

February 2, 2022

Mr. Jonathon Stratz 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: **North Segment Roadway RFC Plans** 

Design-Build Innovate Mound Road

Job Number: 207178

Dear Mr. Stratz 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

#245

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 Project** APPROVED □ APPROVED AS NOTED □

ACCEPTED 🔽

ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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. Contractor is responsible for compliance with all requirements of the Contract Documents and for the safe and successful construction of the work. This review does not consider the means, methods, techniques, sequences, fabrication processes, and operations of construction,

or safety precautions or programs incidental thereto, which are the sole responsibility of the

DATE 02/17/2022

# Innovate Mound Road Design-Build

JN 207178A CS INFR50000

# North Segment Roadway RFC Plans

NB Mound Rd STA 402+00 to POE STA 642+54.34 SB Mound Rd STA 402+40 to End Construct STA 642+55.63

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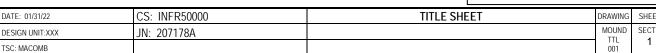
	2019 TRAFFIC DATA		2050 TRAFFIC DATA		SPEED DATA		
ROAD	ADT	COMM	ADT	сомм	DESIGN	POSTED	LIMITS
MOUND ROAD	77,550	14.1% 85,096		14.1%	55 50		SOUTH OF 16 MILE ROAD TO M-59











Innovate Mound Project APPROVED

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ents and for the safe and successful construction of the work. This review does not con ans, methods, techniques, sequences, fabrication processes, and operations of construy precautions or programs incidental thereto, which are the sole responsibility of the

HNTB

REVIEW

BY \_\_\_\_\_\_\_\_

ACCEPTED AS NOTED

DATE 02/17/2022

Communications

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

Communications

Gas

Water

Name Of Owner Type Of Utility 123.NET,INC Communications

Attention: JOHN REYNOLDS 24700 Northwestern Hwy, Suite 700

it's accuracy and the location of existing utilities.

Southfield, MI 48075 Phone: (248) 228-8223; (906)-370-2767

Email: <u>ireynolds@123.net</u>

Communications

Attention: ROBER LAZARECKY 100 S. Main St. Mount Clemens, MI 48043

Phone: (586) 549-8961 Email: <u>RL1714@att.com</u>

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 Communications

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

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

DETROIT EDISON Electric

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

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 Municipal

Attention: STAN SLANEC Phone: (586) 307-8274

Email: missdig@macombgov.org

OAKLAND COUNTY DRAIN COMMISSIONER Municipal

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

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

SHELBY TOWNSHIP DPW Municipal 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: JOHN HAJEC 37150 Plymouth Rd, Livonia, MI 48150 Phone: (248) 506-7951

Email: john.hajec@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

MCI/ VERIZON BUSINESS Communications

Communications

Communications

Communications

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

CROWN CASTLE/ LIGHTTOWER FIBER NETWORK Communications

Attention: STEVEN HERALD 755 Big Beaver Rd, Suite 200, Troy, MI 48084

Phone: (947) 252-1259 Email: steven.herald@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 CENTURYLINK Attention: KENDALLYN ZETINA

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

Email: kendall.zetina@centurylink.com

LEVEL 3 NOW CENTURYLINK 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

ACCEPTED AS NOTED

AMEND AND RESUBMIT REJECTED - SEE REMARKS

Phone: (812)-459-6649 Phone: [812]-4599-66749 general conformance with the project requirements indicated in Contract

Email: <a href="mailto:dhristophenistagers@wisadetyeentheorige">dhristophenistagers@wisadetyeentheorige</a> design concept. This review does not relieve ons in designs for which the Contractor is ible. Contractor is responsible for compliance with all requirements of the Contract ents and for the safe and successful construction of the work ents of the contract

Attention: GREACHENDRANTING sequences, fabrication processes, and opera or safety precautions or programs incidental thereto, which are the sole response. 27175 Energy Way Stun Giller

DATE 02/17/2022

Electric

Electric

Flectric 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 Hwv. 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

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE PROJECT INFORMATION SHEET DRAWING SHEET DATE: 01/31/22 CS: INFR50000 AECOM MOUND SECT 1 DESCRIPTION NO SCALE DESIGN UNIT: XXX JN: 207178A O. DATE AUTH DESCRIPTION DATE PRO.J 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.

Title	Plan No.
ROAD	
DRAINAGE STRUCTURES	R-1-G
COVER B	R-7-F
COVER C	R-8-D
COVER D	R-9-D
MONUMENT BOXES	R-11-E
COVER G	R-12-E
COVER J	R-14-D
COVER K	R-15-G *
COVER Q	R-18-F
BRIDGE APPROACH CURB & GUTTER	R-27-F *
CURB RAMP AND DETECTABLE WARNING DETAILS	R-28-J *
DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALK	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
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 *

<sup>\*</sup> Denotes Special Detail

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: **AECOM** NO. DATE AUTH DESCRIPTION DATE DESCRIPTION



# NO SCALE

#### PROJECT INFORMATION SHEET DATE: 01/31/22 CS: INFR50000 DESIGN UNIT: XXX JN: 207178A FILE: 207178 Project Info Sheet.doc TSC: MACOMB

Innovate Mound Project **REVIEW** 

APPROVED AS NOTED

ACCEPTED 🗸 ACCEPTED AS NOTED

APPROVED

DRAWING SHEET

MOUND SECT 1
PROJ
003

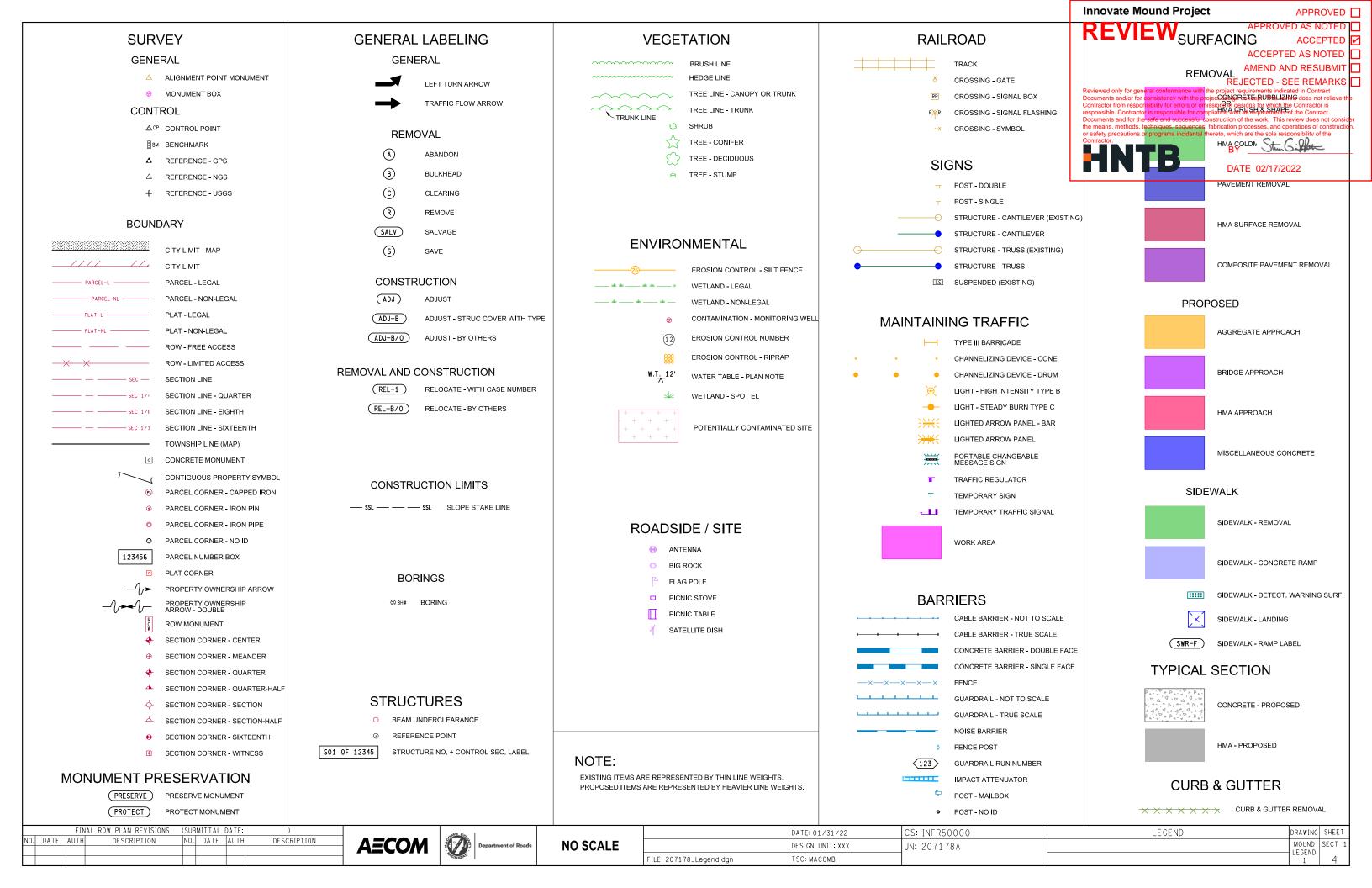
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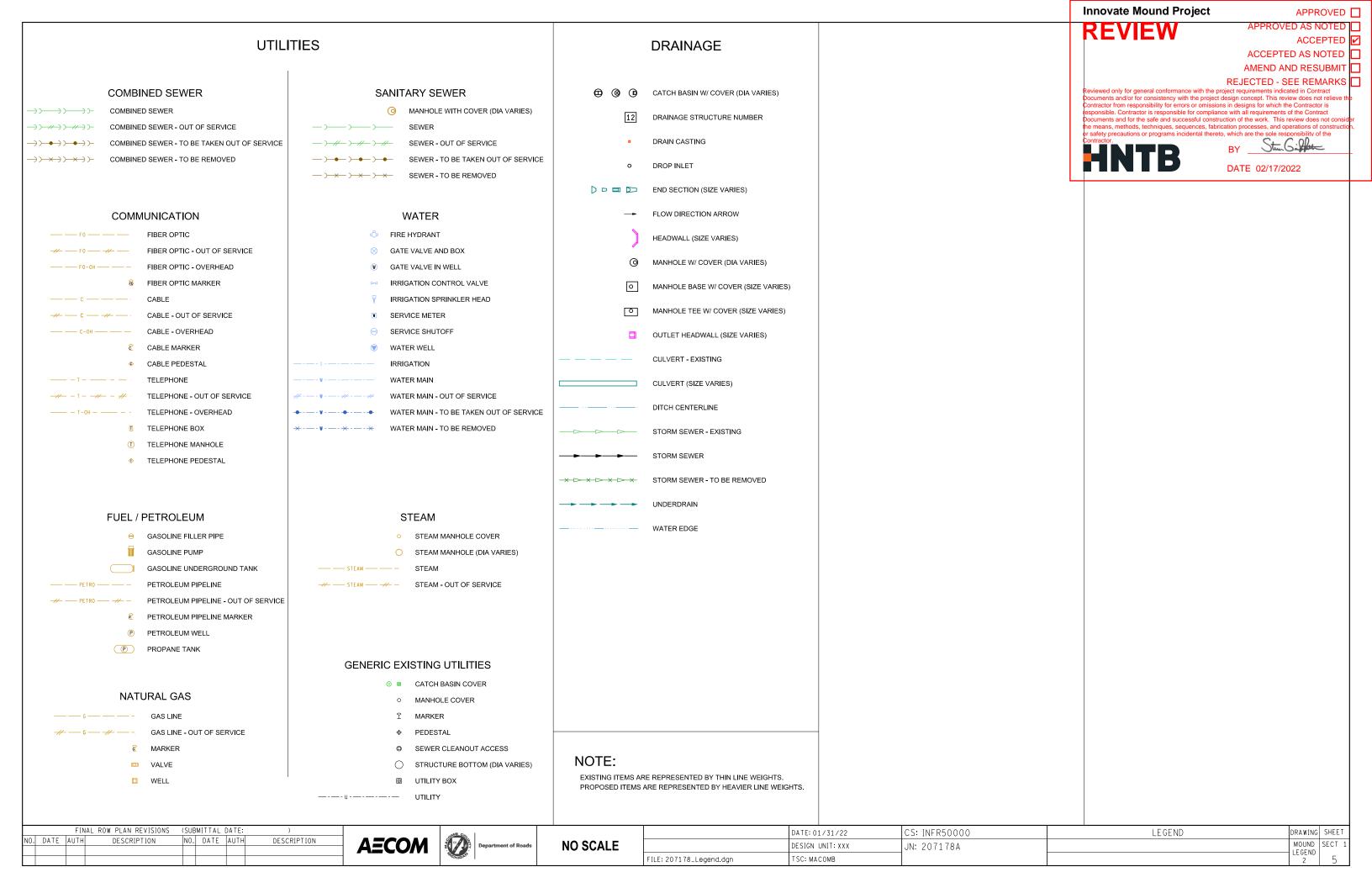
REJECTED - SEE REMARKS

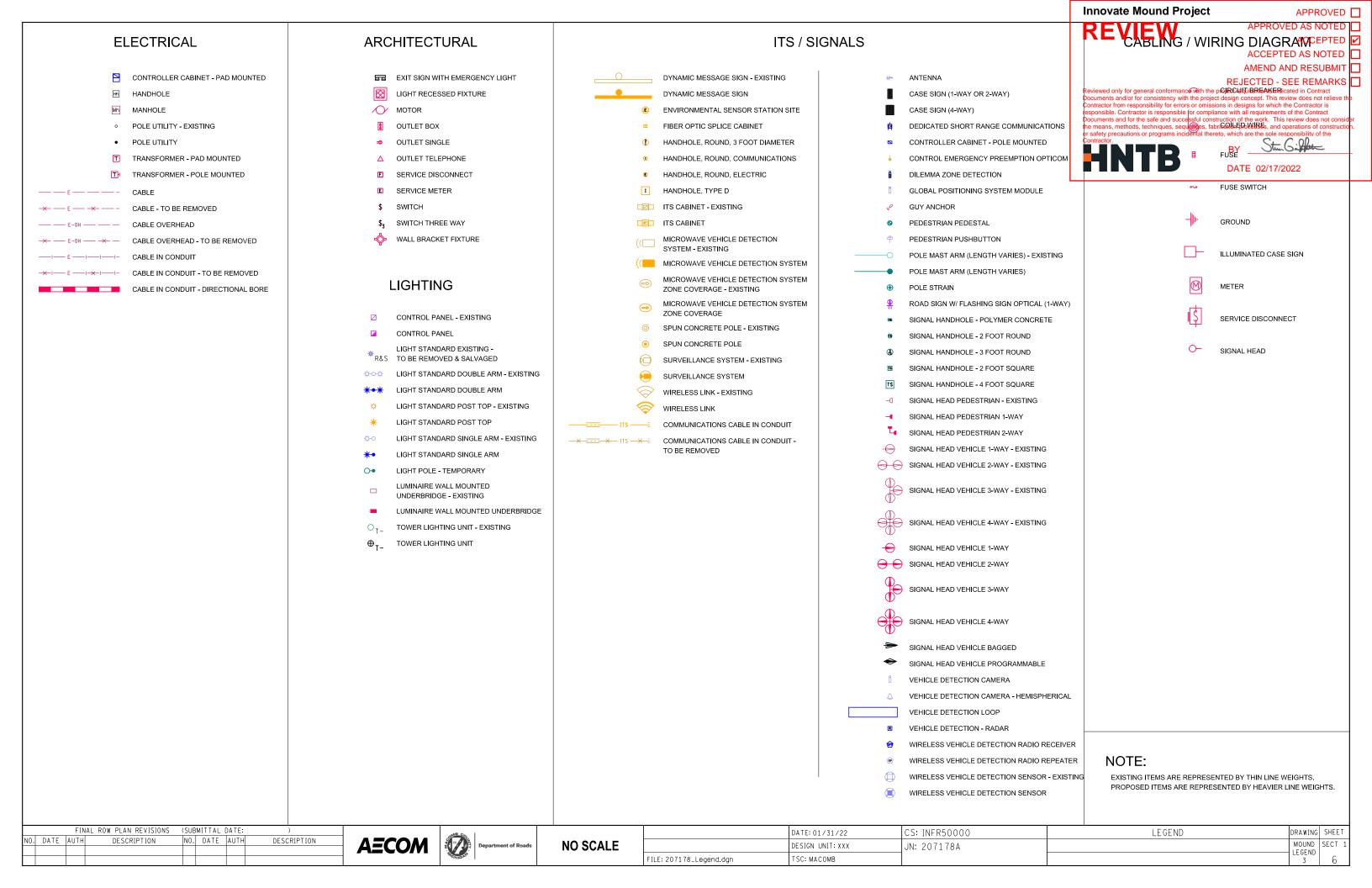
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BY

DATE 02/17/2022







#### MISS DIG/UNDERGROUND UTILITY NOTIFICATION

For the protection of underground utilities and in conformance with MCL 460.171 et seg, 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

## **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 crosssection 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

## RFVIFW

APPROVED AS NOTED **ACCEPTED** 

APPROVED □

# REST AREA AND/OR LANDSCAPING ACCEPTED AS NOTED

**Innovate Mound Project** 

AMEND AND RESUBMIT

Existing vegetation shall not be damaged during constructions operations RKS per the 2012 Standard Specifications for Construction ements indicated in Contract

Contractor from responsibility for errors or omissions in designs for which the Contractor is Heavy equipment will not be allowed to work outside the slope stake lines in the wooded portion of the astrocative equipment to who Used and stocom approved by the means, methods, techniques, sequences, labrication processes, and operation by the engineer of programs became and who which are the sole response

Storage of the restricted to the state of th

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

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.

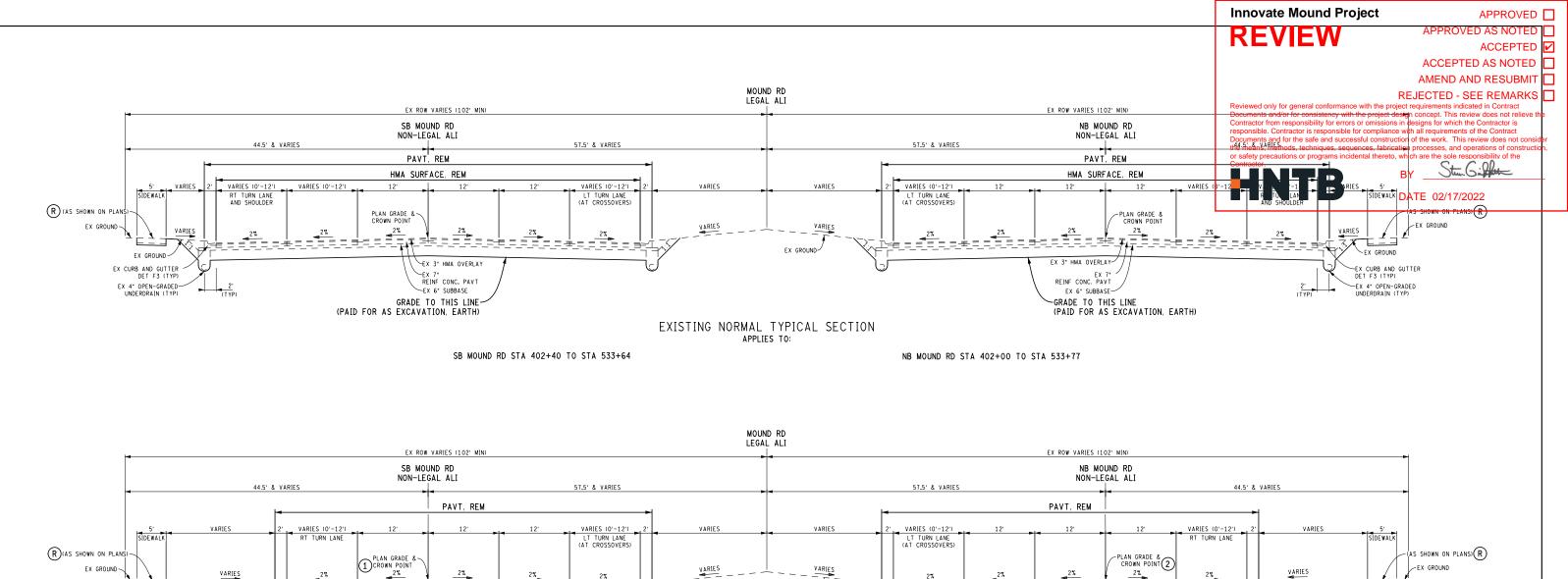
## **ENVIRONMENTAL**

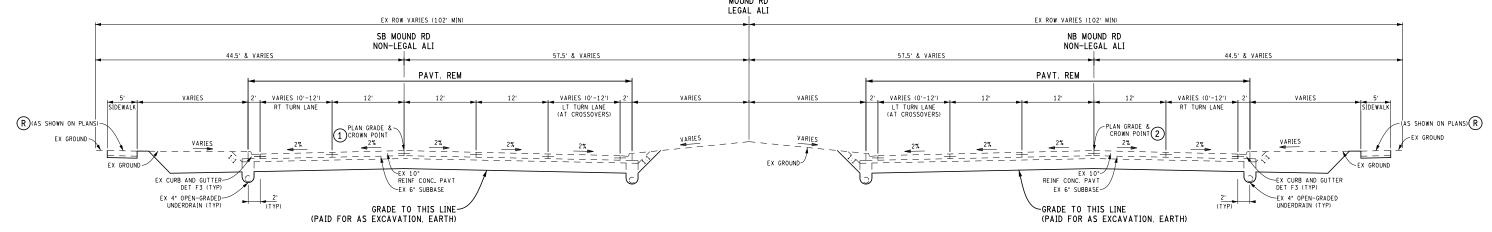
#### **PROTECTED TURTLES**

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 adjacent vegetative cover, away from physical work activities. If possible, please take a photo and immediately contact the Engineer.

## PROJECT SPECIFIC NOTES

	FINAL ROW PLAN REVISION	ONS (SUBMITTAL DATE:	)					DATE: 01/31/22	CS: INFR500000	NOTE SHEET	DRAWING	SHEET
	NO. DATE AUTH DESCRIPTION	NO. DATE AUTH	DESCRIPTION	AECOM	Department of Roads	NO SCALE		DESIGN UNIT: XXX	JN: 207178A		MOUND	SECT 1
I				7 / 1230///	<b>4.5</b>		FILE: 207178 Note Sheet.doc	TSC: MACOMB			007	1

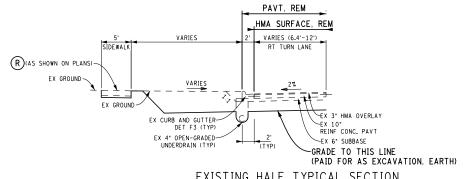




EXISTING NORMAL TYPICAL SECTION APPLIES TO:

SB MOUND RD STA 533+64 TO STA 642+55.63 (GAP OUT AT STRUCTURE #6245 STA 545+60.50 TO STA 545+93.32)

NB MOUND RD STA 533+77 TO POE STA 642+54.34 (GAP OUT AT STRUCTURE #6244 STA 545+19.39 TO STA 545+52.85)

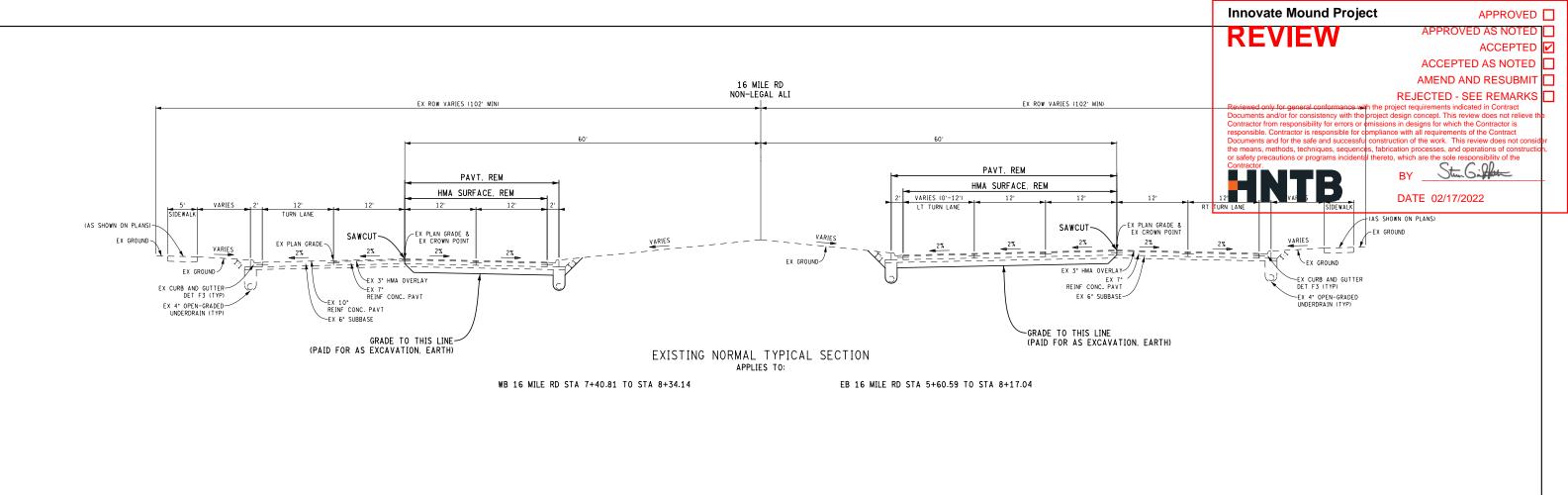


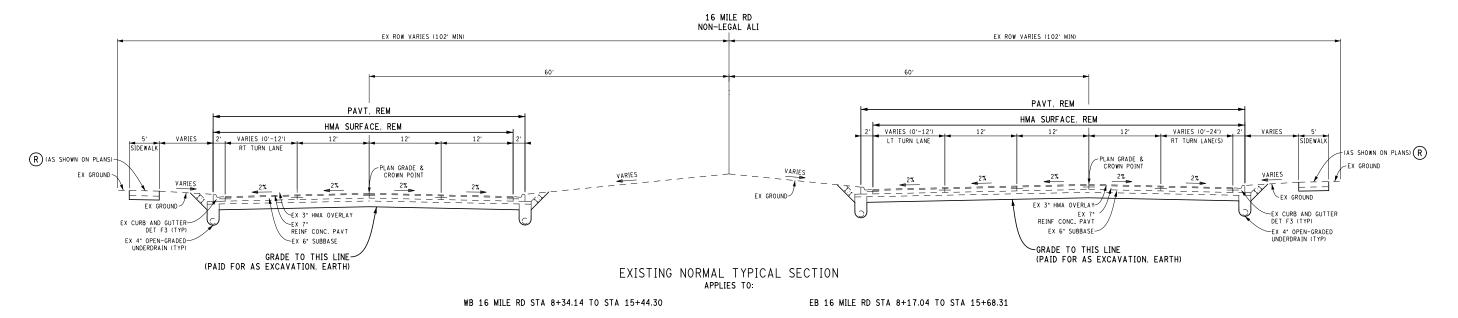
EXISTING HALF TYPICAL SECTION APPLIES TO:

SB MOUND RD STA 533+64.19 TO STA 538+21.13

- 1 VARIES O' STA 637+50.00 TO 4.37' LT AT STA 641+60.00 4.37' LT FROM STA 641+90.00 TO POE STA 642+55.63
- ② VARIES 0' STA 637+50.00 TO 4.27' RT AT STA 641+75.00 4.27' RT FROM STA 642+00.00 TO POE STA 642+54.34

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: )	ON B CO.			DATE: 01/31/22	CS: INFR50000	TYPICAL CROSS SECTIONS	DRAWING	SHEET
NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION	<b>AECOM</b> Department of Roads			DESIGN UNIT: XXX	JN: 207178A		MOUND	SECT 1
	The state of the s	O HORZ. (FT) 16	FILE: 207178_Ex_Typ_Mound.dgn	TSC: MACOMB			TYP 1	8





FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: )

NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION

AECOM

HORZ. (FT) 16

FILE: 207178\_EX\_Typ\_16Mile.dgn TSC: MACOMB

TYPICAL CROSS SECTIONS DRAWING SHEET

DATE: 01/31/22 CS: INFR50000

TYPICAL CROSS SECTIONS DRAWING SHEET

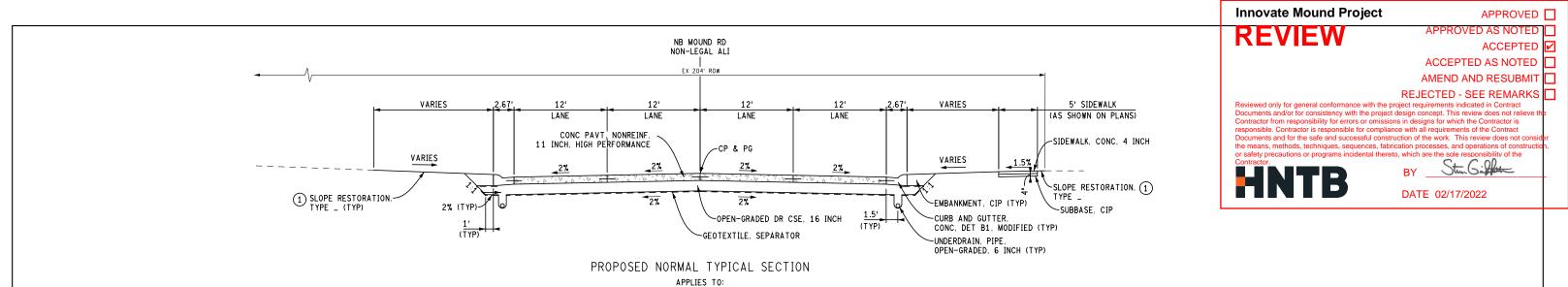
DATE: 01/31/22 DESIGN UNIT: XXX

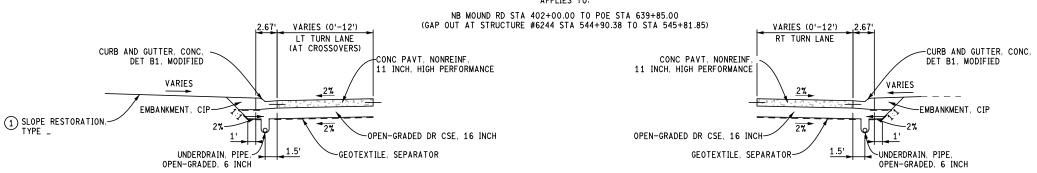
TYPICAL CROSS SECTIONS DRAWING SHEET

MOUND TYP

TYP

FILE: 207178\_EX\_Typ\_16Mile.dgn TSC: MACOMB





PROPOSED HALF TYPICAL CROSSOVER SECTION

APPLIES TO:

(AS SHOWN ON PLANS)

PROP GUARDRAIL

(AS SHOWN ON PLANS)

VARIES

EMBANKMENT, CIP-

PROPOSED HALF TYPICAL GUARDRAIL SECTION

APPLIES TO:

(AS SHOWN ON PLANS)

CURB AND GUTTER,

-UNDERDRAIN, PIPE,

CONC, DET D1, MODIFIED

OPEN-GRADED, 6 INCH

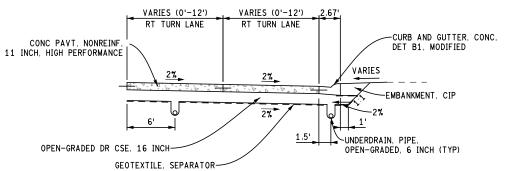
-CURB AND GUTTER, CONC, DET F1, MODIFIED VARIES -EMBANKMENT. CIP ─UNDERDRAIN, PIPE, OPEN-GRADED, 6 INCH

PROPOSED HALF TYPICAL TURN LANE SECTION APPLIES TO:

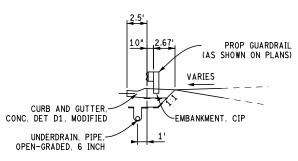
PROPOSED HALF TYPICAL CURB SECTION APPLIES TO:

(AS SHOWN ON PLANS)

(AS SHOWN ON PLANS)



PROPOSED HALF TYPICAL TWO-TURN LANE SECTION APPLIES TO: (AS SHOWN ON PLANS)



PROPOSED HALF TYPICAL GUARDRAIL SECTION APPLIES TO:

(AS SHOWN ON PLANS)

1 SLOPE RESTORATION REQUIRED IN DISTURBED AREAS ONLY

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: DATE: 01/31/22 CS: INFR50000 TYPICAL CROSS SECTIONS DRAWING SHEET NO. DATE AUTH DESCRIPTION **AECOM** MOUND SECT : DESIGN UNIT: XXX JN: 207178A HORZ. (FT) TSC: MACOMB FILE: 207178\_Pr\_Typ\_Mound.dgn

**REVIEW** APPROVED AS NOTED ACCEPTED 🗹 ACCEPTED AS NOTED AMEND AND RESUBMIT REJECTED - SEE REMARKS 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. Contractor is responsible. Contractor is responsible for compliance with all requirements of the Contract Documents and for the safe and successful construction of the work. This review does not consist the means, methods, techniques, sequences, fabrication processes, and operations of construction safety precautions or programs incidental thereto, which are the sole responsibility of the Contractor.

BY NB MOUND RD NON-LEGAL ALI EX 204' ROW VARIES VARIES 5' SIDEWALK LANE LANE LANE LANE (AS SHOWN ON PLANS) DATE 02/17/2022 CONC PAVT, NONREINF, ~ 11 INCH, HIGH PERFORMANCE 2 SIDEWALK, CONC, 4 INCH CP & PG VARIES

> 1.5' (TYP)

PROPOSED NORMAL TYPICAL SECTION

APPLIES TO:

NB MOUND RD STA 639+85.00 TO STA 642+54.34

2%

2%

-GEOTEXTILE, SEPARATOR

OPEN-GRADED DR CSE, 16 INCH

1 SLOPE RESTORATION,—
TYPE \_ (TYP)

2% (TYP)-

(TYP)

② VARIES 0' STA 639+85.00 TO 4.27' AT STA 642+00.00 4.27' FROM STA 642+00.00 TO POE STA 642+54.34

SLOPE RESTORATION, (1)

TYPE \_

-EMBANKMENT, CIP (TYP)

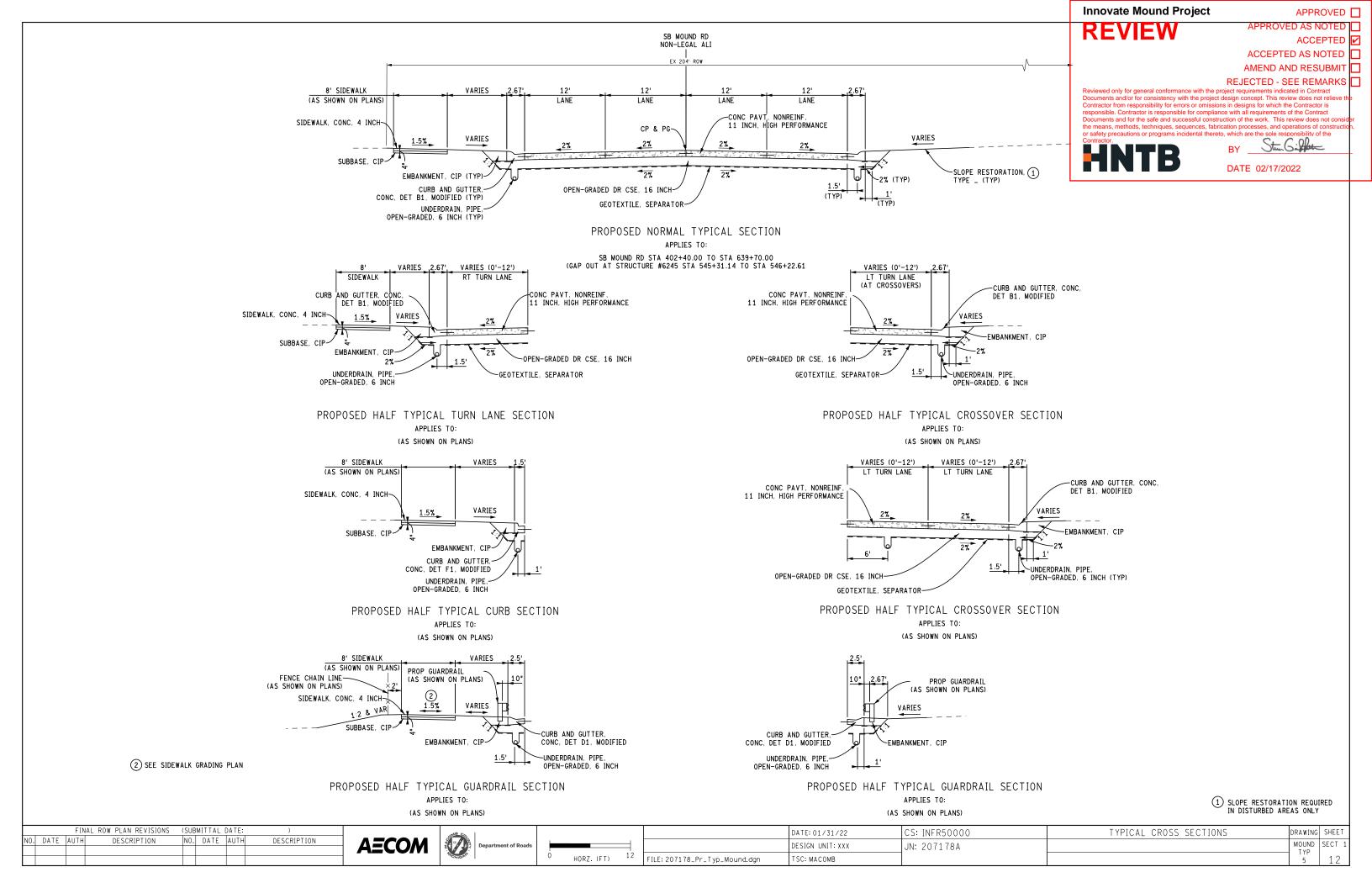
-CURB AND GUTTER, CONC, DET B1, MODIFIED (TYP) -UNDERDRAIN, PIPE, OPEN-GRADED, 6 INCH (TYP)

SUBBASE, CIP

Innovate Mound Project

APPROVED

	FINAL ROW PLAN REVISIONS (		)	ME CO			DATE: 01/31/22	CS: INFR50000	TYPICAL CROSS SECTIONS	DRAWING SHEET
NO. [	ATE AUTH DESCRIPTION	NO. DATE AUTH DES	SCRIPTION A =	Department of Roads			DESIGN UNIT: XXX	JN: 207178A		MOUND SECT 1
				THICHIGAS.	0 HORZ. (FT) 12	FILE: 207178_Pr_Typ_Mound.dgn	TSC: MACOMB			TYP 4 11



**Innovate Mound Project** APPROVED REVIEW ACCEPTED ✓ ACCEPTED AS NOTED AMEND AND RESUBMIT REJECTED - SEE REMARKS 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. Contractor is responsible. Contractor is responsible for compliance with all requirements of the Contract Documents and for the safe and successful construction of the work. This review does not consist the means, methods, techniques, sequences, fabrication processes, and operations of construction safety precautions or programs incidental thereto, which are the sole responsibility of the Contractor.

BY SB MOUND RD NON-LEGAL ALI 8' SIDEWALK VARIES 2.67'. (AS SHOWN ON PLANS) LANE LANE LANE LANE DATE 02/17/2022

CONC PAVT, NONREINF,

11 INCH, HIGH PERFORMANCE

PROPOSED NORMAL TYPICAL SECTION

APPLIES TO:

SB MOUND RD STA 639+70.00 TO STA 642+55.63

2%

2

CP & PG~

<del>-</del>2%

GEOTEXTILE, SEPARATOR-

OPEN-GRADED DR CSE, 16 INCH-

SIDEWALK, CONC, 4 INCH-

SUBBASE, CIP

I VARIES

1.5%

UNDERDRAIN, PIPE, -OPEN-GRADED, 6 INCH (TYP)

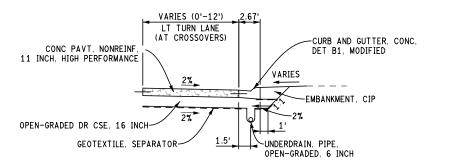
EMBANKMENT, CIP (TYP)

CURB AND GUTTER,—
CONC, DET B1, MODIFIED (TYP)

② YARIES 0' STA 639+70.00 TO 4.37' AT STA 641+90.00 4.37' FROM STA 641+90.00 TO POE STA 642+55.63

-SLOPE RESTORATION, 1

TYPE \_ (TYP)



VARIES

PROPOSED HALF TYPICAL CROSSOVER SECTION

APPLIES TO:

(AS SHOWN ON PLANS)

	FINAL ROW PLAN REVISIONS			)		OMB CO.			DATE: 01/31/22	CS: INFR50000	TYPICAL CROSS SECTIONS	DRAWING	SHEET
NO. DATE	AUTH DESCRIPTION	NO. DATE	AUTH	DESCRIPTION	⊢ Δ <i>ΞC</i> OM	Department of Roads			DESIGN UNIT: XXX	JN: 207178A		MOUND	SECT 1
						MICHIGAS	O HORZ. (FT) 12	FILE: 207178_Pr_Typ_Mound.dgn	TSC: MACOMB			- TYP	13

Innovate Mound Project

REVIEW

APPROVED

ACCEPTED ✓

ACCEPTED AS NOTED

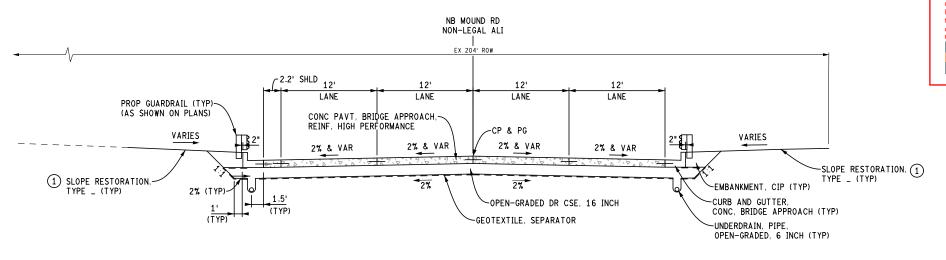
AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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

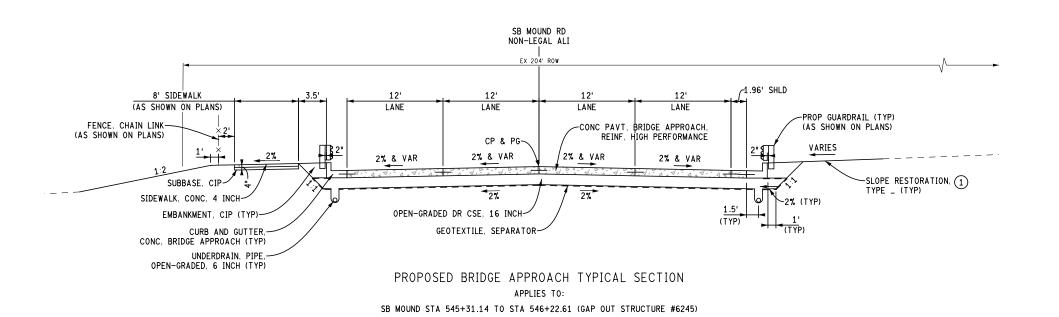
BY

DATE 02/17/2022



## PROPOSED BRIDGE APPROACH TYPICAL SECTION APPLIES TO:

NB MOUND STA 544+90.38 TO STA 545+81.85 (GAP OUT STRUCTURE #6244)



	FIN		(SUBMITTAL DATE:	)		OMB CO.			DATE: 01/31/22	CS: INFR50000	TYPICAL CROSS SECTIONS	DRAWING SHEET
N	). DATE AUTH	DESCRIPTION	NO. DATE AUTH	DESCRIPTION	<b>AECOM</b>	Department of Roads			DESIGN UNIT: XXX	JN: 207178A		MOUND SECT 1
E						MICHIGAN .	0 HORZ. (FT) 12	FILE: 207178_Pr_Typ_Mound.dgn	TSC: MACOMB			7 14

Innovate Mound Project

**REVIEW** 

ACCEPTED ✓

APPROVED

ACCEPTED AS NOTED

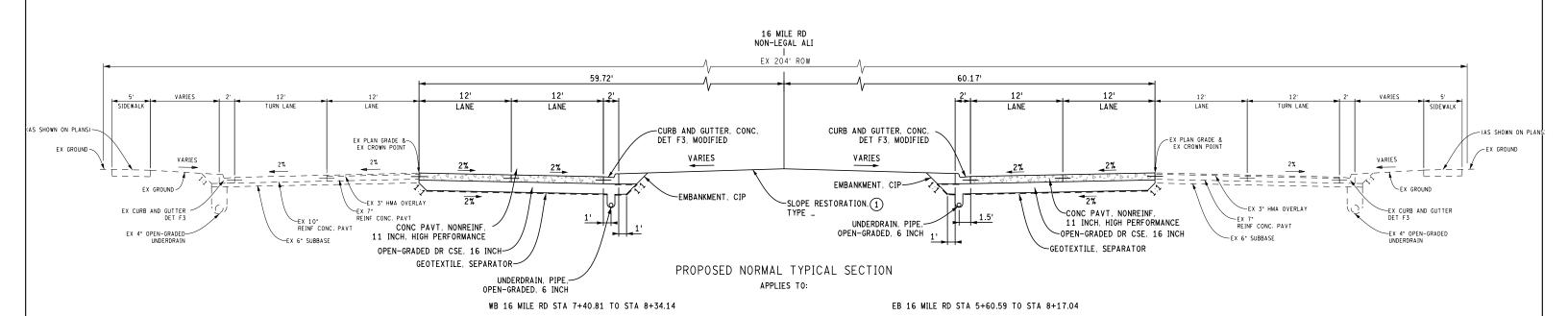
AMEND AND RESUBMIT

REJECTED - SEE REMARKS

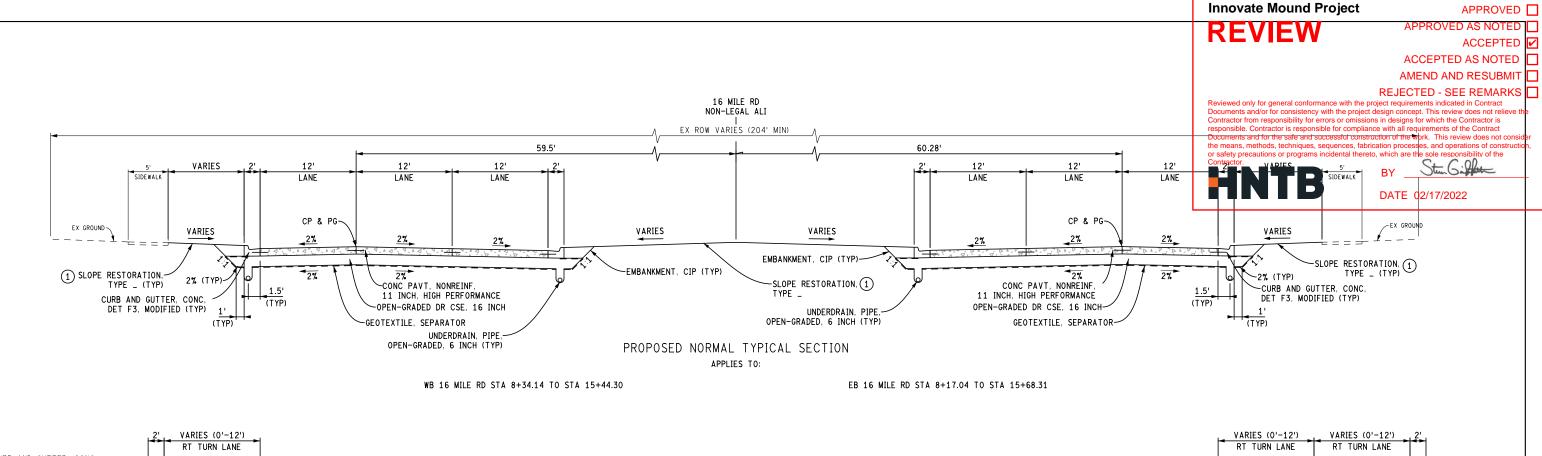
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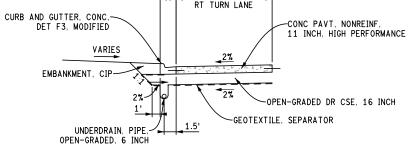
BY

DATE 02/17/2022



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:	)		DATE: 01/31/22	CS: INFR50000	TYPICAL CROSS SECTIONS	DRAWING	SHEET
NO. DATE AUTH DESCRIPTION NO. DATE AUTH DE	DESCRIPTION AECOM Department of Roads		DESIGN UNIT: XXX	JN: 207178A		16 MILE	SECT 1
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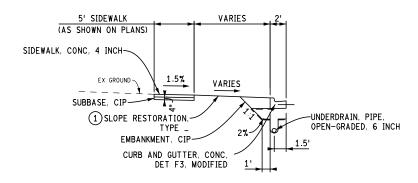




PROPOSED HALF TYPICAL ONE-TURN LANE SECTION

APPLIES TO:

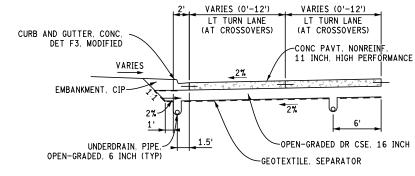
(AS SHOWN ON PLANS)



PROPOSED HALF TYPICAL SIDEWALK SECTION

APPLIES TO:

(AS SHOWN ON PLANS)



PROPOSED HALF TYPICAL CROSSOVER SECTION

APPLIES TO:

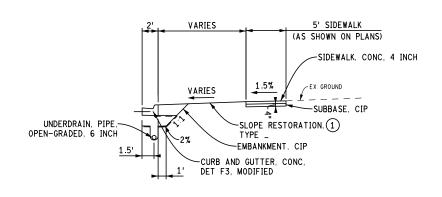
(AS SHOWN ON PLANS)

VARIES (0'-12') VARIES (0'-12') 2'
RT TURN LANE RT TURN LANE
CURB AND GUTTER. CONC.
DET F3, MODIFIED

OPEN-GRADED DR CSE, 16 INCH
GEOTEXTILE, SEPARATOR
UNDERDRAIN, PIPE,
OPEN-GRADED, 6 INCH

PROPOSED HALF TYPICAL TWO-TURN LANE SECTION APPLIES TO:

(AS SHOWN ON PLANS)

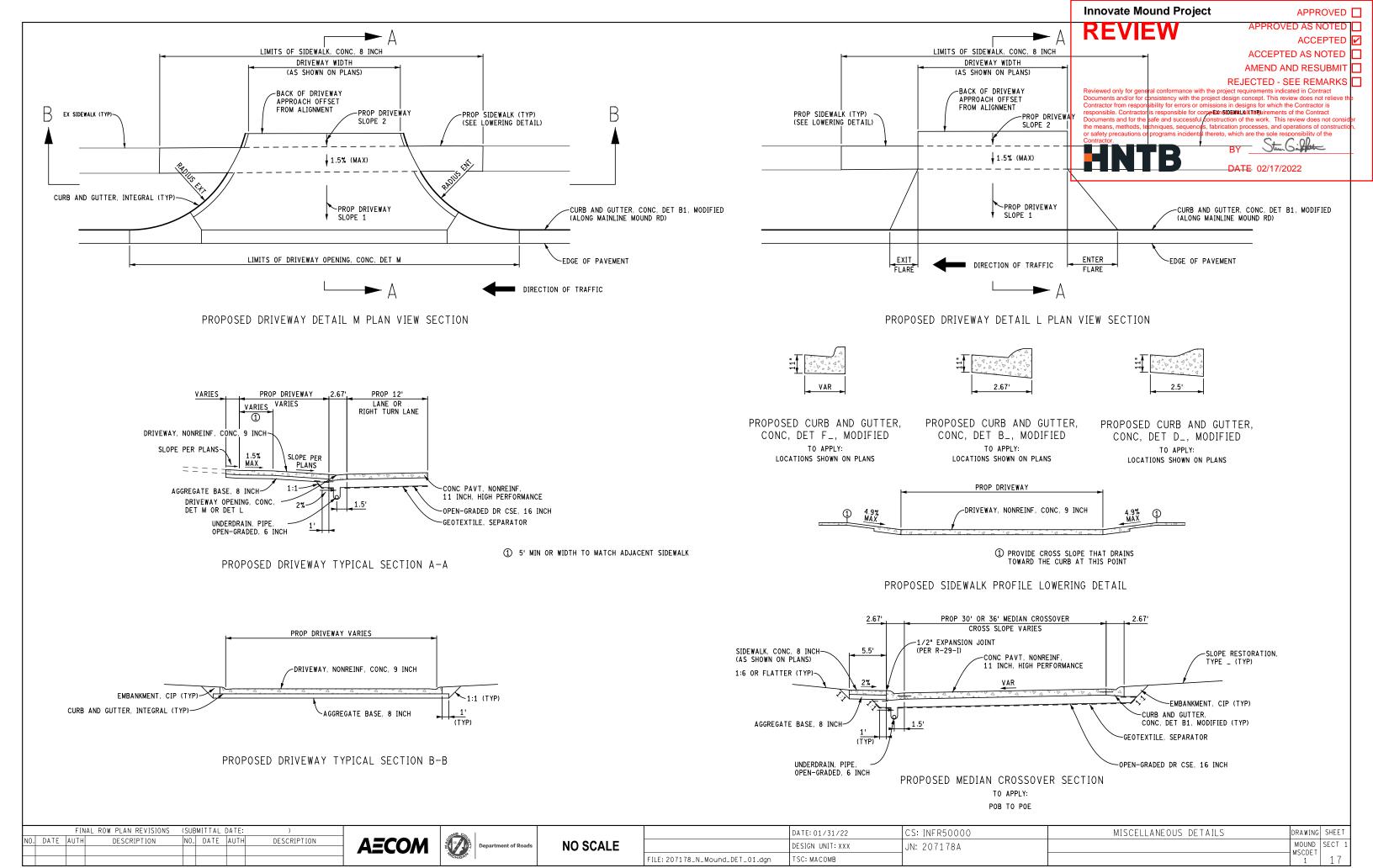


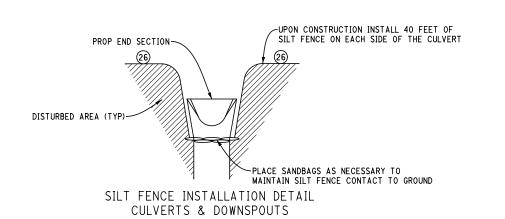
PROPOSED HALF TYPICAL SIDEWALK SECTION

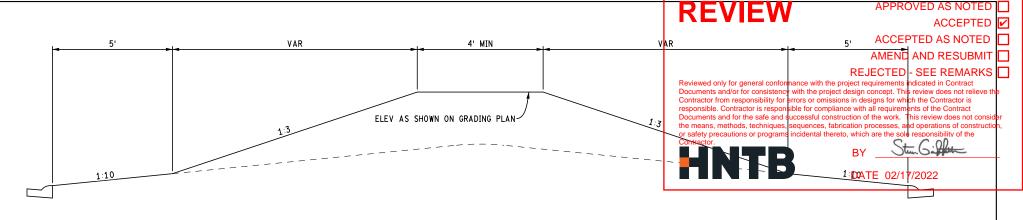
APPLIES TO:

(AS SHOWN ON PLANS)

TIME ROW TEAM REVISIONS (SOUMITTAE DATE)	OMB CO.		DATE: 01/31/22	C2: INFR50000	TYPICAL CROSS SECTIONS DRA	AWING SHE	ات
DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION AECOM	Department of Roads		DESIGN UNIT: XXX	JN: 207178A	16	MILE SEC	( 1
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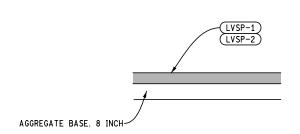


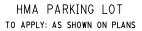


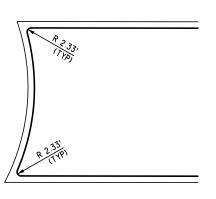
Innovate Mound Project

APPROVED

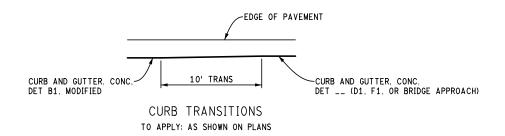
PROPOSED MEDIAN FEATURE BERM GRADING
TO APPLY: AT ALL FEATURE BERM LOCATIONS AS SHOWN ON GRADING SHEETS







CROSSOVER RADIUS DETAIL



#### HMA APPLICATION ESTIMATE

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

\*FOR INFORMATION ONLY

FIN	AL ROW PLAN REVISIONS				OMB CO.			DATE: 01/31/22	CS: INFR50000	MISCELLANEOUS DETAILS	DRAWING SHEET	
NO. DATE AUTH	DESCRIPTION	NO. DATE AUTH	DESCRIPTION	- AECOM	Department of Roads	NO SCALE		DESIGN UNIT: XXX	JN: 207178A		MOUND SECT 1	-]
					MICHIGAT		FILE: 207178_N_Mound_DET_01.dgn	TSC: MACOMB			2 18	

APPROVED

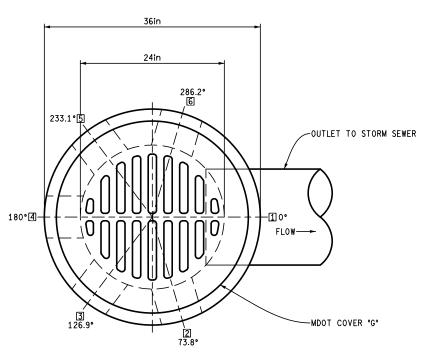
ACCEPTED AS NOTED AMEND AND RESUBMIT

REJECTED - SEE REMARKS

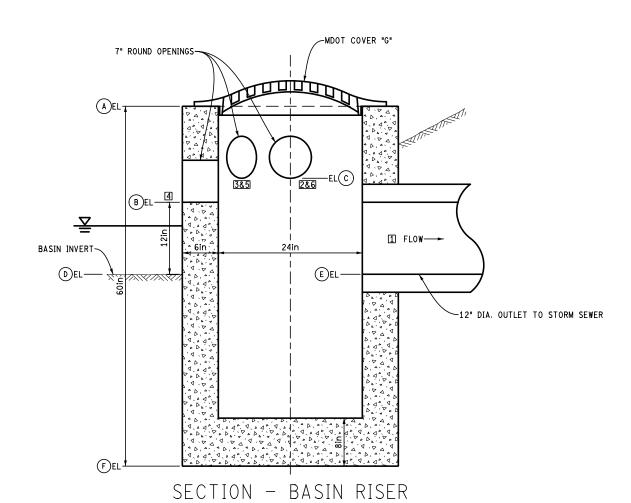
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BY

DATE 02/17/2022



PLAN VIEW (TYPICAL)



Riser Structure ID	ture ID Elevations						
Riser Structure ID	Α	В	С	D	E	F	Outlet to MH
IN-5960	632.59	631.59	631.84	630.59	630.59	627.59	600635
IN-5990	633.57	632.57	632.82	631.57	631.57	628.57	600637
IN-6030	634.70	633.70	633.95	632.70	632.70	629.70	600639
IN-6080	635.33	634.33	634.58	633.33	633.33	630.33	600643
IN-6081	635.40	634.40	634.65	633.40	633.40	630.40	600643
IN-6110	636.08	635.08	635.33	634.08	634.08	631.08	600647
IN-6140	636.70	635.70	635.95	634.70	634.70	631.70	600649
IN-5790	629.11	628.11	628.36	627.11	627.11	624.11	270012
IN-5791	629.59	628.59	628.84	627.59	627.59	624.59	270012
IN-5830	630.91	629.91	630.16	628.91	628.91	625.91	600614
IN-5590	626.11	625.11	625.36	624.11	624.11	621.11	600589
IN-5600	627.58	626.58	626.83	625.58	625.58	622.58	600591
IN-5630	628.56	627.56	627.81	626.56	626.56	623.56	600595
IN-5150	624.94	623.94	624.19	622.94	622.94	619.94	600550
IN-5151	625.22	624.22	624.47	623.22	623.22	620.22	600550
IN-5180	625.82	624.82	625.07	623.82	623.82	620.82	600551
IN-5090	622.81	621.81	622.06	620.81	620.81	617.81	600546
IN-4940	622.71	621.71	621.96	620.71	620.71	617.71	600537
IN-4941	622.58	621.58	621.83	620.58	620.58	617.58	600537
IN-4970	623.21	622.21	622.46	621.21	621.21	618.21	600539
IN-5000	623.72	622.72	622.97	621.72	621.72	618.72	600540
IN-5030	623.19	622.19	622.44	621.19	621.19	618.19	MH-5030
IN-5031	622.77	621.77	622.02	620.77	620.77	617.77	600542
IN-4590	622.69	621.69	621.94	620.69	620.69	617.69	600491
IN-4610	621.48	620.48	620.73	619.48	619.48	616.48	600493
IN-4640	620.67	619.67	619.92	618.67	618.67	615.67	600495
IN-4641	620.48	619.48	619.73	618.48	618.48	615.48	600495
IN-4390	621.80	620.80	621.05	619.80	618.80	616.80	600474
IN-4470	623.75	622.75	623.00	621.75	620.75	618.75	SB-4471
IN-4090	617.94	616.94	617.19	615.94	615.94	612.94	600435
IN-4091	617.79	616.79	617.04	615.79	615.79	612.79	600435
IN-4140	619.36	618.36	618.61	617.36	617.36	614.36	SB-4131

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





NO SCALE	
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	DATE: 01/31/22	CS: INFR50000	MISCELLANEOUS DETAILS	DRAWING	SHEET
	DESIGN UNIT: XXX	JN: 207178A		MOUND	SECT 1
FILE: 207178_N_Mound_Riser_DET_Round	.Ты§а: масомв			MSCDET 3	19

STATE PLANE GRID

ZONE: MICHIGAN SOUTH 2113

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

UNITS: INTERNATIONAL FEET

#### **GROUND DISTANCE CONVERSION**

COORDINATE SYSTEM:

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'

TO EAST EDGE OF CURB 4. WEST 5.00'

**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. **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

WITNESSES:

1.S04°E 30.50′ TO NORTH FACE OF LIGHT POLE TO FACE OF FENCE POST 2.S84°E 43.60'

TO FACE OF SIGN 3. N04°E 92.60' 4. WEST 5.50' TO EAST EDGE OF CURB 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 33.40' FACE OF FENCE POST 2.N78°W 3. S12°W 71.10' TO CENTER OF HYDRANT 4. WEST 3.5'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 SET NAIL AND TAG IN WEST SIDE OF UTILITY POLE 3. S04°E 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 1**39+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′

2.S45°E 7.50' 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 SDN=0.010 SDE=0.009 SDZ=0.006 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 POLE

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

**Innovate Mound Project** 

APPROVED AS NOTED

APPROVED □

CONTROL PT#: 111 DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSP FRAVERSE CAPTED

**ACCEPTED** 

ON EAST SIDE NORTHBOUND MOUND ROAD, IN FROMEND SUMBRESUBMIT RENTALS, +/- 1900' NORTH OF MILLETT AVE., +REDE'S CELTH SEECENTIFICARKS DRIVE, AND EXPLOYED AND TO THE PASTOBACK WOLLD PROBLEM TO THE PROB STATION: 24bh to 200 cm red bits bits to 89129 or or Ask or Mollus RD with EGALC Attractor is

COORD NATIOn and the safe and successful constitution of the work of this review does not con SDN=0.010 the mesing Free(n) (0) (9) Quechnique DZ (2) (0) Transition processes, and operations of co COMBINED SCIALLE FACTOR: 0.99989879 Stu Gille

WITNESSE TO LE NAME AND TAG IN WEST SIDE OF 28" MAPLE TREE 2. SO4° 17.10 SET NAIL AND TAG IN WEST SIDE OF 36" POPLAR

TREE 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

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"

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

4. S34°E 21.90' TP CENTER OF MANHOLE

COMBINED SCALE FACTOR: 0.99989799

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' EAST OF EAST BACK OF CURB. STATION: 304+40.67 OFFSET: 96.74 ALI: MOUND RD LEGAL ALI COORDINATES: N=394494.416 E=13478150.824 EL=623.329 SDN=0.011 SDE=0.010 SDZ=0.009 COMBINED SCALE FACTOR: 0.99989707

WITNESSES:

1. N40°E 62.10' SET NAIL AND TAG IN SOUTHEAST SIDE OF 16" OAK TRFF

2. S80°W 14.70' TOP CENTER OF MANHOLE

3. S04°E 19.00' SET NAIL AND TAG IN WEST SIDE OF UTILITY POLE

4. WEST 3.50' TO BACK EDGE OF CURB

SURVEY INFORMATION SHEET FINAL ROW PLAN REVISIONS (SUBMITTAL DATE DATE: 01/31/22 CS: INFR50000 DRAWING SHEET MOUND SECT 1 NO SCALE DESIGN UNIT: XXX JN: 207178A O. DATE AUTH DESCRIPTION DATE DESCRIPTION SURVEY 20 FILE: 207178\_Survey\_Info\_Sheet.doc TSC: MACOMB

DRAWING SHEET MOUND SECT 1

SURVEY 21

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

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

3. S86°E 26.10' TO FACE OF FENCE POST

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 3. WEST 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 SDE=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 WITNESSES:

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

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

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

#### CONTROL PT#: 126

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

# REVIEW

**ACCEPTED** ACCEPTED AS NOTED

DATE 02/17/2022

CONTROL PT#: 127

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SET TRAVER SECAPBIMIT ON WEST SIDE OF MOUND ROAD, +/- 833' NORTHEOFCIPABLESROADEMARKS 33' SOUTH OF EDGEVOFGEON CRETE DRIVEWAY CITY OF MORTH FOR MAILECT BOX #43233pAADDr+fon4rekyEsTilliQfortA/EsTrGtdkRBnf-iAGE;goffoSQdftHBOddhAddr

STATION: 4364940 3 hethors Figures, 360 10 hees, Ablication of the Garatians of consti COORD NAC backeton = 4077 8.4 74 E= 13477 307.344 E SDN=0.011 Z = 0.010 BY

SDN=0.011 COMBINED C7 E1 TCC: 0 59 9334 WITNES SES:

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

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' SET NAIL AND TAG IN EAST SIDE OF 4" CRABAPPLE TREE

2. N66°W 27.10' FACE OF LIGHT POLE

3. S64°W 39.40' SET NAIL AND TAG IN NORTH SIDE OF 4" CRABAPPLE TREE

4. EAST 9.50' EDGE OF CURB

SURVEY INFORMATION SHEET FINAL ROW PLAN REVISIONS (SUBMITTAL DATE DATE: 01/31/22 CS: INFR50000 NO SCALE O. DATE AUTH DESCRIPTION DATE DESCRIPTION DESIGN UNIT: XXX JN: 207178A FILE: 207178\_Survey\_Info\_Sheet.doc TSC: MACOMB

APPROVED AS NOTED **ACCEPTED** 

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

3. S10°E 43.50' TOP CENTER OF MANHOLE

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

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

2. S30°W 12.10' TOP CENTER OF MANHOLE 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 ROAD.

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

CONTROL PT#: 141

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 2. NORTH 16.10' TOP CENTER OF MANHOLE

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

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

CONTROL PT#: 143

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSPERAVERSE CAPTED ON WEST SIDE OF MOUND ROAD; +/- 200' SOUTH OF ISON PHOLD REPAIRED . OF CONCRETE DRIVE ON GREENVIEW ROAD. REJECTED - SEE REMARKS

STATION: 88-179-09 only for perset ronformance with the project design concept. This review does not relieve COORD NAT countries and of for consistency with the project design concept. This review does not relieve COORD NAT countries and of for consistency with the project design concept. This review does not relieve SDN=0.012 responsible. Contractor is respensible for campliance with all requirements of the Contract

SDN=0.012 responsible to the Contract of the Contract o COMBINED TO MAINE, FANOTO Reh 0,099990348 es, fabrication processes, and operations of cons

CURB BY STATE OF STAT 1. EAST 3. WEST

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

CONTROL PT#: 144

WITNES SES

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 TREE

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

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

4. EAST 17.50' BACK EDGE OF CURB

CONTROL PT#: 145

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 SDZ=0.006

COMBINED SCALE FACTOR: 0.99990534

WITNESSES:

1. S64°W 33.90' TOP CENTER OF MANHOLE 2. S82°W 33.20' TOP CENTER OF HYDRANT

3. N70°W 18.60' FACE OF LIGHT POLE

4. N02°W 59.10' FACE OF LIGHT POLE



APPROVED AS NOTED **ACCEPTED** 

#### 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

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 ELEVATION: 616.077 SDZ=0.005

#### BENCHMARK#: 508

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 FOR THE DIANTED OF METRO PARKWAY ON EAST SIDE NORTHBOUND MONDAROAD AND MIT . +/- 75' EAST OF INTERSECTION. REJECTED - SEE REMARKS

STATION: 230 is and/or for consistency with the project design concept. This review does not relieve ELEVATION: 00 is and/or for consistency with the project design concept. This review does not relieve ELEVATION: 00 is a

and for the safe and successful construction of the work. This review does not cor BENCHMARK#e4514 Inethods, techniques, sequences, fabrication processes, and operat

DESCRIPTION PROBLEM OF PORTION PICKER ON WEST SIDE of the sole responsibility of the ON EAST SIDE OF THE PROBLEM OF THE PROBLE

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

#### BENCHMARK#: 517

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

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 1/2 MILE ROAD, AND IN FRONT OF GENERAL SHALE BRICK BUILDING.

STATION: 410+31.18 OFFSET: 123.74 ALI: MOUND RD LEGAL ALI ELEVATION: 633.369 SDZ=0.010







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

#### BENCHMARK#: 522

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 MOUND ROAD.

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

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

#### BENCHMARK#: 532

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

#### BENCHMARK#: 533

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

**Innovate Mound Project** 

APPROVED AS NOTED **ACCEPTED** 

Stun Giller

APPROVED □

BENCHMARK#: 545

DESCRIPTION: SET COTTON PICKER ON EAST SIDE OF CHILIFPPOLE OF COTTON PICKER ON EAST SIDE OF CHILIFPPOLE OF COTTON PICKER ON EAST SIDE OF COTTON PICKER ON EA ON WEST SIDE OF MOUND ROAD, IN FRONT OF HERMAND VINDAGESUBMIT HOMES +/- 1200' SOUTH OF EAST THIRTEEN MILEJROADD /- 250 NORTARKS OF GREEN FEW PRIVE AND SOLD FOR THE PRINT OF SOUTHBOUNDAMOUNDER COADITY for errors or on STATION: 93 sponsible. Contractor is responsible by compliance with all requirements of the Contract ELEVATION:618:088ethod\$ PZ:e0.605equences, fabrication processes, and operation or safety precautions or programs incidental thereto, which are the sole response

BENCHWAY # 4

DESCRIPTION FOR ON EAST SIDE OF UTILITY POLE
ON WEST SIDE OF MOUND ROAD, +/- 170'NORTH OF METJER 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

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE DATE O. DATE AUTH DESCRIPTION DESCRIPTION









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

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.

POI F

COORDINATES: N=369342.08 E=13476478.17 STATION: 53+76.61 OFFSET: -2822.3496 ALI: MOUND RD LEGAL ALI

WITNESSES: 1. NO3°E 52.97' FOUND PK NAIL AND TAG IN EAST SIDE OF UTILITY

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

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 POLE

SECTION CORNER: T1N-R12E / F-2

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: 01/31/22

TSC: MACOMB

DESIGN UNIT: XXX

**Innovate Mound Project** 

APPROVED AS NOTED

APPROVED □

ACCEPTED SECTION CORNER: T2N-R12E / C-4

DESCRIPTION: FOUND CAPPED IRON (CAN'T READ). ACCEPTED AS NOTED COORD NATES: N=403885.77 E=13472154.36 AMEND AND RESUBMIT STATION: 401+21.59 OFFSET: -5424.52 ALI: MOUNDIRD LESSAL ALIMARKS

WITNESSE Seviewed only for general conformance with the project requirements indicated in Contract 1. S30°V Documents and/or for consistency with the project design concept. This review does not relieve 1. S30°V documents and/or for consistency with the project design concept. This review does not relieve 1. S30°V documents and/or for consistency with the project design concept. This review does not relieve 1. S30°V documents and/or for consistency with the project design concept. This review does not relieve

2. N28°W t109e766, mespets, MAHigh Bethasethian Operations of co

UTILITY POt dotra UTILITY POLIZETICS OF SUPER CONCRETE WALL

4. N20° E

ORNER CONCRETE WALL

DATE 02/17/2022

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. NO4°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 TREE

SECTION CORNER: T2N-R12E / D-5

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" MAPLE TREE

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' FOUND CAPPED IRON

3. S33°E 53.00' SET NAIL AND TAG IN SOUTHWEST SIDE OF 8" MAPLE TREE

4. S60°W 116.50' TOP CENTER OF SANITARY MANHOLE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE O. DATE AUTH DESCRIPTION DATE DESCRIPTION





## **Innovate Mound Project**

APPROVED AS NOTED **ACCEPTED** 

SECTION CORNER: T2N-R12E / F-1

DESCRIPTION: FOUND 3/4" IRON IN BOX.

COORD NATES: N=412980.38 E=13479772.10 AMEND AND RESUBMIT STATION: 488+23.99 OFFSET: 2655.71 ALI: NACUND REDLEGAE ALEMARKS

WITNESSE Seviewed only for general conformance with the project requirements indicated in Contract 1. S47° E CAULATION TO CONSISTENCY With the project design concept. This review does not relieve consistency with the project design concept. This review does not relieve consistency with the project design concept. This review does not relieve

2. N11°VV responsible. Contractor is responsible for sensitiving with all requirements of the Contract Documents and administration of the Work. This remembdoes not contract 3. N46° W th3 %n38/s, mqt (0 ps. (c)e/N thue study of cosses, and operations of co

4. S22°W constitutions of programs increased in NORTHWES State (September 1) and the control of the CHERRY TILE BY CHERRY THE SECTION CORNER: T2N-RT2E7F-3

DATE 02/17/2022

APPROVED □

ACCEPTED AS NOTED

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** 

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 WITNESSES:

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

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. NO0°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. NO1°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 / D-11

SECTION CORNER: T2N-R12E / D-9

WITNESSES:

UTILITY POLE

COORDINATES: N=390789.69 E=13475476.98

1. NORTH 33.48' FOUND BACK OF CURB

2. SOUTH 33.12' FOUND BACK OF CURB

DESCRIPTION: FOUND REMONUMENTATION CAP IN MONUMENT BOX. COORDINATES: N=385479.22 E=13475736.07

DESCRIPTION: FOUND CONCRETE MONUMENT WITHOUT CAP.

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

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

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

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

COORDINATES: N=412841.30 E=13477120.02 STATION: 488+16.49 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI

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

3. S55°E 15.04' NORTHWEST CORNER OF CURB INLET MANHOLE

#### SECTION CORNER: T2N-R12E / E-2

TREE

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

1. N79°E 95.43' "X" ON SOUTHWEST BOLT OF HYDRANT 2. S07°W 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

WITNESSES:

1. N36°W 50.36' CENTER NUT OF HYDRANT

DESCRIPTION: FOUND 3/4" IRON WITHOUT CAP IN GRASS.

WITNESSES:

UTILITY POLE

4. N84°W 98.60' SET NAIL AND TAG IN NORTH SIDE OF UTILITY POLE

WITNESSES:

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

SECTION CORNER: T2N-R12E / E-3

SECTION CORNER: T2N-R12E / E-4

SECTION CORNER: T2N-R12E / E-5

SECTION CORNER: T2N-R12E / E-6

SECTION CORNER: T2N-R12E / E-7

DESCRIPTION: FOUND 3/4" IRON.

WITNESSES:

WITNESSES:

WITNESSES:

WITNESSES:

POLE

POLE

COORDINATES: N=406870.52 E=13477429.80

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

COORDINATES: N=404182.07 E=13477570.83

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

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

COORDINATES: N=401550.51 E=13477703.15

DESCRIPTION: FOUND 3/4" IRON WITHOUT CAP.

COORDINATES: N=398899.96 E=13477849.86

2. N70°E 101.90' CONCRETE PLAT MONUMENT

3. S16°E 24.82' "X" ON NORTH RIM OF MANHOLE

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

DESCRIPTION: FOUND REMONUMENTATION CAP IN MONUMENT BOX.

2. N73°E 104.03' PK NAIL AND TAG IN NORTHWEST SIDE OF UTILITY

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

STATION: 401+45.51 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI

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

DESCRIPTION: FOUND REMONUMENTATION CAP IN MONUMENT BOX.

STATION: 375+10.63 OFFSET: 0.00 ALI: MOUND RD LEGAL ALI

2. S66°W 108.13' PK IN SOUTHEAST SIDE OF UTILITY POLE

3. S06°E 100.51' "X" CENTER LINE NUT OF HYDRANT

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

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

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

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

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

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

1. N70°W 141.29' PK IN SOUTHWEST SIDE OF UTILITY POLE

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

POLE

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

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE O. DATE AUTH DESCRIPTION DATE DESCRIPTION



FILE: 207178\_Survey\_Info\_Sheet.doc

TSC: MACOMB

DRAWING SHEET

SURVEY

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

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

GRADE

WITNESSES:

UTILITY POLE

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

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DESCRIPTION: FOUND REMONUMENTATION CAP ONE FOOT BELOW

COORDINATES: N=415588.52 E=13477072.83

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

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

SPRUCE

			FINAL ROW PLAN REVISIONS	(SUBMIT	TAL DATE	:	)	
O.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	surveying solutions,



NO SCALE	
	FILE: 207178

	DATE: 01/31/22	CS: INFR50000	SURVEY INFORMATION SHEET	DRAWING
	DESIGN UNIT: XXX	JN: 207178A		MOUND SURVEY
ILE: 207178_Survey_Info_Sheet.doc	TSC: MACOMB			0027

**Innovate Mound Project** 

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 th Contractor from responsibility for errors or omissions in designs for which the Contractor is responsible. Contractor is responsible. Contractor is responsible for compliance with all requirements of the Contract Documents and for the safe and successful construction of the work. This review does not conside the means, methods, techniques, sequences, fabrication processes, and operations of construction safety precautions or programs incidental thereto, which are the sole responsibility of the Contractor.

BY

**REVIEW** 

APPROVED

ACCEPTED 🗸

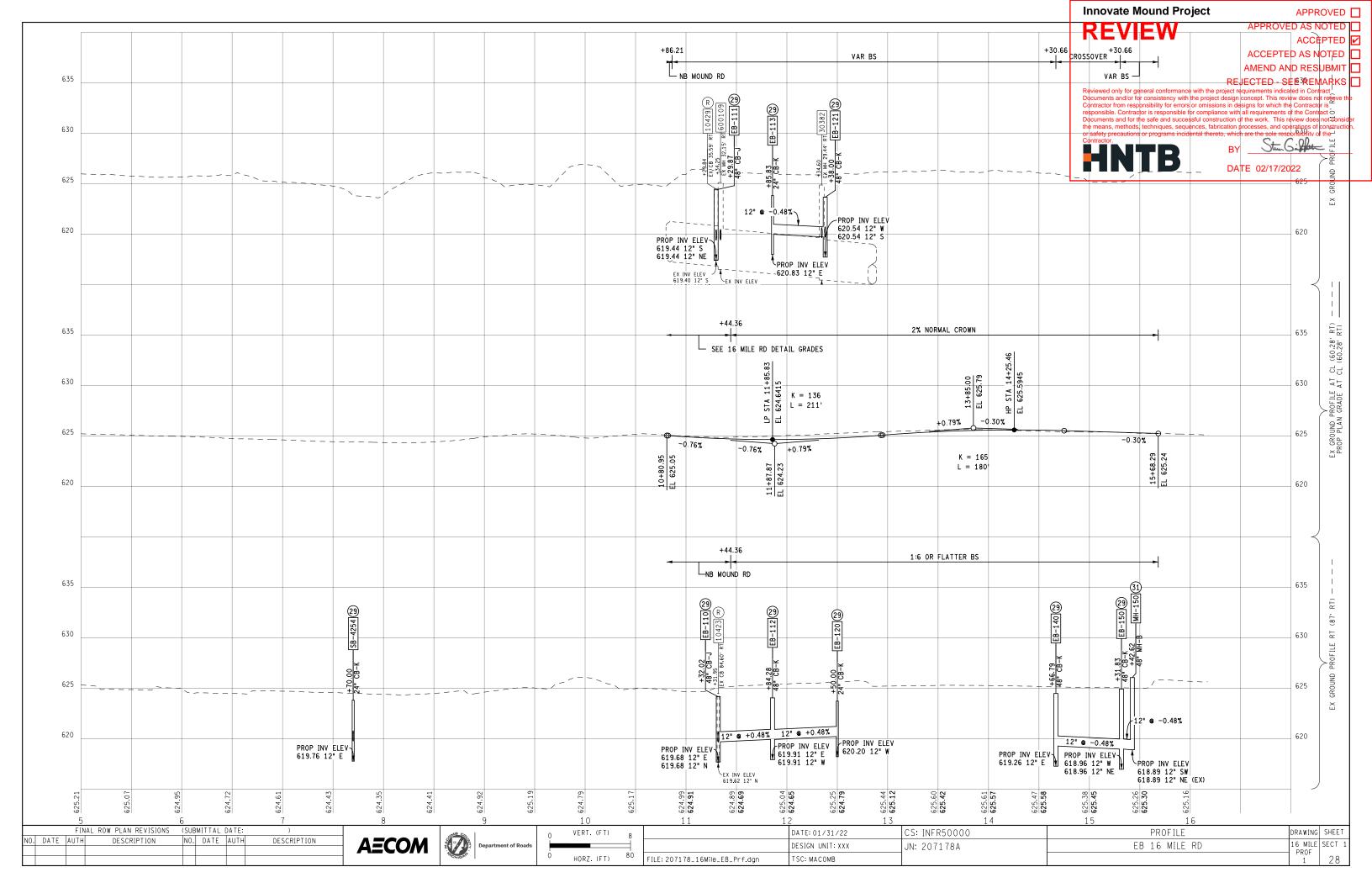
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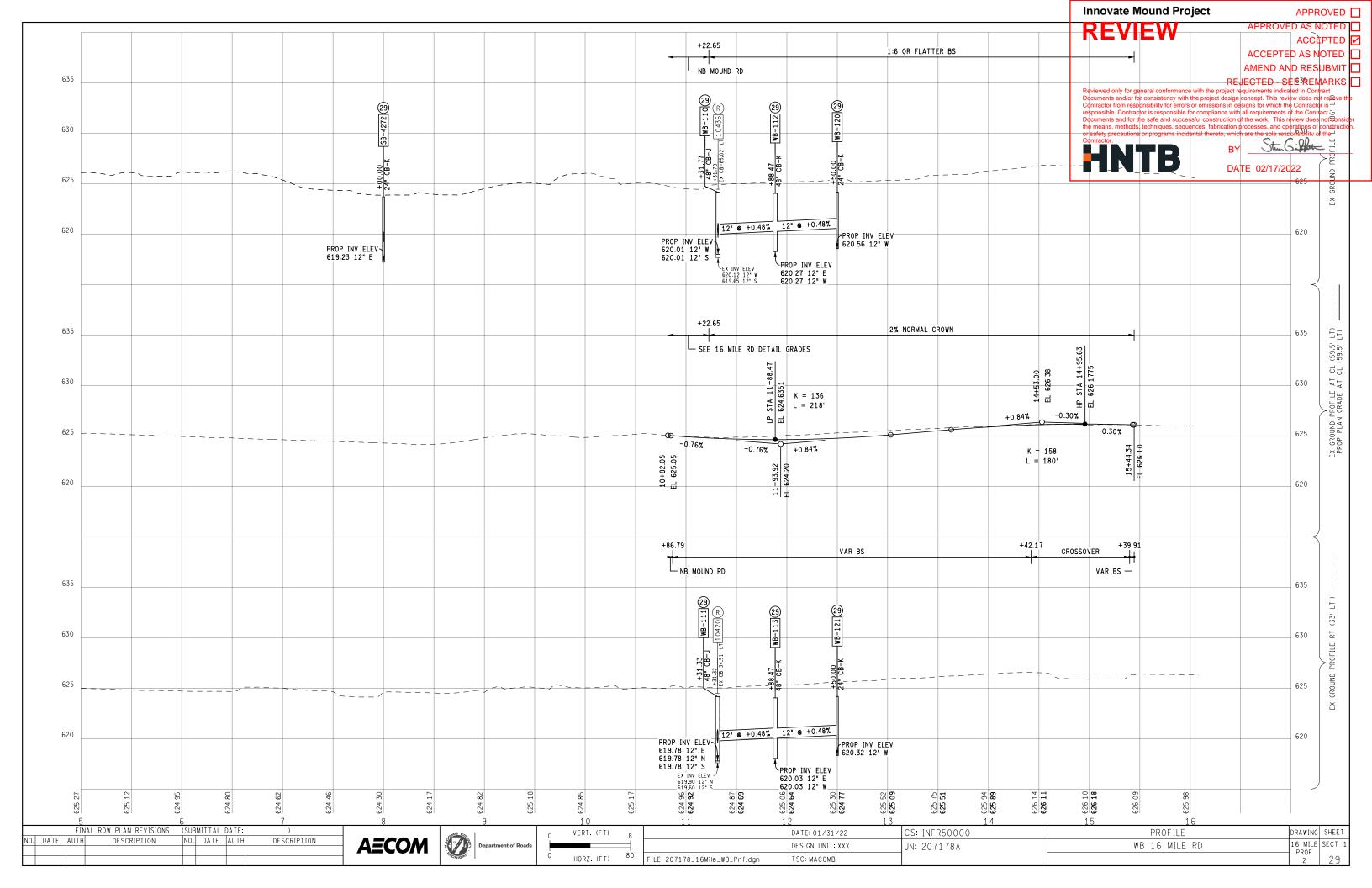
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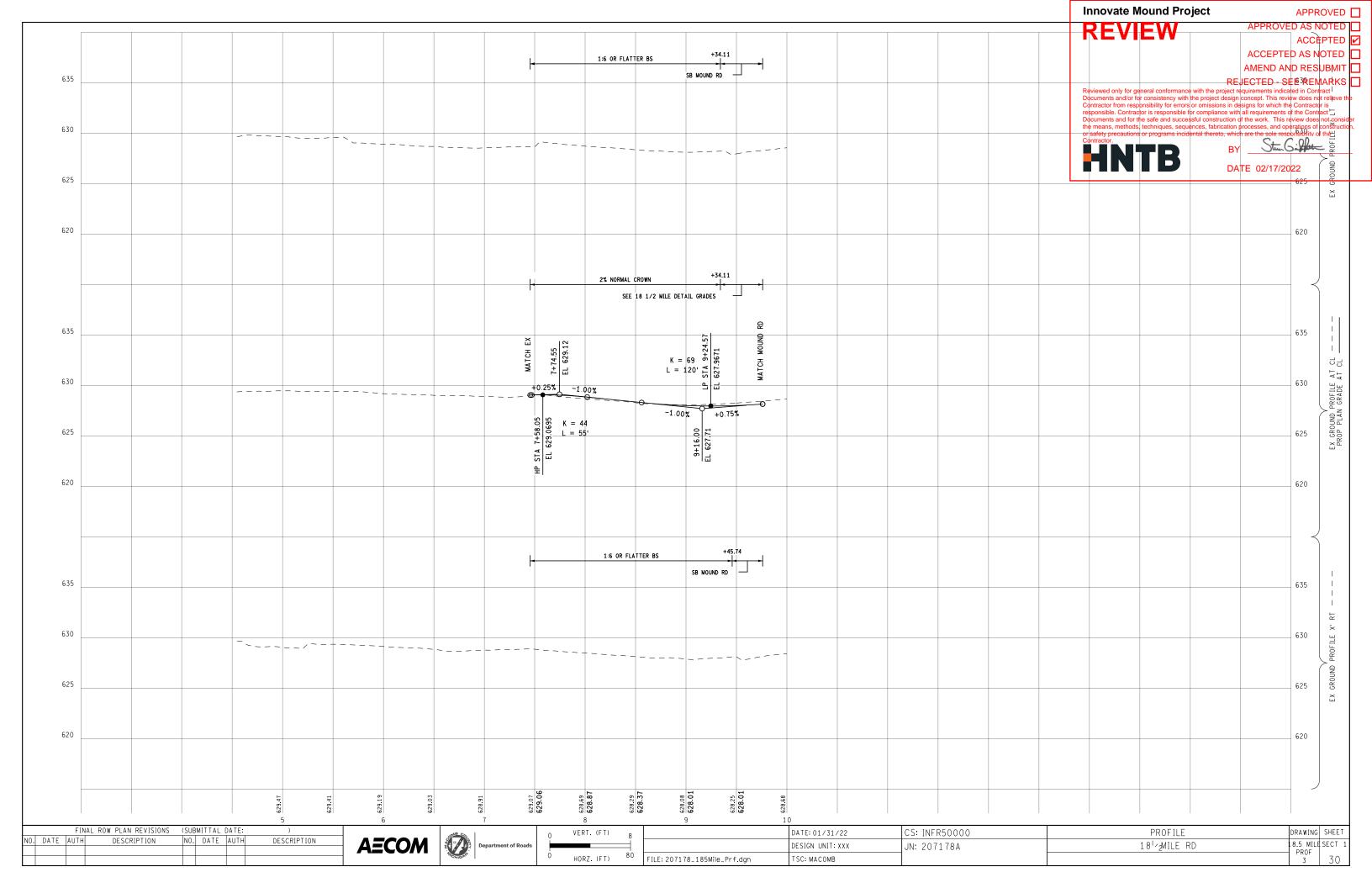
REJECTED - SEE REMARKS

DATE 02/17/2022

AMEND AND RESUBMIT







PLUM BROOK

APPROVED

ACCEPTED 🗹

ACCEPTED AS NOTED

AMEND AND RESUBMIT

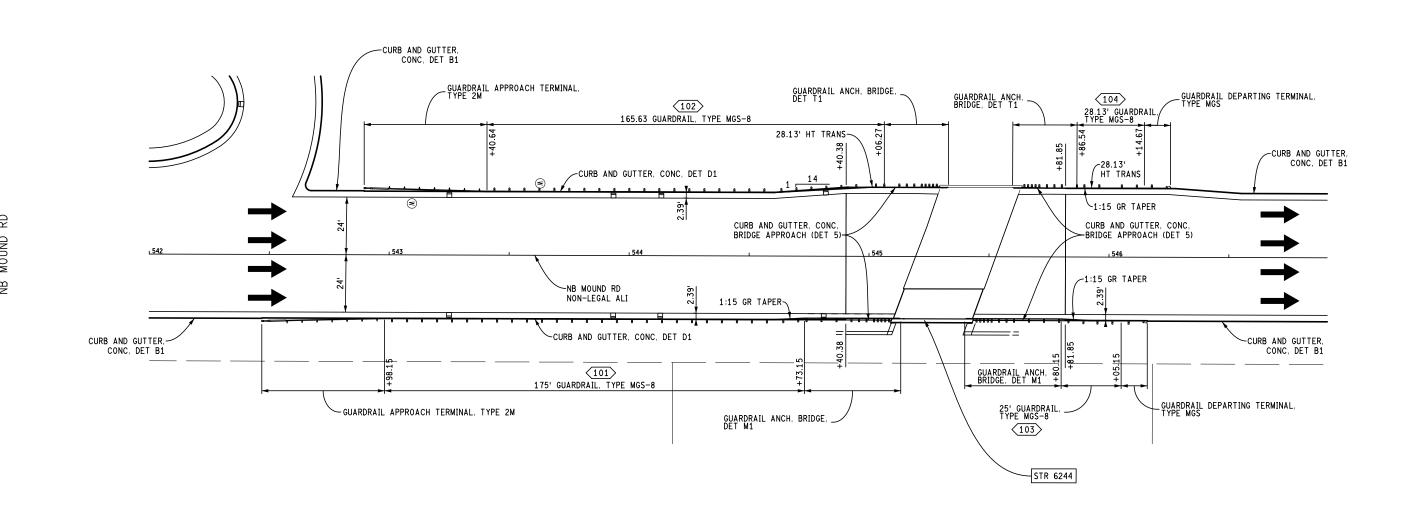
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numents and/or for consistency with the project design concept. This review does not relieve the tractor from responsibility for errors or some second project of the Contractor is sonsible. Contractor is responsible for compliance with all for expensements of the Contract ruments and for the safe and successful construction of the work. This review does not considmeans, methods, techniques, sequences, fabrication processes, and operations of construction afety precautions or programs incidental thereto, which are the sole responsibility of the

HNTB

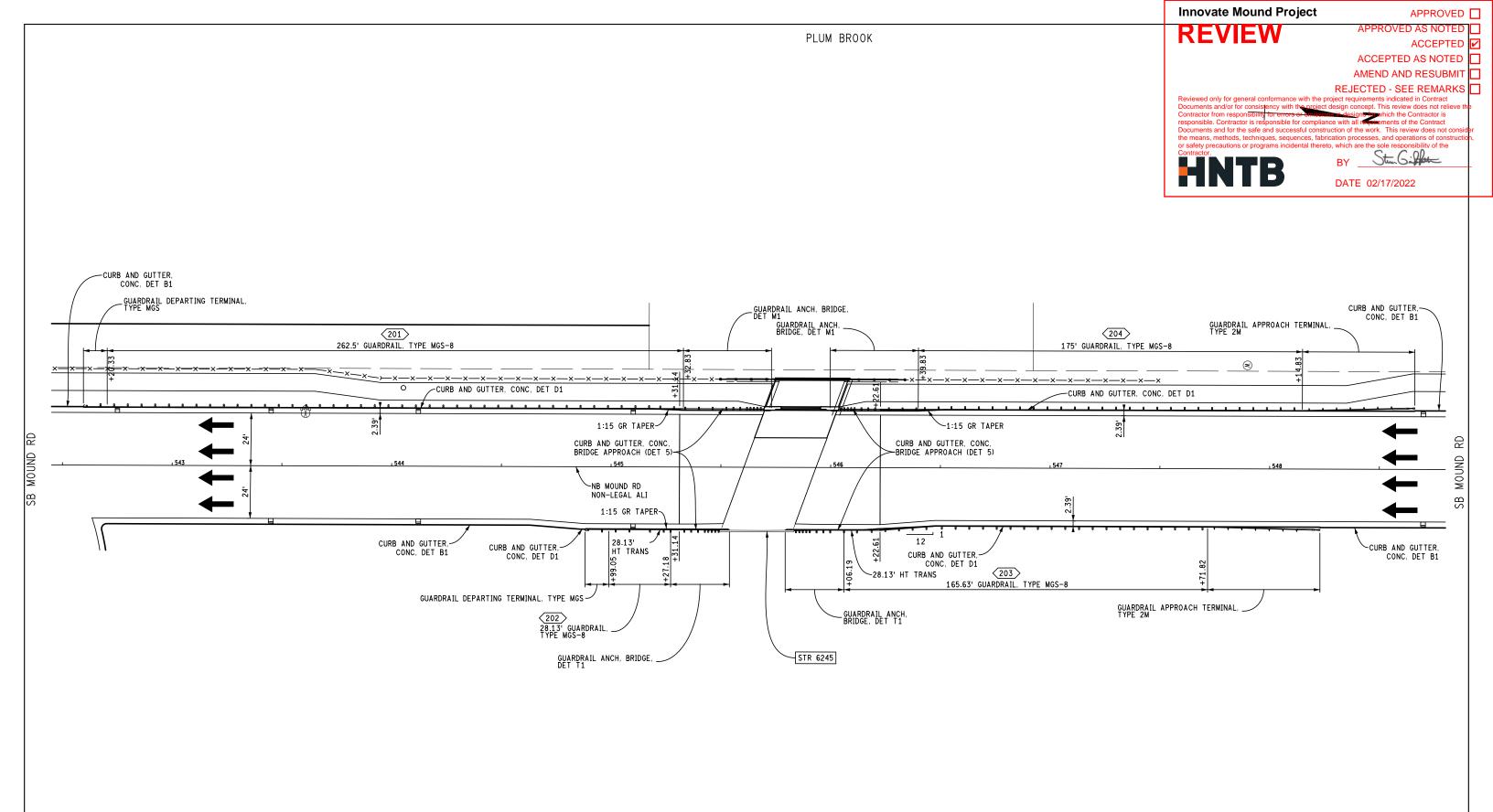
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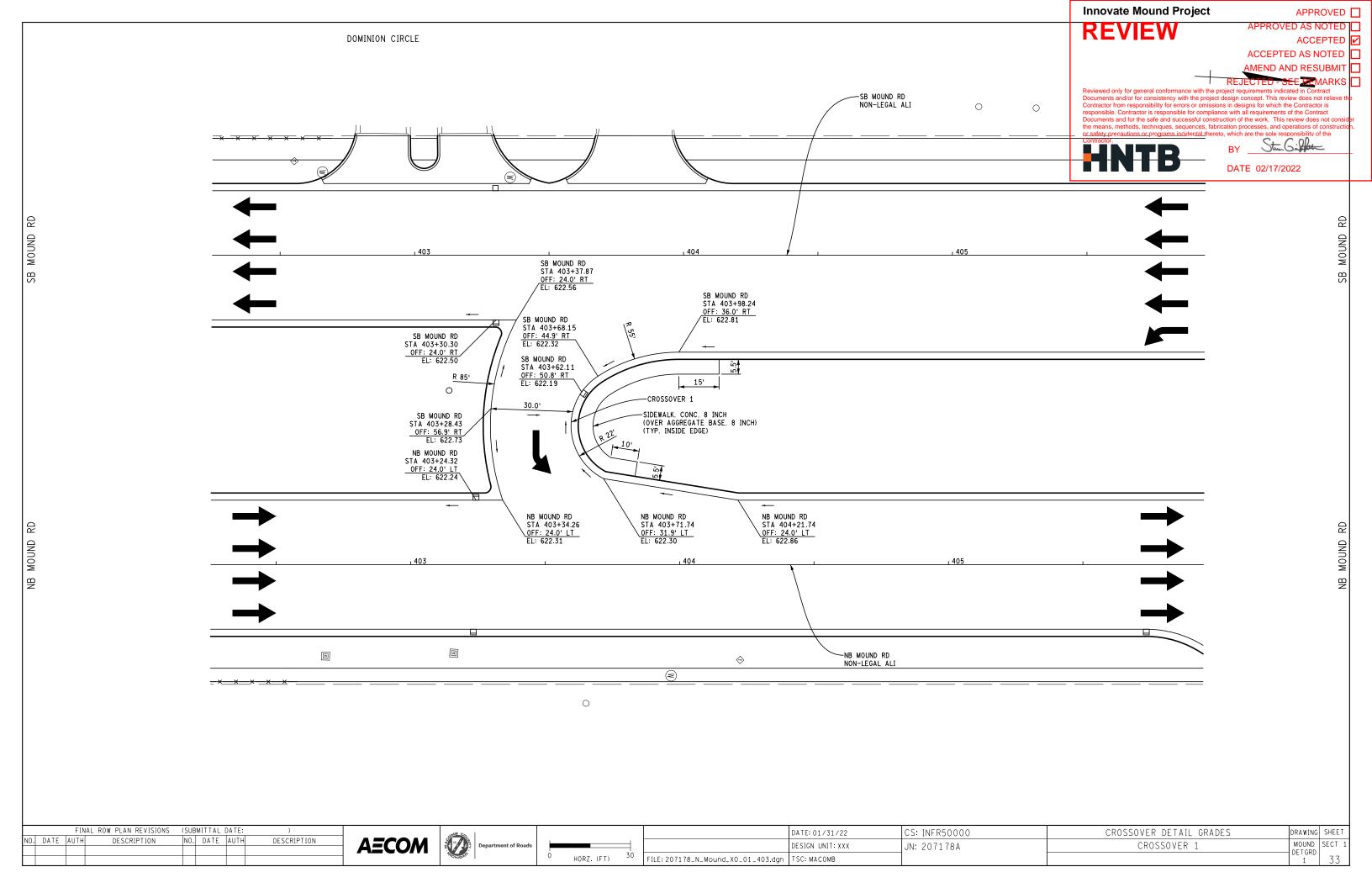
## PLUM BROOK

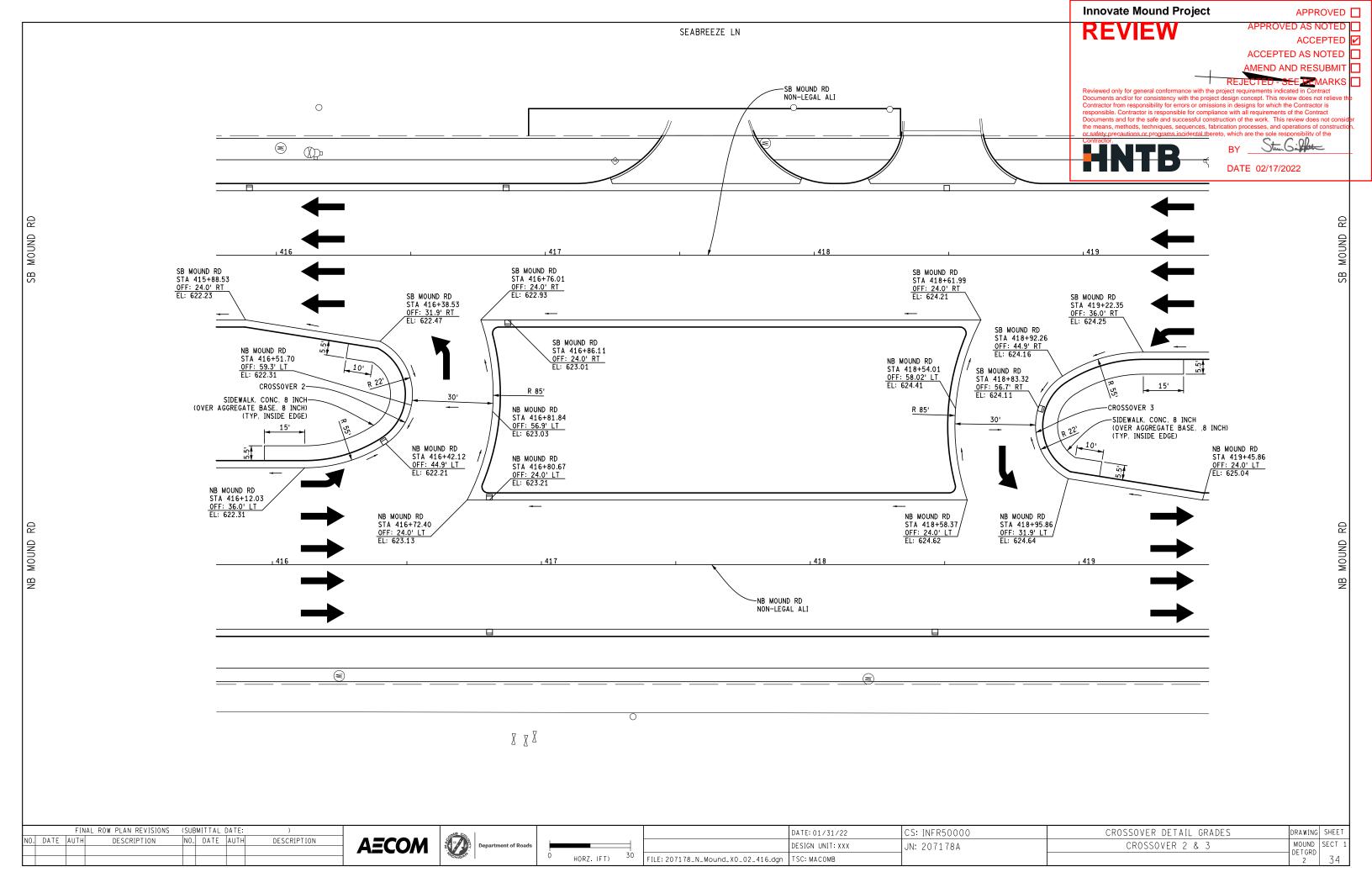
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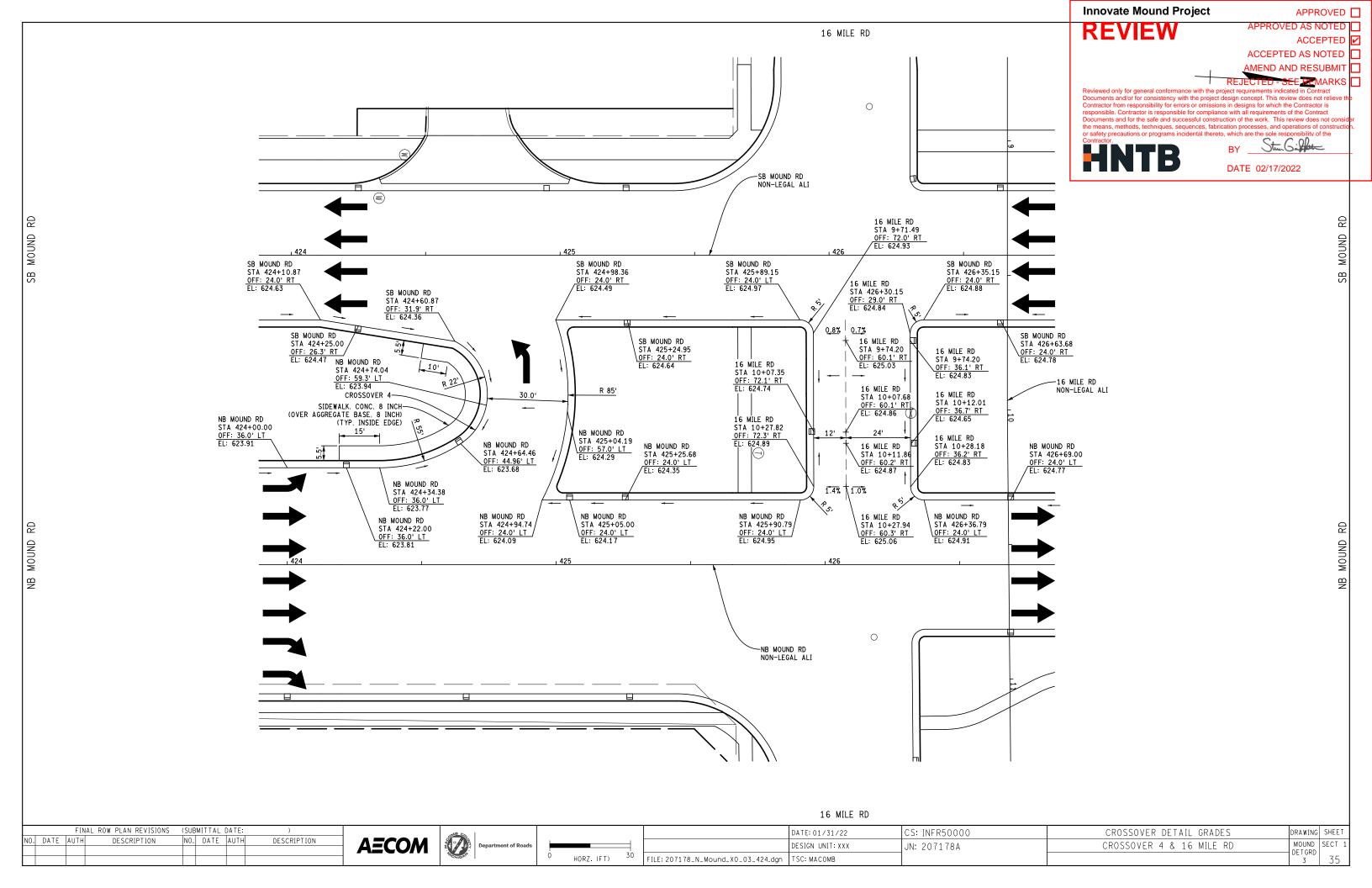


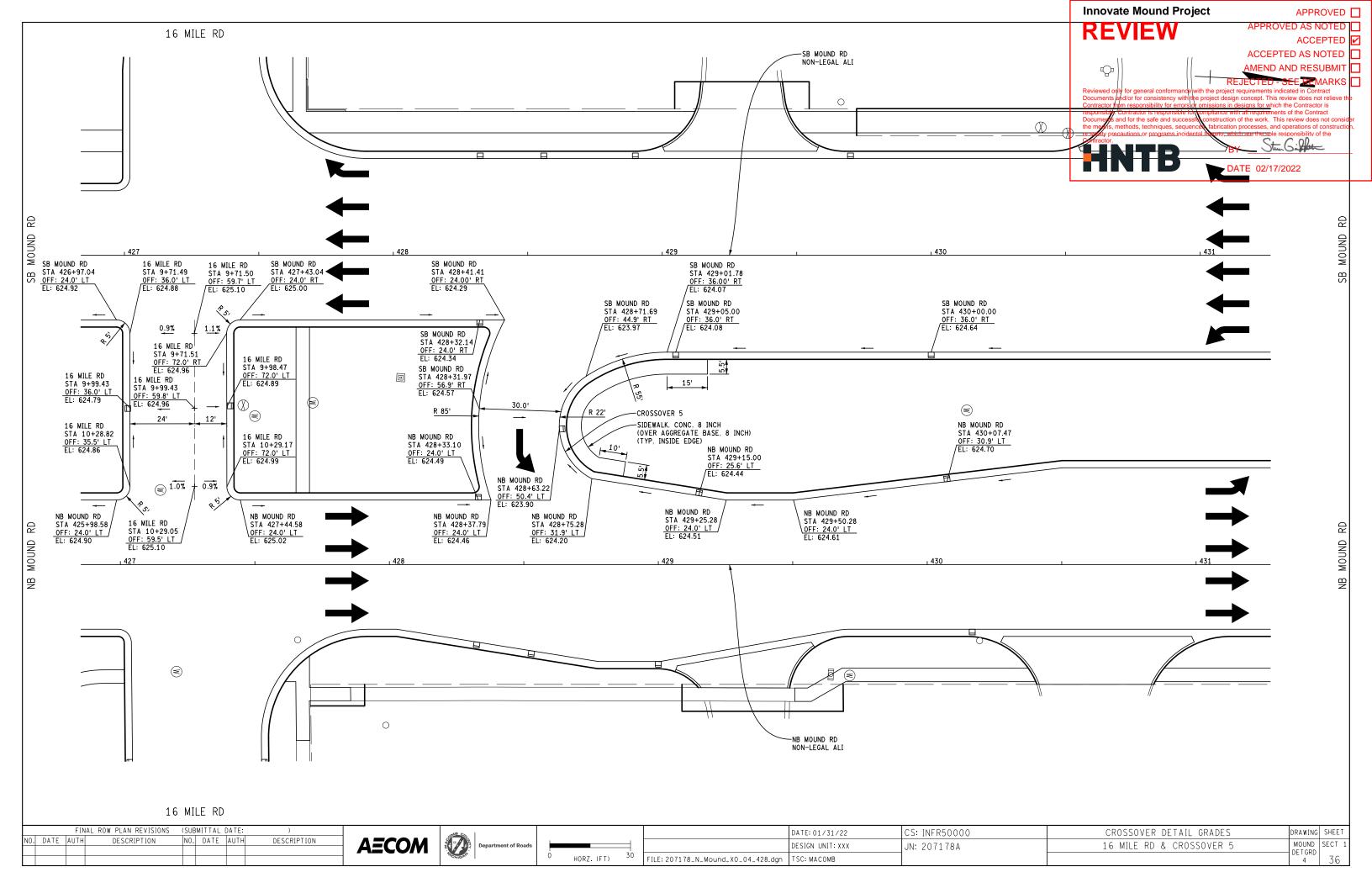
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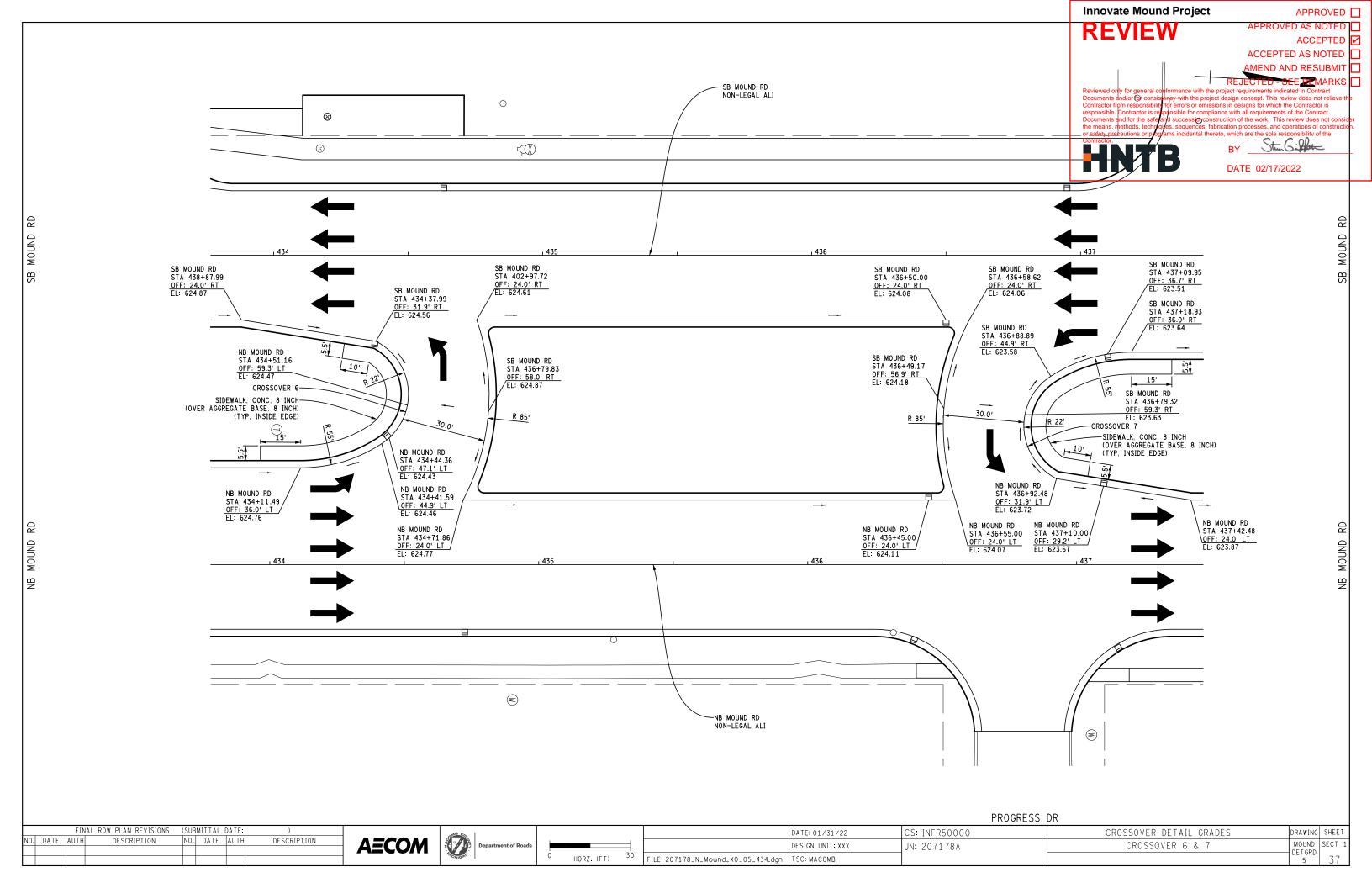
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NO.	DATE AUTH	DESCRIPTION	NO. DATE AUTH	DESCRIPTION	<b>AECOM</b>	Department of Roads		DESIGN UNIT: XXX	JN: 207178A		MOUND	SECT 1
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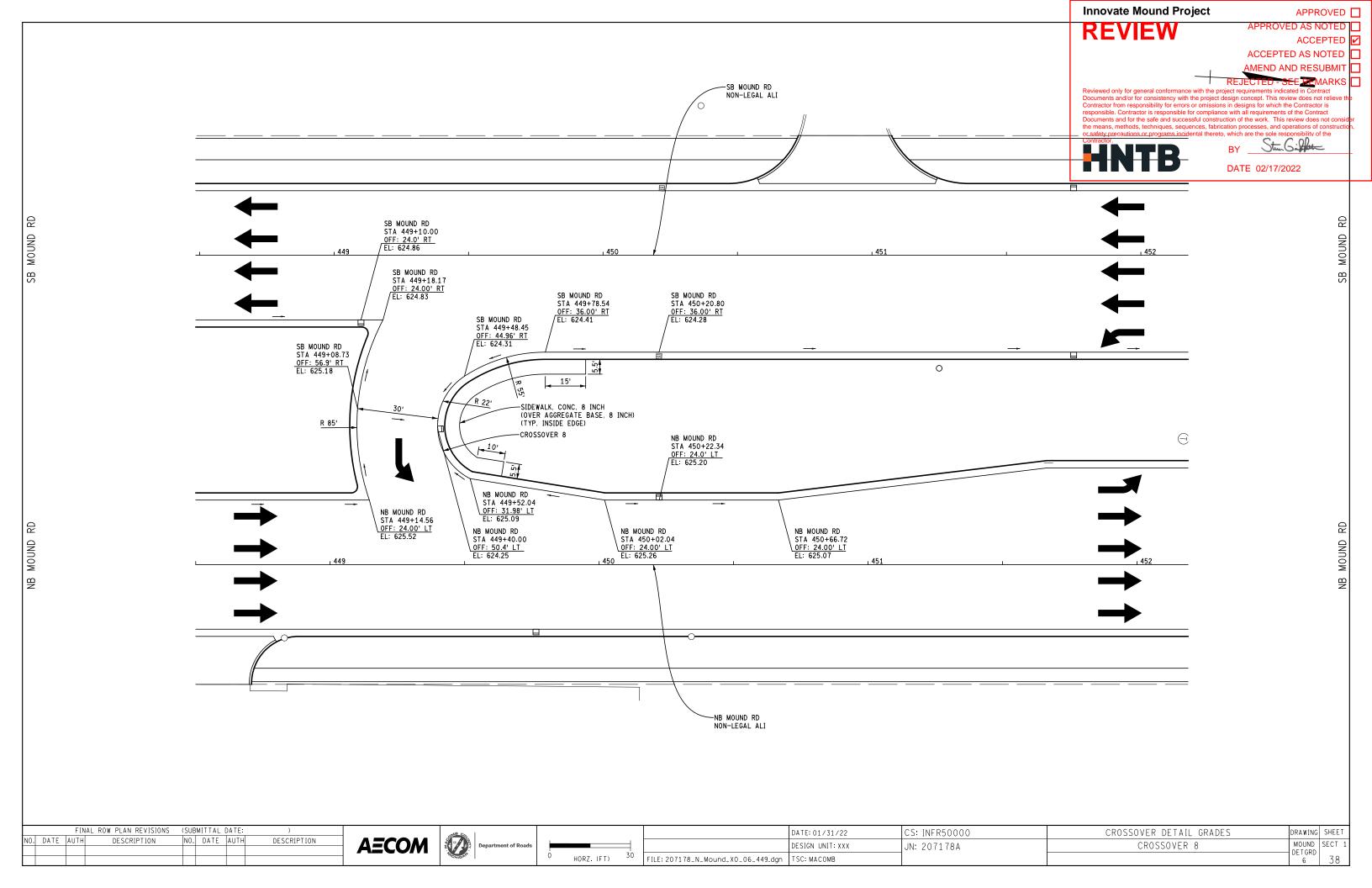


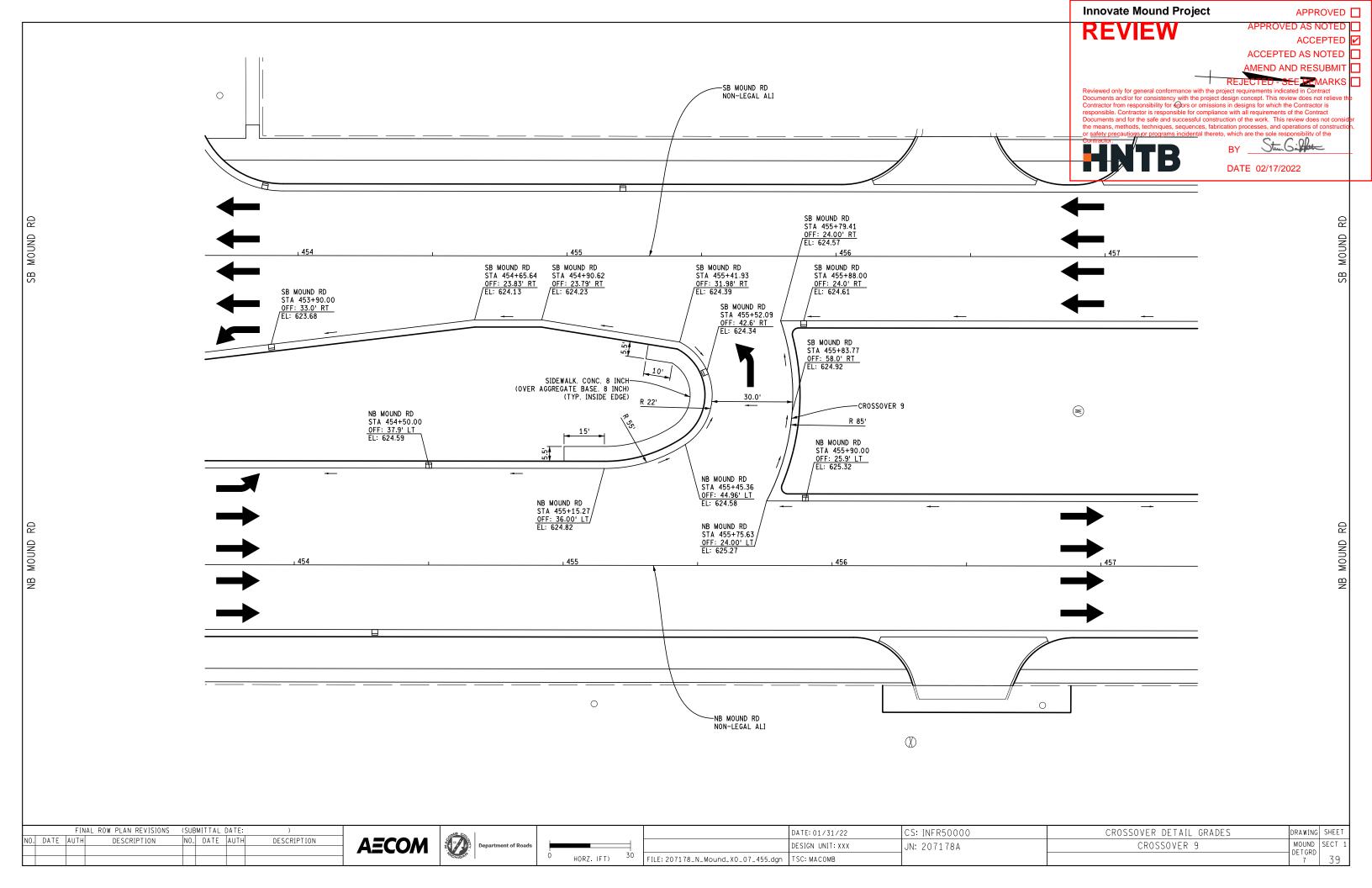


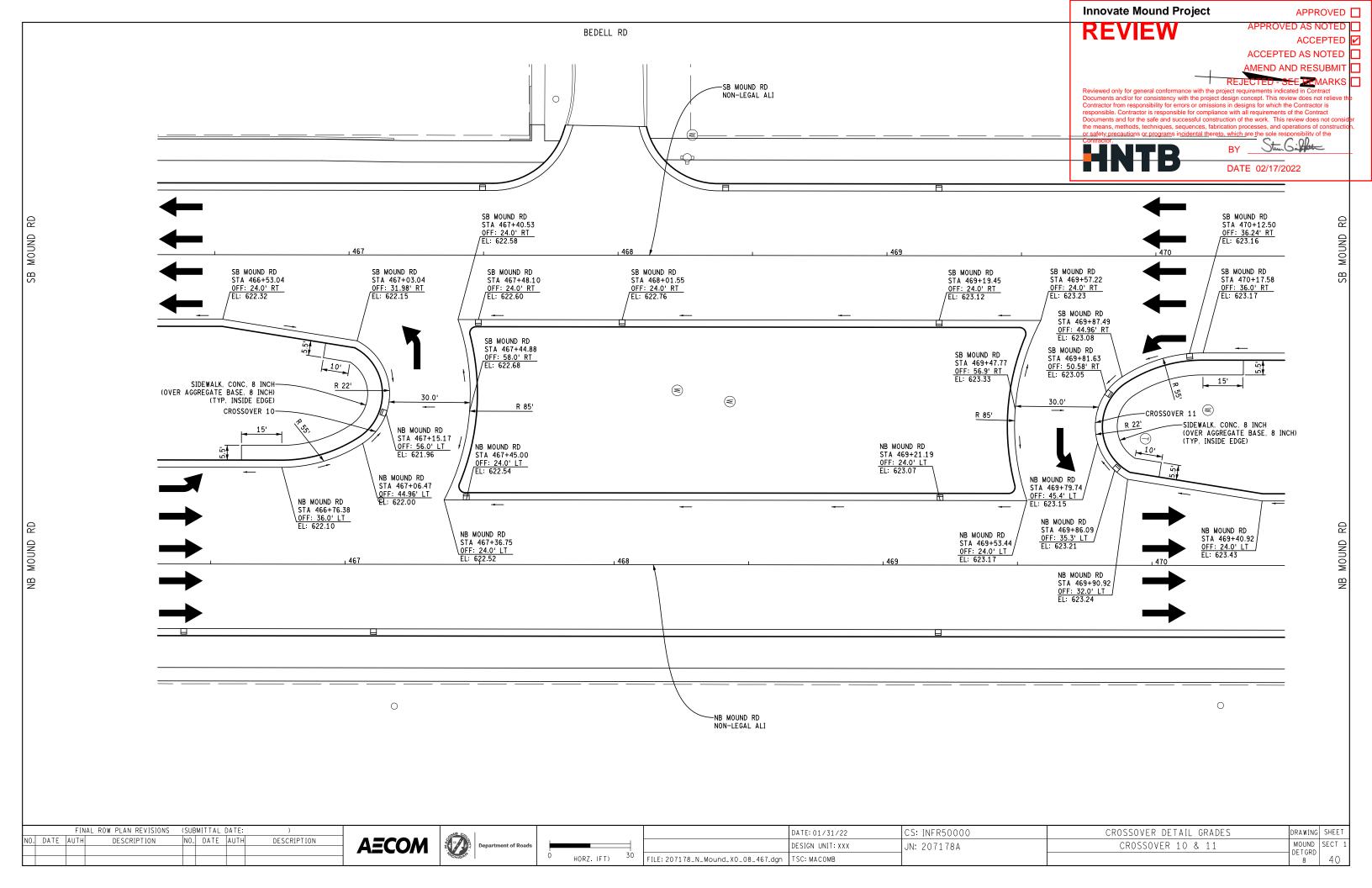


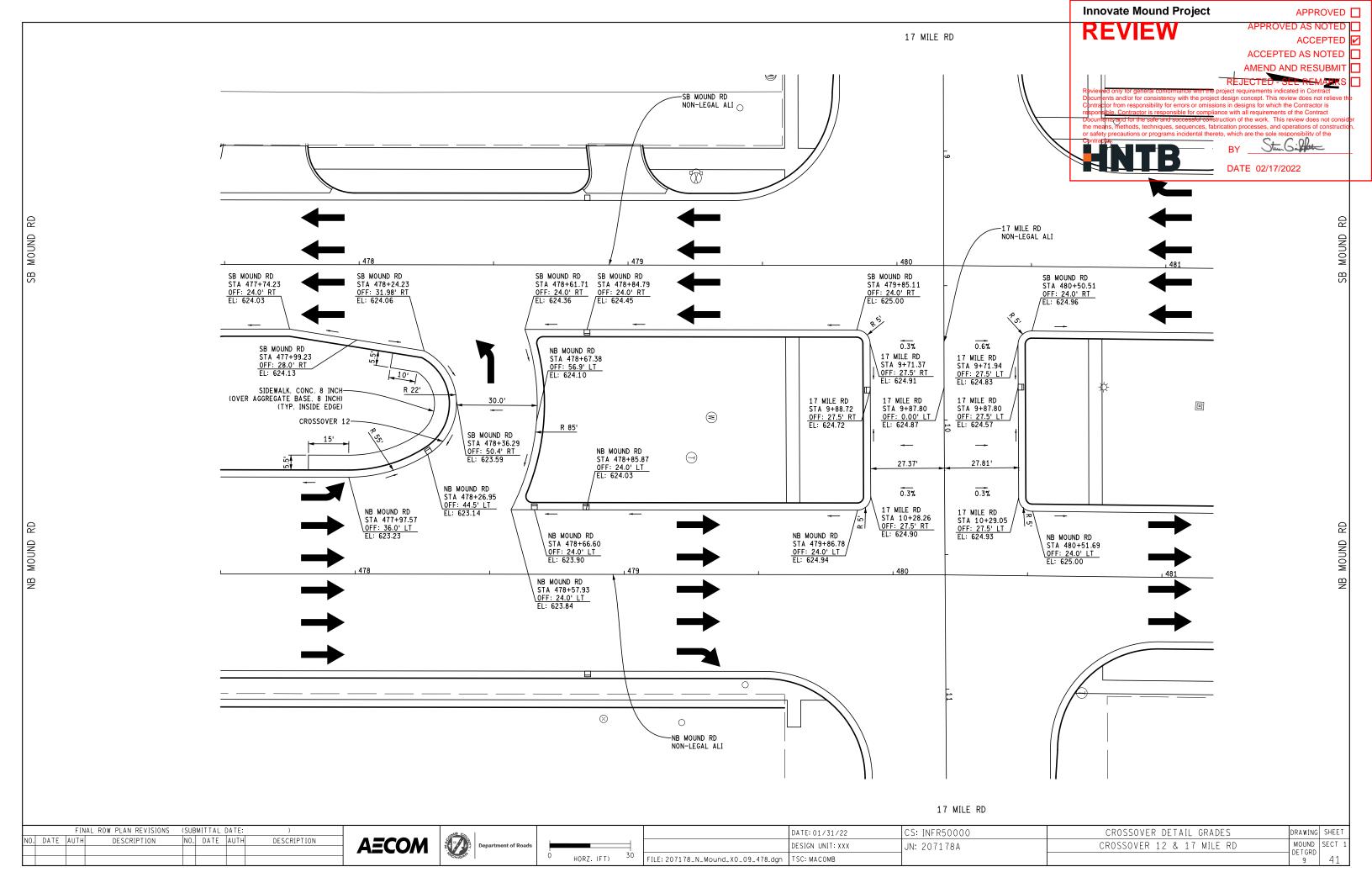


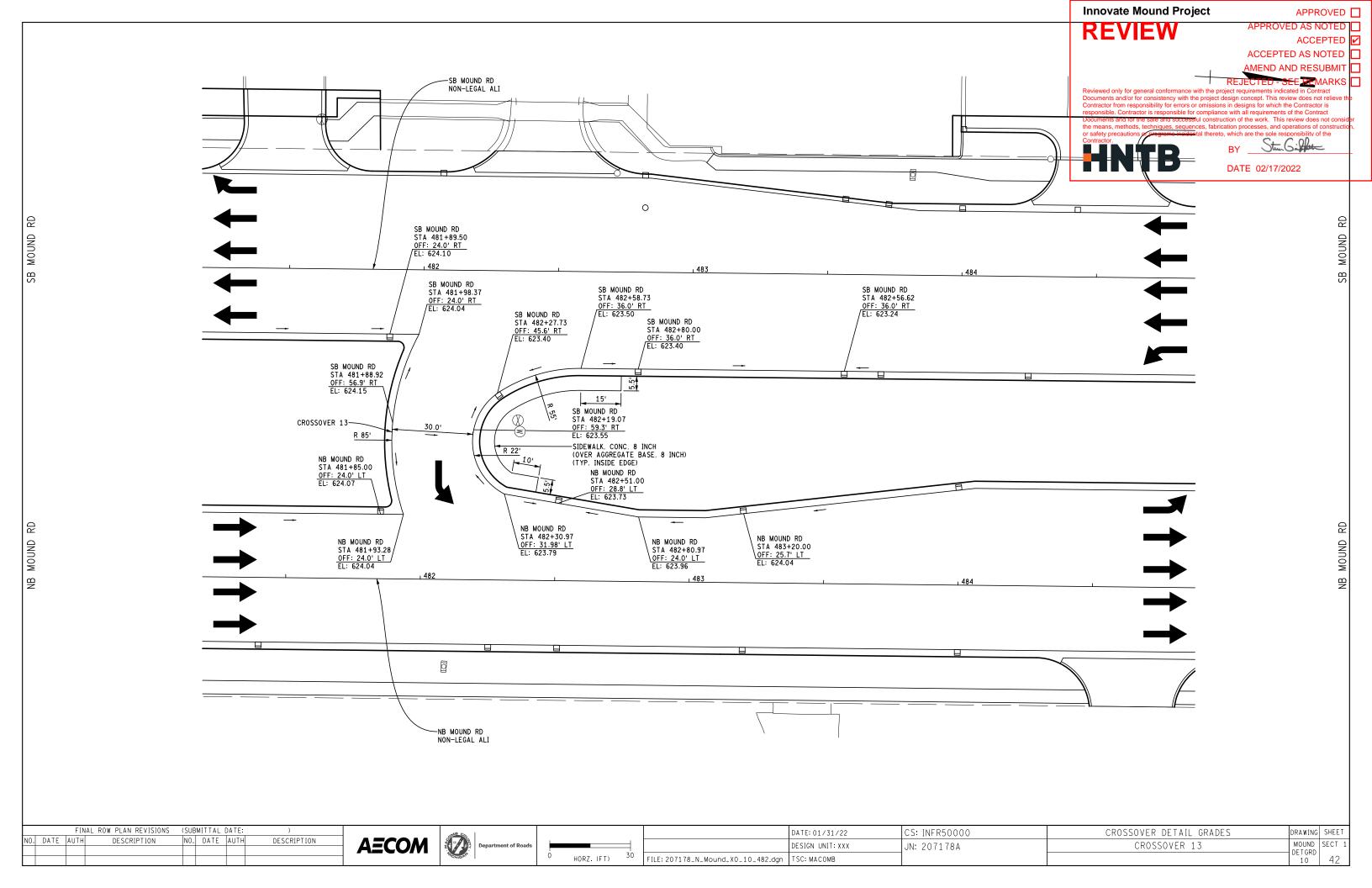


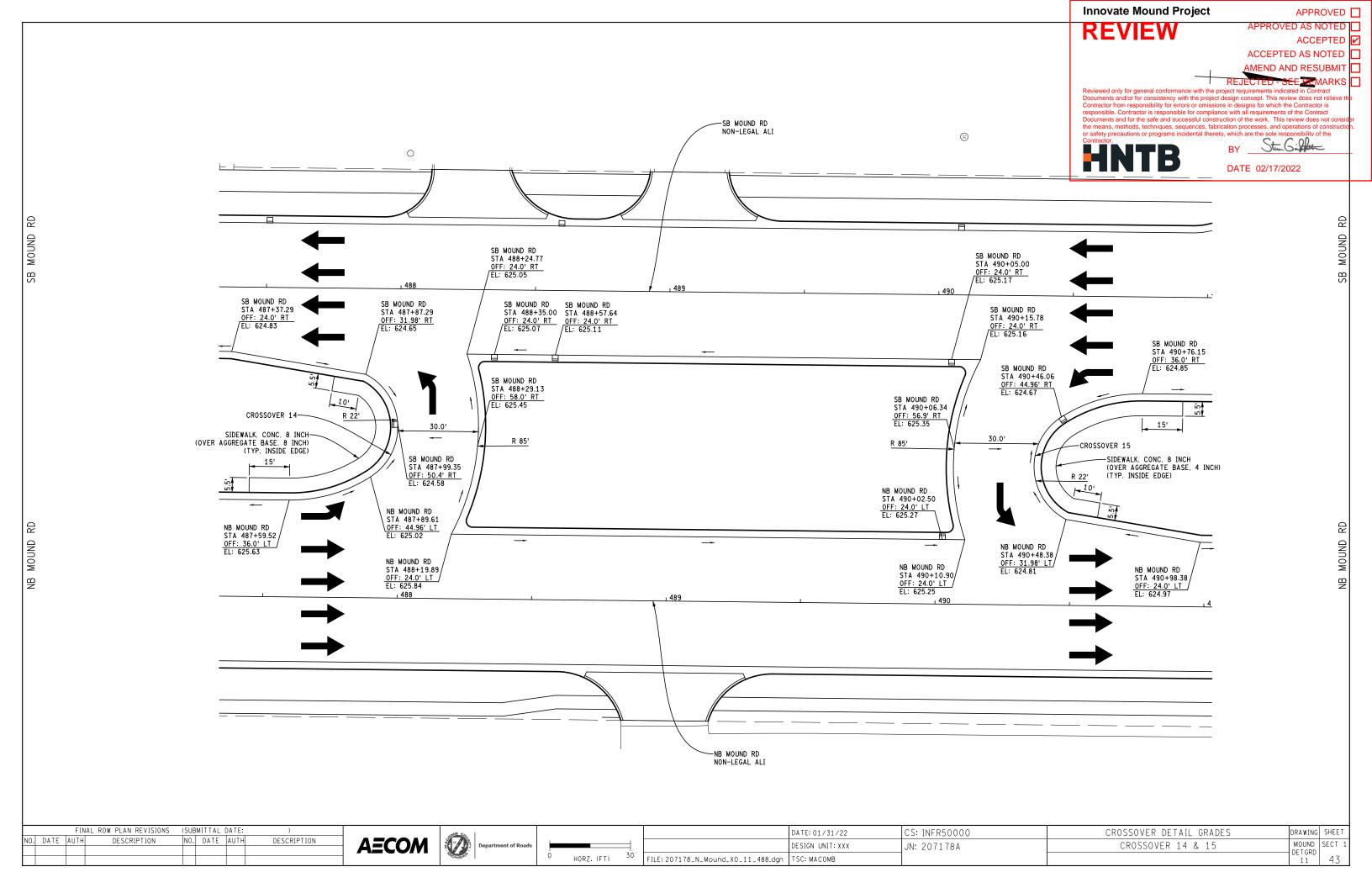


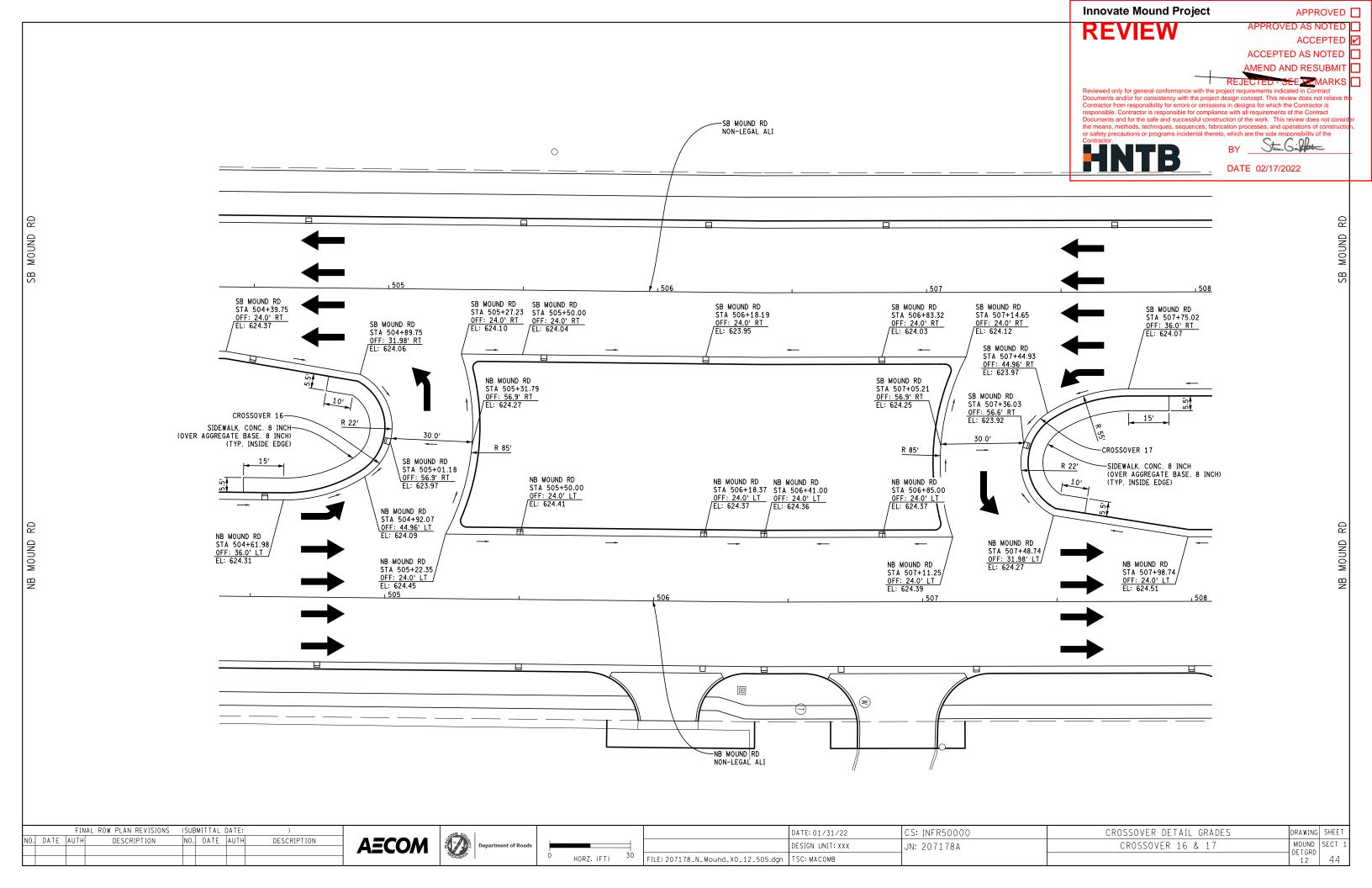


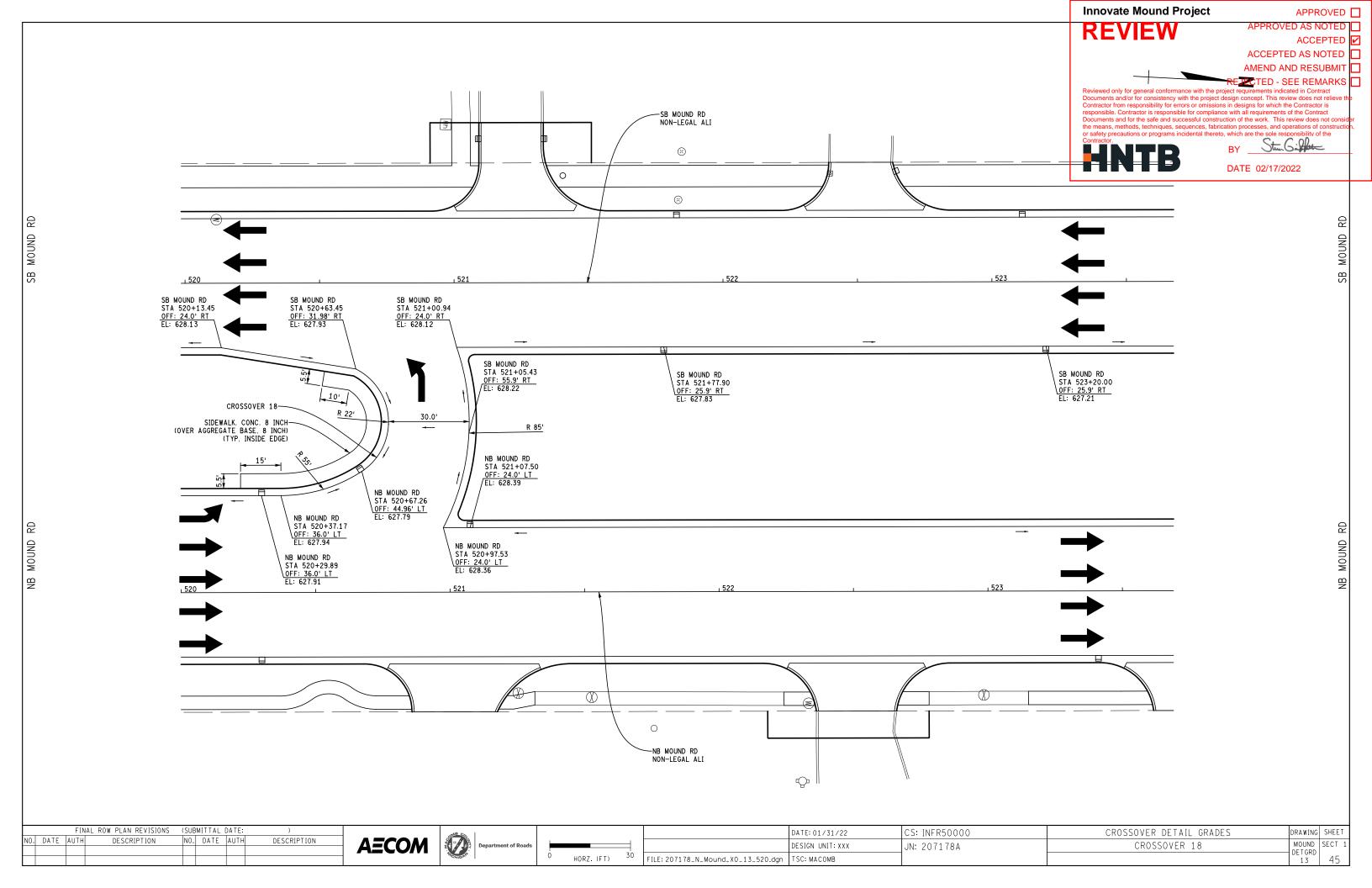


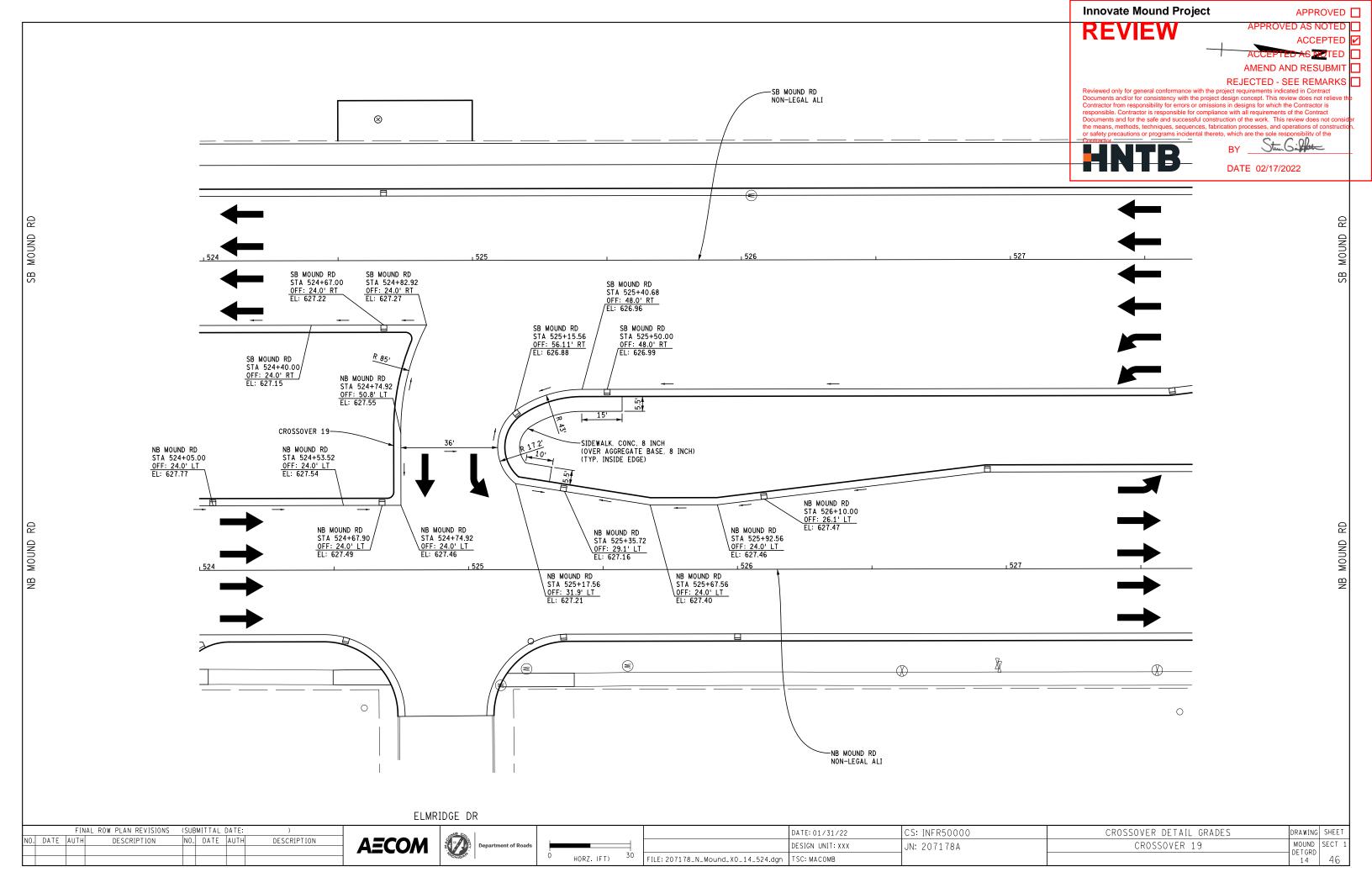


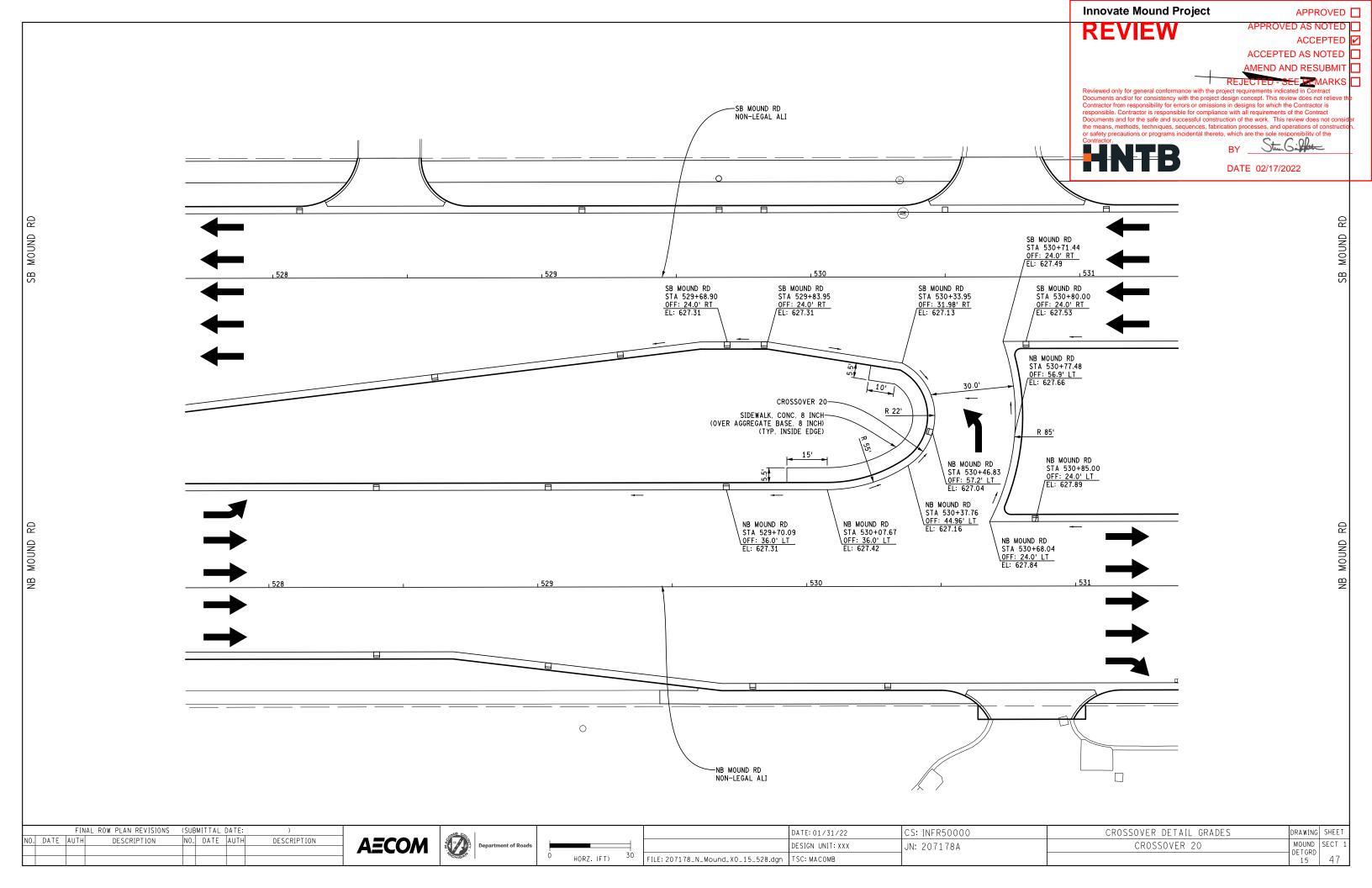


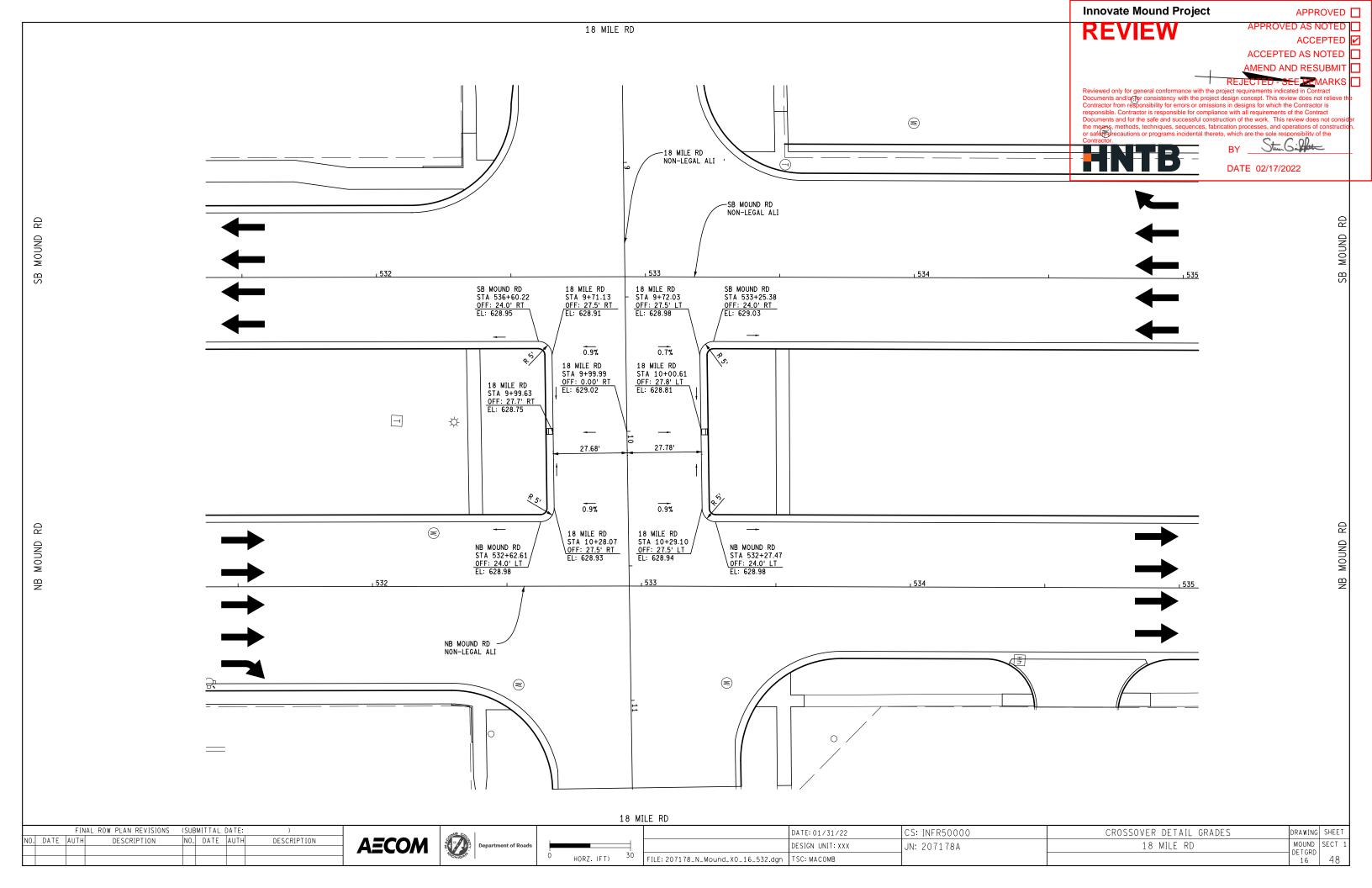


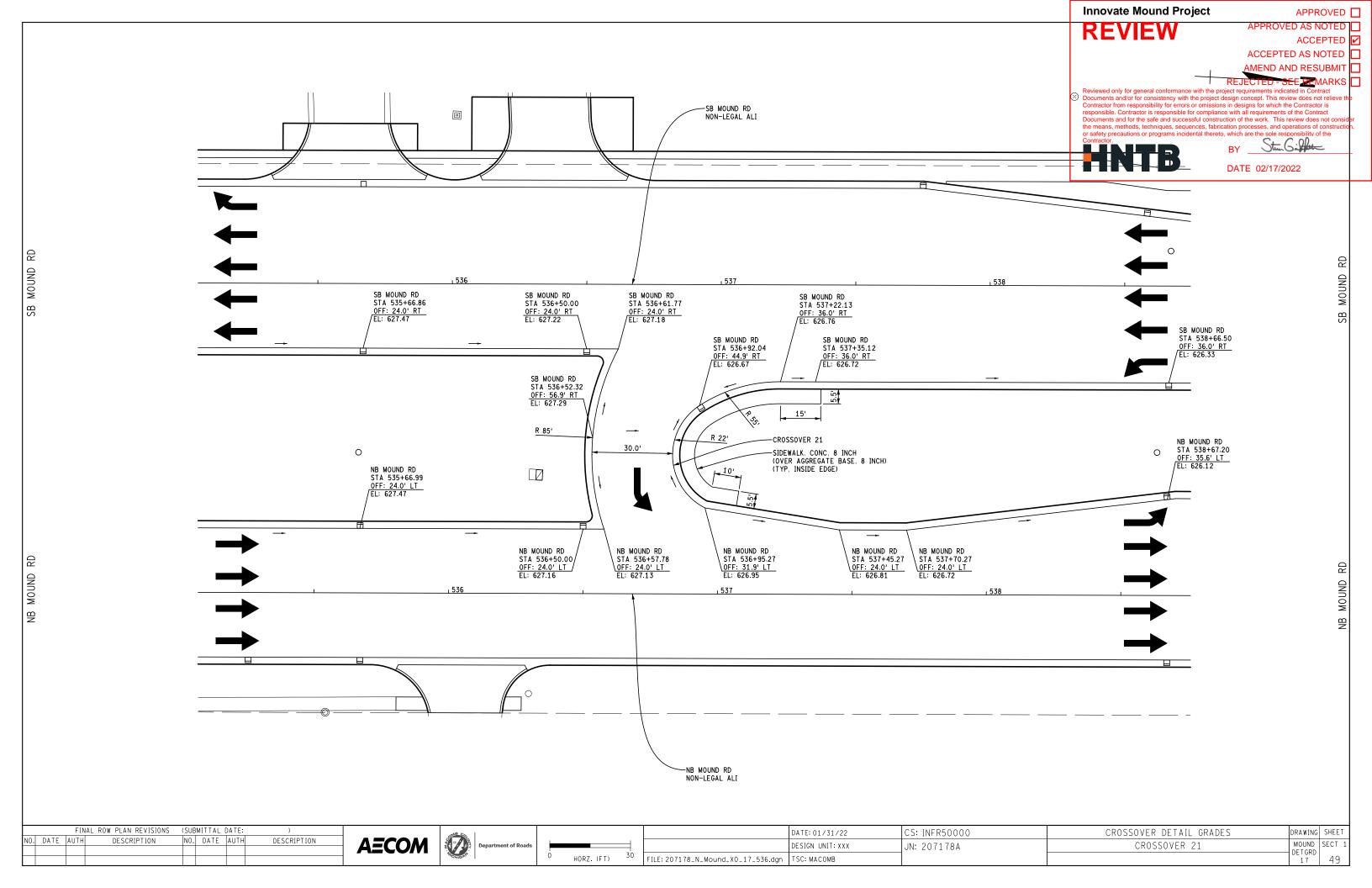


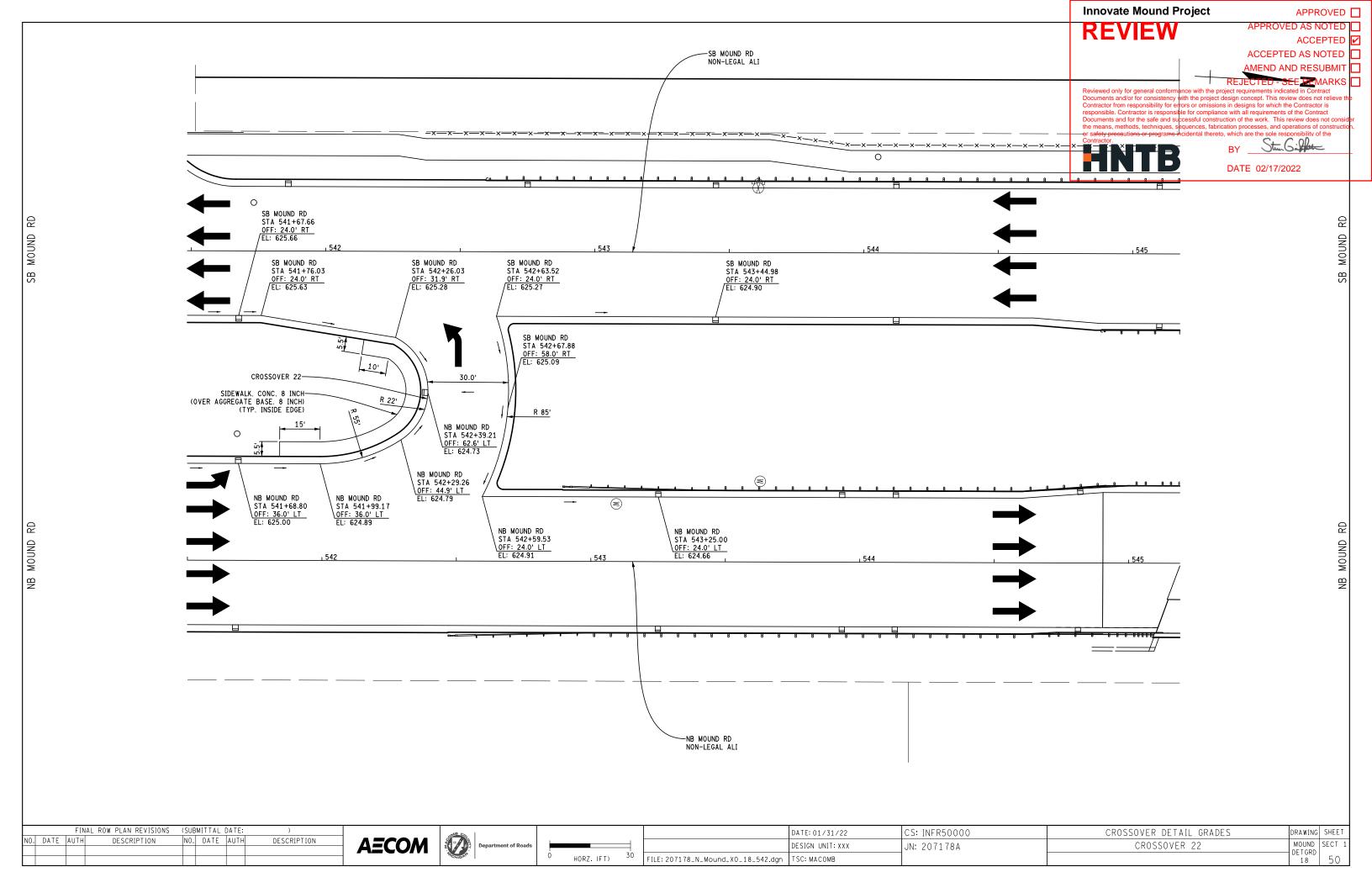


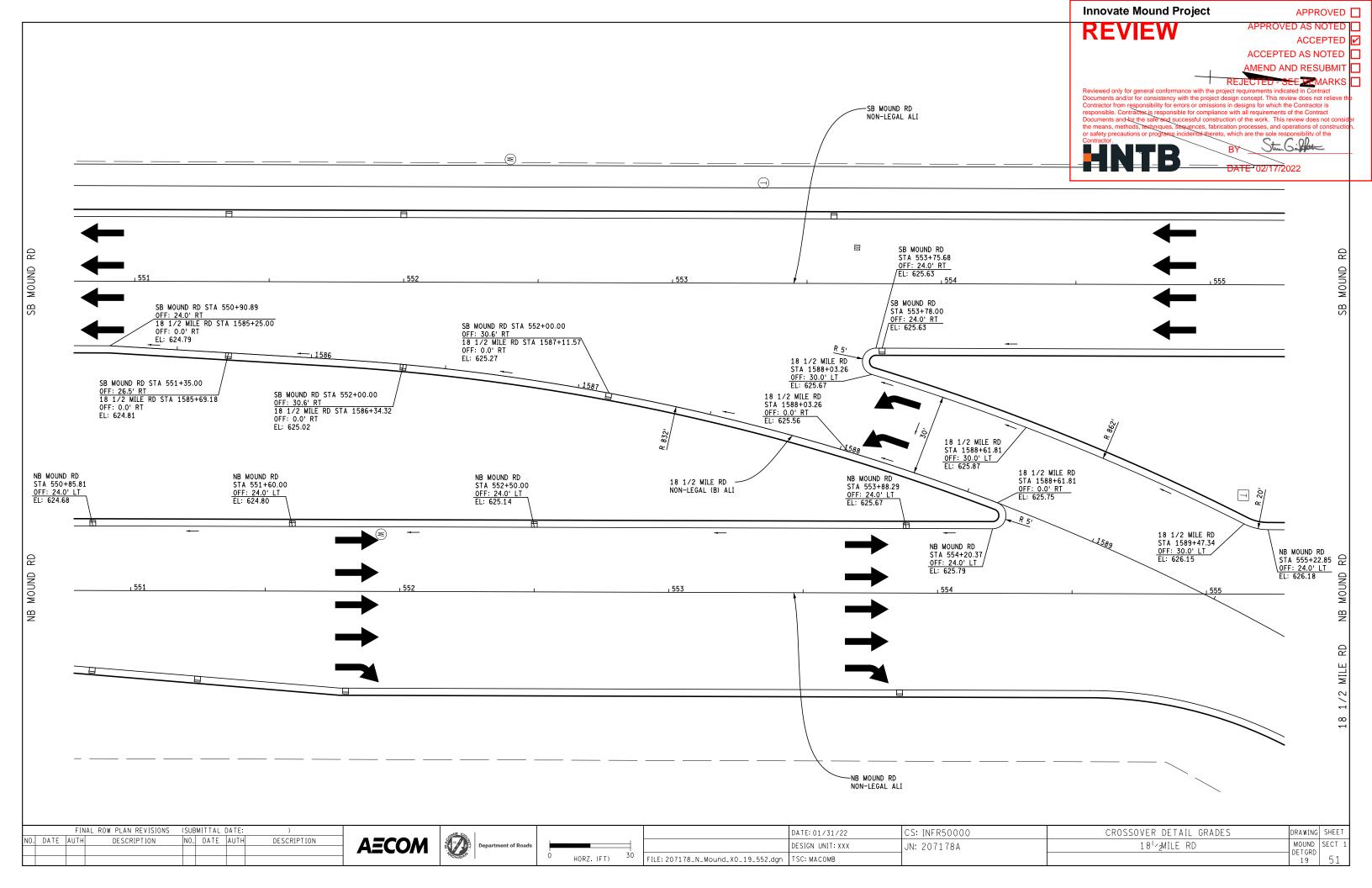


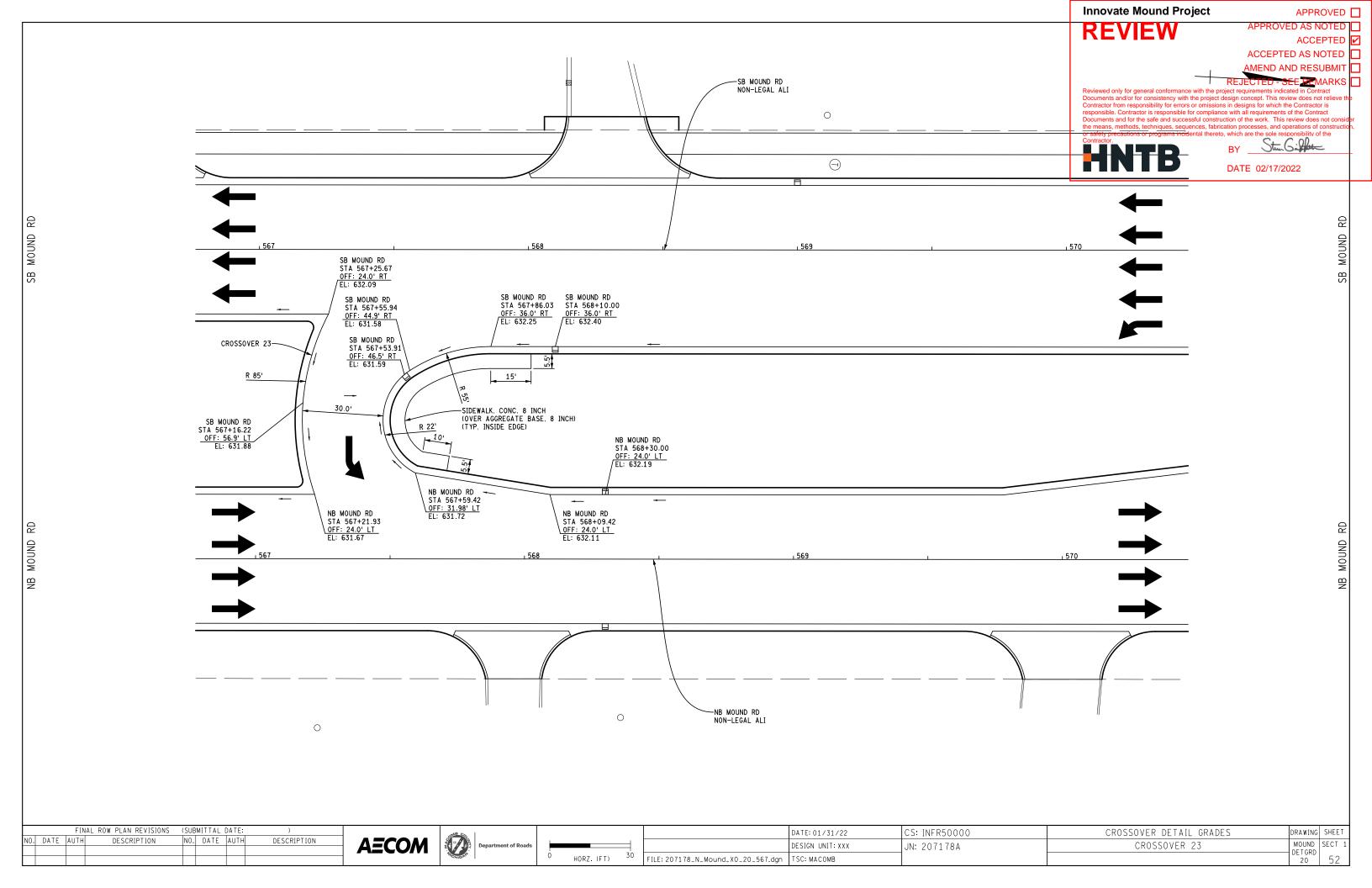


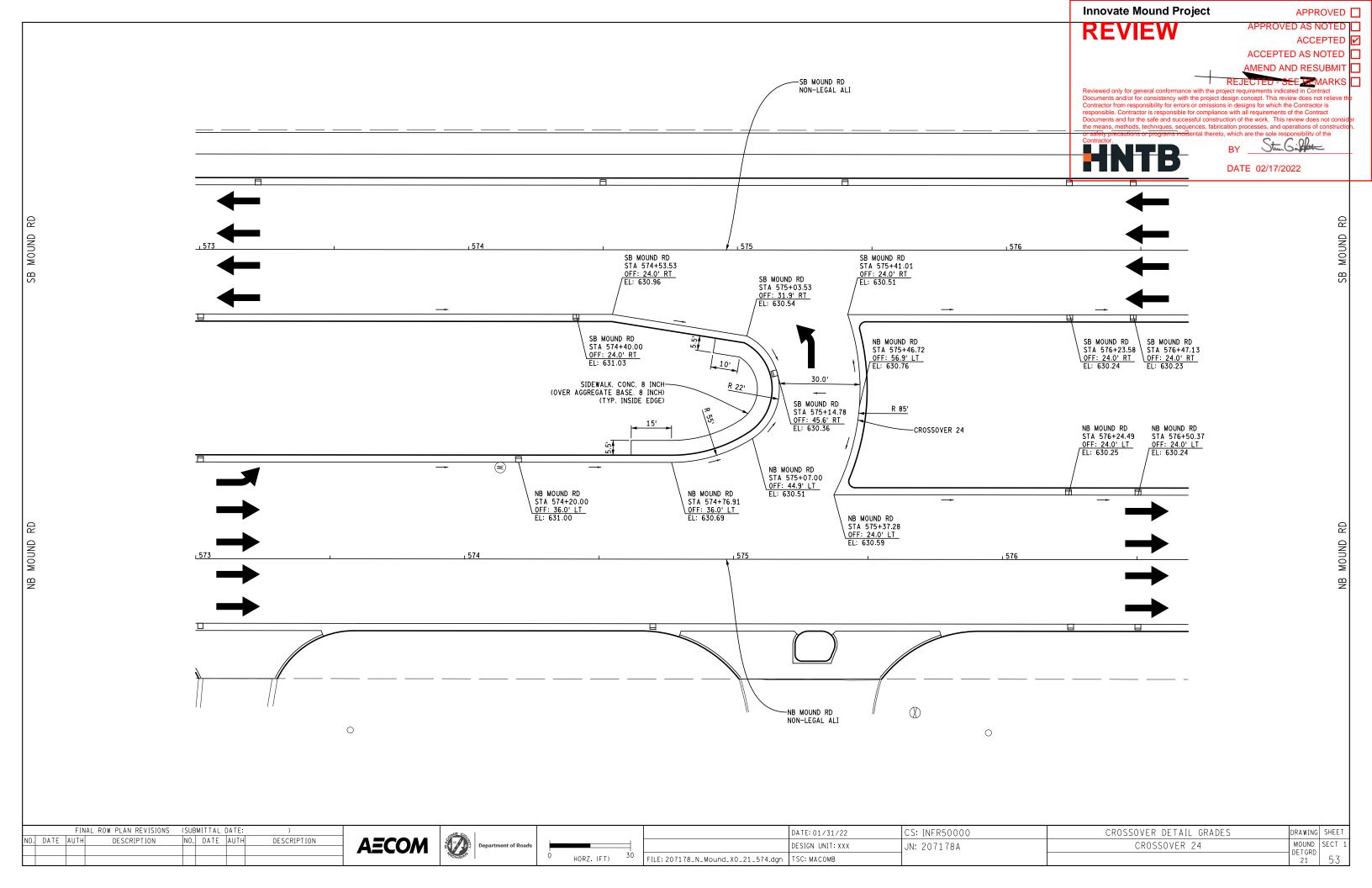


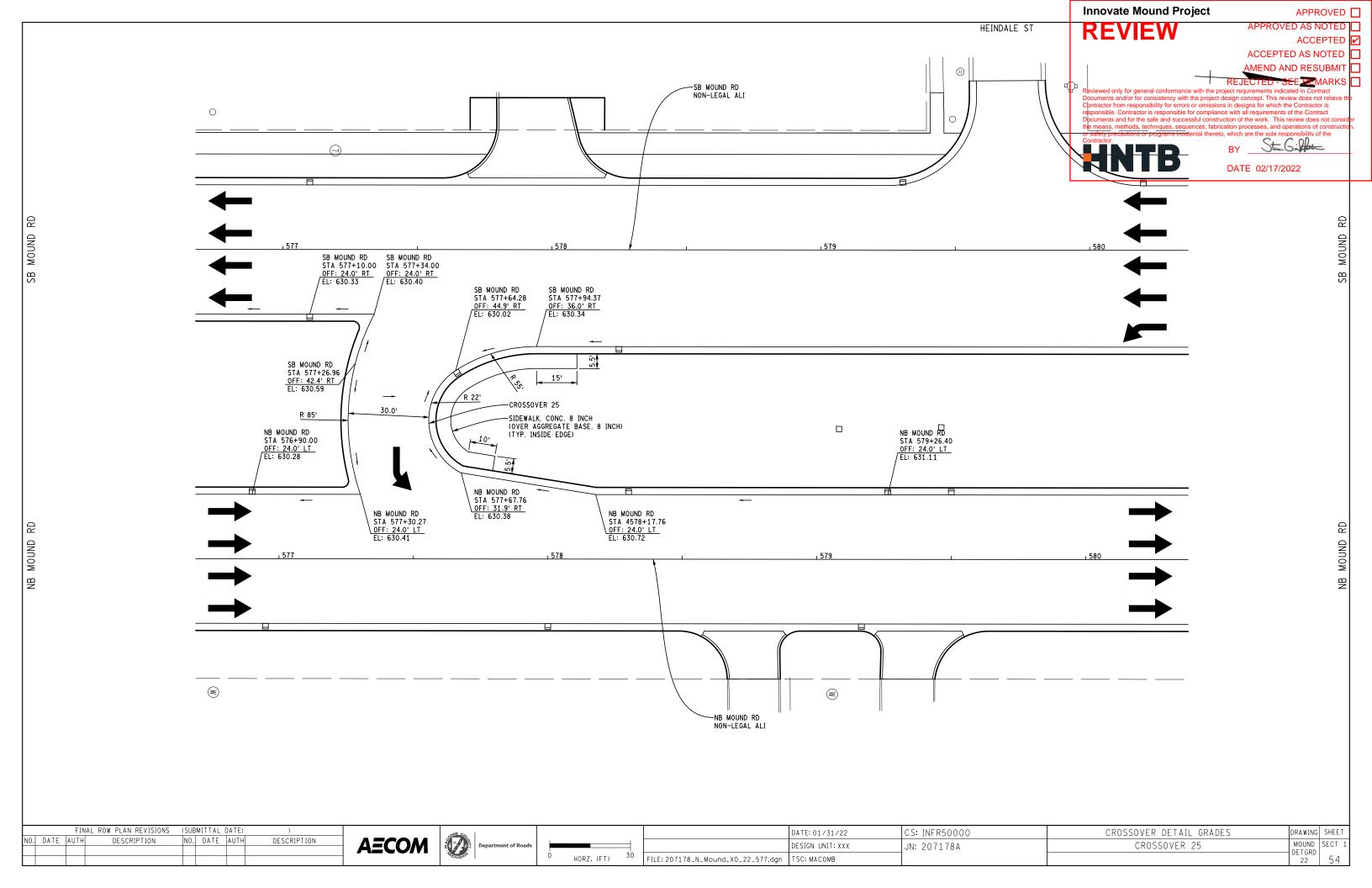


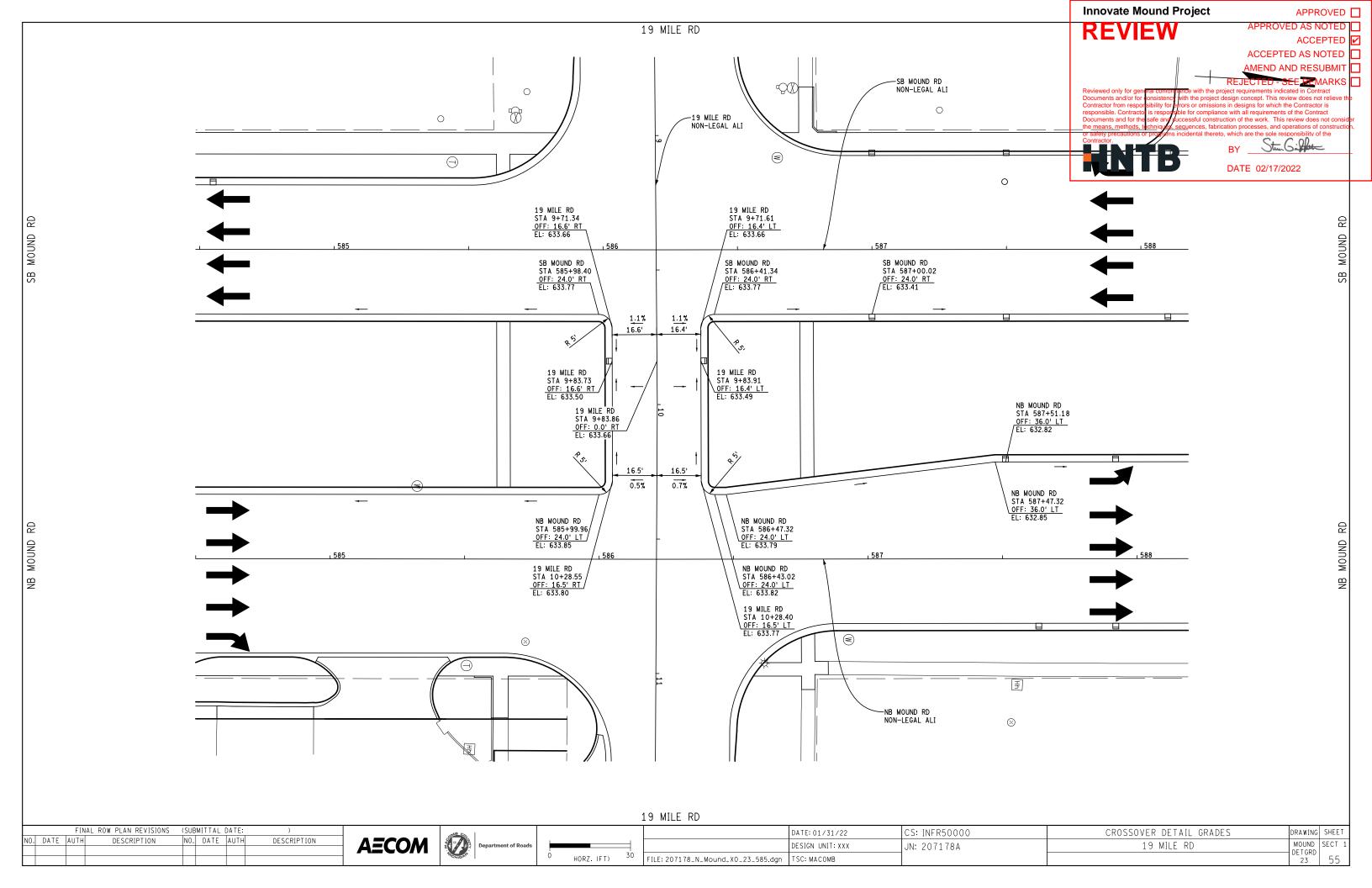


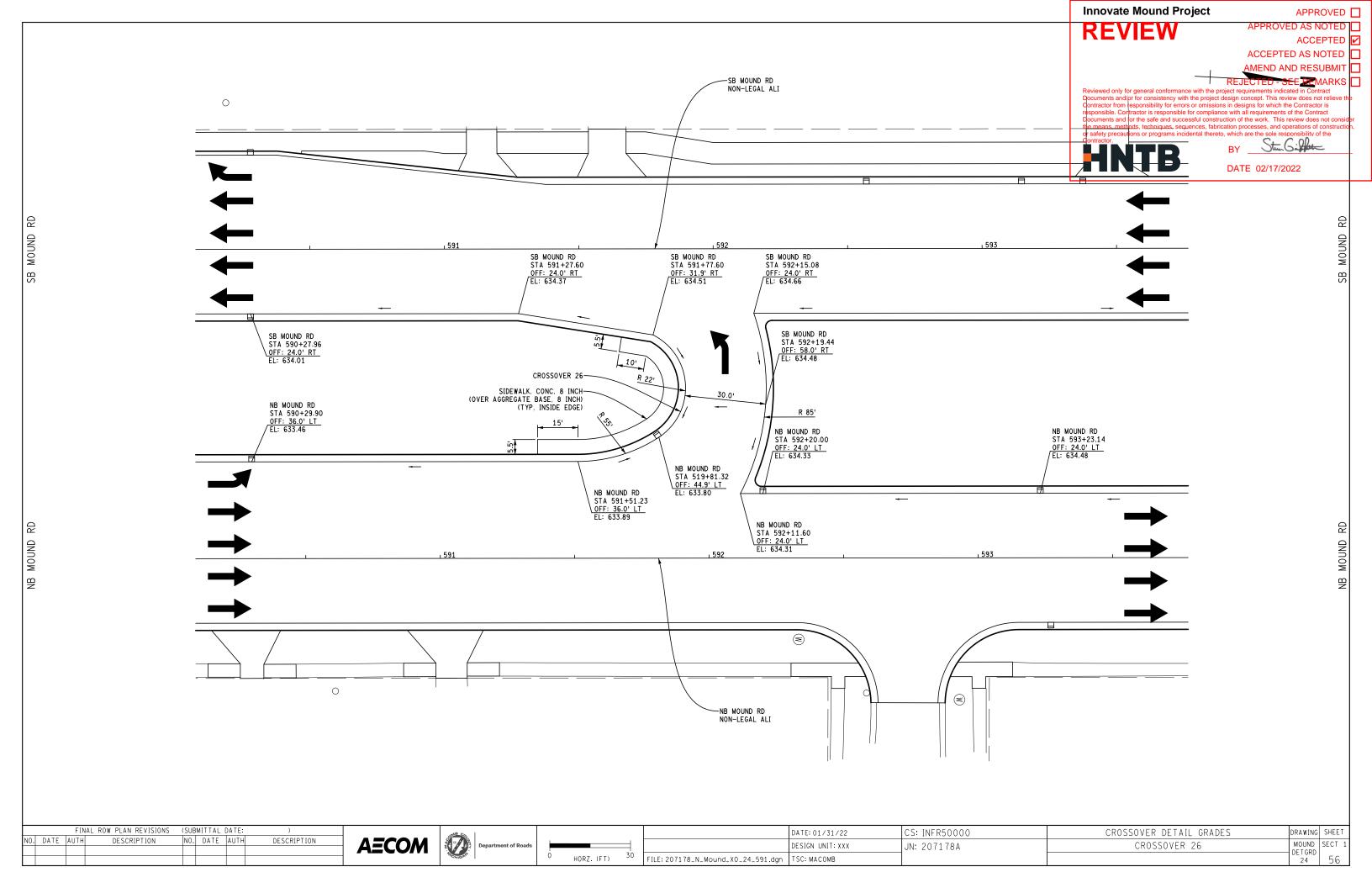


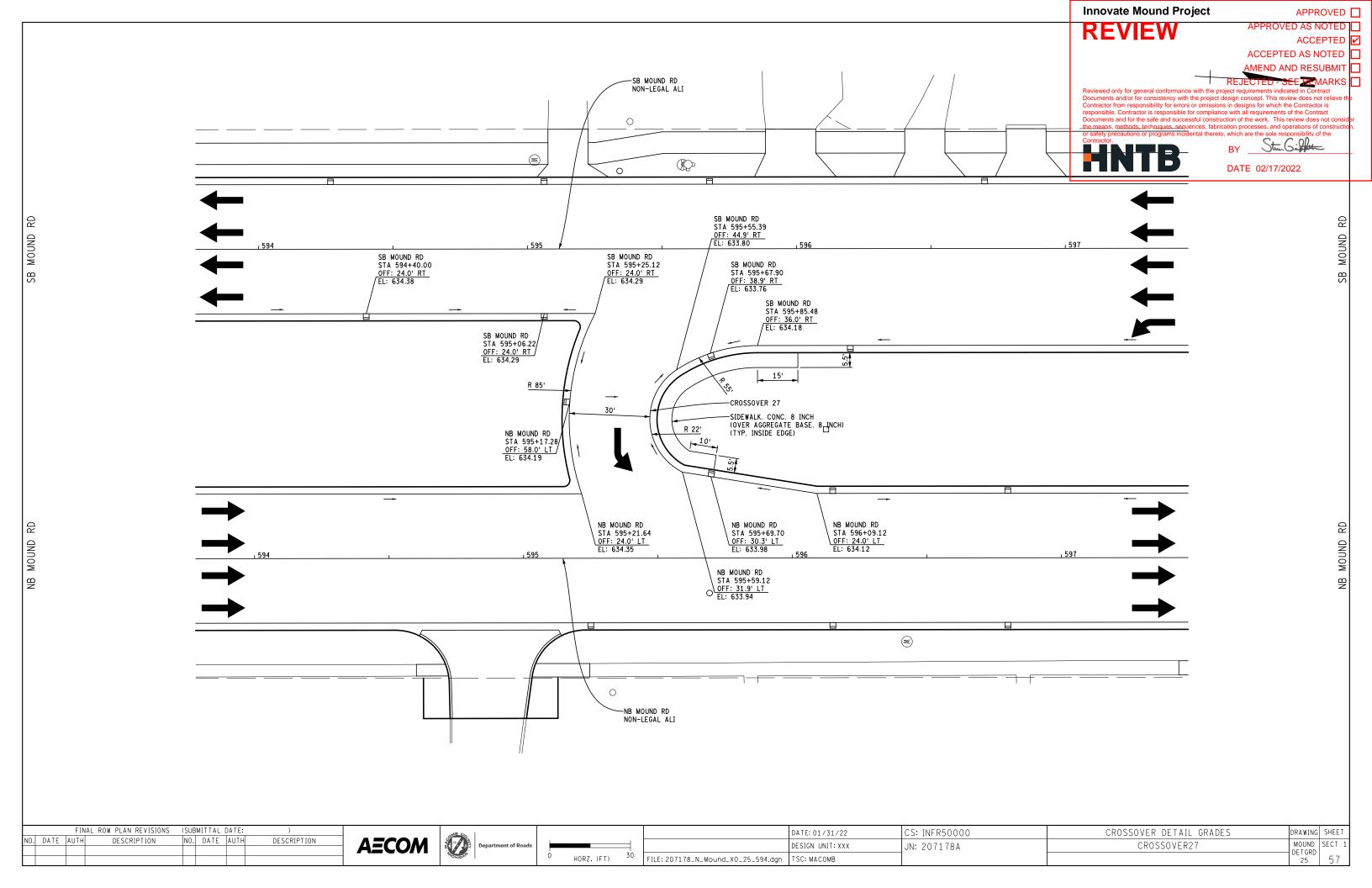


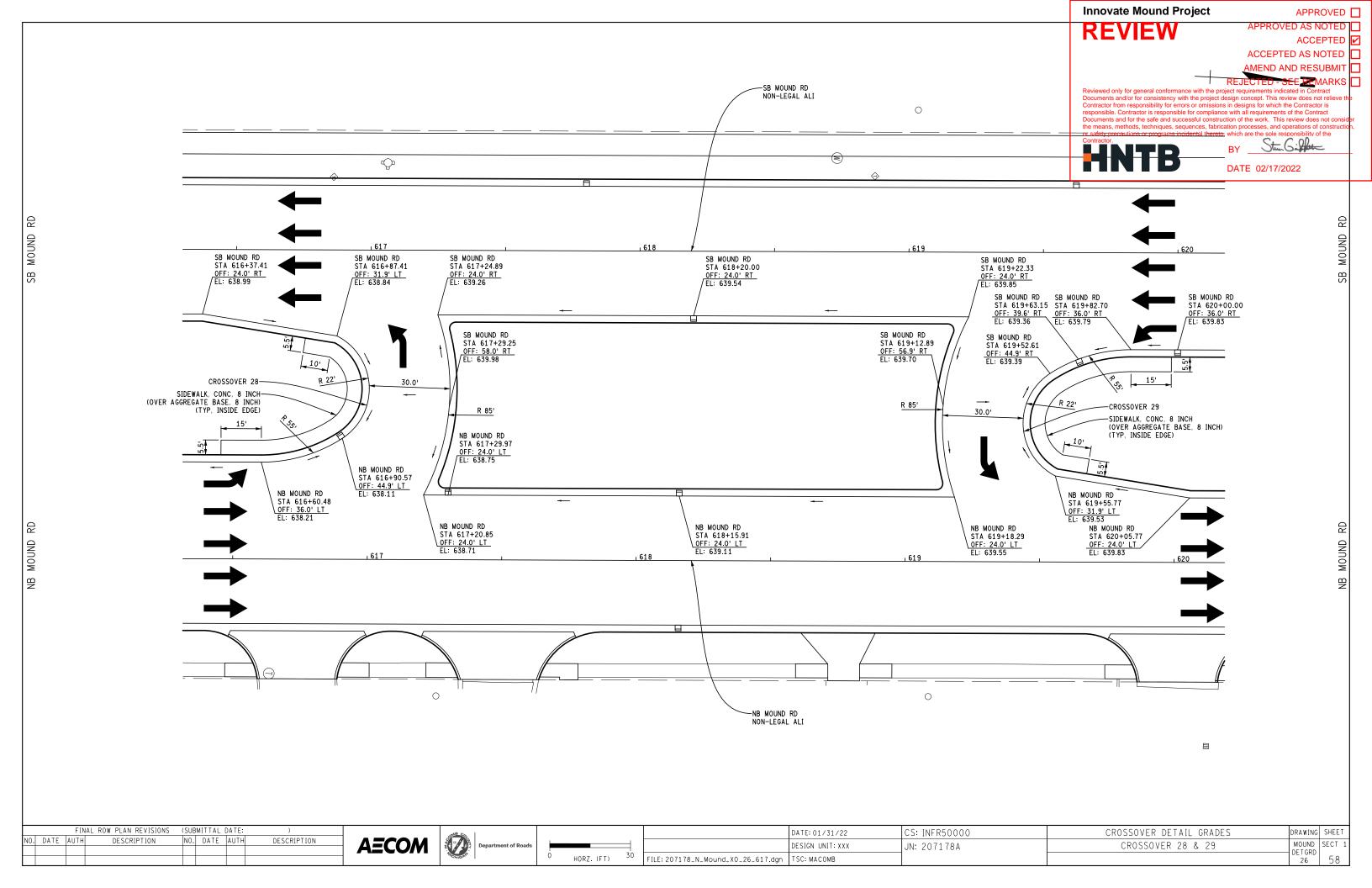


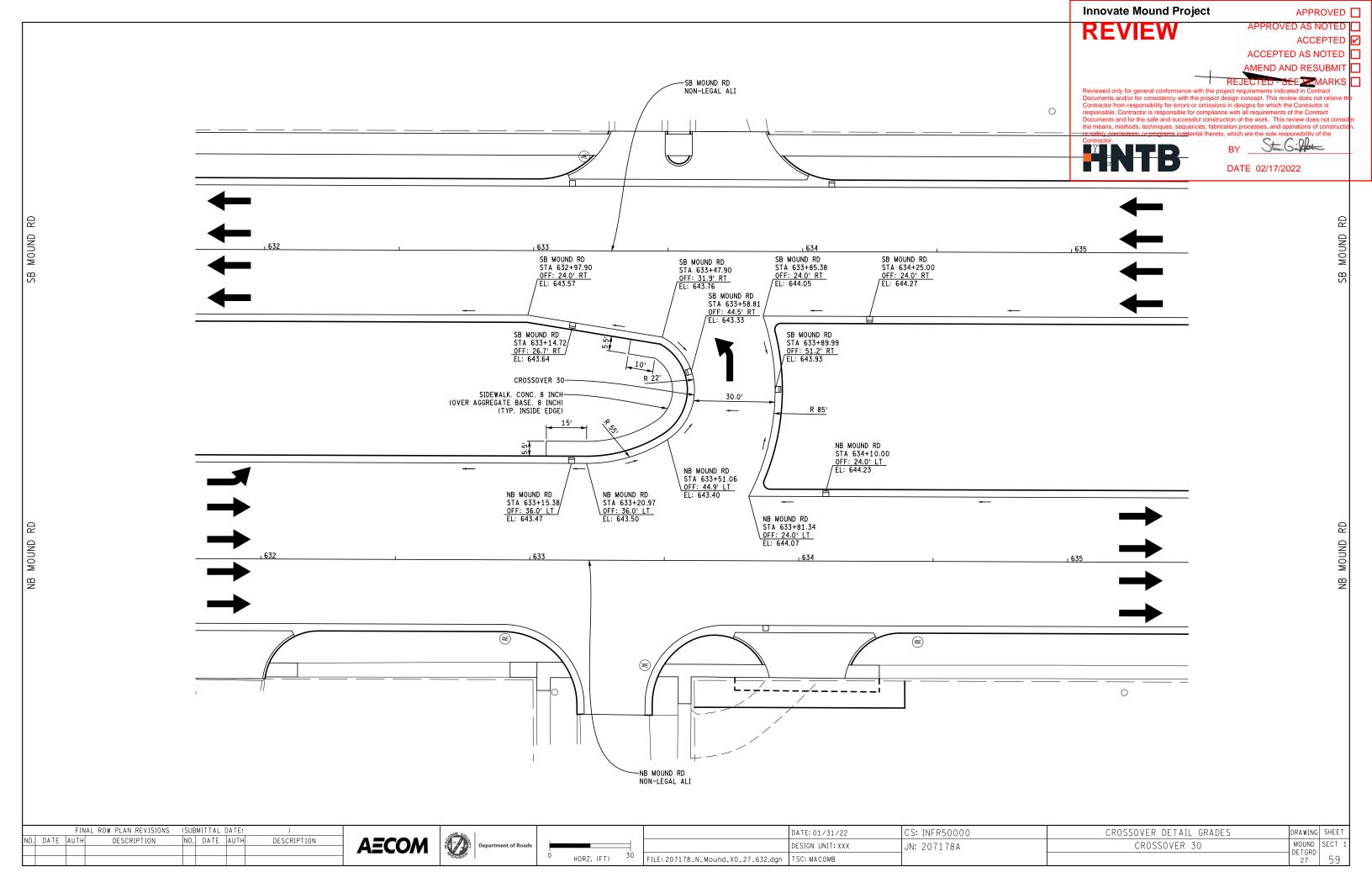


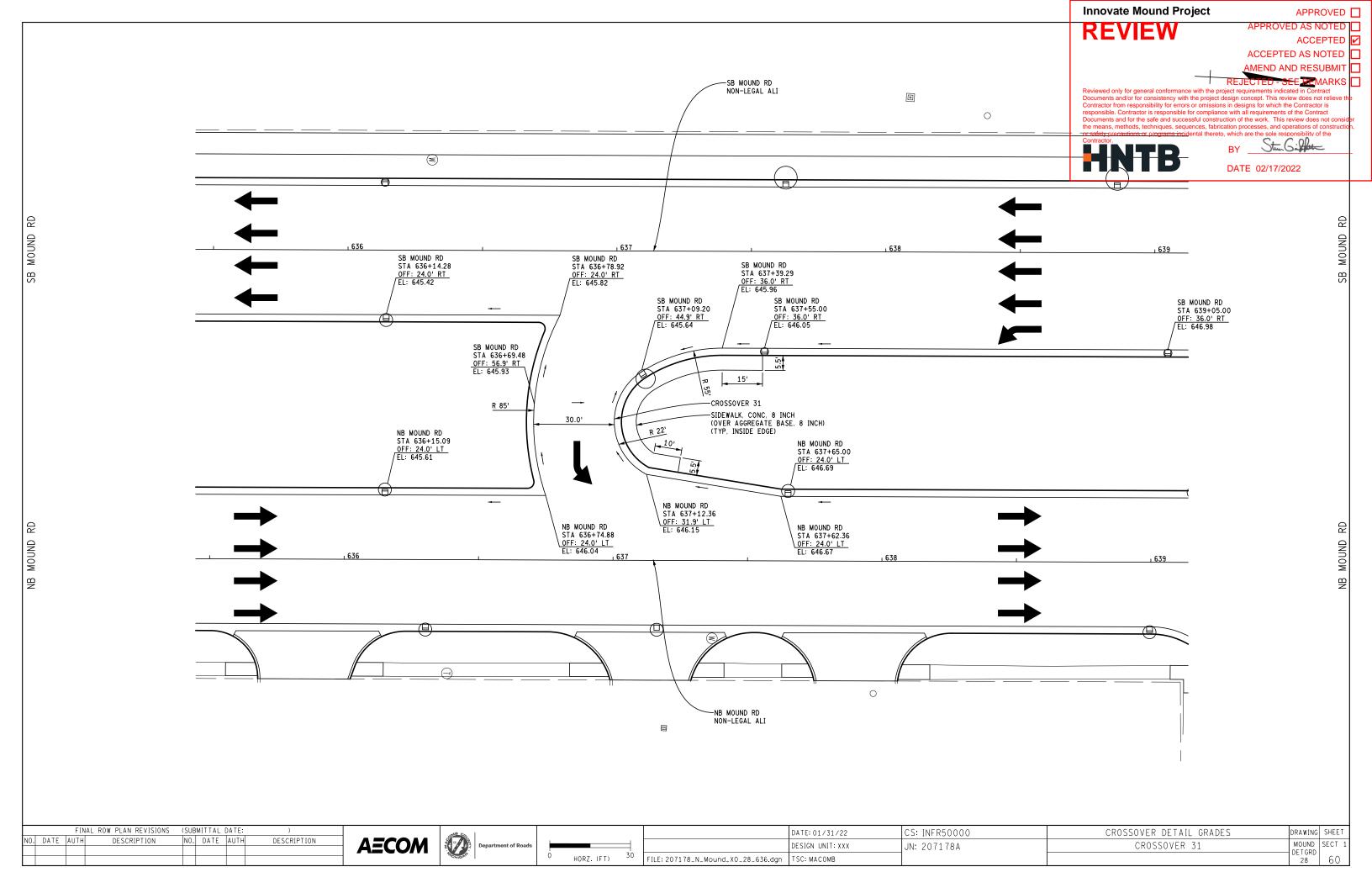


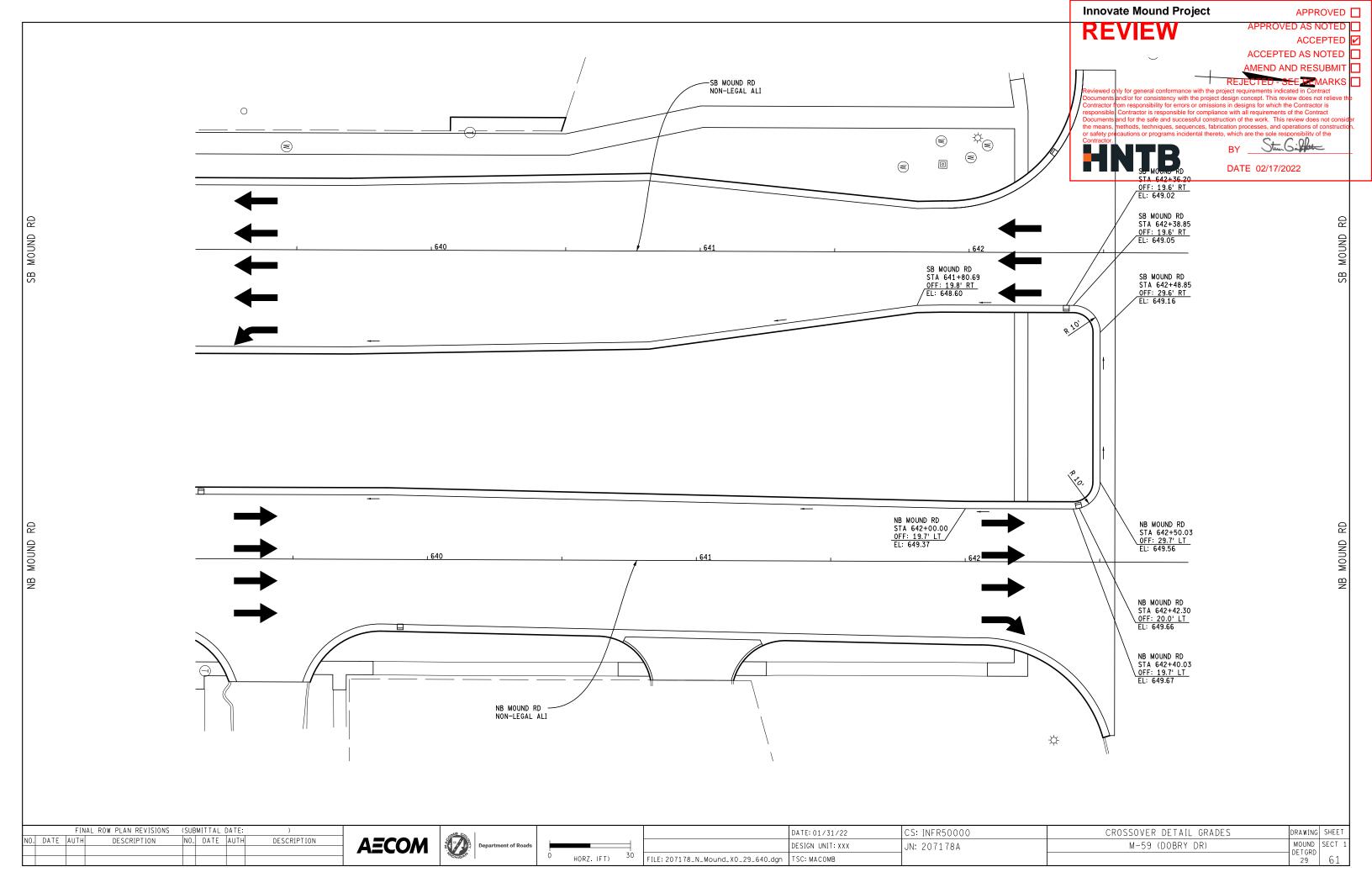


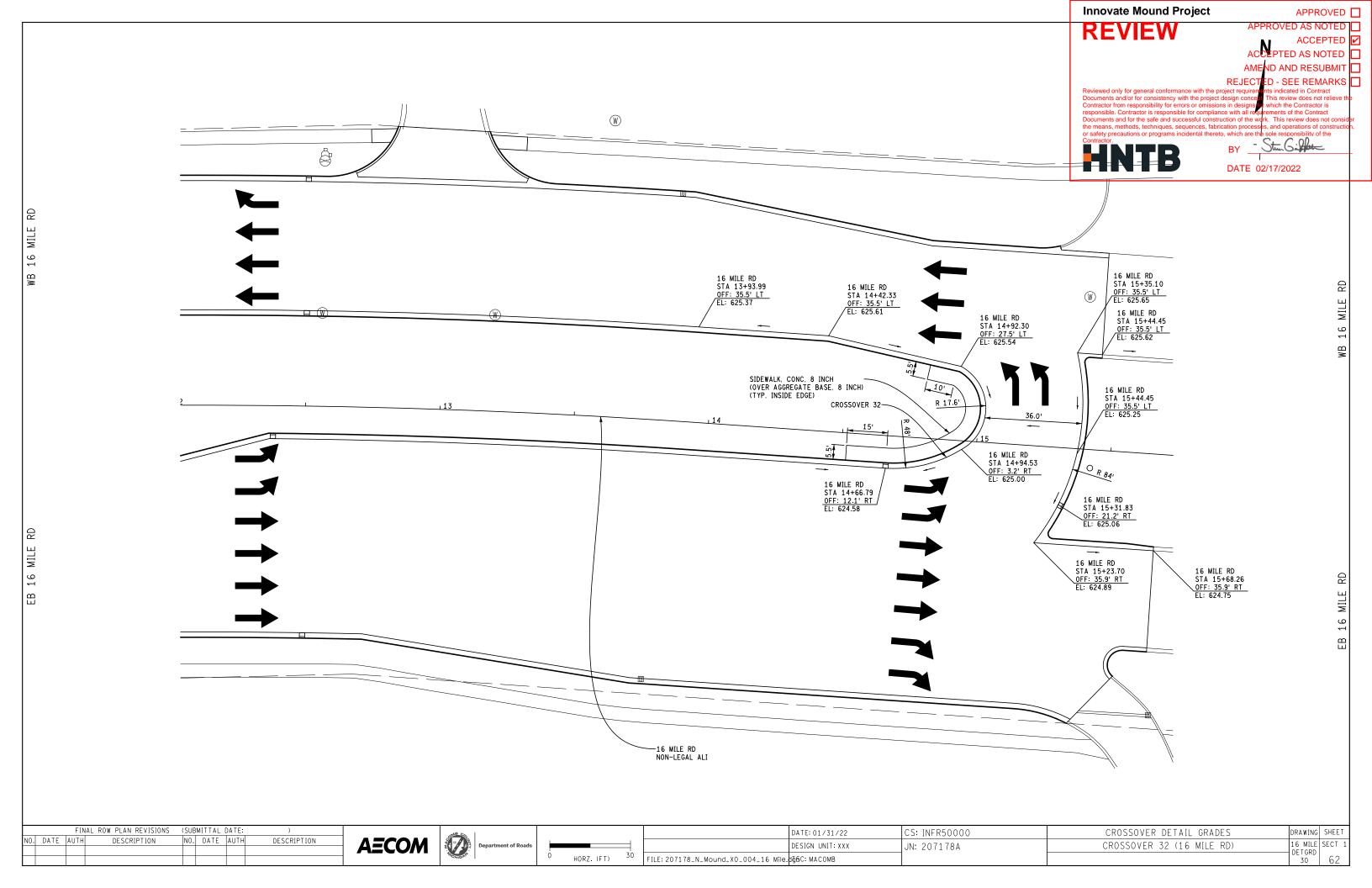


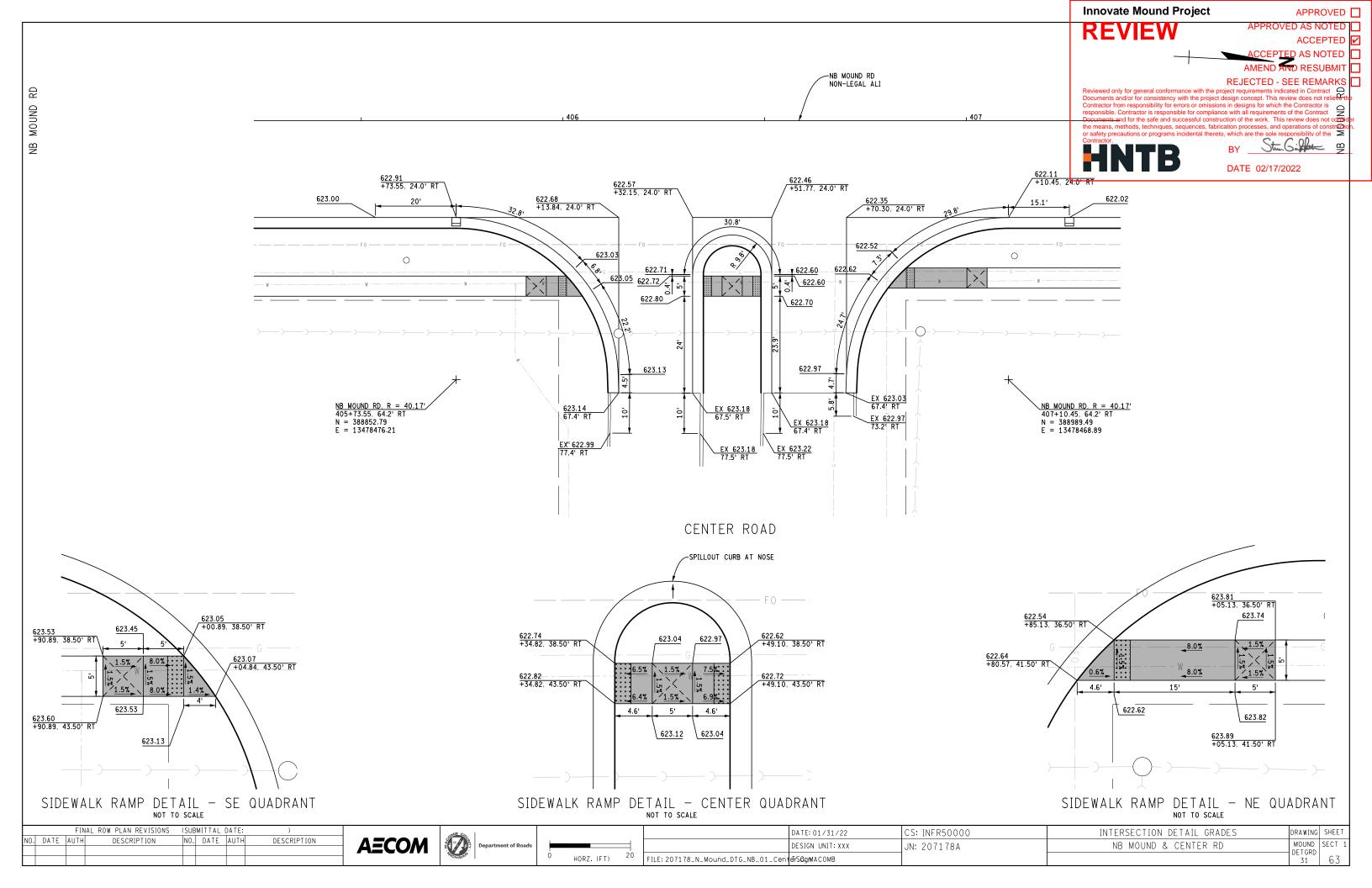


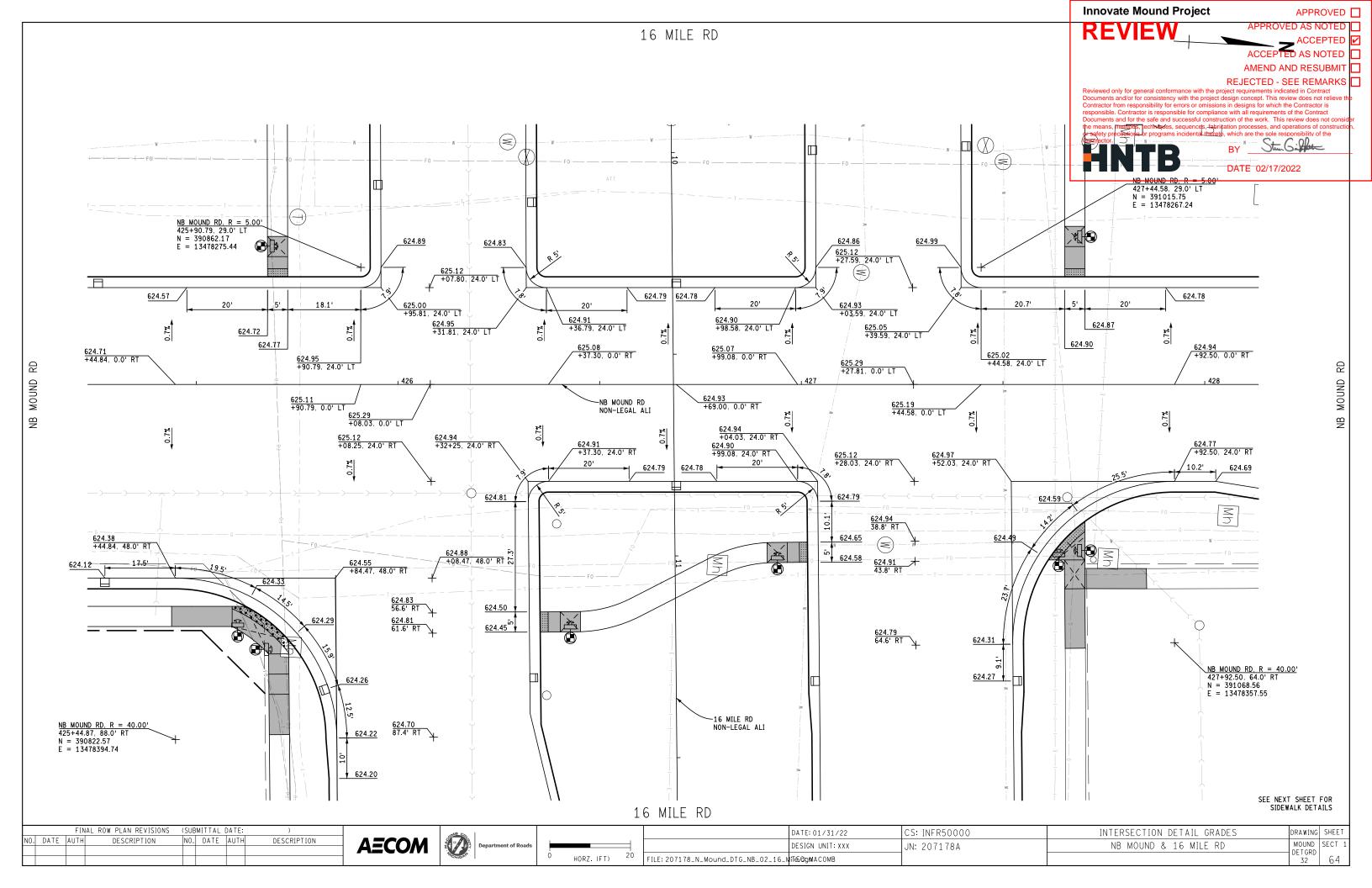


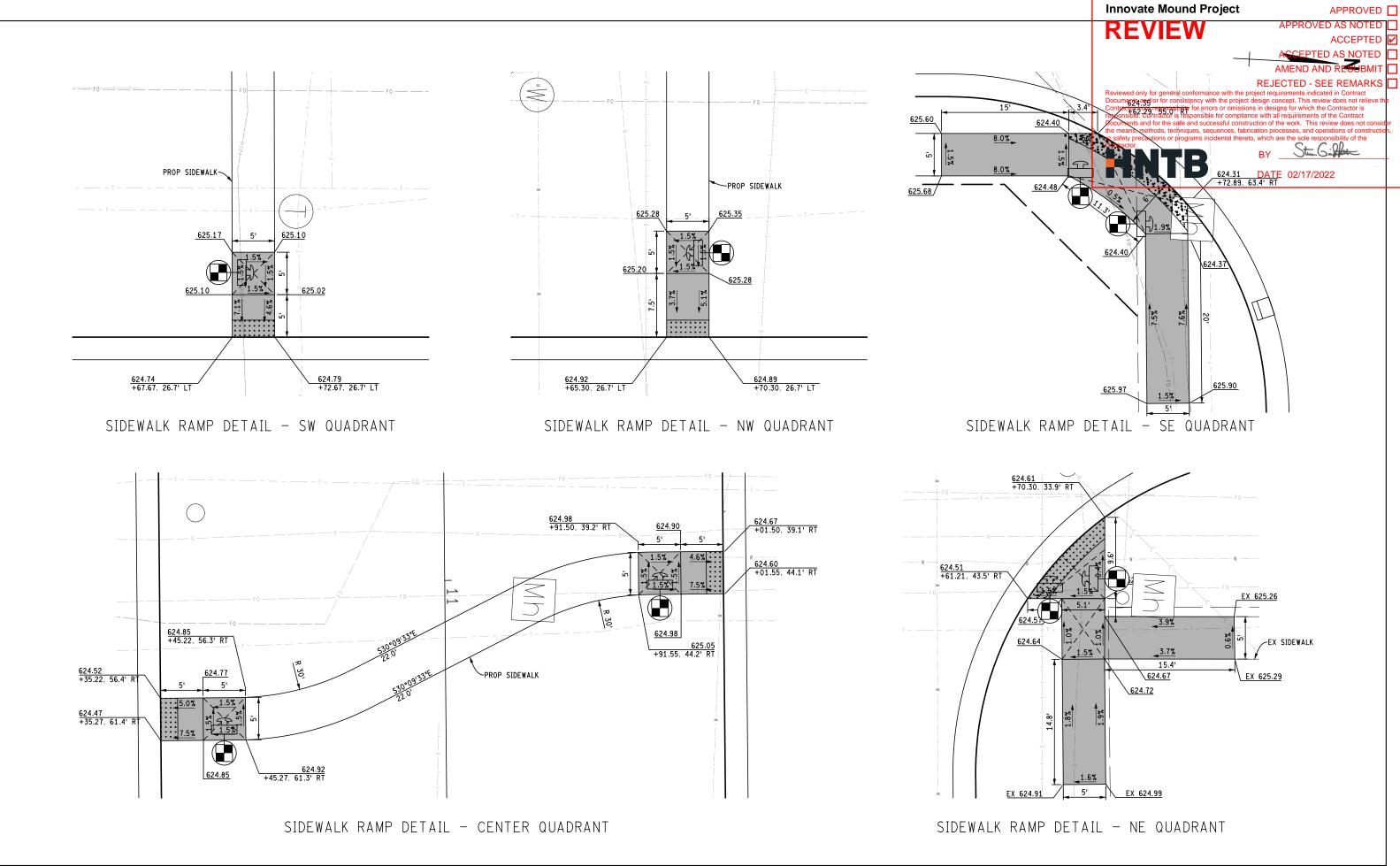


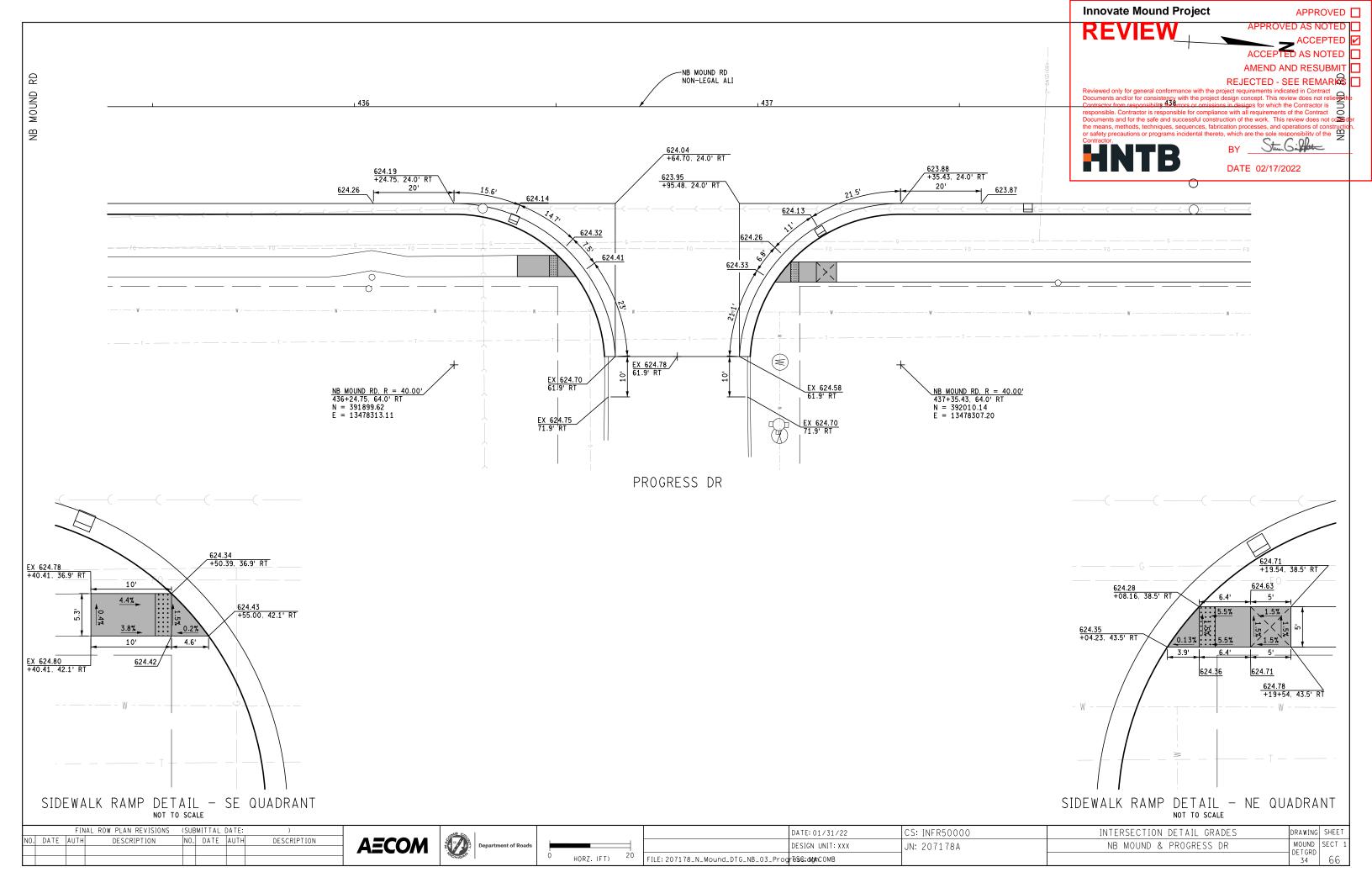


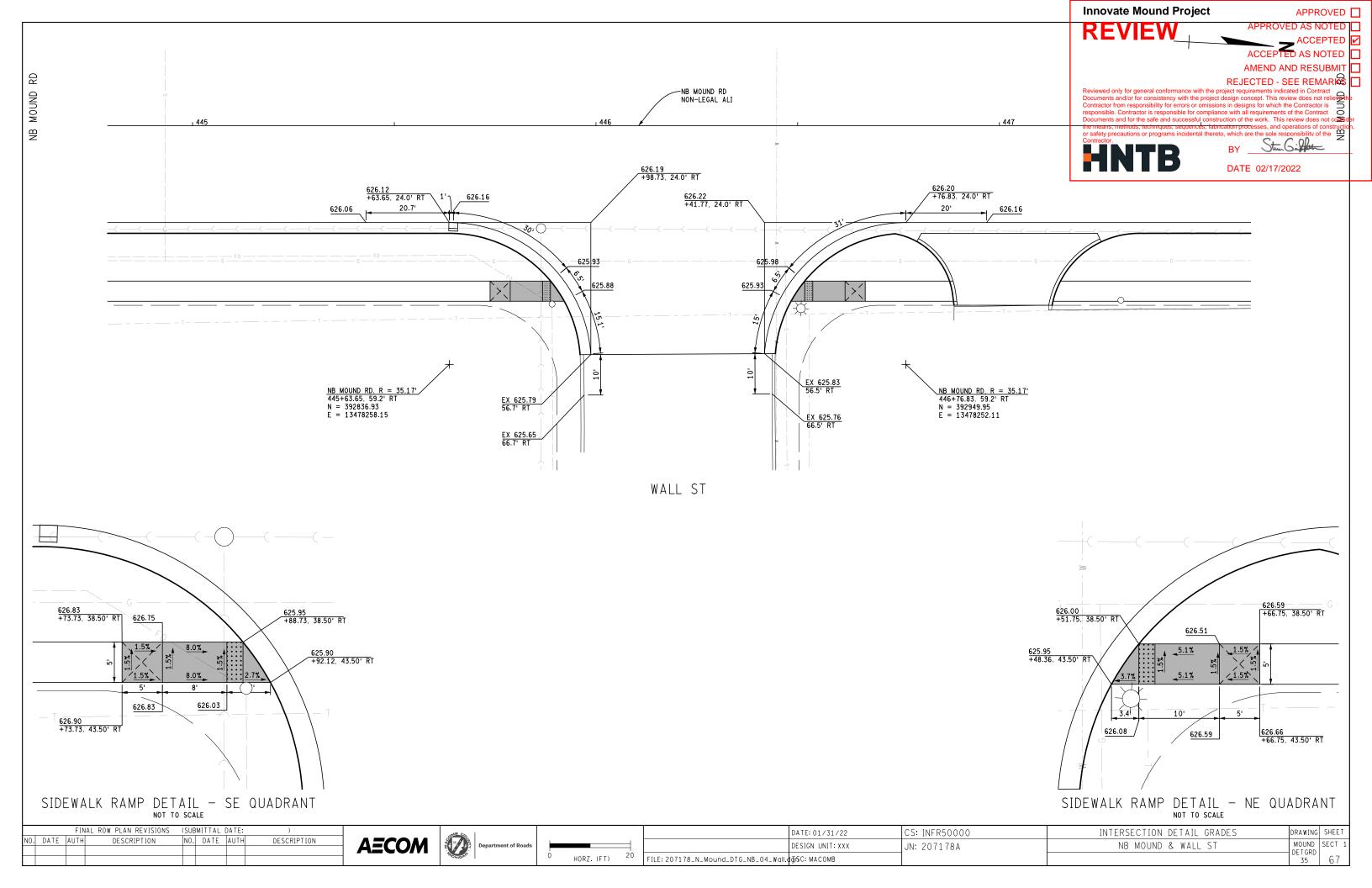


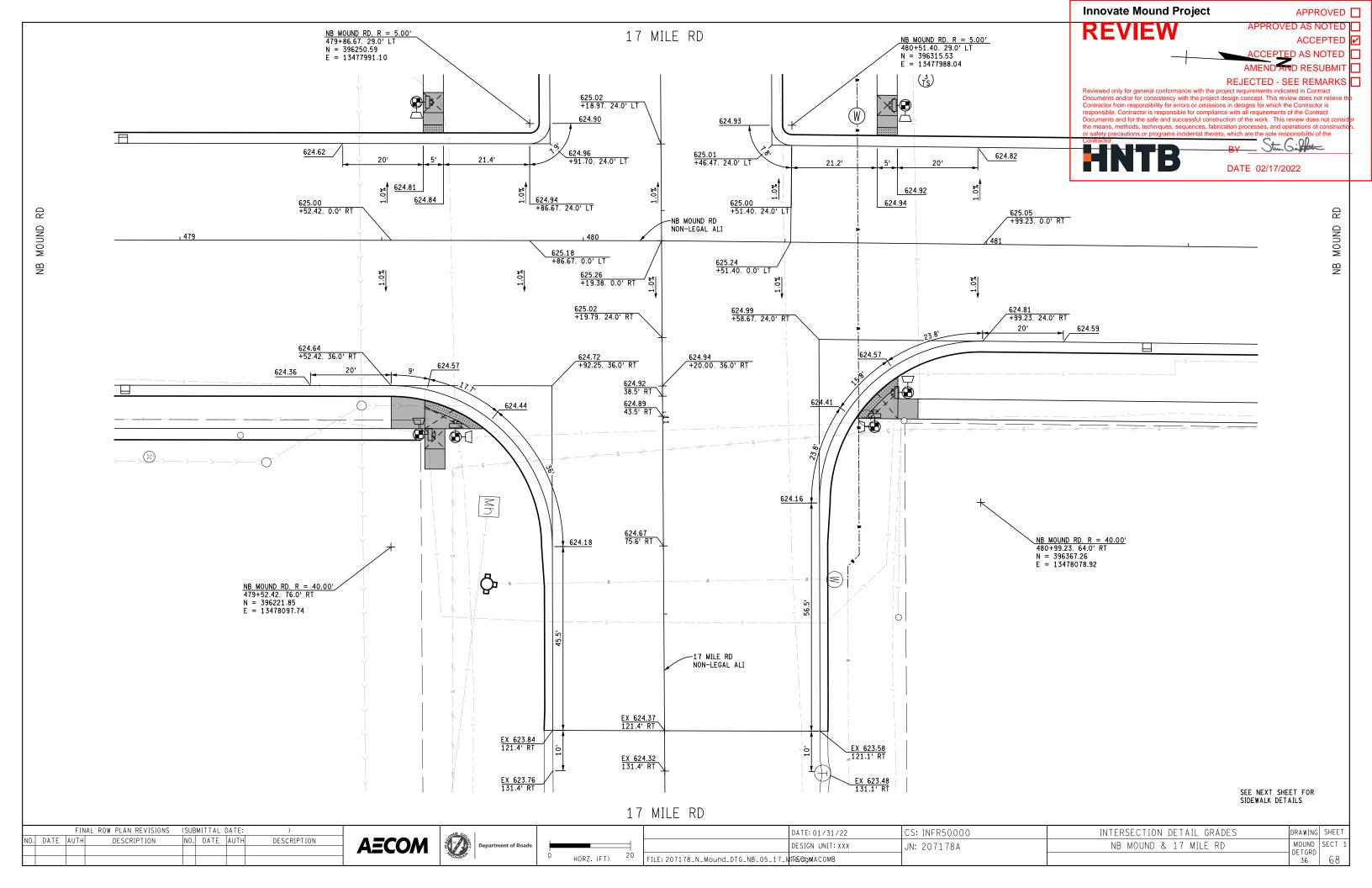


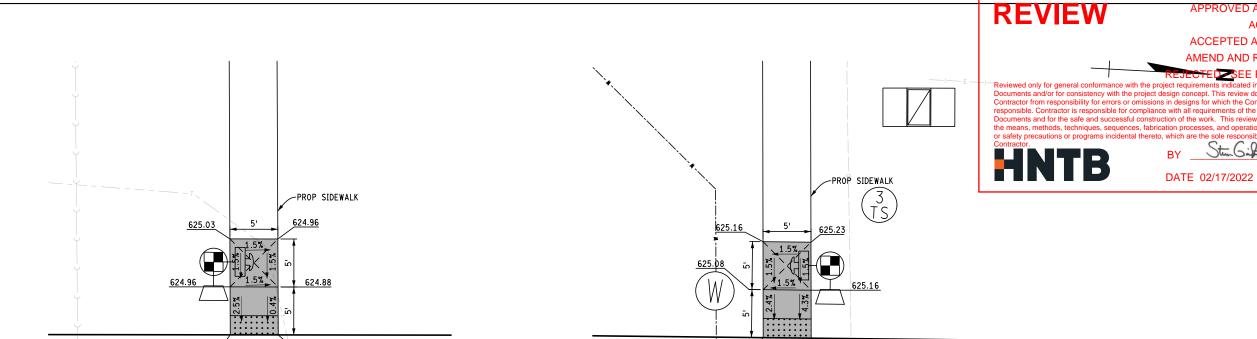












SIDEWALK RAMP DETAIL - SW QUADRANT

624.83 +60.31, 26.7' LT

624.86 +65.31, 26.7' LT

SIDEWALK RAMP DETAIL - NW QUADRANT

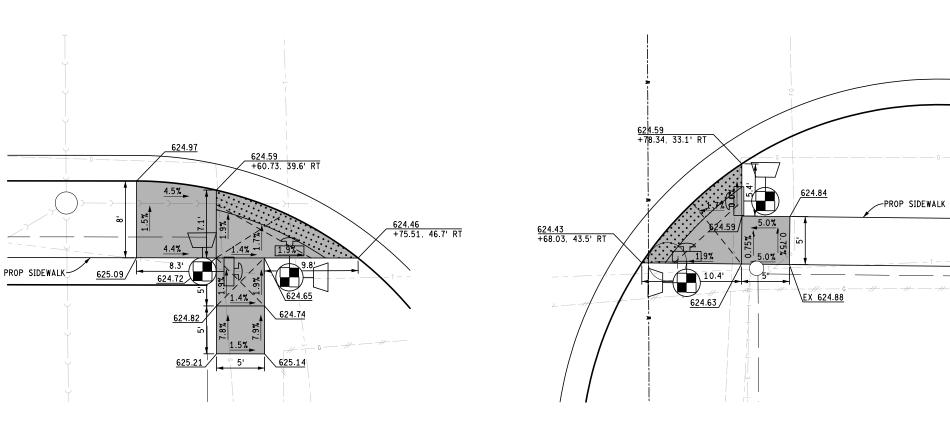
624.94 +77.55, 26.7' LT

624.96 +72.54, 26.7' LT

**Innovate Mound Project** 

APPROVED

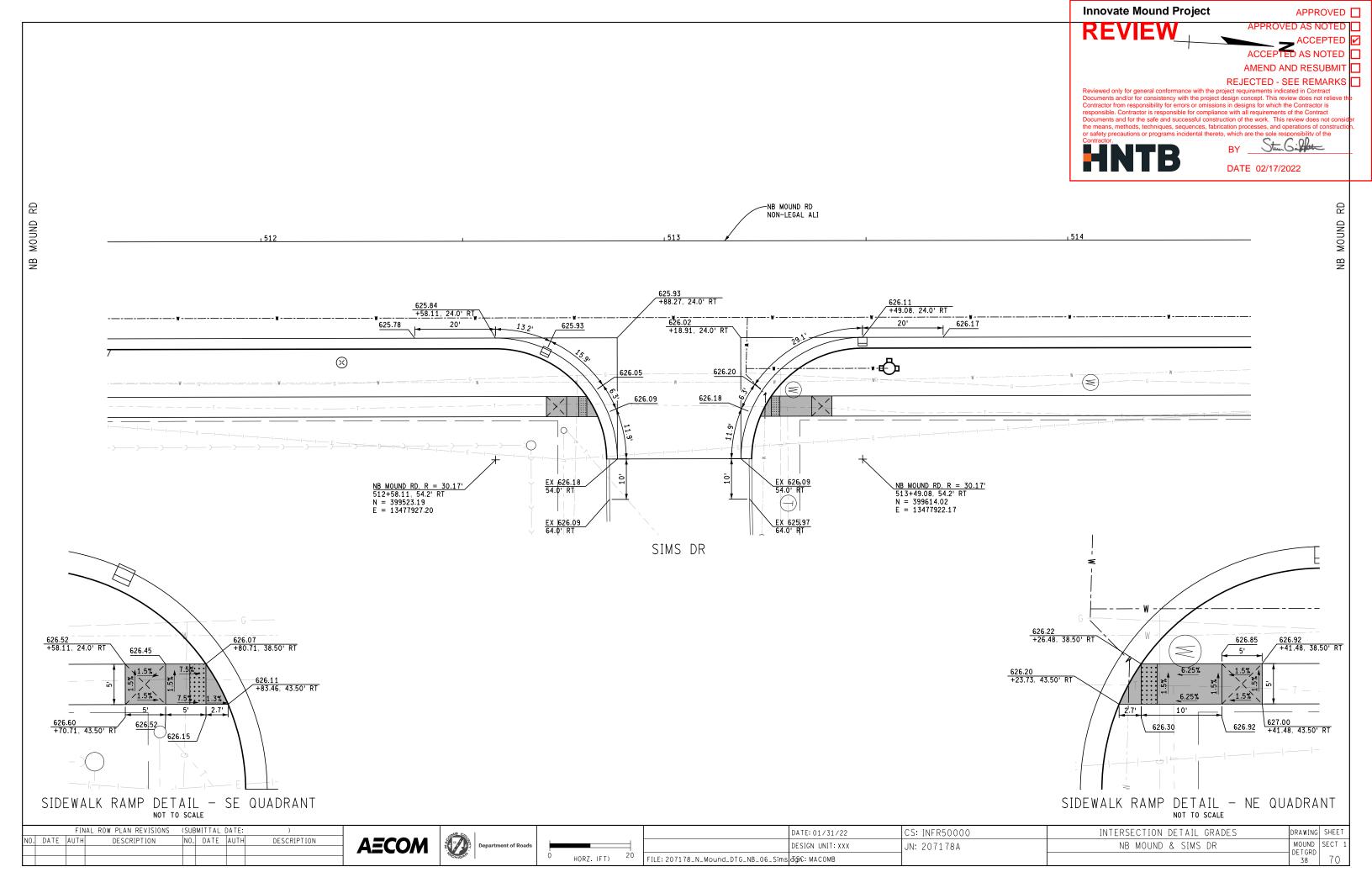
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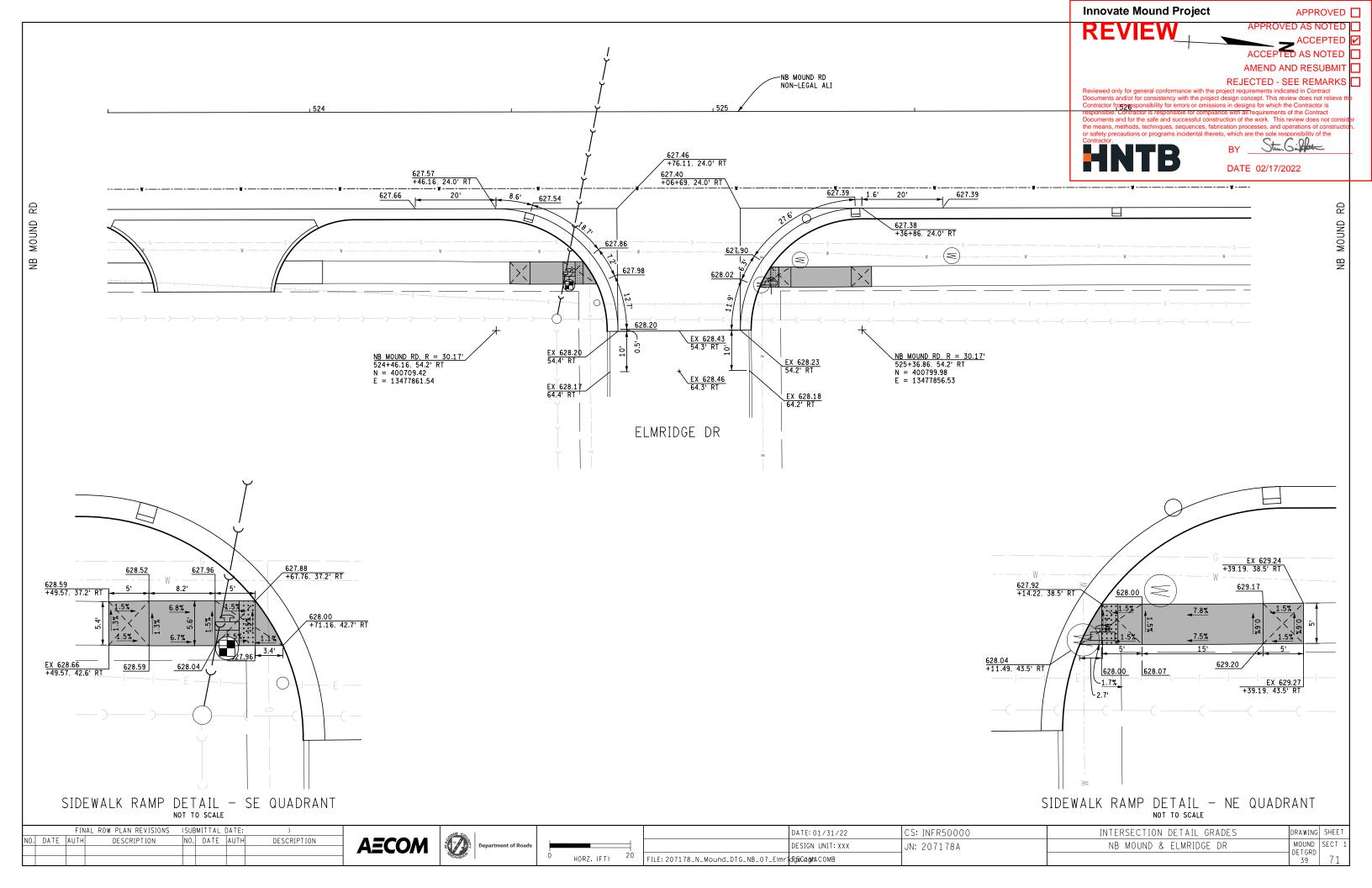


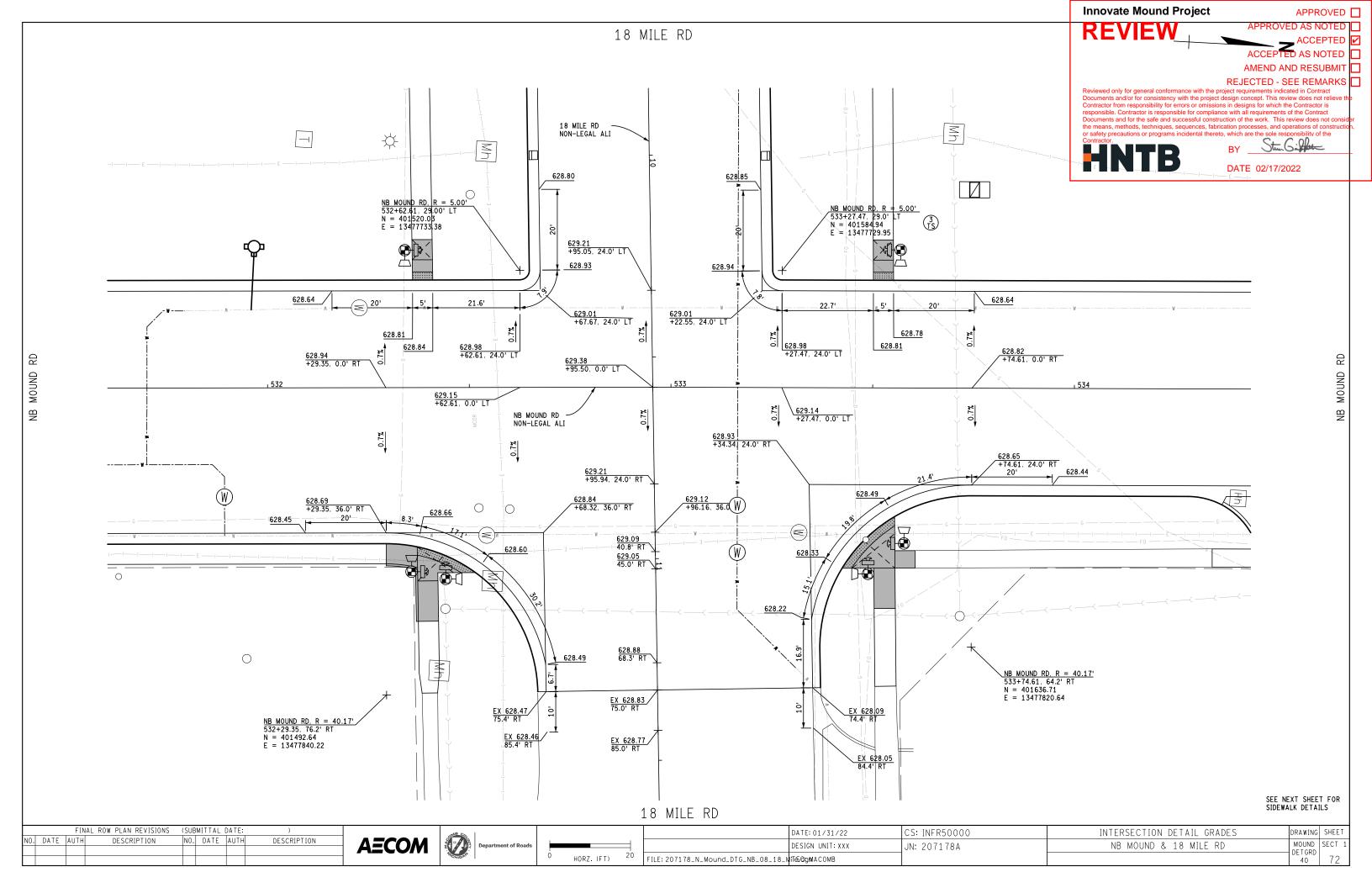
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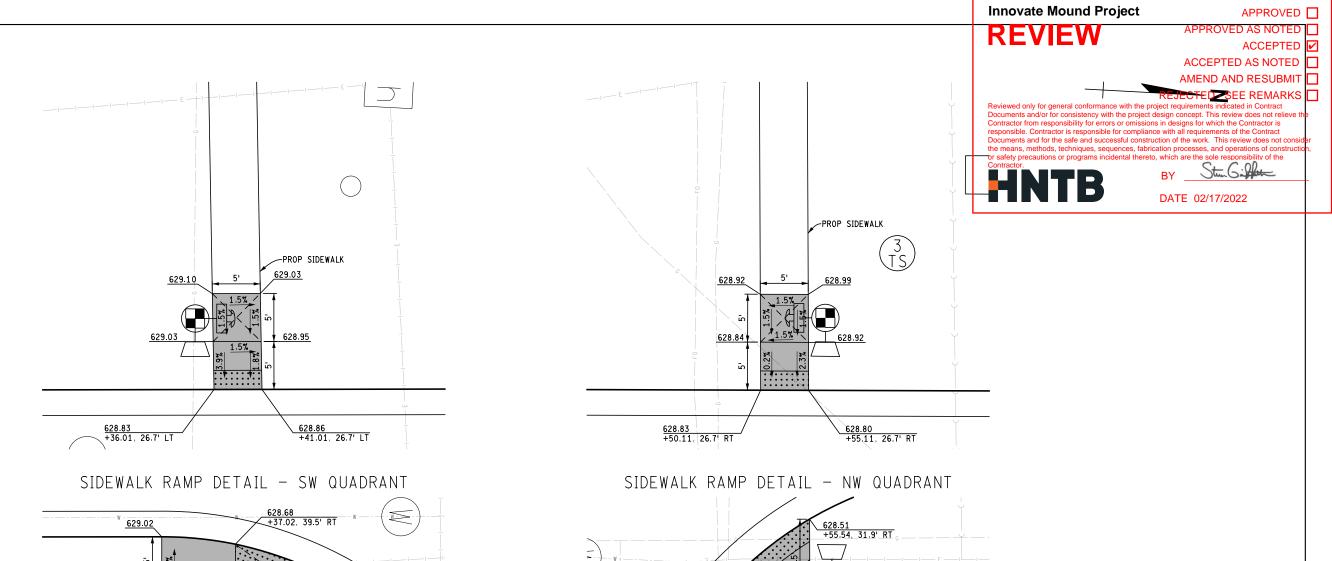
SIDEWALK RAMP DETAIL - NE QUADRANT

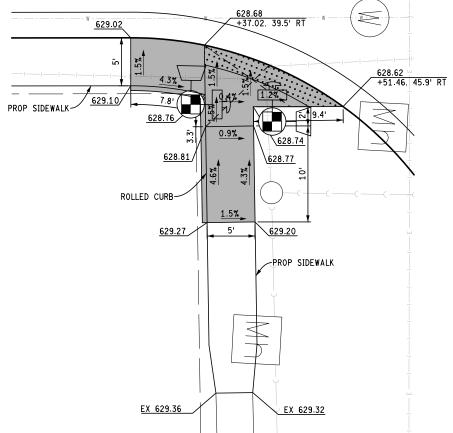
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NO. DATE	AUTH DESCRIPTION	NO. DATE AUTH	DESCRIPTION	AECOM	Department of Roads		DESIGN UNIT: XXX	JN: 207178A	NB MOUND & 17 MILE RD	MOUND SECT 1
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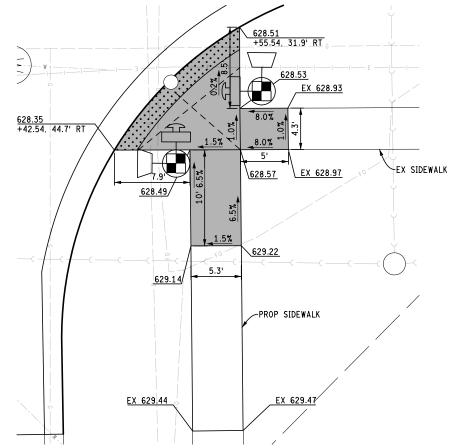






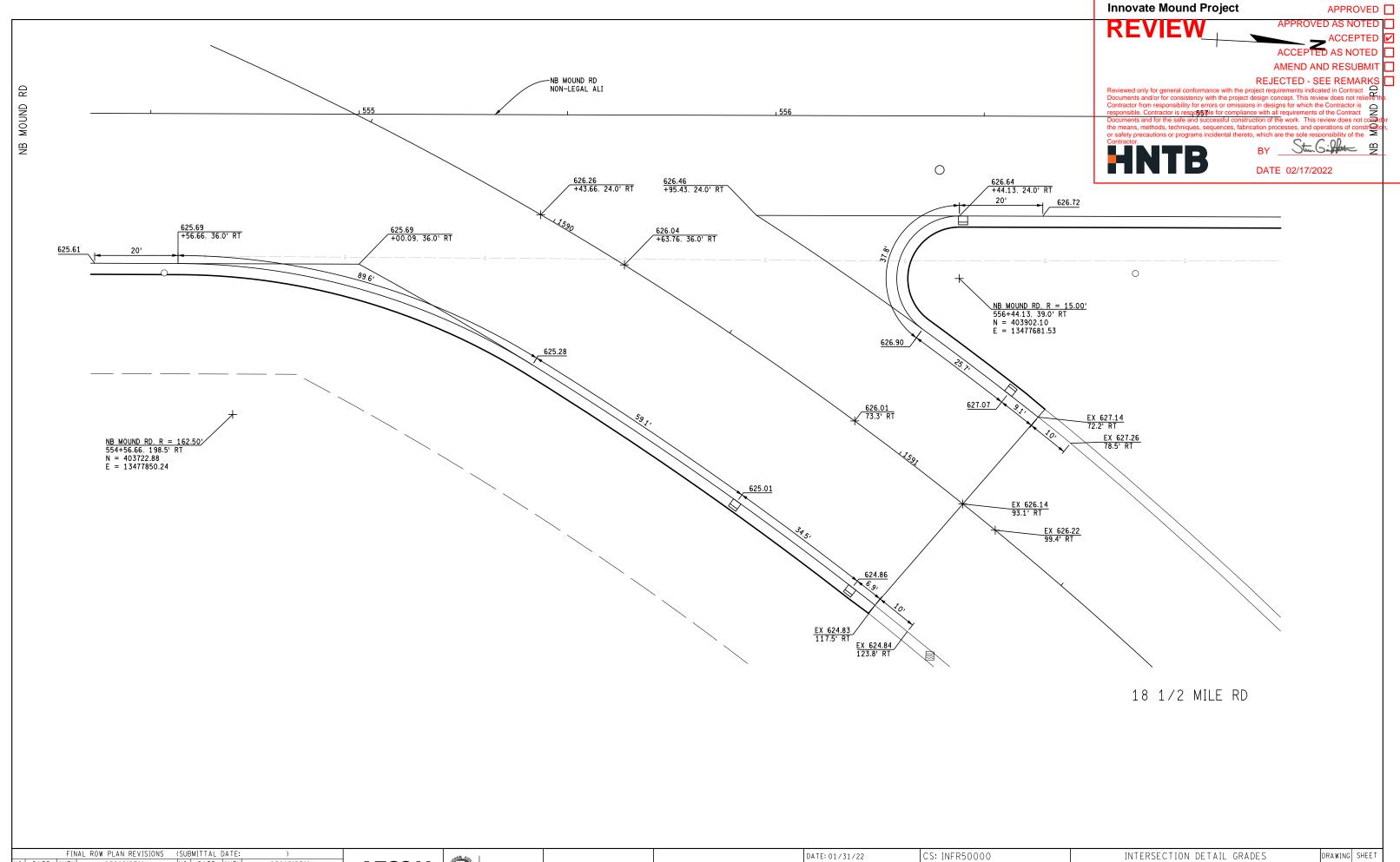






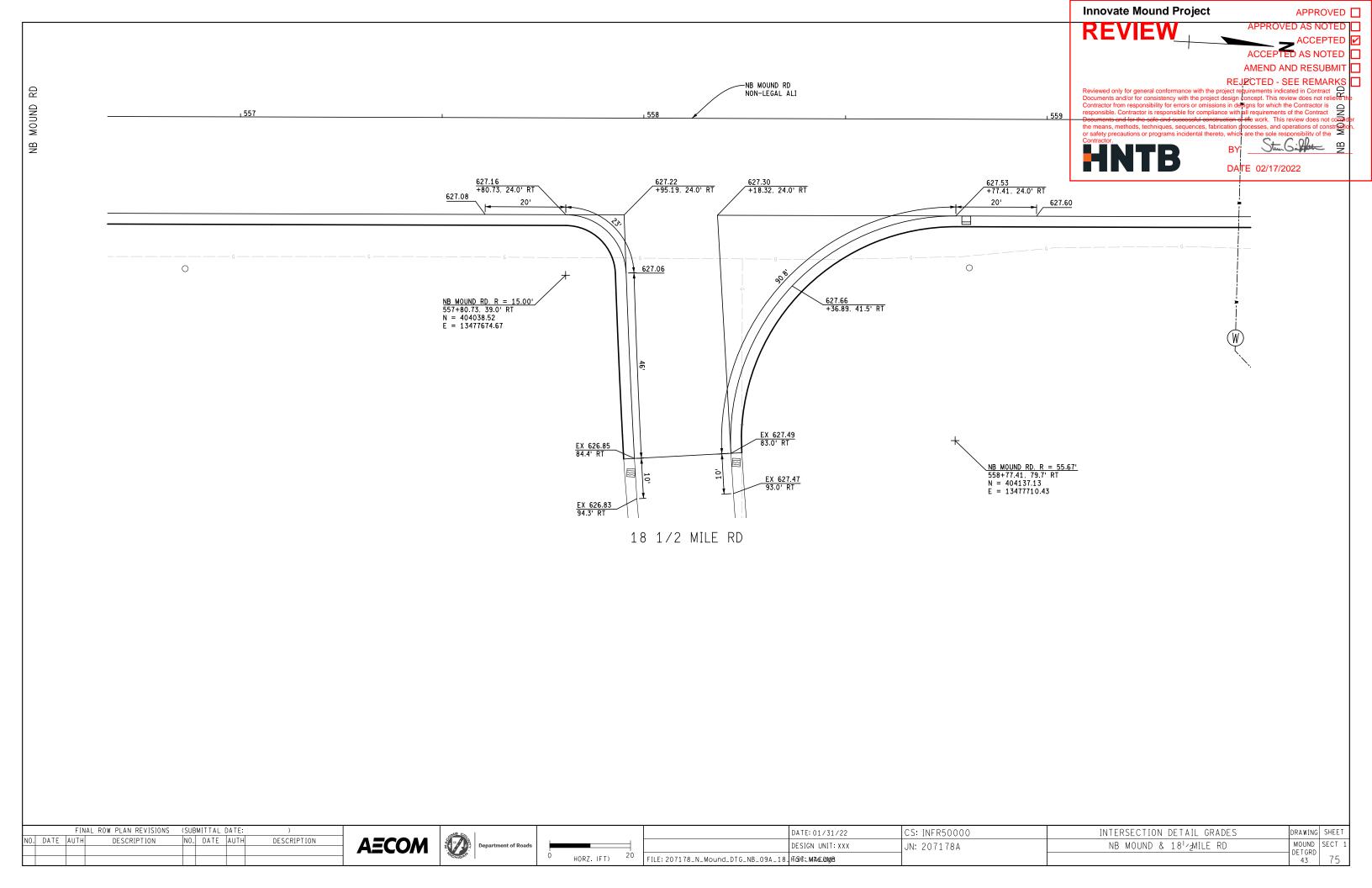
SIDEWALK RAMP DETAIL - NE QUADRANT

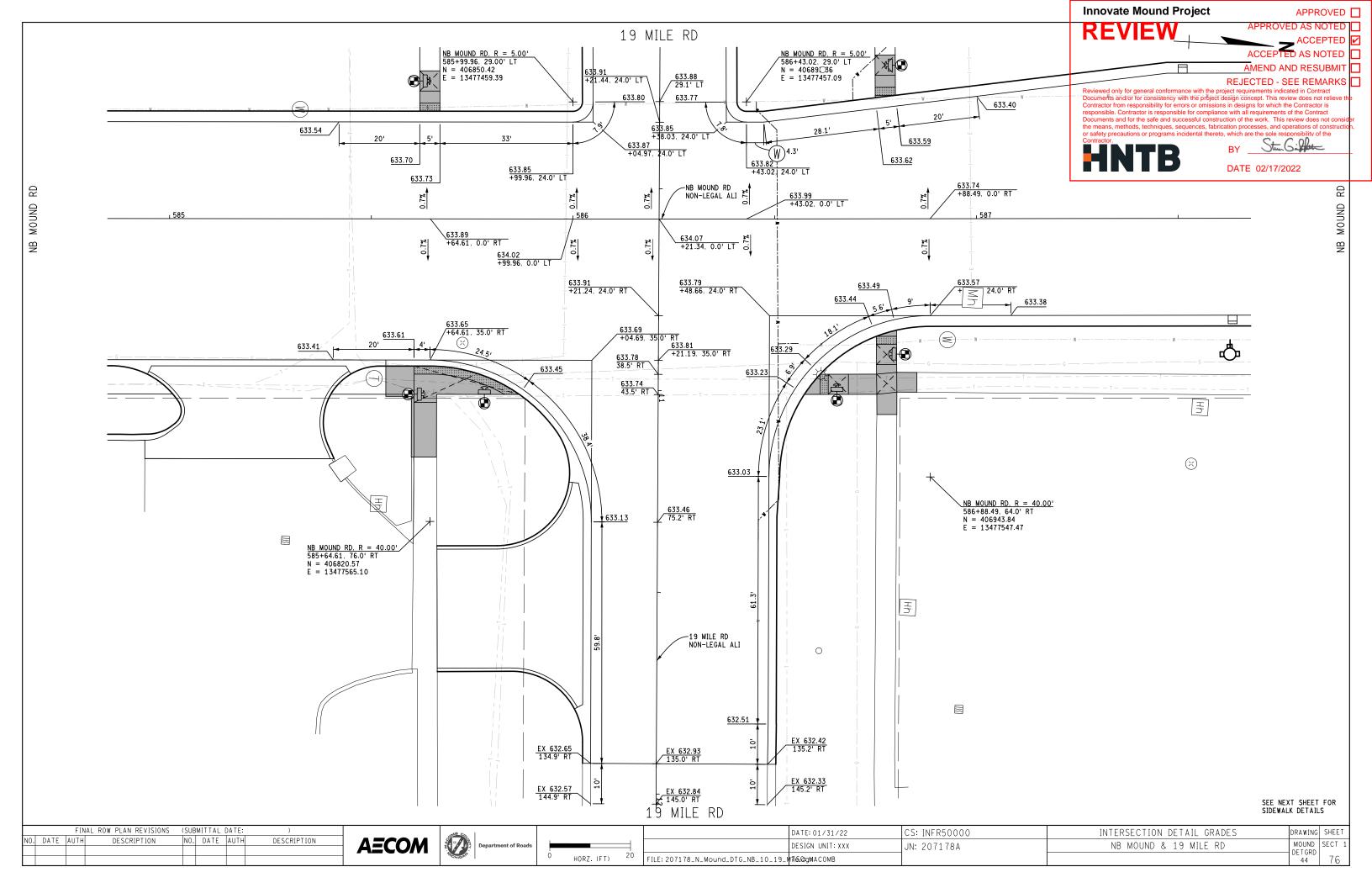
	FINAL ROW PLAN REVIS				OMB CO.			DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING	SHEET
NO. DATE	AUTH DESCRIPTION	NO. DATE AUTH	DESCRIPTION	<b>AECOM</b>	Department of Roads			DESIGN UNIT: XXX	JN: 207178A	NB MOUND & 18 MILE RD	MOUND	SECT 1
				<b>∤</b>	MICHIGAN	0 HORZ. (FT) 10	FILE: 207178_N_Mound_DTG_NB_08A_18.	NI SECUMA COMB			DETGRD 41	73

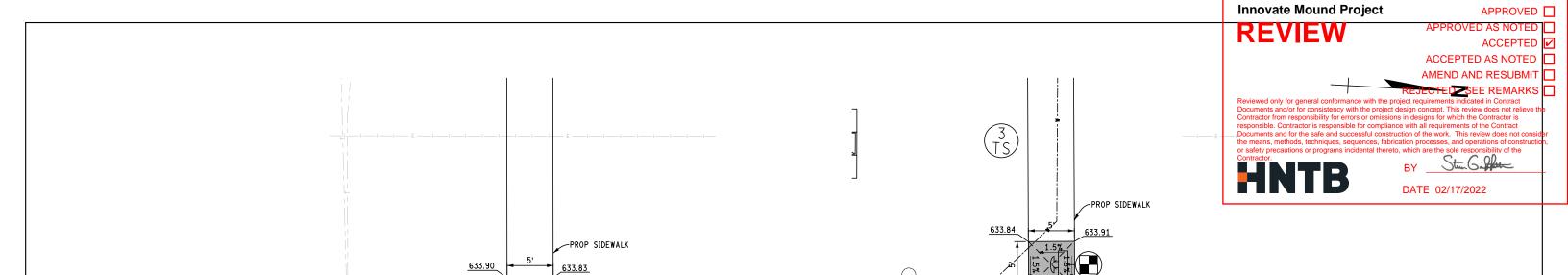


FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: )

D. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION







SIDEWALK RAMP DETAIL - SW QUADRANT

633.72 +61.99, 26.7' LT

633.75 +66.99, 26.7' LT

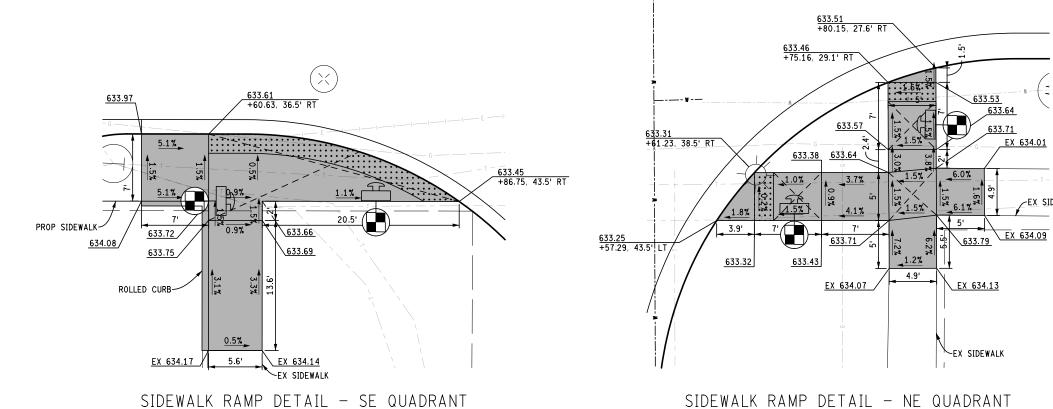
SIDEWALK RAMP DETAIL - NW QUADRANT

633.64 +74.95, 30.0' LT

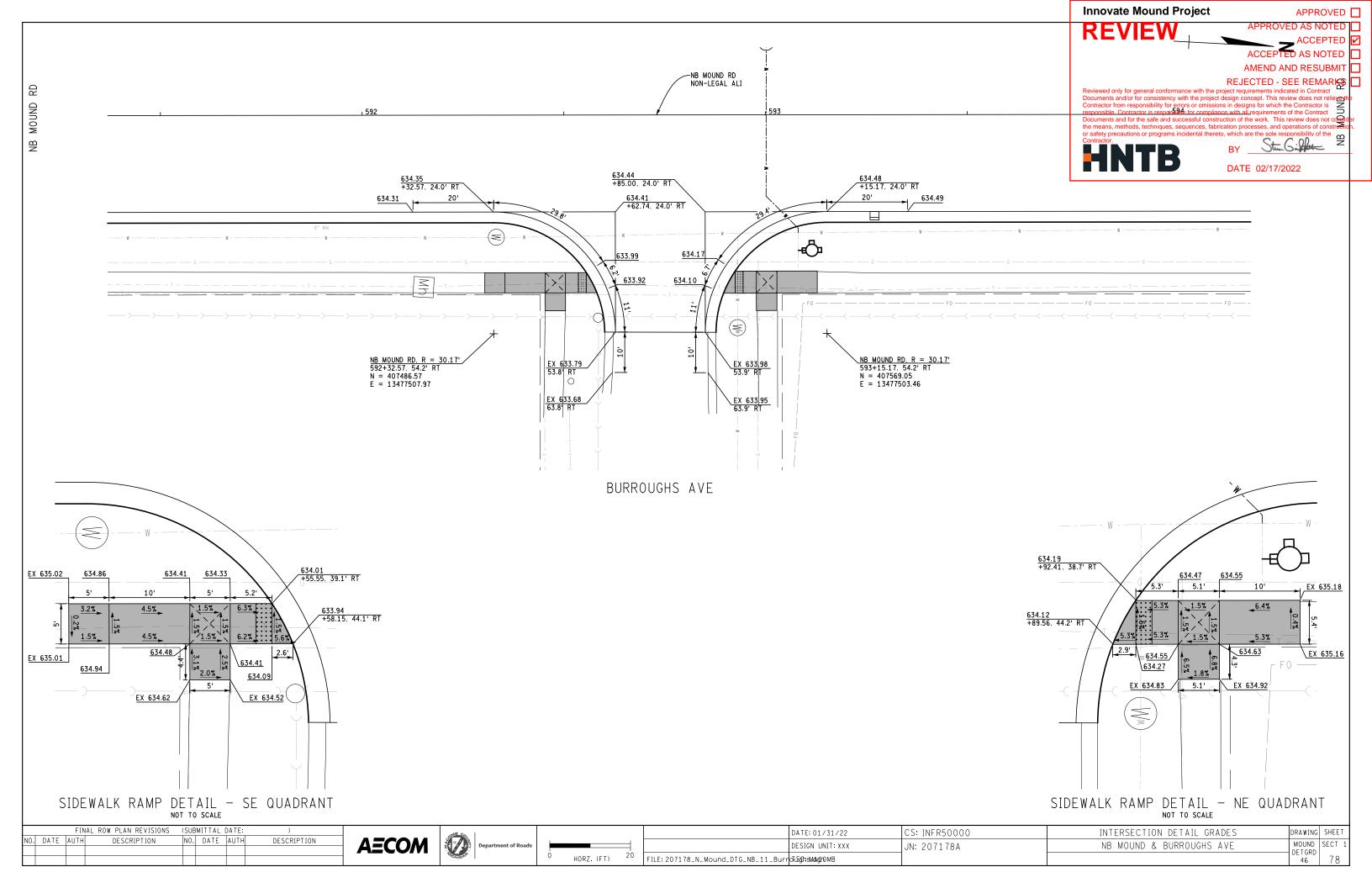
633.61 +79.95, 30.6' LT

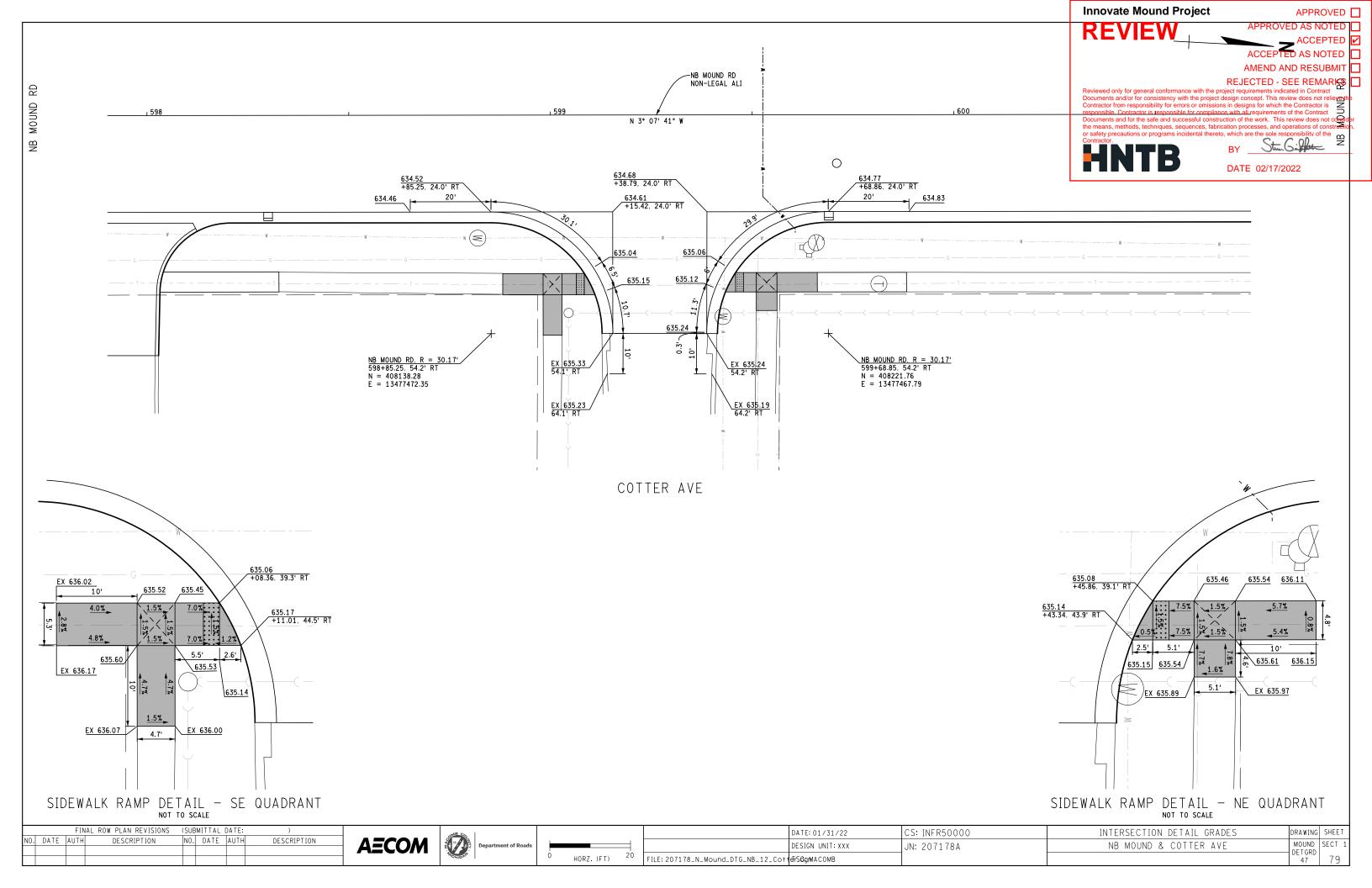
EX 634.01

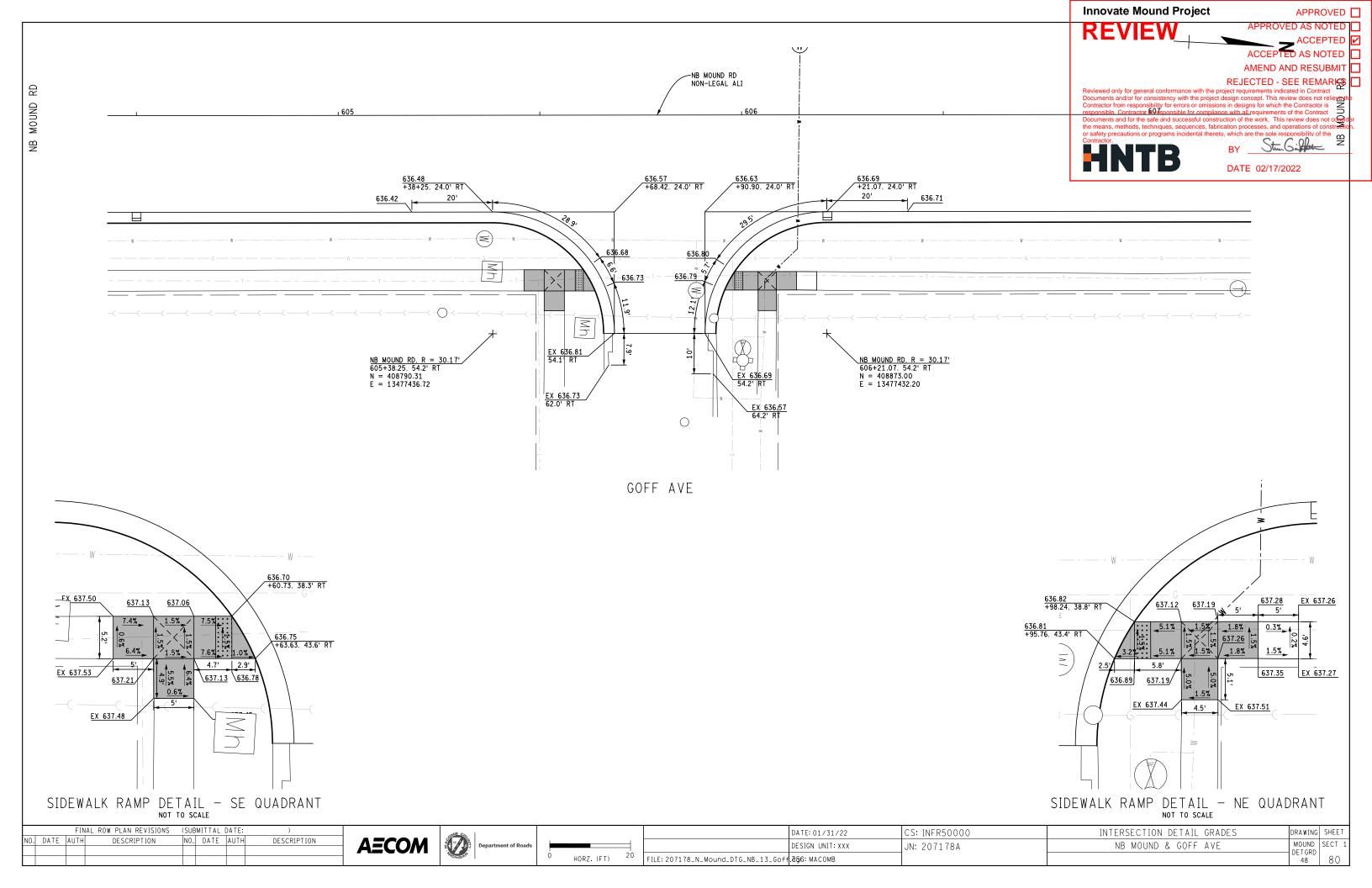
EX SIDEWALK

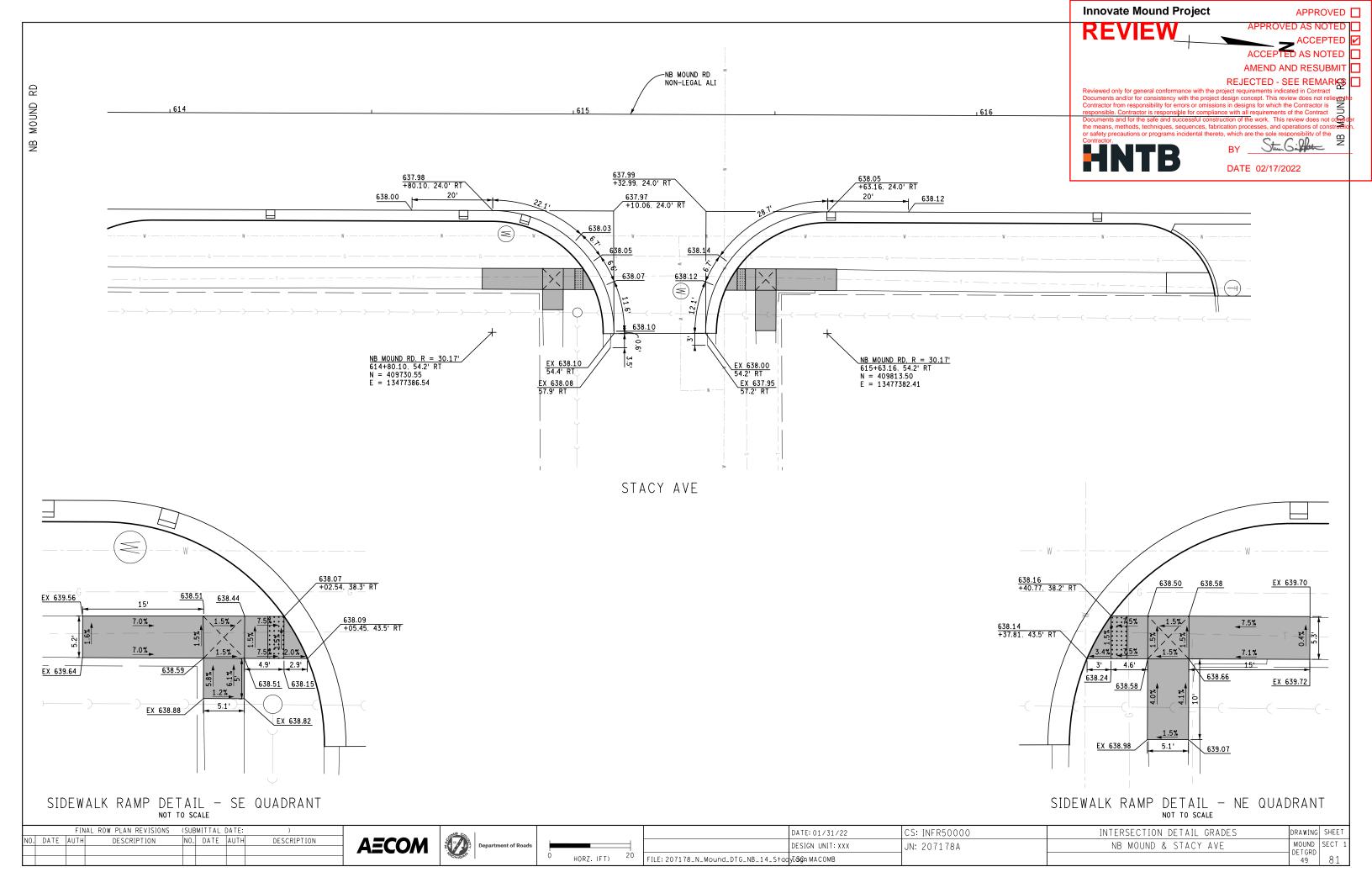


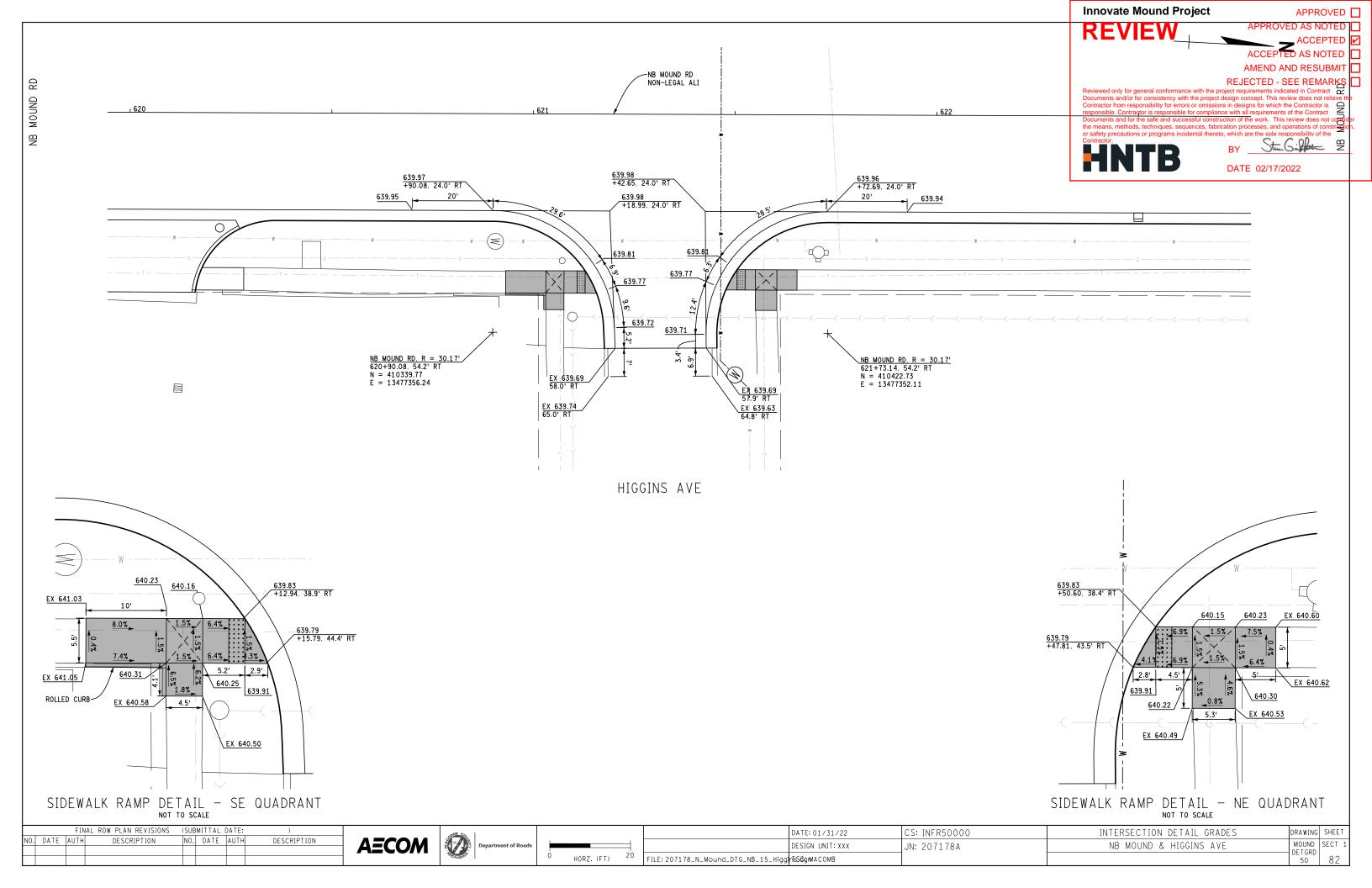
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: DATE: 01/31/22 CS: INFR50000 INTERSECTION DETAIL GRADES DRAWING SHEET DESCRIPTION **AECOM** MOUND SECT 1 DESIGN UNIT: XXX NB MOUND &19 MILE RD JN: 207178A DETGRD 77 HORZ. (FT) FILE: 207178\_N\_Mound\_DTG\_NB\_10A\_19\_MSE:digACOMB

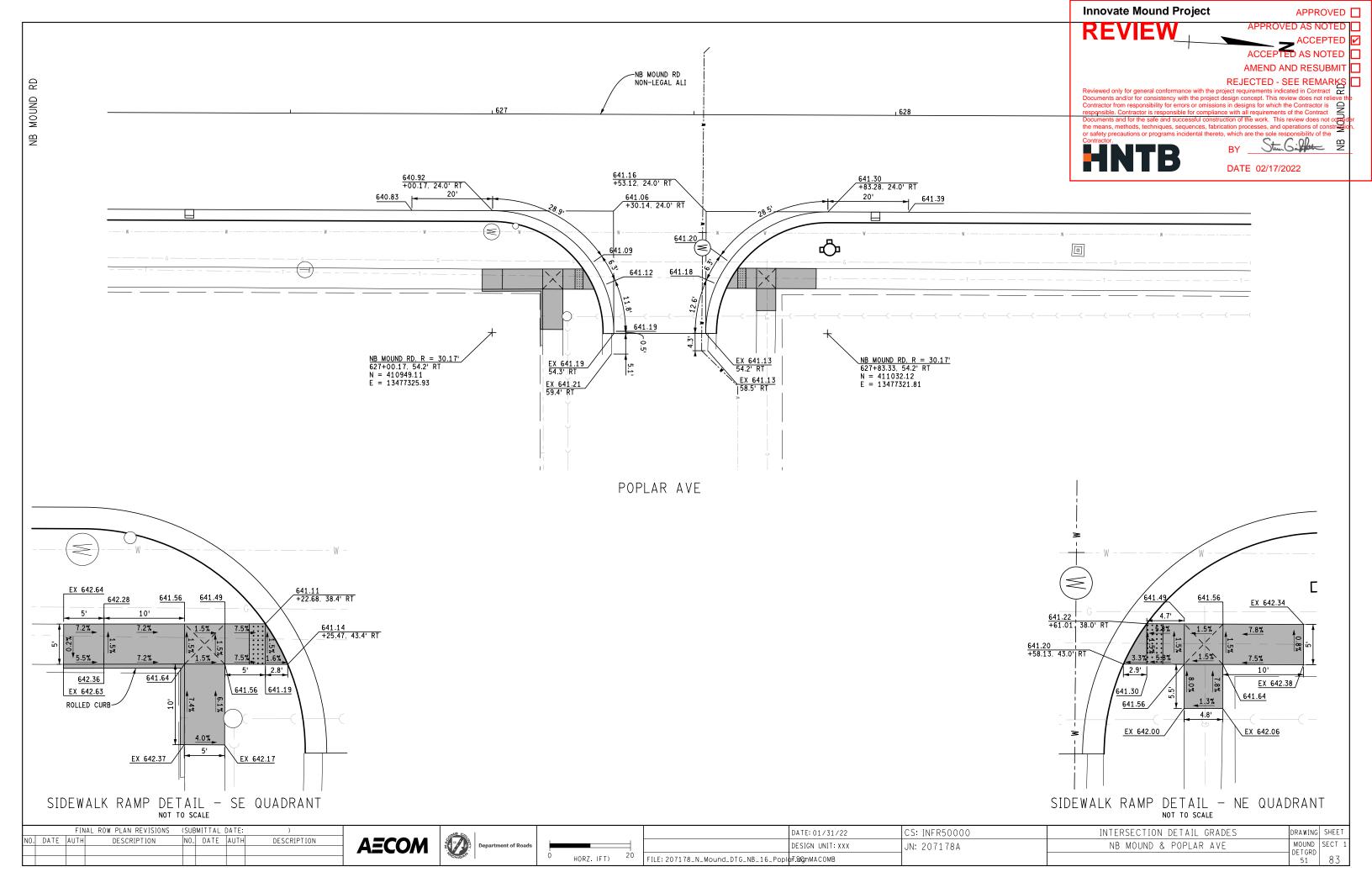


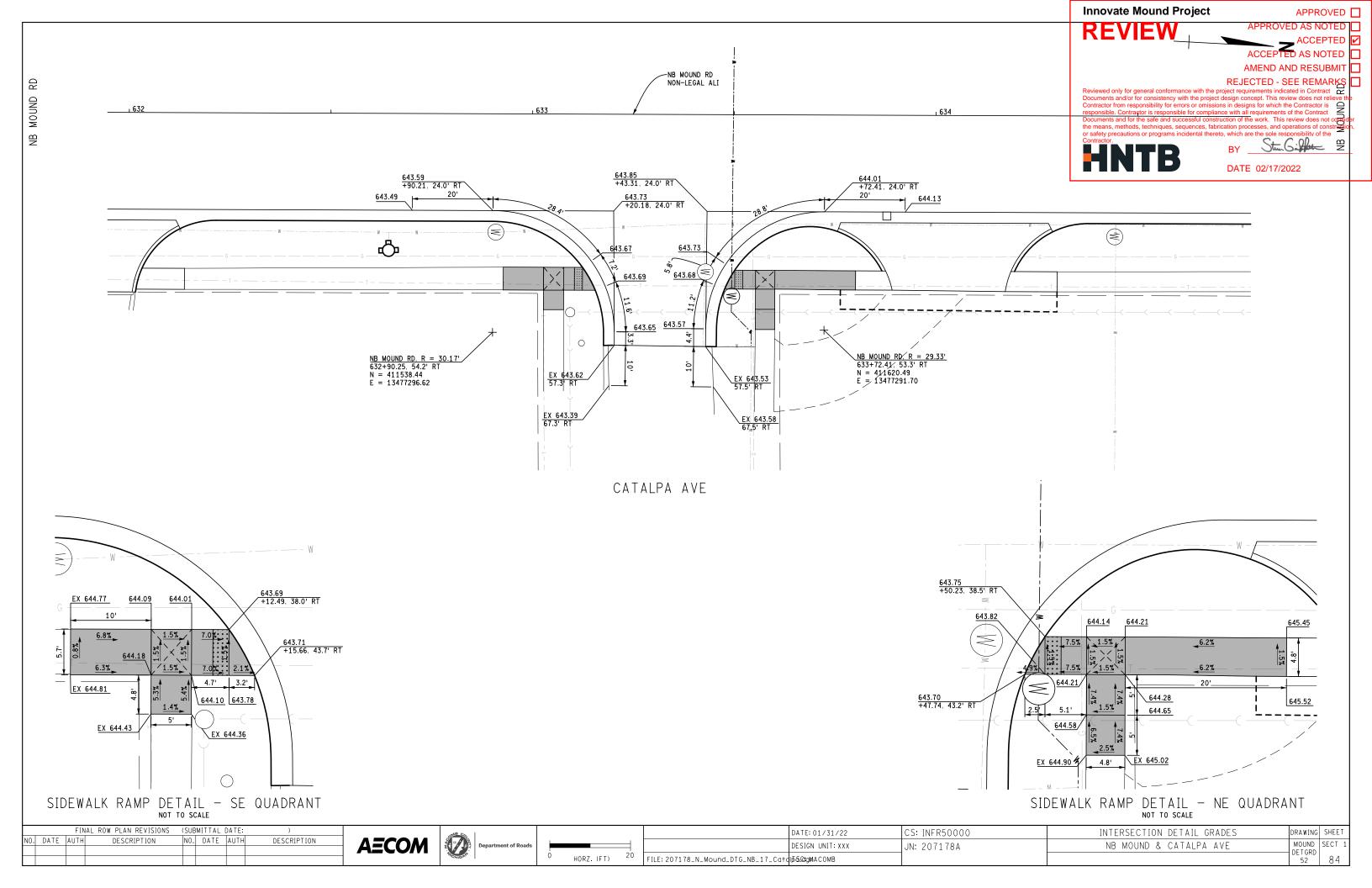


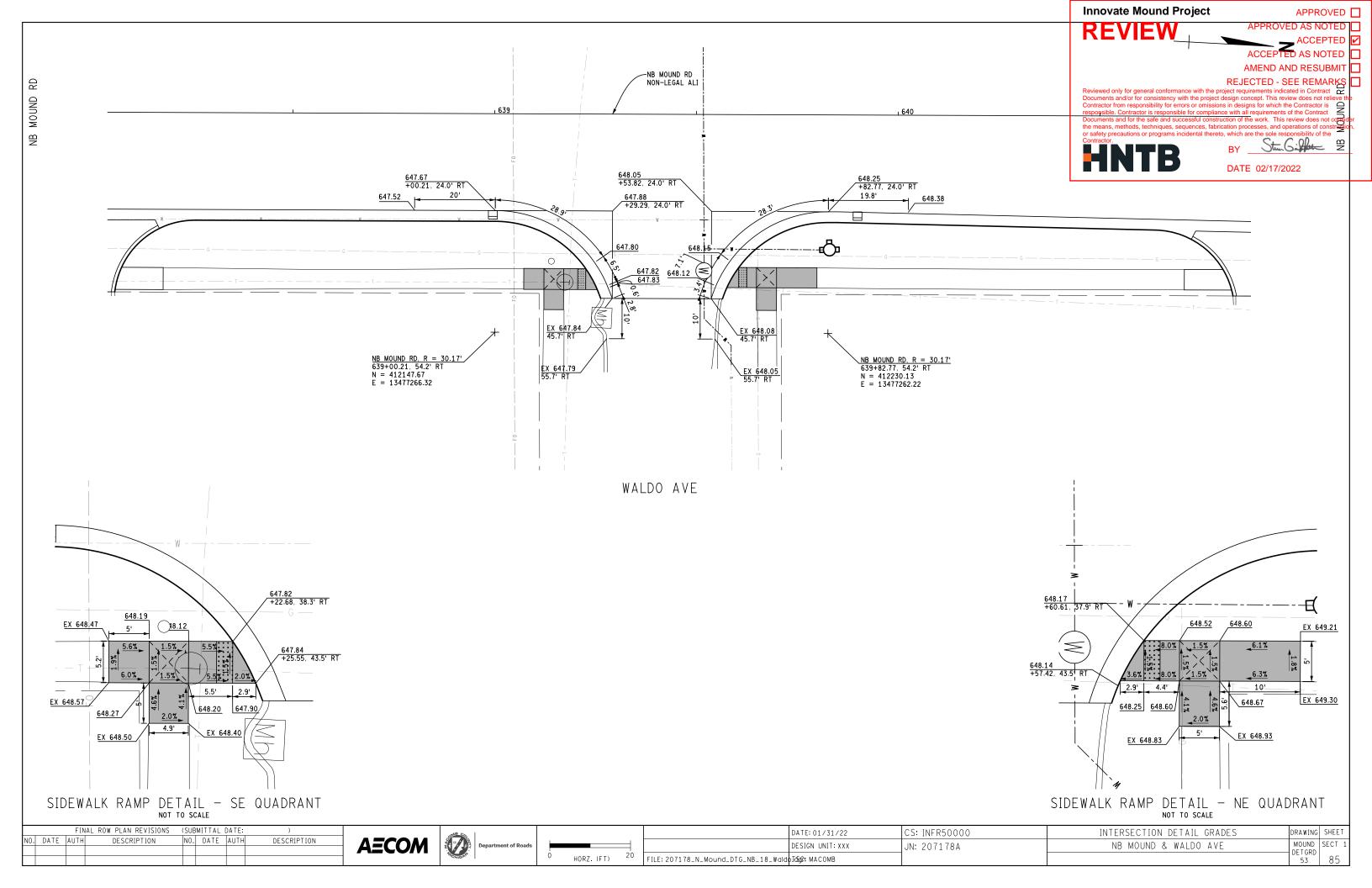


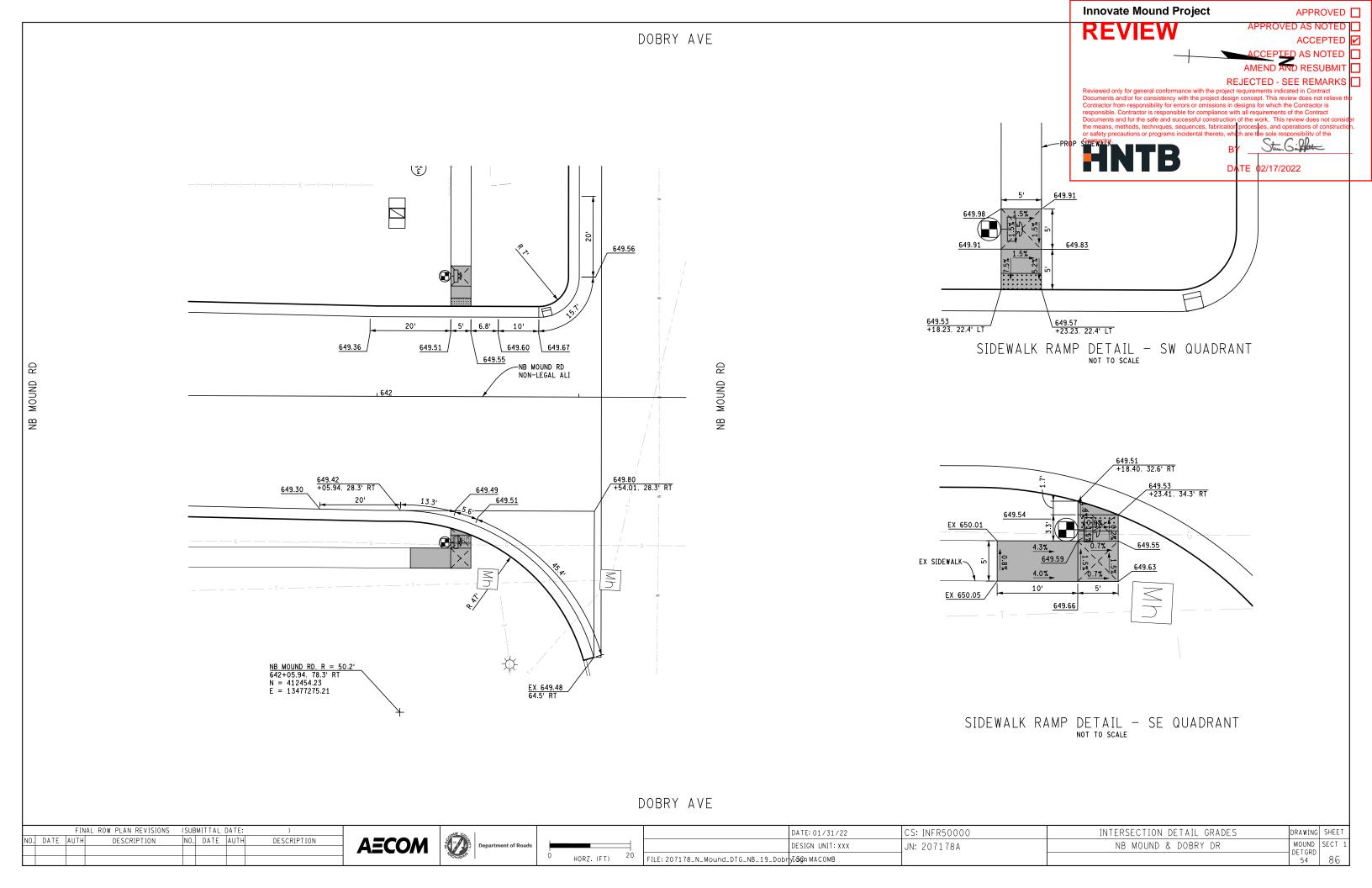


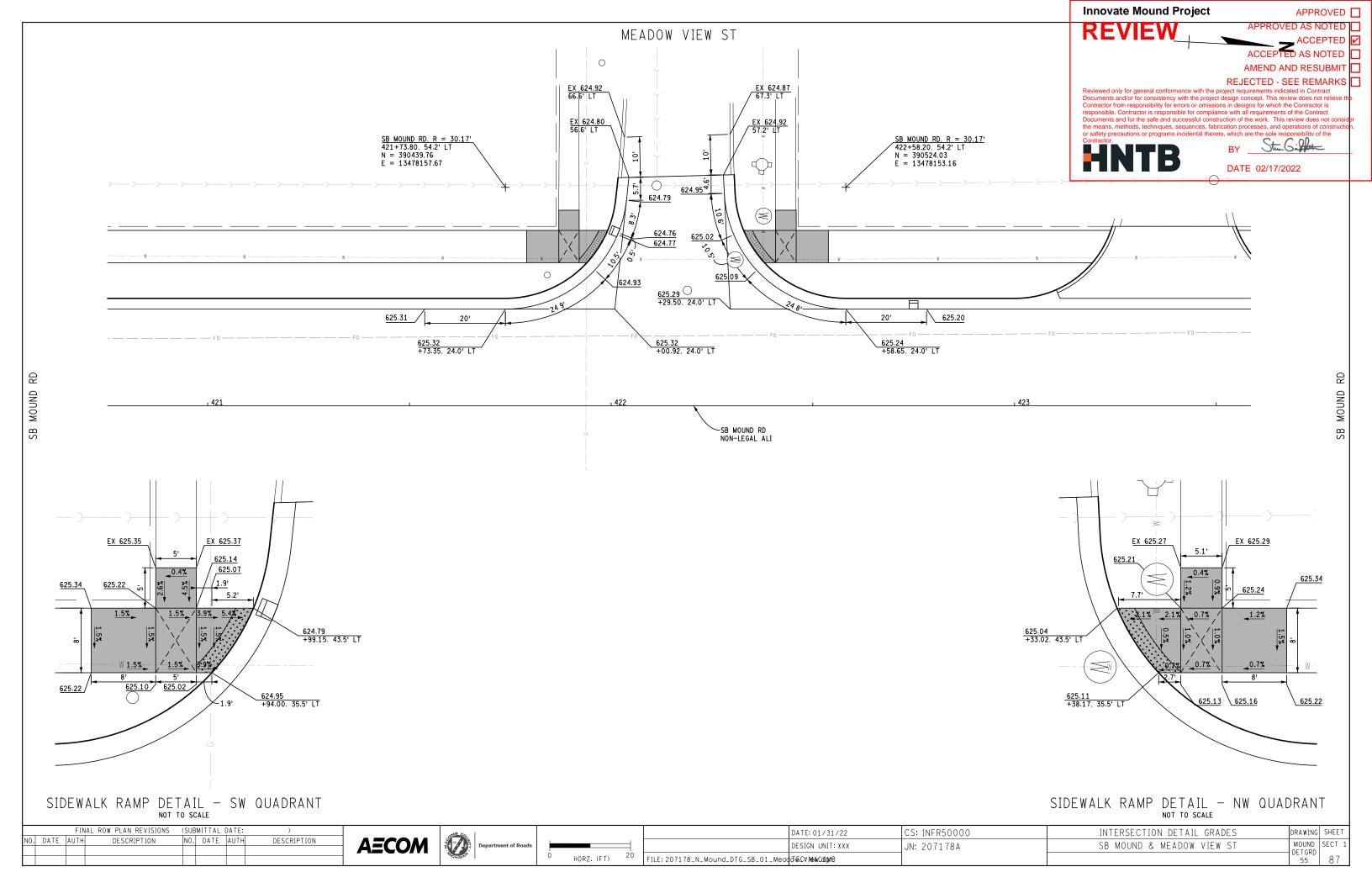


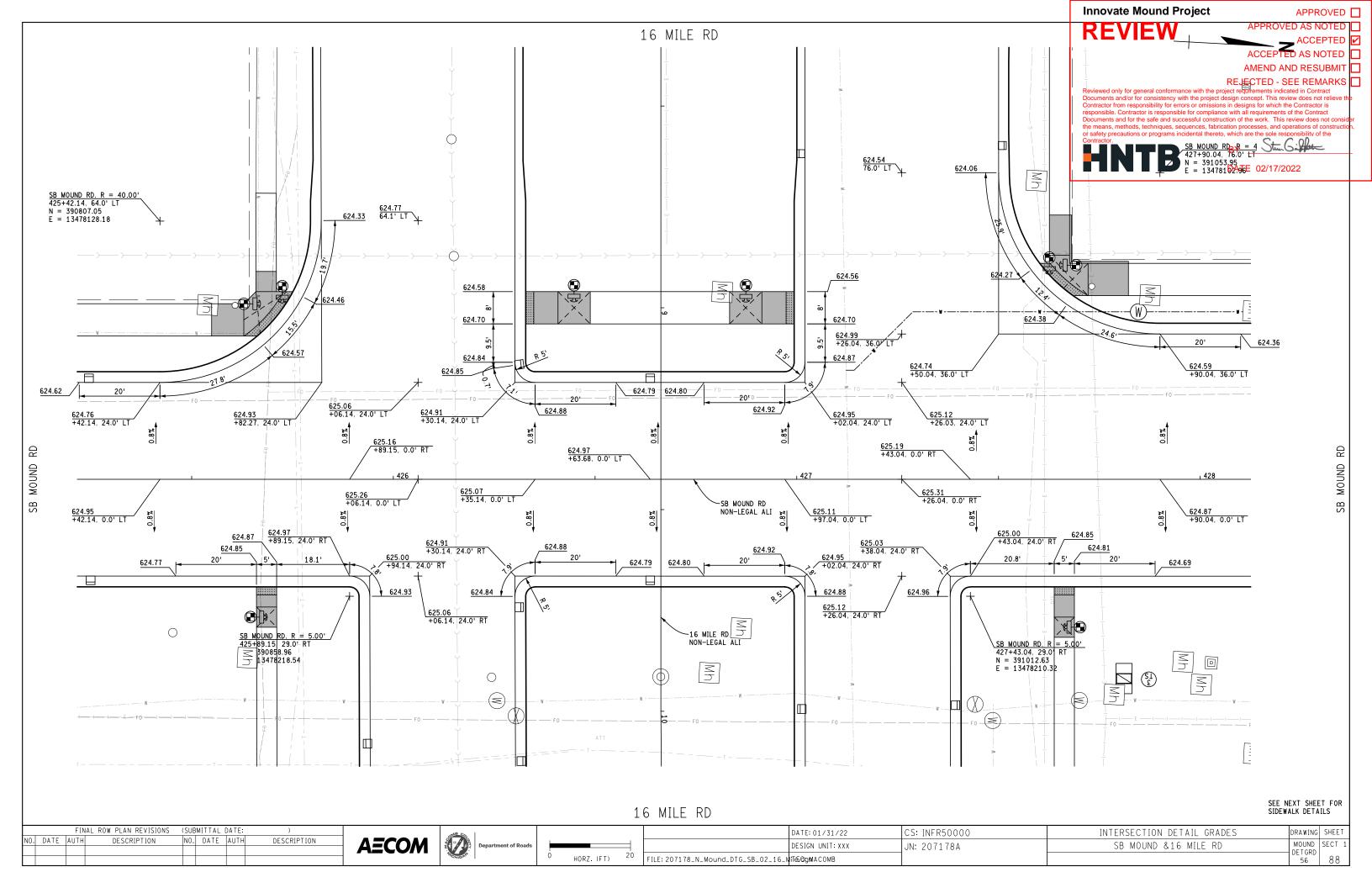


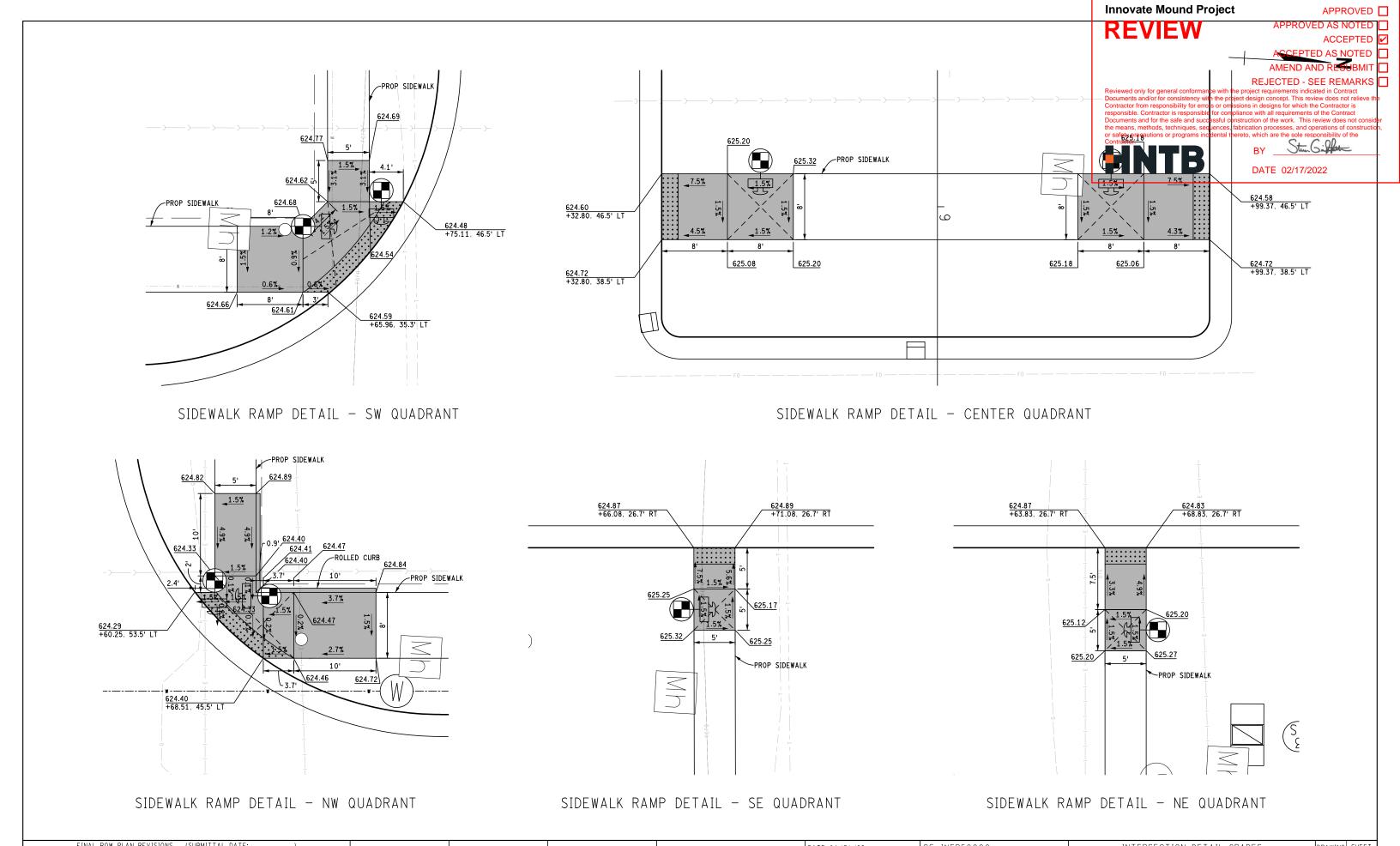




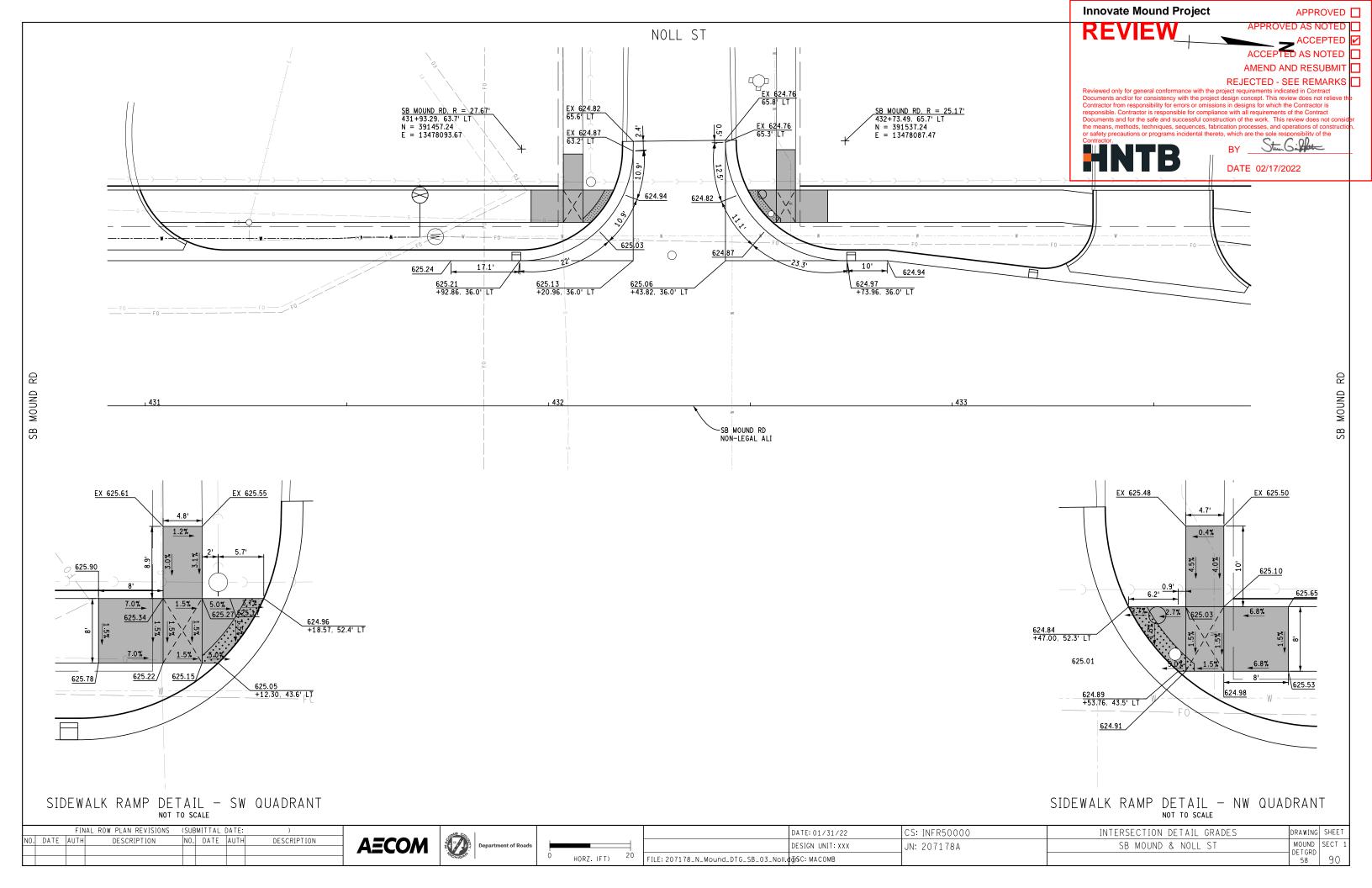


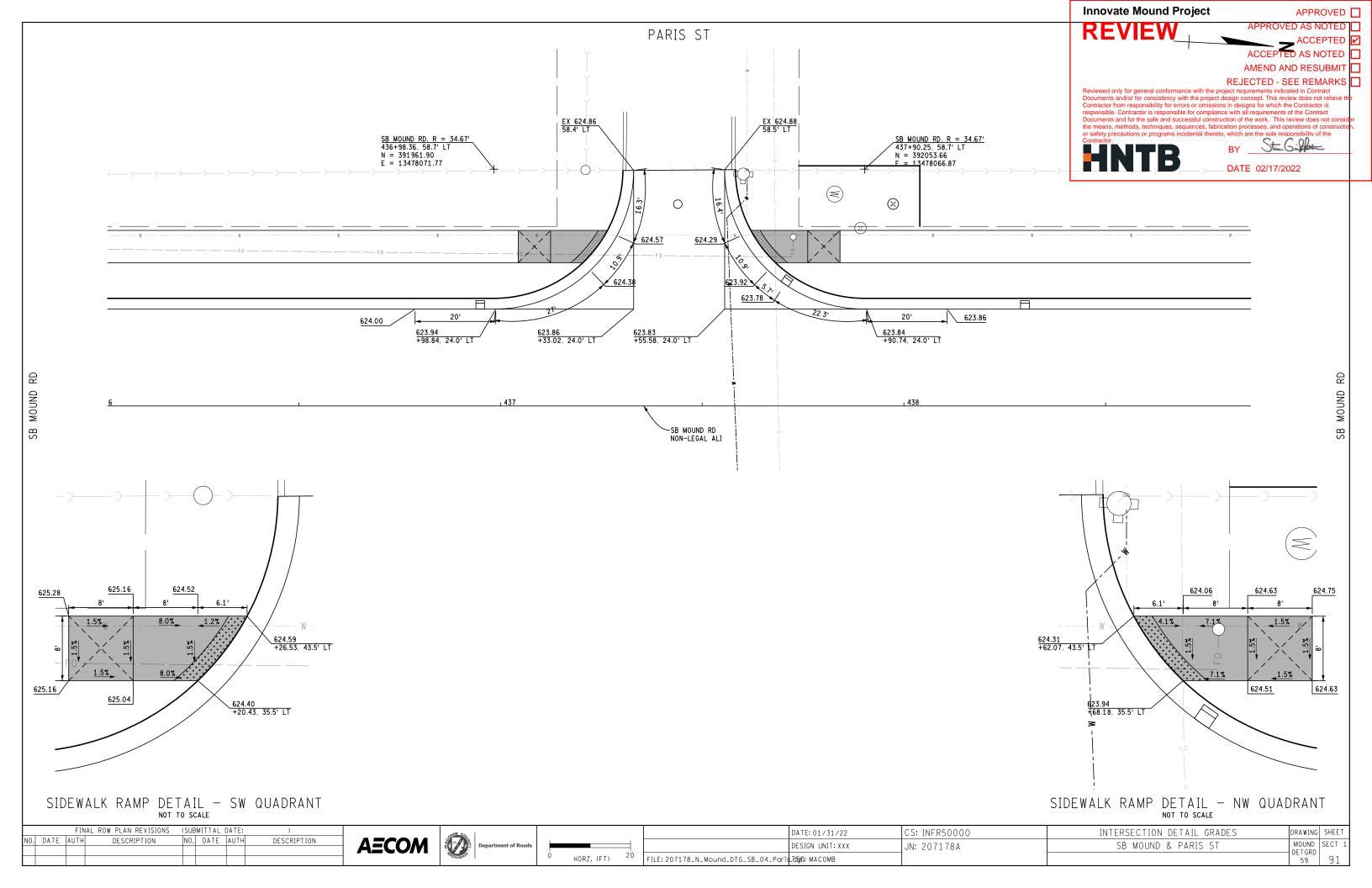


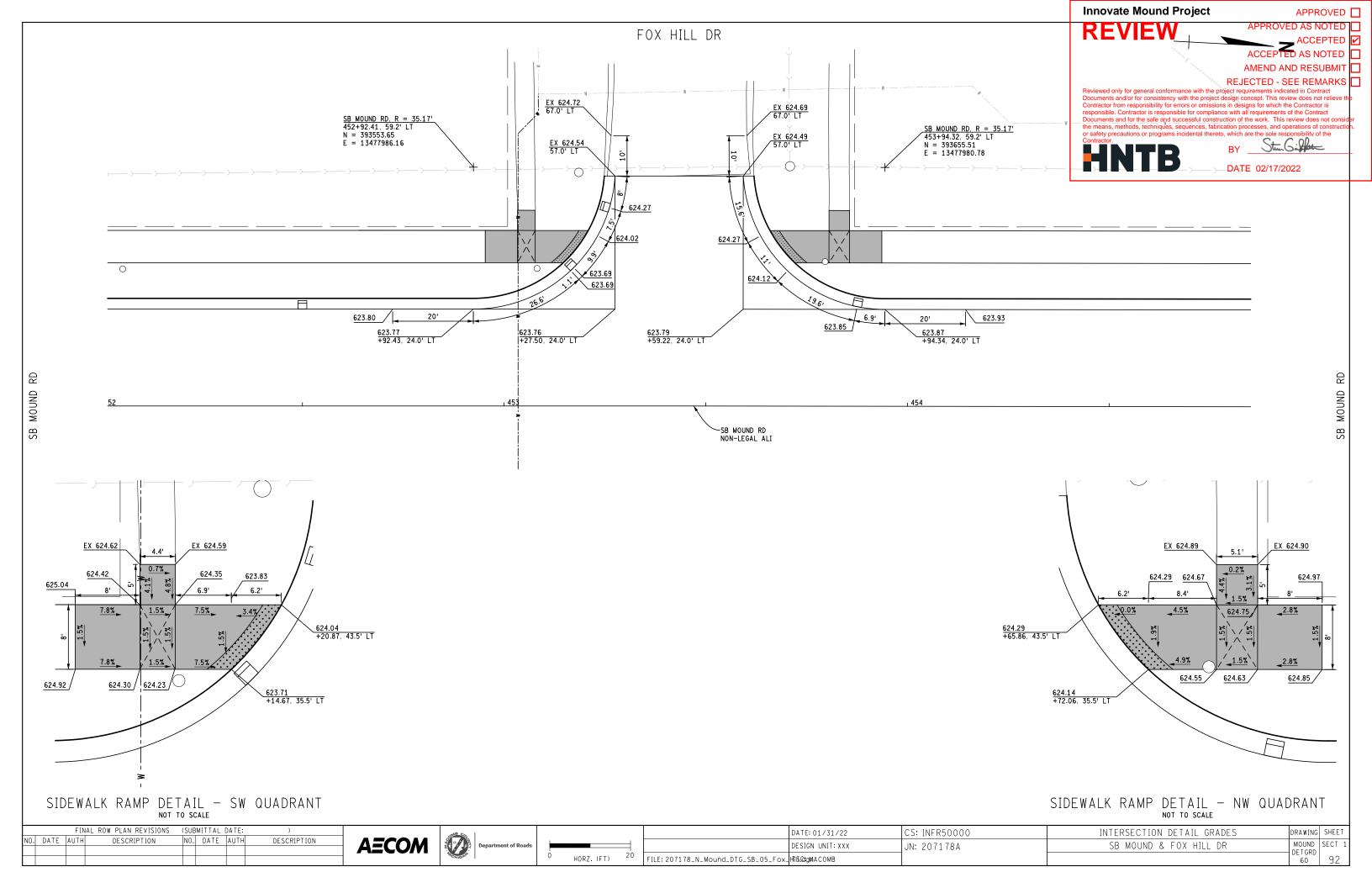


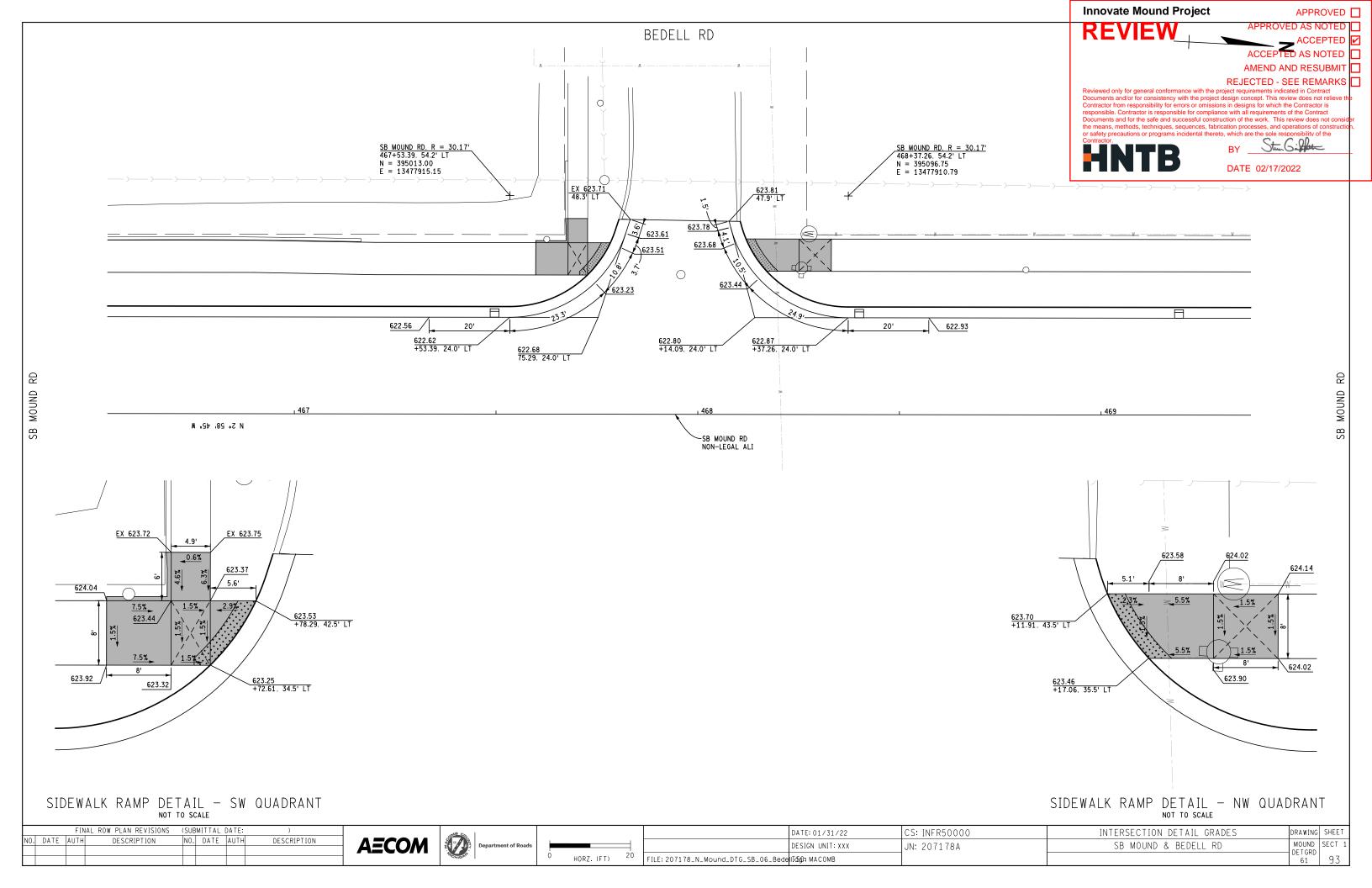


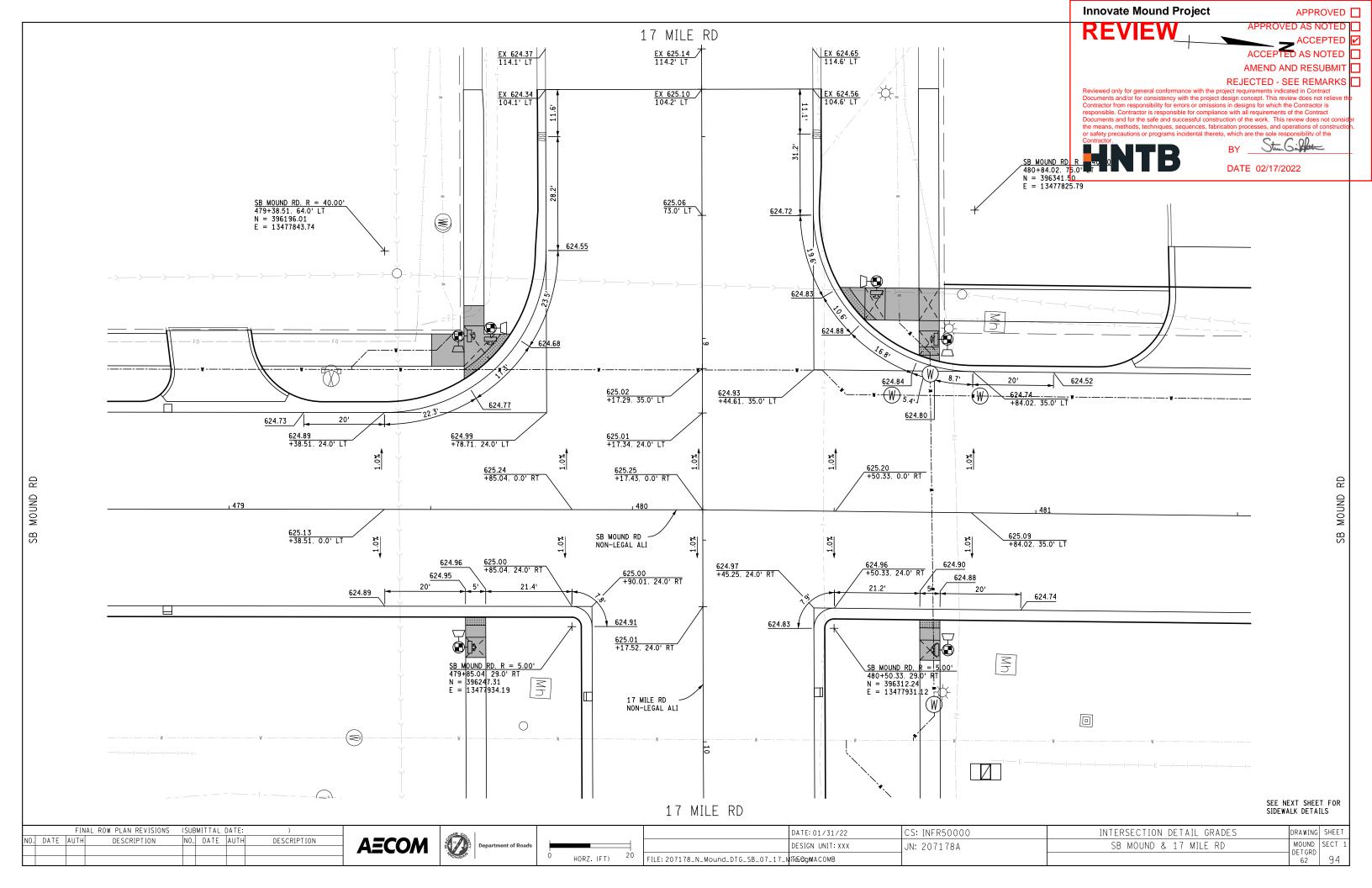
DATE AUTH DESCRIPTION NO DATE AUTH DESCRIPTION	Ophi Co	DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING SHEET
DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION	COM Department of Roads	DESIGN UNIT: XXX	JN: 207178A	SB MOUND & 16 MILE RD	MOUND SECT 1
		10	- ON. 201110A	35 M 31	DETGRD
	HORZ. (F	FILE: 207178_N_Mound_DTG_SB_02A_16_MISE_dbyACOMB			57   89

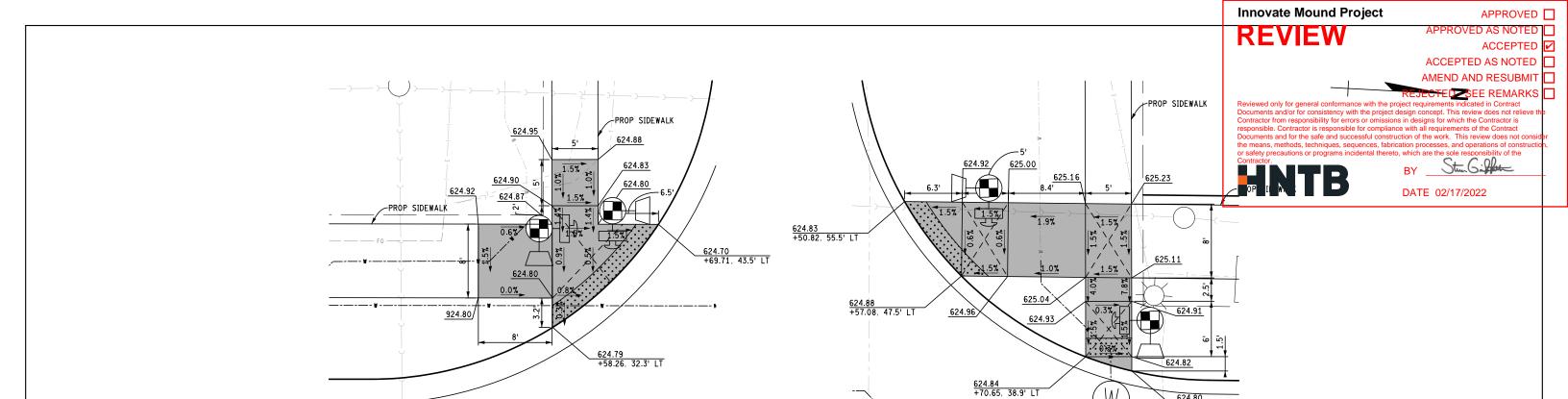






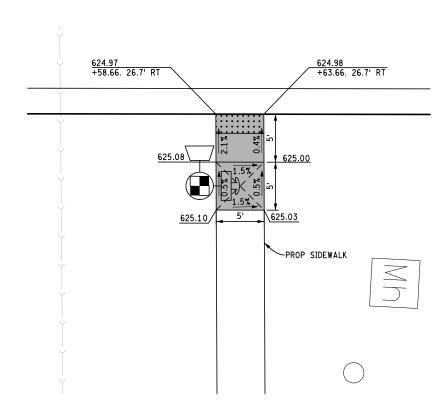




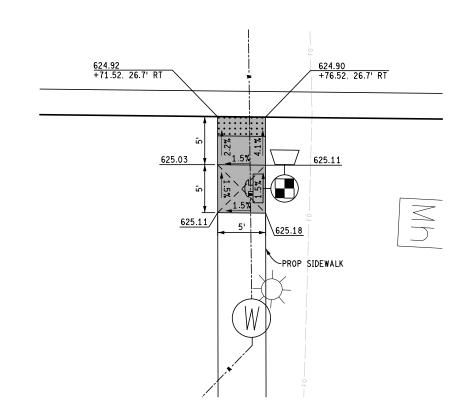


SIDEWALK RAMP DETAIL - SW QUADRANT

SIDEWALK RAMP DETAIL - NW QUADRANT

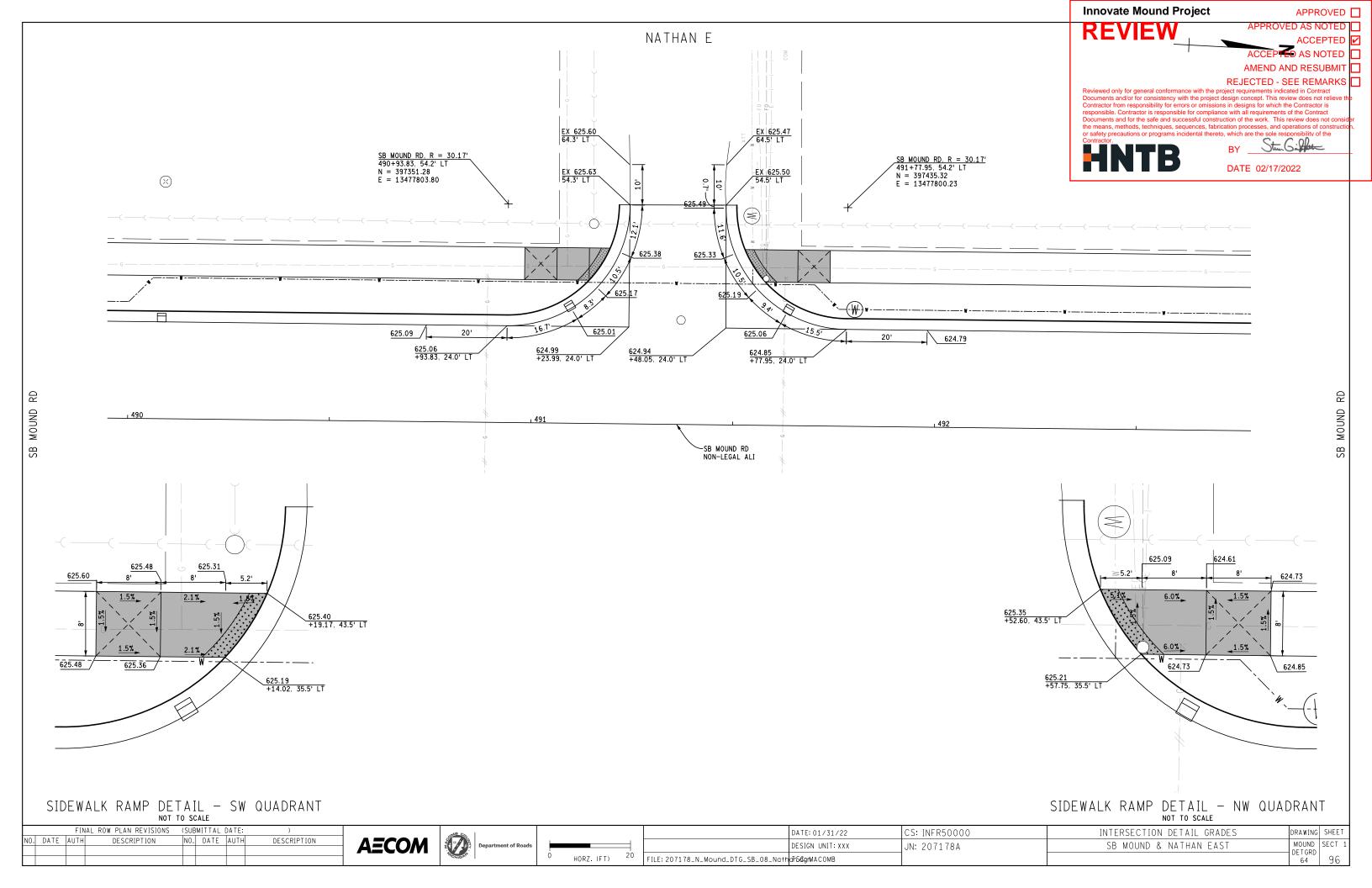


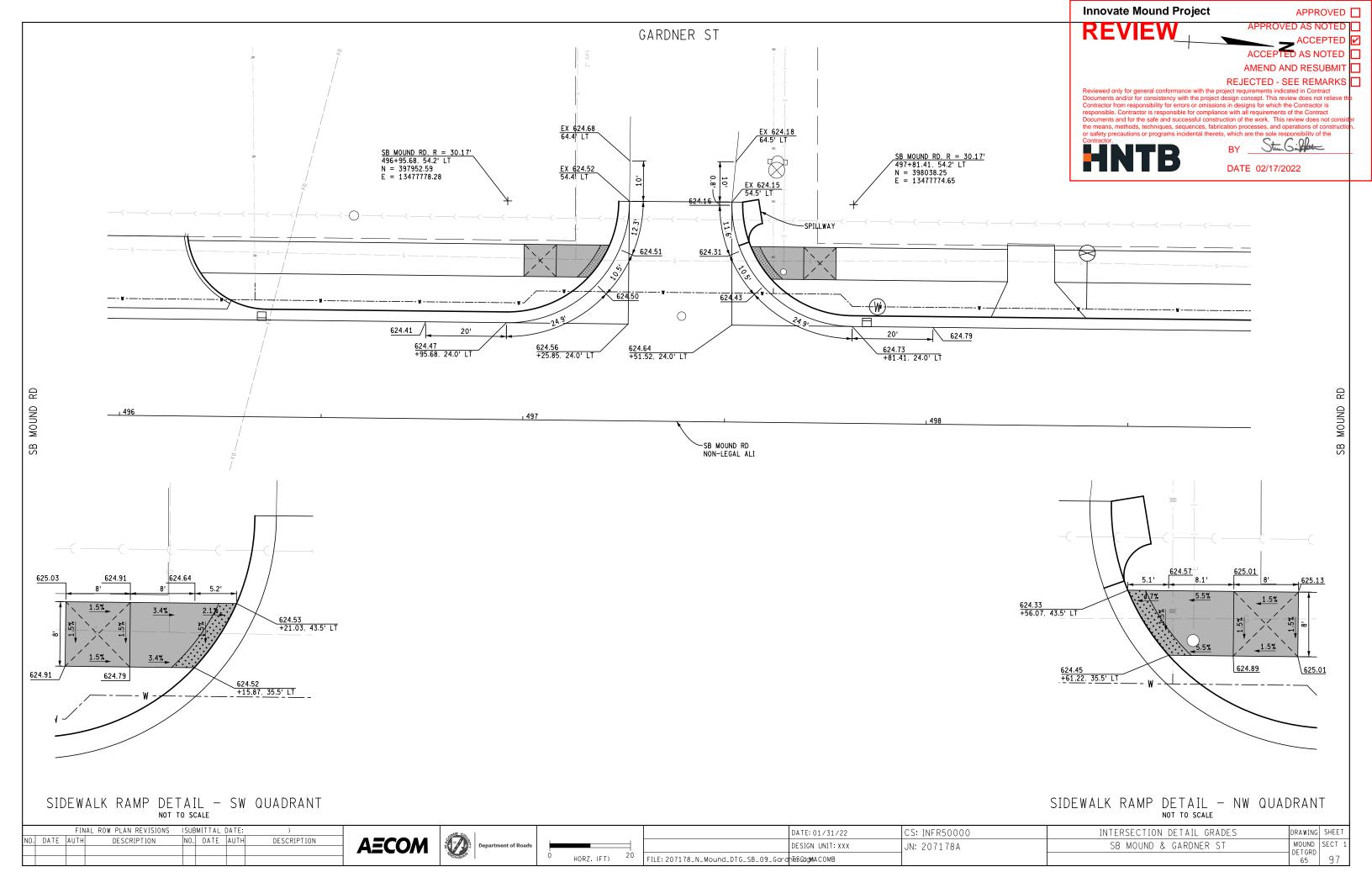
SIDEWALK RAMP DETAIL - SE QUADRANT

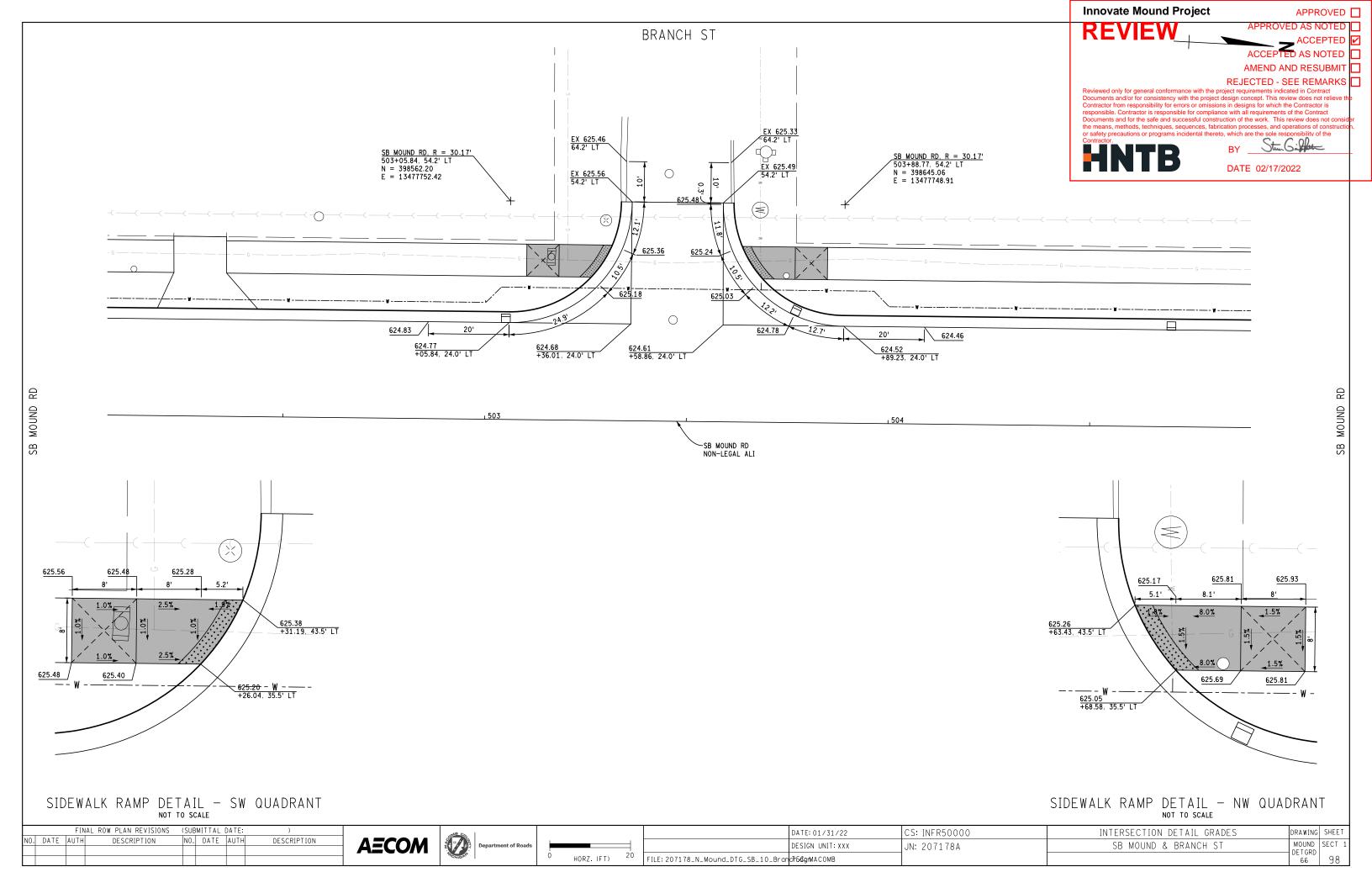


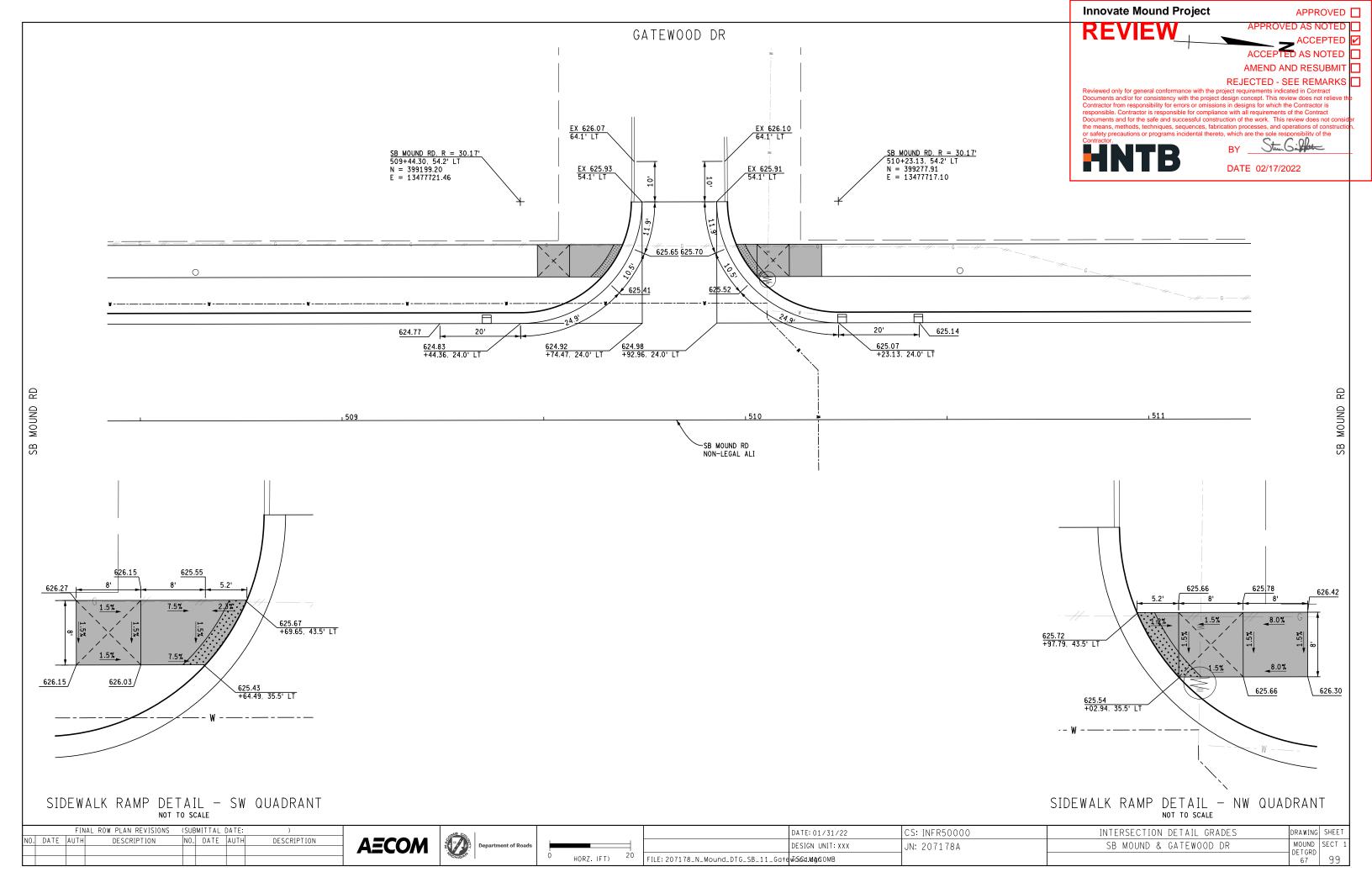
SIDEWALK RAMP DETAIL - NE QUADRANT

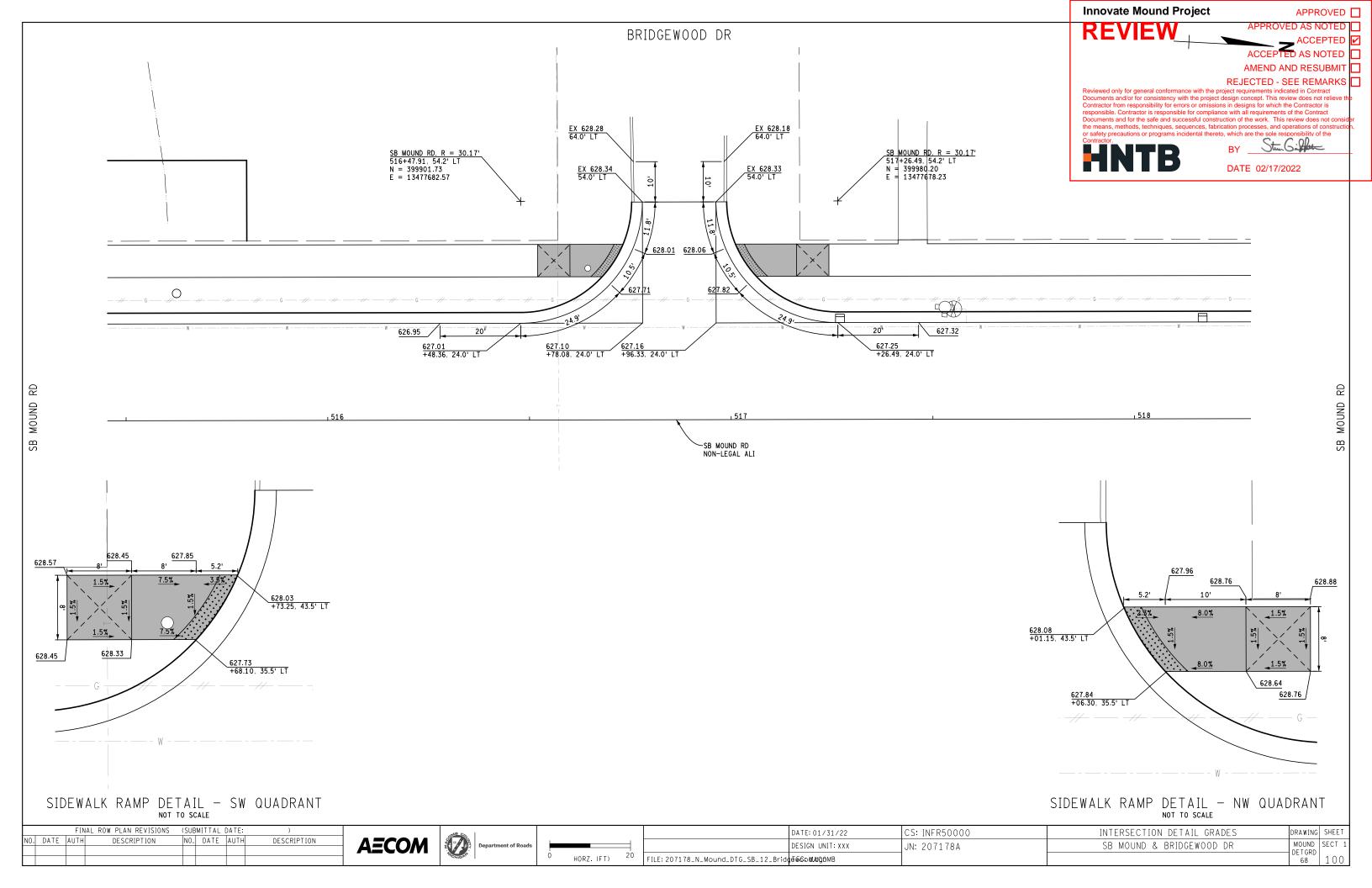
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: )	ONAB CO.		DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING SI	SHEET
NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION	AECOM Department of Roads		DESIGN UNIT: XXX	JN: 207178A	SB MOUND & 17 MILE RD	MOUND SE	ECT 1
	MCHIG K	O HORZ. (FT) 10	FILE: 207178_N_Mound_DTG_SB_07A_17_MisedbyAC0MB			63	95

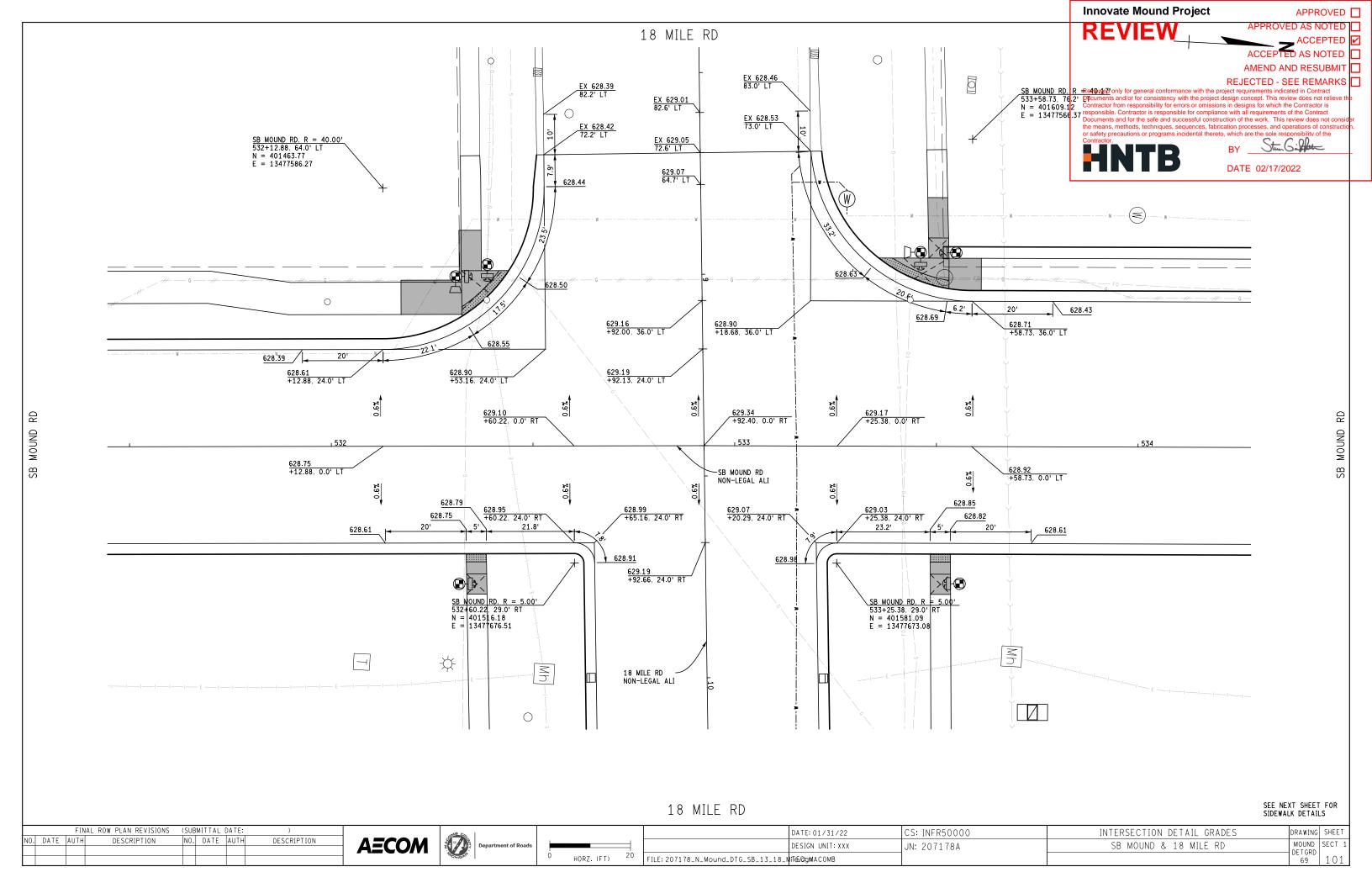


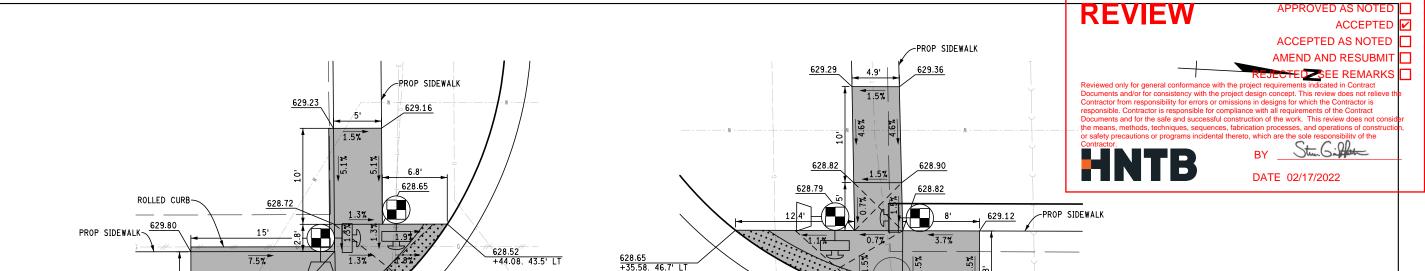












SIDEWALK RAMP DETAIL - SW QUADRANT

628.57 +32.49, 32.2' LT

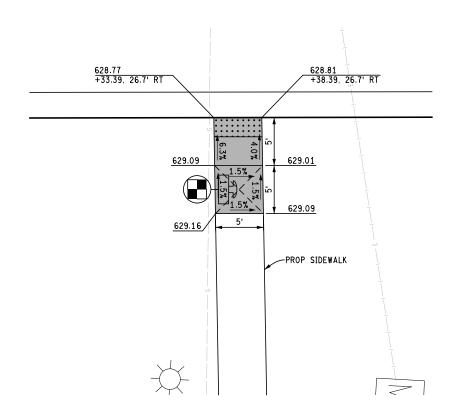
629.68

SIDEWALK RAMP DETAIL - NW QUADRANT

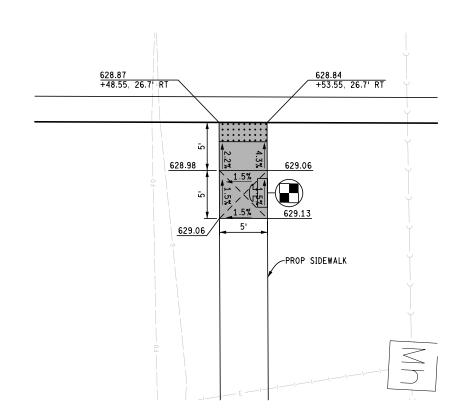
628. +53.00, 39.1' LT 629.00

**Innovate Mound Project** 

APPROVED

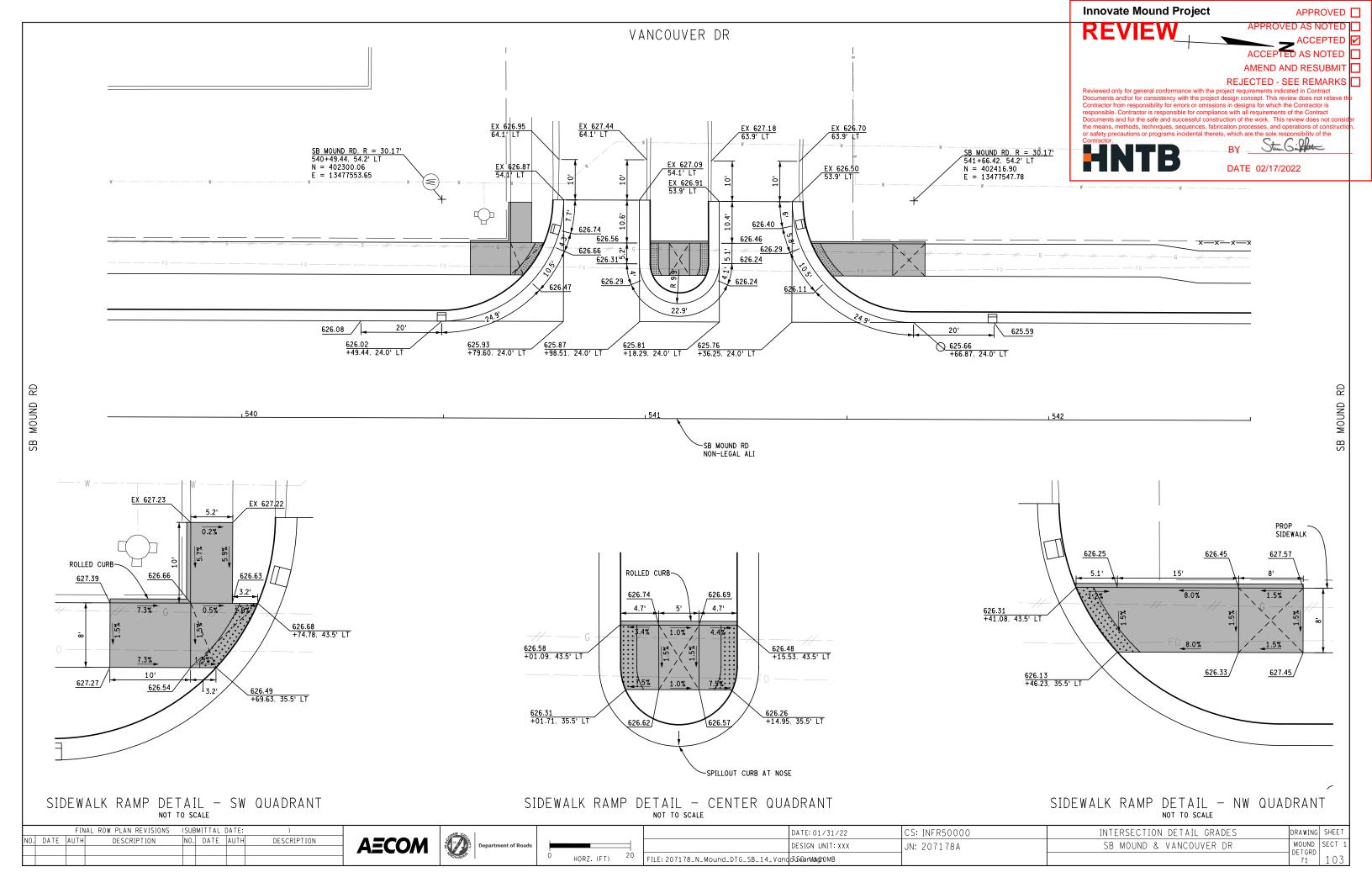


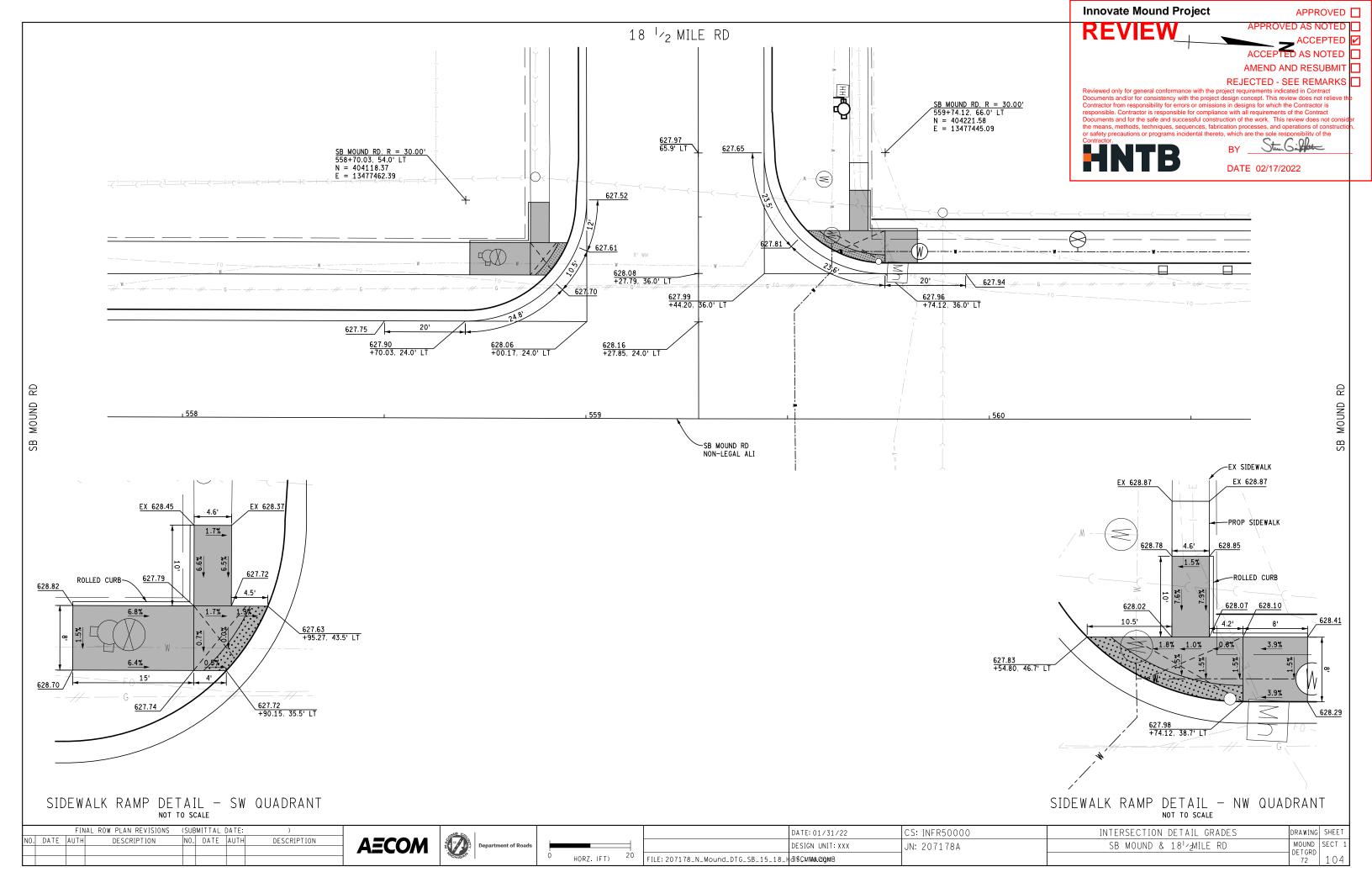
SIDEWALK RAMP DETAIL - SE QUADRANT

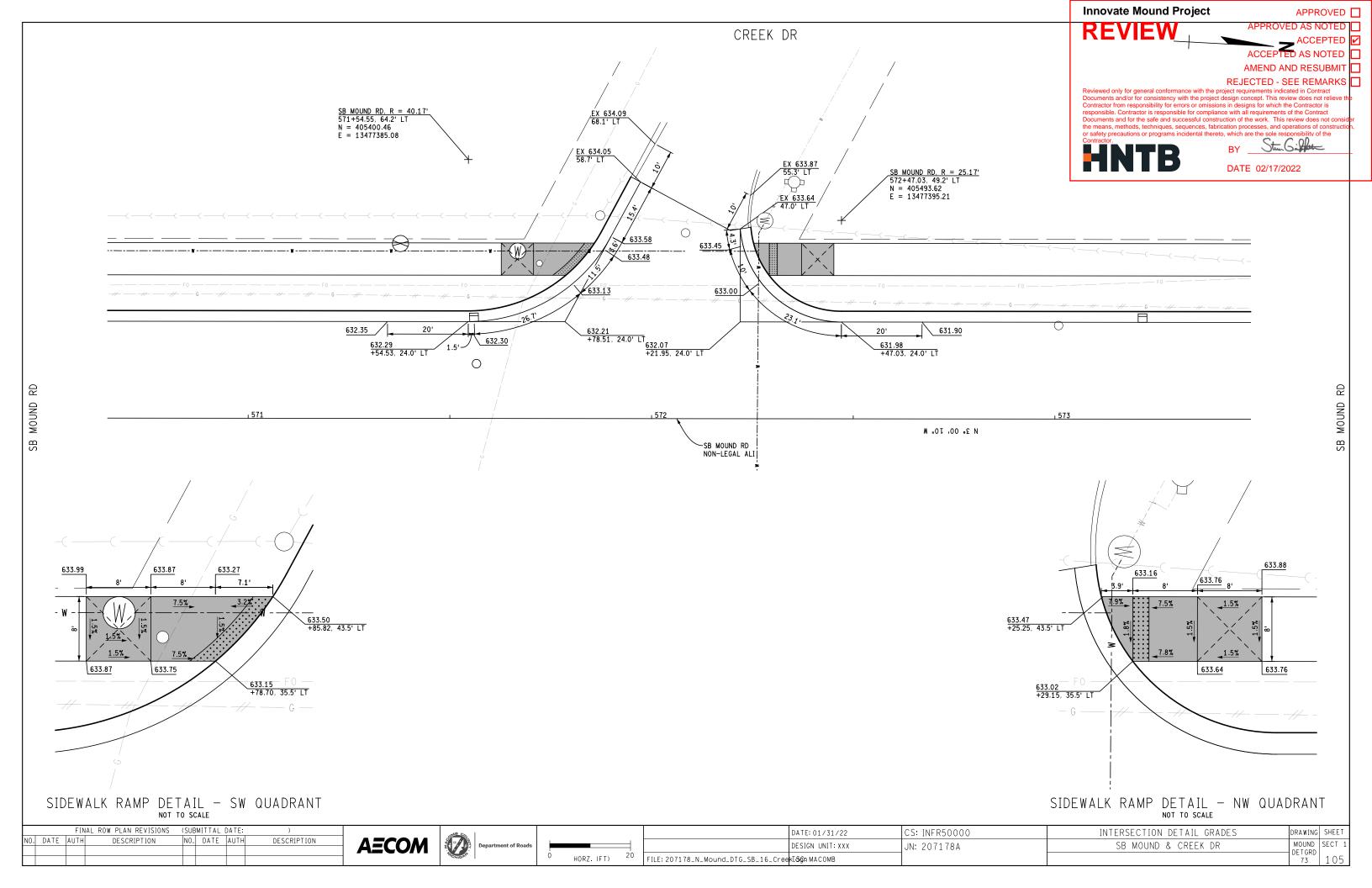


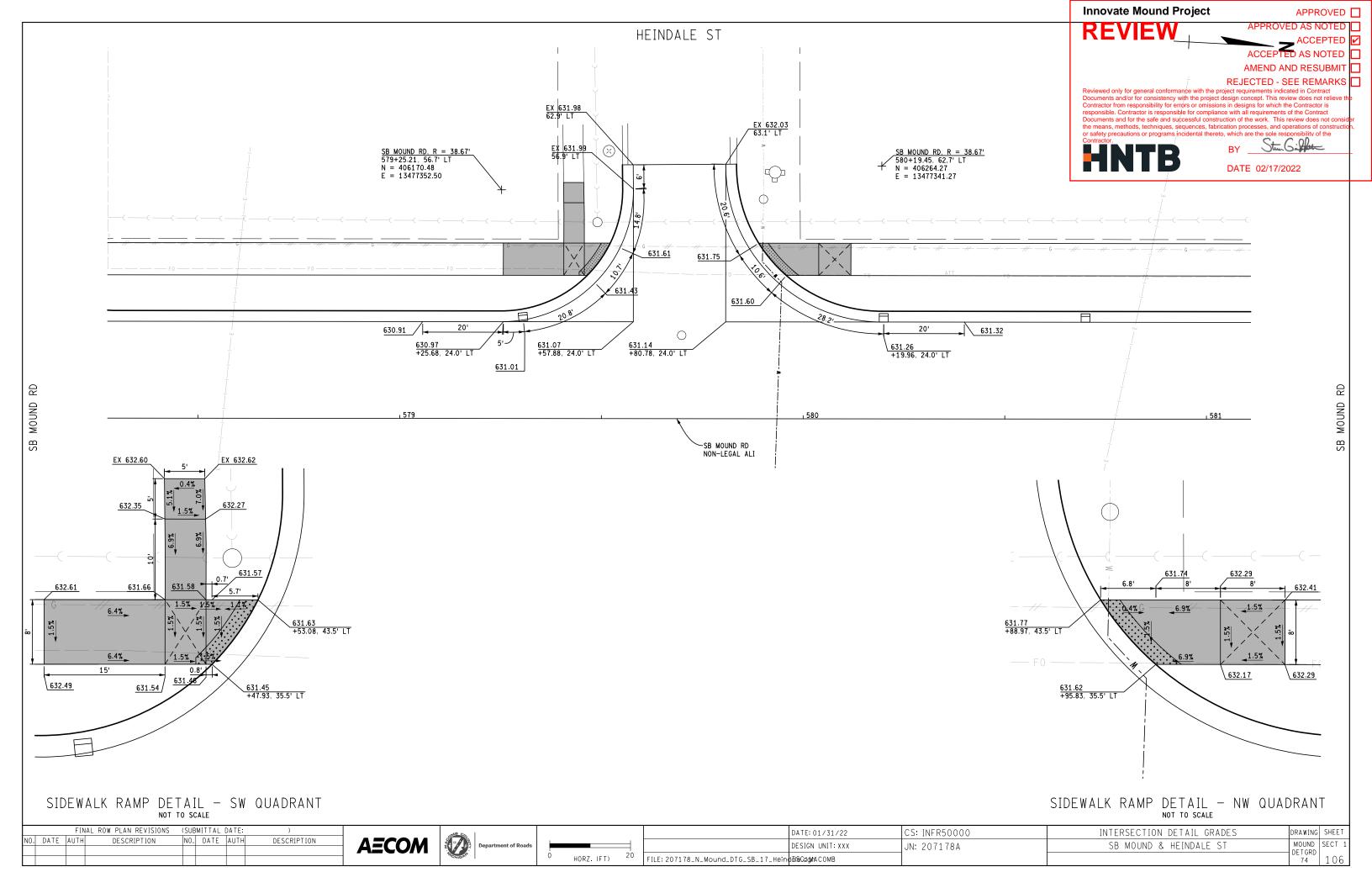
SIDEWALK RAMP DETAIL - NE QUADRANT

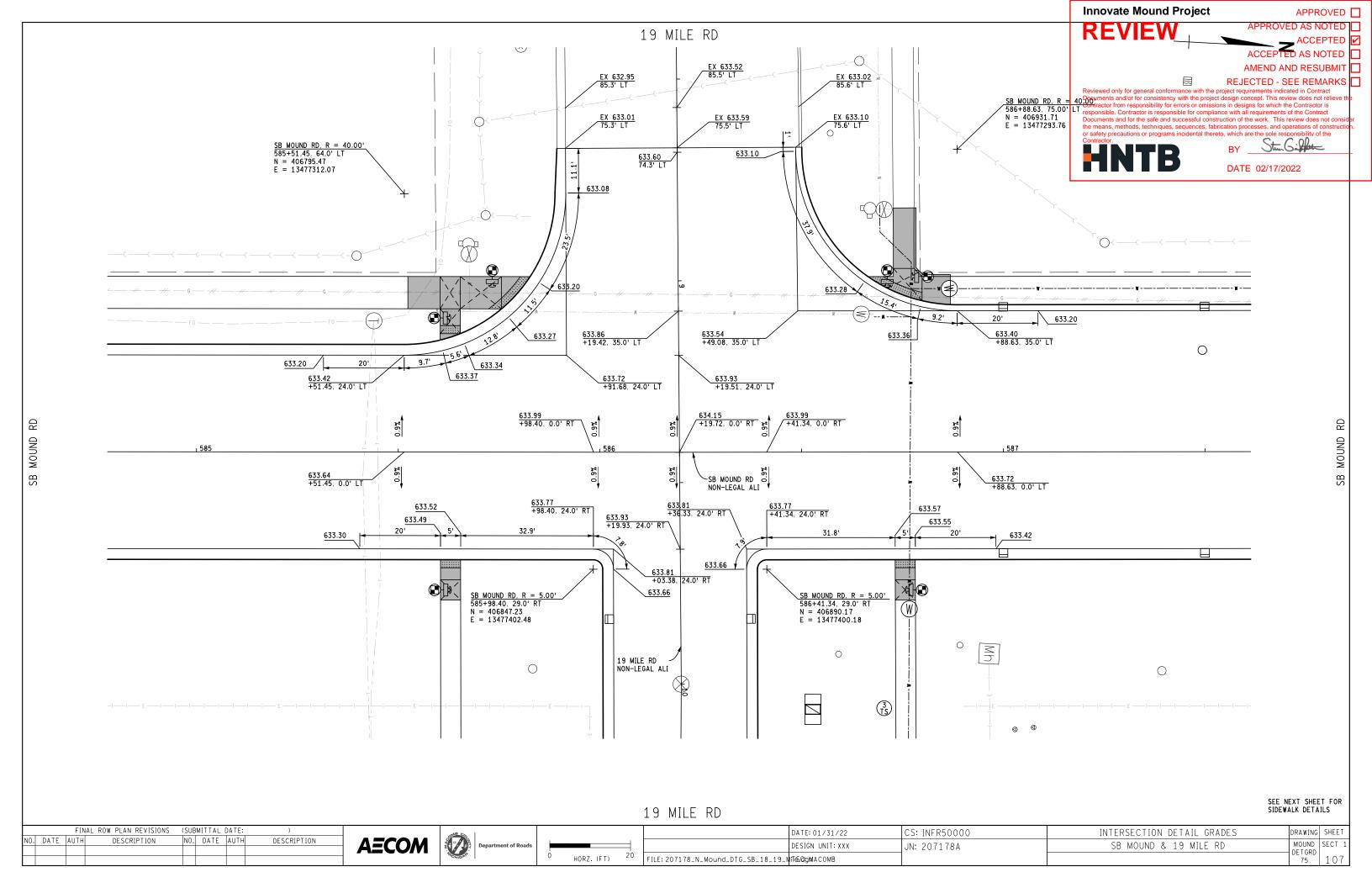
	FINAL ROW PLAN REVISIONS	(SUBMITTAL	ATE:	)		DMB CO.			DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING	SHEET
NO. DATE AL	JTH DESCRIPTION	NO. DATE	AUTH	DESCRIPTION	<b>AECOM</b>	Department of Roads			DESIGN UNIT: XXX	JN: 207178A	SB MOUND & 18 MILE RD	MOUND	SECT 1
					7 307	MICHIGAS	0 HORZ. (FT) 10	FILE: 207178_N_Mound_DTG_SB_13A_18	MISSE.dbyACOMB			DETGRD 70	102

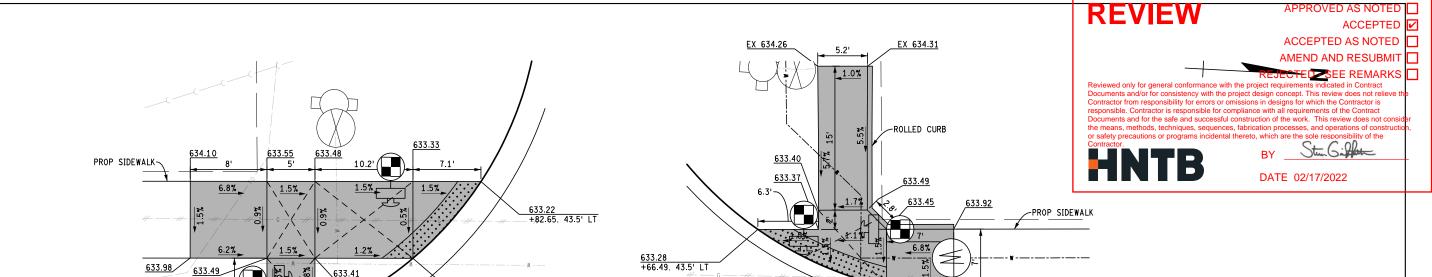












SIDEWALK RAMP DETAIL - SW QUADRANT

633.36 +65.37, 29.4' LT

633.41

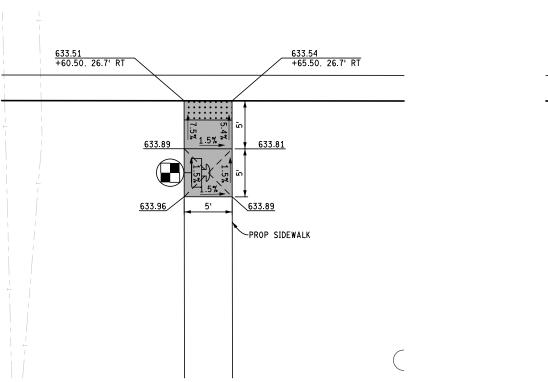
633.39 +60.37, 27.7' LT

SIDEWALK RAMP DETAIL - NW QUADRANT

\<u>633.82</u>

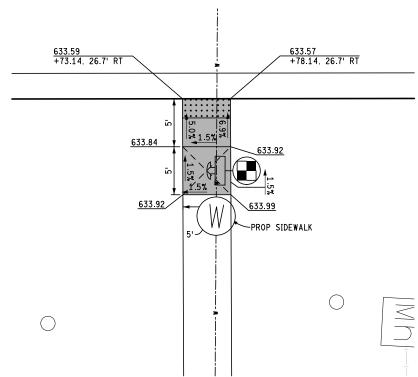
633.36 +79.90, 37.5' LT **Innovate Mound Project** 

APPROVED



633.29 +75.56, 35.5' LT

SIDEWALK RAMP DETAIL - SE QUADRANT



SIDEWALK RAMP DETAIL - NE QUADRANT

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE: )	JANE CO.	DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING S	SHEET
NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION AECOM	Department of Roads	DESIGN UNIT: XXX	JN: 207178A	SB MOUND & 19 MILE RD	MOUND SE	ECT 1
	O HORZ. (FT)	FILE: 207178_N_Mound_DTG_SB_18A_19_NTSE.dbjACOMB			76	108

