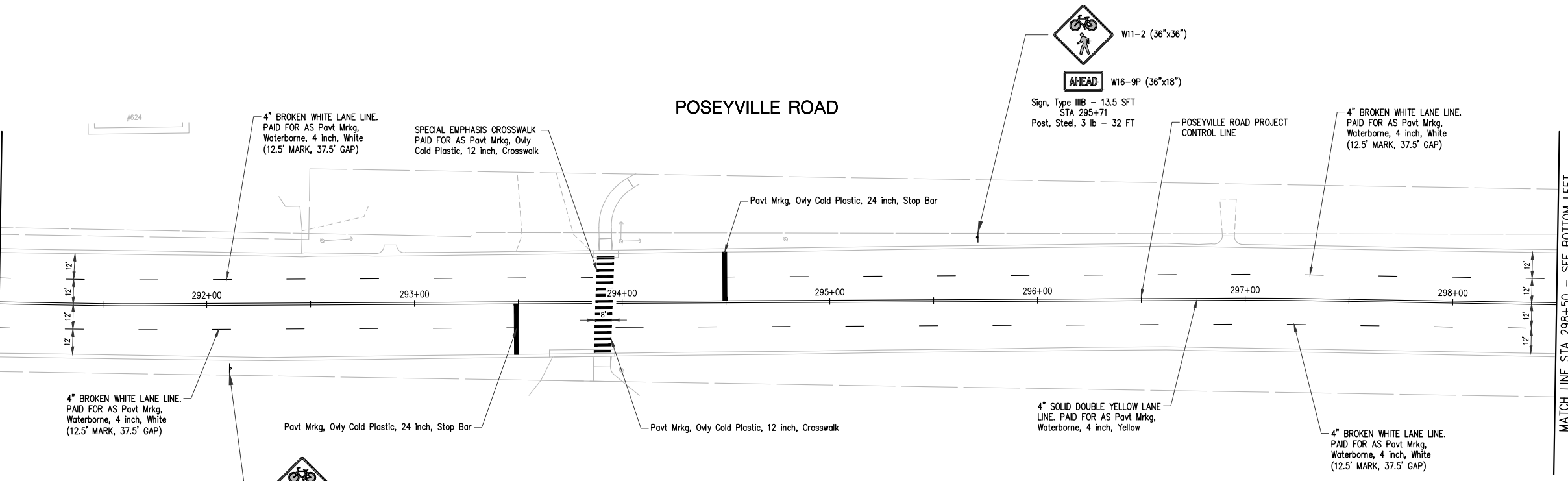
PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STA 276+50 TO STA 291+00
PAVEMENT MARKING AND SIGNING SHEET

127 S. Main Street
 Mt. Pleasant, MI 48858

REV: _____
 SHT# 66 OF 72
 JOB No: 20M0019



MATCH LINE STA 291+00 - SEE SHEET 66

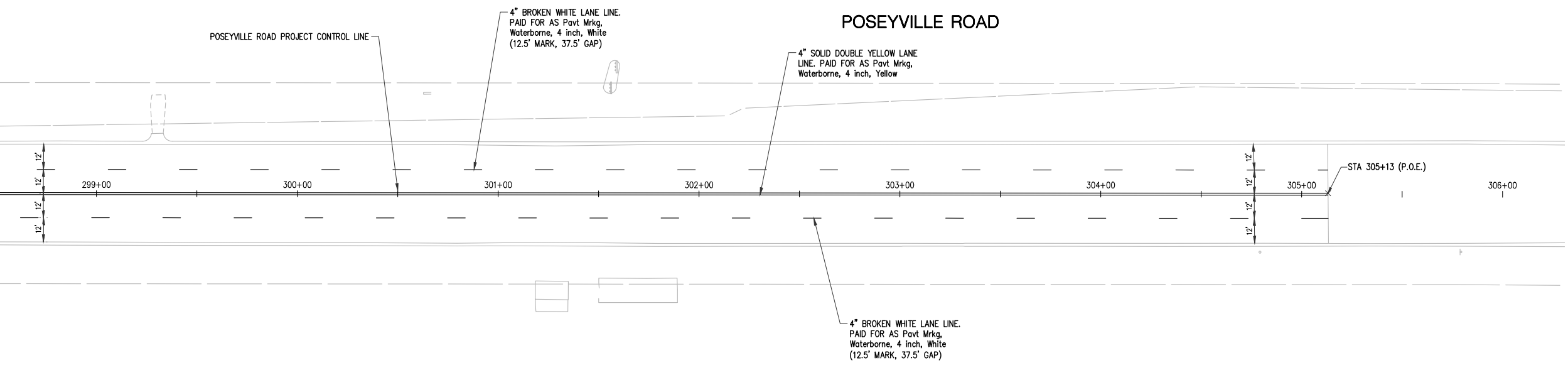


MATCH LINE STA 298+50 - SEE BOTTOM LEFT

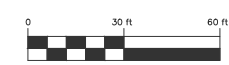
SHEET QUANTITIES

DESCRIPTION	QUANTITY	UNITS
Post, Steel, 3 lb	64	Ft
Sign, Type III B	27	Sft
Pavt Mrkg, Oly Cold Plastic, 12 inch, Crosswalk	128	Ft
Pavt Mrkg, Oly Cold Plastic, 24 inch, Stop Bar	48	Ft
Pavt Mrkg, Waterborne, 4 inch, White	679	Ft
Pavt Mrkg, Waterborne, 4 inch, Yellow	2803	Ft
Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White	679	Ft
Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	2803	Ft

MATCH LINE STA 298+50 - SEE TOP RIGHT



PLAN SUBMITTALS AND CHANGES	
BIDDING DOCUMENTS	
DATE	DESCRIPTION
3/19/21	ISSUED FOR BIDS



PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: 1" = 30'

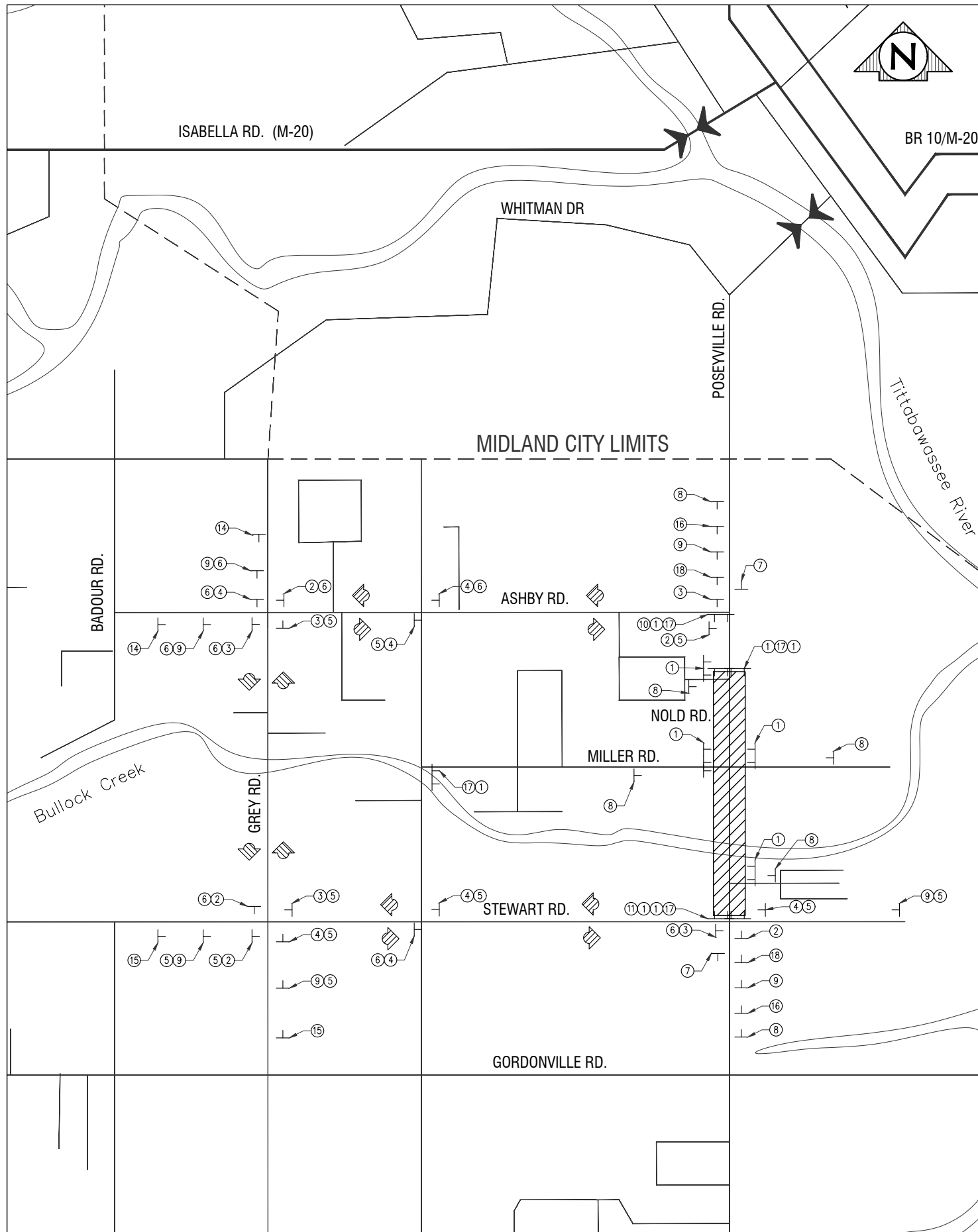
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PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STA 291+00 TO STA 305+13 (P.O.E.)
 PAVEMENT MARKING AND SIGNING SHEET

REV: _____
 SHT# 67 OF 72
 JOB No: 20M0019



STAGE 1 DETOUR ROUTE

SIGN LEGEND

	① TYPE III - 8 FT BARRICADE - B (DOUBLE SIDED, HIGH INTENSITY, LIGHTED)		⑩ M4-10 (R) (48" X 18")
	② M4-9 (L) (30" X 24")		⑪ M4-10 (L) (48" X 18")
	③ M4-9 (R) (30" X 24")		⑫ SPECIAL (48" X 48")
	④ M4-9 (T) (30" X 24")		⑬ SPECIAL (48" X 48")
	⑤ D3-1 SPECIAL (EST. 36" X 6")		⑭ SPECIAL (48" X 48")
	⑥ D3-1 SPECIAL (EST. 36" X 6")		⑮ SPECIAL (48" X 48")
	⑦ M4-8A (24" X 18")		⑯ W20-3 (48" X 48")
	⑧ W20-1 (48" X 48")		⑰ R11-4 (60" X 30")
	⑨ W20-2 (48" X 48")		⑱ SPECIAL (60" X 30")

TEMPORARY PATHWAY SIGNING QUANTITIES

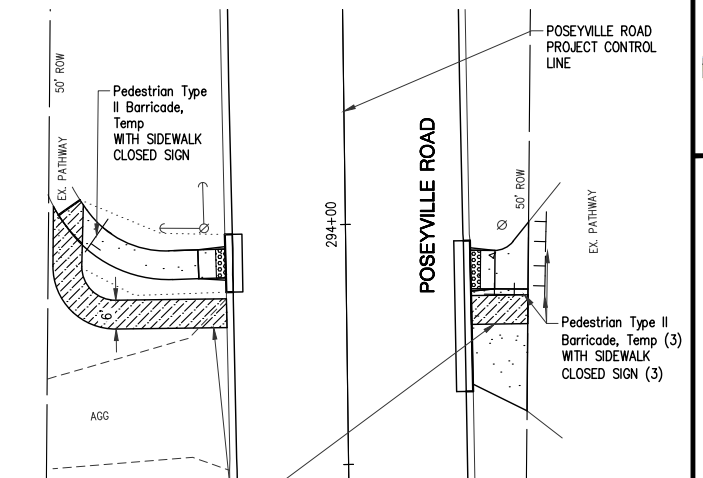
SIGN	SIGN DESIGNATION	LOCATION	QUANTITY	SIGNS	
				SIGN AREA SFT	TOTAL AREA SFT
PEDESTRIAN TYPE II BARRICADE	N/A	NORTH SIDE OF DW 250+06 RT	1	N/A	N/A
SIDEWALK CLOSED	R9-9		1	2	2
PEDESTRIAN TYPE II BARRICADE	N/A	NE QUAD OF MILLER ROAD INTERSECTION	1	N/A	N/A
SIDEWALK CLOSED	R9-9		1	2	2
PEDESTRIAN TYPE II BARRICADE	N/A	SE QUAD OF MILLER ROAD INTERSECTION	1	N/A	N/A
SIDEWALK CLOSED	R9-9		1	2	2
PEDESTRIAN TYPE II BARRICADE	N/A	SW QUAD OF MILLER ROAD INTERSECTION	1	N/A	N/A
SIDEWALK CLOSED	R9-9		1	2	2
PEDESTRIAN TYPE II BARRICADE	N/A	SOUTH SIDE OF DW 263+61 RT	1	N/A	N/A
SIDEWALK CLOSED	R9-9		1	2	2
PEDESTRIAN TYPE II BARRICADE	N/A	AS SHOWN ON TEMPORARY PATHWAY SIGNAL CROSSING DETAIL	4	N/A	N/A
SIDEWALK CLOSED	R9-9		4	2	8
Sign Type B, Temp, Prismatic, Furn & Oper					18
Pedestrian Type II Barricade - 9 EA					

STAGE 1 TEMPORARY SIGNING QUANTITIES

SYMBOL	ITEM	QUANTITY	SIGNS	
			SIGN AREA SFT	TOTAL AREA SFT
2	M4-9 (L)	5	5	25
3	M4-9 (R)	5	5	25
4	M4-9 (T)	7	5	35
5	D3-1 (SPECIAL)	11	1.5	16.5
6	D3-1 (SPECIAL)	9	1.5	13.5
7	M4-8A	2	3	6
8	W20-1	6	16	96
9	W20-2	7	16	112
10	M4-10 (R)	1	6	6
11	M4-10 (L)	1	6	6
12	SPECIAL	0	16	0
13	SPECIAL	0	16	0
14	SPECIAL	2	16	32
15	SPECIAL	2	16	32
16	SPECIAL	2	16	32
17	R11-4	4	12.5	50
18	SPECIAL	2	12.5	25
Sign Type B, Temp, Prismatic, Furn & Oper				393
Sign Type B, Temp, Prismatic, Spec, Furn & Oper				119
TOTAL				512
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn & Oper - 10 EA				

SYMBOL LEGEND

	SIGN
	CONSTRUCTION ZONE
	NB & SB POSEYVILLE RD. DETOUR ROUTE
	BARRICADE, TYPE III, HIGH INTENSITY



TEMPORARY PATH TO BE INSTALLED TO MAINTAIN PATHWAY ACCESS WHILE SIDEWALK RAMPS ARE CONSTRUCTED. PAID FOR AS Pedestrian Path, Temp. AND Pedestrian Ramp, Temp. LOCATION TO BE TO BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER.

NOTE: CONSTRUCT SIDEWALK RAMP SEPARATE FROM DRIVEWAY ACCESS TO ALLOW FOR TEMPORARY ACCESS TO PATHWAY. SUGGESTED SEQUENCING:

1. REMOVE EXISTING SOUTH DRIVEWAY ACCESS MAINTAINING PATHWAY ACCESS TO NORTH
2. CONSTRUCT TEMPORARY PATHWAY ACCESS
3. REMOVE EXISTING NORTH PATHWAY ACCESS
4. CONSTRUCT PROPOSED SIDEWALK RAMP
5. REMOVE TEMPORARY PATHWAY ACCESS
6. CONSTRUCT PROPOSED DRIVEWAY ACCESS

TEMPORARY PATHWAY SIGNAL CROSSING



Know what's below. Call before you dig.

PLAN SUBMITTALS AND CHANGES

BIDDING DOCUMENTS		REV:
DATE	DESCRIPTION	
3/19/21	ISSUED FOR BIDS	

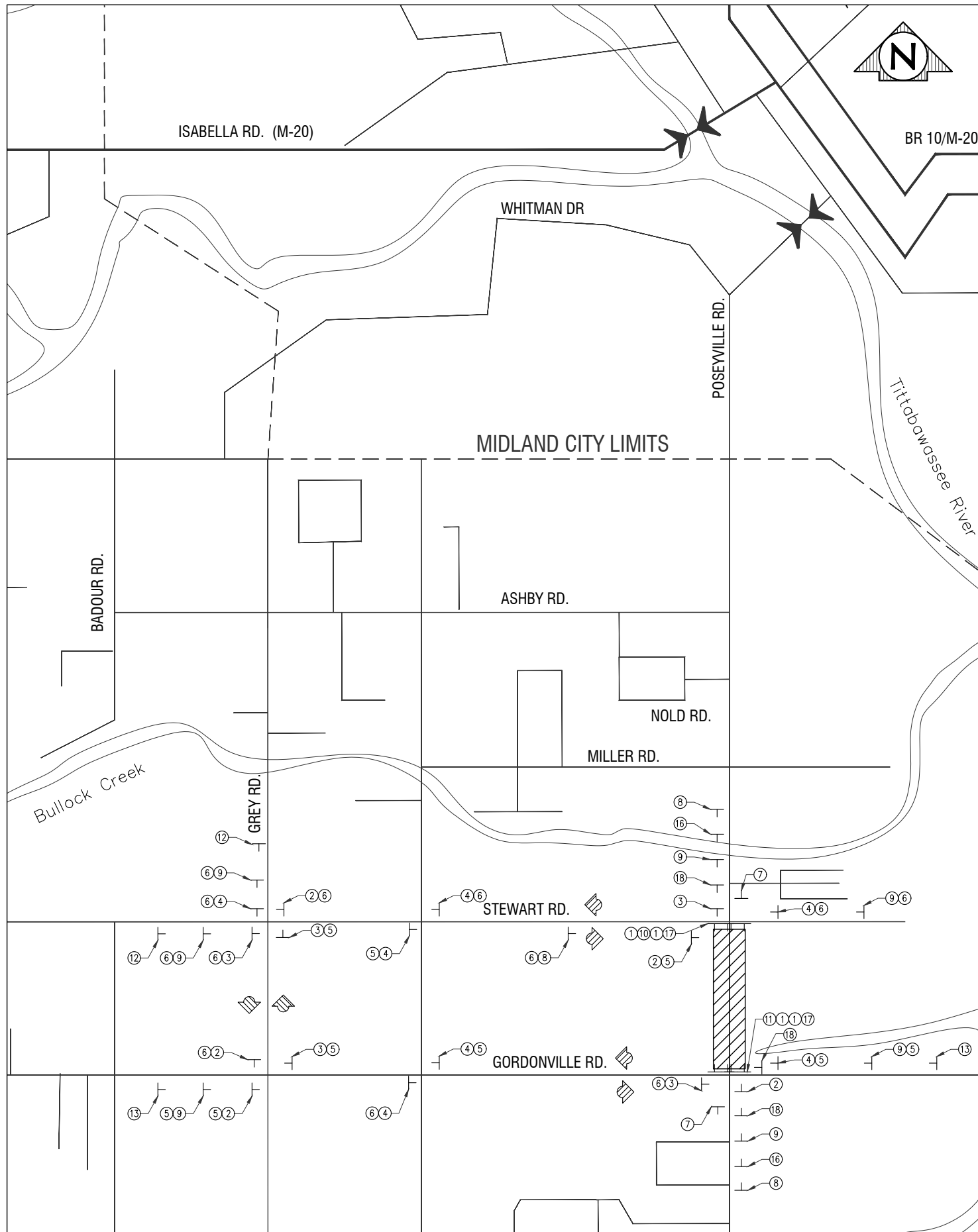
PLAN DATE: MARCH 2021
 PROJECT MGR: MJS
 REVIEWER: TCL
 SCALE: NO SCALE

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PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STAGE 1 DETOUR PLAN
 MAINTAINING TRAFFIC SHEET

SHT# 68 OF 72
 JOB No: 20M0019



STAGE 2 DETOUR ROUTE

SIGN LEGEND

- ① TYPE III - 8 FT BARRICADE - B (DOUBLE SIDED, HIGH INTENSITY, LIGHTED)
- ② M4-9 (L) (30" X 24")
- ③ M4-9 (R) (30" X 24")
- ④ M4-9 (T) (30" X 24")
- ⑤ NB POSEYVILLE RD. D3-1 SPECIAL (EST. 36" X 6")
- ⑥ SB POSEYVILLE RD. D3-1 SPECIAL (EST. 36" X 6")
- ⑦ M4-8A (24" X 18")
- ⑧ W20-1 (48" X 48")
- ⑨ W20-2 (48" X 48")
- ⑩ M4-10 (R) (48" X 18")
- ⑪ M4-10 (L) (48" X 18")
- ⑫ SPECIAL (48" X 48")
- ⑬ SPECIAL (48" X 48")
- ⑭ SPECIAL (48" X 48")
- ⑮ SPECIAL (48" X 48")
- ⑯ W20-3 (48" X 48")
- ⑰ R11-4 (60" X 30")
- ⑱ SPECIAL (60" X 30")

STAGE 2 TEMPORARY SIGNING QUANTITIES

SYMBOL	ITEM	QUANTITY	SIGNS	
			SIGN AREA SFT	TOTAL AREA SFT
2	M4-9 (L)	5	5	25
3	M4-9 (R)	5	5	25
4	M4-9 (T)	7	5	35
5	D3-1 (SPECIAL)	9	1.5	13.5
6	D3-1 (SPECIAL)	12	1.5	18
7	M4-8A	2	3	6
8	W20-1	3	16	48
9	W20-2	7	16	112
10	M4-10 (R)	1	6	6
11	M4-10 (L)	1	6	6
12	SPECIAL	2	16	32
13	SPECIAL	2	16	32
14	SPECIAL	0	16	0
15	SPECIAL	0	16	0
16	W20-3	2	16	32
17	R11-4	2	12.5	25
18	SPECIAL	3	12.5	37.5
Sign Type B, Temp, Prismatic, Furn & Oper			320	
Sign Type B, Temp, Prismatic, Spec, Furn & Oper			133	
TOTAL			453	
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn & Oper - 4 EA				

SYMBOL LEGEND

- SIGN
- CONSTRUCTION ZONE
- NB & SB POSEYVILLE RD. DETOUR ROUTE
- BARRICADE, TYPE III, HIGH INTENSITY



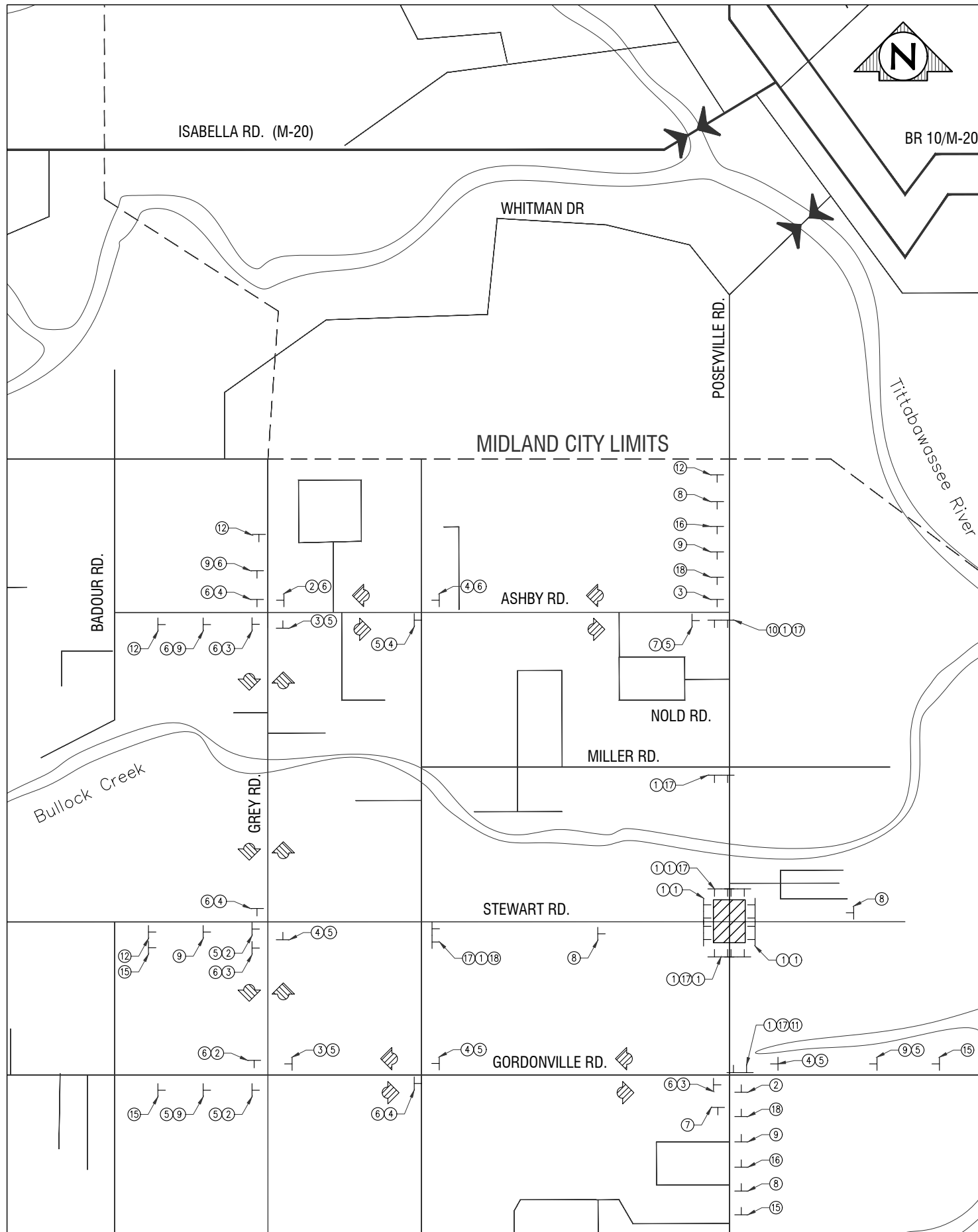
PLAN SUBMITTALS AND CHANGES		REV:
BIDDING DOCUMENTS		
DATE	DESCRIPTION	
3/19/21	ISSUED FOR BIDS	

PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STAGE 2 DETOUR PLAN
 MAINTAINING TRAFFIC SHEET

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STAGE 3 DETOUR ROUTE

SIGN LEGEND

- ① TYPE III - 8 FT BARRICADE - B (DOUBLE SIDED, HIGH INTENSITY, LIGHTED)
- ② M4-9 (L) (30" X 24")
- ③ M4-9 (R) (30" X 24")
- ④ M4-9 (T) (30" X 24")
- ⑤ NB POSEYVILLE RD. D3-1 SPECIAL (EST. 36" X 6")
- ⑥ SB POSEYVILLE RD. D3-1 SPECIAL (EST. 36" X 6")
- ⑦ END DETOUR M4-8A (24" X 18")
- ⑧ W20-1 (48" X 48")
- ⑨ W20-2 (48" X 48")
- ⑩ M4-10 (R) (48" X 18")
- ⑪ M4-10 (L) (48" X 18")
- ⑫ SB POSEYVILLE CLOSED AT STEWART FOLLOW DETOUR SPECIAL (48" X 48")
- ⑬ NB POSEYVILLE CLOSED AT GORDONVILLE FOLLOW DETOUR SPECIAL (48" X 48")
- ⑭ SB POSEYVILLE CLOSED AT ASHBY FOLLOW DETOUR SPECIAL (48" X 48")
- ⑮ NB POSEYVILLE CLOSED AT STEWART FOLLOW DETOUR SPECIAL (48" X 48")
- ⑯ ROAD WORK AHEAD
- ⑰ ROAD CLOSED TO THRU TRAFFIC R11-4 (60" X 30")
- ⑱ LOCAL BUSINESSES OPEN SPECIAL (60" X 30")
- ⑩ M4-10 (R) (48" X 18")
- ⑪ M4-10 (L) (48" X 18")
- ⑫ SPECIAL (48" X 48")
- ⑬ SPECIAL (48" X 48")
- ⑭ SPECIAL (48" X 48")
- ⑮ SPECIAL (48" X 48")
- ⑯ W20-3 (48" X 48")
- ⑰ R11-4 (60" X 30")
- ⑱ SPECIAL (60" X 30")

STAGE 3 TEMPORARY SIGNING QUANTITIES

SYMBOL	ITEM	QUANTITY	SIGNS	
			SIGN AREA SFT	TOTAL AREA SFT
2	M4-9 (L)	5	5	25
3	M4-9 (R)	6	5	30
4	M4-9 (T)	8	5	40
5	D3-1 (SPECIAL)	11	1.5	16.5
6	D3-1 (SPECIAL)	11	1.5	16.5
7	M4-8A	2	3	6
8	W20-1	4	16	64
9	W20-2	7	16	112
10	M4-10 (R)	1	6	6
11	M4-10 (L)	1	6	6
12	SPECIAL	4	16	64
13	SPECIAL	0	16	0
14	SPECIAL	0	16	0
15	SPECIAL	4	16	64
16	W20-3	2	16	32
17	R11-4	6	12.5	75
18	SPECIAL	3	12.5	37.5
Sign Type B, Temp, Prismatic, Furn & Oper			396	
Sign Type B, Temp, Prismatic, Spec, Furn & Oper			198.5	
TOTAL			594.5	
Barricade, Type III, High Intensity, Double Sided, Lighted, Furn & Oper - 12 EA				

SYMBOL LEGEND

- ⊥ SIGN
- ▨ CONSTRUCTION ZONE
- ▧ NB & SB POSEYVILLE RD. DETOUR ROUTE
- ⊥⊥ BARRICADE, TYPE III, HIGH INTENSITY



PLAN SUBMITTALS AND CHANGES		REV:
BIDDING DOCUMENTS		
DATE	DESCRIPTION	
3/19/21	ISSUED FOR BIDS	

PREPARED FOR
MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
 STAGE 3 DETOUR PLAN
 MAINTAINING TRAFFIC SHEET

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BORING DATA SHEET

PROJECT NAME: Poseyville Road Improvements
PROJECT NO.: 084905.00
LOCATION: Ingersoll and Midland Townships, Michigan
DATE: 4/14/20
DRILLED BY: BM/JM
LOGGED BY: JM/ZM

BORING: SB1
STREET: Poseyville Road
LANE: Southbound Lane
STATION: 330 Feet North of E. Gordonville Road
OFFSET: 8 Feet West of Centerline
ADDRESS: 1483
GROUND EL.: Not Determined

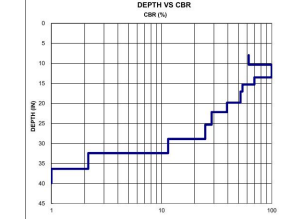
Table with 5 columns: Layer, In., To, Layer, Description, Comment. Rows include ASPHALT PAVEMENT, AGGREGATE BASE, FILL, SILTY CLAY with Sand, and SILTY CLAY with Sand - Gray - Stiff (CLML).

Depth to Groundwater From Ground Surface Upon Completion: Not Encountered
NOTES: 1) The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 2) HP = Hand Penetrometer. KSF = Kips per Square Foot (Shear Strength). MC = Moisture Content. 3) LOI = Loss-on-ignition

DCP TEST RESULTS

Table with 10 columns: No. of Blows, Pen. (mm), Blow Set (mm), Pen./Blow (mm), Blow Factor, Depth from Surface (inches), CBR (%), Comment, Soil Type, Average CBR (%). Rows show data for various depths from 0 to 1150 mm.

Hammer Blow Factor: 1 for 17.6 lb Hammer and 2 for 10.1 lb Hammer



Support Conditions table with columns: Support Conditions, CBR Range for Aggregate Base Materials (%), CBR Range for Subgrade Soils (%).



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BORING DATA SHEET

PROJECT NAME: Poseyville Road Improvements
PROJECT NO.: 084905.00
LOCATION: Ingersoll and Midland Townships, Michigan
DATE: 4/14/20
DRILLED BY: BM/JM
LOGGED BY: JM/ZM

BORING: SB2
STREET: Poseyville Road
LANE: Southbound Lane
STATION: 320 Feet North of E. Gordonville Road
OFFSET: 8 Feet West of Centerline
ADDRESS: 1413
GROUND EL.: Not Determined

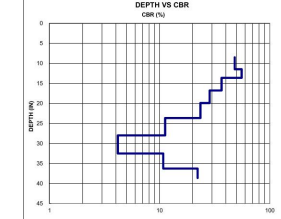
Table with 5 columns: Layer, In., To, Layer, Description, Comment. Rows include ASPHALT PAVEMENT, AGGREGATE BASE, FILL, SILTY CLAY with Sand - Gray - Stiff (CLML), and LEAN CLAY - Frequent Sand Seams - Gray - Stiff (CL).

Depth to Groundwater From Ground Surface Upon Completion: Not Encountered
NOTES: 1) The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 2) HP = Hand Penetrometer. KSF = Kips per Square Foot (Shear Strength). MC = Moisture Content.

DCP TEST RESULTS

Table with 10 columns: No. of Blows, Pen. (mm), Blow Set (mm), Pen./Blow (mm), Blow Factor, Depth from Surface (inches), CBR (%), Comment, Soil Type, Average CBR (%). Rows show data for various depths from 0 to 1125 mm.

Hammer Blow Factor: 1 for 17.6 lb Hammer and 2 for 10.1 lb Hammer



Support Conditions table with columns: Support Conditions, CBR Range for Aggregate Base Materials (%), CBR Range for Subgrade Soils (%).



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BORING DATA SHEET

PROJECT NAME: Poseyville Road Improvements
PROJECT NO.: 084905.00
LOCATION: Ingersoll and Midland Townships, Michigan
DATE: 4/14/20
DRILLED BY: BM/JM
LOGGED BY: JM/ZM

BORING: SB3
STREET: Poseyville Road
LANE: Northbound Lane
STATION: 1,055 Feet North of E. Gordonville Road
OFFSET: 8 Feet East of Centerline
ADDRESS: 1381
GROUND EL.: Not Determined

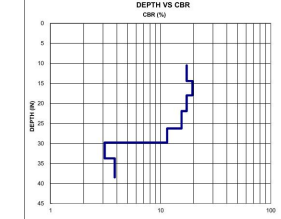
Table with 5 columns: Layer, In., To, Layer, Description, Comment. Rows include ASPHALT PAVEMENT, AGGREGATE BASE, FILL, SILTY CLAY - Brown - Very Stiff (CLML), and SILT - Occasional Clay Seams - Brown - Moist (ML).

Depth to Groundwater From Ground Surface Upon Completion: Not Encountered
NOTES: 1) The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 2) HP = Hand Penetrometer. KSF = Kips per Square Foot (Shear Strength). MC = Moisture Content.

DCP TEST RESULTS

Table with 10 columns: No. of Blows, Pen. (mm), Blow Set (mm), Pen./Blow (mm), Blow Factor, Depth from Surface (inches), CBR (%), Comment, Soil Type, Average CBR (%). Rows show data for various depths from 0 to 1120 mm.

Hammer Blow Factor: 1 for 17.6 lb Hammer and 2 for 10.1 lb Hammer



Support Conditions table with columns: Support Conditions, CBR Range for Aggregate Base Materials (%), CBR Range for Subgrade Soils (%).



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BORING DATA SHEET

PROJECT NAME: Poseyville Road Improvements
PROJECT NO.: 084905.00
LOCATION: Ingersoll and Midland Townships, Michigan
DATE: 4/14/20
DRILLED BY: BM/JM
LOGGED BY: JM/ZM

BORING: SB4
STREET: Poseyville Road
LANE: Southbound Lane
STATION: 2,455 Feet North of E. Gordonville Road
OFFSET: 8 Feet West of Centerline
ADDRESS: 1284
GROUND EL.: Not Determined

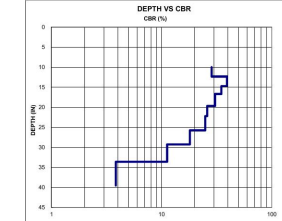
Table with 5 columns: Layer, In., To, Layer, Description, Comment. Rows include ASPHALT PAVEMENT, AGGREGATE BASE, FILL, LEAN CLAY - Brown - Very Stiff (CL), and CLAYEY SILT - Brown - Very Stiff (MLCL).

Depth to Groundwater From Ground Surface Upon Completion: Not Encountered
NOTES: 1) The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 2) HP = Hand Penetrometer. KSF = Kips per Square Foot (Shear Strength). MC = Moisture Content.

DCP TEST RESULTS

Table with 10 columns: No. of Blows, Pen. (mm), Blow Set (mm), Pen./Blow (mm), Blow Factor, Depth from Surface (inches), CBR (%), Comment, Soil Type, Average CBR (%). Rows show data for various depths from 0 to 1150 mm.

Hammer Blow Factor: 1 for 17.6 lb Hammer and 2 for 10.1 lb Hammer



Support Conditions table with columns: Support Conditions, CBR Range for Aggregate Base Materials (%), CBR Range for Subgrade Soils (%).



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BORING DATA SHEET

PROJECT NAME: Poseyville Road Improvements
PROJECT NO.: 084905.00
LOCATION: Ingersoll and Midland Townships, Michigan
DATE: 4/14/20
DRILLED BY: BM/JM
LOGGED BY: JM/ZM

BORING: SB5
STREET: Poseyville Road
LANE: Northbound Shoulder
STATION: 820 Feet North of E. Stewart Road
OFFSET: 15 Feet East of Centerline
ADDRESS: 1193
GROUND EL.: Not Determined

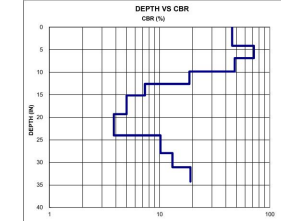
Table with 5 columns: Layer, In., To, Layer, Description, Comment. Rows include SHOULDER AGGREGATE, LEAN CLAY - Frequent Silty Sand Seams - Brown - Stiff (CL), CLAYEY SILT - Brown - Stiff (MLCL), SILT - Occasional Sand Layers - Brown - Stiff (ML), and LEAN CLAY - Brown - Very Stiff (CL).

Depth to Groundwater From Ground Surface Upon Completion: Not Encountered
NOTES: 1) The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 2) HP = Hand Penetrometer. KSF = Kips per Square Foot (Shear Strength). MC = Moisture Content.

DCP TEST RESULTS

Table with 10 columns: No. of Blows, Pen. (mm), Blow Set (mm), Pen./Blow (mm), Blow Factor, Depth from Surface (inches), CBR (%), Comment, Soil Type, Average CBR (%). Rows show data for various depths from 0 to 1000 mm.

Hammer Blow Factor: 1 for 17.6 lb Hammer and 2 for 10.1 lb Hammer



Support Conditions table with columns: Support Conditions, CBR Range for Aggregate Base Materials (%), CBR Range for Subgrade Soils (%).



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BORING DATA SHEET

PROJECT NAME: Poseyville Road Improvements
PROJECT NO.: 084905.00
LOCATION: Ingersoll and Midland Townships, Michigan
DATE: 4/14/20
DRILLED BY: BM/JM
LOGGED BY: JM/ZM

BORING: SB 6
STREET: Poseyville Road
LANE: Southbound Lane
STATION: 215 Feet North of E. Frederick Street
OFFSET: 12 Feet West of Centerline
ADDRESS: 1138
GROUND EL.: Not Determined

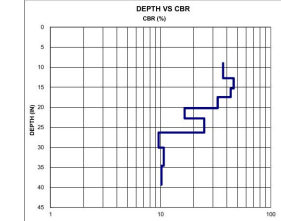
Table with 5 columns: Layer, In., To, Layer, Description, Comment. Rows include ASPHALT PAVEMENT, AGGREGATE BASE, FILL, LEAN CLAY - Occasional Silty Sand Seams and Asphalt Pieces - Brown and Dark Brown - Very Stiff (CL), BURIED TOPSOIL - Silty CLAYEY SILT - Frequent Wood Pieces - Dark Brown (MLCL), FINE SILTY SAND - Frequent Topsoil Seams - Occasional Wood Pieces - Dark Brown - Moist (SM), and FINE SAND - Occasional Wood Pieces - Brown - Wet (SP).

Depth to Groundwater From Ground Surface Upon Completion: 11 Feet
NOTES: 1) The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 2) HP = Hand Penetrometer. KSF = Kips per Square Foot (Shear Strength). MC = Moisture Content. 3) Sample too disturbed for shear strength test

DCP TEST RESULTS

Table with 10 columns: No. of Blows, Pen. (mm), Blow Set (mm), Pen./Blow (mm), Blow Factor, Depth from Surface (inches), CBR (%), Comment, Soil Type, Average CBR (%). Rows show data for various depths from 0 to 1150 mm.

Hammer Blow Factor: 1 for 17.6 lb Hammer and 2 for 10.1 lb Hammer



Support Conditions table with columns: Support Conditions, CBR Range for Aggregate Base Materials (%), CBR Range for Subgrade Soils (%).



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PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: NO SCALE

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MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
PREPARED FOR
SOIL BORING SHEET



Know what's below. Call before you dig.

PLAN SUBMITTALS AND CHANGES

Table with 2 columns: DATE, DESCRIPTION. Row 1: 3/19/21, ISSUED FOR BIDS

REV:
SHT# 71 OF 72
JOB No: 20M0019



BORING DATA SHEET

PROJECT NAME: Poseyville Road Improvements
PROJECT NO.: 084905.00
LOCATION: Ingersoll and Midland Townships, Michigan
DATE: 4/14/20
DRILLED BY: BM/JM
LOGGED BY: JM/ZM

BORING: SB7
STREET: Poseyville Road
LANE: Northbound Lane
STATION: 1,205 Feet North of E Frederick Street
OFFSET: 4 Feet East of Centerline
ADDRESS: 1037
GROUND EL.: Not Determined

Table with 5 columns: Layer, From, To, Thickness, Description, Comment. Rows include Asphalt Pavement, Aggregate Base, Fill, Clayey Silt, and Sandy Clayey Silt.

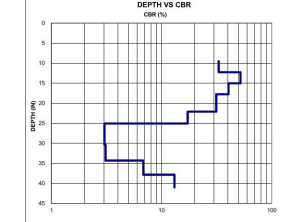
Depth to Groundwater From Ground Surface Upon Completion: Not Encountered
NOTES: 1) The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 2) HP = Hand Penetrometer. KSF = Kips per Square Foot (Shear Strength). MC = Moisture Content.

DCP TEST RESULTS

Table with 10 columns: No. of Blows, Pen. (mm), Blow Set (mm), Pen./Blow (mm), Blow Factor, Depth from Surface (inches), CBR (%), Comment, Soil Type, Average CBR (%).

Hammer Blow Factor: 1 for 17.6 lb Hammer and 2 for 10.1 lb Hammer

*CBR breaklines are based on blow counts performed prior to sampling. Depths are approximate.



Support Conditions table with 3 columns: Support Conditions, CBR Range for Aggregate Base Materials (%), CBR Range for Subgrade Soils (%).



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BORING DATA SHEET

PROJECT NAME: Poseyville Road Improvements
PROJECT NO.: 084905.00
LOCATION: Ingersoll and Midland Townships, Michigan
DATE: 4/14/20
DRILLED BY: BM/JM
LOGGED BY: JM/ZM

BORING: SB8
STREET: Poseyville Road
LANE: Northbound Shoulder
STATION: 300 Feet North of E Miller Road
OFFSET: 14 Feet East of Centerline
ADDRESS: 976
GROUND EL.: Not Determined

Table with 5 columns: Layer, From, To, Thickness, Description, Comment. Rows include Shoulder Aggregate, Fill, Lean Clay, and Clayey Silt.

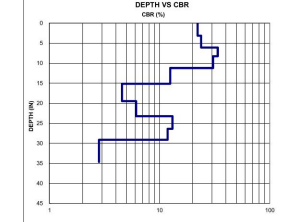
Depth to Groundwater From Ground Surface Upon Completion: Not Encountered
NOTES: 1) The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 2) HP = Hand Penetrometer. KSF = Kips per Square Foot (Shear Strength). MC = Moisture Content. 3) LOI = Loss-on-Ignition

DCP TEST RESULTS

Table with 10 columns: No. of Blows, Pen. (mm), Blow Set (mm), Pen./Blow (mm), Blow Factor, Depth from Surface (inches), CBR (%), Comment, Soil Type, Average CBR (%).

Hammer Blow Factor: 1 for 17.6 lb Hammer and 2 for 10.1 lb Hammer

*CBR breaklines are based on blow counts performed prior to sampling. Depths are approximate.



Support Conditions table with 3 columns: Support Conditions, CBR Range for Aggregate Base Materials (%), CBR Range for Subgrade Soils (%).



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BORING DATA SHEET

PROJECT NAME: Poseyville Road Improvements
PROJECT NO.: 084905.00
LOCATION: Ingersoll and Midland Townships, Michigan
DATE: 4/14/20
DRILLED BY: BM/JM
LOGGED BY: JM/ZM

BORING: SB9
STREET: Poseyville Road
LANE: Northbound Lane (Outside)
STATION: 180 Feet North of E. Nold Street
OFFSET: 14 Feet East of Centerline
ADDRESS: 889
GROUND EL.: Not Determined

Table with 5 columns: Layer, From, To, Thickness, Description, Comment. Rows include Asphalt Pavement, Aggregate Base, Fill, and Clayey Silt.

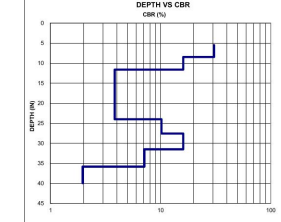
Depth to Groundwater From Ground Surface Upon Completion: Not Encountered
NOTES: 1) The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 2) HP = Hand Penetrometer. KSF = Kips per Square Foot (Shear Strength). MC = Moisture Content.

DCP TEST RESULTS

Table with 10 columns: No. of Blows, Pen. (mm), Blow Set (mm), Pen./Blow (mm), Blow Factor, Depth from Surface (inches), CBR (%), Comment, Soil Type, Average CBR (%).

Hammer Blow Factor: 1 for 17.6 lb Hammer and 2 for 10.1 lb Hammer

*CBR breaklines are based on blow counts performed prior to sampling. Depths are approximate.



Support Conditions table with 3 columns: Support Conditions, CBR Range for Aggregate Base Materials (%), CBR Range for Subgrade Soils (%).



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BORING DATA SHEET

PROJECT NAME: Poseyville Road Improvements
PROJECT NO.: 084905.00
LOCATION: Ingersoll and Midland Townships, Michigan
DATE: 4/14/20
DRILLED BY: BM/JM
LOGGED BY: JM/ZM

BORING: SB10
STREET: Poseyville Road
LANE: Southbound Lane (Outside)
STATION: 1,000 Feet North of E Progress Place
OFFSET: 18 Feet West of Centerline
ADDRESS: 784
GROUND EL.: Not Determined

Table with 5 columns: Layer, From, To, Thickness, Description, Comment. Rows include Asphalt Pavement, Aggregate Base, Fill, and Fine to Medium Clayey Sand.

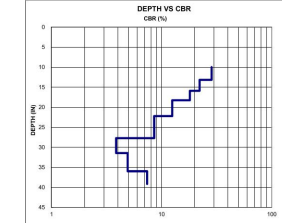
Depth to Groundwater From Ground Surface Upon Completion: Not Encountered
NOTES: 1) The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 2) HP = Hand Penetrometer. KSF = Kips per Square Foot (Shear Strength). MC = Moisture Content.

DCP TEST RESULTS

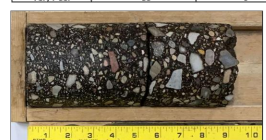
Table with 10 columns: No. of Blows, Pen. (mm), Blow Set (mm), Pen./Blow (mm), Blow Factor, Depth from Surface (inches), CBR (%), Comment, Soil Type, Average CBR (%).

Hammer Blow Factor: 1 for 17.6 lb Hammer and 2 for 10.1 lb Hammer

*CBR breaklines are based on blow counts performed prior to sampling. Depths are approximate.



Support Conditions table with 3 columns: Support Conditions, CBR Range for Aggregate Base Materials (%), CBR Range for Subgrade Soils (%).



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BORING DATA SHEET

PROJECT NAME: Poseyville Road Improvements
PROJECT NO.: 084905.00
LOCATION: Ingersoll and Midland Townships, Michigan
DATE: 4/14/20
DRILLED BY: BM/JM
LOGGED BY: JM/ZM

BORING: SB11
STREET: Poseyville Road
LANE: Northbound Lane (Inside)
STATION: 85 Feet North of Ventura Drive
OFFSET: 8 Feet East of Centerline
ADDRESS: 824
GROUND EL.: Not Determined

Table with 5 columns: Layer, From, To, Thickness, Description, Comment. Rows include Asphalt Pavement, Aggregate Base, Fill, Buried Topsoil, and Fine to Medium Silty Sand.

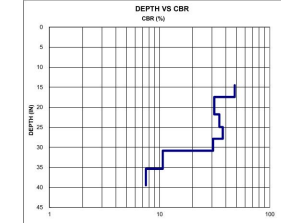
Depth to Groundwater From Ground Surface Upon Completion: Not Encountered
NOTES: 1) The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 2) HP = Hand Penetrometer. KSF = Kips per Square Foot (Shear Strength). MC = Moisture Content. 3) Loss-on-ignition

DCP TEST RESULTS

Table with 10 columns: No. of Blows, Pen. (mm), Blow Set (mm), Pen./Blow (mm), Blow Factor, Depth from Surface (inches), CBR (%), Comment, Soil Type, Average CBR (%).

Hammer Blow Factor: 1 for 17.6 lb Hammer and 2 for 10.1 lb Hammer

*CBR breaklines are based on blow counts performed prior to sampling. Depths are approximate.



Support Conditions table with 3 columns: Support Conditions, CBR Range for Aggregate Base Materials (%), CBR Range for Subgrade Soils (%).



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BORING DATA SHEET

PROJECT NAME: Poseyville Road Improvements
PROJECT NO.: 084905.00
LOCATION: Ingersoll and Midland Townships, Michigan
DATE: 4/14/20
DRILLED BY: BM/JM
LOGGED BY: JM/ZM

BORING: SB12
STREET: Poseyville Road
LANE: Southbound Lane (Inside)
STATION: 1,300 Feet North of Ventura Drive
OFFSET: 8 Feet West of Centerline
ADDRESS: ---
GROUND EL.: Not Determined

Table with 5 columns: Layer, From, To, Thickness, Description, Comment. Rows include Asphalt Pavement, Aggregate Base, Fill, and Fine Sand.

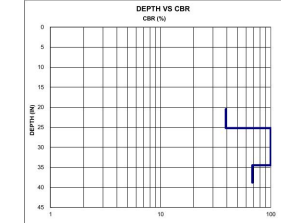
Depth to Groundwater From Ground Surface Upon Completion: Not Encountered
NOTES: 1) The indicated stratification lines are approximate. In situ, the transition between materials may be gradual. 2) HP = Hand Penetrometer. KSF = Kips per Square Foot (Shear Strength). MC = Moisture Content.

DCP TEST RESULTS

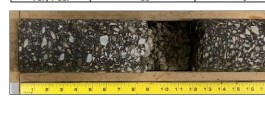
Table with 10 columns: No. of Blows, Pen. (mm), Blow Set (mm), Pen./Blow (mm), Blow Factor, Depth from Surface (inches), CBR (%), Comment, Soil Type, Average CBR (%).

Hammer Blow Factor: 1 for 17.6 lb Hammer and 2 for 10.1 lb Hammer

*CBR breaklines are based on blow counts performed prior to sampling. Depths are approximate.



Support Conditions table with 3 columns: Support Conditions, CBR Range for Aggregate Base Materials (%), CBR Range for Subgrade Soils (%).



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PLAN DATE: MARCH 2021
PROJECT MGR: MJS
REVIEWER: TCL
SCALE: NO SCALE

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PREPARED FOR: MIDLAND COUNTY ROAD COMMISSION
2021 POSEYVILLE ROAD REHABILITATION
SOIL BORING SHEET

PLAN SUBMITTALS AND CHANGES
DATE: 3/19/21
DESCRIPTION: ISSUED FOR BIDS
REV:
SHT# 72 OF 72
JOB No: 20M0019



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