



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-Builders' Project Manager certifies that they have reviewed this submittal and agrees with the information presented.

Steve Lampton
Dan's Excavating, Inc.
Design-Build Project Manager

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

REVIEW

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

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HNTB

BY

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

Innovate Mound Project

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SHEET INDEX	
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Removal, Construction, Drainage, Grading and Sidewalk Plan	203-210
Section 1 – ProjectPDF (Profile) Road Plans	
Profile	301-304

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



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 RAILINGS)	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 *

* Denotes Special Detail

Innovate Mound Project

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FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								 	NO SCALE		DATE: 01/31/22	CS: INFR50000	PROJECT INFORMATION SHEET	DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION				DESIGN UNIT: XXX	JN: 207178A		MOUND PROJ 003	SECT 1 3
											FILE: 207178 Project Info Sheet.doc	TSC: MACOMB			

Innovate Mound Project

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UTILITIES

COMBINED SEWER


 COMBINED SEWER


 COMBINED SEWER - OUT OF SERVICE


 COMBINED SEWER - TO BE TAKEN OUT OF SERVICE

 COMBINED SEWER - TO BE REMOVED


COMMUNICATION


 FIBER OPTIC

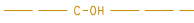
 FIBER OPTIC - OUT OF SERVICE

 FIBER OPTIC - OVERHEAD

 FIBER OPTIC MARKER


 CABLE


 CABLE - OUT OF SERVICE

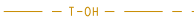
 CABLE - OVERHEAD

 CABLE MARKER

 CABLE PEDESTAL

 TELEPHONE

 TELEPHONE - OUT OF SERVICE

 TELEPHONE - OVERHEAD

 TELEPHONE BOX


 TELEPHONE MANHOLE


 TELEPHONE PEDESTAL


FUEL / PETROLEUM

 GASOLINE FILLER PIPE

 GASOLINE PUMP


 GASOLINE UNDERGROUND TANK

 PETROLEUM PIPELINE


 PETROLEUM PIPELINE - OUT OF SERVICE


 PETROLEUM PIPELINE MARKER

 PETROLEUM WELL

 PROPANE TANK

NATURAL GAS

 GAS LINE

 GAS LINE - OUT OF SERVICE


 MARKER


 VALVE


 WELL


SANITARY SEWER

 MANHOLE WITH COVER (DIA VARIES)

 SEWER

 SEWER - OUT OF SERVICE

 SEWER - TO BE TAKEN OUT OF SERVICE

 SEWER - TO BE REMOVED

WATER

 FIRE HYDRANT

 GATE VALVE AND BOX

 GATE VALVE IN WELL


 IRRIGATION CONTROL VALVE


 IRRIGATION SPRINKLER HEAD

 SERVICE METER


 SERVICE SHUTOFF


 WATER WELL

 IRRIGATION

 WATER MAIN

 WATER MAIN - OUT OF SERVICE

 WATER MAIN - TO BE TAKEN OUT OF SERVICE


 WATER MAIN - TO BE REMOVED

STEAM

 STEAM MANHOLE COVER

 STEAM MANHOLE (DIA VARIES)

 STEAM

 STEAM - OUT OF SERVICE

GENERIC EXISTING UTILITIES

 CATCH BASIN COVER

 MANHOLE COVER

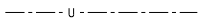
 MARKER

 PEDESTAL


 SEWER CLEANOUT ACCESS


 STRUCTURE BOTTOM (DIA VARIES)


 UTILITY BOX


 UTILITY

DRAINAGE


 CATCH BASIN W/ COVER (DIA VARIES)


 DRAINAGE STRUCTURE NUMBER


 DRAIN CASTING


 DROP INLET


 END SECTION (SIZE VARIES)


 FLOW DIRECTION ARROW


 HEADWALL (SIZE VARIES)

 MANHOLE W/ COVER (DIA VARIES)


 MANHOLE BASE W/ COVER (SIZE VARIES)


 MANHOLE TEE W/ COVER (SIZE VARIES)


 OUTLET HEADWALL (SIZE VARIES)


 CULVERT - EXISTING


 CULVERT (SIZE VARIES)


 DITCH CENTERLINE

 STORM SEWER - EXISTING

 STORM SEWER

 STORM SEWER - TO BE REMOVED

 UNDERDRAIN

 WATER EDGE

NOTE:










































EXISTING ITEMS ARE REPRESENTED BY THIN LINE WEIGHTS.
PROPOSED ITEMS ARE REPRESENTED BY HEAVIER LINE WEIGHTS.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								AECOM	 Department of Roads	NO SCALE	DATE: 01/31/22	CS: INFR50000	LEGEND	DRAWING	SHEET				
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION												
FILE: 207178_Legend.dgn											TSC: MACOMB		JN: 207178A						
														MOUND LEGEND 2	SECT 1 5				



APPROVED ☐

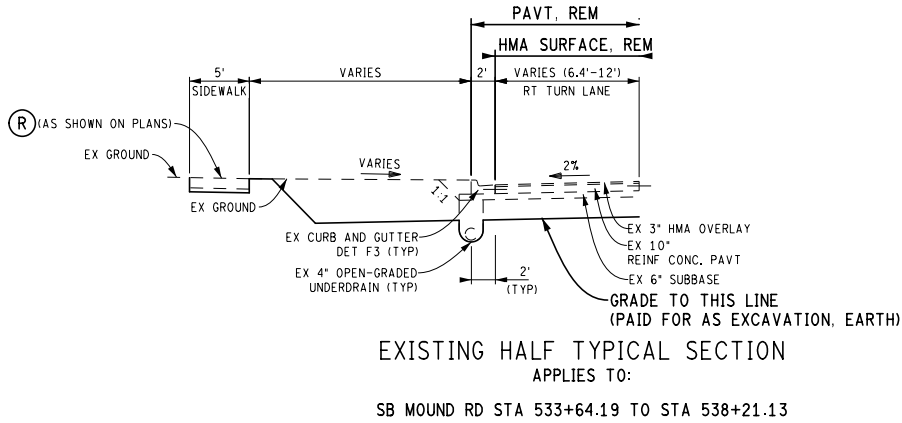
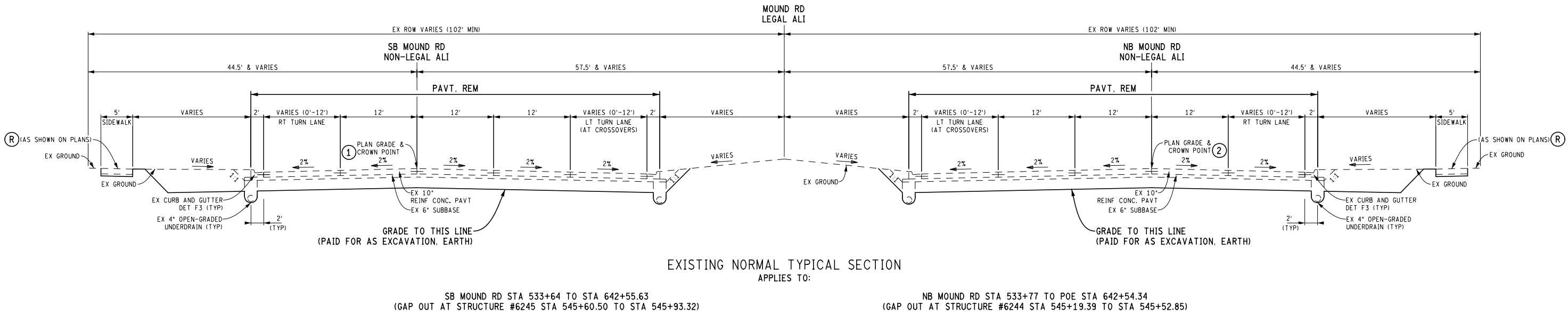
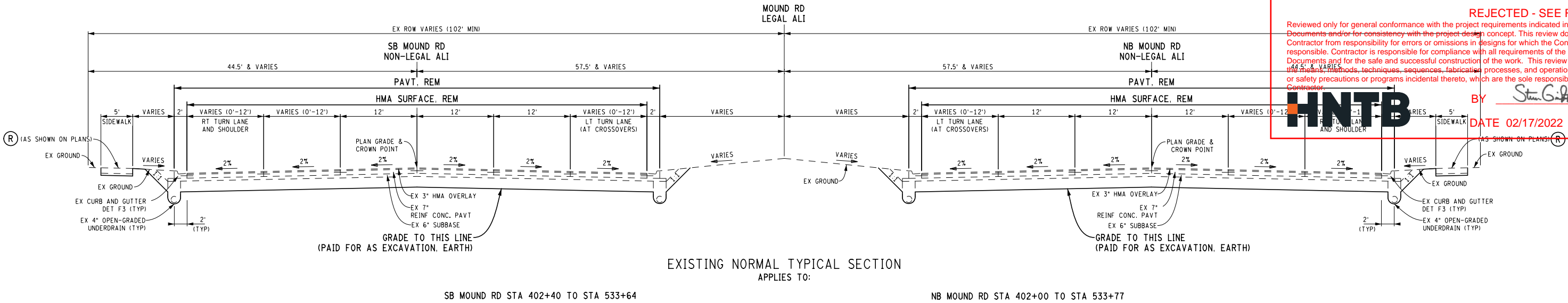
HNTB BY John Gifford
FUSE
DATE 02/17/2022

ITS / SIGNALS

- | | |
|---|--|
|  | ANTENNA |
|  | CASE SIGN (1-WAY OR 2-WAY) |
|  | CASE SIGN (4-WAY) |
|  | DEDICATED SHORT RANGE COMMUNICATIONS |
|  | CONTROLLER CABINET - POLE MOUNTED |
|  | CONTROL EMERGENCY PREEMPTION OPTICOM |
|  | DILEMMA ZONE DETECTION |
|  | GLOBAL POSITIONING SYSTEM MODULE |
|  | GUY ANCHOR |
|  | PEDESTRIAN PEDESTAL |
|  | PEDESTRIAN PUSHBUTTON |
|  | POLE MAST ARM (LENGTH VARIES) - EXISTING |
|  | POLE MAST ARM (LENGTH VARIES) |
|  | POLE STRAIN |
|  | ROAD SIGN W/ FLASHING SIGN OPTICAL (1-WAY) |
|  | SIGNAL HANDHOLE - POLYMER CONCRETE |
|  | SIGNAL HANDHOLE - 2 FOOT ROUND |
|  | SIGNAL HANDHOLE - 3 FOOT ROUND |
|  | SIGNAL HANDHOLE - 2 FOOT SQUARE |
|  | SIGNAL HANDHOLE - 4 FOOT SQUARE |
|  | SIGNAL HEAD PEDESTRIAN - EXISTING |
|  | SIGNAL HEAD PEDESTRIAN 1-WAY |
|  | SIGNAL HEAD PEDESTRIAN 2-WAY |
|  | SIGNAL HEAD VEHICLE 1-WAY - EXISTING |
|  | SIGNAL HEAD VEHICLE 2-WAY - EXISTING |
|  | SIGNAL HEAD VEHICLE 3-WAY - EXISTING |
|  | SIGNAL HEAD VEHICLE 4-WAY - EXISTING |
|  | SIGNAL HEAD VEHICLE 1-WAY |
|  | SIGNAL HEAD VEHICLE 2-WAY |
|  | SIGNAL HEAD VEHICLE 3-WAY |
|  | SIGNAL HEAD VEHICLE 4-WAY |
|  | SIGNAL HEAD VEHICLE BAGGED |
|  | SIGNAL HEAD VEHICLE PROGRAMMABLE |
|  | VEHICLE DETECTION CAMERA |
|  | VEHICLE DETECTION CAMERA - HEMISPHERICAL |
|  | VEHICLE DETECTION LOOP |
|  | VEHICLE DETECTION - RADAR |
|  | WIRELESS VEHICLE DETECTION RADIO RECEIVER |
|  | WIRELESS VEHICLE DETECTION RADIO REPEATER |
|  | WIRELESS VEHICLE DETECTION SENSOR - EXISTING |
|  | WIRELESS VEHICLE DETECTION SENSOR |

- NOTE:**
EXISTING ITEMS ARE REPRESENTED BY THIN LINE WEIGHTS.
PROPOSED ITEMS ARE REPRESENTED BY HEAVIER LINE WEIGHTS.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										Department of Roads	NO SCALE		DATE: 01/31/22	CS: INFR50000	LEGEND		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION						DESIGN UNIT: XXX	JN: 207178A		MOUND LEGEND	SECT 1	
																3	6	
												FILE: 207178_Legend.dgn	TSC: MACOMB					



- ① VARIES 0' 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

Innovate Mound Project

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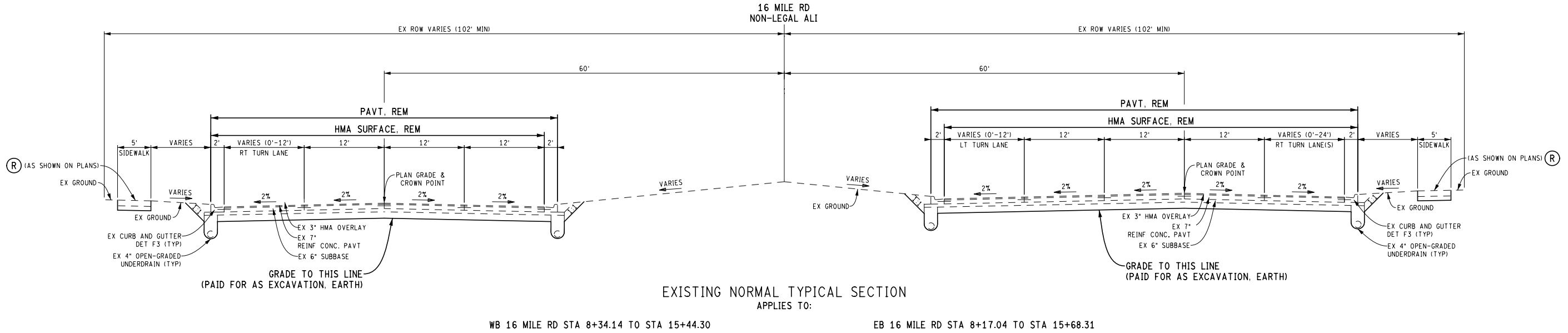
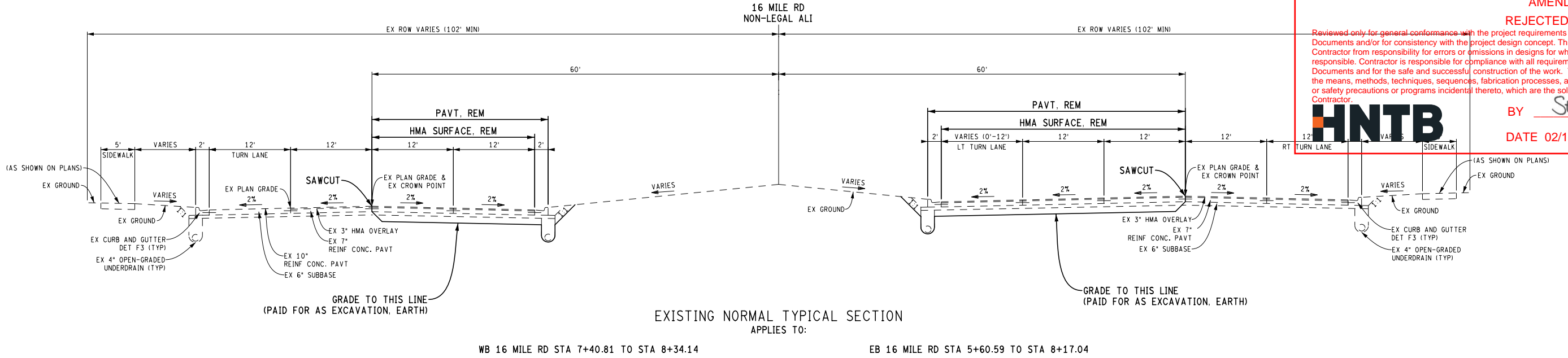
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BY 

DATE 02/17/2022



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								TYPICAL CROSS SECTIONS		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			MOUND TYP	SECT
										2	9

AECOM

MACOMB COUNTY

Department of Roads

0 16
HORZ. (FT)

FILE: 207178_Ex_Typ_16Mile.dgn

DATE: 01/31/22
DESIGN UNIT: XXX
TSC: MACOMB

CS: INFR50000
JN: 207178A

Innovate Mound Project

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PROPOSED NORMAL TYPICAL SECTION
APPLIES TO:
NB MOUND RD STA 402+00.00 TO POE STA 639+85.00
(GAP OUT AT STRUCTURE #6244 STA 544+90.38 TO STA 545+81.85)

PROPOSED HALF TYPICAL CROSSOVER SECTION
APPLIES TO:
(AS SHOWN ON PLANS)

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

PROPOSED HALF TYPICAL CURB SECTION
APPLIES TO:
(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)

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:)								TYPICAL CROSS SECTIONS				DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION					MOUND TYP	SECT
												3	10

AECOM

 Department of Roads

0

HORZ. (FT)

12

DATE: 01/31/22

DESIGN UNIT: XXX

TSC: MACOMB

CS: INFR50000

JN: 207178A

Innovate Mound Project

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PROPOSED NORMAL TYPICAL SECTION

APPLIES TO:

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

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

① SLOPE RESTORATION REQUIRED
IN DISTURBED AREAS ONLY

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								<div>AECOM</div>	<div> Department of Roads</div>	<div>0<div></div>12</div> <div>HORZ. (FT)</div>	DATE: 01/31/22	DESIGN UNIT: XXX	CS: INFR50000	JN: 207178A	TYPICAL CROSS SECTIONS	DRAWING	SHEET					
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION															
FILE: 207178_Pr_Typ_Mound.dgn											TSC: MACOMB											
																MOUND TYP 4	SECT 1 11					

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SB MOUND RD
NON-LEGAL ALI
EX 204' ROW

8' SIDEWALK
(AS SHOWN ON PLANS)

SIDEWALK, CONC. 4 INCH

VARIES

2.67'

12' LANE

12' LANE

12' LANE

12' LANE

2.67'

1.5%

VARIES

2%

2%

2%

2%

2%

VARIES

1.5' (TYP)

1' (TYP)

SUBBASE, CIP

EMBANKMENT, CIP (TYP)

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

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

CONC PAVT, NONREINF. 11 INCH, HIGH PERFORMANCE

CP & PG

OPEN-GRADED DR CSE, 16 INCH

GEOTEXTILE, SEPARATOR

SLOPE RESTORATION, TYPE - (TYP) ①

PROPOSED NORMAL TYPICAL SECTION

APPLIES TO:

SB MOUND RD STA 402+40.00 TO STA 639+70.00
(GAP OUT AT STRUCTURE #6245 STA 545+31.14 TO STA 546+22.61)

8' SIDEWALK
(AS SHOWN ON PLANS)

SIDEWALK, CONC. 4 INCH

VARIES

2.67'

VARIES (0'-12')

RT TURN LANE

1.5%

VARIES

2%

2%

2%

2%

SUBBASE, CIP

EMBANKMENT, CIP

CURB AND GUTTER, CONC. DET B1, MODIFIED

UNDERDRAIN, PIPE, OPEN-GRADED, 6 INCH

CONC PAVT, NONREINF. 11 INCH, HIGH PERFORMANCE

OPEN-GRADED DR CSE, 16 INCH

GEOTEXTILE, SEPARATOR

PROPOSED HALF TYPICAL TURN LANE SECTION

APPLIES TO:

(AS SHOWN ON PLANS)

VARIES (0'-12')

2.67'

LT TURN LANE (AT CROSSOVERS)

CONC PAVT, NONREINF. 11 INCH, HIGH PERFORMANCE

CURB AND GUTTER, CONC. DET B1, MODIFIED

VARIES

EMBANKMENT, CIP

2%

2%

2%

2%

1.5'

1'

OPEN-GRADED DR CSE, 16 INCH

GEOTEXTILE, SEPARATOR

UNDERDRAIN, PIPE, OPEN-GRADED, 6 INCH

PROPOSED HALF TYPICAL CROSSOVER SECTION

APPLIES TO:

(AS SHOWN ON PLANS)

8' SIDEWALK
(AS SHOWN ON PLANS)

SIDEWALK, CONC. 4 INCH

VARIES

1.5'

1.5%

VARIES

SUBBASE, CIP

EMBANKMENT, CIP

CURB AND GUTTER, CONC. DET F1, MODIFIED

UNDERDRAIN, PIPE, OPEN-GRADED, 6 INCH

PROPOSED HALF TYPICAL CURB SECTION

APPLIES TO:

(AS SHOWN ON PLANS)

VARIES (0'-12')

VARIES (0'-12')

2.67'

LT TURN LANE

LT TURN LANE

CONC PAVT, NONREINF. 11 INCH, HIGH PERFORMANCE

CURB AND GUTTER, CONC. DET B1, MODIFIED

VARIES

EMBANKMENT, CIP

2%

2%

2%

2%

1.5'

1'

OPEN-GRADED DR CSE, 16 INCH

GEOTEXTILE, SEPARATOR

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

PROPOSED HALF TYPICAL CROSSOVER SECTION

APPLIES TO:

(AS SHOWN ON PLANS)

8' SIDEWALK
(AS SHOWN ON PLANS)

FENCE CHAIN LINE
(AS SHOWN ON PLANS)

SIDEWALK, CONC. 4 INCH

VARIES

2.5'

10'

1.5%

VARIES

SUBBASE, CIP

EMBANKMENT, CIP

CURB AND GUTTER, CONC. DET D1, MODIFIED

UNDERDRAIN, PIPE, OPEN-GRADED, 6 INCH

PROP GUARDRAIL
(AS SHOWN ON PLANS)

②

PROPOSED HALF TYPICAL GUARDRAIL SECTION

APPLIES TO:

(AS SHOWN ON PLANS)

2.5'

10'

2.67'

PROP GUARDRAIL
(AS SHOWN ON PLANS)

VARIES

CURB AND GUTTER, CONC. DET D1, MODIFIED

EMBANKMENT, CIP

UNDERDRAIN, PIPE, OPEN-GRADED, 6 INCH

1'

PROPOSED HALF TYPICAL GUARDRAIL SECTION

APPLIES TO:


(AS SHOWN ON PLANS)

① SLOPE RESTORATION REQUIRED
IN DISTURBED AREAS ONLY

② SEE SIDEWALK GRADING PLAN

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)									TYPICAL CROSS SECTIONS		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION				MOUND TYP	SECT 1
											5	12

AECOM

 Department of Roads

0

HORZ. (FT)

12

DATE: 01/31/22

DESIGN UNIT: XXX

TSC: MACOMB

CS: INFR50000

JN: 207178A

Innovate Mound Project

APPROVED ☐

APPROVED AS NOTED ☐

ACCEPTED ☒


ACCEPTED AS NOTED ☐

AMEND AND RESUBMIT ☐

REJECTED - SEE REMARKS ☐

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HNTB

BY 

DATE 02/17/2022

The diagram shows a cross-section of a road with the following components from left to right: an 8' sidewalk (as shown on plans), a 1.5% slope, a subbase of CIP, an embankment of CIP (TYP), a curb and gutter of concrete (DET B1, modified TYP), an underdrain pipe (open-graded, 6 inch TYP), and a 2.67' wide area. This is followed by a 12' lane with a 2% slope, a 12' lane with a 2% slope, a 12' lane with a 2% slope, and another 12' lane with a 2% slope. A 2.67' wide area follows, leading to a slope restoration (TYP) labeled with a circled 1. The road surface is composed of 11 inch high performance concrete pavement (nonreinforced). A geotextile separator is located below the pavement. The existing 204' right-of-way (ROW) is indicated at the top. A center point and grade (CP & PG) is marked at the center of the road.

PROPOSED NORMAL TYPICAL SECTION
APPLIES TO:
SB MOUND RD STA 639+70.00 TO STA 642+55.63

② VARIES 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

The diagram shows a cross-section of a road with the following components from left to right: a 2.67' wide area, a 12' lane with a 2% slope, a 12' lane with a 2% slope, and a 12' lane with a 2% slope. A 2.67' wide area follows, leading to a slope restoration (TYP) labeled with a circled 1. The road surface is composed of 11 inch high performance concrete pavement (nonreinforced). A geotextile separator is located below the pavement. The existing 204' right-of-way (ROW) is indicated at the top. A center point and grade (CP & PG) is marked at the center of the road.

PROPOSED HALF TYPICAL CROSSOVER SECTION
APPLIES TO:
(AS SHOWN ON PLANS)

① SLOPE RESTORATION REQUIRED
IN DISTURBED AREAS ONLY

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								<div>AECOM</div>	<div>Department of Roads</div>	<div>0 12 HORZ. (FT)</div>	<div>FILE: 207178_Pr_Typ_Mound.dgn</div>	<div>DATE: 01/31/22 DESIGN UNIT: XXX TSC: MACOMB</div>	<div>CS: INFR50000 JN: 207178A</div>	TYPICAL CROSS SECTIONS		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION									MOUND TYP 6	SECT 1 13

Innovate Mound Project

APPROVED ☐

APPROVED AS NOTED ☐

ACCEPTED ☒

ACCEPTED AS NOTED ☐

AMEND AND RESUBMIT ☐

REJECTED - SEE REMARKS ☐

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HNTB

BY 

DATE 02/17/2022

NB MOUND RD
NON-LEGAL ALI
EX 204' ROW

2.2' SHLD
12' LANE
12' LANE
12' LANE
12' LANE

CONC PAVT, BRIDGE APPROACH, REINF, HIGH PERFORMANCE

CP & PG
2% & VAR
2% & VAR
2% & VAR
2% & VAR

VARIES

① SLOPE RESTORATION, TYPE _ (TYP)

2% (TYP)
1' (TYP)
1.5' (TYP)

OPEN-GRADED DR CSE, 16 INCH
GEOTEXTILE, SEPARATOR

EMBANKMENT, CIP (TYP)
CURB AND GUTTER, CONC, BRIDGE APPROACH (TYP)
UNDERDRAIN, PIPE, OPEN-GRADED, 6 INCH (TYP)

SLOPE RESTORATION, TYPE _ (TYP) ①

PROPOSED BRIDGE APPROACH TYPICAL SECTION
APPLIES TO:
NB MOUND STA 544+90.38 TO STA 545+81.85 (GAP OUT STRUCTURE #6244)

SB MOUND RD
NON-LEGAL ALI
EX 204' ROW

8' SIDEWALK (AS SHOWN ON PLANS)
FENCE, CHAIN LINK (AS SHOWN ON PLANS)

3.5'
12' LANE
12' LANE
12' LANE
12' LANE

CONC PAVT, BRIDGE APPROACH, REINF, HIGH PERFORMANCE

CP & PG
2% & VAR
2% & VAR
2% & VAR
2% & VAR

VARIES

① SLOPE RESTORATION, TYPE _ (TYP)

1.96' SHLD

2% (TYP)
1' (TYP)
1.5' (TYP)

OPEN-GRADED DR CSE, 16 INCH
GEOTEXTILE, SEPARATOR

EMBANKMENT, CIP (TYP)
CURB AND GUTTER, CONC, BRIDGE APPROACH (TYP)
UNDERDRAIN, PIPE, OPEN-GRADED, 6 INCH (TYP)

SUBBASE, CIP
SIDEWALK, CONC, 4 INCH

PROPOSED BRIDGE APPROACH TYPICAL SECTION
APPLIES TO:
SB MOUND STA 545+31.14 TO STA 546+22.61 (GAP OUT STRUCTURE #6245)

① SLOPE RESTORATION REQUIRED IN DISTURBED AREAS ONLY

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								<div><div>AECOM</div><div> Department of Roads</div></div>	0 12 HORZ. (FT)		FILE: 207178_Pr_Typ_Mound.dgn	DATE: 01/31/22 DESIGN UNIT: XXX TSC: MACOMB	CS: INFR50000 JN: 207178A	TYPICAL CROSS SECTIONS		DRAWING	SHEET						
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION																
															MOUND TYP 7								
															SECT 1 14								

Innovate Mound Project

APPROVED ☐

APPROVED AS NOTED ☐

ACCEPTED ☒


ACCEPTED AS NOTED ☐

AMEND AND RESUBMIT ☐

REJECTED - SEE REMARKS ☐



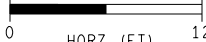
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BY 

DATE 02/17/2022

① SLOPE RESTORATION REQUIRED
IN DISTURBED AREAS ONLY

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										Department of Roads		FILE: 207178_Pr_Typ_16Mile.dgn	DATE: 01/31/22 DESIGN UNIT: XXX TSC: MACOMB	CS: INFR50000 JN: 207178A	TYPICAL CROSS SECTIONS		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION										16 MILE TYP 8	SECT 1
																		15

Innovate Mound Project

APPROVED ☐

APPROVED AS NOTED ☐

ACCEPTED ☒

ACCEPTED AS NOTED ☐

AMEND AND RESUBMIT ☐

REJECTED - SEE REMARKS ☐

REVIEW

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HNTB

BY *Stu G. [Signature]*

DATE 02/17/2022

① SLOPE RESTORATION REQUIRED IN DISTURBED AREAS ONLY

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								<div><div>AECOM</div><div><div>Department of Roads</div></div></div>		<div>0<div>HORZ. (FT)</div>12</div>	
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| NO. | DATE | AUTH | DESCRIPTION | NO. | DATE | AUTH | DESCRIPTION |
| | | | | | | | |

DATE: 01/31/22	CS: INFR50000	TYPICAL CROSS SECTIONS	DRAWING	SHEET
DESIGN UNIT: XXX	JN: 207178A			
FILE: 207178_Pr_Typ_16Mile.dgn	TSC: MACOMB	16 MILE TYP	9	16

APPROVED AS NOTED ☐

AS NOTED ☐

ACCEPTED AS NOTED

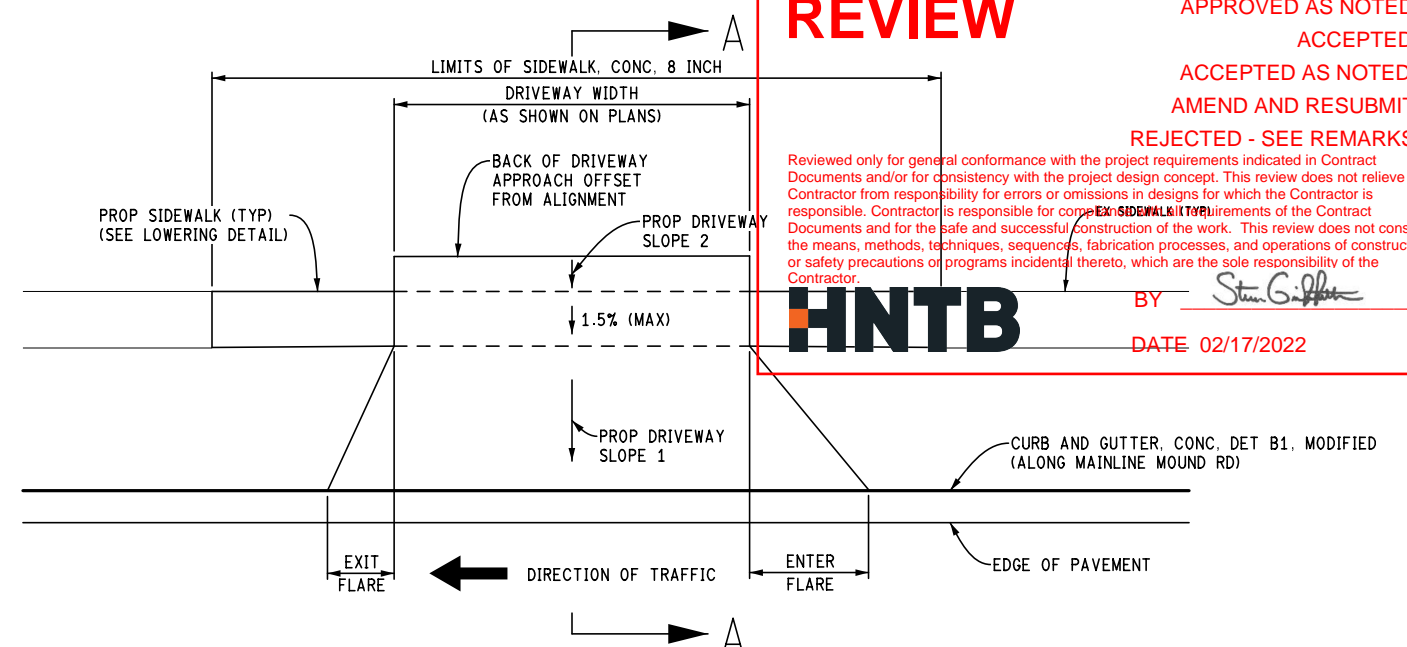
AMEND AND RESUBMIT

REJECTED - SEE REMARKS ☐

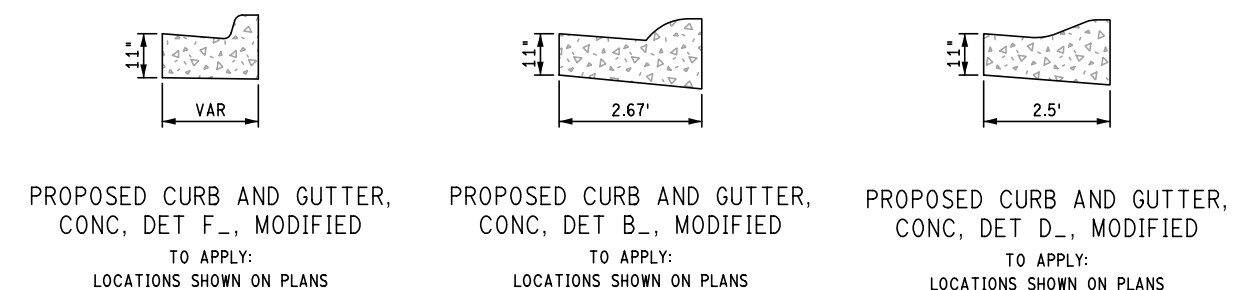
Contractor.
HNTB

BY Steven Giffith

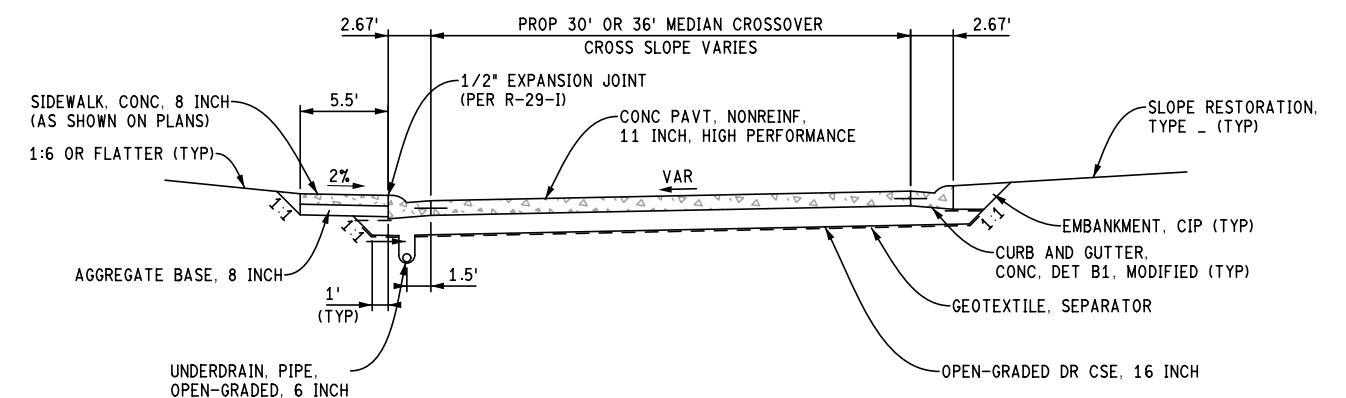
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Category 1	Item 2	Value 2
Category 1	Item 3	Value 3
Category 1	Item 4	Value 4
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Category 1	Item 6	Value 6
Category 1	Item 7	Value 7
Category 1	Item 8	Value 8
Category 1	Item 9	Value 9
Category 1	Item 10	Value 10
Category 1	Item 11	Value 11
Category 1	Item 12	Value 12
Category 1	Item 13	Value 13
Category 1	Item 14	Value 14
Category 1	Item 15	Value 15
Category 1	Item 16	Value 16
Category 1	Item 17	Value 17
Category 1	Item 18	Value 18
Category 1	Item 19	Value 19
Category 1	Item 20	Value 20
Category 1	Item 21	Value 21
Category 1	Item 22	Value 22
Category 1	Item 23	Value 23
Category 1	Item 24	Value 24
Category 1	Item 25	Value 25
Category 1	Item 26	Value 26
Category 1	Item 27	Value 27
Category 1	Item 28	Value 28
Category 1	Item 29	Value 29
Category 1	Item 30	Value 30
Category 1	Item 31	Value 31
Category 1	Item 32	Value 32
Category 1	Item 33	Value 33
Category 1	Item 34	Value 34
Category 1	Item 35	Value 35
Category 1	Item 36	Value 36
Category 1	Item 37	Value 37
Category 1	Item 38	Value 38
Category 1	Item 39	Value 39
Category 1	Item 40	Value 40
Category 1	Item 41	Value 41
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Category 1	Item 66	Value 66
Category 1	Item 67	Value 67
Category 1	Item 68	Value 68
Category 1	Item 69	Value 69
Category 1	Item 70	Value 70
Category 1	Item 71	Value 71
Category 1	Item 72	Value 72
Category 1	Item 73	Value 73
Category 1	Item 74	Value 74
Category 1	Item 75	Value 75
Category 1	Item 76	Value 76
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Category 1	Item 78	Value 78
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Category 1	Item 80	Value 80
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Category 1	Item 82	Value 82
Category 1	Item 83	Value 83
Category 1	Item 84	Value 84
Category 1	Item 85	Value 85
Category 1	Item 86	Value 86
Category 1	Item 87	Value 87
Category 1	Item 88	Value 88
Category 1	Item 89	Value 89
Category 1	Item 90	Value 90
Category 1	Item 91	Value 91
Category 1	Item 92	Value 92
Category 1	Item 93	Value 93
Category 1	Item 94	Value 94
Category 1	Item 95	Value 95
Category 1	Item 96	Value 96
Category 1	Item 97	Value 97
Category 1	Item 98	Value 98
Category 1	Item 99	Value 99
Category 1	Item 100	Value 100



PROPOSED DRIVEWAY DETAIL L PLAN VIEW SECTION



PROPOSED SIDEWALK PROFILE LOWERING DETAIL



PROPOSED MEDIAN CROSSOVER SECTION

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



Department of Roads

NO SCALE

FILE: 207178_N_Mound_DET_01.dgn

DATE: 01/31/22

DESIGN UNIT: XXX

TSC: MACOMB

CS: INFR50000

IN: 207178A

MISCELLANEOUS DETAILS

DRAWING	SHEET
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MOUND	SECT 1
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MSCDET	17
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Innovate Mound Project

APPROVED ☐

APPROVED AS NOTED ☐

ACCEPTED ☒


ACCEPTED AS NOTED ☐

AMEND AND RESUBMIT ☐

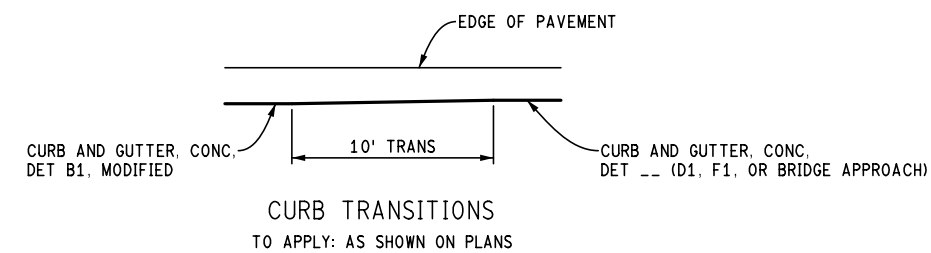
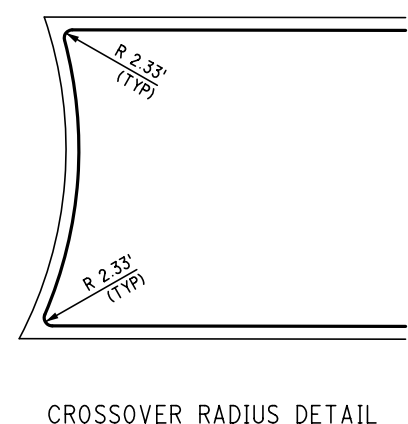
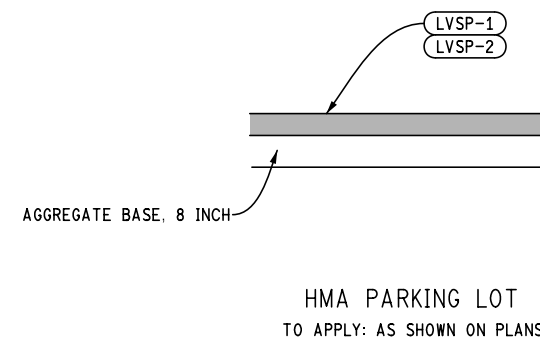
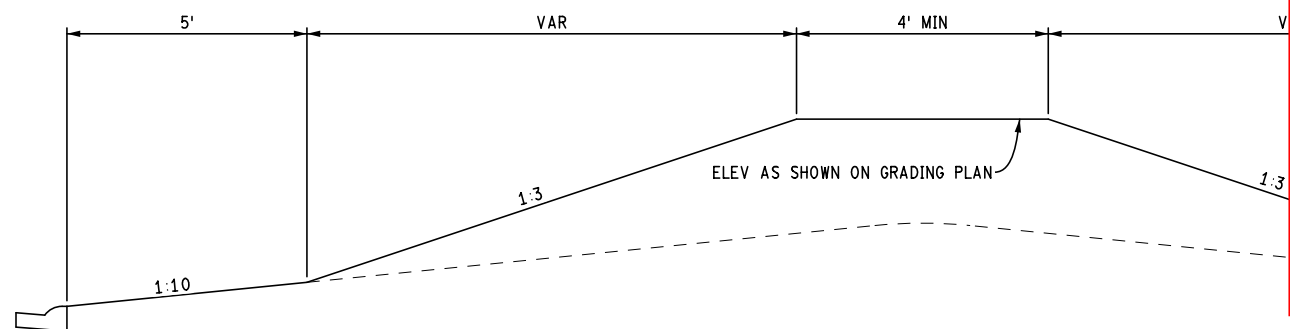
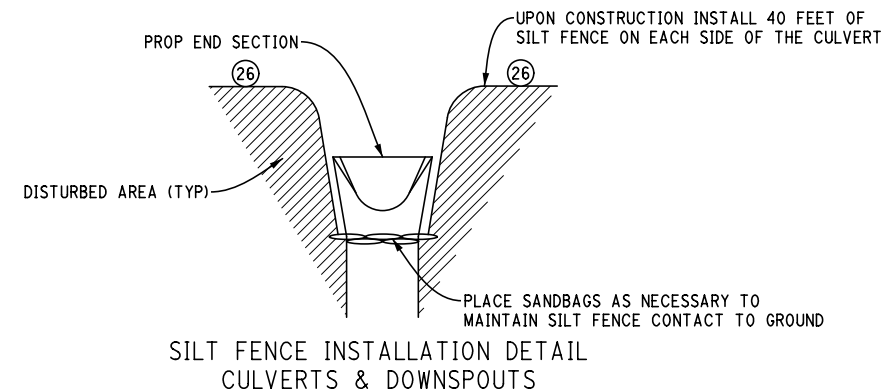
REJECTED - SEE REMARKS ☐

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HNTB

BY 

DATE 02/17/2022



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

Innovate Mound Project

APPROVED ☐

APPROVED AS NOTED ☐

ACCEPTED ☒

ACCEPTED AS NOTED ☐

AMEND AND RESUBMIT ☐

REJECTED - SEE REMARKS ☐

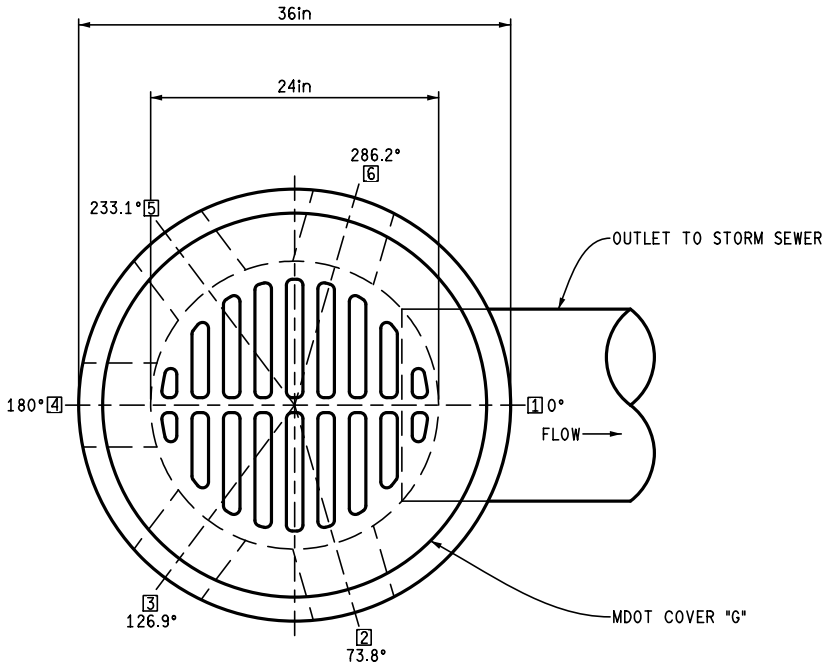
REVIEW

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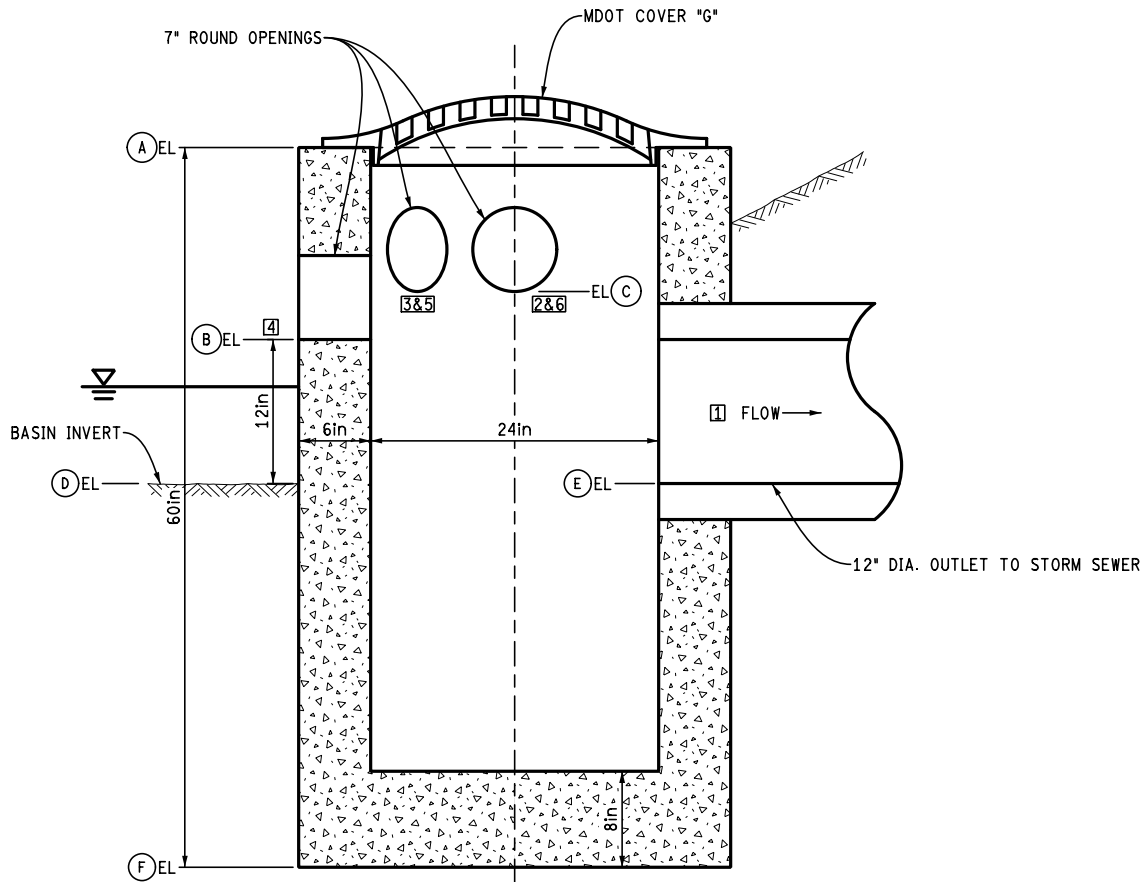
HNTB

BY 

DATE 02/17/2022



PLAN VIEW (TYPICAL)



SECTION – BASIN RISER

Riser Structure ID	Elevations						Outlet to MH
	A	B	C	D	E	F	
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

APPROVED AS NOTED ☐

ACCEPTED 

ACCEPTED AS NOTED

AMEND AND RESUBMIT ☐

REJECTED - SEE REMARKS ☐

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

STATION: 8+77.93 ONLY - OFFSET 92'21" TO THE LEFT WITH ALL MOUND RD LEGAL AL
COORDINATES: N=373045.680 E=1347906.645 DESIGN ELEV=615.786
SDN=0.012 SDE=0.000
COMBINED SCALE FACTOR: 0.999990348
WITNESSES: _____

1. EAST 00.00' ALK. TO CURB BY John Gifford
 2. N12°W 00.00' TO CENTER OF MANHOLE
 3. WEST 33.20' EAST SIDE OF EDGE OF SIDEWALK DATE: 02/17/2022
 4. N28°E 21.90' SOUTHWEST CORNER OF CURB INLET

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

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:

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

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

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

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
TREE
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
2. EAST 15.20' BACK EDGE OF CURB
3. S08°E 30.50' TOP CENTER OF HYDRANT
4. S24°E 61.20' NORTHWEST CORNER OF CURB INLET

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

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

STATION: 232+55.83 OFFSET: 13.33 ALI: MOUND RD LEGAL ALI
COORDINATES: N=387316.263 E=13478461.128 EL=621.171
SDN=0.011 SDE=0.010 SDZ=0.006
COMBINED SCALE FACTOR: 0.99989908
WITNESSES:
1. S30°W 29.00' SET NAIL AND TAG IN NORTHWEST SIDE OF ELM
TREE
2. N80°W 31.50' SET NAIL AND TAG IN NORTH SIDE OF ELM TREE
3. N26°W 26.20' SET NAIL AND TAG IN NORTHEAST SIDE OF ELM
TREE
4. EAST 18.00' BACK EDGE OF CURB

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

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 STOBBER 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

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



STATION: 150+76.90 OFFSET: -155.43 ALI: MOUND RD LEGAL ALI
COORDINATES: N=379140.523 E=13478707.855 EL=616.593
SDN=0.010 SDE=0.009 SDZ=0.002
COMBINED SCALE FACTOR: 0.99990161
WITNESSES:
1. N48°W 90.50' NORTHEAST CORNER OF BUILDING
2. N24°W 70.00' TOP CENTER OF MANHOLE
3. S10°W 103.20' BACK OF CURB
4. EAST 8.30' BACK OF CURB

DESCRIPTION: SET 5/8" X 36" REROD WITH YELLOW SSI TRAVERSE CAP ON WEST SIDE OF MOUND ROAD, JUST SOUTH OF BUILDING #31739, +/- 150' NORTH OF NORTH CURB FACE ON FILMORE AVENUE, +/- 90' SOUTH OF SOUTH CURB FACE OF CONCRETE DRIVEWAY OF NATCHKO INC.,

AND +/- 4' WEST OF WEST CURB FACE ON SOUTHBOUND MOUND ROAD.
STATION: 128+94.10 OFFSET: -155.59 ALI: MOUND RD LEGAL ALI
COORDINATES: N=376958.355 E=13478806.408 EL=617.088
SDN=0.011 SDE=0.010 SDZ=0.004
COMBINED SCALE FACTOR: 0.99990223
WITNESSES:
1. N08°W 19.30' FACE OF UTILITY POLE
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

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

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										NO SCALE		DATE: 01/31/22	CS: INFR50000	SURVEY INFORMATION SHEET	DRAWING	SHEET	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION					DESIGN UNIT: XXX	JN: 207178A			MOUND SURVEY 0022	SECT 1 22
												FILE: 207178_Survey_Info_Sheet.doc	TSC: MACOMB				

SECTION CORNER: T2N-R12E / G-4

DESCRIPTION: FOUND REMONUMENTATION CAP IN BOX.

COORDINATES: N=404460.35 E=13482873.33

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

WITNESSES:

1. N64°W 66.20' PK NAIL AND TAG IN SOUTH SIDE OF LIGHT POLE

2. N71°E 58.63' PK NAIL AND TAG IN NORTH SIDE OF UTILITY POLEELMER

3. N60°E 18.23' NORTHWEST CORNER OF CURB INLET MANHOLE

4. S46°W 120.20' TO TOP CENTER NUT OF HYDRANT

SECTION CORNER: T3N-R12E / E-12

DESCRIPTION: FOUND REMONUMENTATION CAP ONE FOOT BELOW GRADE

COORDINATES: N=415588.52 E=13477072.83

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

WITNESSES:

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

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

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

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

APPROVED

APPROVED AS NOTED

ACCEPTED


ACCEPTED AS NOTED

AMEND AND RESUBMIT



REJECTED - SEE REMARKS

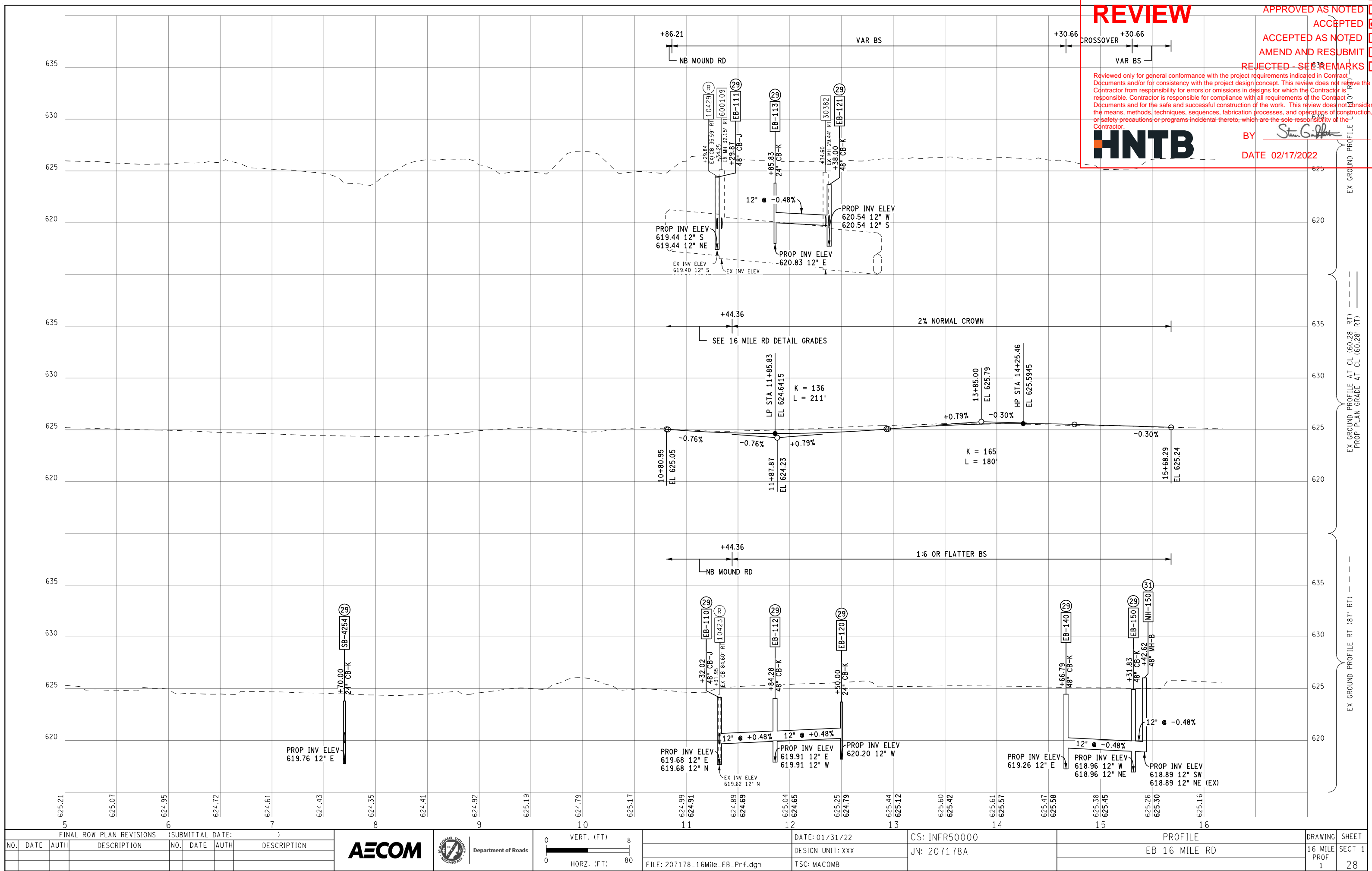
Reviewed only for general conformance with the project requirements indicated in Contract Documents and/or for consistency with the project design concept. This review does not relieve the Contractor from responsibility for errors or omissions in designs for which the Contractor is responsible. Contractor 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 Contractor.

HNTB

BY 

DATE 02/17/2022

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)									NO SCALE		DATE: 01/31/22	CS: INFR50000	SURVEY INFORMATION SHEET	DRAWING	SHEET		
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH				DESCRIPTION		DESIGN UNIT: XXX		JN: 207178A		MOUND SURVEY 0027	SECT 1 27
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APPROVED AS NOTED ☐

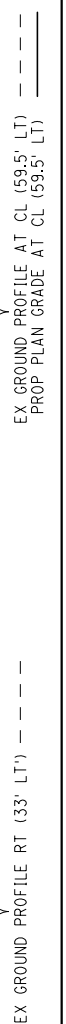
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ECTED - SEE REMARKS ☐

REJECTED - SEE REMARKS ☐

BY Steven G. Gifford OF FILE

DATE 02/17/2022



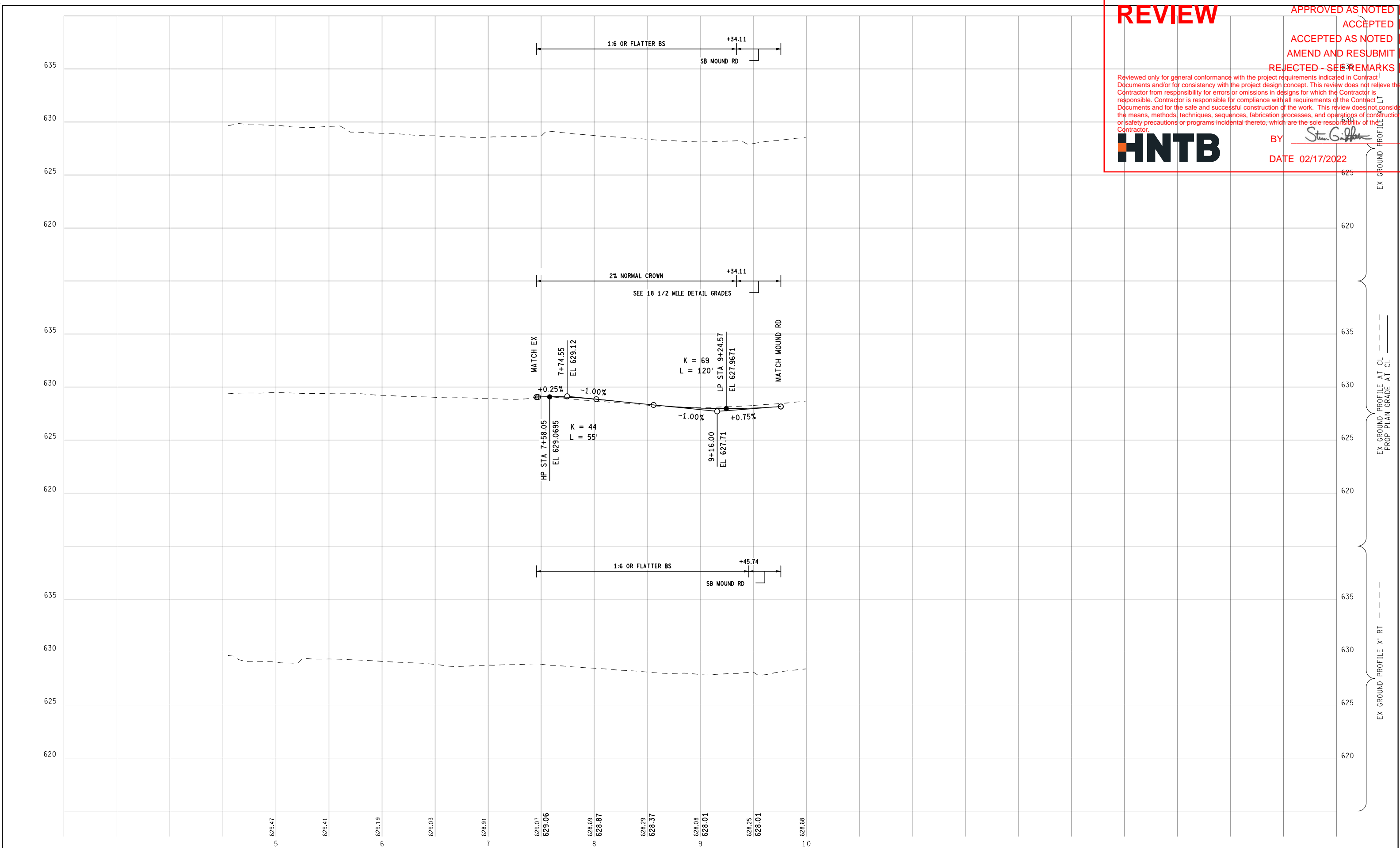
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DATE: 01/31/22
DESIGN UNIT: XXX
TSC: MACOMB

CS: INFR50000
JN: 207178A

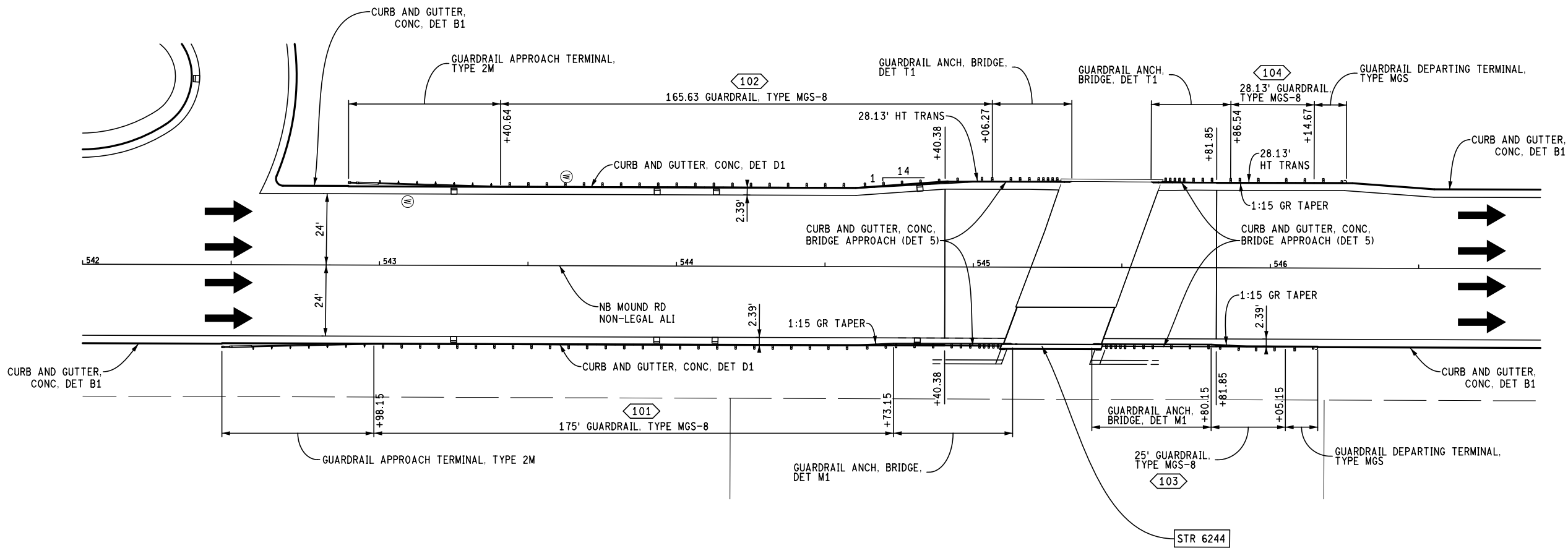
PROFILE
WB 16 MILE RD

DRAWING	SHEET
16 MILE PROF 2	SECT 1 29



FINAL ROW PLAN REVISIONS				(SUBMITTAL DATE:)				  Department of Roads			DATE: 01/31/22	CS: INFR50000	PROFILE		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION				DESIGN UNIT: xxx	JN: 207178A	18 ¹ / ₂ MILE RD		8.5 MILE	SECT 1
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NB MOUND RD



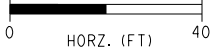
PLUM BROOK

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

AECOM



Department of Roads



FILE: 207178_N_Mound_GDT_545_01.dgn

TSC: MACOMB

DATE: 01/31/22

DESIGN UNIT: XXX

CS: INFR50000

JN: 207178A

GUARDRAIL DETAIL SHEET

DRAWING	SHEET
MOUND MSCDET 1	31

Innovate Mound Project

REVIEW

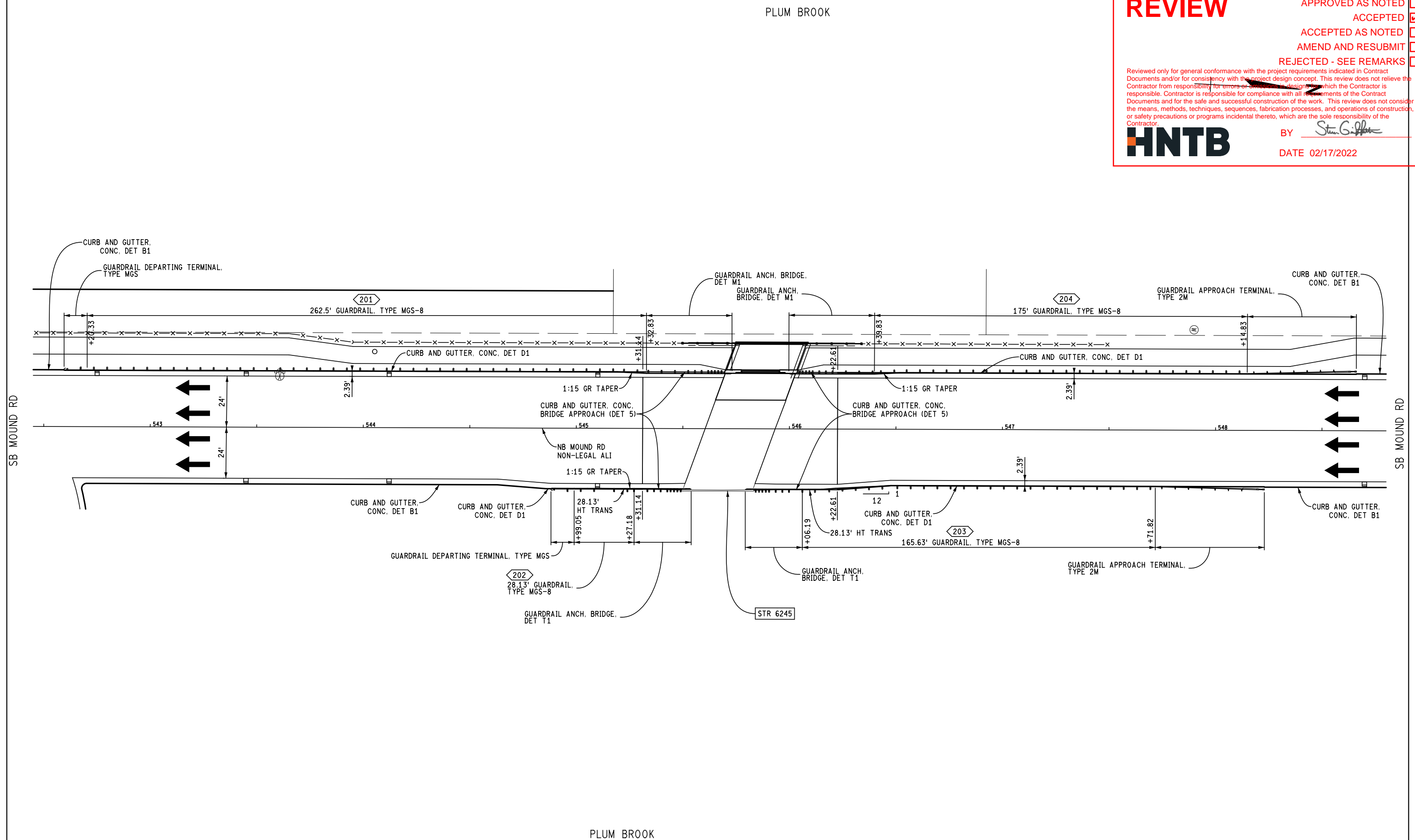
- APPROVED ☐
- APPROVED AS NOTED ☐
- ACCEPTED ☒
- ACCEPTED AS NOTED ☐
- AMEND AND RESUBMIT ☐
- REJECTED - SEE REMARKS ☐




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HNTB

BY *Stu G. [Signature]*

DATE 02/17/2022



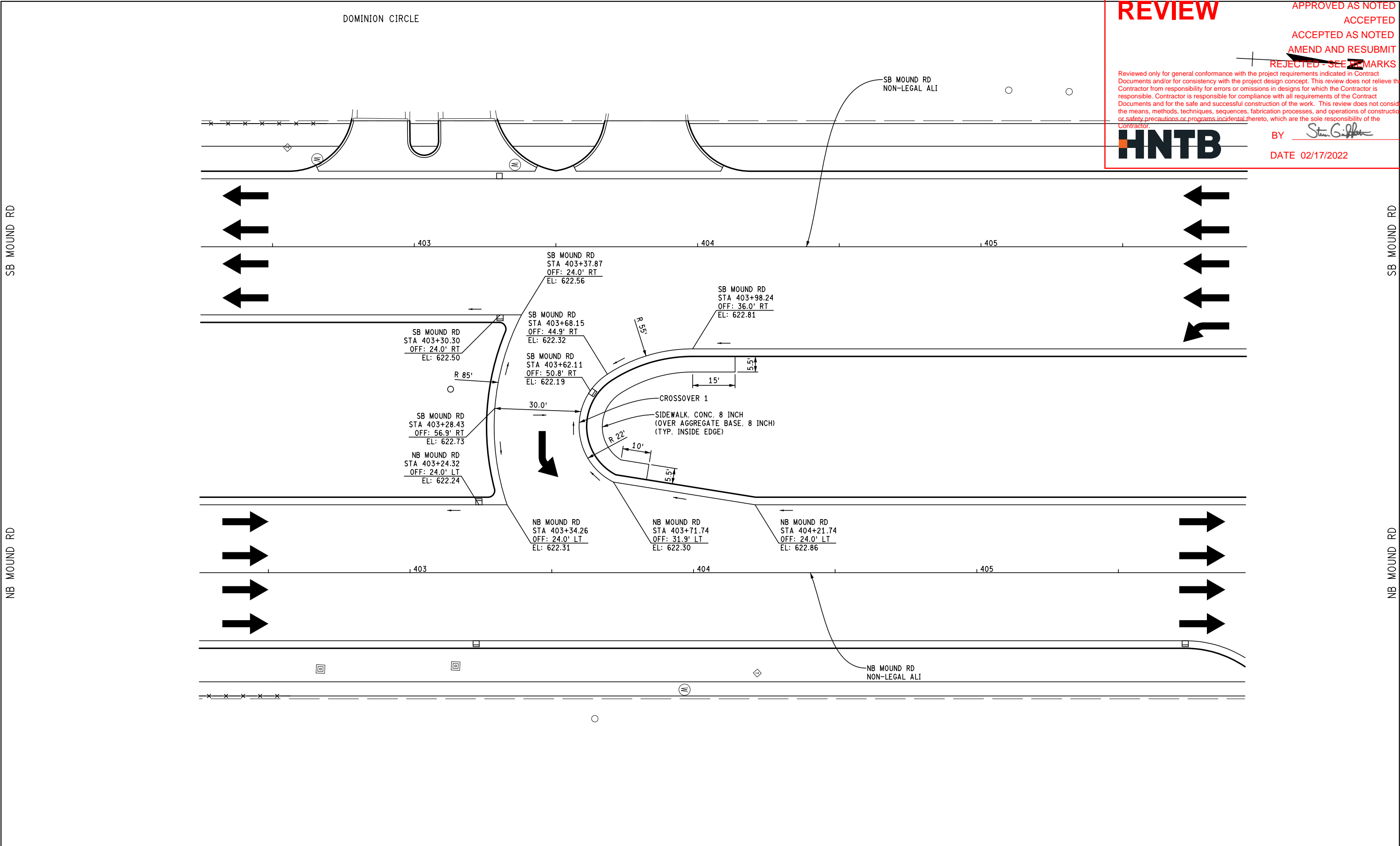
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								  Department of Roads		 0 40 HORIZ. (FT)				DATE: 01/31/22		CS: INFR50000		GUARDRAIL DETAIL SHEET		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION							DESIGN UNIT: XXX		JN: 207178A				MOUND MSCDET 2	SECT 1
												FILE: 207178_N_Mound_GDT_545_02.dgn		TSC: MACOMB							32

SB MOUND RD

NB MOUND RD

SB MOUND RD

NB MOUND RD



Innovate Mound Project

REVIEW

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BY *Stu G. [Signature]*

DATE 02/17/2022

APPROVED ☐




APPROVED AS NOTED ☐

ACCEPTED ☒

ACCEPTED AS NOTED ☐

AMEND AND RESUBMIT ☐

REJECTED - SEE REMARKS ☐

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										Department of Roads			DATE: 01/31/22	CS: INFR50000	CROSSOVER DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION						DESIGN UNIT: XXX	JN: 207178A	CROSSOVER 1		MOUND DETGRD 1	SECT 1
												FILE: 207178_N_Mound_X0_01_403.dgn	TSC: MACOMB					33

Innovate Mound Project

REVIEW

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 Contractor.

HNTB

BY *Stu G. Plante*

DATE 02/17/2022

SEABREEZE LN

SB MOUND RD

NB MOUND RD

SB MOUND RD STA 415+88.53
OFF: 24.0' RT
EL: 622.23

NB MOUND RD STA 416+51.70
OFF: 59.3' LT
EL: 622.31

CROSSOVER 2

SIDEWALK, CONC. 8 INCH
(OVER AGGREGATE BASE, 8 INCH)
(TYP, INSIDE EDGE)

15'

5.5'

10'

R 22'

R 55'

30'

SB MOUND RD STA 416+38.53
OFF: 31.9' RT
EL: 622.47

NB MOUND RD STA 416+42.12
OFF: 44.9' LT
EL: 622.21

NB MOUND RD STA 416+72.40
OFF: 24.0' LT
EL: 623.13

SB MOUND RD STA 416+76.01
OFF: 24.0' RT
EL: 622.93

SB MOUND RD STA 416+86.11
OFF: 24.0' RT
EL: 623.01

NB MOUND RD STA 416+81.84
OFF: 56.9' LT
EL: 623.03

NB MOUND RD STA 416+80.67
OFF: 24.0' LT
EL: 623.21

R 85'

SB MOUND RD STA 418+61.99
OFF: 24.0' RT
EL: 624.21

NB MOUND RD STA 418+54.01
OFF: 58.02' LT
EL: 624.41

R 85'

30'

SB MOUND RD STA 418+92.26
OFF: 44.9' RT
EL: 624.16

SB MOUND RD STA 418+83.32
OFF: 56.7' RT
EL: 624.11

CROSSOVER 3

SIDEWALK, CONC. 8 INCH
(OVER AGGREGATE BASE, 8 INCH)
(TYP, INSIDE EDGE)

15'

5.5'

10'

R 22'

R 55'

SB MOUND RD STA 419+22.35
OFF: 36.0' RT
EL: 624.25

NB MOUND RD STA 419+45.86
OFF: 24.0' LT
EL: 625.04

NB MOUND RD STA 418+58.37
OFF: 24.0' LT
EL: 624.62

NB MOUND RD STA 418+95.86
OFF: 31.9' LT
EL: 624.64

NB MOUND RD NON-LEGAL ALI

SB MOUND RD NON-LEGAL ALI

416

417

418

419

0

30

HORIZ. (FT)

DATE: 01/31/22

DESIGN UNIT: XXX

TSC: MACOMB

CS: INFR50000

JN: 207178A

CROSSOVER DETAIL GRADES

CROSSOVER 2 & 3

DRAWING

SHEET

MOUND

DETGRD

2

34

NO.

DATE

AUTH

DESCRIPTION

NO.

DATE

AUTH

DESCRIPTION

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

AECOM

Department of Roads

FILE: 207178_N_Mound_X0_02_416.dgn

Innovate Mound Project

APPROVED

APPROVED AS NOTED

ACCEPTED


ACCEPTED AS NOTED

AMEND AND RESUBMIT

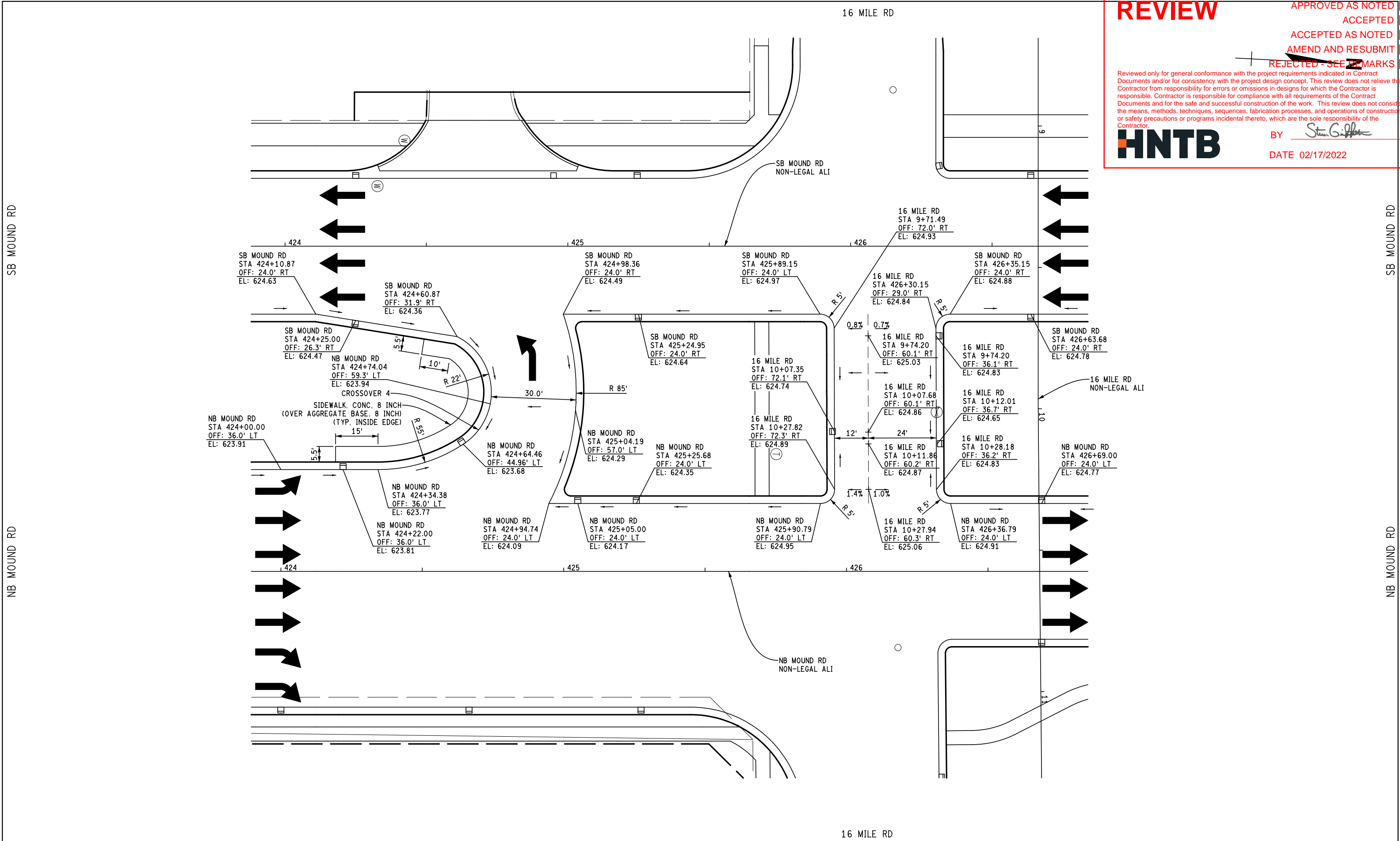
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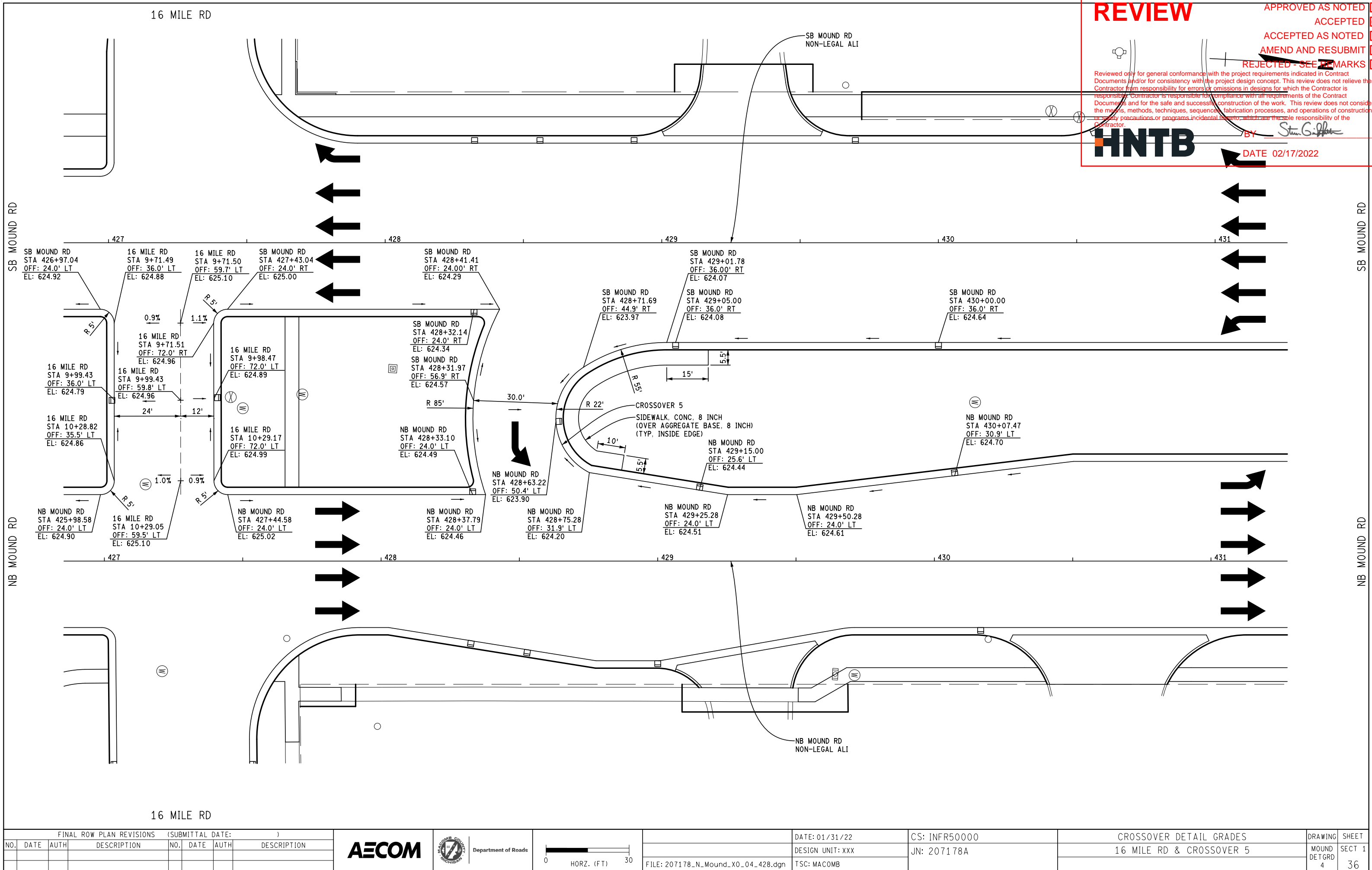
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HNTB

BY 

DATE 02/17/2022





Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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HNTB

BY *Stu G. [Signature]*

DATE 02/17/2022

PROGRESS DR

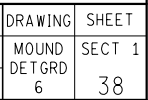
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								<div><div>AECOM</div><div><div>STATE OF CALIFORNIA</div><div>Department of Roads</div></div></div>	<div><div>0</div><div>HORZ. (FT)</div><div>30</div></div>	FILE: 207178_N_Mound_X0_05_434.dgn	DATE: 01/31/22	CS: INFR50000	CROSSOVER DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION				MOUND	SECT				
											DETGRD					
											5	37				

DESIGN UNIT: xxx

TSC: MACOMB

JN: 207178A

CROSSOVER 6 & 7

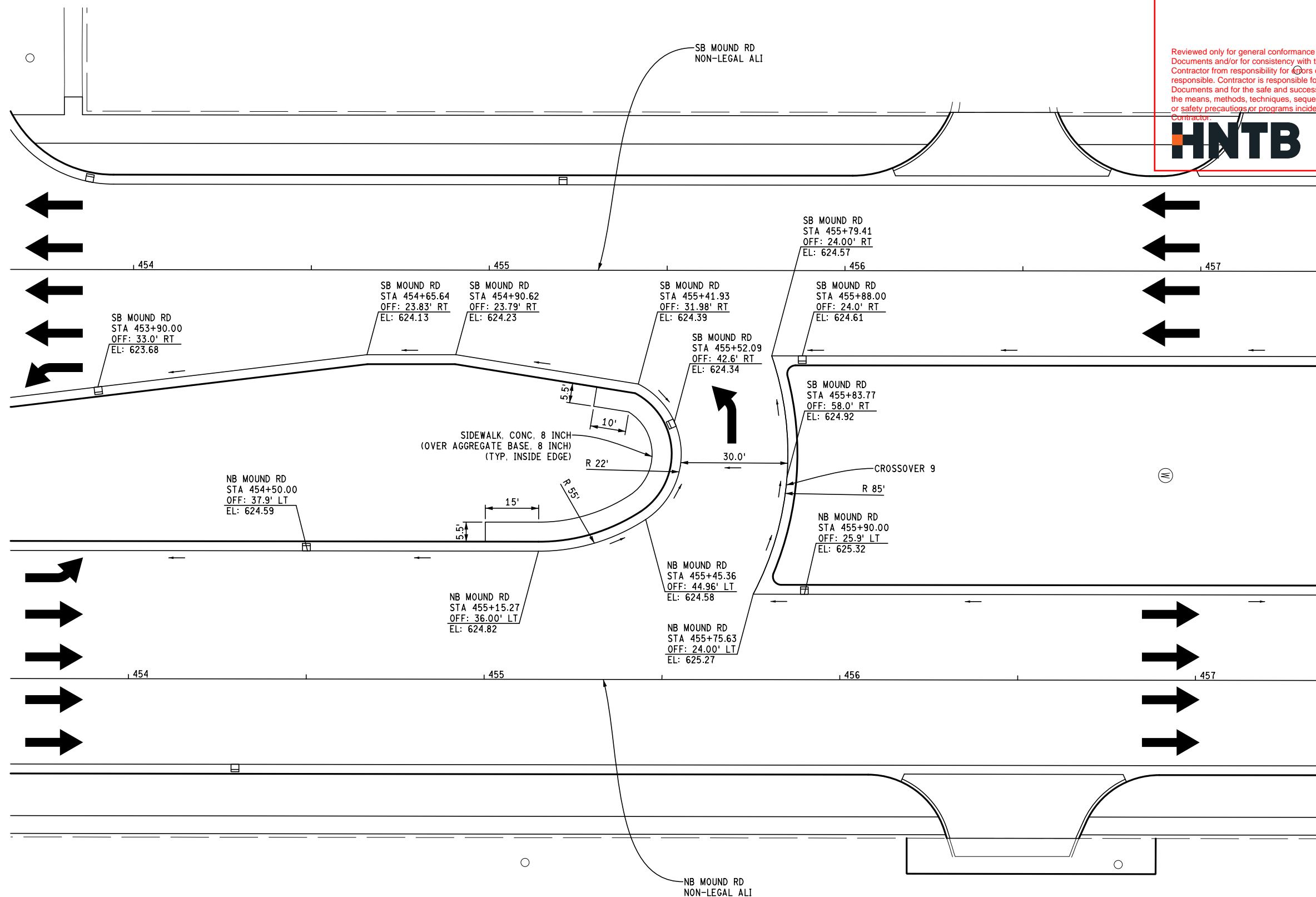


Reviewed only for general conformance with the project requirements indicated in Contract Documents and/or for consistency with the project design concept. This review does not relieve the Contractor from responsibility for errors or omissions in designs for which the Contractor is responsible. Contractor 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 Contractor.



BY Steven Giffith

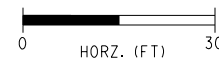
DATE 02/17/2022



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

AECOM

Department of Roads



FILE: 207178_N_Mound_X0_07_455.dgn

DATE: 01/31/22

DESIGN UNIT: XXX

h	TSC: MACOMB
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CS: INFR50000

JN: 207178A

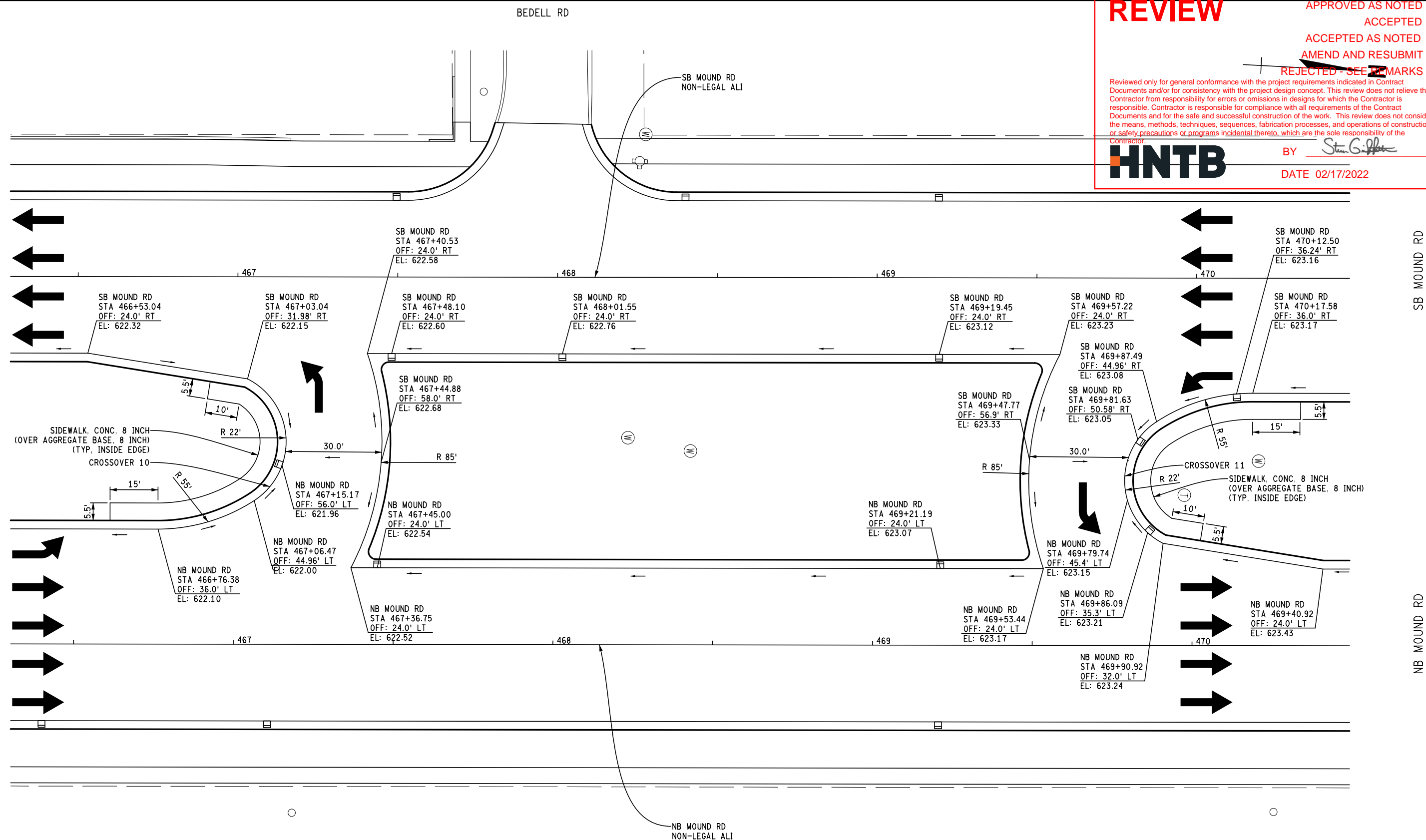
CROSSOVER DETAIL GRADES




CROSSOVER 9

DRAWING	SHEET
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MOUND	SECT 1
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DE I GRD	39
7	



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)									 Department of Roads	 0 30 HORZ. (FT)		DATE: 01/31/22	CS: INFR50000	CROSSOVER DETAIL GRADES	DRAWING	SHEET	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION					DESIGN UNIT: xxx	JN: 207178A	CROSSOVER 10 & 11	MOUND DETGRD	8	40
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APPROVED AS NOTED ☐

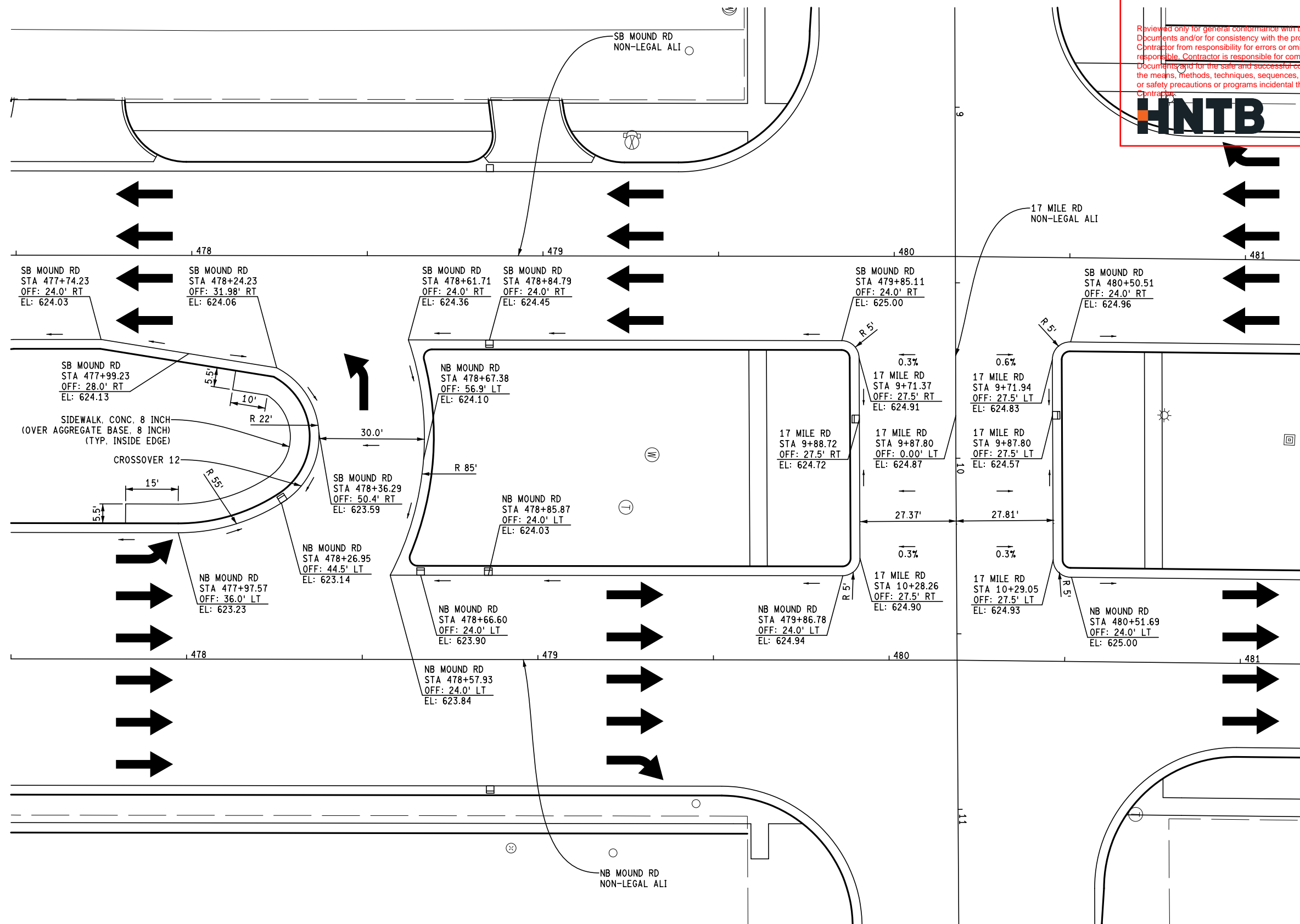
ACCEPTED ☒

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

HNTB

BY Steven G. Giffith

DATE 02/17/2022

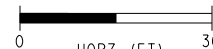


17 MILE RD

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



Department of Roads



FILE: 207178_N_Mound_X0_09_478.dgn

DATE: 01/31/22

DESIGN UNIT: XXX

TSC: MACOMB

CS: INFR50000

JN: 207178A

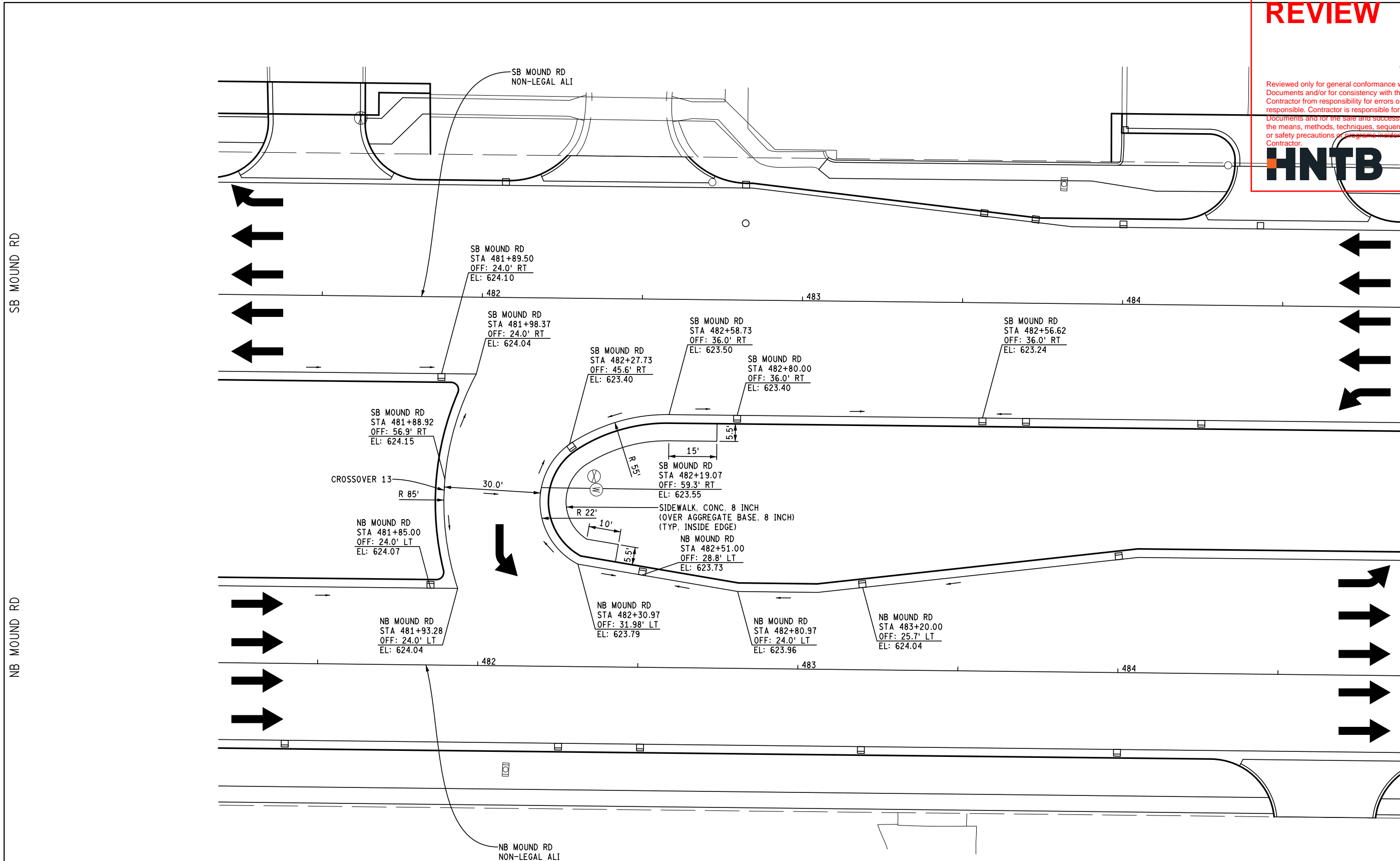
CROSSOVER DETAIL GRADES




CROSSOVER 12 & 17 MILE RD

DRAWING	SHEET
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MOUND	SECT 1
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DE TGRD	41
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FINAL ROW PLAN REVISIONS				(SUBMITTAL DATE:)				  Department of Roads	 0 30 HORZ. (FT)		DATE: 01/31/22	CS: INFR50000	CROSSOVER DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION				DESIGN UNIT: XXX	JN: 207178A	CROSSOVER 13		MOUND DET GRD 10	SECT 1
											FILE: 207178_N_Mound_X0_10_482.dgn	TSC: MACOMB				42

APPROVED AS NOTED ☐

ACCEPTED ☒

ACCEPTED AS NOTED ☐

AMEND AND RESUBMIT ☐REJECTED - SEE REMARKS ☐

HNTB

BY Steven Giffith

DATE 02/17/2022



SB MOUND RD

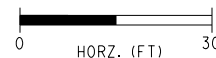
NB MOUND RD

NB MOUND RD

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



Department of Roads



FILE: 207178_N_Mound_X0_11_488.dgn

DATE: 01/31/22

DESIGN UNIT: XX)

TSC: MACOME

CS: INFR50000

JN: 207178A

CROSSOVER DETAIL GRADES

CROSSOVER 14 & 15

DRAWING	SHEET
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MOUND	SECT 1
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DE TGRD	43
11	

APPROVED AS NOTED ☐

ACCEPTED ☒

ACCEPTED AS NOTED ☐




AMEND AND RESUBMIT ☐REJECTED - SEE REMARKS ☐

HNTB

BY Steven Giffith

DATE 02/17/2022



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								  Department of Roads	 0 30 HORZ. (FT)		DATE: 01/31/22	CS: INFR50000	CROSSOVER DETAIL GRADES	DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION				DESIGN UNIT: XXX	JN: 207178A	CROSSOVER 16 & 17	MOUND DET GRD 12	SECT 1
											FILE: 207178_N_Mound.X0_12-505.dgn	TSC: MACOMB			44

Innovate Mound Project

REVIEW

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 Contractor.



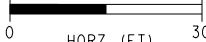
HNTB

BY 

DATE 02/17/2022

The diagram illustrates a plan view of a road crossover labeled 'Crossover 18'. It shows the intersection of Southbound Mound Road (SB MOUND RD) and Northbound Mound Road (NB MOUND RD). Stationing is provided for both directions, ranging from STA 520 to STA 523. Key features include:

- SB MOUND RD** (top half): Stationing 520 to 523. Offsets and elevations are noted at various points, such as STA 520+13.45 (OFF: 24.0' RT, EL: 628.13) and STA 521+00.94 (OFF: 24.0' RT, EL: 628.12).
- NB MOUND RD** (bottom half): Stationing 520 to 523. Offsets and elevations are noted, such as STA 520+37.17 (OFF: 36.0' LT, EL: 627.94) and STA 521+07.50 (OFF: 24.0' LT, EL: 628.39).
- Crossover 18**: A curved section with a radius of R 22' and a width of 30.0'. It includes a sidewalk (8 inch concrete over 8 inch aggregate base) and a crossover structure.
- Non-Legal Ali**: Labels for 'SB MOUND RD NON-LEGAL ALI' and 'NB MOUND RD NON-LEGAL ALI' are present.
- Dimensions**: Various dimensions are shown, including 10', 15', 30.0', and 85'.
- Arrows**: Large black arrows indicate the direction of traffic flow for both SB and NB lanes.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										Department of Roads		FILE: 207178_N_Mound_X0_13_520.dgn	DATE: 01/31/22 DESIGN UNIT: XXX TSC: MACOMB	CS: INFR50000 JN: 207178A	CROSSOVER DETAIL GRADES	DRAWING	SHEET
															CROSSOVER 18	MOUND DETGRD	SECT 1
																13	45

Innovate Mound Project

APPROVED ☐

APPROVED AS NOTED ☐

ACCEPTED ☒


ACCEPTED AS NOTED ☐

AMEND AND RESUBMIT ☐

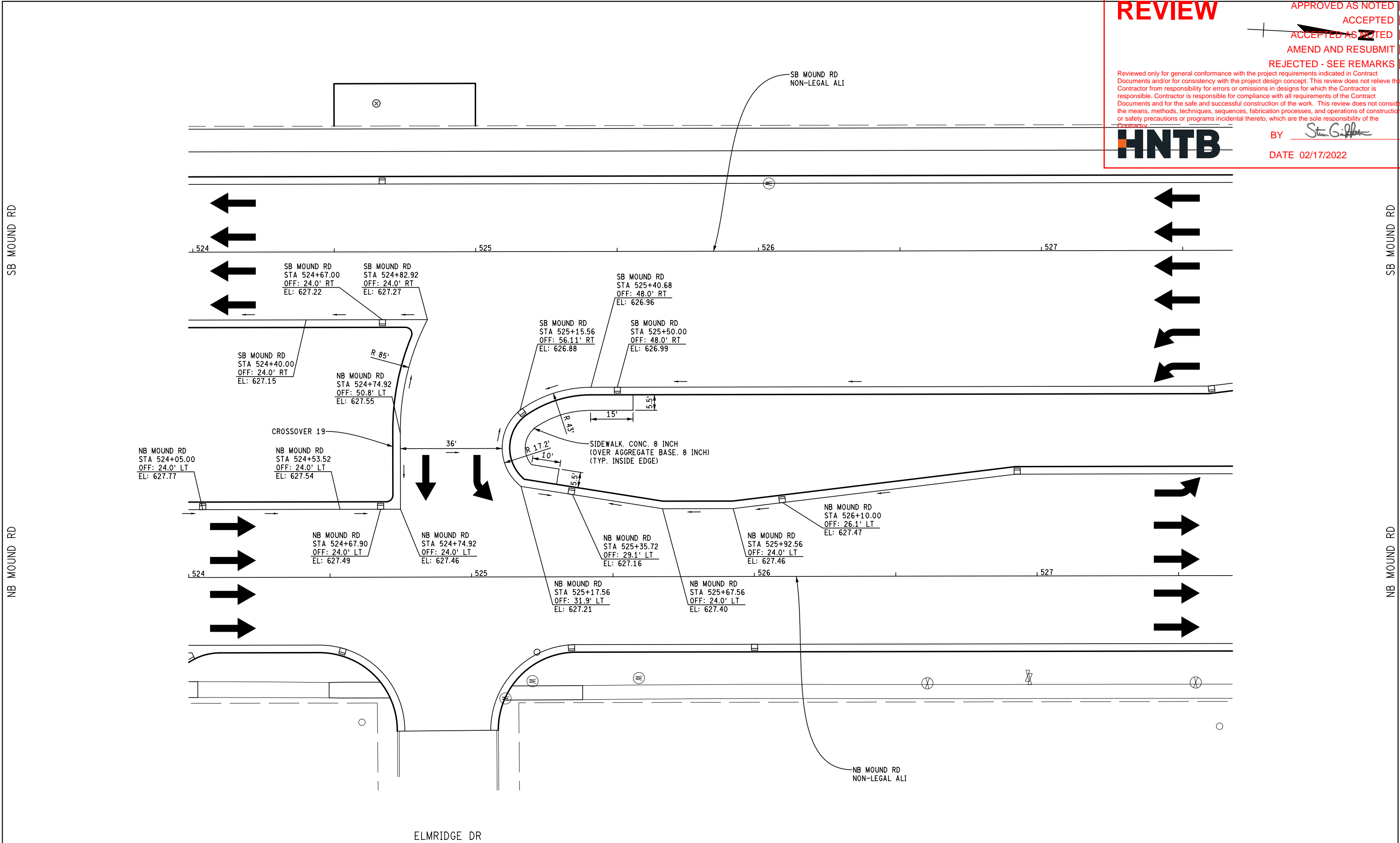
REJECTED - SEE REMARKS ☐



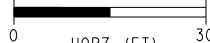
Reviewed only for general conformance with the project requirements indicated in Contract Documents and/or for consistency with the project design concept. This review does not relieve the Contractor from responsibility for errors or omissions in designs for which the Contractor is responsible. Contractor 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 Contractor.

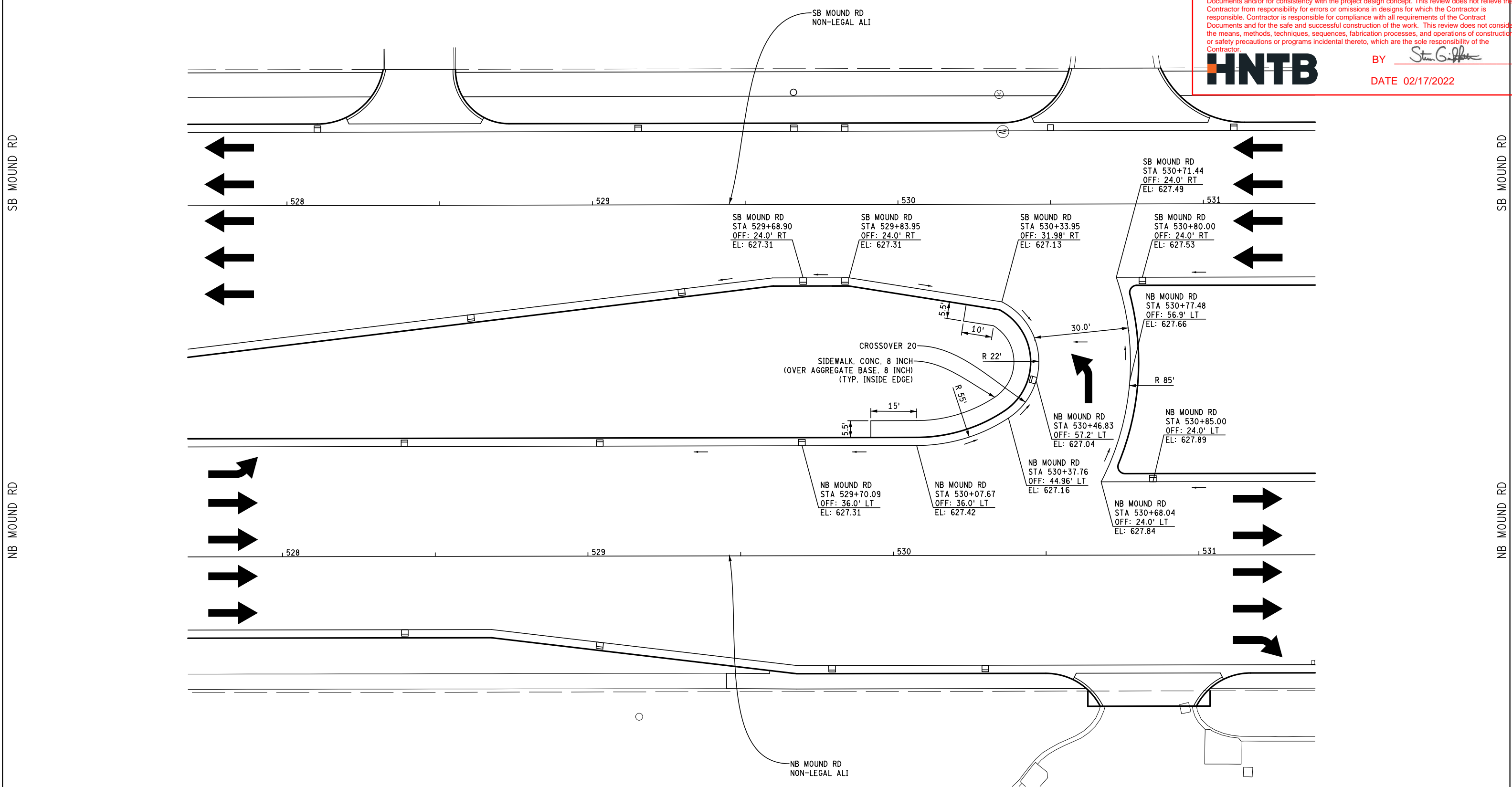
HNTB




BY 

DATE 02/17/2022



FINAL ROW PLAN REVISIONS				(SUBMITTAL DATE:)					 Department of Roads	 <div>HORZ. (FT)</div>		DATE: 01/31/22	CS: INFR50000	CROSSOVER DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION					DESIGN UNIT: xxx	JN: 207178A	CROSSOVER 19		MOUND DETGRD 14	SECT 1
											FILE: 207178_N_Mound_X0_14_524.dgn	TSC: MACOMB					46



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								  Department of Roads	 0 30 HORZ. (FT)	DATE: 01/31/22	CS: INFR50000	CROSSOVER DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: XXX	JN: 207178A	CROSSOVER 20		MOUND DETGRD 15	SECT 1 47
										FILE: 207178_N_Mound_X0_15_528.dgn	TSC: MACOMB				

Innovate Mound Project

APPROVED ☐

APPROVED AS NOTED ☐

ACCEPTED ☒


ACCEPTED AS NOTED ☐

AMEND AND RESUBMIT ☐

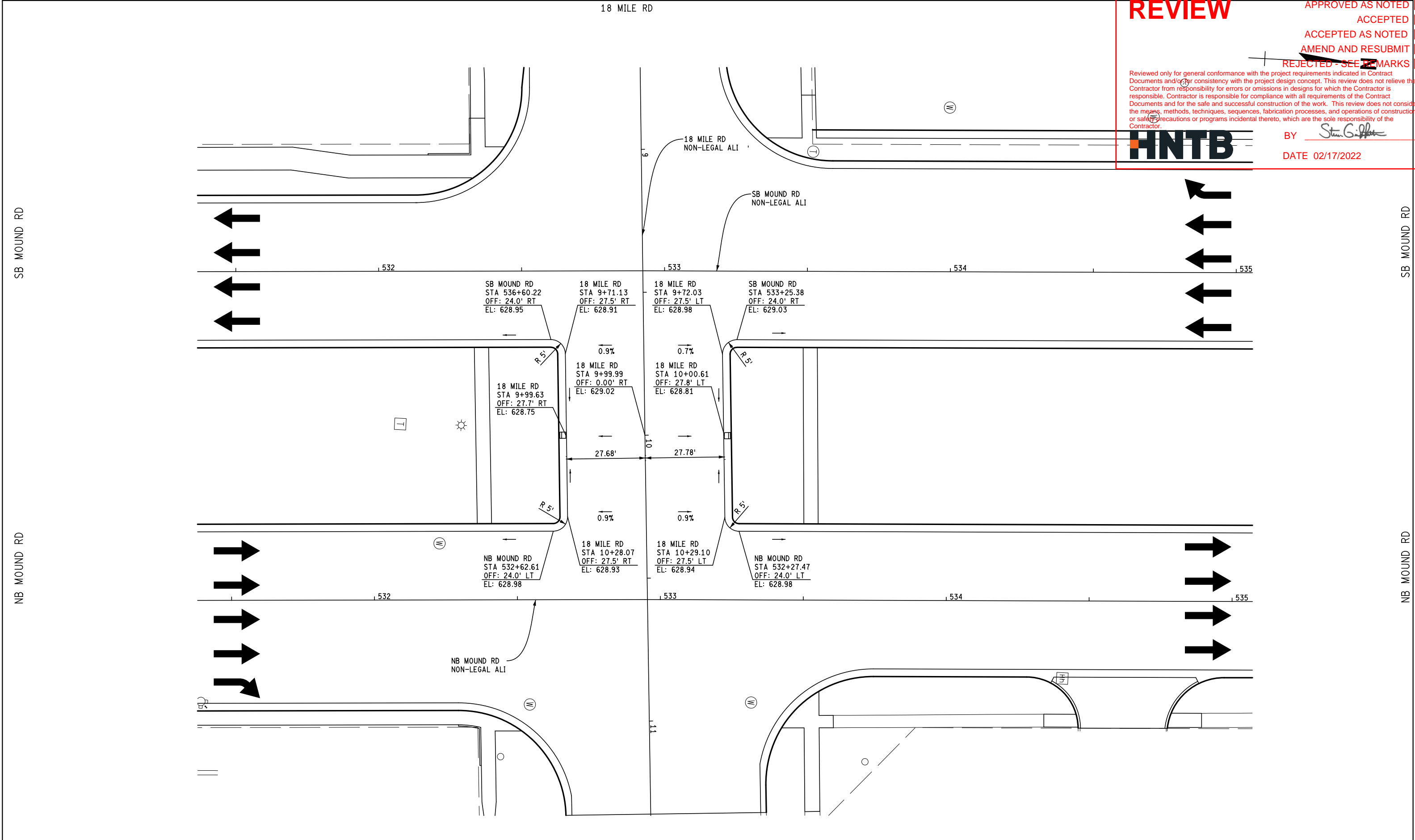
REJECTED - SEE REMARKS ☐

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HNTB

BY 

DATE 02/17/2022



Innovate Mound Project

REVIEW

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 Contractor.

HNTB

BY *Stu G. Allen*

DATE 02/17/2022

SB MOUND RD
NON-LEGAL ALI

NB MOUND RD
NON-LEGAL ALI

SB MOUND RD STA 535+66.86
OFF: 24.0' RT
EL: 627.47

SB MOUND RD STA 536+50.00
OFF: 24.0' RT
EL: 627.22

SB MOUND RD STA 536+61.77
OFF: 24.0' RT
EL: 627.18

SB MOUND RD STA 537+22.13
OFF: 36.0' RT
EL: 626.76

SB MOUND RD STA 536+92.04
OFF: 44.9' RT
EL: 626.67

SB MOUND RD STA 537+35.12
OFF: 36.0' RT
EL: 626.72

SB MOUND RD STA 538+66.50
OFF: 36.0' RT
EL: 626.33

NB MOUND RD STA 535+66.99
OFF: 24.0' LT
EL: 627.47

NB MOUND RD STA 536+50.00
OFF: 24.0' LT
EL: 627.16

NB MOUND RD STA 536+57.78
OFF: 24.0' LT
EL: 627.13

NB MOUND RD STA 536+95.27
OFF: 31.9' LT
EL: 626.95

NB MOUND RD STA 537+45.27
OFF: 24.0' LT
EL: 626.81

NB MOUND RD STA 537+70.27
OFF: 24.0' LT
EL: 626.72

NB MOUND RD STA 538+67.20
OFF: 35.6' LT
EL: 626.12

R 85'

R 22'

R 55'

CROSSOVER 21

SIDEWALK, CONC, 8 INCH
(OVER AGGREGATE BASE, 8 INCH)
(TYP, INSIDE EDGE)

30.0'

15'

10'

5.5'

5.5'

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

AECOM

Department of Roads

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HORZ. (FT)

30

FILE: 207178_N_Mound_X0_17_536.dgn

TSC: MACOMB

DATE: 01/31/22

DESIGN UNIT: XXX

CS: INFR50000

JN: 207178A

CROSSOVER DETAIL GRADES

CROSSOVER 21

DRAWING

SHEET

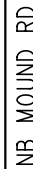
MOUND DETGRD




17

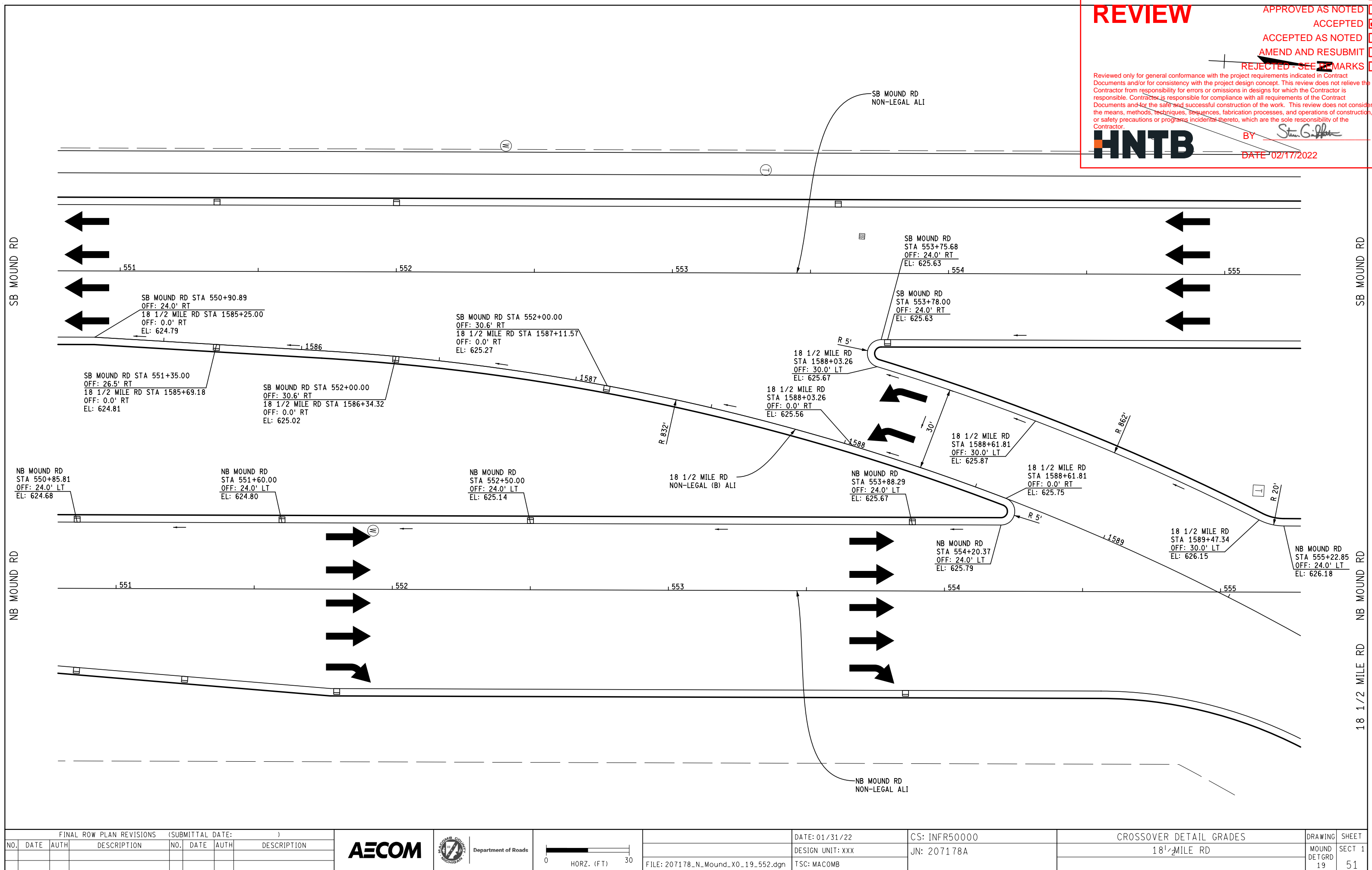
SECT

1

49



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										Department of Roads	 0 30 HORZ. (FT)		DATE: 01/31/22	CS: INFR50000	CROSSOVER DETAIL GRADES	DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION						DESIGN UNIT: XXX	JN: 207178A	CROSSOVER 22	MOUND DETGRD 18	SECT 1 50
										FILE: 207178_N_Mound_X0_18_542.dgn	TSC: MACOMB						



Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED


ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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HNTB

BY 

DATE 02/17/2022

The diagram illustrates the plan view of Crossover 23, showing the intersection and crossover of Southbound (SB) and Northbound (NB) Mound Road. The SB Mound Rd runs horizontally across the top, with stationing from 567 to 570. The NB Mound Rd runs horizontally across the bottom, also with stationing from 567 to 570. A crossover structure is shown between the two roads, featuring a 30.0' wide section and a 15' wide section. The crossover includes a sidewalk, concrete, and aggregate base. Key stationing points and elevations are provided for both directions of travel. The diagram also shows the non-legal alignment (ALI) for both SB and NB Mound Rd.

SB MOUND RD
NON-LEGAL ALI

SB MOUND RD
STA 567+25.67
OFF: 24.0' RT
EL: 632.09

SB MOUND RD
STA 567+55.94
OFF: 44.9' RT
EL: 631.58

SB MOUND RD
STA 567+53.91
OFF: 46.5' RT
EL: 631.59

SB MOUND RD
STA 567+16.22
OFF: 56.9' LT
EL: 631.88

SB MOUND RD
STA 567+86.03
OFF: 36.0' RT
EL: 632.25

SB MOUND RD
STA 568+10.00
OFF: 36.0' RT
EL: 632.40

SB MOUND RD
STA 567+21.93
OFF: 24.0' LT
EL: 631.67

NB MOUND RD
STA 567+59.42
OFF: 31.98' LT
EL: 631.72

NB MOUND RD
STA 568+30.00
OFF: 24.0' LT
EL: 632.19

NB MOUND RD
STA 568+09.42
OFF: 24.0' LT
EL: 632.11

NB MOUND RD
NON-LEGAL ALI

CROSSOVER 23

R 85'

30.0'



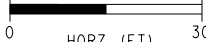
15'

5.5'

10'

R 22'

SIDEWALK, CONC, 8 INCH
(OVER AGGREGATE BASE, 8 INCH)
(TYP, INSIDE EDGE)

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										Department of Roads		FILE: 207178_N_Mound_X0_20_567.dgn	DATE: 01/31/22 DESIGN UNIT: XXX TSC: MACOMB	CS: INFR50000 JN: 207178A	CROSSOVER DETAIL GRADES		DRAWING MOUND DETGRD 20	SHEET SECT 1 52		
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION								CROSSOVER 23					

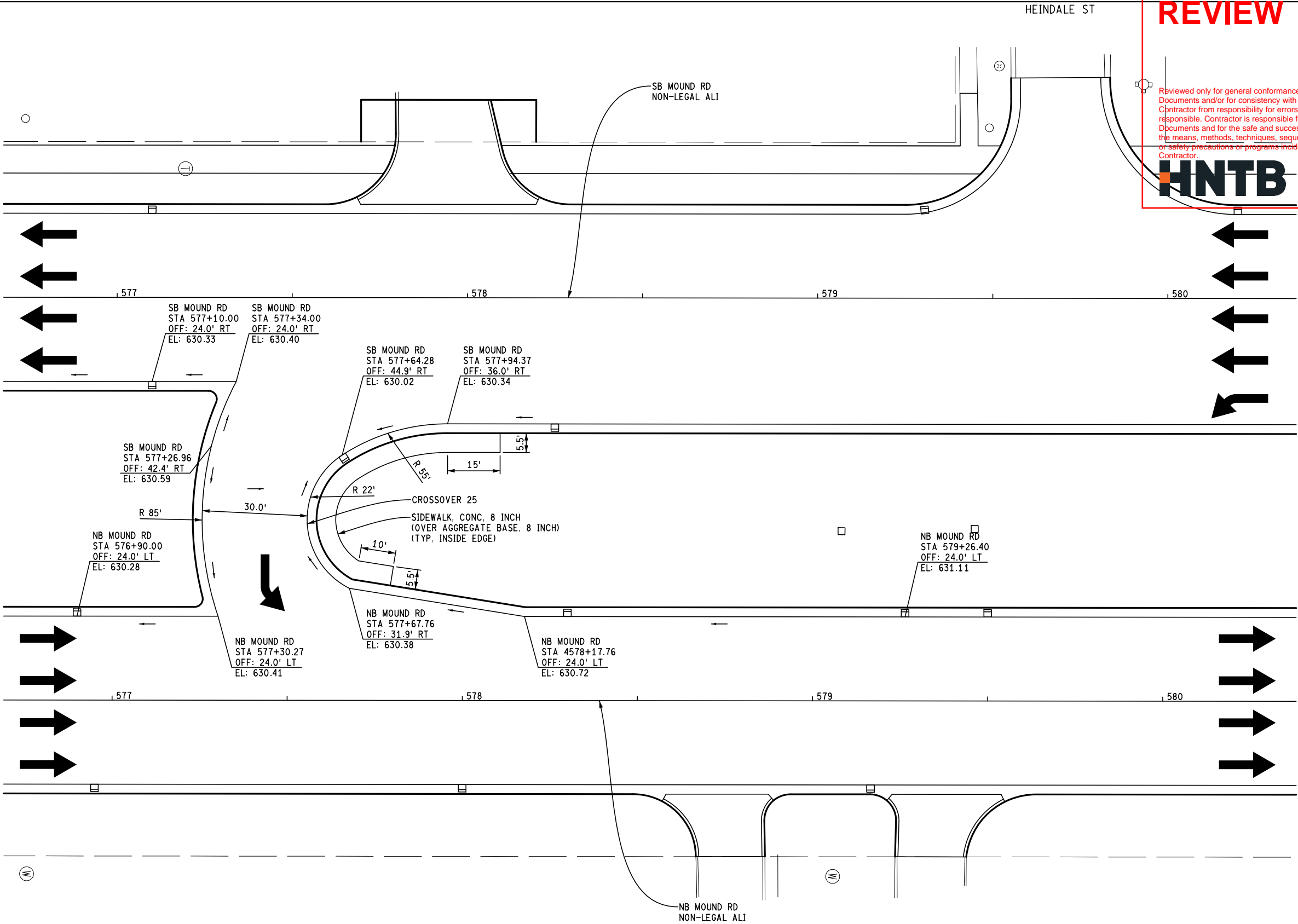
NB MOUND RD

SB MOUND RD

NB MOUND RD

SB MOUND RD

NB MOUND RD




Innovate Mound Project

REVIEW

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 Contractor.

HNTB

BY 

DATE 02/17/2022

APPROVED ☐

APPROVED AS NOTED ☐

ACCEPTED ☒

ACCEPTED AS NOTED ☐

AMEND AND RESUBMIT ☐

REJECTED - SEE REMARKS ☐

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

FILE: 207178_N_Mound_X0_22_577.dgn

DATE: 01/31/22
DESIGN UNIT: XXX
TSC: MACOMB

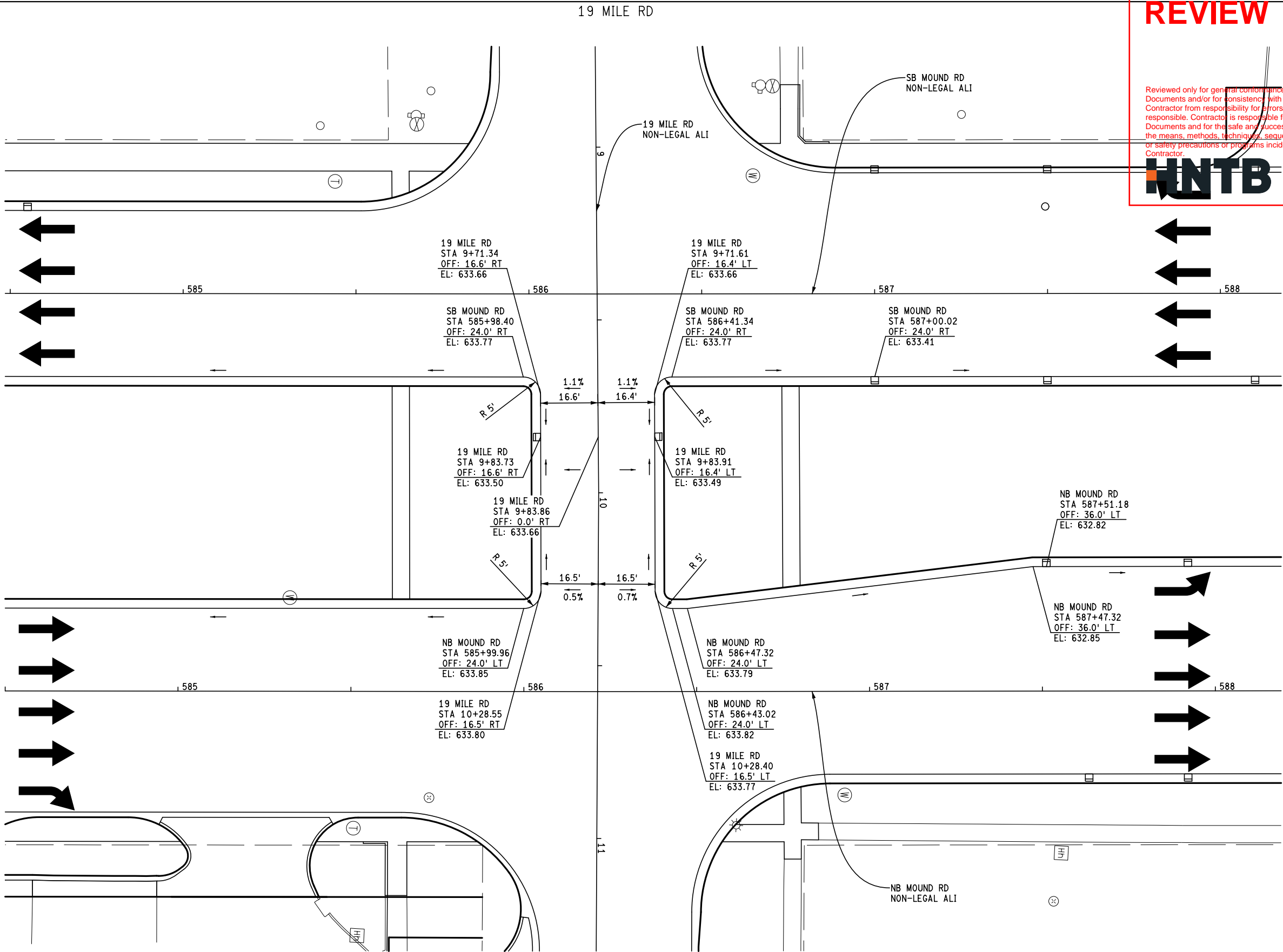
CS: INFR50000
JN: 207178A

CROSSOVER DETAIL GRADES
CROSSOVER 25

DRAWING	SHEET
MOUND DETGRD 22	54

SB MOUND RD

NB MOUND RD



Innovate Mound Project

REVIEW

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BY *Stu G. [Signature]*

DATE 02/17/2022

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

19 MILE RD

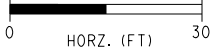
19 MILE RD

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

AECOM



Department of Roads



FILE: 207178_N_Mound_X0_23_585.dgn

DATE: 01/31/22
DESIGN UNIT: XXX
TSC: MACOMB

CS: INFR50000
JN: 207178A

CROSSOVER DETAIL GRADES
19 MILE RD

DRAWING	SHEET
MOUND DETGRD	SECT 1
23	55

Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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HNTB

BY *Stu G. [Signature]*

DATE 02/17/2022

The diagram illustrates a plan view of a road crossover, labeled 'CROSSOVER 26'. It shows the intersection of SB Mound Rd and NB Mound Rd. The SB Mound Rd runs horizontally across the top, with stationing 591, 592, and 593. The NB Mound Rd runs horizontally across the bottom, also with stationing 591, 592, and 593. A central crossover structure connects the two roads, featuring a 'SIDEWALK, CONC, 8 INCH (OVER AGGREGATE BASE, 8 INCH) (TYP, INSIDE EDGE)' and a 'CROSSOVER 26' label. Key stationing and elevation points are marked along both roads, including offsets from the right (RT) and left (LT) edges. For example, on SB Mound Rd, STA 591+27.60 has an offset of 24.0' RT and an elevation of 634.37. On NB Mound Rd, STA 590+29.90 has an offset of 36.0' LT and an elevation of 633.46. The diagram also shows a 'NON-LEGAL ALI' (Abandoned Line of Intersection) for both directions. Arrows indicate the flow of traffic: four arrows pointing up for SB Mound Rd and four arrows pointing down for NB Mound Rd. A large curved arrow in the center indicates the crossover path. A scale bar at the bottom indicates a horizontal distance of 30 feet.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								<div><div>AECOM</div><div><div>MACOMB COUNTY</div><div>Department of Roads</div></div></div>	<div><div>0</div><div>HORZ. (FT)</div><div>30</div></div>	FILE: 207178_N_Mound_X0_24_591.dgn	DATE: 01/31/22	CS: INFR50000	CROSSOVER DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION				MOUND DETGRD	SECT				
											24	1				
												56				

TSC: MACOMB

JN: 207178A

CROSSOVER 26

Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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HNTB

BY *Stu G. [Signature]*

DATE 02/17/2022

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								<div><div>AECOM</div><div><div>MACOMB COUNTY</div><div>Department of Roads</div></div></div>	<div><div>0</div><div>HORZ. (FT)</div><div>30</div></div>	FILE: 207178_N_Mound_X0_25_594.dgn	DATE: 01/31/22	CS: INFR50000	CROSSOVER DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION				CROSSOVER27		MOUND DETGRD	SECT 1		
													25	57		

Innovate Mound Project

REVIEW

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 Contractor.



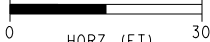
HNTB

BY 

DATE 02/17/2022

The diagram illustrates the plan view of two crossovers, Crossover 28 and Crossover 29, on SB Mound Rd and NB Mound Rd. The SB Mound Rd runs horizontally across the top, and NB Mound Rd runs horizontally across the bottom. The crossovers are located in the center of the plan. Stationing is provided for both directions of travel. Offsets and elevations are given for various points along the alignments. The diagram also shows the locations of sidewalks, aggregate bases, and non-legal alignments. Key features include:

- SB Mound Rd:** STA 616+37.41 to STA 620+00.00. Offsets range from 24.0' to 58.0'. Elevations range from 638.21 to 639.98.
- NB Mound Rd:** STA 616+60.48 to STA 620+05.77. Offsets range from 24.0' to 44.9'. Elevations range from 638.11 to 639.83.
- Crossover 28:** Located between STA 616+37.41 and STA 617+29.25. It features a 30.0' wide section with a 10' offset and a 5.5' offset.
- Crossover 29:** Located between STA 619+52.61 and STA 620+05.77. It features a 30.0' wide section with a 10' offset and a 5.5' offset.
- Sidewalks:** 8 inch concrete sidewalks are shown on both sides of the crossovers.
- Aggregate Base:** 8 inch aggregate base is shown on both sides of the crossovers.
- Non-Legal Ali:** Non-legal alignments are indicated for both SB and NB Mound Rd.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										Department of Roads		FILE: 207178_N_Mound_X0_26_617.dgn	DATE: 01/31/22 DESIGN UNIT: XXX TSC: MACOMB	CS: INFR50000 JN: 207178A	CROSSOVER DETAIL GRADES CROSSOVER 28 & 29	DRAWING MOUND DETGRD 26	SHEET 58
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION										

Innovate Mound Project

APPROVED ☐

APPROVED AS NOTED ☐

ACCEPTED ☒


ACCEPTED AS NOTED ☐

AMEND AND RESUBMIT ☐

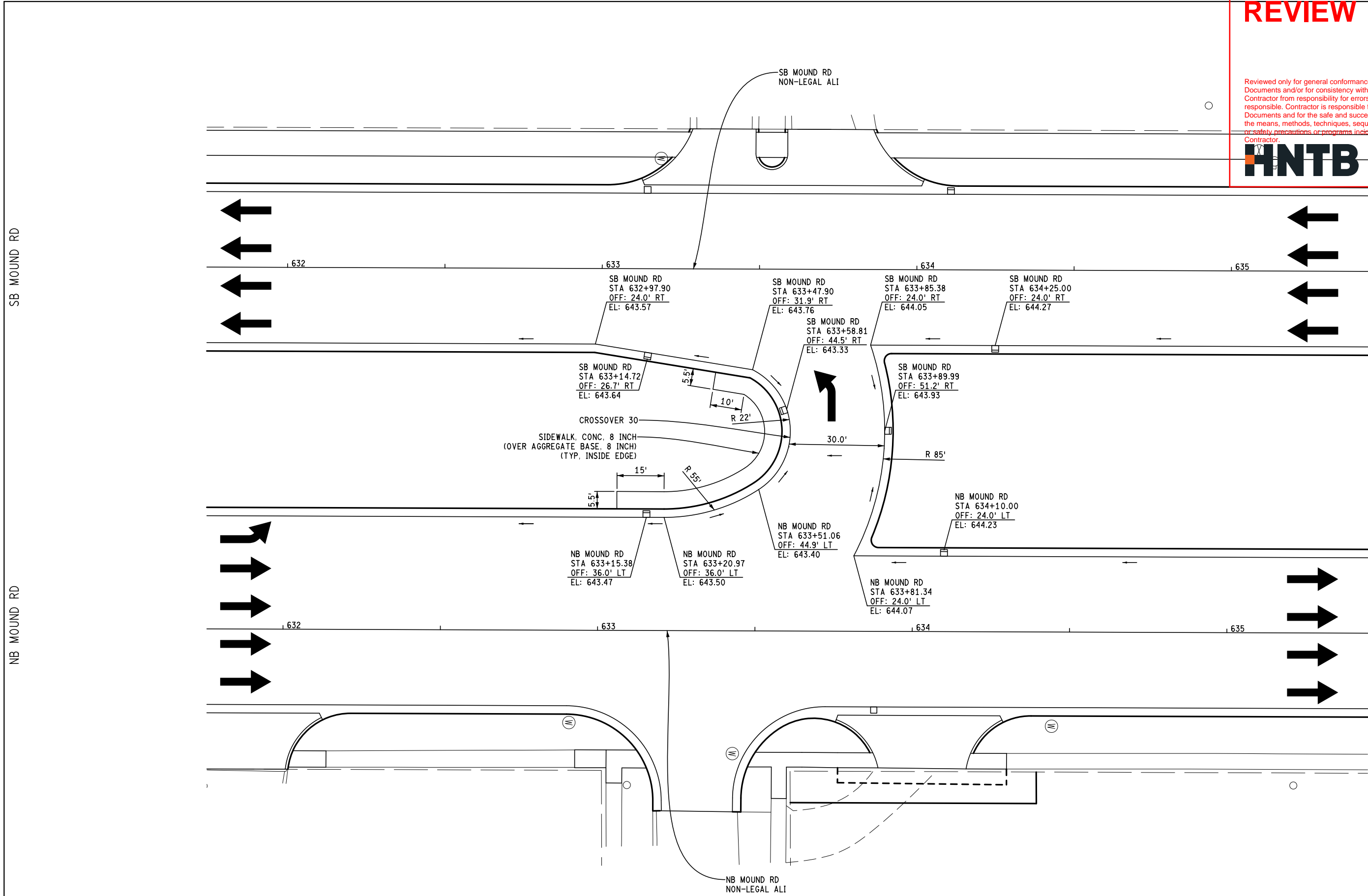
REJECTED - SEE REMARKS ☐

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HNTB

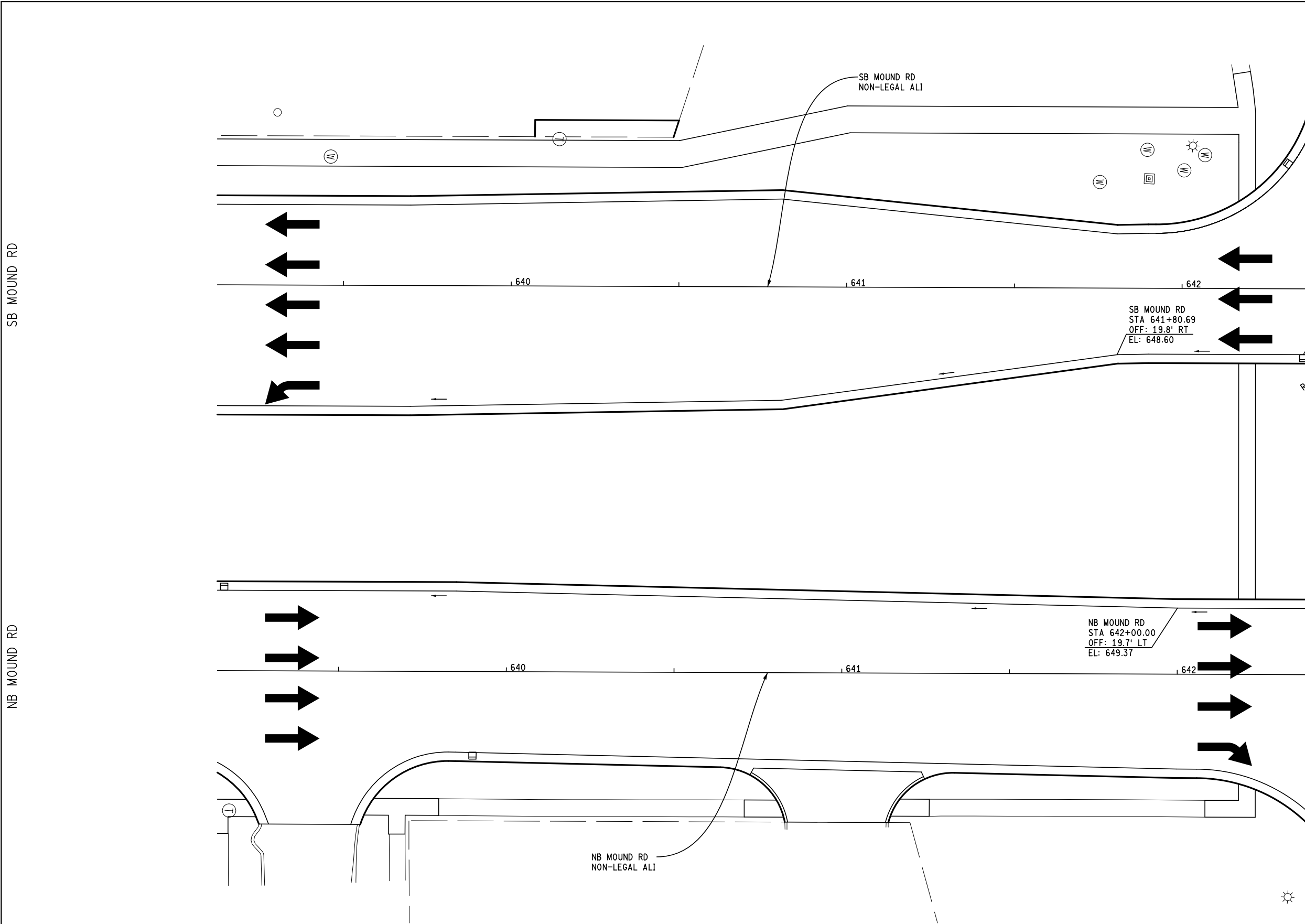
BY 

DATE 02/17/2022





FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								 			DATE: 01/31/22	CS: INFR50000	CROSSOVER DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION				DESIGN UNIT: xxx	JN: 207178A	CROSSOVER 31		MOUND DETGRD 28	SECT 1
											FILE: 207178_N_Mound_X0_28_636.dgn	TSC: MACOMB			60	



Innovate Mound Project

REVIEW

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HNTB

BY *Stu G. [Signature]*

DATE 02/17/2022

APPROVED ☐

APPROVED AS NOTED ☐

ACCEPTED ☒

ACCEPTED AS NOTED ☐

AMEND AND RESUBMIT ☐

REJECTED - SEE REMARKS ☐

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								<div><div>AECOM</div><div><div>MACOMB COUNTY</div><div>Department of Roads</div></div></div>	<div><div>0</div><div>HORZ. (FT)</div><div>30</div></div>	FILE: 207178_N_Mound_X0_29_640.dgn	DATE: 01/31/22	CS: INFR50000	CROSSOVER DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION				DESIGN UNIT: XXX	JN: 207178A	M-59 (DOBRY DR)	MOUND DETGRD	SECT 1	
														29	61	
											TSC: MACOMB					

Innovate Mound Project

REVIEW

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HNTB

BY 

DATE 02/17/2022

APPROVED ☐

APPROVED AS NOTED ☐

ACCEPTED ☒

ACCEPTED AS NOTED ☐

AMEND AND RESUBMIT ☐



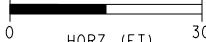
REJECTED - SEE REMARKS ☐

WB 16 MILE RD

EB 16 MILE RD

WB 16 MILE RD

EB 16 MILE RD

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										Department of Roads		FILE: 207178_N_Mound_X0_004_16 Mile.dwg	DATE: 01/31/22	DESIGN UNIT: XXX	CS: INFR50000 JN: 207178A	CROSSOVER DETAIL GRADES CROSSOVER 32 (16 MILE RD)	DRAWING 16 MILE DETGRD 30	SHEET SECT 1 62
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION											

NB MOUND RD

Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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HNTB

BY *Stu G. [Signature]*

DATE 02/17/2022

NB MOUND RD

NB MOUND RD. R = 40.17'
405+73.55, 64.2' RT
N = 388852.79
E = 13478476.21

NB MOUND RD. R = 40.17'
407+10.45, 64.2' RT
N = 388989.49
E = 13478468.89

Center Road details: EX 623.18 67.5' RT, EX 623.22 77.5' RT, EX 623.18 67.4' RT, EX 622.97 73.2' RT, EX 623.03 67.4' RT, EX 622.62 73.2' RT.

CENTER ROAD

623.53 +90.89, 38.50' RT
623.45 +00.89, 38.50' RT
623.05 +00.89, 38.50' RT
623.07 +04.84, 43.50' RT
623.60 +90.89, 43.50' RT
623.13

SIDEWALK RAMP DETAIL - SE QUADRANT
NOT TO SCALE

622.74 +34.82, 38.50' RT
623.04
622.97
622.62 +49.10, 38.50' RT
622.82 +34.82, 43.50' RT
623.12
623.04
622.72 +49.10, 43.50' RT

SIDEWALK RAMP DETAIL - CENTER QUADRANT
NOT TO SCALE

622.54 +85.13, 36.50' RT
623.81 +05.13, 36.50' RT
623.74
622.64 +80.57, 41.50' RT
622.62
623.82
623.89 +05.13, 41.50' RT

SIDEWALK RAMP DETAIL - NE QUADRANT
NOT TO SCALE

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

DATE: 01/31/22		CS: INFR50000		DRAWING	SHEET
DESIGN UNIT: XXX		JN: 207178A			
FILE: 207178_N_Mound_DTG_NB_01_Cen				MOUND DETGRD	SECT 1
6756gMACOMB					
INTERSECTION DETAIL GRADES				31	63
NB MOUND & CENTER RD					

Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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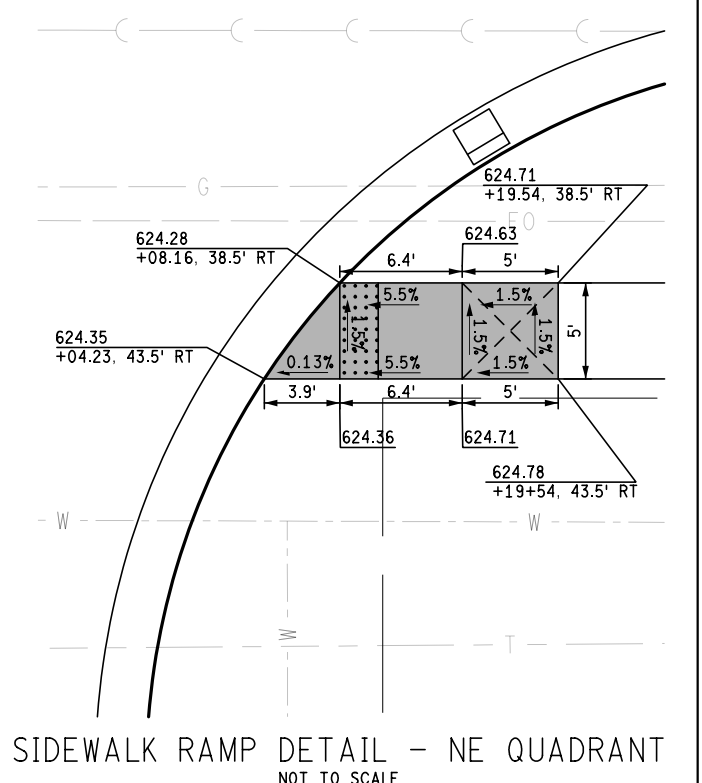
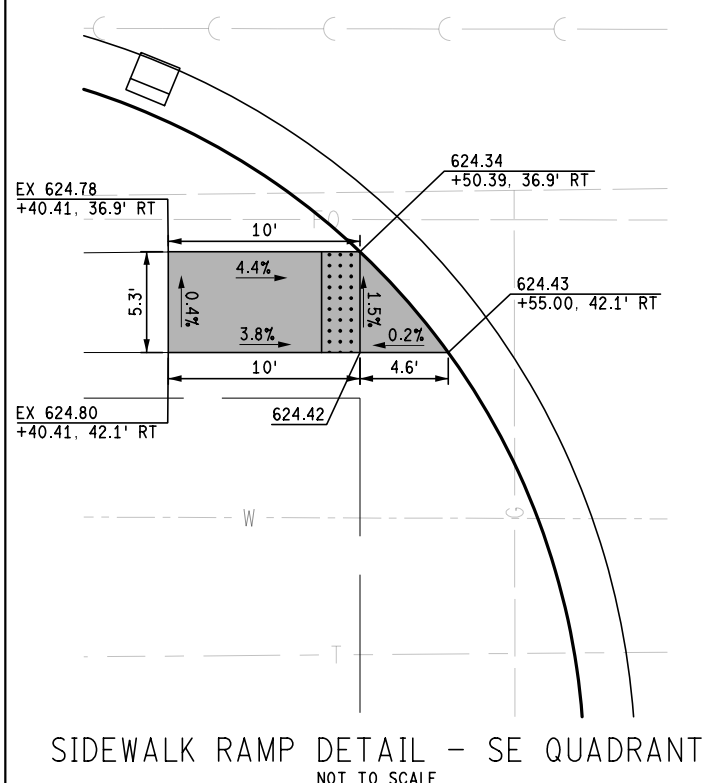
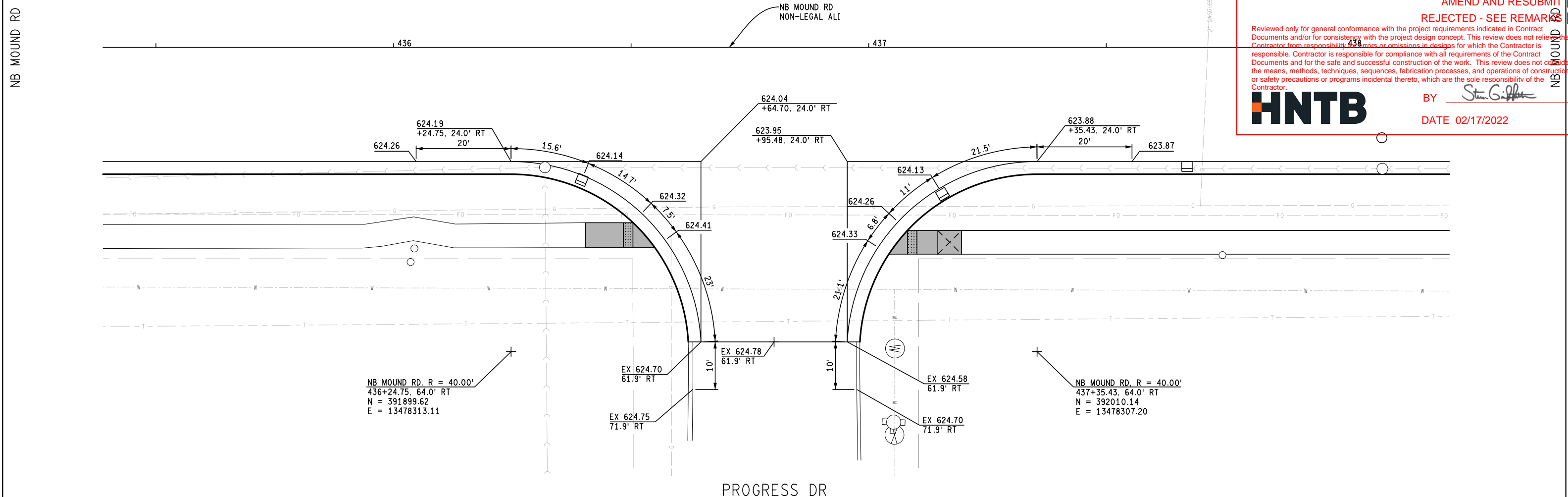
HNTB




BY *Stu G. [Signature]*

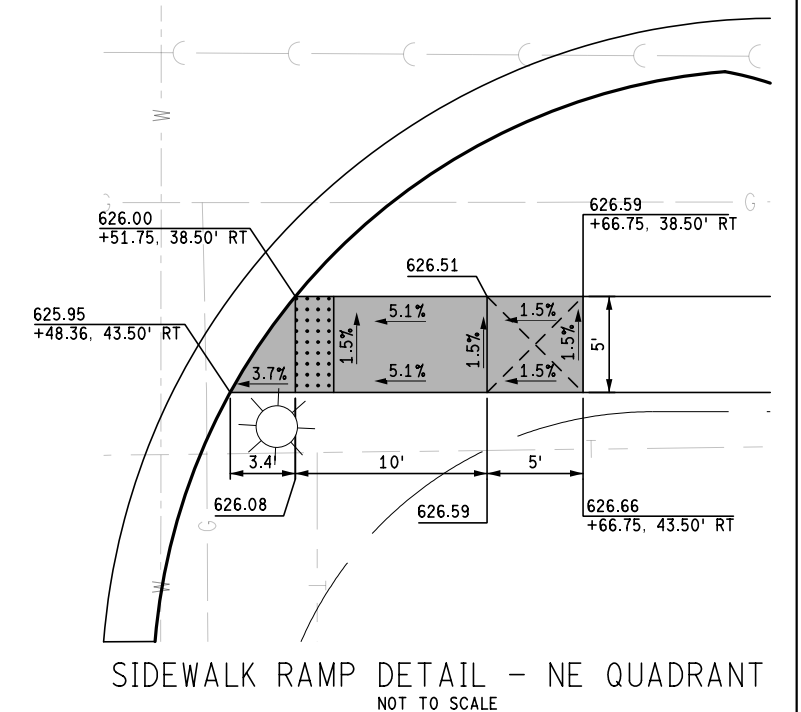
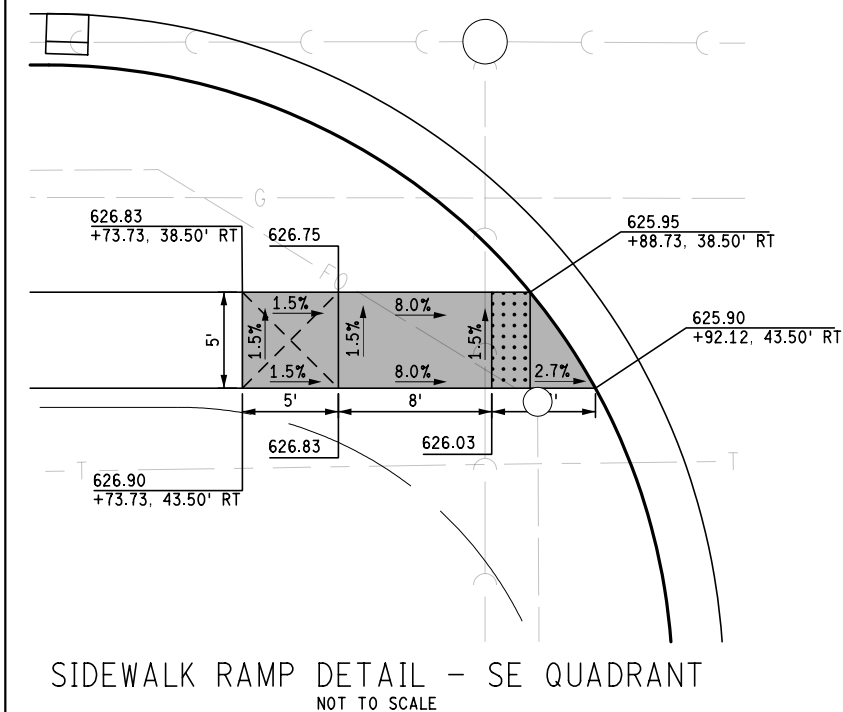
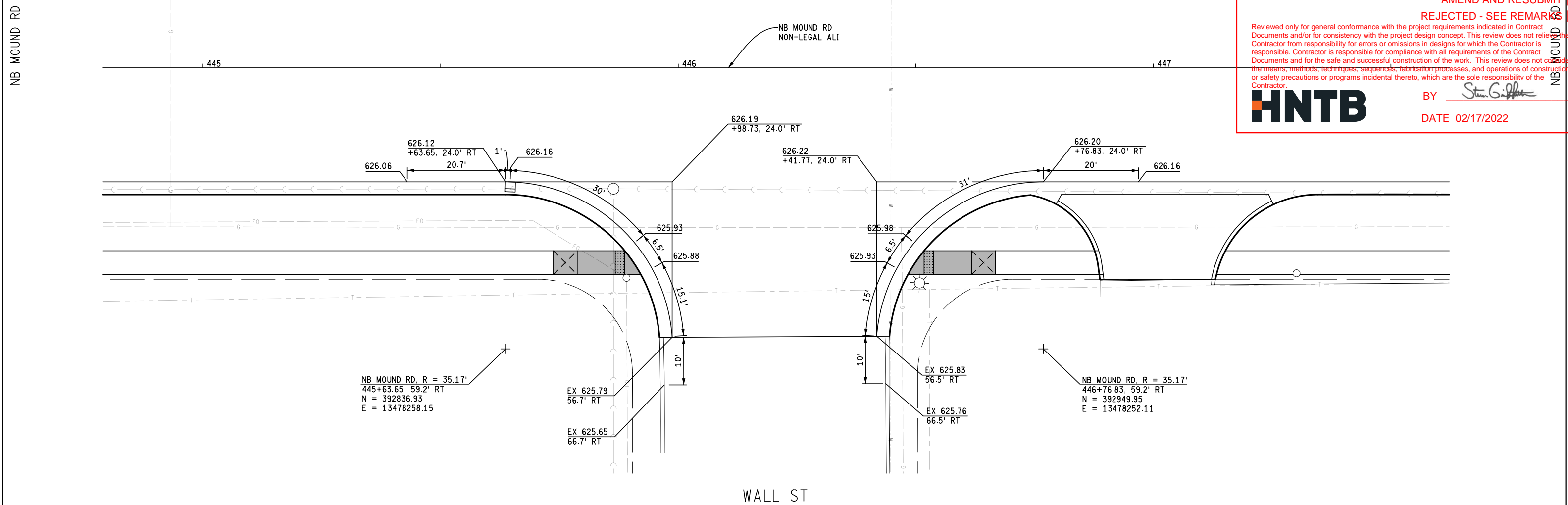
DATE 02/17/2022




FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										AECOM		Department of Roads		0 20 HORZ. (FT)		DATE: 01/31/22 DESIGN UNIT: XXX		CS: INFR50000 JN: 207178A		INTERSECTION DETAIL GRADES NB MOUND & 16 MILE RD		DRAWING MOUND DETGRD 32		SHEET 64	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION																		

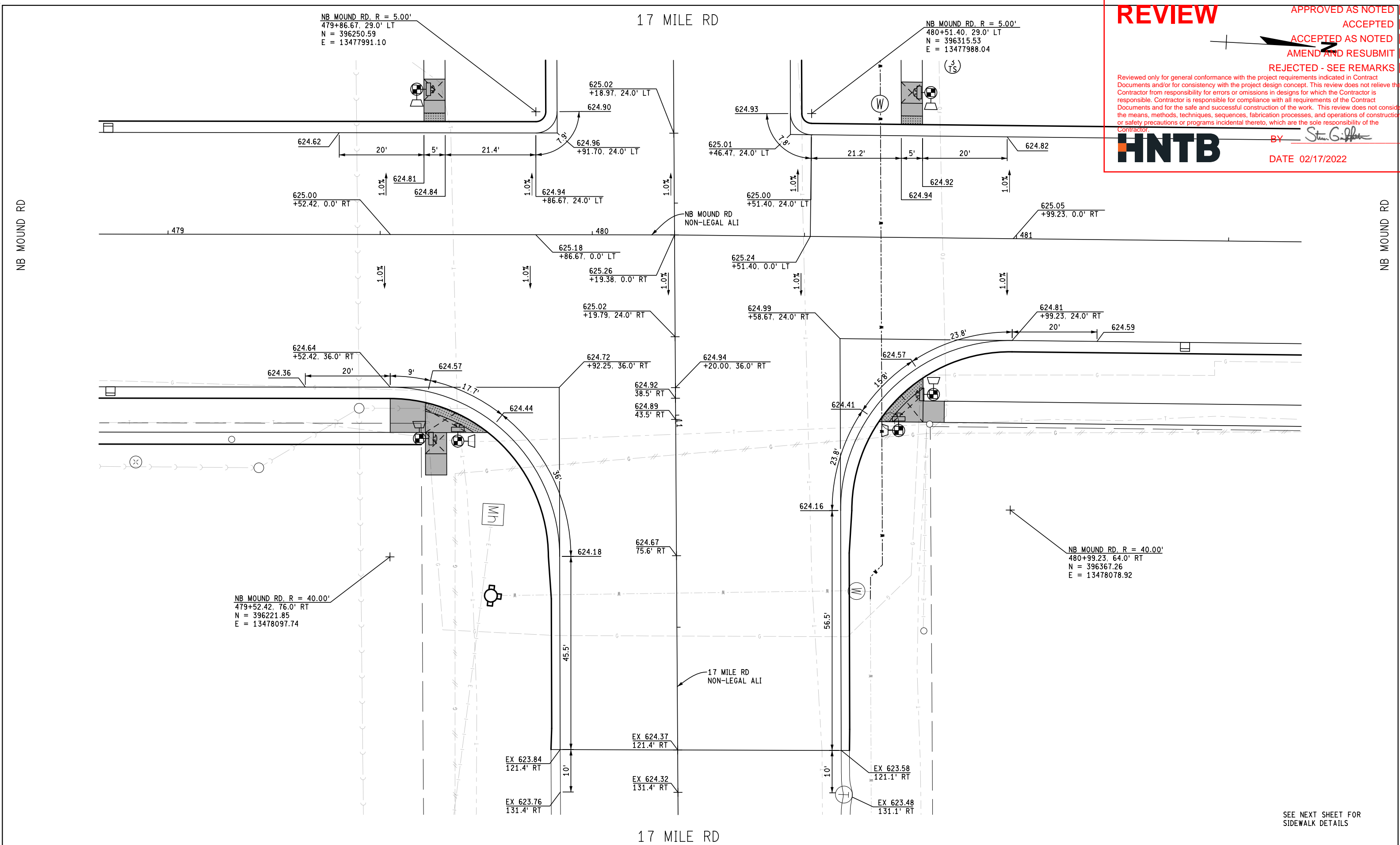
SEE NEXT SHEET FOR
SIDEWALK DETAILS






FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										Department of Roads	 0 20 HORZ. (FT)	DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING	SHEET		
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION					DESIGN UNIT: XXX	JN: 207178A				MOUND DETGRD 34	SECT 1 66
												FILE: 207178_N_Mound_DTG_NB_03_Progress.dwg	ESS: drc					



FINAL ROW PLAN REVISIONS				(SUBMITTAL DATE:)					 Department of Roads	 0 20 HORZ. (FT)		DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION					DESIGN UNIT: xxx	JN: 207178A	NB MOUND & WALL ST		MOUND DETGRD 35	SECT 1 67
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FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)												DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING	SHEET	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION					DESIGN UNIT: XXX	JN: 207178A		NB MOUND & 17 MILE RD	MOUND DETGRD 36	SECT 1 68
											FILE: 207178_N_Mound.DTG_NB_05_17_Mile	MACOMB					

Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED


ACCEPTED AS NOTED

AMEND AND RESUBMIT

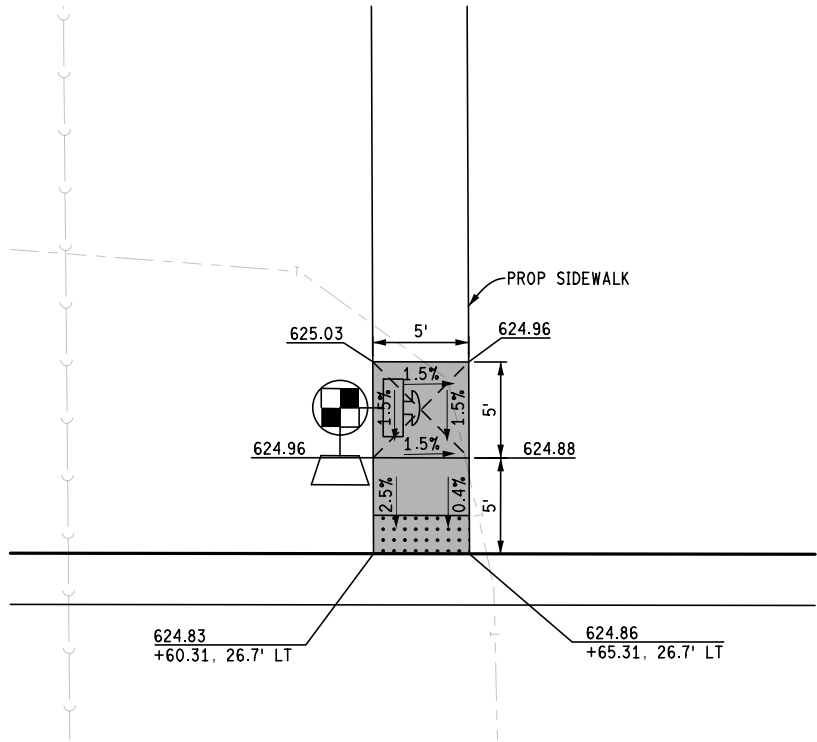
REJECTED - SEE REMARKS

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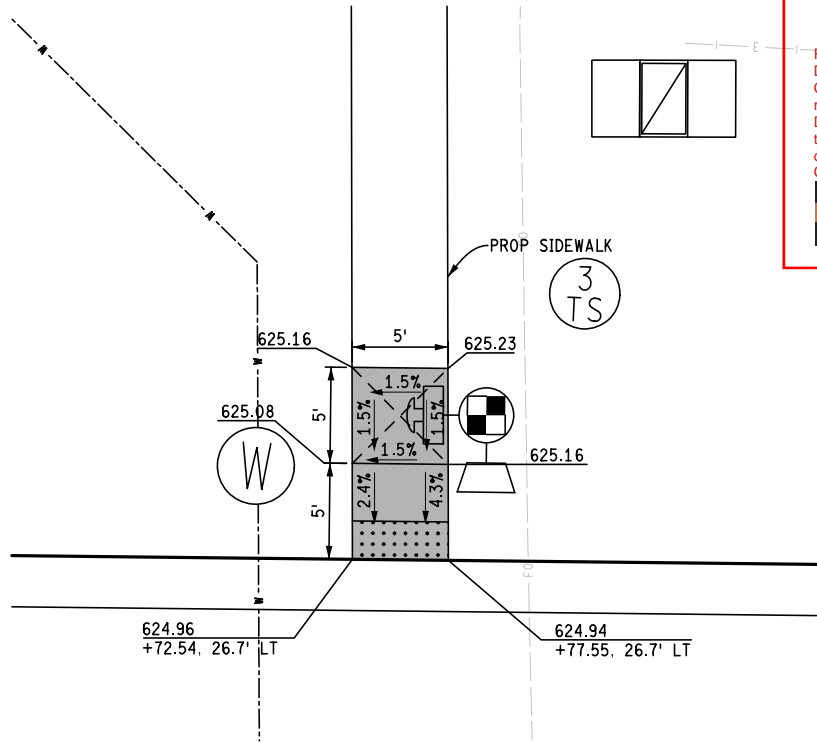
HNTB

BY 

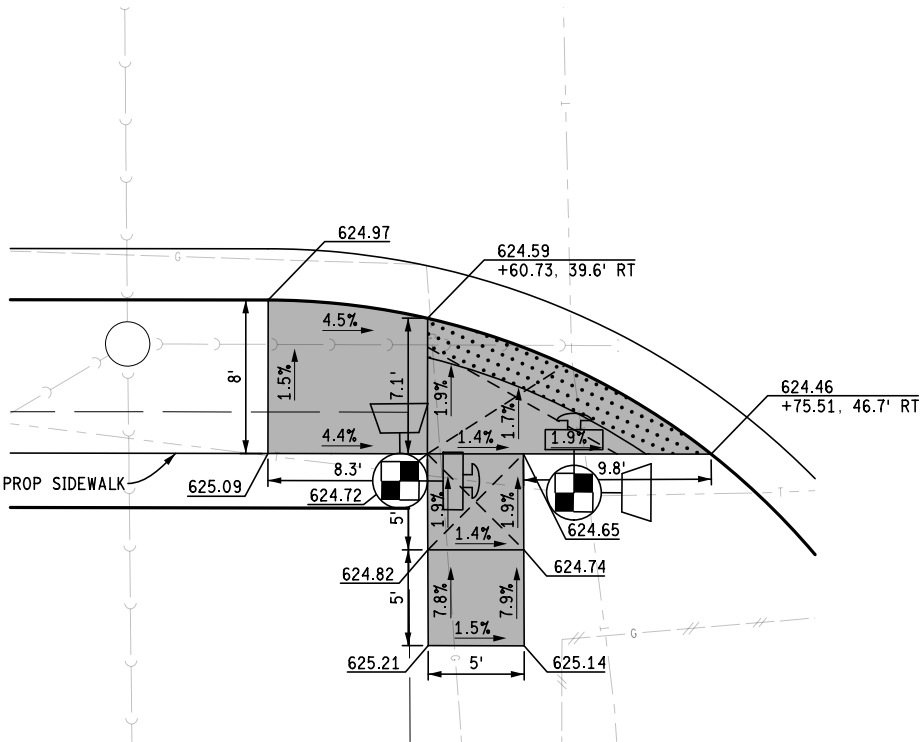
DATE 02/17/2022



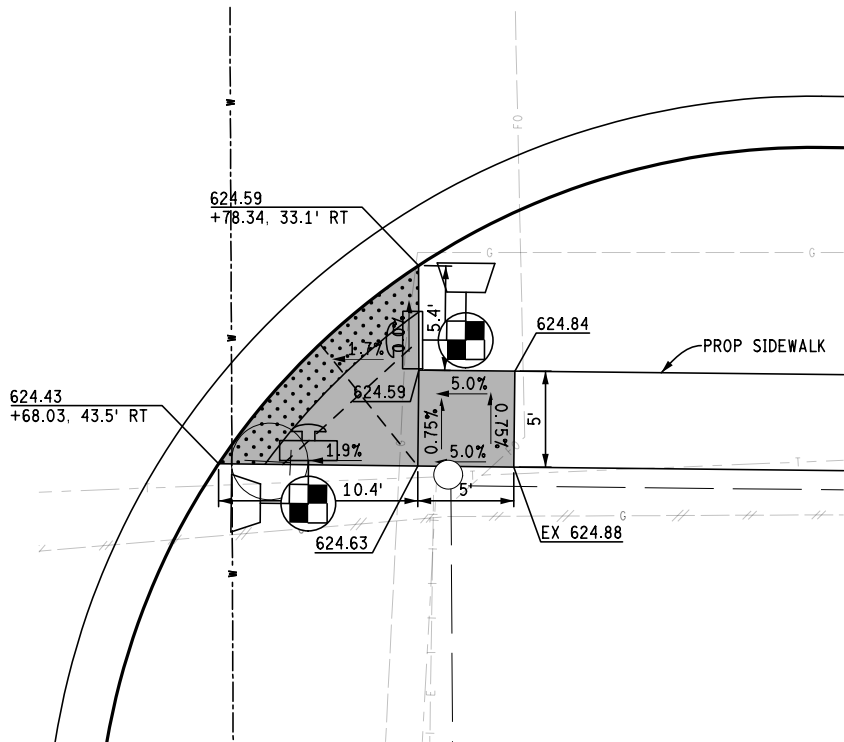
SIDEWALK RAMP DETAIL - SW QUADRANT



SIDEWALK RAMP DETAIL - NW QUADRANT



SIDEWALK RAMP DETAIL - SE QUADRANT



SIDEWALK RAMP DETAIL - NE QUADRANT

Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED


ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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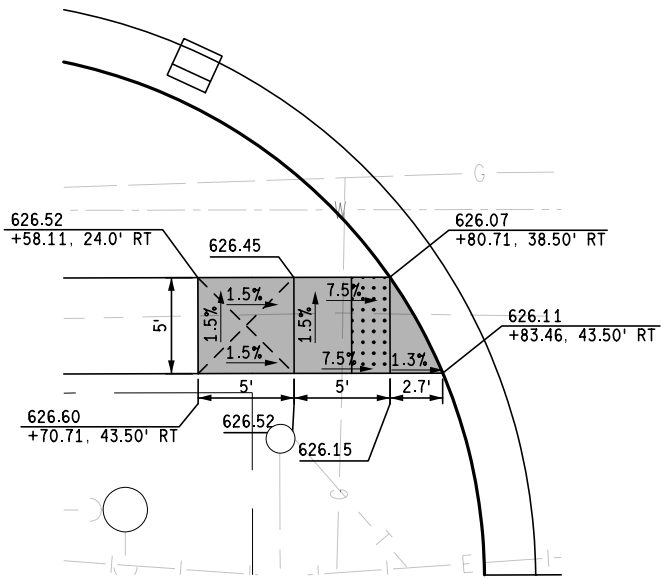
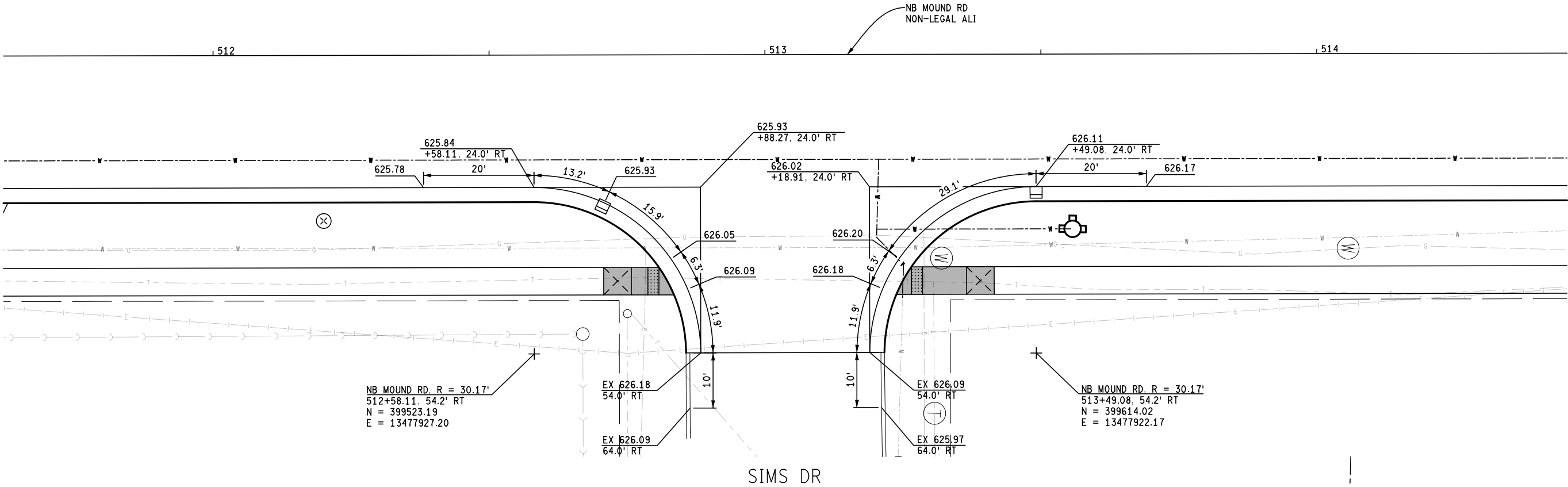
HNTB

BY 

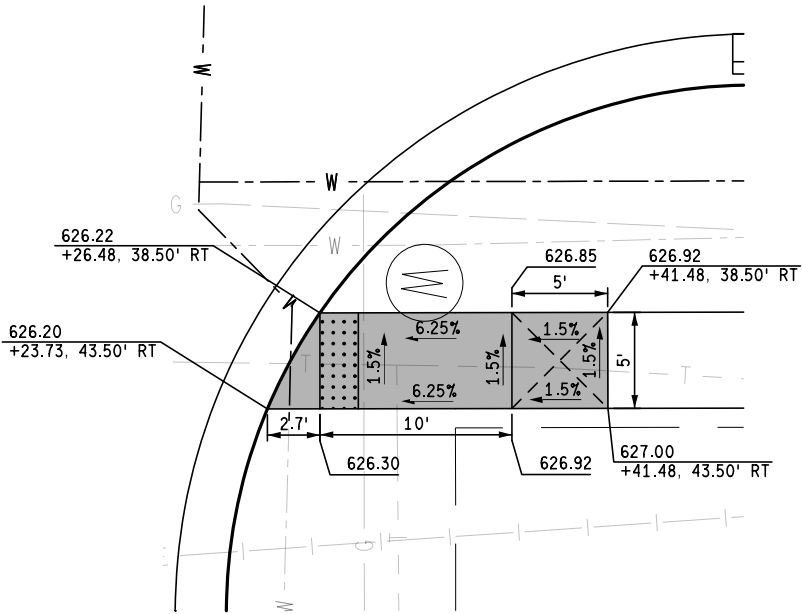
DATE 02/17/2022

NB MOUND RD

NB MOUND RD



SIDEWALK RAMP DETAIL - SE QUADRANT
NOT TO SCALE



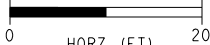
SIDEWALK RAMP DETAIL - NE QUADRANT
NOT TO SCALE

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

AECOM



Department of Roads



FILE: 207178_N_Mound_DTG_NB_06_Sims.dwg

DESIGN UNIT: XXX

DATE: 01/31/22

DESIGN UNIT: XXX

DESIGN UNIT: XXX

CS: INFR50000

JN: 207178A

INTERSECTION DETAIL GRADES

NB MOUND & SIMS DR

DRAWING

SHEET

MOUND DETGRD 38

SECT 1 70

Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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HNTB

BY *Stu G. [Signature]*

DATE 02/17/2022

NB MOUND RD

NB MOUND RD

SIDEWALK RAMP DETAIL - SE QUADRANT
NOT TO SCALE

SIDEWALK RAMP DETAIL - NE QUADRANT
NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)											FILE: 207178_N_Mound_DTG_NB_07_ElmrIDGE.DWG	DATE: 01/31/22 DESIGN UNIT: XXX	CS: INFR50000 JN: 207178A	INTERSECTION DETAIL GRADES		DRAWING	SHEET
NB MOUND & ELMRIDGE DR														MOUND DETGRD 39	SECT 1 71		

Innovate Mound Project

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

REVIEW

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HNTB

BY *Stu G. [Signature]*
DATE 02/17/2022

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								INTERSECTION DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	NB MOUND & 18 MILE RD			
										MOUND DETGRD	SECT 1
										40	72

AECOM

Department of Roads

0

HORZ. (FT)

20

DATE: 01/31/22

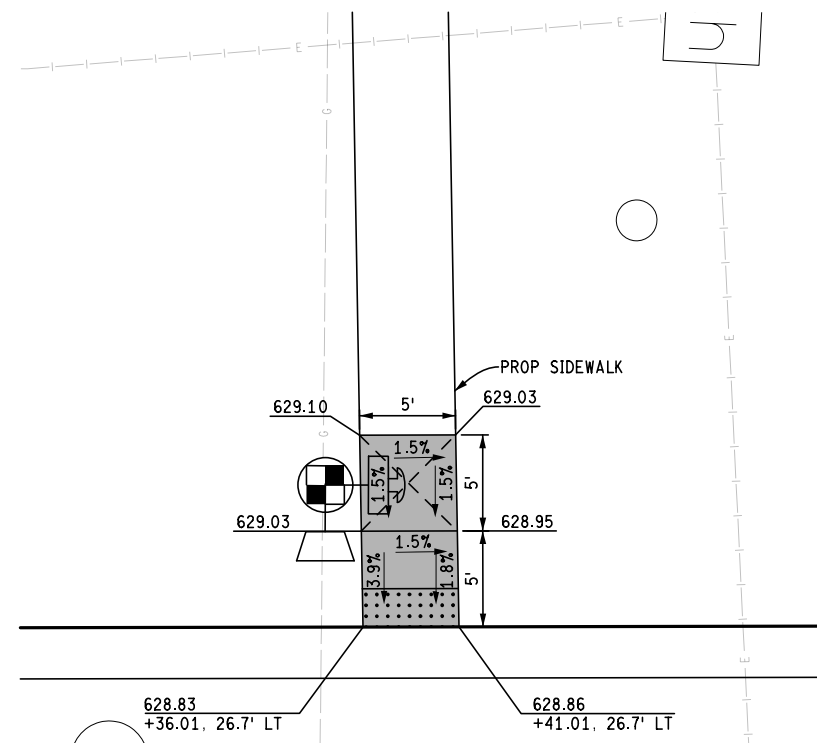
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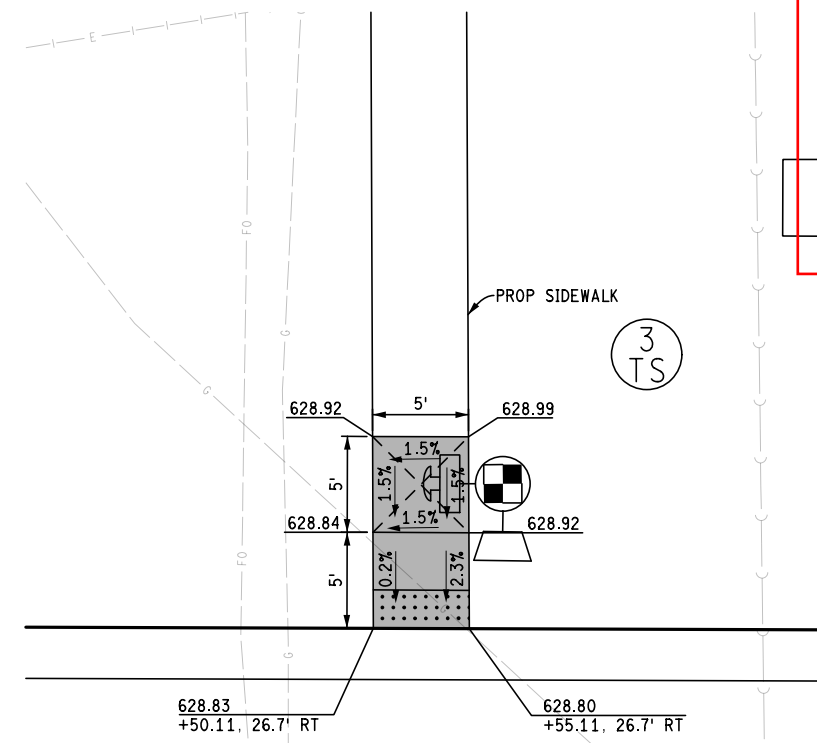
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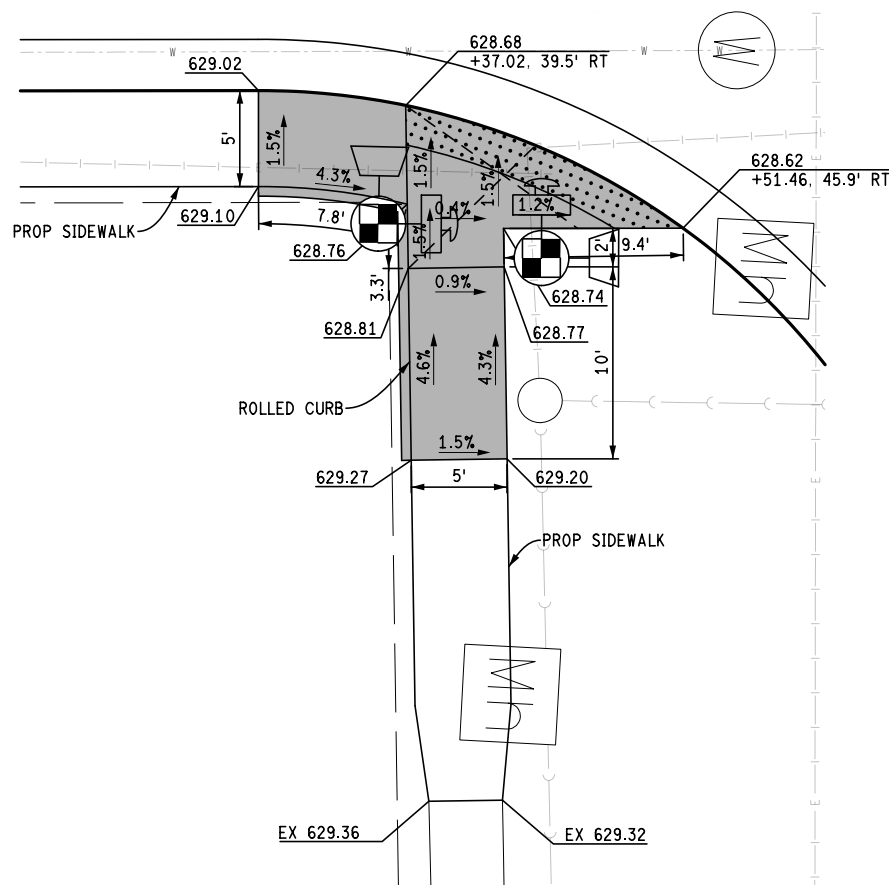
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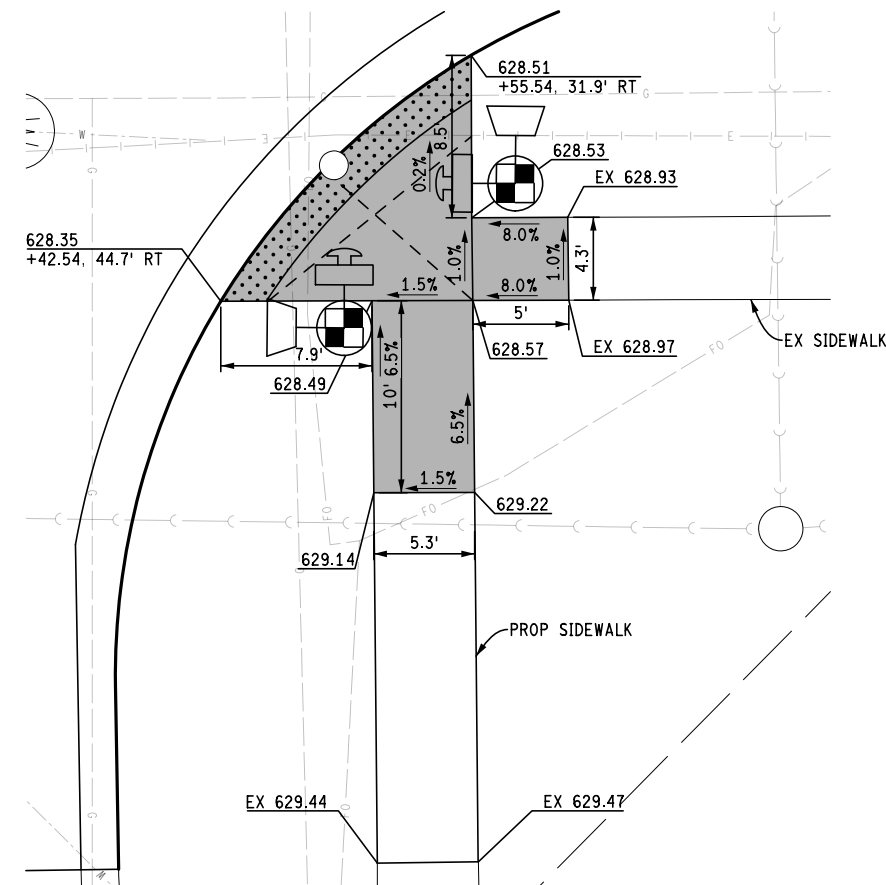
SIDEWALK RAMP DETAIL - SW QUADRANT






SIDEWALK RAMP DETAIL - NW QUADRANT



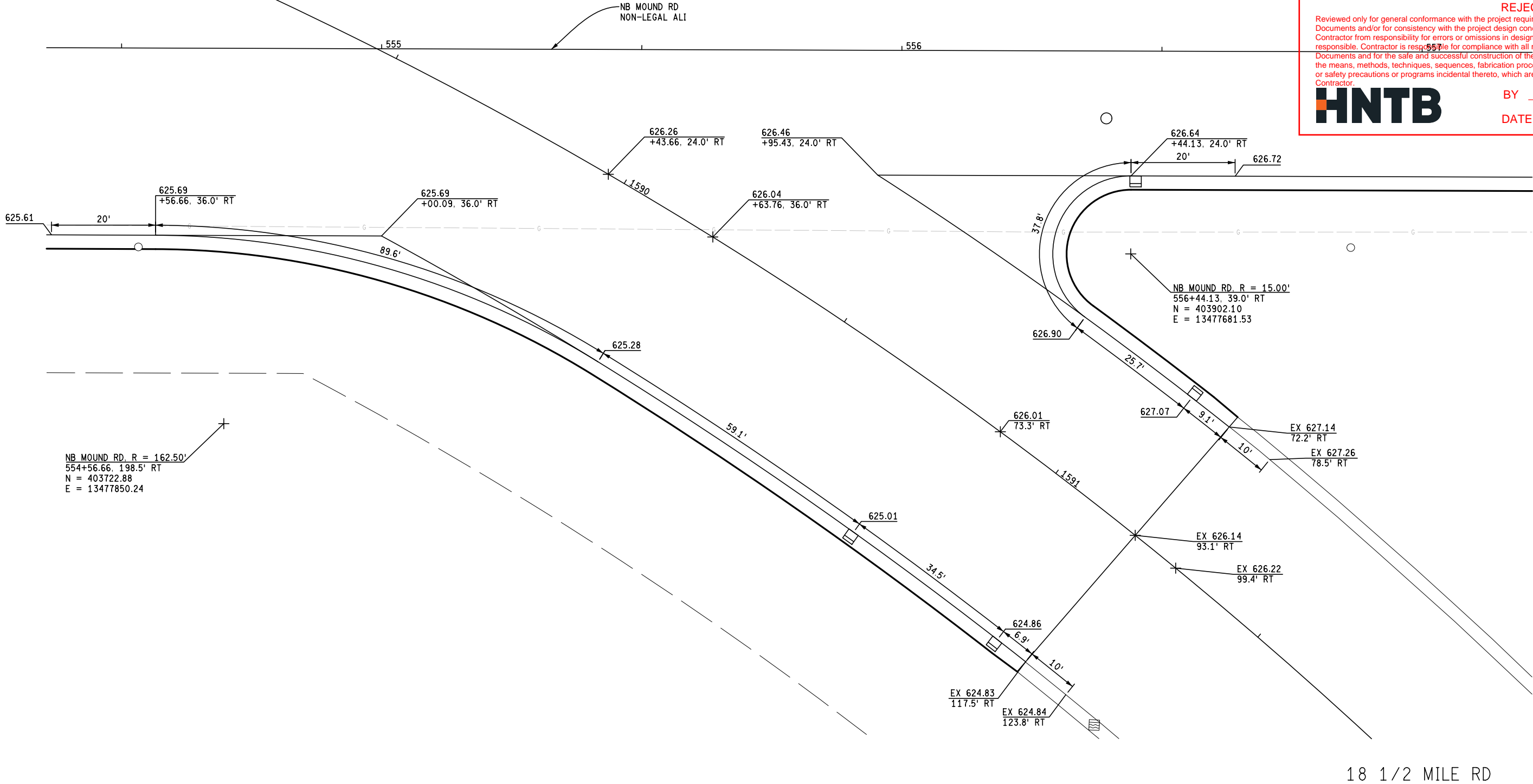
SIDEWALK RAMP DETAIL - SE QUADRANT



SIDEWALK RAMP DETAIL - NE QUADRANT

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								  Department of Roads	 0 10 HORIZ. (FT)		DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION				DESIGN UNIT: xxx	JN: 207178A	NB MOUND & 18 MILE RD		MOUND DET GRD 41	SECT 1
											FILE: 207178_N_Mound_DTG_NB_08A_18_15.dwg	INFR50000				73

NB MOUND RD



Innovate Mound Project

REVIEW

APPROVED ☐

APPROVED AS NOTED ☐

ACCEPTED ☒

ACCEPTED AS NOTED ☐

AMEND AND RESUBMIT ☐

REJECTED - SEE REMARKS ☐

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HNTB

BY *Stu G. [Signature]*

DATE 02/17/2022

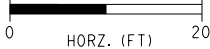
NB MOUND RD

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

AECOM



Department of Roads



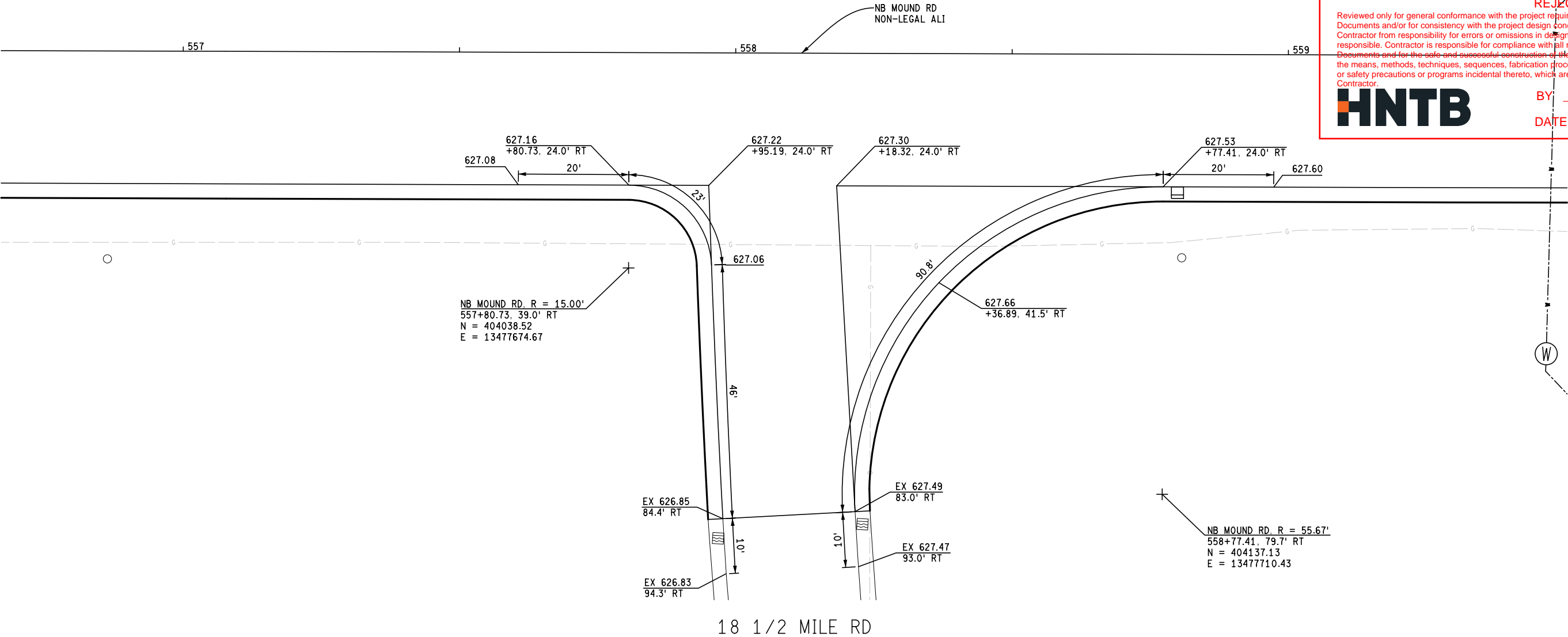
FILE: 207178_N_Mound_DTG_NB_09_18_18.dwg

DATE: 01/31/22
DESIGN UNIT: XXX
DISC: MMB, GMB

CS: INFR50000
JN: 207178A

INTERSECTION DETAIL GRADES		DRAWING	SHEET
NB MOUND & 18 1/2 MILE RD		MOUND DETGRD	SECT 1
		42	74

NB MOUND RD



Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT

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HNTB

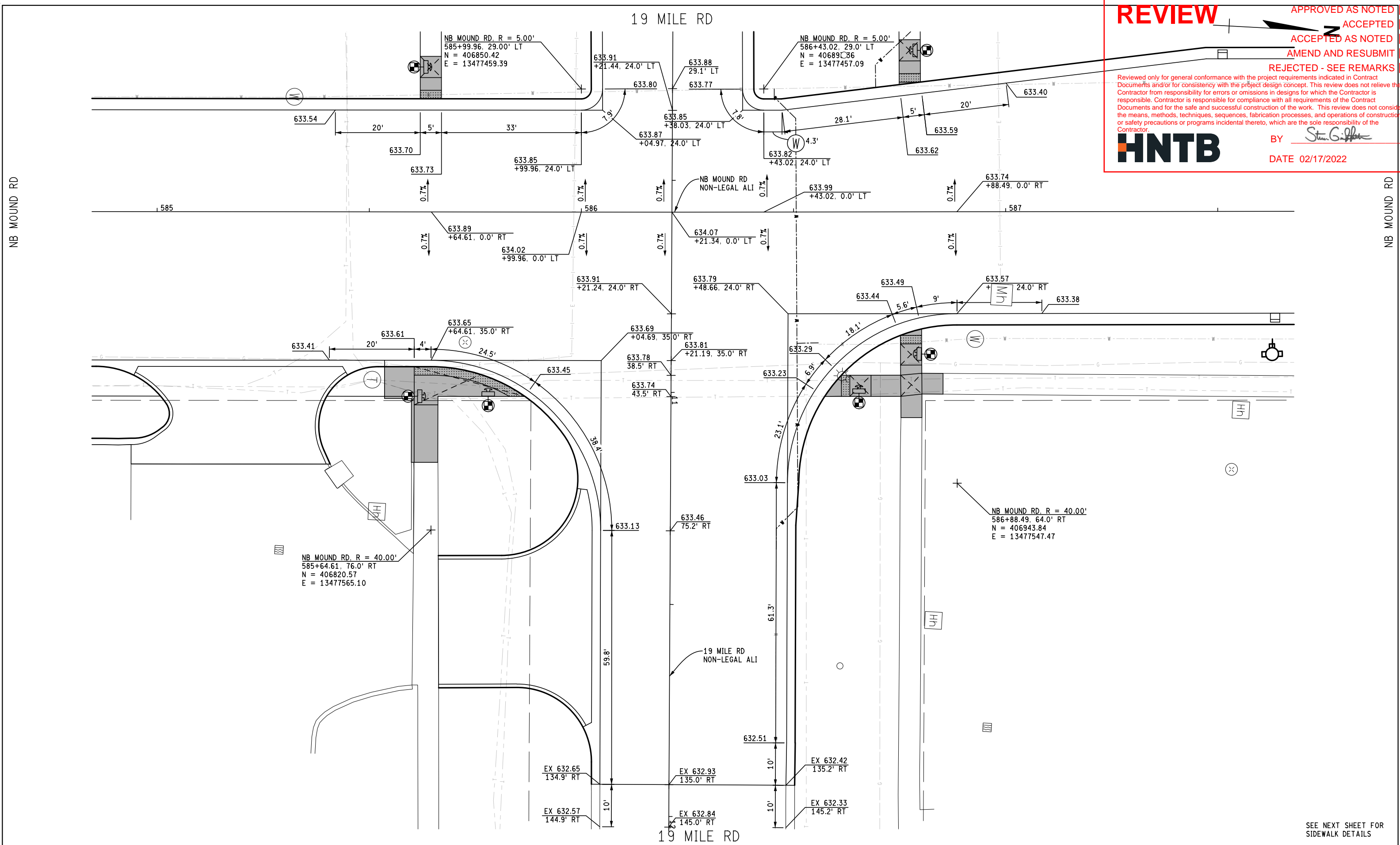
BY *Stu G. [Signature]*


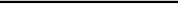
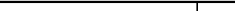
DATE 02/17/2022

NB MOUND RD

NB MOUND RD

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								<div><div>AECOM</div><div><div>STATE OF MICHIGAN</div><div>Department of Roads</div></div></div>	<div><div>0</div><div>HORZ. (FT)</div><div>20</div></div>	FILE: 207178_N_Mound_DTG_NB_09A_18	DATE: 01/31/22	CS: INFR50000	JN: 207178A	INTERSECTION DETAIL GRADES	DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION									
NB MOUND & 18 1/2 MILE RD												MOUND DETGRD	SECT 1			
												43	75			



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)												DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING	SHEET	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION					DESIGN UNIT: XXX	JN: 207178A		NB MOUND & 19 MILE RD	MOUND DETGRD 44	SECT 1 76
											FILE: 207178_N_Mound_DTG_NB_10_19_Mile_Comb						

Innovate Mound Project

REVIEW

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 Contractor.

HNTB

BY 

DATE 02/17/2022

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:)								INTERSECTION DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	NB MOUND & 19 MILE RD			
										MOUND DETGRD	SECT 1
										45	77

AECOM

Department of Roads

FILE: 207178_N_Mound_DTG_NB_10A_19.MXD

DATE: 01/31/22
DESIGN UNIT: XXX

CS: INFR50000
JN: 207178A

INTERSECTION DETAIL GRADES
NB MOUND & 19 MILE RD

DRAWING
MOUND DETGRD

SHEET
SECT 1

NB MOUND RD

Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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HNTB

BY *Stu G. [Signature]*

DATE 02/17/2022

SIDEWALK RAMP DETAIL - SE QUADRANT
NOT TO SCALE

SIDEWALK RAMP DETAIL - NE QUADRANT
NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)									FILE: 207178_N_Mound_DTG_NB_11_Burroughs Ave	DATE: 01/31/22 DESIGN UNIT: XXX	CS: INFR50000 JN: 207178A	INTERSECTION DETAIL GRADES NB MOUND & BURROUGHS AVE	DRAWING MOUND DETGRD 46	SHEET SECT 1 78		
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE										AUTH	DESCRIPTION

NB MOUND RD

Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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HNTB

BY *Stu G. [Signature]*

DATE 02/17/2022

NB MOUND RD

APPROVED

APPROVED AS NOTED

ACCEPTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

SIDEWALK RAMP DETAIL - SE QUADRANT
NOT TO SCALE

SIDEWALK RAMP DETAIL - NE QUADRANT
NOT TO SCALE

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

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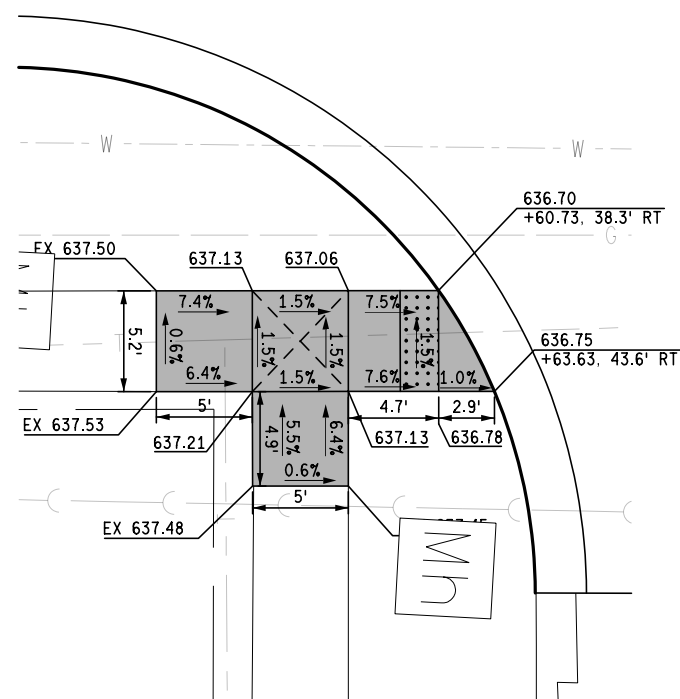
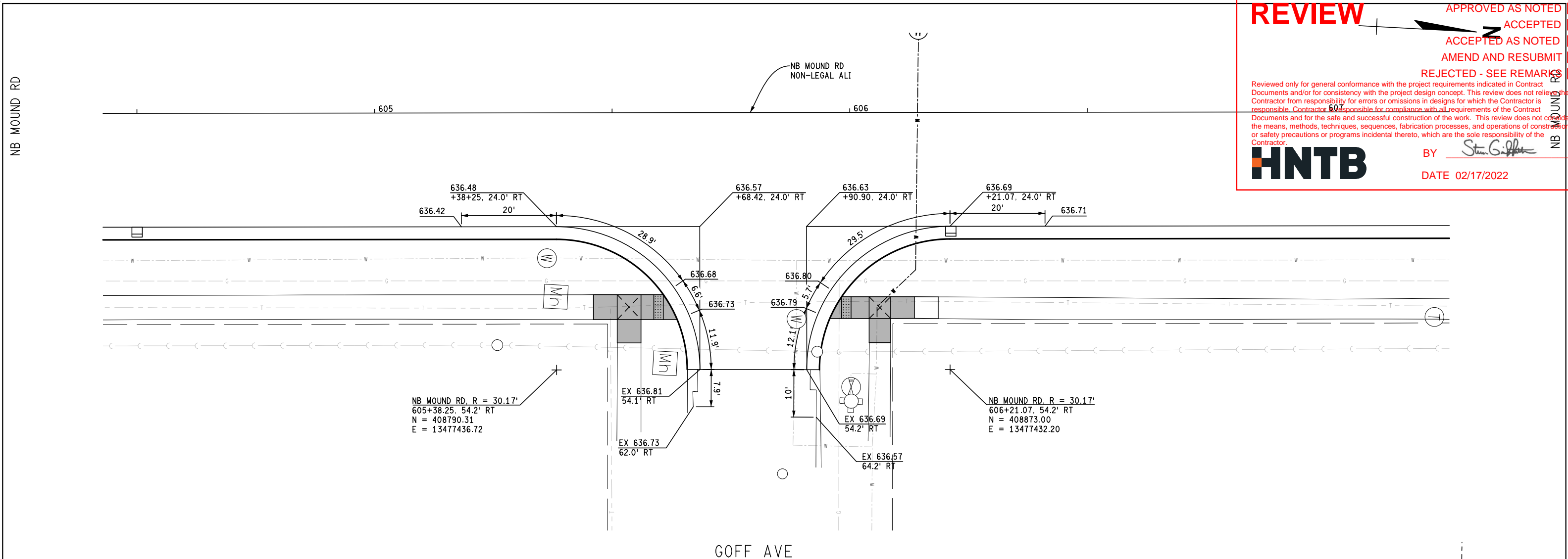
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DESIGN UNIT: XXX

CS: INFR50000
JN: 207178A

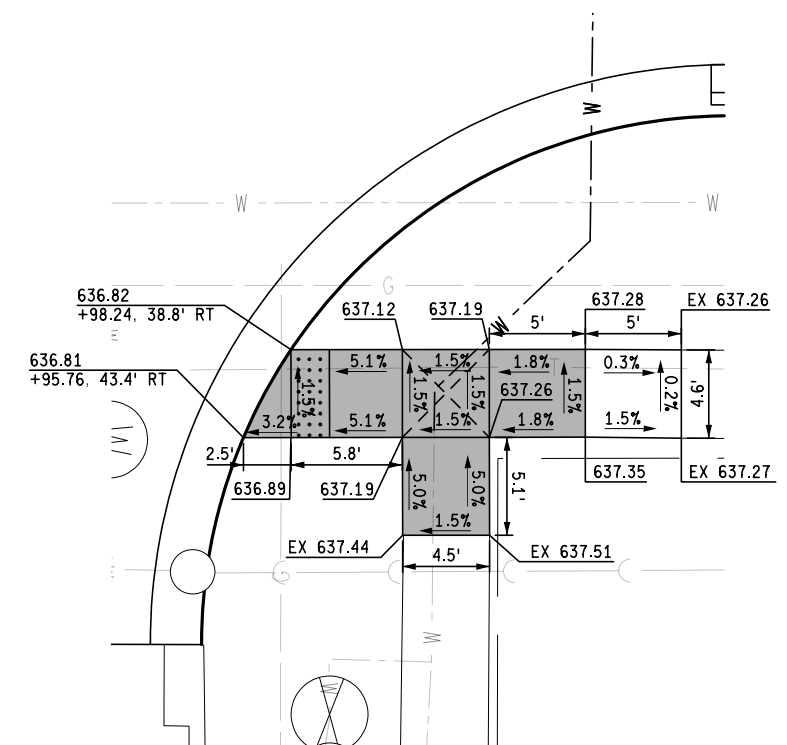
INTERSECTION DETAIL GRADES
NB MOUND & COTTER AVE

DRAWING
MOUND
DETGRD
47




SHEET
SECT 1
79



SIDEWALK RAMP DETAIL – SE QUADRANT
NOT TO SCALE



SIDEWALK RAMP DETAIL - NE QUADRANT
NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								  Department of Roads	 0 20 HORZ. (FT)	DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: XXX	JN: 207178A	NB MOUND & GOFF AVE		MOUND DET GRD	SECT 1
														48	80
										FILE: 207178_N_Mound_DTG_NB_13_Goff_156	MACOMB				

NB MOUND RD

Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED


ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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HNTB

BY 

DATE 02/17/2022

SIDEWALK RAMP DETAIL - SE QUADRANT
NOT TO SCALE

SIDEWALK RAMP DETAIL - NE QUADRANT
NOT TO SCALE

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

AECOM

Department of Roads

FILE: 207178_N_Mound_DTG_NB_14_StacyAve.dwg

DATE: 01/31/22
DESIGN UNIT: XXX

CS: INFR50000
JN: 207178A

INTERSECTION DETAIL GRADES
NB MOUND & STACY AVE

DRAWING	SHEET
MOUND DETGRD	SECT 1
49	81

NB MOUND RD

Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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HNTB

BY *Stu G. [Signature]*

DATE 02/17/2022

NB MOUND RD

SIDEWALK RAMP DETAIL - SE QUADRANT
NOT TO SCALE

SIDEWALK RAMP DETAIL - NE QUADRANT
NOT TO SCALE

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

AECOM

Department of Roads

FILE: 207178_N_Mound_DTG_NB_15_Higgins Ave MACOMB

DATE: 01/31/22
DESIGN UNIT: XXX

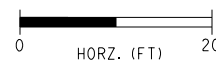
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JN: 207178A

INTERSECTION DETAIL GRADES
NB MOUND & HIGGINS AVE

DRAWING	SHEET
MOUND DETGRD 50	82



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



FILE: 207178_N_Mound_DTG_NB_16_Poplar_Spr MACOME

DATE: 01/31/22
DESIGN UNIT: XXX

CS: INFR50000
JN: 207178A

INTERSECTION DETAIL GRADES
NB MOUND & POPLAR AVE

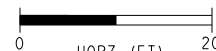
DRAWING	SHEET
FOUND DETGRD	SECT 1
51	83



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



Department of Roads



FILE: 207178_N_Mound_DTG_NB_17_Catalog.TSG.com

DESIGN UNIT: XXX

JN: 207178A

NB MOUND & CATALPA AVE

MOUND	SECT 1
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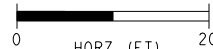
DET GRD	84
52	



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



Department of Roads



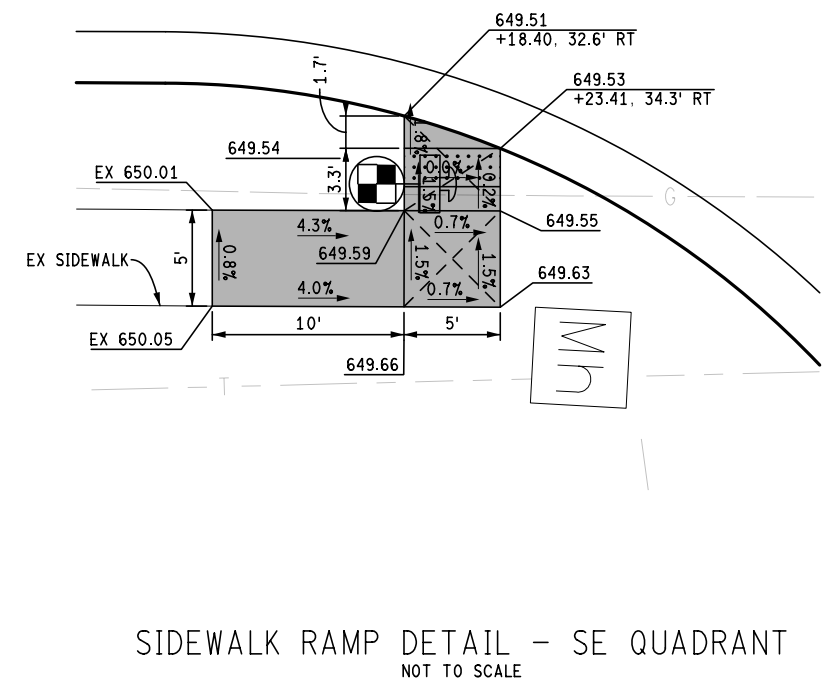
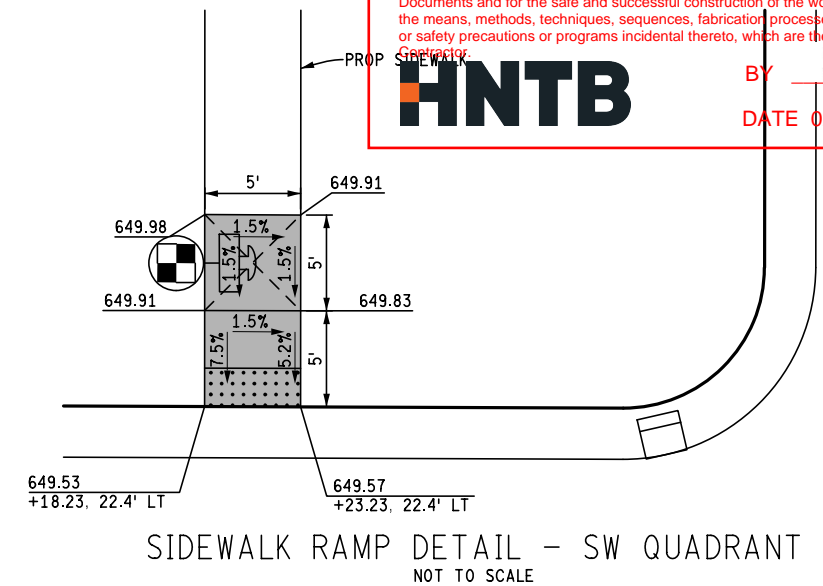
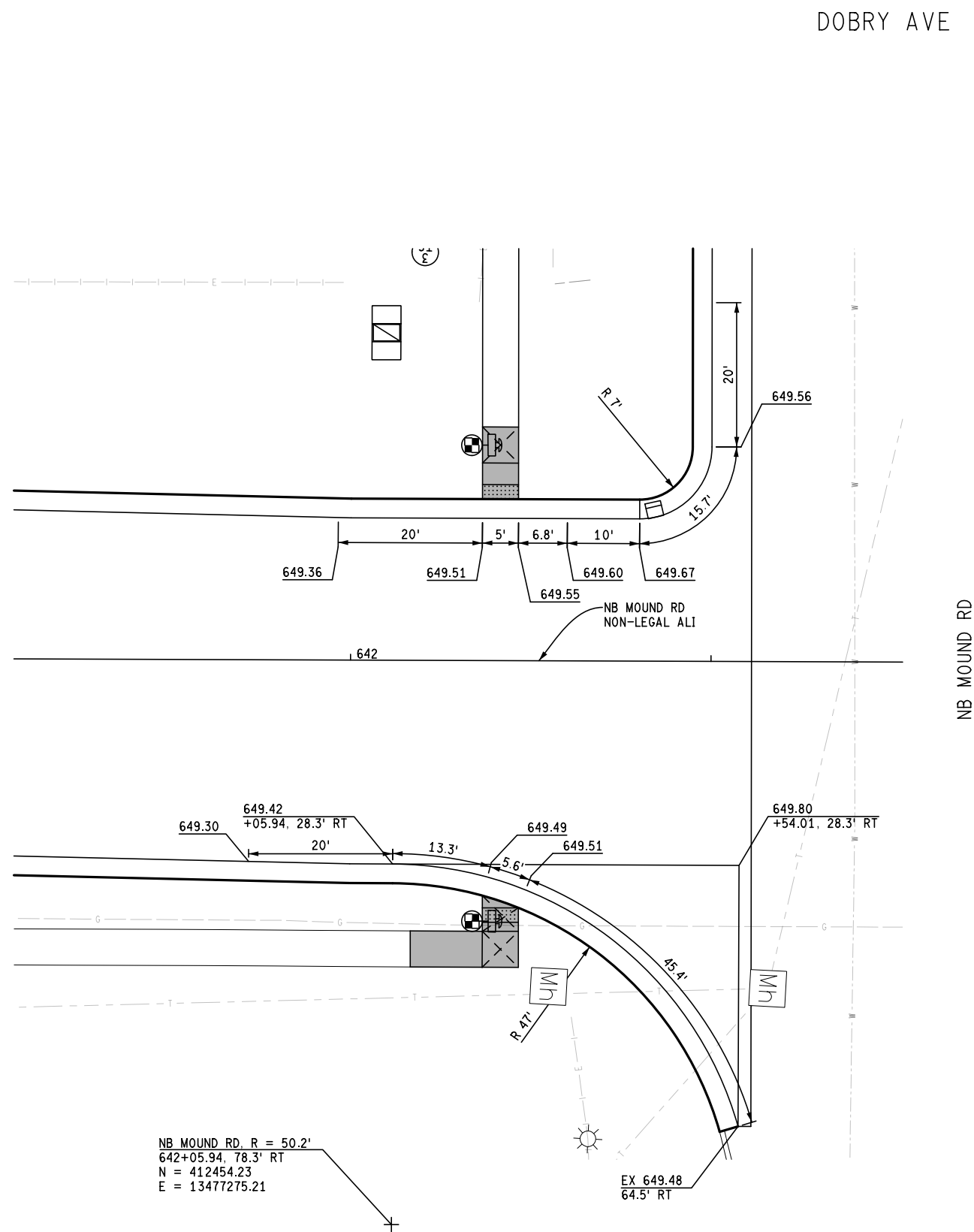
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DESIGN UNIT: XX

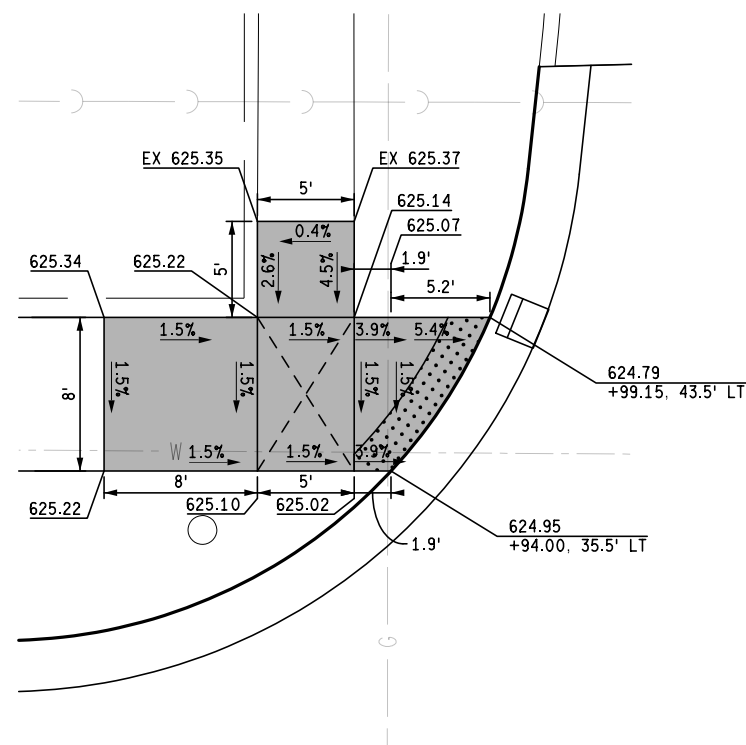
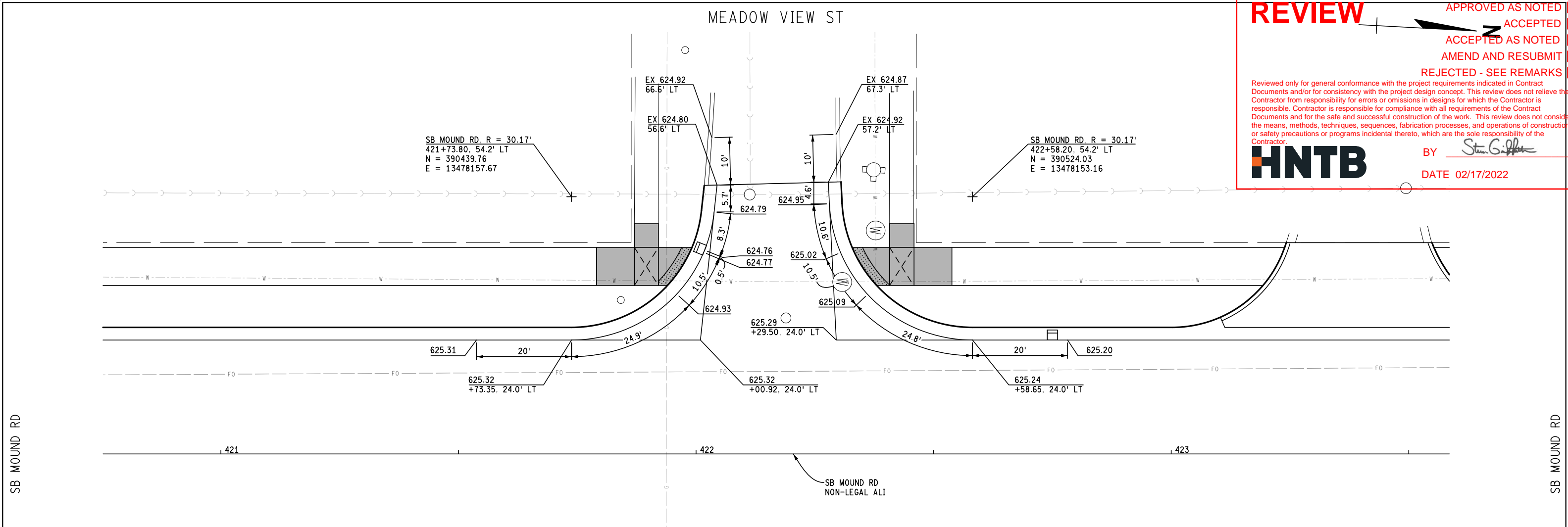
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INTERSECTION DETAIL GRADES
NB MOUND & WALDO AVE

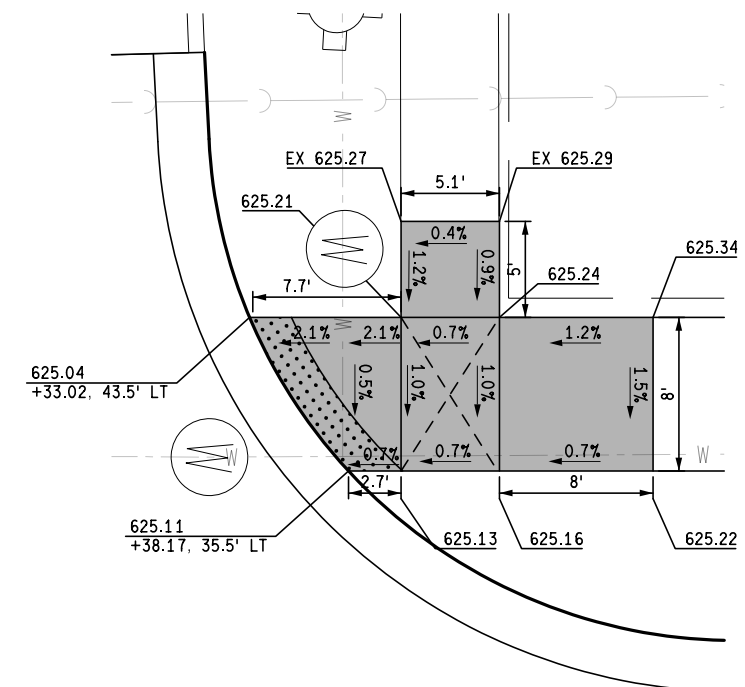
DRAWING	SHEET
MOUND DETGRD 53	SECT 1 85






FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								  Department of Roads	 0 20 HORZ. (FT)	DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: XXX	JN: 207178A	NB MOUND & DOBRY DR	MOUND DET GRD	SECT 1
													54	86
										FILE: 207178_N_Mound.DTG_NB_19_Dobry.Dgn	TCG MACOMB			



SIDEWALK RAMP DETAIL - SW QUADRANT
NOT TO SCALE



SIDEWALK RAMP DETAIL - NW QUADRANT
NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								  Department of Roads	 0 20 HORZ. (FT)	DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: XXX	JN: 207178A	SB MOUND & MEADOW VIEW ST	MOUND DET GRD	SECT 1
													55	87
										FILE: 207178_N_Mound_DTG_SB_01_Meadow View.dwg				

Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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HNTB

SB MOUND RD, R = 4
427+90.04, 76.0' LT
N = 391053.95
E = 13478102.96

02/17/2022

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										<div><div>AECOM</div><div><div>Department of Roads</div></div></div>		<div>0 20 HORZ. (FT)</div>		<div>DATE: 01/31/22 DESIGN UNIT: XXX</div>		<div>CS: INFR50000 JN: 207178A</div>		<div>INTERSECTION DETAIL GRADES SB MOUND & 16 MILE RD</div>		<div>DRAWING</div> <div>SHEET</div>									
<table><tr><td>NO.</td><td>DATE</td><td>AUTH</td><td>DESCRIPTION</td><td>NO.</td><td>DATE</td><td>AUTH</td><td>DESCRIPTION</td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>																				NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION		
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION																						

Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT

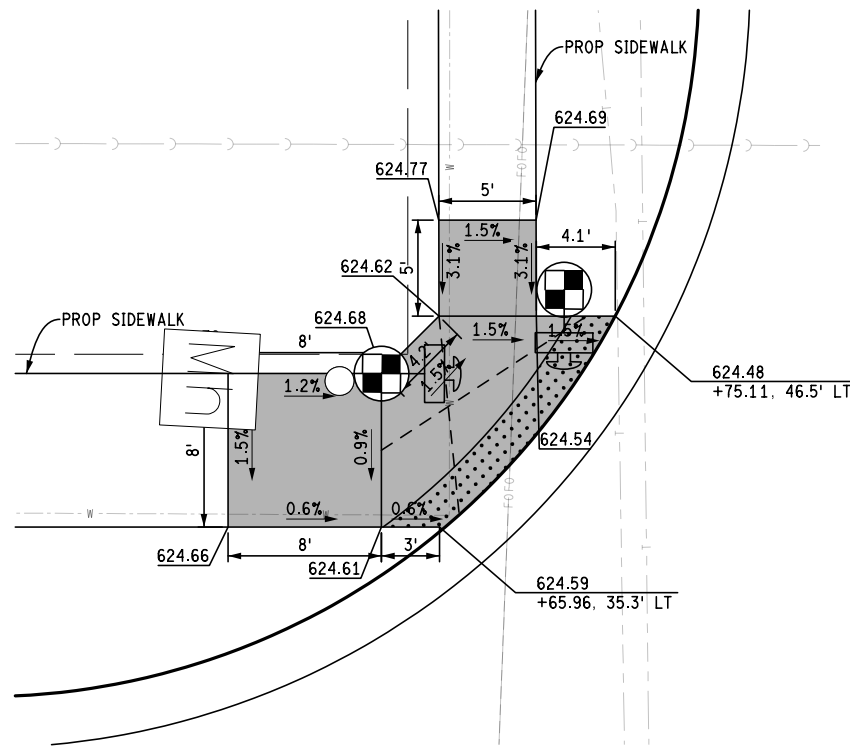
REJECTED - SEE REMARKS

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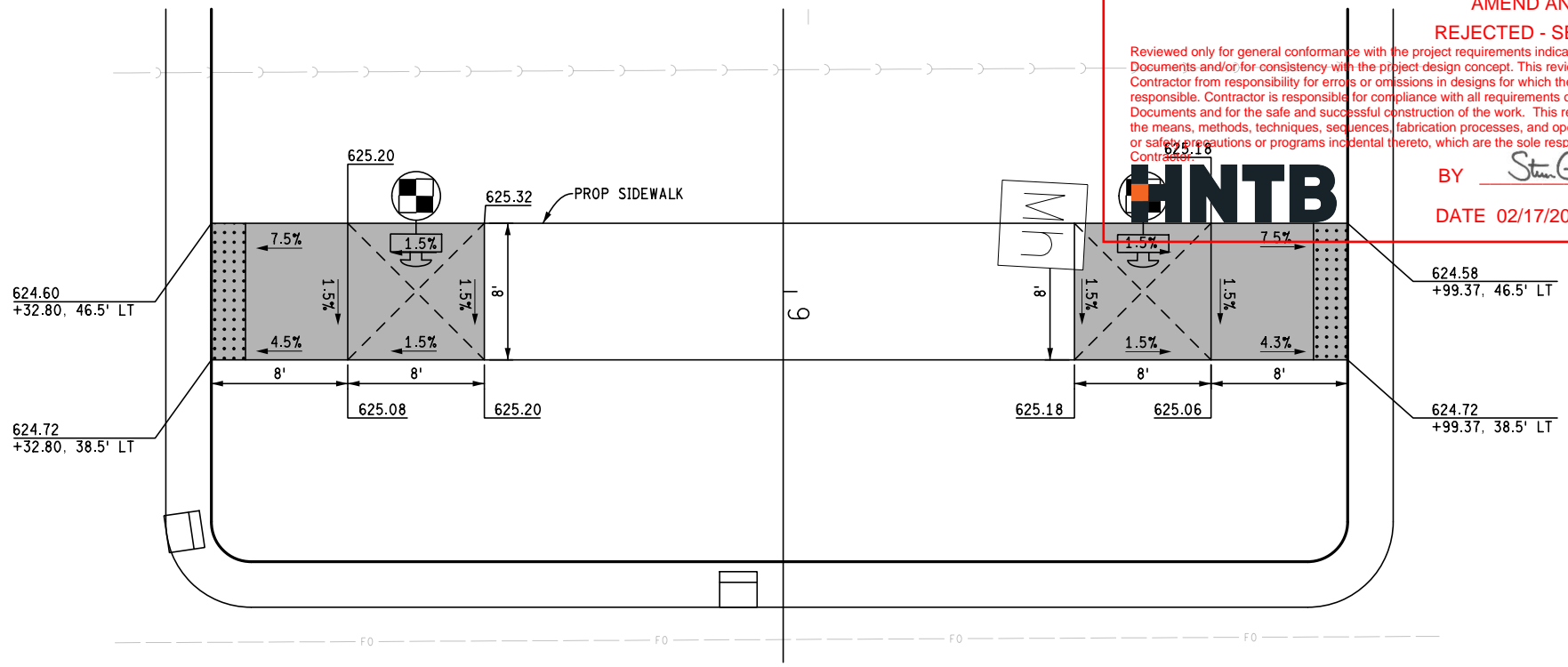
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BY *Stu G. [Signature]*

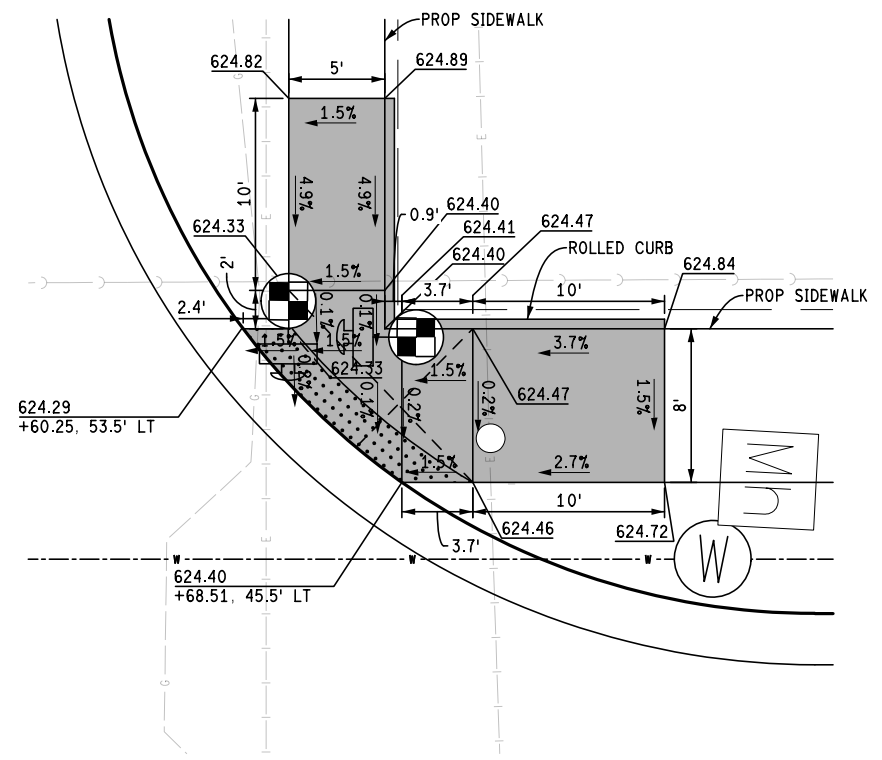
DATE 02/17/2022



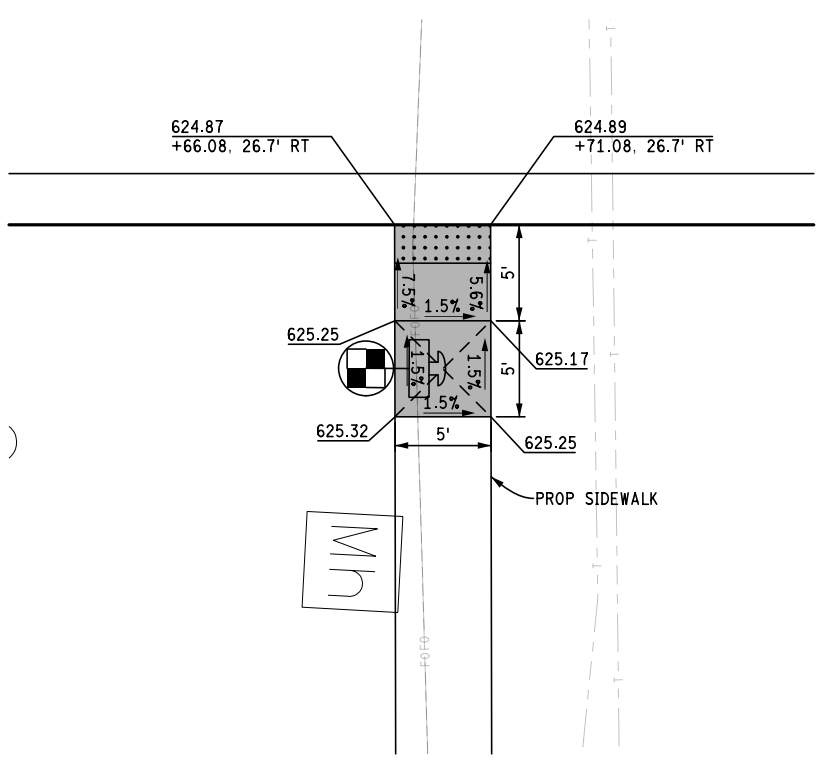
SIDEWALK RAMP DETAIL - SW QUADRANT



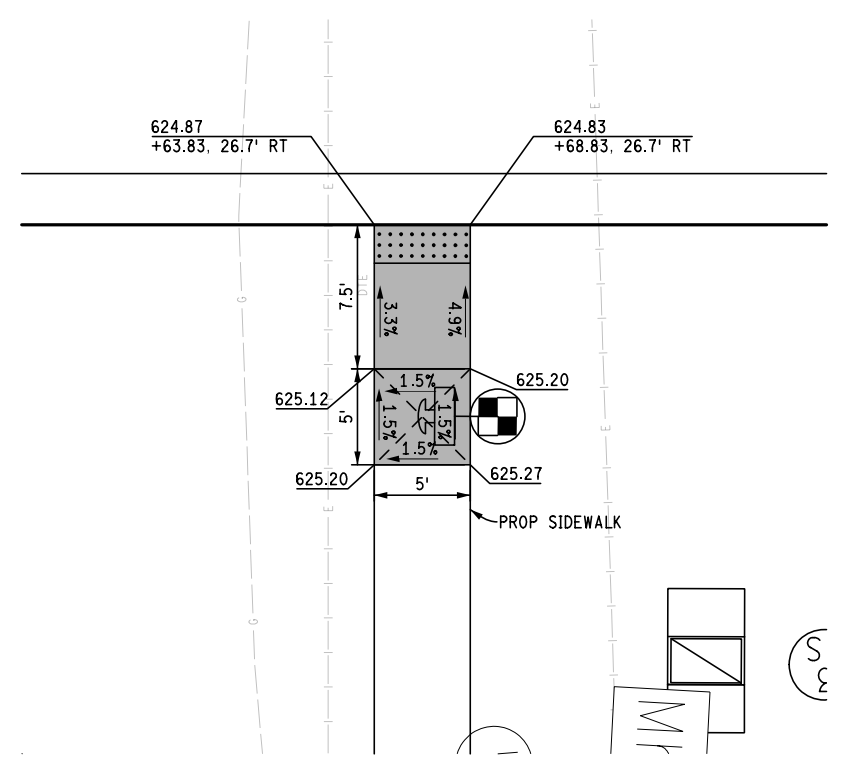
SIDEWALK RAMP DETAIL - CENTER QUADRANT



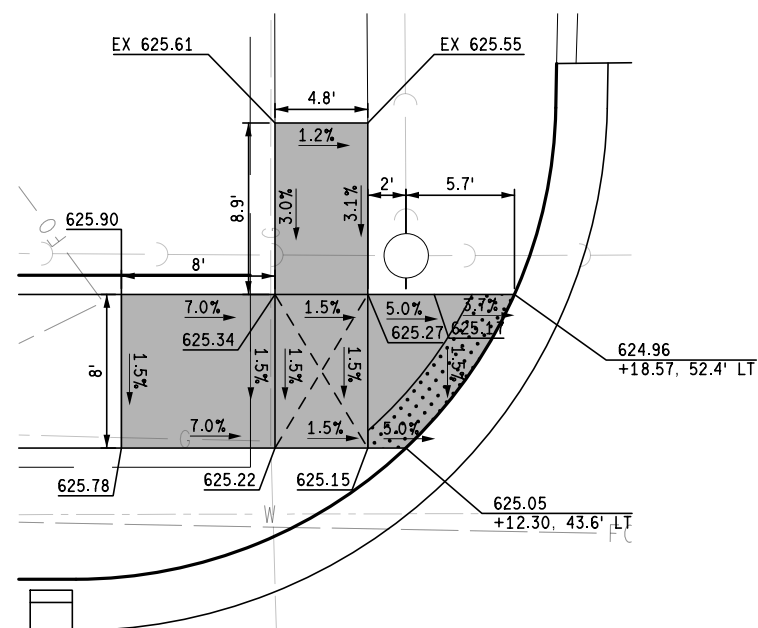
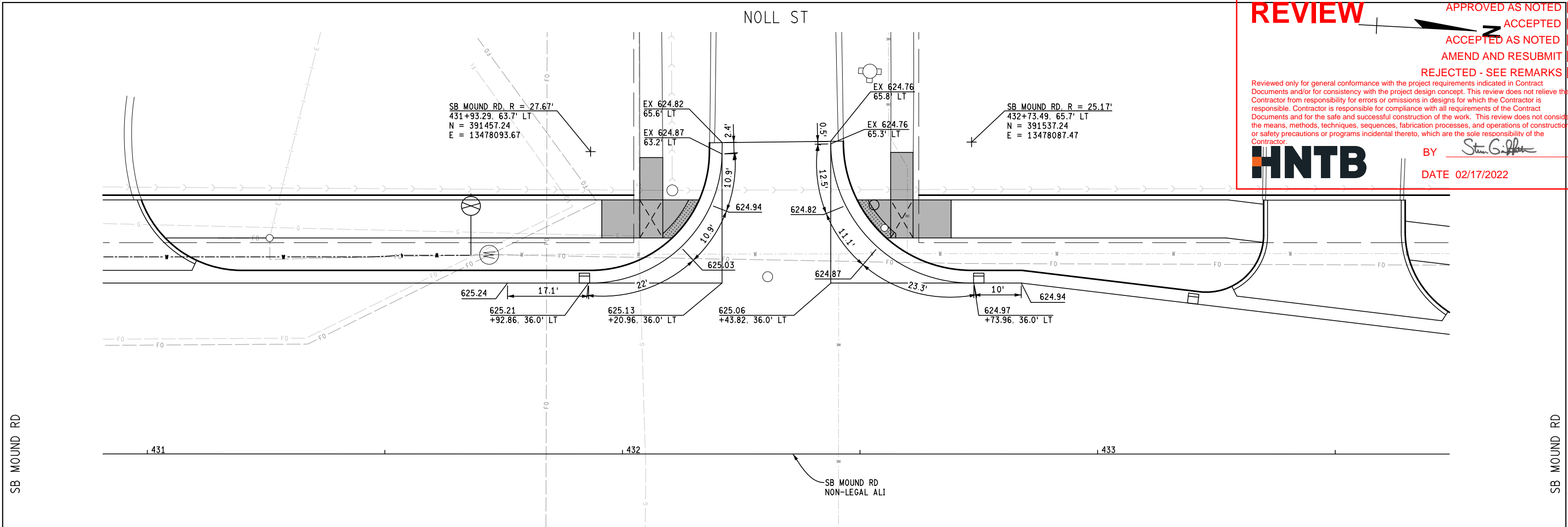
SIDEWALK RAMP DETAIL - NW QUADRANT



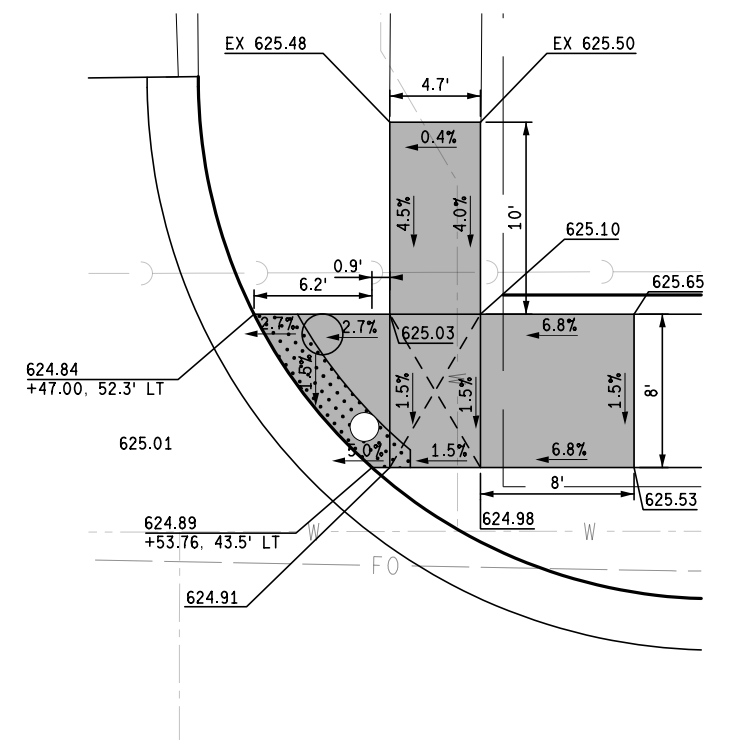
SIDEWALK RAMP DETAIL - SE QUADRANT






SIDEWALK RAMP DETAIL - NE QUADRANT

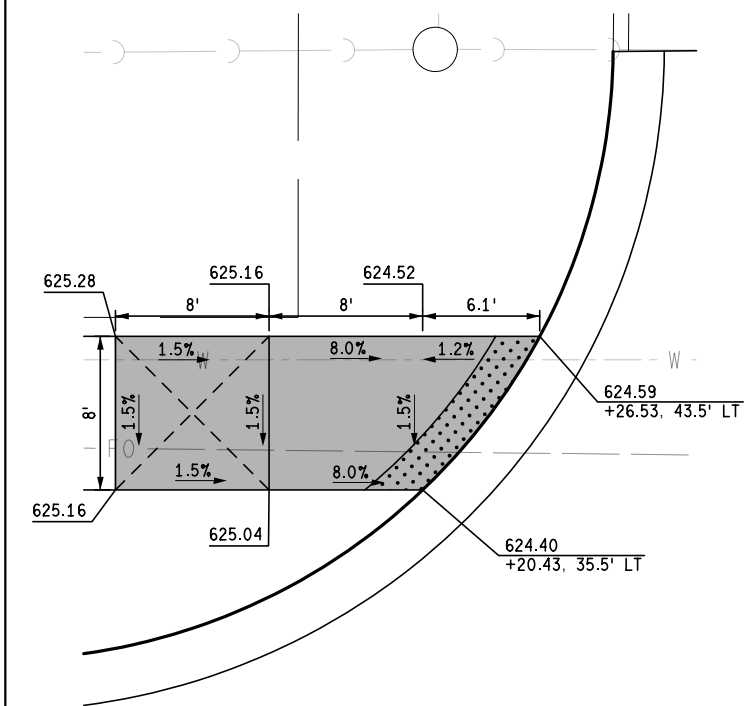
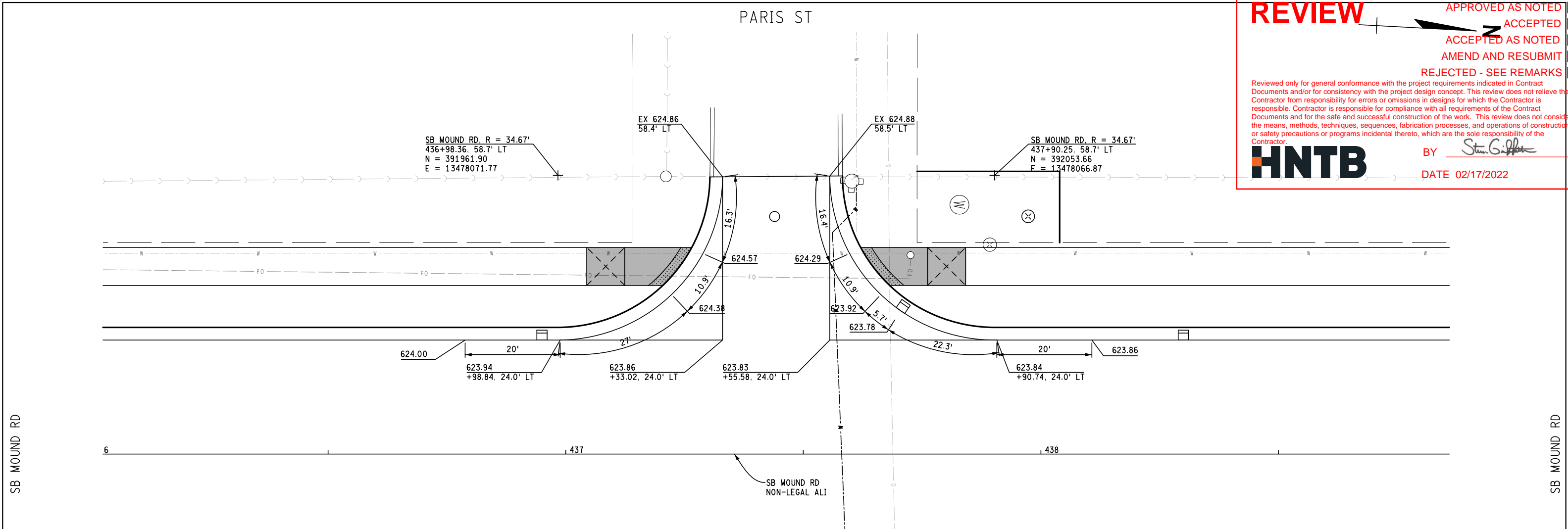


SIDEWALK RAMP DETAIL - SW QUADRANT
NOT TO SCALE

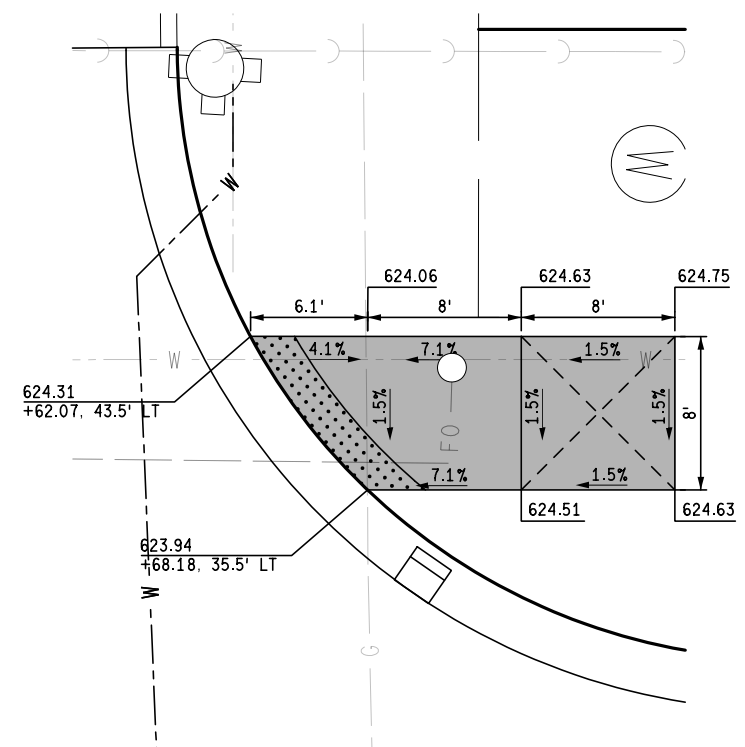


SIDEWALK RAMP DETAIL - NW QUADRANT
NOT TO SCALE





FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								  Department of Roads	 0 20 HORZ. (FT)	DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: XXX	JN: 207178A	SB MOUND & NOLL ST		MOUND DET GRD	SECT 1
														58	90
										FILE: 207178_N_Mound_DTG_SB_03_Noll.dwg	CS: MACOMB				

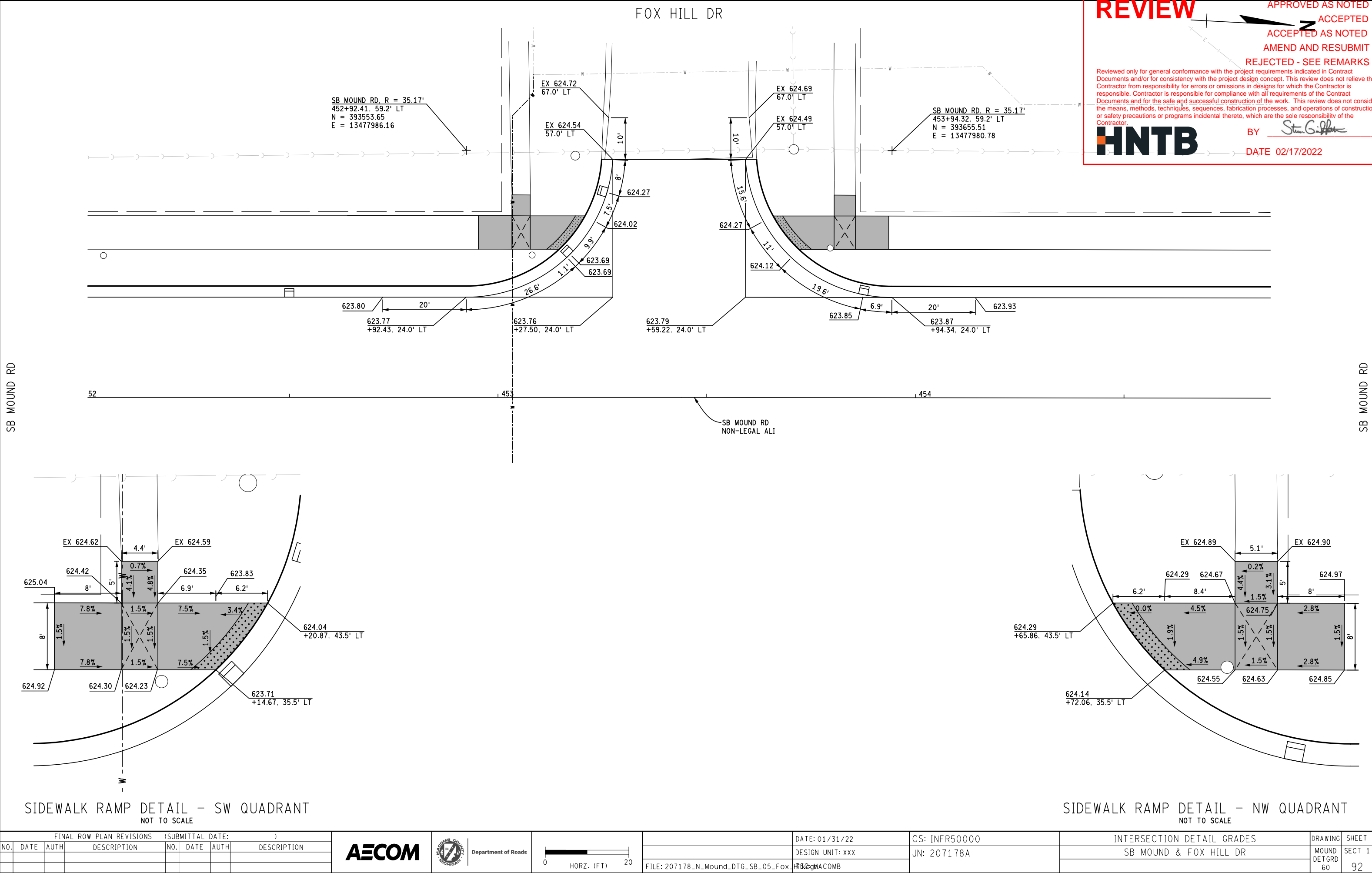


SIDEWALK RAMP DETAIL - SW QUADRANT
NOT TO SCALE



SIDEWALK RAMP DETAIL - NW QUADRANT
NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								  		DATE: 01/31/22		CS: INFR50000		INTERSECTION DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: xxx		JN: 207178A		SB MOUND & PARIS ST		MOUND DET GRD	SECT 1
										FILE: 207178_N_Mound_DTG_SB_04_Paris.Dgn		Tag: MACOMB				59	91



Innovate Mound Project

APPROVED

APPROVED AS NOTED

ACCEPTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

REVIEW

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HNTB

BY *Stu G. [Signature]*

DATE 02/17/2022

SIDEWALK RAMP DETAIL - SW QUADRANT
NOT TO SCALE

SIDEWALK RAMP DETAIL - NW QUADRANT
NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								INTERSECTION DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	SB MOUND & FOX HILL DR			
										MOUND DETGRD	SECT 1
										60	92

AECOM

INDIANA

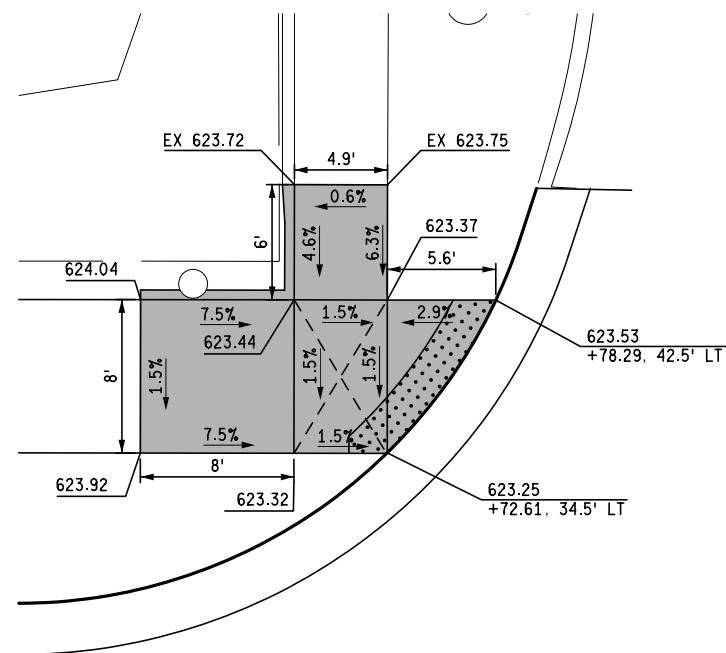
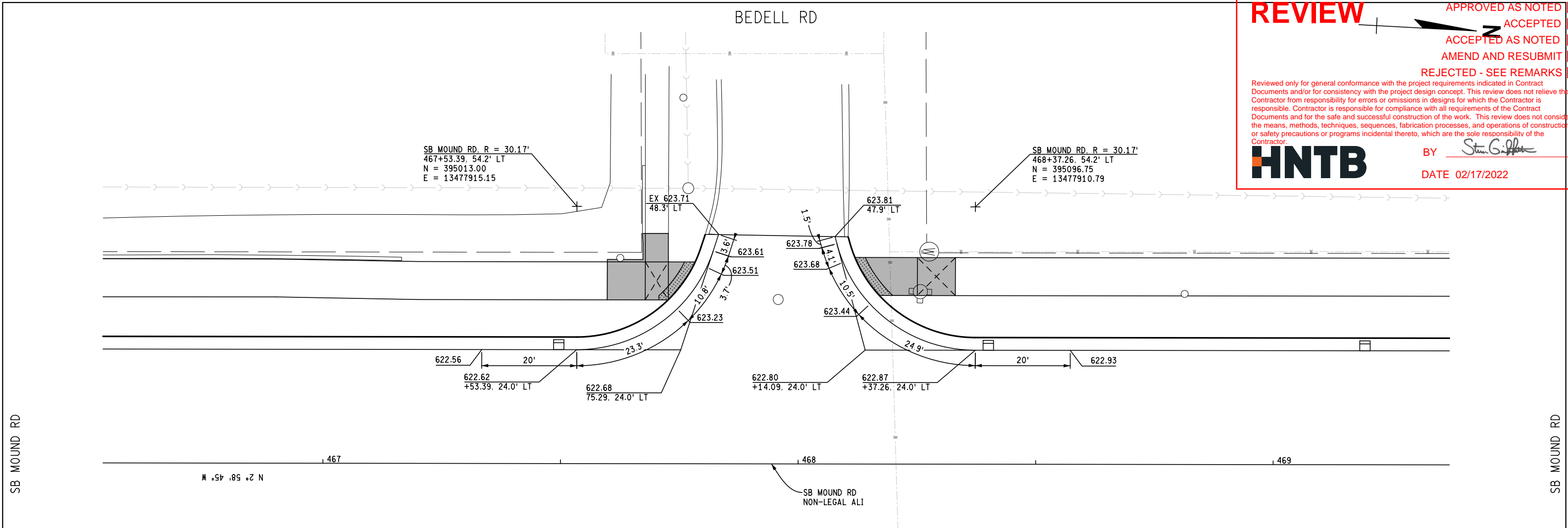
Department of Roads

0 20
HORZ. (FT)

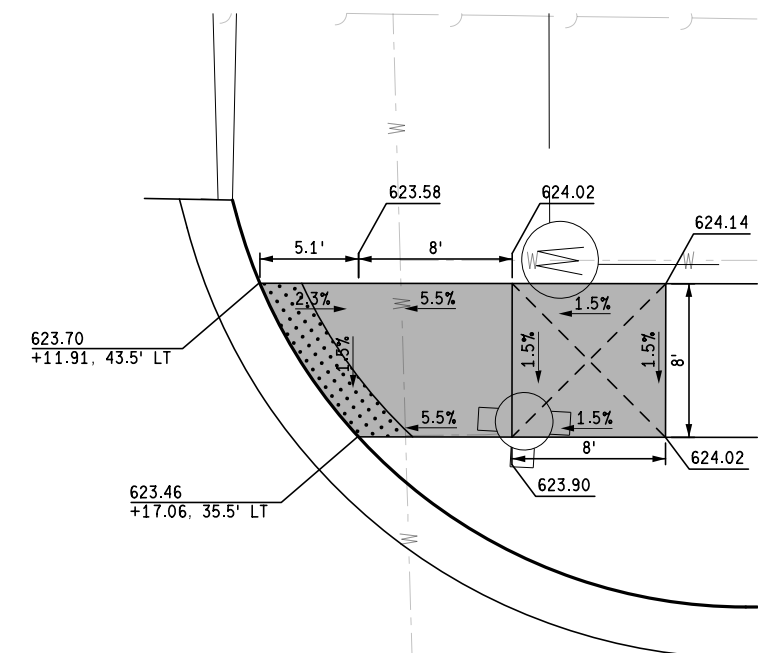
FILE: 207178_N_Mound_DTG_SB_05_Fox_Hill

DATE: 01/31/22
DESIGN UNIT: XXX
HNTB




CS: INFR50000
JN: 207178A



SIDEWALK RAMP DETAIL - SW QUADRANT
NOT TO SCALE



SIDEWALK RAMP DETAIL - NW QUADRANT
NOT TO SCALE


FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								 		DATE: 01/31/22		CS: INFR50000		INTERSECTION DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: xxx		JN: 207178A		SB MOUND & BEDELL RD		MOUND DET GRD	SECT 1
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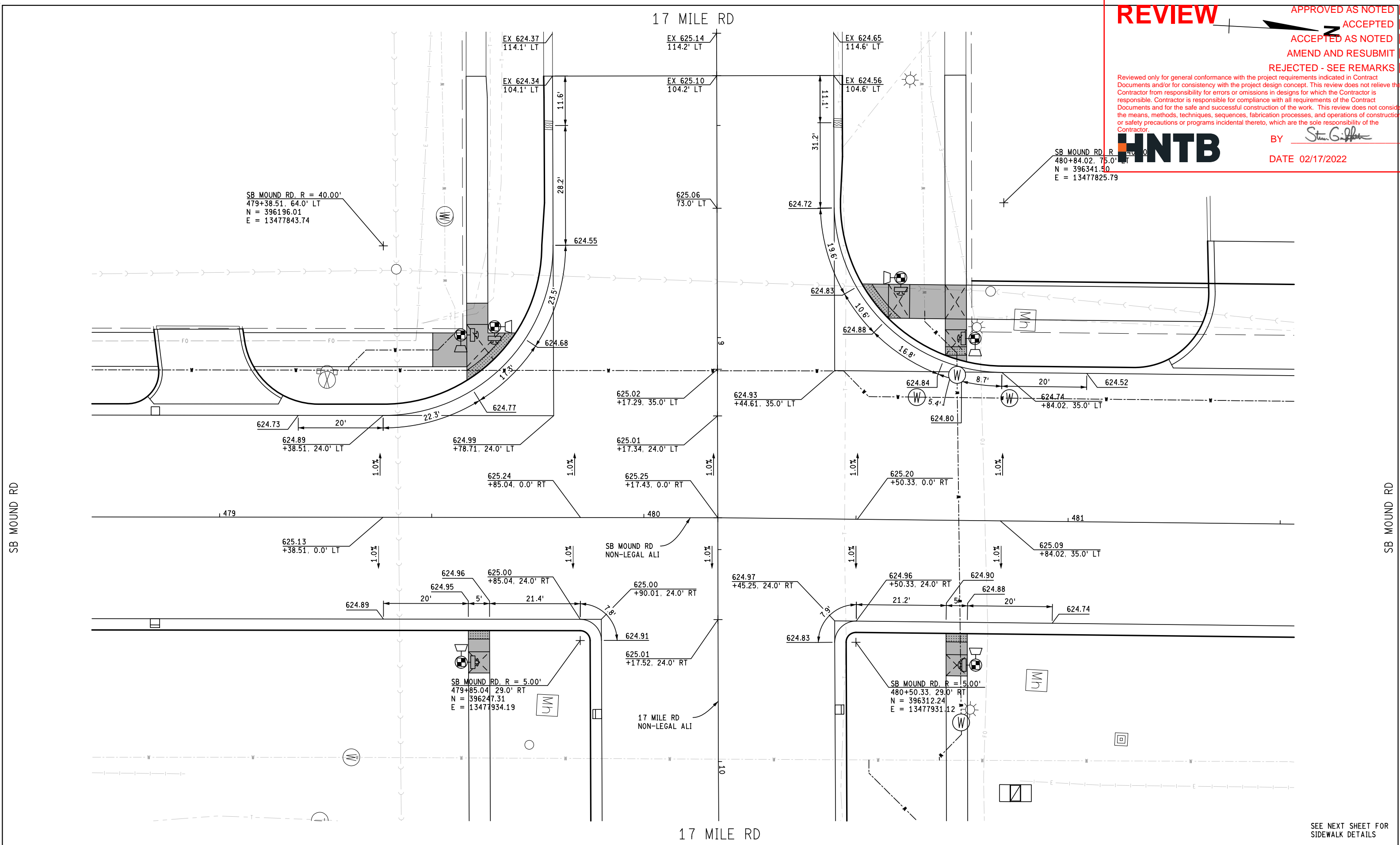
Innovate Mound Project



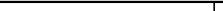
APPROVED ☐
REVIEW **REVIEW**
APPROVED AS NOTED ☐
ACCEPTED ☒
ACCEPTED AS NOTED ☐
AMEND AND RESUBMIT ☐
REJECTED - SEE REMARKS ☐

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HNTB

BY 
DATE 02/17/2022



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										Department of Roads			DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING	SHEET	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION						DESIGN UNIT: XXX	JN: 207178A		SB MOUND & 17 MILE RD	MOUND DETGRD 62	SECT 1 94

APPROVED AS NOTED ☐

ACCEPTED ☒

ACCEPTED AS NOTED ☐




AMEND AND RESUBMIT ☐REJECTED - SEE REMARKS ☐

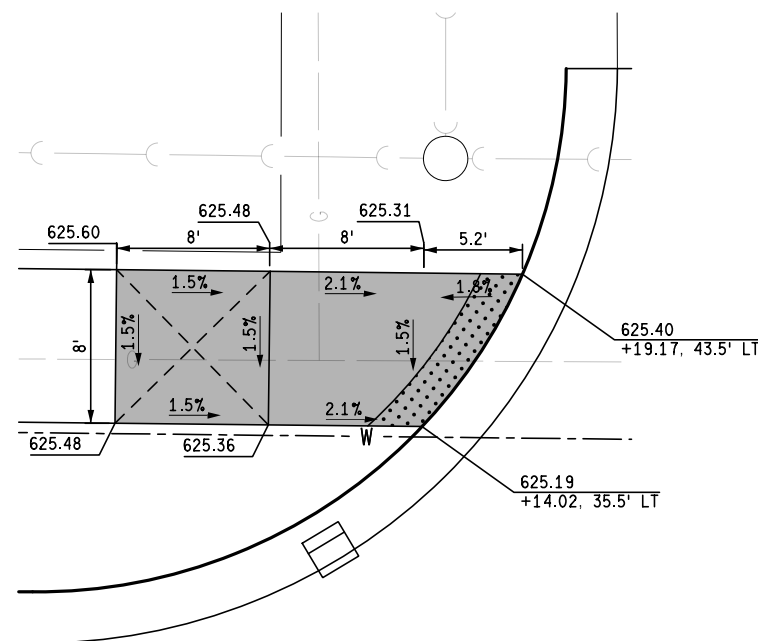
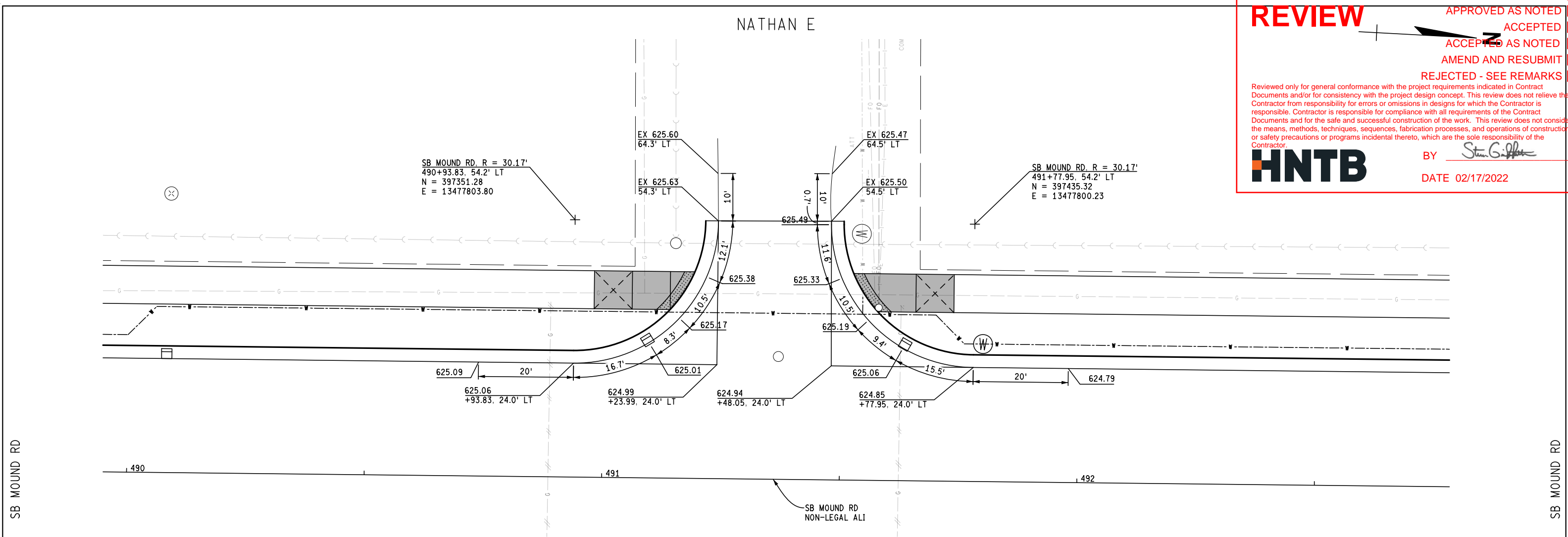
HNTB

BY Steven Gifford

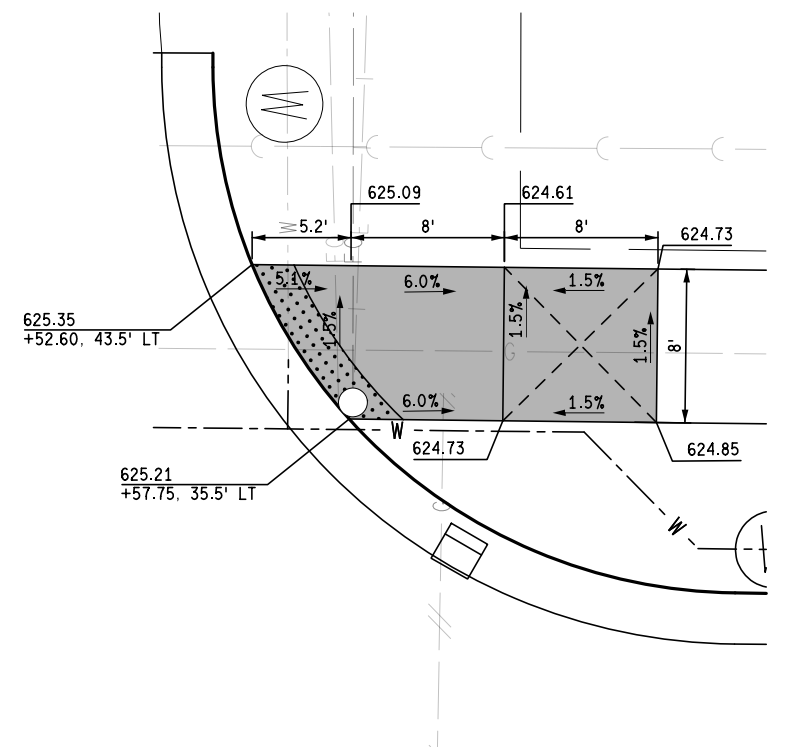
DATE 02/17/2022







FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								  Department of Roads	 0 10 HORZ. (FT)	DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: XXX	JN: 207178A	SB MOUND & 17 MILE RD		MOUND DET GRD	SECT 1
														63	95
										FILE: 207178_N_Mound-DTG-SB-07A_17.MXD	ISSUED BY: AECOM				



SIDEWALK RAMP DETAIL – SW QUADRANT
NOT TO SCALE



SIDEWALK RAMP DETAIL – NW QUADRANT
NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								  		DATE: 01/31/22		CS: INFR50000		INTERSECTION DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: XXX		JN: 207178A		SB MOUND & NATHAN EAST		MOUND DETGRD	SECT 1
										FILE: 207178_N_Mound.DTG-SB-08_Nathan East		MACOMB				64	96

Innovate Mound Project

REVIEW

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 Contractor.

HNTB

BY 



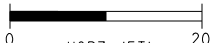
DATE 02/17/2022

SIDEWALK RAMP DETAIL - SW QUADRANT

NOT TO SCALE

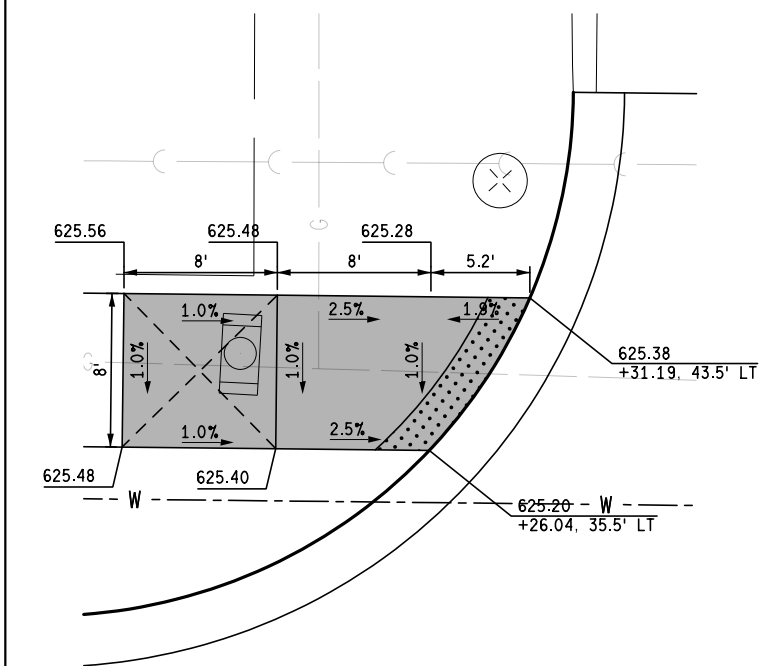
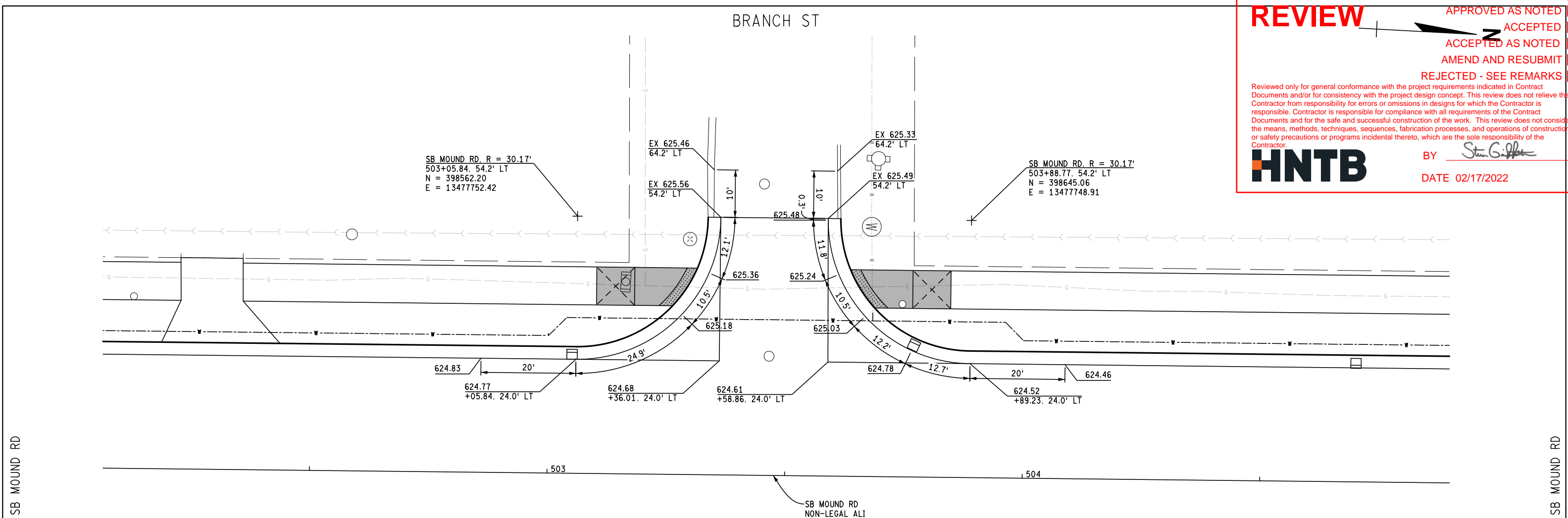
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NOT TO SCALE

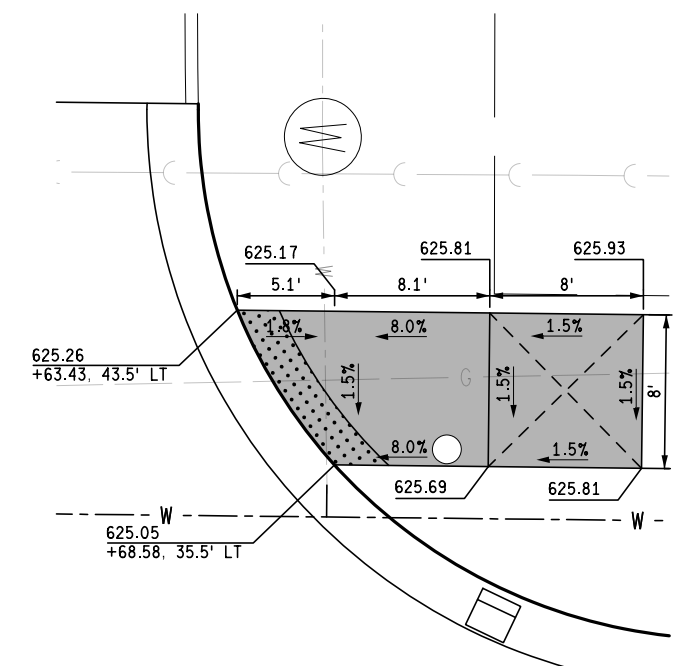
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NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION						DESIGN UNIT: XXX	JN: 207178A				MOUND DETGRD	SECT 1

65




97

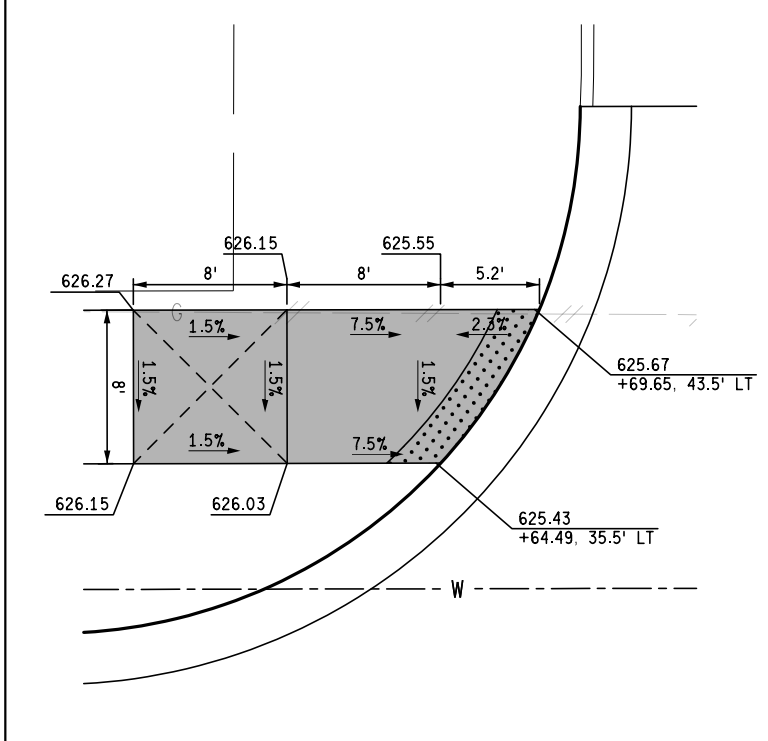
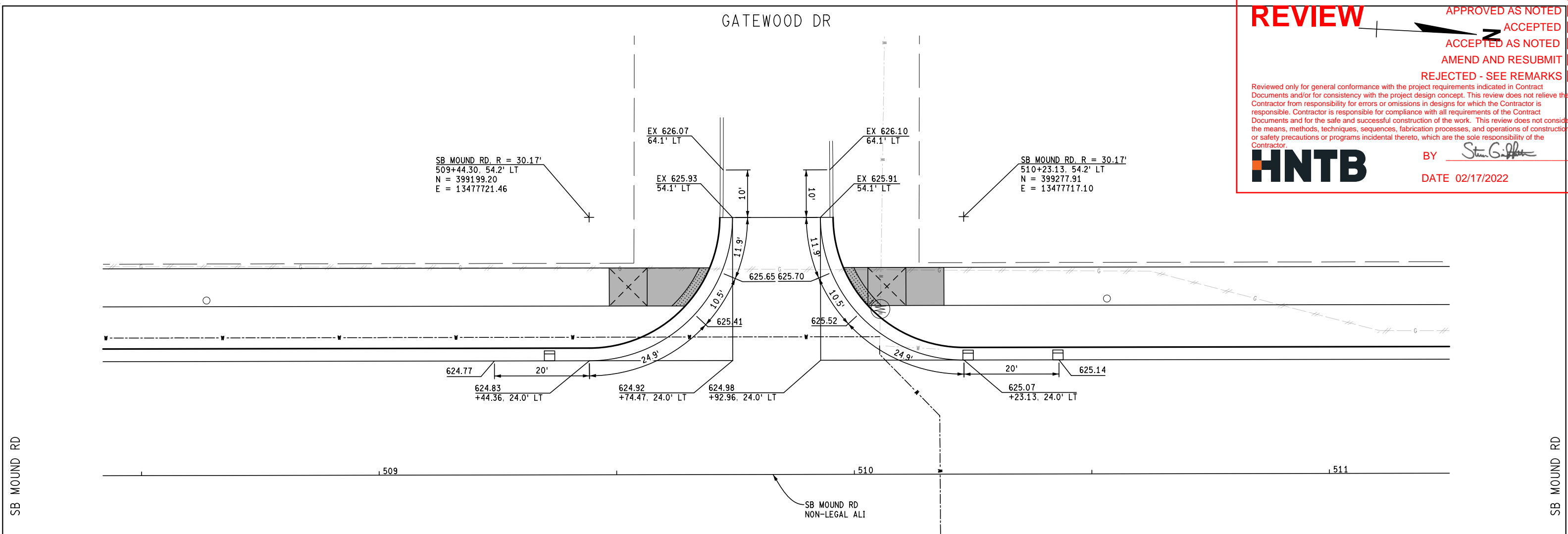


SIDEWALK RAMP DETAIL - SW QUADRANT
NOT TO SCALE

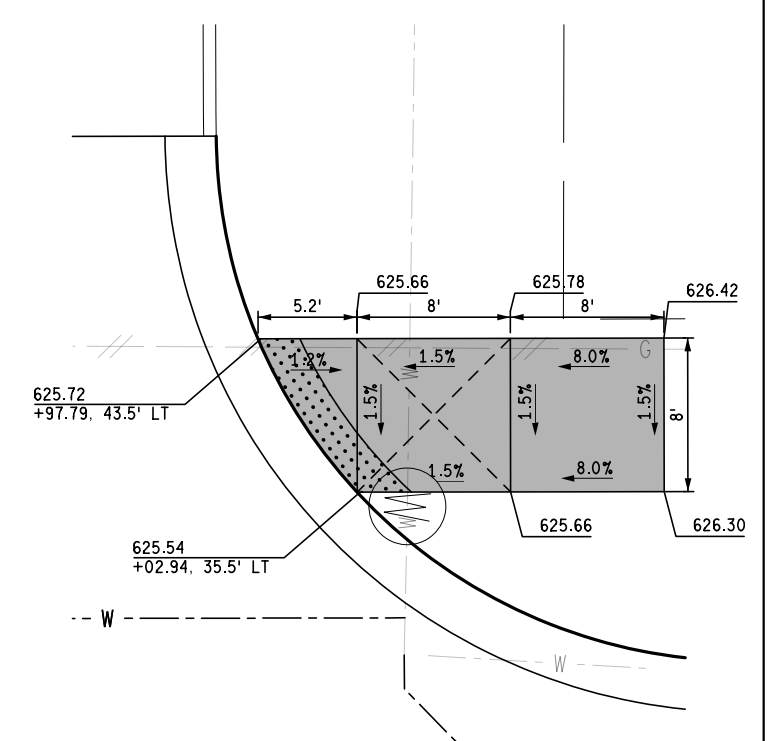


SIDEWALK RAMP DETAIL - NW QUADRANT
NOT TO SCALE




FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								 		DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: XXX	JN: 207178A	SB MOUND & BRANCH ST		MOUND DETGRD	SECT 1
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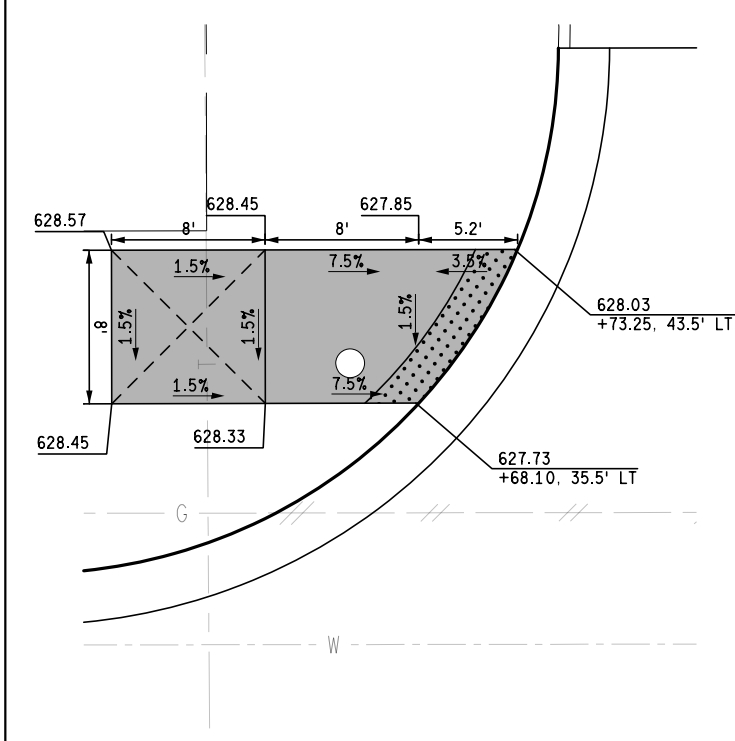
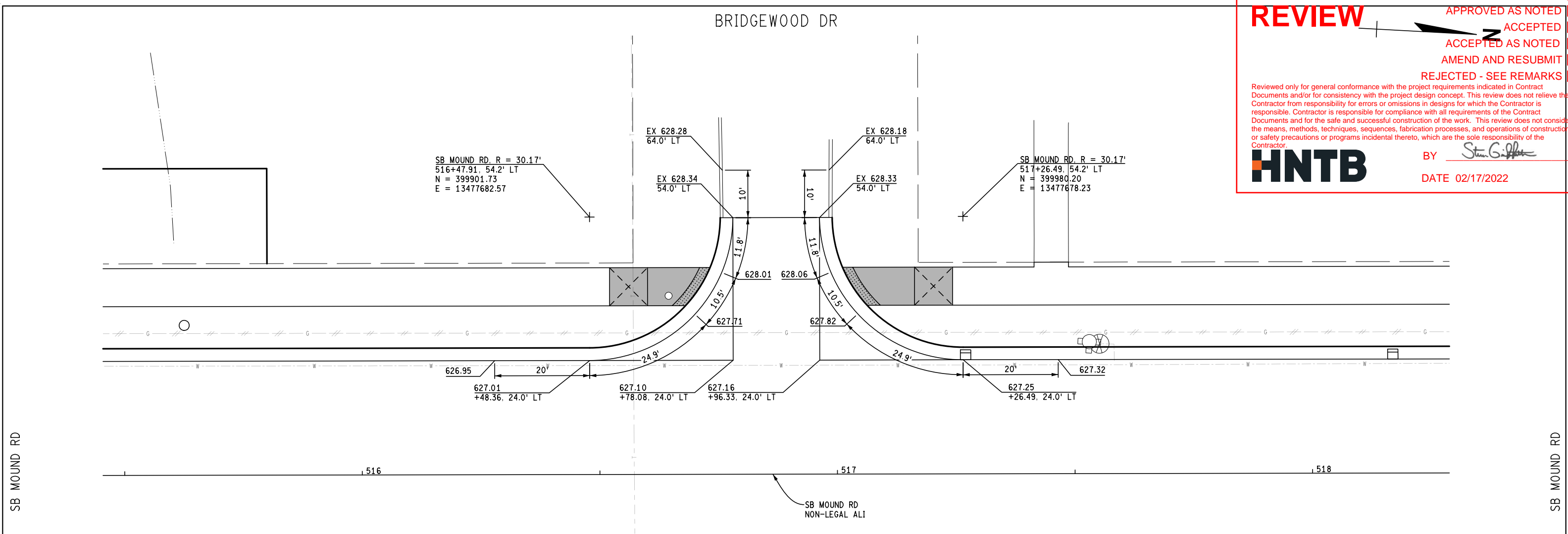


SIDEWALK RAMP DETAIL - SW QUADRANT
NOT TO SCALE

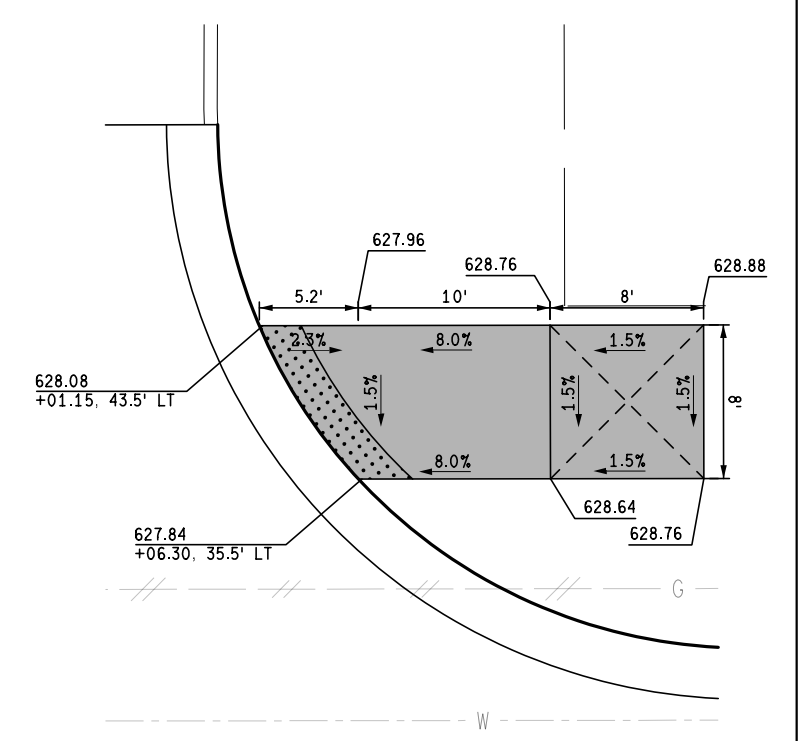


SIDEWALK RAMP DETAIL – NW QUADRANT
NOT TO SCALE




FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)									 Department of Roads	 0 20 HORZ. (FT)		DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING	SHEET			
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION					DESIGN UNIT: XXX	JN: 207178A				SB MOUND & GATEWOOD DR	MOUND DETGRD 67	SECT 1 99
											FILE: 207178_N_Mound_DTG_SB_11_Gatewood.MXD								



SIDEWALK RAMP DETAIL - SW QUADRANT
NOT TO SCALE



SIDEWALK RAMP DETAIL – NW QUADRANT
NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)												DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING	SHEET	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION					DESIGN UNIT: XXX	JN: 207178A		SB MOUND & BRIDGEWOOD DR	MOUND DETGRD 68	SECT 1 100
											FILE: 207178_N_Mound_DTG_SB_12_Bridgewood.DWG						

Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED


ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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 Contractor.



HNTB

BY 

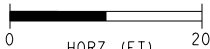
DATE 02/17/2022

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION



Department of Roads



DATE: 01/31/22

DESIGN UNIT: XXX

FILE: 207178_N_Mound_DTG_SB_13_18_Mile_Rd_NonLegal

CS: INFR50000

JN: 207178A

INTERSECTION DETAIL GRADES

SB MOUND & 18 MILE RD

DRAWING

MOUND DETGRD

69

SHEET

SECT 1

101

Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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HNTB

BY *Stu G. [Signature]*

DATE 02/17/2022

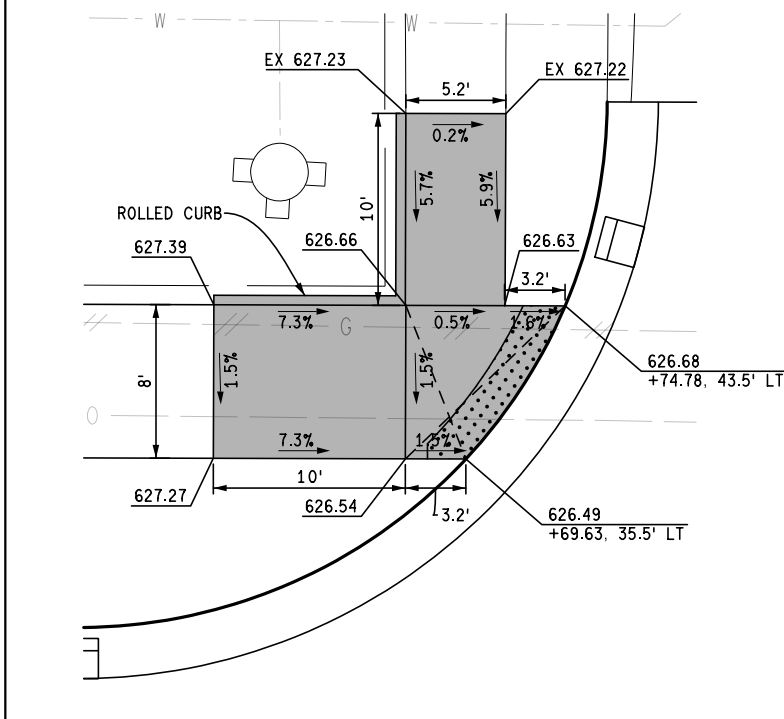
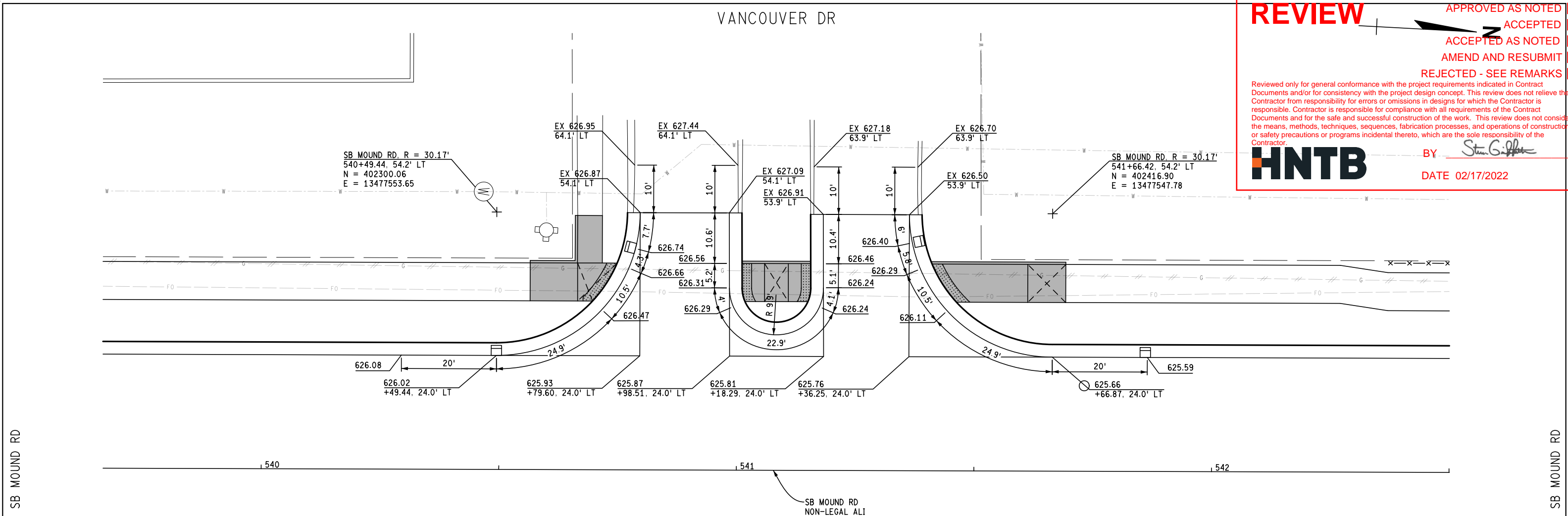
SIDEWALK RAMP DETAIL - SW QUADRANT

SIDEWALK RAMP DETAIL - NW QUADRANT

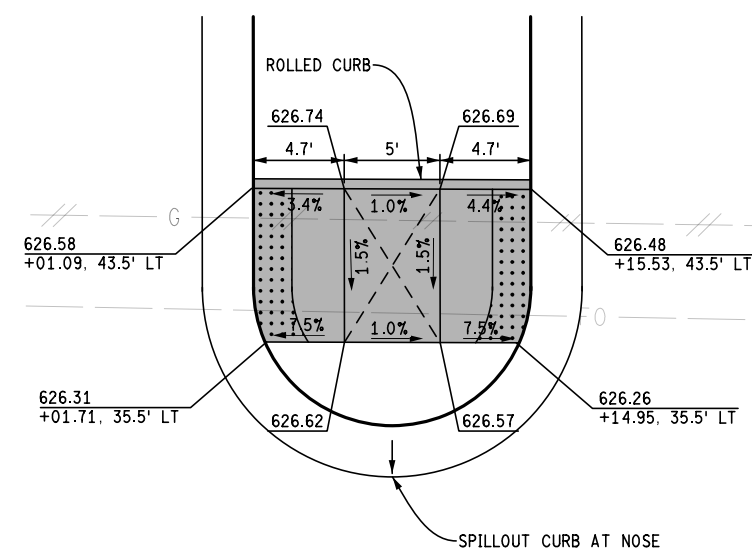
SIDEWALK RAMP DETAIL - SE QUADRANT

SIDEWALK RAMP DETAIL - NE QUADRANT

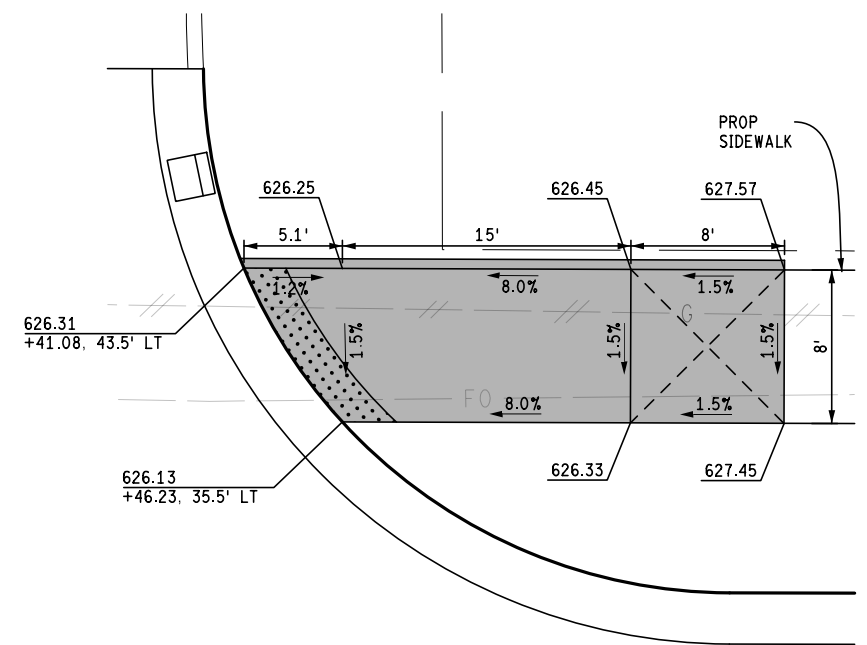
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								<div><div>AECOM</div><div><div>Department of Roads</div></div></div>		<div>0 10</div> <div>HORZ. (FT)</div>		<div>DATE: 01/31/22</div> <div>DESIGN UNIT: XXX</div> <div>FILE: 207178_N_Mound_DTG_SB_13A_18</div>		<div>CS: INFR50000</div> <div>JN: 207178A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






SIDEWALK RAMP DETAIL - SW QUADRANT
NOT TO SCALE

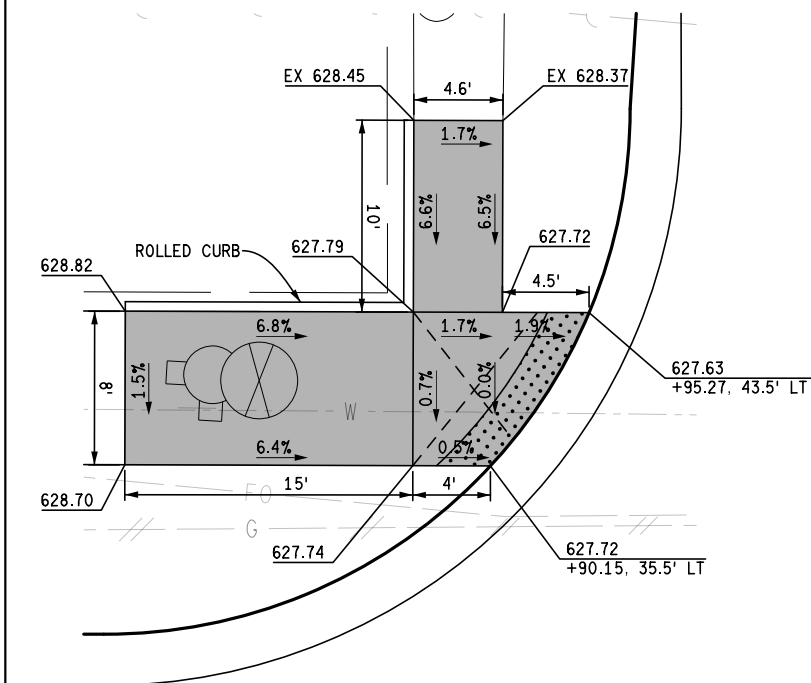
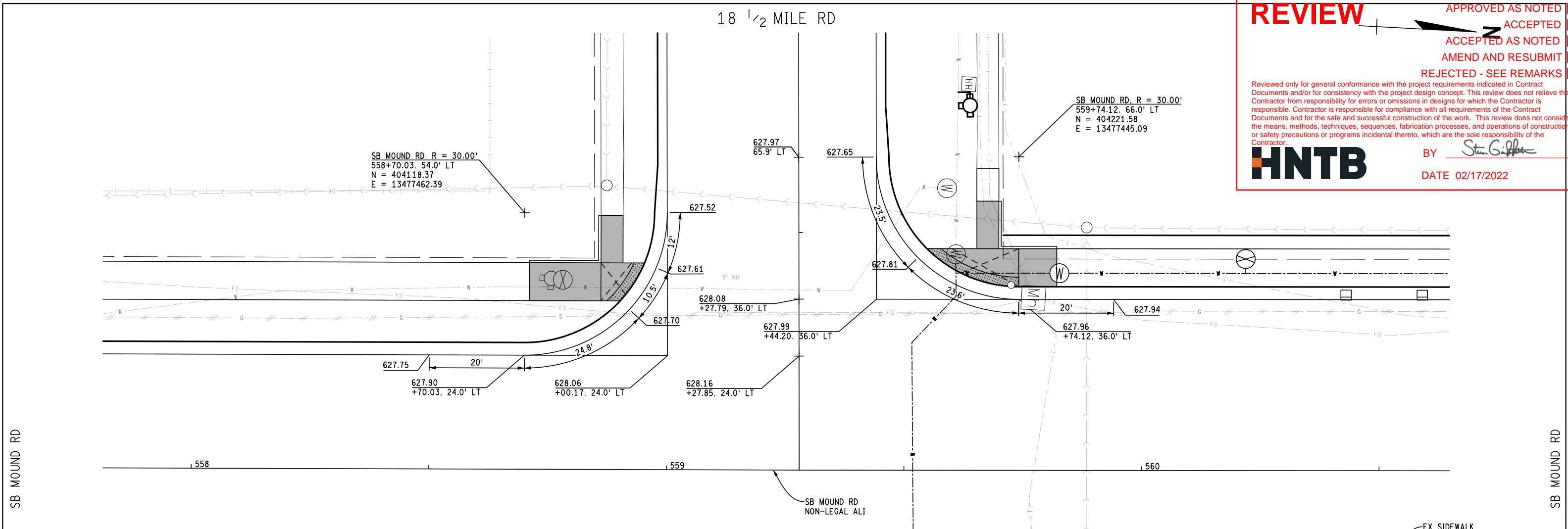


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NOT TO SCALE

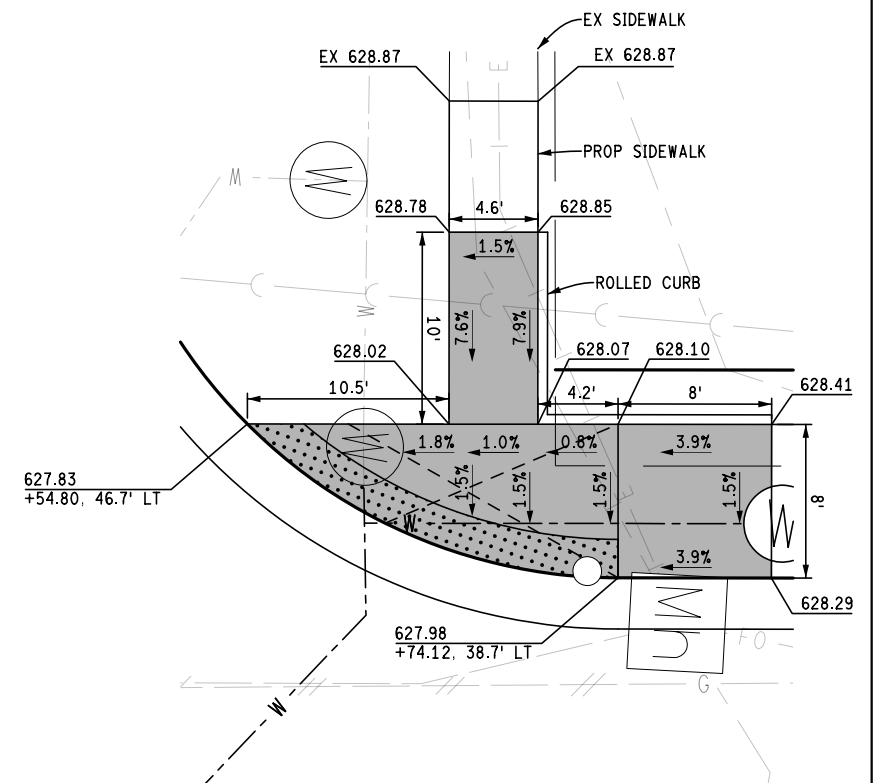


SIDEWALK RAMP DETAIL - NW QUADRANT
NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)												DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES	DRAWING	SHEET	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION					DESIGN UNIT: XXX	JN: 207178A		SB MOUND & VANCOUVER DR	MOUND DETGRD	SECT 1
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SIDEWALK RAMP DETAIL - SW QUADRANT
NOT TO SCALE

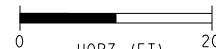


SIDEWALK RAMP DETAIL - NW QUADRANT
NOT TO SCALE

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



Department of Roads



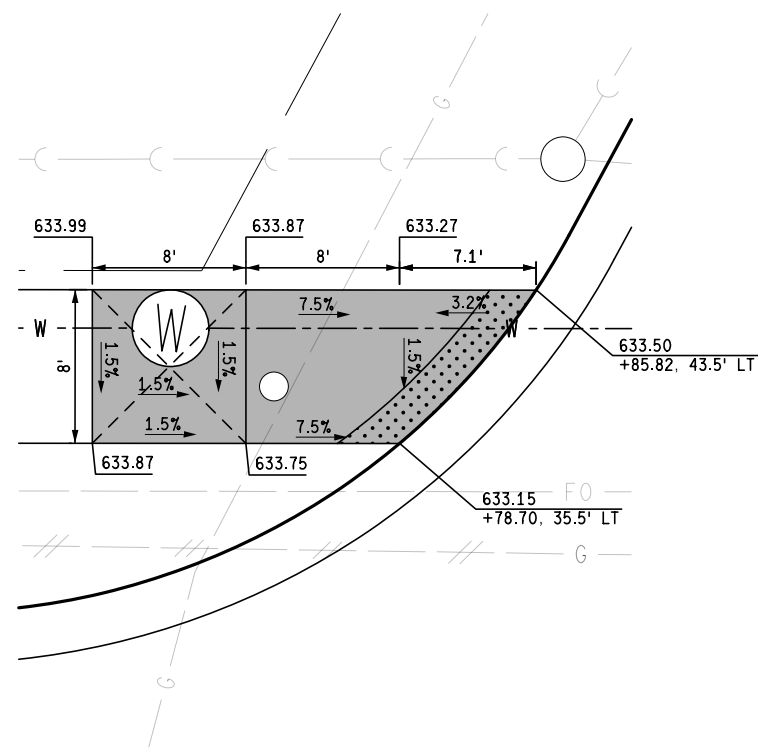
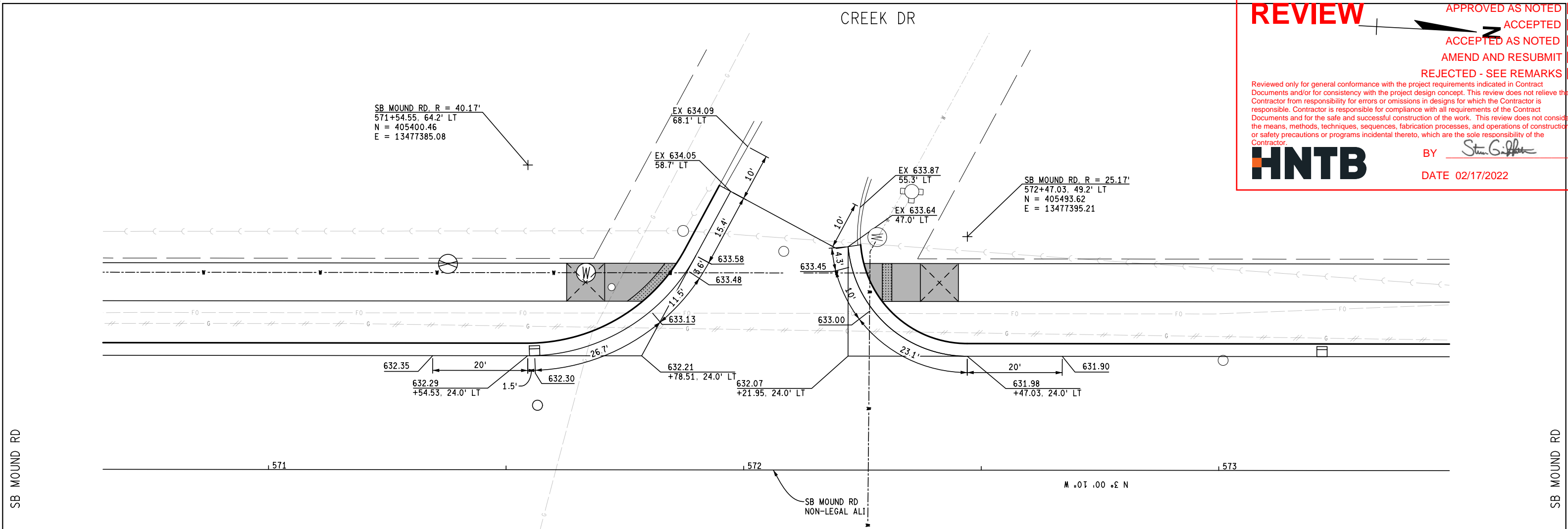
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DATE: 01/31/22
DESIGN UNIT: XXX

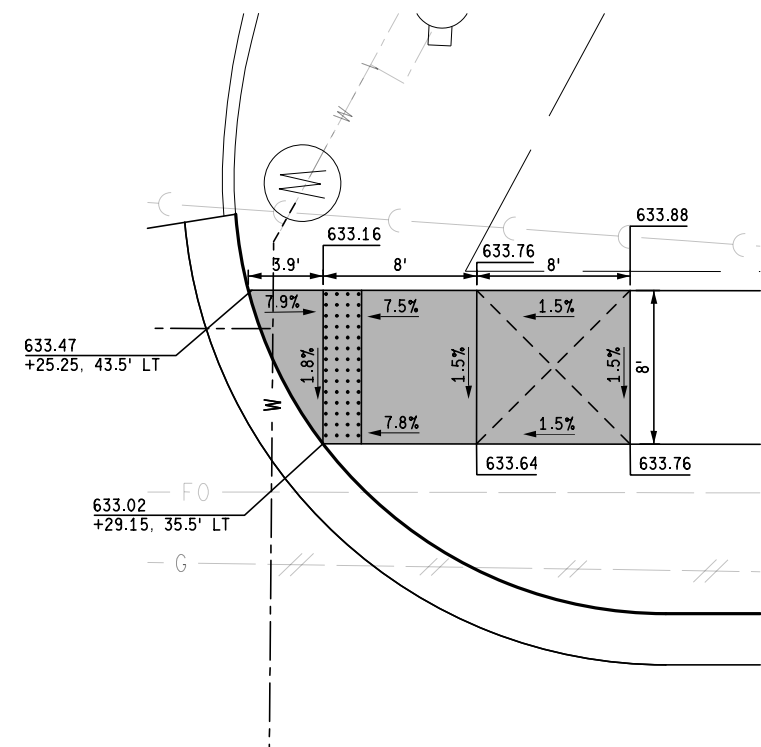
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JN: 207178A

INTERSECTION DETAIL GRADES
SB MOUND & 18¹/₂ MILE RD




DRAWING	SHEET
FOUND DETGRD 72	SECT 1 104

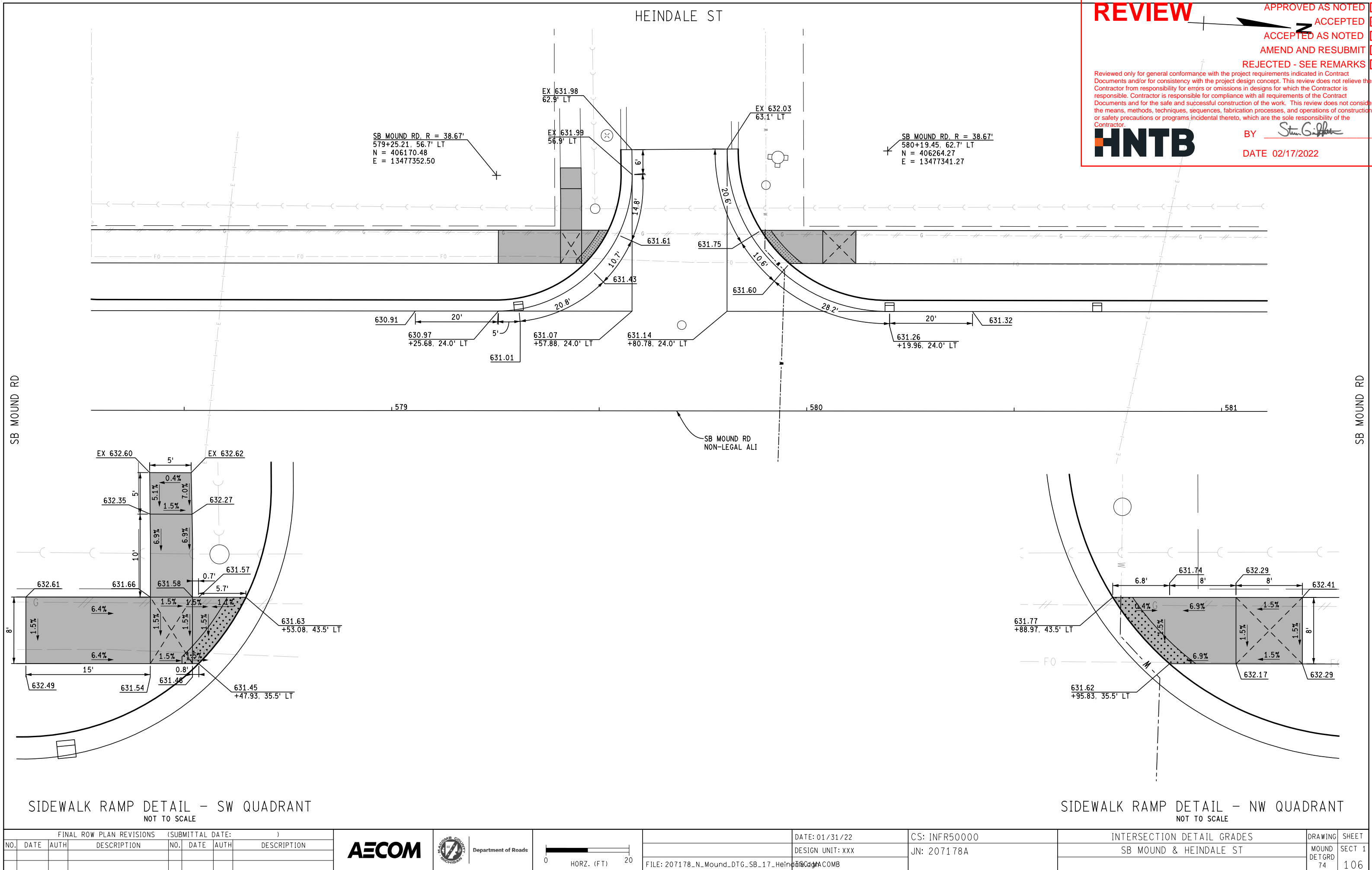


SIDEWALK RAMP DETAIL - SW QUADRANT
NOT TO SCALE



SIDEWALK RAMP DETAIL - NW QUADRANT
NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								 		DATE: 01/31/22		CS: INFR50000	INTERSECTION DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: xxx		JN: 207178A	SB MOUND & CREEK DR		MOUND DET GRD 73	SECT 1
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										15g MACOMB						105



Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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HNTB

BY *Stu G. [Signature]*

DATE 02/17/2022

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								<div>AECOM</div> <div><div>STATE OF MICHIGAN</div><div>Department of Roads</div></div> <div><div>0</div><div>HORZ. (FT)</div><div>20</div></div>	DATE: 01/31/22 DESIGN UNIT: XXX FILE: 207178_N_Mound_DTG_SB_18_19_Mile_Rd.dwg	CS: INFR50000 JN: 207178A	INTERSECTION DETAIL GRADES		DRAWING MOUND DETGRD 75	SHEET SECT 1 107		
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION				SB MOUND & 19 MILE RD					

SEE NEXT SHEET FOR
SIDEWALK DETAILS

Innovate Mound Project

REVIEW

APPROVED

APPROVED AS NOTED

ACCEPTED

ACCEPTED AS NOTED

AMEND AND RESUBMIT

REJECTED - SEE REMARKS

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HNTB

BY *Stu G. [Signature]*

DATE 02/17/2022

SIDEWALK RAMP DETAIL - SW QUADRANT

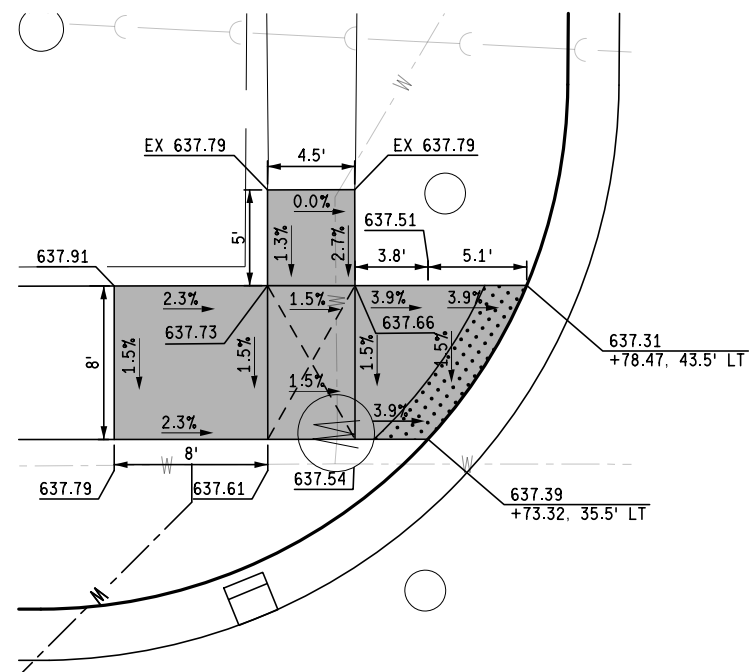
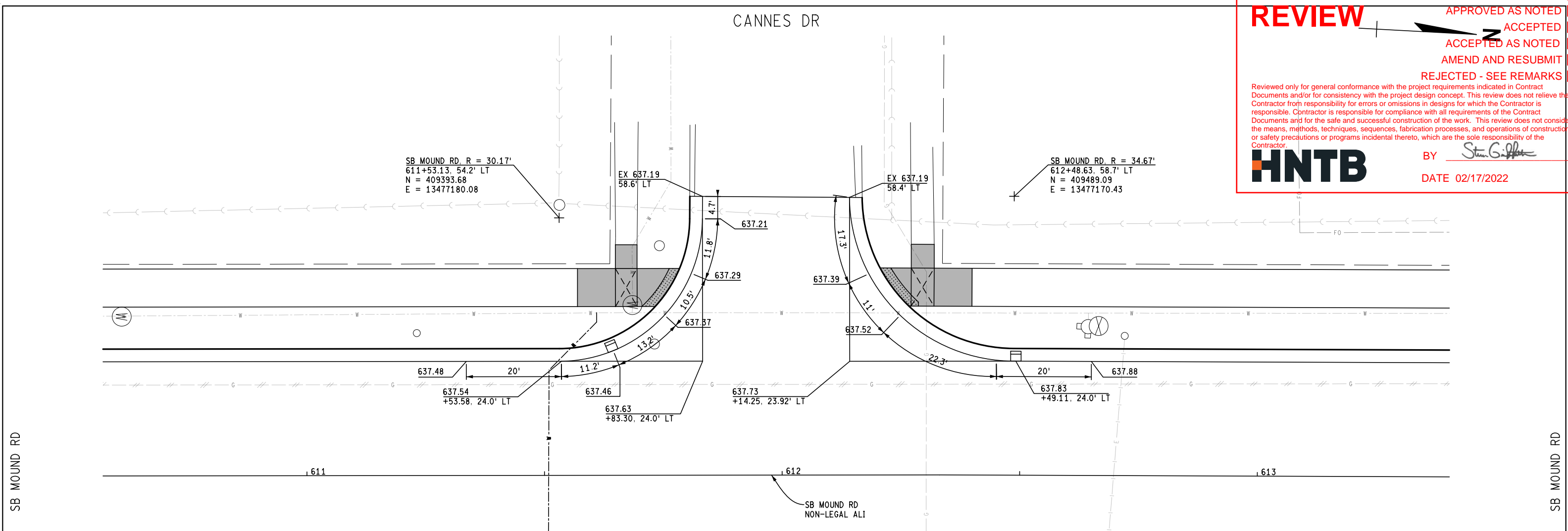
SIDEWALK RAMP DETAIL - NW QUADRANT

SIDEWALK RAMP DETAIL - SE QUADRANT

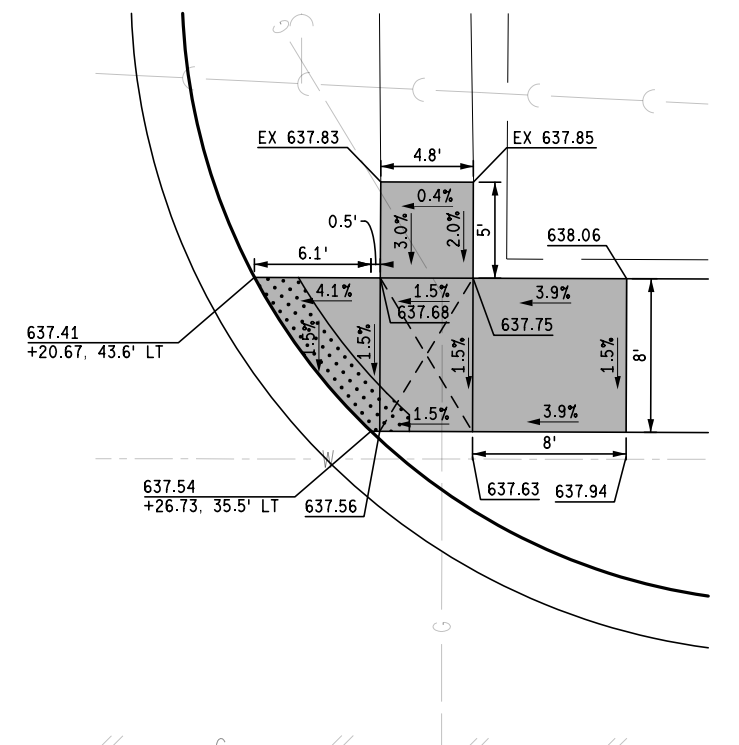
SIDEWALK RAMP DETAIL - NE QUADRANT

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								<div><div>AECOM</div><div><div>MISSOURI DEPARTMENT OF ROADS</div><div>Department of Roads</div></div></div>	<div><div>0</div><div>HORZ. (FT)</div><div>10</div></div>	NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	DATE: 01/31/22	CS: INFR50000	INTERSECTION DETAIL GRADES SB MOUND & 19 MILE RD	DRAWING	SHEET
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FILE: 207178_N_Mound_DTG_SB_18A_19.MXD



SIDEWALK RAMP DETAIL - SW QUADRANT
NOT TO SCALE



SIDEWALK RAMP DETAIL - NW QUADRANT
NOT TO SCALE

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								 		DATE: 01/31/22		CS: INFR50000	INTERSECTION DETAIL GRADES		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: xxx		JN: 207178A	SB MOUND & CANNES DR		MOUND DET GRD	77
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										25.00 MACOMB						109

THE FORUM AT GATEWAYS
SHOPPING CENTER

Innovate Mound Project

REVIEW

APPROVED ☐

APPROVED AS NOTED ☐

ACCEPTED ☒

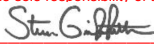
ACCEPTED AS NOTED ☐

AMEND AND RESUBMIT ☐

REJECTED - SEE REMARKS ☐

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HNTB

BY 

DATE 02/17/2022

SB MOUND RD

Plan view of the intersection showing SB Mound Rd and Forum at Gateways Shopping Center. The drawing includes stationing, offsets, and existing conditions (EX). Key features include:

- SB Mound Rd stationing: 643.59 (+01.70, 24.0' LT), 643.74 (+28.68, 24.0' LT), 643.85 (+48.82, 24.0' LT), 643.90 (+58.92, 24.0' LT), 644.05 (+86.15, 24.0' LT), 644.20 (+13.13, 24.0' LT).
- Existing conditions (EX): EX 644.38 (44.5' LT), EX 644.36 (44.5' LT), EX 644.41 (44.5' LT), EX 644.28 (44.5' LT).
- SB Mound Rd Non-Legal Ali.

SB MOUND RD

SIDEWALK RAMP DETAIL – SW QUADRANT
NOT TO SCALE

Detail view of the sidewalk ramp in the SW quadrant. The drawing shows grades, offsets, and existing conditions. Key features include:

- Grades: 1.5%, 2.5%, 4.8%.
- Offsets: 15.3', 10'.
- Existing conditions: 644.73, 644.61, 644.35 (+27.38, 43.5' LT), 644.13 (+22.11, 35.5' LT).

SIDEWALK RAMP DETAIL – CENTER QUADRANT
NOT TO SCALE

Detail view of the sidewalk ramp in the center quadrant. The drawing shows grades, offsets, and existing conditions. Key features include:

- Grades: 0.6%, 1.5%, 1.5%.
- Offsets: 8.4', 8.1'.
- Existing conditions: 644.35 (+48.82, 43.5' LT), 644.40 (+58.92, 43.5' LT), 644.23 (+49.77, 35.5' LT), 644.28 (+57.84, 35.5' LT).
- ROLLED CURB.

SIDEWALK RAMP DETAIL – NW QUADRANT
NOT TO SCALE

Detail view of the sidewalk ramp in the NW quadrant. The drawing shows grades, offsets, and existing conditions. Key features include:

- Grades: 3.4%, 1.5%, 4.3%.
- Offsets: 15.3', 10'.
- Existing conditions: 644.80, 644.28 (+87.45, 43.5' LT), 644.68, 644.25 (+92.72, 35.5' LT).

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

AECOM

Department of Roads

FILE: 207178_N_Mound_DTG_SB_21_Forum at Gateways.dwg

DATE: 01/31/22
DESIGN UNIT: XXX

CS: INFR50000
JN: 207178A

INTERSECTION DETAIL GRADES
SB MOUND & FORUM AT GATEWAYS

DRAWING	SHEET
MOUND DETGRD	SECT 1
78	110

APPROVED AS NOTED ☐

ACCEPTED ☒

ACCEPTED AS NOTED

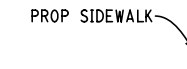
AMEND AND RESUBMIT	<input type="checkbox"/>
REJECTED - SEE REMARKS	<input type="checkbox"/>

REJECTED - SEE REMARKS
project requirements indicated in Contract

INTB

BY John Gaffney

DATE 02/17/2022



SB MOUND RD



DOBRY DR

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										<div><div><div>AECOM</div></div><div><div>MACOMB COUNTY</div><div>Department of Roads</div></div></div> <div><div>0</div><div>HORZ. (FT)</div><div>20</div></div>		DATE: 01/31/22		CS: INFR50000		INTERSECTION DETAIL GRADES		DRAWING	SHEET				
NO.	DATE	AUTH	DESCRIPTION				NO.	DATE	AUTH			DESCRIPTION				DESIGN UNIT: XXX		JN: 207178A		SB MOUND & DOBRY DR		MOUND DET GRD 79	SECT 1 111
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