

October 14, 2022

Mr. Brian Chomas Michigan Department of Transportation Innovative Contracting Unit 425 W. Ottawa Street Lansing, MI 48909

Mr. John Crumm Macomb County Department of Roads 117 South Groesbeck Highway Mount Clemens, MI 48043

Re: South Segment Roadway RFC Plans

Design-Build Innovate Mound Road

Job Number: 207178

Dear Mr. Chomas and Mr. Crumm:

The Design-Builder's Project Manager certifies that they have reviewed this submittal and agrees with the information presented.

Steve Lampton

Dan's Excavating, Inc.

Design-Builder Project Manager

#2 45

The Design Quality Control Manager certifies that the design work performed for this submittal has been reviewed in accordance with our Design Quality Manual and the design work generally conforms to the Contract requirements, applicable law, applicable governmental approvals, and Alternative Technical Concepts submitted with the Technical Proposal. Required right-of-way is secured and applicable approvals from utility owners. Applicable comments from MDOT and other reviewing agencies from previous submittals have been resolved.

Charles Stein

AECOM Great Lakes, Inc.

Design Quality Control Manager

Innovate Mound Road Design-Build

JN 207178A CS INFR50000

South Segment Roadway RFC Plans

NB Mound Rd Begin Construction STA 173+71.52 to STA 402+00 SB Mound Rd POB STA 166+50.21 to STA 402+40

SHEET INDEX	
Section 1 - 11 x 17 Road	Plans
Title Sheet	1
Project Information Sheet	2-3
Legend Sheets	4-6
Note Sheet	7
Typical Cross Sections	8-16
Miscellaneous Details	17-21
Survey Information Sheets	22-29
Local Road Profile Sheets	30-34
Guardrail Detail Sheets	35-37
Detail Grades	38-113
Section 1 – ProjectPDF 1 Ro	ad Plans
Alignment	201-202
Removal, Construction, Drainage, Grading and Sidewalk Plan	203-210
Section 1 – ProjectPDF (Profile)	Road Plans
Profile	301-304

	2019 TRAFFIC	DATA	2050 TRAFFIC I	SPEED DATA		
ROAD	ADT	COMM	ADT	COMM	DESIGN	POSTED
MOUND ROAD	77,550	14.1%	85,096	14.1%	55	50







NO SCALE

PUBLIC UTILITIES

The existing utilities listed below and shown on these plans represent the best information available as obtained on our surveys. This information does not relieve the contractor of the responsibility to be satisfied as to it's accuracy and the location of existing utilities.

Name Of Owner Type Of Utility

Communications

Communications

Communications

Electric

Water

Gas

123.NET,INC Attention: AMANDA GRIFFITH

24700 Northwestern Hwy, Suite 700

Southfield, MI 48075

Phone: (248) 228-8223; (906)-370-2767

Email: agriffith@123.net

Communications Attention: DAREN HECKMAN

100 S. Main St.

Mount Clemens, MI 48043 Phone: (586) 549-8961 Email: dh7851@att.com

Attention: ERIC BRISKEY

100 S. Main St,

Mount Clemens, MI 48043 Phone: (586) 549-8961 Email: eb1719@att.com

CONSUMERS ENERGY

Attention: JEFFREY PAROL Phone: (586) 549-8961

Email: Jeffrey.parol@cmsenergy.com

CONSUMERS ENERGY Gas Attention: BOB RATKUS

Phone: (586) 549-8961

Email: Robert.Ratkus@cmsenergy.com

COMCAST Communications Attention: SHEILA SCHUCH

25626 Telegraph Rd, Southfield, MI 48033

Phone: (248) 809-2715; 248-977-8996 Email: Sheila Schuch2@comcast.com

COMCAST

Attention: WARREN SETTY 25626 Telegraph Rd, Southfield, MI 48033

Phone: (248) 809-2715; 248-977-8996 Email: Warren Setty@comcast.com

DETROIT EDISON

Attention: STEPHANIE BERES Phone: (248) 416-0192

Email: stephanie.beres@dteenergy.com

GREAT LAKES WATER AUTHORITY Water

Attention: DAN MILLER 735 Randolph, Suite 1900, Detroit MI 48226 Phone: (313) 267-4857

Email: daniel.miller@glwater.org

GREAT LAKES WATER AUTHORITY

Attention: ANUPAM KUMAR 735 Randolph, Suite 1900, Detroit, MI 48226 Phone: (313) 267-4857

Email: anupam.kumar@glwater.org

GREAT LAKES WATER AUTHORITY

Attention: DALE ECHOLS 735 Randolph, Suite 1900, Detroit, MI 48226 Phone: (313) 267-4857

Email: dale.echols@glwater.org

MACOMB COUNTY ROAD COMM ELECTRIC SHOP Municipal

Water

Municipal

Municipal

Municipal

Municipal

Communications

Communications

Gas

Gas

Gas

Attention: CHRIS FLORKA 117 South Greosbeck Hwy, Mount Clements, MI 48043 Phone: (586) 463-8671 Email: cflorka@rcmcweb.org

MACOMB COUNTY PUBLIC WORKS OFFICE

Attention: STAN SLANEC Phone: (586) 307-8274 Email: missdig@macombgov.org

OAKLAND COUNTY DRAIN COMMISSIONER

Attention: CHRIS GIANAKOS 1 Public Works Dr, Building 95W,

Waterford, MI 48328 Phone: (248) 858-1116 Email: gianaosc@oakgov.com

SHELBY TOWNSHIP DPW Attention: PAT MCMAHON

6333 23 Mile Rd,

Shelby Township, MI 48316 Phone: (586)-731-5990

Email: MISSDIG@SHELBYTWP.ORG

STERLING HEIGHTS CITY Attention: BRENT BASHAW

40555 Utica Rd,

Sterling Heights, MI 48313 Phone: (586) 446-2721

Email: bbashaw@sterling-heights.net

WIDE OPEN WEST

Attention: BRUCE ROACH 37150 Plymouth Rd, Livonia, MI 48150 Phone: (248) 506-7951

Email: bruce.roach@wowinc.com

WIDE OPEN WEST Attention: SHAWN DALEY 37150 Plymouth Rd, Livonia, MI 48150 Phone: (248) 506-7951

Email: shawn.daley@wowinc.com

SUNOCO PIPELINE LP Attention: DEB SCHNECK

525 Fritztown Rd, Sinking Spring, PN 19608 Phone: (610) 670-3258

Email: debra.schneck@energytransfer.com

SUNOCO PIPELINE LP

Attention: JOHN RUSZKAY 525 Fritztown Rd, Sinking Spring, PN 19608 Phone: (610) 670-3258

Email: john.ruszkay@energytransfer.com

SUNOCO PIPELINE LP Attention: RICK JOYCE 525 Fritztown Rd. Sinking Spring, PN 19608 Phone: (610) 670-3258

Email: richard.joyce@energytransfer.com

CLEAR RATE COMMUNICATIONS INC.

Attention: RICK ANDRICKS 2600 W. Big Beaver Rd, Suite 450,

Troy, MI 48084 Phone: (419) 551-7247

Email: randricks@clearrate.com

Communications

MCI/ VERIZON BUSINESS Attention: MICHAEL BRUNING 24242 Northwestern Hwy, Southfield, MI 48075 Phone: (248) 794-7906

Email: Michael.bruning@VerizonWireless.com

MCI/ VERIZON BUSINESS Communications Attention: MARLON REDD

24242 Northwestern Hwy, Southfield, MI 48075 Phone: (248) 794-7906

Email: marlon.redd@verizon.com

MCI/ VERIZON BUSINESS Communications

Attention: JOHN IRVING 24242 Northwestern Hwv. Southfield, MI 48075 Phone: (248) 794-7906

Email: john.t.irving@verizon.com

CROWN CASTLE/ LIGHTTOWER FIBER NETWORK Communications

Attention: DOUG FISHER 755 Big Beaver Rd, Suite 200, Troy, MI 48084

Phone: (947) 252-1259

Email: doug.fisher@crowncastle.com

WARREN CONSOLIDATED SCHOOLS Municipal

Attention: TINA SNOBLEN 3529 W. Genesee, Suite 6, Lapeer, MI 48446 Phone: (586)-698-4777

Email: Tsnoblen@fiberlinkinc.com

WARREN CITY Municipal Attention: TINA GAPSHES

1 City Square, Warren, MI 48093 Phone: (586) 759-9300

Email: tgapshes@cityofwarren.org

LEVEL 3 NOW LUMEN Communications

Attention: DAVID HUCKFELDT 19675 W 10 Mile Rd, Southfield, MI 48075 Phone: (414) 224-6767

Email: dave.huckfeldt@lumen.com

WINDSTREAM COMMUNICATIONS

Attention: CHRIS ROGERS 800 N Durand Rd, Corunna, MI 48817

Phone: (812)-459-6649 Email: christopher.rogers@windstream.com

Attention: GRETCHEN RAILLING

27175 Energy Way, Novi. MI 48377 Phone: (586) 707-5773 Email: grailling@itctransco.com

Communications

Communications

Electric

Attention: GARY KIRSH 27175 Energy Way, Novi, MI 48377

Phone: (586) 707-5773 Email: gkirsh@itctransco.com

MCDR Utilities/COMTEC Attention: ADAM MERCHANT 117 S Groesbeck Hwy,

Mt Clemens, MI 48043 Phone: (586) 840-3064 Email: amerchant@rcmcweb.org

UTICA COMMUNITY SCHOOLS

Attention: TINA SNOBLEN 3529 W. Genesee, Suite 6, Lapeer, MI 48446 Phone: (586)-698-4777 Email: Tsnoblen@fiberlinkinc.com

> Innovate Mound Project REVIEW

APPROVED AS NOTED ACCEPTED 🗹 ACCEPTED AS NOTED AMEND AND RESUBMIT REJECTED - SEE REMARKS

APPROVED

Flectric

Electric

Electric

StunGiller



DATE 10/28/2022

PROJECT INFORMATION SHEET FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: DATE: 10/12/22 CS: INFR50000 DRAWING SHEET AECOM | MOUND SECT 1 DESCRIPTION DATE DESCRIPTION NO SCALE DESIGN UNIT: XXX JN: 207178A IO. DATE AUTH NO. PROJ FILE: 207178 Project Info Sheet.doc TSC: MACOMB

NOTES APPLYING TO STANDARD PLANS

Where the following items are called for on plans, they are to be constructed according to the standard plan given below opposite each item unless otherwise indicated.

ROAD DRAINAGE STRUCTURES COVER B COVER C COVER D MONUMENT BOXES COVER G COVER J COVER K COVER Q BRIDGE APPROACH CURB & GUTTER CURB RAMP AND DETECTABLE WARNING DETAILS DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALK	R-1-G R-7-F R-8-D R-9-D R-11-E R-12-E R-14-D R-15-G* R-18-F R-27-F*
COVER B COVER C COVER D MONUMENT BOXES COVER G COVER J COVER K COVER Q BRIDGE APPROACH CURB & GUTTER CURB RAMP AND DETECTABLE WARNING DETAILS DRIVEWAY OPENINGS & APPROACHES AND CONCRETE	R-7-F R-8-D R-9-D R-11-E R-12-E R-14-D R-15-G* R-18-F R-27-F*
COVER C COVER D MONUMENT BOXES COVER G COVER J COVER K COVER Q BRIDGE APPROACH CURB & GUTTER CURB RAMP AND DETECTABLE WARNING DETAILS DRIVEWAY OPENINGS & APPROACHES AND CONCRETE	R-8-D R-9-D R-11-E R-12-E R-14-D R-15-G * R-18-F R-27-F * R-28-J *
COVER D MONUMENT BOXES COVER G COVER J COVER K COVER Q BRIDGE APPROACH CURB & GUTTER CURB RAMP AND DETECTABLE WARNING DETAILS DRIVEWAY OPENINGS & APPROACHES AND CONCRETE	R-9-D R-11-E R-12-E R-14-D R-15-G* R-18-F R-27-F* R-28-J*
MONUMENT BOXES COVER G COVER J COVER K COVER Q BRIDGE APPROACH CURB & GUTTER CURB RAMP AND DETECTABLE WARNING DETAILS DRIVEWAY OPENINGS & APPROACHES AND CONCRETE	R-11-E R-12-E R-14-D R-15-G * R-18-F R-27-F * R-28-J *
COVER G COVER J COVER K COVER Q BRIDGE APPROACH CURB & GUTTER CURB RAMP AND DETECTABLE WARNING DETAILS DRIVEWAY OPENINGS & APPROACHES AND CONCRETE	R-12-E R-14-D R-15-G * R-18-F R-27-F * R-28-J *
COVER J COVER K COVER Q BRIDGE APPROACH CURB & GUTTER CURB RAMP AND DETECTABLE WARNING DETAILS DRIVEWAY OPENINGS & APPROACHES AND CONCRETE	R-14-D R-15-G * R-18-F R-27-F * R-28-J *
COVER K COVER Q BRIDGE APPROACH CURB & GUTTER CURB RAMP AND DETECTABLE WARNING DETAILS DRIVEWAY OPENINGS & APPROACHES AND CONCRETE	R-15-G * R-18-F R-27-F * R-28-J *
COVER Q BRIDGE APPROACH CURB & GUTTER CURB RAMP AND DETECTABLE WARNING DETAILS DRIVEWAY OPENINGS & APPROACHES AND CONCRETE	R-18-F R-27-F * R-28-J *
BRIDGE APPROACH CURB & GUTTER CURB RAMP AND DETECTABLE WARNING DETAILS DRIVEWAY OPENINGS & APPROACHES AND CONCRETE	R-27-F * R-28-J *
CURB RAMP AND DETECTABLE WARNING DETAILS DRIVEWAY OPENINGS & APPROACHES AND CONCRETE	R-28-J*
DRIVEWAY OPENINGS & APPROACHES AND CONCRETE	
	R-29-I
CONCRETE CURB AND CONCRETE CURB & GUTTER	R-30-G
INTEGRAL CURB AND INTEGRAL CURB & GUTTER	R-31-F
APPROACH CURB & GUTTER, DOWNSPOUTS (FOR BRIDGE BARRIER ON RURAL HIGHWAYS)	R-32-F *
APPROACH CURB & GUTTER, DOWNSPOUTS (FOR EXISTING RAILLINGS)	R-32-SD *
ISOLATION JOINT DETAILS	R-37-B
TRANSVERSE PAVEMENT JOINTS (PLAIN CONCRETE PAVEMENT)	R-39-K
LOAD TRANSFER ASSEMBLIES FOR TRANSVERSE JOINTS	R-40-H
LONGITUDINAL PAVEMENT JOINTS	R-41-H
TYPICAL JOINT LAYOUTS FOR CONCRETE PAVEMENT	R-42-F
LOCATION OF TRANSVERSE JOINTS IN PLAIN CONCRETE PAVEMENT	R-43-I
PAVEMENT REINFORCEMENT FOR BRIDGE APPROACH	R-45-J
GUARDRAIL AT BRIDGES AND EMBANKMENTS	R-59-E
GUARDRAIL TYPES A, B, BD, T, TD, MGS-8 & MGS-8D	R-60-J *
GUARDRAIL APPROACH TERMINAL TYPE 2M	R-62-H *
GUARDRAIL DEPARTING TERMINAL TYPES B, T, & MGS	R-66-E *
GUARDRAIL ANCHORAGE, BRIDGE, DETAILS	R-67-G *
GUARDRAIL ANCHORAGE, BRIDGE, DETAILS (FOR EXISTING RAILINGS)	R-67-SD *
GRANULAR BLANKET, UNDERDRAINS, OUTLET ENDINGS FOR UNDERDRAINS, AND SEWER BULKHEADS	R-80-E
BEDDING AND FILLING AROUND PIPE CULVERTS	R-82-D
UTILITY TRENCHES	R-83-C
SOIL EROSION & SEDIMENTATION CONTROL MEASURES	R-96-E
SEEDING AND TREE PLANTING	R-100-H
GRADING CROSS-SECTIONS	R-105-D
SUPERELEVATION AND PAVEMENT CROWNS	R-107-H
GUARDRAIL AT INTERSECTIONS	Special Detail 21 *

^{*} Denotes Special Detail

NO. DATE AUTH

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:

NO. DATE AUTH

DESCRIPTION

DESCRIPTION



	DATE: 10/12/22	CS: INFR50000	PROJECT INFORMATION SHEET	DRAWING
	DESIGN UNIT: XXX	JN: 207178A		MOUND PROJ
ILE: 207178 Project Info Sheet.doc	TSC: MACOMB			002
ILE: 20/1/8 Project Into Sneet.doc	ISC: MACOMB			002

Innovate Mound Project **REVIEW**

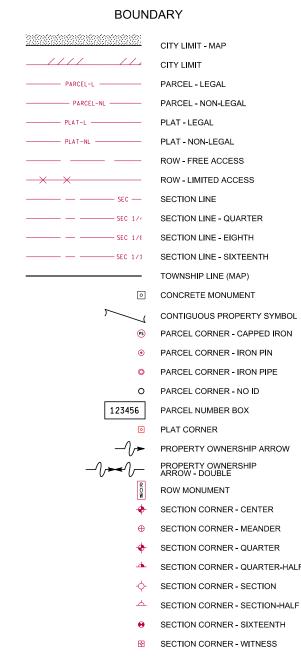
APPROVED ☐
APPROVED AS NOTED ☐
ACCEPTED ☑
ACCEPTED AS NOTED ☐
AMEND AND RESUBMIT ☐
REJECTED - SEE REMARKS ☐
project requirements indicated in Contact

o, which are the sole responsibility of the

DATE 10/28/2022

SURVEY GENERAL △ ALIGNMENT POINT MONUMENT MONUMENT BOX CONTROL △CP CONTROL POINT **BM** BENCHMARK △ REFERENCE - GPS

REFERENCE - NGS REFERENCE - USGS



MONUMENT PRESERVATION

(PRESERVE) PRESERVE MONUMENT (PROTECT) PROTECT MONUMENT

GENERAL LABELING

GENERAL

LEFT TURN ARROW

TRAFFIC FLOW ARROW

REMOVAL

 \bigcirc ABANDON

(B) BULKHEAD

(0) CLEARING (R) REMOVE

(SALV) SAL VAGE

(\$)

CONSTRUCTION

SAVE

(ADJ) ADJUST

(ADJ-B) ADJUST - STRUC COVER WITH TYPE

(ADJ-B/O) ADJUST - BY OTHERS

REMOVAL AND CONSTRUCTION

(REL-1)

RELOCATE - WITH CASE NUMBER

(REL-B/0)

RELOCATE - BY OTHERS

CONSTRUCTION LIMITS

BORINGS

⊗ RH# BORING

STRUCTURES

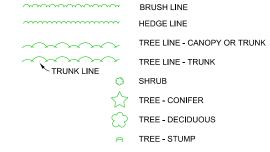
BEAM UNDERCLEARANCE

REFERENCE POINT

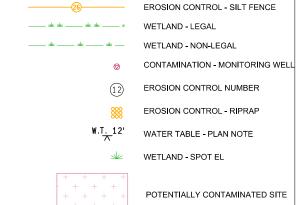
S01 OF 12345

STRUCTURE NO. + CONTROL SEC. LABEL

VEGETATION



ENVIRONMENTAL



ROADSIDE / SITE

ANTENNA

BIG ROCK

FLAG POLE

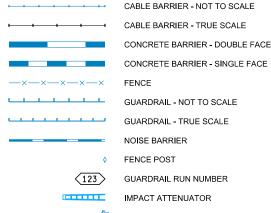
PICNIC STOVE

PICNIC TABLE

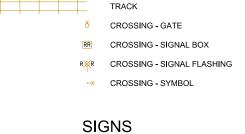
SATELLITE DISH

EXISTING ITEMS ARE REPRESENTED BY THIN LINE WEIGHTS.

PROPOSED ITEMS ARE REPRESENTED BY HEAVIER LINE WEIGHTS.



RAILROAD

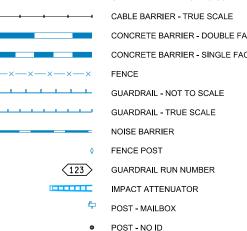


→ POST - DOUBLE POST - SINGLE STRUCTURE - CANTILEVER (EXISTING) STRUCTURE - CANTILEVER STRUCTURE - TRUSS (EXISTING) STRUCTURE - TRUSS SS SUSPENDED (EXISTING)

MAINTAINING TRAFFIC

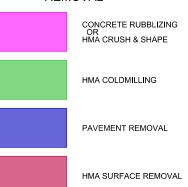


BARRIERS



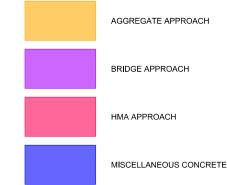
SURFACING

REMOVAL

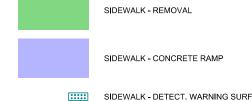


COMPOSITE PAVEMENT REMOVAL

PROPOSED



SIDEWALK





SIDEWALK - LANDING

DRAWING SHEET

MOUND SECT :

.EGEND

(SWR-F) SIDEWALK - RAMP LABEL

TYPICAL SECTION



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: DESCRIPTION







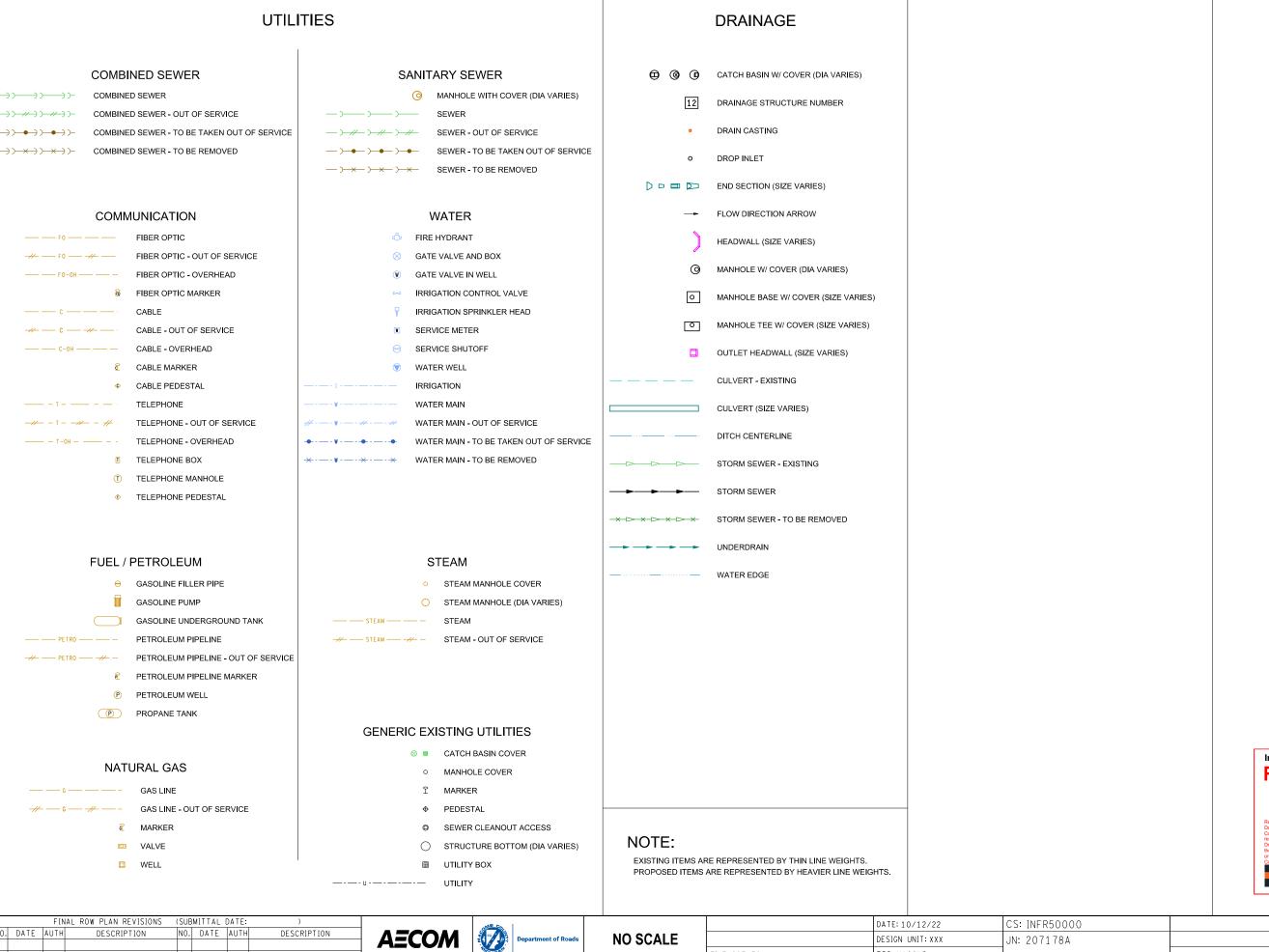
NOTE:

.E	
	FILE: 207178_Legend.dgn

	DATE: 10/12/22	
	DESIGN	UNIT: XXX
ILE: 207178_Legend.dgn	TSC: MA	СОМВ

CS: INFR50000 JN: 207178A

LEGEND



Innovate Mound Project REVIEW

APPROVED APPROVED AS NOTED ACCEPTED 🗹 ACCEPTED AS NOTED

AMEND AND RESUBMIT REJECTED - SEE REMARKS

BY StunGiller

DATE 10/28/2022

LEGEND DRAWING SHEET MOUND SECT 1 _EGEND TSC: MACOMB FILE: 207178_Legend.dgn

ELECTRICAL CONTROLLER CABINET - PAD MOUNTED Hh HANDHOLE Mh MANHOLE POLE UTILITY - EXISTING POLE UTILITY TRANSFORMER - PAD MOUNTED TRANSFORMER - POLE MOUNTED CABLE - TO BE REMOVED

CABLE OVERHEAD

CABLE IN CONDUIT

OUTLET SINGLE OUTLET TELEPHONE SERVICE METER SWITCH SWITCH THREE WAY → CABLE OVERHEAD - TO BE REMOVED. CABLE IN CONDUIT - TO BE REMOVED LIGHTING CABLE IN CONDUIT - DIRECTIONAL BORE

ARCHITECTURAL

==	EXIT SIGN WITH EMERGENCY LIGHT
\boxtimes	LIGHT RECESSED FIXTURE
\(\rangle \)	MOTOR
1	OUTLET BOX

SERVICE DISCONNECT

WALL BRACKET FIXTURE

CONTROL PANEL - EXISTING

CONTROL PANEL

LIGHT STANDARD EXISTING -*R&S TO BE REMOVED & SALVAGED

LIGHT STANDARD DOUBLE ARM - EXISTING \$-0-\$

LIGHT STANDARD DOUBLE ARM

LIGHT STANDARD POST TOP - EXISTING

LIGHT STANDARD POST TOP

LIGHT STANDARD SINGLE ARM - EXISTING

LIGHT STANDARD SINGLE ARM

LIGHT POLE - TEMPORARY

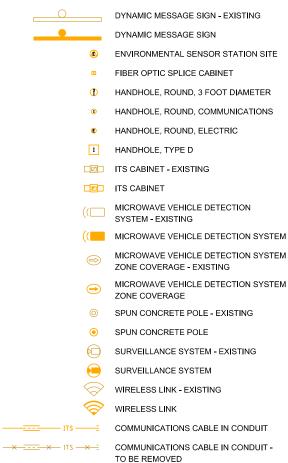
LUMINAIRE WALL MOUNTED UNDERBRIDGE - EXISTING

LUMINAIRE WALL MOUNTED UNDERBRIDGE

TOWER LIGHTING UNIT - EXISTING \circ_{T}

TOWER LIGHTING UNIT $\oplus_{\mathsf{T}_{-}}$

ITS / SIGNALS



ANTENNA CASE SIGN (1-WAY OR 2-WAY) CASE SIGN (4-WAY) DEDICATED SHORT RANGE COMMUNICATIONS CONTROLLER CABINET - POLE MOUNTED CONTROL EMERGENCY PREEMPTION OPTICOM DILEMMA ZONE DETECTION GLOBAL POSITIONING SYSTEM MODULE **GUY ANCHOR** PEDESTRIAN PEDESTAL PEDESTRIAN PUSHBUTTON POLE MAST ARM (LENGTH VARIES) - EXISTING POLE MAST ARM (LENGTH VARIES) POLE STRAIN

ROAD SIGN W/ FLASHING SIGN OPTICAL (1-WAY)

SIGNAL HANDHOLE - POLYMER CONCRETE

SIGNAL HANDHOLE - 2 FOOT ROUND

SIGNAL HANDHOLE - 3 FOOT ROUND

SIGNAL HANDHOLE - 2 FOOT SQUARE

TS SIGNAL HANDHOLE - 4 FOOT SQUARE

SIGNAL HEAD PEDESTRIAN - EXISTING

SIGNAL HEAD PEDESTRIAN 1-WAY

SIGNAL HEAD PEDESTRIAN 2-WAY

SIGNAL HEAD VEHICLE 1-WAY - EXISTING

SIGNAL HEAD VEHICLE 2-WAY - EXISTING

SIGNAL HEAD VEHICLE 3-WAY - EXISTING

SIGNAL HEAD VEHICLE 4-WAY - EXISTING

SIGNAL HEAD VEHICLE 1-WAY

SIGNAL HEAD VEHICLE 2-WAY

SIGNAL HEAD VEHICLE 3-WAY

SIGNAL HEAD VEHICLE 4-WAY

SIGNAL HEAD VEHICLE BAGGED

SIGNAL HEAD VEHICLE PROGRAMMABLE

VEHICLE DETECTION CAMERA

VEHICLE DETECTION CAMERA - HEMISPHERICAL

VEHICLE DETECTION LOOP

VEHICLE DETECTION - RADAR

WIRELESS VEHICLE DETECTION RADIO RECEIVER

WIRELESS VEHICLE DETECTION RADIO REPEATER

WIRELESS VEHICLE DETECTION SENSOR - EXISTING

WIRELESS VEHICLE DETECTION SENSOR

CABLING / WIRING DIAGRAM

CIRCUIT BREAKER COILED WIRE FUSE FUSE SWITCH GROUND ILLUMINATED CASE SIGN **METER** SERVICE DISCONNECT

SIGNAL HEAD



APPROVED APPROVED AS NOTED □ ACCEPTED 🗹 ACCEPTED AS NOTED AMEND AND RESUBMIT

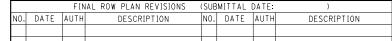
DRAWING SHEET

MOUND SECT :

.EGEND

REJECTED - SEE REMARKS NO THE

EXISTING HEMS ARE REPRESENTED BY THE SELECTION OF THE WEIGHTS DATE 10/28/2022









GENERAL NOTES

UTILITIES

MISS DIG/UNDERGROUND UTILITY NOTIFICATION

For the protection of underground utilities and in conformance with MCL 460.171 et seq, the Contractor shall contact MISS DIG System, Inc. by phone at 811 or 800-482-7171 or via the web at either elocate.missdig.org for single address or rte.missdig.org, a minimum of 3 work days prior to excavating, excluding weekends and holidays.

ROW / REAL ESTATE

PROPERTY OWNERS

The names of property owners shown on the plans are for information only, and their accuracy is not guaranteed.

MARKETABLE TIMBER

Marketable timber shall be handled in accordance with Section 201.03 of the 2012 Standard Specifications for Construction.

LAWN SPRINKLER SYSTEMS AND LANDSCAPING

Owners of existing lawn sprinkler systems and/or landscaping shall be notified (in writing with a copy sent to the Engineer) by the Contractor two weeks in advance of any work to be done that will affect those systems and/or landscaping. If the property owner fails to relocate the lawn sprinkler system prior to the Contractor beginning work, and if the Contractor cuts the system during the construction, the Contractor shall cap the system pipe and witness the location of the cap with a wooden stake for the property owner's use. The Contractor shall place the salvaged sprinkler heads on the property owner's property. If the property owner fails to relocate the landscaping prior to the Contractor beginning work, the Contractor shall carefully salvage the landscaping items and stockpile them on the property owner's property for the property owner. Any other modification to the lawn sprinkler systems and/or landscaping is the responsibility of the owner and is not part of this contract. This work is included in other items of the project.

SURVEY

ADJUSTING MONUMENT BOXES

All government corners on this project shall be preserved, whether shown or not. It may be necessary to place or adjust monument boxes, as required.

OLD PLANS

OLD ROAD PLANS

The following old road plans were referred to in the design of this project.

W.O. 1803, W.O. 1815, 30084A, 106729A, 32178A, 113218A, 203267

In addition, other old road plans that predate this project may be available. These plans may be reviewed at the Macomb County Department of Roads during normal working hours.

DETAILED GRADES

GRADES FOR INTERSECTIONS

All intersections are to be considered as complete units and their grades determined before construction is started.

SIGNALIZED SIDE ROAD TO TRUNK LINE INTERSECTIONS:

The normal edge of pavement grade of the proposed trunk line adjacent to the side road intersection shall be carried across the intersection wherever possible. The side road approach grade and

crown shall be established to provide for drainage and to assure suitable rideability of the side road.

SIGNALIZED TRUNK LINE TO TRUNK LINE INTERSECTIONS:

The grades to be established shall provide for drainage and rideability of each trunk line. Crowns may be varied on each trunk line to best fit the longitudinal grades of each trunk line.

UNSIGNALIZED SIDE ROAD TO TRUNK LINE INTERSECTIONS:

The normal edge of pavement grade of the proposed trunk line adjacent to the side road intersection shall be carried across the intersection. The side road approach grade and crown shall be established to provide for drainage.

SIDEWALK AND SIDEWALK RAMP GRADES

All sidewalk and sidewalk ramp grades shall be staked according to Standard Plan R-28 series and as shown on the plans. Prior to constructing the sidewalk and sidewalk ramps, the Engineer will verify the grades and authorize the construction of the sidewalk and sidewalk ramps

EARTHWORK

SLOPES

Class A slopes shall be constructed on this project.

EARTH DISTURBANCE LIMITS

The earth disturbance limit for this project will be limited to 10' beyond the slope stake line or to the ROW line whichever is less for all areas except for wetland areas. For areas adjacent to wetlands, the earth disturbance limit will be limited to the slope stake line. Restoration measures have been included in this set of plans for the approved areas of disturbance. The Contractor shall submit an earth change plan for any work beyond the approved limits to the Engineer to review for approval prior to the disturbance. All costs for obtaining and executing an approved earth change plan, including restoration, shall be at the Contractor's expense.

SOIL EROSION MEASURES

Appropriate soil erosion and sedimentation control measures shall be in place prior to earth-disturbing activities. Place turf establishment items as soon as possible on potential erodable slopes as directed by the Engineer. Critical ditch grades shall be protected with either sod or seed/mulch or mulch blanket as directed by the Engineer.

PEAT EXCAVATION AT CULVERTS

At the time of peat excavation, the specific treatment called for on plans at any given swamp shall be widened out at culverts to provide stable foundation for the entire length of culvert, including head walls or end sections.

BASES

AGGREGATE BASE

Aggregate bases shall use aggregate 21AA, unless otherwise specified.

DRAINAGE

CULVERT EXTENSIONS

The extension of existing culverts on this project may require extra work to obtain a tight seal at the joint connecting new culvert pipe to existing culvert pipe. The joint between the existing and new pipes shall be constructed according to the 2012 Standard Specifications for Construction. Any extra work required to obtain tight joints will not be paid for separately but will be included in compensation for extending culverts

DRAINAGE MARKER POSTS

Drainage marker posts shall not be placed in medians less than 150' wide

ILLICIT CONNECTIONS TO STORM WATER SYSTEM

Connections to existing storm conveyance systems not shown on the plans must be reconnected with minimal interruption in service. Size, type and location by station and offset and any suspect illicit discharge observed shall be reported to the Engineer prior to reconnecting. Contractor shall proceed as directed by the Engineer.

TEMPORARY BULKHEADS

Temporary bulkheads may be required for the part width construction of the culverts and sewers. All cost associated with the temporary bulkheads are included in the item of the pipe.

PAVEMENT

PAVEMENT AND HMA SURFACE REMOVAL QUANTITIES

Pavement and HMA Surface removal as shown on the plans will be at the discretion of the Engineer. If in his/her judgment, areas of pavement may be left in place, or additional areas added to provide the proper cross-section and base. Changes will be made in the quantities.

SOIL BORINGS AND/OR PAVEMENT CORES

The soil boring logs and/or pavement cores represent point information. No inference should be made that subsurface or pavement conditions are the same at other locations.

CONCRETE HAND FINISHING

Hand finishing of concrete pours to be struck off and consolidated by hand methods will be permitted on variable width lanes and lanes formed by flexible forms for short radius curves, as directed by the Engineer.

BRIDGE APPROACHES

SHOULDER TRANSITION AT BRIDGES WITH EROSION CONTROL CURB AND GUTTER

Transition the normal shoulder width with erosion control curb and gutter (Type D) to the shoulder width at the bridge approach curb and gutter in 12.5' (one guardrail beam length) prior to the bridge approach curb and gutter.

GUARDRAIL

GUARDRAIL POST LENGTH

When the plans specify guardrail to be placed at the shoulder hinge point, rather than as specified on Standard Plan R-60 series, 8' (type B or T) or 9' (type MGS-8) posts shall be provided, with the additional length embedded for added stability. The additional post length will not be paid for separately but shall be included in the appropriate guardrail pay item.

GUARDRAIL AT BRIDGE APPROACH

Guardrail shall be extended parallel to the existing bridge railing until past the bridge approach curb & gutter before flaring to shoulder.

GUARDRAIL AT INTERSECTIONS

If curved beam guardrail Type T is to be used at intersections, it shall be constructed similar to the detail for Type B guardrail in Special Detail 21 and includes the use of CRT posts and the removal of the wood blocks.

GUARDRAIL POST HOLES

Posts placed within 3' of existing culverts shall be in drilled holes and shall not be driven.

TURF ESTABLISHMENT

SEED MIXTURE

The symbol for the permanent turf seed mixture on this project is symbol TUF.

REST AREA AND/OR LANDSCAPING

Existing vegetation shall not be damaged during construction operations, per the 2012 Standard Specifications for Construction.

Heavy equipment will not be allowed to work outside the slope stake lines in the wooded portion of the site. All equipment to be used must be approved by the engineer prior to beginning work.

Storage of equipment and materials will be restricted to areas designated by the Engineer. No equipment is permitted within the drip line of existing trees to remain.

Branches of all trees to be saved shall not be removed or damaged by construction equipment. If removal of lower branches is necessary, contact Roadside Development or the Region Resource Specialist for proper methods.

Do not trench within the drip line of existing trees to remain unless specifically approved by the Engineer.

Contractor shall promptly restore any property damage at no expense to MDOT

All raw fill or cut slopes will be covered with slope restoration according to the special provision and time limitations specified in section 816.03 of the 2012 Standard Specifications for Construction.

All excavated material will become the property of the contactor. Any excavated material not used on the project will be removed from the site and disposed of in accordance with section 205.03.P. of the 2012 Standard Specification for Construction and any applicable state and/or local ordinances.

No cereal rye seeding shall be used on this project.

Protect existing sidewalks from damage.

Plant material, soil, fertilizer and mulch will be inspected/approved by the Engineer/Region Resource Specialist or the Landscape Architect prior to installation. Plant inspection may occur at the nursery source or when plants arrive on site.

Entire planting bed will be mulched with 5-6" of shredded hardwood bark mulch and paid for as Site Preparation.

Remove unacceptable plants fall inspection. Remove entire plant (including root ball) and dispose of offsite. Restore planting hole to existing conditions according to Sections 107.7 and 816 of the 2012 Standard Specifications for Construction.

Final staking may be adjusted to avoid conflicts with utilities and legally permitted billboards.

ENVIRONMENTAL

PROTECTED TURTLES

Historical records for protected turtles exist within or near this project. These turtle species warrant special consideration as they are rare in Michigan. In the event turtles are observed within the construction zone, move the turtle(s) into any attempting to cover, away from physical work activities. If possible to a photo and remined attempting to the Engineer.

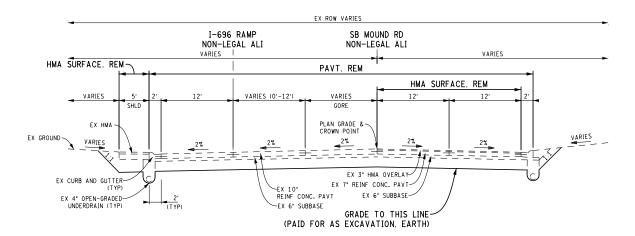
NOTE SHEET

ACCEPTED A ACCEPTED A

DRAWING SHEET

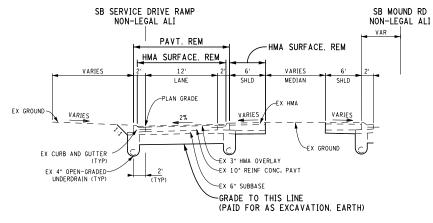
MOUND SECT 1

NOTE



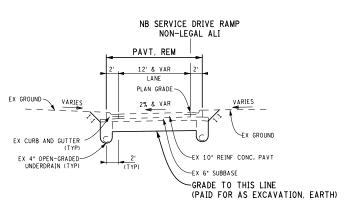
EXISTING NORMAL TYPICAL SECTION APPLIES TO:

SB MOUND RD POB STA 166+50.21 TO STA 171+18.25



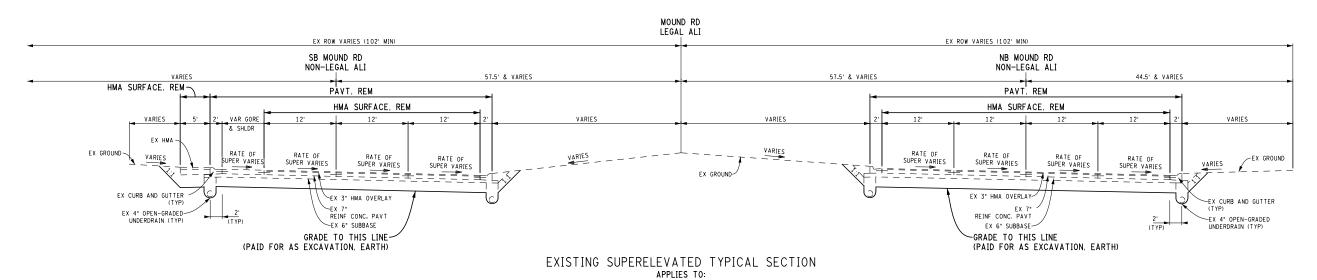
EXISTING TYPICAL SECTION APPLIES TO:

SB SERVCE DRIVE RAMP STA 400+98.21 TO STA 403+11.73



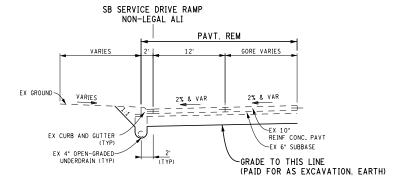
EXISTING TYPICAL SECTION APPLIES TO:

NB SERVCE DRIVE RAMP STA 6+75.84 TO STA 8+23.83



SB MOUND RD STA 171+18.25 TO STA 177+00.00

NB MOUND RD STA POB 173+71.52 TO STA 177+00.00

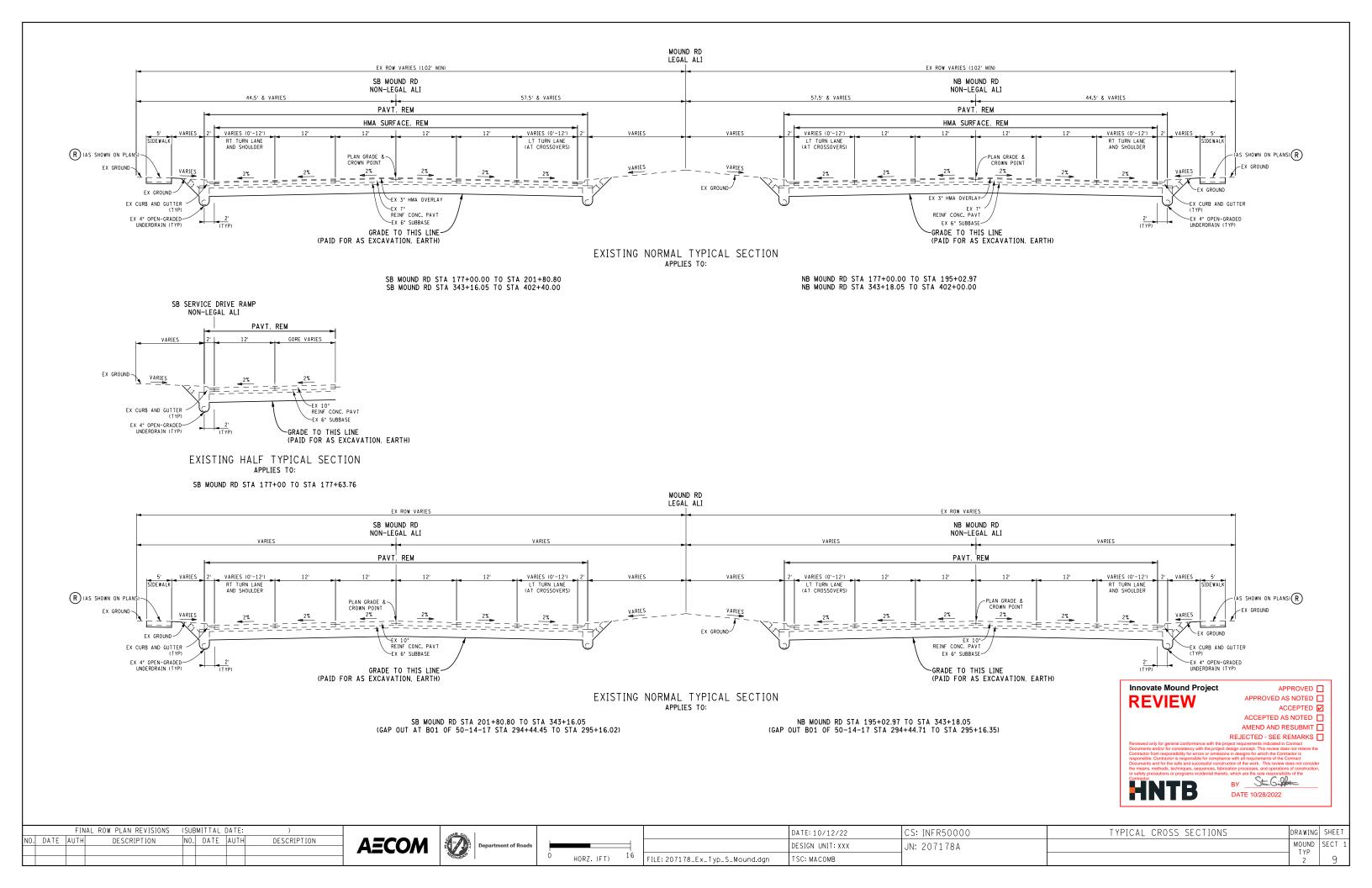


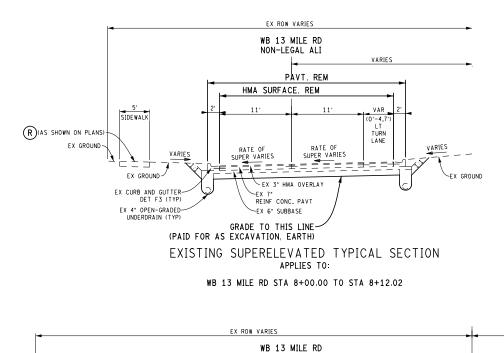
EXISTING HALF TYPICAL SECTION APPLIES TO:

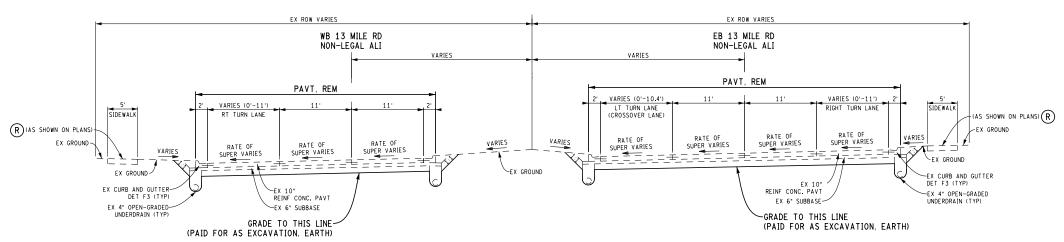
SB MOUND RD STA 176+13.40 TO STA 177+00.00

Innovate Mound Project	APPROVED
REVIEW	APPROVED AS NOTED
IZEVIEVV	ACCEPTED 🗹
	ACCEPTED AS NOTED
	AMEND AND RESUBMIT 🔲
Reviewed only for general conformance with the procurements and/or for consistency with the project responsible. Our management of the project responsible for compliant consistency and the project responsible. Our managements and for the sale and successful consist the means, methods, techniques, sequences, fash or safety precautions or programs incidental theret contractor.	design concept. This review does not relieve the ns in designs for which the Contractor is uce with all requirements of the Contract uction of the work. This review does not consider cation processes, and operations of construction,

FINAL ROW PLAN REVISIONS)		3 Co,			DATE: 10/12/22	CS: INFR50000	TYPICAL CROSS SECTIONS	DRAWING SHEET
NO. DATE AUTH DESCRIPTION	NO. DATE AUTH	DESCRIPTION	AECOM 🕡	Department of Roads			DESIGN UNIT: XXX	JN: 207178A		MOUND SECT 1
			This is a supplemental to the supplemental to	YIGAN	0 нокz. (FT) 16	FILE: 207178_Ex_Typ_S_Mound.dgn	TSC: MACOMB			1 8



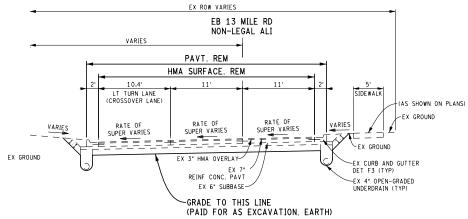




EXISTING SUPERELEVATED TYPICAL SECTION APPLIES TO:

WB 13 MILE RD STA 8+12.02 TO STA 12+41.79

EB 13 MILE RD STA 7+19.36 TO STA 12+97.48



EXISTING SUPERELEVA

EB 13 MILE RD STA 12+97.48 TO STA 13+35.00

TED TYPICAL	SECTION
ES TO:	
-97 48 TO STA 13.	+35.00

12 MILE RD NON-LEGAL ALI

EXISTING MEDIAN TYPICAL SECTION

APPLIES TO:

12 MILE RD STA 4+41.75 TO STA 9+17.22 12 MILE RD STA 9+68.55 TO STA 10+32.16 12 MILE RD STA 10+83.20 TO STA 13+67.68

 $\langle C \rangle$

(R) EX 6" CONC. SIDEWALK-

VARIES

اردا



Innovate Mound Project

REVIEW

BY StunGillan DATE 10/28/2022

APPROVED APPROVED APPROVED AS NOTED ACCEPTED ACCEPTED ACCEPTED ANOTED AMEND AND RESUBMIT

REJECTED - SEE REMARKS

Ī			FIN	NAL ROW PLAN REVISIONS	(SUE	BMITTAL	DATE:)		-ME CA	1
	NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	ASCOM	2 2	Department of Road
									AECOM		Department of Road
										CHIGA	I

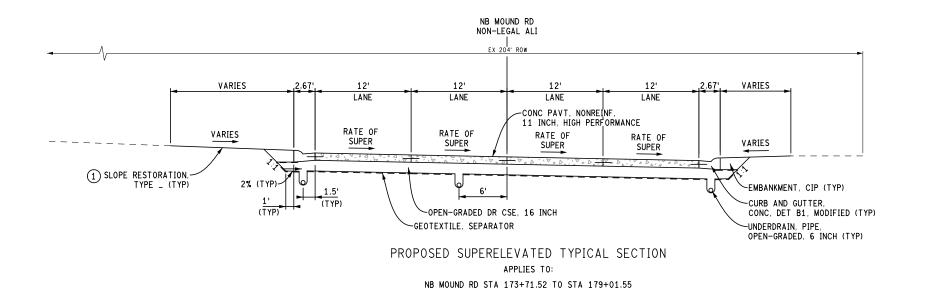


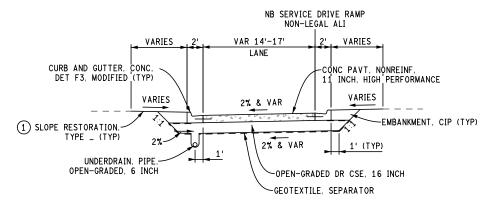
			ŀ
0	HORZ. (FT)	16	

	=	
RZ. (FT)	16	FILE: 207178_Ex_Typ_

	DATE: 10/12/22	CS: INFR50000
	DESIGN UNIT: XXX	JN: 207178A
_Local.dan	TSC: MACOMB	

TYPICAL	CROSS	SECTIONS	DRAWING	SHEE
			MOUND	SECT
			7 ' ' ' ' '	l 1∩





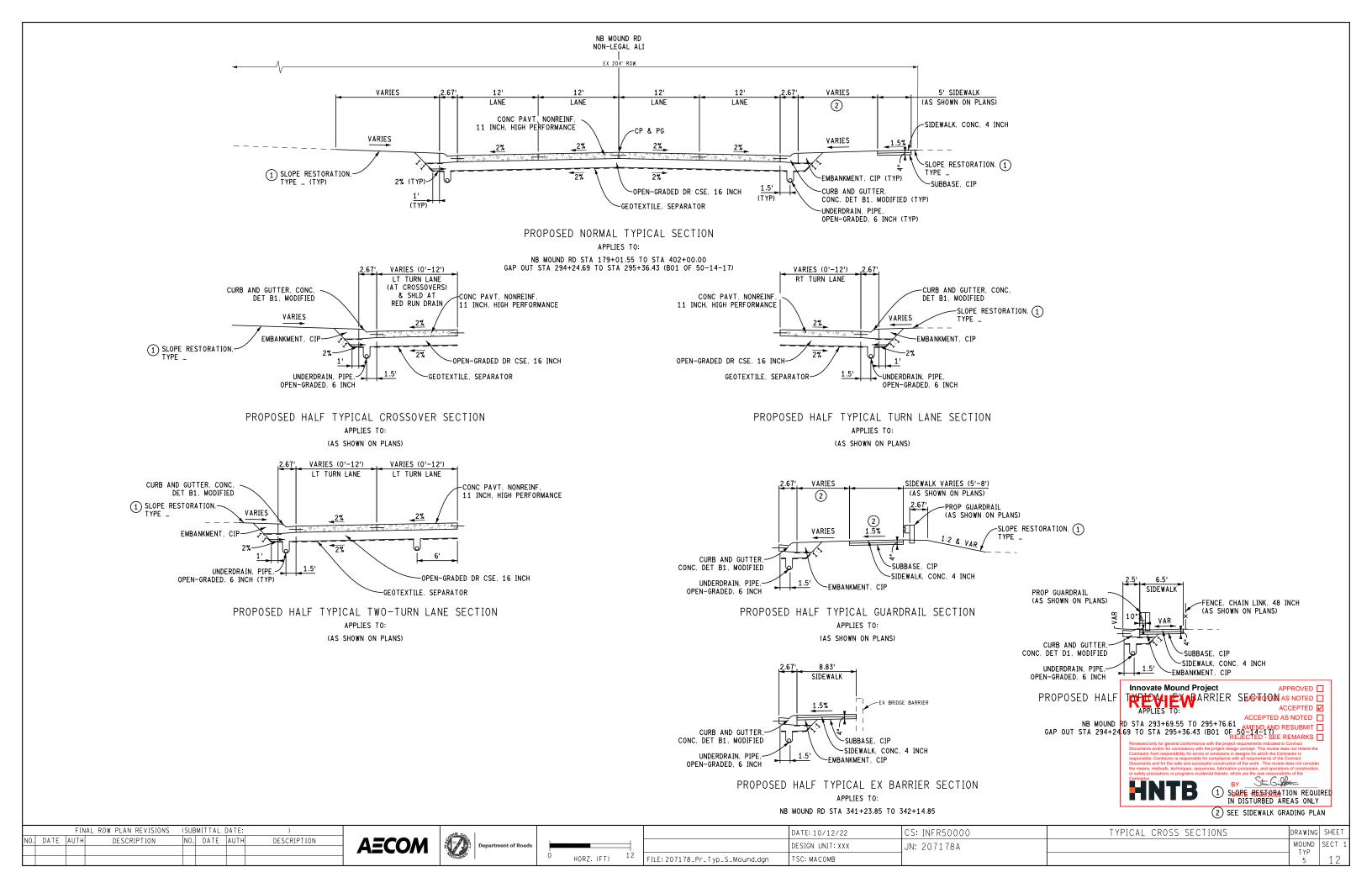
PROPOSED RAMP TYPICAL SECTION

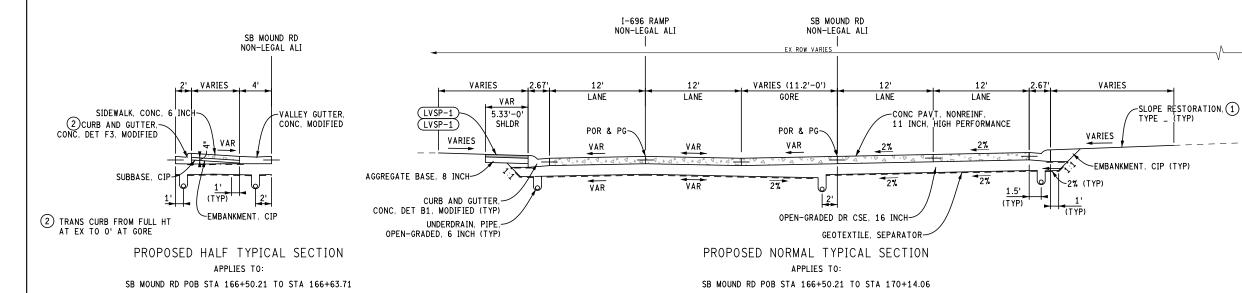
APPLIES TO:

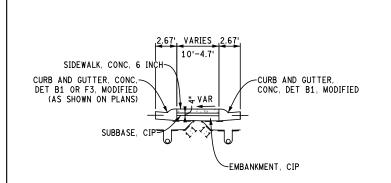
NB SERVICE DRIVE RAMP STA 6+75.74 TO STA 8+24.06

Innovate Mound Project	APPROVED 🔲
REVIEW	APPROVED AS NOTED 🔲
IXEVIEVV	ACCEPTED ☑
	ACCEPTED AS NOTED
	AMEND AND RESUBMIT
Reviewed only for general conformance with the pre Documents and/or for consistency with the project Contractor from responsibility for errors or engines of responsible. Contractor is responsible for compliand Documents and for the safe and successful constru- the means, methods, techniques, sequences, fabric or safety preautions or programs incidental thereto Contractor.	esign concept. This review does not relieve the s in designs for which the Contractor is e with all requirements of the Contract ction of the work. This review does not consider ation processes, and operations of construction,
	SLOPE RESTORATION REQUIRED
	IN DISTURBED AREAS ONLY

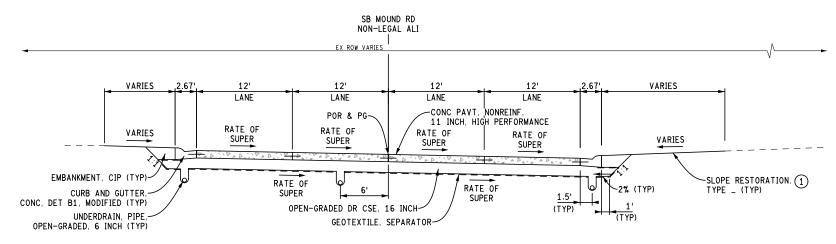
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)	OME CO.		DATE: 10/12/22	CS: INFR50000	TYPICAL CROSS SECTIONS	DRAWING	, SHEET
NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION AECOM	Department of Roads		DESIGN UNIT: XXX	JN: 207178A		MOUND	SECT 1
	MICHIGAN	O HORZ.(FT) 12 FILE:207178_Pr_Typ_S_Mound.dgn	TSC: MACOMB			4	11







PROPOSED HALF TYPICAL SECTION APPLIES TO: SB MOUND RD STA 175+30.08 TO STA 175+87.27



Innovate Mound Project

REVIEW

APPROVED APPROVED AS NOTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT REJECTED - SEE REMARKS \square

PROPOSED SUPERELEVATED TYPICAL SECTION APPLIES TO: SB MOUND RD STA 170+14.06 TO STA 175+49.71

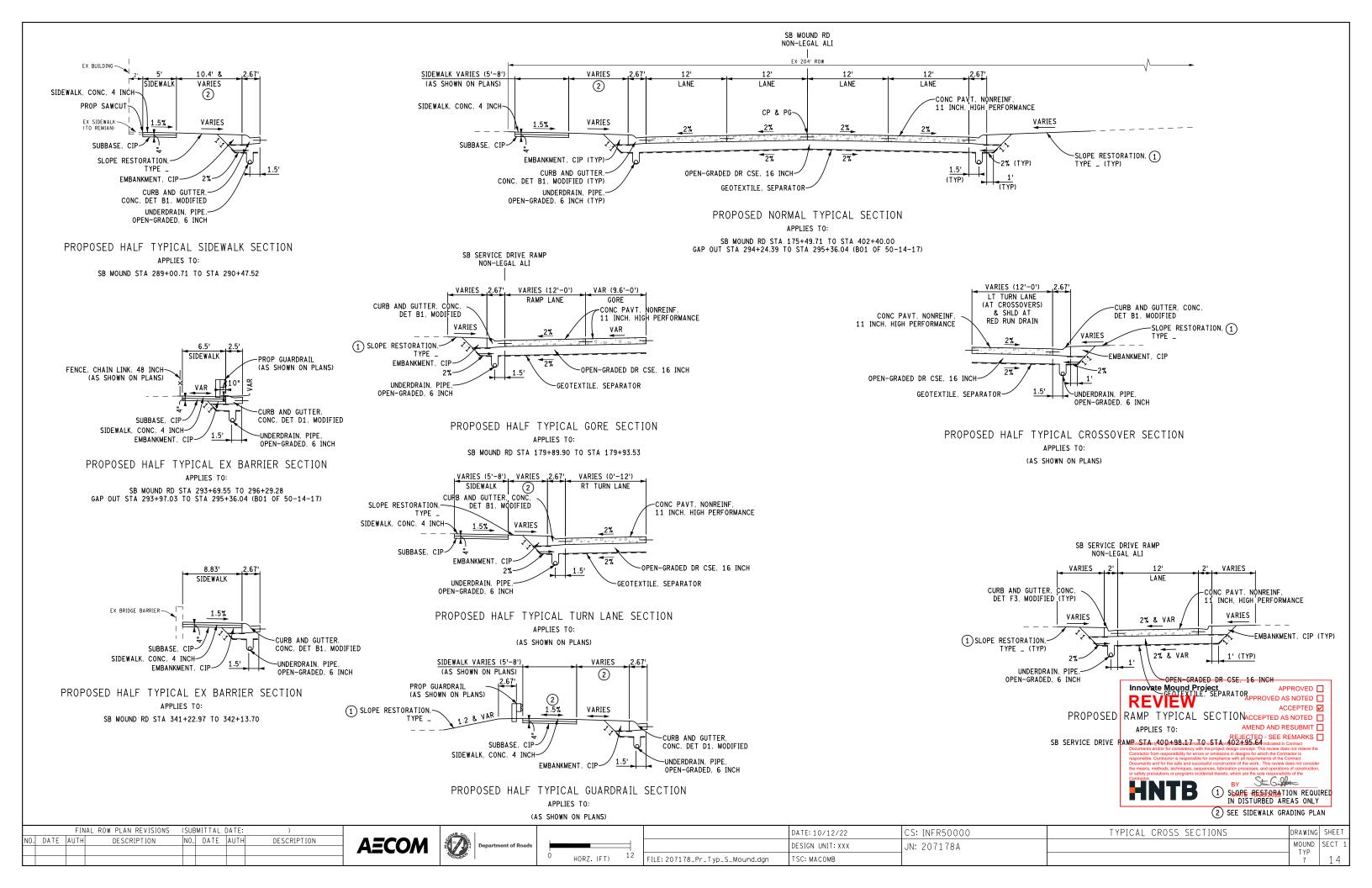
HMA APPLICATION ESTIMATE

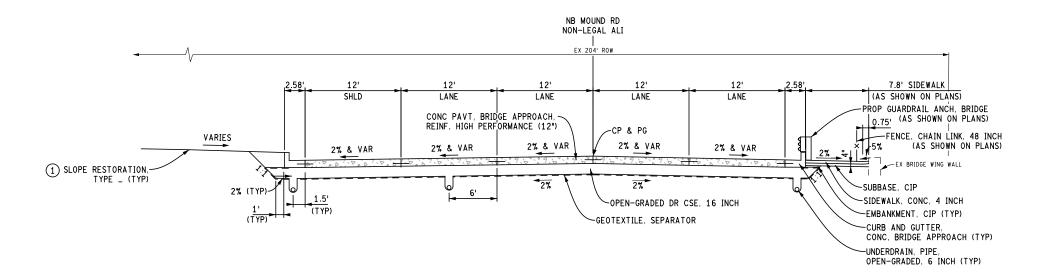
IDENT NO.	ITEM	RATE LBS PER SYD	PERFORMANCE GRADE	REMARKS
LVSP-1	HMA, LVSP	220	58-22	PARKING LOT, TOP COURSE / SHOULDER, TOP & BASE
LVSP-2	HMA, LVSP	VAR (330 MAX)	58-22	PARKING LOT, BASE COURSE - VARIES TO MATCH ADJACENT EX PAVT DEPTH
	* BOND COAT	0.05-0.15 GAL		

*FOR INFORMATION ONLY

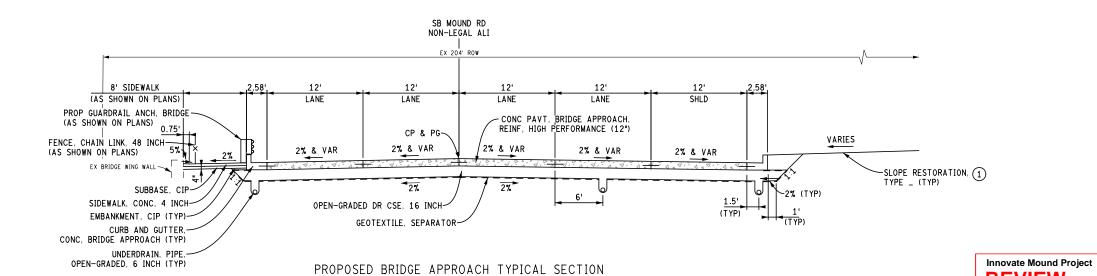
DATE 10/28/2022

SLOPE RESTORATION REQUIRED
IN DISTURBED AREAS ONLY FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: DATE: 10/12/22 CS: INFR50000 TYPICAL CROSS SECTIONS DRAWING SHEET NO. DATE AUTH **AECOM** MOUND SECT 1 DESIGN UNIT: XXX JN: 207178A TYP 6 HORZ. (FT) TSC: MACOMB FILE: 207178_Pr_Typ_S_Mound.dgn





PROPOSED BRIDGE APPROACH TYPICAL SECTION APPLIES TO: NB MOUND STA 294+22.68 TO STA 295+36.15 (GAP OUT BO1 OF 50-14-17)



APPROVED

DRAWING SHEET

MOUND SECT 1 TYP 8 15

APPROVED AS NOTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT REJECTED - SEE REMARKS \square

REVIEW

DATE 10/28/2022

1 SLOPE RESTORATION REQUIRED
IN DISTURBED AREAS ONLY FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: DATE: 10/12/22 CS: INFR50000 TYPICAL CROSS SECTIONS NO. DATE AUTH DESCRIPTION **AECOM** DESIGN UNIT: XXX JN: 207178A

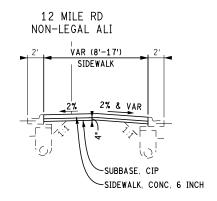
12

HORZ. (FT)

APPLIES TO: SB MOUND STA 294+22.70 TO STA 295+36.04 (GAP OUT BO1 OF 50-14-17)

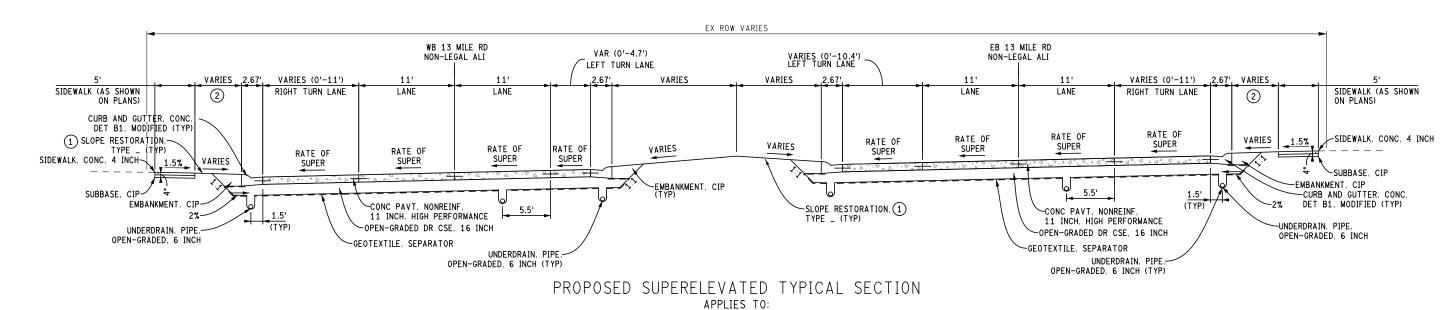
FILE: 207178_Pr_Typ_S_Mound.dgn

TSC: MACOMB



PROPOSED MEDIAN TYPICAL SECTION APPLIES TO:

12 MILE RD STA 4+41.75 TO STA 9+17.22 12 MILE RD STA 9+68.55 TO STA 10+32.16 12 MILE RD STA 10+83.20 TO STA 13+67.68



WB 13 MILE RD STA 8+00.00 TO STA 12+41.79

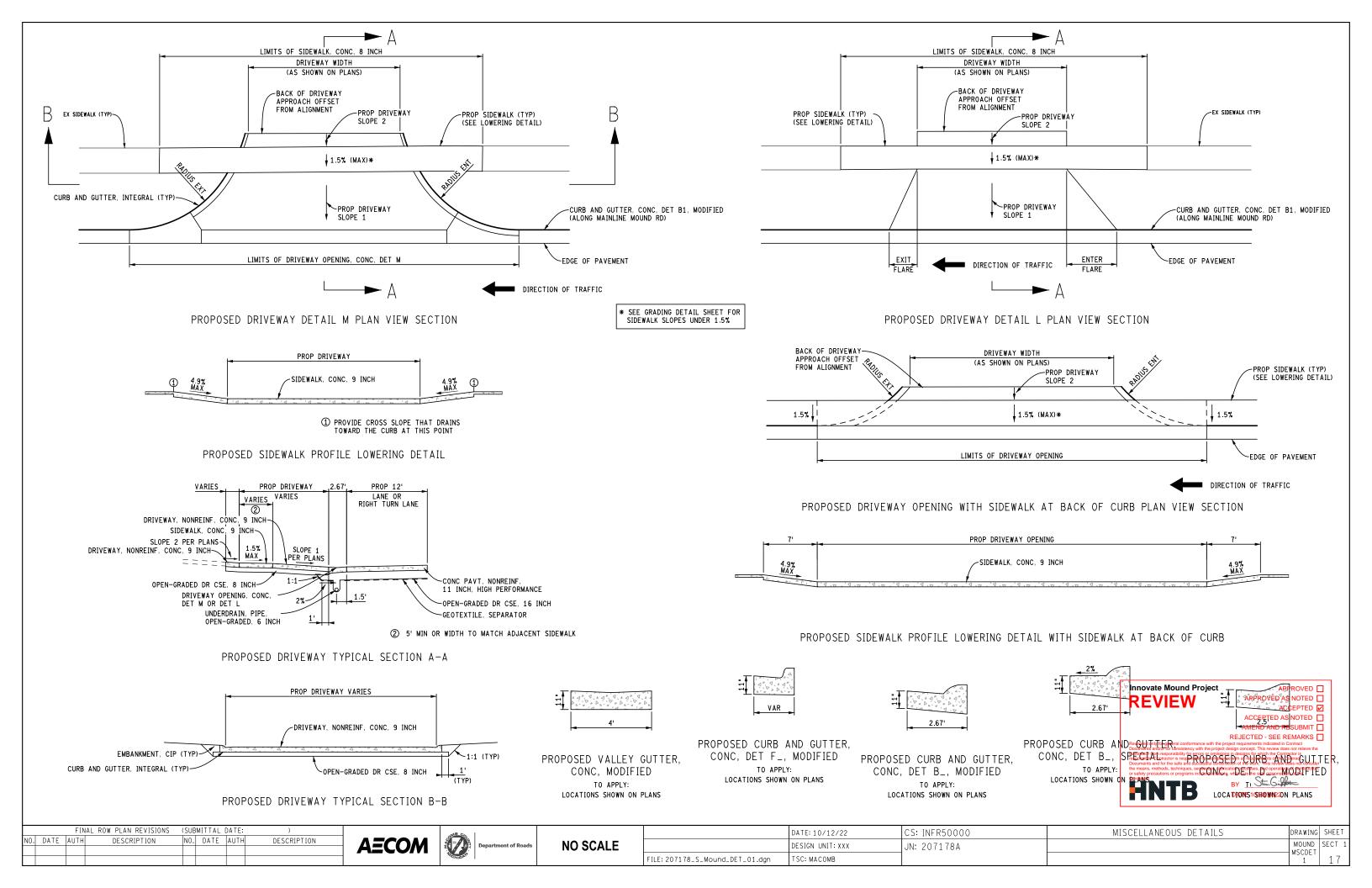
EB 13 MILE RD STA 7+19.36 TO STA 13+35.00

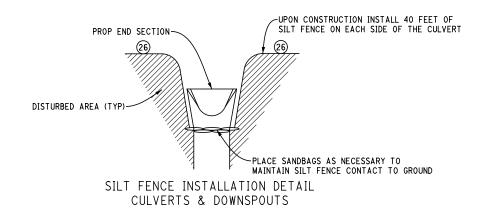


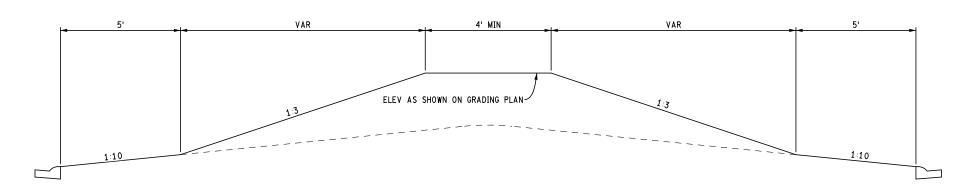
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION

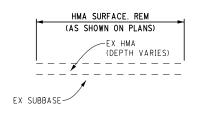
NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION NO. DATE AUTH D



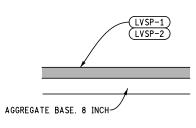




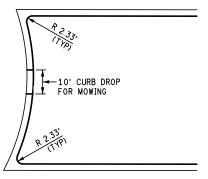
PROPOSED MEDIAN FEATURE BERM GRADING TO APPLY: AT ALL FEATURE BERM LOCATIONS AS SHOWN ON GRADING SHEETS



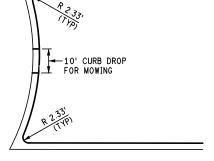
HMA PARKING LOT REMOVAL TO APPLY: AS SHOWN ON PLANS

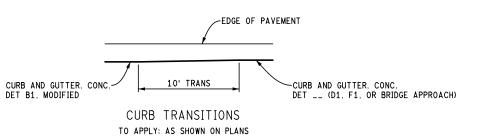


HMA PARKING LOT TO APPLY: AS SHOWN ON PLANS

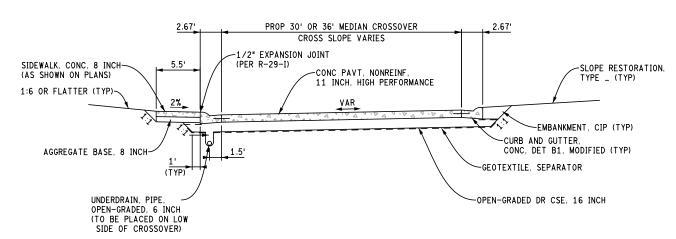


CROSSOVER RADIUS DETAIL & CURB CUT





NOTE: ALL SIDE STREET CURB TRANSTIONS TO EXISTING CURB TYPE SHALL BE CONSTRUCTED WITHIN THE 10' ADJACENT TO THE LIMITS OF CONSTRUCTION UNLESS OTHERWISE SPECIFIED ON THE PLAN SHEETS AND IN THE DETAIL GRADES.



PROPOSED MEDIAN CROSSOVER SECTION



Innovate Mound Project

APPROVED AS NOTED ACCEPTED AS NOTED ACCEPTED AS NOTED AMEND AND RESUBMIT REJECTED - SEE REMARKS

APPROVED

BY ____Star G

DATE 10/28/2022

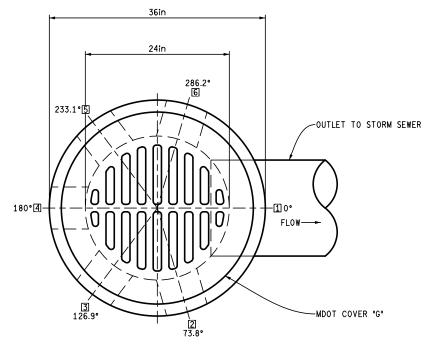
		FIN	IAL ROW PLAN REVISIONS	(SUE	BMITTAL (DATE:)
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



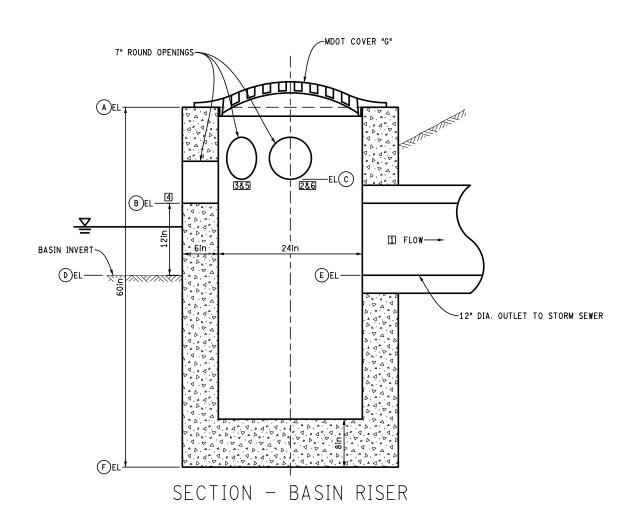


NO SCALE	
	F

	DATE: 10/12/22	CS: INFR50000	MISCELLANEOUS DETAILS	DRAWING	SHEET
	DESIGN UNIT: XXX	JN: 207178A		MOUND MSCDET	SECT 1
FILE: 207178_S_Mound_DET_01.dgn	TSC: MACOMB			2	18



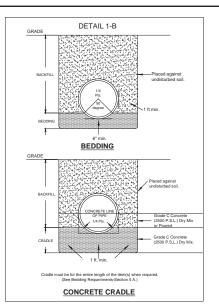


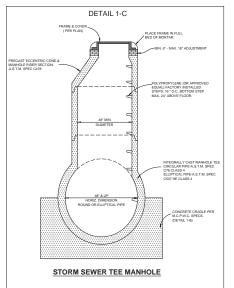


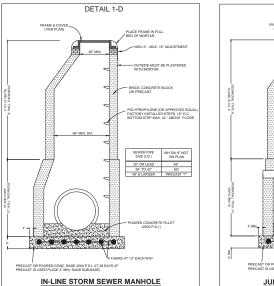
Riser Structure ID			Eleva	ntions			Outlet to MH
Riser Structure ID	Α	В	С	D	E	F	Outlet to Min
IN-3460	611.86	610.86	611.11	609.86	609.86	606.86	600386
IN-3470	612.03	611.03	611.28	610.03	610.03	607.03	600386
IN-3500	613.70	612.70	612.95	611.70	611.70	608.70	600389

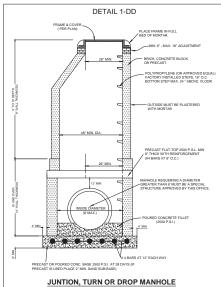


FI	NAL ROW PLAN REVISIONS)			DATE: 10/12/22	CS: INFR50000	MISCELLANEOUS DETAILS	DRAWING SHEET
NO. DATE AUT	H DESCRIPTION	NO. DATE AUTH	DESCRIPTION	AECOM Department of	NO SCALE	DESIGN UNIT: XXX	JN: 207178A		MOUND SECT 1
				TO THE MENT OF THE PARTY OF THE		FILE: 207178_S_Mound_Riser_DET_Round Tasa: MACOMB		DETENTION BASIN RISERS	3 19









DETAIL 1-Z.1 ROAD R.O.W. UTILITY TRENCH TYPE B

Bedding and Backfill of pipe within the Road R.O.W. must meet the requirements of MDOT as specified in the MDOT Standards IV-83G <u>TYPE B</u> Utility Trench dated 10-22-91. (See Detail 1-Z.2)

Class IIIA material shall be as defined by MDOT Supplemental Specifications for Utility Trench dated 4-25-91. (See Detail 1-Z.3)

Class III Granular Material shall consist of sand which meets the specifications described in Table 8.02-3, 1990 MDOT Standard

If pea gravel is used for Class IIIA material within the Road R.O.W. a filter fabric must be placed between the Class IIIA material and Class III material. Said filter fabric must meet requirements of MDOT Standards 8.09.02 Geotextiles. (See Detail 1-Z.5)

And acceptable alternative to using the filter fabric is to add a sand cement dry mix (Grade C-2500 P.S.I.) to the Class IIIA material

DETAIL 1-Z.3

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS SUPPLEMENTAL SPECIFICATION FOR UTILITY TRENCH BACKFILL

10-10-90

5.12 (3c)

FHWA Aprroval 04-25-91 a. Description.- This work shall consist of backfilling trenches where called for on the plans with a porous bedding material in accordance with the typical trench sections shown on Standard Plan IV-83 Series. Granular Material Class IIIA for use as trench backfill may also consist of crushed concrete.

b. Material.- The porous bedding materials for backfilling sewer trenches shall be Granular Material Class IIIA and shall meet the requirements specified in Subsection 8.02.06 of the 1990 Standard Specifications with the following additions:

The following material is hereby added to Table 8.02-3:

SIEVE ANALYSIS (ASTM C 136) TOTAL PERCENT PASSING (a)									Lost by	
MATERIAL	6"	3"	2"	1"	1/2"	3/8"	No. 4	No. 30	No. 100	Washing (a)
	150 mm	75 mm	50 mm	25 mm	12.5 mm	9.5 mm	4.75 mm	0.60 mm	0.150 mm	Percent
Class IIIA						100			0-30	0-15

(a) Based on dry weights

The following sentence is hereby added at the end of the first paragraph.

Granular Material Class IIIA for use as trench backfill may also consist of crushed concrete

c. Construction Methods.- Trenches shall be backfilled and compacted in accordance with the methods specified under Backfilling. Subsection 5.13.08, of the 1990 Standard Specifications, except the third paragraph is hereby deleted and is replaced with the

Backfill for sewer within the limits of the roadbed as shown on the plans or as directed by the Engineer shall be Granular Material as shown on the plans and shall be compacted to 95 percent of Maximum Unit Weight.

urement and Payment.- The completed work as measured for UTILITY TRENCH will not be paid for separately. Payment for such work will be considered as having been included in the contract unit prices bid for pay items in the contract

DETAIL 1-74

Table 8.02-3 Grading Requirements for Granular Materials 1990

		SIEVE ANALYSIS (ASTM C 136) TOTAL PERCENT PASSING (a)								
MATERIAL	6"	3"	2"	1"	1/2"	3/8"	No. 4	No. 30	No. 100	Washing (a) Percent
	150 mm	75 mm	50 mm	25 mm	12.5 mm	9.5 mm	4.75 mm	0.60 mm	0.150 mm	1 CIOCIA
Class I			100			45-85	20-85	5-30		0-5
Class II(b)		100		60-100					0-30	0-7(c)
Class IIA(b)		100		60-100					0-35	0-10(c)
Class III	100	95-100								0-15(c)

(a) Based on dry weights.

(b) Except for use in Granular Blankets. Class IIA granular material may be substituted for Class II granular material for projects located in the following counties. Arenac, Bay, Genesee, Gladwin, Huron, Lapeer, Macomb, Midland, Oakland, Saginaw, Sanilac, Shawassee, St. Clair, Tuscola, and Wayne counties.

(c) To be determinated on that portion of the sample which passes the 1 inch sieve

DETAIL 1-Z.5

obtain specimens of the shape and size specified for the Compression Set Test, a specimen of the largest obtainable size shall be used and the Compression Set shall not be more than 30 percent.

c. External Type Rubber Gaskets.- External rubber gaskets, mastic, and protective film for seating culvert and sewer joints shall meet the requirements of ASTM C 877.

8.08.18 Metal End Sections. - Metal end section shall be fabricated in accordance with the details shown on the plans and shall be furnished complete with coupling bands or hardware as indicated in the plans. The metallic coating on the end sections shall be the same as the metallic coating on the pipe, except zinc coated steel end sections made used with aluminum coated steel pipe. Metal end sections shall conform to AASHTO M 36, where applicable.

8.08.19 Concrete End Sections.- Precast concrete sections shall be constructed of concrete and reinforcement conforming to the requirements of AASHTO M 170 (ASTM C 76). Class II as modified by details shown on the plans. Concrete for end sections made by the dry-pack process shall contain a minimum of 658 pounds of cement per cubic yard and a liquid air entraining agent used at four times the dosage as needed for conventional

Concrete to pipe culvert shall be by of tongue and groove joints.

8.09 GEOTEXTILES

8.09.01 General Requirements.- Geotextiles shall be stored and handled carefully and in accordance with the manufacturer's recommendations. Torn or punctured geotextiles shall not be used unless repaired to the

Satisfaction of the Engineer.

The minimum certifiable values will be based on a 95 percent confidence level and for directional properties the

8.09.02 Geotextiles for Pipe-Wrap, Trench Linings, and Ditch Linings.- Geotextiles for pipe wrap, trench linings, and ditch linings, shall weigh at least 3.5 ounces per square yard in the condition of use and shall meet the requirements of AASHTO M 288, with the following modifications to the values listed in Table 1:

The range for Apparent Opening Size (A.O.S.) shall be 70-120 (U.S. Standard Sieve Size).

The large for Application Opening Size (A.O.S.) shall be 10-120 (U.S. Standard Sieve Size).

The minimum requirement for Coefficient of Permeability shall be 0.02 cm/sec. The minimum requirement for Flow Rate shall be 60 gal/min/ft2.

For pipe wrap where the backfill being used around the pipe is

Granular Material Class II or better polyester geotextiles having an A.O.S. in the range of 20 to 100, weighing at least 3.0 ounces per square yard in the condition of use, and having a nominal Burst Strength of 100 psi when tested in accordance with ASTM D 3786 will

8.09.03 Geotextiles for Granular Blanket. - Geotextiles used in granular blankets shall meet the requirements for geotextiles used for trench and ditch linings with an additional requirements that the fabric shall have a rough surface to provide a high soil-to-fabric friction

8.09.04 Geotextile Liner for Riprap. The geotextiles liner for areas to be riprapped shall weigh at least 4.5 ounces per square yard in the condition of use, shall contain a small amount of non-toxic lampblack as an ultraviolet inhibitor, and shall meet the requirements of AASHTO M 288, with the following modifications to the valued listed in Table 1:

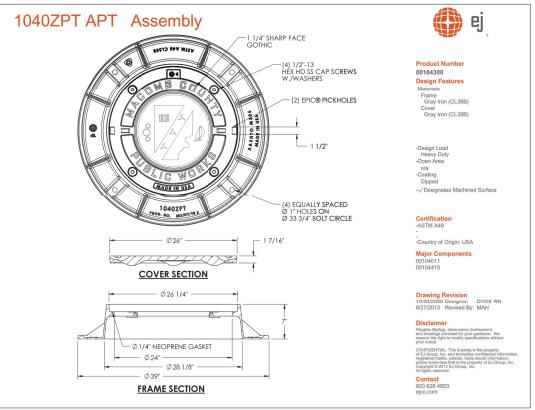
The minimum requirement for Tensile Strength shall be 200 lbs The minimum requirement for Burst Strength shall be 250 psi. The range for Apparent Opening Size (A.O.S.) shall be 70-120

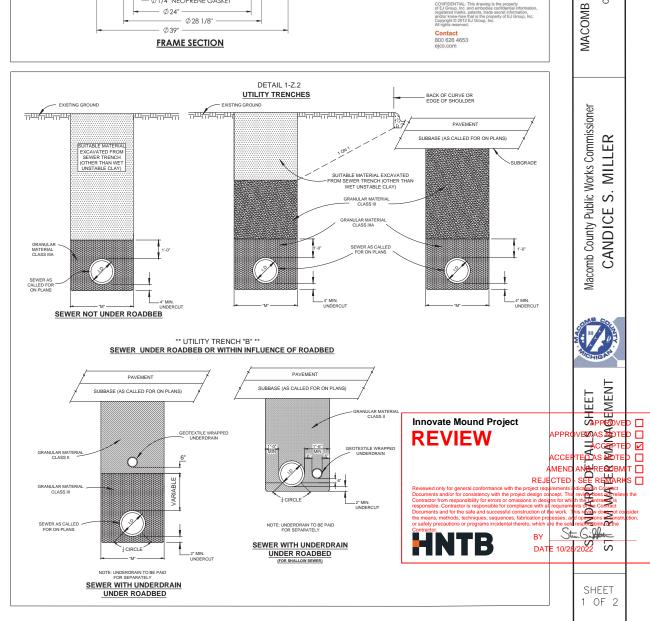
(U.S. Standard Sieve Size)

8.09.05 Three- Dimensional Mesh.- Three dimensional mesh meeting the approval of the Engineer may be used as an alternate to open-graded aggregate used as a drainage layer. The Engineer's approval of a three-dimensional mesh will be based on such characteristics as durability, strength, resistance to crushing, and thickness. The geotextile to be placed above and below the three dimensional mesh may be heat-bonded or otherwise attached to the mesh.

8.09.06 Geotextile Silt Fence.- Geotextile silt fence shall be commercially produced product for that purpose which has the following

Property Grab Tensil	Value	Unit	Test Method
Strength	100 (minimum)	lbs	ASTM D 463
Trapezoid Tear Strength	45 (minimum)	lbs	ASTM D 453
Mullen Burst Strength	280 (minimum)	psi	ASTM D 378
U.V. Resistance (Strength Retain	ed) 70 (minimum)	%	ASTM D 435
Water Flow Rate	e 30 (minimum)	gal/min/ft2	AASHTO M 28
Apparent Openir Size	ng 0.600 (minimum) No. 30 (minimum	mm)(U.S. Std. mes	AASTM D 475 h)

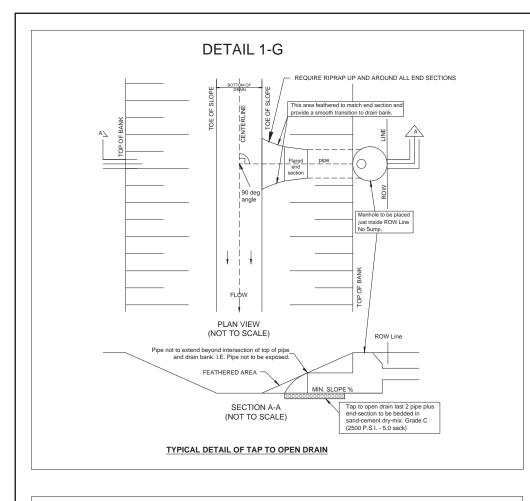


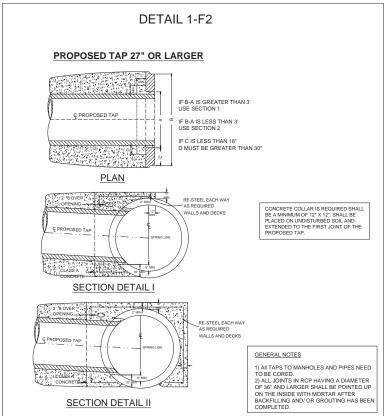


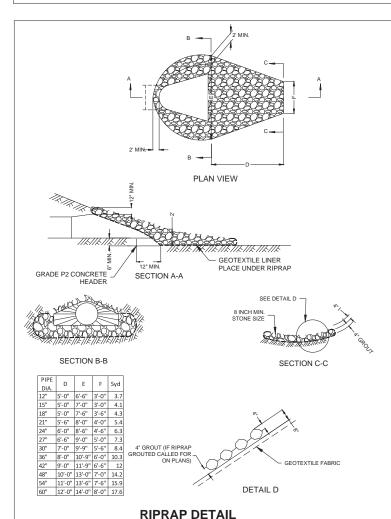
PRAV FR CHEC

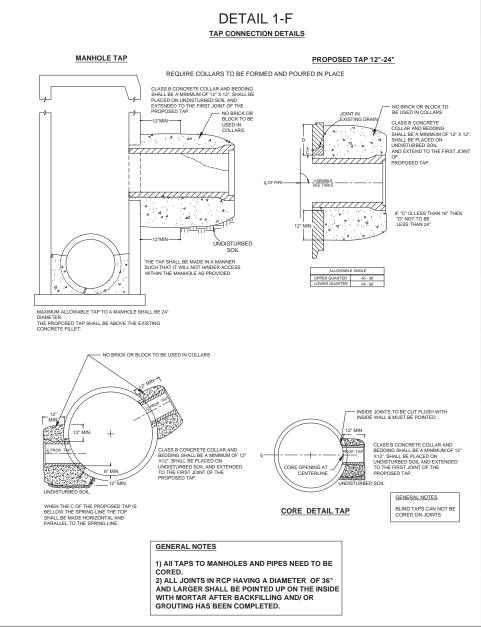
9

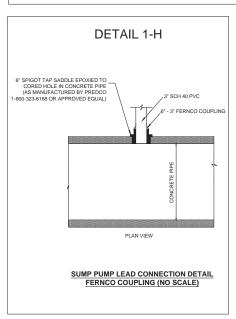
COUNTY PUBLIC WORKS 21777 DUNHAM ROAD 1.LINTON TOWNSHIP, MI 48036

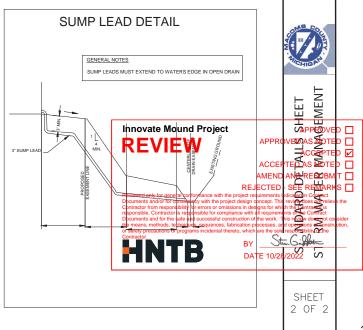




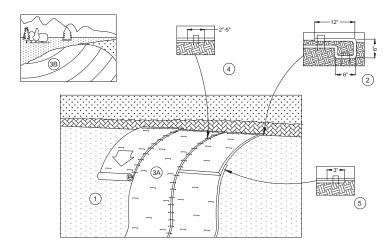












1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.

APPLICATION OF LIME, FERTILIZER, AND SELU.

2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECP'S IN A 6° DEEP X 6° WIDE TRENCH WITH APPROXIMATE 12° OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/ STAKES APPROXIMATELY 12° APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING, APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12° APART IN THE RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/ STAKES SPACED APPROXIMATELY 12" ACROSS THE WIDTH OF THE

3. ROLL THE RECP's (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE (SEE DETAIL SESC-16). WHEN USING THE DOT SYSTEM, STAPLES/ STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN (SEE

4. THE EDGES OF THE PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATE 2"-5" OVERLAP DEPENDING ON RECP'S TYPE.
5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECP'S WIDTH.

IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP's.

PRAV FR CHEC

OFF

MACOMB COUNTY PUBLIC WORKS 21777 DUNHAM ROAD CLINTON TOWNSHIP, MI 48036 (586) 469-5325

Macomb County Public Works Commission CANDICE S. MILLER

NOTES

COORDINATE SYSTEM: STATE PLANE GRID ZONE: MICHIGAN SOUTH 2113

ELLIPSOID: GRS 80 HORIZONTAL DATUM: NAD 83 (2007) **VERTICAL DATUM:** NAVD 88 GEOID: GEOID 09

INTERNATIONAL FEET UNITS:

GROUND DISTANCE CONVERSION

THE COMBINED SCALE FACTOR (CSF) FOR EACH CONTROL POINT IS INCLUDED IN THE CONTROL POINT LIST.

AVERAGE COMBINED SCALE FACTOR (ACSF) = (CSF1 + CSF2)/2

GROUND DISTANCE = GRID DISTANCE / ACSF

THE COMBINED SCALE FACTOR (CSF) FOR EACH CONTROL POINT IS INCLUDED IN THE CONTROL LIST

PRIMARY CONTROL

CONTROL POINT#: 100

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP IN MEDIAN OF MOUND ROAD, +/-1480' NORTH OF W. ELEVEN MILE ROAD, +/- 1120' SOUTH OF ARSENAL AVENUE, +/-270' EAST OF MILLWRIGHTS INSTITUTE BUILDING FACE. AND +/-13' WEST OF CURB.

STATION 15+55.16, **OFFSET** 39.41

COORDINATES: N=365640.441 E=13479495.777 EL=618.762

SDN= 0.010 SDE= 0.010 SDZ= 0.004 COMBINED FACTOR= 0.99990567

WITNESSES:

LIGHT POLE 1.N82°E 101.70'

2.S10°F 47.40' TO NORTHWEST CORNER OF BITUMINOUS

3.WEST 13.20' TO EDGE OF CURB 4. S45°E 19.70' TO "X" IN CURB

CONTROL POINT#: 101

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP 5' EAST OF CURBON EAST SIDE OF MOUND ROAD, +/-950' NORTH OF ARSENAL AVENUE CENTERLINE, +/- 375' EAST OF CORT FURNITURE RENTAL BUILDING FACE.

STATION 36+28.00, **OFFSET** 88.83

COORDINATES: N=367713.367 E= 13479458.089 EL=616.533

SDN= 0.010 SDE= 0.010 SDZ= 0.006 COMBINED FACTOR= 0.99990511

WITNESSES:

1.N08°E 64.00' SET NAIL AND TAG IN EAST SIDE OF UTILITY POLE 2.N72°E 13.50' TO FACE OF STEEL FENCE POST

SET NAIL AND TAG IN WEST SIDE OF UTILITY POLE 3. S08°F 80.10'

4. WEST 5.00' TO EAST EDGE OF CURB

CONTROL POINT#: 102

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP 5.5' EAST TO EDGE OF CURB, EAST SIDE OF MOUND ON NORTHBOUND. +/- 300' NORTH OF 12 MILE ROAD.

TO EAST EDGE OF CURB

STATION 56+75.52, **OFFSET** 88.90

COORDINATES: N=369758.845 E=13479376.152 EL=620.137

SDN= 0.010 SDE= 0.010 SDZ=0.005 COMBINED FACTOR= 0.99990429

5.50'

WITNESSES:

4. WEST

TO NORTH FACE OF LIGHT POLE 1.S04°E 30.50' TO FACE OF FENCE POST 2.S84°E 43.60' TO FACE OF SIGN 3. N04°E 92.60'

CONTROL POINT#: 103

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI

TRAVERSE CAP 6' EAST OF EAST CURB ON NORTHBOUND MOUND ROAD. +/- 2400' NORTH OF 12 MILE ROAD. AND +/- 350'

SOUTHEAST OF FLAGSTAR BANK **STATION** 77+74.86, **OFFSET** 89.38

COORDINATES: N=371856.825 E= 13479300.646 EL=616.542

SDN= 0.011 SDE= 0.010 SDZ= 0.004 COMBINED FACTOR= 0.99990381

WITNESSES:

TO FACE OF FENCE POST 1.N88°E 43.10' 2.S12°E 45.40' TO CENTER OF MANHOLE 3.S06°E 30.00' TO CENTER OF HYDRANT 4.WEST 6.00' TO EDGE OF CURB

CONTROL POINT#: 104

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE NORTHBOUND MOUND ROAD, +/-900' SOUTH OF 13 MILE ROAD, AND +/- 3' EAST OF SIDEWALK.

STATION 98+43.82, **OFFSET** 100.23

COORDINATES: N=373925.093 E= 13479218.730 EL=617.096

SDN= 0.010 SDE= 0.010 SDZ= 0.004 COMBINED FACTOR= 0.99990315

WITNESSES:

1.N16°W 23.50' FOUND PK IN SIDEWALK 2.N78°W 33.40' FACE OF FENCE POST 3. S12°W 71.10' TO CENTER OF HYDRANT 4. WEST TO EAST SIDE OF SIDEWALK

CONTROL POINT#: 105

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOE SSI TRAVERSE CAP ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 1100' NORTH OF 13 MILE ROAD, AND +/- 7' EAST OF EAST CURB

STATION 118+49.82, **OFFSET** 21.23

COORDINATES: N=375925.043 E= 13479038.848 EL=618.321

SDN= 0.010 SDE= 0.009 SDZ= 0.004 COMBINED FACTOR= 0.99990248

WITNESSES:

1.S80°E 16.00' TO CENTER OF BEEHIVE CATCH BASIN 2.N08°E 58.90' SET NAIL AND TAG IN EAST SIDE OF UTILITY POLE 3. S04°E SET NAIL AND TAG IN WEST SIDE OF UTILITY POLE 72.70 TO NORTHEAST CORNER OF CURB INLET 4. WEST 6.5

CONTROL POINT#: 106

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE NORTHBOUND MOUND ROAD, +/-1270' SOUTH OF ST. ANNE CATHOLIC CHURCH, AND +/- 1.5' EAST OF EAST CURB

STATION 139+21.13, **OFFSET** 21.37

COORDINATES: N=377993.477 E= 13478934.482 EL=614.486

SDN= 0.008 SDE= 0.007 SDZ= 0.005 COMBINED FACTOR= 0.99990205

WITNESSES:

SOUTHEAST CORNER OF DURB INLET 1.N08°W 26.20'

7.50' 2.S45°E SET NAIL AND TAG IN WEST SIDE OF UTILITY POLE

3.S02°E 51.60' TOP CENTER OF MANHOLE 4.S08°E 64.10' TO FACE OF SIGNPOST

CONTROL PT#: 107

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 30' SOUTH OF PECK ROAD, AND +/- 4' EAST OF EAST BACK OF CURB. STATION: 159+57.14 OFFSET: 25.66 ALI: MOUND RD LEGAL ALI COORDINATES: N=380027.767 E=13478850.720 EL=619.016 SDN=0.010 SDE=0.010 SDZ=0.003 COMBINED SCALE FACTOR: 0.99990124

WITNESSES:

1. N20°E 18.20' SET NAIL AND TAG IN WEST SIDE OF UTILITY POLE

2. N38°E 25.60' FACE OF CORNER FENCE POST

3. S26°E 26.20' FACE OF END FENCE POST

4. WEST 4.40' TO EDGE OF CURB

CONTROL PT#: 108

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 850' SOUTH OF STERLING DRIVE, AND +/- 6' EAST OF EAST BACK OF CURB. STATION: 180+53.61 OFFSET: 89.39 ALI: MOUND RD LEGAL ALI COORDINATES: N=382125.087 E=13478813.660 EL=614.631 SDZ=0.006 SDN=0.010 SDE=0.009 COMBINED SCALE FACTOR: 0.99990085

WITNESSES:

1. S24°E 19.20' SET NAIL AND TAG IN WEST SIDE OF UTILTIY POLE

2. S30°E 6.00' TO EAST EDGE OF CURB

3. S10°E 43.10' TO TOP CENTER OF HYDRANT

4. N54°E 20.00' TO SOUTH GUY WIRE

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 330' NORTH OF STERLING DRIVE. WEST OF TRANSPAK INC., AND +/- 5' EAST OF EAST BACK OF CURB.

STATION: 200+55.44 OFFSET: 88.94 ALI: MOUND RD LEGAL ALI COORDINATES: N=384124.423 E=13478717.105 EL=617.504 SDN=0.010 SDE=0.009 SDZ=0.006 COMBINED SCALE FACTOR: 0.99990014

WITNESSES:

1. N24°E 41.70' SET NAIL AND TAG IN SOUTHEAST SIDE OF UTILITY POI F

2. S02°W 33.10' TOP CENTER OF BEEHIVE

3. S24°E 53.90' TO SOUTHWEST CORNER OF SIGN BASE

4. WEST 5.20' TO EAST EDGE OF CURB

CONTROL PT#: 110

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE NORTHBOUND MOUND ROAD. +/- 500' NORTH OF 15 MILE ROAD. AND +/- 4' EAST OF EAST BACK OF CURB.

STATION: 220+88.96 OFFSET: 88.15 ALI: MOUND RD LEGAL ALI COORDINATES: N=386156.686 E=13478611.407 EL=619.606 SDN=0.010 SDE=0.010 SDZ=0.005

COMBINED SCALE FACTOR: 0.99989948 WITNESSES:

1. N10°W 36.30' SOUTHEAST CORNER

2. N12°E 53.50' SET NAIL AND TAG IN EAST SIDE OF UTILITY POLE 3. S78°E 37.00' FACE OF END FENCE POST

4. S54°E 44.20' FACE OF GATE POST

CONTROL PT#: 111

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE NORTHBOUND MOUND ROAD, IN FRONT OF SUNBELT RENTALS, +/- 1900' NORTH OF MILLETT AVE., +/- 700' SOUTH OF CENTER DRIVE, AND +/- 5' EAST OF EAST BACK OF CURB.

STATION: 241+67.86 OFFSET: 89.20 ALI: MOUND RD LEGAL ALI COORDINATES: N=388231.294 E=13478477.738 EL=622.130

SDN=0.010 SDE=0.009 SDZ=0.007 COMBINED SCALE FACTOR: 0.99989879

WITNESSES:

1. S24°E 45.70' SET NAIL AND TAG IN WEST SIDE OF 28" MAPLE TREE 2. S04°E 77.10' SET NAIL AND TAG IN WEST SIDE OF 36" POPLAR

3. N15°E 50.40' TOP CENTER OF MANHOLE

4. N08°E 69.30' SET NAIL AND TAG IN SOUTH SIDE OF UTILITY POLE

CONTROL PT#: 112

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 300' SOUTH OF METRO PARKWAY ROAD, +/- 50' NORTH OF DETROIT NEWSPAPER AGENCY, AND +/- 7' EAST OF EAST BACK OF CURB.

STATION: 263+66.30 OFFSET: 90.18 ALI: MOUND RD LEGAL ALI COORDINATES: N=390425.581 E=13478360.563 EL=626.462

SDN=0.010 SDE=0.009 SDZ=0.007 COMBINED SCALE FACTOR: 0.99989799

WITNESSES:

1. N02°E 16.00' TO FACE OF EAST LEG OF SIGN

2. N52°E 71.20' SET NAIL AND TAG IN SOUTHEAST SIDE OF 14" MAPLE TREE

3. S18°E 11.30' SET NAIL AND TAG IN WEST SIDE OF UTILITY POLE

4. S34°E 21.90' TP CENTER OF MANHOLE

CONTROL PT#: 113

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 530' NORTH OF PROGRESS DRIVE, +/- 400' SOUTH OF WALL STREET, AND +/- 50' WEST OF MACK SIGN.

STATION: 284+25.76 OFFSET: 88.61 ALI: MOUND RD LEGAL ALI COORDINATES: N=392482.024 E=13478249.033 EL=625.829 SDN=0.011 SDE=0.010 SDZ=0.008 COMBINED SCALE FACTOR: 0.99989748

WITNESSES:

1. N64°E 8.20' TOP CENTER OF MANHOLE

2. N84°E 35.50' SOUTHWEST CORNER OF MACK SIGN

3. N10°W 31.40' TOP CENTER OF MANHOLE

4. N14°E 83.60' SET NAIL AND TAG IN SOUTHEAST SIDE OF UTILITY POLE

CONTROL PT#: 114

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 565' NORTH OF US FARATHANE CORP., +/- 150' SOUTH OF GENERAL DYNAMICS "GATE 2

ENTRANCE", ABD +/-3 FAST OF FAST BACK OF CURB.
STATION: 304+40.67 OFFSET 198.74 ALI: MOUND RD LEGAL ALID COORDINATES: N=394444.40 E 19478150.824 EL=623.329 PTED V

SDN=0.011 SDE=0.010 SDZ=0.009 COMBINED SCALE FACTOR: 0.99989707 WITNESSES:

ACCEPTED AS NOTED AMEND AND RESUBMIT REJECTED - SEE REMARKS

TRFF 2. S80°W 14.70'

3. S04°E

4. WEST

19.00'

3.50'

1. N40°E 62.10' SET NAIL AND TAG IN SOUTHEAST SIDE OF 16" OAK TOP CENTER OF MANHOLE SE PO WEST SIDE OF OTHER POLE TO BATE 10/28/2022

SURVEY INFORMATION SHEET FINAL ROW PLAN REVISIONS (SUBMITTAL DATE DATE: 10/12/22 CS: INFR50000 DRAWING SHEET IO. DATE AUTH MOUND SECT 1 NO SCALE JN: 207178A DESCRIPTION NO. DATE DESCRIPTION DESIGN UNIT: XXX SURVEY 22 FILE: 207178_Survey_Info_Sheet.doc TSC: MACOMB

CONTROL PT#: 115

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 350' NORTH OF 11 MILE ROAD. AND +/- 5' EAST OF EAST BACK OF CURB.

STATION: 325+81.61 OFFSET: 86.92 ALI: MOUND RD LEGAL ALI COORDINATES: N=396631.283 E=13478033.110 EL=624.943 SDN=0.010 SDE=0.009 SDZ=0.009

COMBINED SCALE FACTOR: 0.99989645

WITNESSES:

1. S10°E 89.10' TO FACE OF SIGNPOST

2. S22°E 70.00' TO FACE OF GAS LINE MARKER

3. S72°E 28.80' TO FACE OF WEST LEG OF SIGN

4. S58°W 5.50' TO BACK OF CURB

CONTROL PT#: 116

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE NORTHBOUND MOUND ROAD, JUST NORTH OF GATE OF NORTH LOT OF FORD PLANT. +/- 900' SOUTH OF SIMS DRIVE. +/- 180' EAST OF BRANCH STREET CENTERLINE, AND +/- 6' EAST OF EAST BACK OF CURB.

STATION: 346+06.54 OFFSET: 76.57 ALI: MOUND RD LEGAL ALI COORDINATES: N=398653.948 E=13477936.941 EL=625.177

SDN=0.006 SDE=0.011 SDZ=0.010 COMBINED SCALE FACTOR: 0.99989593

WITNESSES:

1. WEST 5.90' TO BACK OF CURB

TO FACE OF FENCE CORNER POST 2. S30°E 63.80'

TO FACE OF FENCE POST 3. S86°E 26.10'

4. N30°E 58.50' TO FACE OF FENCE POST

CONTROL PT#: 117

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 100' SOUTH OF ELMRIDGE, +/- 10' SOUTH OF FIRE AND ICE MECHANICAL INC., AND +/- 5' EAST OF EAST BACK OF CURB.

STATION: 365+63.73 OFFSET: 78.02 ALI: MOUND RD LEGAL ALI COORDINATES: N=400609.368 E=13477833.377 EL=628.236 SDN=0.010 SDE=0.009 SDZ=0.009

COMBINED SCALE FACTOR: 0.99989531

WITNESSES:

1. N72°E 31.60' SET NAIL AND TAG IN SOUTHEAST SIDE OF 10" CRABAPPLE TREE

2. N86°E 24.40' TOP CENTER OF BEEHIVE CATCH BASIN

3. S80°E 28.10' SET NAIL AND TAG IN SOUTHEAST SIDE OF UTILITY

POLE

4. S26°E 7.00' TOP CENTER OF BEEHIVE CATCH BASIN

CONTROL PT#: 118

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 1300' SOUTH OF 18 1/2 MILE ROAD, +/- 960' NORTH OF 18 MILE ROAD, AND +/- 5' EAST OF EAST BACK OF CURB.

STATION: 384+77.50 OFFSET: 75.73 ALI: MOUND RD LEGAL ALI COORDINATES: N=402519.966 E=13477730.227 EL=625.836

SDN=0.011 SDE=0.011 SDZ=0.011 COMBINED SCALE FACTOR: 0.99989496

WITNESSES:

1. WEST 4.40' TO BACK EDGE OF CURB

2. N16°E 30.40' SET NAIL AND TAG IN SOUTHEAST SIDE OF UTILITY POLE

3. N74°E 25.60' TO FACE OF FENCE POST 4. N06°W 62.40' TO FACE OF SIGNPOST

CONTROL PT#: 119

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 470' NORTH OF 18 1/2 MILE ROAD, +/- 4' EAST OF EAST BACK OF CURB, IN FRONT OF BUILDING #42150.

STATION: 405+22.75 OFFSET: 76.16 ALI: MOUND RD LEGAL ALI COORDINATES: N=404562.783 E=13477627.117 EL=629.467 SDN=0.010 SDE=0.010 SDZ=0.010

COMBINED SCALE FACTOR: 0.99989431

WITNESSES:

1. S20°E 54.70' SET NAIL AND TAG IN SOUTHWEST SIDE OF UTILITY POLE 2. S40°E 62.30' SET NAIL AND TAG IN SOUTHWEST SIDE OF 8" ASH TREE

3. EAST 35.10' SET NAIL AND TAG IN SOUTH SIDE OF 6" MAPLE TREE 4. N34°E 63.70' SET NAIL AND TAAG IN SOUTHEAST SIDE OF 6" MAPLE

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE OF MOUND ROAD ON SOUTHWEST CORNER OF SUNOCO GAS STATION, +/- 330' SOUTH OF 19 MILE ROAD CENTERLINE, AND +/-36' NORTH OF GREAT LAKES TILE DRIVEWAY.

STATION: 425+18.49 OFFSET: 85.39 ALI: MOUND RD LEGAL ALI COORDINATES: N=406556.262 E=13477531.791 EL=632.598 SDN=0.011 SDE=0.010 SDZ=0.009

COMBINED SCALE FACTOR: 0.99989369

WITNESSES:

1. S70°E 41.50' SET NAIL AND TAG IN SOUTH SIDE OF 8" MAPLE TREE

2. S12°E 57.00' SET NAIL AND TAG IN WEST SIDE OF UTILITY POLE

3. WEST 5.00' BACK EDGE OF CURB

4. N50°W 6.70' TO NORTHEAST CORNER OF CURB INLET

CONTROL PT#: 121

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE OF MOUND ROAD, JUST SOUTH OF STATE FARM BUILDING, +/- 485' NORTH OF COTTER AVE CENTERLINE, AND +/- 170' SOUTH OF GOFF AVE CENTERLINE.

STATION: 446+30.97 OFFSET: 75.74 ALI: MOUND RD LEGAL ALI COORDINATES: N=408665.289 E=13477407.574 EL=637.200 SDN=0.010 SDE=0.009 SDZ=0.010

COMBINED SCALE FACTOR: 0.99989300

WITNESSES:

1. N20°E 93.30' SET NAIL AND TAG ON SOUTHEAST SIDE OF 6" CRABAPPLE TREE

2. N40°E 86.30' TO FACE OF FENCE END POST 4.20' TO BACK EDGE OF CURB

4. S30°E 111.20' TO FACE OF FLAGPOLE

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE OF MOUND ROAD, IN FRONT OF STERLING HEIGHTS COOMFORT CARE, +/- 500' NORTH OF HIGGINS AVE., AND +/- 110' SOUTH OF POPLAR AVE.

STATION: 468+45.22 OFFSET: 75.39 ALI: MOUND RD LEGAL ALI COORDINATES: N=410876.205 E=13477293.240 EL=640.495 SDN=0.013 SDF=0.011 SDZ=0.009

COMBINED SCALE FACTOR: 0.99989235

WITNESSES:

1. S42°E 33.40' SET NAIL AND TAG IN SOUTHWEST SIDE OF 28" MAPLE TREE

2. S70°E 33.10' SET NAIL AND TAG IN SOUTHWEST SIDE OF 12" MAPLE TREE 3. N70°E 28.90' SET NAIL AND TAG IN SOUTH SIDE OF 26" MAPLE TREE

4. N40°E 32.60' TOP CENTER OF MANHOLE

CONTROL PT#: 123

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON EAST SIDE OF MOUND ROAD, JUST SOUTH OF M-59 INTERSECTION, +/- 260' NORTH OF WALDO AVE., AND +/- 75' SOUTH OF DOBRY DRIVE

STATION: 484+19.28 OFFSET: 92.41 ALI: MOUND RD LEGAL ALI COORDINATES: N=412449.167 E=13477232.053 EL=650.066 SDN=0.015 SDE=0.014 SDZ=0.008 COMBINED SCALE FACTOR: 0.99989155

1. S10°E 73.90' SET NAIL AND TAG IN WEST SIDE OF 16" ELM TREE 2. S34°E 57.70' SET NAIL AND TAG IN SOUTHWEST SIDE OF 6" TRI ELM TRFF

3. S50°E 46.80' SET NAIL AND TAG IN SOUTHWEST SIDE OF 12" ELM TREE 4. WEST 3.80' TO BACK EDGE OF CURB

WITNESSES:

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP IN MEDIAN OF MOUND ROAD, +/- 150' EAST OF GRAND PRIX AUTOWASH, +/- 135' WEST OF JOE DUMARS FIELDHOUSE, AND +/- 3' NORTH OF NORTH CURB FACE IN TURNAROUND.

STATION: 494+66.41 OFFSET: -2.46 ALI: MOUND RD LEGAL ALI COORDINATES: N=413490.297 E=13477085.364 EL=655.542 SDN=0.010 SDE=0.010 SDZ=0.008 COMBINED SCALE FACTOR: 0.99989106 WITNESSES:

1. S86°E 30.50' TO WEST LEG OF SIGN

2. N14°E 36.80' SET NAIL AND TAG IN SOUTHEAST SIDE OF 4" MAPLE TREE

3. N62°E 36.30' TO CENTER OF BEEHIVE CATCH BASIN 4. S30°W 3.70' NORTHEAST CORNER OF CURB INLET

CONTROL PT#: 125

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP IN MEDIAN OF MOUND ROAD, +/- 102' SOUTH OF SOUTH CURB FACE IN TURNAROUND @ CATALPA ROAD, +/- 8' EAST OF EAST CURB FACE OF SOUTHBOUND MOUND ROAD, AND EAST OF DUNKIN DONUTS. STATION: 474+69.06 OFFSET: -24.95 ALI: MOUND RD LEGAL ALI COORDINATES: N=411494.297 E=13477162.029 EL=644.100 SDN=0.010 SDE=0.010 SDZ=0.009 COMBINED SCALE FACTOR: 0.99989204

WITNESSES:

1. WEST 6.30' EDGE OF CURB

2. N18°E 33.00' SET NAIL AND TAG IN SOUTHEAST SIDE OF 6" MAPLE TREE

3. N06°E 61.90' TOP CENTER OF MANHOLE 4. N70°E 28.90' FACE OF LIGHT POLE

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP IN MEDIAN OF MOUND ROAD, +/- 9' NORTH OF NORTH CURB FACE OF NORTHBOUND TO SOUTHBOUND TURNAROUND AT SKIN AND VEIN CENTER NORTH OF WOODVIEW DRIVE.

STATION: 459+53.94 OFFSET: 8.81 ALI: MOUND RD LEGAL ALI COORDINATES: N=409982.727 E=13477271.006 EL=639.242 SDN=0.010 SDE=0.010 SDZ=0.009

COMBINED SCALE FACTOR: 0.99989260 WITNESSES:

1. N06°E 39.40' SET NAIL AND TAG IN EAST SIDE OF 6" MAPLE TREE 2. N10°W 15.40' FACE OF LIGHT POLE

3. S12°W 18.70' NORTHEAST CORNER OF CURB INLET 4. S68°W 42.20' NORTHEAST CORNER OF CURB INLET CONTROL PT#: 127

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON WEST SIDE OF MOUND ROAD, +/- 833' NORTH OF 19 MILE ROAD, +/-33' SOUTH OF EDGE OF CONCRETE DRIVEWAY, +/- 30' NORTH TO MAIL BOX #43233. AND +/- 4' WEST OF WEST CURB FACE OF SOUTHBOUND MOUND ROAD.

STATION: 436+91.03 OFFSET: - 76.01 ALI: MOUND RD LEGAL ALI COORDINATES: N=407718.474 E=13477307.344 EL=634.472 SDN=0.011 SDE=0.011 SDZ=0.010 COMBINED SCALE FACTOR: 0.99989334 WITNESSES:

1. N30°W 61.50' TOP CENTER OF BEEHIVE 2. N04°W 33.00' TOP CENTER OF MANHOLE 3. EAST 4.60' EDGE OF CURB

4. S04°E 45.00' TOP CENTER OF BEEHIVE

CONTROL PT#: 128

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON WEST SIDE OF MOUND ROAD. +/- 500' SOUTH OF HEINDALE STREET. +/- 150' SOUTH TO CREEK STREET, AND +/- 150' NORTH OF CREEK DRIVE.

STATION: 416+10.45 OFFSET: -76.93 ALI: MOUND RD LEGAL ALI COORDINATES: N=405640.967 E=13477417.262 EL=632.124

SDN=0.010 SDE=0.010 SDZ=0.010 COMBINED SCALE FACTOR: 0.99989393

WITNESSES:

1. S08°E 75.30' NORTHEAST CORNER OF CURB INLET

2. SOUTH 92.20' TOP CENTER OF MANHOLE

3. N02°E 48.60' FACE OF SIGN POST

4. EAST 5.50' EDGE OF CURB

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP IN NORTHWEST QUADRANT AT INTERSECTION OF SOUTHBOUND MOUND AND 18 MILE ROAD, +/- 12' NORTH OF NORTH CURB FACE OF 18 MILE ROAD WESTBOUND, AND +/- 13' SOUTHWEST OF POWER POLE. STATION: 375+53.67 OFFSET: -106.43 ALI: MOUND RD LEGAL ALI COORDINATES: N=401588.145 E=13477594.688 EL=629.337 SDN=0.010 SDE=0.010 SDZ=0.010 COMBINED SCALE FACTOR: 0.99989502

WITNESSES:

1. N14°W 64.10' TOP CENTER OF MANHOLE

2. N30°E 17.30' TOP CENTER OF MANHOLE 3. N44°W 45.90' TOP CENTER OF BEEHIVE CATCH BASIN

4. S44°W 26.10' TOP CENTER OF MANHOLE

CONTROL PT#: 130

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP IN MEDIAN OF MOUND ROAD, +/- 160' NORTHWEST OF SIMS ROAD, +/-150' WEST OF CORNER OF H & I EXPERT CAR CARE, AND +/- 9' EAST TO

STATION: 357+00.43 OFFSET: 21.53 ALI: MOUND RD LEGAL ALI COORDINATES: N=399744.265 E=13477824.692 EL=627.861 SDN=0.010 SDE=0.009 SDZ=0.010 COMBINED SCALE FACTOR: 0.99989554

WITNESSES: 1. N15°W 33.60'

TREE 3. S64°W 39.40' CRABAPPLE TREE

2. N66°W 27.10' FACE OF LIGHT POLE

Innovate Mound Project
SERVEW IN EAST SIDE OF 4" CRABARPEE
ACCEPTED A ACCEPTED 🗹 ACCEPTED AS NOTED SET NAIL AND TAG IN NORTH SMORTOPALIRESUBMIT 4. EAST 9.50' EDGE OF CURB



BY StunGiller DATE 10/28/2022

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: O. DATE AUTH NO SCALE DESCRIPTION NO. DATE AUTH DESCRIPTION FII F: 207178

	DATE: 10/12/22	CS: INFR50000
	DESIGN UNIT: XXX	JN: 207178A
78_Survey_Info_Sheet.doc	TSC: MACOMB	

CONTROL PT#: 131

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON WEST SIDE OF MOUND ROAD, +/- 125' NORTH OF SOUTH CURB FACE OF CONCRETE DRIVEWAY TO EMPIRE GRILL, IN FRONT OF CRAIG'S TV STORE, +/- 18' SOUTH OF SOUTH CURB FACE OF CONCRETE DRIVEWAY TO BLISS SALON, AND +/- 15' WEST OF WEST CURB FACE OF SOUTHBOUND MOUND ROAD. STATION: 337+84.75 OFFSET: -86.10 ALI: MOUND RD LEGAL ALI COORDINATES: N=397825.995 E=13477809.251 EL=625.249 SDN=0.011 SDE=0.011 SDZ=0.010

COMBINED SCALE FACTOR: 0.99989614

WITNESSES:

1. N20°W 28.50' SET NAIL AND TAG IN NORTHEAST SIDE OF 6" MAPLE TREE

2. N68°W 24.40' SET NAIL AND TAG IN NORTHEAST SIDE OF 8" MAPLE TREE

3. WEST 30.00' TO CENTER WATER VALVE

4. S26°W 13.90' SET NAIL AND TAG IN EAST SIDE OF UTILITY POLE

CONTROL PT#: 132

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON WEST SIDE OF MOUND ROAD, +/-150' SOUTH OF POWER HOME CONCRETE DRIVEWAY SOUTH CURB FACE; +/- 120' NORTH OF NORTH CURB FACE OF CONCRETE DRIVEWAY AT DEERFIELD OFFICE CENTER, +/- 100' SOUTH OF DEERFIELD OFFICE CENTER.

STATION: 316+22.86 OFFSET: -112.75 ALI: MOUND RD LEGAL ALI COORDINATES: N=395664.119 E=13477880.182 EL=624.699 SDN=0.010 SDE=0.010 SDZ=0.009 COMBINED SCALE FACTOR: 0.99989671

WITNESSES:

1. S88°E 20.10' SET NAIL AND TAG IN SOUTH SIDE OF UTILITY POLE

2. S40°E 28.80' NORTHWEST CORNER OF CURB INLET TOP CENTER OF MANHOLE 3. S10°E 43.50'

4. EAST 20.60' EDGE OF CURB

CONTROL PT#: 133

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON WEST SIDE OF MOUND ROAD, +/- 150' SOUTH OF SOUTH CURB FACE OF CONCRETE DRIVE TO ATHLETICO PHYSICAL THERAPY, +/- 75' NORTH OF SOUTH CURB FACE OF FOX HILL DRIVE.

STATION: 296+65.84 OFFSET: -90.99 ALI: MOUND RD LEGAL ALI COORDINATES: N=393710.876 E=13478003.615 EL=625.301 SDN=0.010 SDE=0.009 SDZ=0.009

COMBINED SCALE FACTOR: 0.99989718

WITNESSES:

1. S22°W 45.10' SET NAIL AND TAG IN SOUTH SIDE OF 3" MAPLE TREE

2. S56°W 51.30' TOP CENTER OF BEEHIVE CATCH BASIN 3. N80°W 42.90' SET NAIL AND TAG IN NORTH SIDE OF 3" MAPLE TRFF

4. EAST 7.70' TO EDGE OF CURB

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON WEST SIDE OF MOUND ROAD, +/- 500' NORTH OF TIM HORTON'S, +/-185' SOUTH OF SOUTH CURB FACE OF PARIS STREET STATION: 277+40.94 OFFSET: -98.90 ALI: MOUND RD LEGAL ALI COORDINATES: N=391788.170 E=13478098.356 EL=625.608 SDN=0.011 SDE=0.010 SDZ=0.007 COMBINED SCALE FACTOR: 0.99989767

WITNESSES:

1. N10°E 42.00' SET NAIL AND TAG IN EAST SIDE OF UTILITY POLE

15.20' BACK EDGE OF CURB 2. EAST 3. S08°E 30.50' TOP CENTER OF HYDRANT

4. S24°E 61.20' NORTHWEST CORNER OF CURB INLET

CONTROL PT#: 135

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON WEST SIDE OF MOUND ROAD, +/- 250' SOUTH OF SOUTH CURB FACE OF CONCRETE DRIVE, +/- 150' NORTH OF CCR BUILDING, AND +/- 12' WEST OF WEST CURB FACE OF SOUTHBOUND MOUND ROAD. STATION: 252+57.36 OFFSET: -92.33 ALI: MOUND RD LEGAL ALI COORDINATES: N=389308.478 E=13478237.531 EL=621.987 SDN=0.011 SDE=0.010 SDZ=0.003 COMBINED SCALE FACTOR: 0.99989850

WITNESSES:

1. S85°W 42.80' SET NAIL AND TAG IN NORTH SIDE OF 12" PINE

TREE

2. N09°E 35.70' TOP CENTER OF HYDRANT 3. S35°W 51.00' TOP CENTER OF BEEHIVE

4. S06°W 61.80' TOP CENTER OF MANHOLE

CONTROL PT#: 136

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP IN MEDIAN OF MOUND ROAD, +/- 230' WEST OF NORTHWEST CORNER OF MERCURY PROMOTIONS BUILDING, AND +/- 190' SOUTHWEST OF CONTINENTAL SERVICES SIGN.

STATION: 232+55.83 OFFSET: 13.33 ALI: MOUND RD LEGAL ALI COORDINATES: N=387316.263 E=13478461.128 EL=621.171 SDN=0.011 SDE=0.010 SDZ=0.006 COMBINED SCALE FACTOR: 0.99989908

WITNESSES:

1. S30°W 29.00' SET NAIL AND TAG IN NORTHWEST SIDE OF ELM TREE

2. N80°W 31.50' SET NAIL AND TAG IN NORTH SIDE OF ELM TREE 3. N26°W 26.20' SET NAIL AND TAG IN NORTHEAST SIDE OF ELM TREE

4. EAST 18.00' BACK EDGE OF CURB

CONTROL PT#: 137

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON WEST SIDE OF MOUND ROAD, IN FRONT OF SUBWAY BUILDING, +/-80' NORTH OF NORTH CURB FACE MANSFIELD ROAD, AND +/- 50' SOUTH OF SOUTH CURB FACE IN CONCRETE DRIVEWAY OF UPS STORE.. STATION: 210+36.12 OFFSET: -94.71 ALI: MOUND RD LEGAL ALI COORDINATES: N=385095.346 E=13478487.414 EL=618.814 SDN=0.009 SDE=0.009 SDZ=0.004 COMBINED SCALE FACTOR: 0.99989981 WITNESSES:

1. S10°W 78.20' SET NAIL AND TAG IN WEST SIDE OF UTILITY POLE 2. S42°W 41.00' SET NAIL AND TAG IN NORTHWEST SIDE OF 4" ASH TREE

3. EAST 11.40' BACK EDGE OF CURB 4. S22°W 90.70' TO CENTER OF HYDRANT

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON WEST SIDE OF MOUND ROAD, +/- 27' NORTH OF CENTERLINE PLYMOUTH STREET, AND +/- 12' WEST OF WEST CURB FACE OF SOUTHBOUND MOUND ROAD.

STATION: 192+15.50 OFFSET: -98.39 ALI: MOUND RD LEGAL ALI COORDINATES: N=383276.578 E=13478569.600 EL=616.832 SDN=0.010 SDE=0.010 SDZ=0.003

COMBINED SCALE FACTOR: 0.99990041

WITNESSES:

1. S12°W 23.50' TOP CENTER OF MANHOLE

12.10' TOP CENTER OF MANHOLE 2. S30°W

3. S20°E 6.10' TOP CENTER OF MANHOLE 4. S60°W 22.90' TOP CENTER OF HYDRANT

CONTROL PT#: 139

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON WEST SIDE OF MOUND ROAD, +/- 120' SOUTH OF SOUTH CURB FACE ON FOSS ROAD, +/- 120' NORTH OF NORTH CURB FACE ON STOBER ROAD, AND +/- 9' WEST OF WEST CURB FACE ON SOUTHBOUND MOUND

STATION: 169+98.98 OFFSET: -120.77 ALI: MOUND RD LEGAL ALI COORDINATES: N=381061.415 E=13478655.484 EL=618.475 SDN=0.010 SDE=0.010 SDZ=0.004 COMBINED SCALE FACTOR: 0.99990097

WITNESSES:

1. N40°W 63.60' FACE OF LIGHT POLE 2. S72°W 45.80' FACE OF LIGHT POLE 3. S10°W 96.30' TOP CENTER OF HYDRANT

4. N84°E 9.80' SOUTHWEST CORNER OF CURB INLET

CONTROL PT#: 140

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON WEST SIDE OF MOUND ROAD, +/- 100' SOUTH OF SOUTH CURB FACE OF STREEFKERK ROAD, AND +/- 40' NORTH OF NORTH CURB FACE OF SILVER STONE APARTMENTS DRIVEWAY.

STATION: 150+76.90 OFFSET: -155.43 ALI: MOUND RD LEGAL ALI COORDINATES: N=379140.523 E=13478707.855 EL=616.593

SDN=0.010 SDE=0.009 SDZ=0.002 COMBINED SCALE FACTOR: 0.99990161 WITNESSES:

1. N48°W 90.50' NORTHEAST CORNER OF BUILDING 2. N24°W 70.00' TOP CENTER OF MANHOLE

3. S10°W 103.20' BACK OF CURB

4. EAST 8.30' BACK OF CURB

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON WEST SIDE OF MOUND ROAD, JUST SOUTH OF BUILDING #31739, +/-150' NORTH OF NORTH CURB FACE ON FILMORE AVENUE, +/- 90' SOUTH OF SOUTH CURB FACE OF CONCRETE DRIVEWAY OF NATCHKO INC., AND +/- 4' WEST OF WEST CURB FACE ON SOUTHBOUND MOUND ROAD. STATION: 128+94.10 OFFSET: -155.59 ALI: MOUND RD LEGAL ALI COORDINATES: N=376958.355 E=13478806.408 EL=617.088 SDN=0.011 SDE=0.010 SDZ=0.004 COMBINED SCALE FACTOR: 0.99990223

WITNESSES:

1. N08°W 19.30' FACE OF UTILITY POLE 16.10' TOP CENTER OF MANHOLE 2. NORTH

3. N42°W 36.10' SOUTHEAST CORNER OF BUILDING #31739 4. S02°W 74.20' FACE OF LIGHT POLE

CONTROL PT#: 142

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON WEST SIDE OF MOUND ROAD, +/- 250' SOUTH OF SOUTH CURB FACE OF CONCRETE DRIVEWAY TO VILLAGE PLAZA PLACE, AND +/- 100' NORTH OF NORTH CURB FACE OF 13 MILE ROAD WEST. STATION: 108+82.74 OFFSET: -175.27 ALI: MOUND RD LEGAL ALI COORDINATES: N=374948.829 E=13478894.383 EL=616.698 SDN=0.010 SDE=0.009 SDZ=0.002

COMBINED SCALE FACTOR: 0.99990285 WITNESSES:

1. N12°E 49.50' SOUTHEAST CORNER OF CONCRETE BASE OF UTILITY POLE

2. EAST 10.90' BACK EDGE OF CURB

3. S70°W 57.50' SOUTHEAST CORNER OF CURB INLET

DATE: 10/12/22

TSC: MACOMB

DESIGN UNIT: XXX

4. S04°W 95.70' NORTHEAST CORNER OF VILLAGE PLAZA SIGN

CS: INFR50000

JN: 207178A

CONTROL PT#: 143

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON WEST SIDE OF MOUND ROAD; +/- 200' SOUTH OF SOUTH CURB FACE OF CONCRETE DRIVE ON GREENVIEW ROAD.

STATION: 89+72.38 OFFSET: -92.47 ALI: MOUND RD LEGAL ALI COORDINATES: N=373045.680 E=13479066.457 EL=615.786

SDN=0.012 SDE=0.011 SDZ=0.005 COMBINED SCALE FACTOR: 0.99990348

WITNESSES:

1. EAST 9.00' BACK EDGE OF CURB

2. N12°W 20.80' TOP CENTER OF MANHOLE 33.20' EAST SIDE OF EDGE OF SIDEWALK

4. N28°E 21.90' SOUTHWEST CORNER OF CURB INLET

CONTROL PT#: 144

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON WEST SIDE OF MOUND ROAD, IN FRONT OF MEIJER STORE, +/-750' NORTH OF NORTH CURB FACE OF ALDI DRIVEWAY, AND +/- 100' SOUTH OF SOUTH CURB FACE OF MEIJER DRIVEWAY.

STATION: 69+40.49 OFFSET: -101.14 ALI: MOUND RD LEGAL ALI COORDINATES: N=371016.106 E=13479140.453 EL=617.770

SDN=0.010 SDE=0.009 SDZ=0.005 COMBINED SCALE FACTOR: 0.99990401

WITNESSES:

1. N40°W 51.60' SET NAIL AND TAG IN NORTHEAST SIDE OF 10" OAK

TRFF

2. N70°W 48.10' SET NAIL AND TAG IN NORTHEAST SIDE OF 8" OAK TREE

4. EAST 17.50' BACK EDGE OF CURB

3. S04°W 65.90' FACE OF GUY WIRE ANCHOR

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON WEST SIDE OF MOUND ROAD, +/- 18' WEST OF WEST CURB FACE OF SOUTHBOUND MOUND ROAD, AND +/- 18' SOUTH OF SOUTH CURB FACE OF ELM GROVE ROAD.

STATION: 48+49.16 OFFSET: -98.75 ALI: MOUND RD LEGAL ALI COORDINATES: N=368925.884 E=13479220.980 EL=619.572 SDN=0.011 SDE=0.010 SDZ=0.005

COMBINED SCALE FACTOR: 0.99990458

WITNESSES:

1. N24°W 9.20' NORTHWEST CORNER OF FACE OF STREET SIGN 2. S40°W 15.00' NORTHEAST CORNER OF FACE OF TIM HORTON'S

SIGN

3. S74°E 22.10' FACE OF LIGHT POLE

4. S54°W 23.60' NORTHEAST CORNER OF CURB INLET

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON WEST SIDE OF MOUND ROAD, +/- 26' SOUTH OF SOUTH CURB FACE OF DAIRY QUEEN DRIVEWAY, +/- 10' NORTH OF NORTH CURB FACE OF MARTIN ROAD, AND +/- 4' WEST OF WEST CURB FACE OF SOUTHBOUND MOUND ROAD.

STATION: 27+44.09, OFFSET: -89.12 ALI: MOUND RD LEGAL ALI COORDINATES: N=366822.949 E=13479316.250 EL=617.613

SDN=0.011 SDE=0.010
COMBINED SCALE FACEURE WOLLD PROJECT
WITNESSES: WITNESSES:

1. S64°W 33.90' 2. S82°W 33.20' 3. N70°W 18.60'

4. N02°W 59.10'

TOP CENTER OF MANHOLE ACCEPTED AS NOTED □ TOP CENTER OF HYDRANT AMEND AND RESUBMIT □

REJECTED - SEE REMARKS FACE OF LIGHT POLE FACE OF LIGHTYROLE



SURVEY INFORMATION SHEET



APPROVED

DRAWING SHEET

MOUND SECT 1

24

SURVEY

APPROVED AS NOTED





CALE	
JALE	
	FILE: 207178_Survey_Info_Sheet.doc

CONTROL PT#: 300

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP IN CENTER MEDIAN OF MOUND ROAD, SOUTHEAST OF MARTHUM AVENUE.

STATION: 140+81.57 OFFSET: -82.99 ALI: MOUND RD LEGAL ALI COORDINATES: N=378149.255 E=13478823.278 EL=615.391 SDN=0.000 SDE=0.000 SDZ=0.003

COMBINED SCALE FACTOR: 0.99990196

WITNESSES:

1. S36°W 42.43' CENTERLINE OF CATCH BASIN 2. S46°E 64.60' CENTERLINE OF CATCH BASIN

3. S80°E 46.00' BACK OF CURB

4. N50°E 25.40' SET SSI NAIL AND TAG IN POWER POLE

CONTROL PT#: 301

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP IN CENTER MEDIAN NORTH OF METRO PARKWAY (16 MILE). STATION: 271+34.80 OFFSET: 10.28 ALI: MOUND RD LEGAL ALI COORDINATES: N=391188.715 E=13478239.740 EL=626.276 SDN=0.009 SDE=0.009 SDZ=0.006 COMBINED SCALE FACTOR: 0.99989780

WITNESSES:

1. S28°W 31.83' CENTERLINE OF ELECTRIC MANHOLE

2. N80°W 29.78' BACK OF CURB

3. S85°E 19.10' BACK OF CURB 4. N60°E 29.82' SSI NAIL AND TAG IN BEECH NUT TREE

CONTROL PT#: 302

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP IN MEDIAN SOUTH OF 18 1/2 MILE ROAD.

STATION: 395+19.33 OFFSET: 13.13 ALI: MOUND RD LEGAL ALI COORDINATES: N=403557.343 E=13477615.387 EL=627.441 SDN=0.000 SDE=0.000 SDZ=0.011

COMBINED SCALE FACTOR: 0.99989464

WITNESSES:

1. N15°E 75.74' SOUTHEAST BOLT OF STRAIN POLE 2. S90°W 21.00' CENTERLINE OF CATCH BASIN

3. S05°W 49.57' SSI NAIL AND TAG IN WILD CHERRY TREE

4. S82°E 18.38' BACK OF CURB

BENCHMARKS

BENCHMARK#: 37

DESCRIPTION: PAINTED "X" ON SOUTHEAST BOLT ON SOUTH LEG OF GAS SIGN.

STATION: 488+76.83 OFFSET: 9393.51 ALI: MOUND RD LEGAL ALI ELEVATION: 632.71 SDZ: 0.000

DESCRIPTION: SET CHISELED "X" ON NORTHERLY FLANGE BOLT OF FIRE HYDRANT.

STATION: 488+62.75 OFFSET: 6569.34 ALI: MOUND RD LEGAL ALI ELEVATION: 641.29 SDZ: 0.000

BENCHMARK#: 318

DESCRIPTION: CHISELED SQUARE ON SOUTHEAST SIDE OF STEEL STRAIN POLE BASE ON NORTH SIDE OF SERVICE DRIVE +/- 50' WEST OF BRIDGE OVER MOUND ROAD. STATION: OUTSIDE ALIGNMENT LIMITS OFFSET: OUTSIDE ALIGNMENT LIMITS ALI: MOUND RD LEGAL ALI ELEVATION: 618.676 SDZ: 0.000

BENCHMARK#: 319

DESCRIPTION: CHISELED "X" ON SOUTHWEST BOLT OF LIGHT POLE BASE +/- 100' WEST OF DWYER ROAD ON NORTH SIDE OF SERVICE DRIVE.

STATION: OUTSIDE ALIGNMENT LIMITS OFFSET: OUTSIDE ALIGNMENT LIMITS ALI: MOUND RD LEGAL ALI ELEVATION: 618.640 SDZ: 0.000

DESCRIPTION: SET COTTON PICK IN EAST SIDE OF UTILITY POLE IN MEDIAN OF MOUND ROAD, AND +/- 100' SOUTH OF HEATHDALE AVENUE.

STATION: 20+11.00 OFFSET: -3.78 ALI: MOUND RD LEGAL ALI ELEVATION: 618.658 SDZ=0.004

BENCHMARK#: 501

DESCRIPTION: CHISELED SQUARE ON CONCRETE BASE OF LIGHT POLE ON WEST SIDE, EAST SIDE OF MOUND ROAD, IN FRONT OF NATIONAL STORAGE BUILDING, AND +/- 4' FROM BACK OF CURB. STATION: 30+29.20 OFFSET: 87.38 ALI: MOUND RD LEGAL ALI ELEVATION: 616.520 SDZ=0.005

BENCHMARK#: 502

DESCRIPTION: SET COTTON PICKER IN WEST SIDE OF UTILITY POLE ON EAST SIDE OF MOUND ROAD, AND +/- 1300' SOUTH FO 12 MILE. STATION: 40+86.91 OFFSET: 91.42 ALI: MOUND RD LEGAL ALI ELEVATION: 620.361 SDZ=0.006

BENCHMARK#: 503

DESCRIPTION: CHISELED "X" IN SOUTHWEST BOLT OF LIGHT POLE. 6' WEST OF EDGE OF CURB ON EAST SIDE NORTHBOUND MOUND ROAD. AND +/- 750' NORTH OF 12 MILES.

STATION: 61+32.92 OFFSET: 90.30 ALI: MOUND RD LEGAL ALI ELEVATION: 622.871 SDZ=0.005

BENCHMARK#: 504

DESCRIPTION: TOP ARROW OF HYDRANT ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 2450' SOUTH OF 13 MILE ROAD ACROSS FROM AT&T STORE, AND +/- 7' EAST OF EAST SIDE OF BACK OF CURB. STATION: 82+82.52 OFFSET: 90.42 ALI: MOUND RD LEGAL ALI ELEVATION: 616.819 SDZ=0.005

BENCHMARK#: 505

DESCRIPTION: SET "ARROW" ON TOP OF HYDRANT ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 75' NORTH OF CONSTRUCTION GATE ENTRANCE OF GENERAL MOTORS, AND +/- 11' EAST OF EAST BACK OF

STATION: 102+72.94 OFFSET: 62.27 ALI: MOUND RD LEGAL ALI ELEVATION: 619.285 SDZ=0.003

BENCHMARK#: 506

DESCRIPTION: SET COTTON PICKER IN WEST SIDE OF UTILITY POLE, 5' EAST OF CURB ON EAST SIDE OF MOUND ROAD, AND IN FRONT OF VILLAGE BOOK EXCHANGE STORE.

STATION: 122+78.44 OFFSET: 20.31 ALI: MOUND RD LEGAL ALI ELEVATION: 620.062 SDZ=0.005

BENCHMARK#: 507

DESCRIPTION: SET COTTON PICKER ON WEST SIDE OF UTILITY POLE ON EAST SIDE NORTHBOUND MOUND ROAD. +/- 170' SOUTH OF ST. ANNE CHRISTIAN CHURCH, +/- 50' SOUTH OF NORTH DRIVEWAY OF CHURCH, AND +/- 10' EAST OF EAST BACK OF CURB. STATION: 140+22.62 OFFSET: 24.28 ALI: MOUND RD LEGAL ALI

BENCHMARK#: 508

ELEVATION: 616.077 SDZ=0.005

DESCRIPTION: SET COTTON PICKER IN WEST SIDE OF UTILITY POLE, JUST SOUTH OF 14 MILE INTERSECTION ON EAST SIDE OF MOUND ROAD. AND +/- 7' EAST OF EAST BACK OF CURB.

STATION: 162+49.52 OFFSET: 28.59 ALI: MOUND RD LEGAL ALI ELEVATION: 621.591 SDZ=0.003

DESCRIPTION: ARROW ON TOP OF HYDRANT ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 4' EAST OF EAST SIDE OF SIDEWALK, +/- 375' SOUTH OF STERLING DRIVE, AND +/- 3' NORTH OF END OF GUARD RAIL.

STATION: 185+29.57 OFFSET: 100.08 ALI: MOUND RD LEGAL ALI ELEVATION: 617.141 SDZ=0.006

BENCHMARK#: 510

DESCRIPTION: SET COTTON PICKER ON WEST SIDE OF UTILITY POLE ON EAST SIDE NORTHBOUND MOUND ROAD. IN SOUTHWEST CORNER OF DART PROPERTIES. +/- 1190' SOUTH OF 15 MILE. +/- 670' NORTH OF STERLING DRIVE, AND +/- 17' EAST OF EAST BACK OF CURB. STATION: 203+97.88 OFFSET: 100.00 ALI: MOUND RD LEGAL ALI ELEVATION: 619.822 SDZ=0.006

BENCHMARK#: 511

DESCRIPTION: SET COTTON PICKER ON WEST SIDE OF UTILITY POLE ON EAST SIDE NORTHBOUND MOUND ROAD. +/- 2800' SOUTH OF CENTER DRIVE. 400' NORTH OF MILLETT AVENUE. +/- 9' EAST OF EAST BACK OF CURB, AND IN SOUTHWEST CORNER OF MOUND INDUSTRIAL COMMONS.

STATION: 226+75.33 OFFSET: 90.74 ALI: MOUND RD LEGAL ALI ELEVATION: 622.784 SDZ=0.006

BENCHMARK#: 512

DESCRIPTION: SET COTTON PICKER IN WEST SIDE OF UTILITY POLE ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 2580' NORTH OF MILLETT AVENUE. +/- 50' SOUTH OF CENTER DRIVE. +/- 9' EAST OF EAST BACK OF CURB, AND IN FRONT OF MOUND COMMERCE CENTER. STATION: 247+77.42 OFFSET: 90.77 ALI: MOUND RD LEGAL ALI ELEVATION: 625.377 SDZ=0.007

BENCHMARK#: 513

DESCRIPTION: SET "X" IN NORTHWEST BOLT IN LIGHT POLE IN MEDIAN OF METRO PARKWAY ON EAST SIDE NORTHBOUND MOUND ROAD, AND +/- 75' EAST OF INTERSECTION.

STATION: 268+85.11 OFFSET: 115.35 ALI: MOUND RD LEGAL ALI ELEVATION: 627.087 SDZ=0.006

BENCHMARK#: 514

DESCRIPTION: SET COTTON PICKER ON WEST SIDE OF UTILITY POLE ON EAST SIDE NORTHBOUND MOUND ROAD. +/- 590' SOUTH OF ROBOVENT DRIVEWAY, +/- 150' NORTH OF WALL STREET, AND +/- 13' EAST OF EAST BACK OF CURB.

STATION: 289+46.91 OFFSET: 99.42 ALI: MOUND RD LEGAL ALI ELEVATION: 627.636 SDZ=0.008

BENCHMARK#: 515

DESCRIPTION: SET COTTON PICKER ON WEST SIDE OF UTILITY POLE ON EAST SIDE NORTHBOUND MOUND ROAD. +/- 1350' SOUTH OF 17 MILE ROAD, AND +/- 250' NORTH OF GENERAL DYNAMICS DRIVEWAY. STATION: 308+86.89 OFFSET: 96.11 ALI: MOUND RD LEGAL ALI ELEVATION: 624.549 SDZ=0.009

BENCHMARK#: 516

DESCRIPTION: CHISELED SQUARE IN SOUTHWEST CORNER OF LIGHT POLE ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 2430' SOUTH OF SIMS DRIVE, +/- 850' NORTH OF 17 MILE ROAD, AND JUST SOUTH OF GATE 6 OF FORD PLANT.

STATION: 330+96.13 OFFSET: 102.63 ALI: MOUND RD LEGAL ALI ELEVATION: 627.492 SDZ=0.009

DESCRIPTION: SET COTTON PICKER IN WEST SIDE OF UTILITY POLE ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 340' SOUTH OF SIMS DRIVE, +/- 200' EAST OF GATEWOOD DRIVE CENTERLINE, AND IN FRONT OF NU BUILT CABINETS, INC.

STATION: 351+85.12 OFFSET: 98.48 ALI: MOUND RD LEGAL ALI ELEVATION: 627.348 SDZ=0.010

BENCHMARK#: 518

DESCRIPTION: SET COTTON PICKER ON WEST SIDE OF UTILITY POLE ON EAST SIDE NORTHBOUND MOUND ROAD. +/- 470' SOUTH OF 18 MILE ROAD. AND IN FRONT OF PROGRESSIVE BUILDING.

STATION: 370+56.73 OFFSET: 102.92 ALI: MOUND RD LEGAL ALI ELEVATION: 629.879 SDZ=0.010

DESCRIPTION: SET COTTON PICKER ON WEST SIDE OF UTILITY POLE ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 1530' NORTH OF 18 MILE ROAD. +/- 600' SOUTH OF 18 1/2 MILE ROAD. AND +/- 300' NORTH OF RIVER.

STATION: 390+55.47 OFFSET: 91.55 ALI: MOUND RD LEGAL ALI ELEVATION: 627.167 SDZ=0.011

BENCHMARK#: 520

ELEVATION: 633.369

DESCRIPTION: SET CHISELED SQUARE IN WEST SIDE OF FLAG POLE ON EAST SIDE NORTHBOUND MOUND ROAD, +/- 1800' SOUTH OF 19
MILE ROAD, +/- 1000 NORTH OF 18 12 MILE ROAD, AND INFROND OF CENERAL SHALE BRICK BUILDING:

ACCEPTED
ACCEPTED

STATION: 410+31.18

SDZ=0.010

OFFSET: 123.74 ALI: MOUNDERDEDEGADIADI AMEND AND RESUBMIT REJECTED - SEE REMARKS

BY Stu Giller



DATE 10/28/2022

25

SURVEY INFORMATION SHEET FINAL ROW PLAN REVISIONS (SUBMITTAL DATE DATE: 10/12/22 CS: INFR50000 DRAWING SHEET O. DATE AUTH MOUND SECT 1 NO SCALE DESCRIPTION NO. DATE DESCRIPTION DESIGN UNIT: XXX JN: 207178A SURVEY FILE: 207178_Survey_Info_Sheet.doc TSC: MACOMB

BENCHMARK#: 521

DESCRIPTION: CHISELED "X" IN SOUTHWEST TOP BOLT OF HYDRANT ON EAST SIDE OF MOUND ROAD, +/- 380' NORTH OF 19 MILE ROAD CENTELINE, +/- 260' SOUTH OF BURROUGHS AVENUE CENTERLINE, IN FRONT OF HOUSE #43080, AND IN BETWEEN CURB AND SIDEWALK. STATION: 432+31.82 OFFSET: 89.84 ALI: MOUND RD LEGAL ALI **ELEVATION: 636.528** SDZ=0.010

DESCRIPTION: CHISELED "X" IN SOUTHWESTERLY TOP BOLT ON HYDRANT ON EAST SIDE OF MOUND ROAD, +/- 600' SOUTH OF STACY AVENUE, +/- 330' NORTH OF GOFF AVENUE, AND IN FRONT OF DECOR STATUETTE BUILDING.

STATION: 451+33.61 OFFSET: 90.62 ALI: MOUND RD LEGAL ALI ELEVATION: 640.999 SDZ=0.010

BENCHMARK#: 523

DESCRIPTION: CHISELED "X" ON SOUTHWESTERLY BOLT OF HYDRANT ON EAST SIDE OF MOUND ROAD. +/- 320' NORTH OF POPLAR AVENUE. +/- 260' SOUTH OF CATALPA AVENUE, AND IN FRONT OF IFG BUILDING. STATION: 472+88.82 OFFSET: 90.21 ALI: MOUND RD LEGAL ALI ELEVATION: 645.144 SDZ=0.009

BENCHMARK#: 524

DESCRIPTION: SET COTTON PICK IN WEST SIDE OF UTILITY POLE ON EAST SIDE OF MOUND ROAD, +/- 250' NORTH OF DOBRY DRIVE WEST, +/- 105' SOUTHEAST OF SOUTHEAST CORNER OF SHELBY TOWNSHIP GROUND SIGN. AND IN FRONT OF COURTLAND RACQUETBALL CLUB BUILDING.

STATION: 490+44.14 OFFSET: 87.37 ALI: MOUND RD LEGAL ALI ELEVATION: 651.298 SDZ=0.007

BENCHMARK#: 525

DESCRIPTION: SET PK NAIL IN SOUTHEAST CORNER IN CONCRETE PAD OF TRANSFORMER ON WEST SIDE OF MOUND ROAD, +/- 85' SOUTH OF UNOS BUILDING GROUND SIGN, AND +/- 40' WEST OF WEST CURB FACE OF SOUTHBOUND MOUND ROAD.

STATION: 480+22.75 OFFSET: -111.59 ALI: MOUND RD LEGAL ALI ELEVATION: 648.496 SDZ=0.008

BENCHMARK#: 526

DESCRIPTION: SET COTTON PICKER IN EAST SIDE OF UTILITY POLE ON WEST SIDE OF MOUND ROAD, +/- 40' SOUTH OF PINE AIRER DRIVE, +/-20' SOUTH OF SOUTH CURB FACE OF PINE AIRES DRIVE, AND +/- 8' WEST OF WEST CURB FACE OF SOUTHBOUND MOUND ROAD. STATION: 463+93.19 OFFSET: -80.49 ALI: MOUND RD LEGAL ALI ELEVATION: 641.553 SDZ=0.009

BENCHMARK#: 527

DESCRIPTION: SET "ARROW" ON TOP OF HYDRANT ON WEST SIDE OF MOUND ROAD, +/- 100' TO MAILBOX # 43409, BETWEEN THE CURB AND SIDEWALK, +/- 1100' SOUTH OF CANNES DRIVE, +/- 90' SOUTH OF DRIVEWAY OF ADDRESS 43463 SOUTHBOUND MOUND ROAD, AND +/-15' WEST OF WEST CURB FACE OF SOUTHBOUND MOUND ROAD. STATION: 443+27.19 OFFSET: -88.65 ALI: MOUND RD LEGAL ALI ELEVATION: 638.313 SDZ=0.010

BENCHMARK#: 528

DESCRIPTION: SET "ARROW" ON TOP OF HYDRANT ON WEST SIDE OF MOUND ROAD, SOUTH 25' TO CENTERLINE OF HEINDALE ROAD, +/- 35' WEST OF WEST CURB FACE OF SOUTHBOUND MOUND ROAD. STATION: 422+10.45 OFFSET: -117.82 ALI: MOUND RD LEGAL ALI **ELEVATION: 634.499** SDZ=0.010

BENCHMARK#: 529

DESCRIPTION: CHISELED "X" ON SOUTHEASTERLY TOP BOLT ON HYDRANT ON WEST SIDE OF MOUND ROAD, NORTH +/- 40' TO 18 1/2 MILE ROAD, +/- 20' WEST OF WEST CURB FACE OF SOUTHBOUND

STATION: 400+92.23 OFFSET: -96.63 ALI: MOUND RD LEGAL ALI ELEVATION: 630.721 SDZ=0.011

DESCRIPTION: SET "ARROW" ON TOP OF HYDRANT ON WEST SIDE OF MOUND ROAD, SOUTH +/- 350' TO 18 MILE ROAD, +/- 15' NORTH OF NORTH CURB FACE OF DEPARTMENT OF HUMAN RESOURCES DRIVEWAY.

STATION: 379+08.25 OFFSET: -92.30 ALI: MOUND RD LEGAL ALI ELEVATION: 630.040 SDZ=0.010

BENCHMARK#: 531

DESCRIPTION: SET RAILROAD TIE IN EAST SIDE OF UTILITY POLE ON WEST SIDE OF MOUND ROAD, +/- 340' NORTH OF BRIDGEWOOD DRIVE CENTERLINE, +/- 200' SOUTH OF CASADEI STEEL SIGN.

STATION: 362+58.31 OFFSET: -92.50 ALI: MOUND RD LEGAL ALI **ELEVATION: 630.391** SDZ=0.010

DESCRIPTION: SET COTTON PICKER IN EAST SIDE OF UTILITY POLE ON WEST SIDE OF MOUND ROAD IN FRONT OF HOUSE #39675, +/- 350' SOUTH OF BRANCH STREET CENTELINE, AND +/- 250' NORTH OF GARDNER STREET EAST CENTERLINE.

STATION: 342+16.47 OFFSET: -94.05 ALI: MOUND RD LEGAL ALI ELEVATION: 625.650 SDZ=0.010

DESCRIPTION: SET "ARROW" ON TOP OF HYDRANT ON WEST SIDE OF MOUND ROAD, WEST TO CAR WASH EXIT, +/- 300' SOUTH OF 17 MILE ROAD CENTELINE, AND +/- 15' NORTH OF NORTH CURB FACE OF DRIVEWAY TO POWER HOME SOLAR ROOFING.

STATION: 319+44.10 OFFSET: -92.21 ALI: MOUND RD LEGAL ALI ELEVATION: 626.766 SDZ=0.009

BENCHMARK#: 534

DESCRIPTION: SET RAILROAD TIE IN EAST SIDE OF UTILITY POLE ON WEST SIDE OF MOUND ROAD ON NORTH SIDE OF FOX HILL PLAZA, AND +/- 8' SOUTH OF SOUTH CURB FACE OF STERLING CORPORATE CENTER DRIVEWAY.

STATION: 299+13.28 OFFSET: -90.75 ALI: MOUND RD LEGAL ALI ELEVATION: 626.976 SDZ= 0.009

BENCHMARK#: 535

DESCRIPTION: SET COTTON PICKER IN EAST SIDE OF UTILITY POLE ON WEST SIDE OF MOUND ROAD, SOUTH SIDE OF JET AMERICAN PIZZA. AND +/- 190' NORTH OF PARIS STREET CENTELINE. STATION: 281+62.89 OFFSET: -89.71 ALI: MOUND RD LEGAL ALI ELEVATION: 626.015 SDZ=0.008

DESCRIPTION: SET COTTON PICKER IN EAST SIDE OF UTILITY POLE ON WEST SIDE OF MOUND ROAD, JUST SOUTH OF SEABREEZE LANE, AND +/- 85' SOUTHEAST OF MEADOWVIEW VILLAGE CONDOS SIGN. STATION: 259+42.69 OFFSET: -89.26 ALI: MOUND RD LEGAL ALI ELEVATION: 625.067 SDZ=0.003

BENCHMARK#: 537

DESCRIPTION: CHISELED SQUARE IN EAST SIDE OF CONCRETE LIGHT POLE ON WEST SIDE OF MOUND ROAD, IN FRONT OF FLEX N GATE BUILDING, +/- 700' SOUTH OF DOMINION CIRCLE DRIVE, AND +/- 50' WEST OF WEST CURB FACE OF SOUTHBOUND MOUND ROAD. STATION: 237+99.25 OFFSET: -133.89 ALI: MOUND RD LEGAL ALI ELEVATION: 624,766 SDZ=0.005

DESCRIPTION: CHISELED SQUARE IN EAST SIDE OF LIGHT POLE OF WEST SIDE OF MOUND ROAD, SOUTHWEST CORNER OF 15 MILE AND MOUND ROAD INTERSECTION, +/- 120' NORTH OF CHILI PEPPERS DRIVEWAY, AND +/- 70' SOUTH OF 15 MILE ROAD CENTELINE. STATION: 215+19.06 OFFSET: -89.34 ALI: MOUND RD LEGAL ALI ELEVATION: 620.145 SDZ=0.004

BENCHMARK#: 539

DESCRIPTION: CHISELED SQUARE IN EAST SIDE OF CONCRETE BASE OF LIGHT POLE ON WEST SIDE OF MOUND ROAD. IN FRONT OF KWIK KAR WASH, +/- 170' SOUTH OF KREGER STREET CENTERLINE, AND +/-45' WEST OF WEST CURB FACE OF SOUTHBOUND MOUND ROAD. STATION: 196+42.93 OFFSET: -130.87 ALI: MOUND RD LEGAL ALI ELEVATION: 617.549 SDZ=0.001

BENCHMARK#: 540

DESCRIPTION: SET COTTON PICKER ON EAST SIDE OF UTILITY POLE ON WEST SIDE OF MOUND ROAD, +/- 190' SOUTH OF WIMSATT BUILDING DRIVEWAY, AND +/- 20' NORTH OF SOUTHLAWN DRIVE

STATION: 175+78.42 OFFSET: -103.81 ALI: MOUND RD LEGAL ALI ELEVATION: 616.748 SDZ=0.005

BENCHMARK#: 541

DESCRIPTION: SET COTTON PICKER ON EAST SIDE OF UTILITY POLE ON WEST SIDE OF MOUND ROAD, IN FRONT OF BRONX BURGER BUILDING, +/- 900' SOUTH OF EAST 14 MILE ROAD CENTERLINE, AND +/-210' NORTH OF STREEFKERK DRIVE CENTERLINE. STATION: 154+12.40 OFFSET: -148.78 ALI: MOUND RD LEGAL ALI

ELEVATION: 617.905 SDZ=0.003

DESCRIPTION: SET COTTON PICKER IN EAST SIDE OF UTILITY POLE ON WEST SIDE OF MOUND RD, ON NORTHEAST CORNER OF HYDRO CAPITOL, +/- 170' SOUTH OF ARDEN AVE CL, AND +/- 42' EAST OF NORTHEAST CORNER OF GREAT AUTO SALES BLDG. STATION: 143+99.79 OFFSET: -156.58 ALI: MOUND RD LEGAL ALI ELEVATION: 616.278 SDZ=0.003

BENCHMARK#: 543

DESCRIPTION: SET "ARROW" ON TOP OF HYDRANT ON WEST SIDE OF MOUND ROAD, +/- 100' SOUTH TO CHICAGO ROAD, AND +/- 275' SOUTH OF RED RUN CREEK.

STATION: 134+20.94 OFFSET: -157.91 ALI: MOUND RD LEGAL ALI ELEVATION: 617.069 SDZ=0.004

BENCHMARK#: 544

DESCRIPTION: CHISELED SQUARE IN EAST SIDE OF METAL LIGHT POLE BASE ON WEST SIDE OF MOUND ROAD, RIGHT AT "U" TURN INTERSECTION LIGHT, 850' SOUTH OF BEEBE AVENUE CENTELINE, AND +/- 110' TO SOUTHEAST CORNER OF PROGRESSIVE PLUMBING BUILDING.

STATION: 114+45.92 OFFSET: -160.49 ALI: MOUND RD LEGAL ALI ELEVATION: 617.781 SDZ=0.003

BENCHMARK#: 545

DESCRIPTION: SET COTTON PICKER ON EAST SIDE OF UTILITY POLE ON WEST SIDE OF MOUND ROAD, IN FRONT OF HERITAGE VILLAGE HOMES, +/- 1200' SOUTH OF EAST THIRTEEN MILE ROAD, +/- 250' NORTH OF GREENVIEW DRIVE. AND +/- 25' WEST OF WEST CURB FACE OF SOUTHBOUND MOUND ROAD. STATION: 94+85.02 OFFSET: -109.29 ALI: MOUND RD LEGAL ALI

ELEVATION: 618.088 SDZ=0.005

BENCHMARK#: 546

DESCRIPTION: SET COTTON PICKER ON EAST SIDE OF UTILITY POLE ON WEST SIDE OF MOUND ROAD, +/- 170'NORTH OF MEIJER DRIVEWAY, AND +/- 100' SOUTH OF WATERVIEW DRIVE. STATION: 72+76.83 OFFSET: -107.42 ALI: MOUND RD LEGAL ALI

ELEVATION: 618.591 SDZ=0.005

BENCHMARK#: 547

DESCRIPTION: CHISELED SQUARE IN CONCRETE ON EAST SIDE OF LIGHT POLE ON WEST SIDE OF MOUND ROAD, IN FRONT OF MCDONALD'S, +/- 270' NORTH OF ELMGROVE AVENUE, AND +/- 200' SOUTH OF TWELVE MILE ROAD CENTERLINE. STATION: 51+55.18 OFFSET: -90.27 ALI: MOUND RD LEGAL ALI

ELEVATION: 621.045 SDZ=0.005

BENCHMARK#: 548

DESCRIPTION: SET COTTON PICKER ON EAST SIDE OF UTILITY POLE ON WEST SIDE OF MOUND ROAD, +/- 20' NORTH OF ELMER AVENUE CENTERLINE. AND +/- 75' SOUTHEAST OF SOUTHEAST CORNER OF MANCINI KLINE PC BULIDING.

STATION: 32+12.19 OFFSET: -105.34 ALI: MOUND RD LEGAL ALI ELEVATION: 618.963 SDZ=0.006

> **Innovate Mound Project** REVIEW

APPROVED APPROVED AS NOTED □ ACCEPTED 🗹 ACCEPTED AS NOTED

AMEND AND RESUBMIT REJECTED - SEE REMARKS

BY Stu Gillin



DATE 10/28/2022







DRAWING SHEET

SURVEY

GOVERNMENT CORNERS

SECTION CORNER: T1N-R12E / C-2

DESCRIPTION: FOUND 1/2" IRON IN BOX.

COORDINATES: N=377089.32 E=13473342.89

STATION: 133+06.36 OFFSET: -5604.2819 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N48°E 67.63' PK IN SOUTHEAST SIDE OF UTILITY POLE

2. N24°W 108.04' PK IN SOUTHWEST SIDE OF UTILITY POLE

3. S52°W 50.84' PK IN NORTH SIDE OF UTILITY POLE

4. S54°W 79.14' CENTER TOP NUT OF HYDRANT

SECTION CORNER: T1N-R12E D-1

DESCRIPTION: FOUND REMONUMENTATION CAP IN BOX.

COORDINATES: N=380213.59 E=13476005.83

STATION: 162+65.81 OFFSET: -2808.5306 ALI: MOUND RD LEGAL ALI WITNESSES:

1. S30°W 59.62' PK NAIL IN NORTHWEST SIDE OF UTILITY POLE

2. N32°W 73.82' SET NAIL AND TAG IN EAST SIDE OF 14" MAPLE TREE

3. N26°E 47.65' SET NAIL AND TAG IN SOUTHEAST SIDE OF 12"

MAPLE TREE

4. S15°E 80.16' TO TOP CENTER NUT OF HYDRANT

SECTION CORNER: T1N-R12E / D-2

DESCRIPTION: FOUND REMONUMENTATION CAP IN BOX.

COORDINATES: N=377227.76 E=13476141.52

STATION: 133+05.70 OFFSET: -2802.2430 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N45°W 0.96' OUTER RIM OF MANHOLE

2. S78°W 140.84' "X" ON NORTHEAST BOLT OF HYDRANT

3. SOUTH 21.92' PK IN WEST SIDE OF UTILITY POLE

4. N34°E 25.16' PK IN NORTHWEST SIDE OF UTILITY POLE

SECTION CORNER: T1N-R12E / D-3

DESCRIPTION: FOUND REMONUMENTATION CAP IN MONUMENT BOX. COORDINATES: N=374673.85 E=13476253.28

STATION: 107+49.47 OFFSET: -2827.2987 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N04°E 49.30' PK IN WEST SIDE OF UTILITY POLE

2. S77°W 106.41' PK IN NORTHWEST SIDE OF UTILITY POLE

3. N73°W 107.08' "X" IN SOUTHWEST SIDE OF LIGHT POLE

4. S76°E 120.73' FOUND PK IN NORTHEAST SIDE OF UTILITY POLE

SECTION CORNER: T1N-R12E / D-5

DESCRIPTION: FOUND REMONUMENTATION IN MONUMENT BOX.

COORDINATES: N=369342.08 E=13476478.17

STATION: 53+76.61 OFFSET: -2822.3496 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N03°E 52.97' FOUND PK NAIL AND TAG IN EAST SIDE OF UTILITY POI F

2. N55°W 93.16' CENTER TOP OF SOUTHEAST BOLT OF TRAFFIC POLE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:

NO.

DESCRIPTION

IO. DATE AUTH

3. S53°W 91.13' STEEL FENCE POST

4. S55°E 88.86' CENTER TOP OF NORTHWEST BOLT OF LIGHT POLE

SECTION CORNER: T1N-R12E / E-1; T2N-R12E / E-13

DESCRIPTION: FOUND 1/2" IRON IN MONUMENT BOX.

COORDINATES: N=380391.49 E=13478809.29 STATION: 163+22.31 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI

WITNESSES:

1. S46°E 66.95' PK NAIL AND TAG IN SOUTHWEST SIDE OF UTILITY POLE

2. N29°E 67.63' PK NAIL AND TAG IN SOUTHWEST SIDE OF UTILITY

POLE 3. S49°W 80.55' PK NAIL AND TAG IN NORTHWEST SIDE OF UTILITY

POLE 4. N41°W 91.15' PK NAIL AND TAG IN NORTHEAST SIDE OF UTILITY

POLE

SECTION CORNER: T1N-R12E / E-2

DESCRIPTION: CORNER FALLS ON A STORM MANHOLE. FOUND AND SHOT 4 REFERENCE MONUMENTS TO CALULATE CORNER LOCATION. COORDINATES: N=377378.36 E=13478939.71

STATION: 133+06.36 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N49°E 45.55' REFERENCE MONUMENT NO. 1

2. N51°W 71.28' REFERENCE MONUMENT NO. 2 3. S46°W 68.76' REFERENCE MONUMENT NO. 3

4. S25°E 103.28' REFERENCE MONUMENT NO. 4

SECTION CORNER: T1N-R12E / E-3

DESCRIPTION: FOUND 3/4" PIPE IN MONUMENT BOX.

COORDINATES: N=374787.41 E=13479078.55

STATION: 107+11.69 OFFSET: 0.0000 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N58°E 45.80' "X" IN NORTHWEST BOLT OF LIGHT POLE 2. N44°W 94.26' MAG NAIL AND TAG IN SOUTHWEST SIDE OF UTILITY POLE

3. S49°W 96.95' "X" IN NORTHWEST BOLT IN LIGHT POLE

4. S62°E 69.64' STEEL FENCE POST SECTION CORNER: T1N-R12E / E-4

DESCRIPTION: FOUND REMONUMENTATION CAP IN MONUMENT BOX IN MEDIAN.

COORDINATES: N=372132.40 E=13479201.23

STATION: 80+53.85 OFFSET: 0.0000 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N46°W 130.24' CENTER TOP NUT OF HYDRANT

2. N45°E 51.08' SOUTHEAST CORNER OF CURB INLET CATCH BASIN

3. S34°E 24.15' SET NAIL AND TAG IN SOUTHWEST SIDE OF 10" JACK PINE TREE

4. N20°E 28.24' SET NAIL AND TAG IN WEST SIDE OF 9" MAPLE TREE

SECTION CORNER: T1N-R12E / E-5

DESCRIPTION: FOUND REMONUMENTATION CAP IN MONUMENT BOX. COORDINATES: N=369468.27 E=13479297.72

STATION: 53+87.97 OFFSET: 0.0000 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N02°E 64.94' FOUND "X" ON SOUTH SIDE OF LIGHT POLE 2. S87°E 104.77' FOUND "X" ON WEST SIDE OF LIGHT POLE

3. S01°W 76.96' FOUND "X" ON NORTH SIDE OF LIGHT POLE 4. N87°W 95.93' FOUND "X" ON EAST SIDE OF LIGHT POLE

SECTION CORNER: T1N-R12E / E-6

DESCRIPTION: FOUND REMONUMENTATION CAP IN MONUMENT BOX IN GRASS MEDIAN.

COORDINATES: N=366790.32 E=13479406.77

STATION: 27+07.80 OFFSET: 0.0000 ALI: MOUND RD LEGAL ALI

1. S06°W 6.40' FOUND PK WITH TAG IN WEST SIDE OF UTILITY POLE

2. S82°E 19.80' TO BACK OF CONCRETE CURB

3. N89°W 31.33' TO BACK OF CONCRETE CURB 4. N70°W 126.59' TO CENTER TOP NUT TO HYDRANT

SECTION CORNER: T1N-R12E / E-7

DESCRIPTION: FOUND 1/2" IRON.

COORDINATES: N=364085.03 E=13479523.37

STATION: 0+00.00 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N33°E 46.69' FOUND MAG NAIL AND TAG IN BRIDGE ABUTMENT WESTBOUND 11 MILE ROAD

2. S85°E 22.57' FOUND MAG NAIL AND TAG ON TOP OF CONCRETE WALL

3. S24°E 47.31' FOUND MAG NAIL AND TAG IN BRIDGE ABUTMENT EASTBOUND 11 MILE ROAD

4. N84°W 12.96' EAST EDGE OF CONCRETE SOUTHBOUND MOUND ROAD

SECTION CORNER: T1N-R12E / F-1; T2N-R12E / F-13

DESCRIPTION: FOUND PK NAIL IN CENTERLINE OF RAILROAD TRACKS. COORDINATES: N=380527.93 E=13481306.27

STATION: 163+36.13 OFFSET: 2500.67 ALI: MOUND RD LEGAL ALI WITNESSES:

1. S51°E 63.47' PK NAIL AND TAG IN SOUTHWEST SIDE OF UTILITY POLE

2. N53°W 80.29' "X" ON EAST SIDE OF SANITARY MANHOLE

3. N34°E 38.05' TOP CENTER SOUTHWEST BOLT OF RAILROAD SIGNPOST 4. S36°W 59.90' SET NAIL AND TAG IN SOUTHWEST SIDE OF UTILITY

SECTION CORNER: T1N-R12E / F-2

POLE

DESCRIPTION: FOUND PK (MAC CO. ACT) IN RAILROAD TIE CENTERLINE OF TRACKS.

COORDINATES: N=377470.86 E=13481412.88

STATION: 132+66.39 OFFSET: 2474.57 ALI: MOUND RD LEGAL ALI WITNESSES:

1. S09°W 24.41' PK NAIL AND TAG

2. N07°W 30.58' PK NAIL AND TAG

3. S26°E 44.10' PK NAIL AND TAG

4. S66°E 49.30' NORTHWEST CORNER OF BUILDING

SECTION CORNER: T1N-R12E / F-5

DESCRIPTION: FOUND REMONUMENTATION CAP IN CENTERLINE OF RAILROAD TRACKS.

COORDINATES: N=369578.02 E=13481757.78

STATION: 54+08.61 OFFSET: 2462.42 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N60°E 25.76' FOUND PK NAIL AND TAG IN HEADWALL 2. N49°W 24.71' FOUND PK NAIL AND TAG IN HEADWALL

3. S18°E 25.52' SET PK IN BITUMINOUS

4. S68°W 26.72' TO FACE OF END STEEL FENCE POST

DATE: 10/12/22

TSC: MACOMB

DESIGN UNIT: XXX

SECTION CORNER: T2N-R12E / C-4

DESCRIPTION: FOUND CAPPED IRON (CAN'T READ). COORDINATES: N=403885.77 E=13472154.36

STATION: 401+21.59 OFFSET: -5424.52 ALI: MOUND RD LEGAL ALI

1, S30°W 106.16' SET NAIL AND TAG IN NORTHWEST FACE OF

UTILITY POLE 2. N28°W 109.76' SET NAIL AND TAG IN NORTHEAST FACE OF UTILITY POLE

3. S76°W 28.77' NORTHEAST FORNER OF CURB INLET

4. N20°E 216.30' SOUTHEAST CORNER CONCRETE WALL

SECTION CORNER: T2N-R12E / D-1

DESCRIPTION: FOUND REMONUMENTATION CAP. COORDINATES: N=412702.07 E=13474488.68

STATION: 488+08.14 OFFSET: -2635.01 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N04°E 11.46' SET NAIL AND TAG IN WEST SIDE OF 28" COTTONWOOD TREE

2. N70°W 10.62' TO FACE OF 2" STEEL CORNER POST

3. N76°E 33.08' FOUND PK ON NORTH SIDE OF UTILITY POLE

4. S74°E 19.08' FOUND PK NAIL AND TAG IN TOP OF GUARDRAIL POST

SECTION CORNER: T2N-R12E / D-3

DESCRIPTION: FOUND 5/8" IRON.

COORDINATES: N=406704.68 E=13474719.47

STATION: 428+14.03 OFFSET: -2715.30 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N36°W 17.86' TO NORTHEAST CORNER OF INLET CATCH BASIN 2. S46°W 23.60' TO SOUTHEAST CORNER OF INLET CATCH BASIN

3. N84°E 47.53' SET NAIL AND TAG IN SOUTH SIDE OF 4" MAPLE TREE 4. S86°W 37.78' SET NAIL AND TAG IN NORTH SIDE OF 3" MAPLE

SECTION CORNER: T2N-R12E / D-5

TREE

DESCRIPTION: FOUND REMONUMENTATION CAP IN BOX.

COORDINATES: N=401374.85 E=13475059.83 STATION: 374+81.32 OFFSET: -2648.99 ALI: MOUND RD LEGAL ALI WITNESSES:

1. S75°W 94.69' NAIL AND TAG IN SOUTHEAST SIDE OF UTILITY POLE

2. N75°E 155.39' CONCRETE MONUMENT (PLAT)

3. S70°E 78.51' SET NAIL AND TAG IN SOUTHWEST SIDE OF UTILITY POLE

4. S30°W 80.56' SET NAIL AND TAG IN SOUTHWEST SIDE OF 16" MAPI F TRFF

SECTION CORNER: T2N-R12E / D-7

DESCRIPTION: FOUND REMONUMENTATION CAP IN BOX. COORDINATES: N=396129.56 E=13475240.06

STATION: 322+24.88 OFFSET: -2725.11 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N43°W 43.02' PK NAIL AND TAG IN SOUTHWEST SIDE OF UTILITY POLE

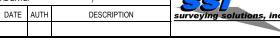
2. N64°E 135.60' 3. S33°E 53.00' MAPLE TREE 4. S60°W 116.50'

ECREMIE WON APPROVED AS NOTED \$ET NAIL AND TAG IN SOUTHWESTESTDEASPORTED AMEND AND RESUBMIT

TOPOCENTER OF SANITARY MANHOLE REMARKS BY Str. Giller

DATE 10/28/2022

DRAWING SHEET MOUND SECT 1





SURVEY

SECTION CORNER: T2N-R12E / D-9

DESCRIPTION: FOUND CONCRETE MONUMENT WITHOUT CAP. COORDINATES: N=390789.69 E=13475476.98

STATION: 268+83.85 OFFSET: -2769.85 ALI: MOUND RD LEGAL ALI WITNESSES:

1. NORTH 33.48' FOUND BACK OF CURB 2. SOUTH 33.12' FOUND BACK OF CURB

3. S02°W 94.95' SET NAIL AND TAG IN WEST SIDE OF UTILITY POLE 4. S32°W 115.73' SET NAIL AND TAG IN NORTHWEST SIDE OF UTILITY POLE

SECTION CORNER: T2N-R12E / D-11

DESCRIPTION: FOUND REMONUMENTATION CAP IN MONUMENT BOX. COORDINATES: N=385479.22 E=13475736.07 STATION: 215+49.33 OFFSET: -2824.88 ALI: MOUND RD LEGAL ALI

WITNESSES:

1. N39°E 55.36' TOP CENTER NUT OF HYDRANT

2. S00°E 99.57' FOUND NORTHWEST CORNER OF BLOCK

FOUNDATION

3. N31°W 49.60' PK NAIL AND TAG IN SOUTHWEST SIDE OF UTILITY POLE

4. S38°W 69.23' SET NAIL AND TAG IN NORTHWEST SIDE OF UTILITY POLE

SECTION CORNER: T2N-R12E / D-13

DESCRIPTION: FOUND REMONUMENTATION CAP IN BOX. COORDINATES: N=380197.45 E=13475753.13

STATION: 162+60.62 OFFSET: -3061.69 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N36°W 50.36' CENTER NUT OF HYDRANT

2. EAST 253.21' D-1

3. S12°E 50.85' SET NAIL AND TAG IN WEST SIDE OF UTILITY POLE 4. S61°W 108.51' SET NAIL AND TAG IN NORTH SIDE OF UTILITY POLE

SECTION CORNER: T2N-R12E / E-1

DESCRIPTION: FOUND 3/4" IRON WITHOUT CAP IN GRASS. COORDINATES: N=412841.30 E=13477120.02 STATION: 488+16.49 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N18°E 94.94' SET NAIL AND TAG IN SOUTH SIDE OF UTILITY POLE 2. N34°W 8.73' FOUND NAIL AND TAG IN SOUTHWEST SIDE OF UTILITY POLE

3. S55°E 15.04' NORTHWEST CORNER OF CURB INLET MANHOLE 4. N84°W 98.60' SET NAIL AND TAG IN NORTH SIDE OF UTILITY POLE

SECTION CORNER: T2N-R12E / E-2

DESCRIPTION: FOUND REMONUMENTATION CAP IN MONUMENT BOX. COORDINATES: N=409479.51 E=13477287.22 STATION: 454+50.54 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI

WITNESSES: 1. N79°E 95.43' "X" ON SOUTHWEST BOLT OF HYDRANT 52.88' "X" NORTH SIDE OF RIM OF STORM MANHOLE 3. N70°W 95.19' FOUND PK IN NORTH SIDE OF UTILITY POLE 4. S22°W 34.33' SET NAIL AND TAG IN WEST SIDE OF 10" MAPLE TREE

SECTION CORNER: T2N-R12E / E-3

DESCRIPTION: FOUND REMONUMENTATION CAP IN MONUMENT BOX. COORDINATES: N=406870.52 E=13477429.80

STATION: 428+37.66 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N70°W 141.29' PK IN SOUTHWEST SIDE OF UTILITY POLE 2. N73°E 104.03' PK NAIL AND TAG IN NORTHWEST SIDE OF UTILITY POLE

3. S60°W 121.22' TO CENTER NUT ON HYDRANT

4. N13°W 39.54' SET NAIL AND TAG IN EAST SIDE OF UTILITY POLE

SECTION CORNER: T2N-R12E / E-4

DESCRIPTION: FOUND 3/4" IRON.

COORDINATES: N=404182.07 E=13477570.83 STATION: 401+45.51 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N78°E 147.19' TOP CENTER NUT OF HYDRANT

2. S60°E 105.62' PK IN SOUTHWEST SIDE OF UTILITY POLE

3. S61°W 110.01' TOP CENTER NUT OF HYDRANT

4. N80°W 140.35' TO TOP CENTER NUT OF HYDRANT

SECTION CORNER: T2N-R12E / E-5

DESCRIPTION: FOUND REMONUMENTATION CAP IN MONUMENT BOX. COORDINATES: N=401550.51 E=13477703.15 STATION: 375+10.63 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI

WITNESSES: 1. N56°W 106.39' NAIL AND TAG IN SOUTHWEST SIDE OF UTILITY POLE

2. S66°W 108.13' PK IN SOUTHEAST SIDE OF UTILITY POLE 3. S06°E 100.51' "X" CENTER LINE NUT OF HYDRANT

4. N68°E 109.46' PK NAIL IN SOUTHEAST SIDE OF UTILITY POLE

SECTION CORNER: T2N-R12E / E-6

DESCRIPTION: FOUND 3/4" IRON WITHOUT CAP. COORDINATES: N=398899.96 E=13477849.86

STATION: 348+56.02 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N86°W 93.89' NAIL AND TAG IN NORTH FACE OF UTILITY POLE

2. N70°E 101.90' CONCRETE PLAT MONUMENT 3. S16°E 24.82' "X" ON NORTH RIM OF MANHOLE

4. S47°W 141.54' PK NAIL AND TAG IN EAST SIDE OF UTILITY POLE

SECTION CORNER: T2N-R12E / E-7

DESCRIPTION: FOUND REMONUMENTATION CAP IN MONUMENT BOX. COORDINATES: N=396281.34 E=13477960.96 STATION: 322+35.04 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI

WITNESSES: 1. N06°W 60.63' PK NAIL AND TAG IN EAST SIDE OF UTILITY POLE

2. N65°E 118.88' PK NAIL AND TAG IN SOUTHEAST SIDE OF UTILITY POI F

3. S54°E 124.78' PK NAIL AND TAG IN NORTHEAST SIDE OF UTILITY POLE

4. S61°W 125.74' PK NAIL AND TAG IN SOUTHEAST SIDE OF UTILITY POLE

SECTION CORNER: T2N-R12E / E-8

DESCRIPTION: FOUND CONCRETE MONUMENT WITHOUT CAP. COORDINATES: N=393611.35 E=13478099.91

STATION: 295+61.44 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI

1. N44°E 18.33' PK NAIL AND TAG IN SOUTHEAST SIDE OF UTILITY POI F

2. N66°W 99.95' PK NAIL AND TAG IN SOUTHEAST SIDE OF UTILITY

POLE

3. S72°W 98.22' PK NAIL AND TAG IN SOUTHEAST SIDE OF UTILITY POLE

4. S40°E 32.78' TO NORTHWEST CORNER OF CURB INLET CATCH **BASIN**

SECTION CORNER: T2N-R12E / E-9

DESCRIPTION: FOUND CONCRETE MONUMENT WITHOUT CAP. COORDINATES: N=390937.53 E=13478242.88

STATION: 268+83.80 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N40°W 150.32' PK NAIL AND TAG IN NORTHEAST SIDE OF UTILITY POLE

2. N48°E 144.75' PK NAIL AND TAG IN NORTHWEST SIDE OF UTILITY POLE

3. S87°E 116.40' "X" ON NORTHWEST BOLT OF LIGHT POLE 4. N85°W 115.13' "X" ON SOUTHEAST BOLT OF LIGHT POLE

SECTION CORNER: T2N-R12E / E-10

DESCRIPTION: FOUND REMONUMENTATION CAP WITHOUT BOX IN

COORDINATES: N=388297.04 E=13478384.08 STATION: 242+39.54 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI

WITNESSES:

1. N90°E 12.73' PK NAIL AND TAG IN SOUTH SIDE OF UTILITY POLE 2. S02°E 132.40' PK NAIL AND TAG IN EAST SIDE OF UTILITY POLE 3. N27°W 21.55' "X" ON SOUTHEAST SIDE OF MANHOLE RIM

4. N86°W 91.78' PK NAIL AND TAG IN SOUTH SIDE OF UTILITY POLE

SECTION CORNER: T2N-R12E / E-11

DESCRIPTION: FOUND 5/8" IRON IN MONUMENT BOX. COORDINATES: N=385646.93 E=13478556.18

STATION: 215+83.85 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI WITNESSES:

1. S01°E 49.95' PK NAIL AND TAG IN EAST SIDE OF UTILITY POLE 2. S67°W 131.52' PK NAIL AND TAG IN NORTHWEST SIDE OF UTILITY POLE

3. N00°E 104.64' PK NAIL AND TAG IN WEST SIDE OF UTILITY POLE 4. N30°W 130.94' TO TOP CENTER NUT OF HYDRANT

SECTION CORNER: T2N-R12E / E-12

DESCRIPTION: FOUND REMONUMENTATION CAP IN MONUMENT BOX. COORDINATES: N=383024.00 E=13478680.03

STATION: 189+57.99 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N01°W 53.30' PK NAIL AND TAG IN WEST SIDE OF UTILITY POLE 2. S78°E 103.40' PK NAIL AND TAG IN NORTHWEST SIDE OF UTILITY POLE

3. SOUTH 99.01' PK NAIL AND TAG IN WEST SIDE OF UTILITY POLE 4. S12°W 13.91' SET NAIL AND TAG IN WEST SIDE OF MULBERRY TREE

SECTION CORNER: T2N-R12E / F-1

DESCRIPTION: FOUND 3/4" IRON IN BOX.

COORDINATES: N=412980.38 E=13479772.10

STATION: 488+23.99 OFFSET: 2655.71 ALI: MOUND RD LEGAL ALI WITNESSES:

1. S47°E 44.71' NAIL AND TAG IN NORTH SIDE OF UTILITY POLE 2. N11°W 58.09' NAIL AND TAG IN WEST SIDE OF UTILITY POLE

3. N46°W 38.78' TOP CENTER NUT OF HYDRANT 4. S22°W 45.96' SET NAIL AND TAG IN NORTHWEST SIDE OF 5"

CHERRY TREE

SECTION CORNER: T2N-R12E / F-3

DESCRIPTION: FOUND REMONUMENTATION CAP IN CENTERLINE OF RAIL ROAD TRACKS.

COORDINATES: N=406998.40 E=13480075.96

STATION: 428+26.74 OFFSET: 2649.23 ALI: MOUND RD LEGAL ALI WITNESSES:

1. S88°W 41.95' TOP CENTER NUT OF HYDRANT

2. S24°W 90.55' NORTHEAST VERTICAL BOLT OF RAILROAD SIGN BASE

3. N60°E 49.76' FOUND PK IN SOUTHEAST SIDE OF UTILITY POLE

4. S40°E 25.39' FOUND PK IN SOUTHWEST SIDE OF UTILITY POLE

SECTION CORNER: T2N-R12E / F-5

DESCRIPTION: FOUND REMONUMENTATION CAP IN BOX. COORDINATES: N=401732.35 E=13480340.36

STATION: 375+59.80 OFFSET: 2643.01 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N67°E 66.23' PK IN SOUTH SIDE OF UTILITY POLE

2. S48°E 86.10' PK WITH TAG IN SOUTH SIDE OF UTILITY POLE 3. S48°W 72.85' PK WITH TAG IN EAST SIDE OF UTILITY POLE

4. N53°W 79.06' CENTER NUT OF HYDRANT

SECTION CORNER: T2N-R12E / F-7

DESCRIPTION: FOUND REMONUMENTATION CAP IN BOX. COORDINATES: N=396438.65 E=13480597.83

STATION: 322+80.44 OFFSET: 2641.17 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N51°W 78.26' CHISELED "+" ON SOUTHWEST BOLT LIGHT POLE 2. S40°E 67.62' CHISELED "+" ON NORTHEAST BOLT LIGHT POLE

3. S60°E 163.41' CHISELED "+" ON TOP BOLT OF HYDRANT 4. N81°E 78.84' CHISELED "+" ON TOP OF WALL AT DEDICATION PLAQUE

SECTION CORNER: T2N-R12E / F-11

DESCRIPTION: FOUND PK NAIL IN CENTERLINE OF RAILROAD TRACKS. COORDINATES: N=385796.89 E=13481123.62

STATION: 215+83.85 OFFSET: -2571.82 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N44°E 50.17' PK NAIL AND TAG IN WEST SIDE OF UTILITY POLE 2. N59°E 100.53' PK NAIL AND TAG IN SOUTHEAST SIDE OF UTILITY POLE

3. S85°E 25.19' 1" PIPE IN MONUMENT BOX (WITNESS CORNER) 4. EAST 3.16' FOUND EDGE OF EAST RAIL OF MAIN RAILROAD **TRACK**

> Innovate Mound Project REVIEW

APPROVED AS NOTED □ ACCEPTED 🗹 ACCEPTED AS NOTED AMEND AND RESUBMIT

APPROVED

REJECTED - SEE REMARKS BY Stu Giller

DATE 10/28/2022





NO SCALE	
----------	--

SECTION CORNER: T2N-R12E / G-4

DESCRIPTION: FOUND REMONUMENTATION CAP IN BOX. COORDINATES: N=404460.35 E=13482873.33

STATION: 401+45.63 OFFSET: 5309.80 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N64°W 66.20' PK NAIL AND TAG IN SOUTH SIDE OF LIGHT POLE
2. N71°E 58.63' PK NAIL AND TAG IN NORTH SIDE OF UTILITY
POLEELMER

3. N60°E 18.23' NORTHWEST CORNER OF CURB INLET MANHOLE 4. S46°W 120.20' TO TOP CENTER NUT OF HYDRANT

SECTION CORNER: T3N-R12E / E-12

DESCRIPTION: FOUND REMONUMENTATION CAP ONE FOOT BELOW GRADE

COORDINATES: N=415588.52 E=13477072.83

STATION: 514+93.69 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI WITNESSES:

1. N71°E 57.88' REMON NAIL AND TAG IN NORTHWEST SIDE OF UTILITY POLE

2. S46°E 164.23' TO TOP CENTER NUT OF HYDRANT

3. S39°W 68.81' REMON NAIL AND TAG IN NORTHWEST SIDE OF UTILITY POLE

4. N09°W 163.12' REMON NAIL AND TAG IN NORTHWEST SIDE OF 12" SPRUCE



APPROVED ☐
APPROVED AS NOTED ☐
ACCEPTED ☑
ACCEPTED AS NOTED ☐

AMEND AND RESUBMIT REJECTED - SEE REMARKS

eviewed only for general conformance with the project requirements indicated in Contract countents and/or for consistency with the project design concept. This review does not relieve the intractor from responsibility for errors or omissions in designs for which the Contract or is sponsible. Contractor is responsible for compliance with all requirements of the Contract countents and for the safe and successful construction of the work. This review does not consider emeals, methods, techniques, sequences, fabrication processes, and operations of construction, safety precautions or programs incidental thereto, which are the sole responsibility of the hosting of the contractor.

By



DATE 10/28/2022

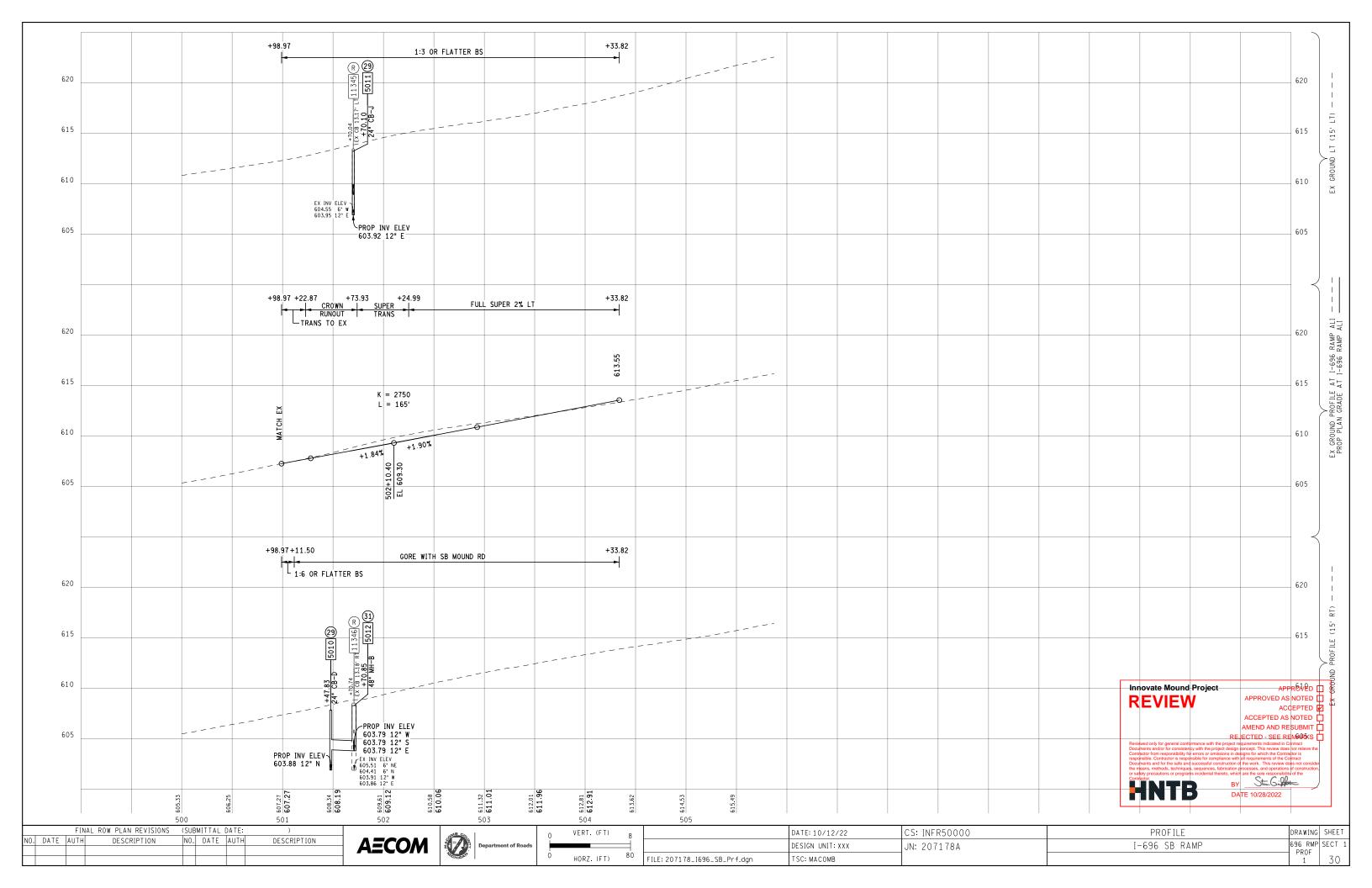
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

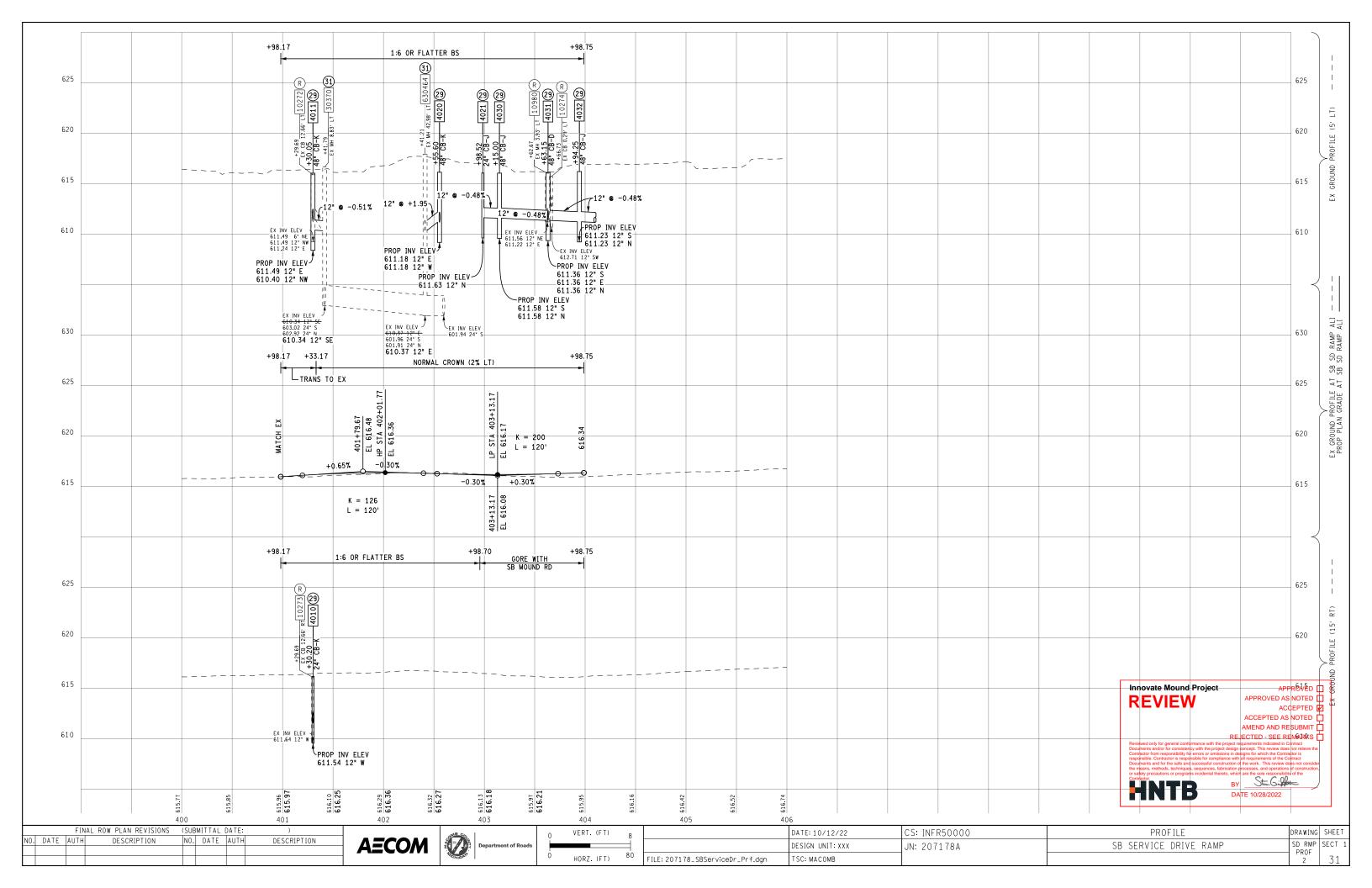
NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION Surveying solutions,

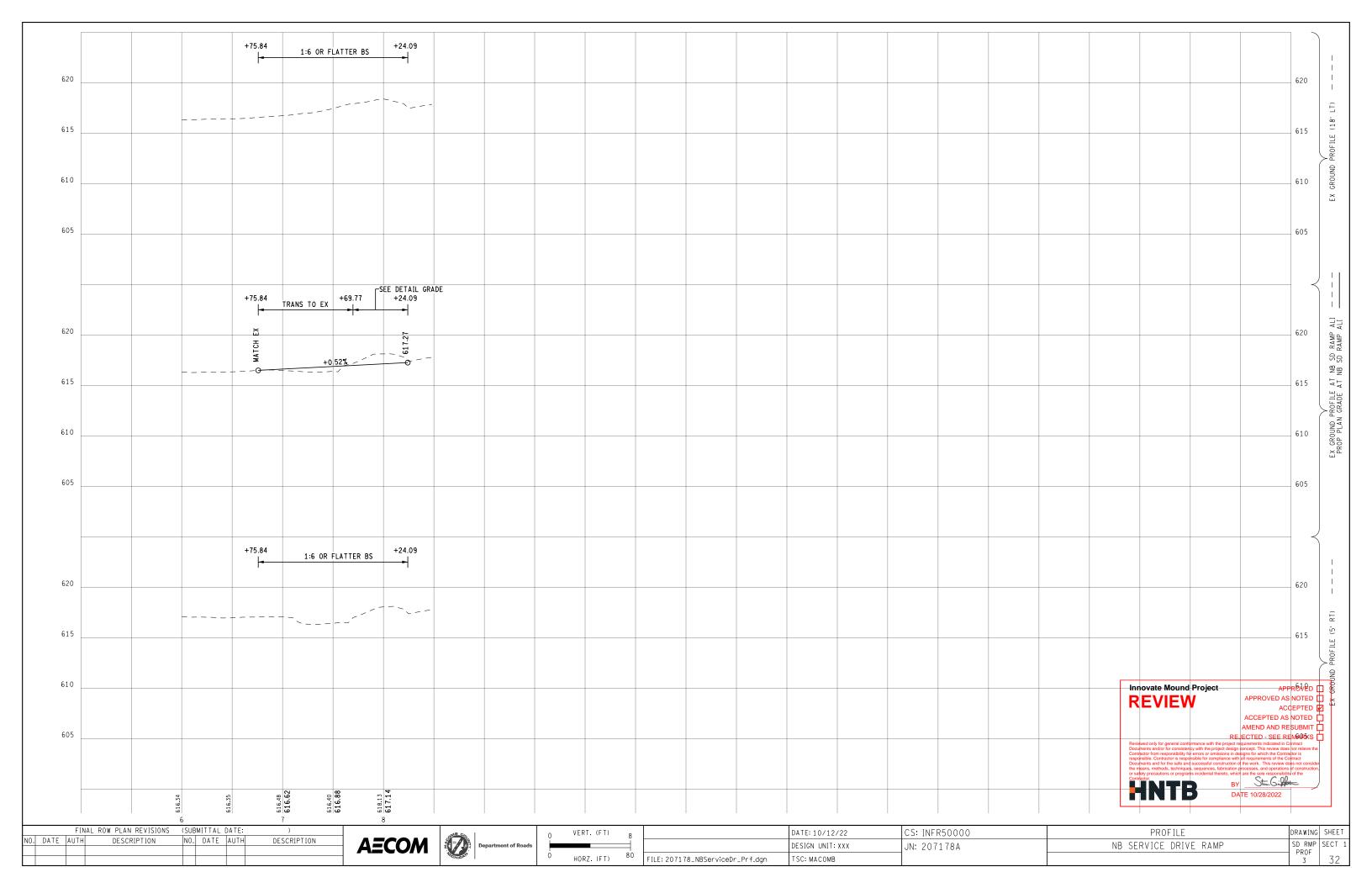


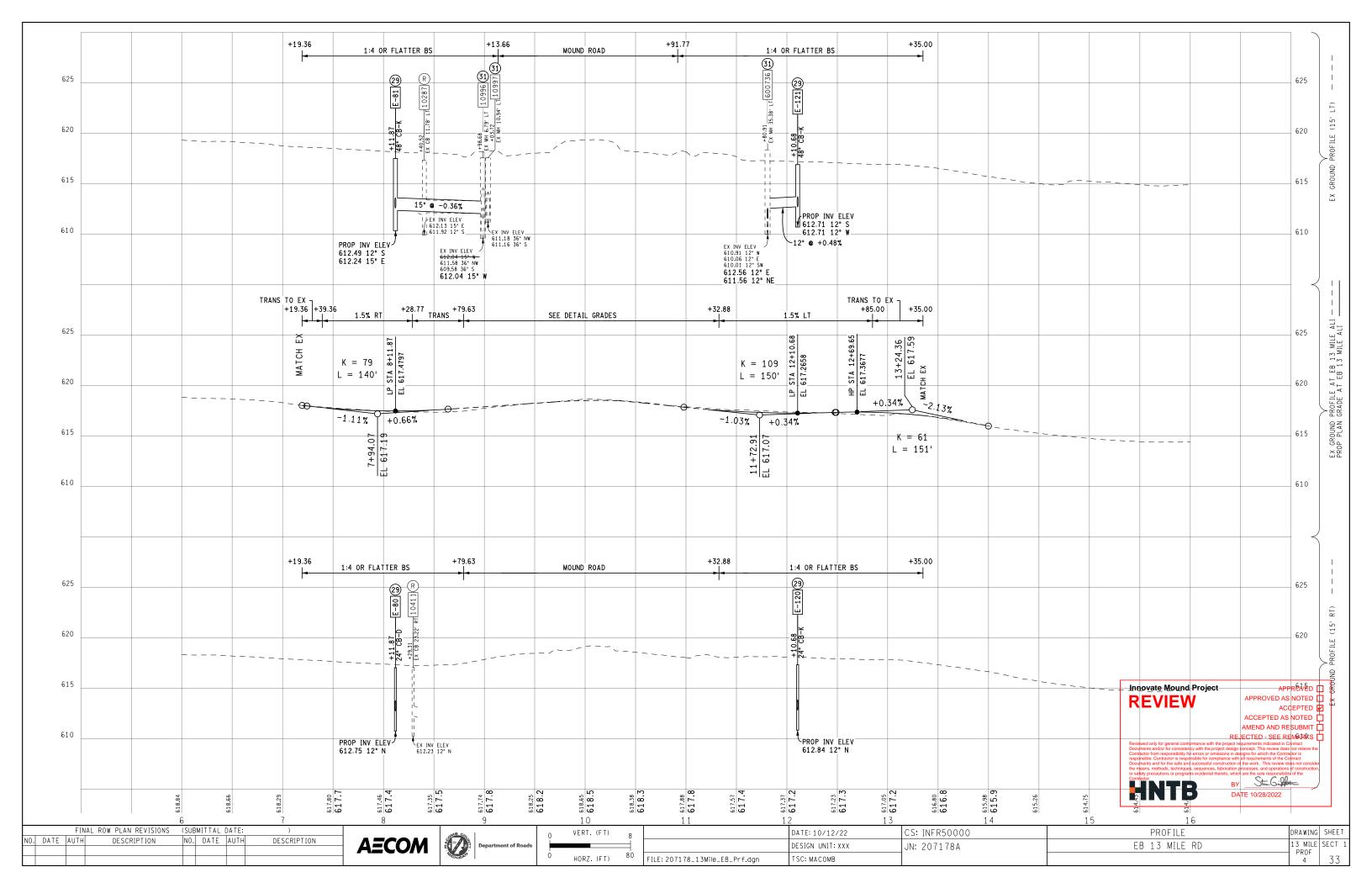
NO	SCALE	

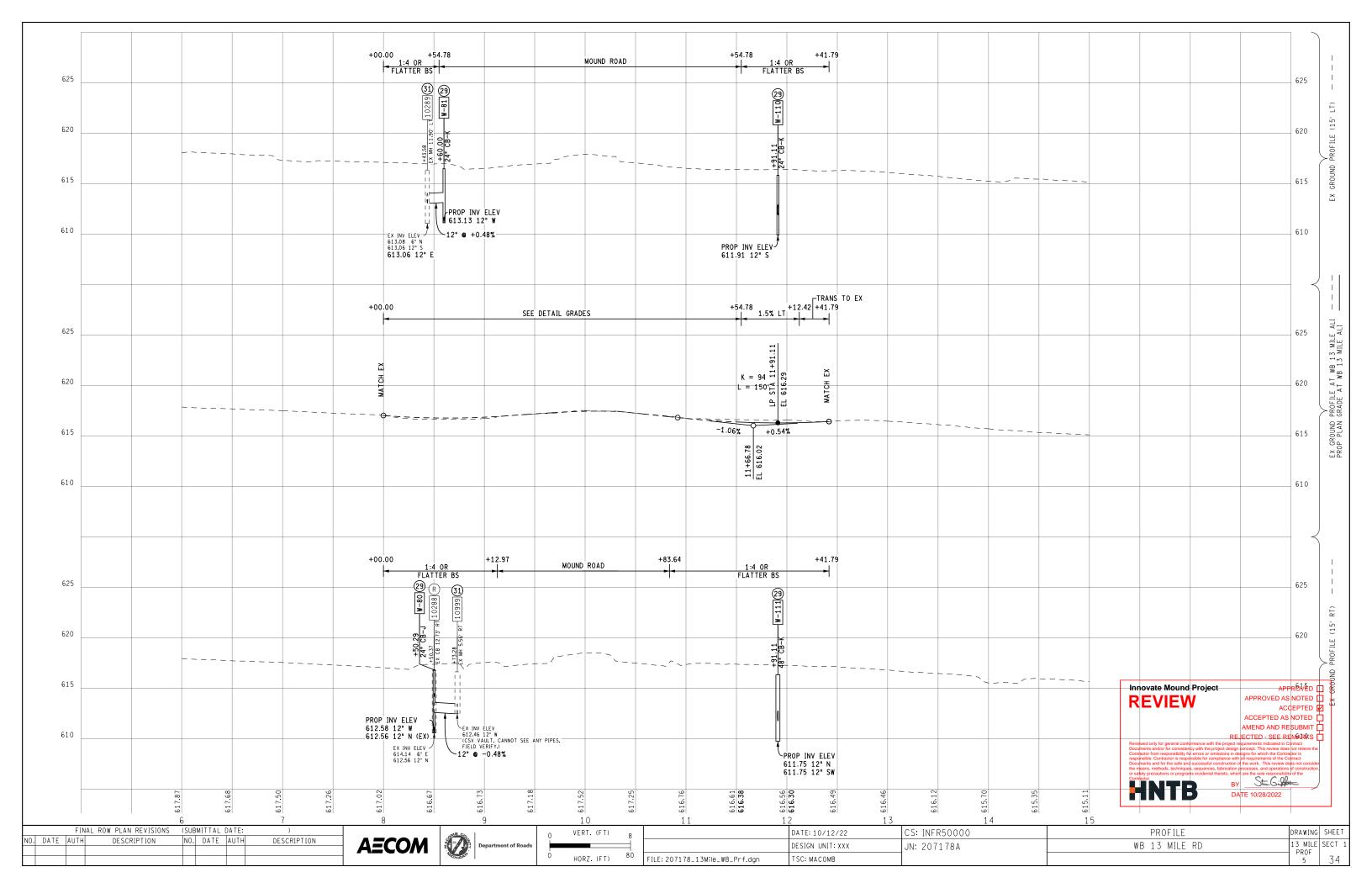
	DATE: 10/12/22	CS: INFR50000	SURVEY INFORMATION SHEET	DRAWING	5
	DESIGN UNIT: XXX	JN: 207178A		MOUND	5
FILE: 207178_Survey_Info_Sheet.doc	TSC: MACOMB			SURVEY 008	



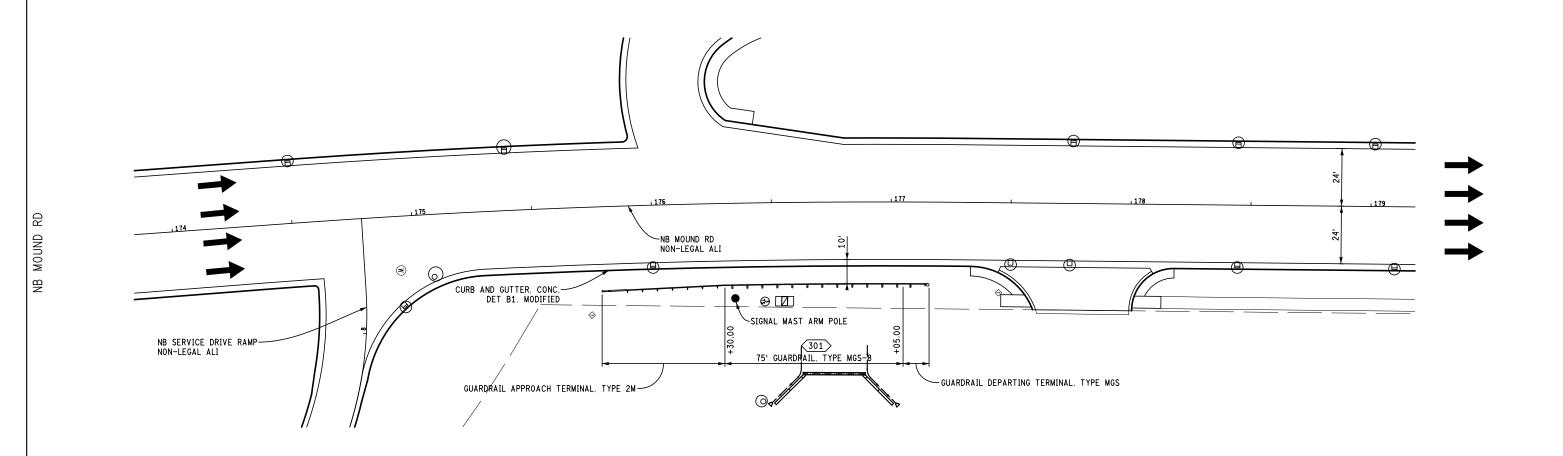












Innovate Mound Project **REVIEW**

APPROVED APPROVED APPROVED AS NOTED ACCEPTED AS NOTED ACCEPTED AS NOTED AMEND AND RESUBMIT REJECTED - SEE REMARKS project requirements indicated in Contract

NB MOUND RD

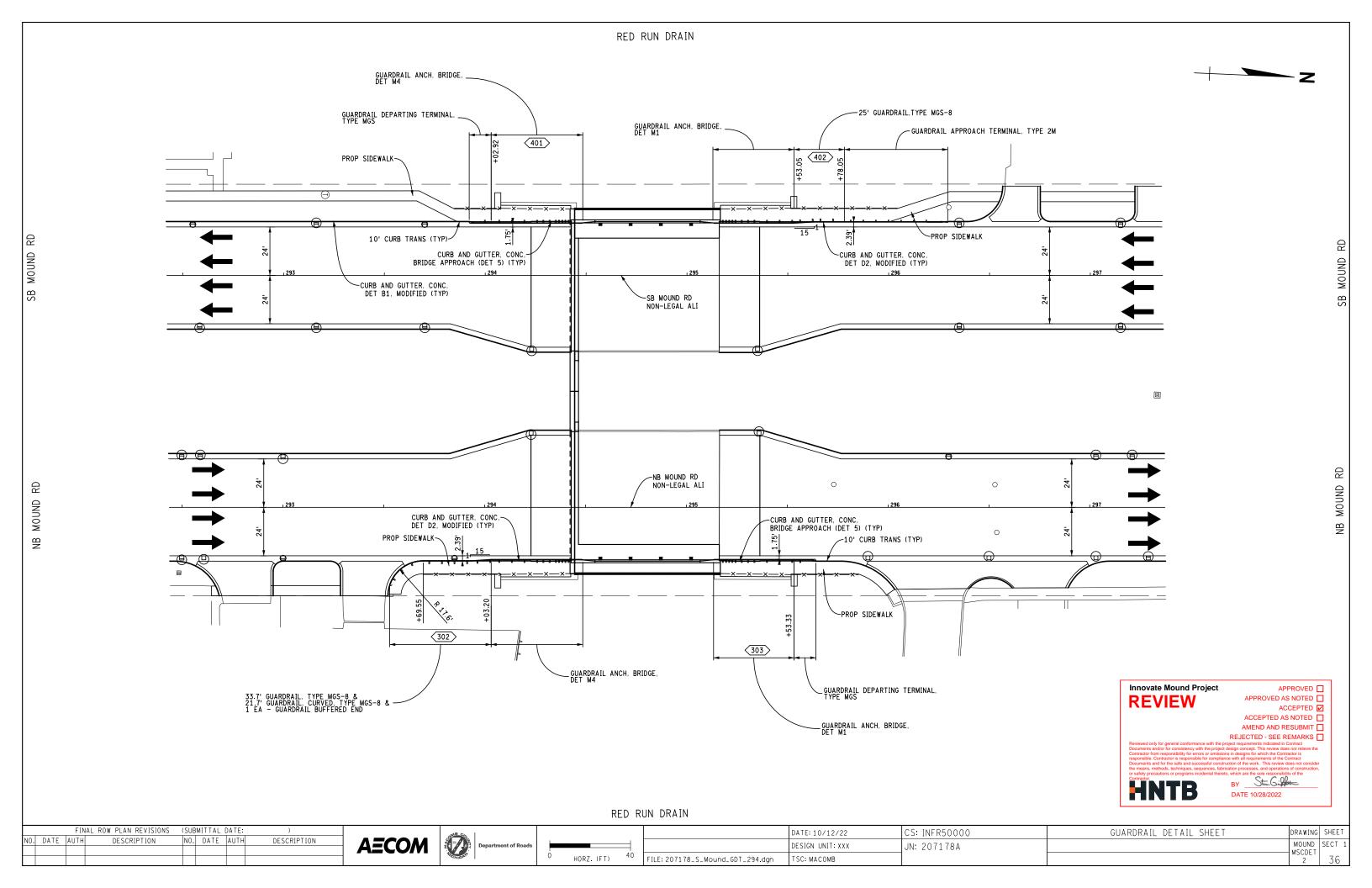
b, which are the sole responsibility of the

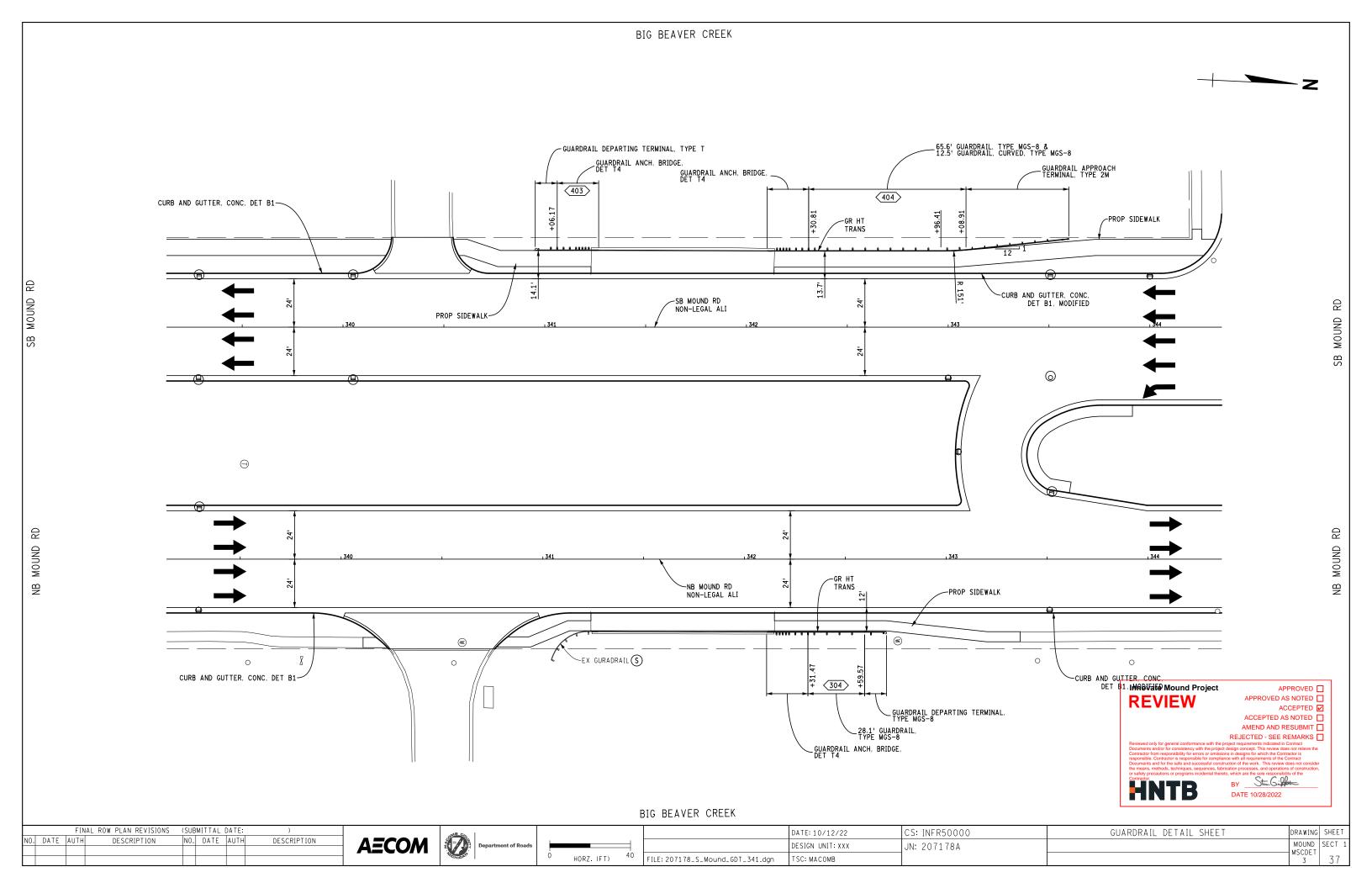
DATE 10/28/2022

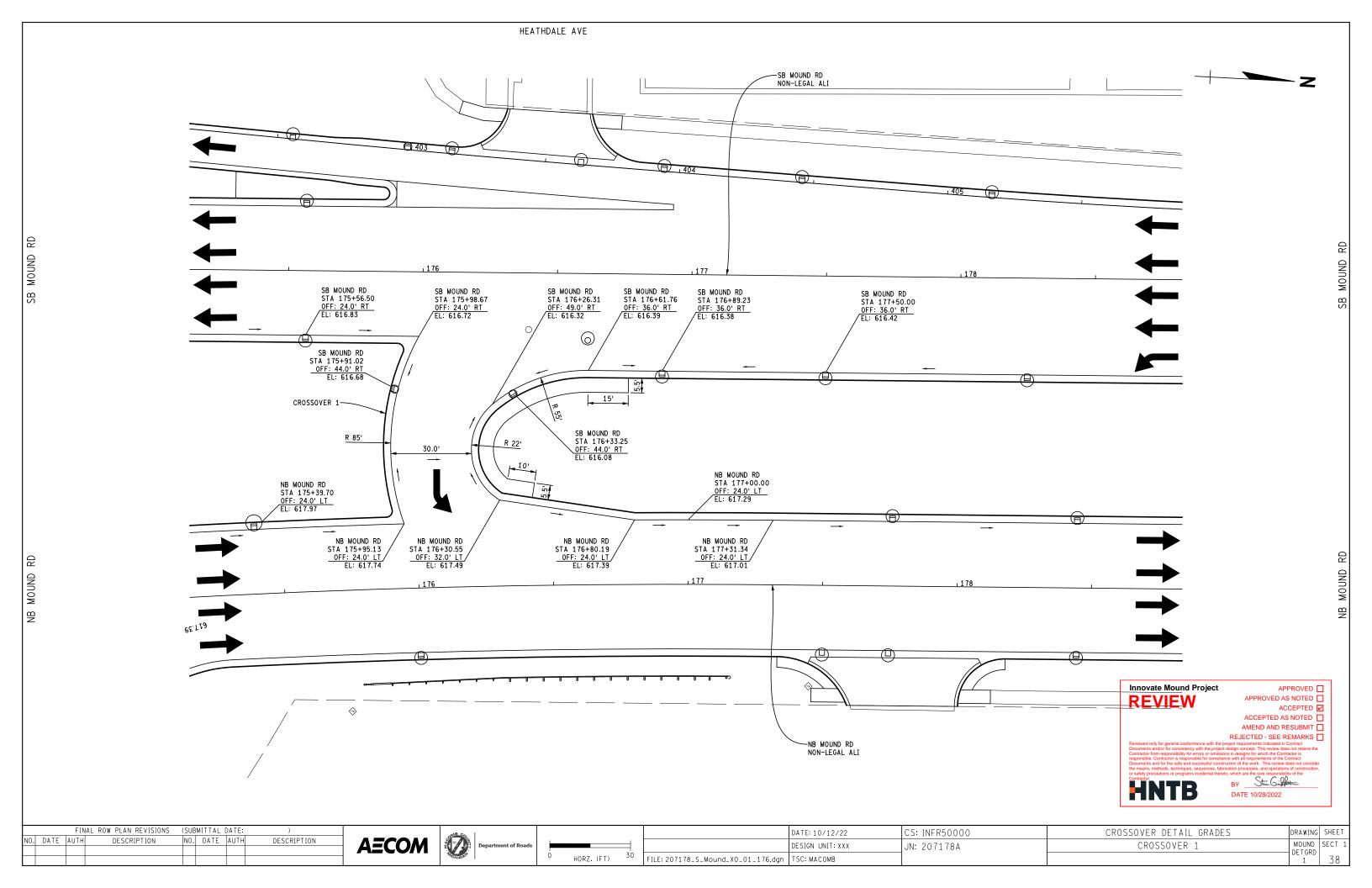
NB SERVICE DRIVE

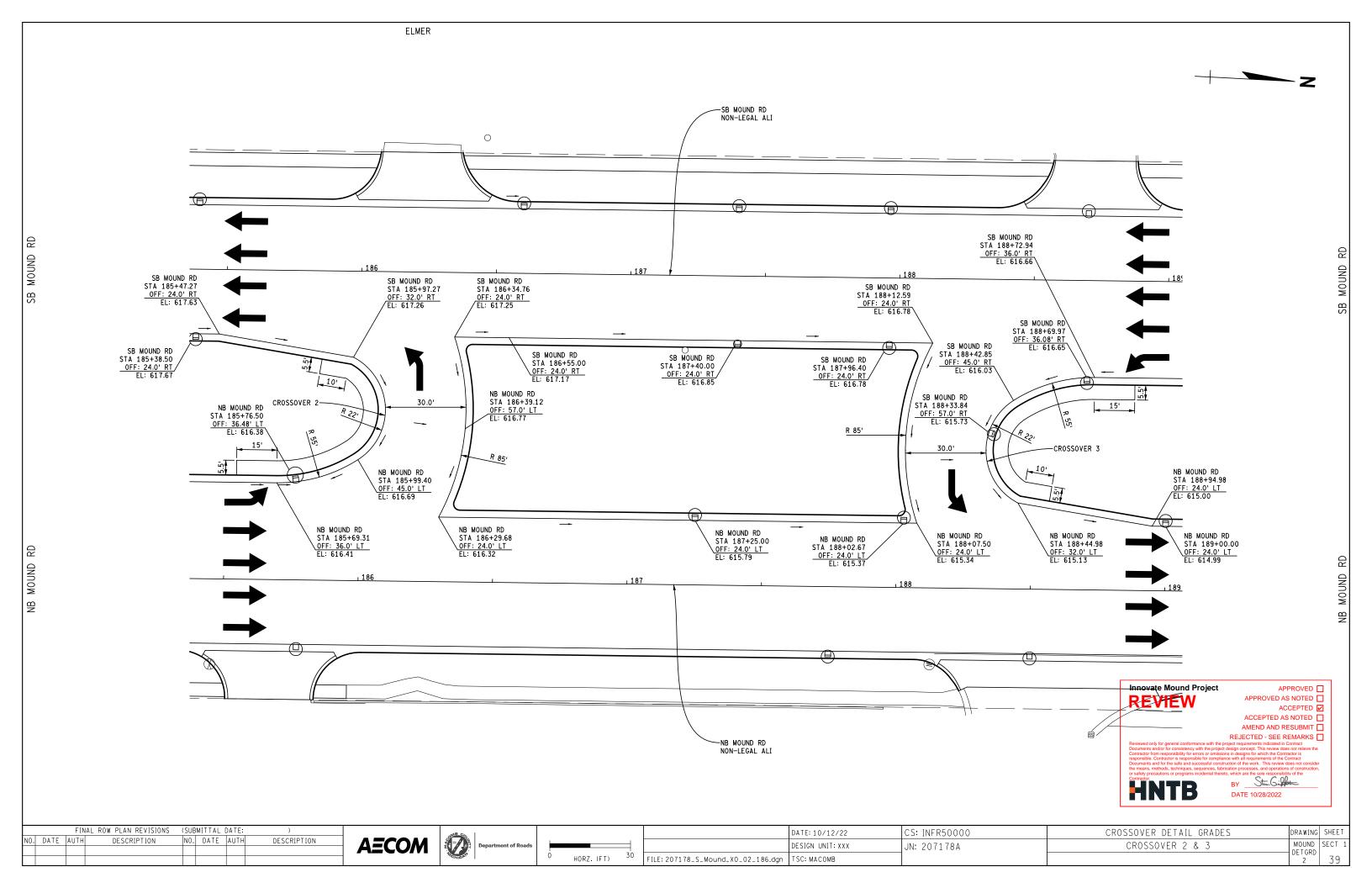
BEAR CREEK

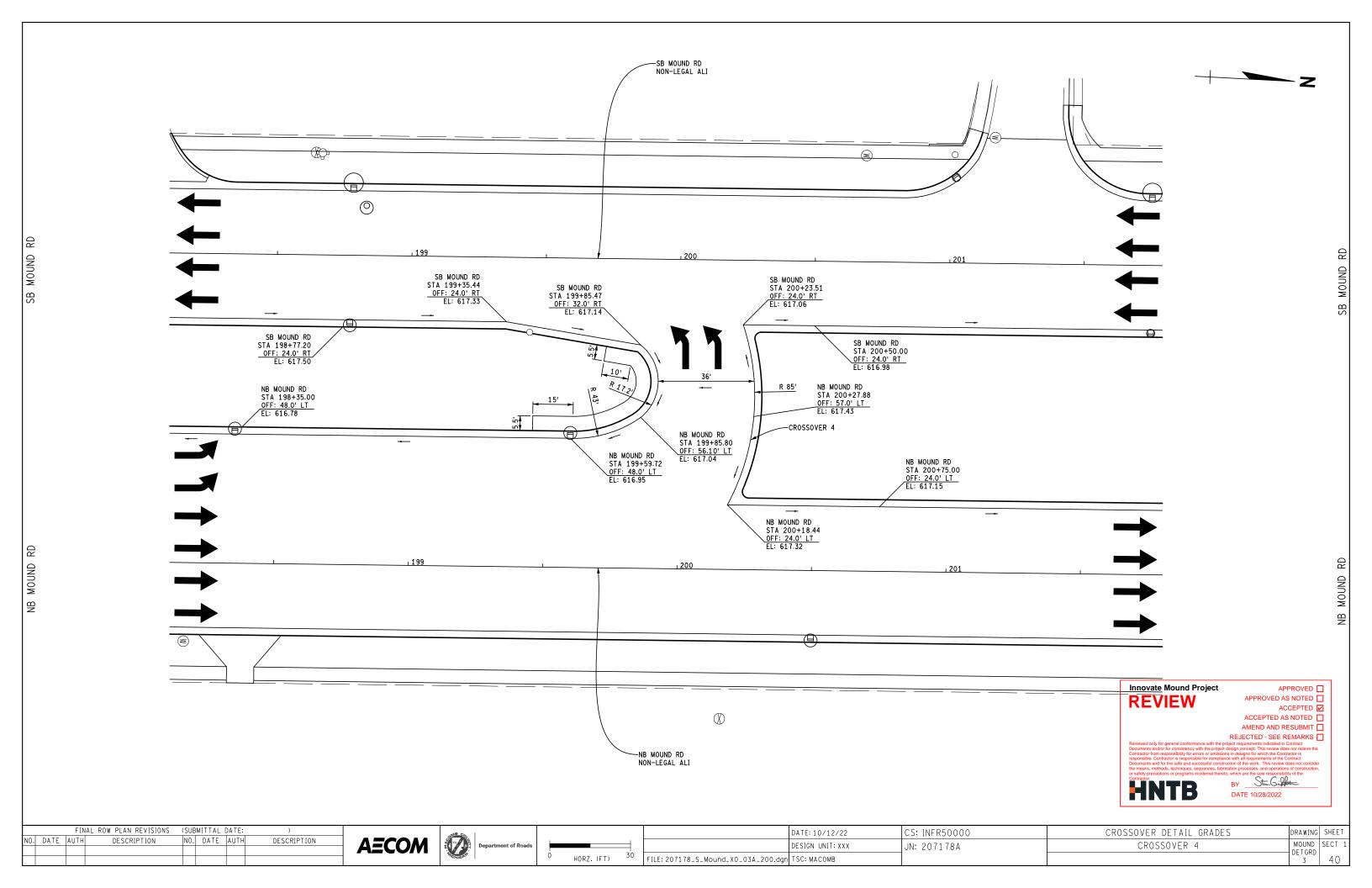
	FINAL ROW PLAN REVISIONS (SU		one co			DATE: 10/12/22	CS: INFR50000	GUARDRAIL DETAIL SHEET	DRAWING SHEET
NO. [ATE AUTH DESCRIPTION NO	D. DATE AUTH DESCRIPTION	AECOM Department of Roads			DESIGN UNIT: XXX	JN: 207178A		MOUND SECT 1
			A LOUIS AND	O HORZ. (FT) 40	FILE: 207178_S_Mound_GDT_176.dgn	TSC: MACOMB			MSCDET 35

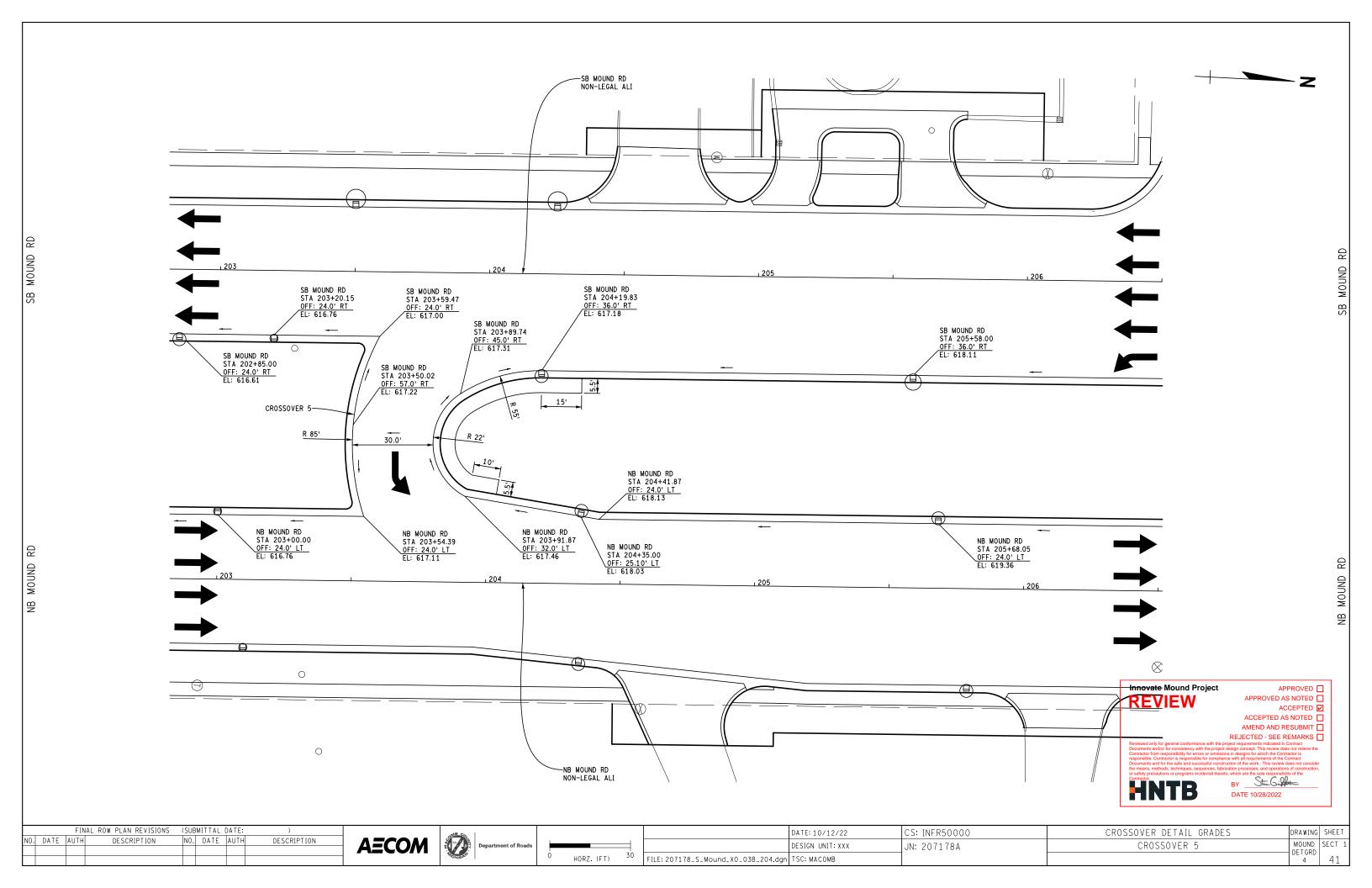


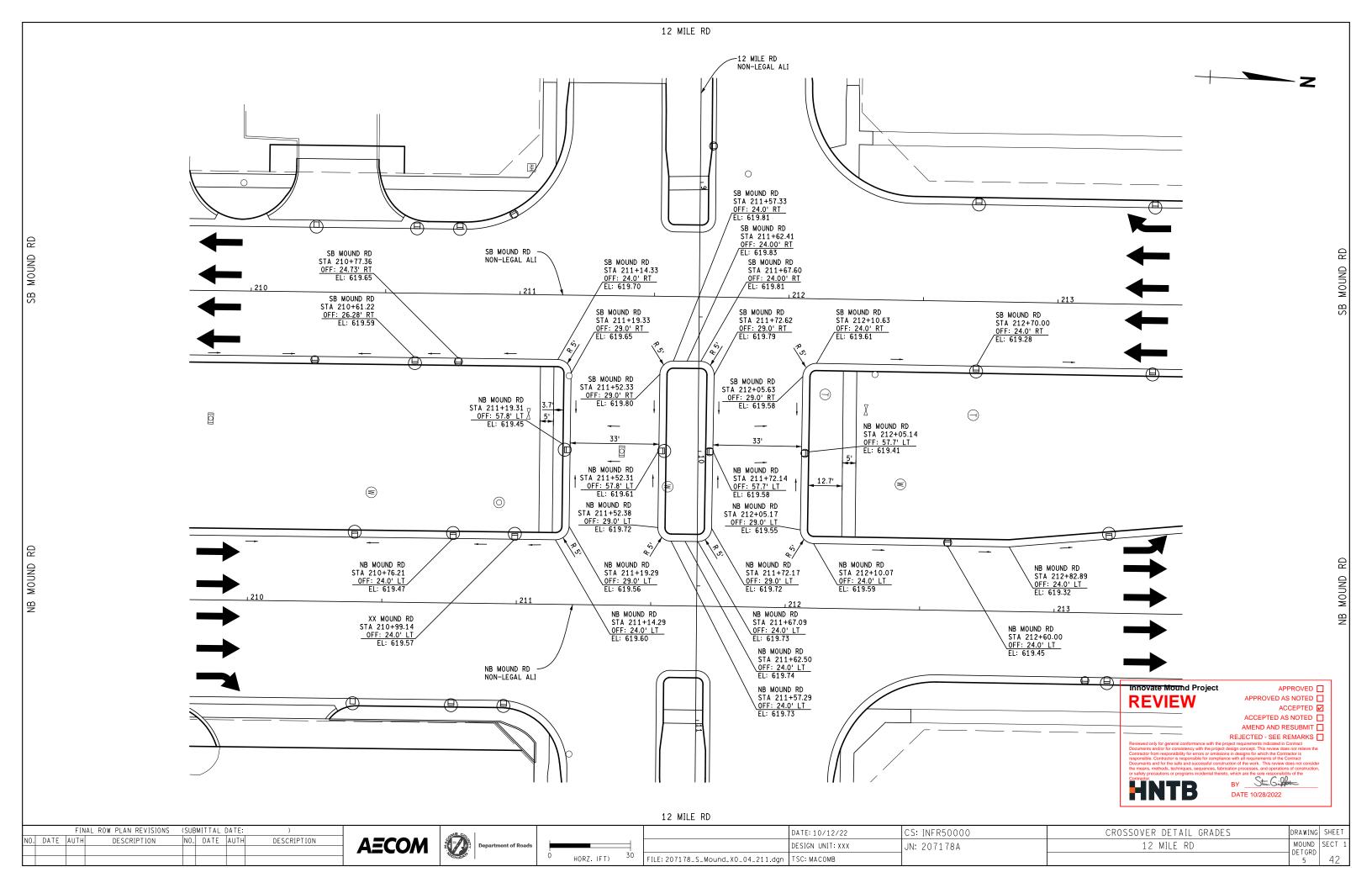


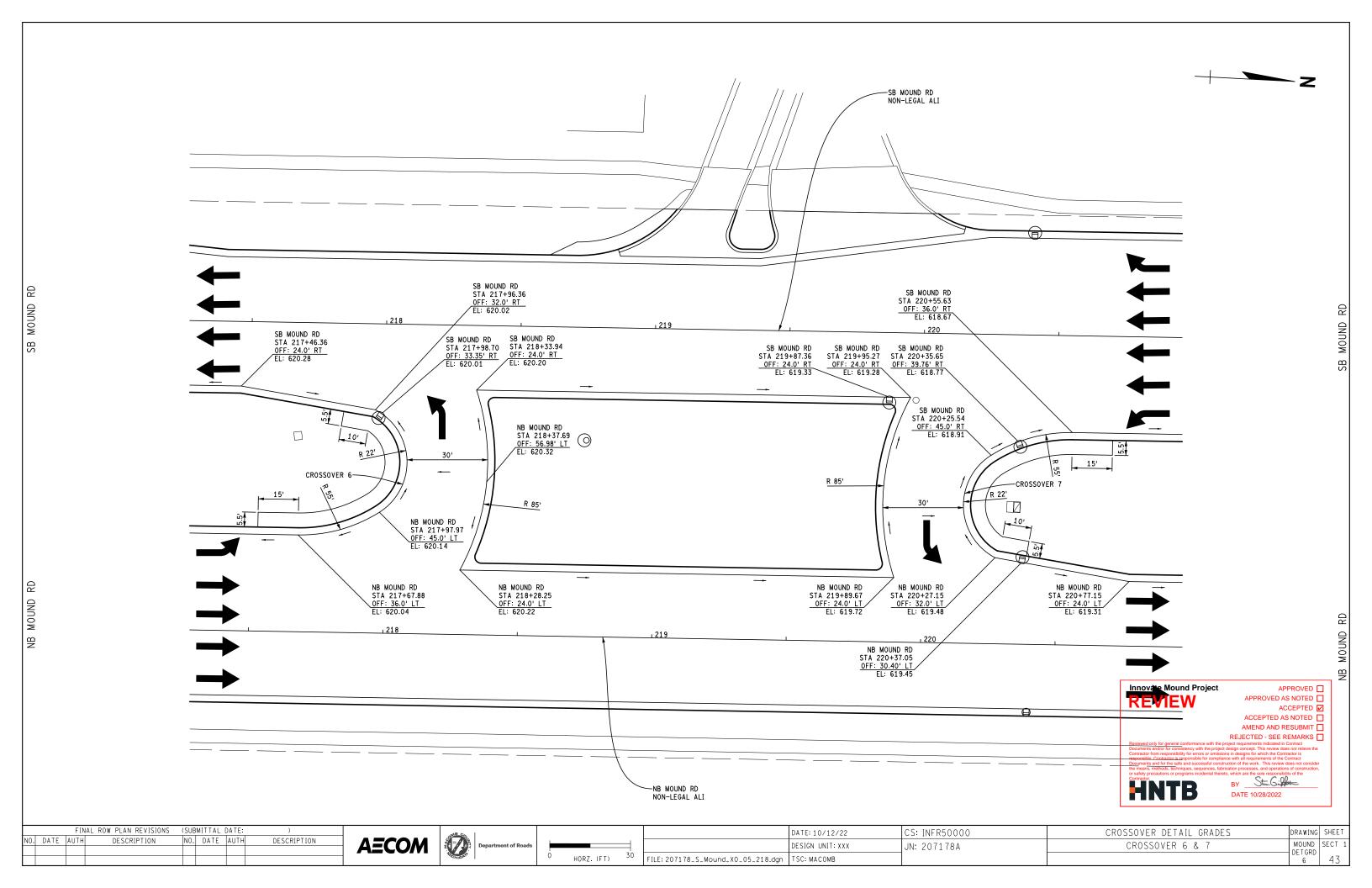


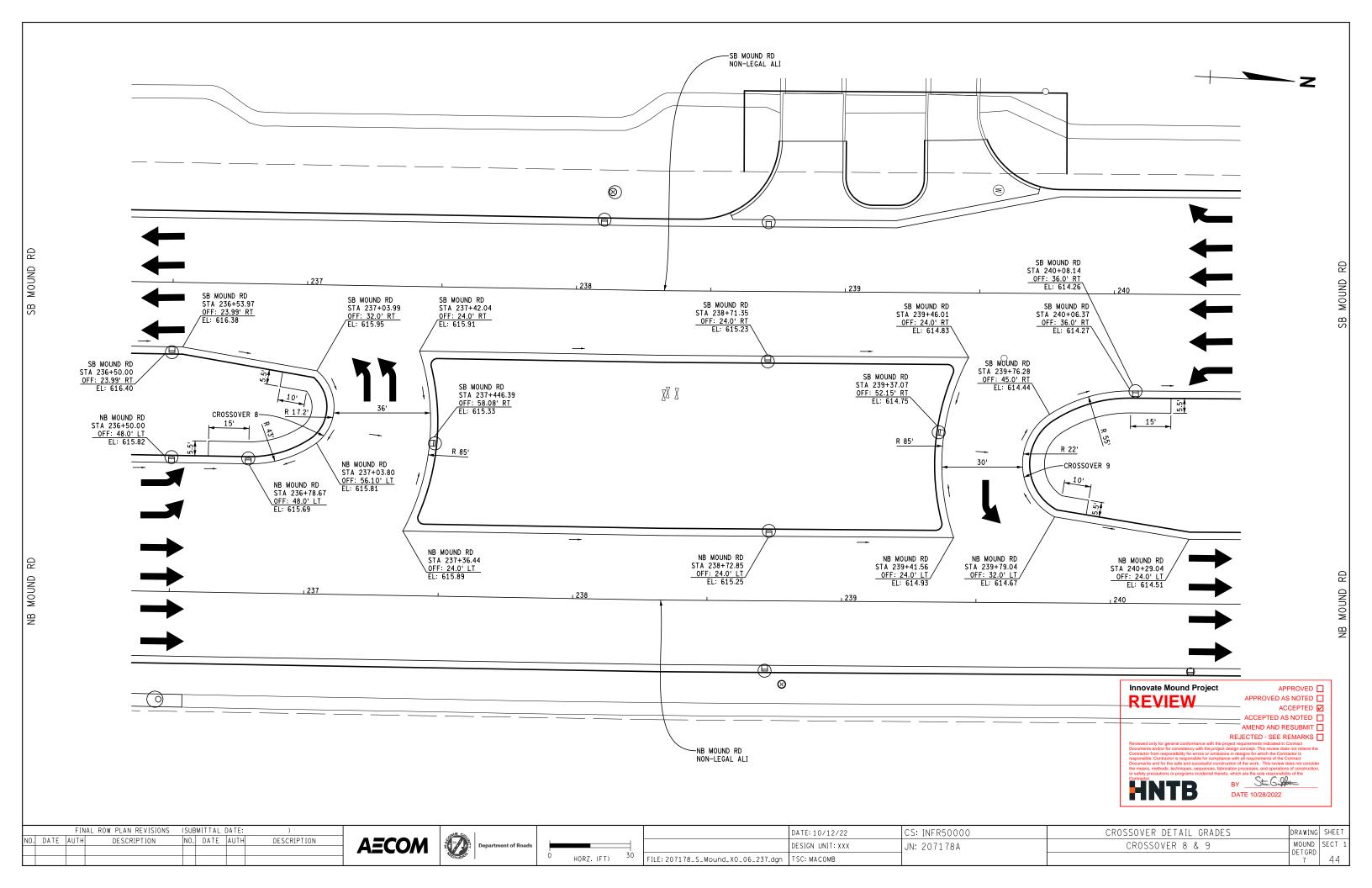


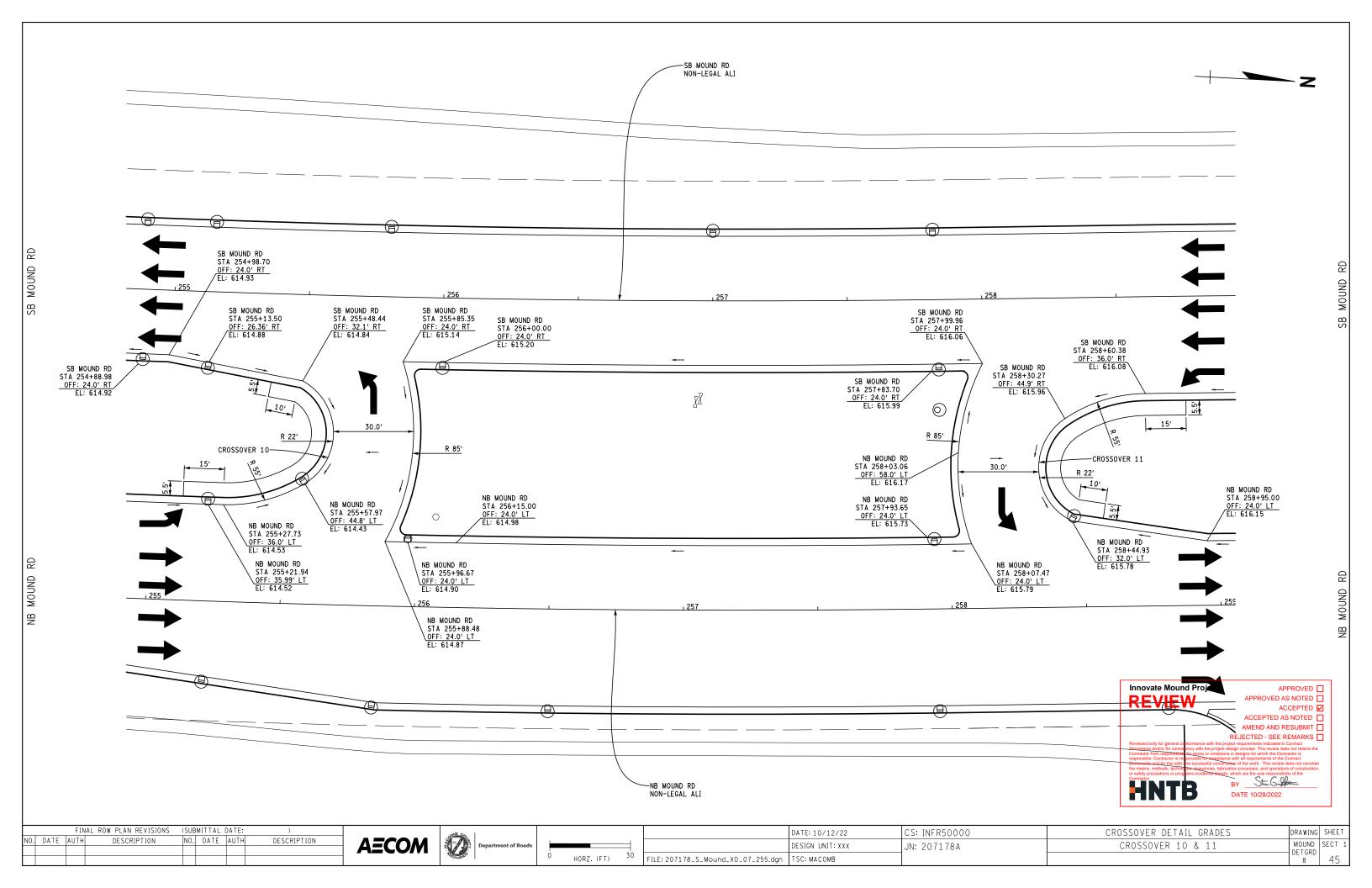


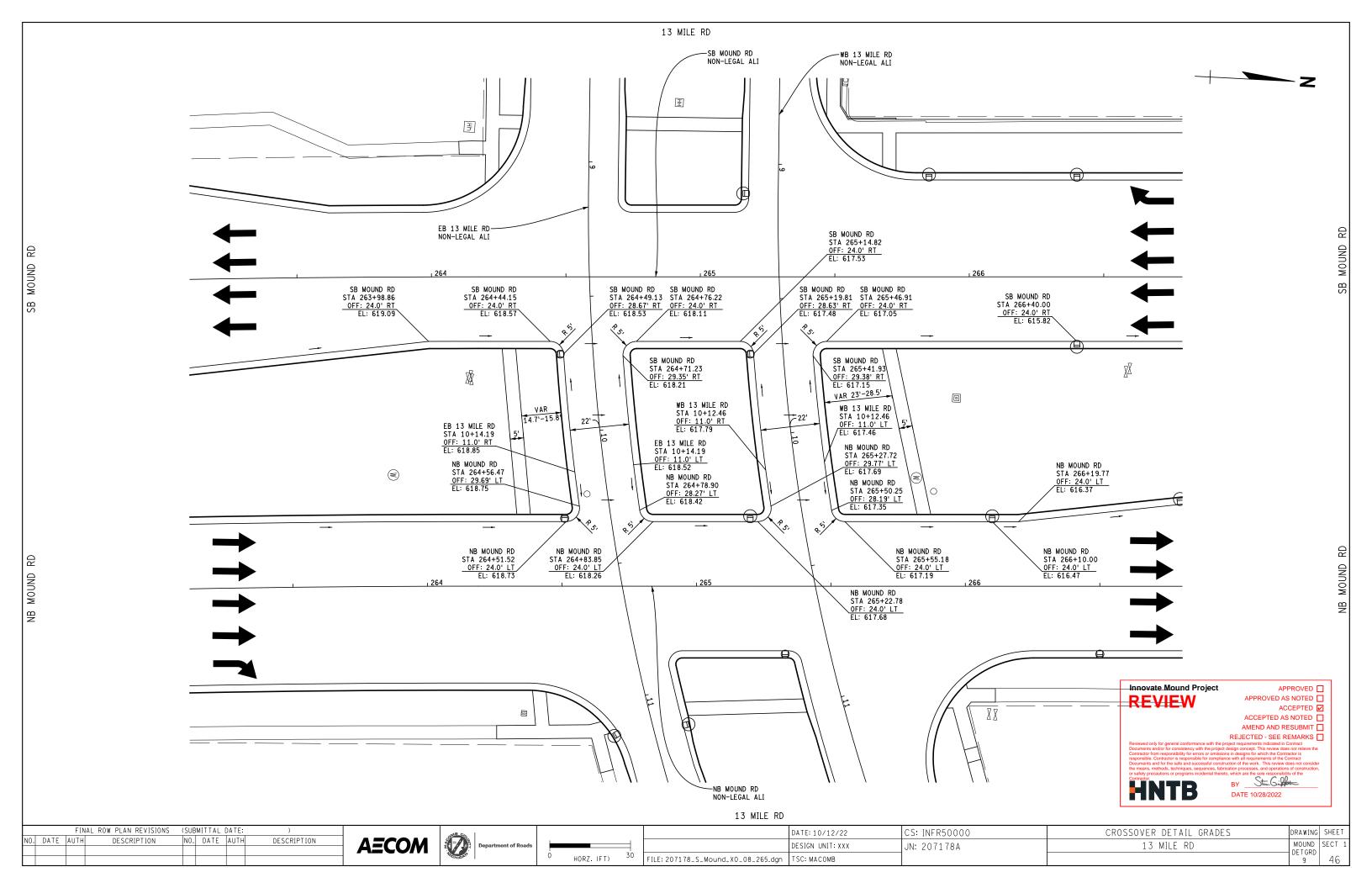


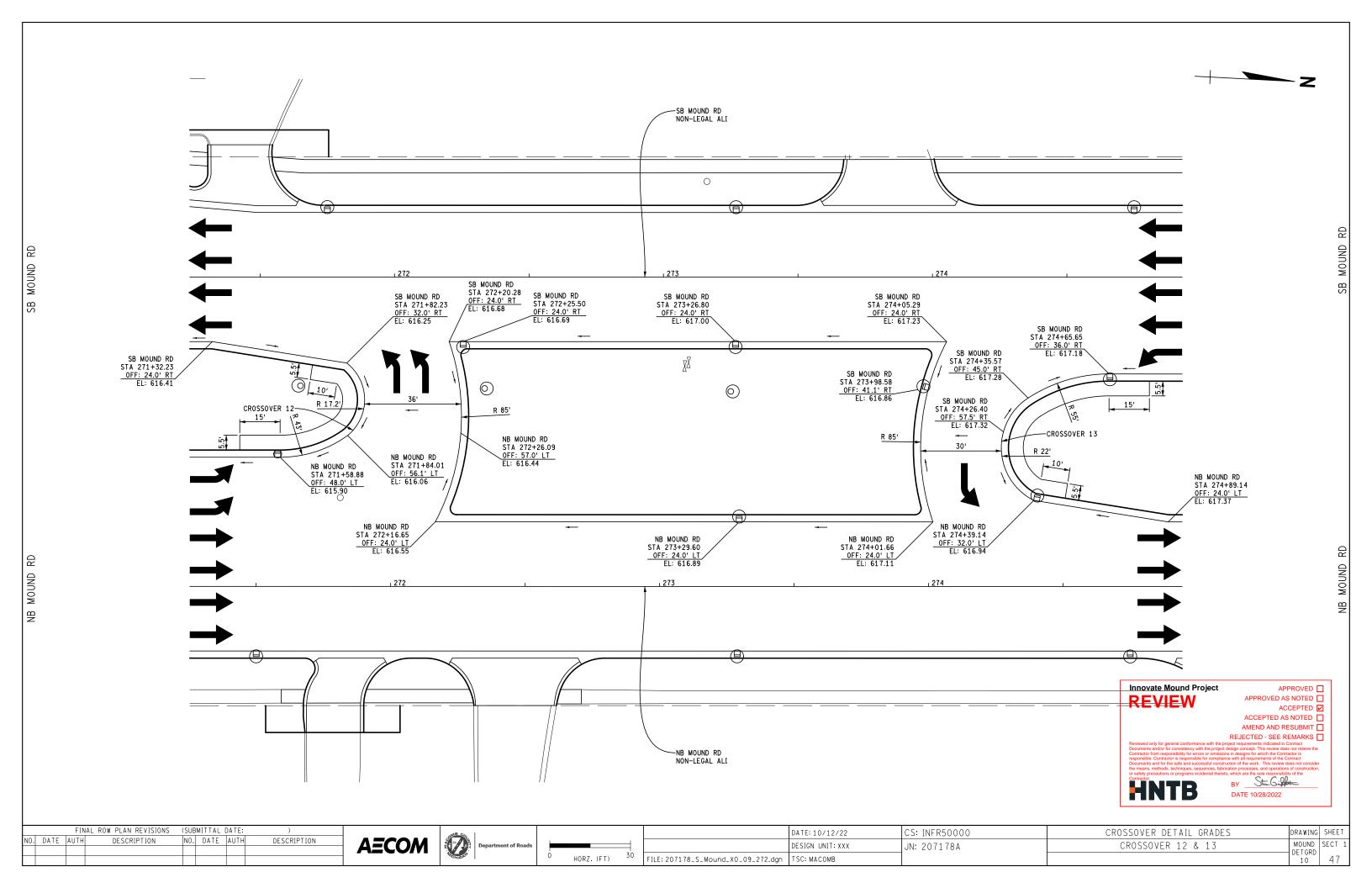


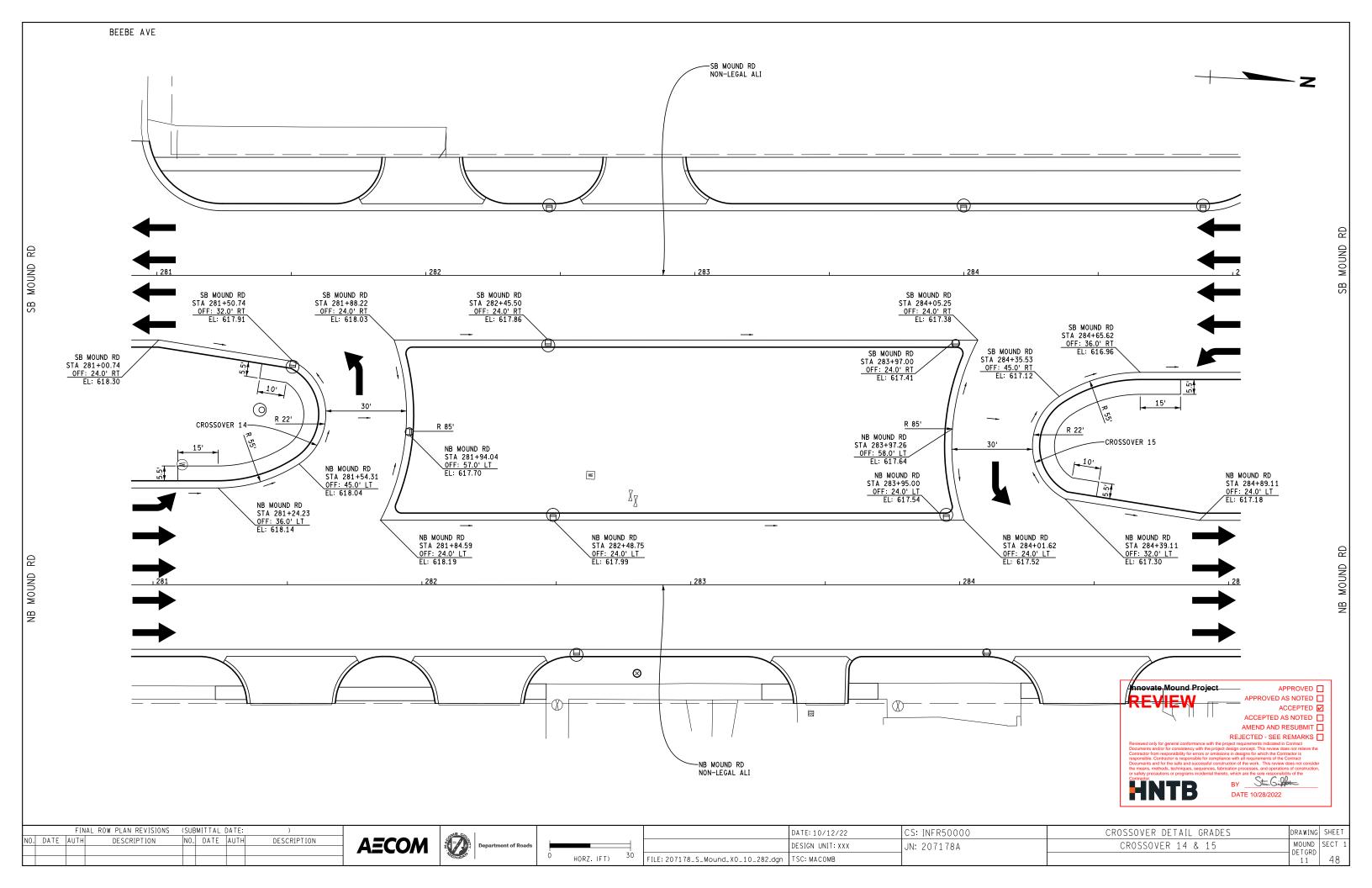


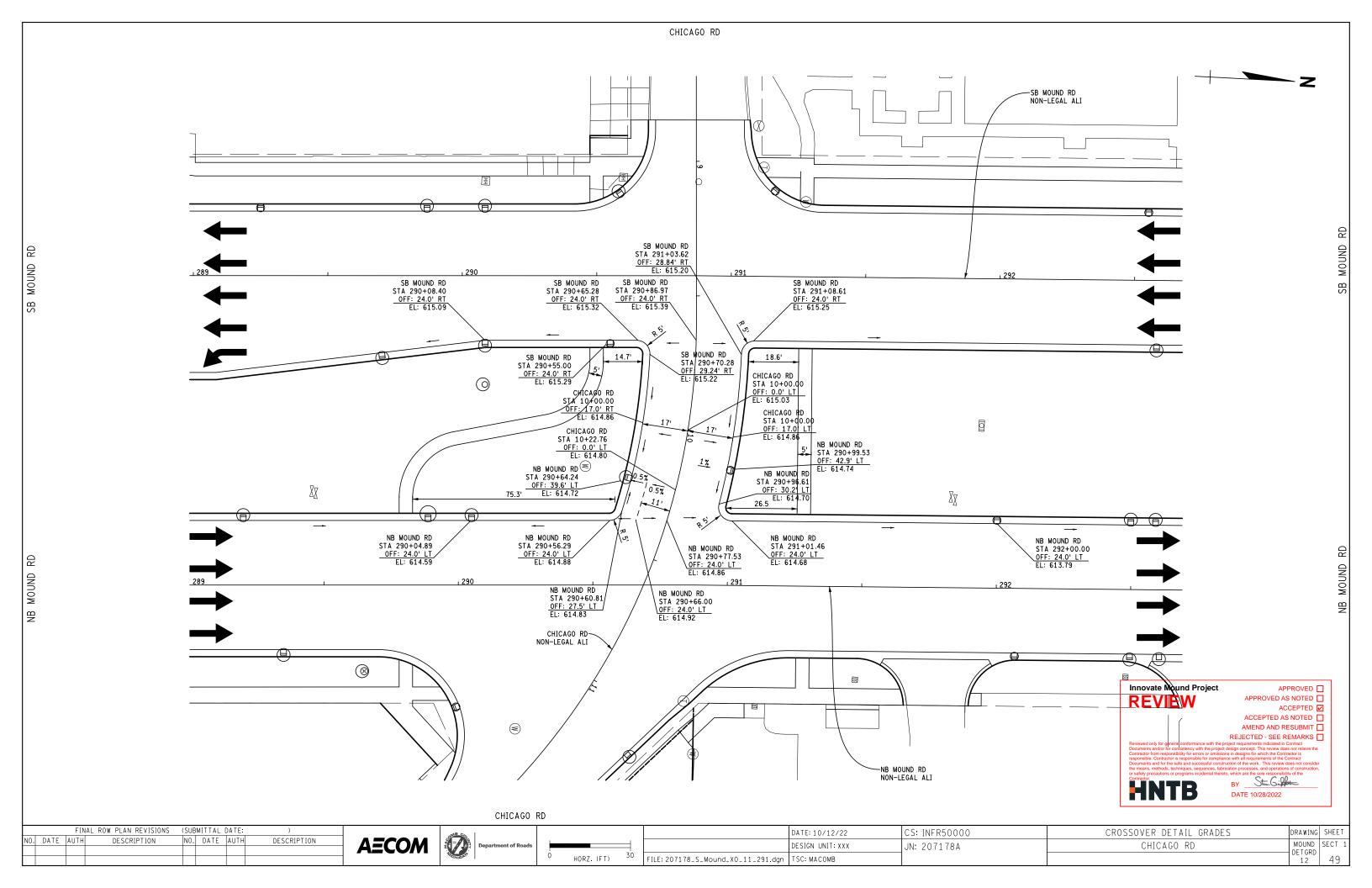


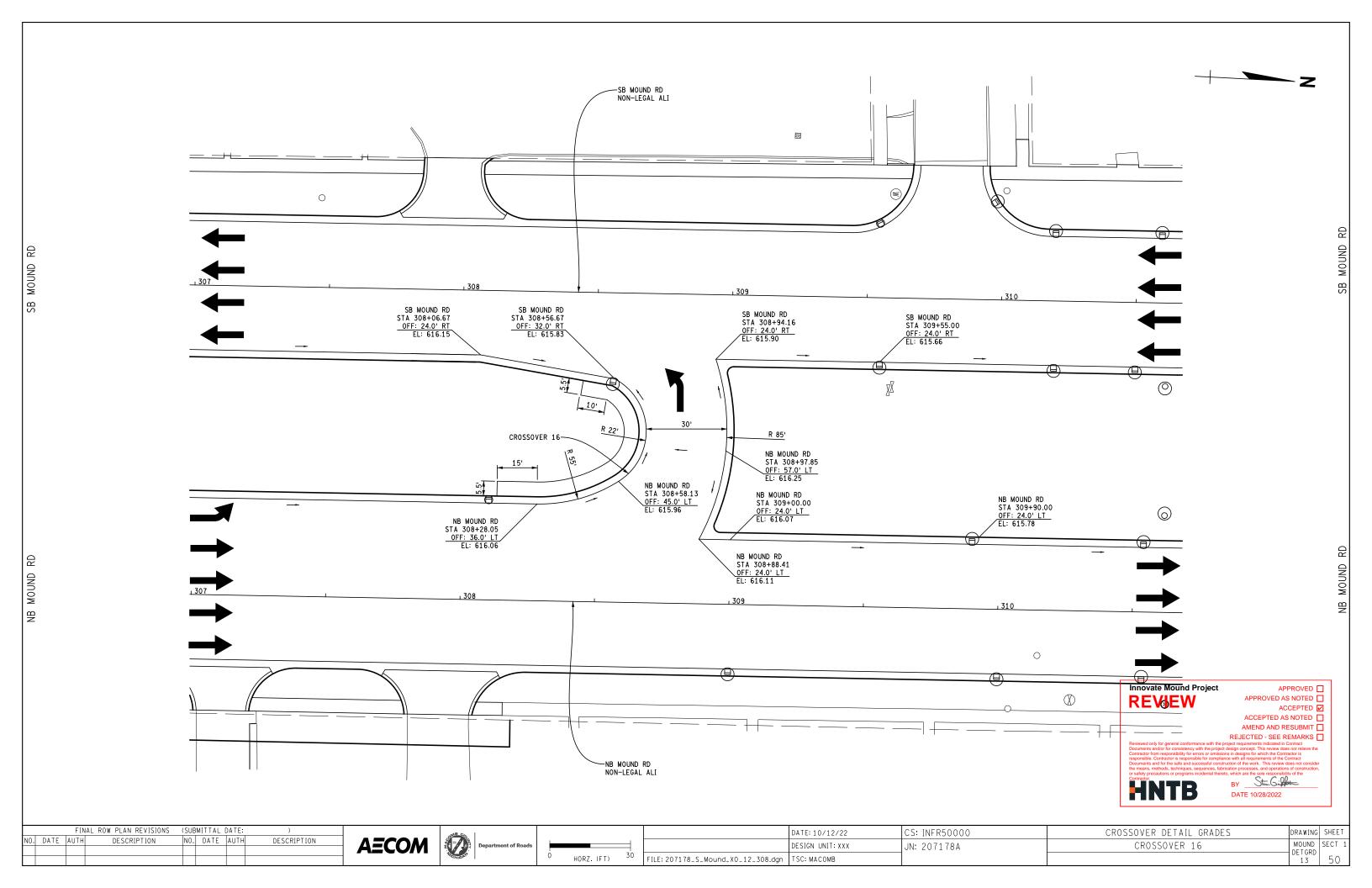


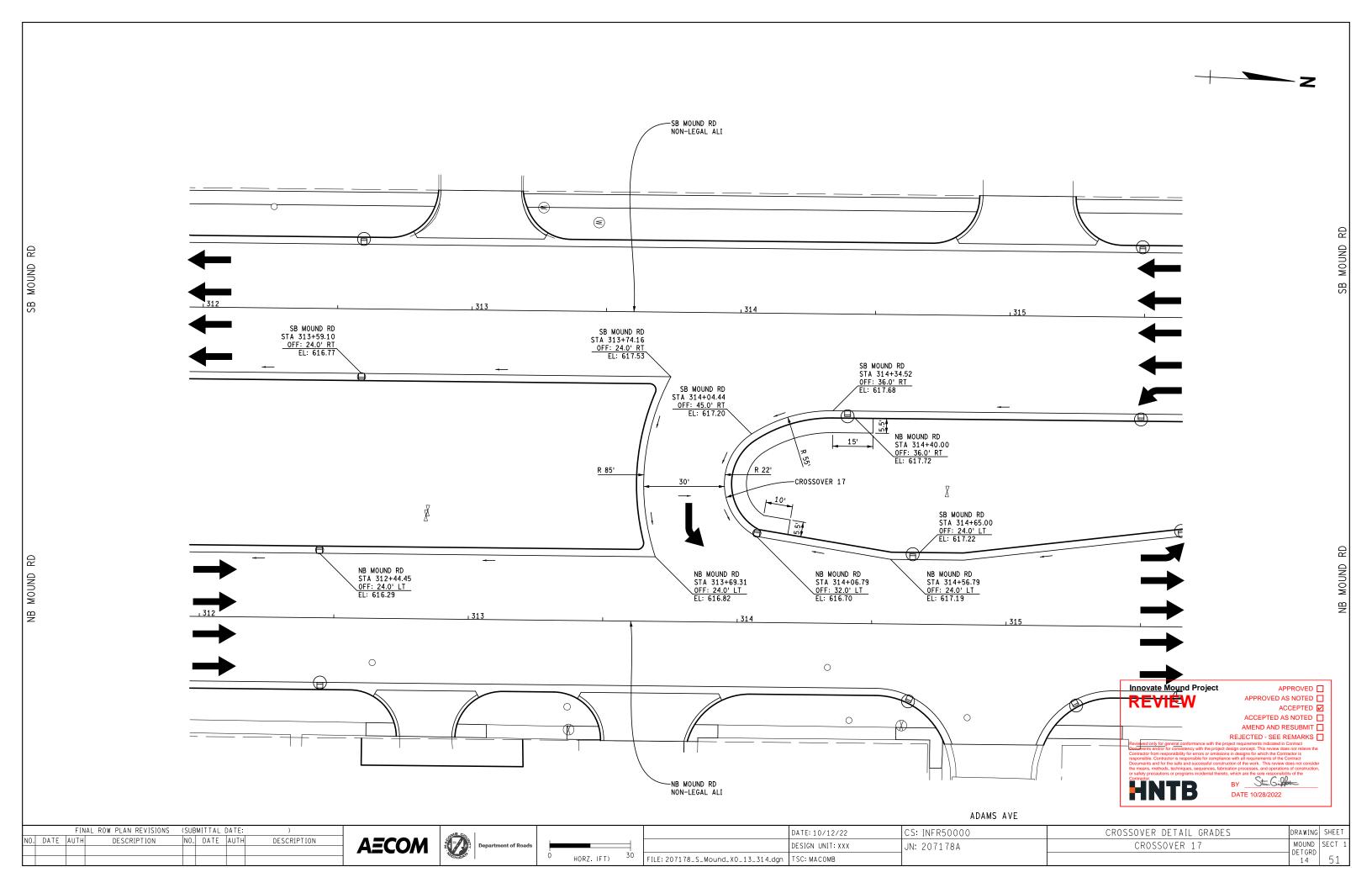


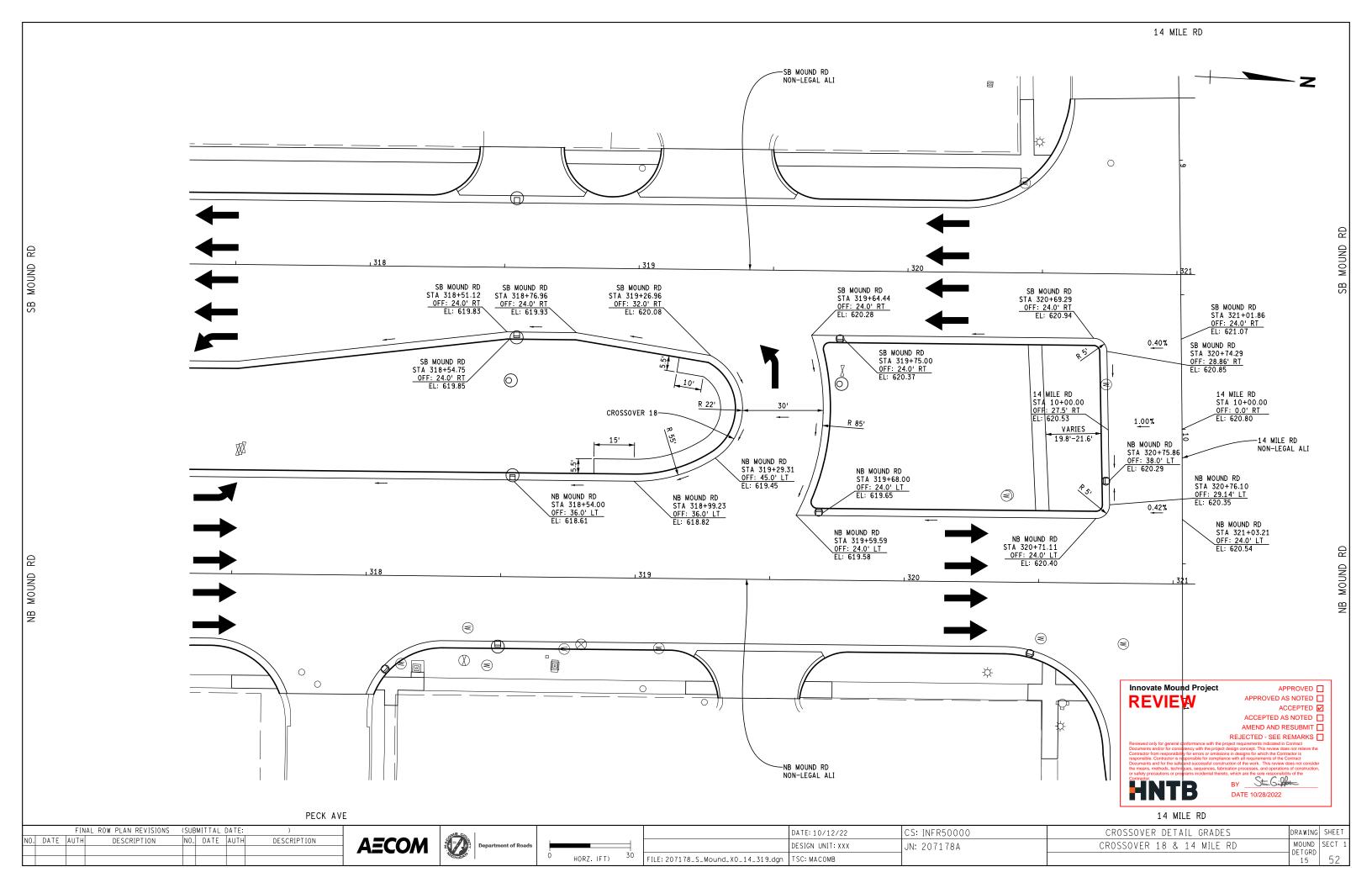


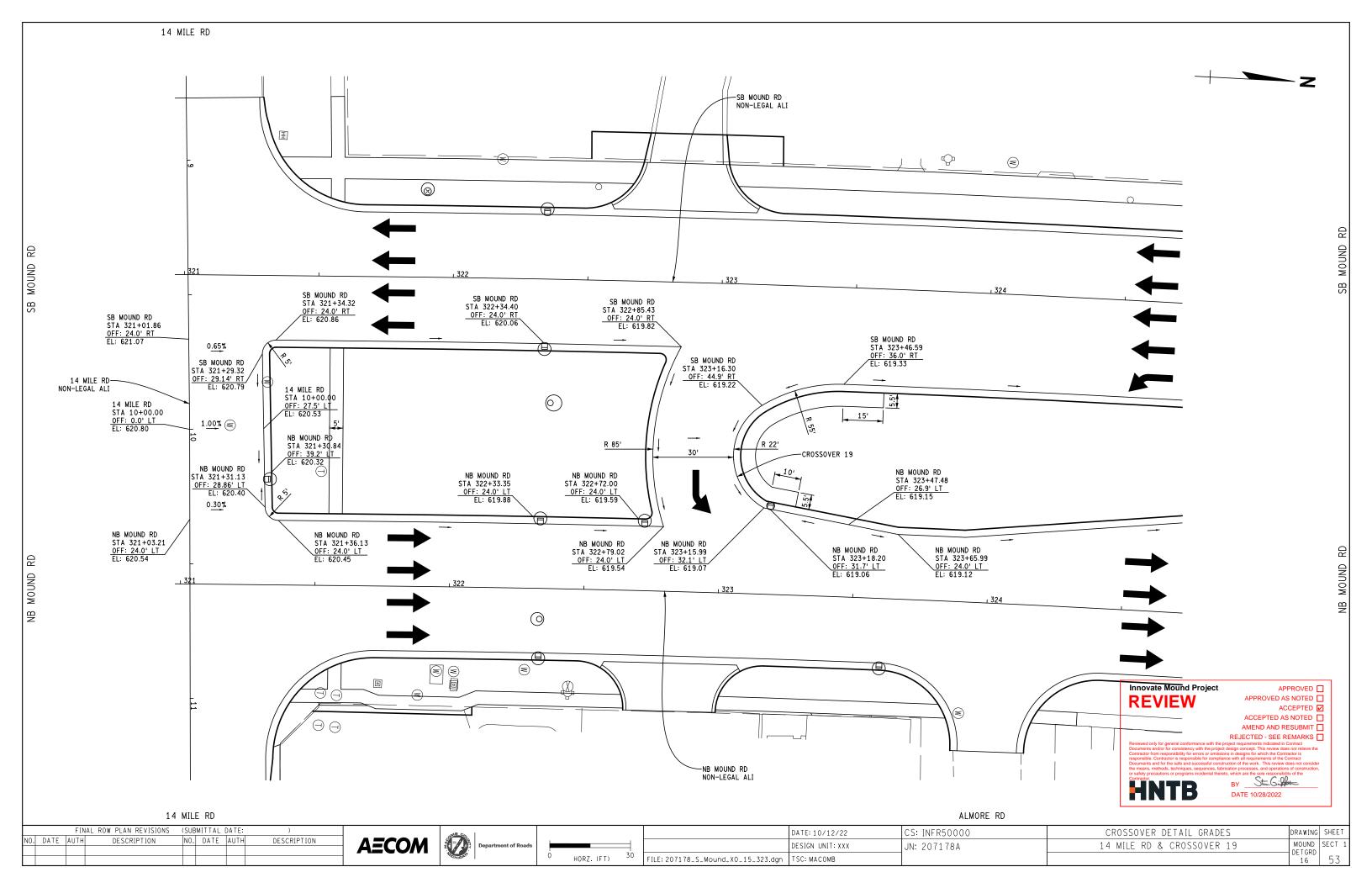


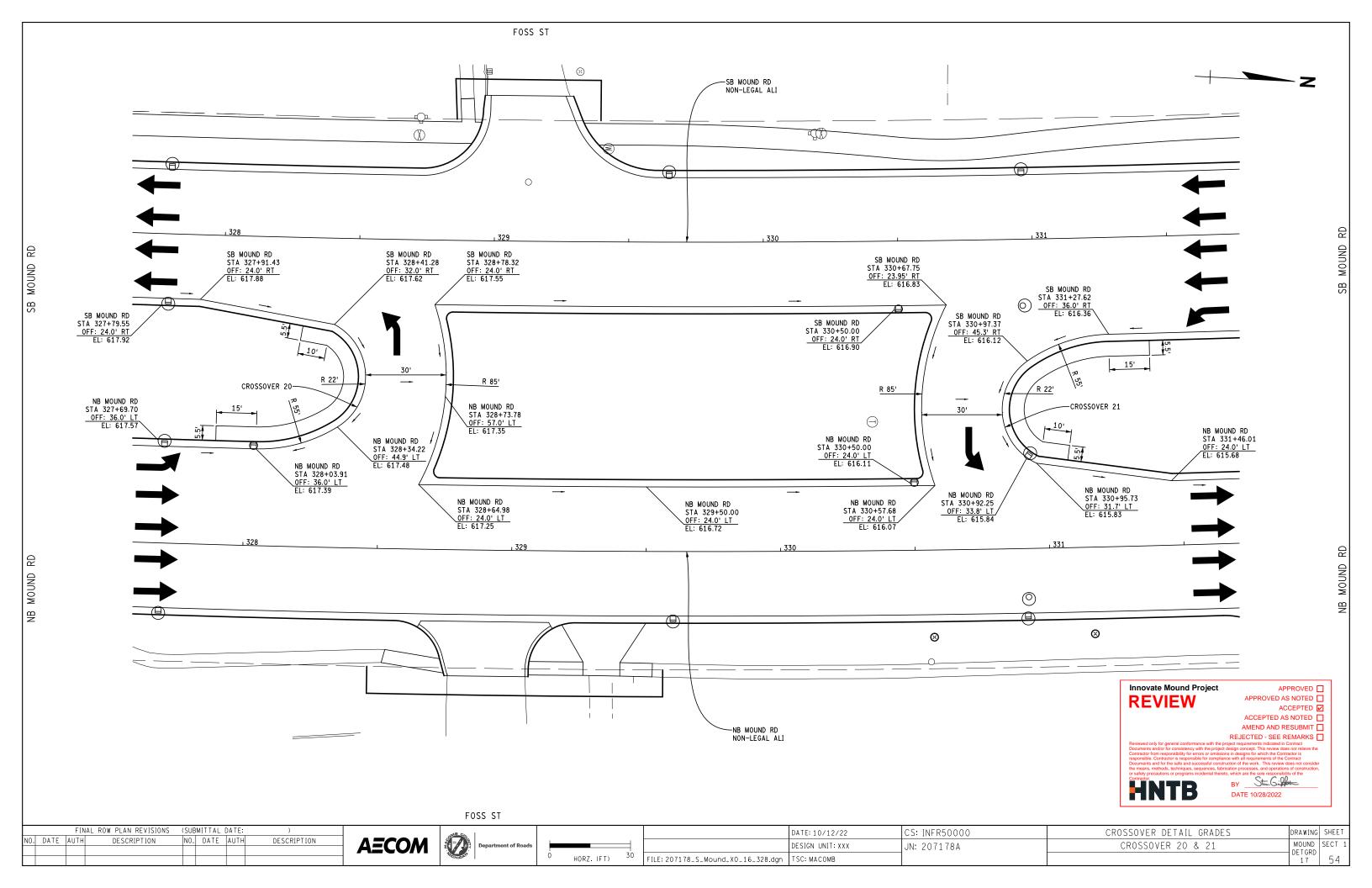


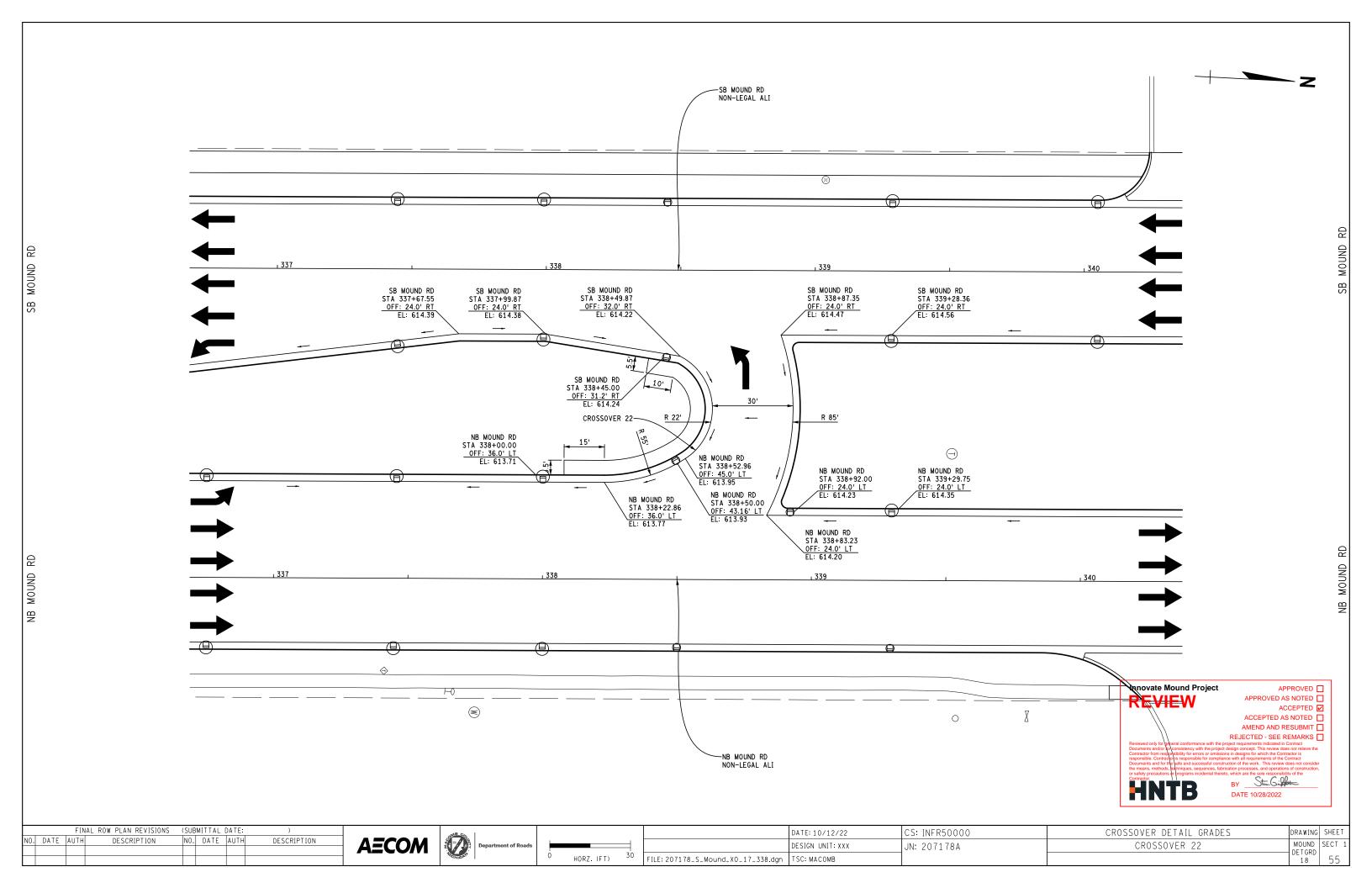


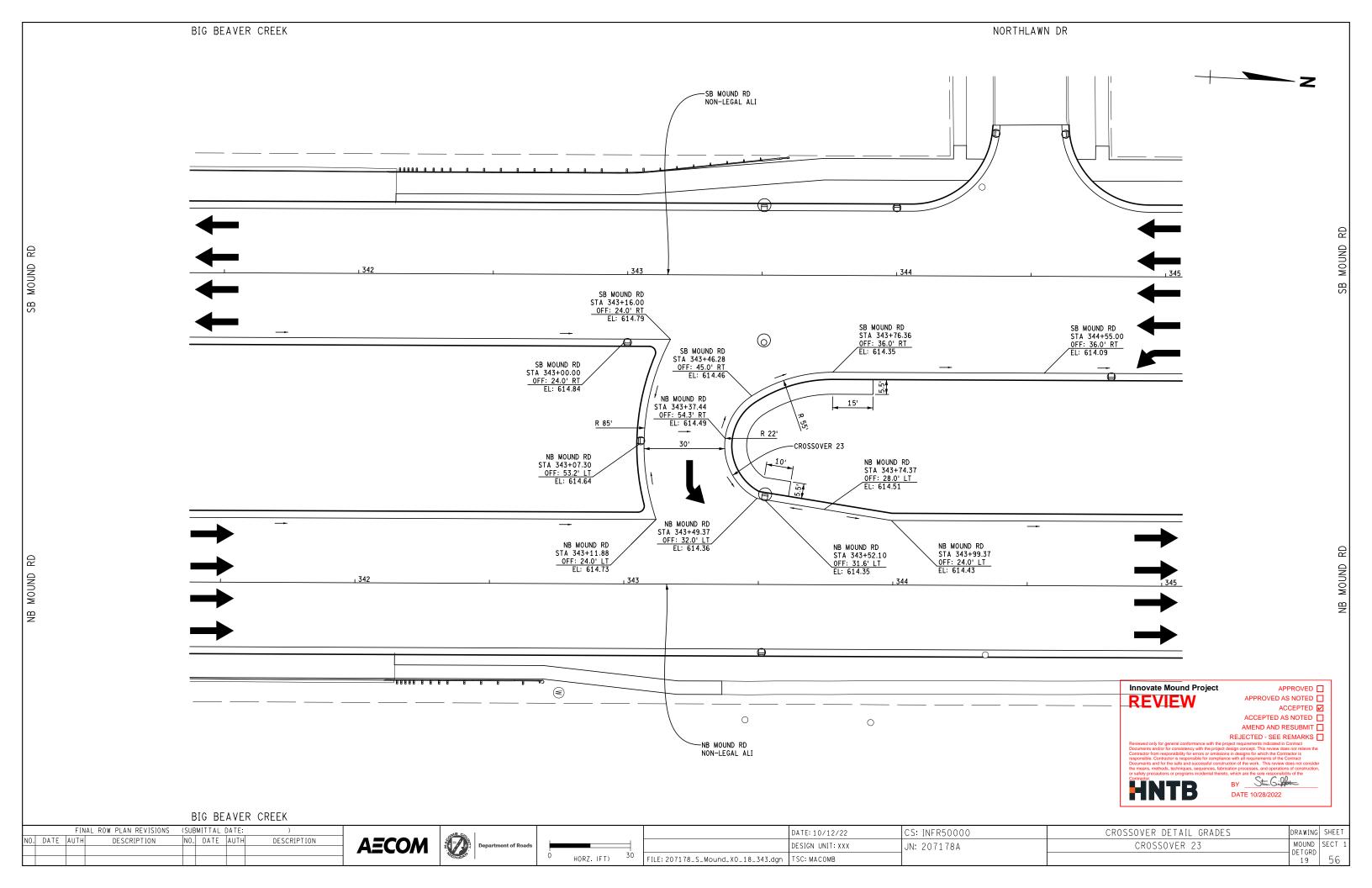


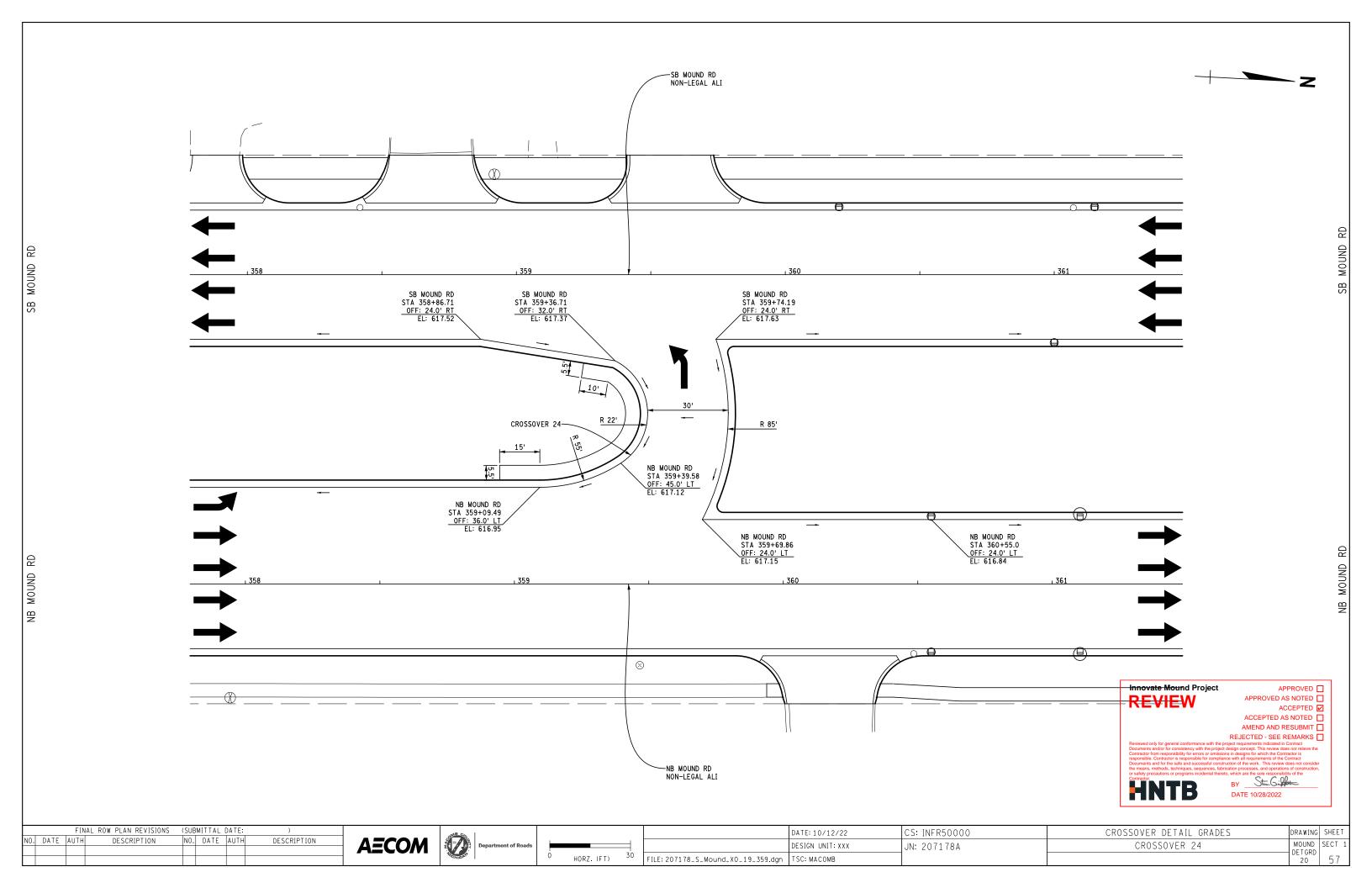


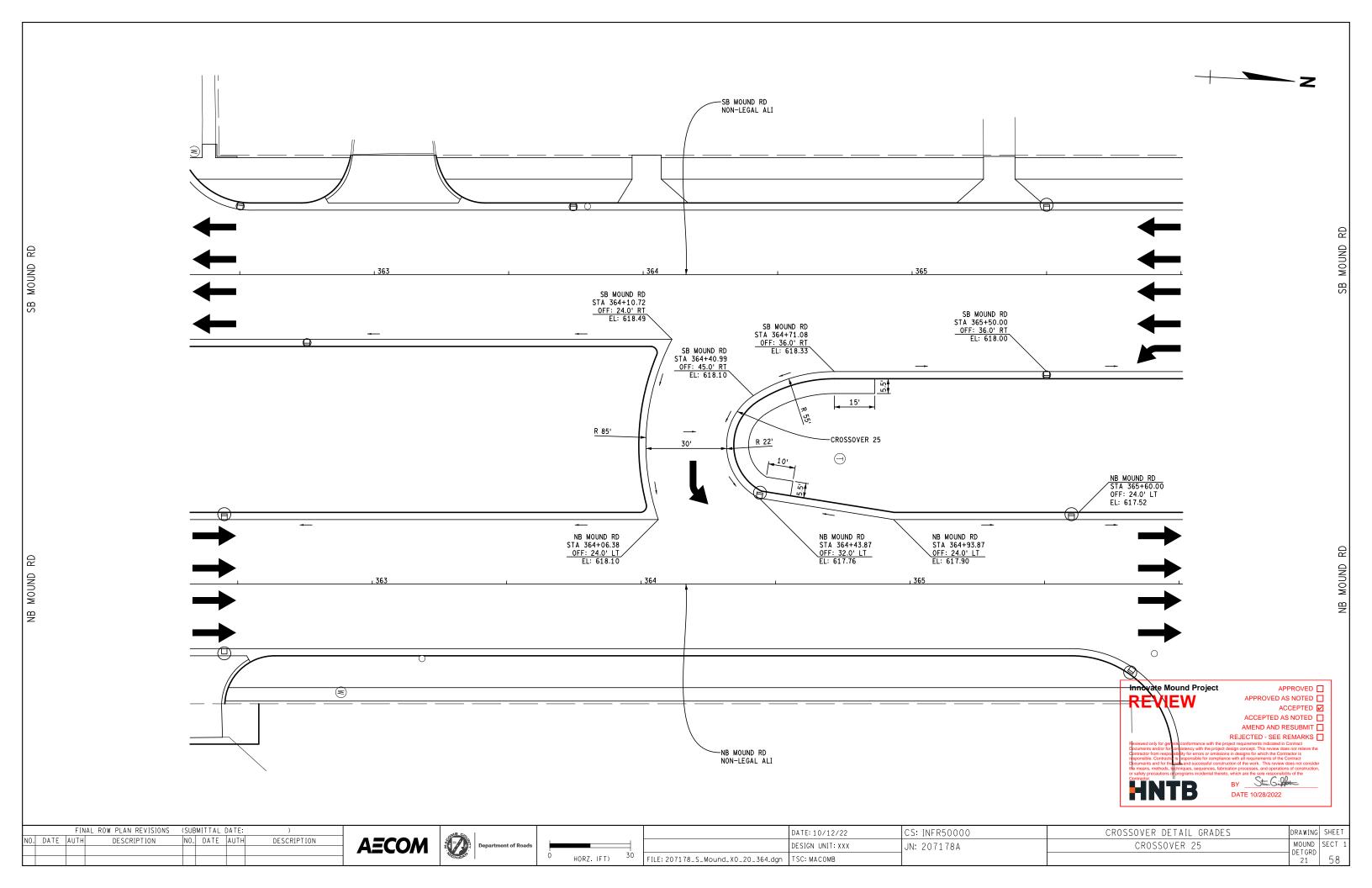


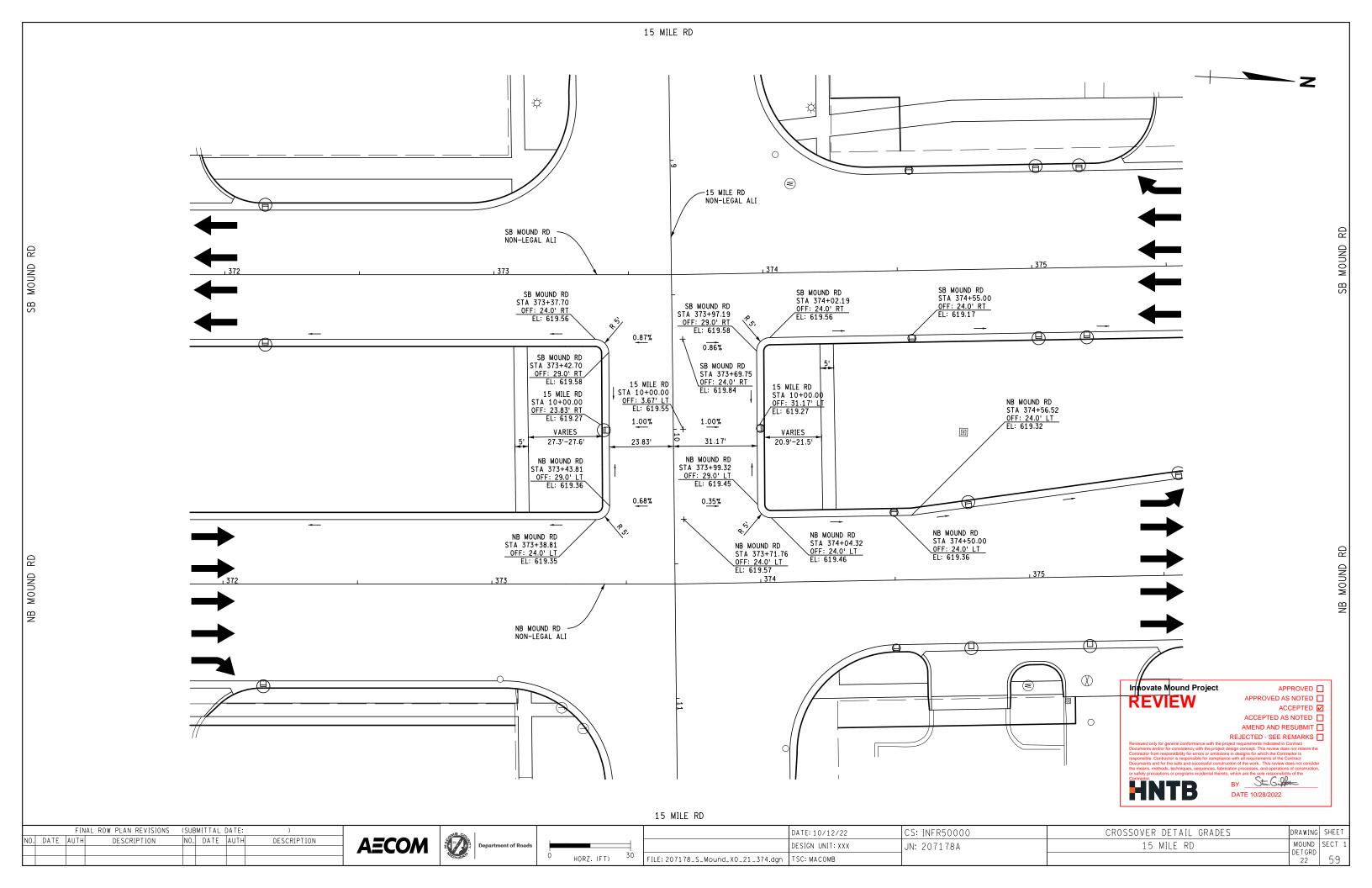


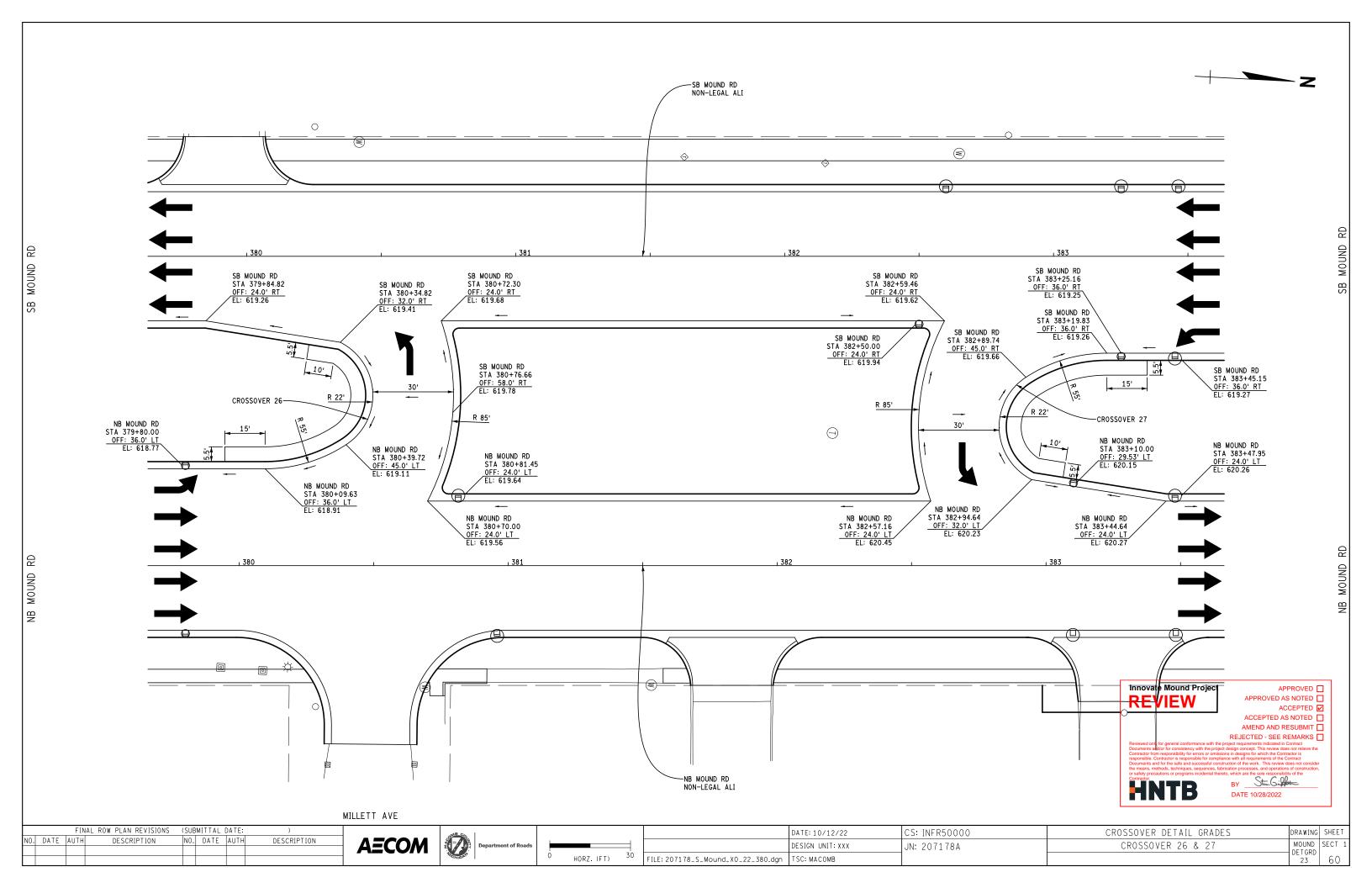


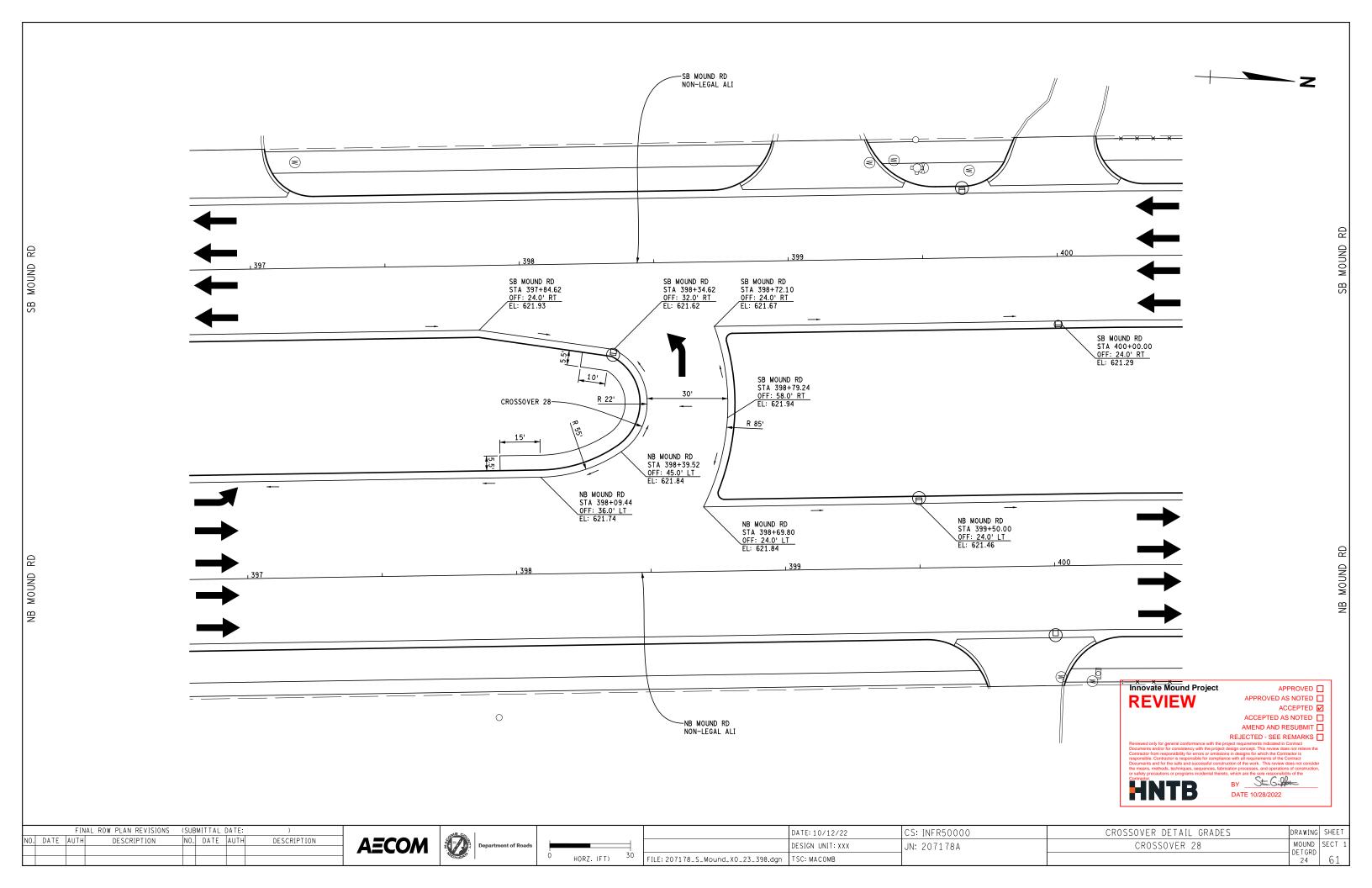


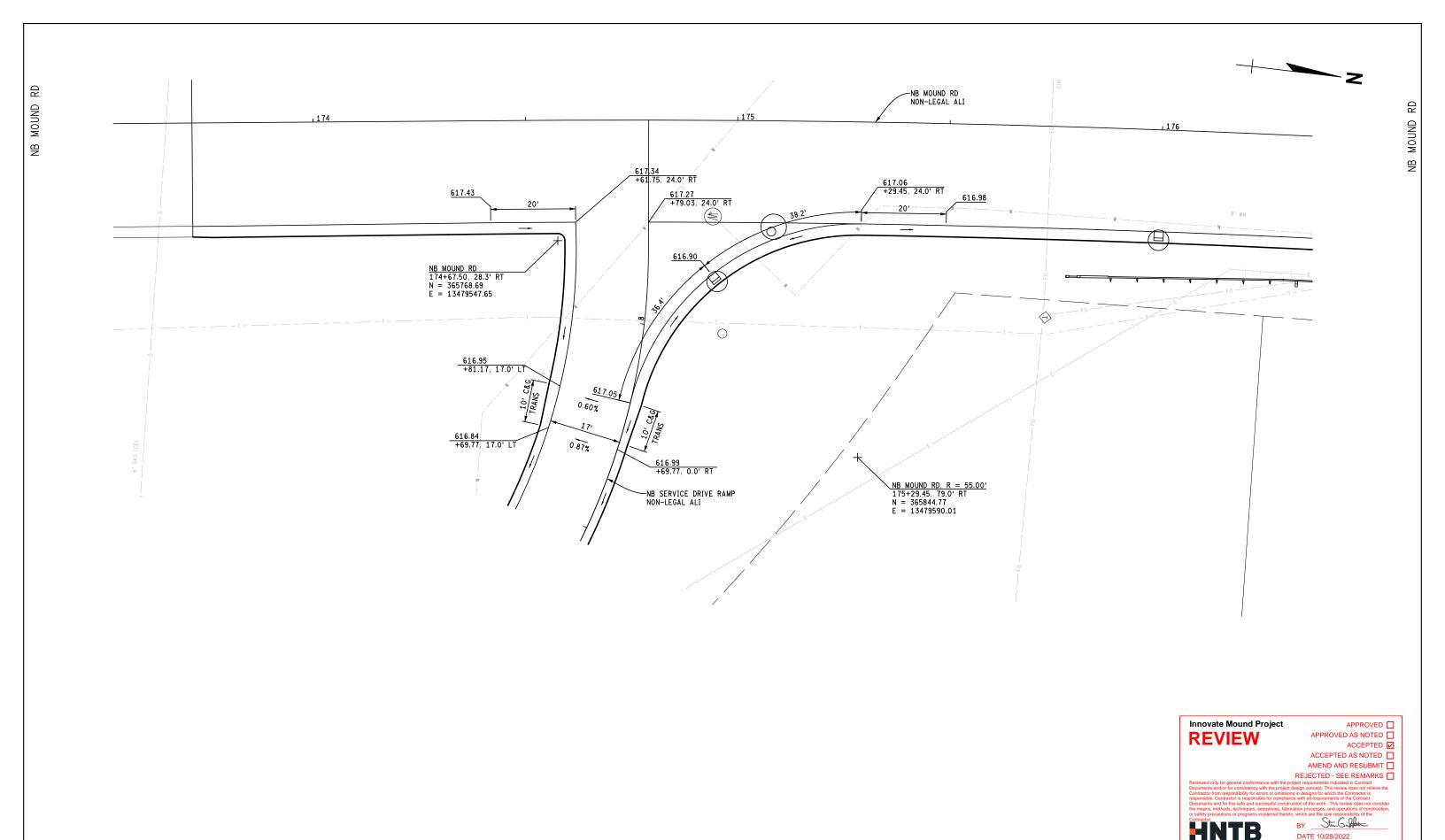






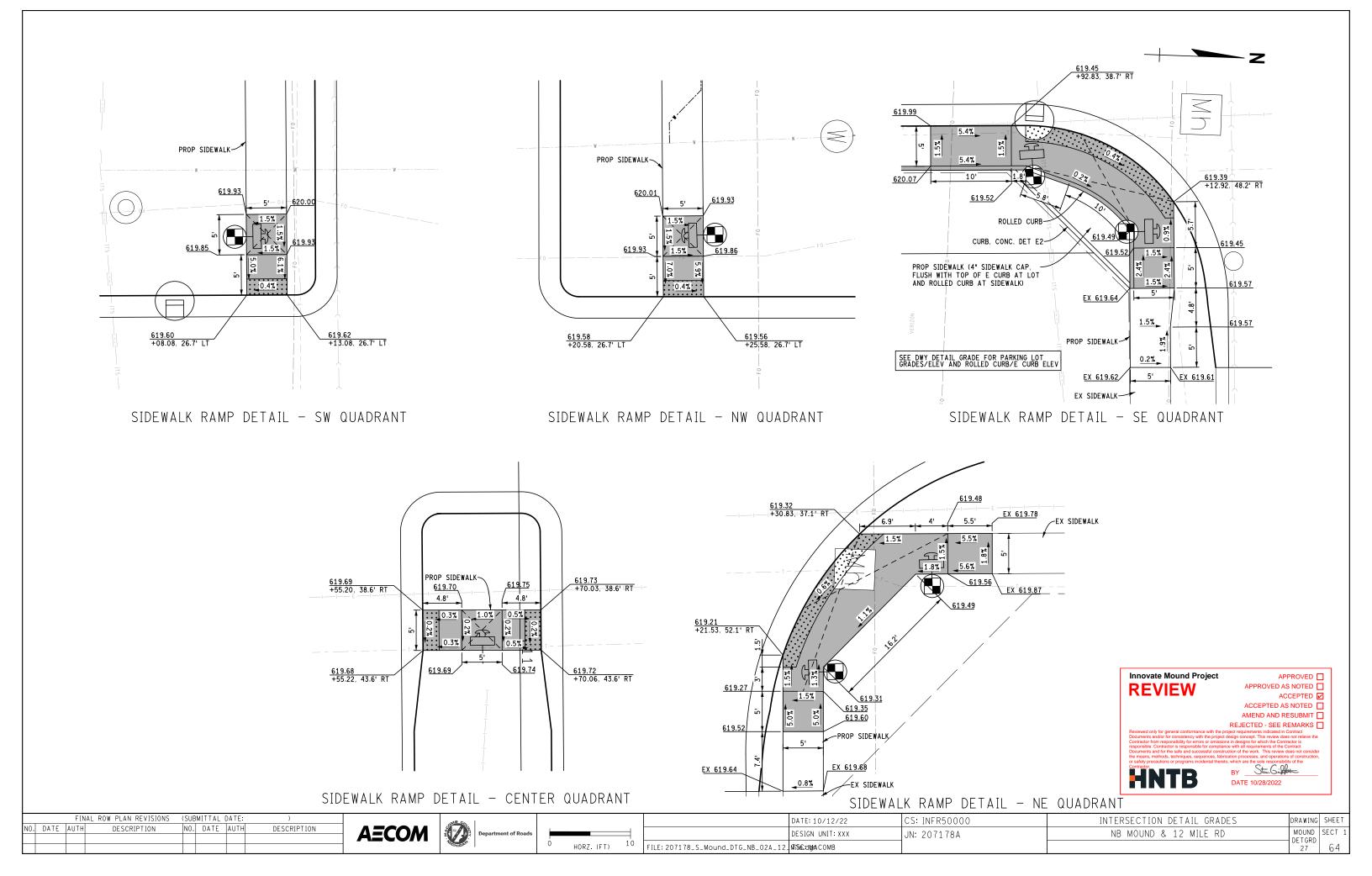


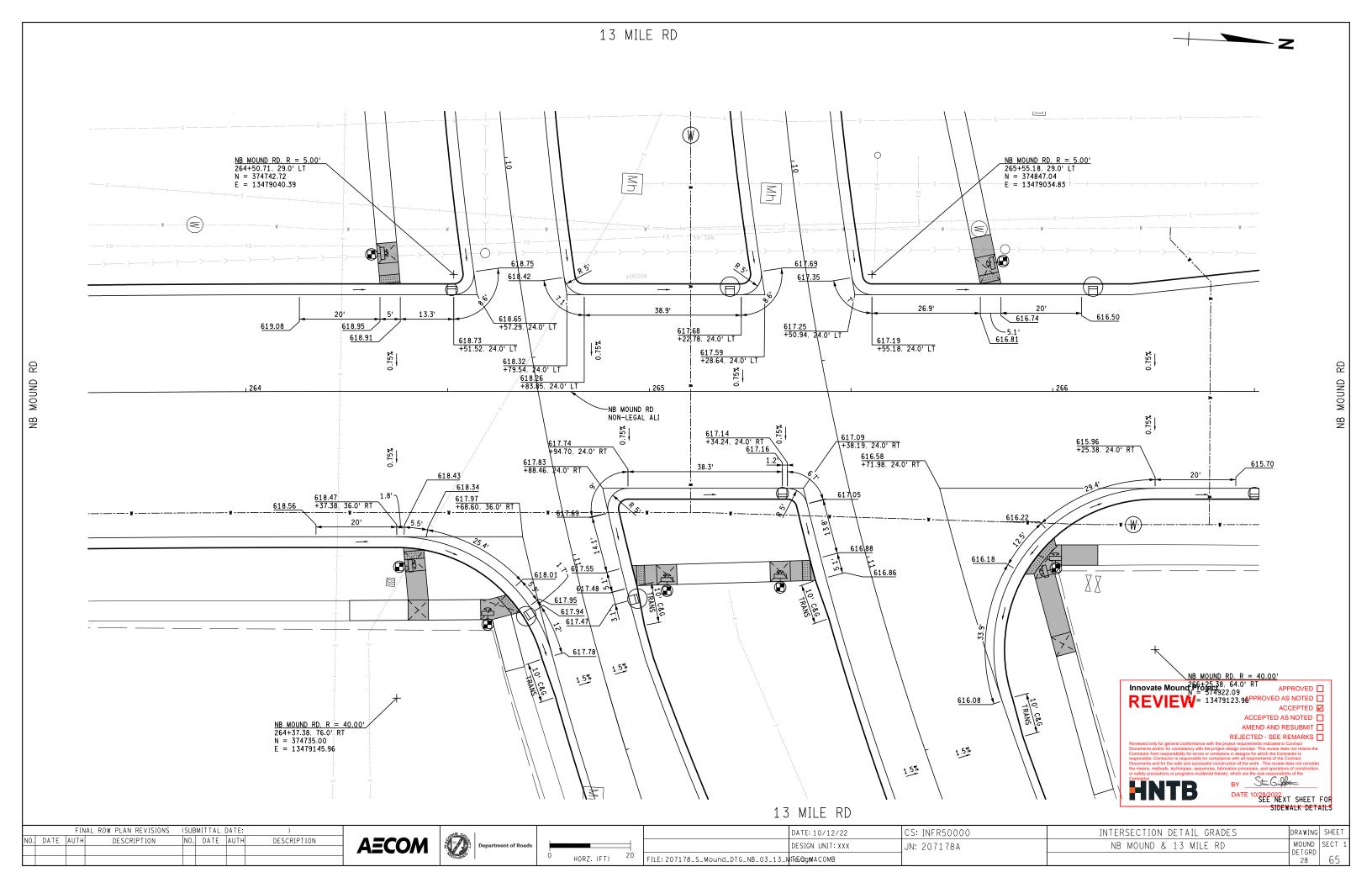


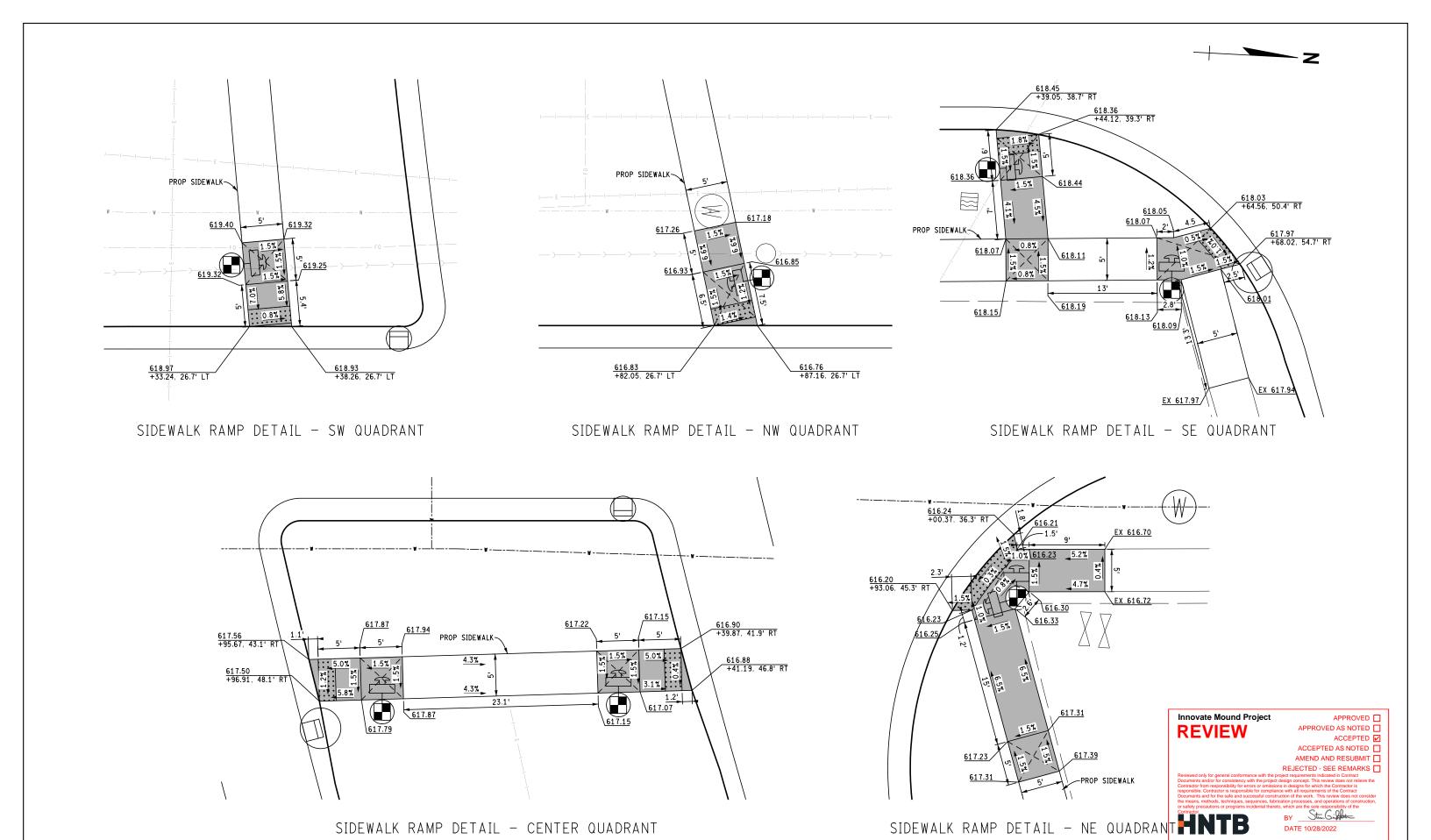


NB	SERVICE	DR
110		D 1 1

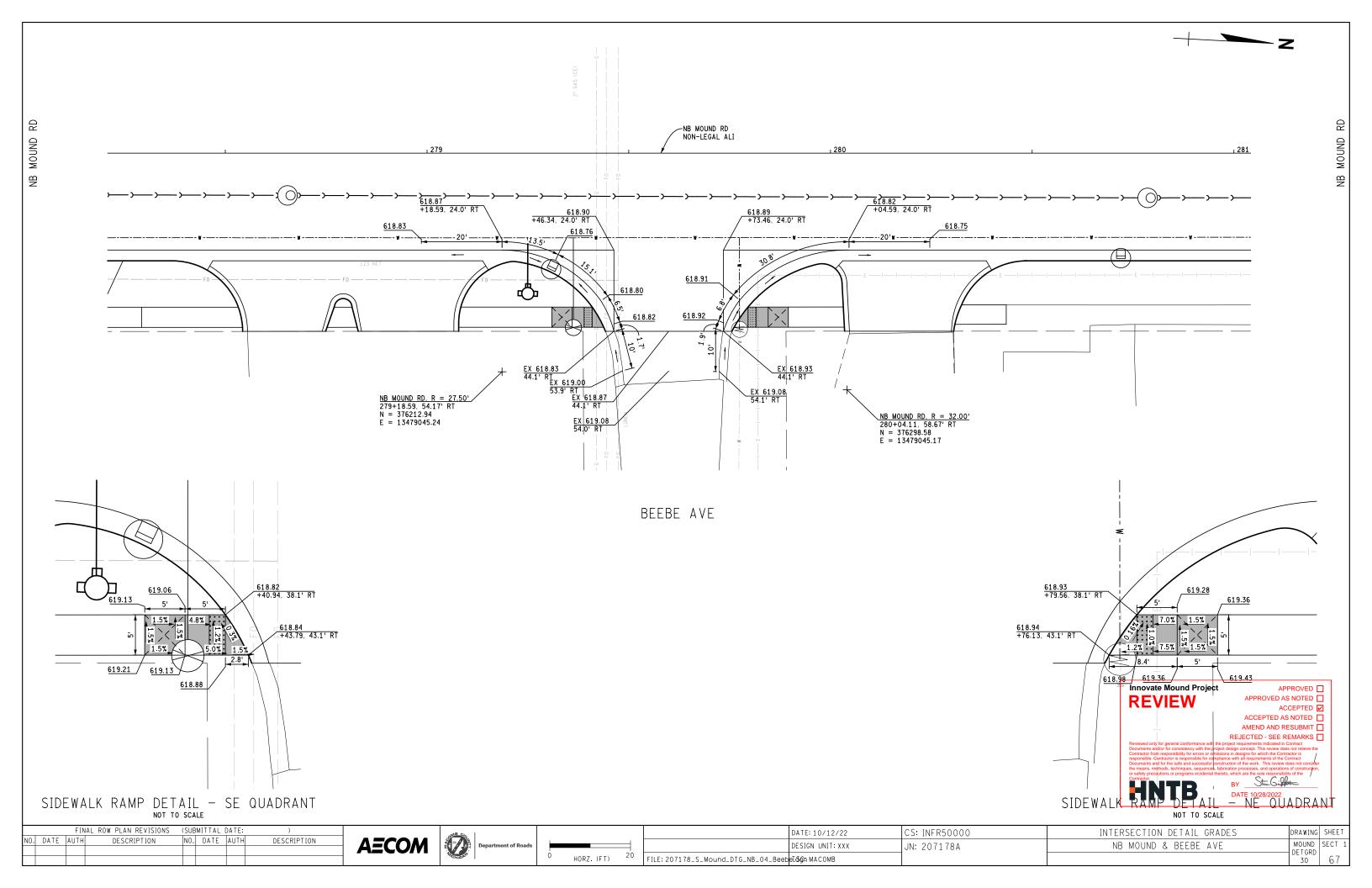
Ę	FIN	AL ROW PLAN REVISIONS (S	SUBMITTAL DATE:)				DATE: 10/12/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING SHEET
ľ	NO. DATE AUTH	DESCRIPTION	IO. DATE AUTH	DESCRIPTION	AECOM D	partment of Roads		DESIGN UNIT: XXX	JN: 207178A	NB MOUND & NB SERVICE DR	MOUND SECT 1
t					WICHIGAT !	0 HORZ. (FT) 20	FILE: 207178_S_Mound_DTG_NB_01_Mou	mdl.SaGanMA COMB			25 62

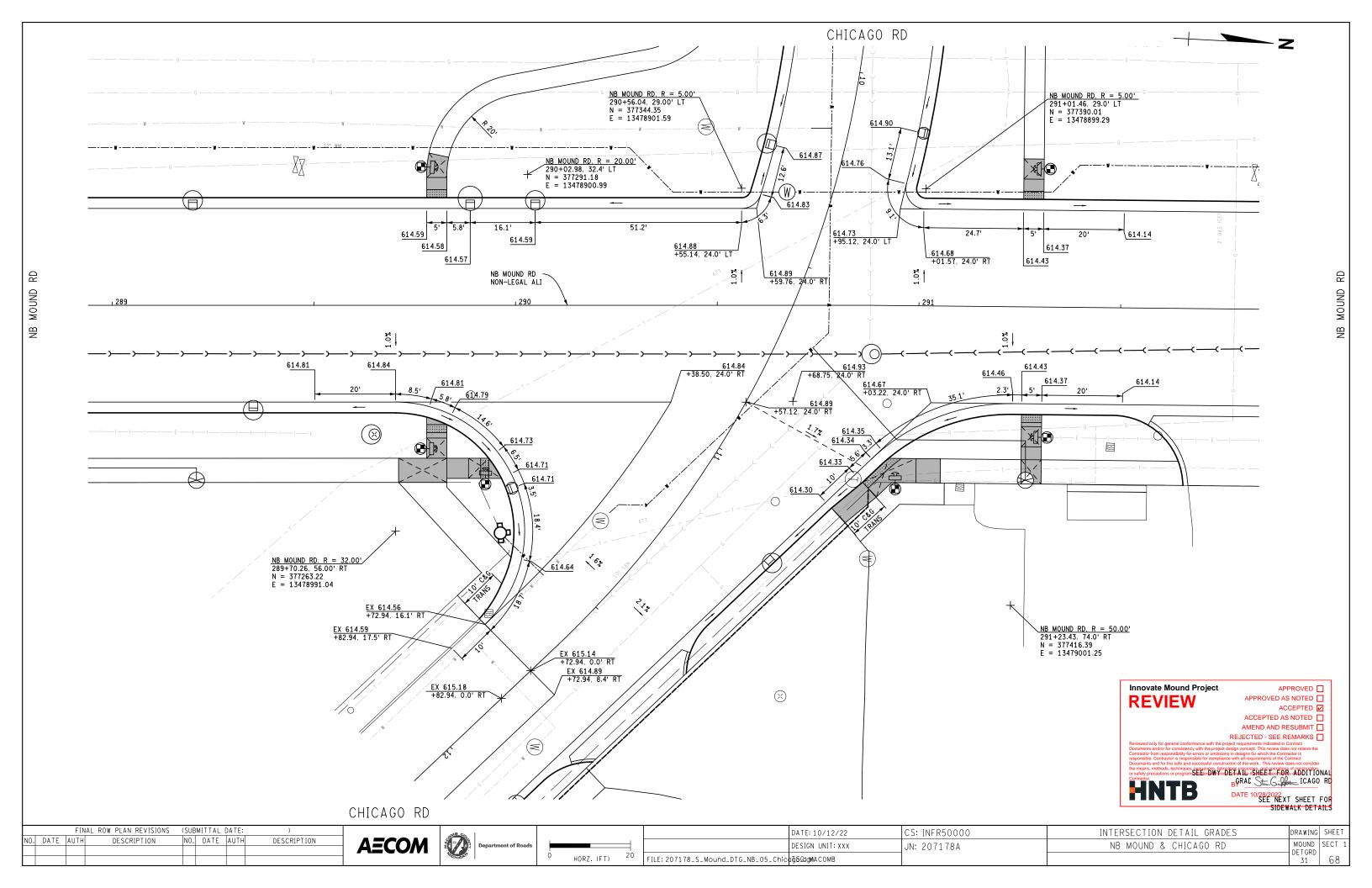


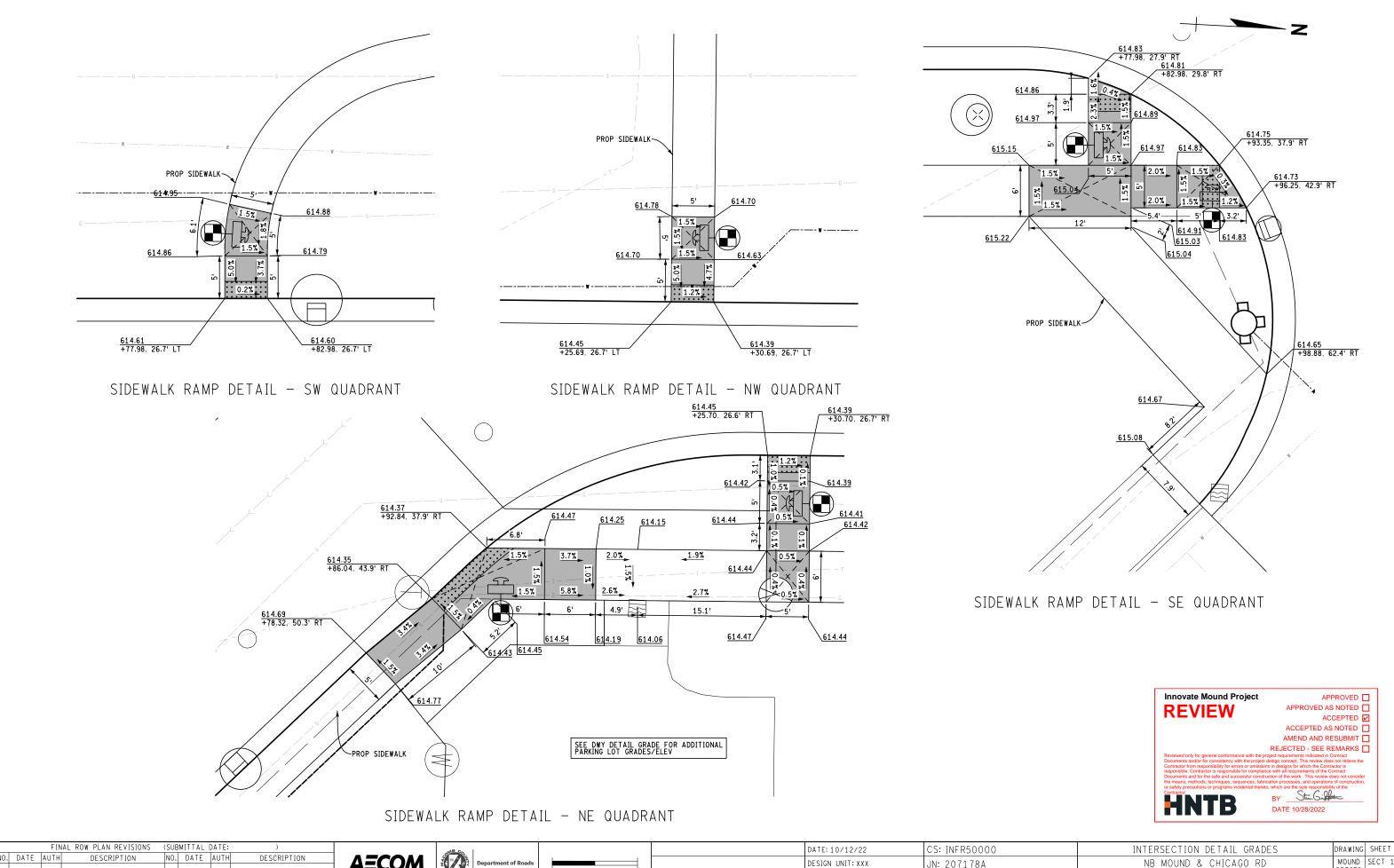




FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)		DATE: 10/12/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING SHEET
NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION	AECOM Department of Roads	DESIGN UNIT: XXX	JN: 207178A	NB MOUND & 13 MILE RD	MOUND SECT 1
	HORZ. (FT)	FILE: 207178_S_Mound_DTG_NB_03A_13_MISECUMACOMB			29 66







DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION

AECOM

Pepartment of Roads

DATE: 10717/22

CS: INFRSOUOU

INTERSECTION DETAIL GRADES

DRAWING SHEEL

ON DATE: 10717/22

CS: INFRSOUOU

INTERSECTION DETAIL GRADES

DRAWING SHEEL

ON DATE: 10717/22

CS: INFRSOUOU

INTERSECTION DETAIL GRADES

DRAWING SHEEL

ON DATE: 10717/22

CS: INFRSOUOU

INTERSECTION DETAIL GRADES

DRAWING SHEEL

ON DATE: 10717/22

CS: INFRSOUOU

INTERSECTION DETAIL GRADES

DRAWING SHEEL

ON DETAIL GRADES

DETAIL GRADES

DETAIL GRADES

DETAIL GRADES

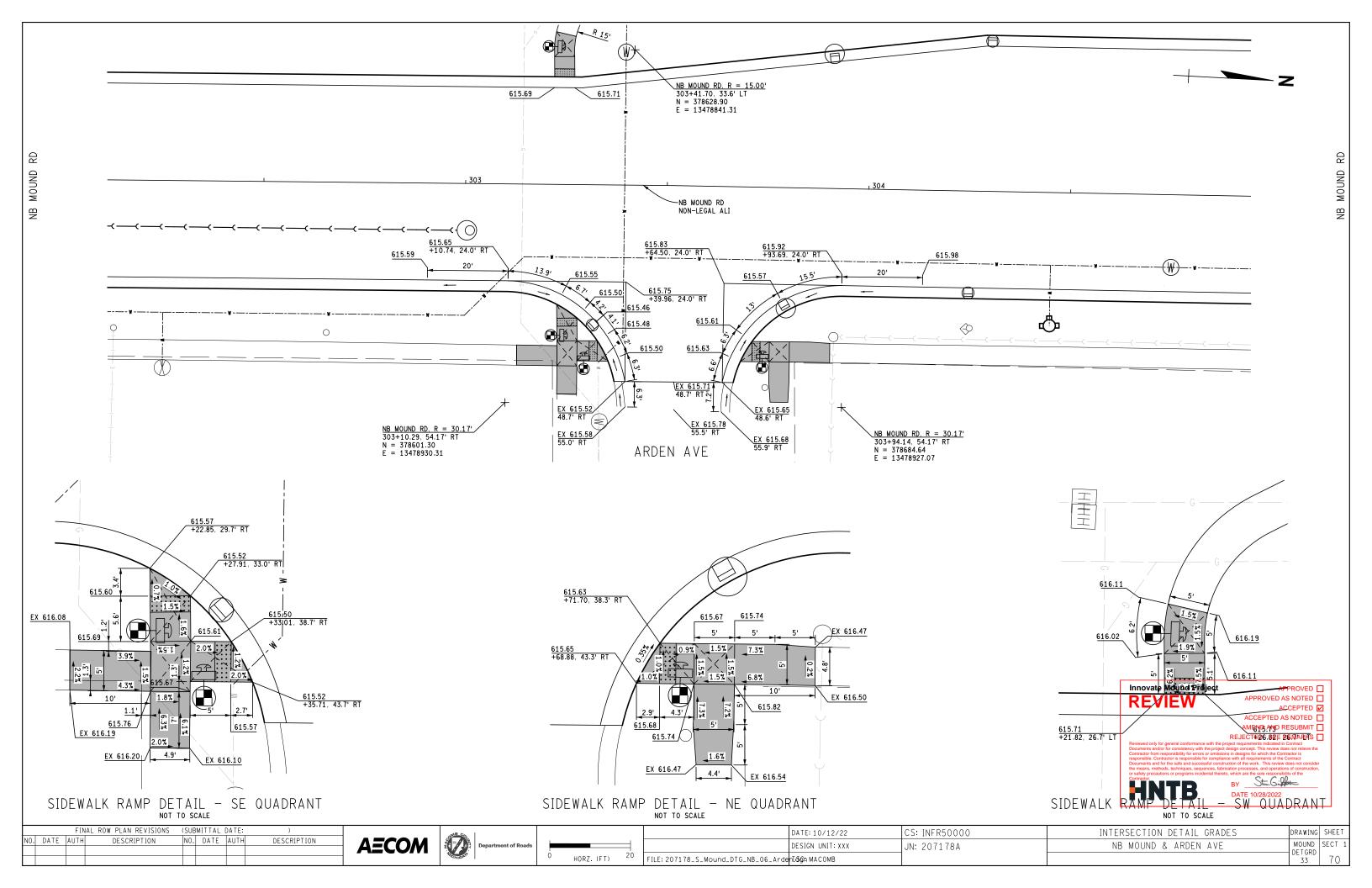
NB MOUND & CHICAGO RD

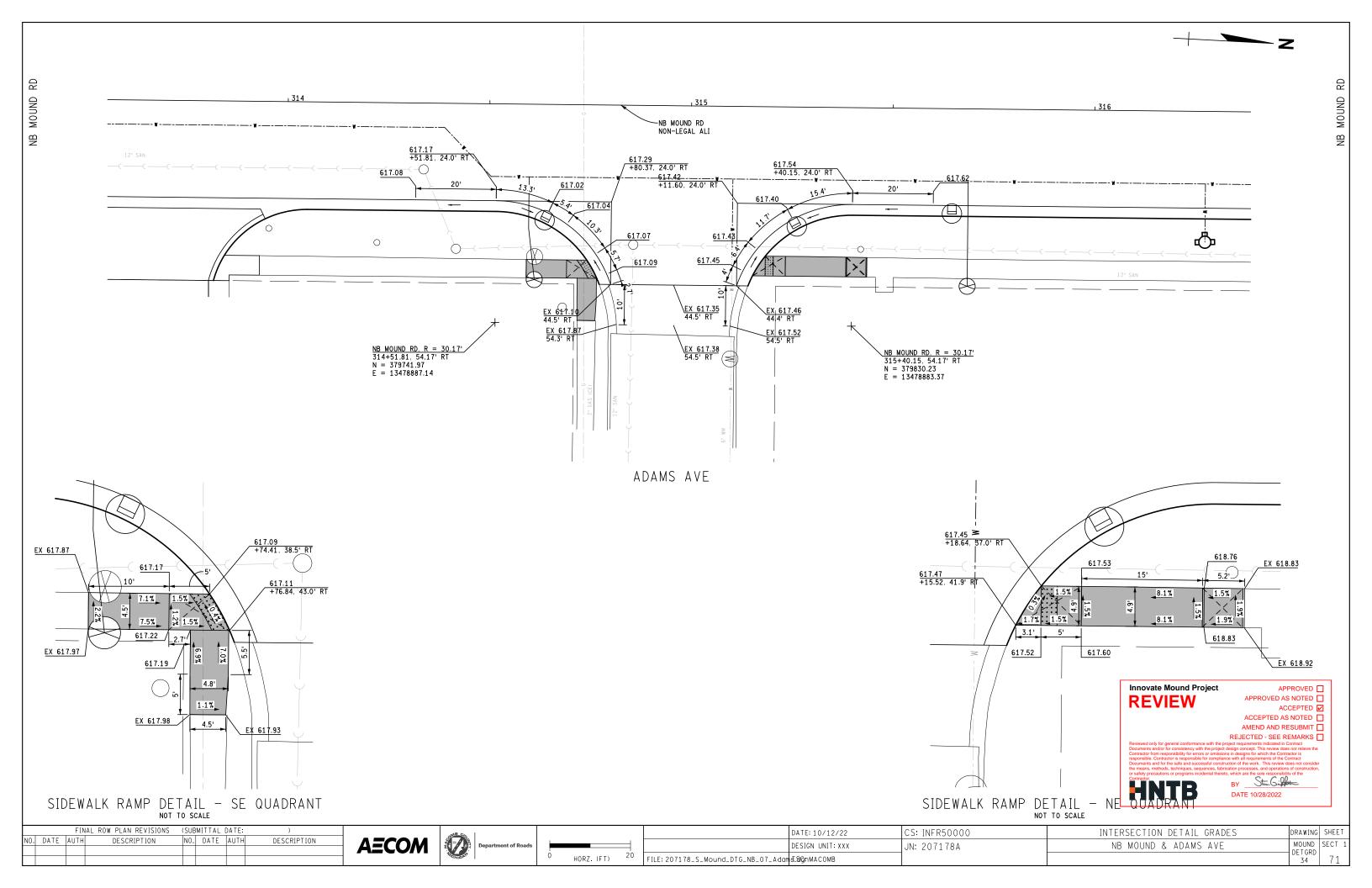
DETGRD

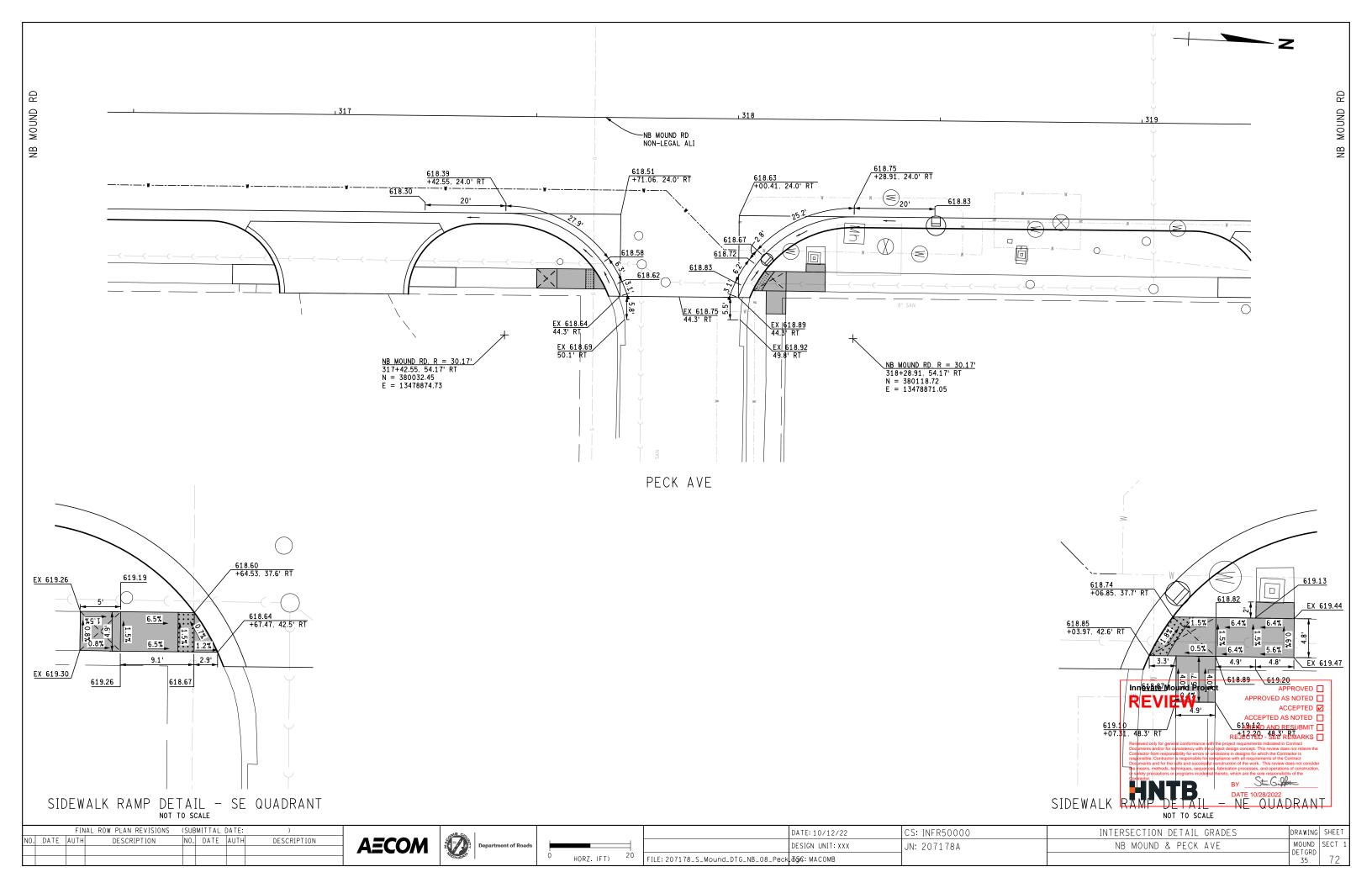
DETGRD

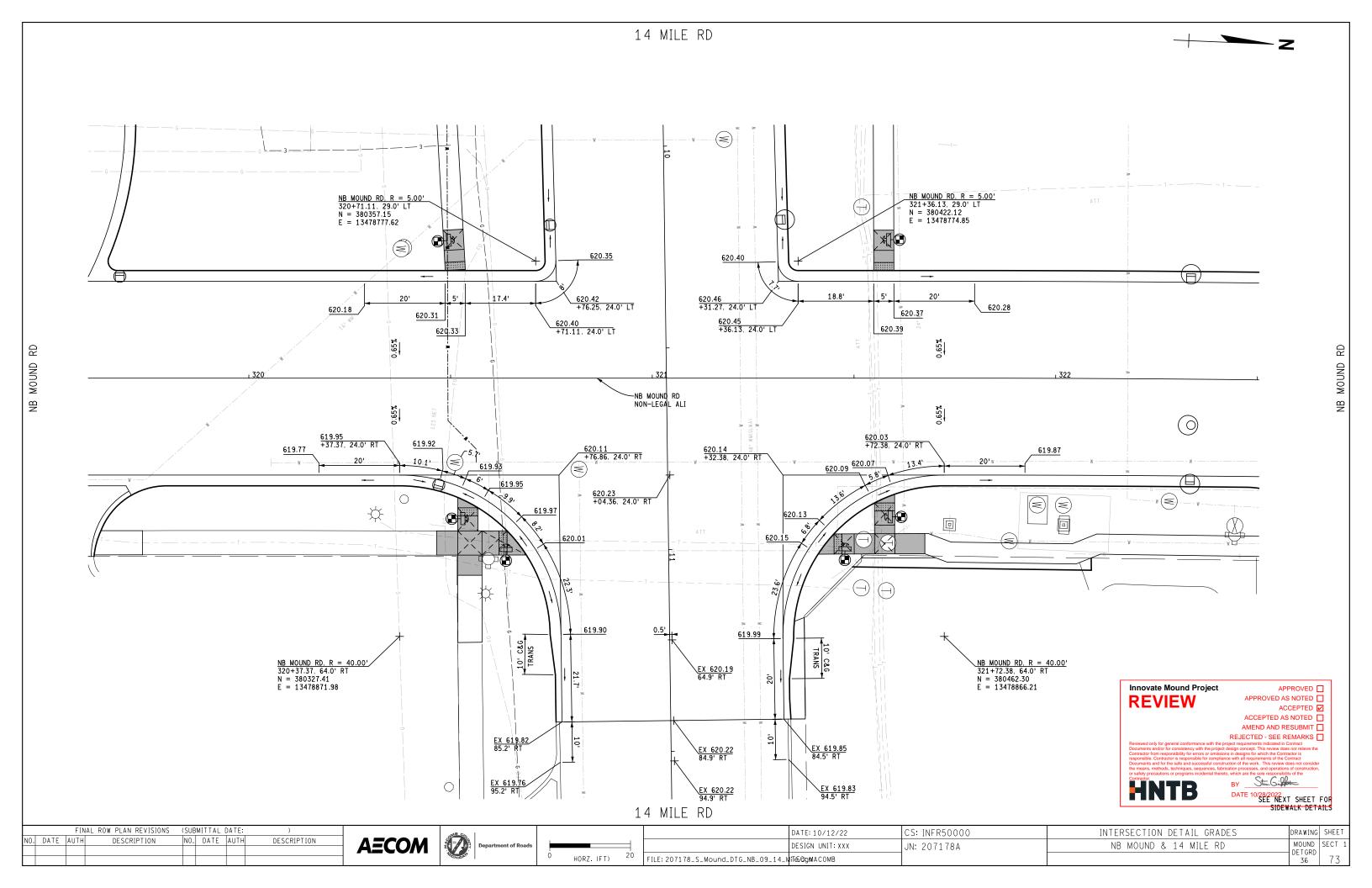
OF THE 207178_S_MOUND_DETGRD

OF THE 207178_S

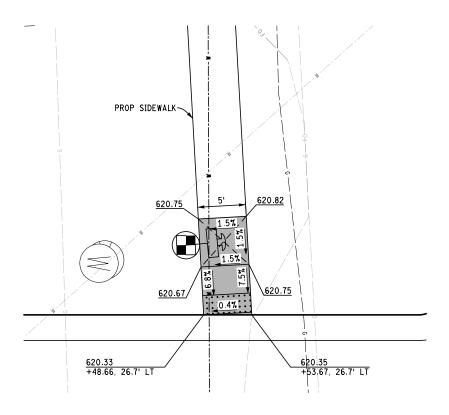




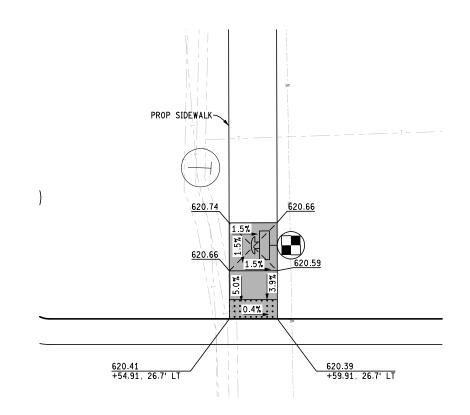




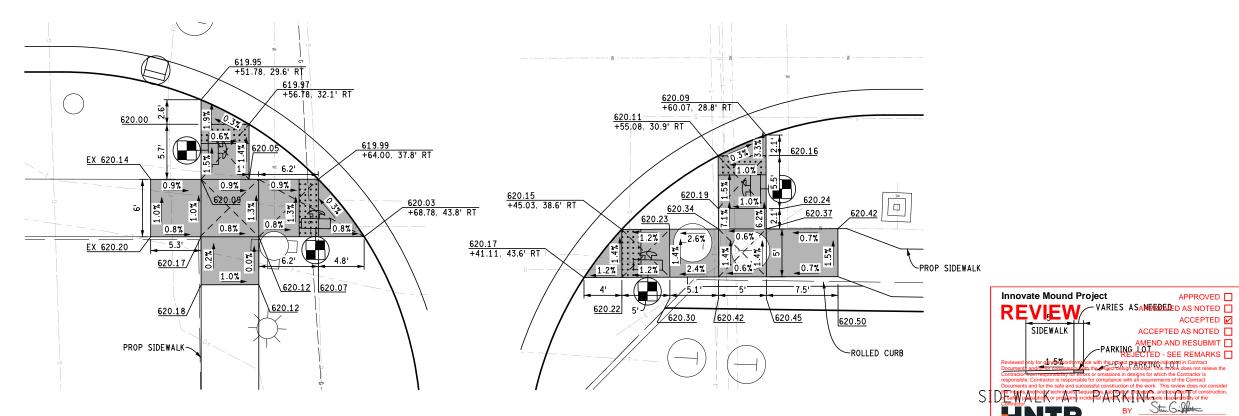




SIDEWALK RAMP DETAIL - SW QUADRANT



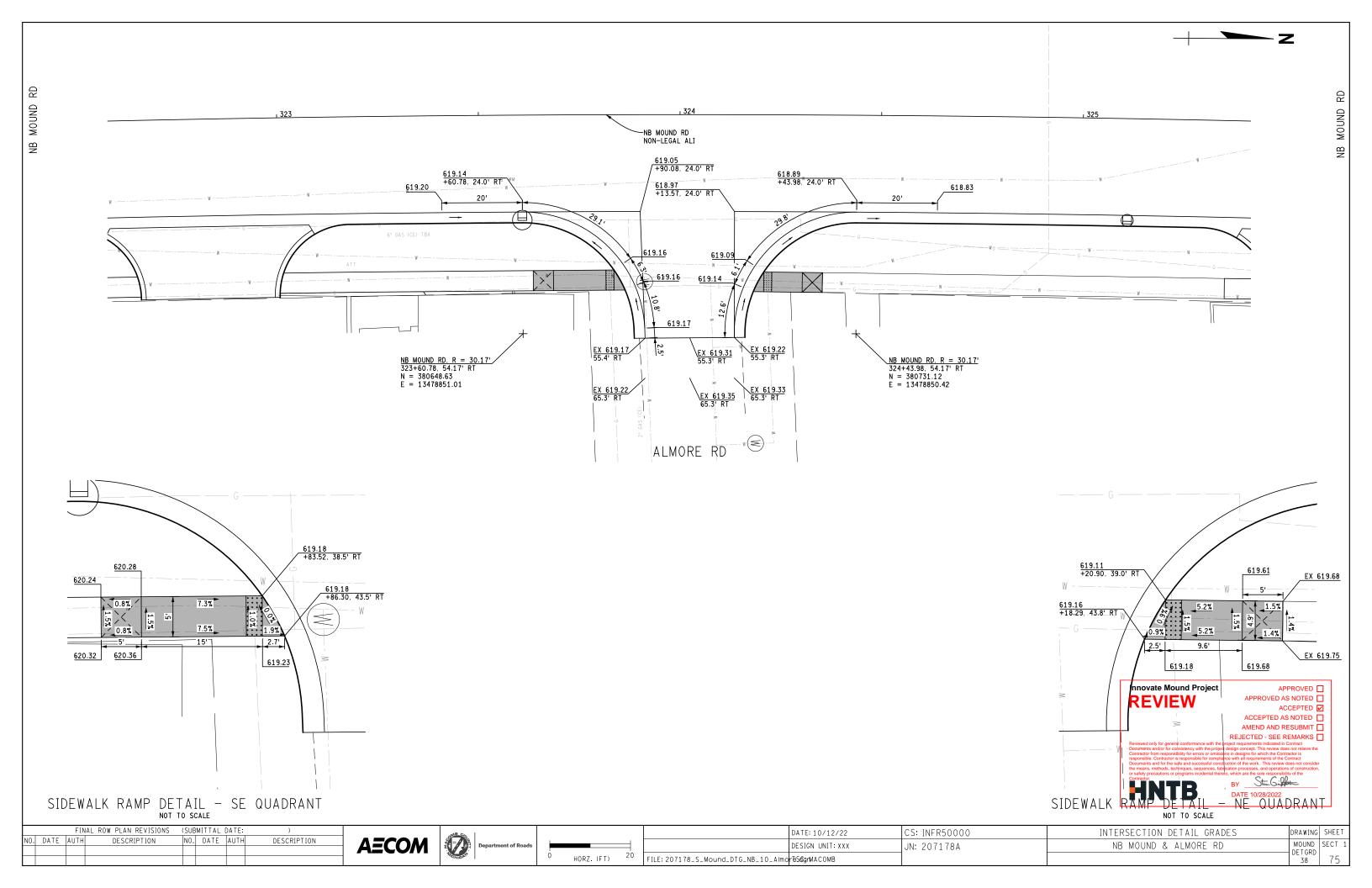
SIDEWALK RAMP DETAIL - NW QUADRANT

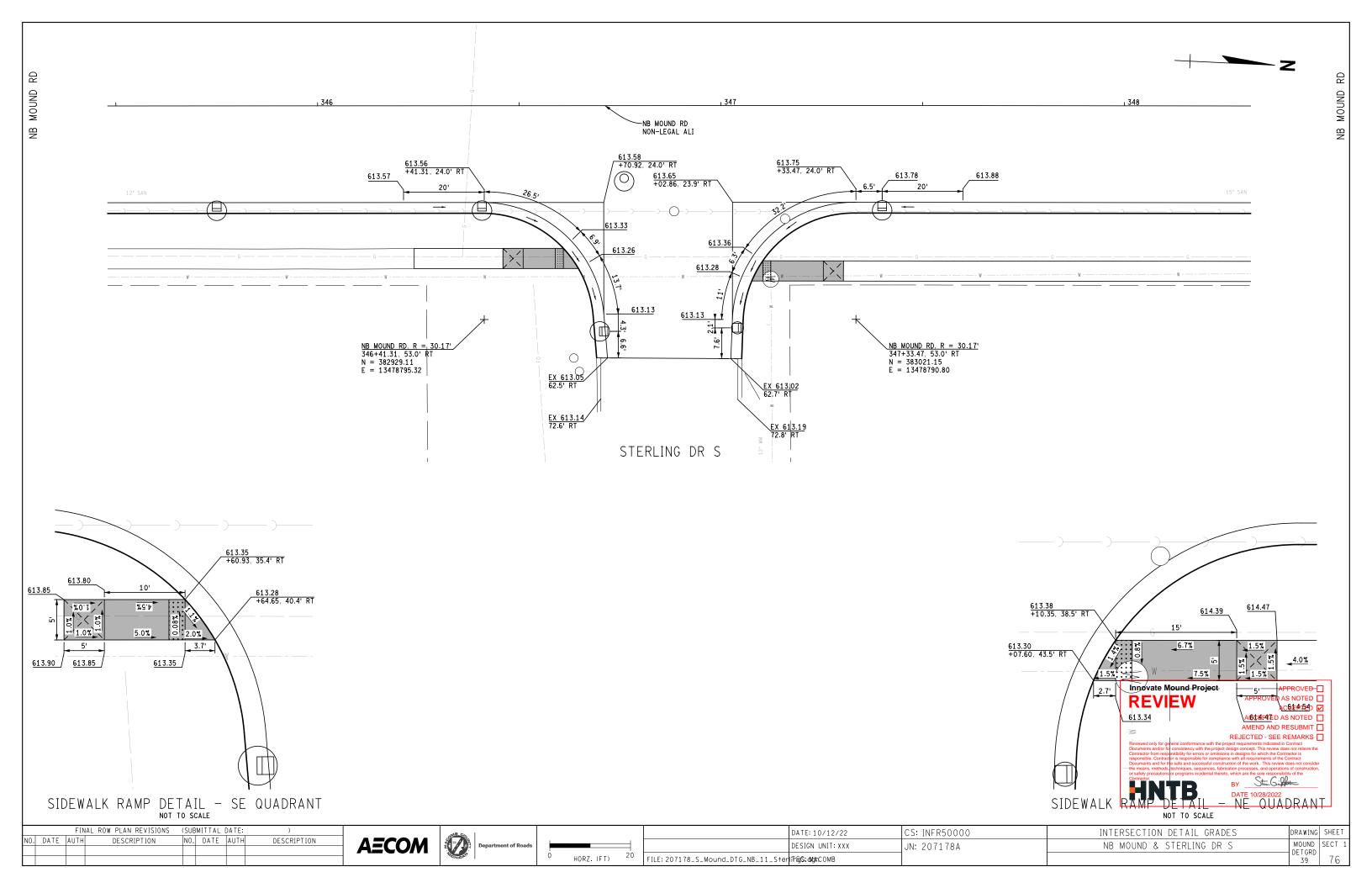


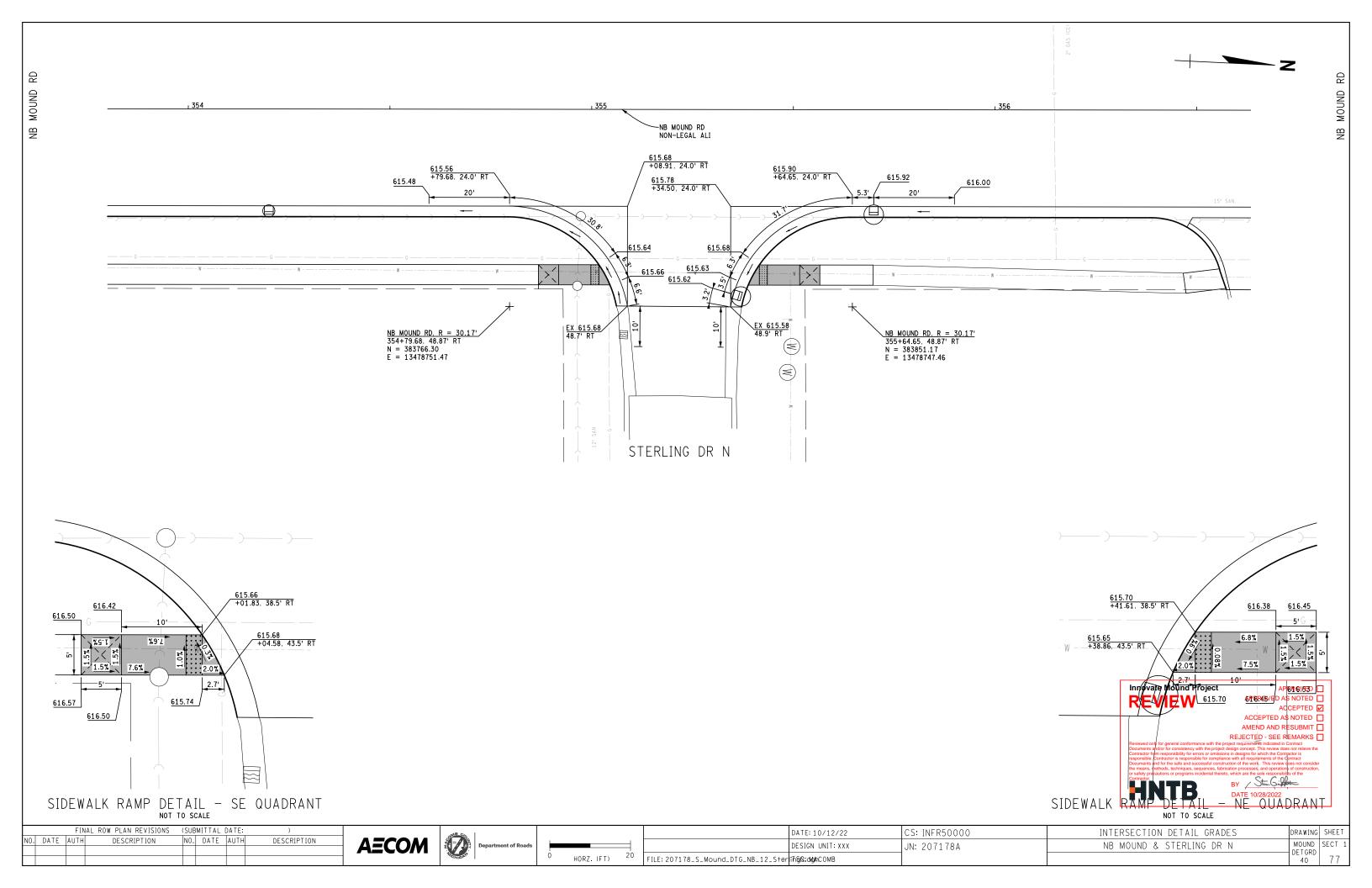
SIDEWALK RAMP DETAIL - SE QUADRANT

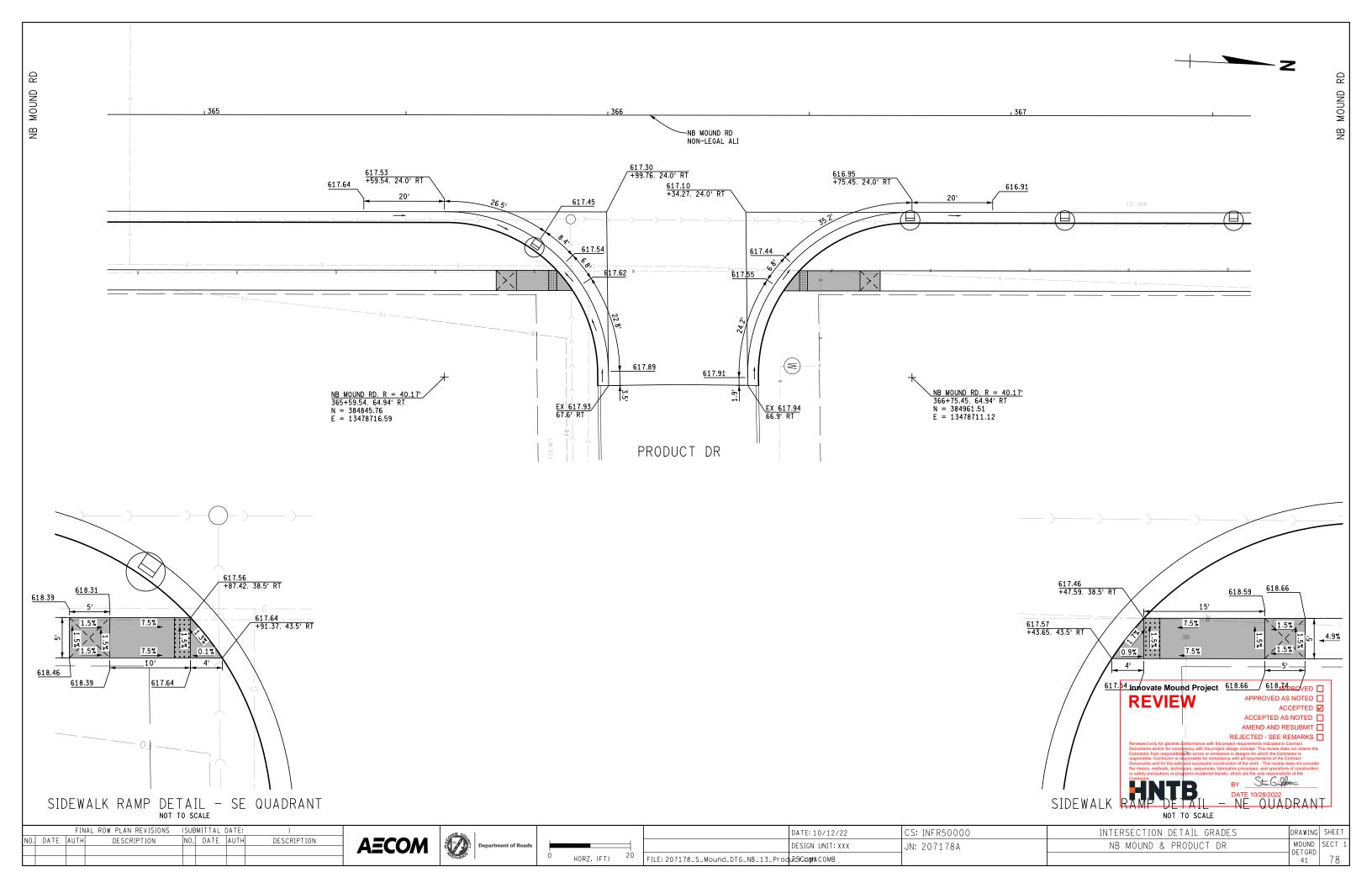
SIDEWALK RAMP DETAIL - NE QUADRANT

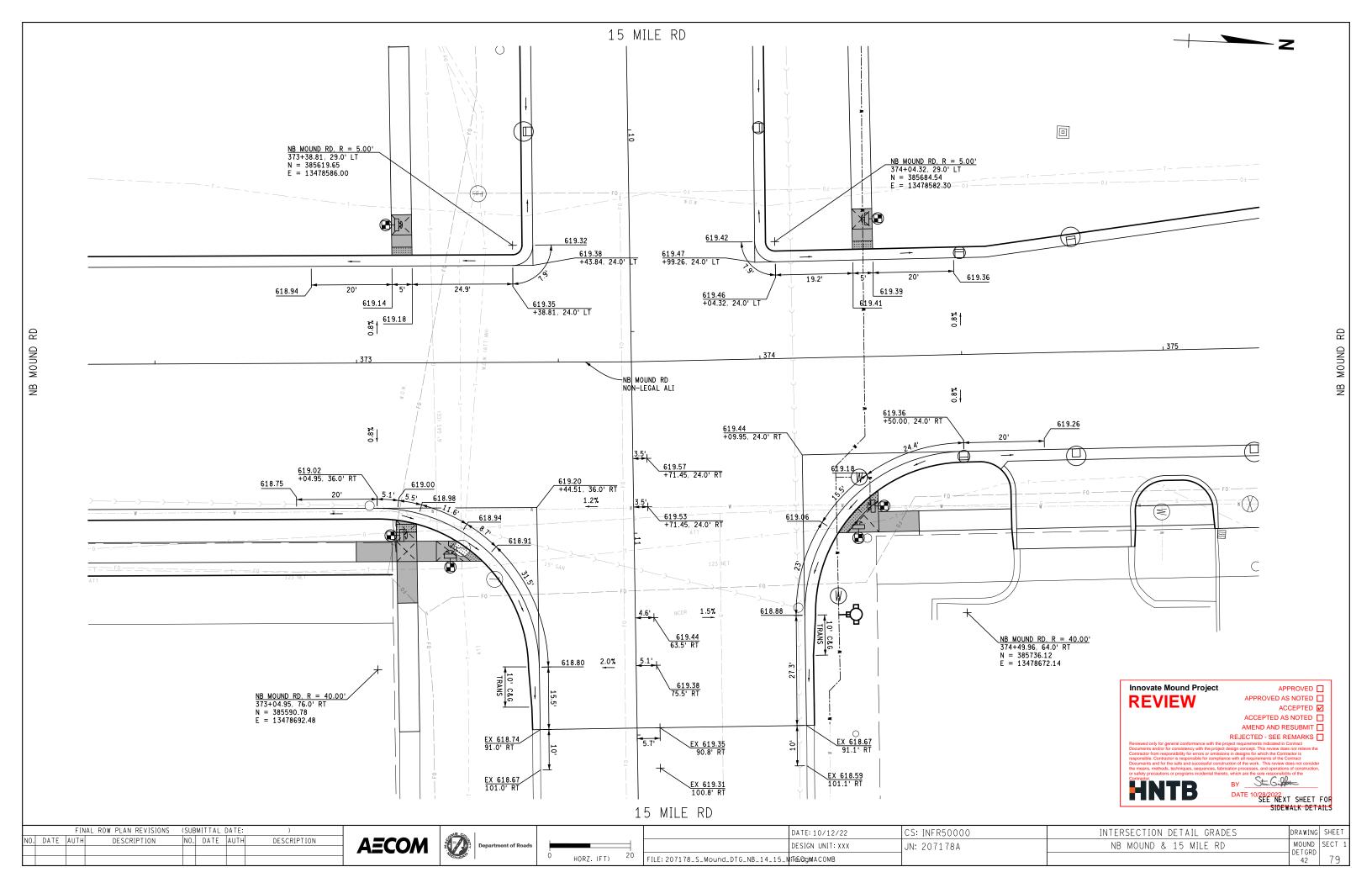
L	FINAL ROW PLAN REVISIONS)		OMB CO.			DATE: 10/12/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING	SHEET
NO	DATE AUTH DESCRIPTION	NO. DATE	AUTH	DESCRIPTION	A ECOM	Department of Roads			DESIGN UNIT: XXX	JN: 207178A	NB MOUND & 14 MILE RD	MOUND DETGRD	
					7 0 1	MOHIGAN	0 HORZ. (FT) 10	FILE: 207178_S_Mound_DTG_NB_09A_14	MISSE HIMA COMB			37	74



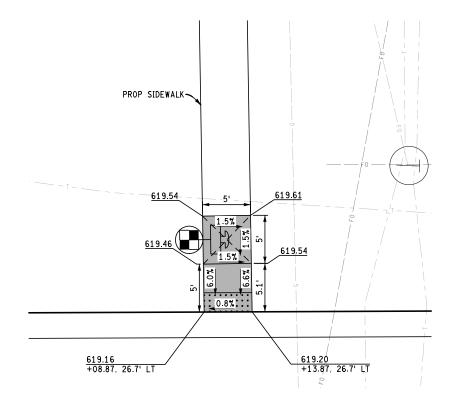




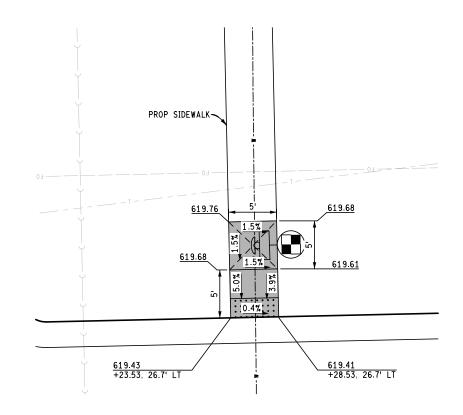




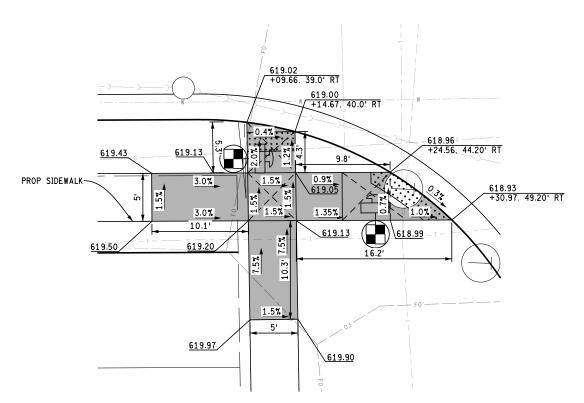




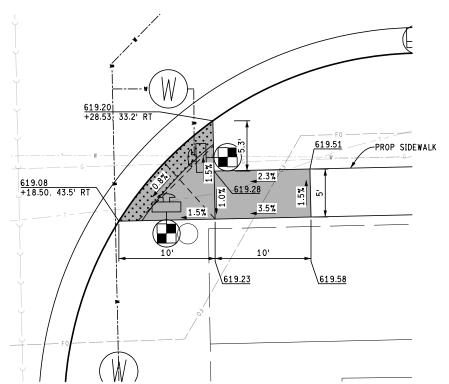
SIDEWALK RAMP DETAIL - SW QUADRANT



SIDEWALK RAMP DETAIL - NW QUADRANT



SIDEWALK RAMP DETAIL - SE QUADRANT



SIDEWALK RAMP DETAIL - NE QUADRANT

Innovate Mound Project

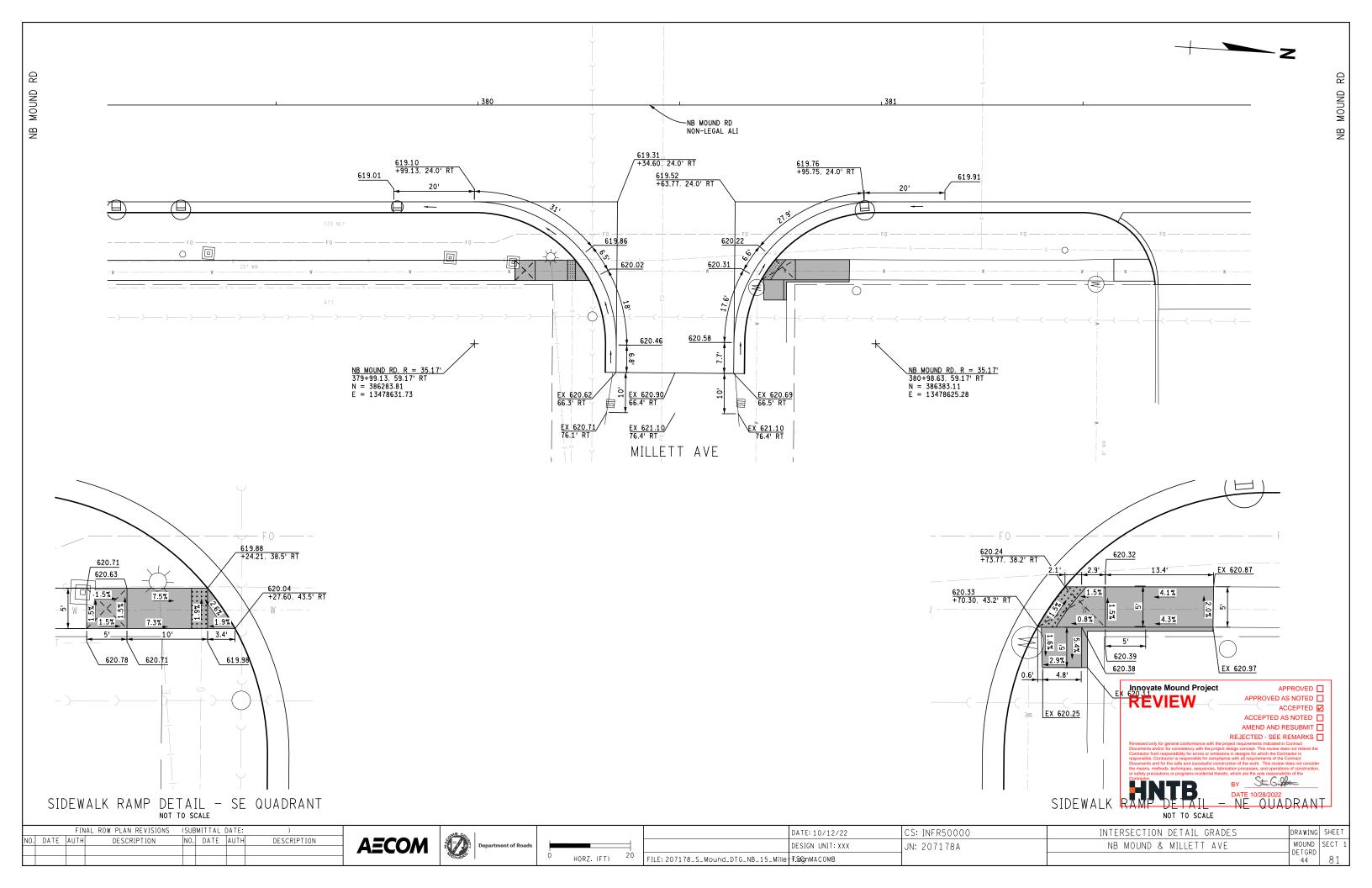
REVIEW

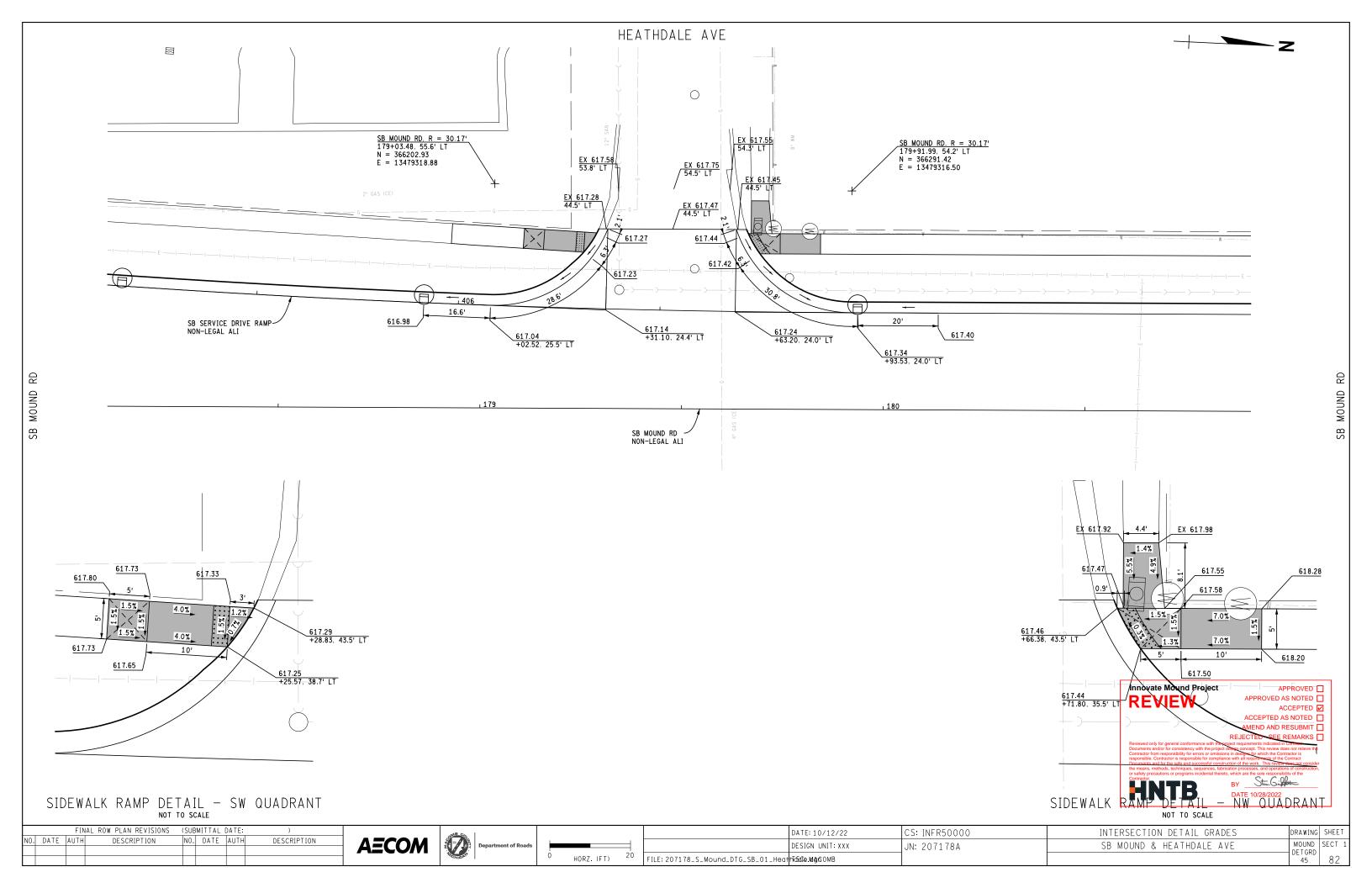
APPROVED AS NOTED ACCEPTED AS ACCE

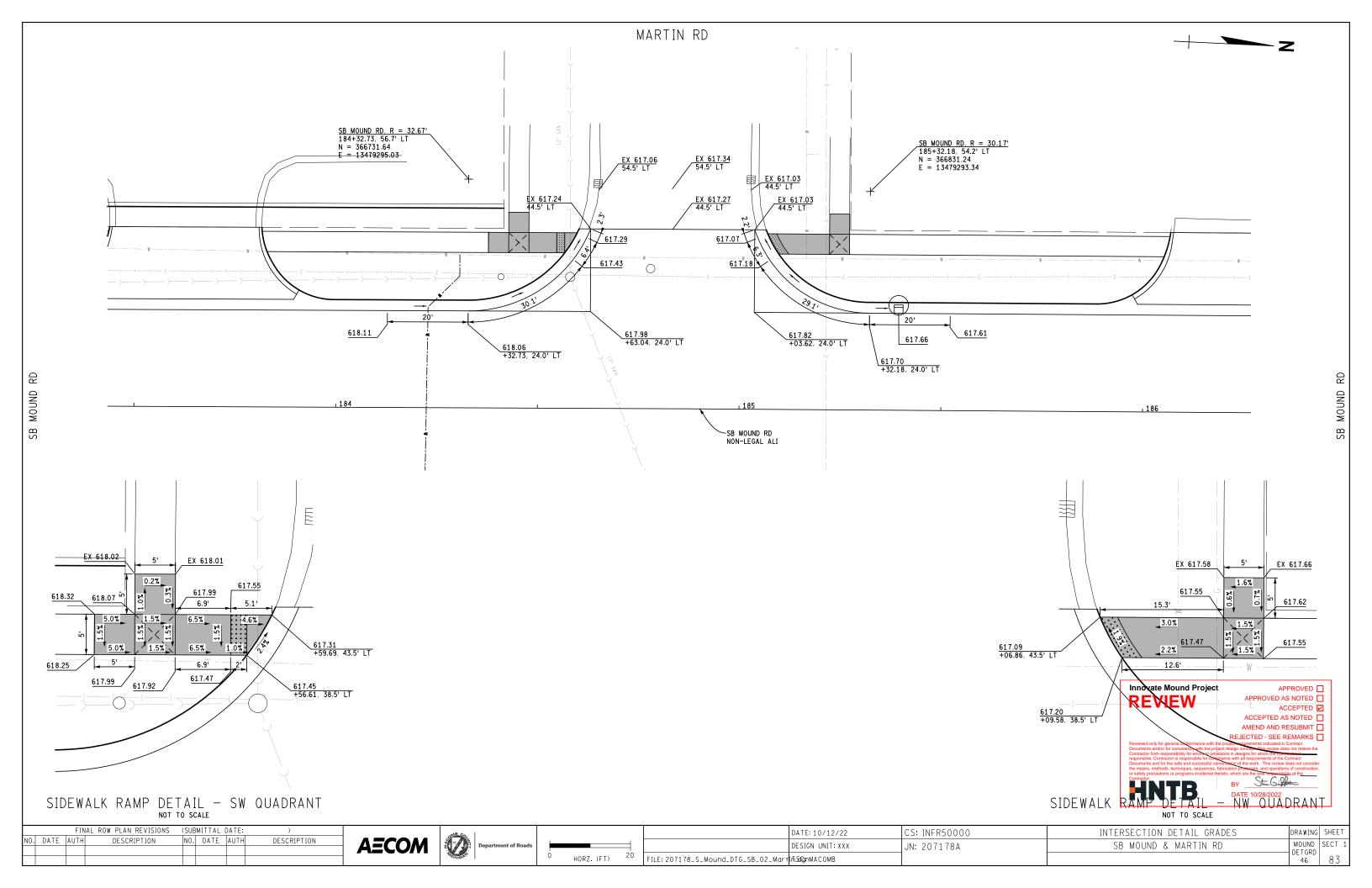
Reviewed only for general conformance with the project requirements indicated in Contract Documents and/or for consistency with the project design concept. This review does not relieve the Contractor from responsibility for errors or omissions in designs for which the Contractor is responsible. Or compliance with all requirements of the Contractor is responsible for compliance with all requirements of the Contractor Documents and for the safe and successful construction of the work. This review does not consider the means, methods, sechniques, sequences, fabrication processes, and operations of construction or safety precautions or programs incidental thereto, which are the sole responsibility of the Contractor.

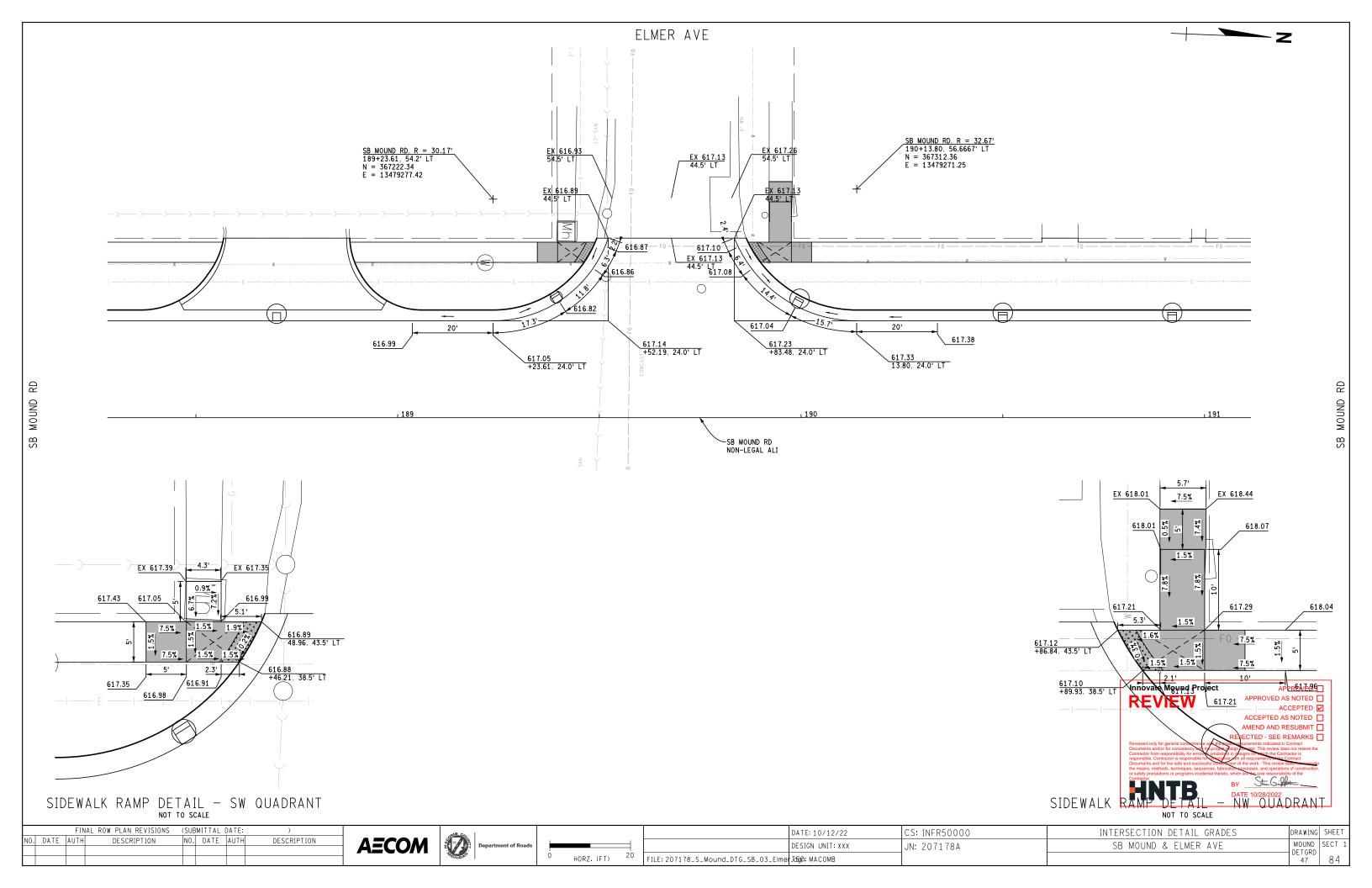
By

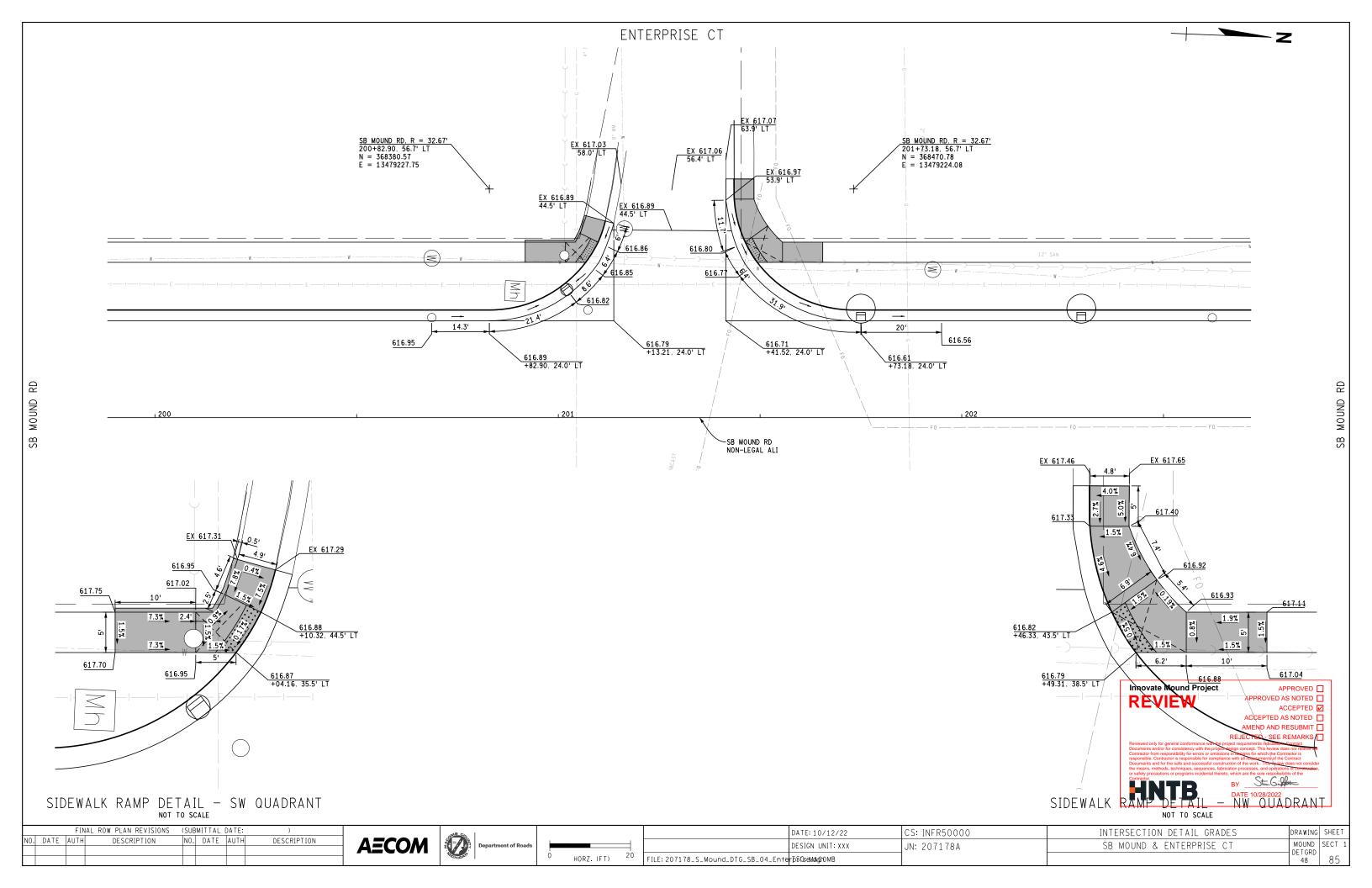
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)		DATE: 10/12/22 CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING SHEE
NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION	AECOM Department of Roads	DESIGN UNIT: XXX JN: 207178A	NB MOUND & 15 MILE RD	MOUND SECT
	0 HORZ. (FT) 10	FILE: 207178 S Mound DTG NB 14A 15 MS&CHMACOMB		DETGRD 80

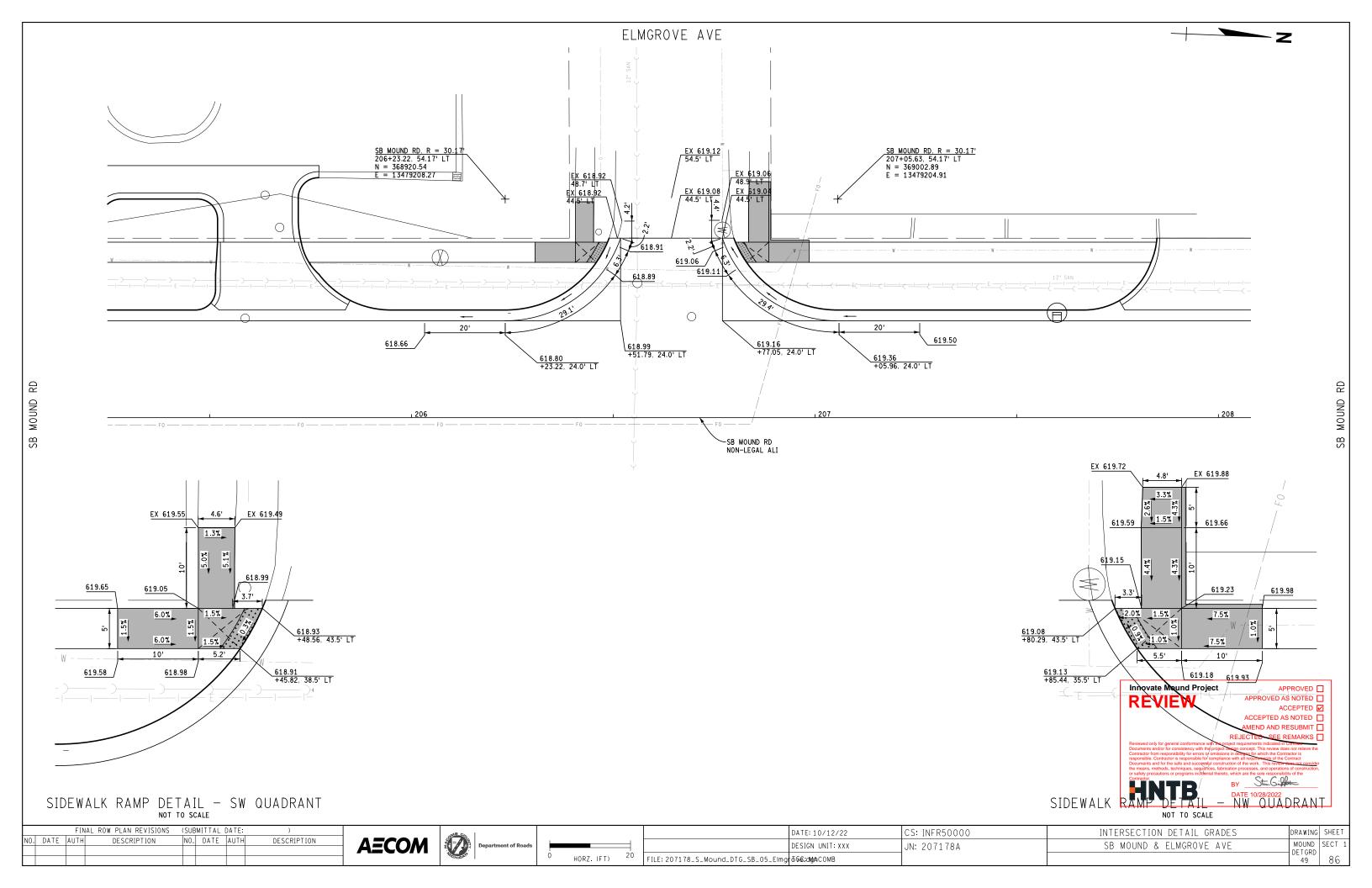


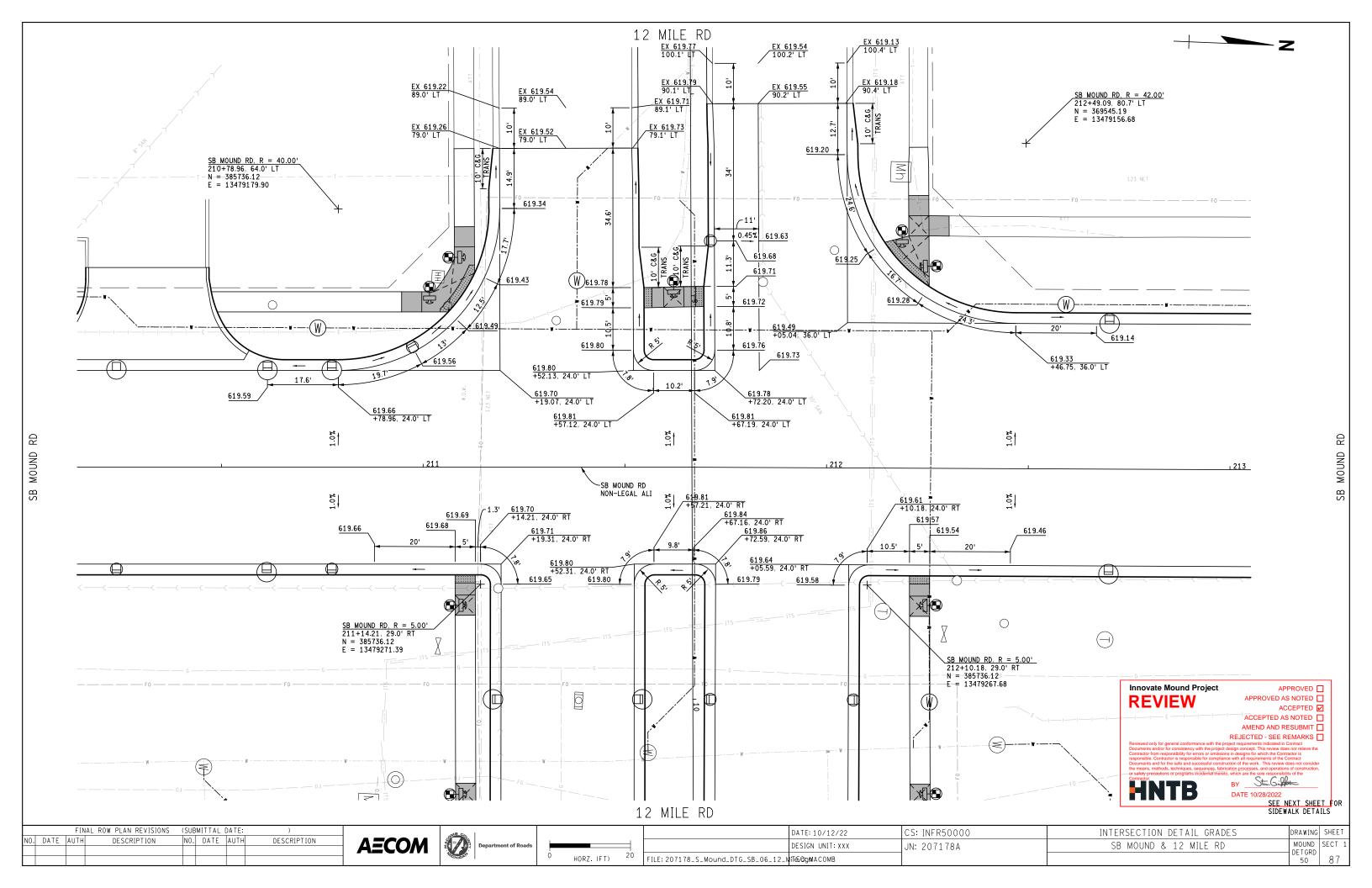


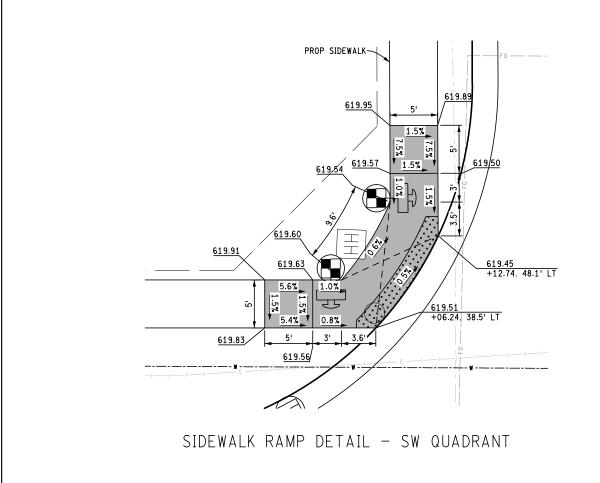


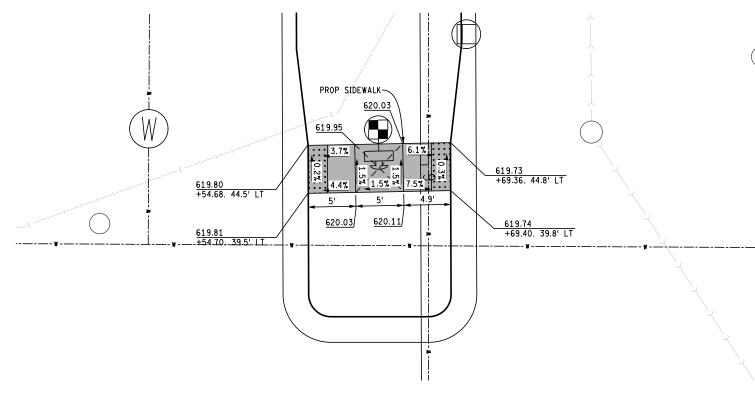




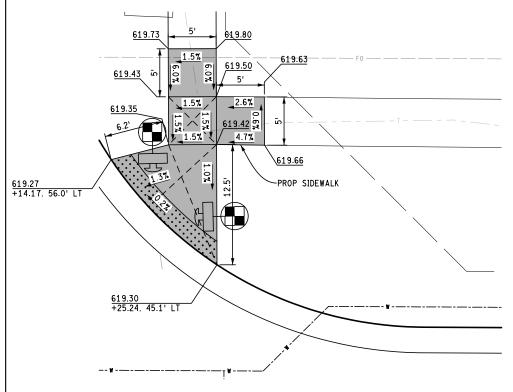




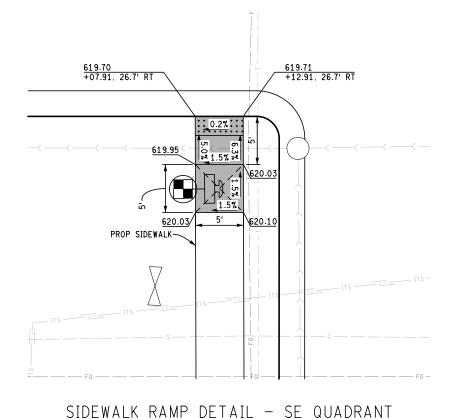


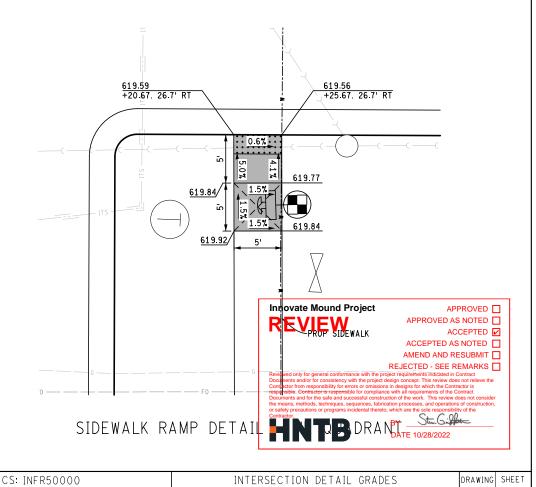


SIDEWALK RAMP DETAIL - CENTER QUADRANT



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:





SIDEWALK RAMP DETAIL - NW QUADRANT

DESCRIPTION

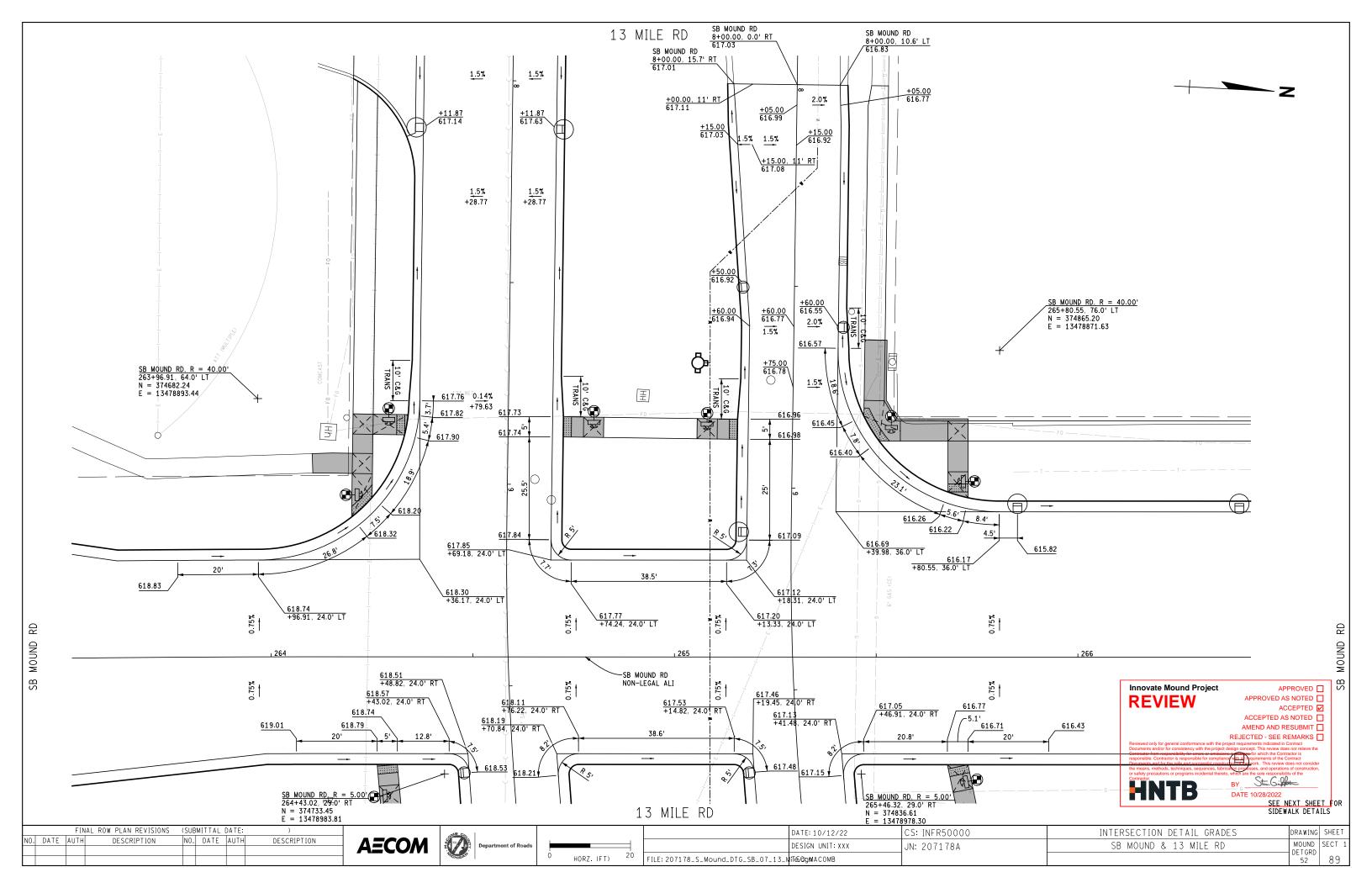
A**E**COM

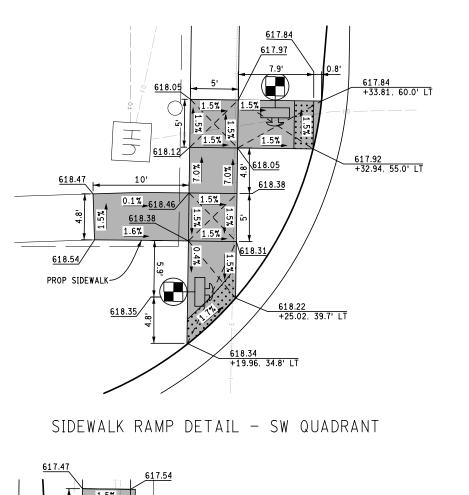
M.	Z	Department of Roads
----	---	---------------------

		=	
0	HORZ. (FT)	10	FILE: 20

	DATE: 10/12/22	CS:	INFR5000
	DESIGN UNIT: XXX	JN:	207178A
207178_S_Mound_DTG_SB_06A_12_	Mi36€:dMA COMB		

INTERSECTION DETAIL GRADES	DRAWING	SHEET
SB MOUND & 12 MILE RD	MOUND DETGRD	SECT 1
	51	88



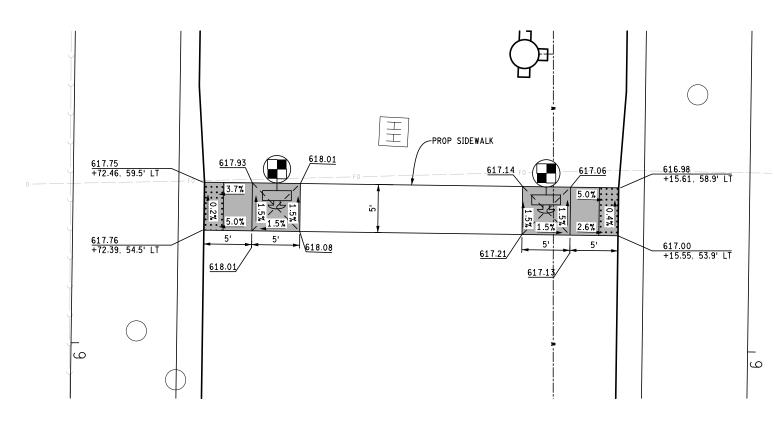


FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:

NO. DATE AUTH

DESCRIPTION

AECOM



SIDEWALK RAMP DETAIL - CENTER QUADRANT

CS: INFR50000

JN: 207178A

DATE: 10/12/22

DESIGN UNIT: XXX

FILE: 207178_S_Mound_DTG_SB_07A_13_MISE.dbyACOMB

APPROVED

DRAWING SHEET

MOUND SECT 1

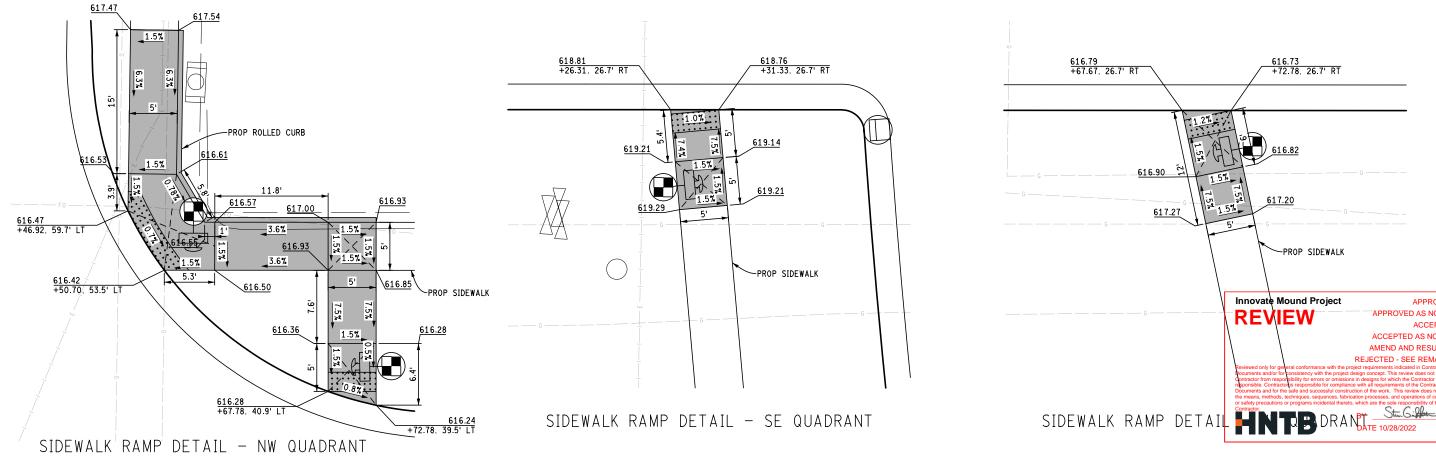
DETGRD 53 90

APPROVED AS NOTED ACCEPTED ACCEPTED AS NOTED

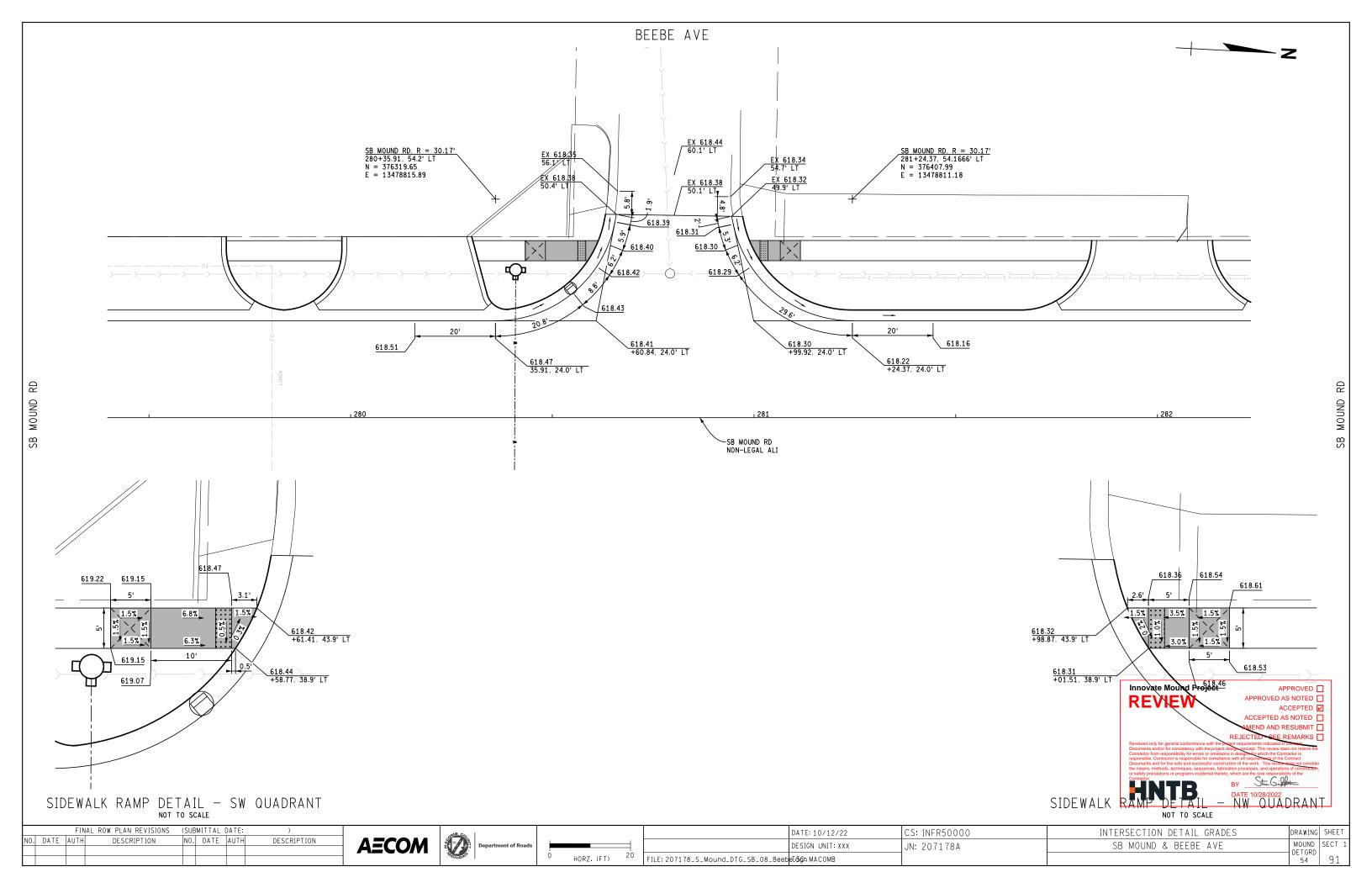
AMEND AND RESUBMIT REJECTED - SEE REMARKS

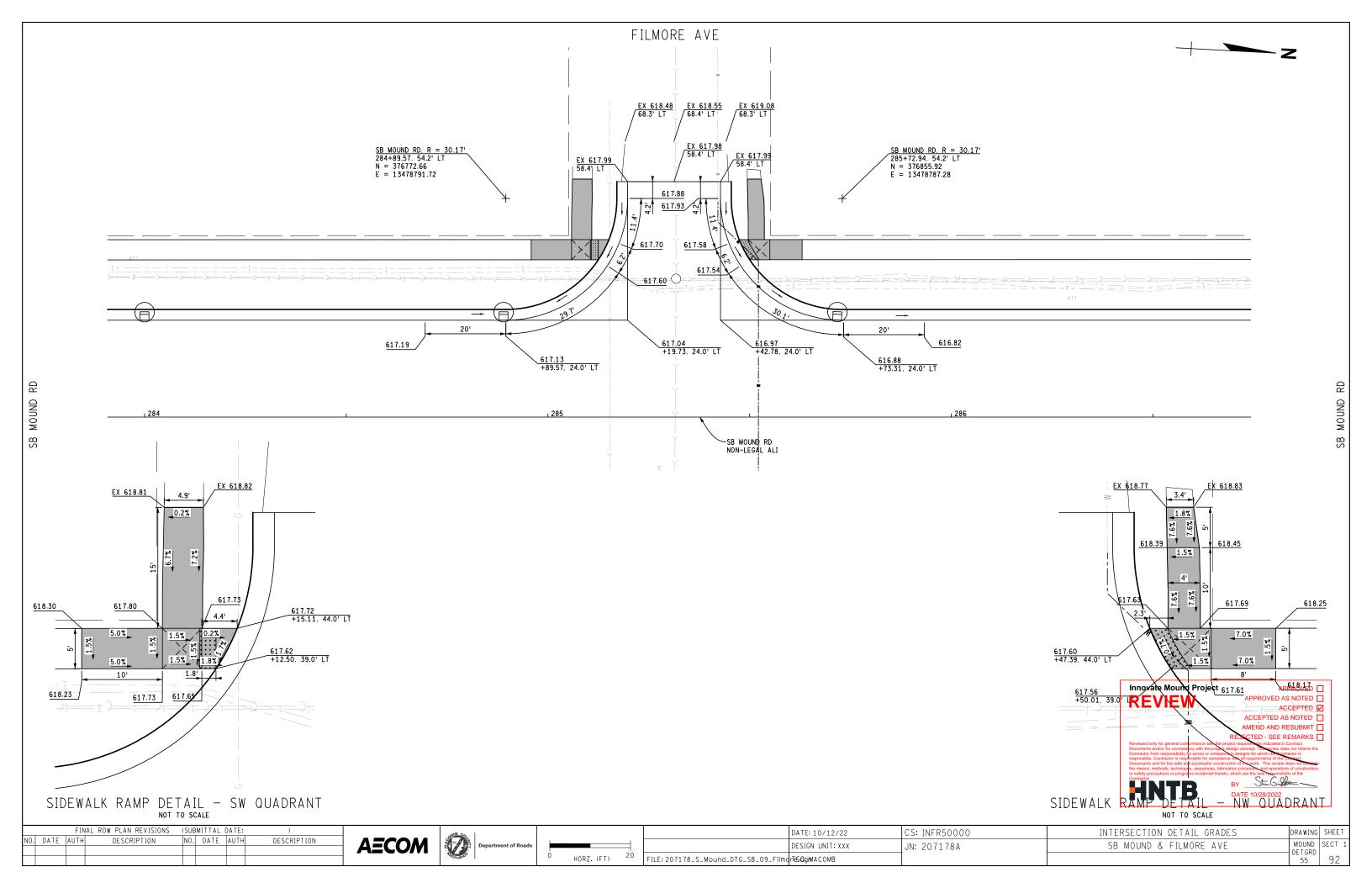
INTERSECTION DETAIL GRADES

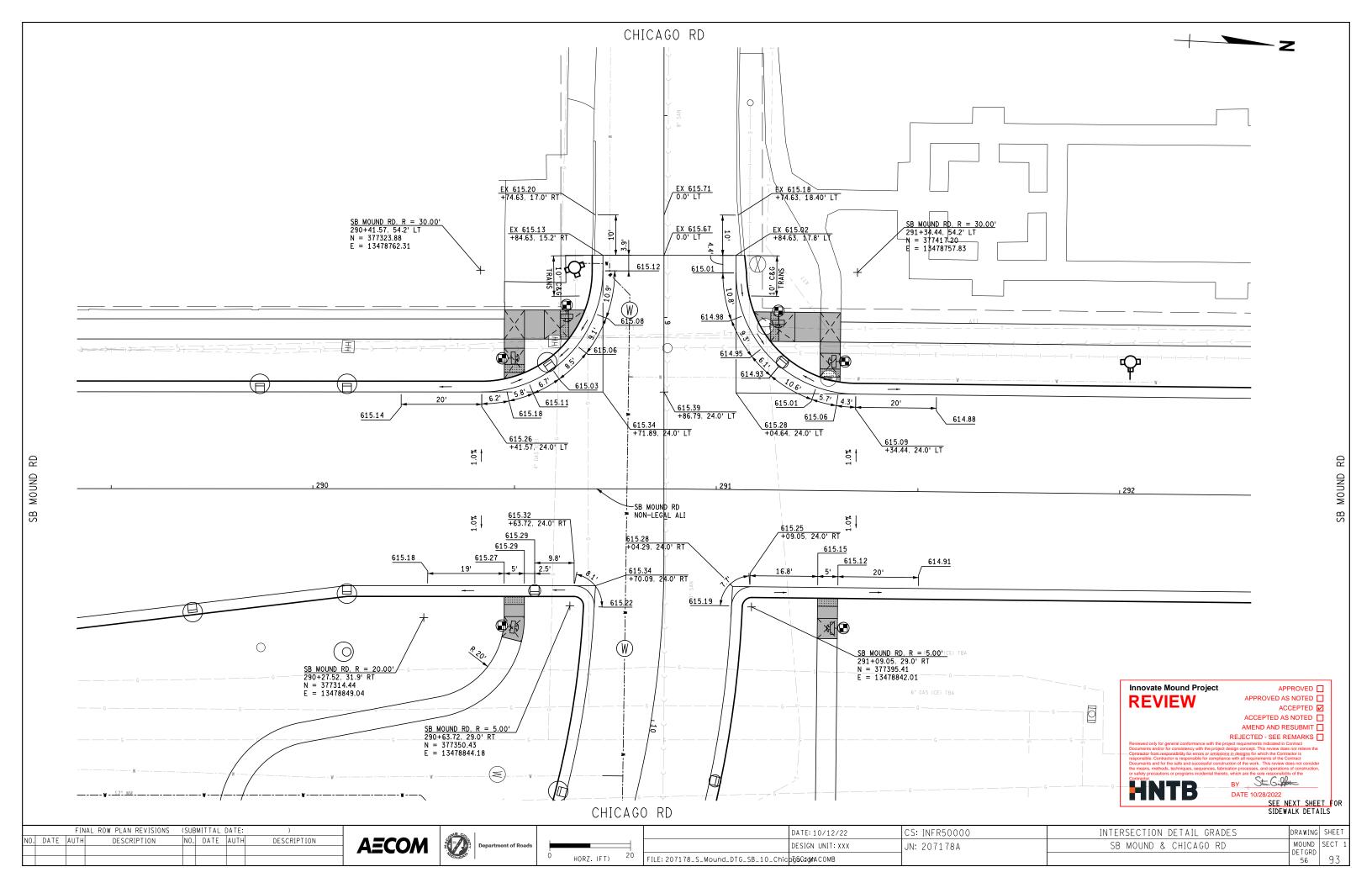
SB MOUND & 13 MILE RD



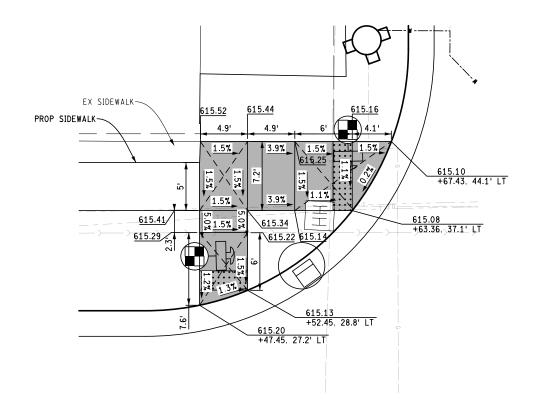
HORZ. (FT)



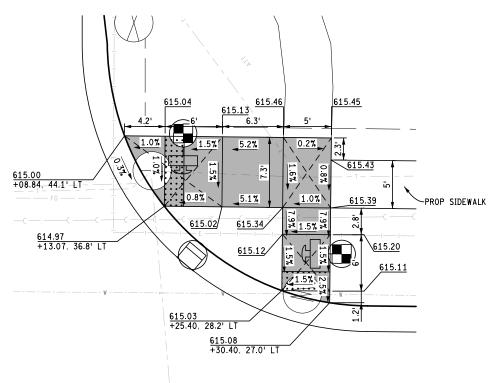




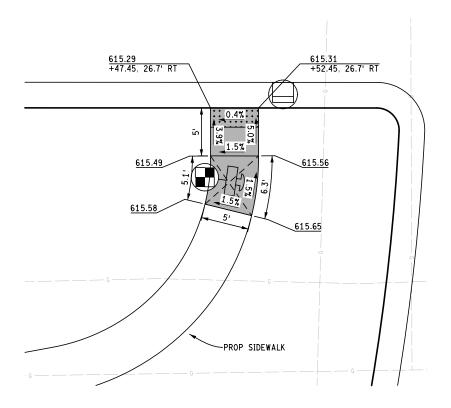




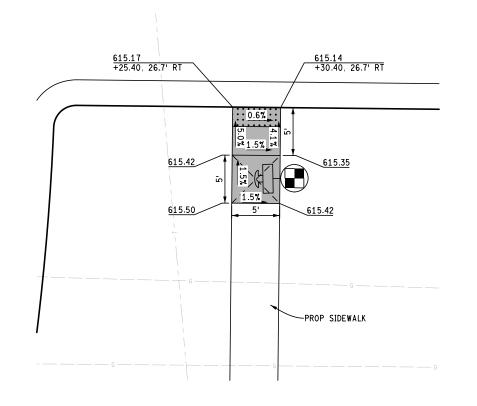
SIDEWALK RAMP DETAIL - SW QUADRANT



SIDEWALK RAMP DETAIL - NW QUADRANT



SIDEWALK RAMP DETAIL - SE QUADRANT



SIDEWALK RAMP DETAIL - NE QUADRANT

Innovate Mound Project

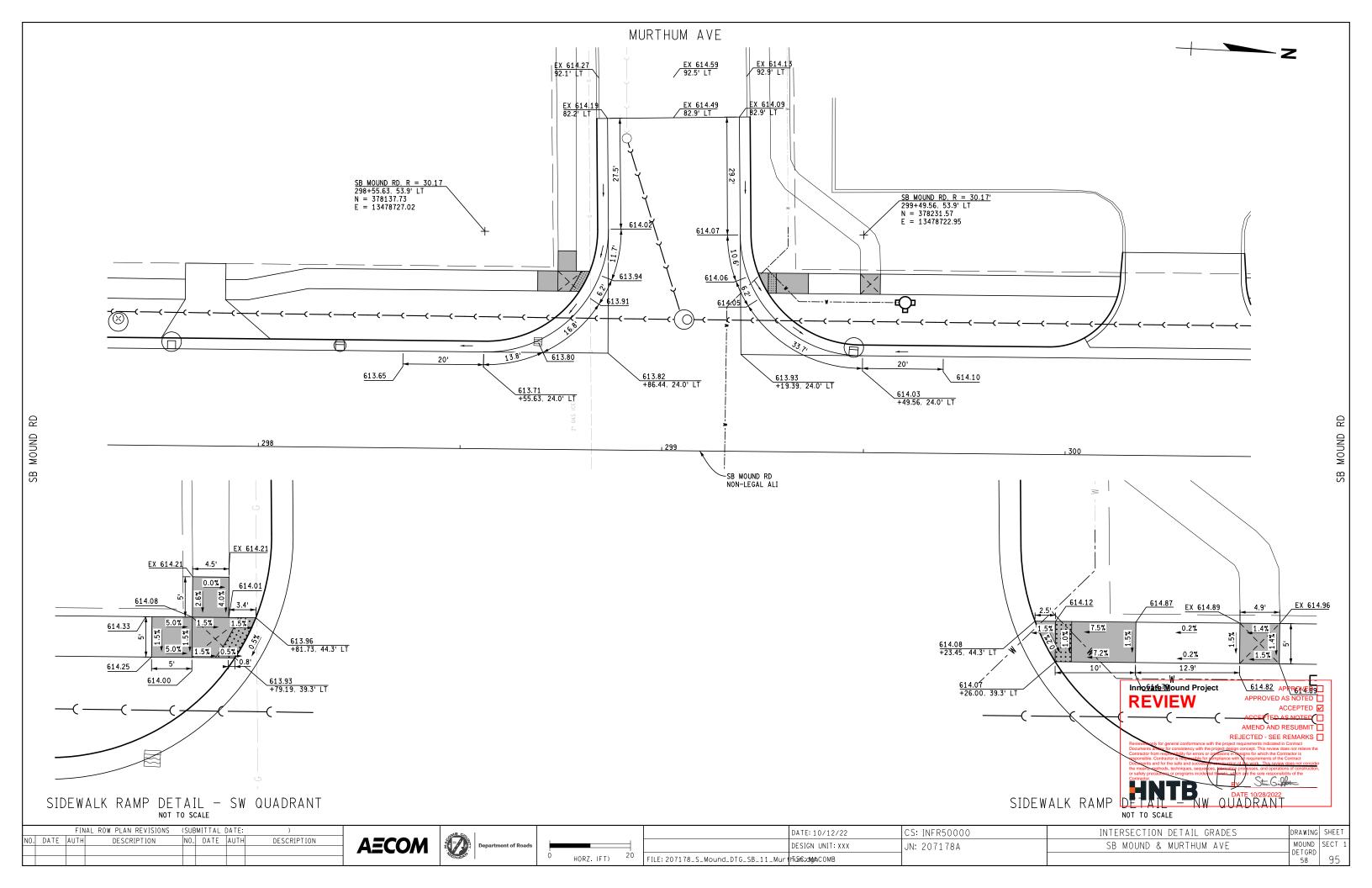
REVIEW

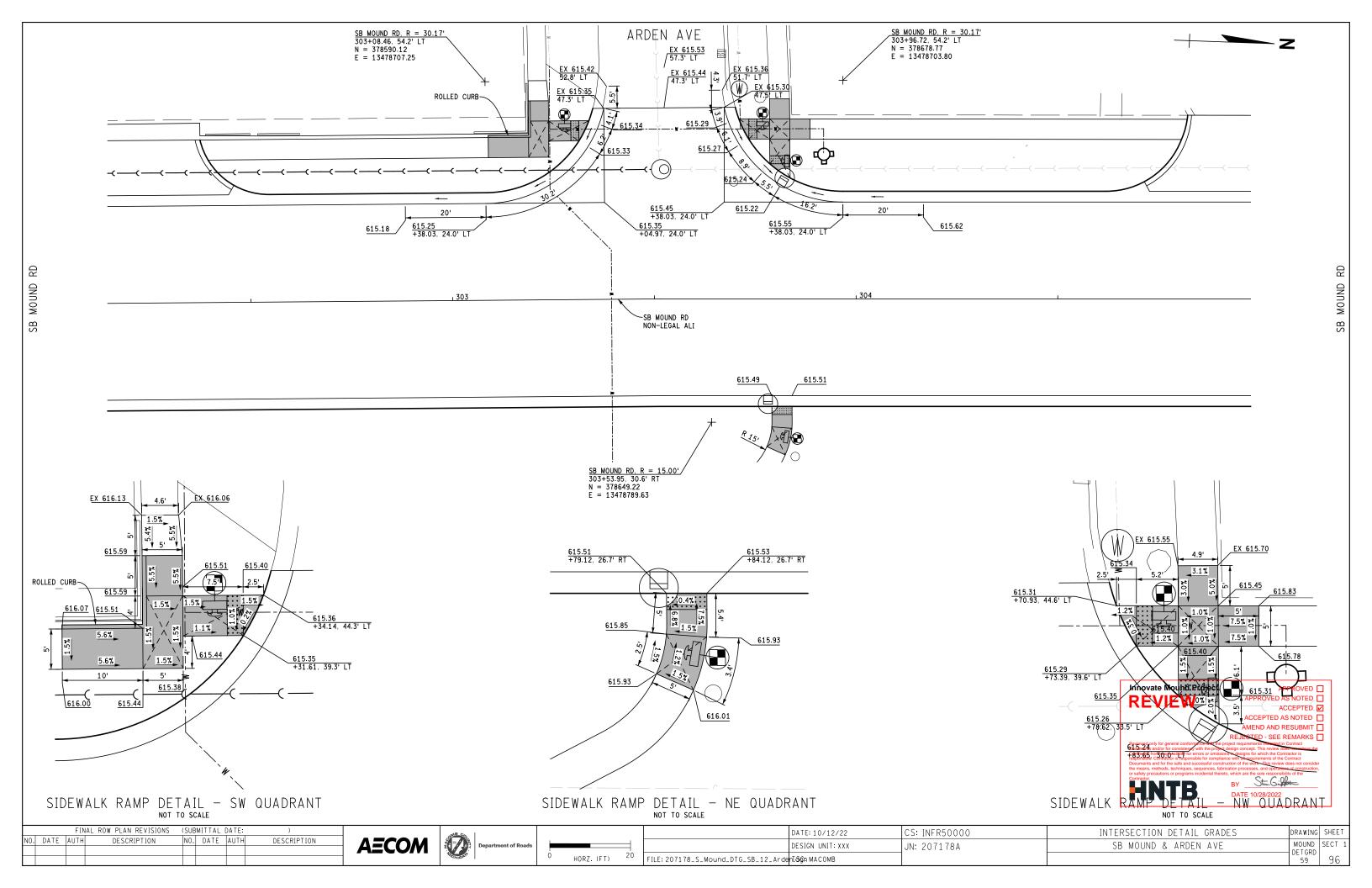
APPROVED AS NOTED

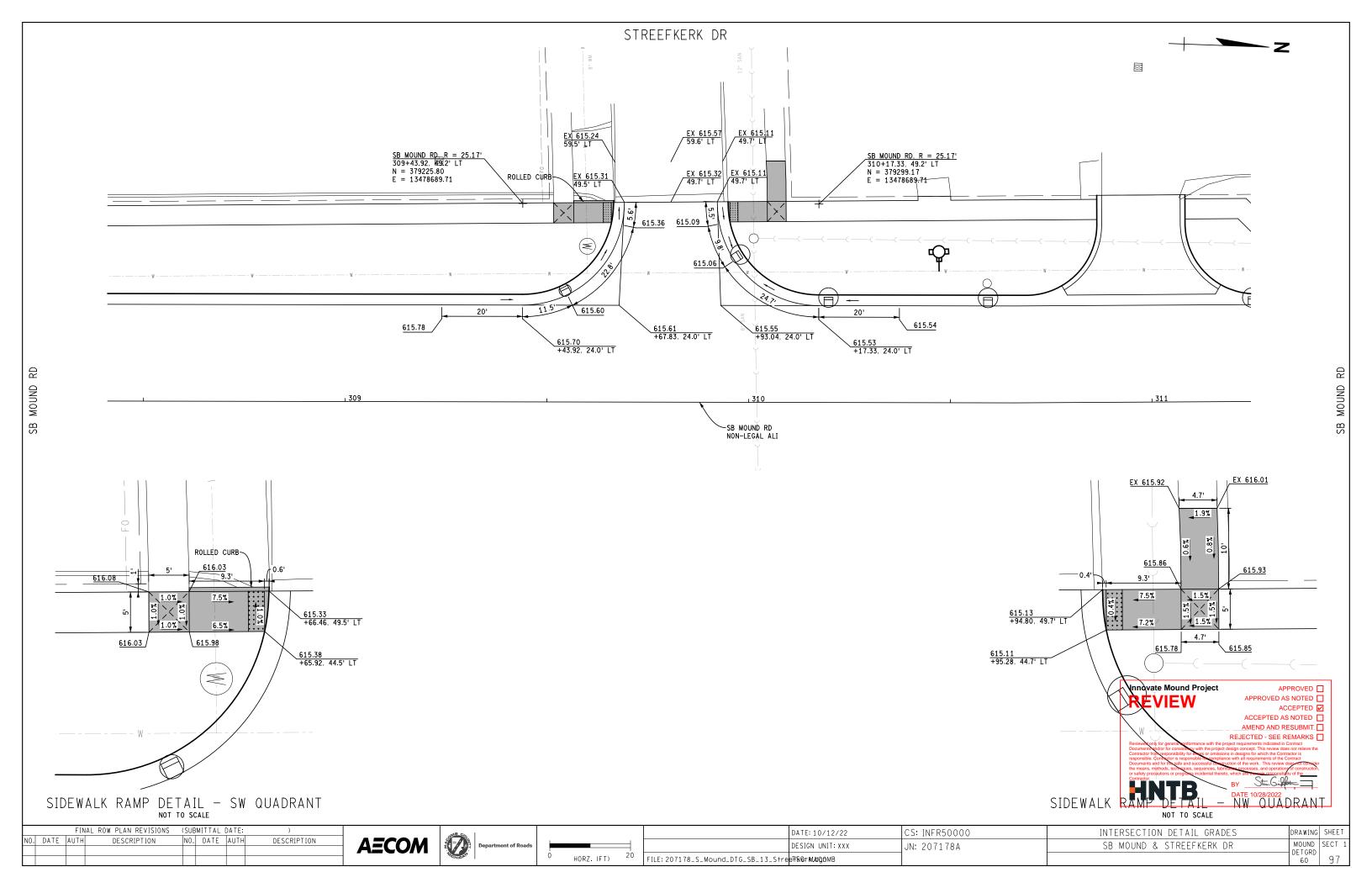
ACCEPTED ACCEPT

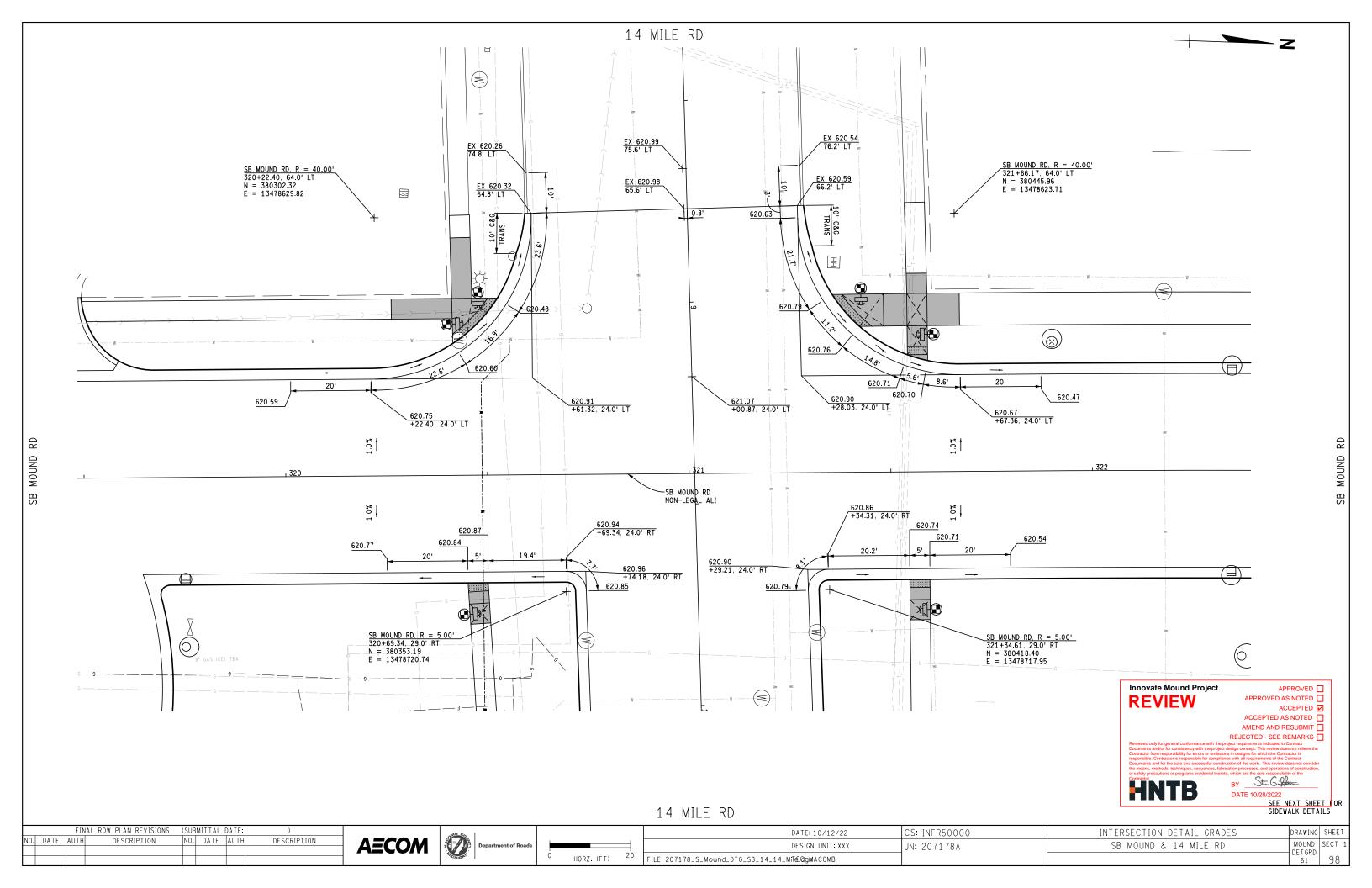
HNTB

No. 0.75	FINAL ROW PLAN REVISION	S (SUBMITTAL DATE:)			DATE: 10/12/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING SHEET
NO. DATE A	UTH DESCRIPTION	NO. DATE AUTH	DESCRIPTION	AECOM Departs	nt of Roads	DESIGN UNIT: XXX	JN: 207178A	SB MOUND & CHICAGO RD	MOUND SECT 1
				Michigan	0 HORZ. (FT) 10	FILE: 207178_S_Mound_DTG_SB_10A_Chicogo: dugrC0MB			57 94

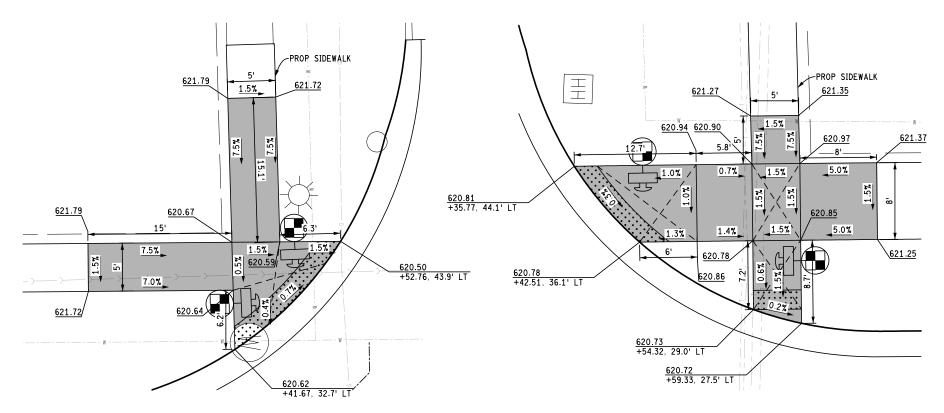






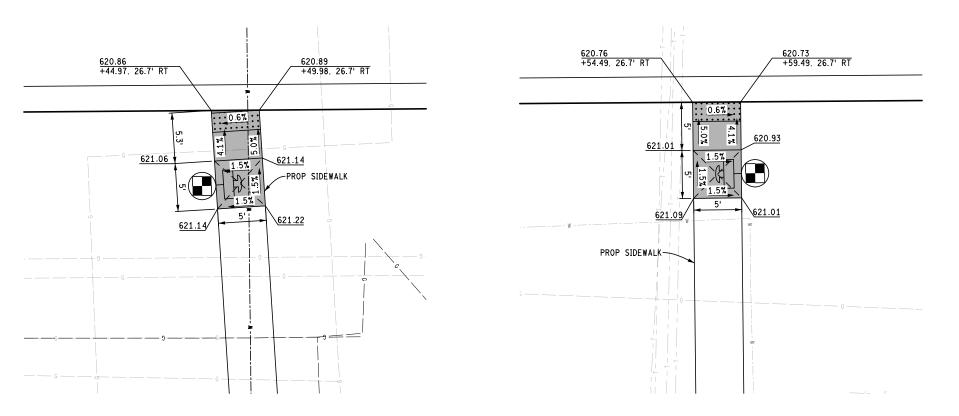






SIDEWALK RAMP DETAIL - SW QUADRANT

SIDEWALK RAMP DETAIL - NW QUADRANT



SIDEWALK RAMP DETAIL - SE QUADRANT

SIDEWALK RAMP DETAIL - NE QUADRANT

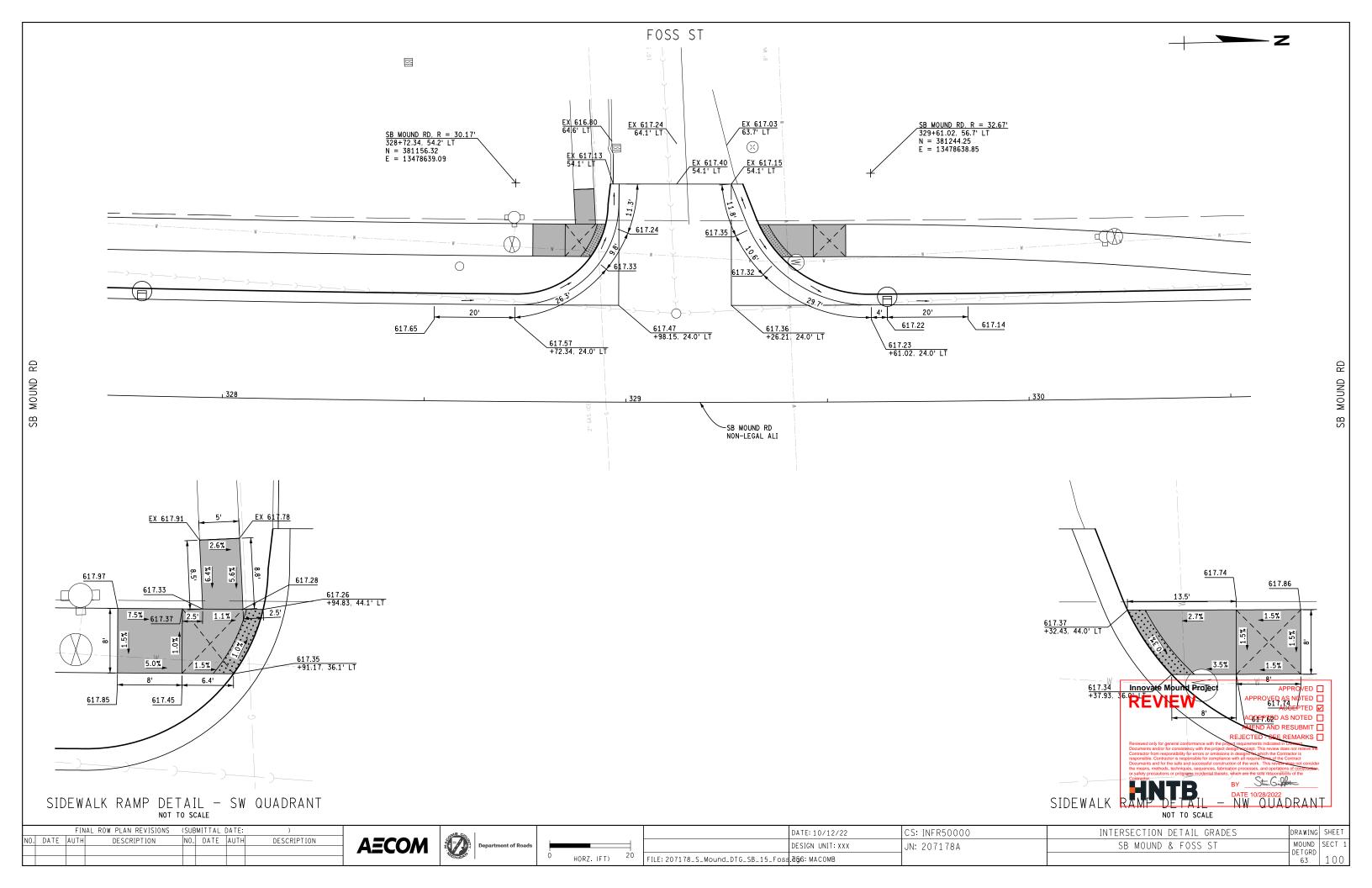
Innovate Mound Project **REVIEW**

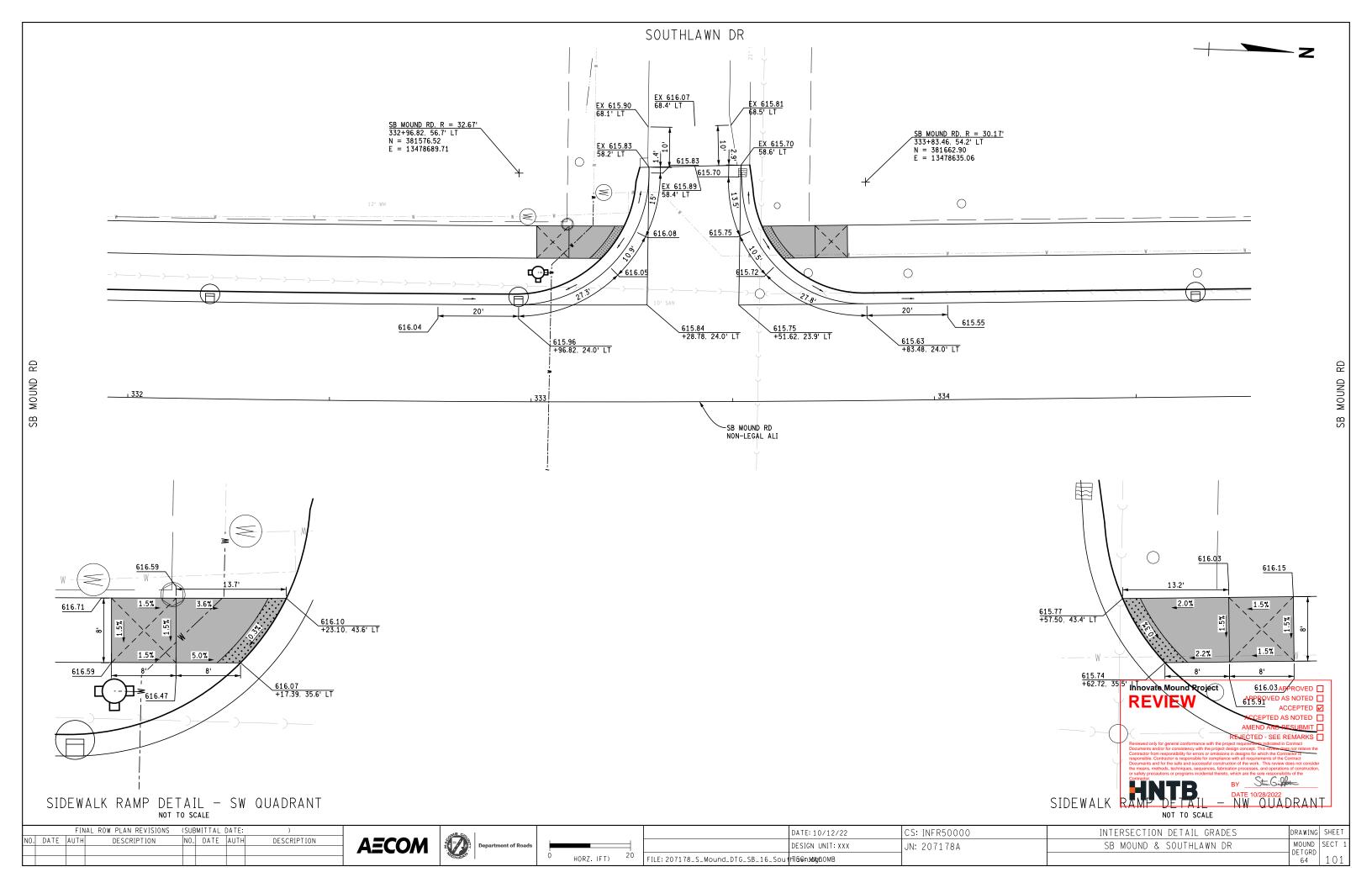
APPROVED ☐
APPROVED AS NOTED ☐
ACCEPTED ☑
ACCEPTED AS NOTED ☐
AMEND AND RESUBMIT ☐
REJECTED - SEE REMARKS ☐
roject requirements indicated in Contract

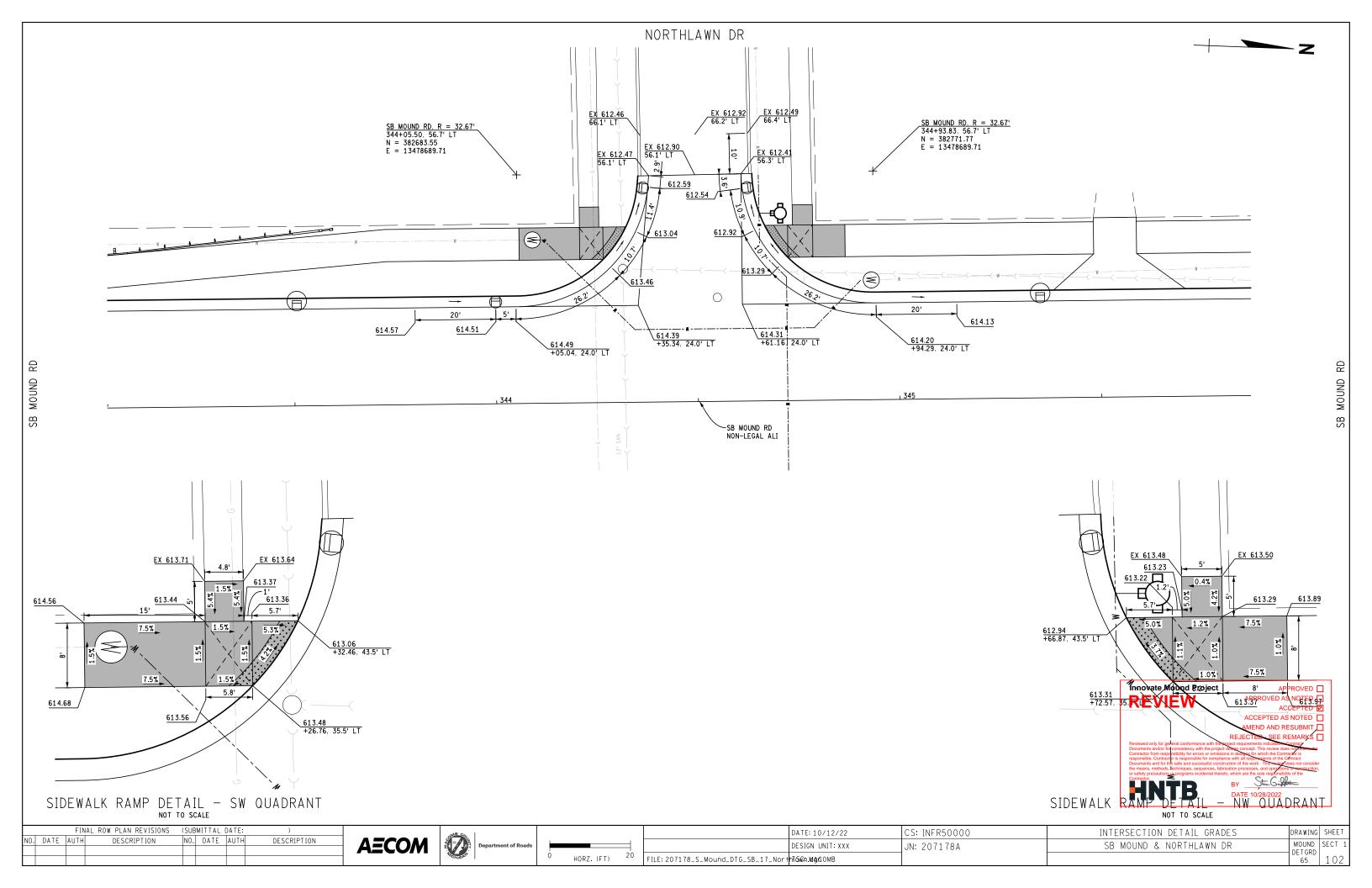
BY Standard Transport of the

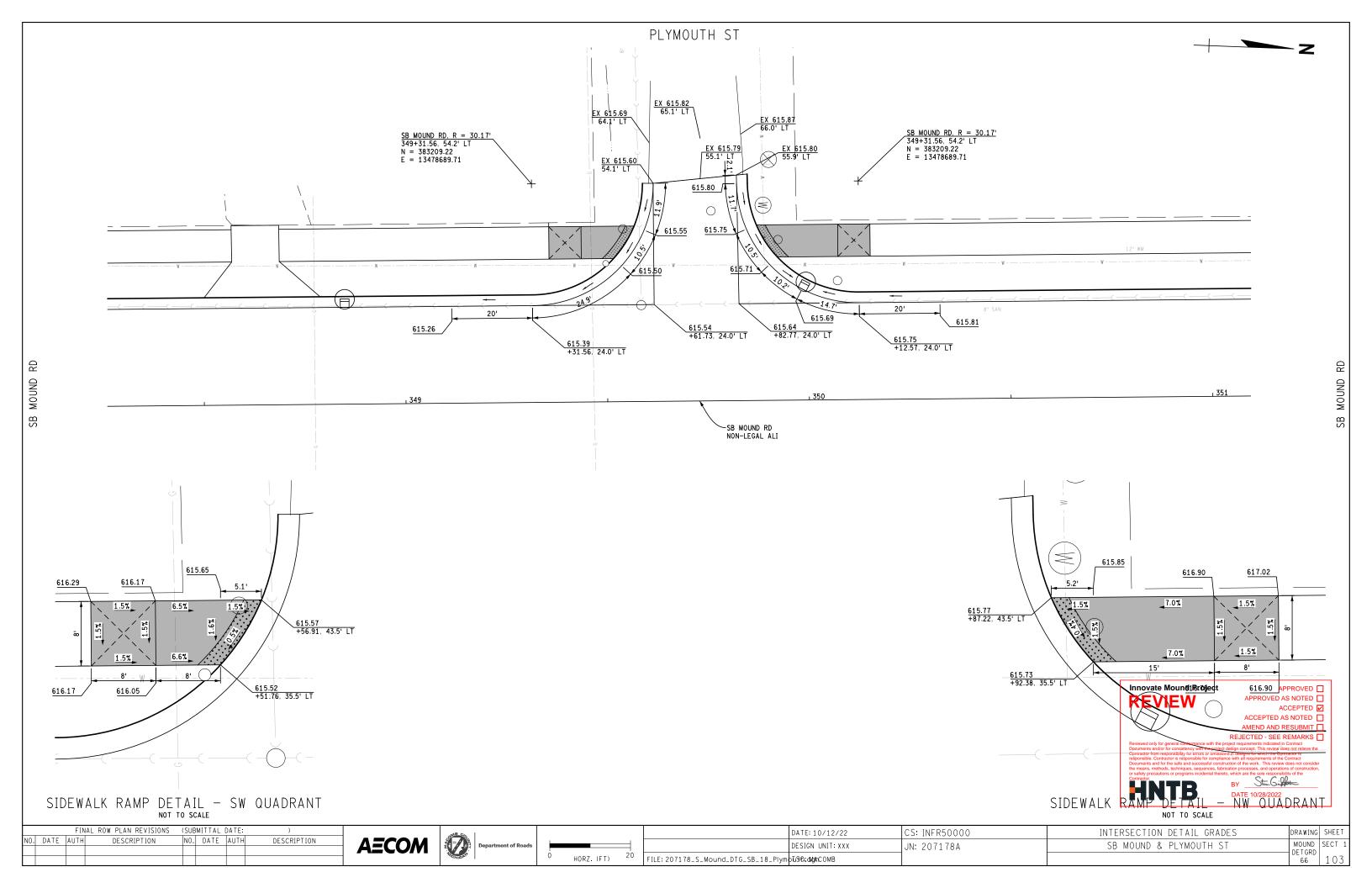


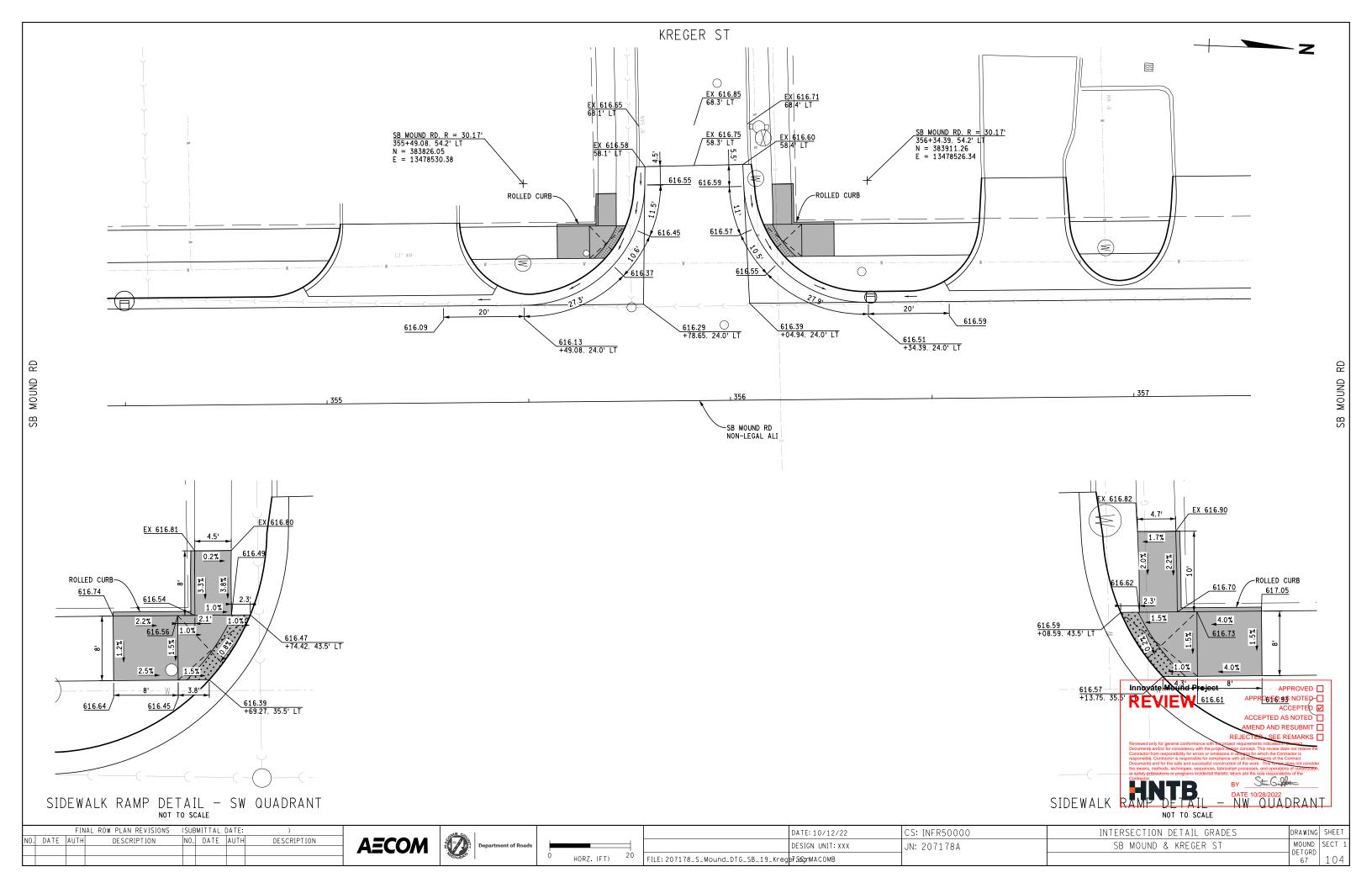
L	FINAL ROW PLAN REVISIONS	(SUBMITTAL DATE:)		OMB CO.			DATE: 10/12/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING	, SHEET
NO. DATE	AUTH DESCRIPTION	NO. DATE AUTH	DESCRIPTION	AECOM	Department of Roads			DESIGN UNIT: XXX	JN: 207178A	SB MOUND & 14 MILE RD	MOUND DETGRD	SECT 1
				7	MICHIGAN	O HORZ. (FT) 10	FILE: 207178_S_Mound_DTG_SB_14A_14	NI SE dIJA COMB			62	99

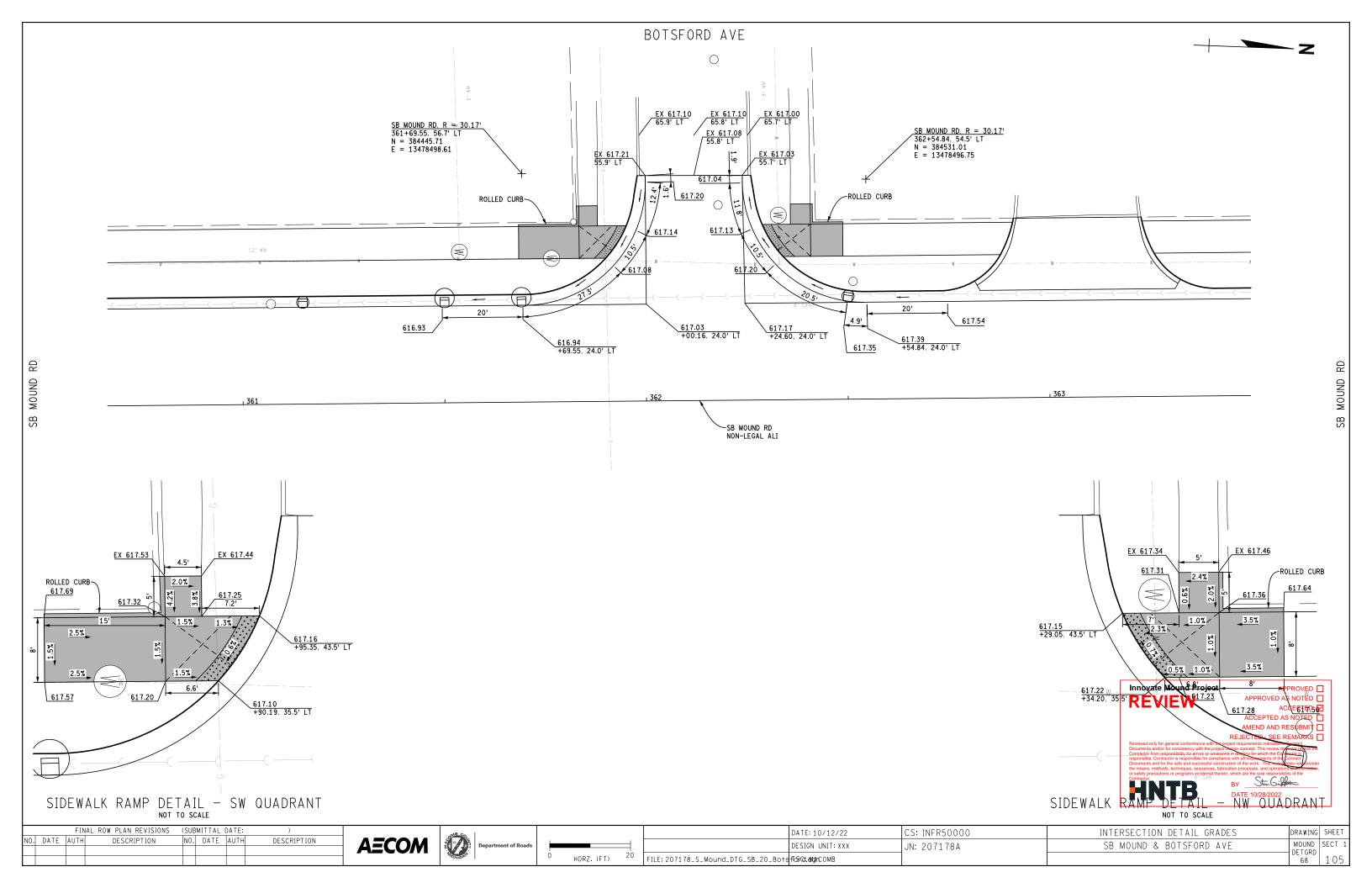


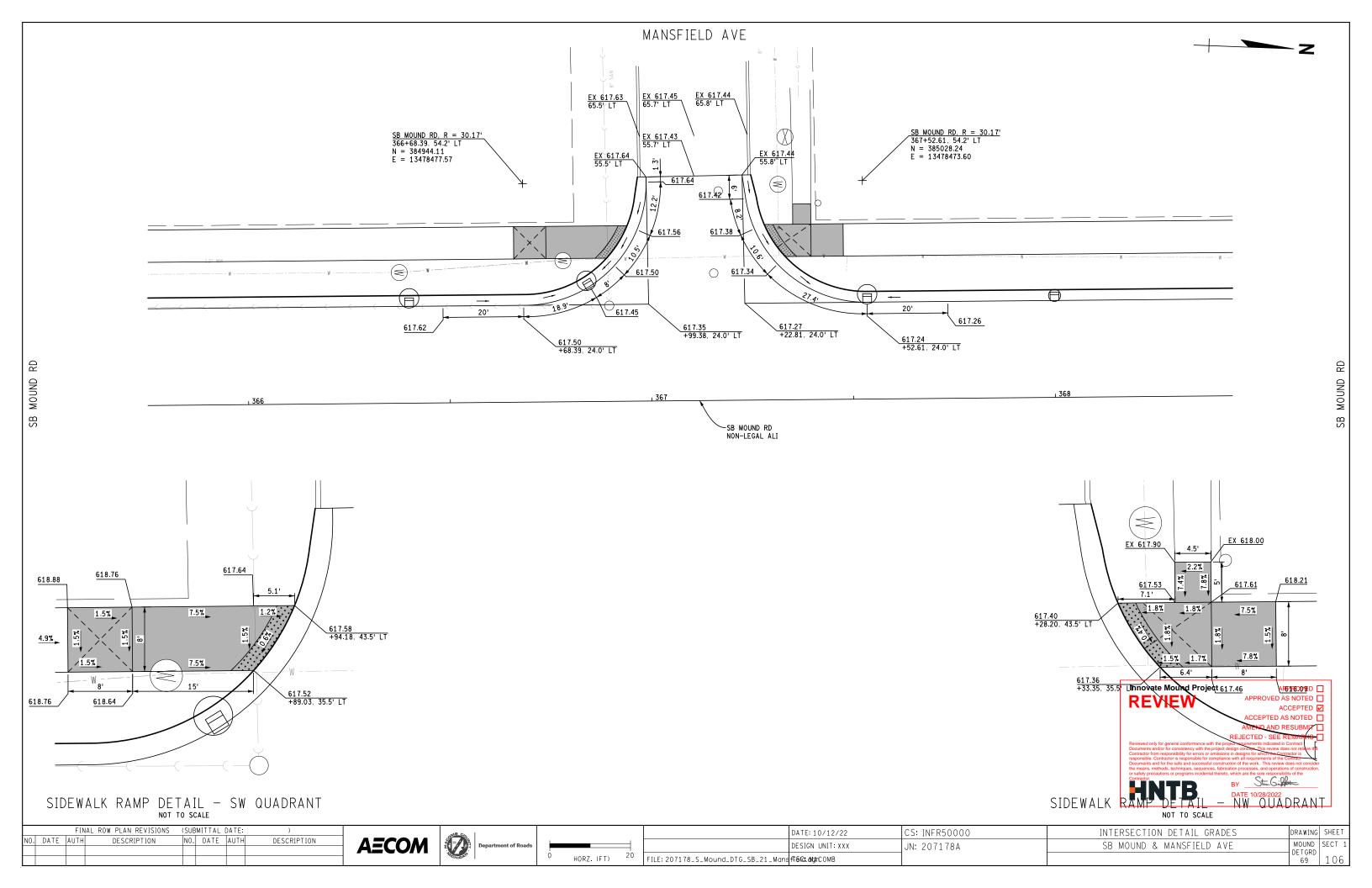


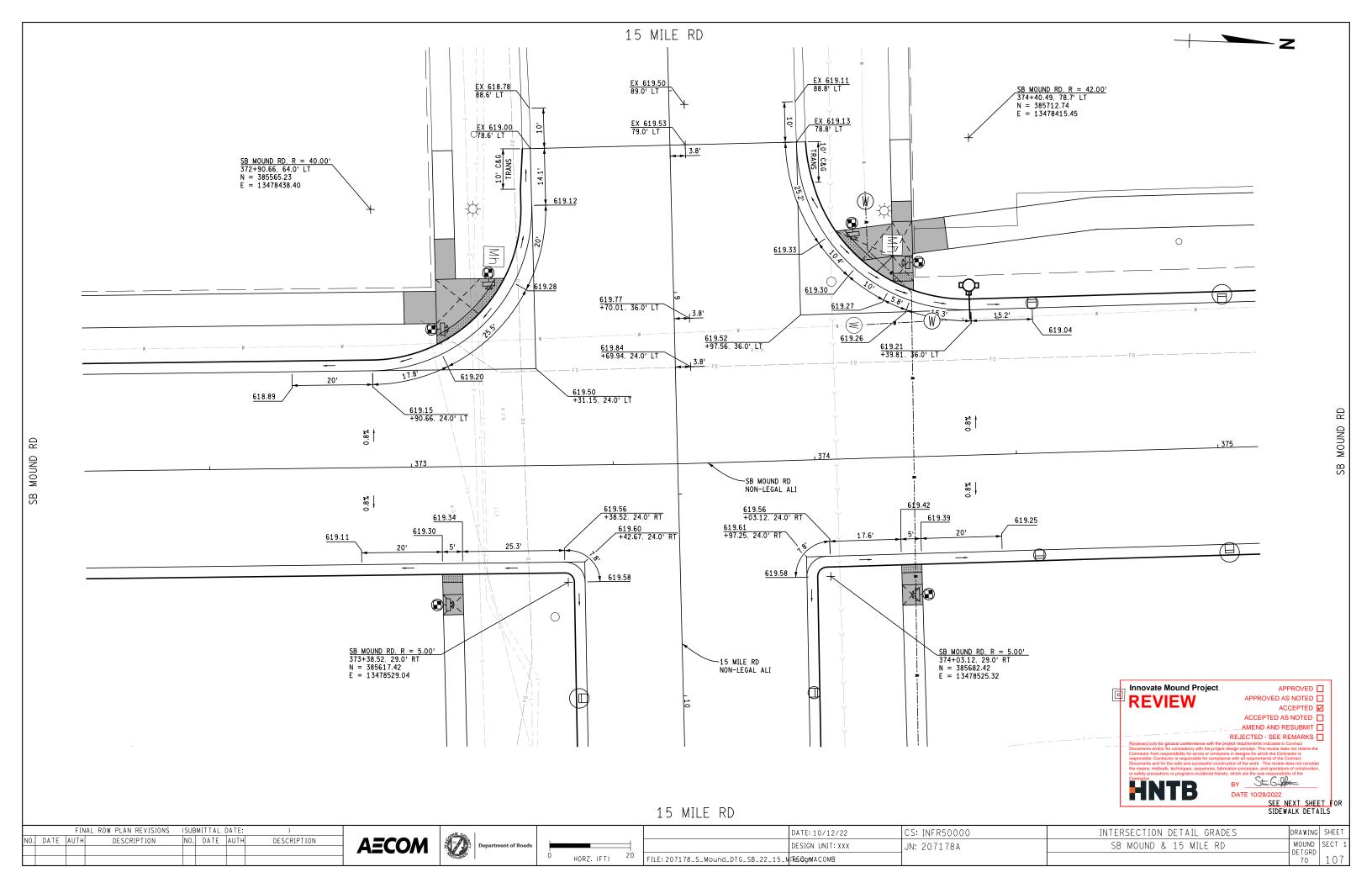


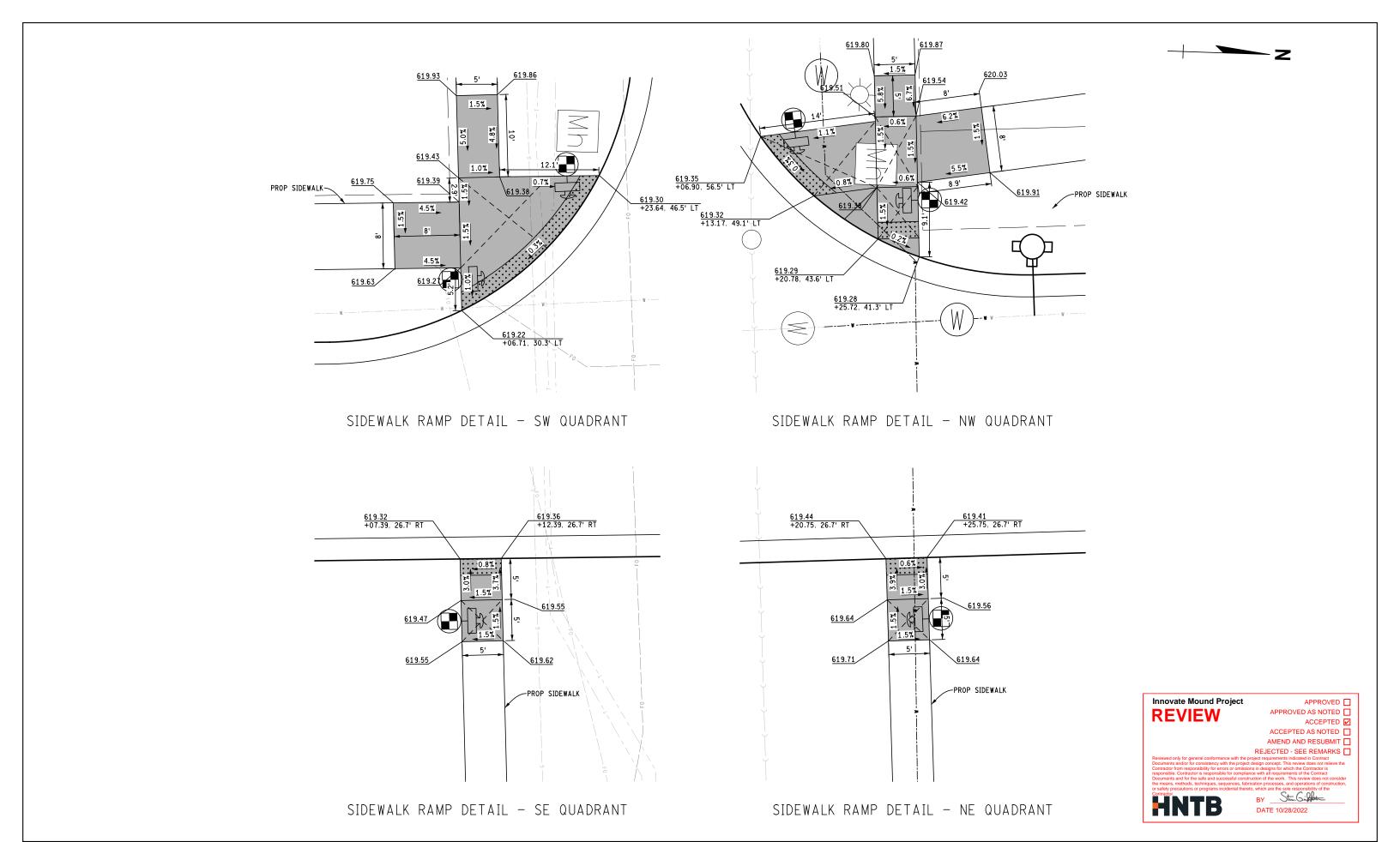






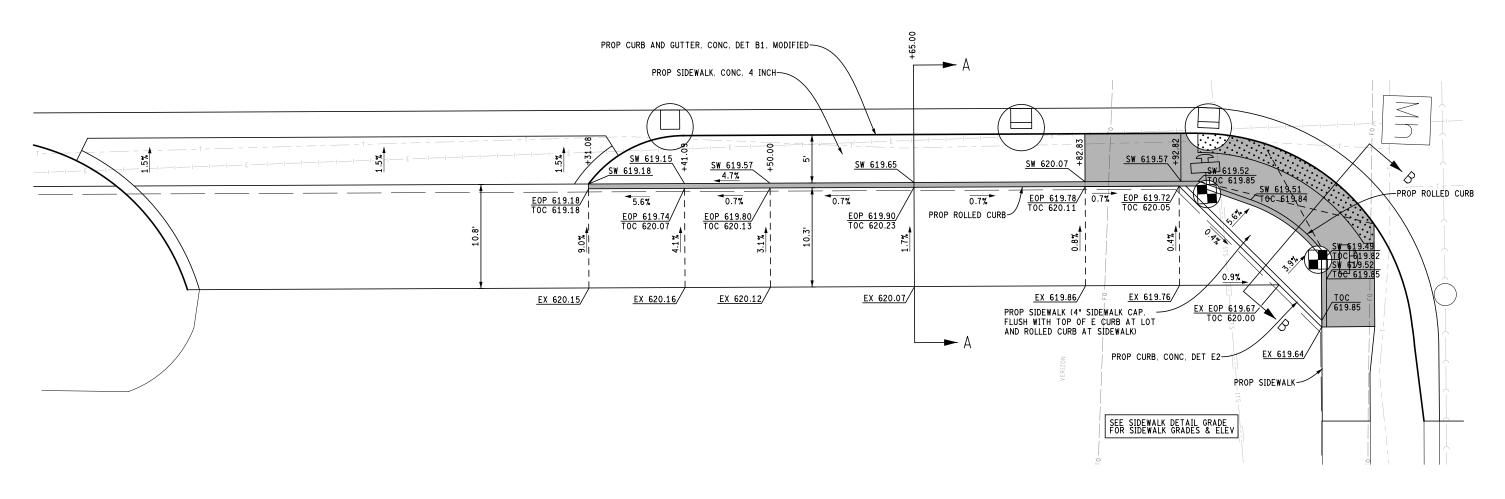






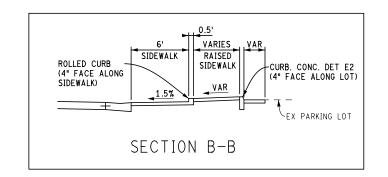
	FINAL	L ROW PLAN REVISIONS					DATE: 10/12/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING SHEET
NO). DATE AUTH	DESCRIPTION	NO. DATE A	JTH DESCRIPTI	AECUIVI EN JUR Depar	ment of Roads	DESIGN UNIT: XXX	JN: 207178A	SB MOUND & 15 MILE RD	MOUND SECT 1
					Morno At	0 HORZ. (FT) 10	FILE: 207178_S_Mound_DTG_SB_22A_15_MissCalynaCOMB			71 108





SIDEWALK/DRIVEWAY DETAIL - NB MOUND RD & 12 MILE SE QUADRANT

10.3 SIDEWALK PARKING LOT -ROLLED CURB (4" FACE ALONG LOT) EX PARKING LOT-SECTION A-A



<u>LEGEND</u>

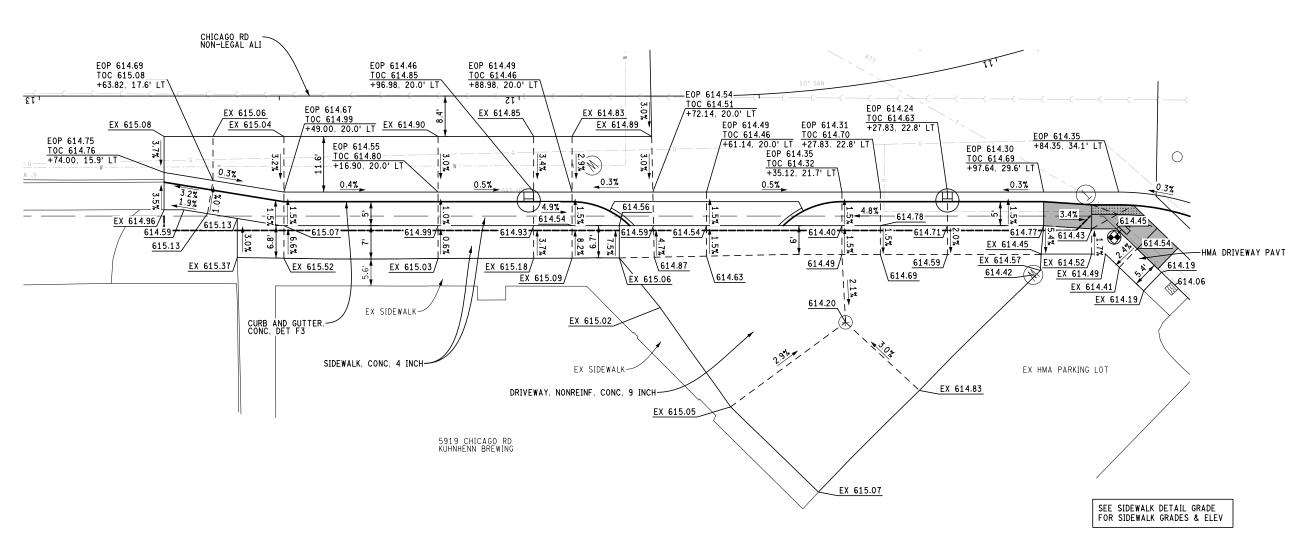
SW - SIDEWALK ELEV EOP - EDGE OF PARKING LOT ELEV

TOC - TOP OF ROLLED CURB/E CURB ELEV



	FINAL ROW PLAN REVISIONS)		OME CO.			DATE: 10/12/22	CS: INFR50000	DETAIL GRADE	DRAWING	, SHEET
NO. DATE	AUTH DESCRIPTION	NO. DATE	AUTH	DESCRIPTION	AECOM		Department of Roads		DESIGN UNIT: XXX	JN: 207178A	SKIPS AUTO ER DRIVEWAY AND PARKING LOT	MOUND DETGRD	SECT 1
					7 12 3 2 7 1	MICHIGA		FILE: 207178_S_Mound_DWY_DTG_01.dgr	TSC: MACOMB			72	109





DRIVEWAY DETAIL - NE QUADRANT CHICAGO RD & NB MOUND RD



	FINAL ROW PLAN REVISIONS (SUBMITT)	L DATE:)		We co			DATE: 10/12/22	CS: INFR50000	DETAIL GRADE	DRAWING	SHEET
N	D. DATE AUTH DESCRIPTION NO. DAT	AUTH	DESCRIPTION	⊢ Δ <i>ΞC</i> OM	Department of Roads			DESIGN UNIT: XXX	JN: 207178A	CHICAGO RD AND DRIVEWAY	MOUND :	SECT 1
					MICHIGAD I	O HORZ. (FT)	FILE: 207178_S_Mound_DWY_DTG_02.dgn	TSC: MACOMB	1		DETGRD 73	110



APPROVED APPROVED APPROVED APPROVED AS NOTED ACCEPTED AS NOTED AMEND AND RESUBMIT REJECTED - SEE REMARKS or order requirements indicated in Contract

SB MOUND RD

by which are the sole responsibility of the

		FIN	NAL ROW PLAN REVISIONS	(SUE	BMITTAL [DATE:)
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

SB MOUND RD



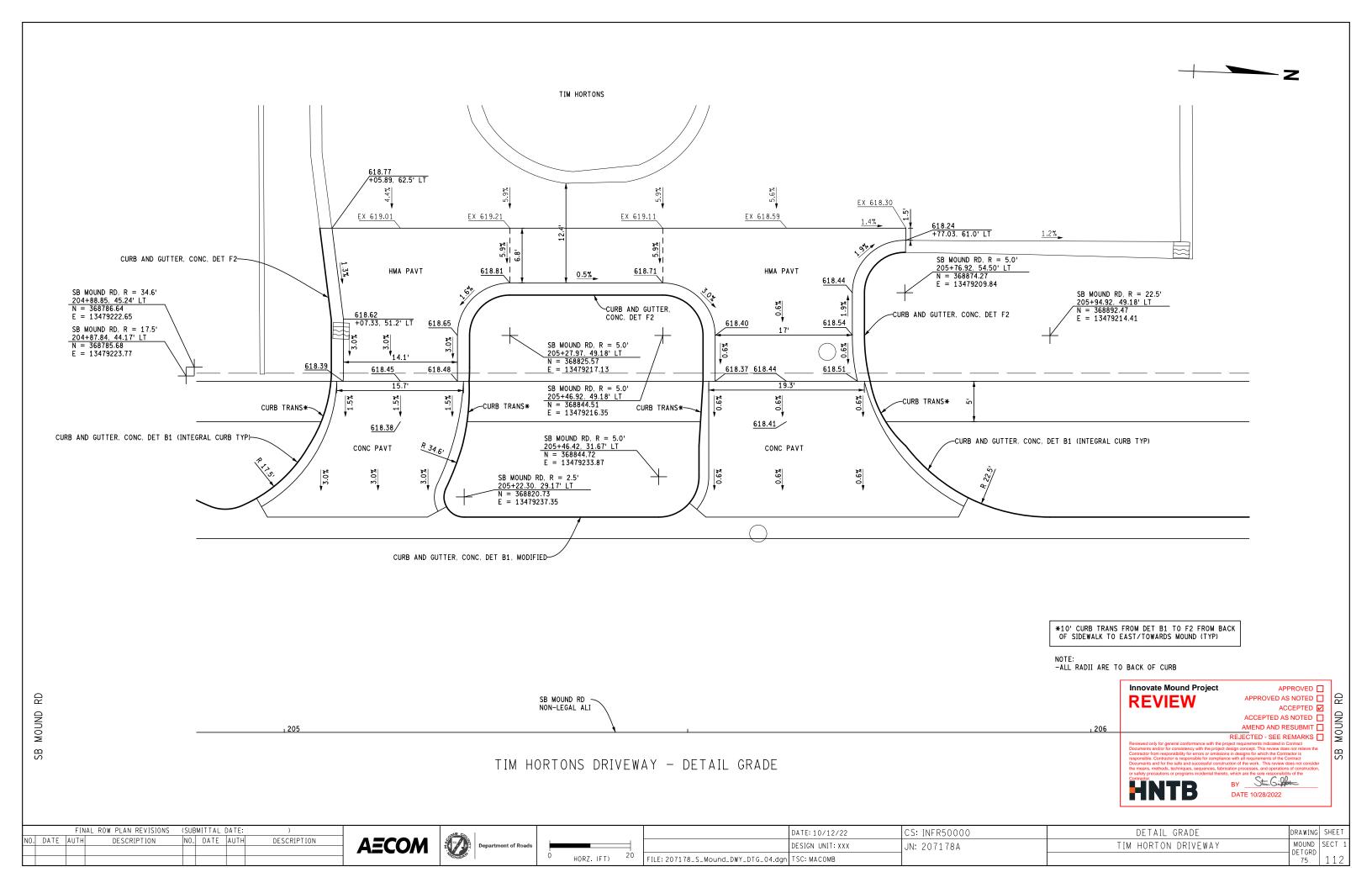


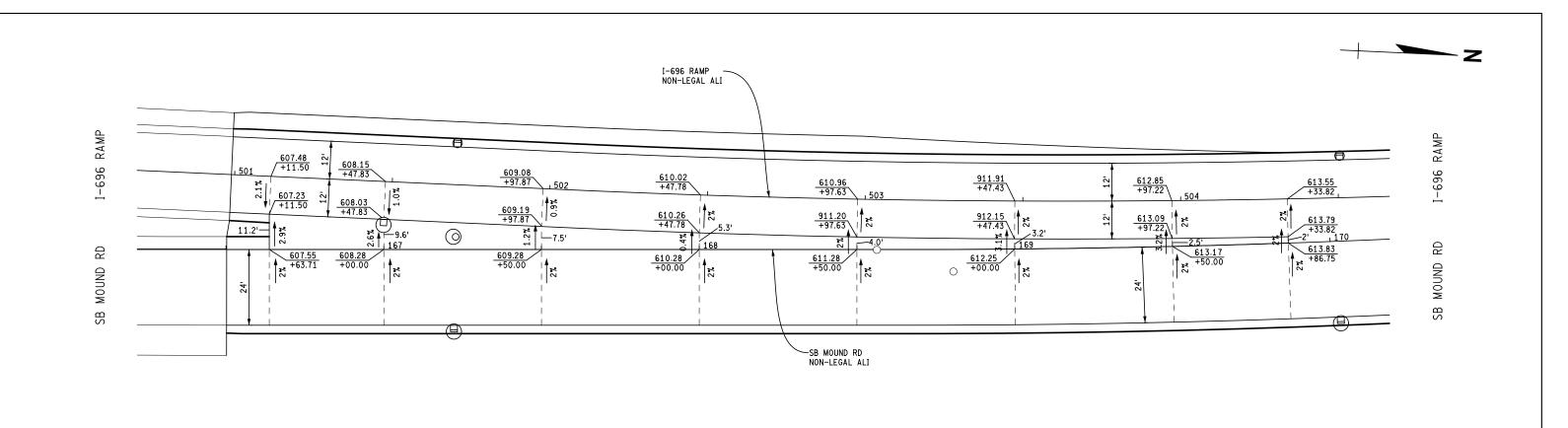
0	HORZ. (FT)	10

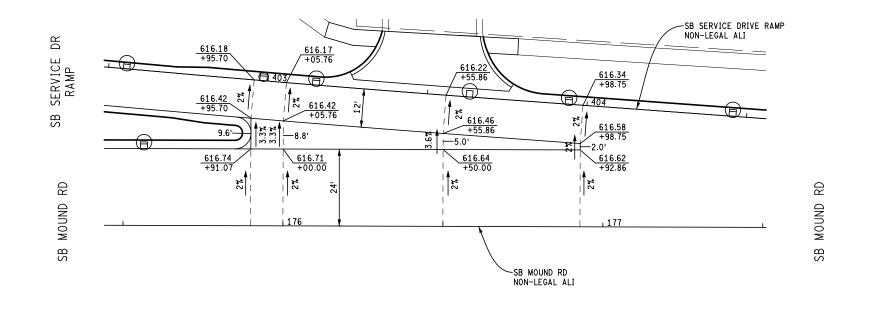
HORZ. (FT)	10	FI

	DATE: 10/12/22	CS: INFR50000
	DESIGN UNIT: XXX	JN: 207178A
FILE: 207178_S_Mound_DWY_DTG_03.dgn	TSC: MACOMB	

	DE	TAIL GRADE	DRAWING	SHEET
MOBIL G	SAS	STATION TURN LANE	MOUND DETGRD	
			74	111







Innovate Mound Project **REVIEW**

APPROVED ☐
APPROVED AS NOTED ☐
ACCEPTED ☑
ACCEPTED AS NOTED ☐
AMEND AND RESUBMIT ☐
REJECTED - SEE REMARKS ☐
Droject requirements indicated in Contract

DRAWING SHEET MOUND SECT 1 DETGRD 76 113

BY Stan Gallery

NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION AECOM HORZ. (FT) 30 HORZ. (FT) 30 FILE: 207178_S_Mound_DTG_SB_23_Gorest&@n MACOMB SB MOUND & SB SERVICE DRIVE RAI	FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)	03AB Co.		DATE: 10/12/22 CS: INFR50000	GORE DETAIL GRADES
O HORZ. (FT) O FILE: 207178_S_Mound_DTG_SB_23_Gores Tdgn MACOMB SB MOUND & SB SERVICE DRIVE RA	NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION	AECOM Department of Roads		DESIGN UNIT: XXX JN: 207178A	SB MOUND & I-696 RAMP
		Monigat	O HORZ. (FT) 30	FILE: 207178_S_Mound_DTG_SB_23_GoresT&@n MACOMB	SB MOUND & SB SERVICE DRIVE RAMP