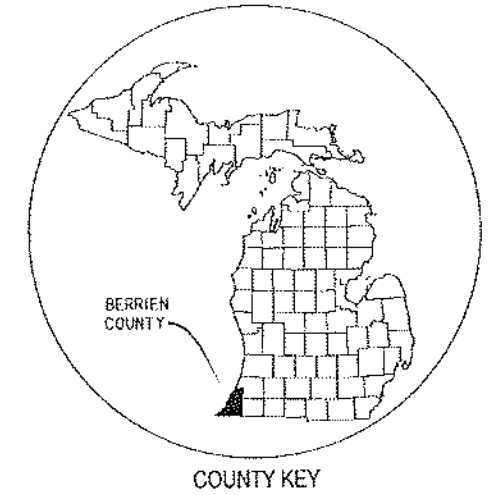


THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION.

PHYSICAL ROAD NUMBER (PR#) & MILEPOST (MP) DATA ARE FROM MICHIGAN GEOGRAPHIC FRAMEWORK VERSION # 16.

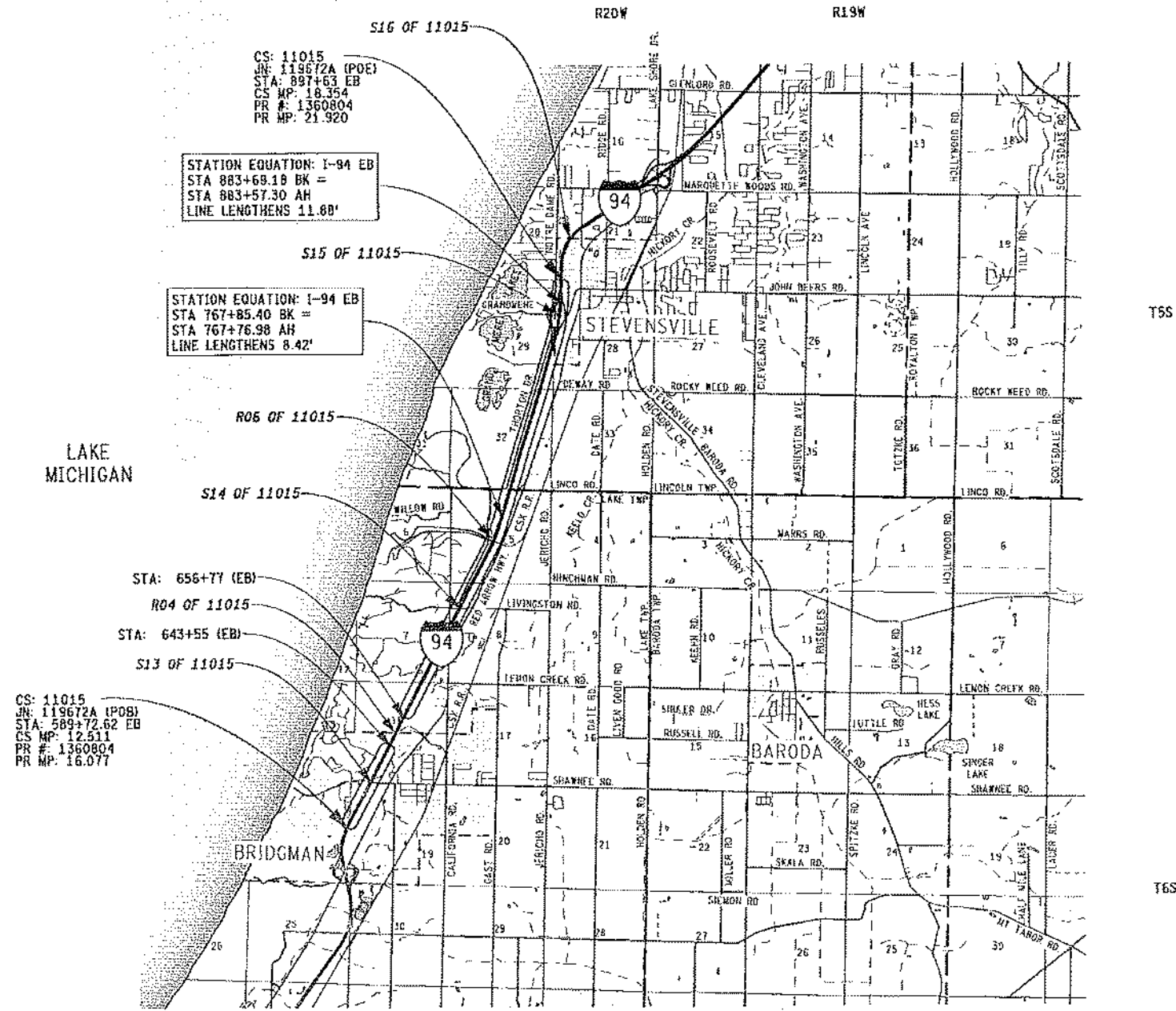
MICHIGAN DEPARTMENT OF TRANSPORTATION

ROUTE: I-94 EB
 CITY OF BRIDGMAN & VILLAGE OF STEVENSVILLE
 LAKE & LINCOLN TOWNSHIPS
 BERRIEN COUNTY



ROAD	YEAR	TRAFFIC DATA			SPEED DATA		LIMITS
		ADT	DHV	CGMH	DESIGN	POSTED	
I-94 EB	2014	21660	3032	30%	75	70	RED ARROW HWY TO GRAND MERE RD
	2014	21960	3074	30%	75	70	GRAND MERE RD TO W JCT I-94 BL

SECTION	CONTROL SEC	JOB NO.	FEDERAL PROJECT	ITEM
1	IM 11015	119672A	IM 1611(032)	KK4154



CS: 11015
 JN: 119672A (POE)
 STA: 897+63 EB
 CS MP: 18.354
 PR #: 1360804
 PR MP: 21.920

STATION EQUATION: I-94 EB
 STA 883+68.18 BK =
 STA 883+57.30 AH
 LINE LENGTHENS 11.88'

STATION EQUATION: I-94 EB
 STA 767+85.40 BK =
 STA 767+76.98 AH
 LINE LENGTHENS 8.42'

CS: 11015
 JN: 119672A (POB)
 STA: 589+72.62 EB
 CS MP: 12.511
 PR #: 1360804
 PR MP: 16.077

APPROVALS

RECOMMENDED FOR APPROVAL BY: *[Signature]* 8/3/16
 AREA: M. COX, P.E. - PROJECT MANAGER DATE

[Signature] 8/3/16
 JOHN JACOBS, P.E. - CONSTRUCTION ENGINEER DATE

MICHIGAN DEPARTMENT OF TRANSPORTATION
 KIRK T. STEWALE, P.E. - DIRECTOR

APPROVED BY: *[Signature]* 8-16-16
 BRADLEY C. WIEFERICH, P.E. - ENGINEER OF DEVELOPMENT DATE

MILES: 5.79
 CONTRACT FOR: SHOULDER REPLACEMENT, HMA COLD MILLING AND RESURFACING OF I-94 EB, EXTENSION OF RAMP B, RAMP U & C COLD MILLING & RESURFACING AT JOHN BELLS RD (EXIT 22), GUARDRAIL REPLACEMENT, AND PAVEMENT MARKINGS

FINAL ROW PLAN REVISIONS			SUBMITTAL DATE: 1		
NO.	DATE	AUTH.	NO.	DATE	AUTH.

MDOT
 Michigan Department of Transportation

NO SCALE

DATE: 08/03/16	CS: 11015
DESIGN UNIT: WELCOX	JN: 119672A
TSC: KALAMAZOO	FILE: 119677 154FB TITLE 001.dgn

TITLE SHEET	DRAWING	SHEET
I-94 EB	194EB	SECT 1
	001	1

PUBLIC UTILITIES

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

Name Of Owner	Type Of Utility
GRSD Sewer Attention: Rich Shoemaker 10831 Kruger Rd New Buffalo, MI 49117 Phone: (269) 214-2662 Email: missdiq@grsdsa.com	Sewer
Lake Charter Township Attention: Mark Panzegrau 8351 Red Arrow Highway Bridgman, MI 49106 Phone: (269) 465-3850 Email: Mpanzegrau@lake-township.org	Water
Lincoln Township Attention: Kevin Gabhard P.O. Box 279 2055 W. John Beers Rd Stevensville, MI 49127 Phone: (269) 1589	Water
Level 3 Communications Attention: Judy Henry 1025 Eldorado Blvd Broomfield, CO 80021 Phone: (720) 888-2061 Email: Judy.henry@level3.com	Phone / Fiber
Michigan Gas Utilities Attention: Timothy Rice 899 S. Telegraph Rd Monroe, MI 48161 Phone: (269) 605-2187 Fax: (920) 272-4081 Email: TJRice@michigangasutilities.com	Gas
Verizon/Frontier Attention: Scott Macfarlane 601 N. US-131 Three Rivers, MI 49093 Phone: (269) 273-0383 Email: Scott.macfarlane@fr.com	Cable
Indiana Michigan Power Company Attention: Kurt Schneider 2425 Meadowbrook Rd Benton Harbor, MI 49022-9605 Phone: (269) 926-0683 Fax: (269) 926-0672 Email: keschneider@aep.com	Electric

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
MONUMENT BOXES	R-11-E
COVER G	R-12-E
CONCRETE VALLEY GUTTER AND URBAN FREEWAY CURB	R-33-F
CONCRETE SHOULDER GUTTER AND SPILLWAY	R-35-C
GUARDRAIL MEDIAN OBJECT PROTECTION	R-56-E
GUARDRAIL AT BRIDGES AND EMBANKMENTS	R-59-E
GUARDRAIL TYPES A, B, BD, T, TD, MGS-8, MGS-8D, MGS-0, & MGS-0D	R-60-J *
GUARDRAIL APPROACH TERMINAL TYPES 1B & 1T	R-61-H *
GUARDRAIL APPROACH TERMINAL TYPES 2B & 2T	R-62-H *
GUARDRAIL DEPARTING TERMINAL TYPES B, T, & MGS	R-66-E *
GUARDRAIL ANCHORAGE, BRIDGE, DETAILS	R-67-G *
GUARDRAIL ANCHORAGE, MEDIAN	R-71-B
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 *
PRECAST CONCRETE END SECTION FOR PIPE CULVERT	R-86-E
STEEL END SECTION	R-88-D
CULVERT SLOPED END SECTION	R-95-F
SOIL EROSION & SEDIMENTATION CONTROL MEASURES	R-96-E
SEEDING AND TREE PLANTING	R-100-H
GRADING CROSS-SECTIONS	R-105-D
SUPERELEVATION AND PAVEMENT CROWNS	R-107-H
PAVEMENT SAFETY EDGE	R-110-A
SHOULDER AND CENTER LINE CORRUGATIONS	R-112-H
DELINEATOR INSTALLATIONS	R-127-E
GUARDRAIL AT INTERSECTIONS	Special Detail 21 *
PAVEMENT MARKINGS	
PAVEMENT ARROW AND MESSAGE DETAILS	PAVE-900-E
LONGITUDINAL LINE TYPES AND PLACEMENT	PAVE-905-C
FREEWAY AND RAMP PAVEMENT MARKINGS	PAVE-925-C
INTERSECTION, STOP BAR AND CROSSWALK MARKINGS	PAVE-945-C
CROSS-OVER PAVEMENT MARKINGS	PAVE-985-C
SIGNING	
STANDARD SIGN INSTALLATIONS	SIGN-100-F
STANDARD ROUTE MARKER INSTALLATIONS	SIGN-110-E *
ROADSIDE SIGN LOCATIONS & SUPPORT SPACING	SIGN-120-D
SIGN SUPPORT SELECTION CHARTS	SIGN-150-D
STEEL POSTS	SIGN-200-D
WOOD POSTS	SIGN-210-B
STEEL COLUMN BREAK-AWAY (W)	SIGN-220-C
FOUNDATION (BREAK-AWAY)	SIGN-230-A

WORK ZONE DEVICES

GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS	WZD-100-A *
TEMPORARY TRAFFIC CONTROL DEVICES	WZD-125-E *
IMPACT ATTENUATOR OBJECT MARKER	WZD-150-A *


* Denotes Special Detail

SHEET INDEX

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FUNDING CATEGORIES

JN 1 Project Description
 JN 119672A, Category 0001 = Fed / State

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)									NO SCALE	DATE: 08/03/16	CS: 11015	PROJECT INFORMATION SHEET		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION					I-94 EB	JN: 119672A		
FILE: 119672_I94EB_Proj_.doc										TSC: KALAMAZOO	I-94 EB				

GENERAL NOTES

UTILITIES

MISS DIG/UNDERGROUND UTILITY NOTIFICATION

For the protection of underground utilities and in conformance with Public Act 174 of 2013, the Contractor shall contact MISS DIG System, Inc. by phone at 811 or 800-482-7171 or via the web at either elocate.missdig.org for single address or rte.missdig.org, a minimum of 3 business days prior to excavating, excluding weekends and holidays.

EXISTING WATER MAINS AND SEWERS

The Contractor shall be responsible for any damage to properly identified existing water mains and/or existing sewers during the construction of this project.

ROW / REAL ESTATE

PROPERTY OWNERS

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

MARKETABLE TIMBER

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

SURVEY

ADJUSTING MONUMENT BOXES

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

OLD PLANS

OLD ROAD PLANS

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

Michigan Project – I-94-I(9)15	CS 11015 (1960)
Michigan Project – I-94-I(18)15	CS 11015 (1964)
Michigan Project – I-94-I(42)	CS 11015 (1976)
MDOT – JN 18203A	CS 11015 (1983)
MDOT – JN 30773A	CS 11015 (1990)

In addition, other old road plans that predate this project may be available. These plans may be reviewed in the Transportation Service Center (TSC) during normal working hours.

DETAILED GRADES

GRADES FOR INTERSECTIONS

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

EARTHWORK

EARTHWORK

Earthwork quantities are computed by the average end area method based upon ground survey information.

SLOPES

Class A slopes shall be constructed on this project.

EARTH DISTURBANCE LIMITS

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

SOIL EROSION MEASURES

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

BASES

AGGREGATE BASE

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

DRAINAGE

CULVERT EXTENSIONS

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

DRAINAGE MARKER POSTS

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

TEMPORARY BULKHEADS

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

PAVEMENT

PAVEMENT AND HMA SURFACE REMOVAL QUANTITIES

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

SOIL BORINGS AND/OR PAVEMENT CORES

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

CONCRETE HAND FINISHING

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

BRIDGE APPROACHES

SHOULDER TRANSITION AT BRIDGES WITH EROSION CONTROL CURB AND GUTTER

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

GUARDRAIL

8' GUARDRAIL POST

Guardrail shall be constructed using 8 foot posts at all guardrail locations as shown on the plans except in approach and departing terminals. The additional post length will not be paid for separately, but shall be included in the appropriate guardrail pay item.

GUARDRAIL AT BRIDGE APPROACH

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

GUARDRAIL CONNECTIONS TO EXISTING GUARDRAIL

Connections of proposed guardrail to existing guardrail shall be field drilled. Any additional cost for this work shall be included in the pay item of the proposed guardrail.

GUARDRAIL POST HOLES

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

FENCING

RIGHT OF WAY FENCE

Where fence is called for along the ROW, the Engineer will check the Right of Way as actually acquired before placing fence.

SIGNS

GENERAL

All signs shall be installed, removed and/or salvaged according to the current edition of "Michigan Manual on Uniform Traffic Control Devices" and the current edition of Michigan Department of Transportation (MDOT) "Standard Specifications for Construction."

All signs on the plans or in the log that do not have a recommendation are to be retained.

EXISTING SIGN RELOCATION

Any permanent signs requiring relocation due to Contractor operations shall be salvaged and reset by the Contractor at locations designated by the Engineer. Signs and posts damaged during the removal and storage operations shall be replaced with new signs and posts. The cost of this work shall be borne by the Contractor.

At least two weeks prior to construction to remove / relocate Michigan Logo or tourist oriented directional signs; the Contractor shall contact Mike Kovalchick, (888) 645-6467 from Michigan Logos.

DELINEATOR POST REPLACEMENT

The Contractor shall remove and dispose of all existing delineator posts along the roadway where new posts are placed. This work will be considered as included in the cost of placing new delineator posts.

PLAN SCALE

The final plans submitted with the proposal are not to scale. Where proposed on plan sheets, the signs and structures shall be fabricated in accordance to Typical Plans, Standards, and/or Details at locations described.

SIGN LAYOUT

Sign layouts shall be according to the current English edition of "Standard Highway Signs" manual or as detailed in plans. Legend length shall be determined using the "SignCAD" software.

SHEETING

Handling and installation of all signs shall conform to the sheeting manufacturer's specifications and guidelines.

Splice sheeting used for Type I signs with a 3" overlap.

Signs that have wrinkled or twisted sheeting may be rejected.

SIGN INSTALLATION

When attaching signs to supports, tighten the nut, not the bolt head.

Nylon washers shall be placed between the steel washer and the sign face sheeting. The nylon washers are to be considered part of the attaching devices and hardware. Nylon washers shall have a 3/8 inch inner diameter, a 7/8 inch outer diameter and a 1/16 inch thickness.

The Contractor shall attach a date sticker to the back of all signs installed on the contract. Stickers will be supplied to the Contractor at the preconstruction meeting by the Engineer. Stickers will be supplied by MDOT Operations Field Services Division Statewide Sign Shop, Lansing, which can be contacted at 517-322-3357.

OVERHEAD STRUCTURES

All actual heights of new overhead sign structures must be determined by the Contractor and verified by the Engineer prior to end support structures being fabricated.

All cantilevers or trusses installed or removed shall be reported by the Project Engineer on Form 467. Completed Form 467 shall be sent to: MDOT Operations Field Services Division Statewide Sign Shop, 6333 Lansing Rd, Lansing, Michigan 48917

REMOVAL & SALVAGE

All overhead signs shall remain in place until the new signs are installed.


The Type I Signs (aluminum extruded sections), cantilevers, trusses, bridge connections, steel breakaway columns and all attaching or fastening devices for these items are the property of MDOT and shall be carefully removed, hauled and stockpiled at: MDOT Operations Field Services Division Statewide Sign Shop, 6333 Lansing Rd, Lansing, Michigan 48917

Temporary stock piling (on site), loading, unloading and hauling of these items is the responsibility of the Contractor, and shall be included in the Pay Item "Transporting Salv MDOT Materials".

When trusses or cantilevers are to be salvaged, at the time of removal the truss boxes or cantilever arms shall be separated without damage to the truss boxes, cantilever arms, or end supports. No scratches, scorches or nicks will be allowed. The truss boxes or cantilever arms shall be removed before the end supports are removed, unless otherwise approved by the Project Engineer/Inspector.

MALI SIGNS

113-2 (mali) signs shall be installed on the right support of two support installations unless otherwise noted on the plans.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)									NO SCALE	DATE: 08/03/16	CS: 11015	NOTE SHEET	DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: WILCOX	JN: 119672A	I-94 EB	I94EB NOTE 001	SECT 1
										TSC: KALAMAZOO			3	

PROJECT SPECIFIC NOTES

ESTABLISHING ALIGNMENT AND CONTRACTOR STAKING

The existing yellow paint line/pavement joint does not coincide with the non-legal alignments. In the sections where both shoulders are being reconstructed/widened, build I-94 off of the non-legal alignment. In the sections where the shoulders are being retained, cold milled, and resurfaced, build I-94 off of the existing yellow paint line/pavement joint. The Contractor shall witness and as necessary re-establish the yellow paint line/pavement joint. This work will be included in the Contractor Staking pay items.

MEDIAN CABLE BARRIER

The existing median cable barrier system within the project limits is the Gibraltar, 3-cable, TL-4 high tension cable barrier system, manufactured by:

Gibraltar Cable Barrier Systems, L.P.
 4303 Innovation Loop
 Marble Falls, TX 78654
 Phone: 1-800-495-8957
 E-mail: info@gibraltarus.com

The Gibraltar, 3-cable, TL-4 system is a high tension cable barrier system consisting of three cables that meets the requirements of NCHRP 350, TL-3 when placed on slopes between 1-on-4 and 1-on-6, and meets the requirements of NCHRP 350, TL-4 when placed on 1-on-6 slopes or flatter.

Line post foundations that form part of a cable barrier terminal must be spaced according to manufacturer's specifications.

The Contractor will be responsible for maintaining all cable barriers within the project limits throughout the duration of the project, included in the spare part and repair labor pay items located on the "Miscellaneous Quantities" sheet.

CABLE BARRIER FLARE RATE

The flare rate for cable barrier must not exceed 30:1.

CABLE BARRIER LINE POST SPACING

Cable barrier line post spacing must not exceed 10'-6", except when necessary to avoid underground obstructions or utilities. Obtain the Engineer's approval before installing line post foundations spaced greater than 10'-6". Line post spacing must not exceed 20'-0" under any circumstance.

SALVAGING CABLE BARRIER COMPONENTS SLATED FOR REMOVAL

Obtain the Engineer's approval before disposing any cable barrier components identified for removal. Salvage cable barrier components slated for removal and disposal when specified by the Engineer.

HEIGHT RESTRICTION

No construction equipment shall exceed a height of greater than 180'. If a height of 180' is anticipated to be exceeded, the Contractor must obtain a permit with the Federal Aviation Administration (FAA).

CLEARING


Clear to within 10' of existing ROW or 10' beyond the proposed slope stake line, whichever is greater, as shown on the plans and as directed by the Engineer.

EROSION CONTROL OF SAND DUNES

Sand dune areas within the earth disturbance limits shall be stabilized with Mulch Blanket or High Velocity Mulch Blanket in accordance with section 816.03.H of the Standard Specifications for Construction no later than 5 calendar days after achieving final earth grade. Any locations within 150 feet of lakes, streams, or wetlands must be stabilized no later than 24 hours after achieving final earth grade. Permanently stabilize sand dune areas with dune grass planting in accordance with section 818 of the Standard Specifications for Construction.

Sand dunes are located along the east side of EB I-94 in the following locations:

- STA 583+19.39 TO STA 728+84.96
- STA 757+35.70 TO STA 767+98.07
- STA 875+61.72 TO STA 878+22.19 (Ramp B Infield)
- STA 882+67.65 TO STA 886+34.90 (Ramp C Infield)

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								NO SCALE	DATE: 08/03/16	CS: 11015	NOTE SHEET	DRAWING	SHEET		
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH			DESCRIPTION	DESIGN UNIT: WILCOX		JN: 119672A	I94EB	NOTE	SECT 1
										TSC: KALAMAZOO			I-94 EB	002	4

MISCELLANEOUS QUANTITIES

The following items of work shall be done as they apply throughout the project. These items are not detailed or included on the plan and profile sheets.

<u>JN 119672</u>	
<u>CAT 0001</u>	
1	LSUM Mobilization, Max
200	Ft Exploratory Investigation, Vertical
100	Cyd Non Haz Contaminated Material Handling and Disposal, LM
6000	Cyd Subgrade Undercutting, Type II
100	Cyd Phragmites Plant Material Handling and Disposal, LM
1	LSUM Project Cleanup
20	Ea Dr Marker Post
1	LSUM Pavt. Cleaning
175	Syd Bump Grinding
115340	Dir HMA Quality Initiative
280000	Dir Longitudinal Joint Density Quality Initiative
100	Ton Hand Patching
61100	Dir Ride Incentive
1	Ea Monument Box
1	Ea Monument Box Adjust
1	Ea Monument Preservation
20	Ea Protect Corners
1	LSUM Contractor Staking, Road Only
81	Hr Staking Plan Errors and Extras, One Person
33	Hr Staking Plan Errors and Extras, Two Person
49	Hr Staking Plan Errors and Extras, Three Person

PAVEMENT MARKING & DELINEATION QUANTITIES

The following items of work are estimated for the entire project.

<u>JN 119672</u>	
<u>CAT 0001</u>	
165	Ea Delineator Reflector
10	Ea Delineator, Reflective Sheeting, 3 inch by 6 inch, Red
2	Ea Delineator, Reflective Sheeting, 3 inch by 6 inch, White
6	Ea Delineator, Reflective Sheeting, 3 inch by 6 inch, Yellow
130	Ea Post, Delineator
23	Ea Post, Flexible Delineator
1	Ea Pavt Mrkg, Ovlv Cold Plastic, Wrong Way Arrow Symbol
82937	Ft Recessing Pavement Markings, Longit
19500	Ft Pavt Mrkg, Wet Retr-flec Polyurea, 4 inch, White
33300	Ft Pavt Mrkg, Wet Retr-flec Polyurea, 6 inch, White
737	Ft Pavt Mrkg, Wet Retr-flec Polyurea, 12 inch, White
33400	Ft Pavt Mrkg, Wet Retr-flec Polyurea, 6 inch, Yellow
1	Ea Pavt Mrkg, Preformed Thermoplastic, 24 inch, Stop Bar

FOR INFORMATION ONLY -- DELINEATOR REFLECTORS	
COLOR	QUANTITY
CRYSTAL	142
RED	15
GREEN	8

CABLE MEDIAN BARRIER QUANTITIES

The following items are in addition to those shown on the plans. The items are to be used as directed by the Engineer.

<u>JN 119672</u>	
<u>CAT 0001</u>	
1000	Ft Cable Barrier, High Tension, Rem
1000	Ft Cable Barrier, Furn and Install (Gibraltar, TL-4)
4	Ea Cable Barrier Terminal, Furn and Install (Gibraltar, TL-4)
25	Ea Cable Barrier, Reflector, Furn and Install (Gibraltar)

CABLE MEDIAN BARRIER SPARE PARTS

The following items are in addition to those shown on the plans. The items are to be used as directed by the Engineer.

<u>JN 119672</u>	
<u>CAT 0001</u>	
3	Ea Cable, 1000 ft Spool
400	Ea Cable Barrier, Intermediate Line Post
400	Ea Cable Barrier, Misc Hardware, Intermediate Line Post
5	Ea Cable Barrier, Modified Line Post and Hardware
20	Ea Cable Barrier, Socket, Conc Fdn
15	Ea Cable Barrier, Turnbuckle
175	Ea Cable Barrier, Reflector
400	Ea Cable Barrier, Excluder Cap
5	Ea Cable Barrier, Wedge Lock Fitting
25	Ea Cable Barrier, Cable Splice Kit
5	Ea Cable Barrier Terminal, Materials
25000	Dir Cable Barrier, High Tension, Repair Labor

EROSION & SEDIMENTATION CONTROL QUANTITIES

The following items are in addition to those shown on the plans. The items are to be used as directed by the Engineer.

<u>JN 119672</u>	
<u>CAT 0001</u>	
160	Ft Erosion Control, Check Dam, Stone
2	Ea Erosion Control, Gravel Access Approach
5	Ea Erosion Control, Inlet Protection, Fabric Drop
50	Cyd Erosion Control, Maintenance, Sediment Removal
50	Ea Erosion Control, Sand Bag
15	Cyd Erosion Control, Sediment Basin
20	Ea Erosion Control, Sediment Trap
1000	Ft Erosion Control, Silt Fence
160	Ft Permeable Runoff Structure

MAINTAINING TRAFFIC QUANTITIES

The following items of work are estimated for the entire project to maintain traffic in the project during construction.

<u>JN 119672</u>	
<u>CAT 0001</u>	
6	Ea Barricade, Type III, High Intensity, Lighted, Furn
6	Ea Barricade, Type III, High Intensity, Lighted, Oper
4	Ea Lighted Arrow, Type C, Furn
4	Ea Lighted Arrow, Type C, Oper
1	LSUM Ltg for Night Work
1	LSUM Minor Traf Devices
7000	Ft Pavt Mrkg Cover, Type R, Black
109100	Ft Pavt Mrkg, Wet Reflective Type NR, Paint, 4 inch, White, Temp
62350	Ft Pavt Mrkg, Wet Reflective, Type NR, Paint, 4 inch, Yellow, Temp
74550	Ft Pavt Mrkg, Wet Reflective, Type R, Tape, 4 inch, White, Temp
72650	Ft Pavt Mrkg, Wet Reflective, Type R, Tape, 4 inch, Yellow, Temp
655	Ea Plastic Drum, High Intensity, Furn
655	Ea Plastic Drum, High Intensity, Oper
20	Ea Sign Cover
110	Sft Sign, Type A, Temp, Prismatic, Furn
110	Sft Sign, Type A, Temp, Prismatic, Oper
1267	Sft Sign, Type B, Temp, Prismatic, Furn
1267	Sft Sign, Type B, Temp, Prismatic, Oper
301	Sft Sign, Type B, Temp, Prismatic, Special, Furn
301	Sft Sign, Type B, Temp, Prismatic, Special, Oper
2	Ea Sign, Portable, Changeable Message, NTCIP-Compliant, Furn
2	Ea Sign, Portable, Changeable Message, NTCIP-Compliant, Oper

NOTES

COORDINATE SYSTEM: STATE PLANE GRID
ZONE: MICHIGAN SOUTH 2113
ELLIPSOID: GRS 80
HORIZONTAL DATUM: NAD 83 (2011)
VERTICAL DATUM: NAVD 88
GEOID: GEOID 12A
UNITS: INTERNATIONAL FEET

GROUND DISTANCE CONVERSION

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

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

ALL STATION OFFSET INFORMATION IS REFERENCED TO THE I-94 LEGAL ALIGNMENT DEVELOPED IN 2013 FROM JN113585

INTERMEDIATE CONTROL POINTS

CONTROL POINT# 702
 DESCRIPTION: SET 5/8" X 36" REROD WITH SPICER CAP IN THE EAST RIGHT OF WAY OF EASTBOUND I-94, 600'+/- SOUTH OF MILE MARKER 16.2.
 STATION: 589+20.300 OFFSET: 74.688
 COORDINATES: N: 167202.509 E: 12523773.616 Z: 652.879
 STANDARD DEVIATIONS (95%): N: 0.017 E: 0.004 Z: 0.031765
 COMBINED SCALE FACTOR: 1.00001661300000
WITNESSES:
 1. S.63°E. 74 FT. TO FACE OF FENCE LINE
 2. N.63°W. 0.5 FT. TO EAST EDGE OF GRAVEL SHOULDER
 3. S.04°W. 181 FT. TO FACE OF 14" TREE

CONTROL POINT# 703
 DESCRIPTION: SET 5/8" X 36" REROD WITH SPICER TRAVERSE CAP IN EAST RIGHT OF WAY OF EASTBOUND I-94, 400'+/- NORTH OF MILE MARKER 16.2.
 STATION: 599+28.090 OFFSET: 71.673
 COORDINATES: N: 168100.044 E: 12524231.961 Z: 655.927
 STANDARD DEVIATIONS (95%): N: 0.020 E: 0.006 Z: 0.031734
 COMBINED SCALE FACTOR: 1.00001575216000
WITNESSES:
 1. S.62°E. 77 FT. TO FACE OF FENCE LINE
 2. S.15°W. 259 FT. TO EAST END OF 36" RCP CULVERT
 3. N.43°E. 208 FT. TO FACE OF 8" PINE TREE

CONTROL POINT# 704
 DESCRIPTION: SET 5/8" X 36" REROD WITH SPICER TRAVERSE CAP IN EAST RIGHT OF WAY OF EASTBOUND I-94, 150'+/- NORTH OF MILE MARKER 16.4.
 STATION: 608+58.400 OFFSET: 72.524
 COORDINATES: N: 168926.915 E: 12524658.300 Z: 654.371
 STANDARD DEVIATIONS (95%): N: 0.012 E: 0.005 Z: 0.031513
 COMBINED SCALE FACTOR: 1.00001517357000
WITNESSES:
 1. S.63°E. 78 FT. TO FACE OF FENCE LINE
 2. N.29°E. 183 FT. TO FACE OF HEAD WALL
 3. S.02°E. 127 FT. TO EAST FACE OF 12" PINE

CONTROL POINT# 705
 DESCRIPTION: SET 5/8" X 36" REROD WITH SPICER TRAVERSE CAP IN EAST RIGHT OF WAY OF EASTBOUND I-94, 20'+/- NORTH OF MILE MARKER 16.6.
 STATION: 617+82.160 OFFSET: 72.854
 COORDINATES: N: 169748.193 E: 12525081.176 Z: 652.761
 STANDARD DEVIATIONS (95%): N: 0.012 E: 0.007 Z: 0.031086
 COMBINED SCALE FACTOR: 1.00001460268000
WITNESSES:
 1. S.00°W. 205 FT. TO FACE OF HEADWALL
 2. S.02°W. 213 FT. TO EAST END OF 66" CPP CULVERT
 3. S.19°W. 404 FT. TO EAST END OF 12" CMP

CONTROL POINT# 706
 DESCRIPTION: SET 5/8" X 36" REROD WITH SPICER TRAVERSE CAP IN EAST RIGHT OF WAY OF EASTBOUND I-94, 75'+/- SOUTH OF MILE MARKER 16.8.
 STATION: 627+24.93 OFFSET: 72.5570
 COORDINATES: N: 170586.671 E: 12525512.196 Z: 650.752
 STANDARD DEVIATIONS (95%): N: 0.008 E: 0.005 Z: 0.030469
 COMBINED SCALE FACTOR: 1.00001404202000
WITNESSES:
 1. N.63°W. 3 FT. TO EDGE OF BITUMINOUS SHOULDER
 2. N.34°E. 111 FT. TO MILE MARKER 16.8 SIGN LEG
 3. S.24°W. 82 FT. TO DELINEATOR POST

CONTROL POINT# 707
 DESCRIPTION: SET 5/8" X 36" REROD WITH SPICER TRAVERSE CAP IN EAST RIGHT OF WAY OF EASTBOUND I-94, 250'+/- SOUTH OF MILE MARKER 17.0.
 STATION: 635+82.22 OFFSET: 73.7478
 COORDINATES: N: 171348.448 E: 12525905.430 Z: 646.159
 STANDARD DEVIATIONS (95%): N: 0.010 E: 0.009 Z: 0.029647
 COMBINED SCALE FACTOR: 1.00001366253000
WITNESSES:
 1. N.63°W. 5 FT. TO EDGE OF BITUMINOUS SHOULDER
 2. N.45°W. 30 FT. TO SOUTH END OF GUARD RAIL
 3. N.17°W. 5 FT. TO DELINEATOR POST

CONTROL POINT# 708
 DESCRIPTION: SET 5/8" X 36" REROD WITH SPICER TRAVERSE CAP IN EAST RIGHT OF WAY OF EASTBOUND I-94, 350'+/- SOUTH OF MILE MARKER 17.2.
 STATION: 645+26.21 OFFSET: 72.5135
 COORDINATES: N: 172188.441 E: 12526336.175 Z: 639.922
 STANDARD DEVIATIONS (95%): N: 0.007 E: 0.007 Z: 0.028591
 COMBINED SCALE FACTOR: 1.00001330039000
WITNESSES:
 1. N.63°W. 3 FT. TO EDGE OF BITUMINOUS SHOULDER
 2. N.22°E. 27 FT. TO DELINEATOR POST
 3. S.70°E. 60 FT. TO 10" PINE TREE

CONTROL POINT# 709
 DESCRIPTION: SET 5/8" X 36" REROD WITH SPICER TRAVERSE CAP IN EAST RIGHT OF WAY OF EASTBOUND I-94, 350'+/- SOUTH OF MILE MARKER 17.4.
 STATION: 656+22.21 OFFSET: 72.2248
 COORDINATES: N: 173163.166 E: 12526837.296 Z: 640.246
 STANDARD DEVIATIONS (95%): N: 0.008 E: 0.007 Z: 0.027041
 COMBINED SCALE FACTOR: 1.00001252555000
WITNESSES:
 1. N.55°W. 3 FT. TO EDGE OF BITUMINOUS SHOULDER
 2. S.40°E. 46 FT. TO 6" OAK TREE
 3. N.24°E. 34 FT. TO DELINEATOR POST

CONTROL POINT# 710
 DESCRIPTION: SET 5/8" X 36" REROD WITH SPICER TRAVERSE CAP IN EAST RIGHT OF WAY OF EASTBOUND I-94, 400'+/- SOUTH OF MILE MARKER 17.6.
 STATION: 665+73.62 OFFSET: 71.8574
 COORDINATES: N: 174009.356 E: 12527272.204 Z: 644.785
 STANDARD DEVIATIONS (95%): N: 0.004 E: 0.006 Z: 0.025364
 COMBINED SCALE FACTOR: 1.00001164867000
WITNESSES:
 1. N.63°W. 3 FT. TO EDGE OF BITUMINOUS SHOULDER
 2. N.20°E. 85 FT. TO DELINEATOR POST
 3. S.28°W. 111 FT. TO DELINEATOR POST

CONTROL POINT# 711
 DESCRIPTION: SET 5/8" X 36" REROD WITH SPICER TRAVERSE CAP IN EAST RIGHT OF WAY OF EASTBOUND I-94, 400'+/- SOUTH OF MILE MARKER 17.8.
 STATION: 676+16.81 OFFSET: 77.5564
 COORDINATES: N: 174934.384 E: 12527754.492 Z: 646.993
 STANDARD DEVIATIONS (95%): N: 0.006 E: 0.005 Z: 0.023089
 COMBINED SCALE FACTOR: 1.00001082214000
WITNESSES:
 1. N.63°W. 9 FT. TO EDGE OF BITUMINOUS SHOULDER
 2. N.09°E. 46 FT. TO DELINEATOR POST
 3. S.52°E. 42 FT. TO 5" PINE TREE

CONTROL POINT# 712
 DESCRIPTION: SET 5/8" X 36" REROD WITH SPICER TRAVERSE CAP IN EAST RIGHT OF WAY OF EASTBOUND I-94, 450'+/- SOUTH OF MILE MARKER 18.0.
 STATION: 685+85.18 OFFSET: 73.7615
 COORDINATES: N: 175797.224 E: 12528194.111 Z: 653.080
 STANDARD DEVIATIONS (95%): N: 0.009 E: 0.004 Z: 0.020285
 COMBINED SCALE FACTOR: 1.00000986329000
WITNESSES:
 1. N.17°E. 26 FT. TO PK NAIL IN GUARD RAIL POST
 2. N.58°W. 5 FT. TO EDGE OF BITUMINOUS SHOULDER
 3. S.58°W. 292 FT. TO SOUTH END OF GUARD RAIL

CONTROL POINT# 713
 DESCRIPTION: SET 5/8" X 36" REROD WITH SPICER TRAVERSE CAP IN EAST RIGHT OF WAY OF EASTBOUND I-94, 450'+/- SOUTH OF MILE MARKER 18.2.
 STATION: 694+84.73 OFFSET: 73.818
 COORDINATES: N: 176597.105 E: 12528605.672 Z: 646.049
 STANDARD DEVIATIONS (95%): N: 0.006 E: 0.006 Z: 0.019176
 COMBINED SCALE FACTOR: 1.00000958160000
WITNESSES:
 1. N.42°E. 13 FT. TO DELINEATOR POST
 2. N.17°E. 11 FT. TO NAIL IN GUARD RAIL POST
 3. S.50°W. 10 FT. TO NAIL IN GUARD RAIL POST

CONTROL POINT# 714
 DESCRIPTION: SET 5/8" X 36" REROD WITH SPICER TRAVERSE CAP IN EAST RIGHT OF WAY OF EASTBOUND I-94, 50'+/- NORTH OF LIVINGSTON ROAD OVERPASS.
 STATION: 704+79.76 OFFSET: 72.9723
 COORDINATES: N: 177482.294 E: 12529060.105 Z: 635.372
 STANDARD DEVIATIONS (95%): N: 0.008 E: 0.007 Z: 0.021742
 COMBINED SCALE FACTOR: 1.00000940847000
WITNESSES:
 1. N.58°W. 5 FT. TO EDGE OF BITUMINOUS SHOULDER
 2. S.28°W. 5 FT. TO DELINEATOR POST
 3. S.22°W. 128 FT. TO NORTH END OF GUARD RAIL



CONTROL POINT# 715
 DESCRIPTION: SET 5/8" X 36" REROD WITH SPICER TRAVERSE CAP IN EAST RIGHT OF WAY OF EASTBOUND I-94, 50'+/- NORTH OF LIVINGSTON ROAD OVERPASS.
 STATION: 715+36.60 OFFSET: 74.2749
 COORDINATES: N: 178421.473 E: 12529544.729 Z: 625.760
 STANDARD DEVIATIONS (95%): N: 0.032 E: 0.010 Z: 0.023607
 COMBINED SCALE FACTOR: 1.00000914638000
WITNESSES:
 1. S.00°W. 21 FT. TO NORTH FACE OF LIVINGSTON ROAD BRIDGE OVERPASS
 2. N.54°E. 87 FT. TO THE FACE OF 18" TREE
 3. N.34°E. 76 FT. TO NORTH END OF 12 IN CMP

CONTROL POINT# 716
 DESCRIPTION: SET 5/8" X 36" REROD WITH SPICER TRAVERSE CAP IN EAST RIGHT OF WAY OF EASTBOUND I-94, 1000'+/- NORTH OF LIVINGSTON ROAD OVERPASS.
 STATION: 724+50.89 OFFSET: 73.1011
 COORDINATES: N: 179235.028 E: 12529961.941 Z: 618.522
 STANDARD DEVIATIONS (95%): N: 0.005 E: 0.009 Z: 0.024843
 COMBINED SCALE FACTOR: 1.00000886900000
WITNESSES:
 1. S.62°E. 76 FT. TO FACE OF FENCE LINE
 2. S.16°W. 489 FT. TO EAST END OF 12" CMP CULVERT
 3. N.48°E. 232 FT. TO FACE OF POWER POLE

CONTROL POINT# 717
 DESCRIPTION: SET 5/8" X 36" REROD WITH SPICER TRAVERSE CAP IN EAST RIGHT OF WAY OF EASTBOUND I-94, 175'+/- NORTH OF MILE MARKER 18.8.
 STATION: 735+08.36 OFFSET: 73.3746
 COORDINATES: N: 180175.228 E: 12530445.933 Z: 615.042
 STANDARD DEVIATIONS (95%): N: 0.008 E: 0.016 Z: 0.025656
 COMBINED SCALE FACTOR: 1.00000831695000
WITNESSES:
 1. S.56°E. 61 FT. TO EDGE OF POND
 2. S.25°W. 610 FT. TO EAST END OF 18" RCP CULVERT
 3. N.44°E. 260 FT. TO FENCE POST

CONTROL POINT# 718
 DESCRIPTION: SET 5/8" X 36" REROD WITH SPICER TRAVERSE CAP IN EAST RIGHT OF WAY OF EASTBOUND I-94, 600'+/- SOUTH OF COOK PLANT DRIVE OVERPASS.
 STATION: 745+34.86 OFFSET: 71.5132
 COORDINATES: N: 181088.877 E: 12530913.865 Z: 613.331
 STANDARD DEVIATIONS (95%): N: 0.006 E: 0.008 Z: 0.026016
 COMBINED SCALE FACTOR: 1.00000770125000
WITNESSES:
 1. S.62°E. 78 FT. TO FACE OF FENCE LINE
 2. N.58°W. 5 FT. TO EAST EDGE OF GRAVEL SHOULDER
 3. N.23°E. 787 FT. TO THE SOUTH FACE OF COOK PLANT DRIVE OVERPASS BRIDGE

CONTROL POINT# 719
 DESCRIPTION: SET 5/8" X 36" REROD WITH SPICER TRAVERSE CAP IN EAST RIGHT OF WAY OF EASTBOUND I-94, 200'+/- NORTH OF COOK PLANT DRIVE OVERPASS.
 STATION: 755+92.60 OFFSET: 72.302
 COORDINATES: N: 182050.557 E: 12531367.266 Z: 610.895
 STANDARD DEVIATIONS (95%): N: 0.008 E: 0.010 Z: 0.025963
 COMBINED SCALE FACTOR: 1.00000708584000
WITNESSES:
 1. S.67°E. 78 FT. TO FACE OF FENCE LINE
 2. S.24°W. 220 FT. TO NORTH FACE OF COOK PLANT DRIVE OVERPASS BRIDGE
 3. N.31°E. 484 FT. TO FACE OF BILLBOARD

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								 	NO SCALE	DATE: 08/03/16	CS: 11015	SURVEY INFORMATION SHEET		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: WILCOX	JN: 119672A	I-94 EB	I94EB SURVEY 001	SECT 1	
										FILE: S-119672C_Survey_Info_Sheet_001.doc	TSC: KALAMAZOO	BERRIEN COUNTY		6	

BM 804 – SET GEAR SPIKE IN NORTHWEST FACE OF MILE MARKER POST 16/.8, 10' EAST OF EAST EDGE OF BIT.
 STATION: 628+36.19 OFFSET: 79.1951
 COORDINATES: N: 170682.564 E: 12525568.993 Z: 649.475
 STANDARD DEVIATIONS (95%): Z: 0.030382
WITNESSES:
 1. N.63°W. 11 FT. TO EDGE OF BITUMINOUS SHOULDER
 2. N.02°E. 14 FT. TO DELINEATOR POST
 3. S.33°W. 193 FT. TO DELINEATOR POST

BM 805 – SET GEAR SPIKE IN WEST FACE OF 10" OAK TREE. 50'+/- EAST OF EAST EDGE OF BIT SHOULDER, 2200'+/- NORTH OF LAKE STREET.
 STATION: 634+30.01 OFFSET: 114.7842
 COORDINATES: N: 171194.325 E: 12525872.290 Z: 657.809
 STANDARD DEVIATIONS (95%): Z: 0.029818
WITNESSES:
 1. N.31°W. 48 FT. TO DELINEATOR POST
 2. N.58°W. 46 FT. TO EDGE OF BITUMINOUS SHOULDER
 3. S.08°W. 9 FT. TO 10" OAK TREE

BM 806 – SET CHISELED "+" ON SOUTHEAST CORNER OF SOUTHEAST WING WALL OF BRIDGE OVER GOLF COURSE ROAD.
 STATION: 649+85.48 OFFSET: 75.6870
 COORDINATES: N: 172595.382 E: 12526549.094 Z: 640.094
 STANDARD DEVIATIONS (95%): Z: 0.027986
WITNESSES:
 1. S.85°W. 14 FT. TO CATCH BASIN
 2. N.10°E. 42 FT. TO CATCH BASIN
 3. N.63°W. 16 FT. TO EDGE OF METAL

BM 807 – SET GEAR SPIKE IN WEST FACE OF MILE MARKER POST 17/.4, 10'+/- EAST OF EAST EDGE OF SHOULDER.
 STATION: 659+99.45 OFFSET: 79.3764
 COORDINATES: N: 173495.344 E: 12527016.227 Z: 640.105
 STANDARD DEVIATIONS (95%): Z: 0.026415
WITNESSES:
 1. N.63°W. 11 FT. TO EDGE OF BITUMINOUS SHOULDER
 2. N.08°E. 59 FT. TO DELINEATOR POST
 3. S.33°W. 145 FT. TO DELINEATOR POST

BM 808 – SET GEAR SPIKE IN WEST FACE OF 8" PINE TREE, 60'+/- EAST OF EAST EDGE OF BIT SHOULDER, 150'+/- SOUTH OF MILE MARKER 17/.8 POST.
 STATION: 678+18.75 OFFSET: 117.4697
 COORDINATES: N: 175095.692 E: 12527882.362 Z: 639.950
 STANDARD DEVIATIONS (95%): Z: 0.022478
WITNESSES:
 1. N.60°W. 51 FT. TO EDGE OF BITUMINOUS SHOULDER
 2. N.15°W. 66 FT. TO DELINEATOR POST
 3. S.70°E. 32 FT. TO RIGHT OF WAY FENCE

BM 809 – SET GEAR SPIKE IN WEST FACE OF TWIN 24" OAK TREE, 50'+/- EAST OF EAST EDGE OF BIT SHOULDER, 1000'+/- SOUTH OF LIVINGSTON ROAD.
 STATION: 698+75.64 OFFSET: 115.4136
 COORDINATES: N: 176925.678 E: 12528821.483 Z: 635.510
 STANDARD DEVIATIONS (95%): Z: 0.020290
WITNESSES:
 1. N.64°W. 51 FT. TO EDGE OF BITUMINOUS SHOULDER
 2. S.52°E. 33 FT. TO FENCE CORNER
 3. S.58°E. 40 FT. TO SOUTHWEST LEG OF BILLBOARD SIGN

BM 810 – SET GEAR SPIKE IN NORTHWEST FACE OF MILE MARKER 18/.4 POST, 10'+/- EAST OF EAST EDGE OF BIT SHOULDER.
 STATION: 712+00.71 OFFSET: 80.1203
 COORDINATES: N: 178120.118 E: 12529396.271 Z: 627.287
 STANDARD DEVIATIONS (95%): Z: 0.023084
WITNESSES:
 1. N.57°W. 11 FT. TO EDGE OF BITUMINOUS SHOULDER
 2. S.21°W. 13 FT. TO SOUTH END OF GUARD RAIL
 3. N.53°E. 100 FT. TO 36" RCP

BM 811 – SET GEAR SPIKE IN SOUTHWEST FACE OF MILE MARKER 18/.8 POST, 10'+/- EAST OF EAST EDGE OF BIT SHOULDER.
 STATION: 733+08.92 OFFSET: 79.6586
 COORDINATES: N: 179995.012 E: 12530360.288 Z: 615.370
 STANDARD DEVIATIONS (95%): Z: 0.025537
WITNESSES:
 1. N.57°W. 11 FT. TO EDGE OF BITUMINOUS SHOULDER
 2. S.57°W. 22 FT. TO DELINEATOR POST
 3. N.36°E. 182 FT. TO "NO PARKING" SIGN POST

BM 812 – SET GEAR SPIKE IN SOUTHWEST FACE OF MILE MARKER 19/.8 POST, 10'+/- EAST OF EAST EDGE OF BIT SHOULDER.
 STATION: 786+68.38 OFFSET: 80.2295
 COORDINATES: N: 184981.500 E: 12532319.911 Z: 602.030
 STANDARD DEVIATIONS (95%): Z: 0.023238
WITNESSES:
 1. N.73°W. 12 FT. TO EDGE OF BITUMINOUS SHOULDER
 2. N.73°W. 21 FT. TO EDGE OF METAL
 3. S.28°W. 68 FT. TO DELINEATOR POST



BM 813 – SET GEAR SPIKE IN SOUTHWEST FACE OF MILE MARKER 20/.0 POST, 12'+/- EAST OF EAST EDGE OF BIT SHOULDER.
 STATION: 797+43.63 OFFSET: 80.8189
 COORDINATES: N: 186011.029 E: 12532630.133 Z: 600.622
 STANDARD DEVIATIONS (95%): Z: 0.021185
WITNESSES:
 1. N.74°W. 12 FT. TO EDGE OF BITUMINOUS SHOULDER
 2. N.74°W. 21 FT. TO EDGE OF METAL
 3. N.17°E. 66 FT. TO DELINEATOR POST

BM 814 – SET SPIKE IN NORTHWEST FACE OF MILE MARKER 21/.0 POST, 10'+/- EAST OF EAST EDGE OF BIT SHOULDER.
 STATION: 849+58.94 OFFSET: 80.1581
 COORDINATES: N: 191005.577 E: 12534131.435 Z: 599.234
 STANDARD DEVIATIONS (95%): Z: 0.018232
WITNESSES:
 1. N.76°W. 13 FT. TO EDGE OF BITUMINOUS SHOULDER
 2. N.76°W. 22 FT. TO EDGE OF METAL
 3. N.13°E. 69 FT. TO DELINEATOR POST

BM 815 – SET SPIKE IN SOUTHWEST FACE OF MILE MARKER 21/.4 POST, 10'+/- EAST OF EAST EDGE OF BIT SHOULDER.
 STATION: 870+27.31 OFFSET: 79.1908
 COORDINATES: N: 193000.300 E: 12534701.220 Z: 598.763
 STANDARD DEVIATIONS (95%): Z: 0.010396
WITNESSES:
 1. S.21°E. 17 FT. TO 24" RCP CULVERT
 2. S.56°E. 99 FT. TO 12" CPP CULVERT
 3. N.61°E. 138 FT. TO 15" CPP CULVERT

BM 816 – SET SPIKE IN SOUTHWEST FACE OF MILE MARKER 21/.8 POST, 10'+/- EAST OF EAST EDGE OF BIT SHOULDER.
 STATION: 891+35.77 OFFSET: 88.6994
 COORDINATES: N: 195110.348 E: 12534897.912 Z: 600.337
 STANDARD DEVIATIONS (95%): Z: 0.015095
WITNESSES:
 1. S.90°W. 7 FT. TO EAST EDGE OF BIT SHOULDER
 2. S.33°E. 37 FT. TO 36" RCP CULVERT
 3. S.86°E. 60 FT. TO FACE OF FENCE LINE

BM 817 – SET RAILROAD SPIKE IN WEST FACE OF POWER POLE LOCATED IN THE NORTHEAST QUAD OF JOHN BEERS ROAD AND RAMP TO I-94 EAST BOUND.
 STATION: 878+15.76 OFFSET: 422.4839
 COORDINATES: N: 193751.330 E: 12535166.030 Z: 638.530
 STANDARD DEVIATIONS (95%): Z: 0.012890
WITNESSES:
 1. N.46°E. 13 FT. TO SOUTH END OF 12" CMP CULVERT
 2. N.06°W. 127 FT. TO NORTH END OF 12" CMP CULVERT
 3. S.67°W. 157 FT. TO EAST END OF 12" CMP CULVERT

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								 	NO SCALE	DATE: 08/03/16	CS: 11015	SURVEY INFORMATION SHEET		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: WILCOX	JN: 119672A	I-94 EB	I94EB SURVEY 003	SECT 1	
								FILE: S-119672C_Survey_Info_Sheet_001.doc	TSC: KALAMAZOO	BERRIEN COUNTY			8		

GOVERNMENT CORNERS
(FROM JN113585 IN 2013)

LINCOLN TOWNSHIP T.5S., R.19W.

D13 SOUTH 1/4 CORNER OF SECTION 32, T.5S., R.19W., LINCOLN TOWNSHIP
PT#: 312
DESCRIPTION: FOUND BRASS CAP (B.C.R.C. #27449) IN MONUMENT BOX.
COORDINATES: N= 184598.267 E= 12531593.758
COMBINED SCALE FACTOR: 1.000010516
STATION: 780+92.26 OFFSET: 504.80LT.
WITNESSES:
1. AZ. 95° 84.86' 3 FOOT PIPE WITH BRASS PLATE.
2. AZ. 117° 49.79' FOUND 1 INCH PLUMBER'S PIPE ON HEADWALL.
3. AZ. 144° 20.05' TOP OF HYDRANT.
4. AZ. 334° 53.37' FOUND DOUBLE HEADED NAIL WITH WITNESS TAG E.F.P.P..

E10 EAST 1/4 CORNER OF SECTION 29, T.5S., R.19W., LINCOLN TOWNSHIP
PT#: 303
DESCRIPTION: FOUND BRASS CAP (B.C.R.C. #40159) IN MONUMENT BOX.
COORDINATES: N= 192428.485 E= 12534481.401
COMBINED SCALE FACTOR: 0.999999991
STATION: 864+22.32 OFFSET: 5.65RT.
WITNESSES:
1. AZ. 52° 8.83' SCRIBE ON SOUTHWEST CORNER OF CONCRETE BASE FOR WIRE GUARD POST.
2. AZ. 141° 4.90' SCRIBE ON NORTHWEST CORNER OF CONCRETE BASE FOR WIRE GUARD POST.
3. AZ. 252° 31.33' FOUND MAG NAIL LABELED REF PT.
4. AZ. 342° 40.13' FOUND MAG NAIL LABELED REF PT.

E11 SOUTHEAST CORNER OF SECTION 29, T.5S., R.19W., LINCOLN TOWNSHIP
PT#: 323
DESCRIPTION: FOUND CONCRETE MONUMENT WITH BRASS CAP (B.C.R.C. 2010 – 40159).
COORDINATES: N= 189801.806 E= 12534408.990
COMBINED SCALE FACTOR: 1.000001852
STATION: 838+86.10 OFFSET: 692.62RT.
WITNESSES:
1. AZ. 105° 6.46' FOUND DOUBLE HEADED NAIL WITH WITNESS TAG ON SOUTH SIDE OF UTILITY POLE.
2. AZ. 183° 24.58' SOUTHWEST FACE OF 6 INCH BEECH.
3. AZ. 203° 21.45' FOUND DOUBLE HEADED NAIL WITH WITNESS TAG IN EAST FACE OF 6 INCH PINE.
4. AZ. 283° 8.85' FOUND MAG NAIL IN SOUTH SIDE OF 22 INCH OAK.

E13 SOUTHEAST CORNER OF SECTION 32, T.5S., R.19W., LINCOLN TOWNSHIP
PT#: 302
DESCRIPTION: FOUND 1 INCH PIPE IN MONUMENT BOX.
COORDINATES: N= 184513.007 E= 12534226.558
COMBINED SCALE FACTOR: 1.000003599
STATION: 787+68.83 OFFSET: 2041.02RT.
WITNESSES:
1. AZ. 76° 76.37' FOUND DOUBLE HEADED NAIL WITH WITNESS TAG ON SOUTHEAST FACE OF UTILITY POLE.
2. AZ. 118° 87.74' FOUND DOUBLE HEADED NAIL WITH WITNESS TAG ON SOUTH FACE OF UTILITY POLE.
3. AZ. 169° 86.71' TOP OF HYDRANT.
4. AZ. 337° 29.08' FOUND DOUBLE HEADED NAIL WITH WITNESS TAG ON NORTHEAST FACE OF UTILITY POLE.

F10 CENTER POST OF SECTION 28, T.5S., R.19W., LINCOLN TOWNSHIP
PT#: 301
DESCRIPTION: FOUND 5/8 INCH IRON ROD IN MONUMENT BOX.
COORDINATES: N= 192357.195 E= 12537099.196
COMBINED SCALE FACTOR: 0.999998066
STATION: 869+25.34 OFFSET: 2559.08RT.
WITNESSES:
1. AZ. 77° 85.23' FOUND PK NAIL IN SOUTH FACE OF UTILITY POLE.
2. AZ. 143° 44.92' TOP OF HYDRANT.
3. AZ. 225° 42.92' FOUND PK NAIL IN EAST FACE OF UTILITY POLE.
4. AZ. 321° 37.87' FOUND PK NAIL IN NORTHEAST FACE OF UTILITY POLE.

LAKE TOWNSHIP T.6S., R.19W.

A07 NORTHWEST CORNER OF SECTION 19, T.6S., R.19W., LAKE TOWNSHIP
PT#: 352
DESCRIPTION: MDOT JN79871 – BRASS DISK IN CONCRETE IN THE WEST DRIVE OF 4838 LAKE STREET.
COORDINATES: N= 169288.654 E= 12523896.682
COMBINED SCALE FACTOR: 1.000017549
STATION: 608+31.66 OFFSET: 770.21LT.
WITNESSES:
1. AZ. 18° 49.20' PK NAIL ON SOUTH FACE OF POWER LIGHT POLE.
2. AZ. 137° 66.20' NORTHWEST CORNER OF BOTTOM STEP OF APT A.
3. AZ. 180° 48.70' ELECTRIC POLE.

A09 SOUTHWEST CORNER OF SECTION 19, T.6S., R.19W., LAKE TOWNSHIP
PT#: 366
DESCRIPTION: MDOT JN79871 – STANDARD 36 INCH LONG 1 INCH IRON PIPE WITH BRASS PLATE IN MONUMENT BOX.
COORDINATES: N= 164013.963 E= 12523754.226
COMBINED SCALE FACTOR: 1.000021689
STATION: 555+29.42 OFFSET: 203.01RT.
WITNESSES:
1. AZ. 00° 6.50' STANDARD BRASS CAPPED REMONUMENT IRON PIPE IN MONUMENT BOX.
2. AZ. 144° 21.84' NAIL WITH BRASS TAG IN TOP OF GUARD RAIL POST.
3. AZ. 260° 21.89' NAIL WITH BRASS TAG IN TOP OF GUARD RAIL POST.
4. AZ. 327° 21.33' NAIL WITH BRASS TAG IN TOP OF GUARD RAIL POST.

A10 WEST 1/4 CORNER OF SECTION 30, T.6S., R.19W., LAKE TOWNSHIP
PT#: 367
DESCRIPTION: MDOT JN79871 – STANDARD 3 FOOT BY 3/4 INCH PIPE WITH BRASS REMONUMENTATION CAP IN MONUMENT BOX.
COORDINATES: N= 161370.424 E= 12523672.875
COMBINED SCALE FACTOR: 1.000023787
STATION: OFFSET:
WITNESSES:
1. AZ. 00° 6.92' EAST QUARTER CORNER SETION 25, T6S, R20W, M10.
2. AZ. 71° 112.60' NAIL IN 27 INCH MAPLE.
3. AZ. 259° 24.55' NAIL IN GUARD RAIL POST.
4. AZ. 288° 26.30' PK NAIL IN GUARD RAIL POST.

B07 NORTH 1/4 CORNER OF SECTION 19, T.6S., R.19W., LAKE TOWNSHIP
PT#: 307
DESCRIPTION: FOUND PK NAIL.
COORDINATES: N= 169222.934 E= 12526031.839
COMBINED SCALE FACTOR: 1.000016213
STATION: 617+49.98 OFFSET: 1158.50RT.
WITNESSES MDOT JN79871:
1. AZ. 04° 15.80' TO CENTER OF MANHOLE COVER.
2. AZ. 125° 53.00' FIRE HYDRANT CENTER.
3. AZ. 238° 43.90' NORTHEAST FACE OF LIGHT POLE.
4. AZ. 294° 18.60' TO CENTER OF MANHOLE COVER.

B08 CENTER POST OF SECTION 19, T.6S., R.19W., LAKE TOWNSHIP
PT#: 308
DESCRIPTION: FOUND 1/2" IRON ROD IN MONUMENT BOX.
COORDINATES: N= 166580.411 E= 12525961.991
COMBINED SCALE FACTOR: 1.000017977
STATION: 593+68.22 OFFSET: 2305.24RT.
WITNESSES:
1.
2.
3.
4.

C05 NORTHEAST CORNER OF SECTION 18, T.6S., R.19W., LAKE TOWNSHIP
PT#: 304
DESCRIPTION: FOUND 1 1/2 INCH SQUARE BOLT IN MONUMENT BOX.
COORDINATES: N= 174448.102 E= 12528806.250
COMBINED SCALE FACTOR: 1.000011690
STATION: 676+65.54 OFFSET: 1235.27RT.
WITNESSES:
1. AZ. 59° 57.93' FOUND PK NAIL IN SOUTHEAST FACE OF UTILITY POLE.
2. AZ. 117° 81.81' TOP OF HYDRANT.
3. AZ. 241° 61.57' FOUND PK NAIL IN EAST FACE OF WOOD FENCE POST.
4. AZ. 309° 59.72' FOUND MAG NAIL IN NORTH FACE OF UTILITY POLE.



C06 EAST 1/4 CORNER OF SECTION 18, T.6S., R.19W., LAKE TOWNSHIP
PT#: 305
DESCRIPTION: FOUND 1/2" IRON ROD IN MONUMENT BOX.
COORDINATES: N= 171796.254 E= 12528741.759
COMBINED SCALE FACTOR: 1.000013689
STATION: 652+77.93 OFFSET: 2391.04RT.
WITNESSES:
1. AZ. 39° 52.14' TOP OF HYDRANT.
2. AZ. 128° 28.86' FOUND PK NAIL IN SOUTHWEST FACE OF LIGHT POLE.
3. AZ. 229° 82.36' NORTHEAST FACE OF 22 INCH MAPLE.
4. AZ. 313° 30.36' SET PUNCH DOT IN SOUTHWESST FACE OF 7 FOOT HIGH BLOW OFF PIPE.

D01 NORTH 1/4 CORNER OF SECTION 5, T.6S., R.19W., LAKE TOWNSHIP
PT#: 311
DESCRIPTION: FOUND BRASS CAP (B.C.R.C. #27449) IN MONUMENT BOX.
COORDINATES: N= 184595.706 E= 12531678.579
COMBINED SCALE FACTOR: 1.000010516
STATION: 781+14.24 OFFSET: 422.83LT.
WITNESSES:
1. AZ. 177° 35.80' FOUND NAIL WITH DESC TAG.
2. AZ. 246° 42.56' FOUND 1 INCH PLUMBER'S PIPE ON CONCRETE HEADWALL.
3. AZ. 260° 73.16' TOP OF HYDRANT.
4. AZ. 271° 84.86' 3 FOOT STANDARD PIPE WITH BRASS PLATE.

D02 CENTER POST OF SECTION 5, T.6S., R.19W., LAKE TOWNSHIP
PT#: 399
DESCRIPTION: FOUND SQUARE MONUMENT WITH 1/2 INCH IRON ROD IN CENTER.
COORDINATES: N= 182312.043 E= 12531624.275
COMBINED SCALE FACTOR: 1.000007449
STATION: 759+26.58 OFFSET: 214.05RT.
WITNESSES:
1. AZ. 14° 10.32' SET MAG NAIL WITH WASHER #16937 IN EAST FACE OF 8 INCH BEECH.
2. AZ. 143° 12.99' SET MAG NAIL WITH WASHER #16937 IN NORTHEAST FACE OF 15 INCH BOX ELDER.
3. AZ. 197° 27.93' SET MAG NAIL WITH WASHER #16937 IN EAST FACE OF 12 INCH OAK.
4. AZ. 236° 16.51' SET MAG NAIL WITH WASHER #16937 IN NORTHWEST FACE OF 22 INCH OAK.

D03 SOUTH 1/4 CORNER OF SECTION 5, T.6S., R.19W., LAKE TOWNSHIP
PT#: 317
DESCRIPTION: FOUND 8 INCH BY 6 INCH STONE, NO POINT SET.
COORDINATES: N= 179647.679 E= 12531555.193
COMBINED SCALE FACTOR: 1.000009453
STATION: 735+46.69 OFFSET: 1301.10RT.
WITNESSES:
1. AZ. 63° 50.13' FOUND NAIL IN SOUTHEAST FACE OF 18 INCH MAPLE.
2. AZ. 106° 32.34' FOUND MAG NAIL IN SOUTH FACE OF UTILITY POLE.
3. AZ. 222° 54.07' FOUND NAIL IN EAST FACE OF TWIN 12 INCH MAPLE.
4. AZ. 349° 36.97' FOUND MAG NAIL IN EAST FACE OF 10 INCH PINE POLE.

E01 NORTHEAST CORNER OF SECTION 5, T.6S., R.19W., LAKE TOWNSHIP
PT#: 300
DESCRIPTION: FOUND BRASS CAP (BERRIEN REMON) IN MONUMENT BOX.
COORDINATES: N= 184511.451 E= 12534277.291
COMBINED SCALE FACTOR: 1.000003519
STATION: 787+81.95 OFFSET: 2090.05RT.
WITNESSES:
1. AZ. 44° 32.85' FOUND DOUBLE HEADED NAIL WITH WITNESS TAG.
2. AZ. 142° 45.57' FOUND DOUBLE HEADED NAIL WITH WITNESS TAG.
3. AZ. 201° 86.86' TOP OF HYDRANT.
4. AZ. 295° 69.42' FOUND DOUBLE HEADED NAIL WITH WITNESS TAG.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										 	NO SCALE	DATE: 08/03/16	CS: 11015	SURVEY INFORMATION SHEET		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	DESIGN UNIT: WILCOX	JN: 119672A			I-94 EB	I94EB SURVEY 004	SECT 1			
										FILE: JN_119672C_Survey/InfoSheet_002.doc	TSC: KALAMAZOO	BERRIEN COUNTY			9		

E04 EAST 1/4 CORNER OF SECTION 8, T.6S., R.19W., LAKE TOWNSHIP
 PT#: 306
 DESCRIPTION: FOUND 1/2" INCH IRON ROD IN CUTOUT OF ASPHALT.
 COORDINATES: N= 176910.981 E= 12534119.470
 COMBINED SCALE FACTOR: 1.000008775
 STATION: 722+86.20 OFFSET: 4833.26RT.

WITNESSES:
 1. AZ. 11° 198.48' SET PUNCH IN EAST SIDE OF SANITARY MANHOLE RIM.
 2. AZ. 93° 17.89' SET SCRIBE ON TOP OF 12 INCH CONCRETE CULVERT.
 3. AZ. 208° 79.27' FOUND PK NAIL IN SOUTHEAST FACE OF UTILITY POLE.
 4. AZ. 351° 138.22' FOUND PK NAIL IN EAST FACE OF UTILITY POLE.

LAKE TOWNSHIP T.6S., R.20W.

L09 NORTH 1/4 CORNER OF SECTION 25, T.6S., R.20W., LAKE TOWNSHIP
 PT#: 365
 DESCRIPTION: MDOT JN79871 – 1 1/2 IRON PIPE.
 COORDINATES: N= 164089.027 E= 12521095.807
 COMBINED SCALE FACTOR: 1.000021686
 STATION: 562+18.30 OFFSET: 2365.70LT.

WITNESSES:
 1. AZ. 30° 19.00' PK NAIL IN 19 INCH OAK.
 2. AZ. 64° 21.22' PK NAIL IN 18 INCH OAK.
 3. AZ. 270° 4.55' PK NAIL IN 18 INCH OAK.
 4. AZ. 345° 25.05' PK NAIL IN 17 INCH OAK.

L10 CENTER POST OF SECTION 25, T.6S., R.20W., LAKE TOWNSHIP
 PT#: 361
 DESCRIPTION: MDOT JN79871 – 1 1/2 IRON PIPE IN MONUMENT BOX.
 COORDINATES: N= 161465.869 E= 12521016.836
 COMBINED SCALE FACTOR: 1.000023768
 STATION: OFFSET:

WITNESSES:
 1. AZ. 20° 29.00' PK NAIL ON WEST FACE OF POST.
 2. AZ. 170° 24.65' PK NAIL ON WEST FACE OF POST.
 3. AZ. 232° 29.20' PUNCH MARK ON NORTHEAST RING OF FIRE HYDRANT.
 4. AZ. 338° 28.74' PK NAIL OF NOTHREAST FACE OF APPLE TREE.

M09 NORTHEAST CORNER OF SECTION 25, T.6S., R.20W., LAKE TOWNSHIP
 PT#: 364
 DESCRIPTION: MDOT JN79871 – STANDARD 36 INCH LONG 1 INCH IRON PIPE WITH BRASS PLATE IN MONUMENT BOX.
 COORDINATES: N= 164020.481 E= 12523754.588
 COMBINED SCALE FACTOR: 1.000021684
 STATION: 555+35.67 OFFSET: 204.88 RT.

WITNESSES:
 1. AZ. 150° 27.36' FOUND NAIL WITH BRASS TAG IN TOP OF GUARD RAIL POST.
 2. AZ. 180° 6.50' STANDARD BRASS CAPPED REMONUMENT IRON PIPE IN MONUMENT BOX.
 3. AZ. 242° 24.21' FOUND NAIL WITH BRASS TAG IN TOP OF GUARD RAIL POST.
 4. AZ. 315° 16.24' FOUND NAIL WITH BRASS TAG IN TOP OF GUARD RAIL POST.

M10 EAST 1/4 CORNER OF SECTION 25, T.6S., R.20W., LAKE TOWNSHIP
 PT#: 363
 DESCRIPTION: MDOT JN79871 – STANDARD 36 INCH LONG BY 3/4 INCH PIPE WITH BRASS REMONUMENTATION CAP IN MONUMENT BOX.

COORDINATES: N= 161377.701 E= 12523673.249
 COMBINED SCALE FACTOR: 1.000023782
 STATION: OFFSET:



WITNESSES:
 1. AZ. 03° 62.70' NAIL IN 15 INCH PINE.
 2. AZ. 68° 64.75' CENTER OF HYDRANT.
 3. AZ. 180° 6.92' WEST QUARTER CORNER, SECTION 30, T6S, R19W, A10.
 4. AZ. 244° 26.60' NAIL IN GUARD RAIL POST.
 5. AZ. 273° 24.80' PK NAIL IN GUARD RAIL POST.

M11 SOUTHEAST CORNER OF SECTION 25, T.6S., R.20W., LAKE TOWNSHIP
 PT#: 362

DESCRIPTION: MDOT JN79871 – 3/4 INCH BY 12 INCH PIPE OVER STONE WITH BRASS REMONUMENTATION CAP IN MONUMENT BOX.

COORDINATES: N= 158735.338 E= 12523596.587
 COMBINED SCALE FACTOR: 1.000025895
 STATION: OFFSET:

WITNESSES:
 1. AZ. 40° 55.20' NAIL IN 26 INCH OAK.
 2. AZ. 75° 46.80' NAIL IN 34 INCH OAK.
 3. AZ. 150° 68.70' TAG IN POWER POLE.
 4. AZ. 180° 7.32' A11 CORNER.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								 	NO SCALE	DATE: 08/03/16	CS: 11015	SURVEY INFORMATION SHEET I-94 EB BERRIEN COUNTY	DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: WILCOX	JN: 119672A		I94EB SURVEY 005	SECT 1
FILE: JN_119672C_SurveyInfoSheet_002.doc										TSC: KALAMAZOO			10	

SURVEY

GENERAL

- △ CP ALIGNMENT POINT MONUMENT
- ⊗ MONUMENT BOX

CONTROL

- △ CP CONTROL POINT
- BM BENCHMARK
- △ REFERENCE - GPS
- △ REFERENCE - NGS
- + REFERENCE - USGS

BOUNDARY

- CITY LIMIT - MAP
- CITY LIMIT
- PARCEL-L PARCEL - LEGAL
- PARCEL-NL PARCEL - NON-LEGAL
- PLAT-L PLAT - LEGAL
- PLAT-NL PLAT - NON-LEGAL
- ROW - FREE ACCESS
- ROW - LIMITED ACCESS
- SEC - SECTION LINE
- SEC 1/4 - SECTION LINE - QUARTER
- SEC 1/8 - SECTION LINE - EIGHTH
- SEC 1/16 - SECTION LINE - SIXTEENTH
- TOWNSHIP LINE (MAP)
- CONCRETE MONUMENT
- CONTIGUOUS PROPERTY SYMBOL
- PARCEL CORNER - CAPPED IRON
- PARCEL CORNER - IRON PIN
- PARCEL CORNER - IRON PIPE
- PARCEL CORNER - NO ID
- PARCEL NUMBER BOX
- PLAT CORNER
- PROPERTY OWNERSHIP ARROW
- PROPERTY OWNERSHIP ARROW - DOUBLE
- ROW MONUMENT
- SECTION CORNER - CENTER
- SECTION CORNER - MEANDER
- SECTION CORNER - QUARTER
- SECTION CORNER - QUARTER-HALF
- SECTION CORNER - SECTION
- SECTION CORNER - SECTION-HALF
- SECTION CORNER - SIXTEENTH
- SECTION CORNER - WITNESS

MONUMENT PRESERVATION

- PRESERVE MONUMENT
- PROTECT MONUMENT

GENERAL LABELING

GENERAL

- LEFT TURN ARROW
- TRAFFIC FLOW ARROW

REMOVAL

- ABANDON
- BULKHEAD
- CLEARING
- REMOVE
- SALVAGE
- SAVE

CONSTRUCTION

- ADJUST
- ADJUST - STRUC COVER WITH TYPE
- ADJUST - BY OTHERS

REMOVAL AND CONSTRUCTION

- RELOCATE - WITH CASE NUMBER
- RELOCATE - BY OTHERS

CONSTRUCTION LIMITS

- SLOPE STAKE LINE

BORINGS

- BORING

STRUCTURES

- BEAM UNDERCLEARANCE
- REFERENCE POINT
- STRUCTURE NO. + CONTROL SEC. LABEL

VEGETATION

- BRUSH LINE
- HEDGE LINE
- TREE LINE - CANOPY OR TRUNK
- TREE LINE - TRUNK
- SHRUB
- TREE - CONIFER
- TREE - DECIDUOUS
- TREE - STUMP

ENVIRONMENTAL

- EROSION CONTROL - SILT FENCE
- WETLAND - LEGAL
- WETLAND - NON-LEGAL
- CONTAMINATION - MONITORING WELL
- EROSION CONTROL NUMBER
- EROSION CONTROL - RIPRAP
- WATER TABLE - PLAN NOTE
- WETLAND - SPOT EL
- POTENTIALLY CONTAMINATED SITE

ROADSIDE / SITE

- ANTENNA
- BIG ROCK
- FLAG POLE
- PICNIC STOVE
- PICNIC TABLE
- SATELLITE DISH

NOTE:

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

RAILROAD

- TRACK
- CROSSING - GATE
- CROSSING - SIGNAL BOX
- CROSSING - SIGNAL FLASHING
- CROSSING - SYMBOL

SIGNS

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

MAINTAINING TRAFFIC

- TYPE III BARRICADE
- CHANNELIZING DEVICE - CONE
- CHANNELIZING DEVICE - DRUM
- LIGHT - HIGH INTENSITY TYPE B
- LIGHT - STEADY BURN TYPE C
- LIGHTED ARROW PANEL - BAR
- LIGHTED ARROW PANEL
- PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC REGULATOR
- TEMPORARY SIGN
- TEMPORARY TRAFFIC SIGNAL

- WORK AREA

BARRIERS

- CABLE BARRIER - NOT TO SCALE
- CABLE BARRIER - TRUE SCALE
- CONCRETE BARRIER - DOUBLE FACE
- CONCRETE BARRIER - SINGLE FACE
- FENCE
- GUARDRAIL - NOT TO SCALE
- GUARDRAIL - TRUE SCALE
- NOISE BARRIER
- FENCE POST
- GUARDRAIL RUN NUMBER
- IMPACT ATTENUATOR
- POST - MAILBOX
- POST - NO ID

SURFACING

REMOVAL

- CONCRETE RUBBLIZING OR HMA CRUSH & SHAPE
- HMA COLDMILLING
- HMA SURFACE REMOVAL AND / OR PAVEMENT REMOVAL

PROPOSED

- AGGREGATE APPROACH
- BRIDGE APPROACH
- HMA APPROACH
- MISCELLANEOUS CONCRETE

SIDEWALK

- SIDEWALK - REMOVAL
- SIDEWALK - CONCRETE RAMP
- SIDEWALK - DETECT. WARNING SURF.
- SIDEWALK - LANDING
- SIDEWALK - RAMP LABEL

TYPICAL SECTION

- CONCRETE - PROPOSED
- HMA - PROPOSED

CURB & GUTTER

- CURB & GUTTER REMOVAL

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



NO SCALE

FILE: 119672 194EB LEGEND 001.dgn

DATE: 08/03/16

DESIGN UNIT: WILCOX

TSC: KALAMAZOO

CS: 11015

JN: 119672A

LEGEND SHEET

EB 1-94

DRAWING SHEET

194EB LEGEND 001

SECT 1 11

ELECTRICAL

- CONTROLLER CABINET - PAD MOUNTED
- HANDHOLE
- MANHOLE
- POLE UTILITY - EXISTING
- POLE UTILITY
- TRANSFORMER - PAD MOUNTED
- TRANSFORMER - POLE MOUNTED
- E — CABLE
- x- E -x- CABLE - TO BE REMOVED
- E-OH — CABLE OVERHEAD
- x- E-OH -x- CABLE OVERHEAD - TO BE REMOVED
- I — E — I — CABLE IN CONDUIT
- x- I — E — I -x- CABLE IN CONDUIT - TO BE REMOVED
- CABLE IN CONDUIT - DIRECTIONAL BORE

ARCHITECTURAL

- EXIT SIGN WITH EMERGENCY LIGHT
- LIGHT RECESSED FIXTURE
- MOTOR
- OUTLET BOX
- OUTLET SINGLE
- OUTLET TELEPHONE
- SERVICE DISCONNECT
- SERVICE METER
- SWITCH
- SWITCH THREE WAY
- WALL BRACKET FIXTURE

LIGHTING

- CONTROL PANEL - EXISTING
- CONTROL PANEL
- * R&S LIGHT STANDARD EXISTING - TO BE REMOVED & SALVAGED
- *-o-* LIGHT STANDARD DOUBLE ARM - EXISTING
- *-●-* LIGHT STANDARD DOUBLE ARM
- * LIGHT STANDARD POST TOP - EXISTING
- * LIGHT STANDARD POST TOP
- *-o LIGHT STANDARD SINGLE ARM - EXISTING
- *-● LIGHT STANDARD SINGLE ARM
- LIGHT POLE - TEMPORARY
- LUMINAIRE WALL MOUNTED UNDERBRIDGE - EXISTING
- LUMINAIRE WALL MOUNTED UNDERBRIDGE
- T- TOWER LIGHTING UNIT - EXISTING
- ⊕-T- TOWER LIGHTING UNIT

ITS / SIGNALS

- DYNAMIC MESSAGE SIGN - EXISTING
- DYNAMIC MESSAGE SIGN
- ENVIRONMENTAL SENSOR STATION SITE
- FIBER OPTIC SPLICE CABINET
- HANDHOLE, ROUND, 3 FOOT DIAMETER
- HANDHOLE, ROUND, COMMUNICATIONS
- HANDHOLE, ROUND, ELECTRIC
- HANDHOLE, TYPE D
- ITS CABINET - EXISTING
- ITS CABINET
- MICROWAVE VEHICLE DETECTION SYSTEM - EXISTING
- MICROWAVE VEHICLE DETECTION SYSTEM
- MICROWAVE VEHICLE DETECTION SYSTEM ZONE COVERAGE - EXISTING
- MICROWAVE VEHICLE DETECTION SYSTEM ZONE COVERAGE
- SPUN CONCRETE POLE - EXISTING
- SPUN CONCRETE POLE
- SURVEILLANCE SYSTEM - EXISTING
- SURVEILLANCE SYSTEM
- WIRELESS LINK - EXISTING
- WIRELESS LINK
- === ITS === COMMUNICATIONS CABLE IN CONDUIT
- === -x- ITS -x- === COMMUNICATIONS CABLE IN CONDUIT - TO BE REMOVED
- 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

CABLING / WIRING DIAGRAM

- CIRCUIT BREAKER
- COILED WIRE
- FUSE
- FUSE SWITCH
- GROUND
- ILLUMINATED CASE SIGN
- METER
- SERVICE DISCONNECT
- SIGNAL HEAD

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

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



NO SCALE

DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
FILE: 119672_194EB_LEGEND_001.dgn	TSC: KALAMAZOO

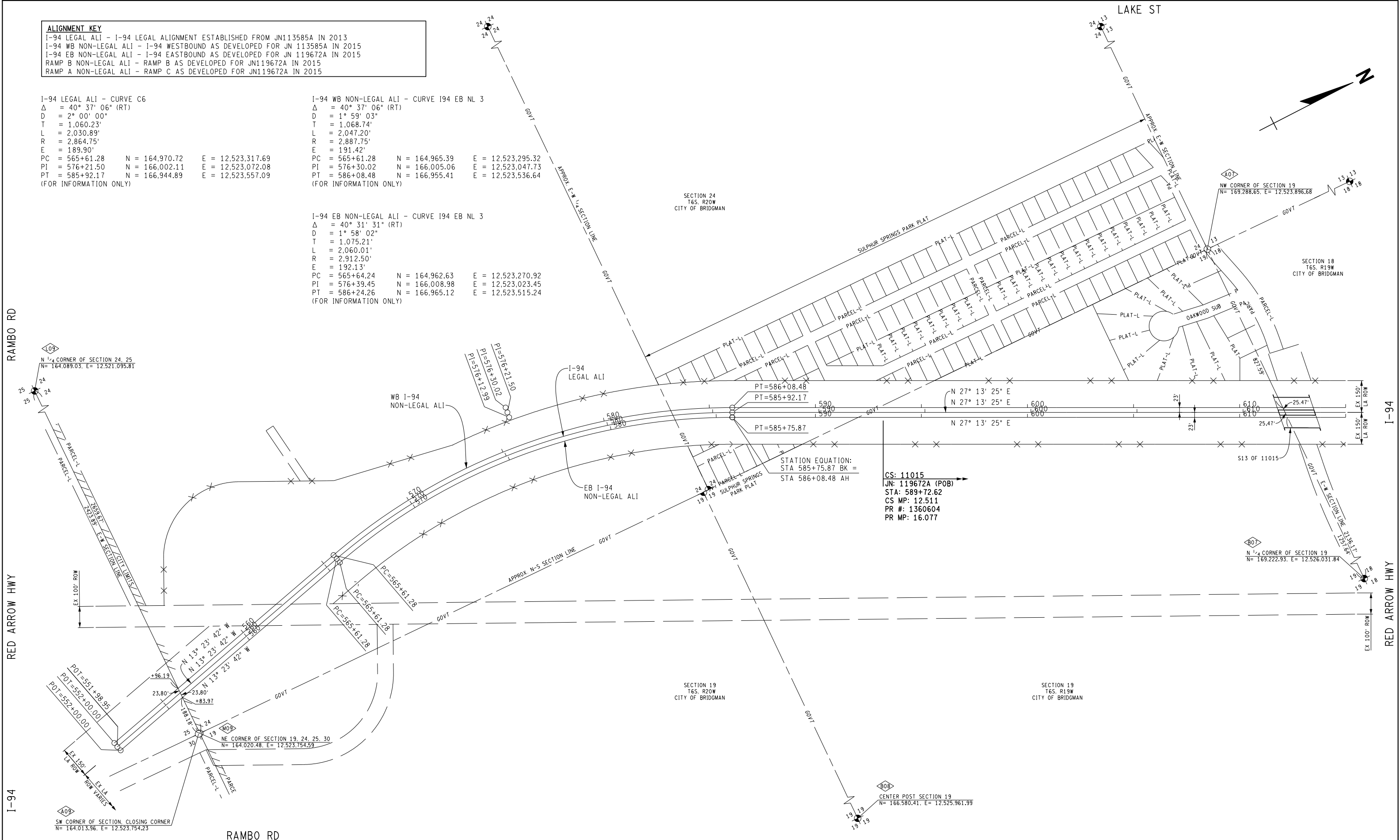
LEGEND SHEET	DRAWING	SHEET
EB 1-94	194EB LEGEND 003	13

ALIGNMENT KEY
 I-94 LEGAL ALI - I-94 LEGAL ALIGNMENT ESTABLISHED FROM JN113585A IN 2013
 I-94 WB NON-LEGAL ALI - I-94 WESTBOUND AS DEVELOPED FOR JN 113585A IN 2015
 I-94 EB NON-LEGAL ALI - I-94 EASTBOUND AS DEVELOPED FOR JN 119672A IN 2015
 RAMP B NON-LEGAL ALI - RAMP B AS DEVELOPED FOR JN119672A IN 2015
 RAMP A NON-LEGAL ALI - RAMP C AS DEVELOPED FOR JN119672A IN 2015

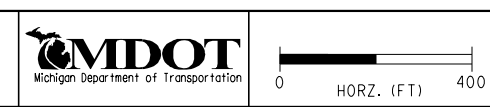
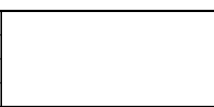
I-94 LEGAL ALI - CURVE C6
 $\Delta = 40^\circ 37' 06''$ (RT)
 $D = 2^\circ 00' 00''$
 $T = 1,060.23'$
 $L = 2,030.89'$
 $R = 2,864.75'$
 $E = 189.90'$
 $PC = 565+61.28$ $N = 164,970.72$ $E = 12,523,317.69$
 $PI = 576+21.50$ $N = 166,002.11$ $E = 12,523,072.08$
 $PT = 585+92.17$ $N = 166,944.89$ $E = 12,523,557.09$
 (FOR INFORMATION ONLY)

I-94 WB NON-LEGAL ALI - CURVE I94 EB NL 3
 $\Delta = 40^\circ 37' 06''$ (RT)
 $D = 1^\circ 59' 03''$
 $T = 1,068.74'$
 $L = 2,047.20'$
 $R = 2,887.75'$
 $E = 191.42'$
 $PC = 565+61.28$ $N = 164,965.39$ $E = 12,523,295.32$
 $PI = 576+30.02$ $N = 166,005.06$ $E = 12,523,047.73$
 $PT = 586+08.48$ $N = 166,955.41$ $E = 12,523,536.64$
 (FOR INFORMATION ONLY)

I-94 EB NON-LEGAL ALI - CURVE I94 EB NL 3
 $\Delta = 40^\circ 31' 31''$ (RT)
 $D = 1^\circ 58' 02''$
 $T = 1,075.21'$
 $L = 2,060.01'$
 $R = 2,912.50'$
 $E = 192.13'$
 $PC = 565+64.24$ $N = 164,962.63$ $E = 12,523,270.92$
 $PI = 576+39.45$ $N = 166,008.98$ $E = 12,523,023.45$
 $PT = 586+24.26$ $N = 166,965.12$ $E = 12,523,515.24$
 (FOR INFORMATION ONLY)



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



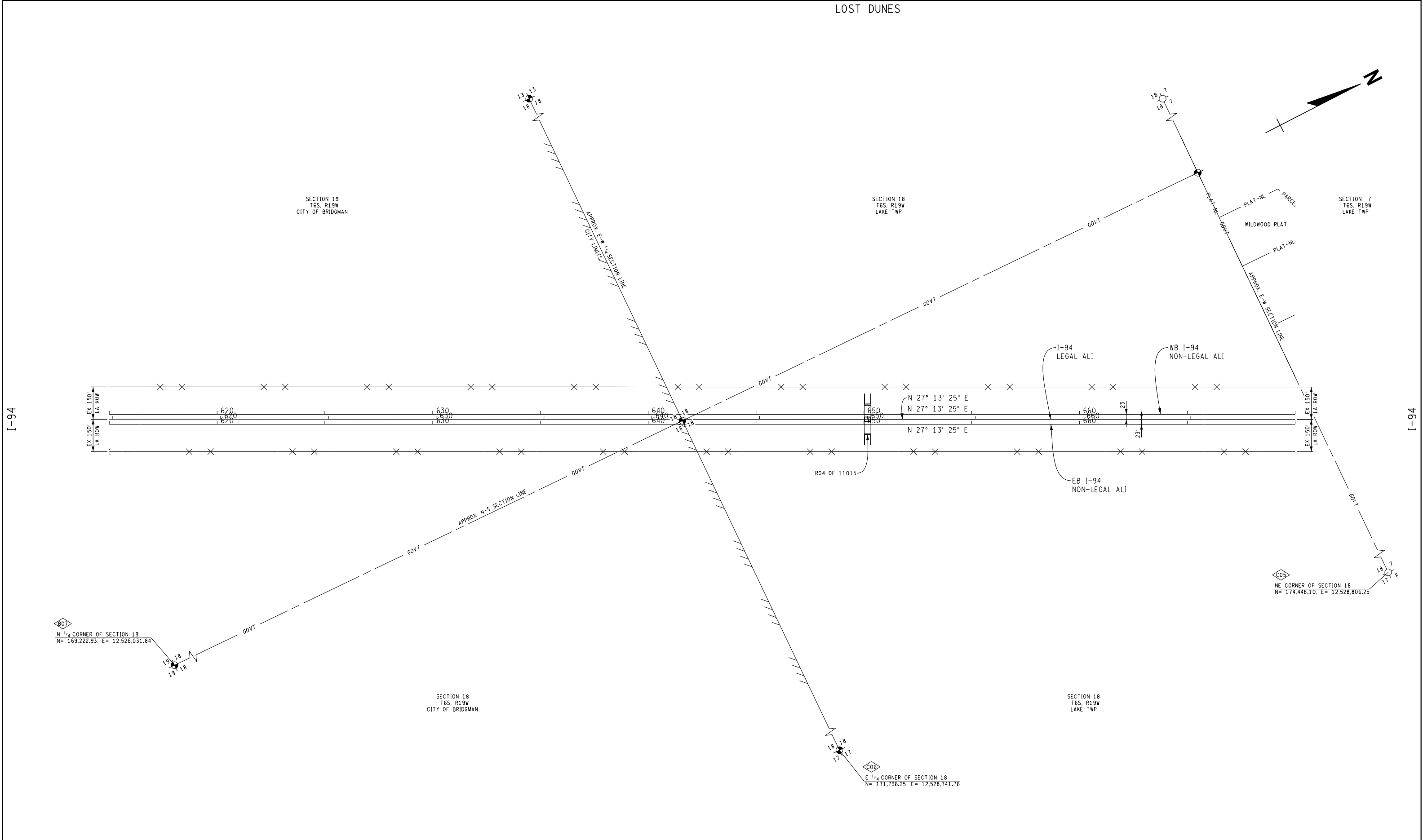
DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_I94EB_ALI_001.dgn

CS: 11015
 JN: 119672A

ALIGNMENT SHEET
 STA 552+00 TO STA 615+00

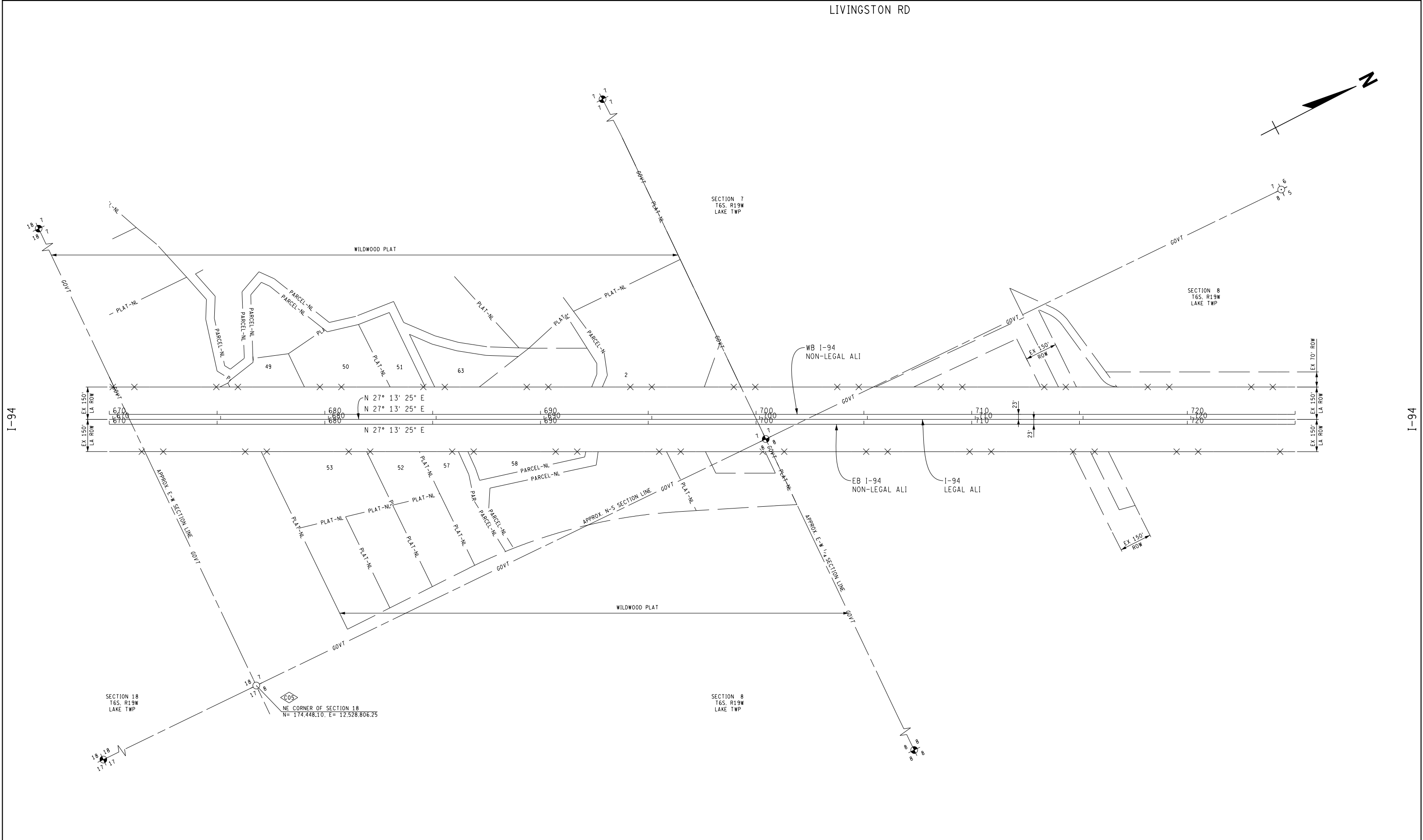
DRAWING SHEET
 194EB ALI 001 SECT 14

LOST DUNES



LOST DUNES

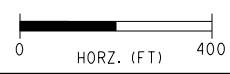
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										DATE: 08/03/16		CS: 11015		ALIGNMENT SHEET		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: WILCOX	JN: 119672A	STA 615+00 TO STA 670+00		194EB ALI 002	SECT 1		
								FILE: 119672_I94EB_ALI_002.dgn	TSC: KALAMAZOO					15			



I-94

I-94

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



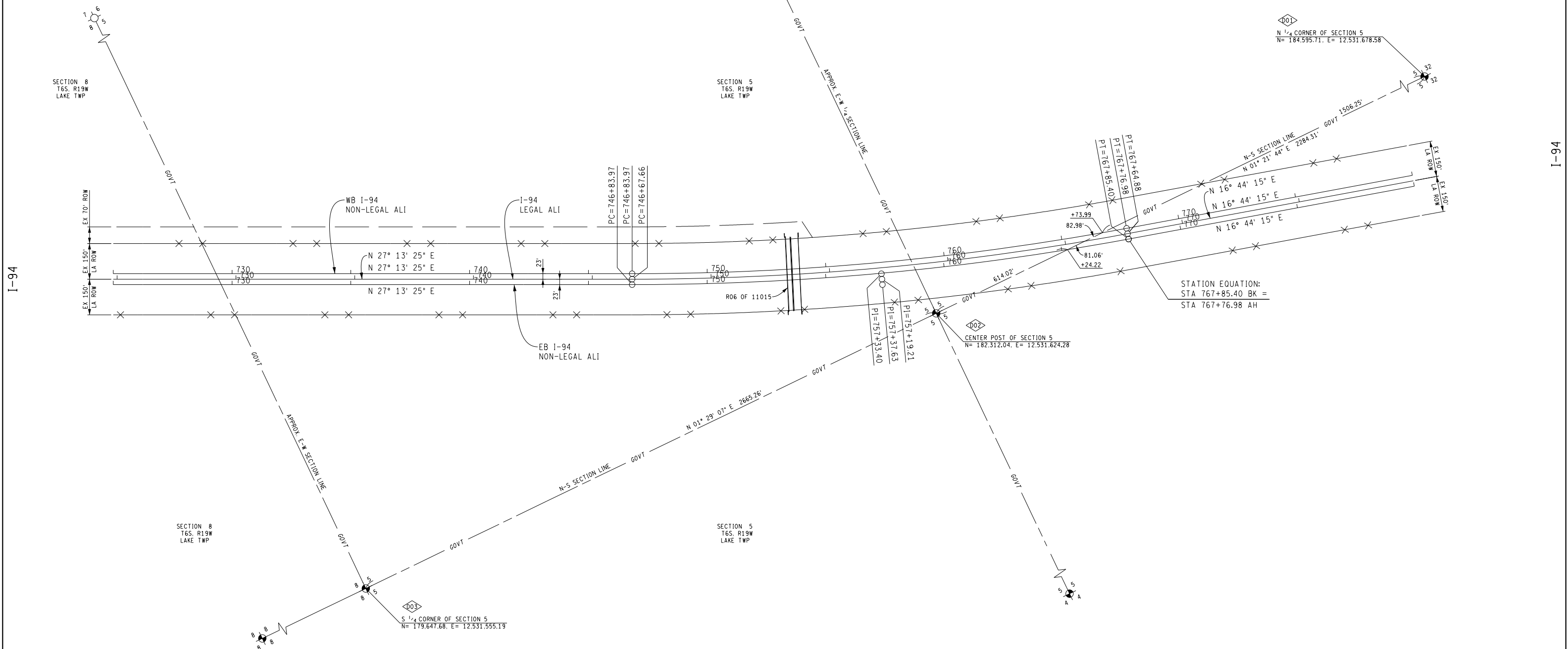
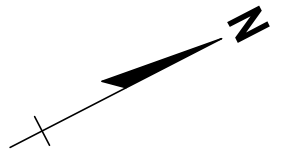
DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
TSC: KALAMAZOO	
FILE: 119672_I94EB_ALI_003.dgn	

ALIGNMENT SHEET	
STA 670+00 TO STA 725+00	

DRAWING	SHEET
194EB ALI 003	SECT 1 16

I-94 EB NON-LEGAL ALI - CURVE I94 EB NL 4
 $\Delta = 10^\circ 29' 10''$ (LT)
 $D = 0^\circ 29' 56''$
 $T = 1,053.66'$
 $L = 2,101.43'$
 $R = 11,482.19'$
 $E = 48.24'$
 $PC = 746+83.97$ $N = 181,229.16$ $E = 12,530,931.48$
 $PI = 757+37.63$ $N = 182,166.10$ $E = 12,531,413.49$
 $PT = 767+85.40$ $N = 183,175.12$ $E = 12,531,716.92$
 $EX\ SUPER = 2.0\%$
 $PROP\ SUPER = 2.1\%$
 $\Delta = 0.30\%$

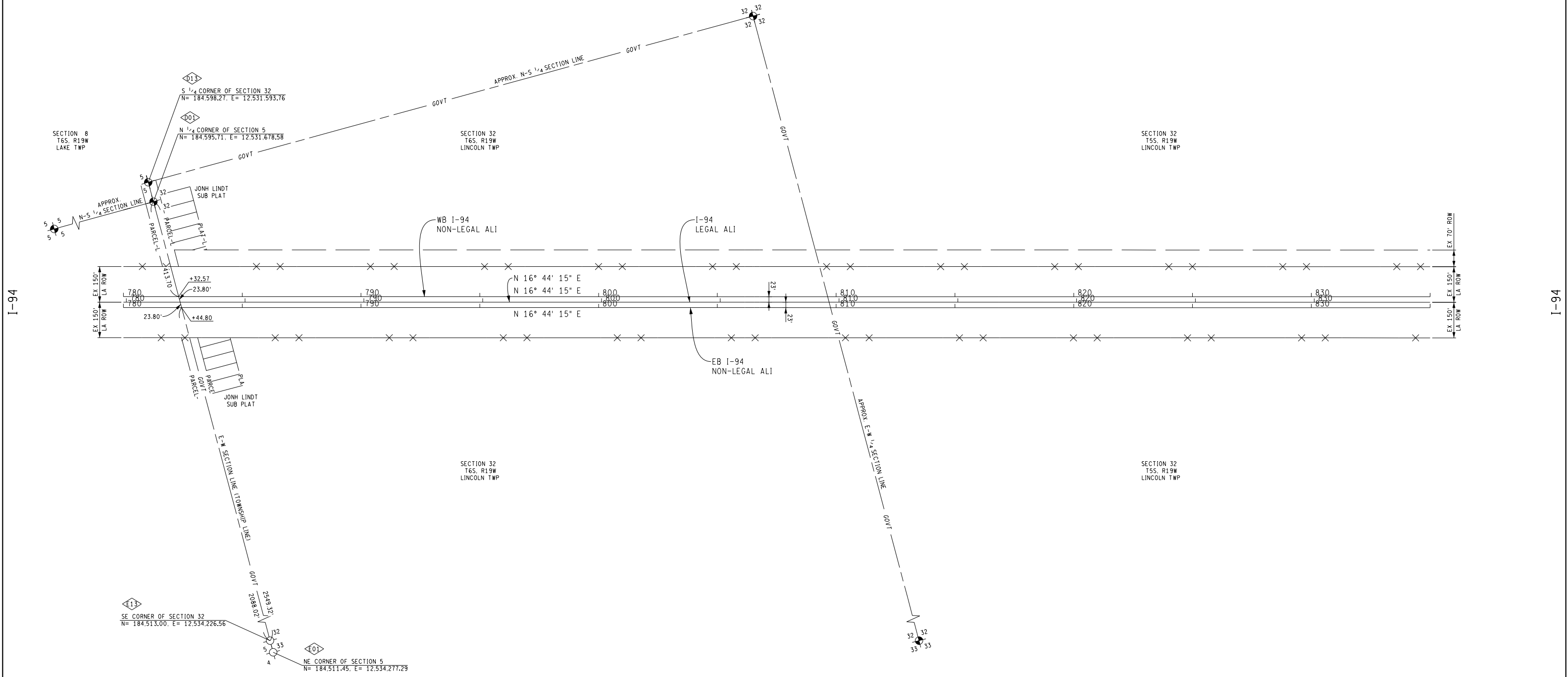
I-94 EB LEGAL ALI - CURVE C7
 $\Delta = 10^\circ 29' 10''$ (LT)
 $D = 0^\circ 30' 00''$
 $T = 1,051.55'$
 $L = 2,097.22'$
 $R = 11,459.19'$
 $E = 48.15'$
 $PC = 746+67.66$ $N = 181,239.68$ $E = 12,530,911.03$
 $PI = 757+19.21$ $N = 182,174.75$ $E = 12,531,392.07$
 $PT = 767+64.88$ $N = 183,181.75$ $E = 12,531,694.90$



I-94

I-94

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								DATE: 08/03/16 DESIGN UNIT: WILCOX TSC: KALAMAZOO	CS: 11015 JN: 119672A	ALIGNMENT SHEET		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE					AUTH	DESCRIPTION		
STA 725+00 TO STA 780+00													

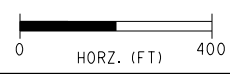


I-94

I-94

WILLOW DR

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



DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
TSC: KALAMAZOO	

ALIGNMENT SHEET		DRAWING	SHEET
STA 780+00 TO STA 835+00		194EB	SECT 1
		ALI	18
		005	

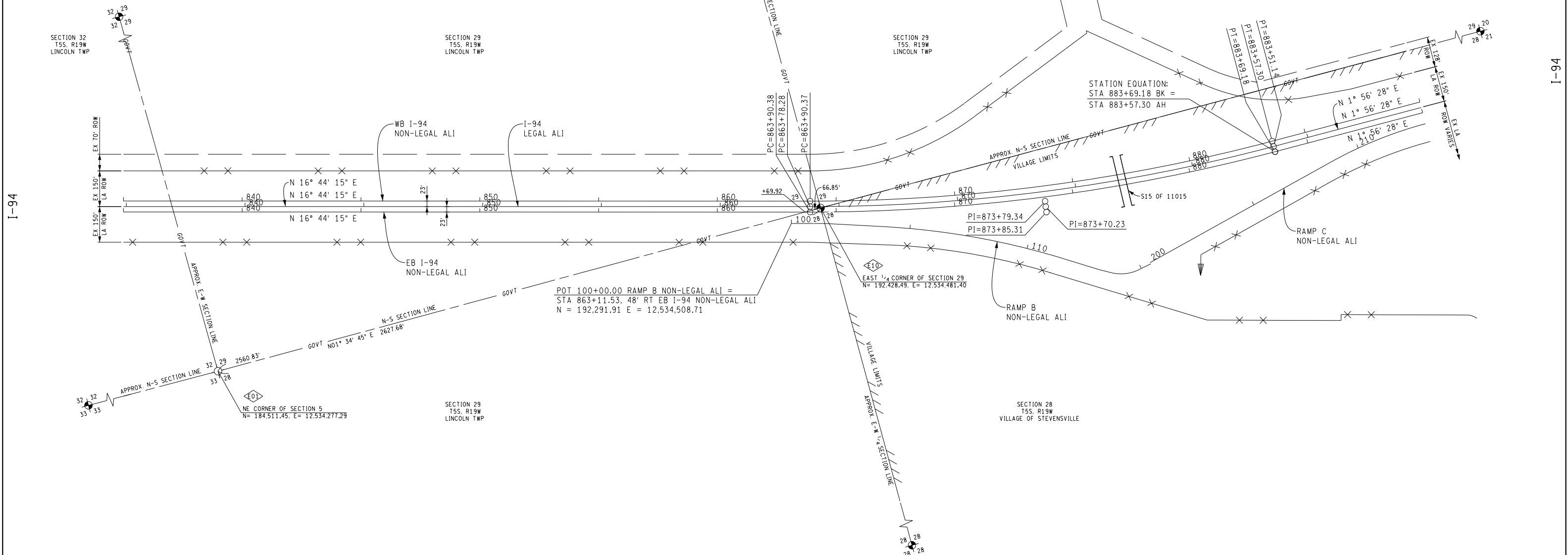
FILE: 119672_I94EB_ALI_005.dgn

I-94 EB NON-LEGAL ALI - CURVE I94 EB NL 5

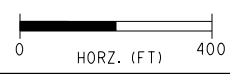
Δ = 14° 47' 47" (LT)
 D = 0° 44' 52"
 T = 994.94'
 L = 1,978.81'
 R = 7,662.49'
 E = 64.32'
 PC = 863+90.38 N = 192,381.24 E = 12,534,485.45
 PI = 873+85.31 N = 193,334.03 E = 12,534,771.98
 PT = 883+69.18 N = 194,328.40 E = 12,534,805.67
 EX SUPER = 2.0%
 PROP SUPER = 3.0%
 Δ = 0.31%

I-94 EB LEGAL ALI - CURVE C8

Δ = 14° 47' 47" (LT)
 D = 0° 45' 00"
 T = 991.95'
 L = 1,972.87'
 R = 7,639.49'
 E = 64.13'
 PC = 863+78.28 N = 192,387.87 E = 12,534,463.42
 PI = 873+70.23 N = 193,337.79 E = 12,534,749.09
 PT = 883+51.14 N = 194,329.18 E = 12,534,782.69



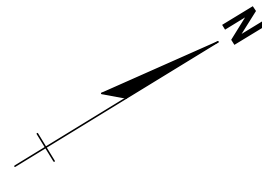
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
TSC: KALAMAZOO	

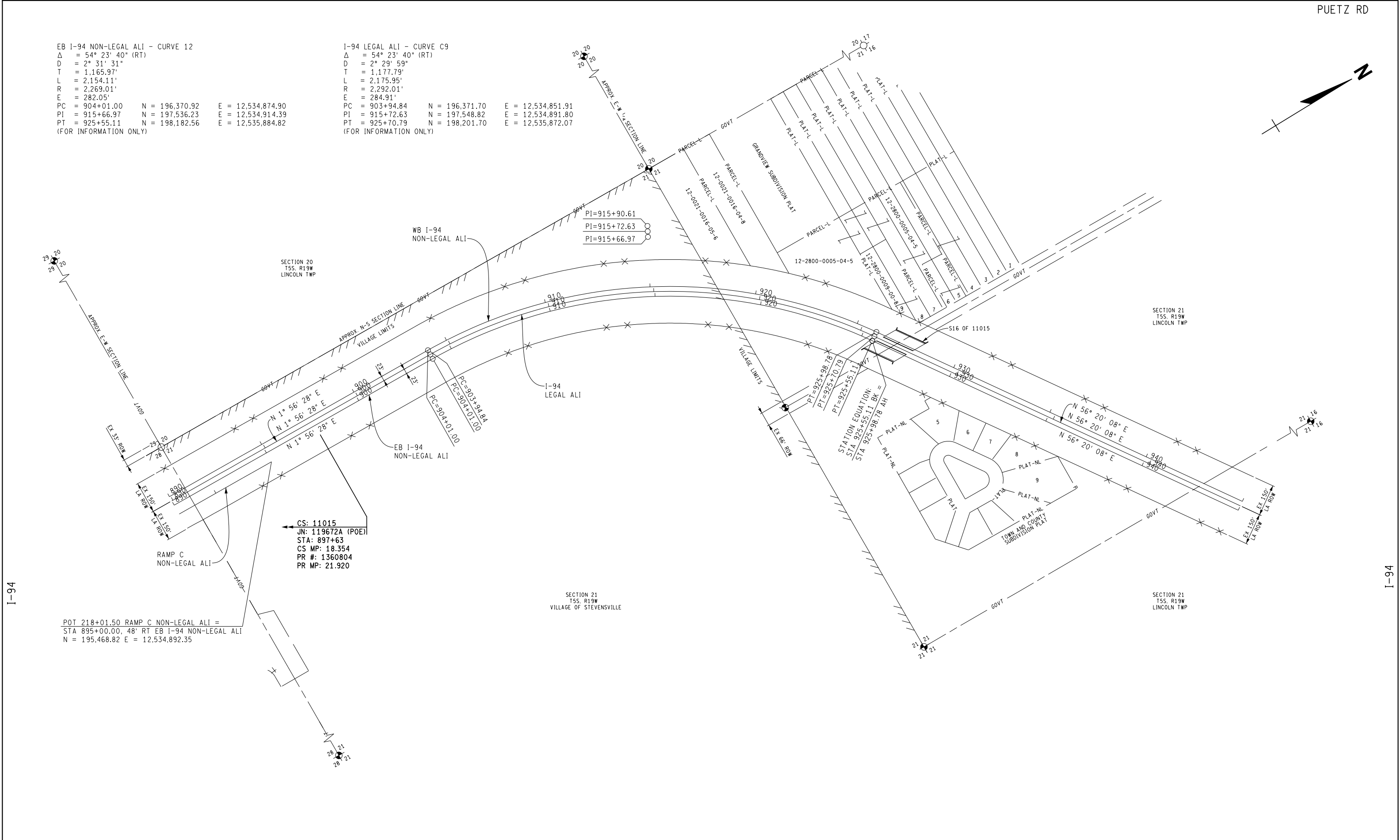
JOHN BEERS RD	
ALIGNMENT SHEET	
STA 835+00 TO STA 890+00	
DRAWING	SHEET
194EB ALI 006	19

FILE: 119672_I94EB_ALI_006.dgn



EB I-94 NON-LEGAL ALI - CURVE 12
 $\Delta = 54^\circ 23' 40''$ (RT)
 $D = 2^\circ 31' 31''$
 $T = 1,165.97'$
 $L = 2,154.11'$
 $R = 2,269.01'$
 $E = 282.05'$
 $PC = 904+01.00$ $N = 196,370.92$ $E = 12,534,874.90$
 $PI = 915+66.97$ $N = 197,536.23$ $E = 12,534,914.39$
 $PT = 925+55.11$ $N = 198,182.56$ $E = 12,535,884.82$
 (FOR INFORMATION ONLY)

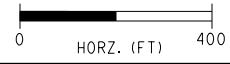
I-94 LEGAL ALI - CURVE C9
 $\Delta = 54^\circ 23' 40''$ (RT)
 $D = 2^\circ 29' 59''$
 $T = 1,177.79'$
 $L = 2,175.95'$
 $R = 2,292.01'$
 $E = 284.91'$
 $PC = 903+94.84$ $N = 196,371.70$ $E = 12,534,851.91$
 $PI = 915+72.63$ $N = 197,548.82$ $E = 12,534,891.80$
 $PT = 925+70.79$ $N = 198,201.70$ $E = 12,535,872.07$
 (FOR INFORMATION ONLY)



POT 218+01.50 RAMP C NON-LEGAL ALI =
 STA 895+00.00, 48' RT EB I-94 NON-LEGAL ALI
 $N = 195,468.82$ $E = 12,534,892.35$

CS: 11015
 JN: 119672A (POE)
 STA: 897+63
 CS MP: 18.354
 PR #: 1360804
 PR MP: 21.920

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



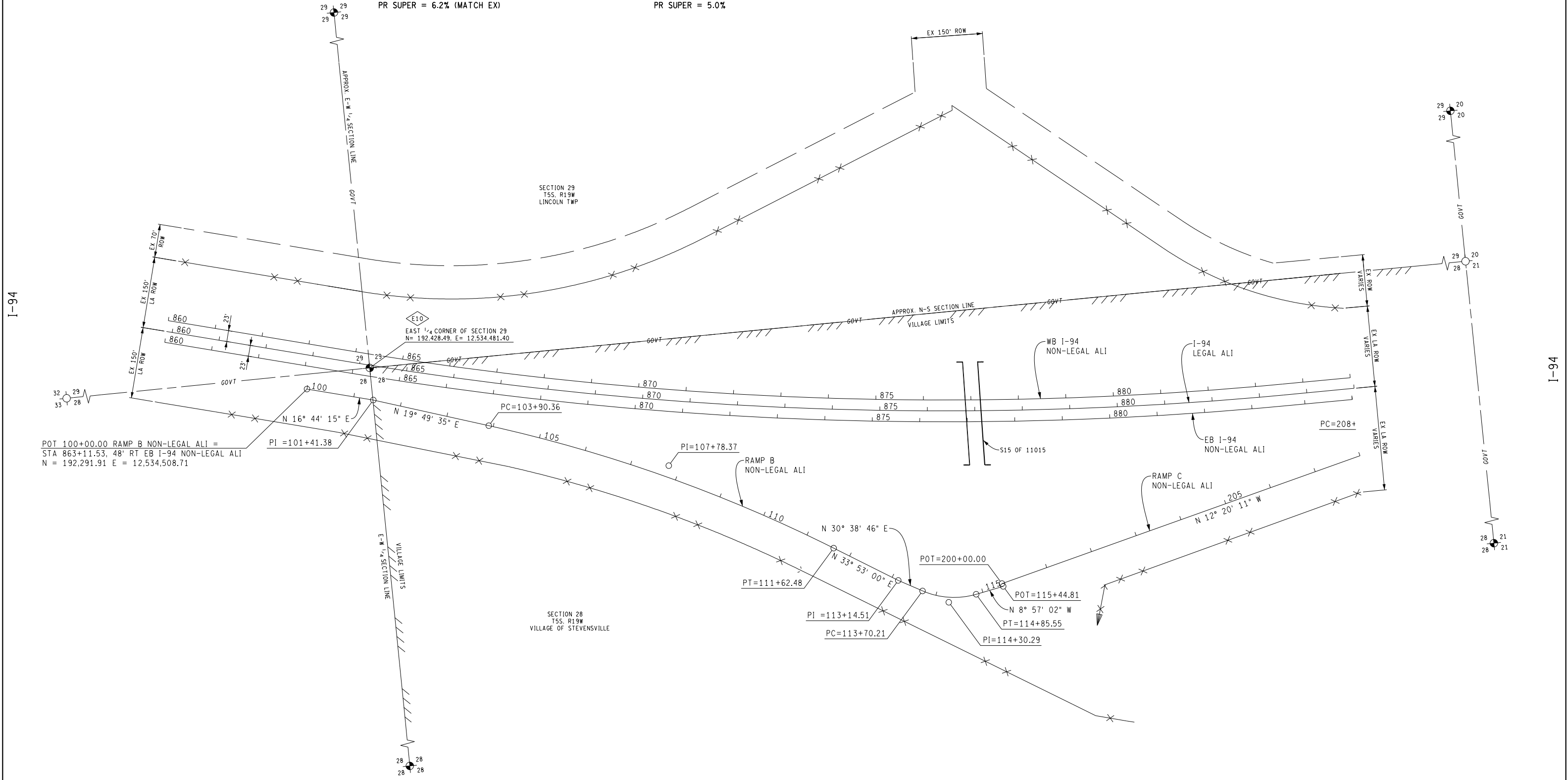
DATE: 08/03/16	CS: 11015	ALIGNMENT SHEET STA 890+00 TO STA 895+00 (POE)	DRAWING	SHEET
DESIGN UNIT: WILCOX	JN: 119672A		194EB ALI 007	SECT 1 20
FILE: 119672_I94EB_ALI_007.dgn		TSC: KALAMAZOO		

GRAND MERE RD



RAMP B NON-LEGAL ALI - CURVE 1
 $\Delta = 14^\circ 03' 25''$ (RT)
 $D = 1^\circ 49' 14''$
 $T = 388.01'$
 $L = 772.12'$
 $R = 3,147.12'$
 $E = 23.83'$
 $PC = 103+90.36$ $N = 192,661.53$ $E = 12,534,633.87$
 $PI = 107+78.37$ $N = 193,026.54$ $E = 12,534,765.47$
 $PT = 111+62.48$ $N = 193,348.65$ $E = 12,534,981.79$
 $EX\ SUPER = 6.2\%$
 $PR\ SUPER = 6.2\%$ (MATCH EX)

RAMP B NON-LEGAL ALI - CURVE 2
 $\Delta = 39^\circ 35' 48''$ (LT)
 $D = 34^\circ 19' 54''$
 $T = 60.08'$
 $L = 115.34'$
 $R = 166.89'$
 $E = 10.48'$
 $PC = 113+70.21$ $N = 193,522.78$ $E = 12,535,094.93$
 $PI = 114+30.29$ $N = 193,574.47$ $E = 12,535,125.56$
 $PT = 114+85.55$ $N = 193,633.82$ $E = 12,535,116.21$
 $EX\ SUPER = 8.0\%$
 $PR\ SUPER = 5.0\%$



POT 100+00.00 RAMP B NON-LEGAL ALI =
 STA 863+11.53, 48' RT EB I-94 NON-LEGAL ALI
 $N = 192,291.91$ $E = 12,534,508.71$

$PI = 101+41.38$

$PC = 103+90.36$

$PI = 107+78.37$

RAMP B NON-LEGAL ALI

POT=200+00.00

POT=115+44.81

PT=114+85.55

$PI = 113+14.51$

$PC = 113+70.21$

$PI = 114+30.29$

RAMP C NON-LEGAL ALI

N 12° 20' 11" W

PC=208+

EB I-94 NON-LEGAL ALI

WB I-94 NON-LEGAL ALI

I-94 LEGAL ALI

SECTION 29
 T5S, R19W
 LINCOLN TWP

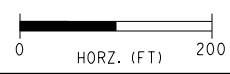
SECTION 28
 T5S, R19W
 VILLAGE OF STEVENSVILLE

I-94

I-94

JOHN BEERS RD

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



DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_RAMP_B_ALI_001.dgn

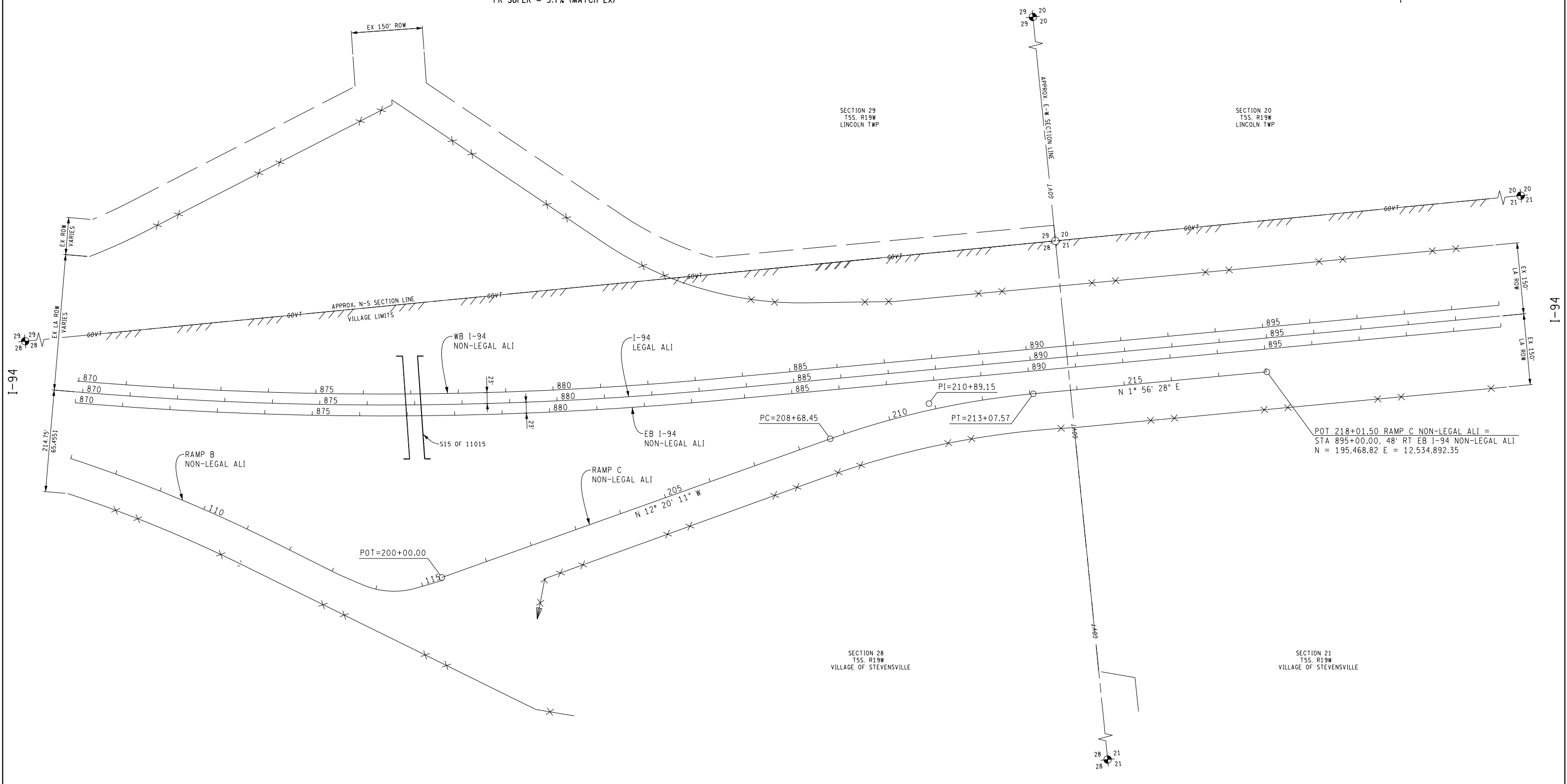
CS: 11015
 JN: 119672A

ALIGNMENT SHEET
 STA 100+00 (POB) TO STA 115+44.84 (POE)
 RAMP B

DRAWING SHEET
 RAMPB ALI 001
 SECT 1
 21

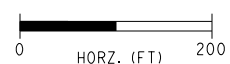
GRAND MERE RD

RAMP C NON-LEGAL ALI - CURVE 2
 $\Delta = 14^\circ 16' 39''$ (RT)
 $D = 3^\circ 15' 05''$
 $T = 220.70'$
 $L = 439.11'$
 $R = 1,762.18'$
 $E = 13.77'$
 $PC = 208+68.45$ $N = 194,539.00$ $E = 12,534,915.30$
 $PI = 210+89.15$ $N = 194,754.60$ $E = 12,534,868.15$
 $PT = 213+07.57$ $N = 194,975.17$ $E = 12,534,875.62$
 $EX \text{ SUPER} = 5.7\%$
 $PR \text{ SUPER} = 5.7\%$ (MATCH EX)



JOHN BEERS RD

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



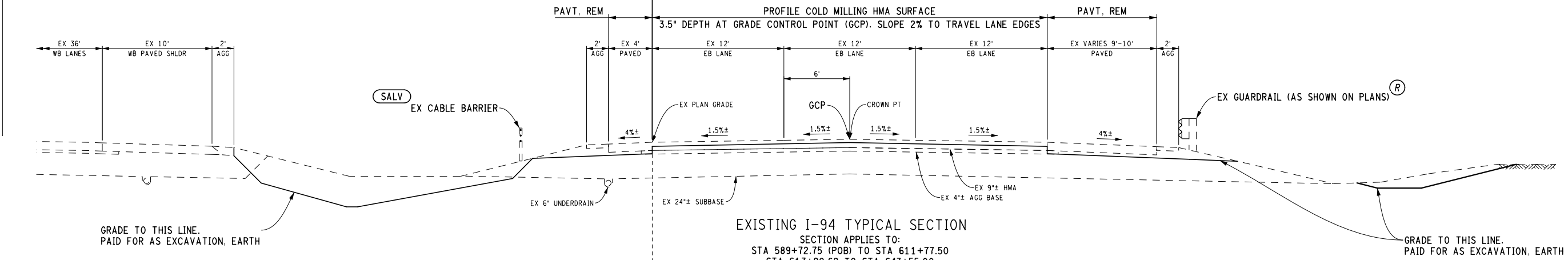
DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_RAMP_C_ALI_001.dgn

CS: 11015
 JN: 119672A

ALIGNMENT SHEET		DRAWING	SHEET
STA 200+00 TO STA 218+01.50 (POE)		RAMP C ALI 001	SECT 1 22
RAMP C			

EX 300' LA ROW

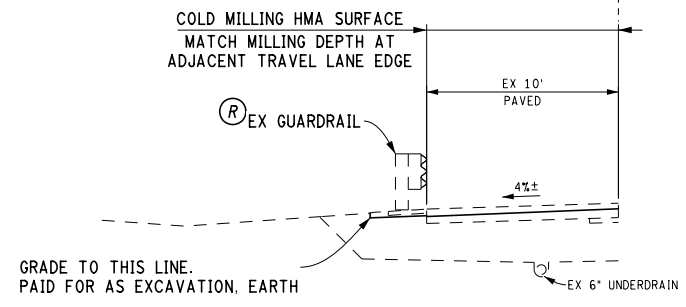
EB I-94
NON-LEGAL ALI



EXISTING I-94 TYPICAL SECTION

SECTION APPLIES TO:
 STA 589+72.75 (POB) TO STA 611+77.50
 STA 613+90.62 TO STA 643+55.00
 STA 656+77.00 TO STA 712+04.20
 STA 716+15.85 TO STA 744+75.97
 STA 769+84.98 TO STA 860+11.53
 STA 886+28.27 TO STA 887+28.59

NOTE:
 GAP S13 OF 11015 STA 611+77.50 TO STA 613+90.62
 NO WORK FROM STA 643+55.00 TO STA 656+77.00



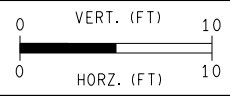
EXISTING I-94 PARTIAL SECTION

SECTION APPLIES TO:
 STA 610+05.45 TO STA 611+77.50
 STA 613+90.62 TO STA 616+78.61

STATION EQUATION: I-94 EB
 STA 767+85.40 BK =
 STA 767+76.98 AH
 LINE LENGTHENS 8.42'

STATION EQUATION: I-94 EB
 STA 883+69.18 BK =
 STA 883+57.30 AH
 LINE LENGTHENS 11.88'

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



DATE: 08/03/16

DESIGN UNIT: WILCOX

TSC: KALAMAZOO

FILE: 119672_194EB_Typicals.dgn

CS: 11015

JN: 119672A

EXISTING TYPICAL SECTION

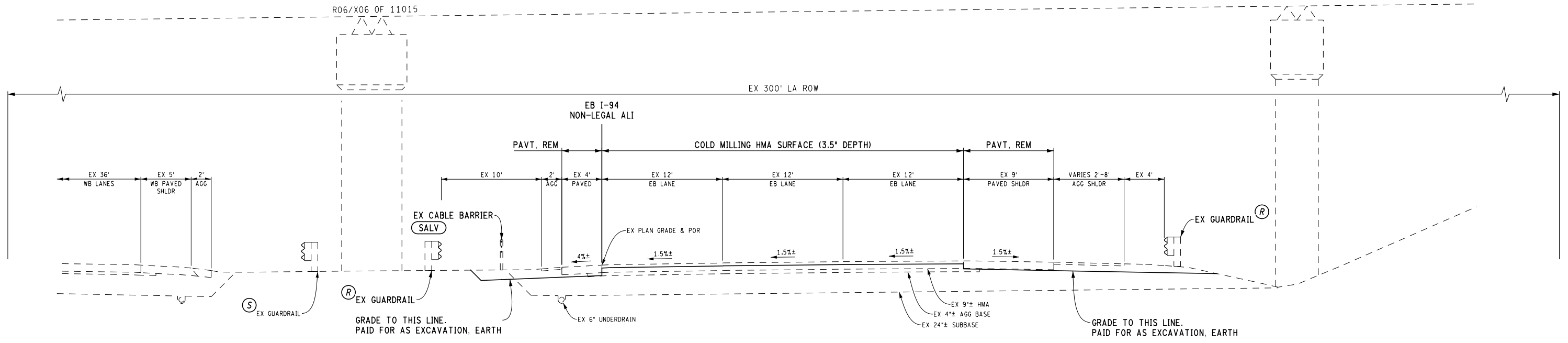
I-94 EB

DRAWING SHEET

194EB TYP 001

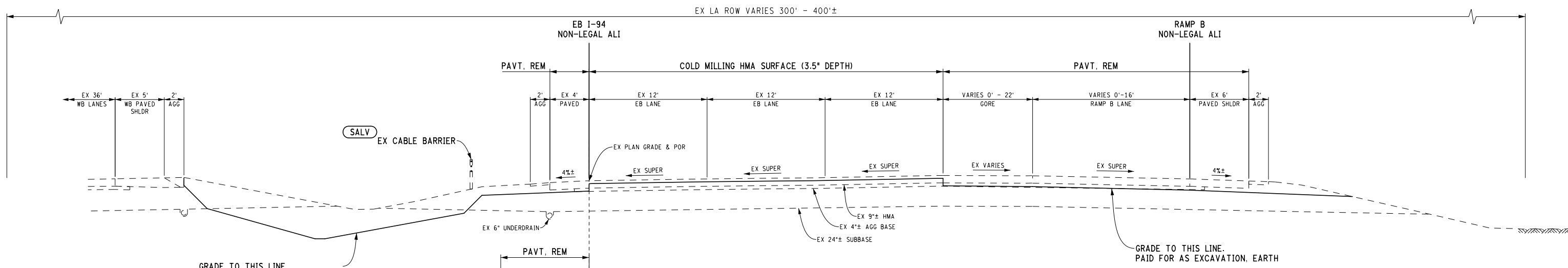
SECT 1

23



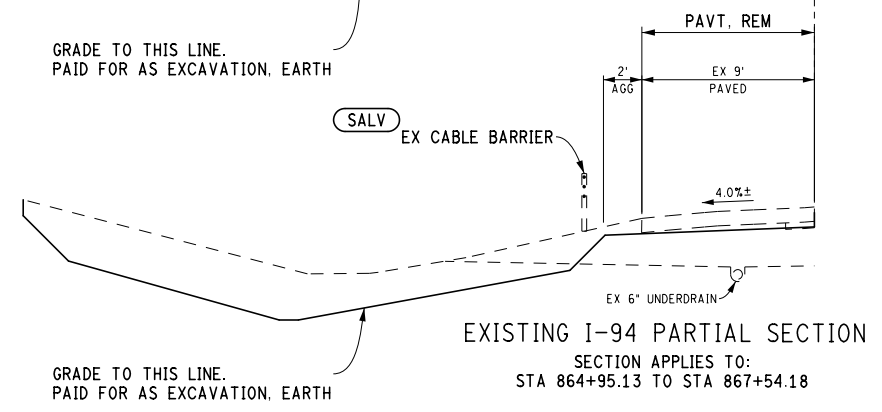
EXISTING I-94 TYPICAL SECTION SUPERELEVATED

SECTION APPLIES TO:
STA 751+82.54 TO STA 754+26.24



EXISTING I-94 TYPICAL SECTION SUPERELEVATED WITH RAMP B GORE

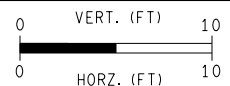
SECTION APPLIES TO:
STA 862+02.57 TO STA 867+54.18



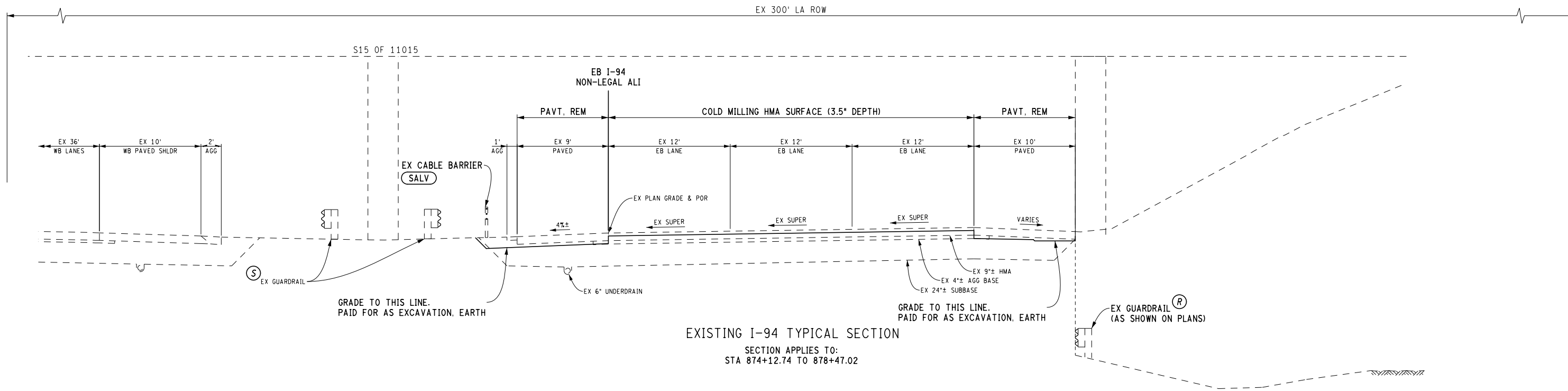
EXISTING I-94 PARTIAL SECTION

SECTION APPLIES TO:
STA 864+95.13 TO STA 867+54.18

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

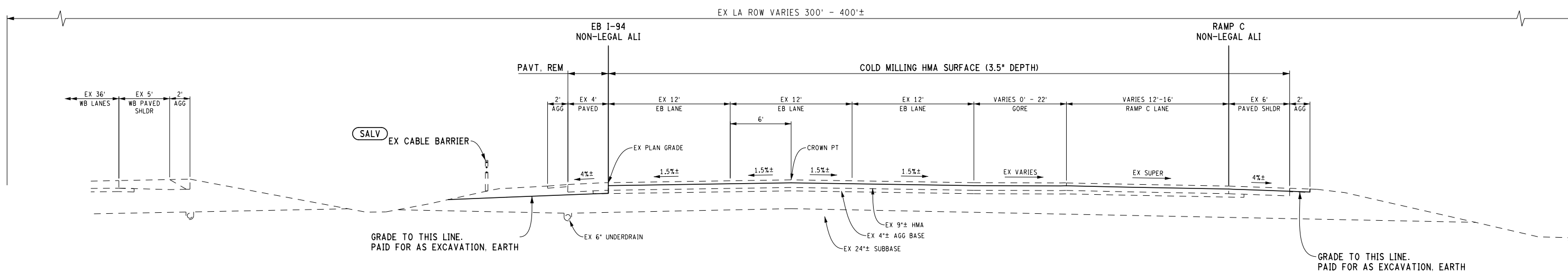


DATE: 08/03/16	CS: 11015	DRAWING SHEET
DESIGN UNIT: WILCOX	JN: 119672A	
TSC: KALAMAZOO	EXISTING TYPICAL SECTION	DRAWING SHEET
FILE: 119672_I94EB_Typicals.dgn	I-94 EB	194EB TYP 003
		SECT 1
		25



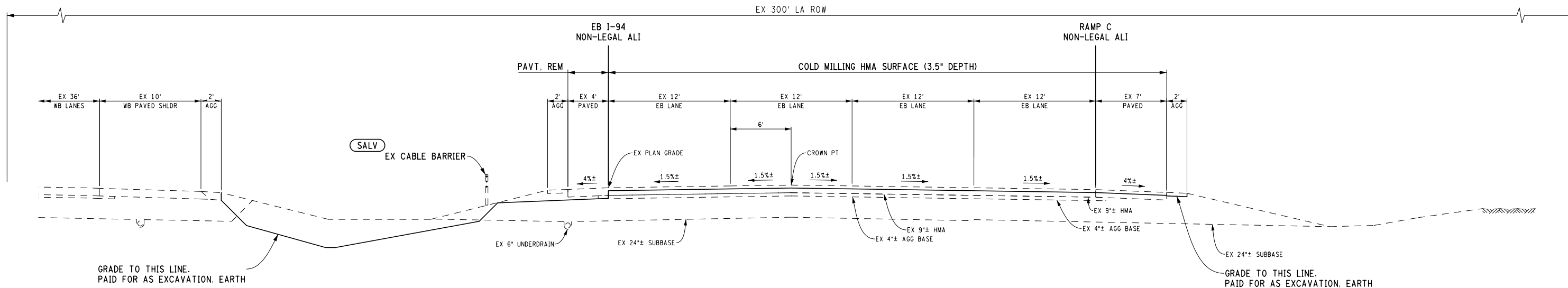
EXISTING I-94 TYPICAL SECTION
SECTION APPLIES TO:
STA 874+12.74 TO 878+47.02

EXISTING PARTIAL SECTION
SECTION APPLIES TO:
STA 874+12.74 TO 877+00.73

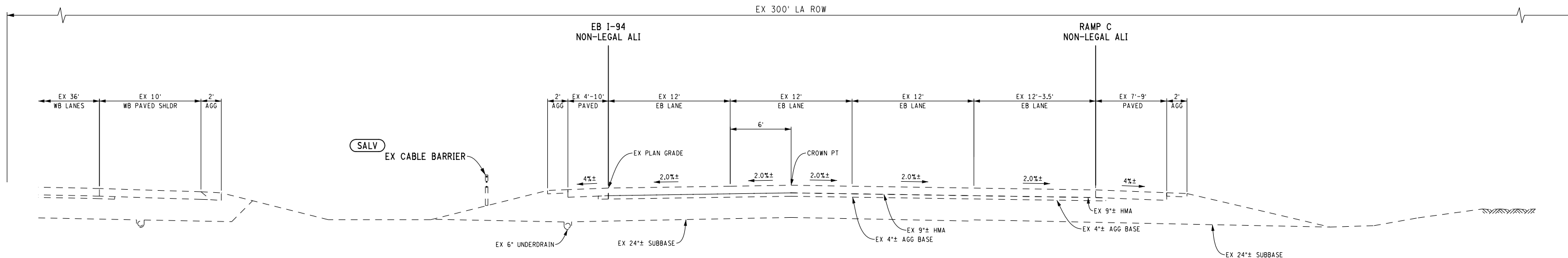


EXISTING I-94 TYPICAL SECTION WITH RAMP C GORE
SECTION APPLIES TO:
STA 887+28.59 TO STA 890+06.07

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							VERT. (FT)		DATE: 08/03/16 DESIGN UNIT: WILCOX TSC: KALAMAZOO	CS: 11015 JN: 119672A	EXISTING TYPICAL SECTION		DRAWING	SHEET		
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE		AUTH	DESCRIPTION			I-94 EB				194EB	SECT 1
											004	26				
								FILE: 119672_194EB_Typicals.dgn								

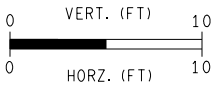


EXISTING I-94 TYPICAL SECTION
SECTION APPLIES TO:
STA 890+06.07 TO STA 895+00



EXISTING I-94 TYPICAL SECTION
SECTION APPLIES TO:
STA 895+00 TO STA 897+63 (POE)

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



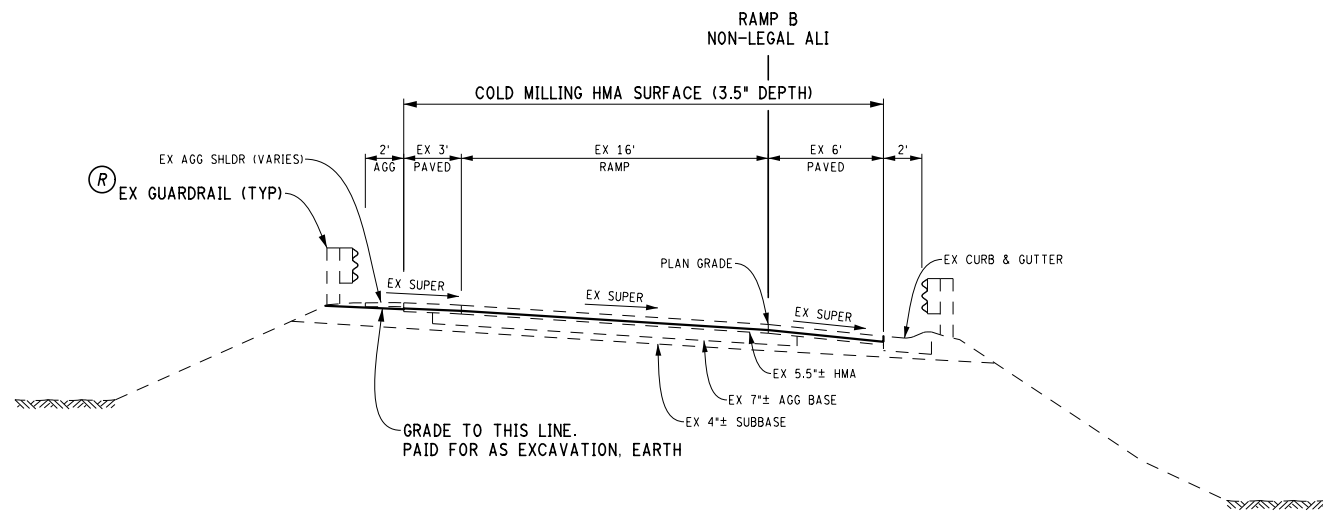
FILE: 119672_194EB_Typicals.dgn

DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

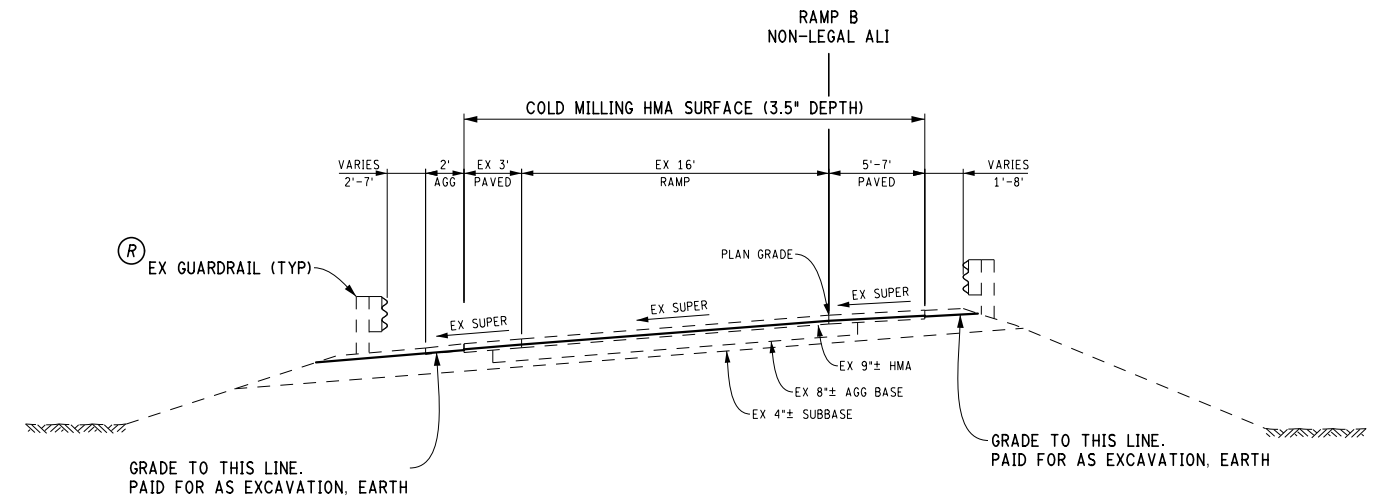
EXISTING TYPICAL SECTION
I-94 EB

DRAWING SHEET
194EB TYP 005
SECT 1
27



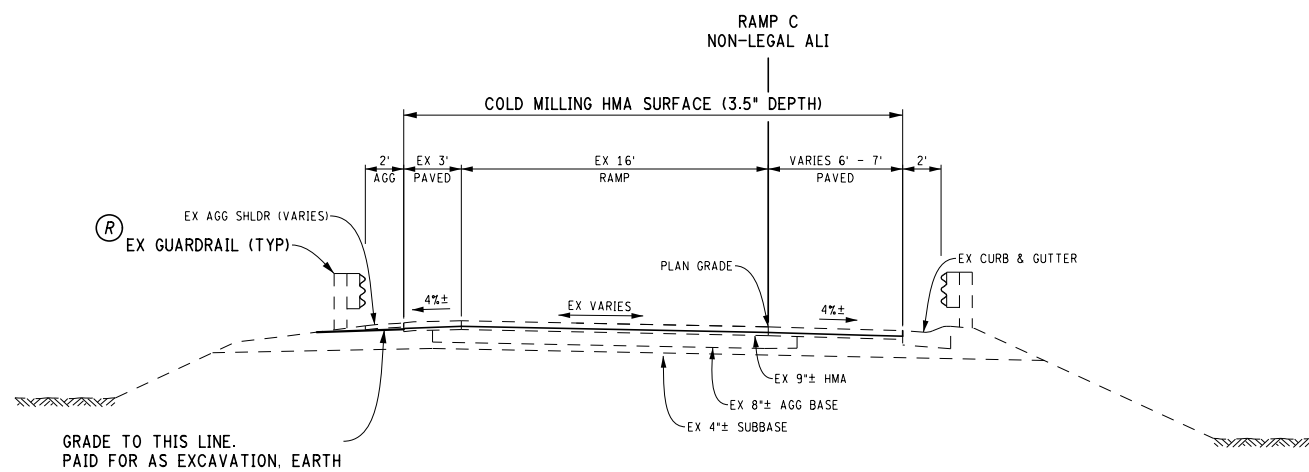
EXISTING RAMP B TYPICAL SECTION SUPERELEVATED

SECTION APPLIES TO:
STA 104+43.36 TO STA 113+14.51



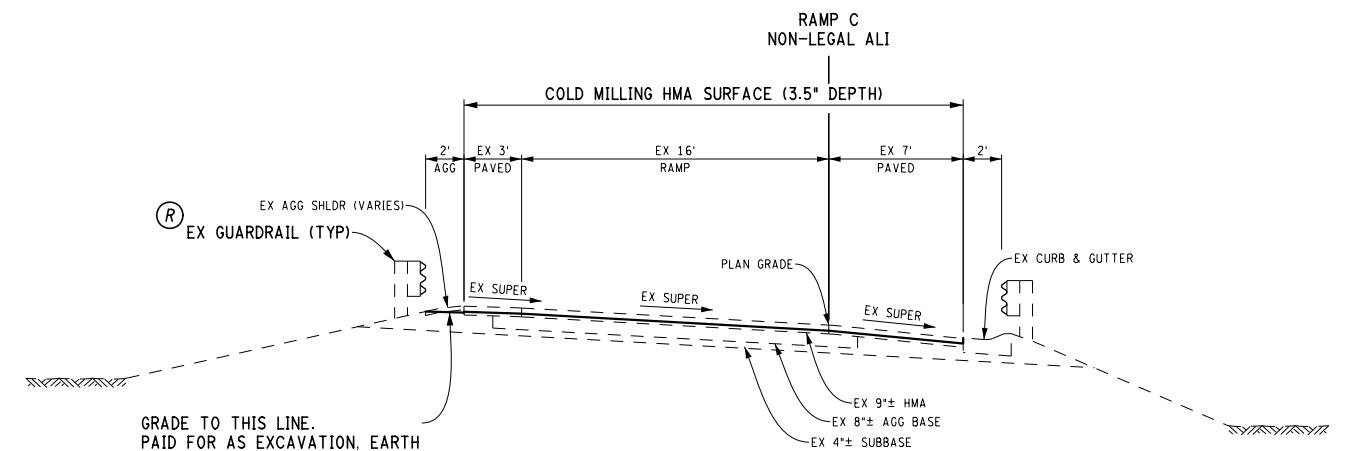
EXISTING RAMP B TYPICAL SECTION SUPERELEVATED

SECTION APPLIES TO:
STA 113+14.51 TO STA 114+30.29



EXISTING RAMP C TYPICAL SECTION CROWN RIGHT

SECTION APPLIES TO:
STA 201+07.35 TO STA 208+68.45



EXISTING RAMP C TYPICAL SECTION SUPERELEVATED

SECTION APPLIES TO:
STA 208+68.45 TO STA 210+32.18

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

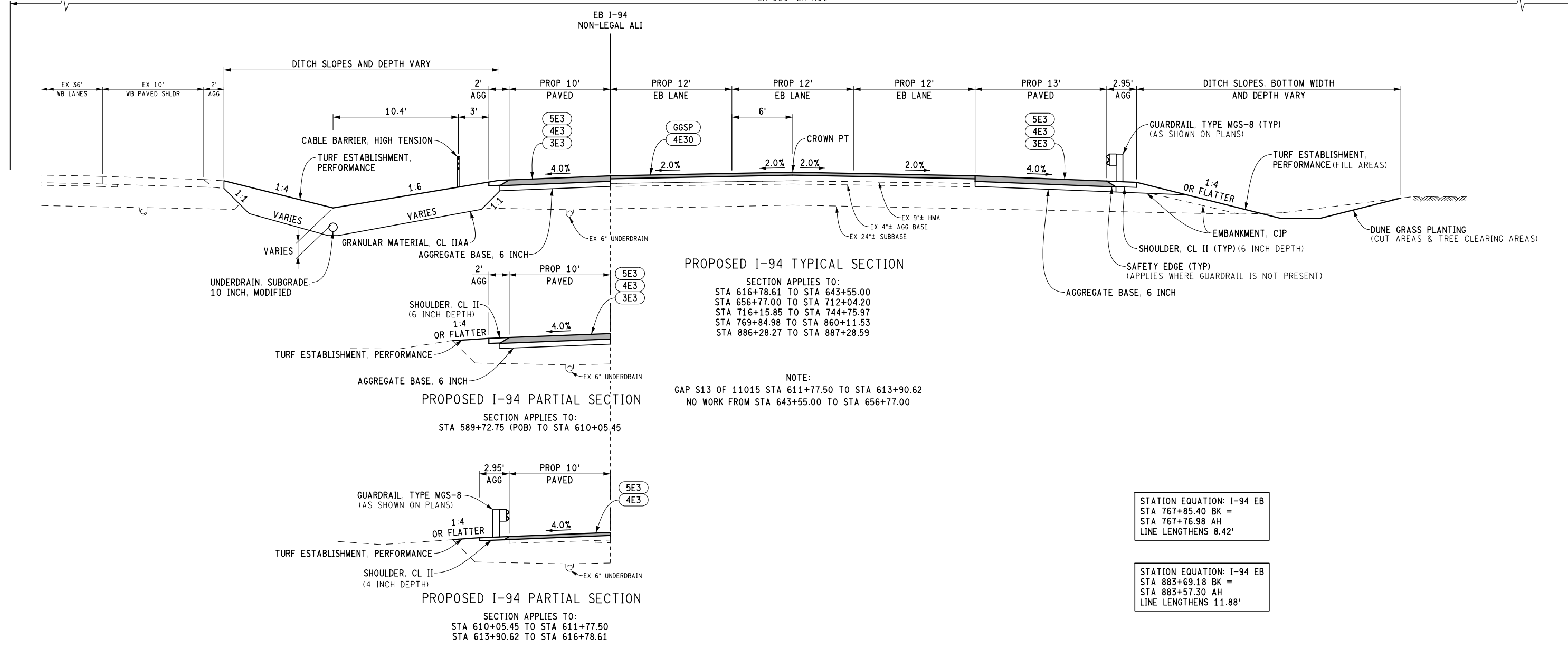


DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
TSC: KALAMAZOO	

EXISTING TYPICAL SECTION		DRAWING	SHEET
I-94 EB		194EB TYP 006	SECT 1 28

FILE: 119672_I94EB_Typicals.dgn

EX 300' LA ROW



PROPOSED I-94 TYPICAL SECTION

SECTION APPLIES TO:
 STA 616+78.61 TO STA 643+55.00
 STA 656+77.00 TO STA 712+04.20
 STA 716+15.85 TO STA 744+75.97
 STA 769+84.98 TO STA 860+11.53
 STA 886+28.27 TO STA 887+28.59

NOTE:
 GAP S13 OF 11015 STA 611+77.50 TO STA 613+90.62
 NO WORK FROM STA 643+55.00 TO STA 656+77.00

PROPOSED I-94 PARTIAL SECTION

SECTION APPLIES TO:
 STA 589+72.75 (POB) TO STA 610+05.45

PROPOSED I-94 PARTIAL SECTION

SECTION APPLIES TO:
 STA 610+05.45 TO STA 611+77.50
 STA 613+90.62 TO STA 616+78.61

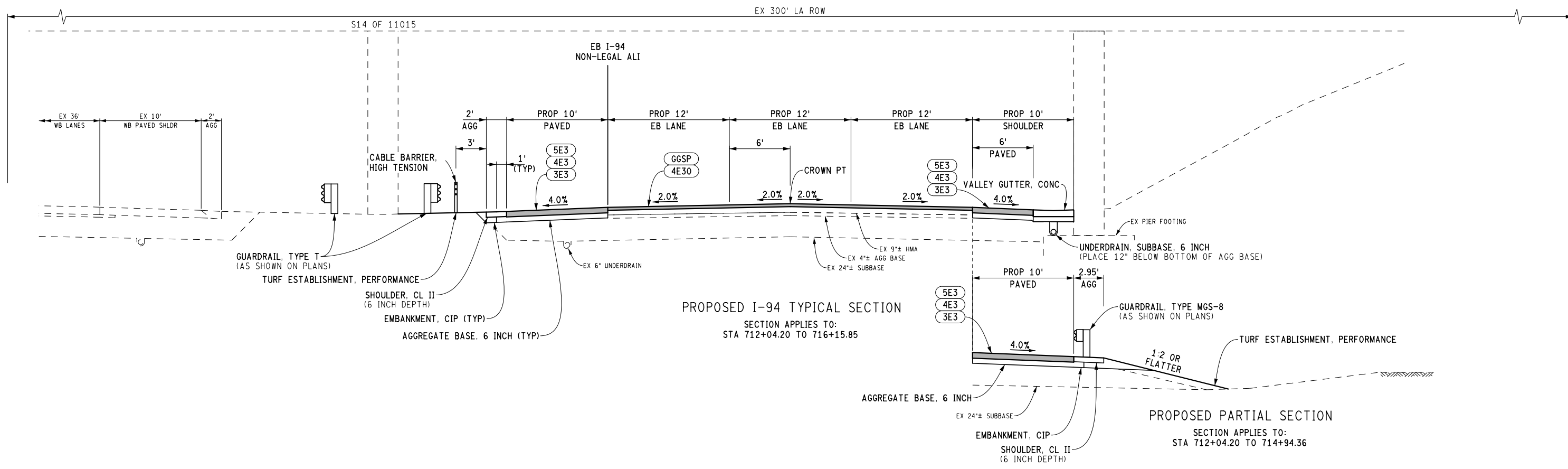
STATION EQUATION: I-94 EB
 STA 767+85.40 BK =
 STA 767+76.98 AH
 LINE LENGTHENS 8.42'

STATION EQUATION: I-94 EB
 STA 883+69.18 BK =
 STA 883+57.30 AH
 LINE LENGTHENS 11.88'

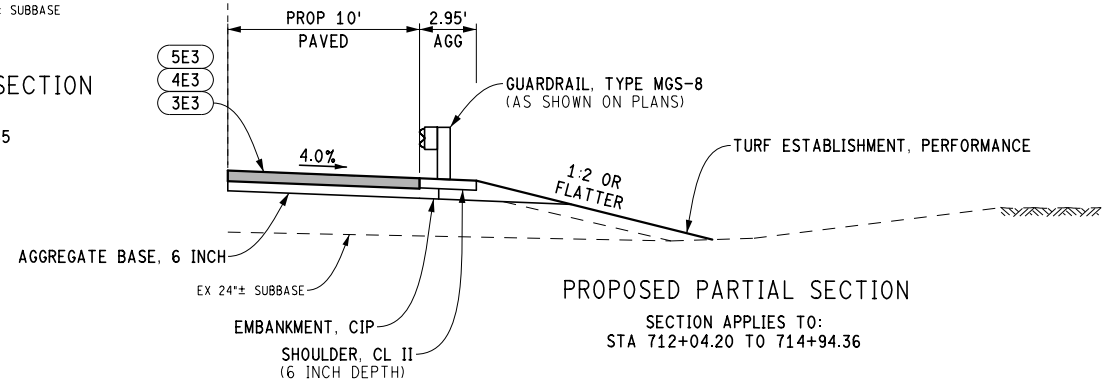
HMA APPLICATION ESTIMATE

IDENT NO.	ITEM	RATE LBS PER SYD	PERFORMANCE GRADE	REMARKS
GGSP	HMA, GAP GRADED SUPERPAVE	165	PG 70-28P	MAINLINE TOP COURSE - AWI 260
4E30	HMA, 4E30	220	PG 70-28P	MAINLINE LEVELING COURSE
WE30	HMA, 5E30	82.5-220	PG 64-22	MAINLINE WEDGING
5E3	HMA, 5E3	165	PG 64-22	MAINLINE SHLDR & RAMP TOP COURSE
4E3	HMA, 4E3	220	PG 64-22	MAINLINE SHLDR AND RAMP LEVELING COURSE
3E3	HMA, 3E3	330	PG 64-22	MAINLINE SHLDR & RAMP BASE COURSE
WE3	HMA, 5E3	82.5-220	PG 64-22	MAINLINE SHOULDER WEDGING
HA-1	HMA APPROACH	165	PG 64-22	HMA 5E3 - GORE AND CROSSOVER TOP
HA-2	HMA APPROACH	220	PG 64-22	HMA, 4E3 - GORE AND CROSSOVER LEVELING
HA-3	HMA APPROACH	330	PG 64-22	HMA, 3E3 - GORE & CROSSOVER BASE
	* BOND COAT	0.05-0.15 GAL		

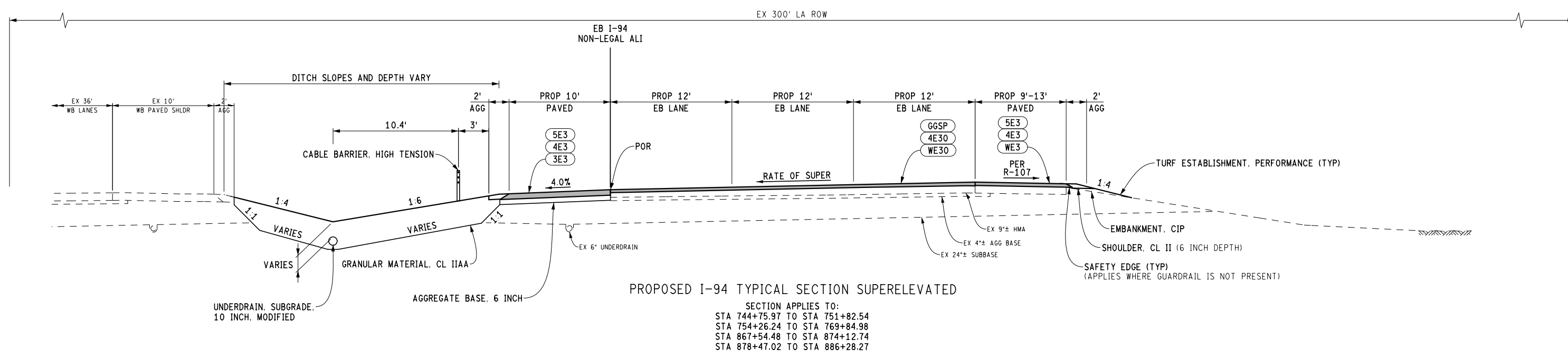
*FOR INFORMATION ONLY



PROPOSED I-94 TYPICAL SECTION
SECTION APPLIES TO:
STA 712+04.20 TO 716+15.85

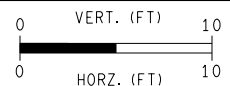


PROPOSED PARTIAL SECTION
SECTION APPLIES TO:
STA 712+04.20 TO 714+94.36



PROPOSED I-94 TYPICAL SECTION SUPERELEVATED
SECTION APPLIES TO:
STA 744+75.97 TO STA 751+82.54
STA 754+26.24 TO STA 769+84.98
STA 867+54.48 TO STA 874+12.74
STA 878+47.02 TO STA 886+28.27

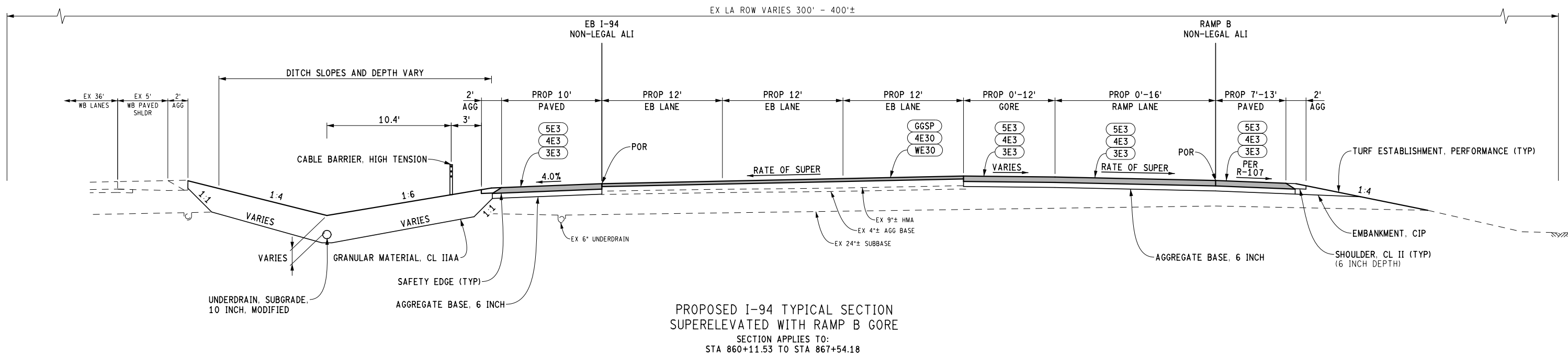
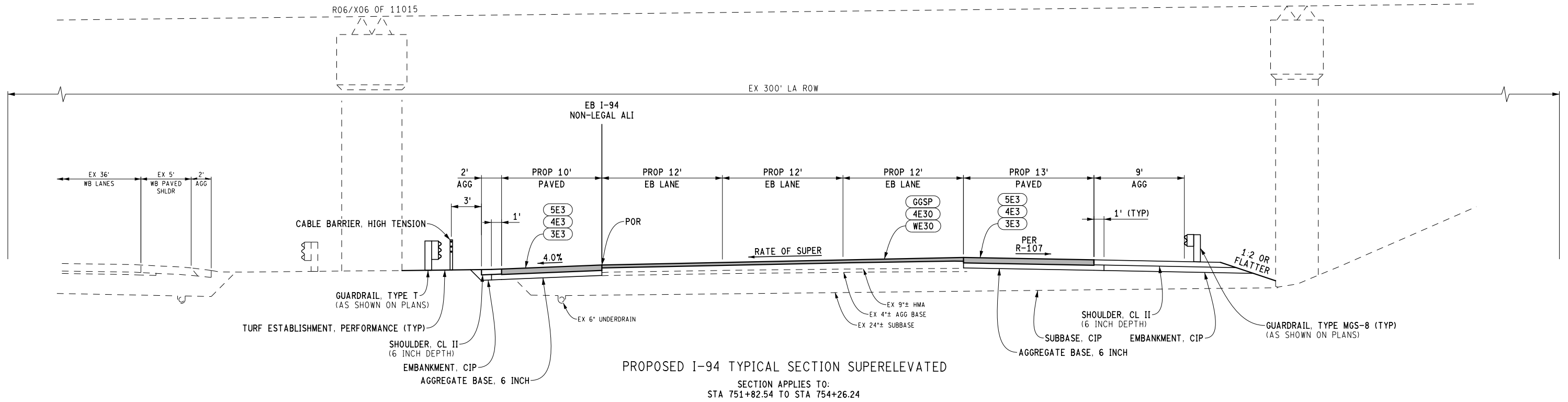
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO
FILE: 119672_194EB_Typicals.dgn

CS: 11015
JN: 119672A

DRAWING		SHEET	
PROPOSED TYPICAL SECTION		194EB TYP 008	
I-94 EB		SECT 1 30	



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

NO.	DATE	AUTH	DESCRIPTION

MDOT
Michigan Department of Transportation

0 VERT. (FT) 10

0 HORZ. (FT) 10

DATE: 08/03/16

DESIGN UNIT: WILCOX

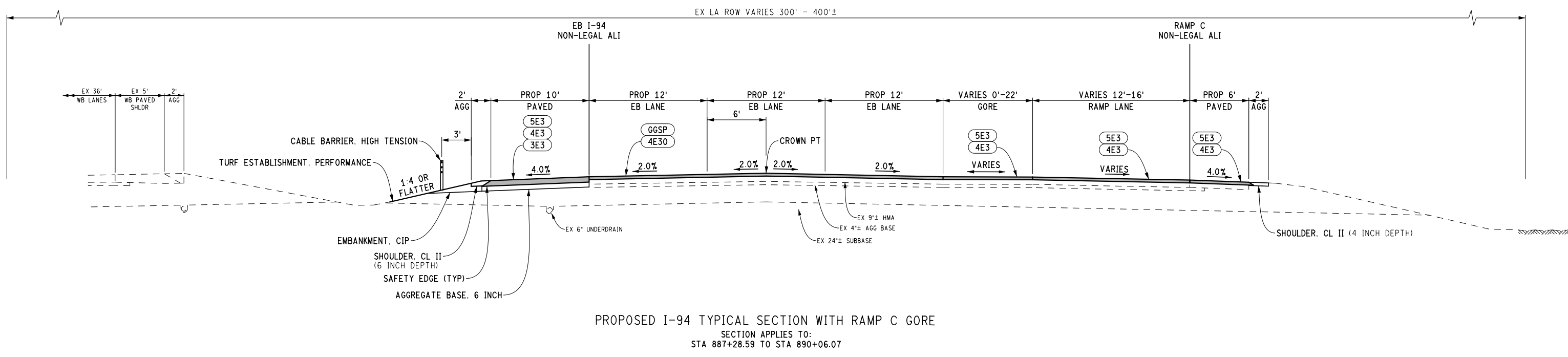
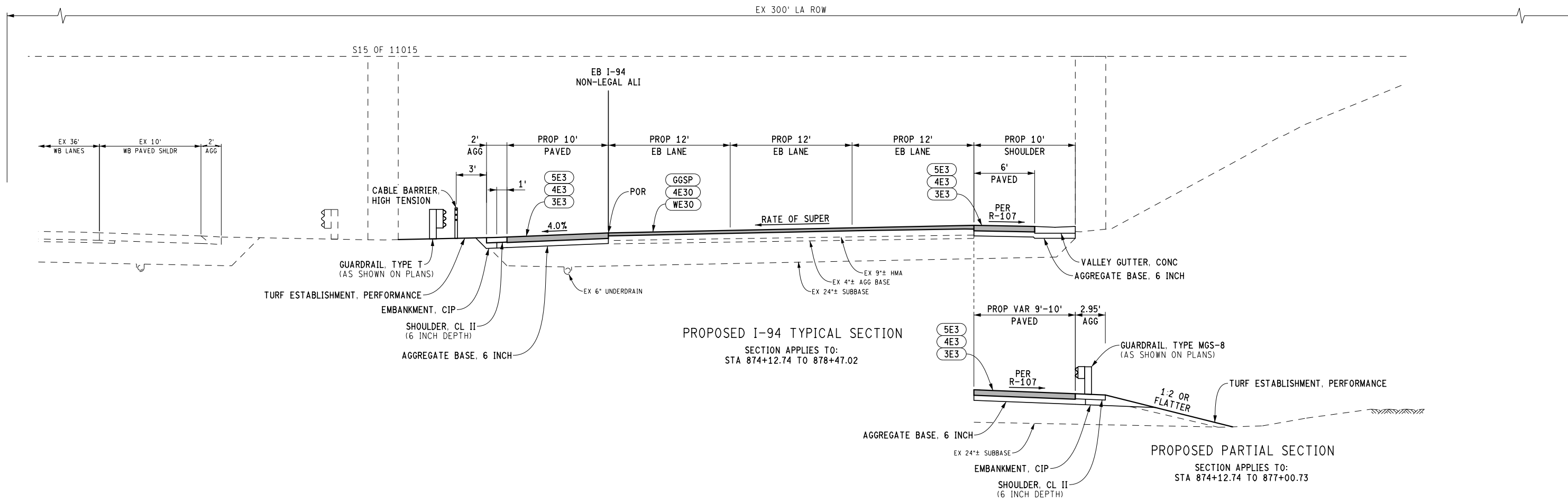
TSC: KALAMAZOO

CS: 11015

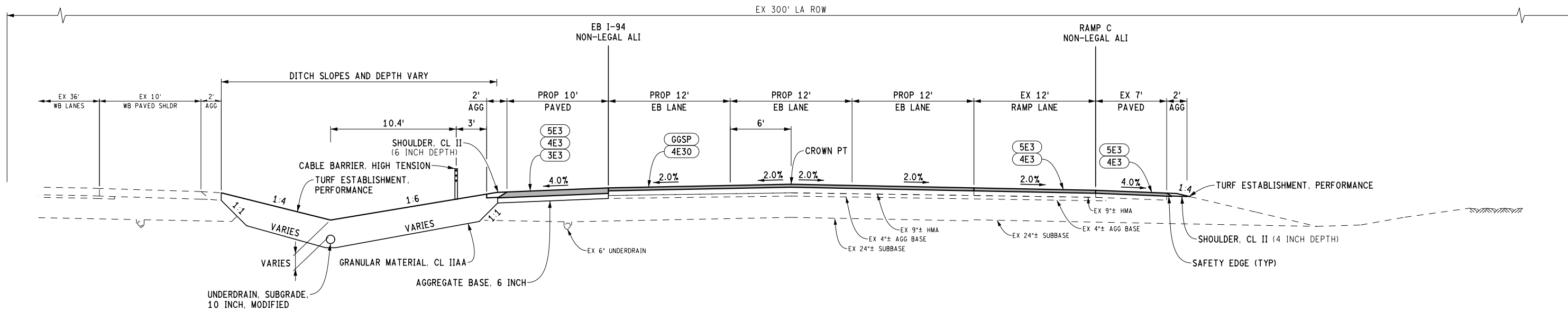
JN: 119672A

PROPOSED TYPICAL SECTION	
I-94 EB	DRAWING SHEET
194EB TYP 009	SECT 1
31	

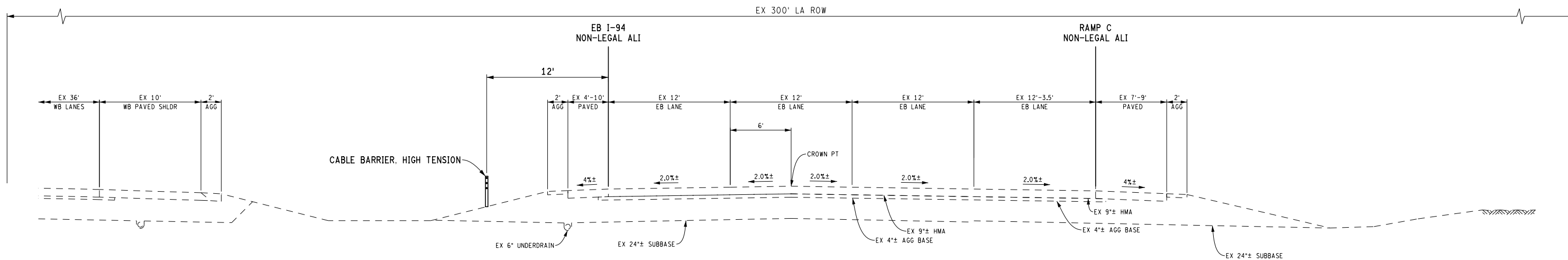
PROPOSED TYPICAL SECTION	
I-94 EB	DRAWING SHEET
194EB TYP 009	SECT 1
31	



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							0 VERT. (FT) 10 0 HORZ. (FT) 10	DATE: 08/03/16 DESIGN UNIT: WILCOX TSC: KALAMAZOO	CS: 11015 JN: 119672A	PROPOSED TYPICAL SECTION		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE					AUTH	DESCRIPTION		
										I-94 EB			

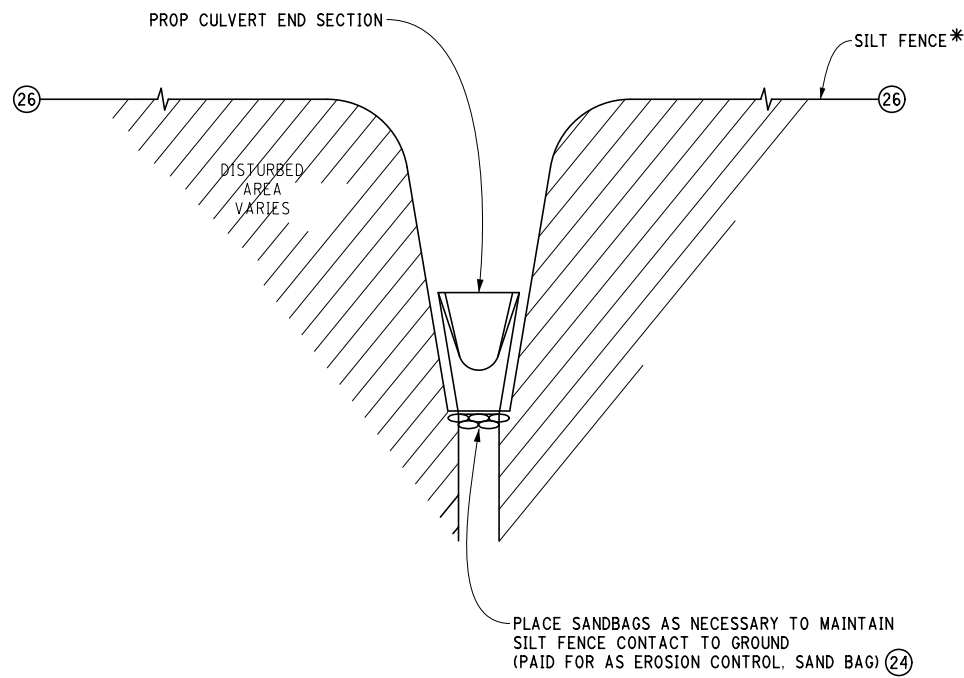


PROPOSED I-94 TYPICAL SECTION
SECTION APPLIES TO:
STA 890+06.07 TO STA 895+00



PROPOSED I-94 TYPICAL SECTION
SECTION APPLIES TO:
STA 895+00 TO STA 897+63 (POE)

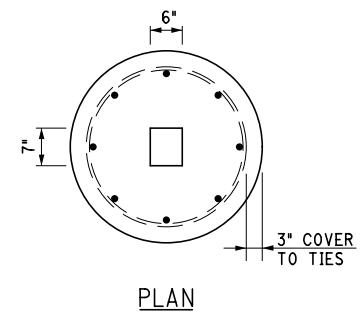
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)									0 VERT. (FT) 10 0 HORZ. (FT) 10	DATE: 08/03/16 DESIGN UNIT: WILCOX TSC: KALAMAZOO	CS: 11015 JN: 119672A	PROPOSED TYPICAL SECTION		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION					194EB TYP 011	SECT 1 33		
												I-94 EB			



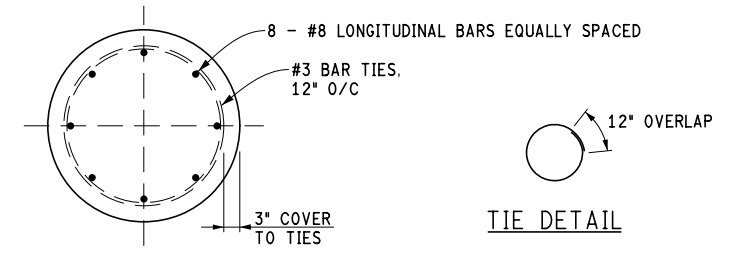
*NOTE:
 FOR CULVERTS 30" DIA AND SMALLER, PLACE MINIMUM 12 FT OF SILT FENCE EACH SIDE OF CULVERT END SECTION
 FOR CULVERTS 36" DIA AND LARGER, PLACE MINIMUM 24 FT OF SILT FENCE EACH SIDE OF CULVERT END SECTION

SILT FENCE INSTALLATION DETAIL - CULVERTS

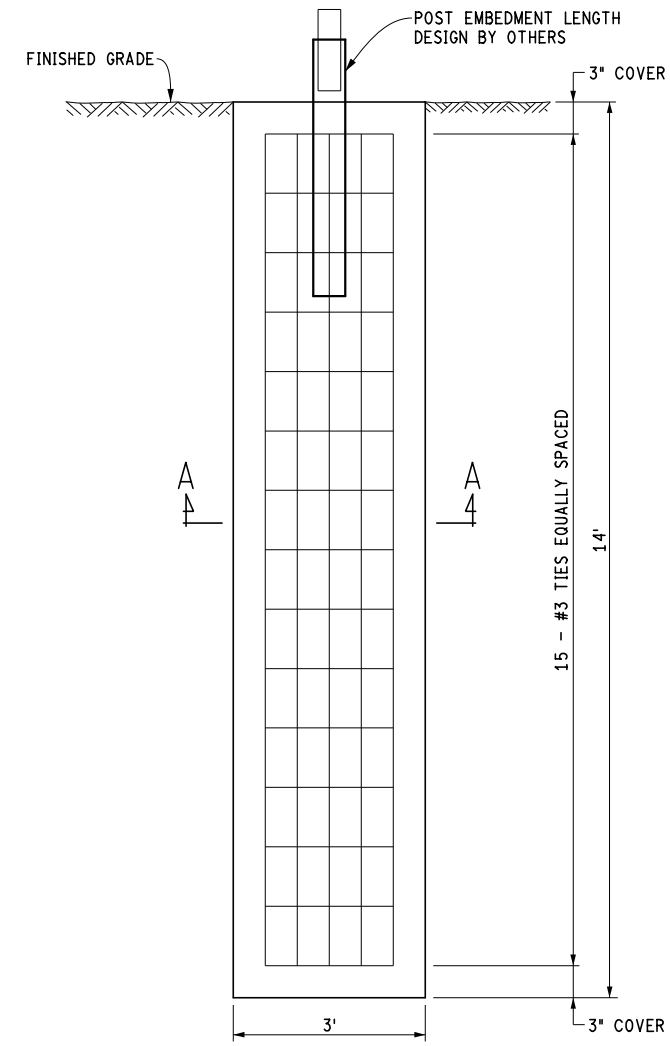
TO APPLY:
 WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.



PLAN

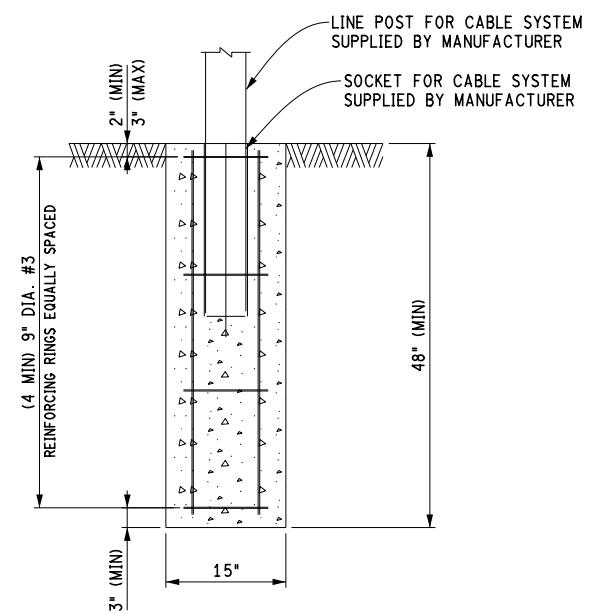


SECTION A-A

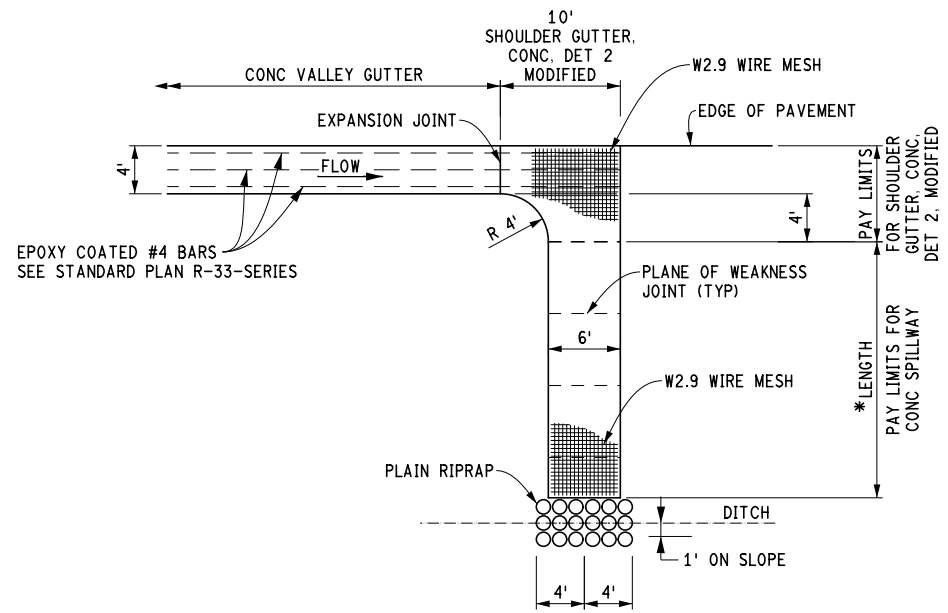


ELEVATION

**CABLE BARRIER END
 TERMINAL FOUNDATION DETAIL**



**MINIMUM SIZE AND REINFORCEMENT FOR
 LINE POST FOUNDATION FOR
 HIGH-TENSION CABLE BARRIER SYSTEMS**



SHOULDER GUTTER, CONC. DET 2, MODIFIED DETAIL
 (SEE R-35-SERIES FOR MORE DETAILS)

*LENGTH:
 STA 716+37 RT - 5'
 STA 878+07 RT - 22'

NOTES:
 ALL MATERIALS & CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE MDOT 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE SPECIAL PROVISION FOR "REMOVING, SALVAGING, AND RECONSTRUCTING HIGH-TENSION CABLE BARRIER".
 ALL DISTURBED AREAS MUST BE RESTORED. THE CONTRACTOR IS TO MINIMIZE THE AREAS OF DISTURBANCE.

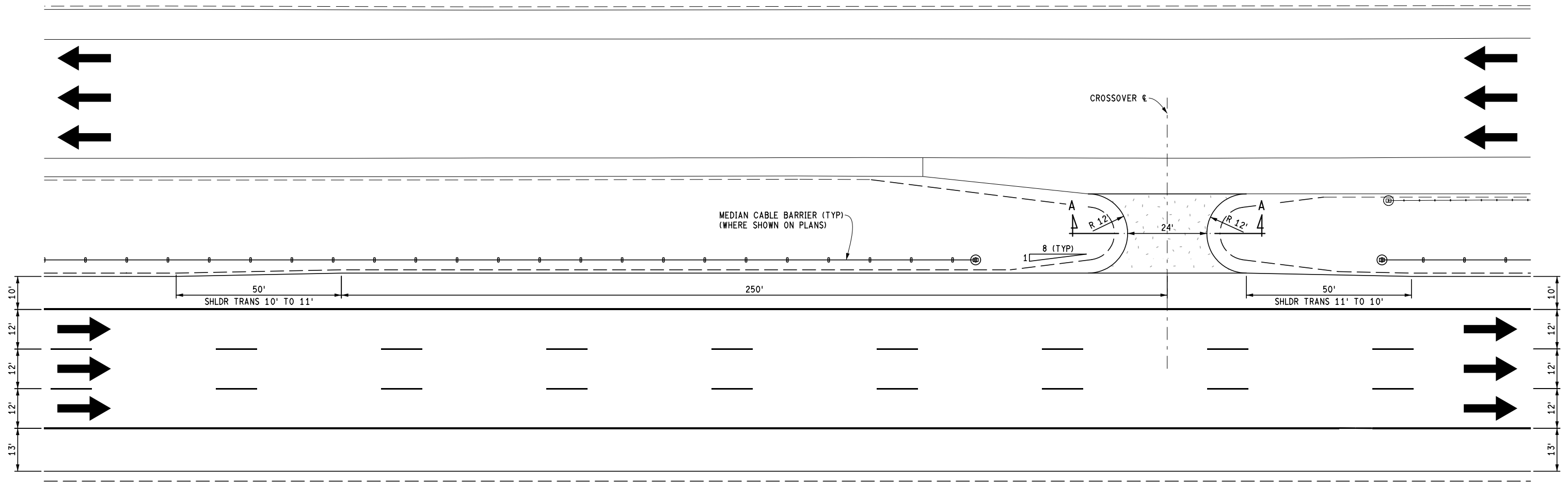
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NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: WILCOX	JN: 119672A			194EB	SECT 1
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I-94 WB

I-94 WB

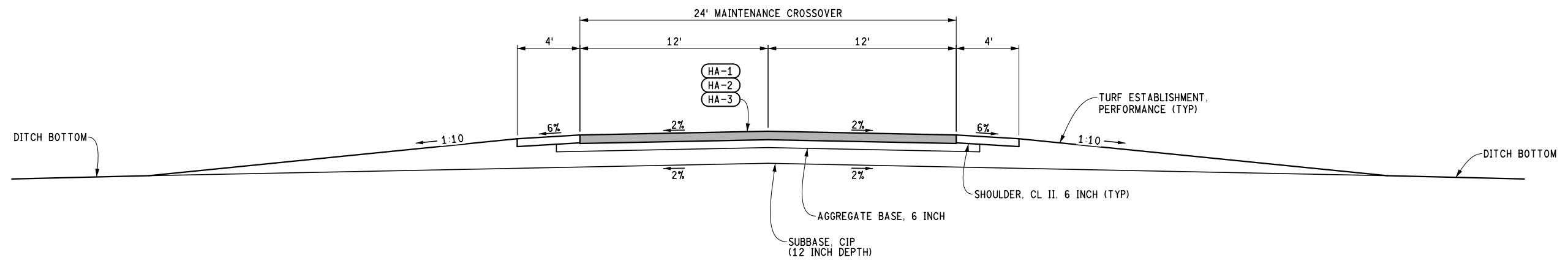
I-94 EB

I-94 EB



PROP MAINTENANCE CROSSOVER DETAIL

APPLIES TO: I-94 EB STA 596+84
I-94 EB STA 729+65
I-94 EB STA 837+17



PROP MAINTENANCE CROSSOVER TYPICAL SECTION A-A

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



NO SCALE

FILE: 119672_I94EB_MSCDET_002.dgn

DATE: 08/03/16

DESIGN UNIT: WILCOX

TSC: KALAMAZOO

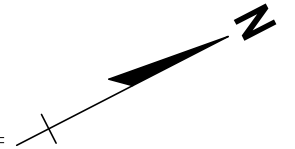
CS: 11015

JN: 119672A

MISCELLANEOUS DETAIL SHEET

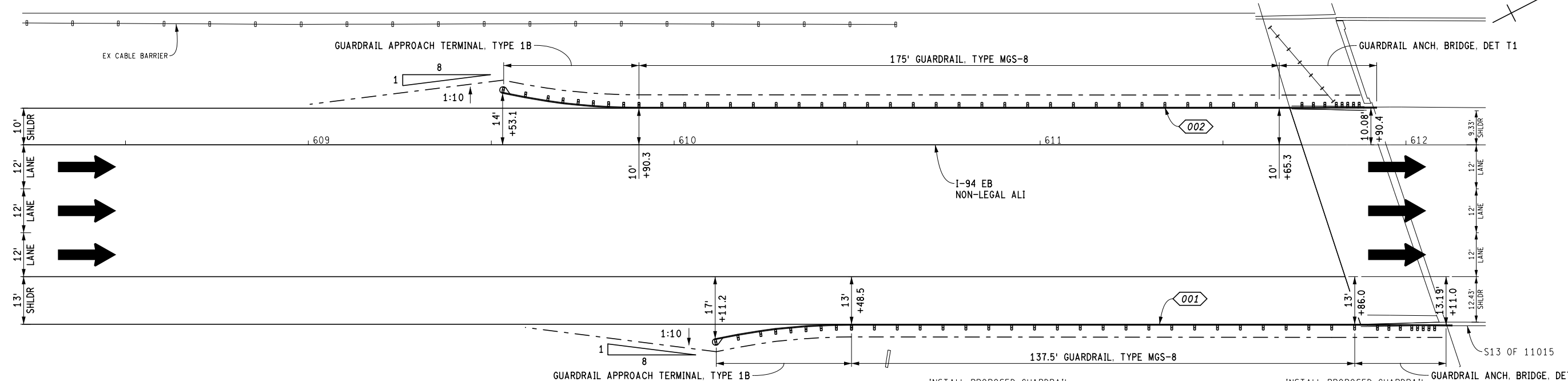
I-94 EB

DRAWING	SHEET
194EB MSCDET 002	SECT 1
	36



I-94 EB

I-94 EB



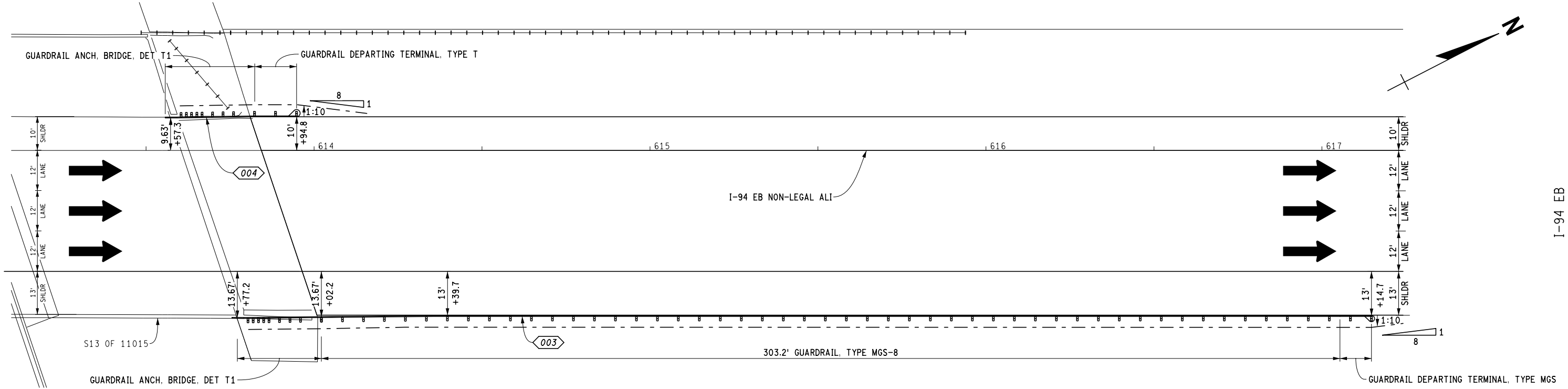
- INSTALL PROPOSED GUARDRAIL
- 1 Ea Guardrail Anch. Bridge, Det T1
 - 1 Ea Guardrail Approach Terminal, Type 1B
 - 4 Ea Guardrail Reflector
 - 138 Ft Guardrail, Type MGS-8
 - 1 Ea Delineator Reflector
 - 1 Ea Post, Delineator

- INSTALL PROPOSED GUARDRAIL
- 1 Ea Guardrail Anch. Bridge, Det T1
 - 1 Ea Guardrail Approach Terminal, Type 1B
 - 6 Ea Guardrail Reflector
 - 175 Ft Guardrail, Type MGS-8
 - 1 Ea Delineator Reflector
 - 1 Ea Post, Delineator

LAKE ST

I-94 EB

I-94 EB

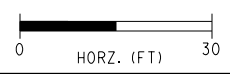


- INSTALL PROPOSED GUARDRAIL
- 1 Ea Guardrail Anch. Bridge, Det T1
 - 8 Ea Guardrail Reflector
 - 304 Ft Guardrail, Type MGS-8
 - 1 Ea Guardrail Departing Terminal, Type MGS
 - 1 Ea Delineator Reflector
 - 1 Ea Post, Delineator

- INSTALL PROPOSED GUARDRAIL
- 1 Ea Guardrail Anch. Bridge, Det T1
 - 1 Ea Guardrail Departing Terminal, Type T
 - 2 Ea Guardrail Reflector
 - 1 Ea Delineator Reflector
 - 1 Ea Post, Delineator

LAKE ST

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

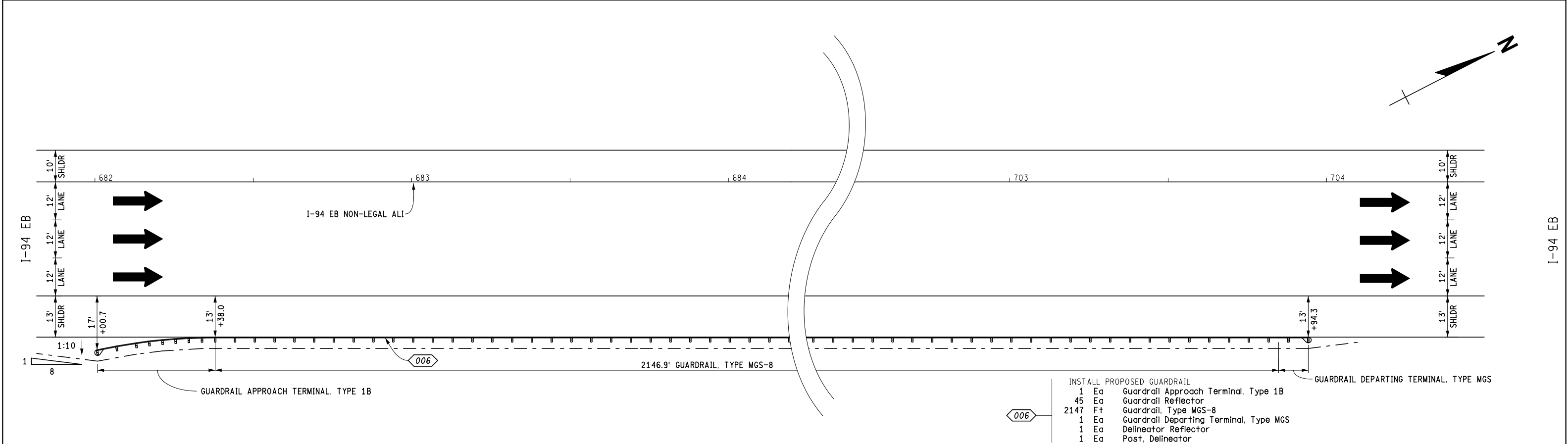
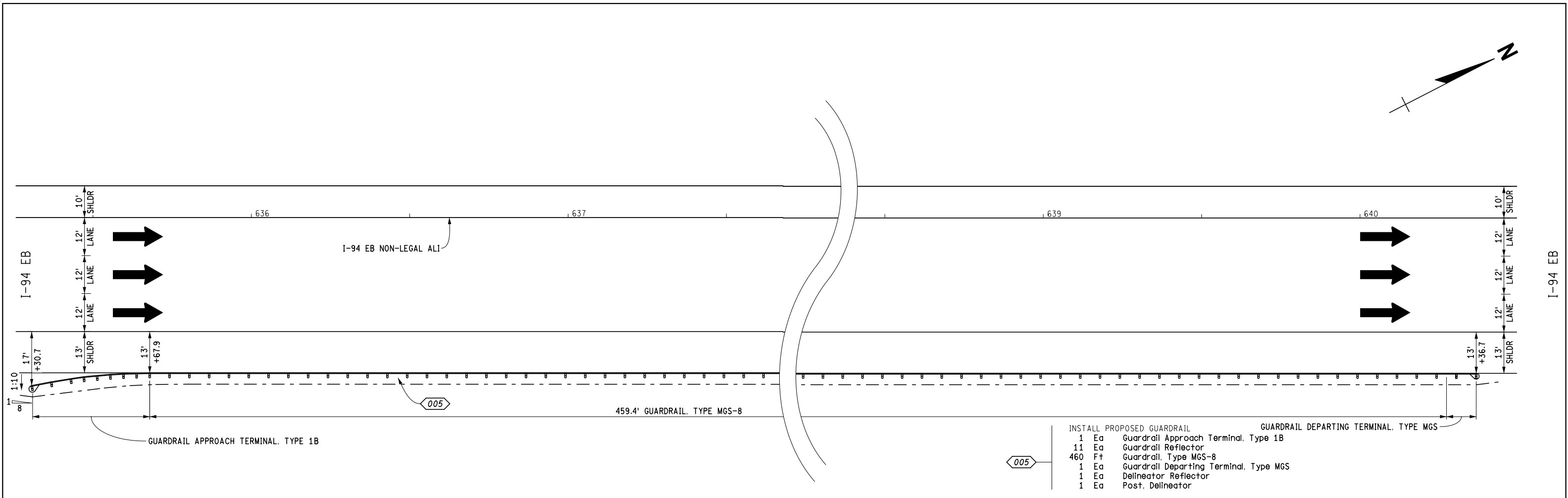


DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO

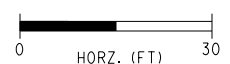
CS: 11015
 JN: 119672A

DRAWING		SHEET	
GUARDRAIL DETAIL SHEET		194EB	SECT 1
I-94 EB		001	37

FILE: 119672_I94EB_GRDET_001.dgn



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



FILE: 119672_I94EB_GRDET_002.dgn

DATE: 08/03/16

DESIGN UNIT: WILCOX

TSC: KALAMAZOO

CS: 11015

JN: 119672A

GUARDRAIL DETAIL SHEET

I-94 EB

DRAWING	SHEET
194EB GRDET 002	38

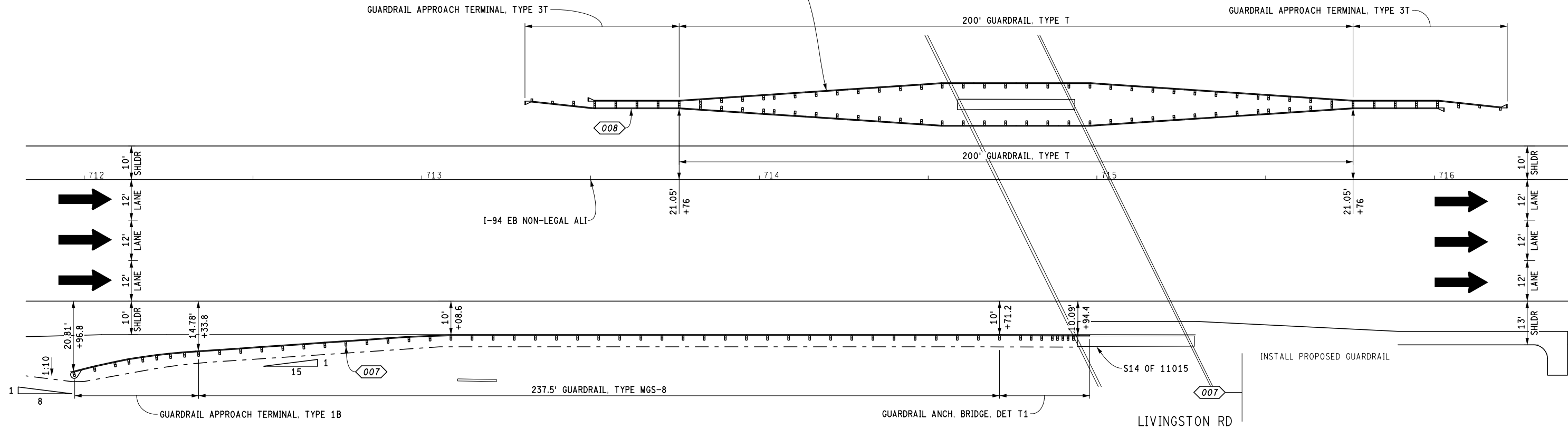
LIVINGSTON RD

- INSTALL PROPOSED GUARDRAIL
- 400 Ft Guardrail, Type T
 - 2 Ea Guardrail Approach Terminal, Type 3T
 - 10 Ea Guardrail Reflector
 - 2 Ea Delineator Reflector
 - 2 Ea Post, Delineator

NOTE: INSTALL GUARDRAIL ACCORDING TO STANDARD PLAN R-56-E GUARDRAIL MEDIAN OBJECT PROTECTION

I-94 EB

I-94 EB

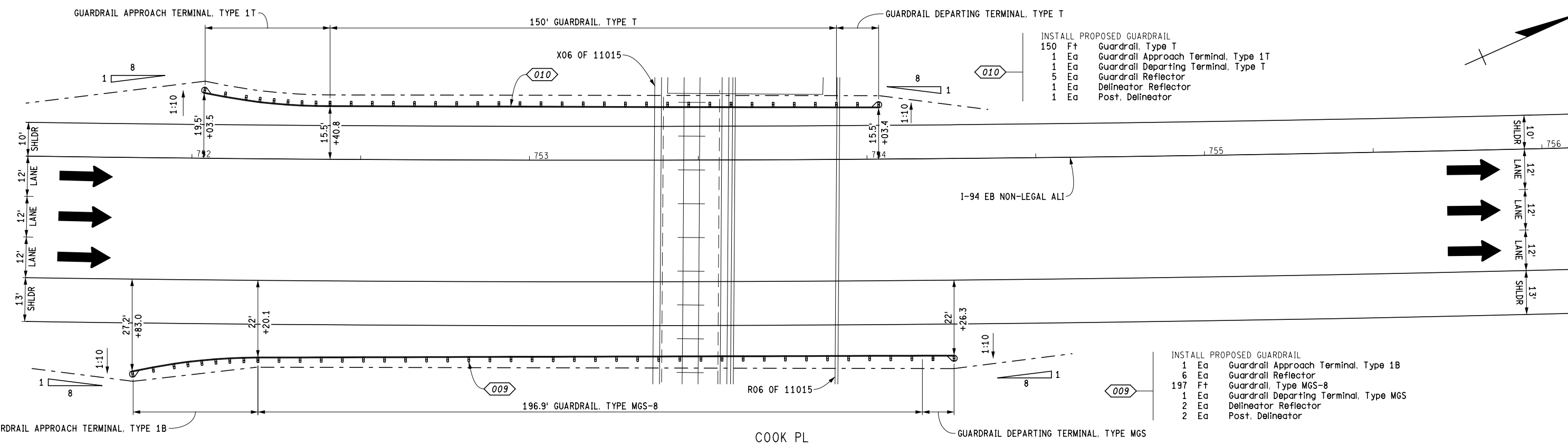


COOK PL

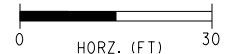
- INSTALL PROPOSED GUARDRAIL
- 150 Ft Guardrail, Type T
 - 1 Ea Guardrail Approach Terminal, Type 1T
 - 1 Ea Guardrail Departing Terminal, Type T
 - 5 Ea Guardrail Reflector
 - 1 Ea Delineator Reflector
 - 1 Ea Post, Delineator

I-94 EB

I-94 EB

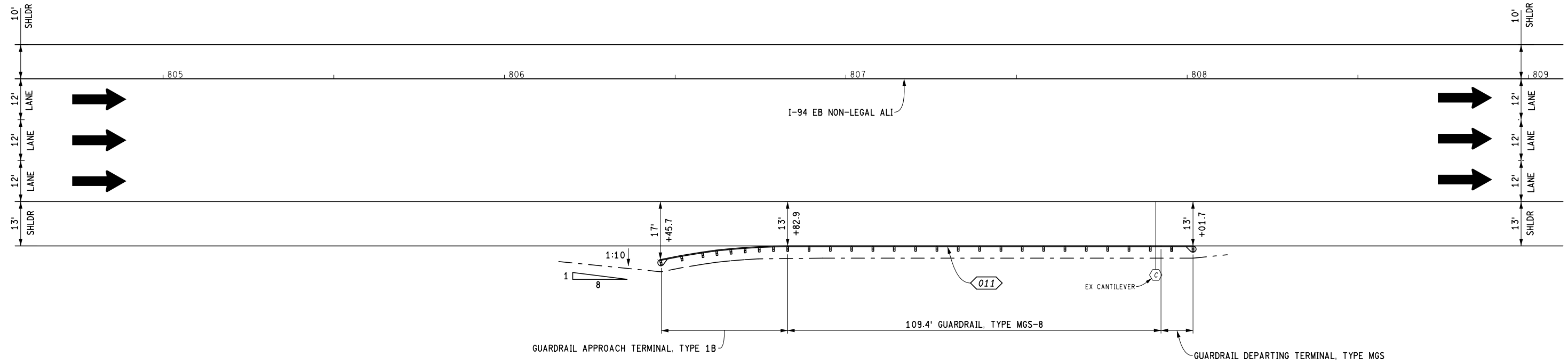


FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)				DESCRIPTION			
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



DATE: 08/03/16	CS: 11015	DRAWING SHEET
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I-94 EB		194EB GRDET 003
		SECT 1
		39

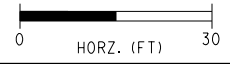
I-94 EB



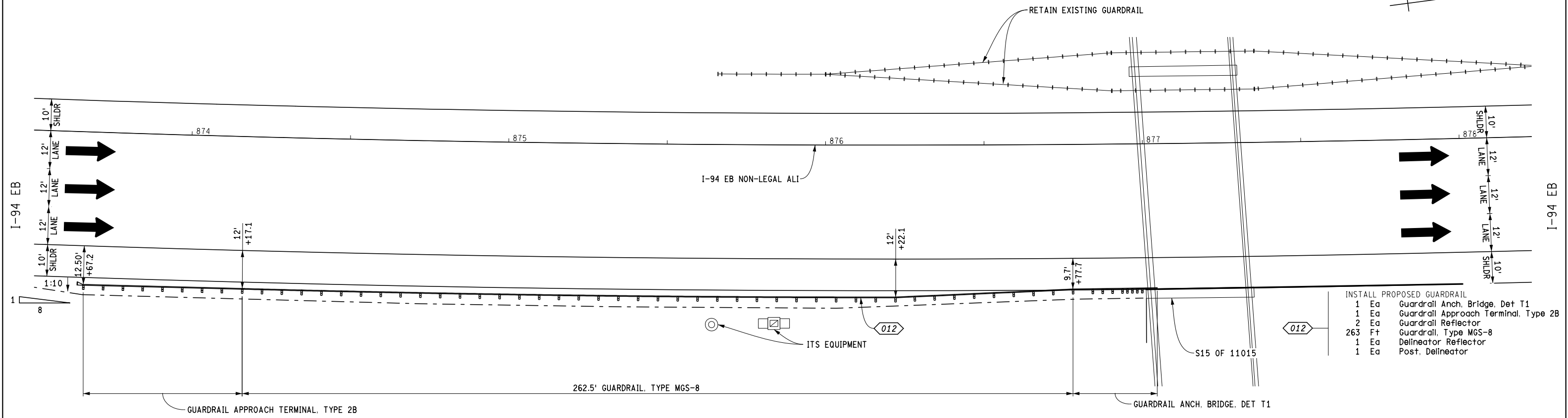
I-94 EB

	INSTALL PROPOSED GUARDRAIL	
	1 Ea	Guardrail Approach Terminal, Type 1B
	4 Ea	Guardrail Reflector
	110 Ft	Guardrail, Type MGS-8
	1 Ea	Guardrail Departing Terminal, Type MGS
	1 Ea	Post, Delineator

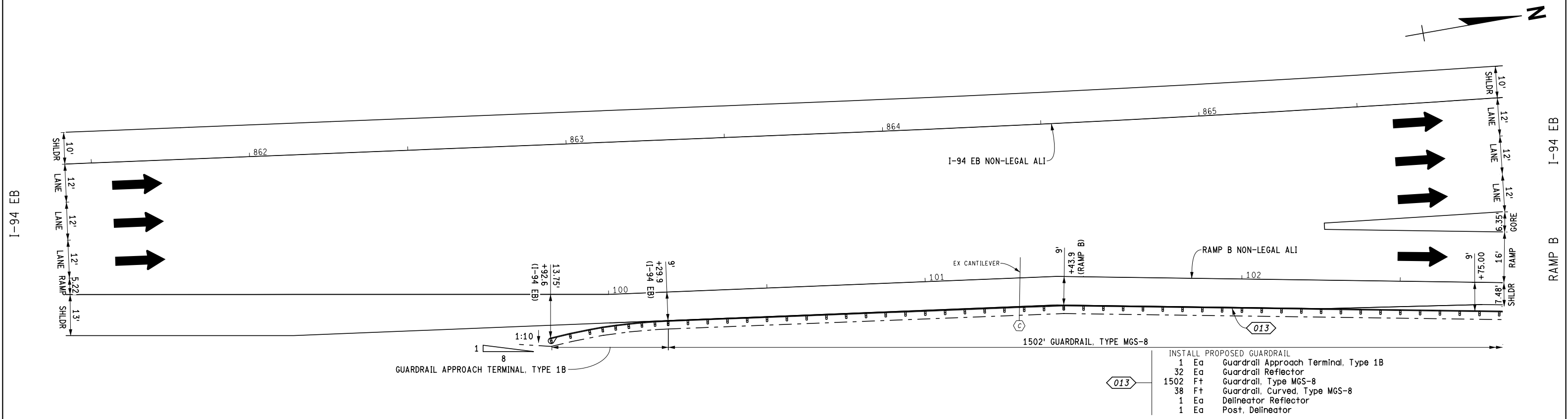
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NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



FILE: 119672_I94EB_GRDET_004.dgn	TSC: KALAMAZOO	DATE: 08/03/16	DESIGN UNIT: WILCOX	CS: 11015	JN: 119672A	GUARDRAIL DETAIL SHEET	DRAWING	SHEET
I-94 EB							194EB GRDET 004	SECT 1 40

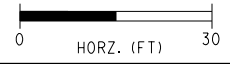


- INSTALL PROPOSED GUARDRAIL
- 1 Ea Guardrail Anch, Bridge, Det T1
 - 1 Ea Guardrail Approach Terminal, Type 2B
 - 2 Ea Guardrail Reflector
 - 263 Ft Guardrail, Type MGS-8
 - 1 Ea Delineator Reflector
 - 1 Ea Post, Delineator



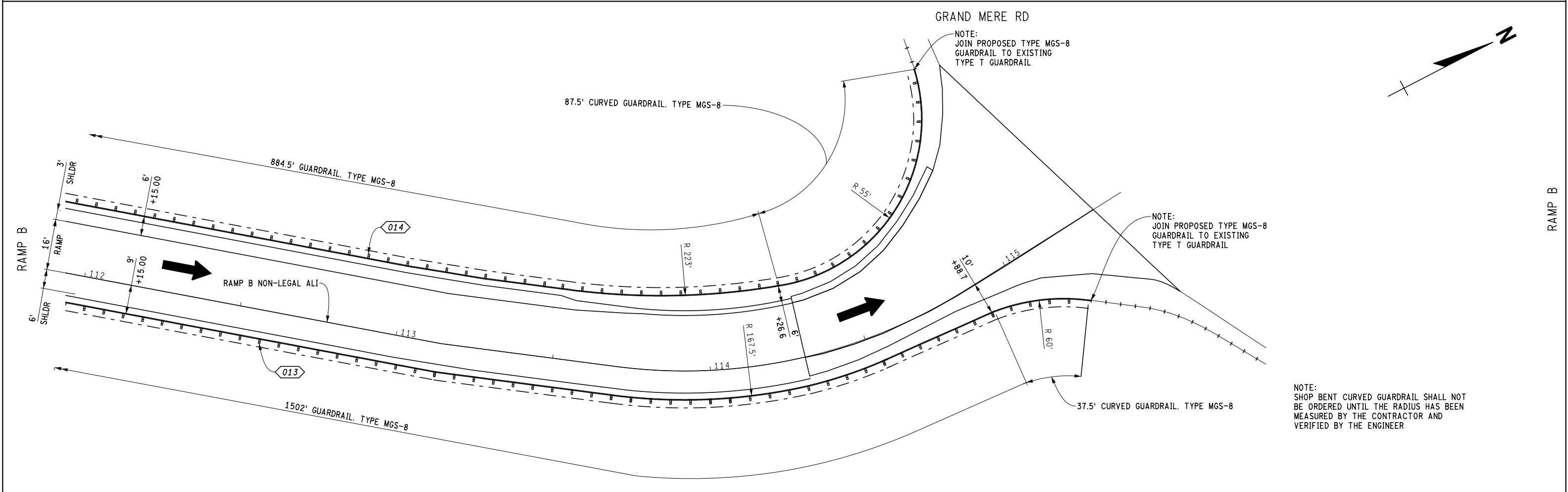
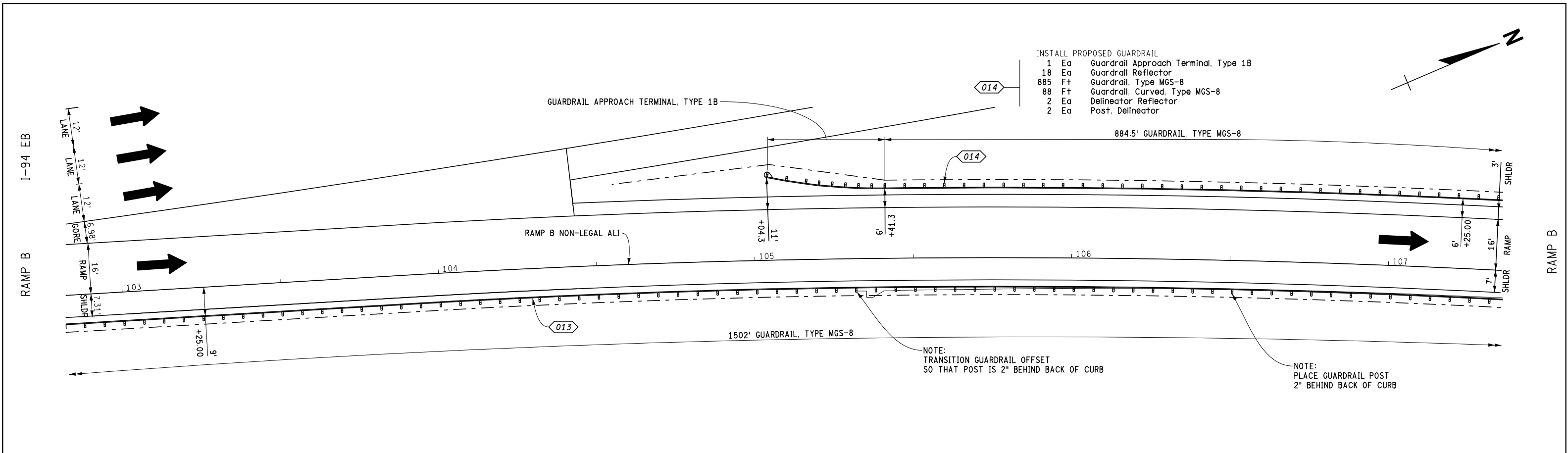
- INSTALL PROPOSED GUARDRAIL
- 1 Ea Guardrail Approach Terminal, Type 1B
 - 32 Ea Guardrail Reflector
 - 1502 Ft Guardrail, Type MGS-8
 - 38 Ft Guardrail, Curved, Type MGS-8
 - 1 Ea Delineator Reflector
 - 1 Ea Post, Delineator

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

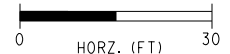


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TSC: KALAMAZOO	FILE: 119672_I94EB_GRDET_005.dgn

GUARDRAIL DETAIL SHEET		DRAWING	SHEET
I-94 EB		194EB GRDET 005	41



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								DATE: 08/03/16		CS: 11015		DRAWING		SHEET	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	DESIGN UNIT: WILCOX	JN: 119672A	GUARDRAIL DETAIL SHEET		194EB	SECT 1		
								TSC: KALAMAZOO		I-94 EB		006	42		



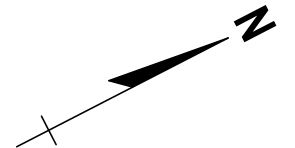
FILE: 119672_194EB_GRDET_006.dgn

GRAND MERE RD

NOTE:
JOIN PROPOSED TYPE MGS-8
GUARDRAIL TO EXISTING
TYPE T GUARDRAIL

62.5' CURVED GUARDRAIL, TYPE MGS-8

721.7' GUARDRAIL, TYPE MGS-8



RAMP C

RAMP C

R 55'

R 40'



6' SHLDR
+06.9
3'

6' SHLDR
+30.00
3'

16' RAMP

16' RAMP

6' SHLDR

6' SHLDR

201

202

RAMP C NON-LEGAL ALI

203

204

NOTE:
JOIN PROPOSED TYPE MGS-8
GUARDRAIL TO EXISTING
TYPE T GUARDRAIL

75' CURVED GUARDRAIL, TYPE MGS-8

844' GUARDRAIL, TYPE MGS-8

NOTE:
PLACE GUARDRAIL POSTS
2" BEHIND BACK OF CURB

NOTE:
SHOP BENT CURVED GUARDRAIL SHALL NOT
BE ORDERED UNTIL THE RADIUS HAS BEEN
MEASURED BY THE CONTRACTOR AND
VERIFIED BY THE ENGINEER

015

- INSTALL PROPOSED GUARDRAIL
- 20 Ea Guardrail Reflector
 - 844 Ft Guardrail, Type MGS-8
 - 75 Ft Guardrail, Curved, Type MGS-8
 - 1 Ea Guardrail Departing Terminal, Type MGS
 - 1 Ea Delineator Reflector
 - 1 Ea Post, Delineator

016

- INSTALL PROPOSED GUARDRAIL
- 17 Ea Guardrail Reflector
 - 722 Ft Guardrail, Type MGS-8
 - 63 Ft Guardrail, Curved, Type MGS-8
 - 1 Ea Guardrail Departing Terminal, Type MGS
 - 1 Ea Delineator Reflector
 - 1 Ea Post, Delineator

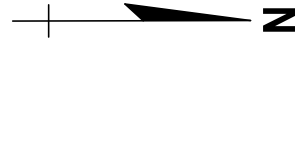
GRAND MERE RD

RAMP C

RAMP C

721.7' GUARDRAIL, TYPE MGS-8

GUARDRAIL DEPARTING TERMINAL, TYPE MGS



3' SHLDR

3' SHLDR

16' RAMP

16' RAMP

6' SHLDR

6' SHLDR



RAMP C NON-LEGAL ALI

205

208

209

015

016

NOTE:
PLACE GUARDRAIL POSTS
2" BEHIND BACK OF CURB

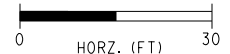
844' GUARDRAIL, TYPE MGS-8

1:10
8

GUARDRAIL DEPARTING TERMINAL, TYPE MGS

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



FILE: 119672_194EB_GRDET_007.dgn

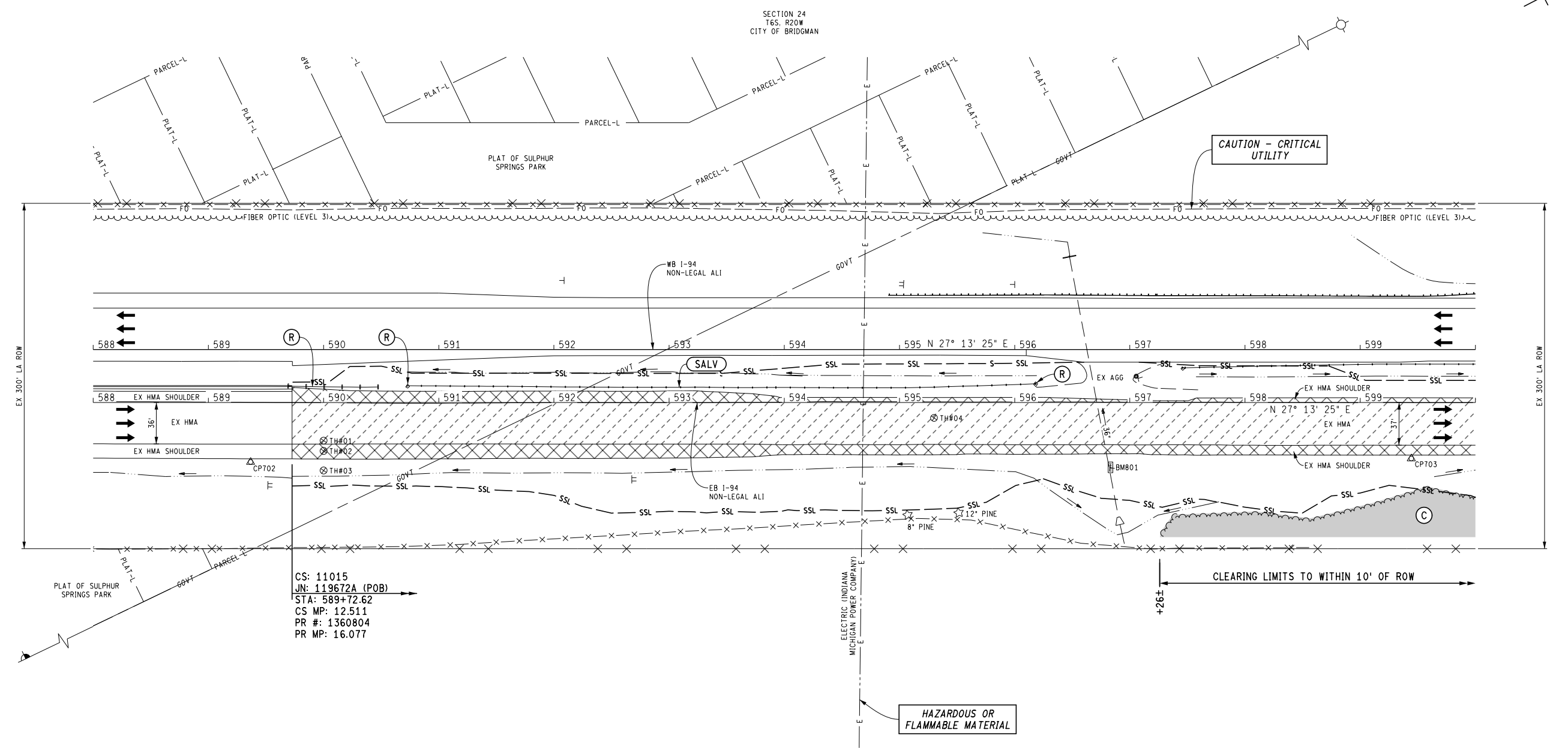
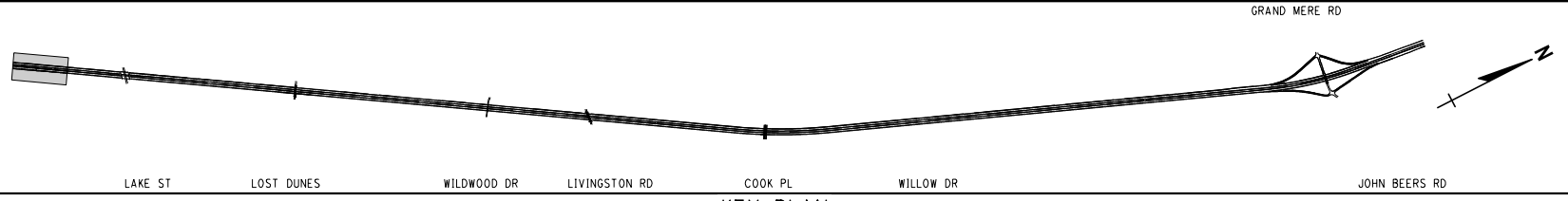
DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

GUARDRAIL DETAIL SHEET

I-94 EB

DRAWING SHEET
194EB GRDET 007
SECT 1
43



WB I-94

WB I-94

CS: 11015
 JN: 119672A (POB)
 STA: 589+72.62
 CS MP: 12.511
 PR #: 1360804
 PR MP: 16.077

CAUTION - CRITICAL UTILITY

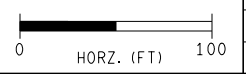
HAZARDOUS OR FLAMMABLE MATERIAL

CLEARING LIMITS TO WITHIN 10' OF ROW

QUANTITIES THIS SHEET

JN 119672	0.17	Acre	Clearing
CAT 0001	80	Ft	Guardrail, Rem
	1899	Syd	Pavt, Rem
	2200	Cyd	Excavation, Earth
	4227	Syd	Cold Milling HMA Surface
	549	Ft	Cable Barrier, High Tension, Salv
	54	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem
	2	Ea	Cable Barrier, High Tension, End Term Fdn, Rem

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

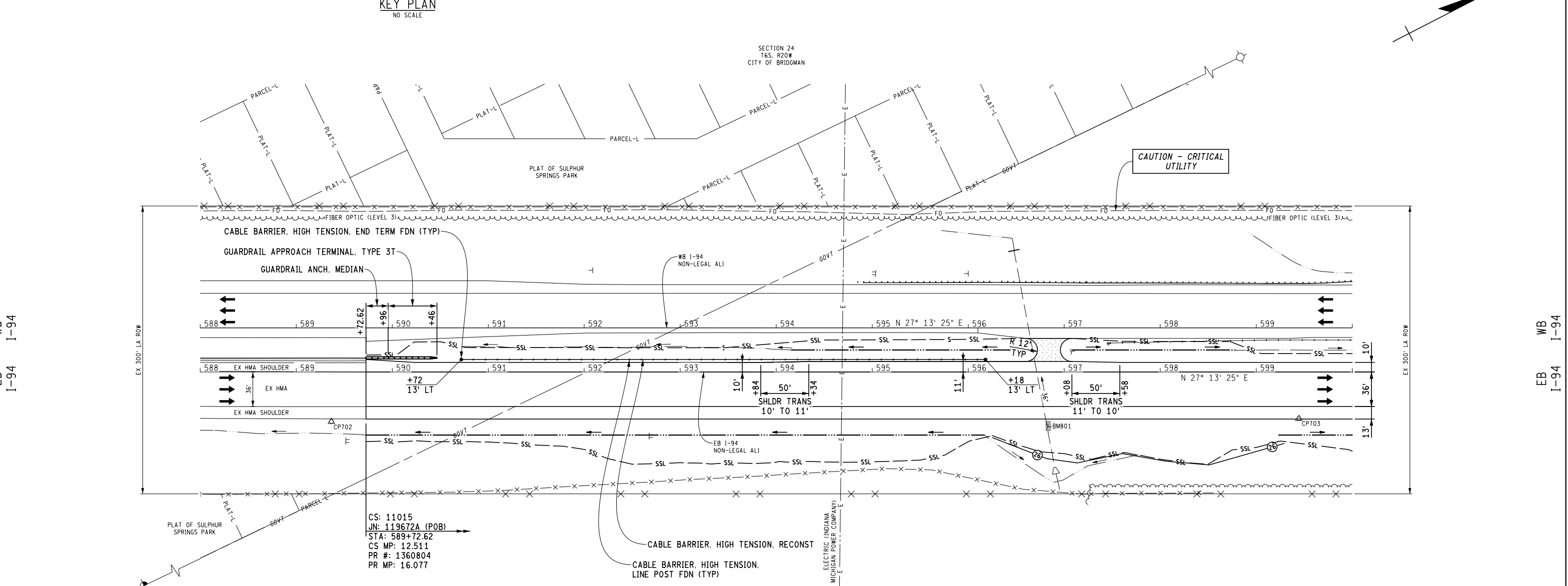
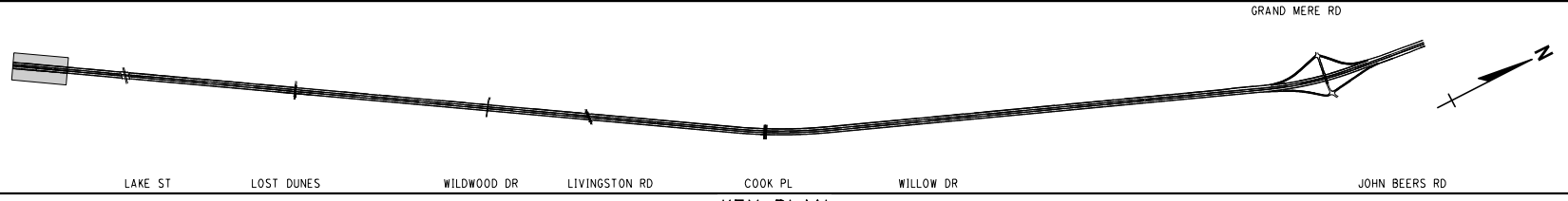


DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_194EB_REM_001.dgn

CS: 11015
 JN: 119672A

REMOVAL SHEET
 STA 589+72.62 (POB) TO STA 600+00

DRAWING SHEET
 194EB REM 001 SECT 1 44

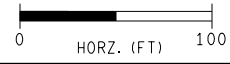


CS: 11015
 JN: 119672A (POB)
 STA: 589+72.62
 CS MP: 12.511
 PR #: 1360804
 PR MP: 16.077

QUANTITIES THIS SHEET

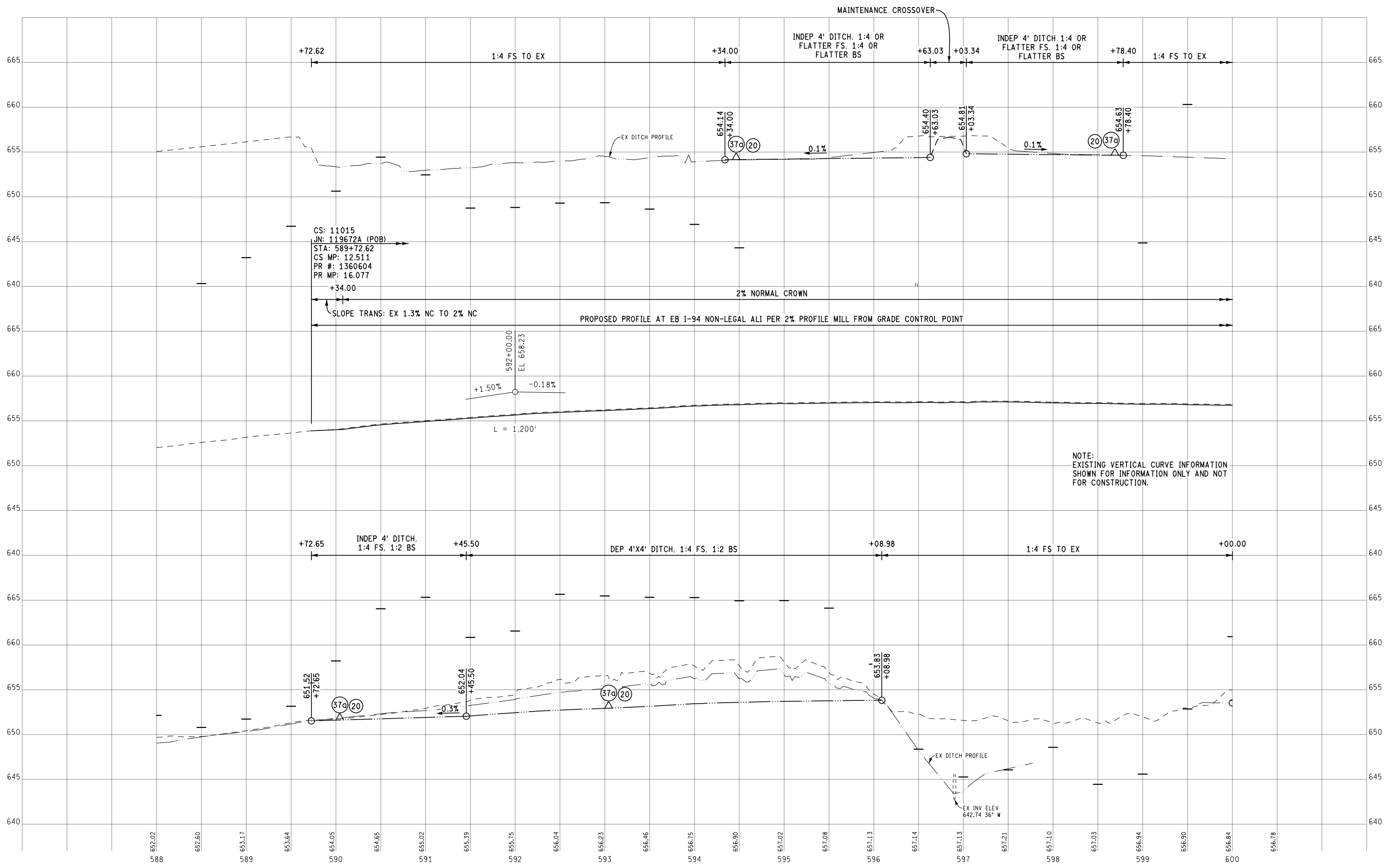
JN 119672		CAT 0001	
355	Cyd	Embankment, CIP	
4	Ea	Erosion Control, Inlet Protection, Sediment Trap	
320	Ft	Erosion Control, Silt Fence	
32	Ft	Permeable Runoff Structure	
51	Cyd	Subbase, CIP	
2793	Syd	Aggregate Base, 6 inch	
209	Ton	Shoulder, CI II	
477	Ton	HMA, 3E3	
318	Ton	HMA, 4E3	
498	Ton	HMA, 4E30	
239	Ton	HMA, 5E3	
31	Ton	HMA Approach	
374	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)	
1	Ea	Guardrail Anch, Median	
1	Ea	Guardrail Approach Terminal, Type 3T	
549	Ft	Cable Barrier, High Tension, Reconst	
54	Ea	Cable Barrier, High Tension, Line Post Fdn	
2	Ea	Cable Barrier, High Tension, End Term Fdn	
794	Syd	Mulch Blanket	
1333	Syd	Mulch Blanket, High Velocity	
3613	Syd	Turf Establishment, Performance	
2127	Syd	Dune Grass Planting	
2054	Ft	Shoulder Corrugations, Ground or Cut, HMA	

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



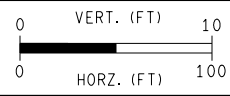
DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 CS: 11015
 JN: 119672A

CONSTRUCTION SHEET		DRAWING	SHEET
STA 589+72.62 (POB) TO STA 600+00		194EB CON 001	SECT 1 45



EX GROUND PROFILE 23' LT
 EX GROUND POINTS 173' LT
 PROP LT DITCH PROFILE
 EX GROUND PROFILE AT EB I-94 NON-LEGAL ALI
 APPROXIMATE PROFILE AT EB I-94 NON-LEGAL ALI
 EX GROUND PROFILE 66' RT
 EX GROUND POINTS 123' RT
 PROP RT DITCH PROFILE

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

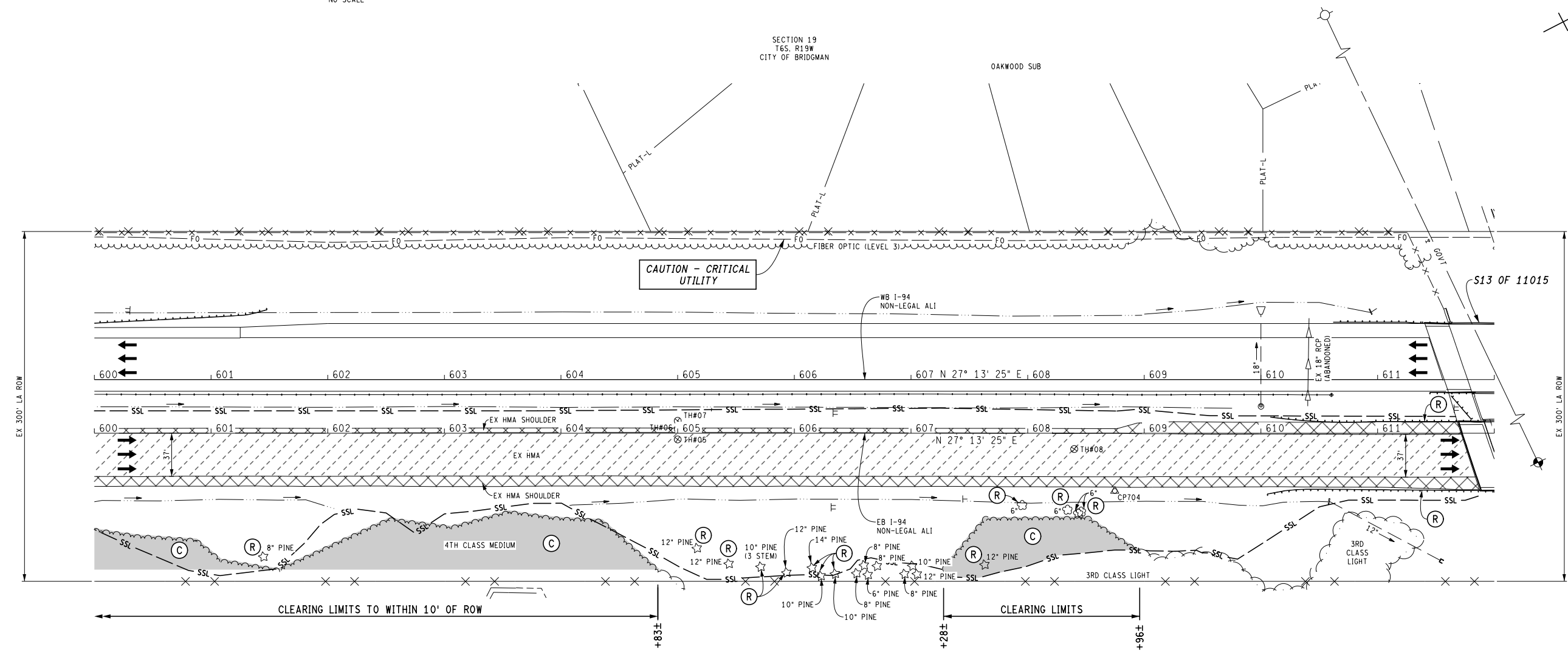
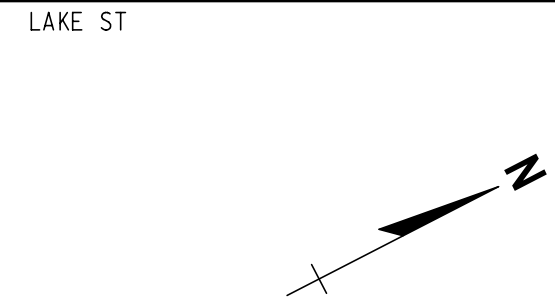
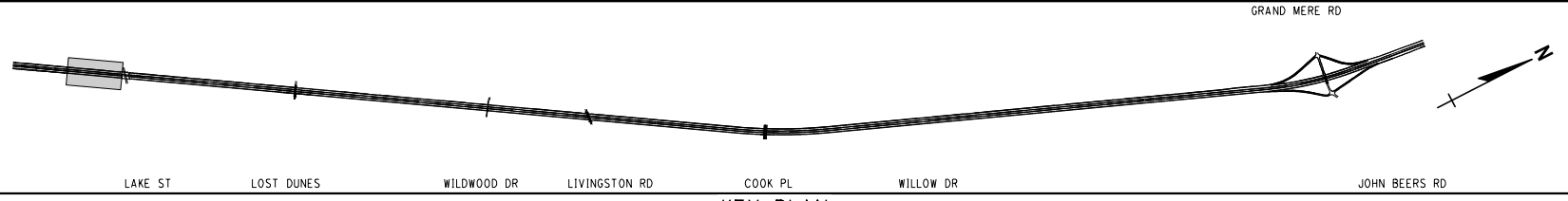


DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_194EB_PROF_001.dgn

CS: 11015
 JN: 119672A

PROFILE SHEET
 STA 589+72.62 (POB) TO STA 600+00

DRAWING SHEET
 194EB PROF 001
 SECT 1
46



WB I-94
EB I-94

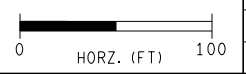
WB I-94
EB I-94

SECTION 19
T6S, R19W
CITY OF BRIDGMAN

QUANTITIES THIS SHEET

JN 119672	0.46	Acre	Clearing
CAT 0001	13	Ea	Tree, Rem, 6 inch to 18 inch
	380	Ft	Guardrail, Rem
	1918	Syd	Pavt, Rem
	4280	Cyd	Excavation, Earth
	4841	Syd	Cold Milling HMA Surface

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



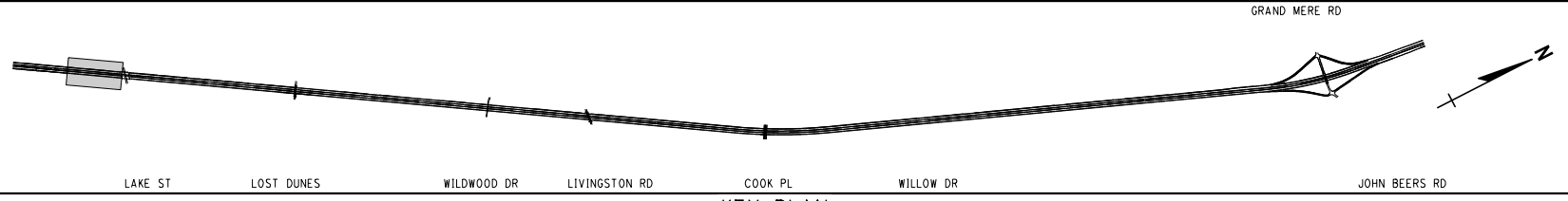
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

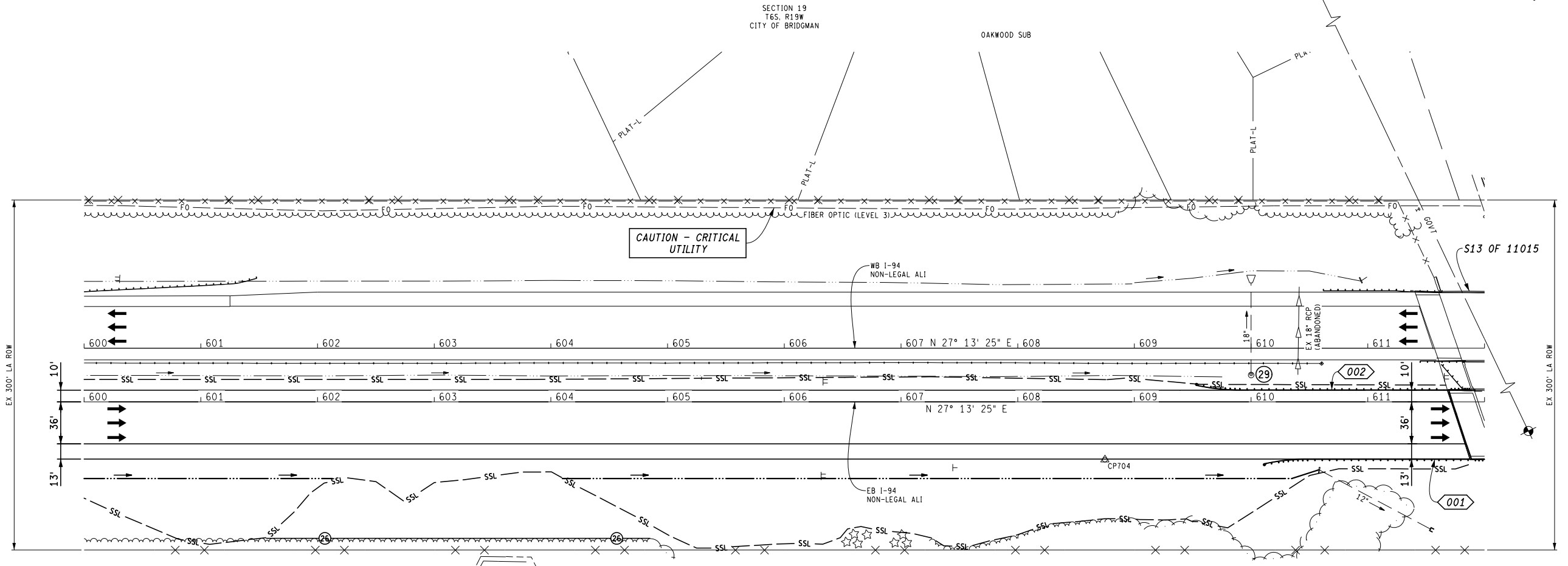
CS: 11015
JN: 119672A

REMOVAL SHEET
STA 600+00 TO STA 612+00

LAKE ST
DRAWING SHEET
194EB REM 002
47



KEY PLAN
NO SCALE



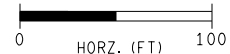
CAUTION - CRITICAL UTILITY

QUANTITIES THIS SHEET

QTY	UNIT	DESCRIPTION
JN 119672		
CAT 0001		
176	Cyd	Embankment, CIP
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
7	Ea	Erosion Control, Inlet Protection, Sediment Trap
350	Ft	Erosion Control, Silt Fence
56	Ft	Permeable Runoff Structure
3072	Syd	Aggregate Base, 6 inch
207	Ton	Shoulder, CI II
547	Ton	HMA, 3E3
365	Ton	HMA, 4E3
570	Ton	HMA, 4E30
274	Ton	HMA, 5E3
428	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
1492	Syd	Mulch Blanket
3627	Syd	Mulch Blanket, High Velocity
3022	Syd	Turf Establishment, Performance
5119	Syd	Dune Grass Planting
2355	Ft	Shoulder Corrugations, Ground or Cut, HMA

SECTION 19
T6S, R19W
CITY OF BRIDGMAN

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



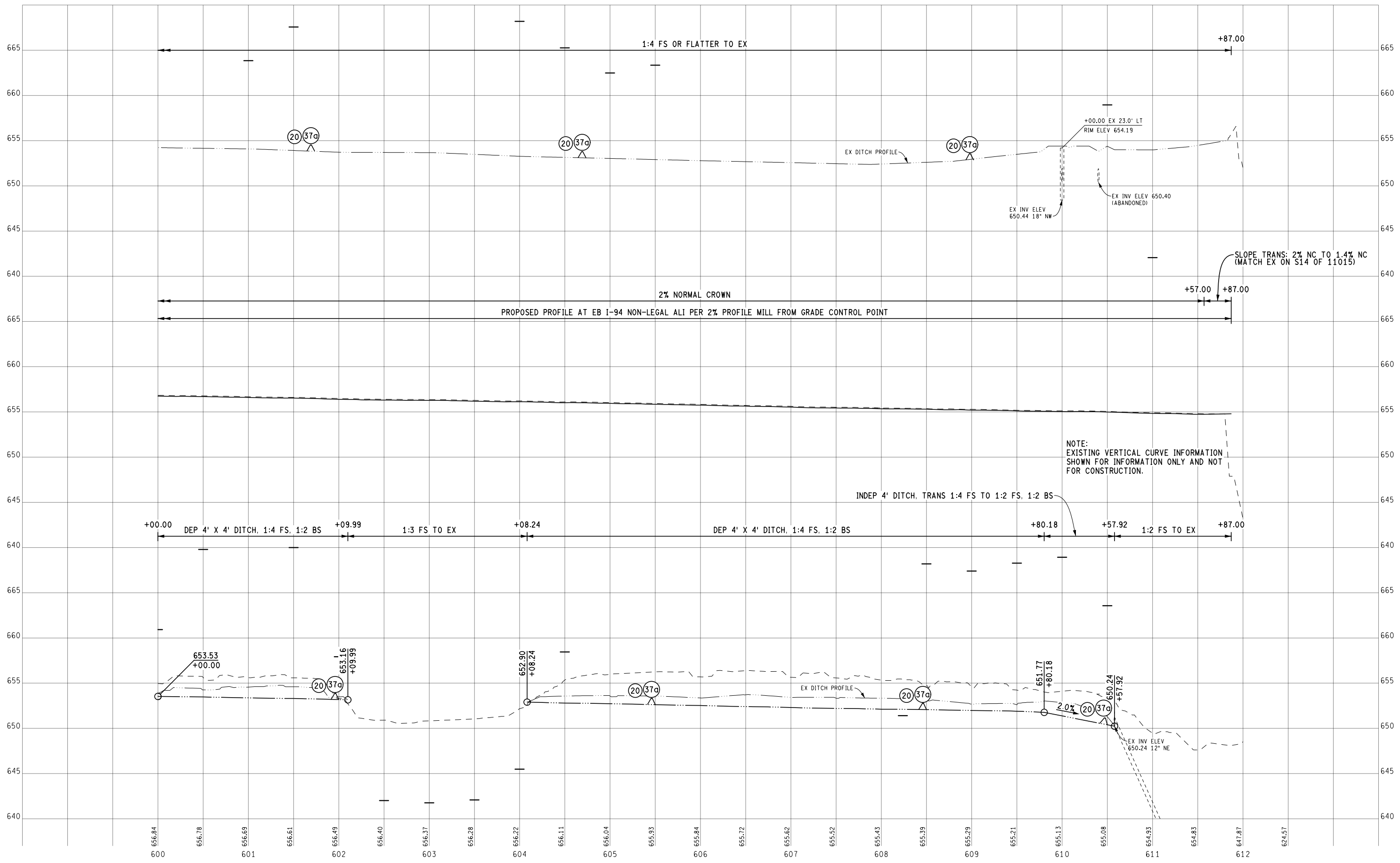
FILE: 119672_I94EB_CON_002.dgn

DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

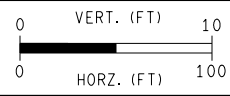
CONSTRUCTION SHEET
STA 600+00 TO STA 612+00

LAKE ST
DRAWING SHEET
194EB CON 002
SECT 1
48



EX GROUND PROFILE 23' LT
 EX GROUND POINTS 173' LT
 PROP LT DITCH PROFILE
 EX GROUND PROFILE AT EB I-94 NON-LEGAL ALI
 APPROXIMATE PROFILE AT EB I-94 NON-LEGAL ALI
 EX GROUND PROFILE 66' RT
 EX GROUND POINTS 123' RT
 EX GROUND PROFILE AT EB I-94 NON-LEGAL ALI
 APPROXIMATE PROFILE AT EB I-94 NON-LEGAL ALI
 PROP RT DITCH PROFILE

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

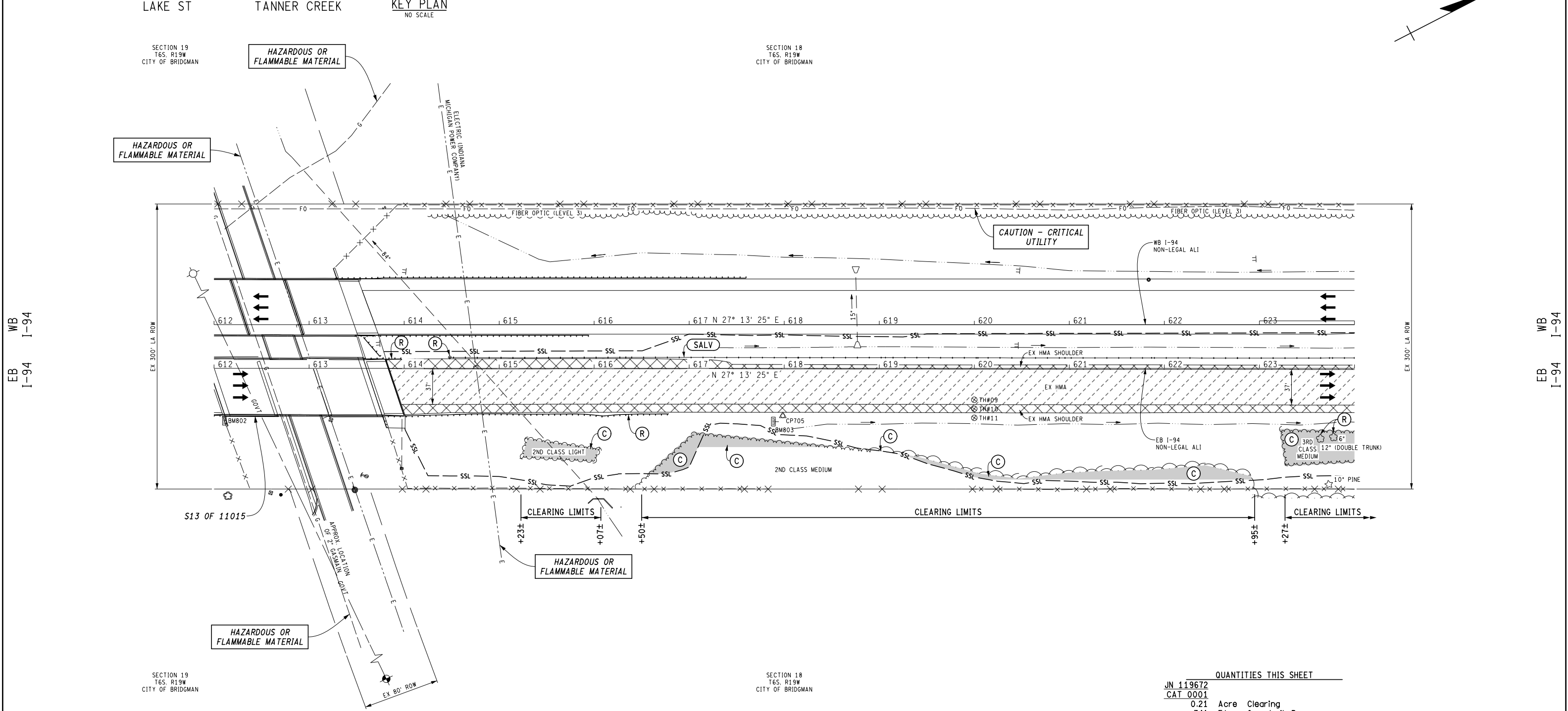
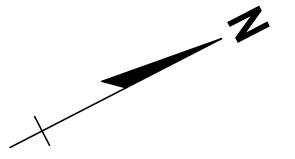
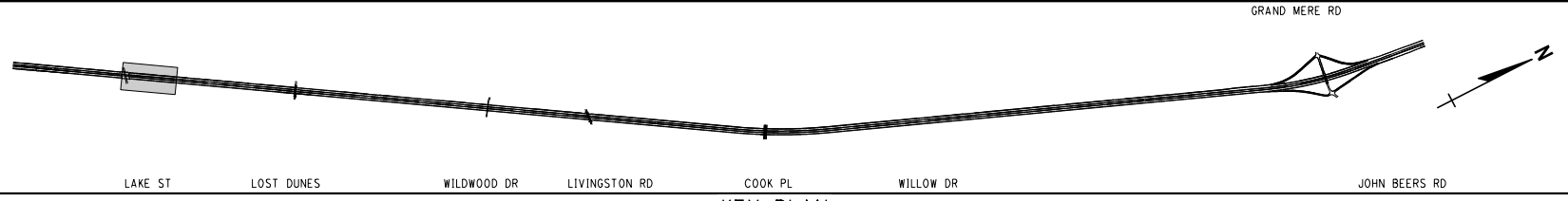


DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_I94EB_PROF_002.dgn

CS: 11015
 JN: 119672A

PROFILE SHEET
 STA 600+00 TO STA 612+00

DRAWING SHEET
 194EB PROF 002
 SECT 1
49



WB I-94
EB I-94

WB I-94
EB I-94

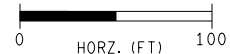
QUANTITIES THIS SHEET

JN 119672 CAT 0001		
0.21	Acre	Clearing
341	Ft	Guardrail, Rem
1746	Syd	Pavt. Rem
5417	Cyd	Excavation, Earth
4150	Syd	Cold Milling HMA Surface
952	Ft	Cable Barrier, High Tension, Salv
95	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem
1	Ea	Cable Barrier, High Tension, End Term Fdn, Rem

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

LAKE ST

TANNER CREEK



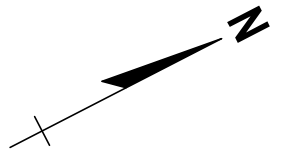
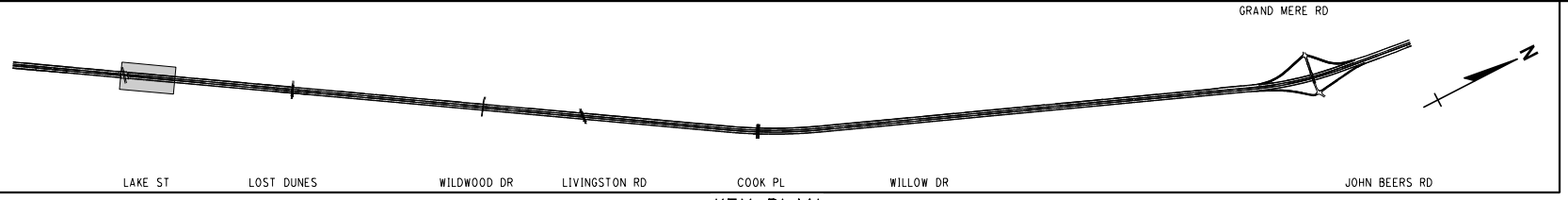
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

REMOVAL SHEET
STA 612+00 TO STA 624+00

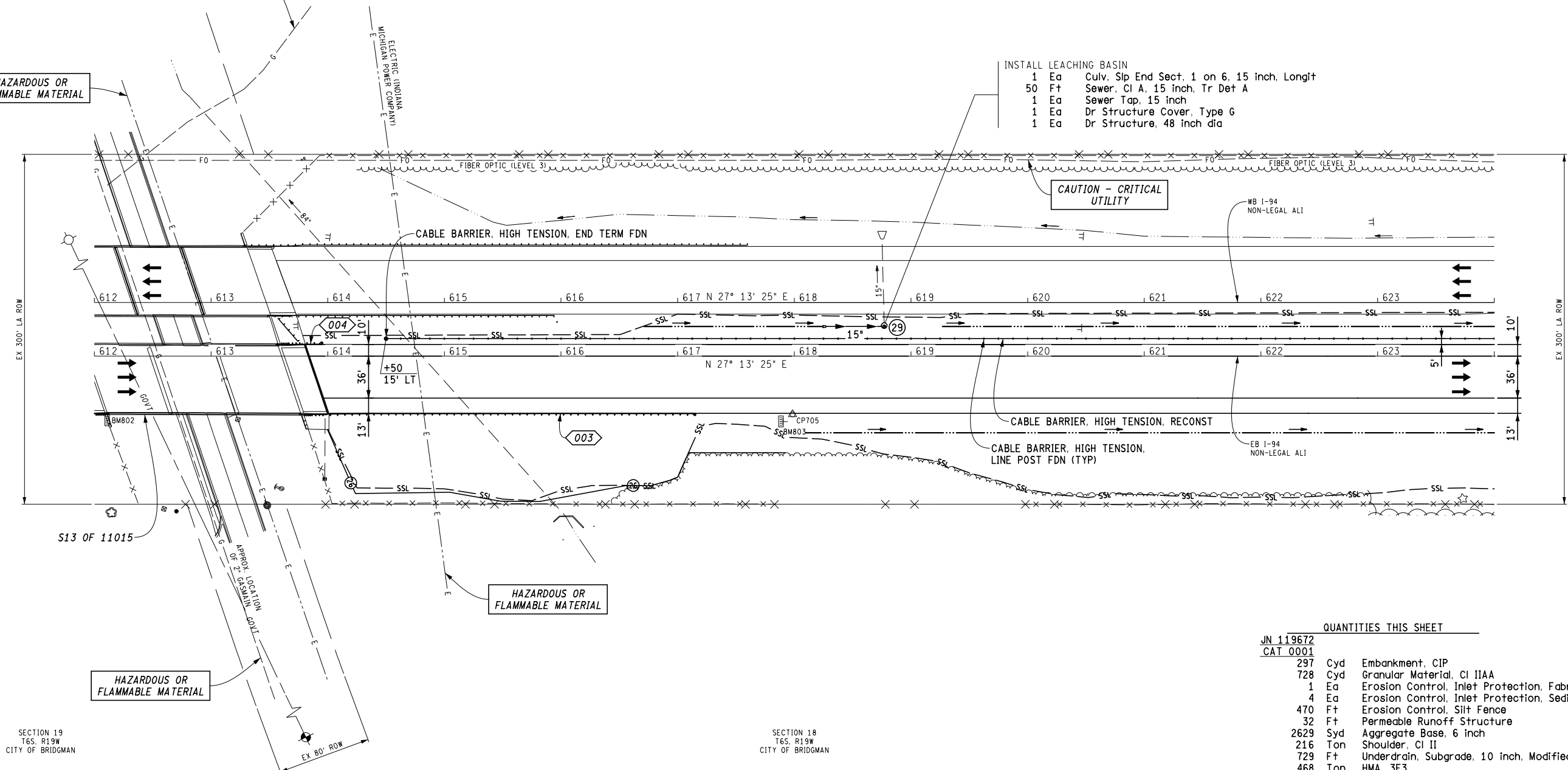
DRAWING SHEET
194EB REM 003 SECT 1
50



LAKE ST TANNER CREEK KEY PLAN NO SCALE

SECTION 19
T6S, R19W
CITY OF BRIDGMAN

SECTION 18
T6S, R19W
CITY OF BRIDGMAN



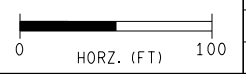
WB I-94
EB I-94

WB I-94
EB I-94

QUANTITIES THIS SHEET

NO.	UNIT	DESCRIPTION
JN 119672		
CAT 0001		
297	Cyd	Embankment, CIP
728	Cyd	Granular Material, CI IIAA
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
4	Ea	Erosion Control, Inlet Protection, Sediment Trap
470	Ft	Erosion Control, Silt Fence
32	Ft	Permeable Runoff Structure
2629	Syd	Aggregate Base, 6 inch
216	Ton	Shoulder, CI II
729	Ft	Underdrain, Subgrade, 10 inch, Modified
468	Ton	HMA, 3E3
312	Ton	HMA, 4E3
489	Ton	HMA, 4E30
234	Ton	HMA, 5E3
367	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
952	Ft	Cable Barrier, High Tension, Reconst
95	Ea	Cable Barrier, High Tension, Line Post Fdn
1	Ea	Cable Barrier, High Tension, End Term Fdn
251	Syd	Mulch Blanket
2704	Syd	Mulch Blanket, High Velocity
5575	Syd	Turf Establishment, Performance
2954	Syd	Dune Grass Planting
2020	Ft	Shoulder Corrugations, Ground or Cut, HMA

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



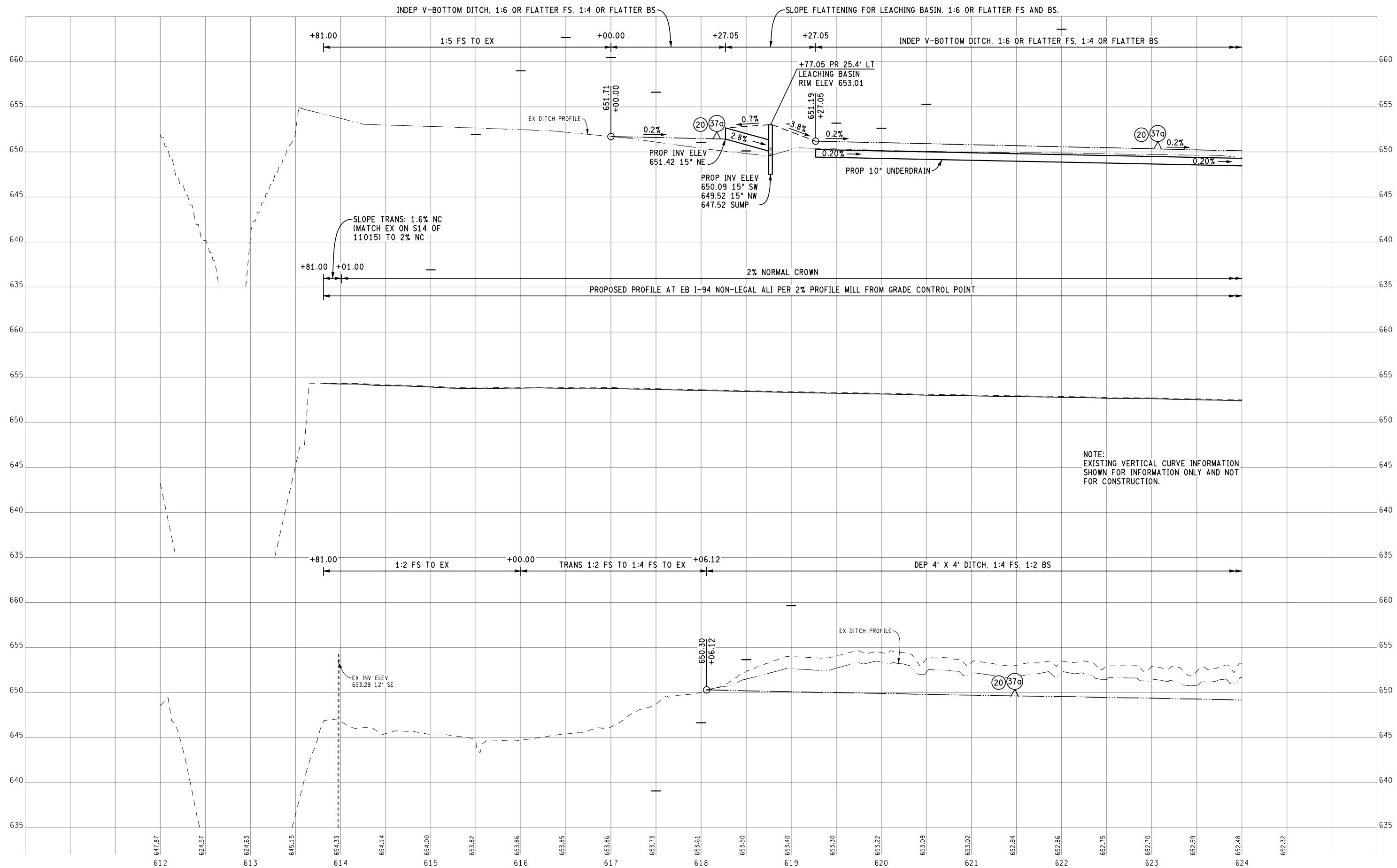
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

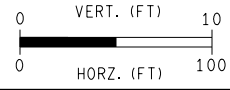
CONSTRUCTION SHEET
STA 612+00 TO STA 624+00

DRAWING SHEET
194EB CON 003 SECT 1
51



NOTE:
EXISTING VERTICAL CURVE INFORMATION
SHOWN FOR INFORMATION ONLY AND NOT
FOR CONSTRUCTION.

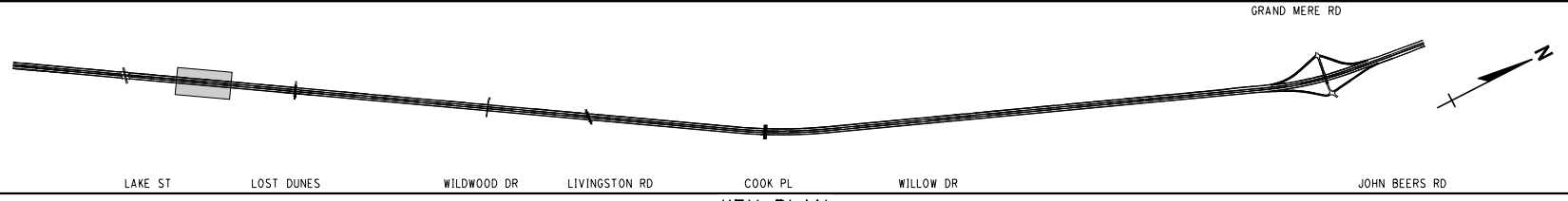
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_194EB_PROF_003.dgn

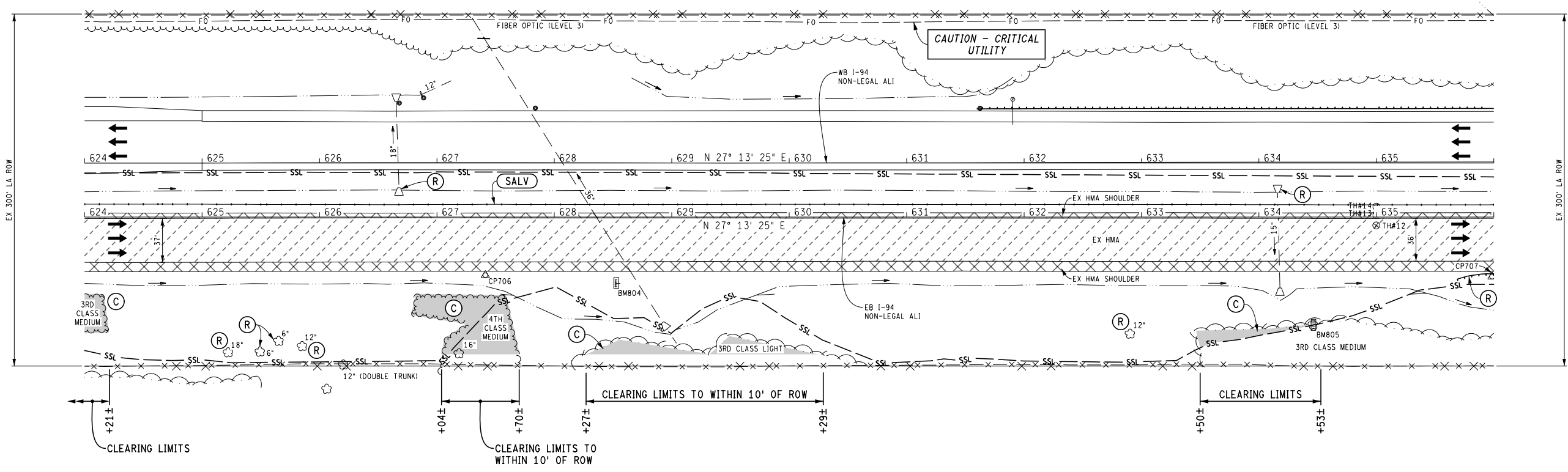
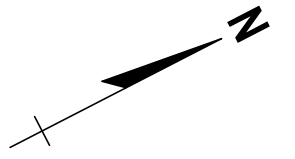
CS: 11015
 JN: 119672A

PROFILE SHEET
 STA 612+00 TO STA 624+00
 DRAWING SHEET
 194EB PROF 003 SECT 1
 52



KEY PLAN
NO SCALE

SECTION 19
T65, R19W
CITY OF BRIDGMAN



WB
I-94

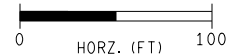
WB
I-94

SECTION 19
T65, R19W
CITY OF BRIDGMAN

QUANTITIES THIS SHEET

JN 119672 CAT 0001		
0.14	Acre	Clearing
5	Ea	Tree, Rem, 6 inch to 18 inch
2	Ea	Culv. End, Rem, Less than 24 inch
32	Ft	Guardrail, Rem
1772	Syd	Pavt, Rem
7123	Cyd	Excavation, Earth
4867	Syd	Cold Milling HMA Surface
1200	Ft	Cable Barrier, High Tension, Salv
114	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem

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



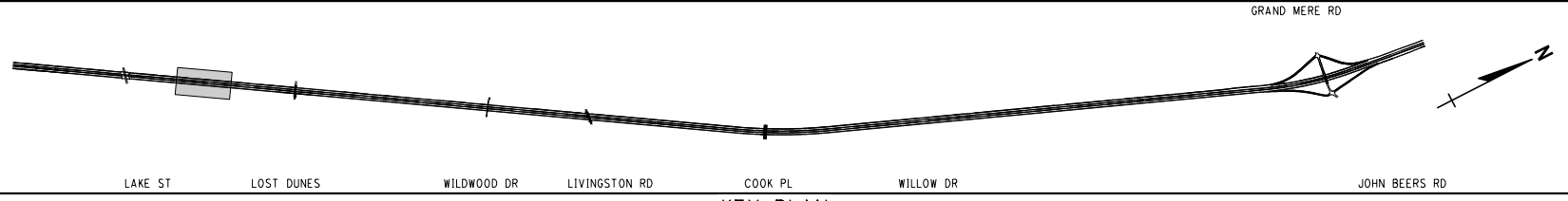
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

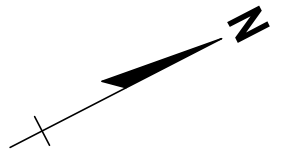
REMOVAL SHEET
STA 624+00 TO STA 636+00

DRAWING SHEET
194EB REM 004 SECT 1
53

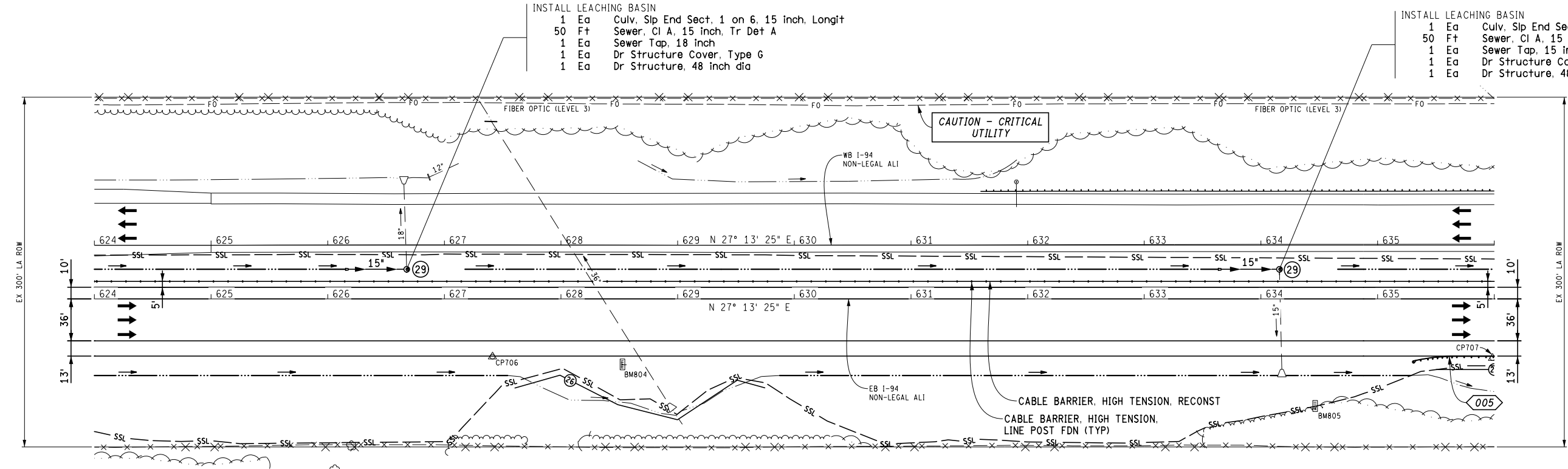


KEY PLAN
NO SCALE

SECTION 19
T6S, R19W
CITY OF BRIDGMAN



WB
I-94



WB
I-94

- INSTALL LEACHING BASIN
- 1 Ea Culv. Slip End Sect. 1 on 6, 15 inch, Longit
 - 50 Ft Sewer, CI A, 15 inch, Tr Det A
 - 1 Ea Sewer Tap, 18 inch
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

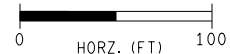
- INSTALL LEACHING BASIN
- 1 Ea Culv. Slip End Sect. 1 on 6, 15 inch, Longit
 - 50 Ft Sewer, CI A, 15 inch, Tr Det A
 - 1 Ea Sewer Tap, 15 inch
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

QUANTITIES THIS SHEET

JN 119672	170	Cyd	Embankment, CIP
CAT 0001	1745	Cyd	Granular Material, CI IIAA
	2	Ea	Erosion Control, Inlet Protection, Fabric Drop
	6	Ea	Erosion Control, Inlet Protection, Sediment Trap
	230	Ft	Erosion Control, Silt Fence
	48	Ft	Permeable Runoff Structure
	3128	Syd	Aggregate Base, 6 inch
	276	Ton	Shoulder, CI II
	1200	Ft	Underdrain, Subgrade, 10 inch, Modified
	557	Ton	HMA, 3E3
	372	Ton	HMA, 4E3
	581	Ton	HMA, 4E30
	279	Ton	HMA, 5E3
	436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
	1200	Ft	Cable Barrier, High Tension, Reconst
	114	Ea	Cable Barrier, High Tension, Line Post Fdn
	327	Syd	Mulch Blanket
	4494	Syd	Mulch Blanket, High Velocity
	5648	Syd	Turf Establishment, Performance
	4820	Syd	Dune Grass Planting
	2400	Ft	Shoulder Corrugations, Ground or Cut, HMA

SECTION 19
T6S, R19W
CITY OF BRIDGMAN

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



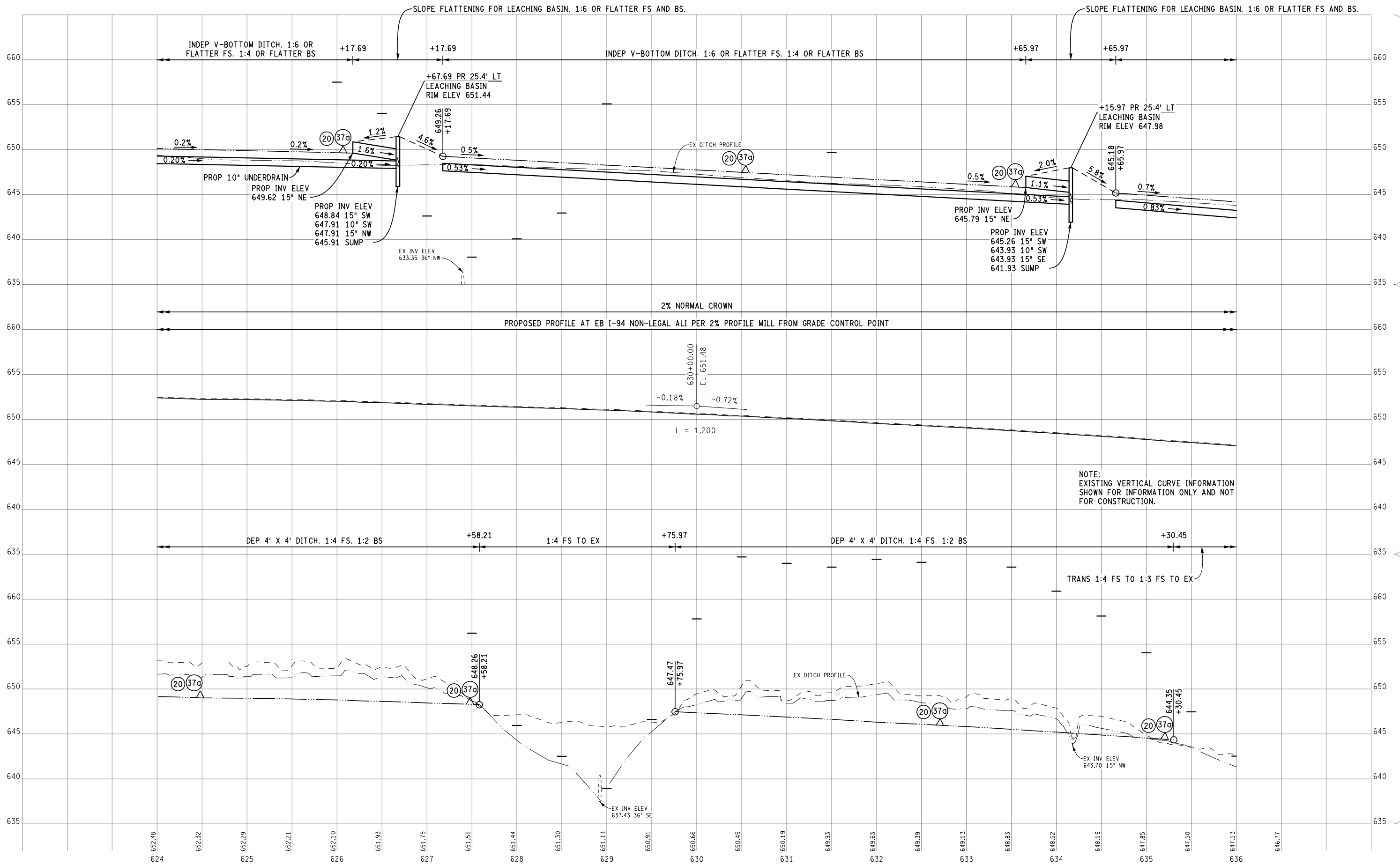
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

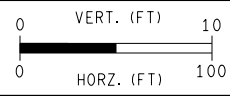
CS: 11015
JN: 119672A

CONSTRUCTION SHEET
STA 624+00 TO STA 636+00

DRAWING SHEET
194EB CON 004 SECT 1
54



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

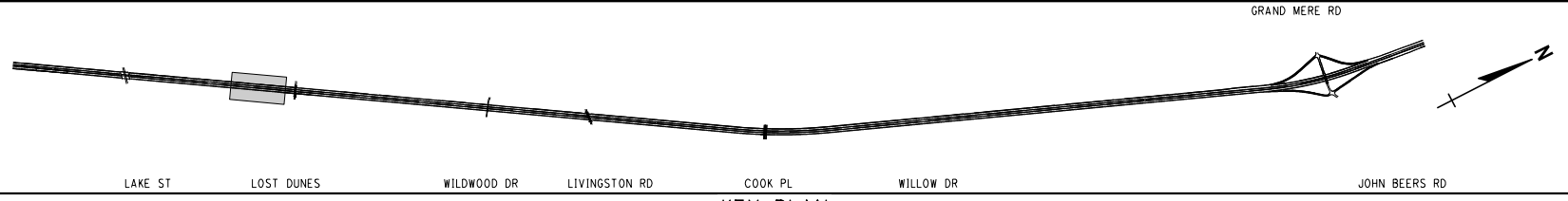


DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_194EB_PROF_004.dgn

CS: 11015
 JN: 119672A

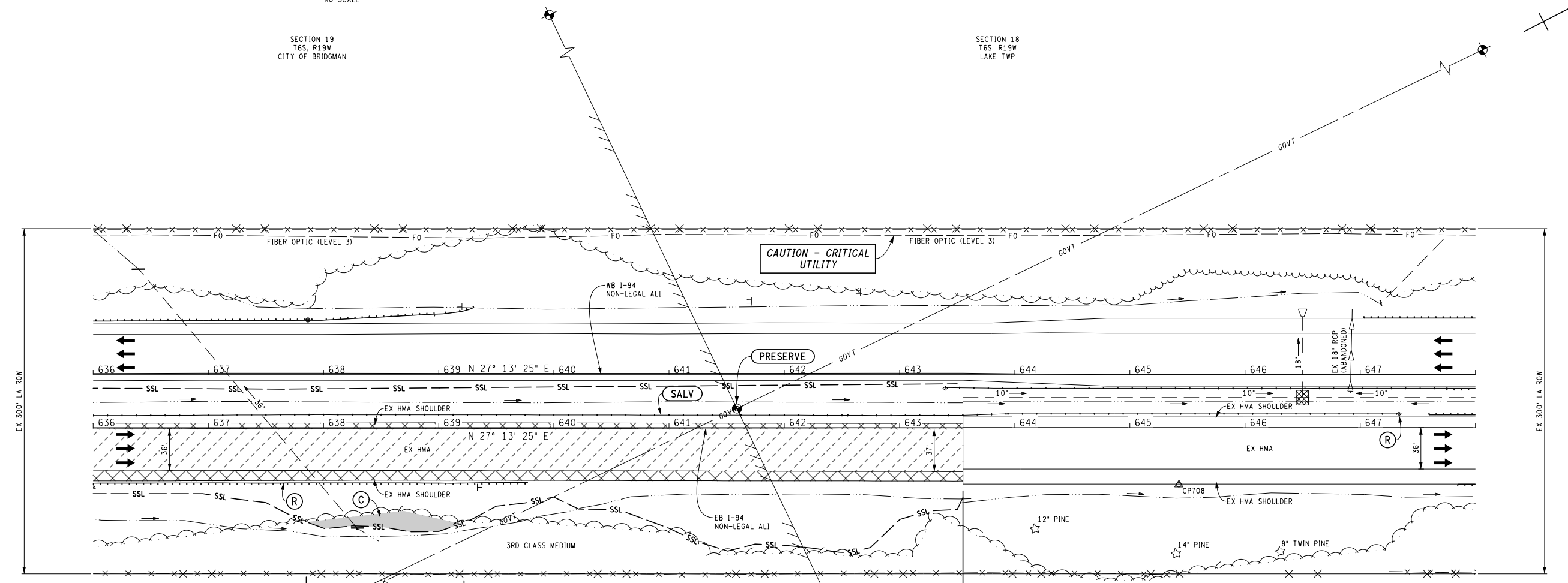
PROFILE SHEET
 STA 624+00 TO STA 636+00

DRAWING SHEET
 194EB PROF 004
 SECT 1
 55



SECTION 19
T6S. R19W
CITY OF BRIDGMAN

SECTION 18
T6S. R19W
LAKE TWP



WB
I-94

WB
I-94

END HMA
COLD MILLING
CS: 11015
JN: 119672A
STA: 643+55
CS MP: 13.529
PR #: 1360804
PR MP: 16.762

CLEARING LIMITS
+85±
+22±

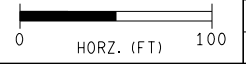
SECTION 18
T6S. R19W
CITY OF BRIDGMAN

SECTION 18
T6S. R19W
LAKE TWP

QUANTITIES THIS SHEET

JN 119672	0.04	Acre	Clearing
CAT 0001	378	Ft	Guardrail, Rem
	1145	Syd	Pavt, Rem
	2017	Cyd	Excavation, Earth
	3020	Syd	Cold Milling HMA Surface
	1137	Ft	Cable Barrier, High Tension, Salv
	112	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem
	1	Ea	Cable Barrier, High Tension, End Term Fdn, Rem

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



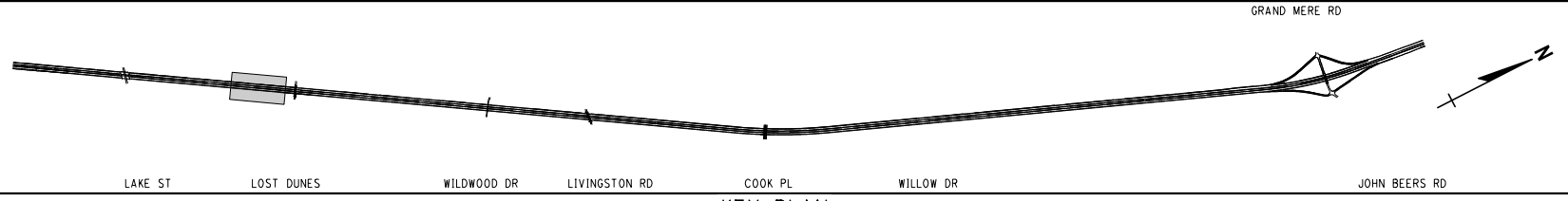
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

REMOVAL SHEET
STA 636+00 TO STA 648+00

DRAWING SHEET
194EB REM 005 SECT 1
56



KEY PLAN
NO SCALE

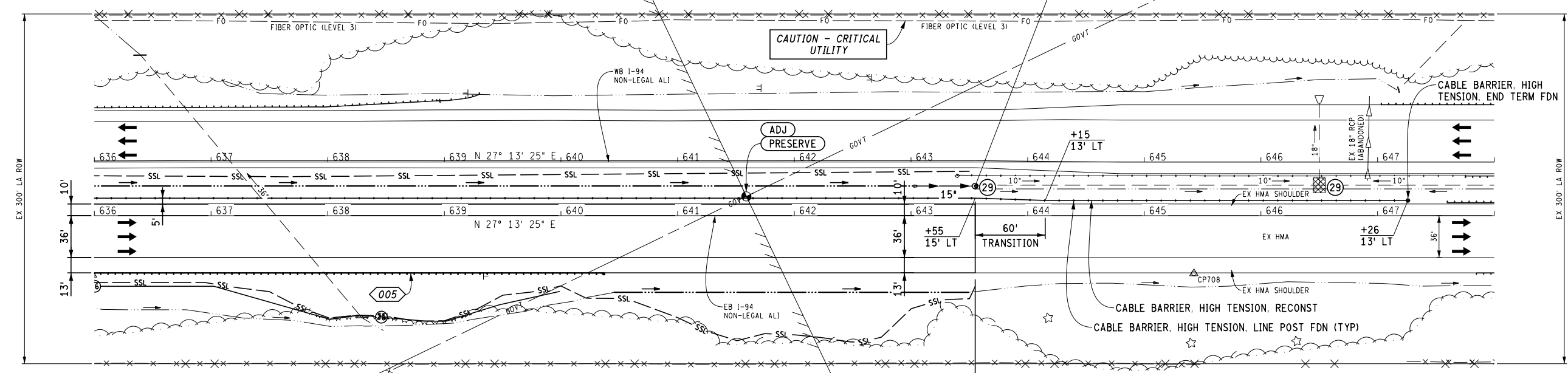
SECTION 19
T6S, R19W
CITY OF BRIDGMAN

SECTION 18
T6S, R19W
LAKE TWP

- INSTALL LEACHING BASIN
- 1 Ea Culv. Slip End Sect. 1 on 6, 15 inch, Longit
 - 50 Ft Sewer, CI A, 15 inch, Tr Det A
 - 1 Ea Sewer Tap, 10 inch
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

WB
I-94

WB
I-94



END HMA OVERLAY
CS: 11015
JN: 119672A
STA: 643+55
CS MP: 13.529
PR #: 1360804
PR MP: 16.762

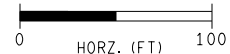
SECTION 18
T6S, R19W
CITY OF BRIDGMAN

SECTION 18
T6S, R19W
LAKE TWP

QUANTITIES THIS SHEET

JN 119672		CAT 0001	
270	Cyd	Embankment, CIP	
1149	Cyd	Granular Material, CI IIAA	
2	Ea	Erosion Control, Inlet Protection, Fabric Drop	
3	Ea	Erosion Control, Inlet Protection, Sediment Trap	
420	Ft	Erosion Control, Silt Fence	
24	Ft	Permeable Runoff Structure	
1969	Syd	Aggregate Base, 6 inch	
168	Ton	Shoulder, CI II	
755	Ft	Underdrain, Subgrade, 10 inch, Modified	
351	Ton	HMA, 3E3	
234	Ton	HMA, 4E3	
366	Ton	HMA, 4E30	
176	Ton	HMA, 5E3	
275	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)	
1137	Ft	Cable Barrier, High Tension, Reconst	
113	Ea	Cable Barrier, High Tension, Line Post Fdn	
1	Ea	Cable Barrier, High Tension, End Term Fdn	
146	Syd	Mulch Blanket	
851	Syd	Mulch Blanket, High Velocity	
3713	Syd	Turf Establishment, Performance	
997	Syd	Dune Grass Planting	
1	Ea	Monument Box Adjust	
1	Ea	Monument Preservation	
1510	Ft	Shoulder Corrugations, Ground or Cut, HMA	

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



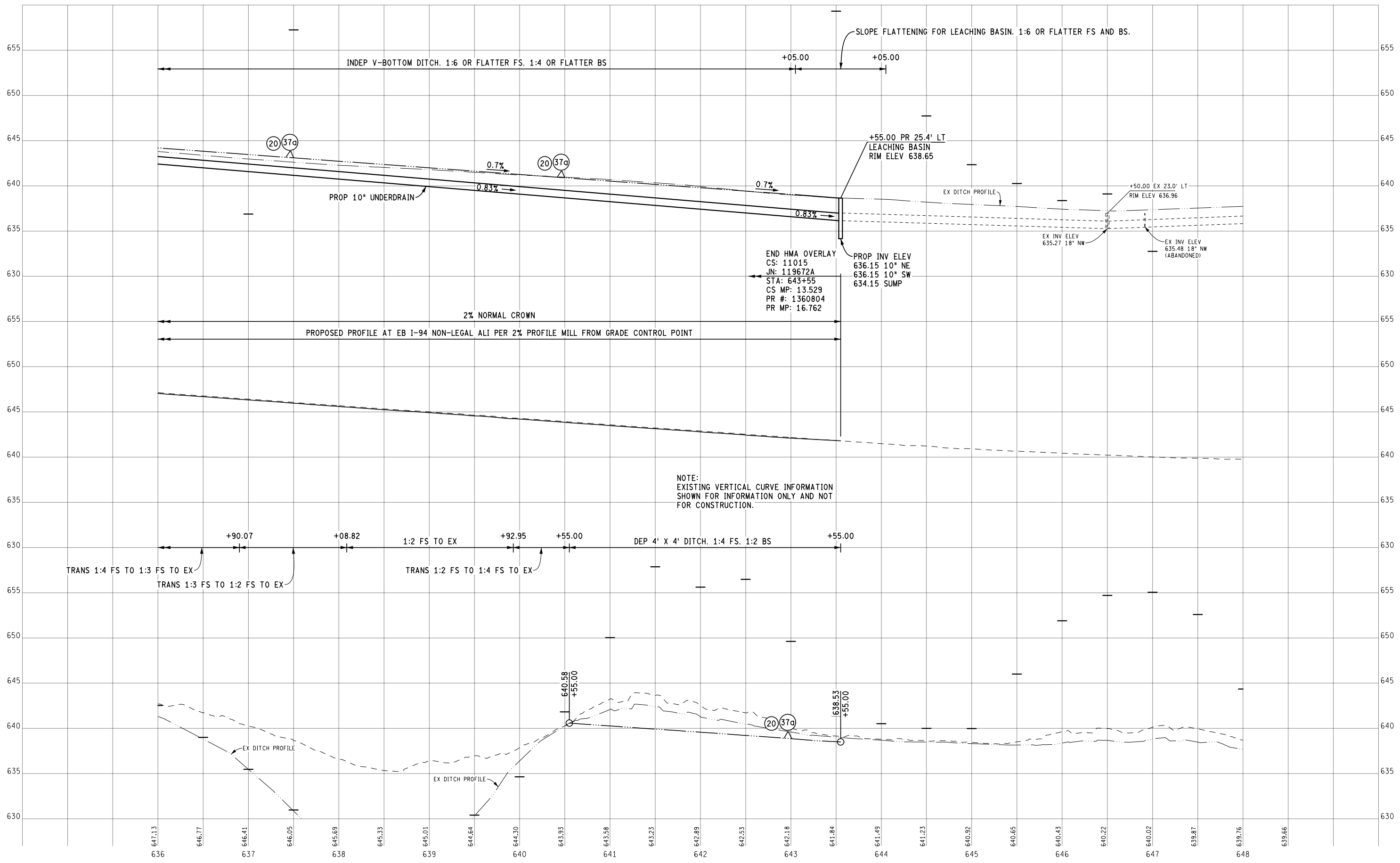
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TSC: KALAMAZOO

CS: 11015
JN: 119672A

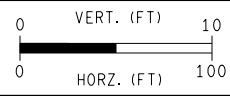
CONSTRUCTION SHEET
STA 636+00 TO STA 648+00

DRAWING SHEET
194EB CON 005 SECT 1 57



EX GROUND PROFILE 23' LT
 EX GROUND POINTS 173' LT
 PROP LT DITCH PROFILE
 EX GROUND PROFILE AT EB I-94 NON-LEGAL ALI
 APPROXIMATE PROFILE AT EB I-94 NON-LEGAL ALI
 EX GROUND PROFILE 66' RT
 EX GROUND POINTS 123' RT
 EX GROUND PROFILE AT EB I-94 NON-LEGAL ALI
 APPROXIMATE PROFILE AT EB I-94 NON-LEGAL ALI
 PROP RT DITCH PROFILE

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

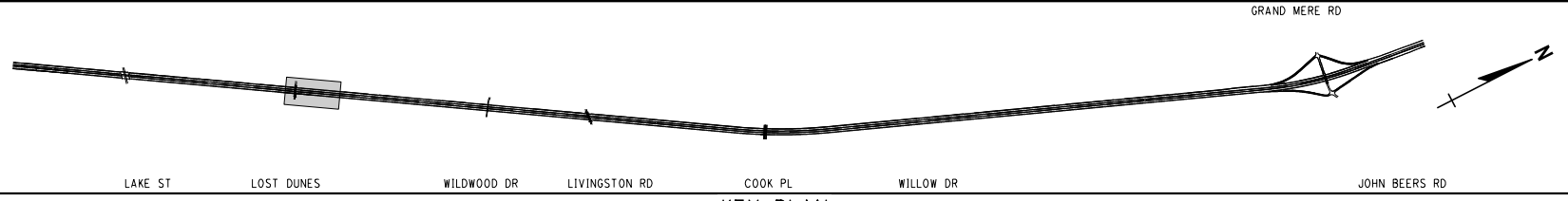


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 TSC: KALAMAZOO
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CS: 11015
 JN: 119672A

PROFILE SHEET
 STA 636+00 TO STA 648+00

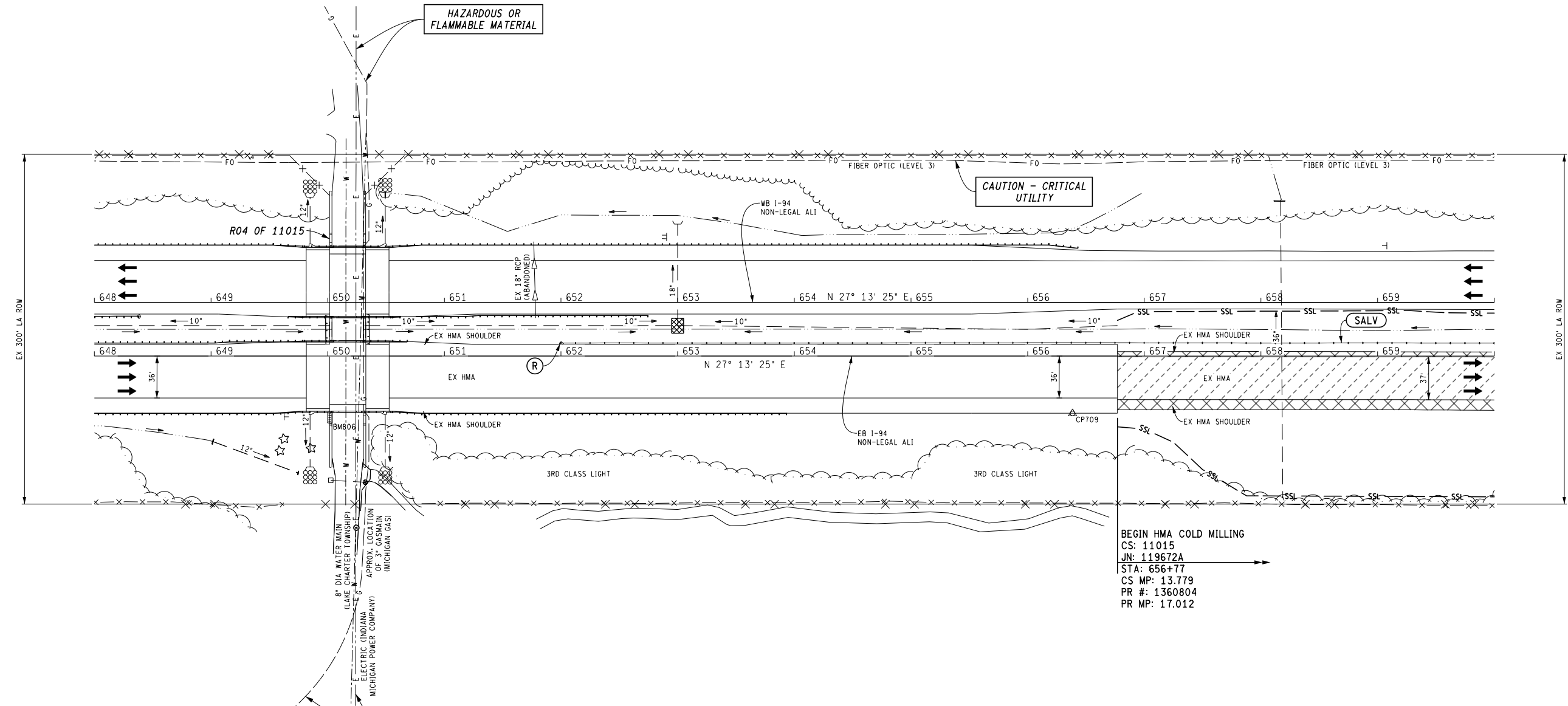
DRAWING SHEET
 194EB PROF 005
 SECT 1
 58



KEY PLAN
NO SCALE

LOST DUNES

SECTION 18
T6S, R19W
LAKE TWP



WB
I-94

WB
I-94

HAZARDOUS OR
FLAMMABLE MATERIAL

SECTION 18
T6S, R19W
LAKE TWP

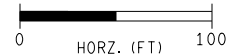
BEGIN HMA COLD MILLING
CS: 11015
JN: 119672A
STA: 656+77
CS MP: 13.779
PR #: 1360804
PR MP: 17.012

QUANTITIES THIS SHEET

JN 119672		
CAT 0001		
478	Syd	Pavt. Rem
477	Cyd	Excavation, Earth
1328	Syd	Cold Milling HMA Surface
800	Ft	Cable Barrier, High Tension, Salv
81	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem
1	Ea	Cable Barrier, High Tension, End Term Fdn, Rem

LOST DUNES

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



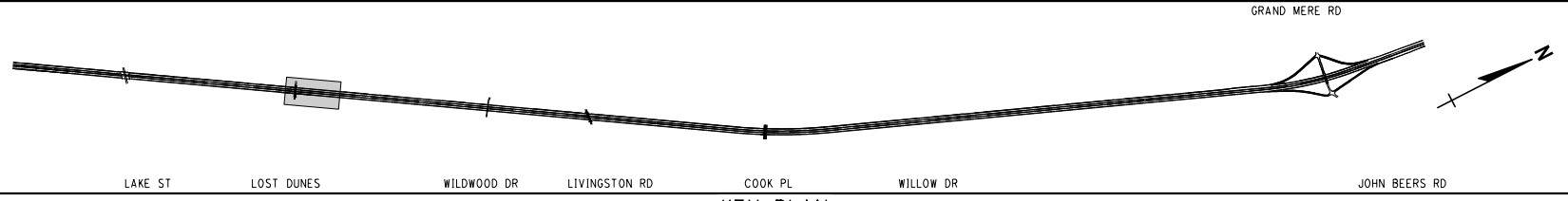
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

REMOVAL SHEET
STA 648+00 TO STA 660+00

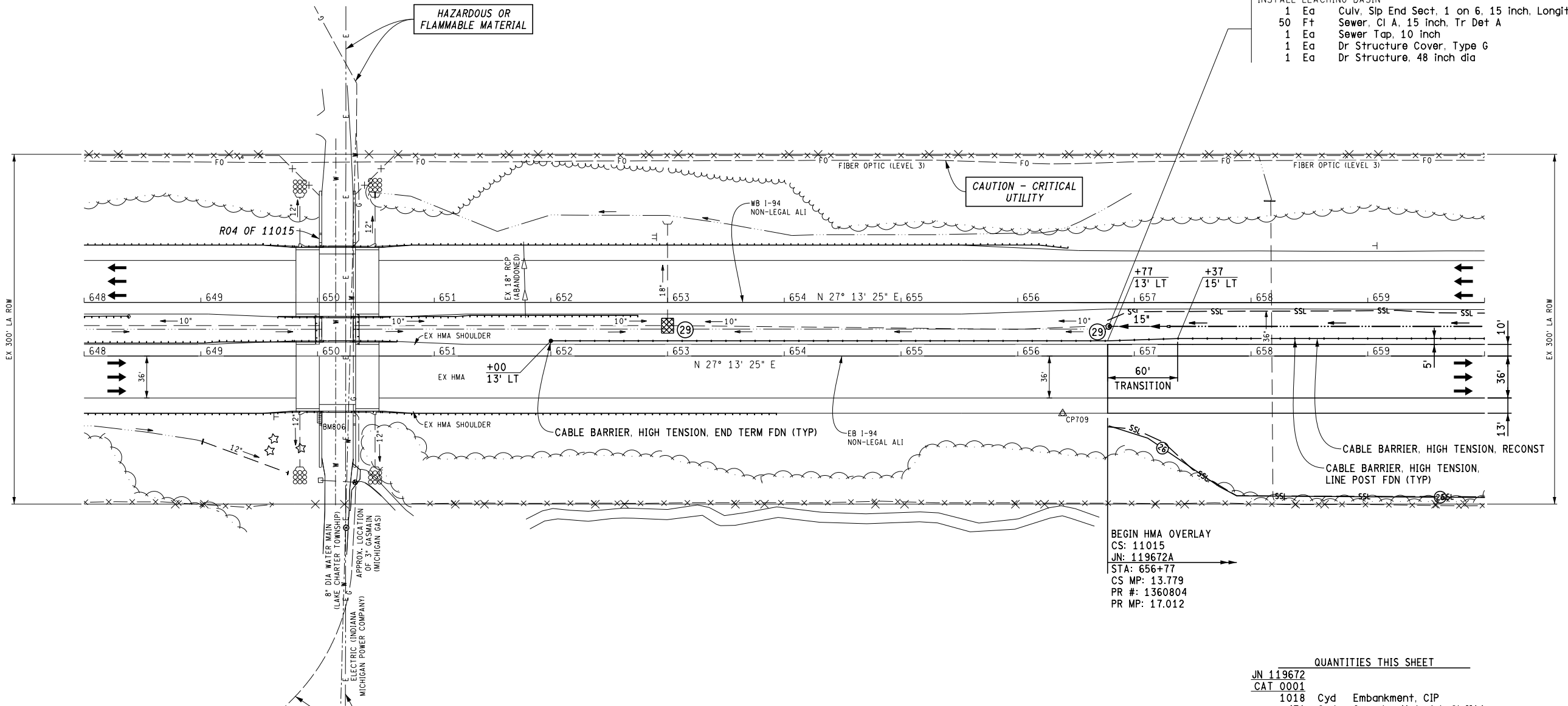
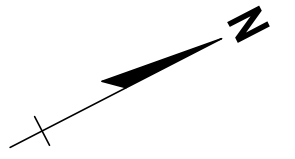
DRAWING SHEET
194EB REM 006 SECT 1
59



KEY PLAN
NO SCALE

LOST DUNES

SECTION 18
T6S, R19W
LAKE TWP



- INSTALL LEACHING BASIN
- 1 Ea Culv, Slip End Sect, 1 on 6, 15 inch, Longit
 - 50 Ft Sewer, Cl A, 15 inch, Tr Det A
 - 1 Ea Sewer Tap, 10 inch
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

WB
I-94

WB
I-94

BEGIN HMA OVERLAY
CS: 11015
JN: 119672A
STA: 656+77
CS MP: 13.779
PR #: 1360804
PR MP: 17.012

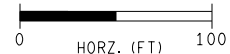
QUANTITIES THIS SHEET

NO.	DESCRIPTION	QUANTITY	UNIT
JN 119672			
CAT 0001			
1018	Embankment, CIP		Cyd
471	Granular Material, Cl IIAA		Cyd
2	Erosion Control, Inlet Protection, Fabric Drop		Ea
2	Erosion Control, Inlet Protection, Sediment Trap		Ea
340	Erosion Control, Silt Fence		Ft
16	Permeable Runoff Structure		Ft
842	Aggregate Base, 6 inch		Syd
75	Shoulder, Cl II		Ton
324	Underdrain, Subgrade, 10 inch, Modified		Ft
150	HMA, 3E3		Ton
100	HMA, 4E3		Ton
157	HMA, 4E30		Ton
75	HMA, 5E3		Ton
118	HMA Gap-Graded Superpave (3/8 inch Nominal Max)		Ton
800	Cable Barrier, High Tension, Reconst		Ft
81	Cable Barrier, High Tension, Line Post Fdn		Ea
1	Cable Barrier, High Tension, End Term Fdn		Ea
2980	Turf Establishment, Performance		Syd
646	Shoulder Corrugations, Ground or Cut, HMA		Ft

LOST DUNES

SECTION 18
T6S, R19W
LAKE TWP

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



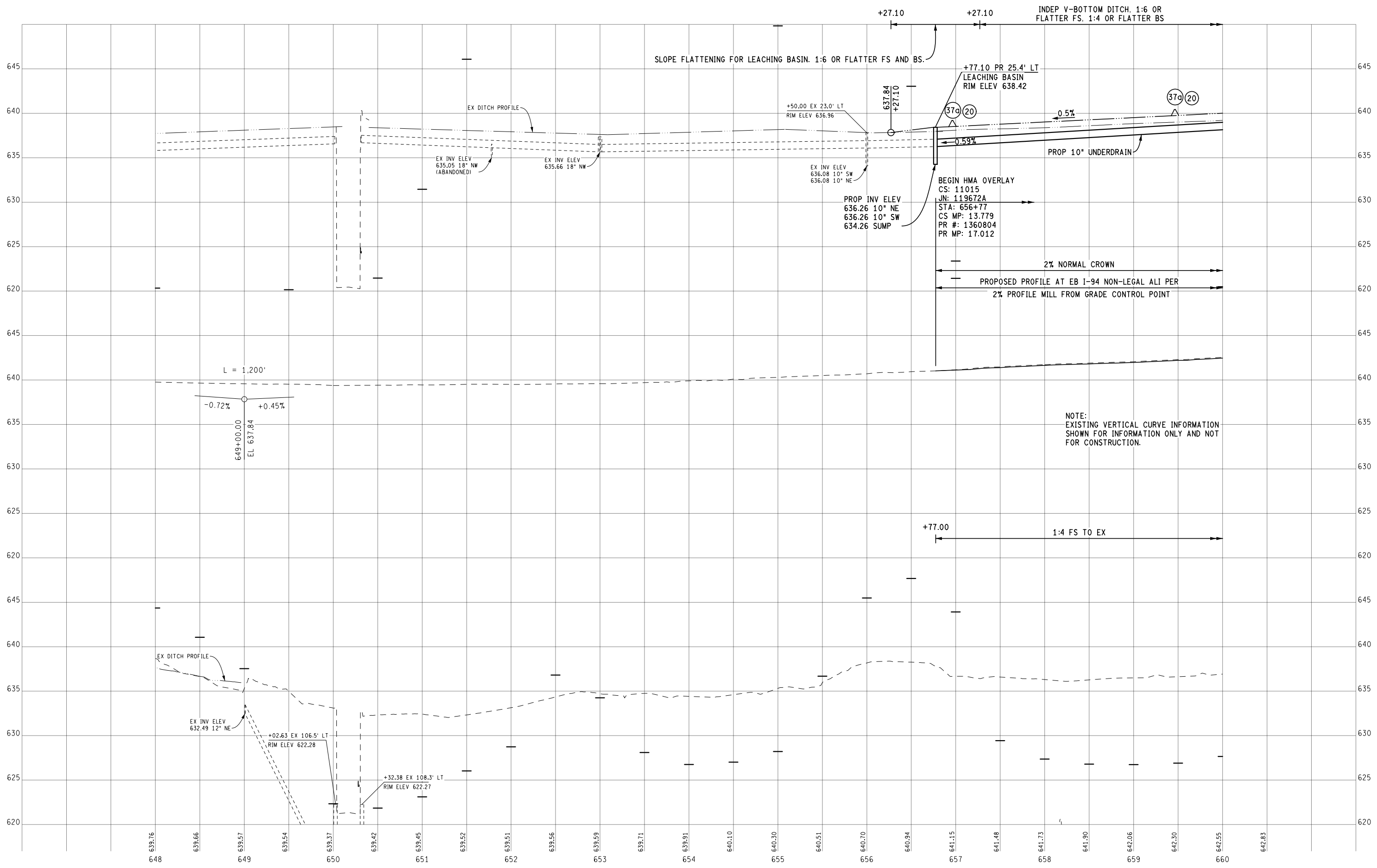
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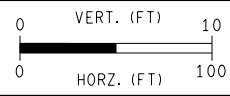
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JN: 119672A

CONSTRUCTION SHEET
STA 648+00 TO STA 660+00

DRAWING SHEET
194EB CON 006 SECT 1
60



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

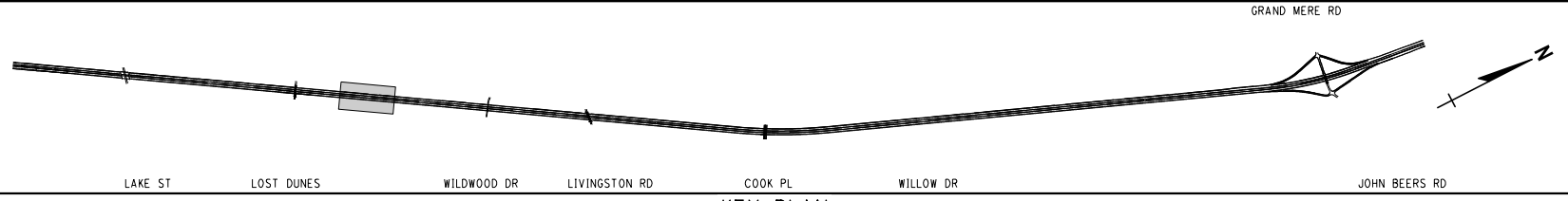


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CS: 11015
 JN: 119672A

PROFILE SHEET
 STA 648+00 TO STA 660+00

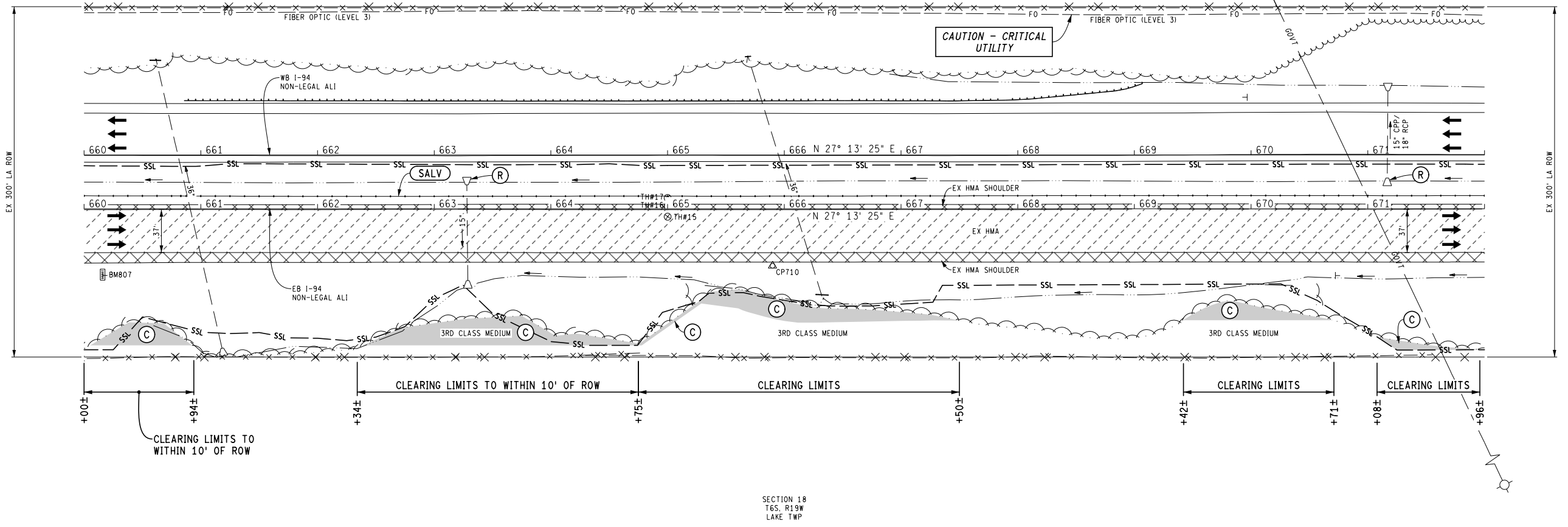
DRAWING SHEET
 194EB PROF 006
 SECT 1
 61



KEY PLAN
NO SCALE

SECTION 18
T6S, R19W
LAKE TWP

SECTION 7
T6S, R19W
LAKE TWP



WB
I-94

WB
I-94

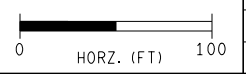
SECTION 18
T6S, R19W
LAKE TWP

SECTION 7
T6S, R19W
LAKE TWP

QUANTITIES THIS SHEET

JN 119672	0.2	Ac	Clearing
CAT 0001	2	Ea	Culv. End. Rem. Less than 24 inch
	1745	Syd	Pavt. Rem
	3026	Cyd	Excavation, Earth
	4934	Syd	Cold Milling HMA Surface
	1200	Ft	Cable Barrier, High Tension, Salv
	119	Ea	Cable Barrier, High Tension, Line Post Fdn. Rem

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



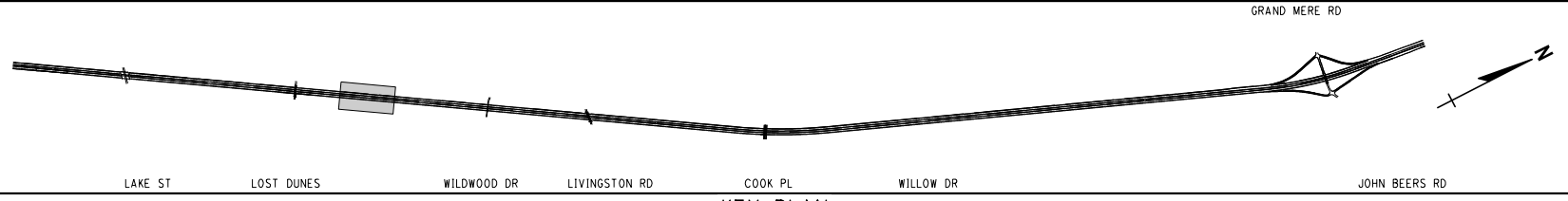
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

REMOVAL SHEET
STA 660+00 TO STA 672+00

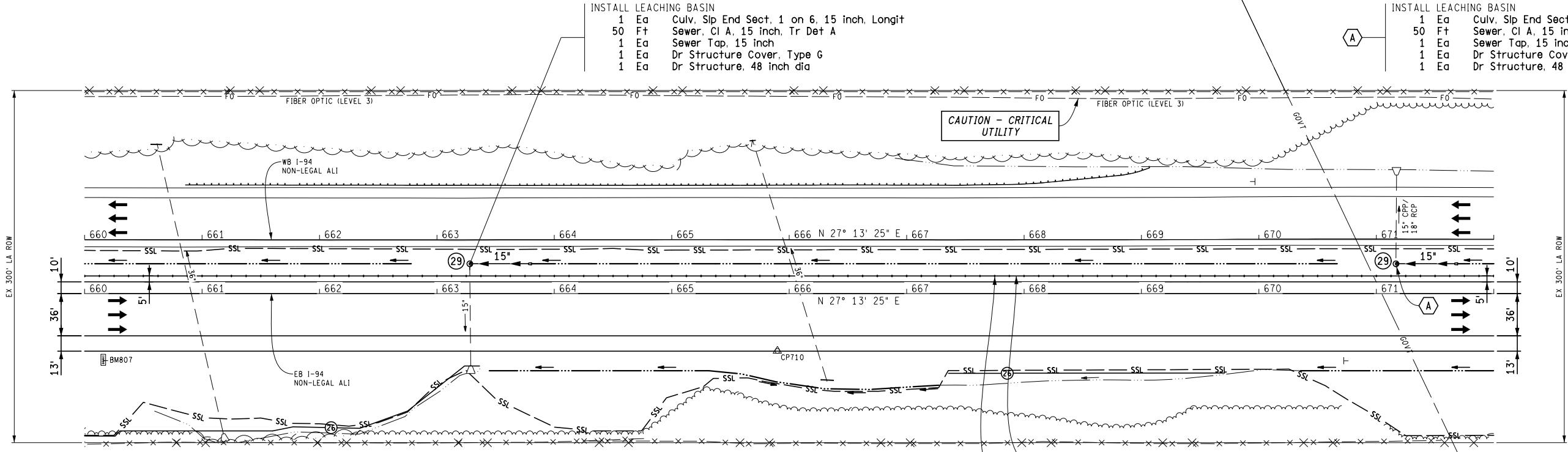
DRAWING SHEET
194EB REM 007 SECT 1
62



KEY PLAN
NO SCALE

SECTION 18
T6S, R19W
LAKE TWP

SECTION 7
T6S, R19W
LAKE TWP



WB I-94
EB I-94

WB I-94
EB I-94

CABLE BARRIER, HIGH TENSION, RECONST
CABLE BARRIER, HIGH TENSION, LINE POST FDN (TYP)

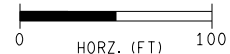
SECTION 18
T6S, R19W
LAKE TWP

SECTION 7
T6S, R19W
LAKE TWP

QUANTITIES THIS SHEET

NO.	UNIT	DESCRIPTION
661	Cyd	Embankment, CIP
1710	Cyd	Granular Material, Cl IIAA
40	Ft	Erosion Control, Check Dam, Stone
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
12	Ea	Erosion Control, Inlet Protection, Sediment Trap
615	Ft	Erosion Control, Silt Fence
56	Ft	Permeable Runoff Structure
3128	Syd	Aggregate Base, 6 inch
276	Ton	Shoulder, Cl II
1200	Ft	Underdrain, Subgrade, 10 inch, Modified
557	Ton	HMA, 3E3
372	Ton	HMA, 4E3
581	Ton	HMA, 4E30
279	Ton	HMA, 5E3
436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
1200	Ft	Cable Barrier, High Tension, Reconst
119	Ea	Cable Barrier, High Tension, Line Post Fdn
618	Syd	Mulch Blanket
1628	Syd	Mulch Blanket, High Velocity
7025	Syd	Turf Establishment, Performance
2246	Syd	Dune Grass Planting
2400	Ft	Shoulder Corrugations, Ground or Cut, HMA

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



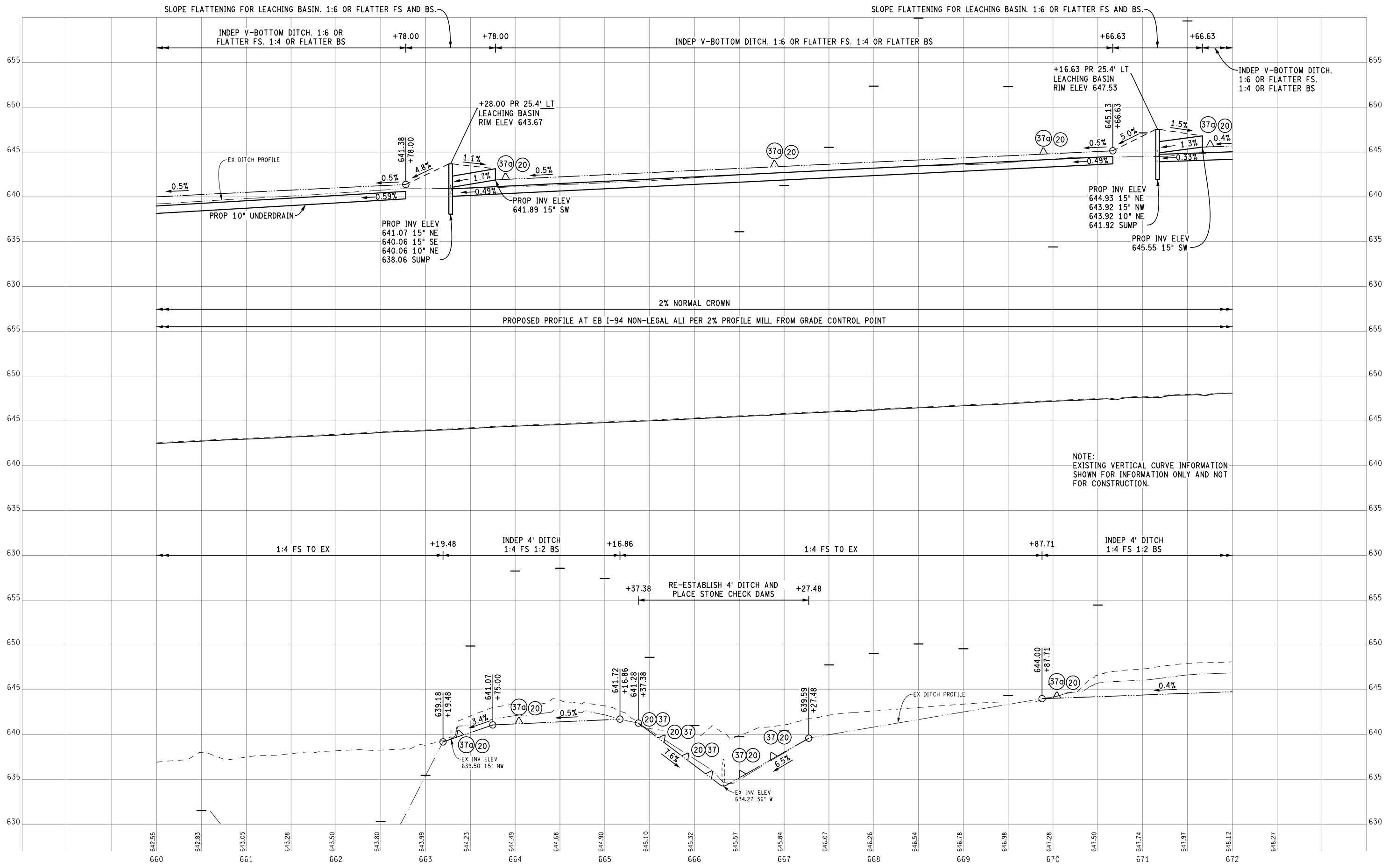
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

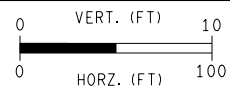
CONSTRUCTION SHEET
STA 660+00 TO STA 672+00

DRAWING SHEET
194EB CON 007
SECT 1
63



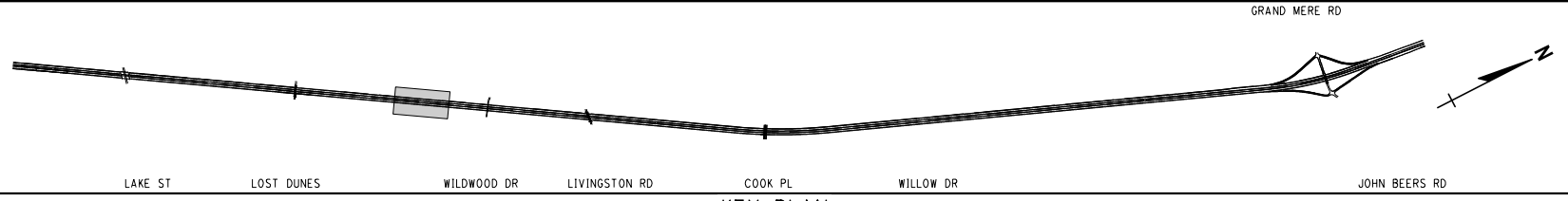
EX GROUND PROFILE 23' LT
 EX GROUND POINTS 173' LT
 PROP LT DITCH PROFILE
 EX GROUND PROFILE AT EB I-94 NON-LEGAL ALI
 APPROXIMATE PROFILE AT EB I-94 NON-LEGAL ALI
 EX GROUND PROFILE 66' RT
 EX GROUND POINTS 123' RT
 EX GROUND PROFILE AT EB I-94 NON-LEGAL ALI
 APPROXIMATE PROFILE AT EB I-94 NON-LEGAL ALI
 PROP RT DITCH PROFILE

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



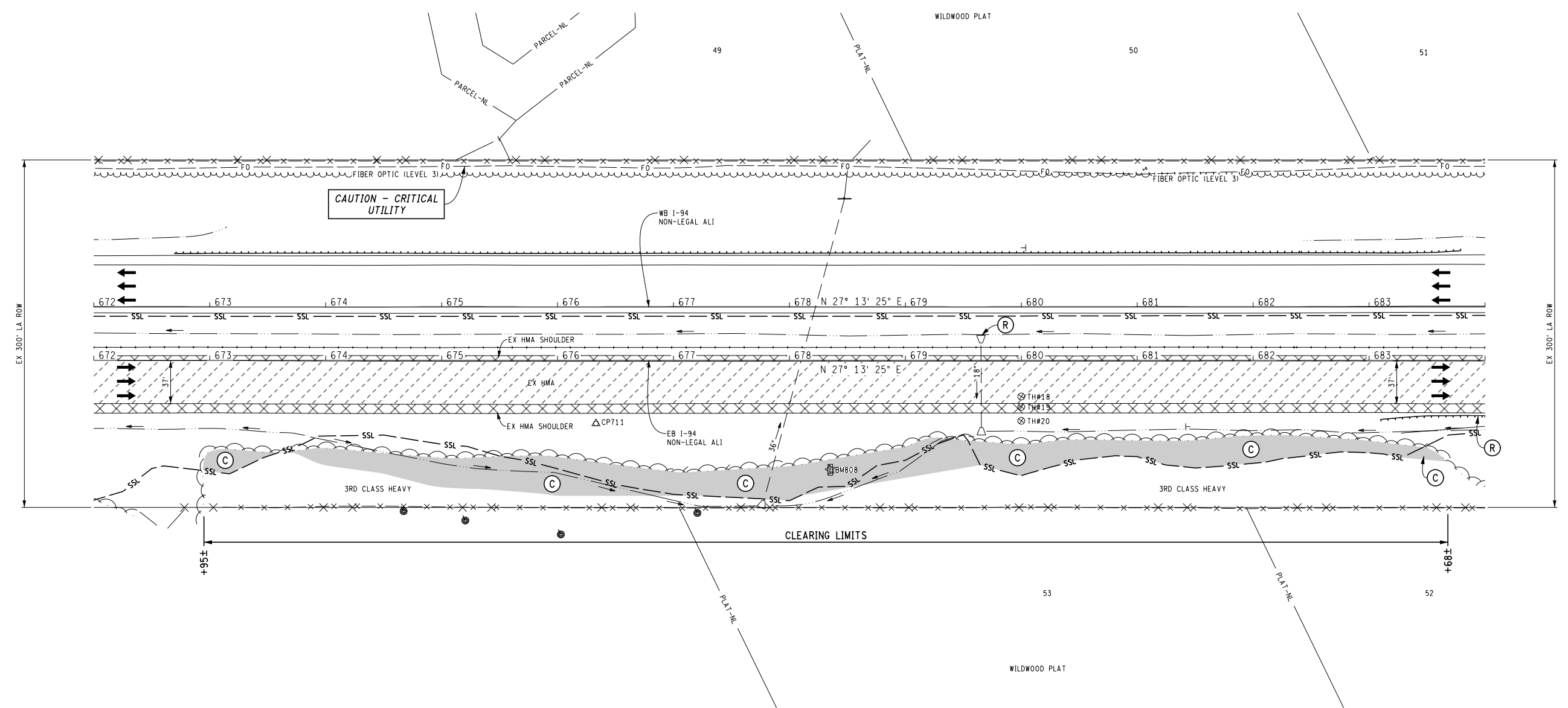
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PROFILE SHEET
 STA 660+00 TO STA 672+00
 DRAWING SHEET
 194EB PROF 007
 SECT 1
 64



KEY PLAN
NO SCALE

SECTION 7
T6S, R19W
LAKE TWP



WB I-94
EB I-94

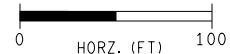
WB I-94
EB I-94

QUANTITIES THIS SHEET

JN 119672
CAT 0001

0.53	Acre	Clearing
1	Ea	Culv. End. Rem. Less than 24 inch
90	Ft	Guardrail, Rem
1751	Syd	Pavt. Rem
2741	Cyd	Excavation, Earth
4934	Syd	Cold Milling HMA Surface
1200	Ft	Cable Barrier, High Tension, Salv
119	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem

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



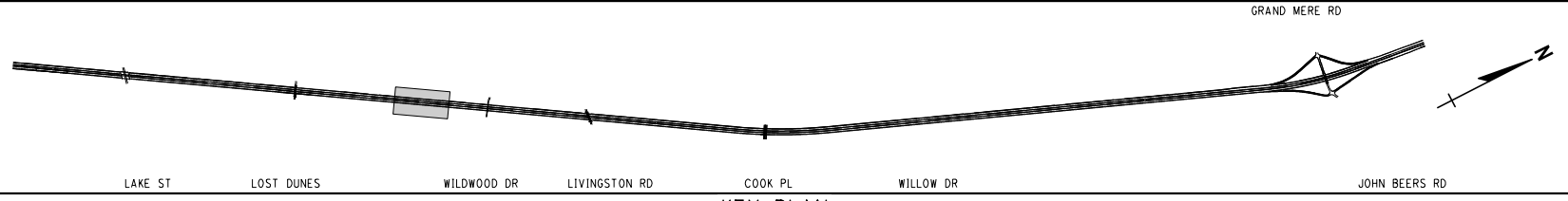
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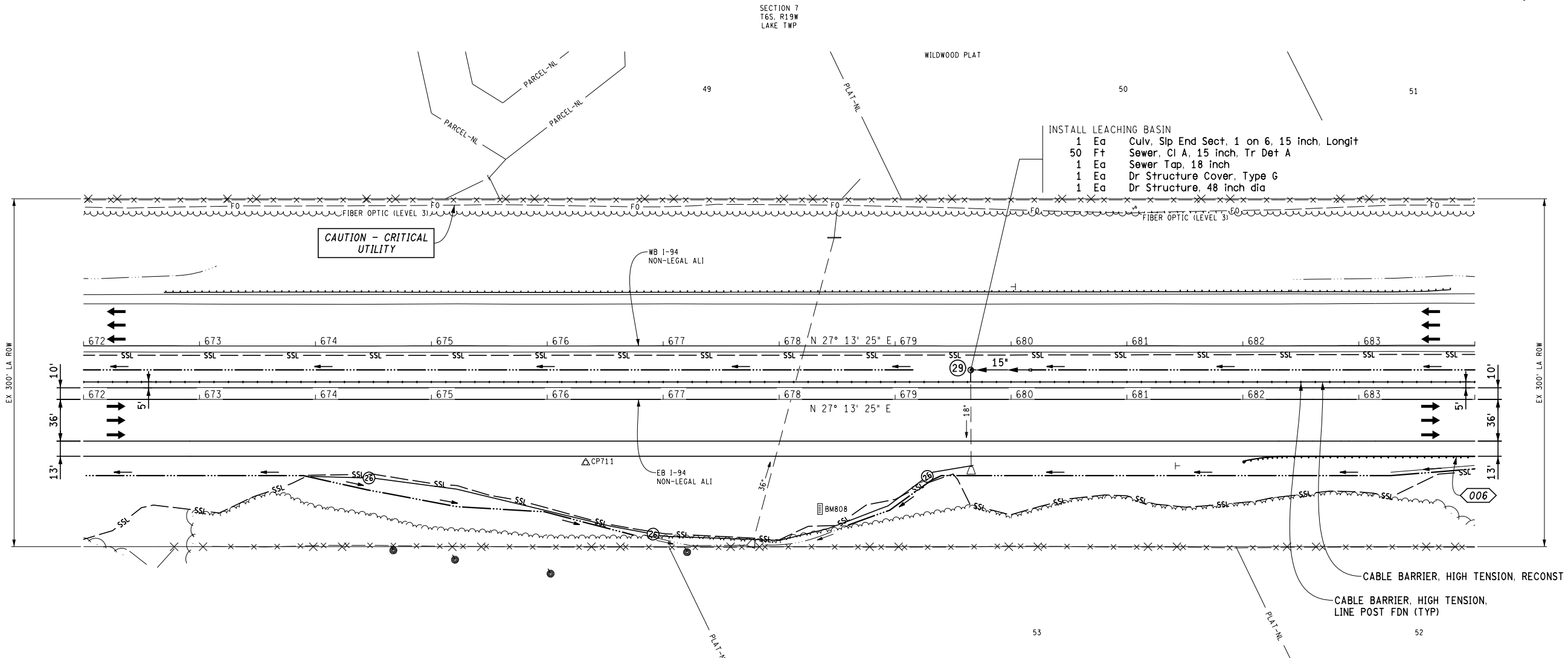
REMOVAL SHEET
STA 672+00 TO STA 684+00

DRAWING SHEET
194EB REM 008 SECT 1
65



KEY PLAN
NO SCALE

SECTION 7
T6S, R19W
LAKE TWP



- INSTALL LEACHING BASIN
- 1 Ea Culv. Slip End Sect. 1 on 6, 15 inch, Longit
 - 50 Ft Sewer, CI A, 15 inch, Tr Det A
 - 1 Ea Sewer Tap, 18 inch
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

CAUTION - CRITICAL UTILITY

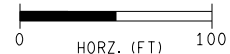
QUANTITIES THIS SHEET

JN 119672 CAT 0001		
876	Cyd	Embankment, CIP
1169	Cyd	Granular Material, CI IIAA
32	Ft	Erosion Control, Check Dam, Stone
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
11	Ea	Erosion Control, Inlet Protection, Sediment Trap
600	Ft	Erosion Control, Silt Fence
56	Ft	Permeable Runoff Structure
3128	Syd	Aggregate Base, 6 inch
274	Ton	Shoulder, CI II
1200	Ft	Underdrain, Subgrade, 10 inch, Modified
557	Ton	HMA, 3E3
372	Ton	HMA, 4E3
581	Ton	HMA, 4E30
279	Ton	HMA, 5E3
436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
1200	Ft	Cable Barrier, High Tension, Reconst
119	Ea	Cable Barrier, High Tension, Line Post Fdn
942	Syd	Mulch Blanket
1388	Syd	Mulch Blanket, High Velocity
7436	Syd	Turf Establishment, Performance
2329	Syd	Dune Grass Planting
2400	Ft	Shoulder Corrugations, Ground or Cut, HMA

WB I-94
EB I-94

WB I-94
EB I-94

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



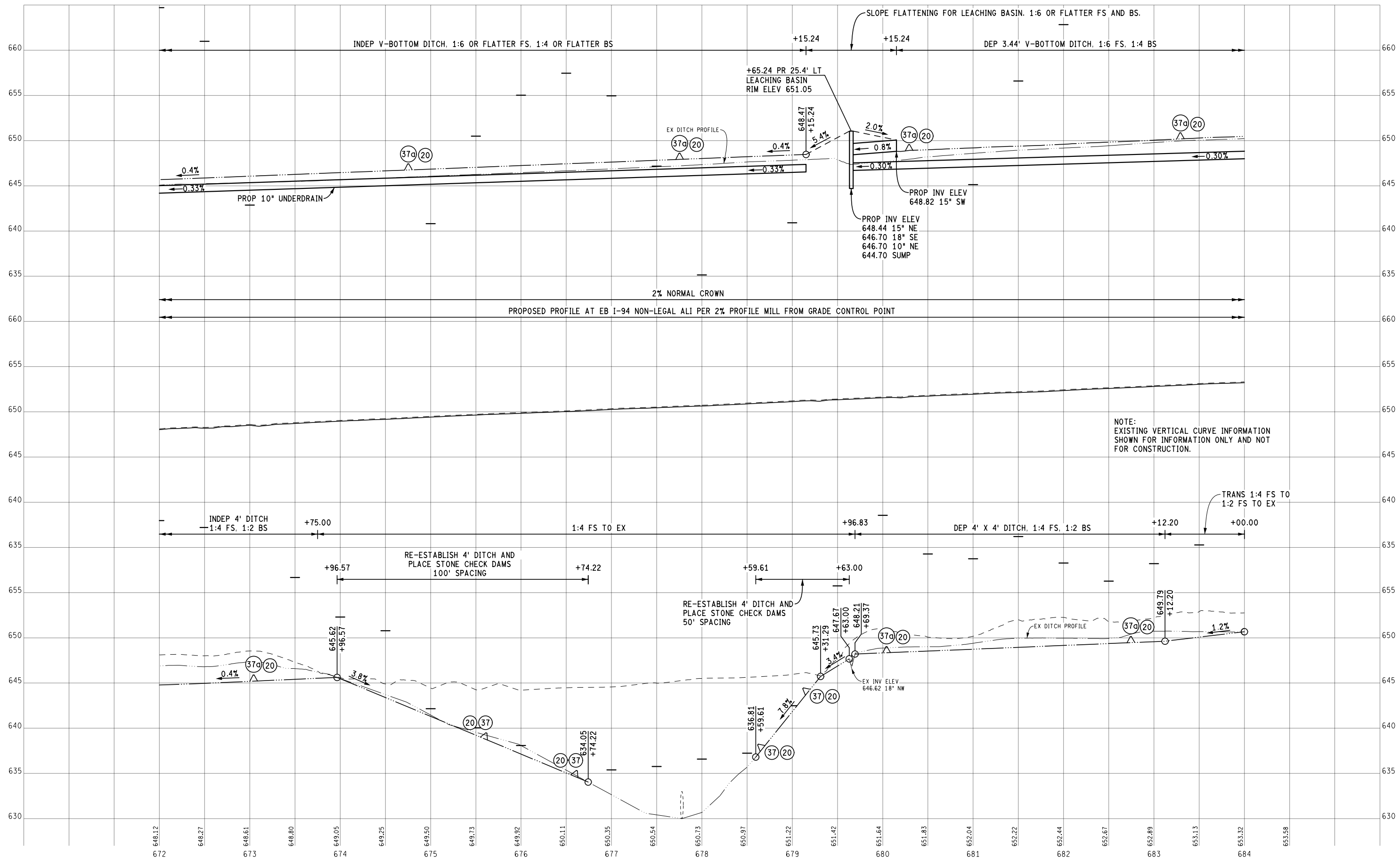
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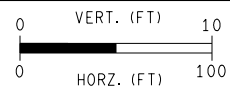
CS: 11015
JN: 119672A

CONSTRUCTION SHEET
STA 672+00 TO STA 684+00

DRAWING SHEET
194EB CON 008
SECT 1
66



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

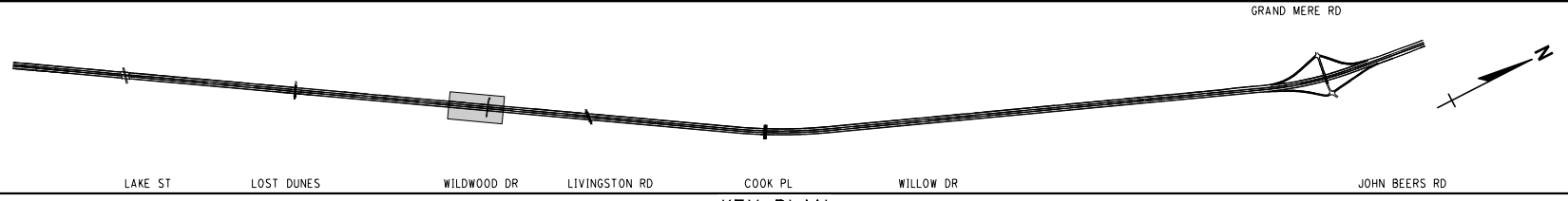


DATE: 08/03/16
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CS: 11015
 JN: 119672A

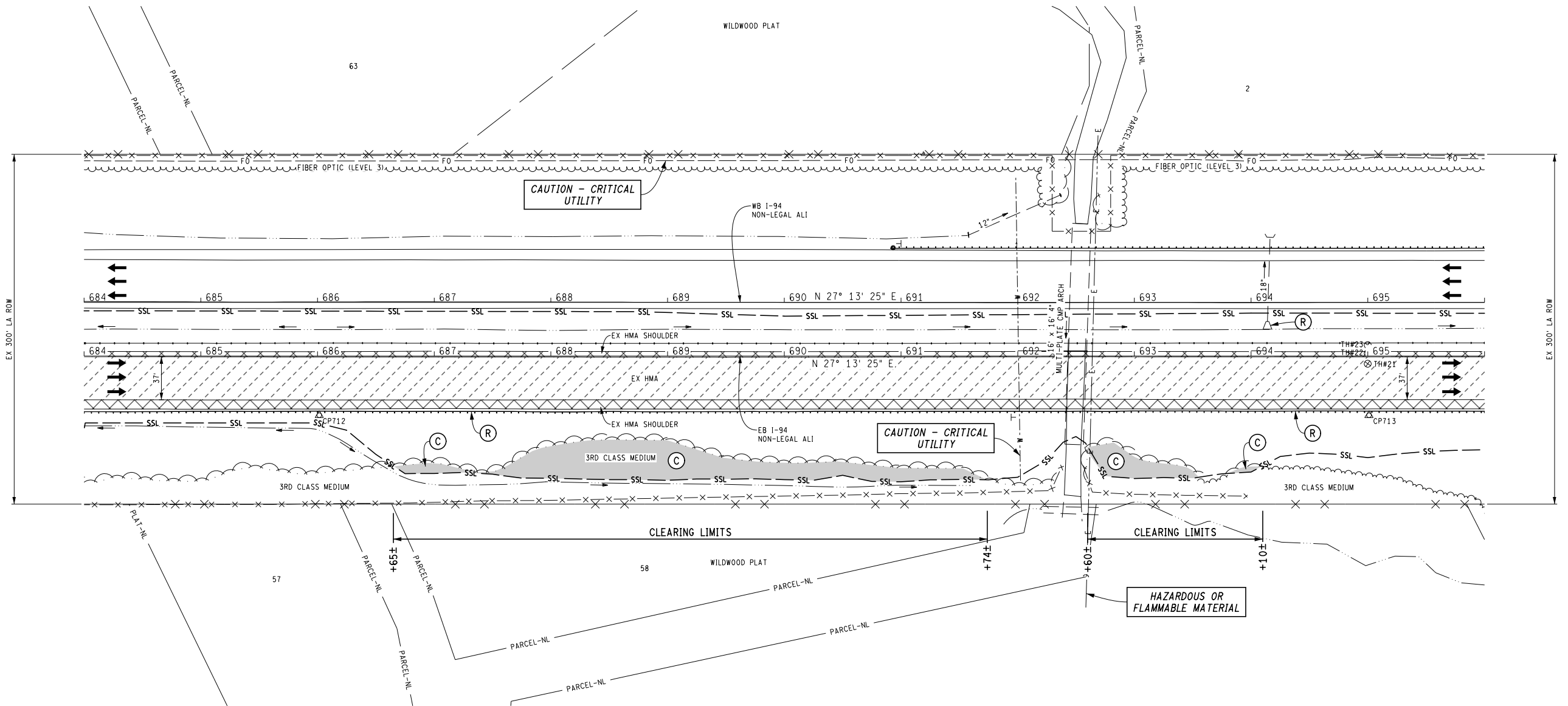
PROFILE SHEET
 STA 672+00 TO STA 684+00

DRAWING SHEET
 194EB PROF 008
 SECT 1
 67



KEY PLAN
NO SCALE

SECTION 7
T6S, R19W
LAKE TWP



SECTION 7
T6S, R19W
LAKE TWP

QUANTITIES THIS SHEET

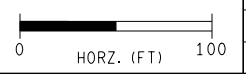
JN 119672	0.24	Acre	Clearing
CAT 0001	1	Ea	Culv. End. Rem. Less than 24 inch
	1200	Ft	Guardrail, Rem
	1692	Syd	Pavt. Rem
	1597	Cyd	Excavation, Earth
	4934	Syd	Cold Milling HMA Surface
	1200	Ft	Cable Barrier, High Tension, Salv
	119	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem

WB I-94

WB I-94

WILDWOOD DR

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



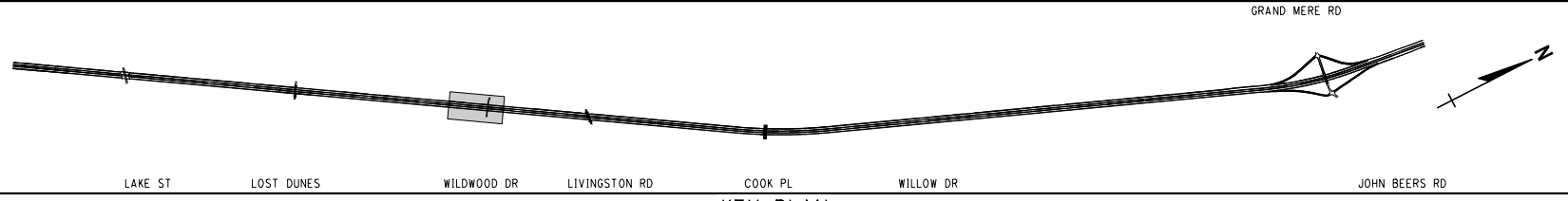
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

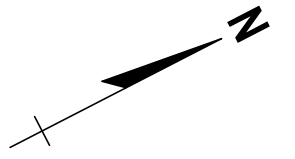
REMOVAL SHEET
STA 684+00 TO STA 696+00

DRAWING SHEET
194EB REM 009 SECT 1 68

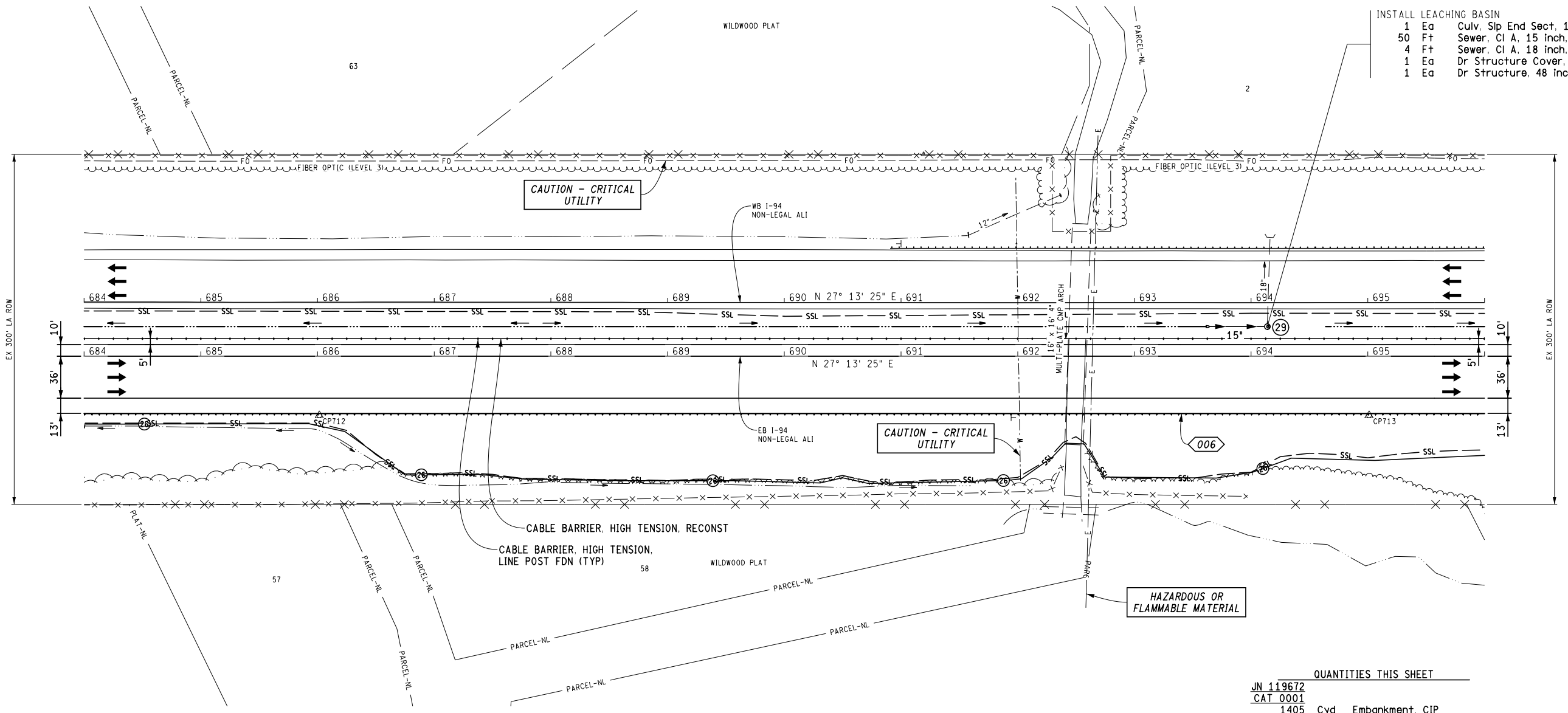


KEY PLAN
NO SCALE

WILDWOOD DR



SECTION 7
T6S, R19W
LAKE TWP



- INSTALL LEACHING BASIN
- 1 Ea Culv, Slp End Sect, 1 on 6, 15 inch, Longit
 - 50 Ft Sewer, CI A, 15 inch, Tr Det A
 - 4 Ft Sewer, CI A, 18 inch, Tr Det A
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

WB
I-94

WB
I-94

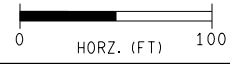
QUANTITIES THIS SHEET

JN 119672		
CAT 0001		
1405	Cyd	Embankment, CIP
1757	Cyd	Granular Material, CI IIAA
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
2	Ea	Erosion Control, Inlet Protection, Sediment Trap
1200	Ft	Erosion Control, Silt Fence
16	Ft	Permeable Runoff Structure
3128	Syd	Aggregate Base, 6 inch
260	Ton	Shoulder, CI II
1200	Ft	Underdrain, Subgrade, 10 inch, Modified
557	Ton	HMA, 3E3
372	Ton	HMA, 4E3
581	Ton	HMA, 4E30
279	Ton	HMA, 5E3
436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
1200	Ft	Cable Barrier, High Tension, Reconst
119	Ea	Cable Barrier, High Tension, Line Post Fdn
8531	Syd	Turf Establishment, Performance
2400	Ft	Shoulder Corrugations, Ground or Cut, HMA

SECTION 7
T6S, R19W
LAKE TWP

WILDWOOD DR

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



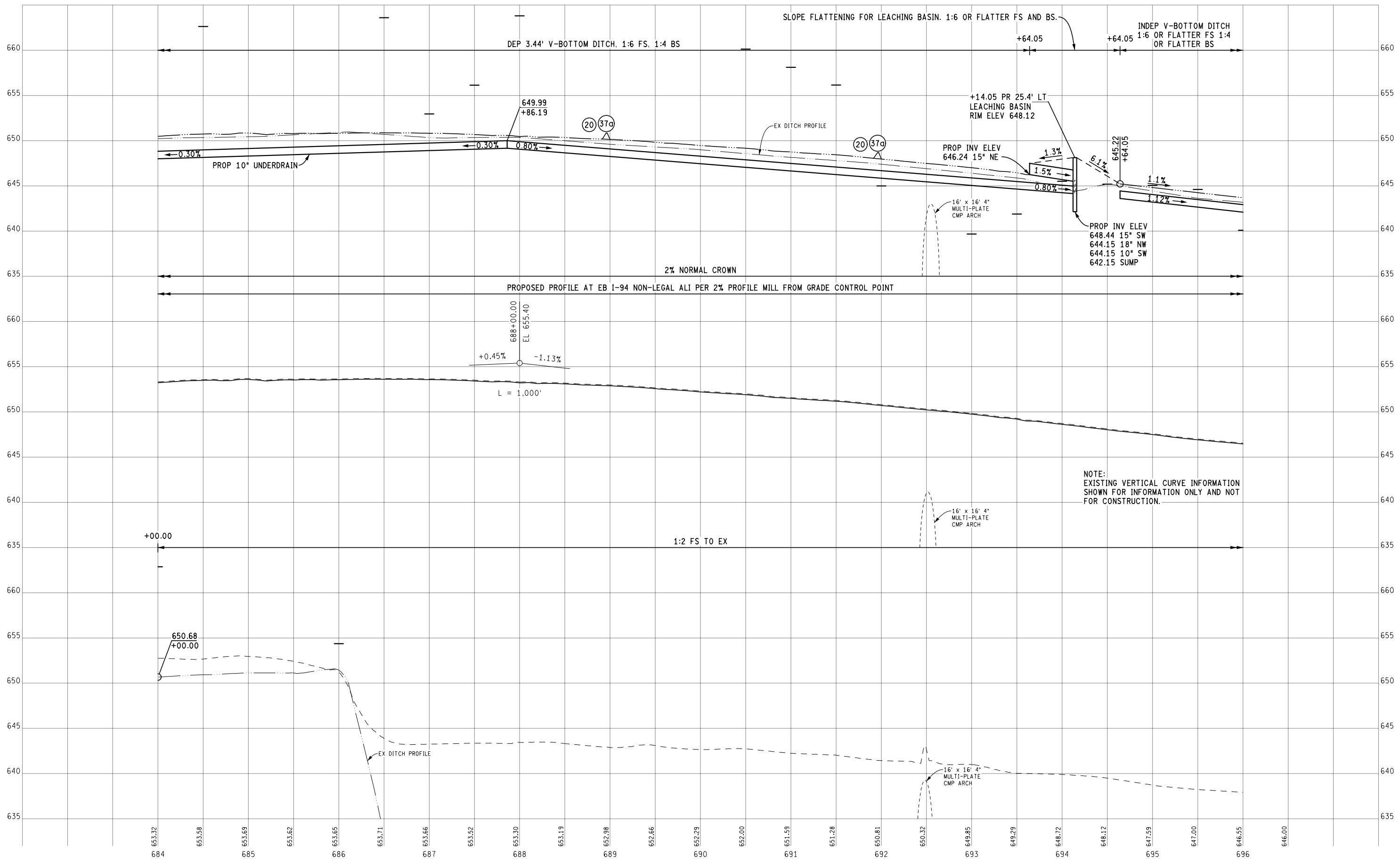
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DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

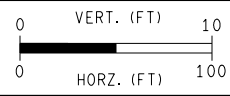
CONSTRUCTION SHEET
STA 684+00 TO STA 696+00

DRAWING SHEET
194EB CON 009 SECT 1
69



EX GROUND PROFILE 23' LT
 EX GROUND POINTS 173' LT
 PROP LT DITCH PROFILE
 EX GROUND PROFILE AT EB I-94 NON-LEGAL ALI
 APPROXIMATE PROFILE AT EB I-94 NON-LEGAL ALI
 EX GROUND PROFILE 66' RT
 EX GROUND POINTS 123' RT
 PROP RT DITCH PROFILE

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

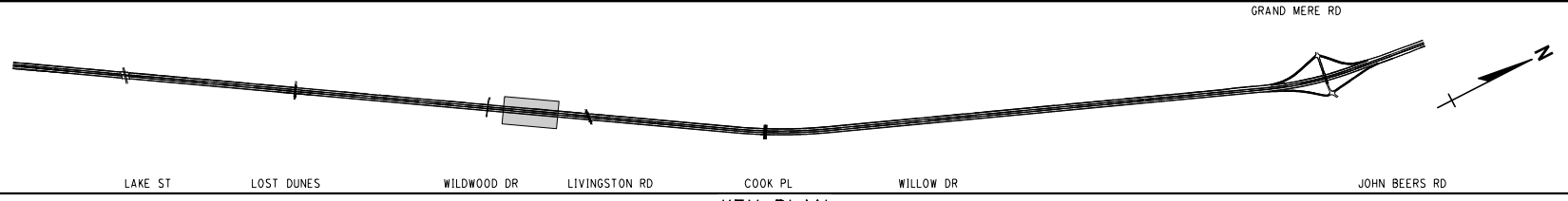


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 DESIGN UNIT: WILCOX
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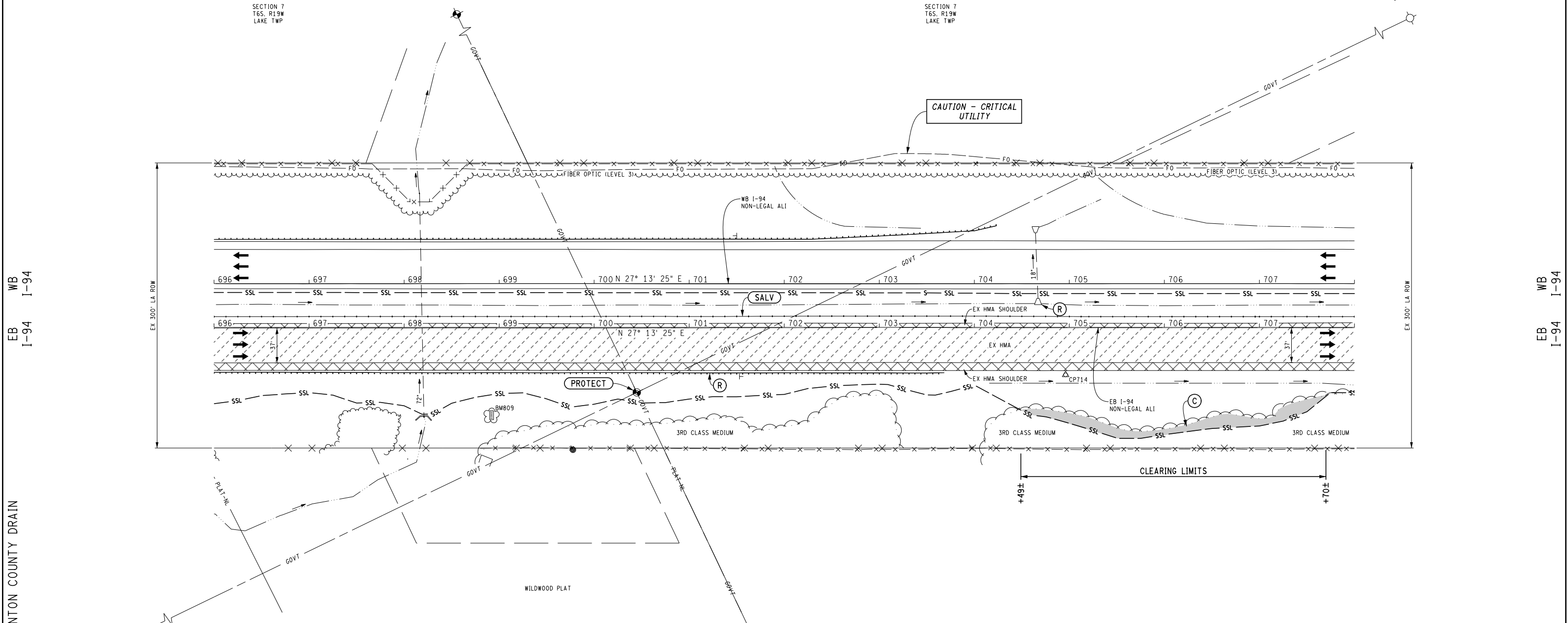
CS: 11015
 JN: 119672A

PROFILE SHEET
 STA 684+00 TO STA 696+00

DRAWING SHEET
 194EB PROF 009
 SECT 1
70



KEY PLAN
NO SCALE
THORNTON COUNTY DRAIN



WB I-94
EB I-94

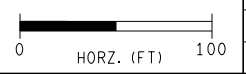
WB I-94
EB I-94

THORNTON COUNTY DRAIN

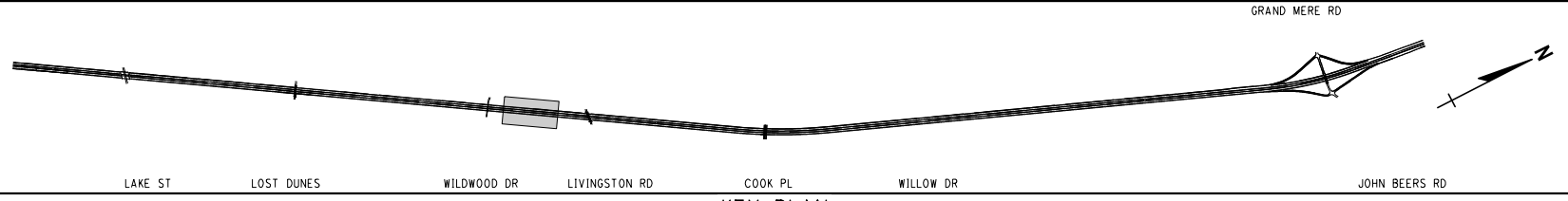
QUANTITIES THIS SHEET

JN 119672	0.08	Acre	Clearing
CAT 0001	1	Ea	Culv. End. Rem. Less than 24 inch
	769	Ft	Guardrail, Rem
	1755	Syd	Pavt. Rem
	3824	Cyd	Excavation, Earth
	4934	Syd	Cold Milling HMA Surface
	1200	Ft	Cable Barrier, High Tension, Salv
	119	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem

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



DATE: 08/03/16	CS: 11015	DRAWING SHEET	194EB REM 010	SECT 1 71
DESIGN UNIT: WILCOX	JN: 119672A			
TSC: KALAMAZOO	FILE: 119672_194EB_REM_010.dgn	REMOVAL SHEET STA 696+00 TO STA 708+00		



KEY PLAN
NO SCALE
THORNTON COUNTY DRAIN

SECTION 7
T6S, R19W
LAKE TWP

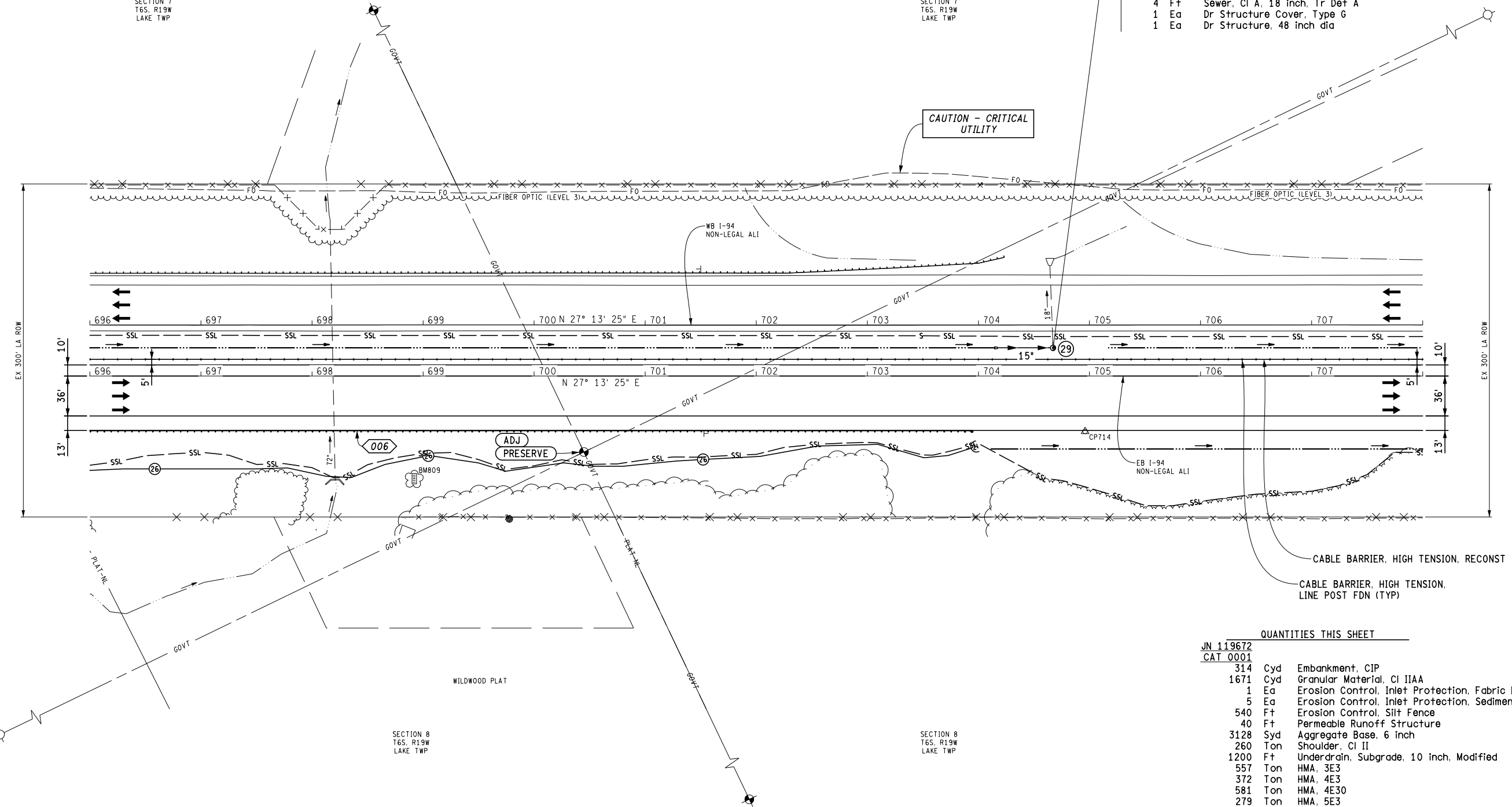
SECTION 7
T6S, R19W
LAKE TWP

- INSTALL LEACHING BASIN
- 1 Ea Culv, Slip End Sect, 1 on 6, 15 inch, Longit
 - 50 Ft Sewer, CI A, 15 inch, Tr Det A
 - 4 Ft Sewer, CI A, 18 inch, Tr Det A
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

WB
I-94

WB
I-94

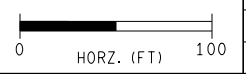
THORNTON COUNTY DRAIN



QUANTITIES THIS SHEET

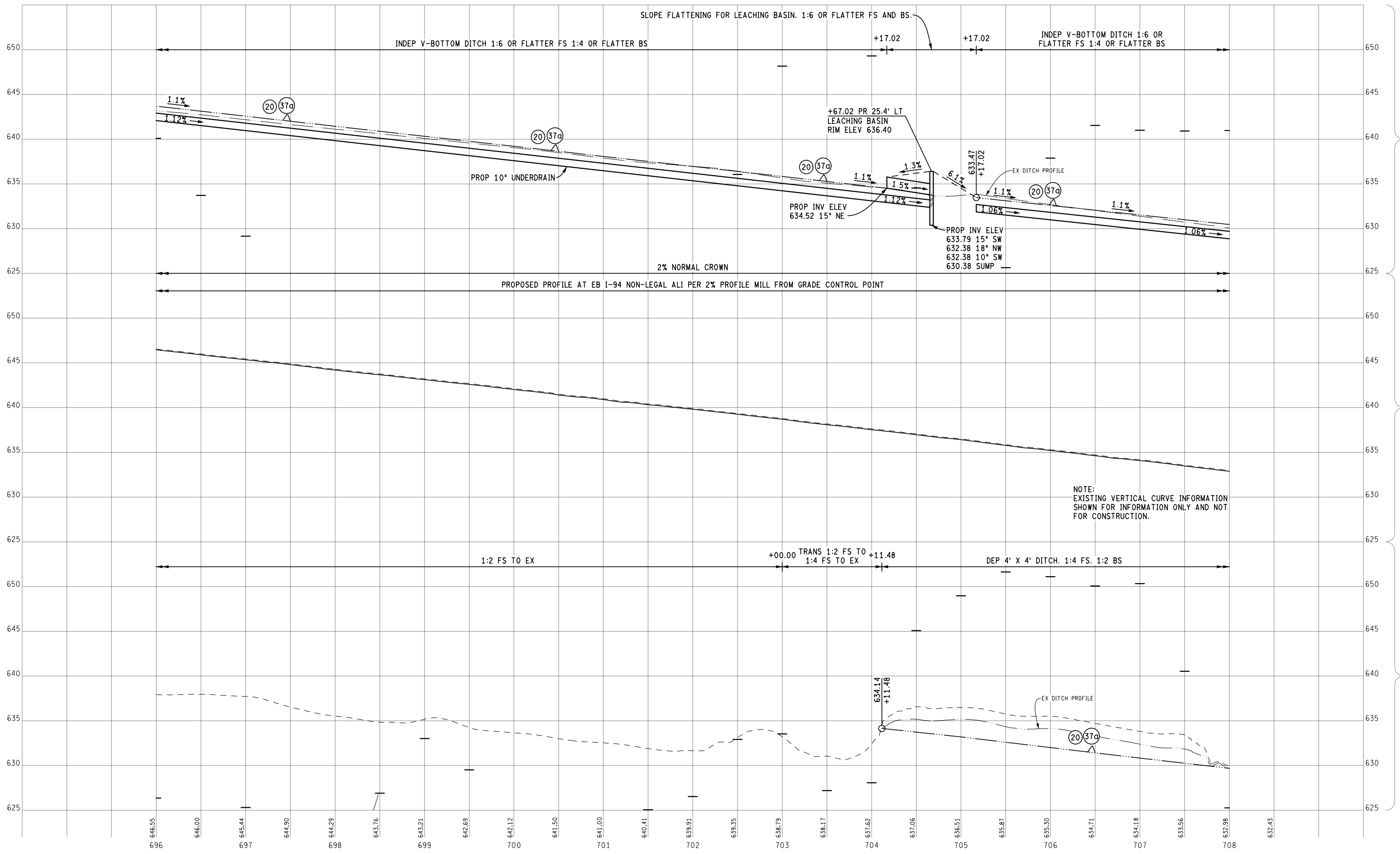
QTY	UNIT	DESCRIPTION
JN 119672		
CAT 0001		
314	Cyd	Embankment, CIP
1671	Cyd	Granular Material, CI IIAA
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
5	Ea	Erosion Control, Inlet Protection, Sediment Trap
540	Ft	Erosion Control, Silt Fence
40	Ft	Permeable Runoff Structure
3128	Syd	Aggregate Base, 6 inch
260	Ton	Shoulder, CI II
1200	Ft	Underdrain, Subgrade, 10 inch, Modified
557	Ton	HMA, 3E3
372	Ton	HMA, 4E3
581	Ton	HMA, 4E30
279	Ton	HMA, 5E3
436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
1200	Ft	Cable Barrier, High Tension, Reconst
119	Ea	Cable Barrier, High Tension, Line Post Fdn
1327	Syd	Mulch Blanket, High Velocity
5923	Syd	Turf Establishment, Performance
1327	Syd	Dune Grass Planting
1	Ea	Monument Box Adjust
1	Ea	Monument Preservation
2400	Ft	Shoulder Corrugations, Ground or Cut, HMA

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



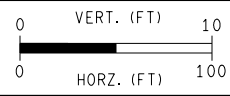
DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
TSC: KALAMAZOO	FILE: 119672_194EB_CON_010.dgn

CONSTRUCTION SHEET		DRAWING	SHEET
STA 696+00 TO STA 708+00		194EB	SECT 1
		CON	72
		010	



EX GROUND PROFILE 23' LT
 EX GROUND POINTS 173' LT
 PROP LT DITCH PROFILE
 EX GROUND PROFILE AT EB I-94 NON-LEGAL ALI
 APPROXIMATE PROFILE AT EB I-94 NON-LEGAL ALI
 EX GROUND PROFILE 66' RT
 EX GROUND POINTS 123' RT
 PROP RT DITCH PROFILE

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

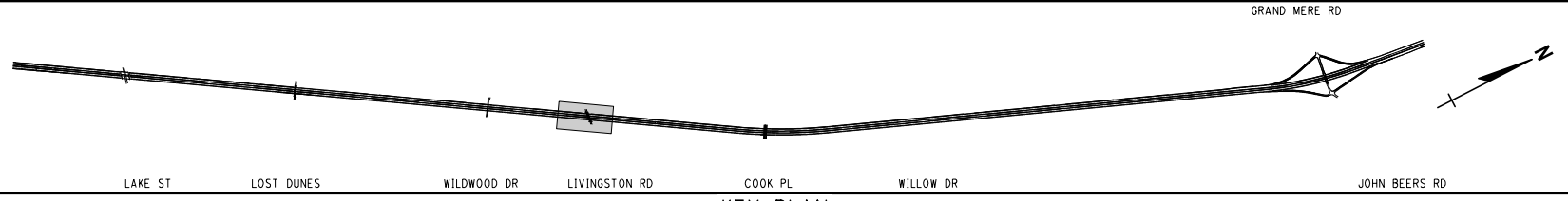


DATE: 08/03/16
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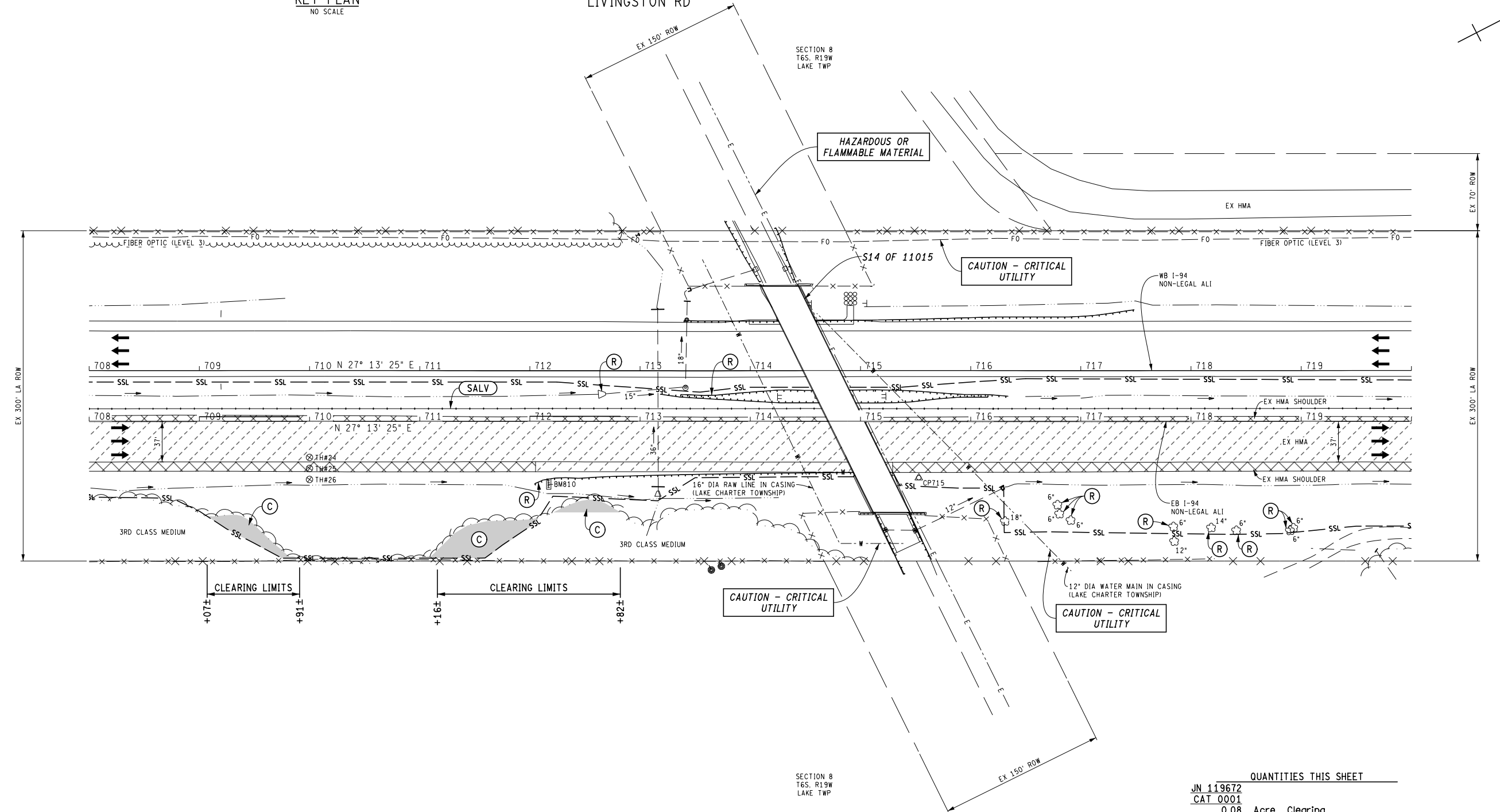
PROFILE SHEET
 STA 696+00 TO STA 708+00

DRAWING SHEET
 194EB PROF 010
 SECT 1
73



KEY PLAN
NO SCALE

LIVINGSTON RD



WB I-94
EB I-94

WB I-94
EB I-94

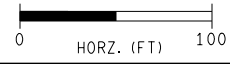
THORNTON DR

QUANTITIES THIS SHEET

JN 119672	0.08	Acre	Clearing
CAT 0001	9	Ea	Tree, Rem, 6 inch to 18 inch
	1	Ea	Culv. End, Rem, Less than 24 inch
	593	Ft	Guardrail, Rem
	1531	Syd	Pavt, Rem
	6827	Cyd	Excavation, Earth
	5258	Syd	Cold Milling HMA Surface
	1200	Ft	Cable Barrier, High Tension, Salv
	119	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem

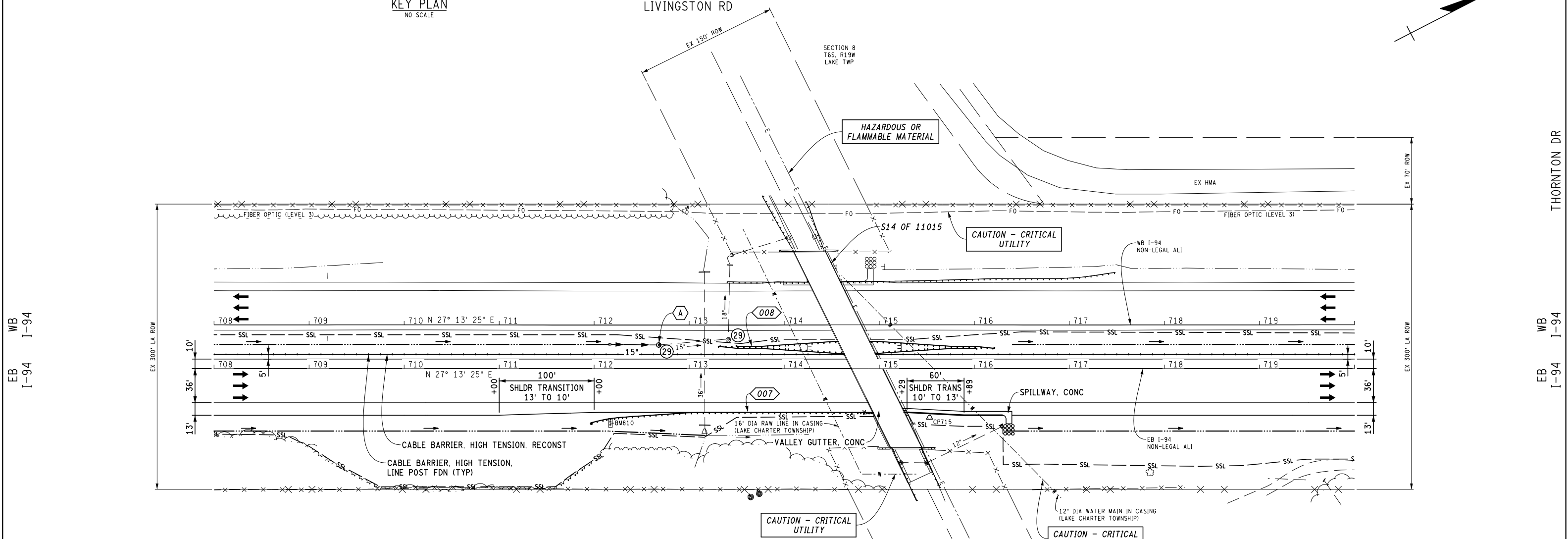
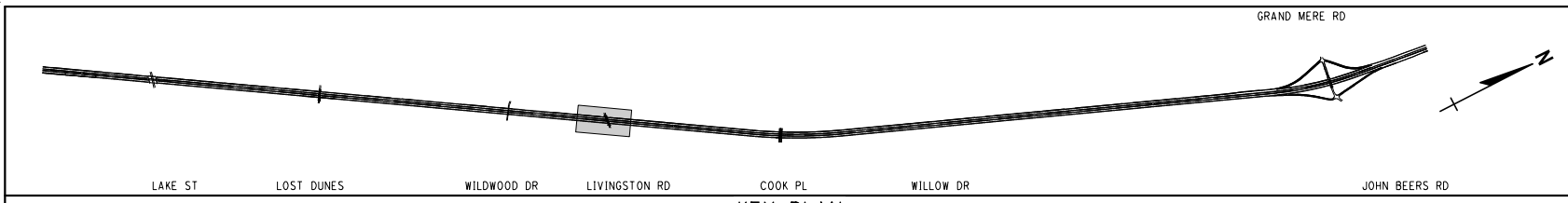
LIVINGSTON RD

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



DATE: 08/03/16	CS: 11015	REMOVAL SHEET	DRAWING	SHEET
DESIGN UNIT: WILCOX	JN: 119672A	STA 708+00 TO STA 720+00	194EB	SECT 1
TSC: KALAMAZOO			011	74

FILE: 119672_194EB_REM_011.dgn

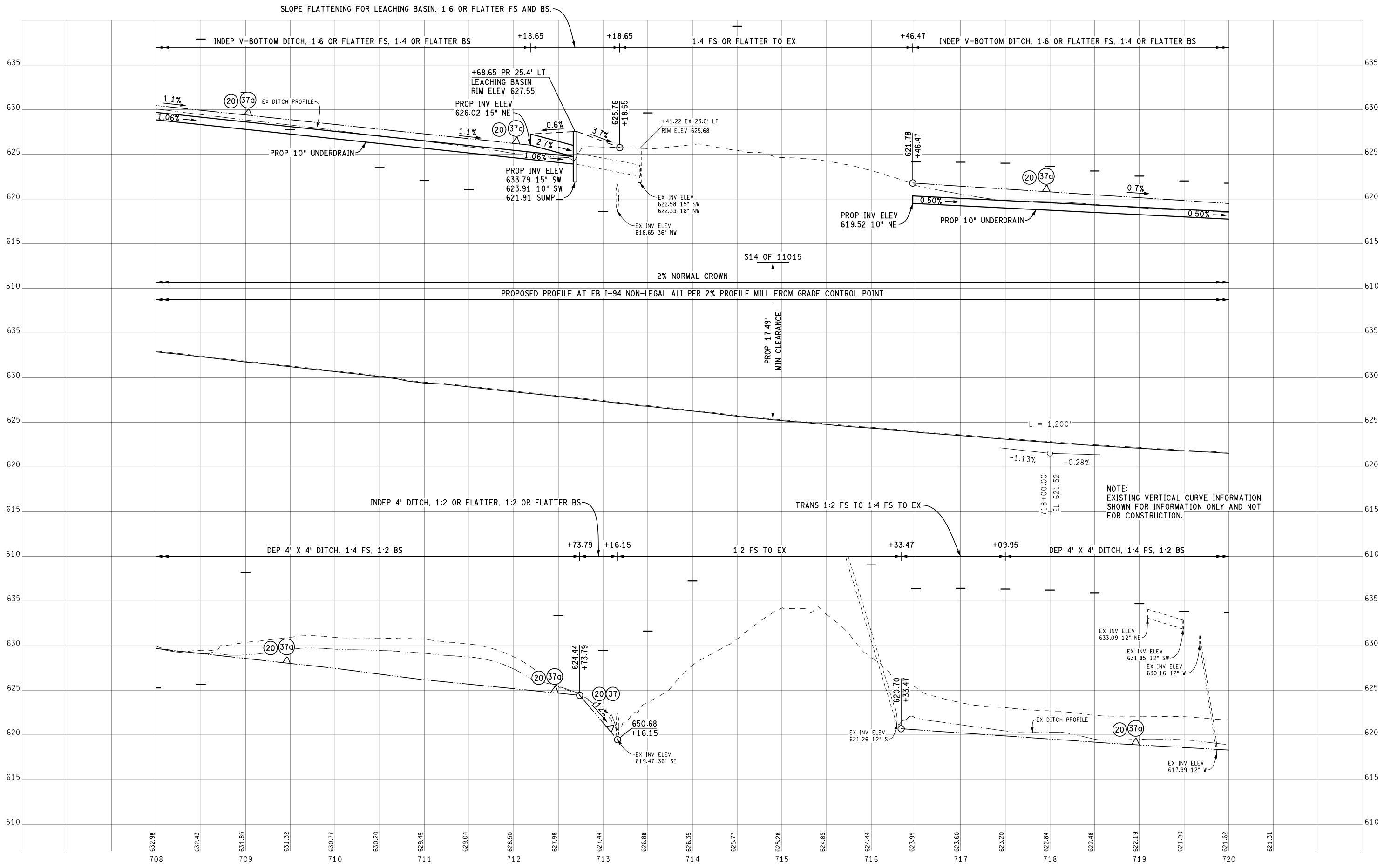


- INSTALL LEACHING BASIN
- 1 Ea Culv, Slip End Sect, 1 on 6, 15 inch, Longit
 - 50 Ft Sewer, CI A, 15 inch, Tr Det A
 - 1 Ea Sewer Tap, 15 inch
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

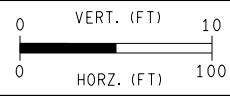
QUANTITIES THIS SHEET

QTY	UNIT	DESCRIPTION
JN 119672		
CAT 0001		
130	Cyd	Embankment, CIP
1146	Cyd	Granular Material, CI IIAA
8	Ft	Erosion Control, Check Dam, Stone
2	Ea	Erosion Control, Inlet Protection, Fabric Drop
7	Ea	Erosion Control, Inlet Protection, Sediment Trap
48	Ft	Permeable Runoff Structure
2586	Syd	Aggregate Base, 6 inch
322	Ton	Shoulder, CI II
470	Ft	Underdrain, Subgrade, 10 inch, Modified
35	Ft	Underdrain, Subbase, 6 inch
10	Ft	Underdrain Outlet, 6 inch
3	Ea	Underdrain, Outlet Ending, 6 inch
400	Ton	HMA, 3E3
267	Ton	HMA, 4E3
581	Ton	HMA, 4E30
200	Ton	HMA, 5E3
436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
136	Ft	Valley Gutter, Conc
5	Ft	Spillway, Conc
1	Ea	Shoulder Gutter, Conc, Det 2, Modified
1200	Ft	Cable Barrier, High Tension, Reconst
119	Ea	Cable Barrier, High Tension, Line Post Fdn
4	Syd	Riprap, Plain
3103	Syd	Mulch Blanket, High Velocity
4605	Syd	Turf Establishment, Performance
3103	Syd	Dune Grass Planting
2400	Ft	Shoulder Corrugations, Ground or Cut, HMA

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								DATE: 08/03/16		CS: 11015		CONSTRUCTION SHEET		DRAWING SHEET	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	DESIGN UNIT: WILCOX		JN: 119672A		STA 708+00 TO STA 720+00		194EB	SECT 1
								TSC: KALAMAZOO						CON	75
								FILE: 119672_194EB_CON_011.dgn						011	



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



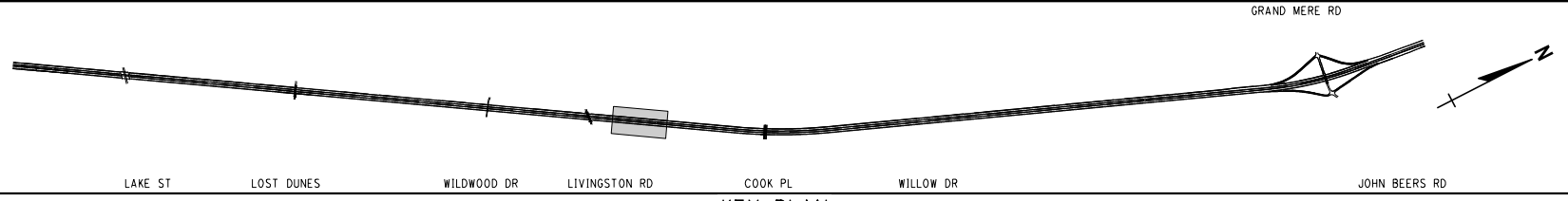
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 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO

CS: 11015
 JN: 119672A

PROFILE SHEET
 STA 708+00 TO STA 720+00

DRAWING SHEET
 194EB PROF 011
 76

FILE: 119672_194EB_PROF_011.dgn



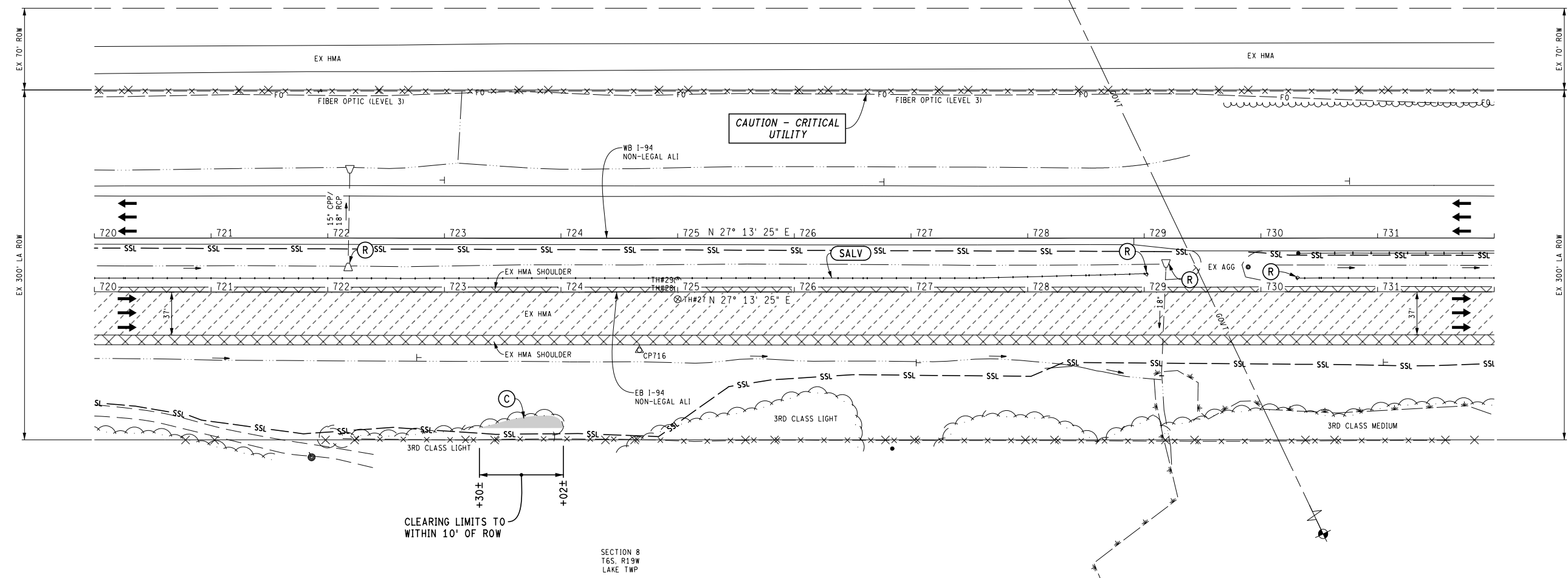
KEY PLAN
NO SCALE

SECTION 8
T6S. R19W
LAKE TWP

SECTION 5
T6S. R19W
LAKE TWP

THORNTON DR
WB
I-94

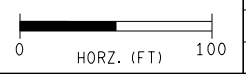
THORNTON DR
WB
I-94



QUANTITIES THIS SHEET

JN 119672		
CAT 0001		
0.02	Acre	Clearing
2	Ea	Culv. End. Rem. Less than 24 inch
1712	Syd	Pavt. Rem
4349	Cyd	Excavation, Earth
4934	Syd	Cold Milling HMA Surface
1073	Ft	Cable Barrier, High Tension, Salv
188	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem
2	Ea	Cable Barrier, High Tension, End Term Fdn, Rem

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



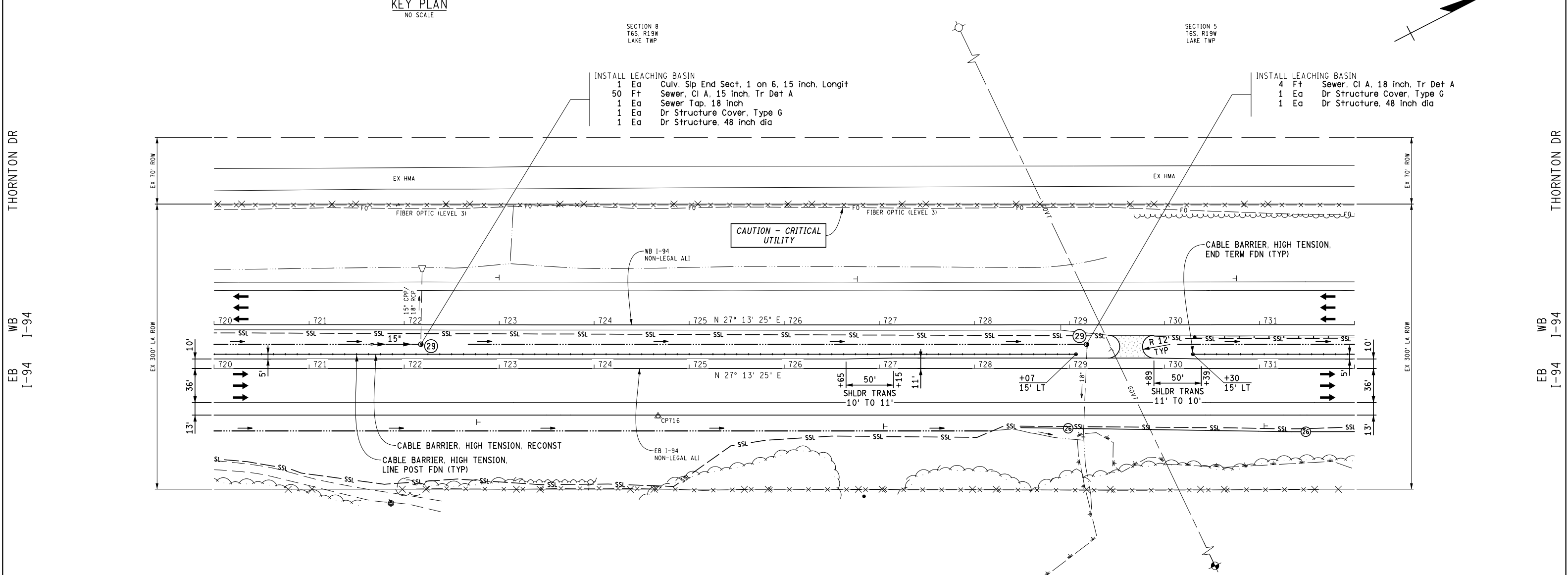
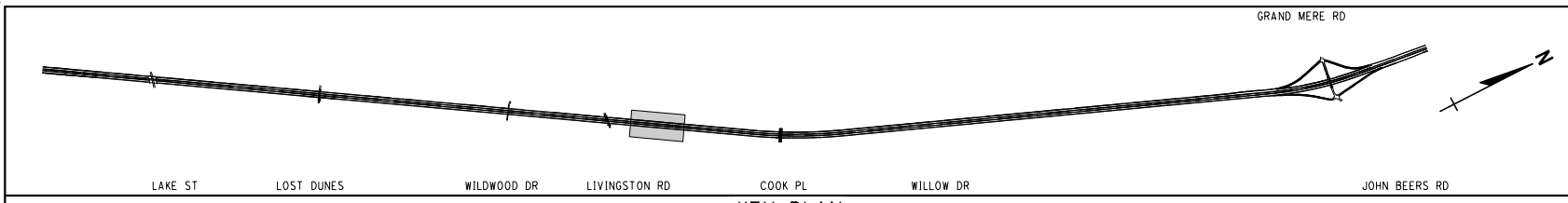
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

REMOVAL SHEET
STA 720+00 TO STA 732+00

DRAWING SHEET
194EB SECT 1
012 77



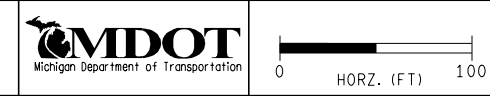
- SECTION 8
T6S. R19W
LAKE TWP
- INSTALL LEACHING BASIN
- 1 Ea Culv. Slip End Sect. 1 on 6, 15 inch. Longit
 - 50 Ft Sewer, CI A, 15 inch, Tr Det A
 - 1 Ea Sewer Tap, 18 inch
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

- SECTION 5
T6S. R19W
LAKE TWP
- INSTALL LEACHING BASIN
- 4 Ft Sewer, CI A, 18 inch, Tr Det A
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

QUANTITIES THIS SHEET

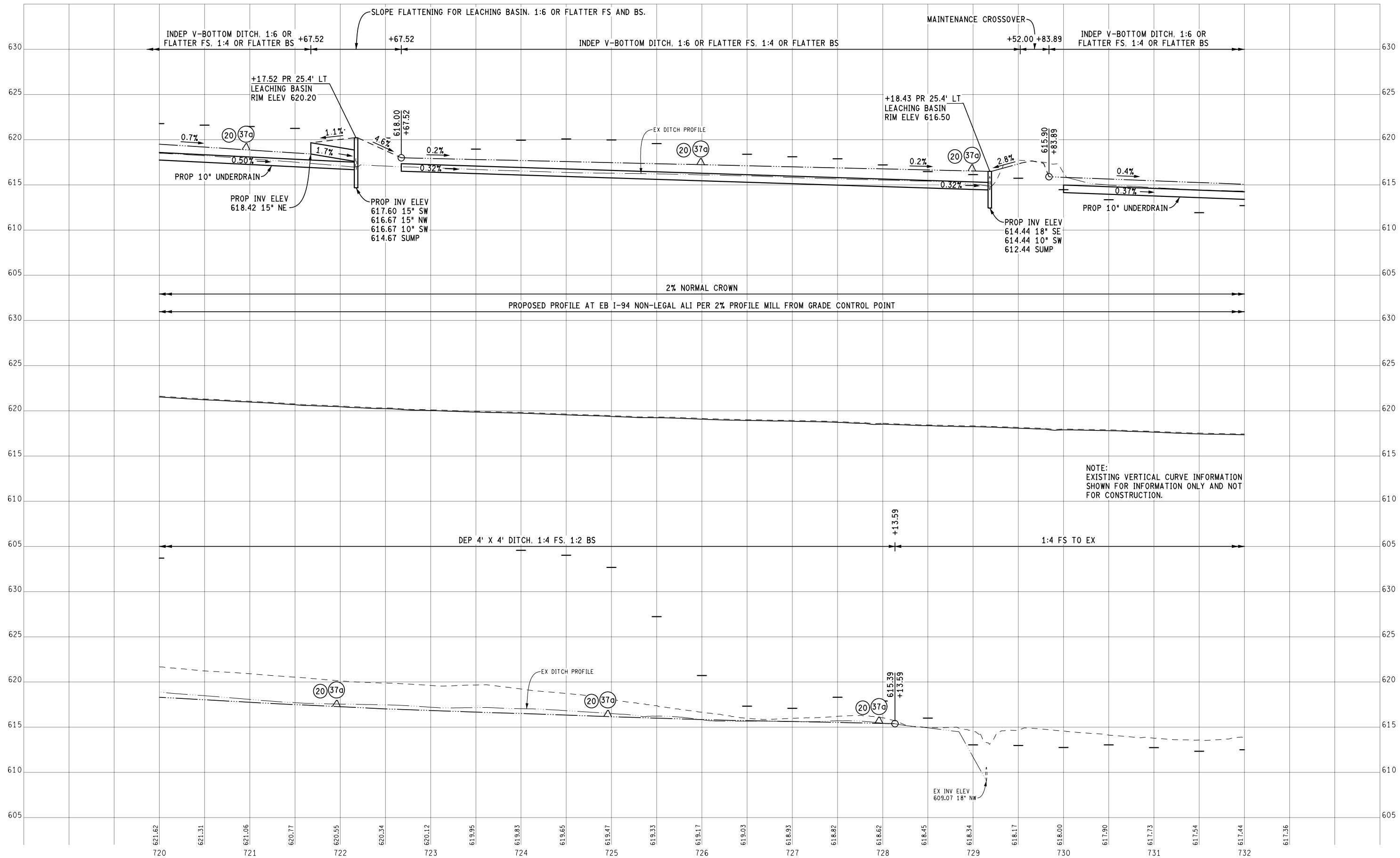
QTY	UNIT	DESCRIPTION
JN 119672		
CAT 0001		
183	Cyd	Embankment, CIP
1504	Cyd	Granular Material, CI IIAA
2	Ea	Erosion Control, Inlet Protection, Fabric Drop
6	Ea	Erosion Control, Inlet Protection, Sediment Trap
370	Ft	Erosion Control, Silt Fence
48	Ft	Permeable Runoff Structure
51	Cyd	Subbase, CIP
3875	Syd	Aggregate Base, 6 inch
288	Ton	Shoulder, CI II
361	Ft	Underdrain, Subgrade, 10 inch, Modified
563	Ton	HMA, 3E3
376	Ton	HMA, 4E3
581	Ton	HMA, 4E30
282	Ton	HMA, 5E3
31	Ton	HMA Approach
436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
1075	Ft	Cable Barrier, High Tension, Reconstr
110	Ea	Cable Barrier, High Tension, Line Post Fdn
2	Ea	Cable Barrier, High Tension, End Term Fdn
2984	Syd	Mulch Blanket, High Velocity
4924	Syd	Turf Establishment, Performance
2984	Syd	Dune Grass Planting
2400	Ft	Shoulder Corrugations, Ground or Cut, HMA

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

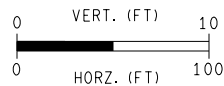


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DESIGN UNIT: WILCOX	JN: 119672A
TSC: KALAMAZOO	FILE: 119672_194EB_CON_012.dgn

CONSTRUCTION SHEET		DRAWING	SHEET
STA 720+00 TO STA 732+00		194EB	SECT 1
		CON	78
		012	



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

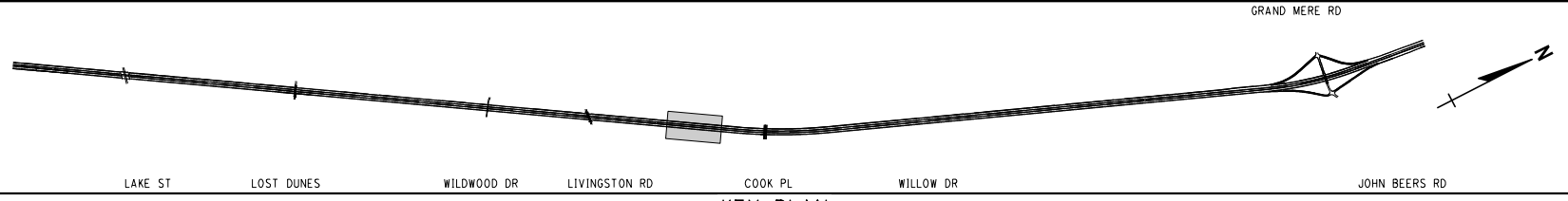


DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO

CS: 11015
 JN: 119672A

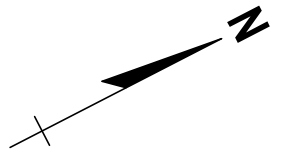
PROFILE SHEET
 STA 720+00 TO STA 732+00

DRAWING SHEET
 194EB PROF 012
 SECT 1
 79



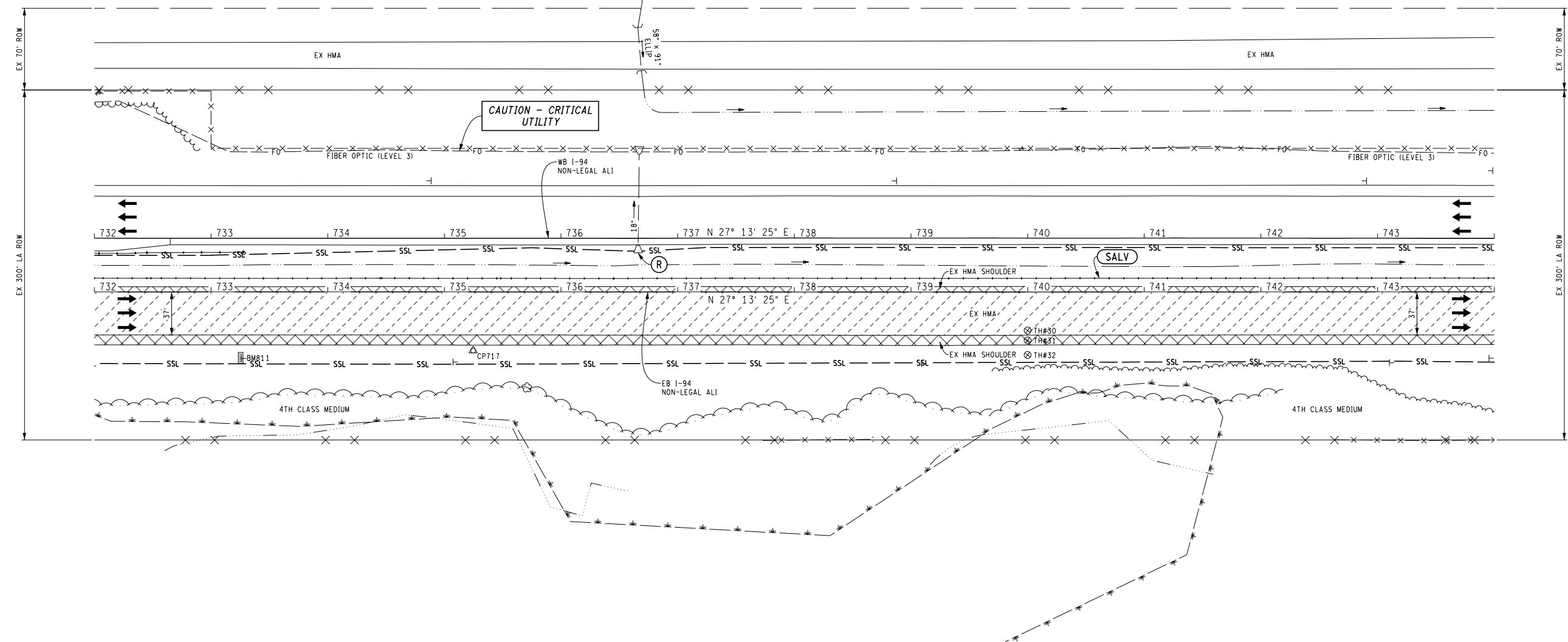
KEY PLAN
NO SCALE
THORNTON COUNTY DRAIN

SECTION 5
T6S, R19W
LAKE TWP



THORNTON DR

WB I-94
EB I-94



THORNTON DR

WB I-94
EB I-94

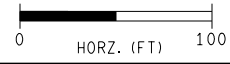
SECTION 5
T6S, R19W
LAKE TWP

QUANTITIES THIS SHEET

JN 119672
CAT 0001

1	Ea	Culv. End, Rem, Less than 24 inch
1790	Syd	Pavt. Rem
1657	Cyd	Excavation, Earth
4934	Syd	Cold Milling HMA Surface
1200	Ft	Cable Barrier, High Tension, Salv
119	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem

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



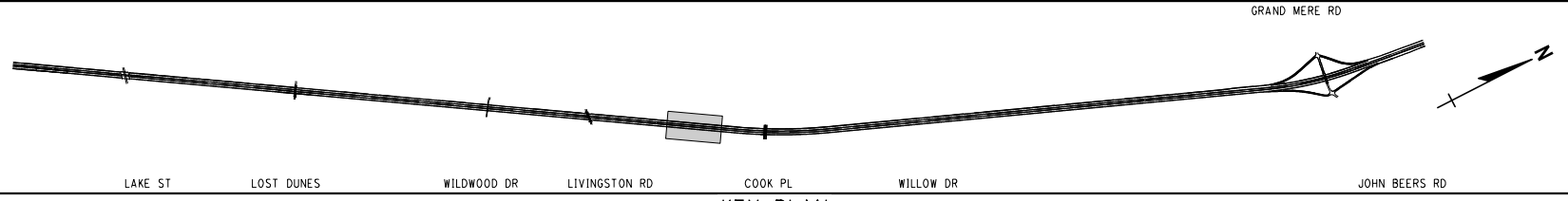
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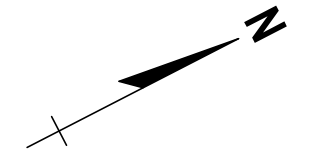
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REMOVAL SHEET
STA 732+00 TO STA 744+00

DRAWING SHEET
194EB REM 013
SECT 1 80

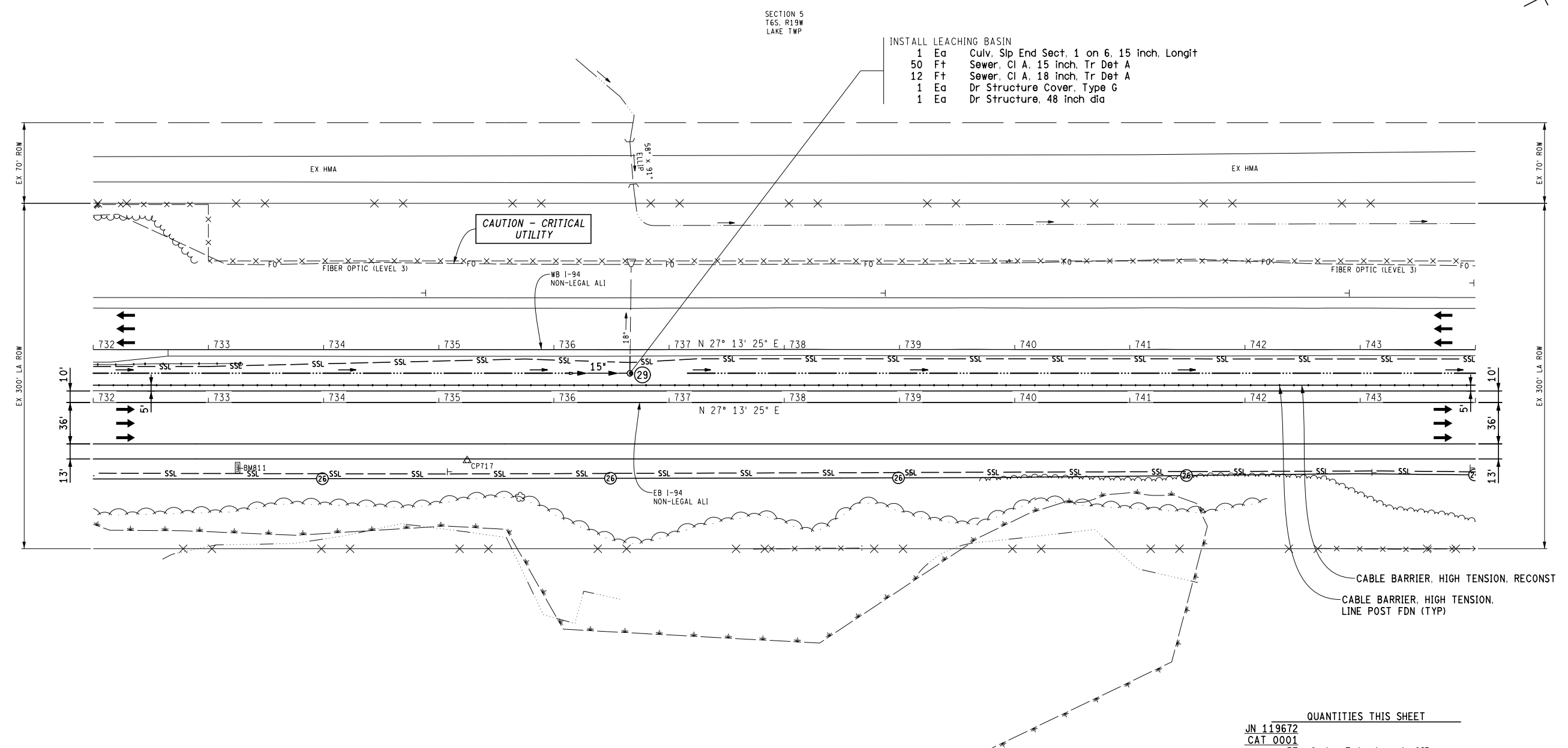


KEY PLAN
NO SCALE
THORNTON COUNTY DRAIN



THORNTON DR
WB I-94
EB I-94

THORNTON DR
WB I-94
EB I-94



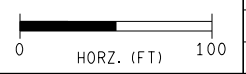
- INSTALL LEACHING BASIN
- 1 Ea Culv, Slip End Sect. 1 on 6, 15 inch, Longit
 - 50 Ft Sewer, CI A, 15 inch, Tr Det A
 - 12 Ft Sewer, CI A, 18 inch, Tr Det A
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

QUANTITIES THIS SHEET

JN 119672		
CAT 0001		
57	Cyd	Embankment, CIP
1537	Cyd	Granular Material, CI IIAA
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
3	Ea	Erosion Control, Inlet Protection, Sediment Trap
1200	Ft	Erosion Control, Silt Fence
24	Ft	Permeable Runoff Structure
3128	Syd	Aggregate Base, 6 inch
276	Ton	Shoulder, CI II
1130	Ft	Underdrain, Subgrade, 10 inch, Modified
557	Ton	HMA, 3E3
372	Ton	HMA, 4E3
581	Ton	HMA, 4E30
279	Ton	HMA, 5E3
436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
1200	Ft	Cable Barrier, High Tension, Reconst
119	Ea	Cable Barrier, High Tension, Line Post Fdn
4579	Syd	Turf Establishment, Performance
2400	Ft	Shoulder Corrugations, Ground or Cut, HMA

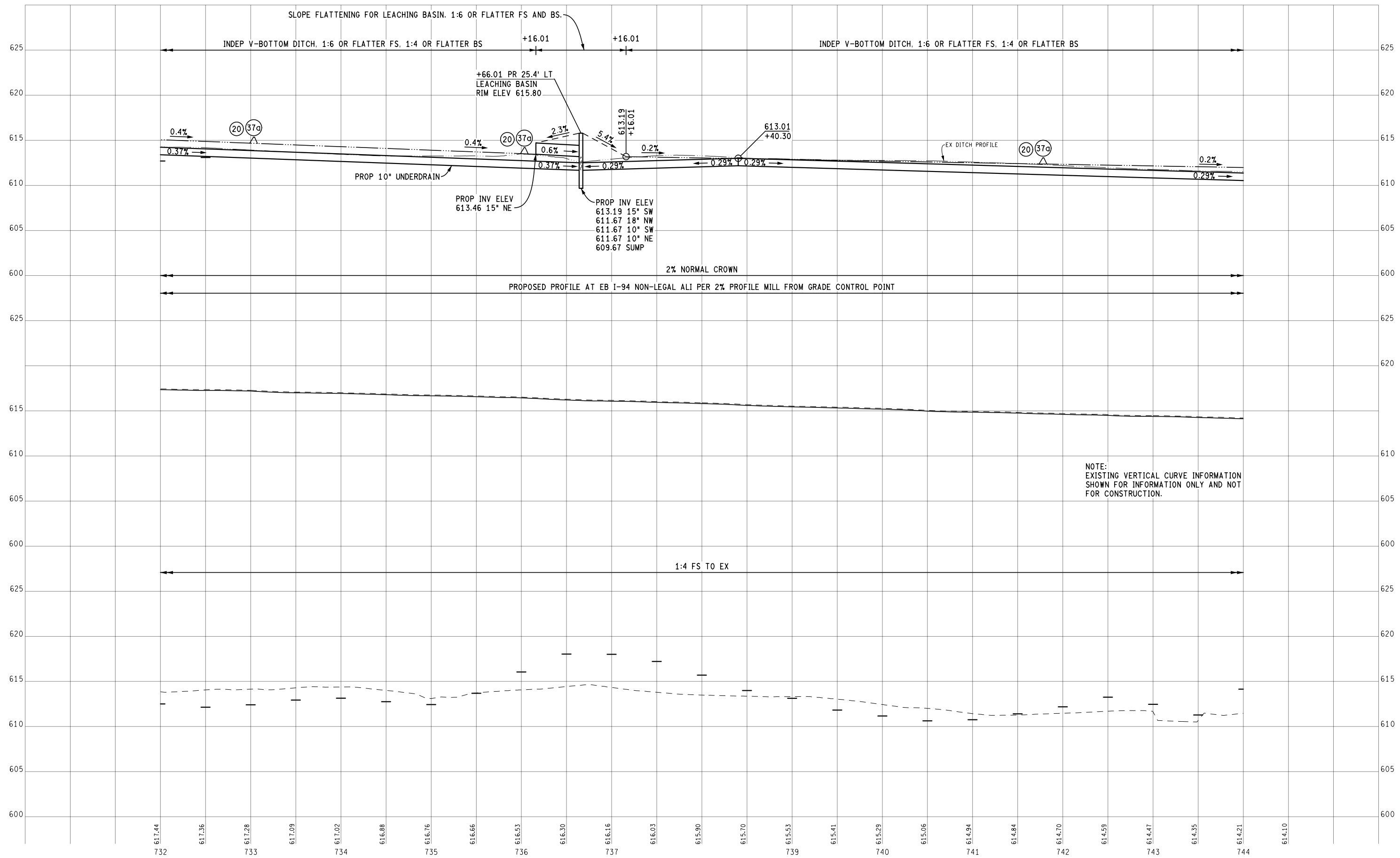
SECTION 5
T6S, R19W
LAKE TWP

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

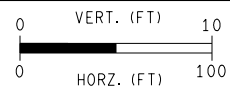


FILE: 119672_I94EB_CON_013.dgn	DATE: 08/03/16	CS: 11015
TSC: KALAMAZOO	DESIGN UNIT: WILCOX	JN: 119672A

CONSTRUCTION SHEET		DRAWING	SHEET
STA 732+00 TO STA 744+00		194EB	SECT 1
		CON	81
		013	



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

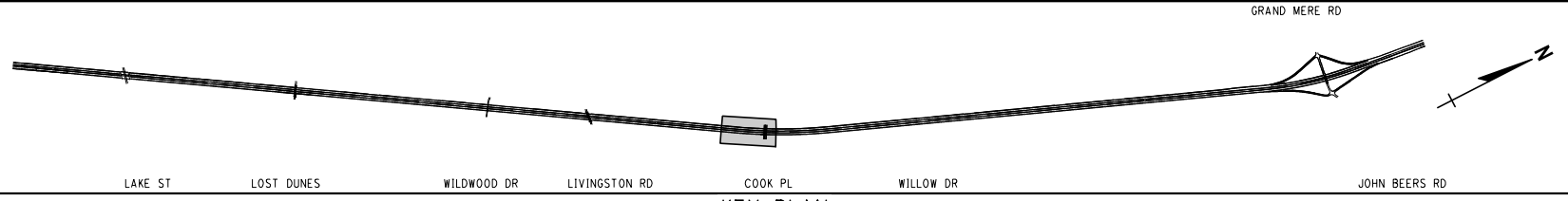


DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_I94EB_PROF_013.dgn

CS: 11015
 JN: 119672A

PROFILE SHEET
 STA 732+00 TO STA 744+00

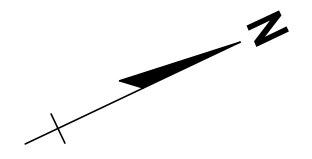
DRAWING SHEET
 194EB PROF 013
 SECT 1
 82



KEY PLAN
NO SCALE

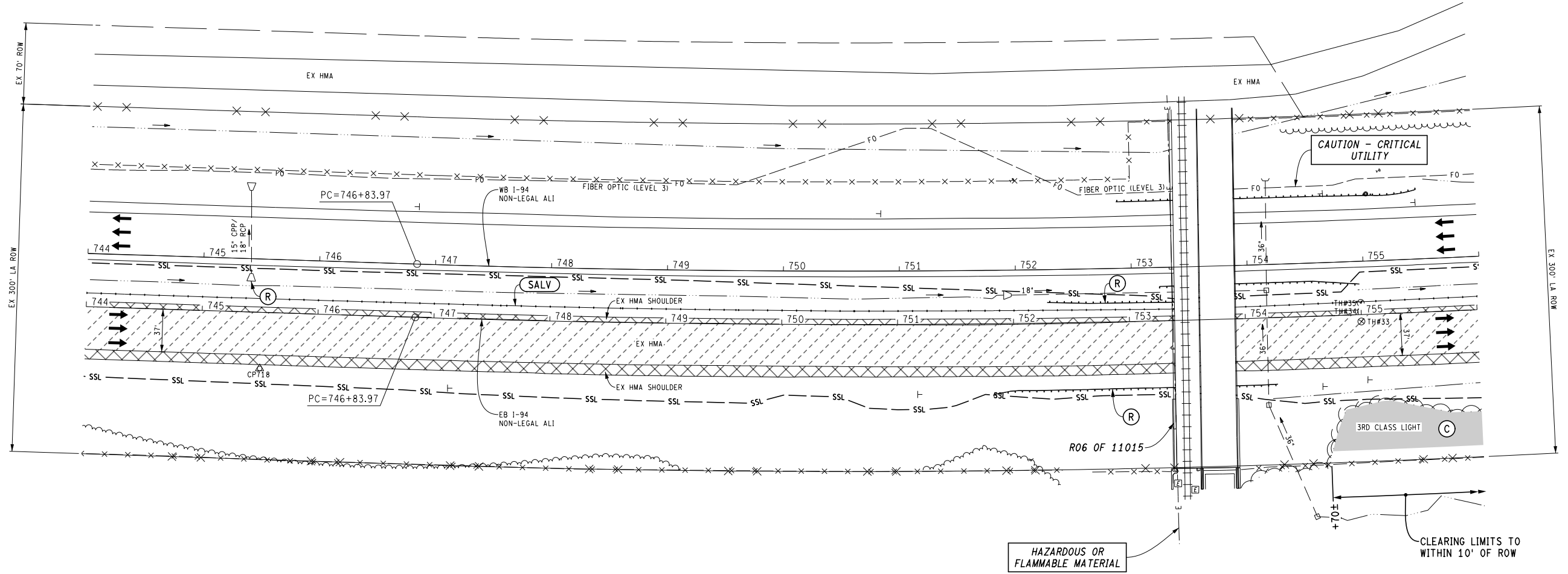
SECTION 5
T6S, R19W
LAKE TWP

COOK PL



THORNTON DR

EB WB
I-94 I-94



THORNTON DR

EB WB
I-94 I-94

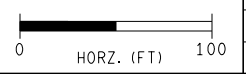
SECTION 5
T6S, R19W
LAKE TWP

QUANTITIES THIS SHEET

JN 119672		
CAT 0001		
0.11	Acre	Clearing
1	Ea	Culv. End. Rem. Less than 24 inch
380	Ft	Guardrail, Rem
1796	Syd	Pavt. Rem
1532	Cyd	Excavation, Earth
4934	Syd	Cold Milling HMA Surface
1200	Ft	Cable Barrier, High Tension, Salv
119	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem

COOK PL

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



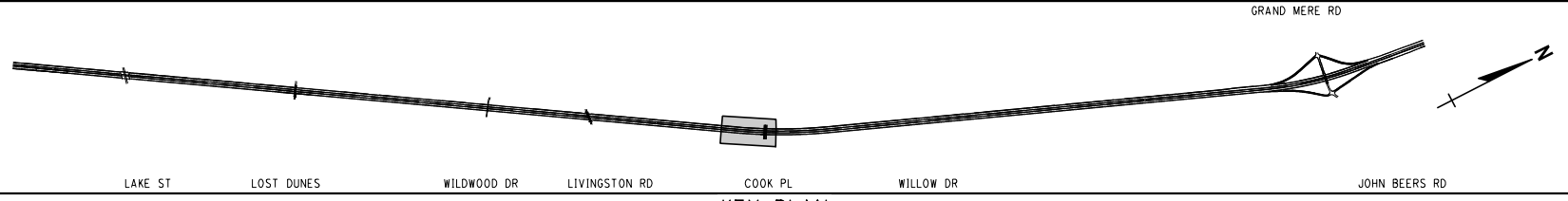
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

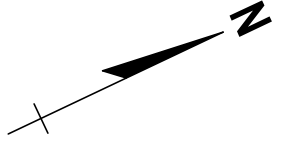
REMOVAL SHEET
STA 744+00 TO STA 756+00

DRAWING SHEET
194EB
REM
014
SECT 1
83



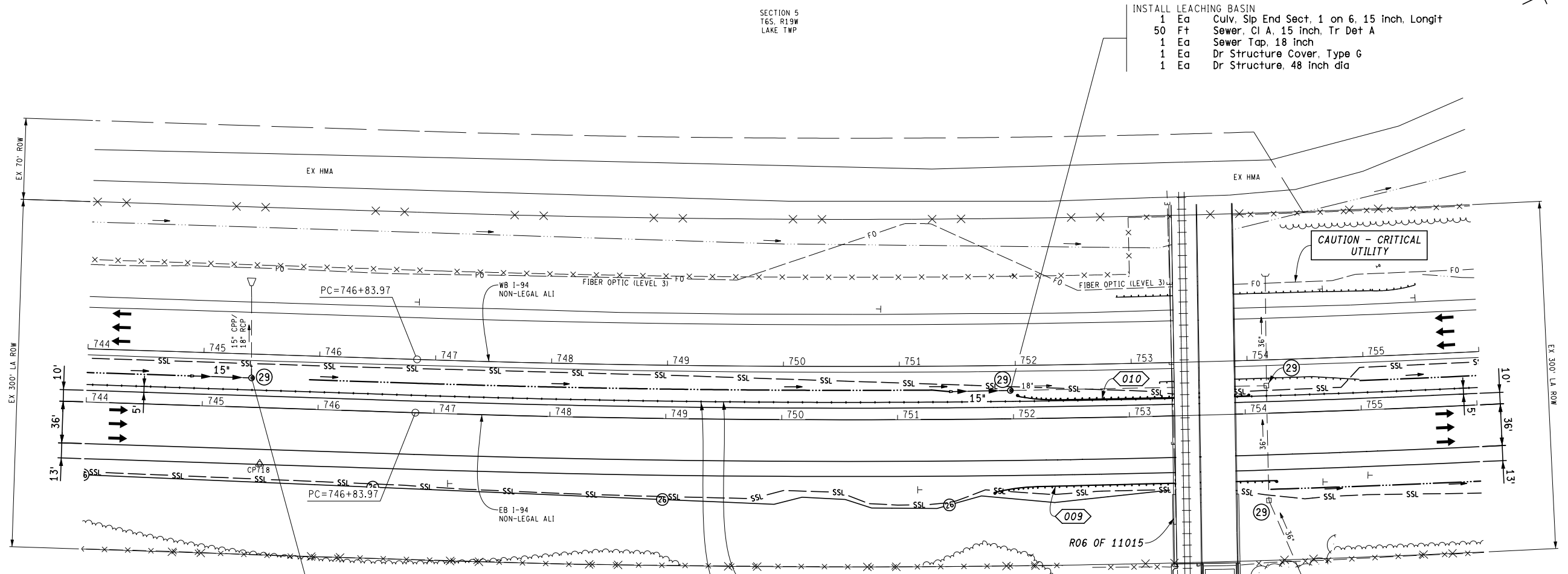
KEY PLAN
NO SCALE

COOK PL



THORNTON DR
EB WB I-94

THORNTON DR
EB WB I-94



- INSTALL LEACHING BASIN
- 1 Ea Culv, Slip End Sect, 1 on 6, 15 inch, Longit
 - 50 Ft Sewer, CI A, 15 inch, Tr Det A
 - 1 Ea Sewer Tap, 18 inch
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

- INSTALL LEACHING BASIN
- 1 Ea Culv, Slip End Sect, 1 on 6, 15 inch, Longit
 - 58 Ft Sewer, CI A, 15 inch, Tr Det A
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

SECTION 5
T6S, R19W
LAKE TWP

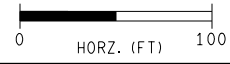
SECTION 5
T6S, R19W
LAKE TWP

QUANTITIES THIS SHEET

QTY	UNIT	DESCRIPTION
242	Cyd	Embankment, CIP
1213	Cyd	Granular Material, CI IIAA
4	Ea	Erosion Control, Inlet Protection, Fabric Drop
2	Ea	Erosion Control, Inlet Protection, Sediment Trap
985	Ft	Erosion Control, Silt Fence
16	Ft	Permeable Runoff Structure
3128	Syd	Aggregate Base, 6 inch
344	Ton	Shoulder, CI II
890	Ft	Underdrain, Subgrade, 10 inch, Modified
557	Ton	HMA, 3E3
372	Ton	HMA, 4E3
581	Ton	HMA, 4E30
279	Ton	HMA, 5E3
274	Ton	HMA, 5E30
436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
1200	Ft	Cable Barrier, High Tension, Reconst
119	Ea	Cable Barrier, High Tension, Line Post Fdn
5114	Syd	Turf Establishment, Performance
2400	Ft	Shoulder Corrugations, Ground or Cut, HMA

COOK PL

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



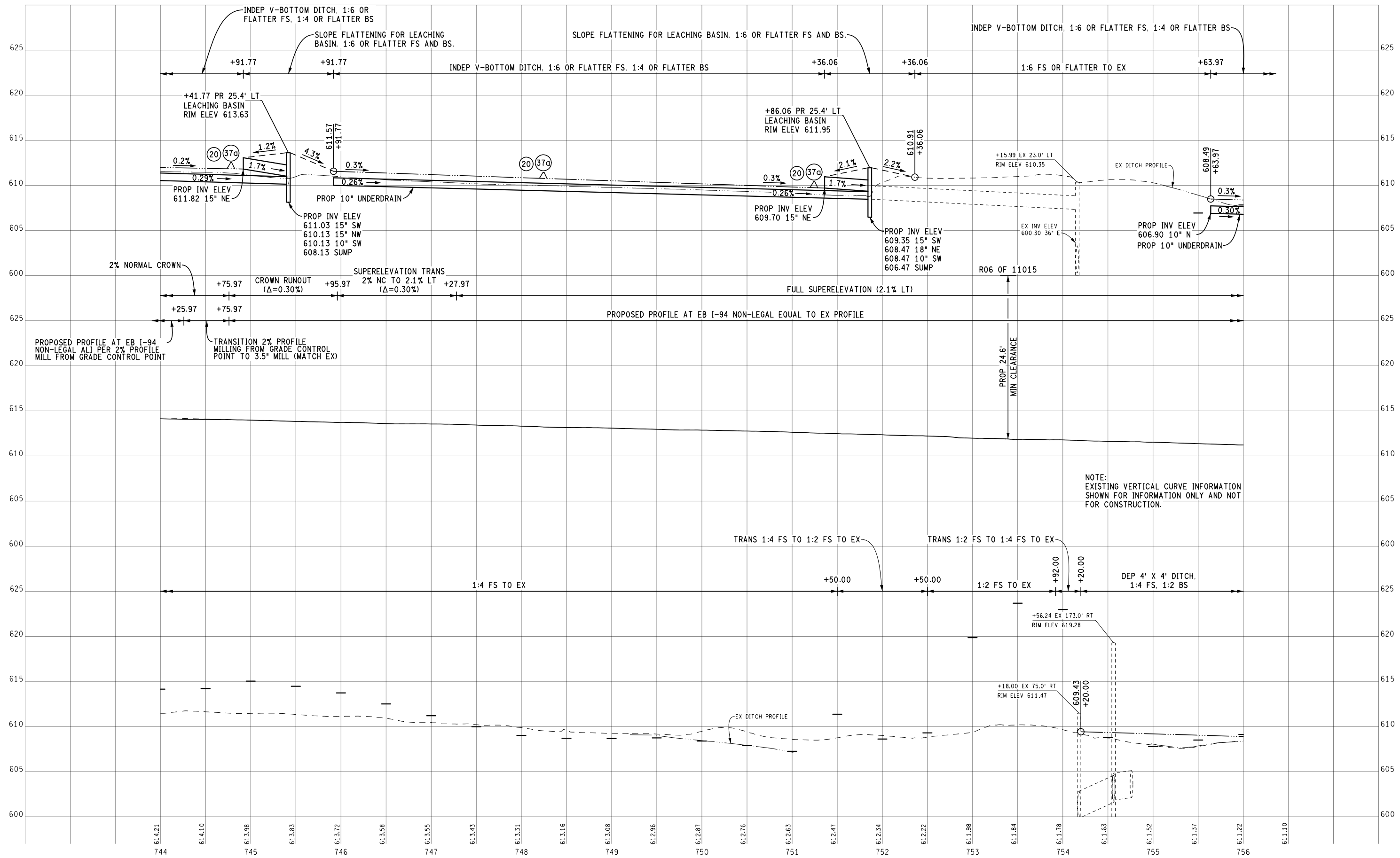
FILE: 119672_I94EB_CON_014.dgn

DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

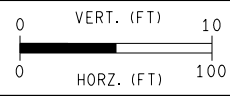
CONSTRUCTION SHEET
STA 744+00 TO STA 756+00

DRAWING SHEET
194EB CON 014
SECT 1
84



NOTE:
EXISTING VERTICAL CURVE INFORMATION
SHOWN FOR INFORMATION ONLY AND NOT
FOR CONSTRUCTION.

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

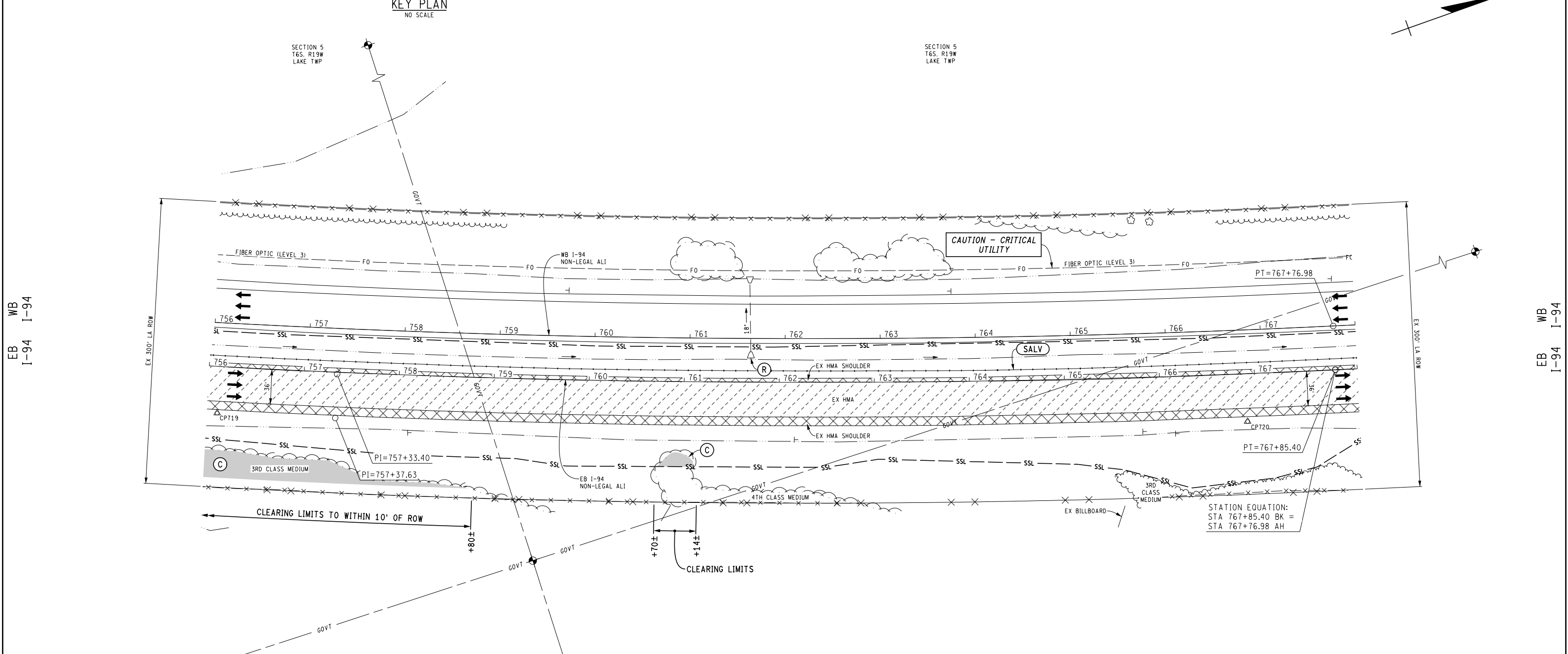
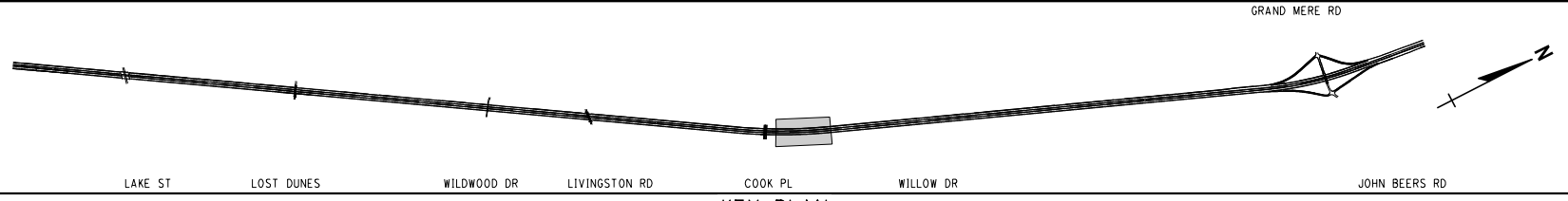


DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO
FILE: 119672_194EB_PROF_014.dgn

CS: 11015
JN: 119672A

PROFILE SHEET
STA 744+00 TO STA 756+00

DRAWING SHEET
194EB PROF 014
85



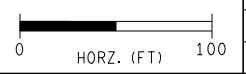
EB WB
I-94 I-94

EB WB
I-94 I-94

QUANTITIES THIS SHEET

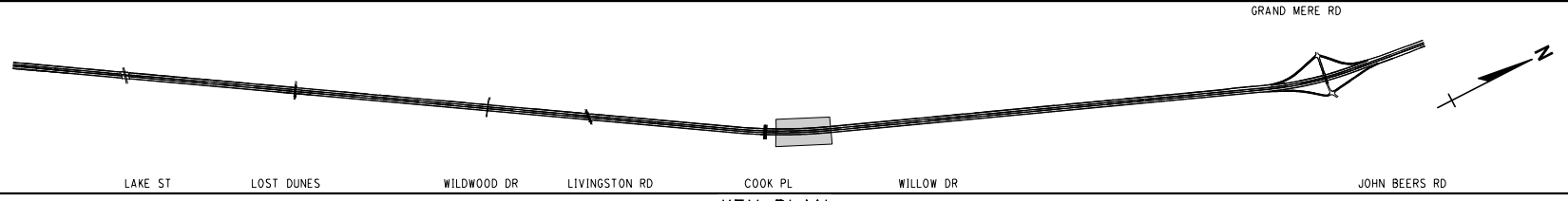
JN 119672	0.12	Acre	Clearing
CAT 0001	1	Ea	Culv. End. Rem. Less than 24 inch
	1831	Syd	Pavt. Rem
	5794	Cyd	Excavation, Earth
	4800	Syd	Cold Milling HMA Surface
	1200	Ft	Cable Barrier, High Tension, Salv
	119	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem

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

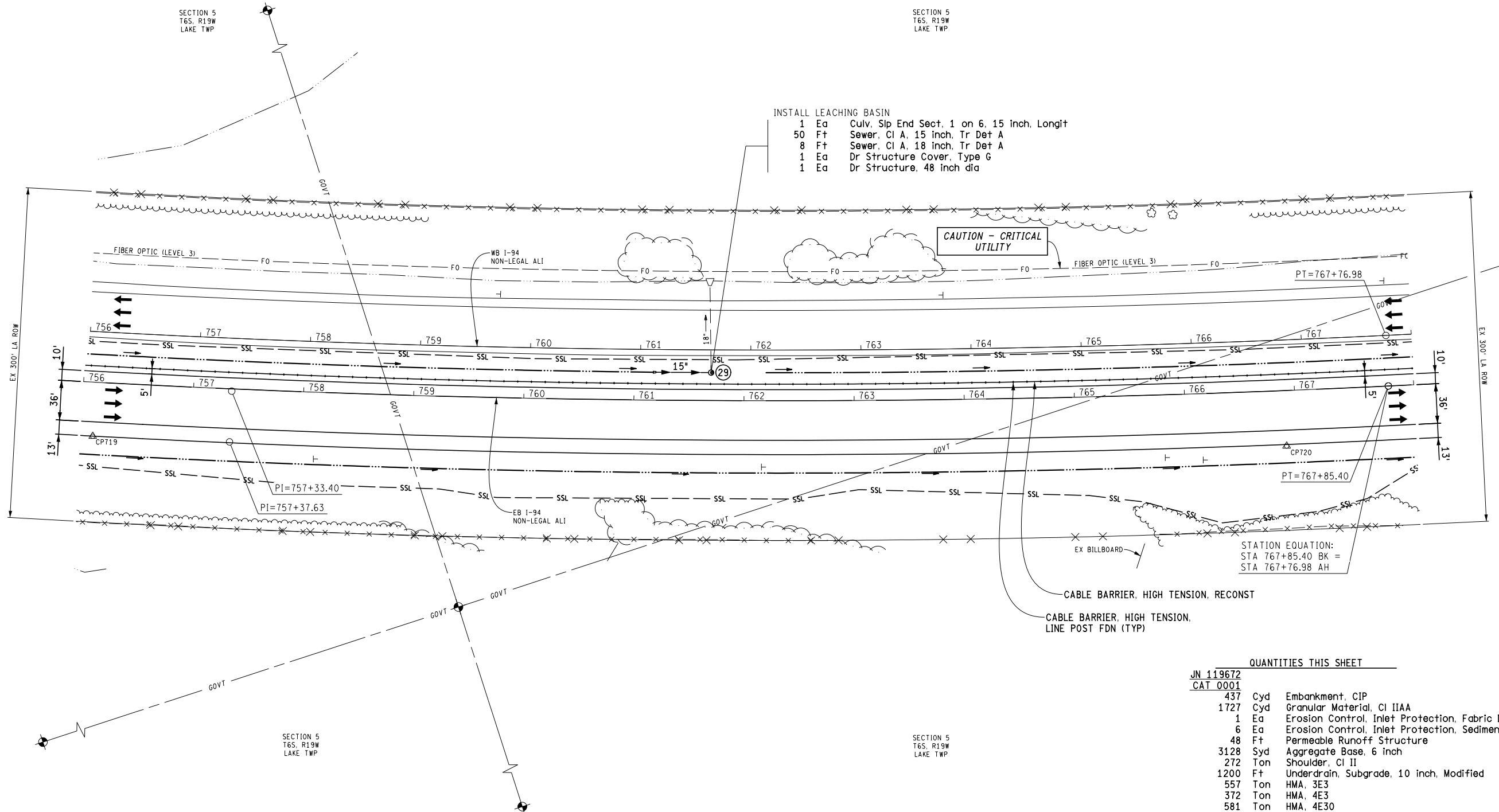


DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
TSC: KALAMAZOO	FILE: 119672_I94EB_REM_015.dgn

REMOVAL SHEET		DRAWING	SHEET
STA 756+00 TO STA 768+00		194EB	SECT 1
		015	86



KEY PLAN
NO SCALE



- INSTALL LEACHING BASIN
- 1 Ea Culv, Slip End Sect, 1 on 6, 15 inch, Longit
 - 50 Ft Sewer, CI A, 15 inch, Tr Det A
 - 8 Ft Sewer, CI A, 18 inch, Tr Det A
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

CAUTION - CRITICAL UTILITY

STATION EQUATION:
STA 767+85.40 BK =
STA 767+76.98 AH

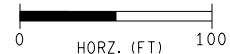
QUANTITIES THIS SHEET

JN 119672 CAT 0001		
437	Cyd	Embankment, CIP
1727	Cyd	Granular Material, CI IIAA
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
6	Ea	Erosion Control, Inlet Protection, Sediment Trap
48	Ft	Permeable Runoff Structure
3128	Syd	Aggregate Base, 6 inch
272	Ton	Shoulder, CI II
1200	Ft	Underdrain, Subgrade, 10 inch, Modified
557	Ton	HMA, 3E3
372	Ton	HMA, 4E3
581	Ton	HMA, 4E30
279	Ton	HMA, 5E3
210	Ton	HMA, 5E30
436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
1200	Ft	Cable Barrier, High Tension, Reconst
119	Ea	Cable Barrier, High Tension, Line Post Fdn
495	Syd	Mulch Blanket
2454	Syd	Mulch Blanket, High Velocity
6303	Syd	Turf Establishment, Performance
2948	Syd	Dune Grass Planting
2400	Ft	Shoulder Corrugations, Ground or Cut, HMA

EB WB
I-94 I-94

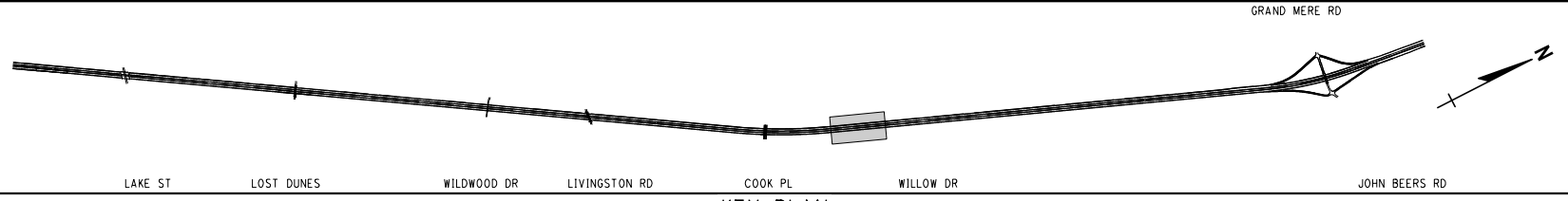
EB WB
I-94 I-94

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



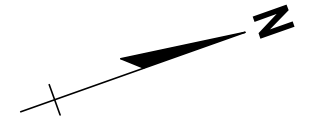
DATE: 08/03/16 CS: 11015
 DESIGN UNIT: WILCOX JN: 119672A
 TSC: KALAMAZOO FILE: 119672_I94EB_CON_015.dgn

CONSTRUCTION SHEET
 STA 756+00 TO STA 768+00
 DRAWING SHEET
 194EB CON 015 SECT 1
 87



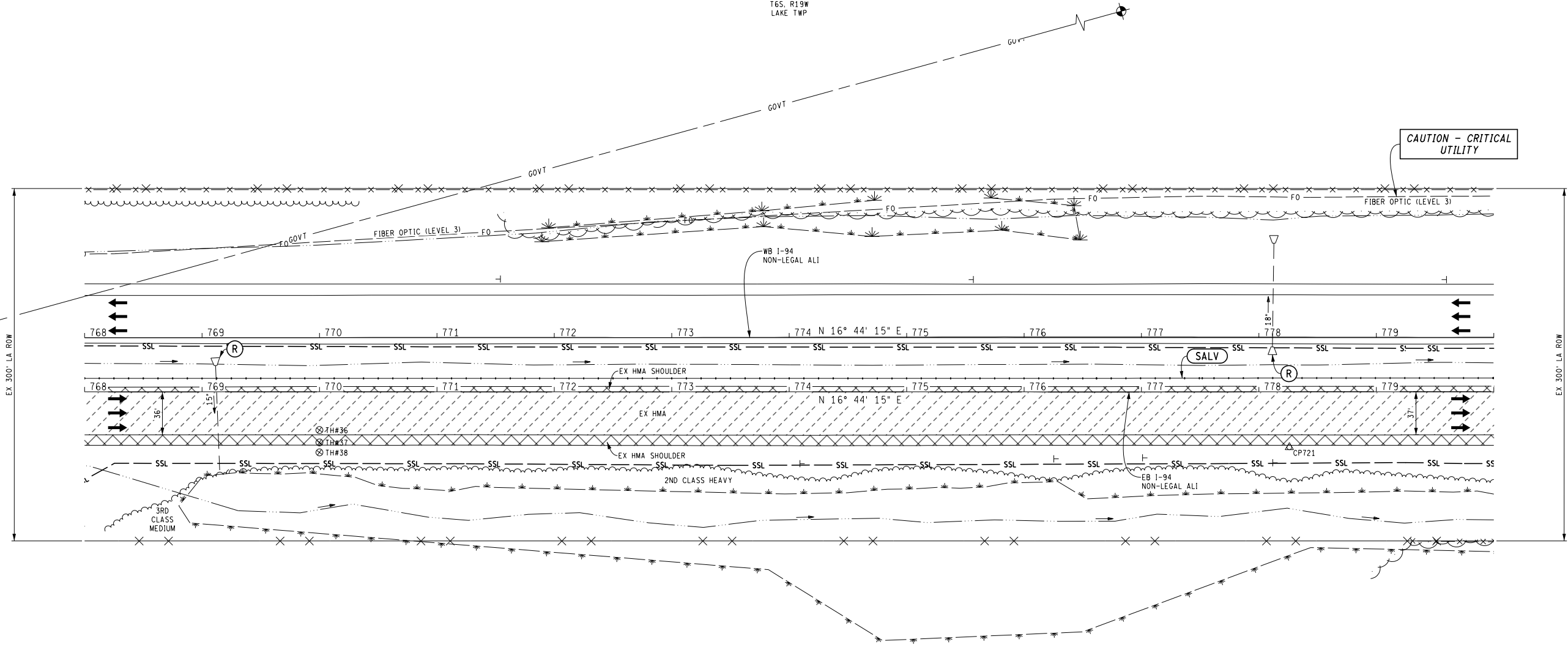
KEY PLAN
NO SCALE

SECTION 5
T6S, R19W
LAKE TWP



WB
I-94

WB
I-94

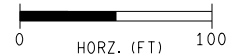


SECTION 5
T6S, R19W
LAKE TWP

QUANTITIES THIS SHEET

JN 119672		CAT 0001	
2	Ea	Culv. End. Rem. Less than 24 inch	
1839	Syd	Pavt. Rem	
1733	Cyd	Excavation, Earth	
4867	Syd	Cold Milling HMA Surface	
1200	Ft	Cable Barrier, High Tension, Salv	
119	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem	

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



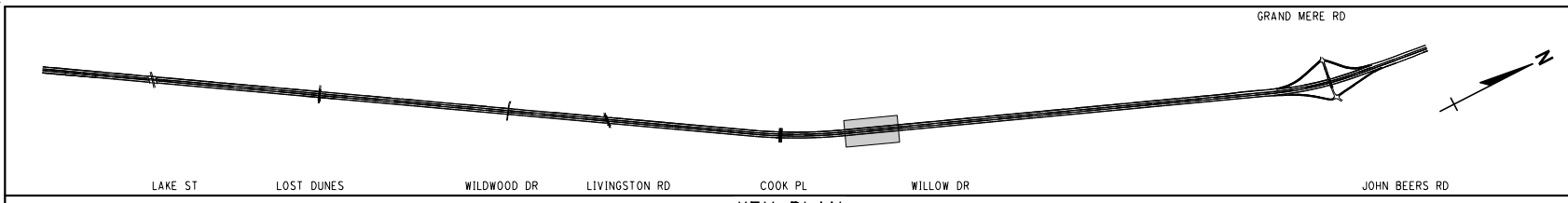
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

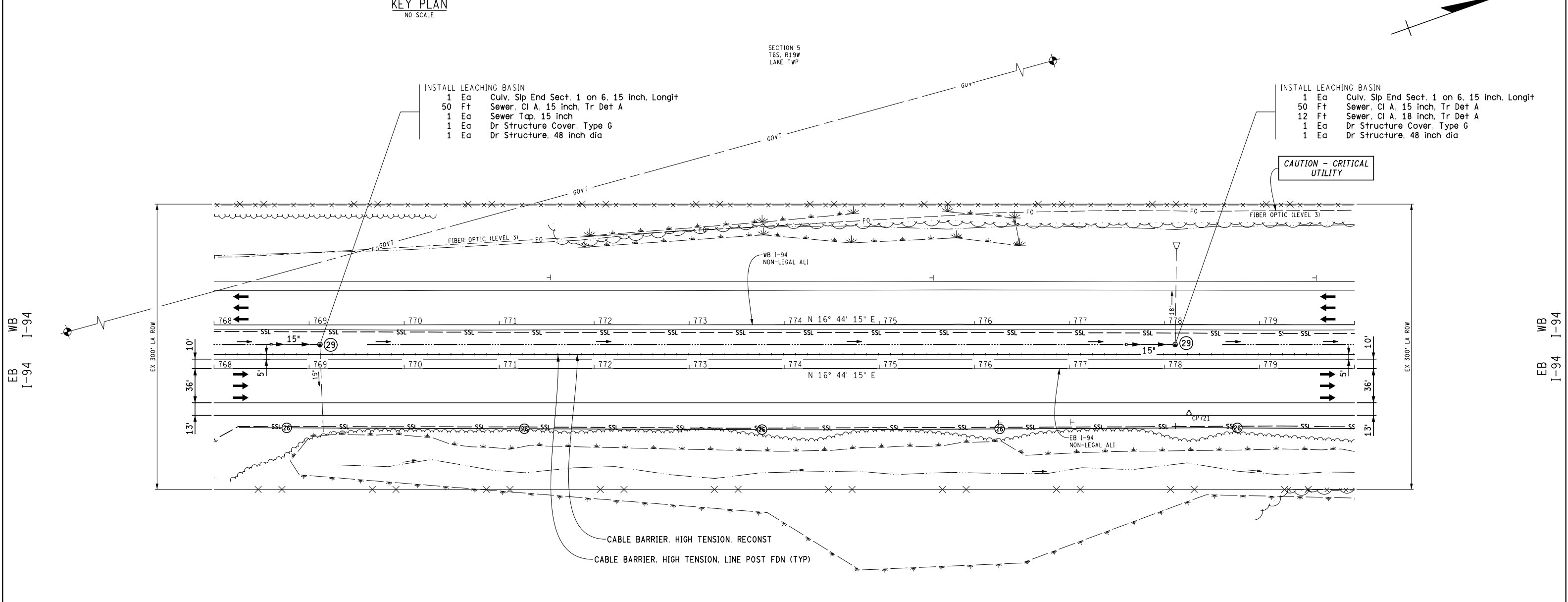
REMOVAL SHEET
STA 768+00 TO STA 780+00

DRAWING SHEET
194EB REM 016
SECT 1
89



KEY PLAN
NO SCALE

SECTION 5
T6S, R19W
LAKE TWP



INSTALL LEACHING BASIN
 1 Ea Culv. Slip End Sect, 1 on 6, 15 inch, Longit
 50 Ft Sewer, CI A, 15 inch, Tr Det A
 1 Ea Sewer Tap, 15 inch
 1 Ea Dr Structure Cover, Type G
 1 Ea Dr Structure, 48 inch dia

INSTALL LEACHING BASIN
 1 Ea Culv. Slip End Sect, 1 on 6, 15 inch, Longit
 50 Ft Sewer, CI A, 15 inch, Tr Det A
 12 Ft Sewer, CI A, 18 inch, Tr Det A
 1 Ea Dr Structure Cover, Type G
 1 Ea Dr Structure, 48 inch dia

CAUTION - CRITICAL UTILITY

WB I-94
EB I-94

WB I-94
EB I-94

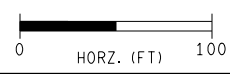
CABLE BARRIER, HIGH TENSION, RECONST
 CABLE BARRIER, HIGH TENSION, LINE POST FDN (TYP)

SECTION 5
T6S, R19W
LAKE TWP

QUANTITIES THIS SHEET

JN 119672	88	Cyd	Embankment, CIP
CAT 0001	1719	Cyd	Granular Material, CI IIAA
	5	Ea	Erosion Control, Inlet Protection, Fabric Drop
	2	Ea	Erosion Control, Inlet Protection, Sediment Trap
	1195	Ft	Erosion Control, Silt Fence
	40	Ft	Permeable Runoff Structure
	3128	Syd	Aggregate Base, 6 inch
	276	Ton	Shoulder, CI II
	1200	Ft	Underdrain, Subgrade, 10 inch, Modified
	557	Ton	HMA, 3E3
	372	Ton	HMA, 4E3
	581	Ton	HMA, 4E30
	279	Ton	HMA, 5E3
	16	Ton	HMA, 5E30
	436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
	1200	Ft	Cable Barrier, High Tension, Reconst
	119	Ea	Cable Barrier, High Tension, Line Post Fdn
	4872	Syd	Turf Establishment, Performance
	2400	Ft	Shoulder Corrugations, Ground or Cut, HMA

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

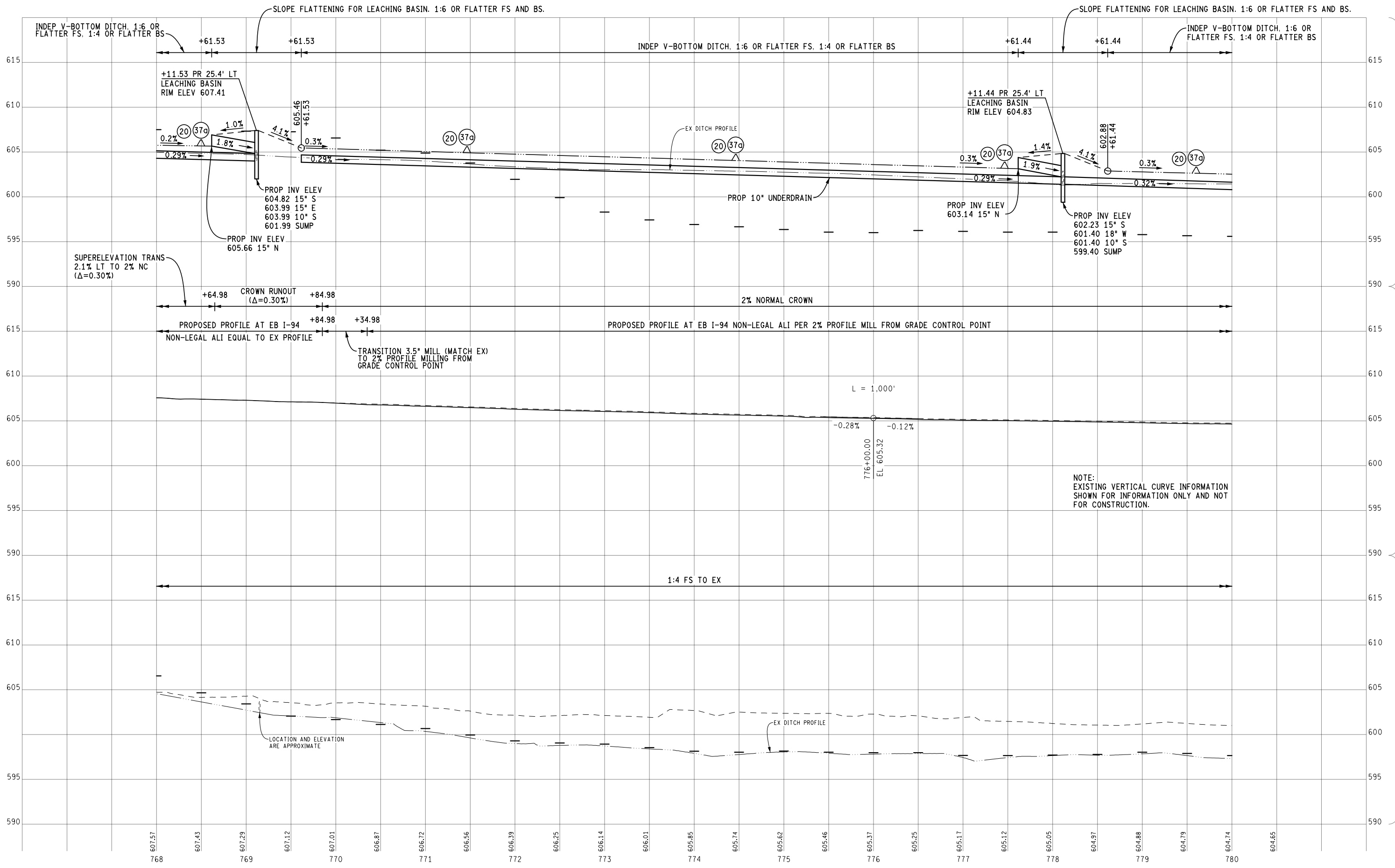


FILE: 119672_I94EB_CON_016.dgn

DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO

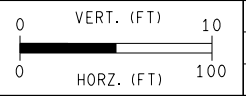
CS: 11015
 JN: 119672A

CONSTRUCTION SHEET		DRAWING	SHEET
STA 768+00 TO STA 780+00		194EB	SECT 1
		CON	90
		016	



EX GROUND PROFILE 23' LT
 EX GROUND POINTS 173' LT
 PROP LT DITCH PROFILE
 EX GROUND PROFILE AT EB I-94 NON-LEGAL ALI
 APPROXIMATE PROFILE AT EB I-94 NON-LEGAL ALI
 EX GROUND PROFILE 66' RT
 EX GROUND POINTS 123' RT
 PROP RT DITCH PROFILE

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

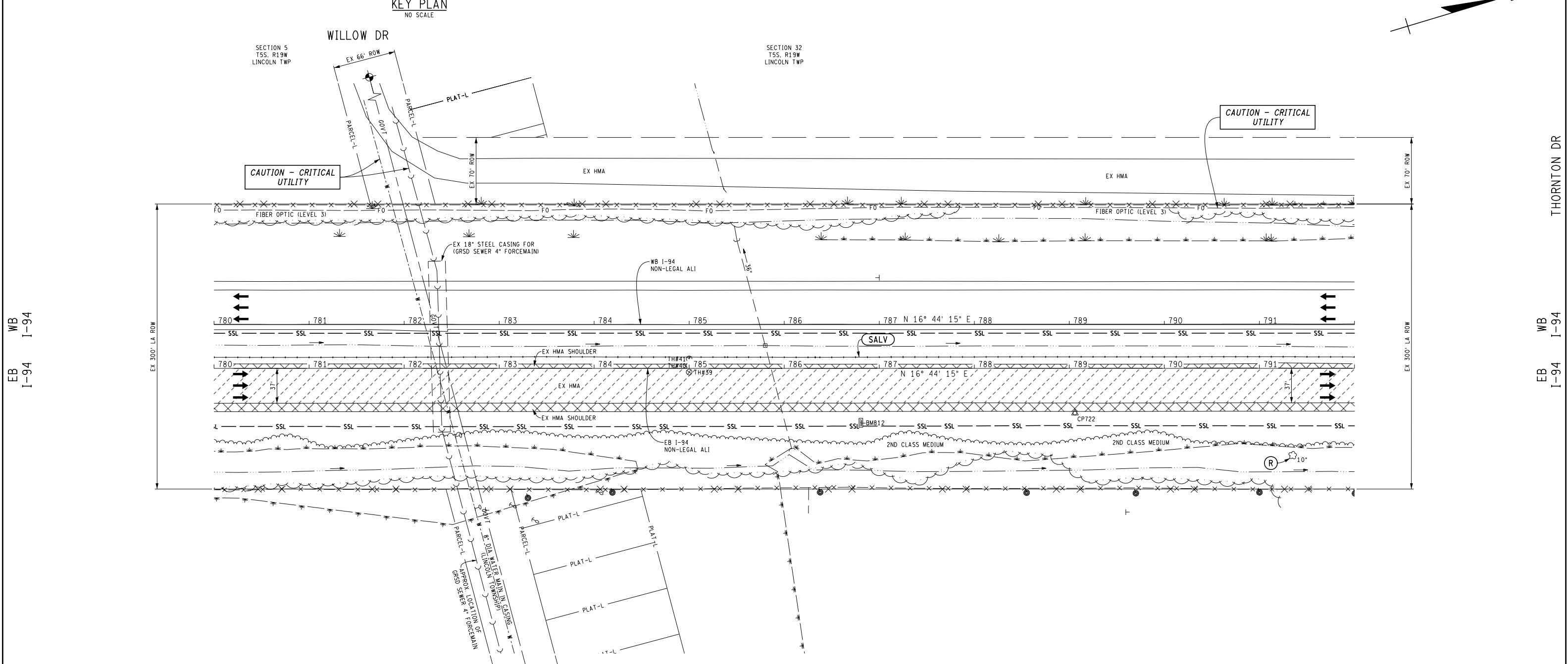
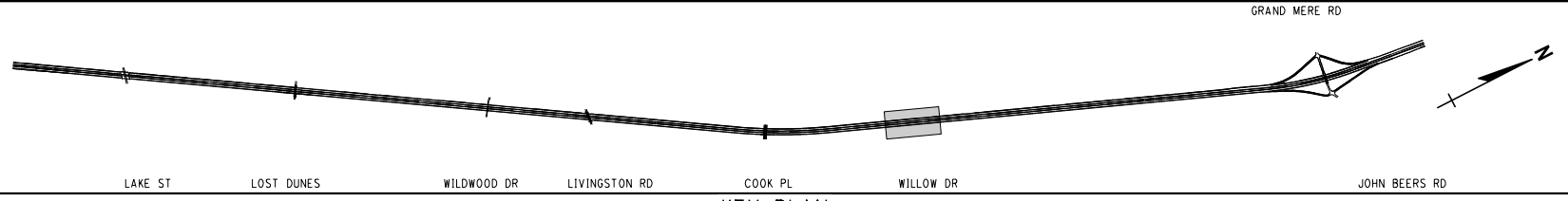


DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_I94EB_PROF_016.dgn

CS: 11015
 JN: 119672A

PROFILE SHEET
 STA 768+00 TO STA 780+00

DRAWING SHEET
 194EB PROF 016
 SECT 1
 91



QUANTITIES THIS SHEET

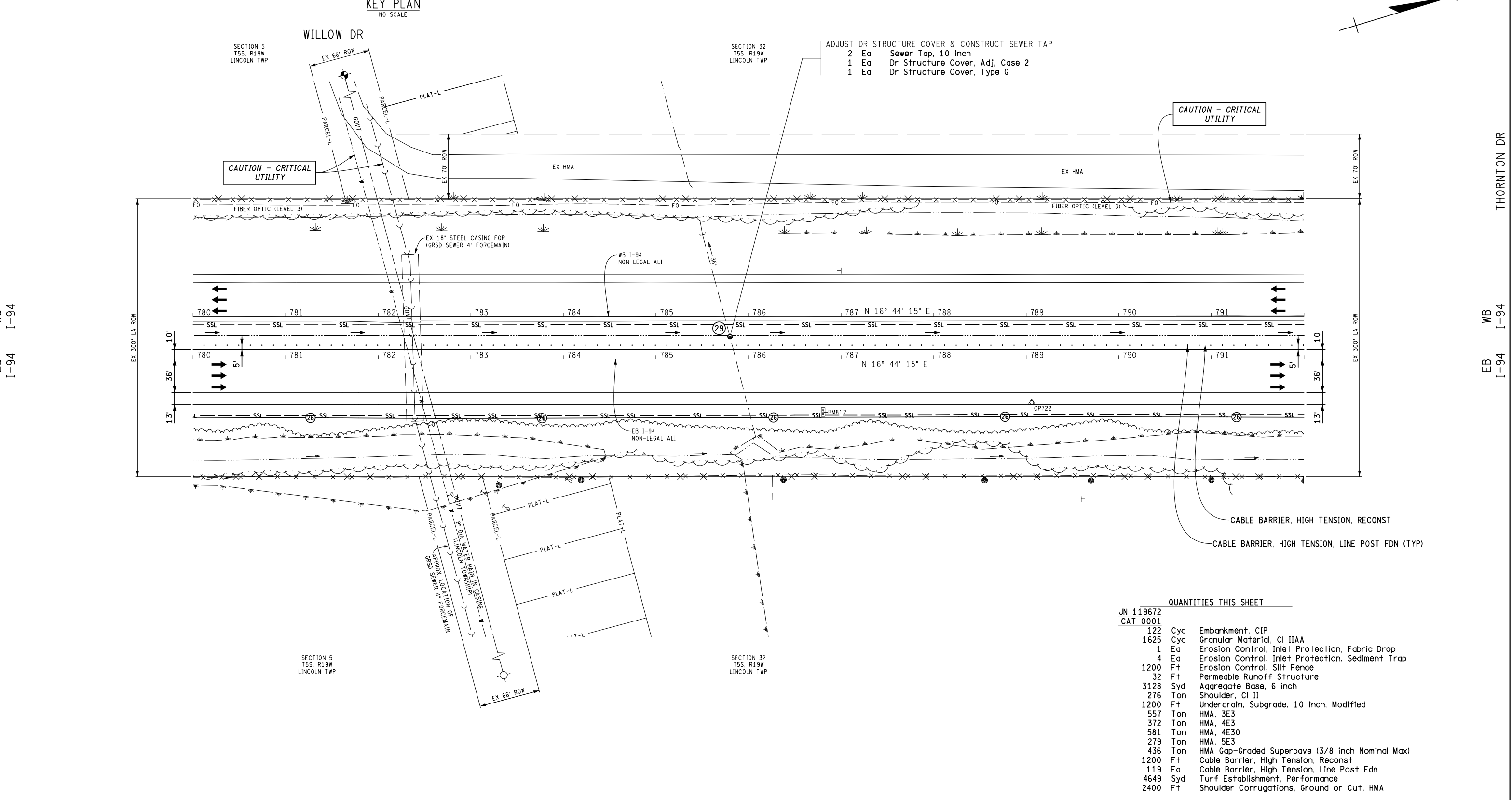
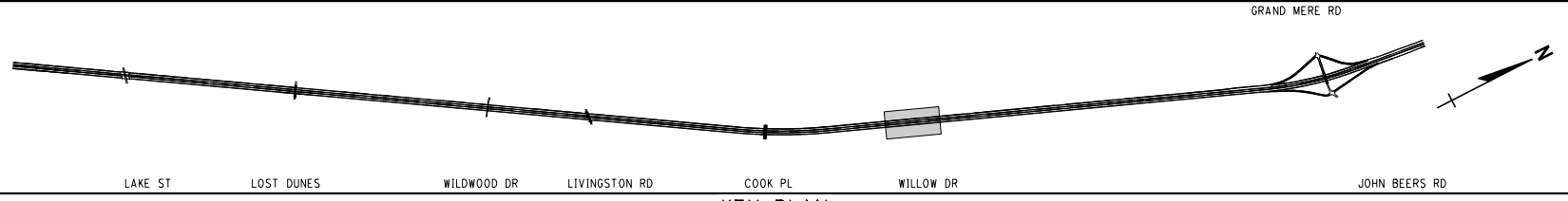
JN 119672			
CAT 0001			
1	Ea	Tree, Rem, 6 inch to 18 inch	
1816	Syd	Pavt. Rem	
1376	Cyd	Excavation, Earth	
4934	Syd	Cold Milling HMA Surface	
1200	Ft	Cable Barrier, High Tension, Salv	
119	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem	

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

WILLOW DR

DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
TSC: KALAMAZOO	FILE: 119672_194EB_REM_017.dgn

REMOVAL SHEET		DRAWING	SHEET
STA 780+00 TO STA 792+00		194EB	SECT 1
		017	92



ADJUST DR STRUCTURE COVER & CONSTRUCT SEWER TAP
 2 Ea Sewer Tap, 10 inch
 1 Ea Dr Structure Cover, Adj, Case 2
 1 Ea Dr Structure Cover, Type G

CAUTION - CRITICAL UTILITY

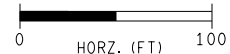
CAUTION - CRITICAL UTILITY

CABLE BARRIER, HIGH TENSION, RECONST
 CABLE BARRIER, HIGH TENSION, LINE POST FDN (TYP)

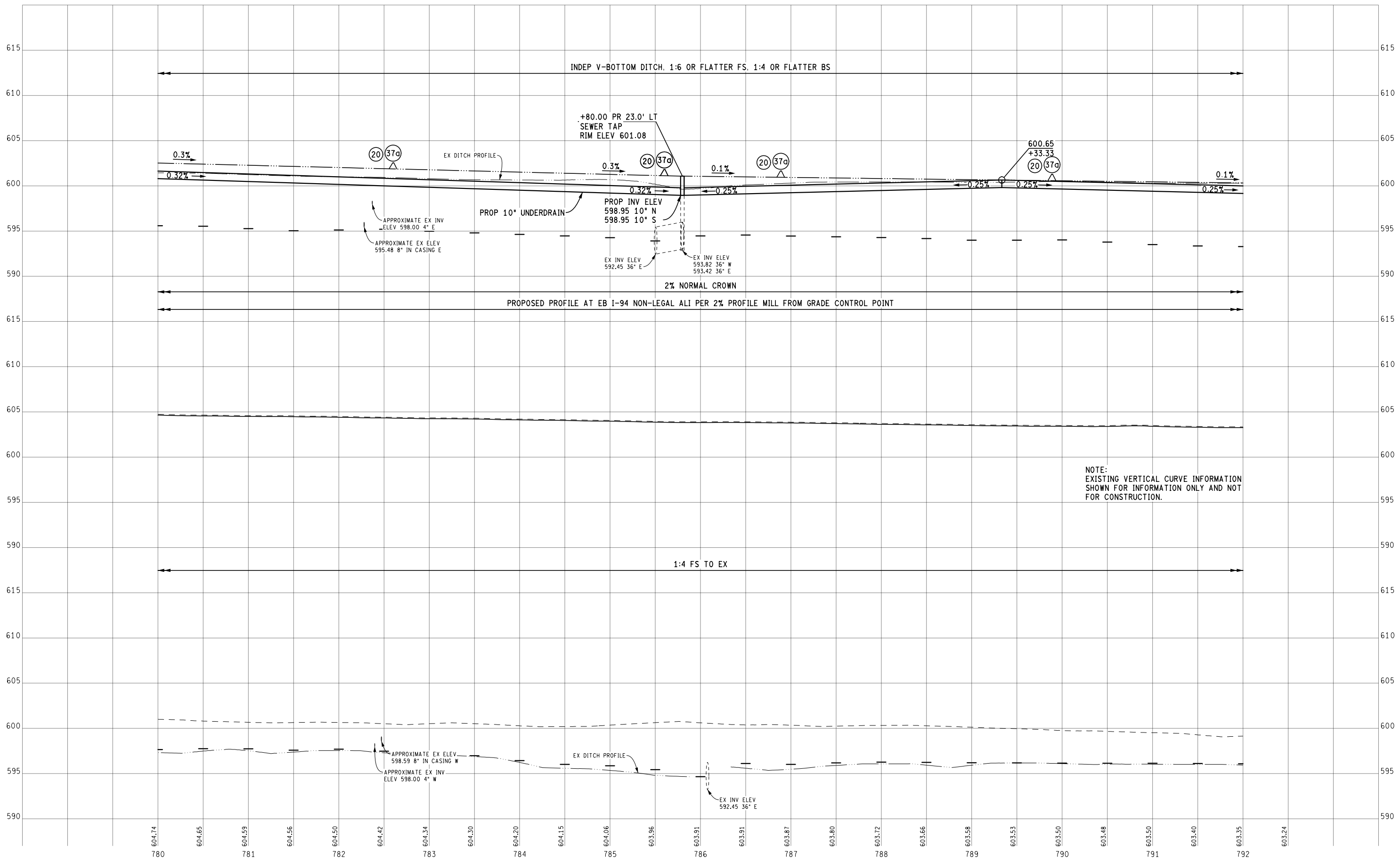
QUANTITIES THIS SHEET

NO.	UNIT	DESCRIPTION
JN 119672		
CAT 0001		
122	Cyd	Embankment, CIP
1625	Cyd	Granular Material, CI IIAA
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
4	Ea	Erosion Control, Inlet Protection, Sediment Trap
1200	Ft	Erosion Control, Silt Fence
32	Ft	Permeable Runoff Structure
3128	Syd	Aggregate Base, 6 inch
276	Ton	Shoulder, CI II
1200	Ft	Underdrain, Subgrade, 10 inch, Modified
557	Ton	HMA, 3E3
372	Ton	HMA, 4E3
581	Ton	HMA, 4E30
279	Ton	HMA, 5E3
436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
1200	Ft	Cable Barrier, High Tension, Reconst
119	Ea	Cable Barrier, High Tension, Line Post Fdn
4649	Syd	Turf Establishment, Performance
2400	Ft	Shoulder Corrugations, Ground or Cut, HMA

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



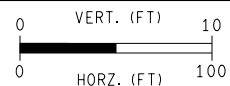
DATE: 08/03/16	CS: 11015	CONSTRUCTION SHEET	DRAWING SHEET
DESIGN UNIT: WILCOX	JN: 119672A		
TSC: KALAMAZOO	FILE: 119672_194EB_CON_017.dgn	STA 780+00 TO STA 792+00	194EB CON 017
			SECT 1
			93



NOTE:
EXISTING VERTICAL CURVE INFORMATION
SHOWN FOR INFORMATION ONLY AND NOT
FOR CONSTRUCTION.

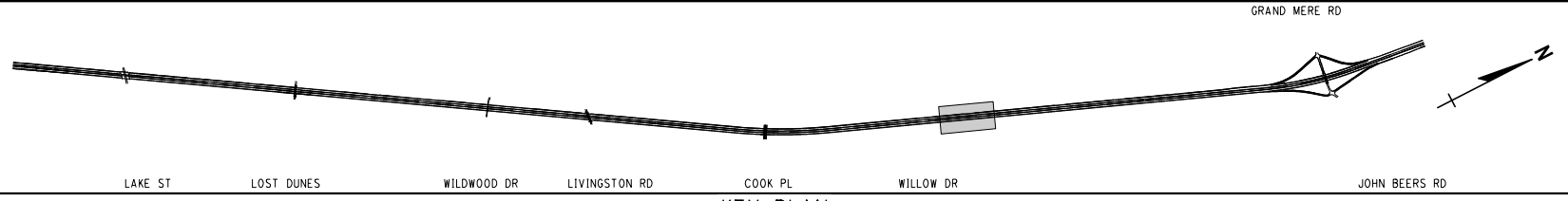
EX GROUND PROFILE 23' LT
EX GROUND POINTS 173' LT
PROP LT DITCH PROFILE
EX GROUND PROFILE AT EB I-94 NON-LEGAL ALI
EX GROUND POINTS 123' RT
PROP RT DITCH PROFILE

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



DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO
CS: 11015
JN: 119672A
FILE: 119672_194EB_PROF_017.dgn

PROFILE SHEET
STA 780+00 TO STA 792+00
DRAWING SHEET
194EB PROF 017
SECT 1
94



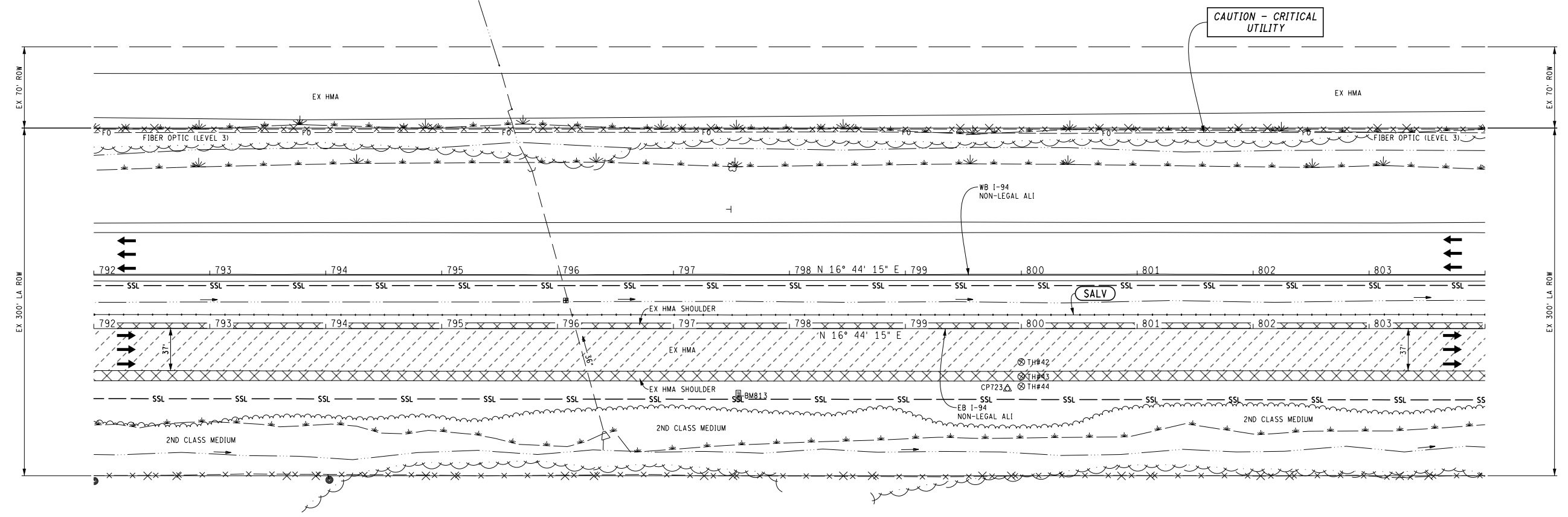
KEY PLAN
NO SCALE

SECTION 32
T5S, R19W
LINCOLN TWP



THORNTON DR
WB I-94
EB I-94

THORNTON DR
WB I-94
EB I-94

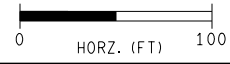


SECTION 32
T5S, R19W
LINCOLN TWP

QUANTITIES THIS SHEET

JN 119672		
CAT 0001		
1795	Syd	Pavt. Rem
1315	Cyd	Excavation, Earth
4934	Syd	Cold Milling HMA Surface
1200	Ft	Cable Barrier, High Tension, Salv
119	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem

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



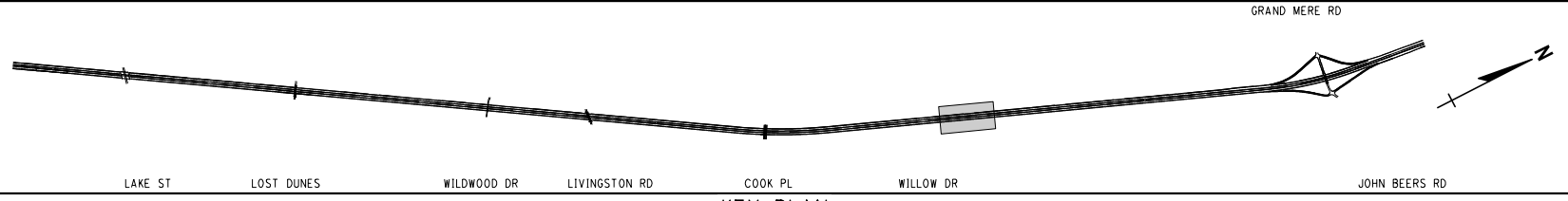
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

REMOVAL SHEET
STA 792+00 TO STA 804+00

DRAWING SHEET
194EB REM 018 SECT 1
95

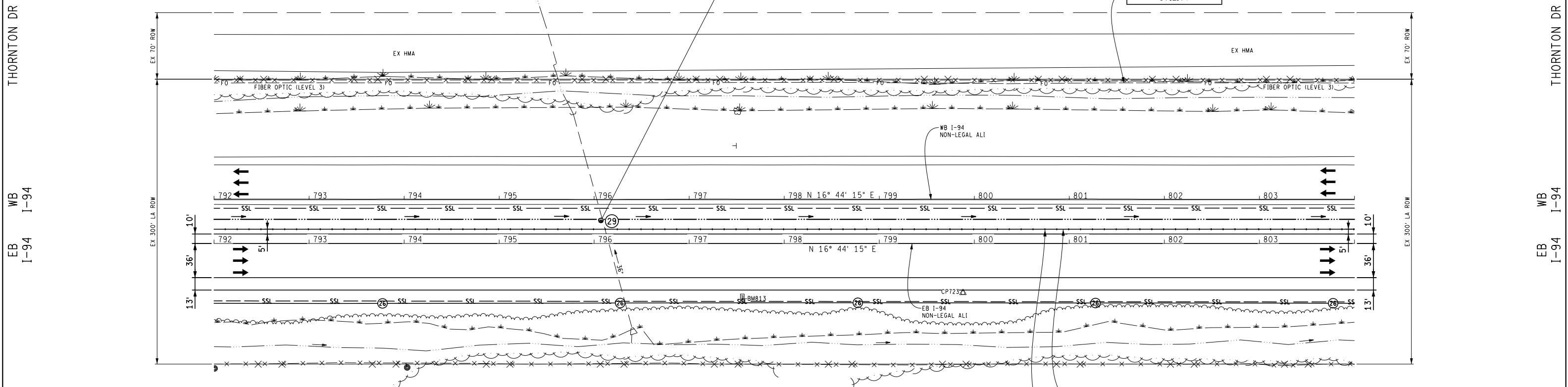


KEY PLAN
NO SCALE

SECTION 32
T5S, R19W
LINCOLN TWP

ADJUST DR STRUCTURE COVER & CONSTRUCT SEWER TAP
 2 Ea Sewer Tap, 10 inch
 1 Ea Dr Structure Cover, Adj. Case 2
 1 Ea Dr Structure Cover, Type G

CAUTION - CRITICAL UTILITY

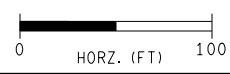


SECTION 32
T5S, R19W
LINCOLN TWP

QUANTITIES THIS SHEET

QTY	UNIT	DESCRIPTION
JN 119672		
CAT 0001		
152	Cyd	Embankment, CIP
1399	Cyd	Granular Material, CI IIAA
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
4	Ea	Erosion Control, Inlet Protection, Sediment Trap
1260	Ft	Erosion Control, Silt Fence
32	Ft	Permeable Runoff Structure
3128	Syd	Aggregate Base, 6 inch
276	Ton	Shoulder, CI II
1200	Ft	Underdrain, Subgrade, 10 inch, Modified
557	Ton	HMA, 3E3
372	Ton	HMA, 4E3
581	Ton	HMA, 4E30
279	Ton	HMA, 5E3
436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
1200	Ft	Cable Barrier, High Tension, Reconst
119	Ea	Cable Barrier, High Tension, Line Post Fdn
4688	Syd	Turf Establishment, Performance
2400	Ft	Shoulder Corrugations, Ground or Cut, HMA

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

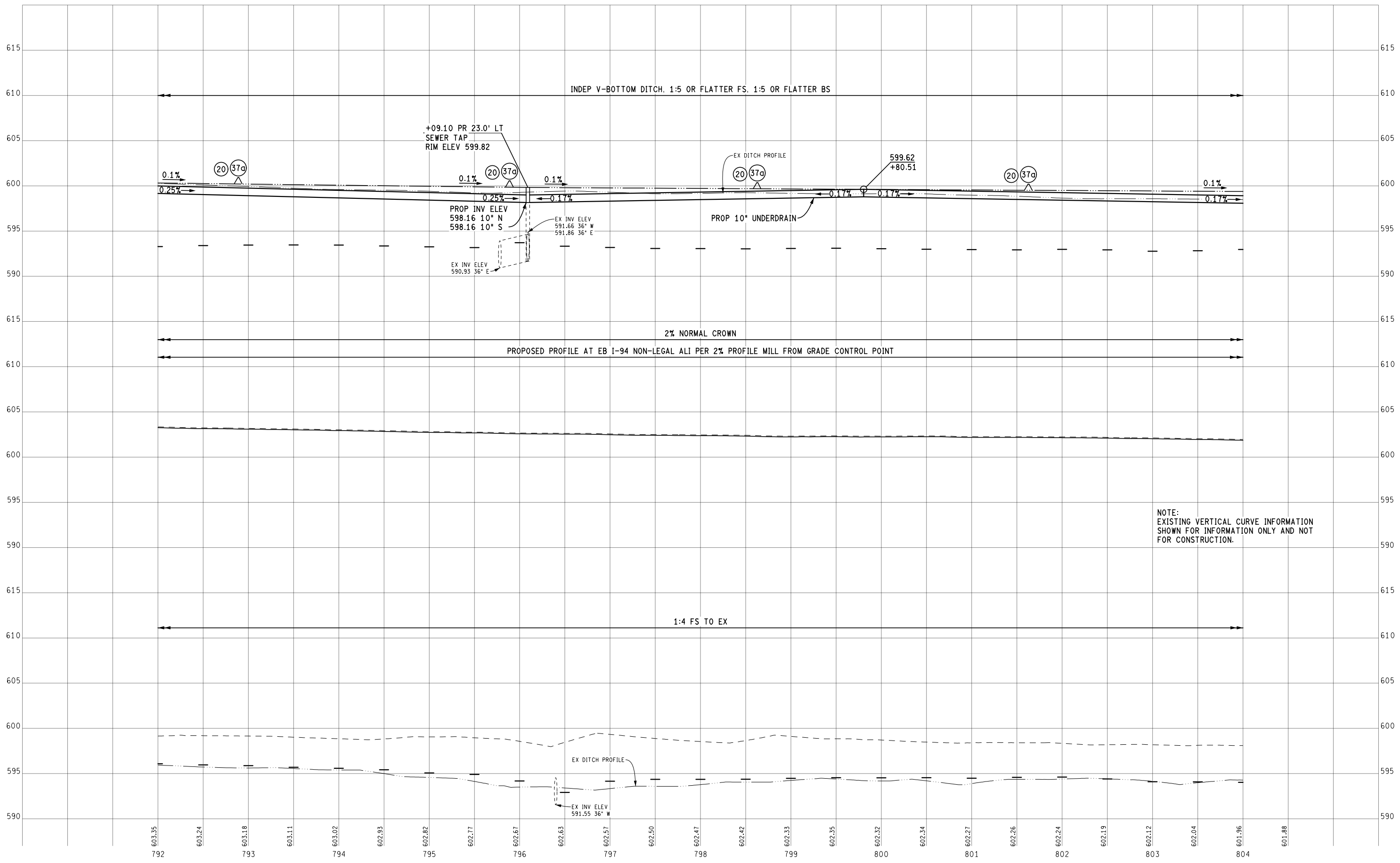


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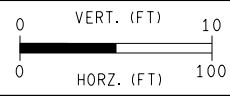
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 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO

CS: 11015
 JN: 119672A

CONSTRUCTION SHEET		DRAWING	SHEET
STA 792+00 TO STA 804+00		194EB CON 018	SECT 1 96



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



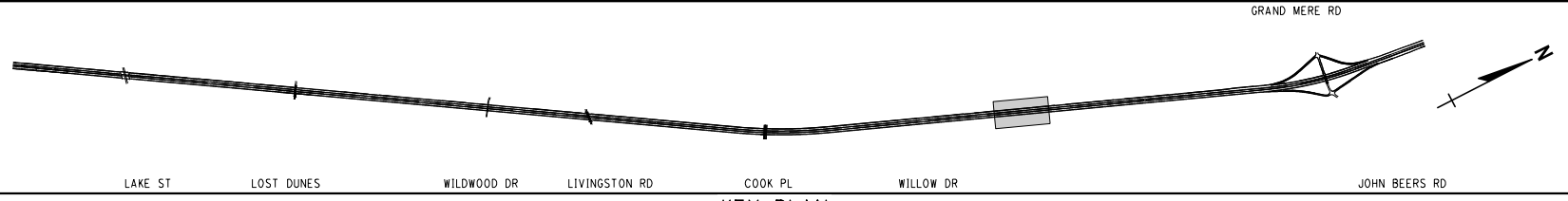
DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
TSC: KALAMAZOO	FILE: 119672_I94EB_PROF_018.dgn

PROFILE SHEET	
STA 792+00 TO STA 804+00	
DRAWING	SHEET
194EB PROF 018	SECT 1 97

EX GROUND PROFILE 23' LT
EX GROUND POINTS 173' LT
PROP LT DITCH PROFILE

EX GROUND PROFILE AT EB I-94 NON-LEGAL ALI
APPROXIMATE PROFILE AT EB I-94 NON-LEGAL ALI

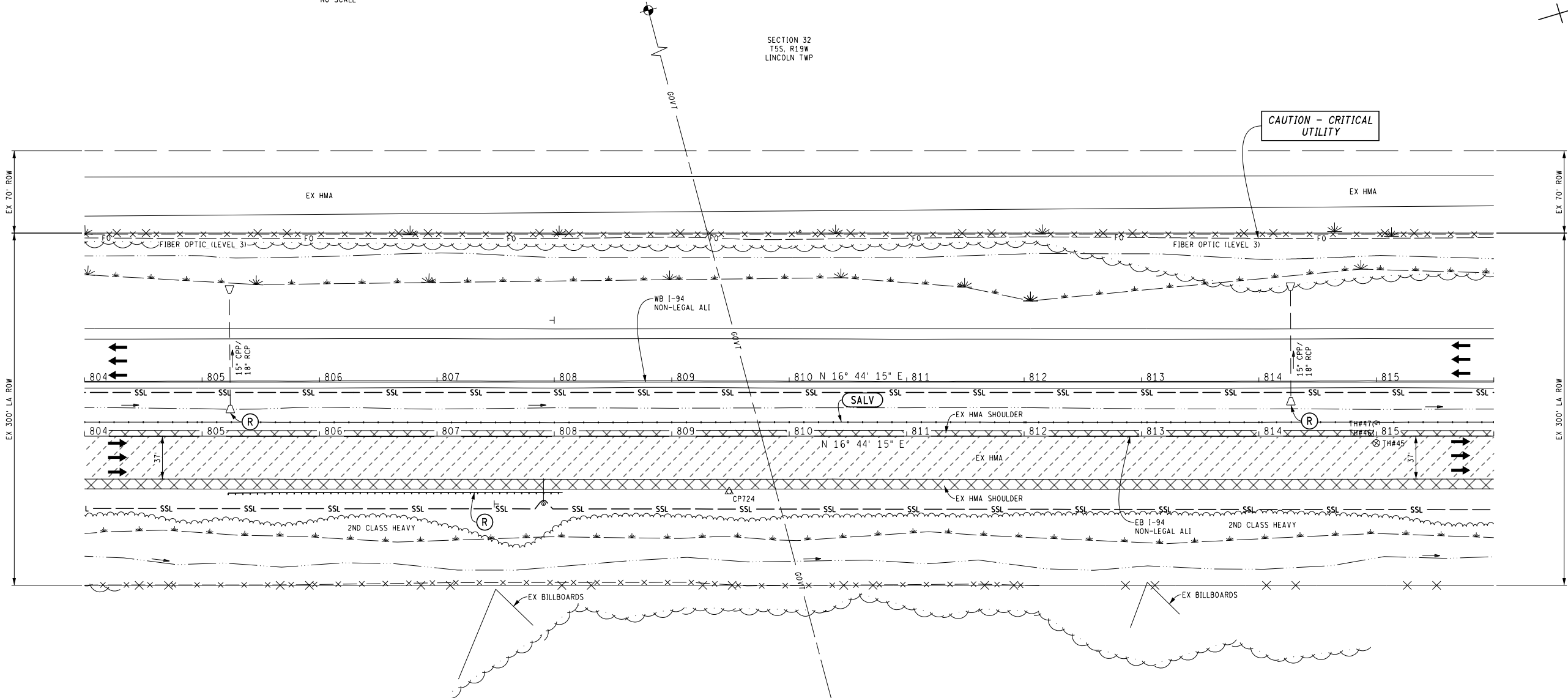
EX GROUND PROFILE 66' RT
EX GROUND POINTS 123' RT
PROP RT DITCH PROFILE



KEY PLAN
NO SCALE



SECTION 32
T55, R19W
LINCOLN TWP



SECTION 32
T55, R19W
LINCOLN TWP

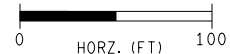
QUANTITIES THIS SHEET

JN 119672		
CAT 0001		
2	Ea	Culv. End, Rem, Less than 24 inch
285	Ft	Guardrail, Rem
1806	Syd	Pavt, Rem
1202	Cyd	Excavation, Earth
4934	Syd	Cold Milling HMA Surface
1200	Ft	Cable Barrier, High Tension, Salv
119	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem

THORNTON DR
WB
I-94

THORNTON DR
WB
I-94

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

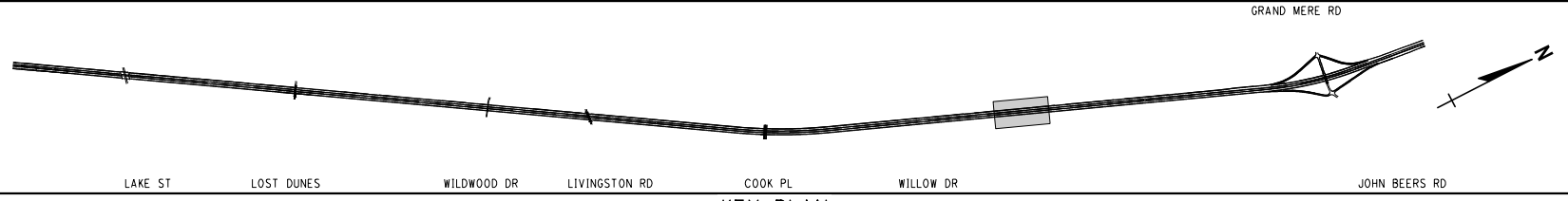


FILE: 119672_I94EB_REM_019.dgn

DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

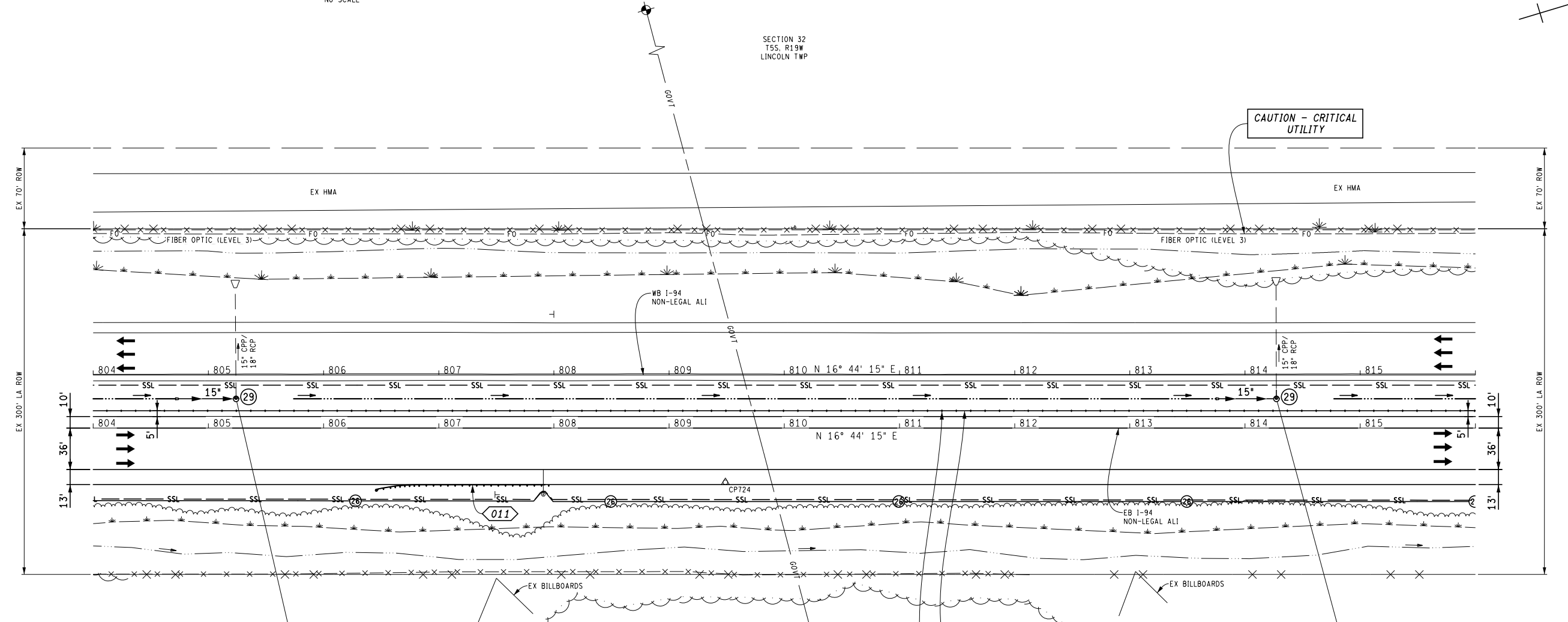
REMOVAL SHEET	
STA 804+00 TO STA 816+00	
DRAWING	SHEET
194EB REM 019	SECT 1 98



KEY PLAN
NO SCALE

THORNTON DR
EB WB
I-94

THORNTON DR
EB WB
I-94



- INSTALL LEACHING BASIN
- 1 Ea Culv, Slip End Sect, 1 on 6, 15 inch, Longit
 - 50 Ft Sewer, CI A, 15 inch, Tr Det A
 - 1 Ea Sewer Tap, 15 inch
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

- INSTALL LEACHING BASIN
- 1 Ea Culv, Slip End Sect, 1 on 6, 15 inch, Longit
 - 58 Ft Sewer, CI A, 15 inch, Tr Det A
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

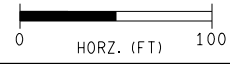
QUANTITIES THIS SHEET

JN 119672		
CAT 0001		
95	Cyd	Embankment, CIP
1501	Cyd	Granular Material, CI IIAA
2	Ea	Erosion Control, Inlet Protection, Fabric Drop
4	Ea	Erosion Control, Inlet Protection, Sediment Trap
1260	Ft	Erosion Control, Silt Fence
32	Ft	Permeable Runoff Structure
3128	Syd	Aggregate Base, 6 inch
276	Ton	Shoulder, CI II
1200	Ft	Underdrain, Subgrade, 10 inch, Modified
557	Ton	HMA, 3E3
372	Ton	HMA, 4E3
581	Ton	HMA, 4E30
279	Ton	HMA, 5E3
436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
1200	Ft	Cable Barrier, High Tension, Reconst
119	Ea	Cable Barrier, High Tension, Line Post Fdn
4838	Syd	Turf Establishment, Performance
2400	Ft	Shoulder Corrugations, Ground or Cut, HMA

SECTION 32
T55, R19W
LINCOLN TWP

SECTION 32
T55, R19W
LINCOLN TWP

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



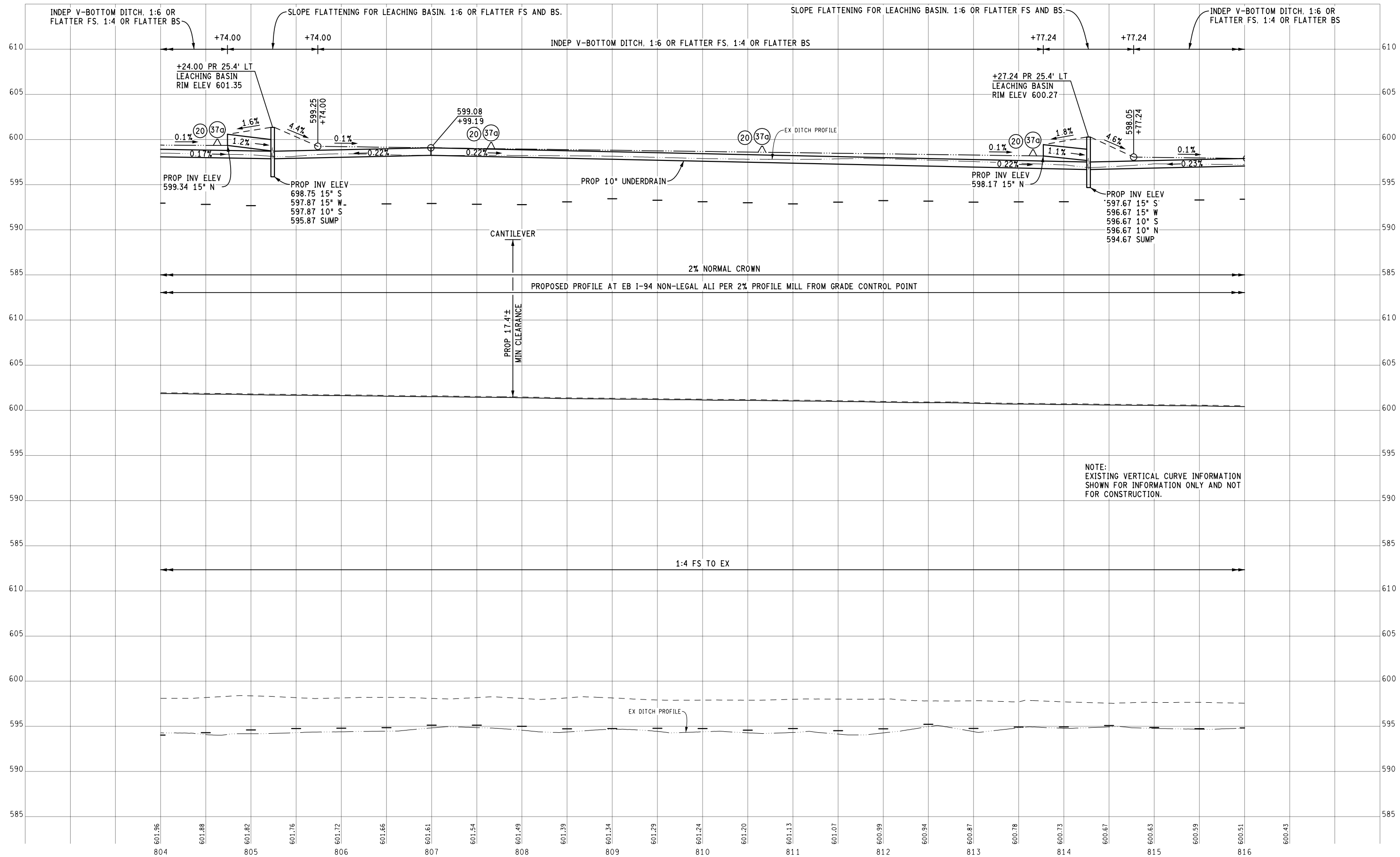
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

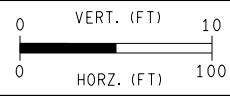
CS: 11015
JN: 119672A

CONSTRUCTION SHEET
STA 804+00 TO STA 816+00

DRAWING SHEET
194EB CON 019 SECT 1
99



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

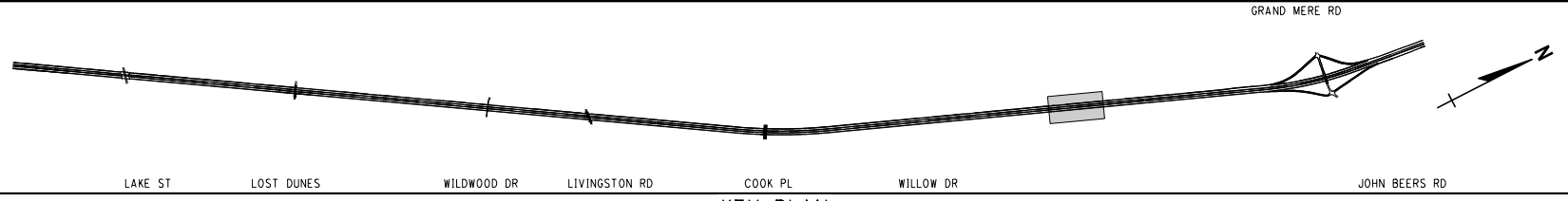


DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_I94EB_PROF_019.dgn

CS: 11015
 JN: 119672A

PROFILE SHEET
 STA 804+00 TO STA 816+00

DRAWING SHEET
 194EB PROF 019
 SECT 1
 100



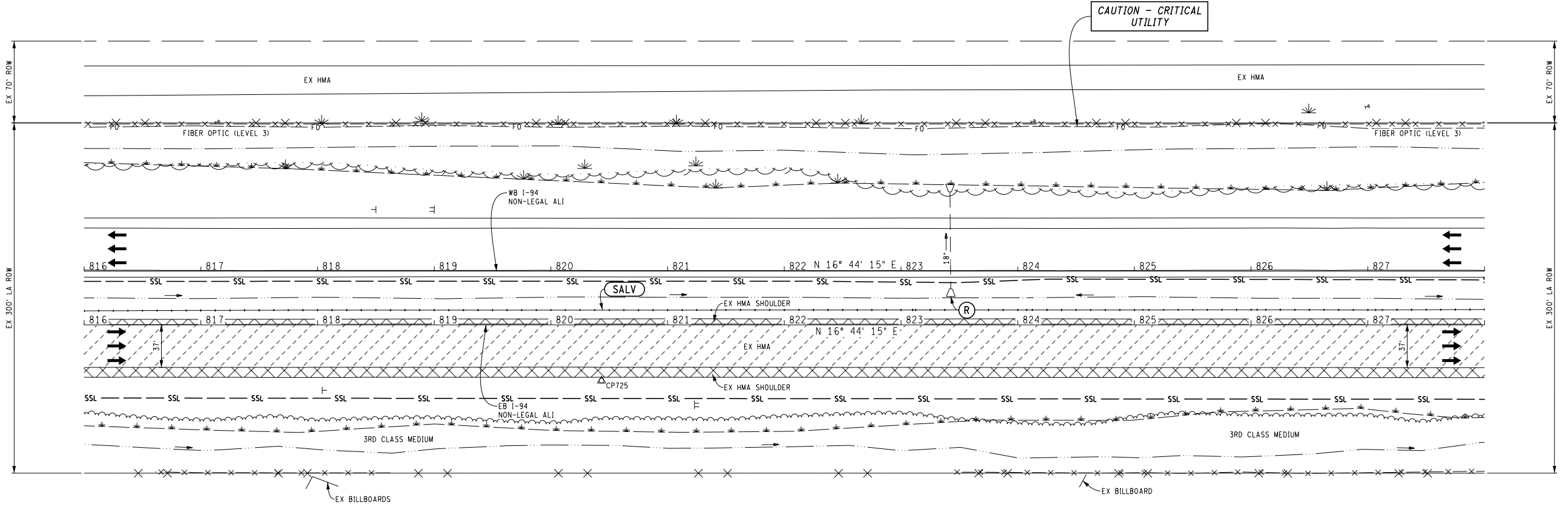
KEY PLAN
NO SCALE

SECTION 32
T55, R19W
LINCOLN TWP



THORNTON DR
WB I-94
EB I-94

THORNTON DR
WB I-94
EB I-94

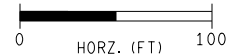


SECTION 32
T55, R19W
LINCOLN TWP

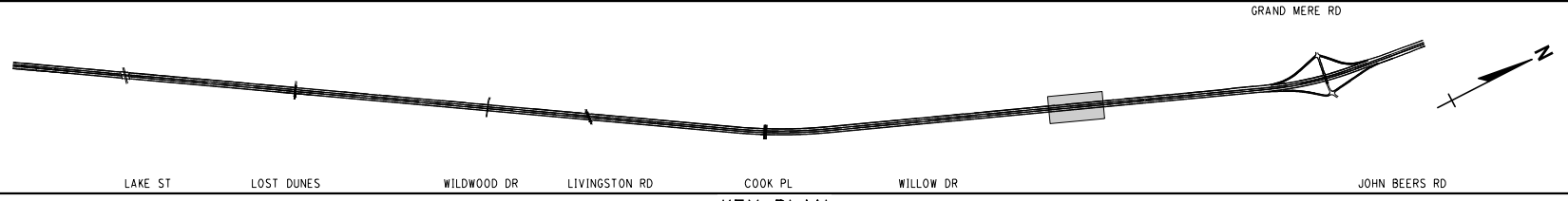
QUANTITIES THIS SHEET

JN 119672		
CAT 0001		
1	Ea	Culv. End. Rem. Less than 24 inch
1775	Syd	Pavt. Rem
1289	Cyd	Excavation, Earth
4934	Syd	Cold Milling HMA Surface
1200	Ft	Cable Barrier, High Tension, Salv
119	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem

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



DATE: 08/03/16	CS: 11015	REMOVAL SHEET STA 816+00 TO STA 828+00	DRAWING	SHEET
DESIGN UNIT: WILCOX	JN: 119672A		194EB REM 020	SECT 1 101
FILE: 119672_I94EB_REM_020.dgn				
TSC: KALAMAZOO				



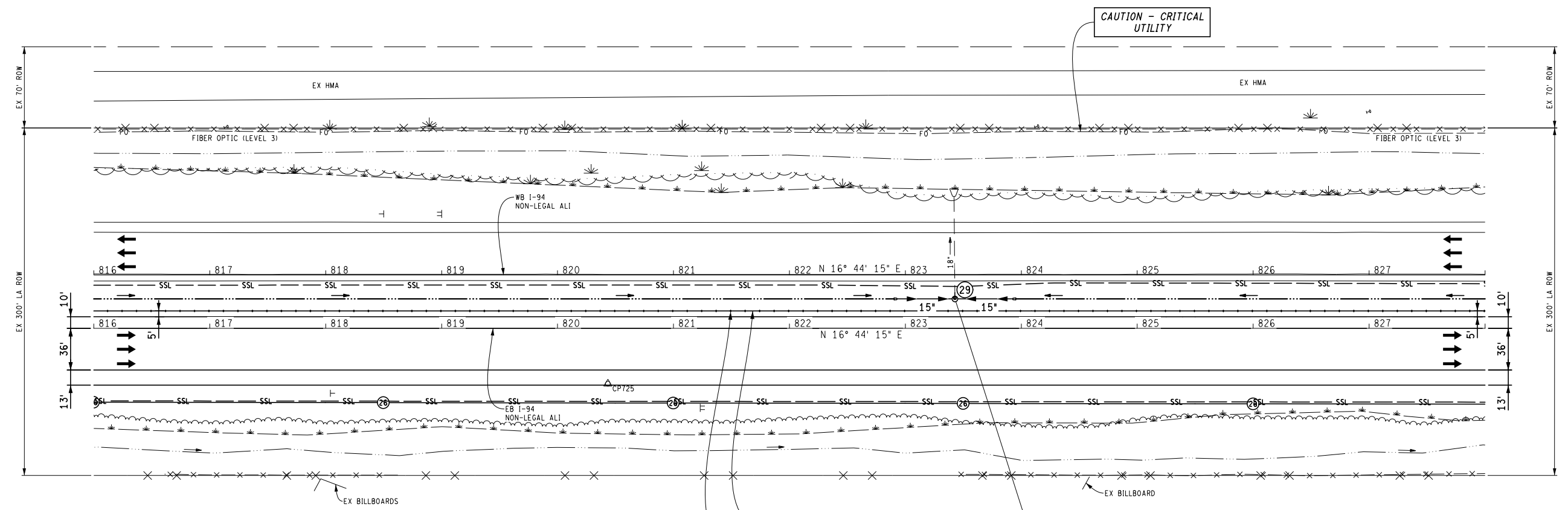
KEY PLAN
NO SCALE

SECTION 32
T55, R19W
LINCOLN TWP



THORNTON DR
EB WB I-94

THORNTON DR
EB WB I-94



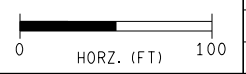
- INSTALL LEACHING BASIN
- 1 Ea Culv. Slp End Sect. 1 on 6. 15 inch. Longit
 - 100 Ft Sewer, CI A, 15 inch, Tr Det A
 - 4 Ft Sewer, CI A, 18 inch, Tr Det A
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

SECTION 32
T55, R19W
LINCOLN TWP

QUANTITIES THIS SHEET

JN 119672		CAT 0001	
109	Cyd	Embankment, CIP	
2107	Cyd	Granular Material, CI IIAA	
1	Ea	Erosion Control, Inlet Protection, Fabric Drop	
5	Ea	Erosion Control, Inlet Protection, Sediment Trap	
1200	Ft	Erosion Control, Silt Fence	
40	Ft	Permeable Runoff Structure	
3128	Syd	Aggregate Base, 6 inch	
276	Ton	Shoulder, CI II	
745	Ft	Underdrain, Subgrade, 10 inch, Modified	
557	Ton	HMA, 3E3	
372	Ton	HMA, 4E3	
581	Ton	HMA, 4E30	
279	Ton	HMA, 5E3	
436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)	
1200	Ft	Cable Barrier, High Tension, Reconst	
119	Ea	Cable Barrier, High Tension, Line Post Fdn	
5059	Syd	Turf Establishment, Performance	
2400	Ft	Shoulder Corrugations, Ground or Cut, HMA	

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

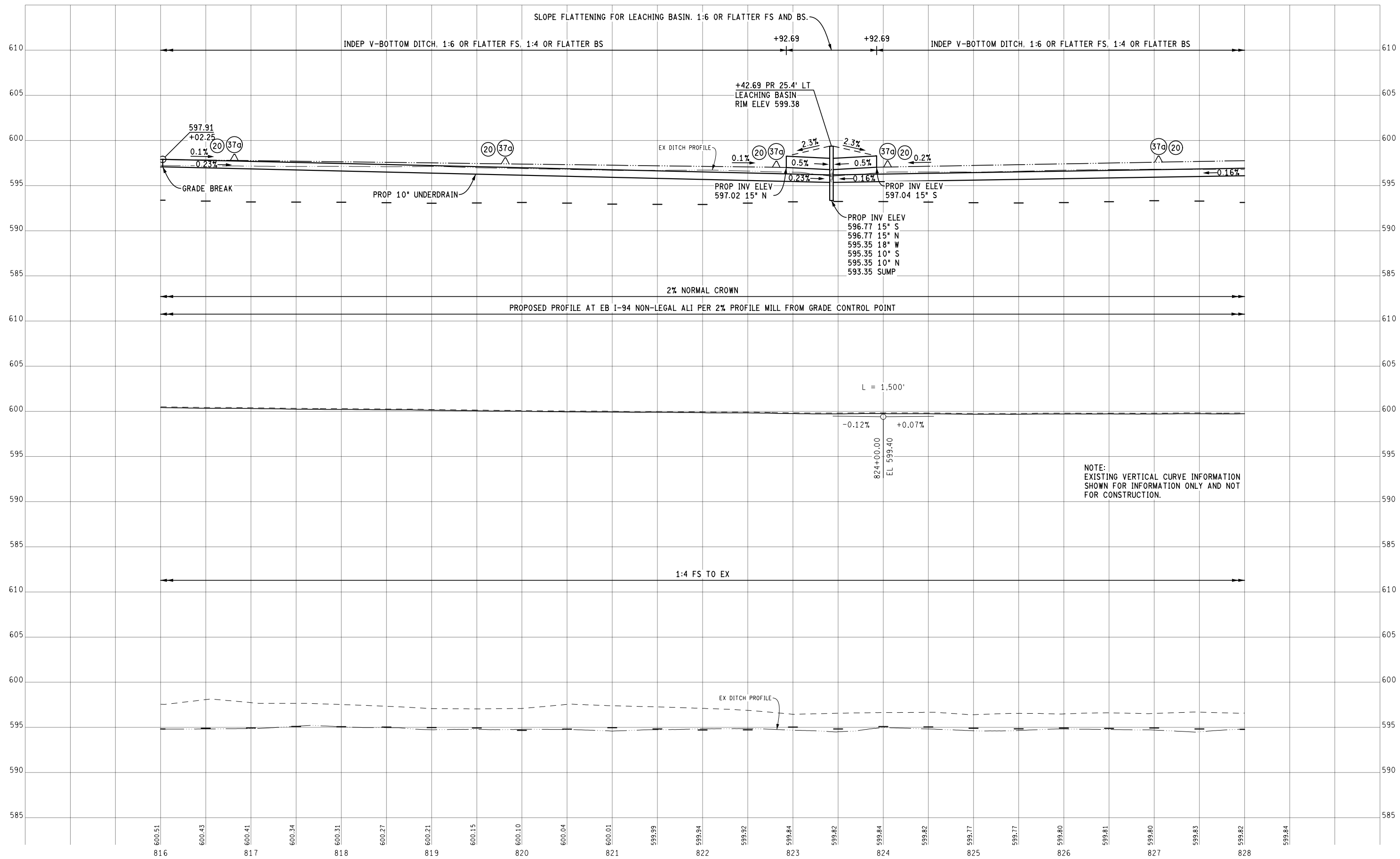


FILE: 119672_I94EB_CON_020.dgn

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DESIGN UNIT: WILCOX
TSC: KALAMAZOO

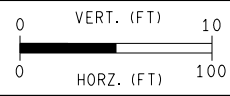
CS: 11015
JN: 119672A

CONSTRUCTION SHEET		DRAWING	SHEET
STA 816+00 TO STA 828+00		194EB CON 020	SECT 1 102



NOTE:
EXISTING VERTICAL CURVE INFORMATION
SHOWN FOR INFORMATION ONLY AND NOT
FOR CONSTRUCTION.

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

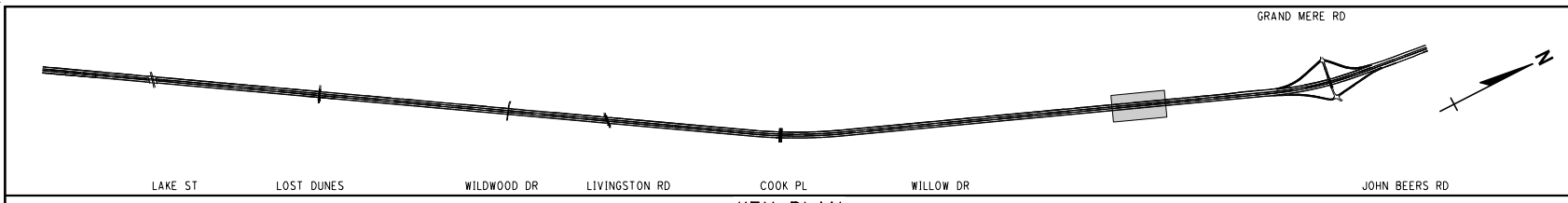


DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_194EB_PROF_020.dgn

CS: 11015
 JN: 119672A

PROFILE SHEET
 STA 816+00 TO STA 828+00

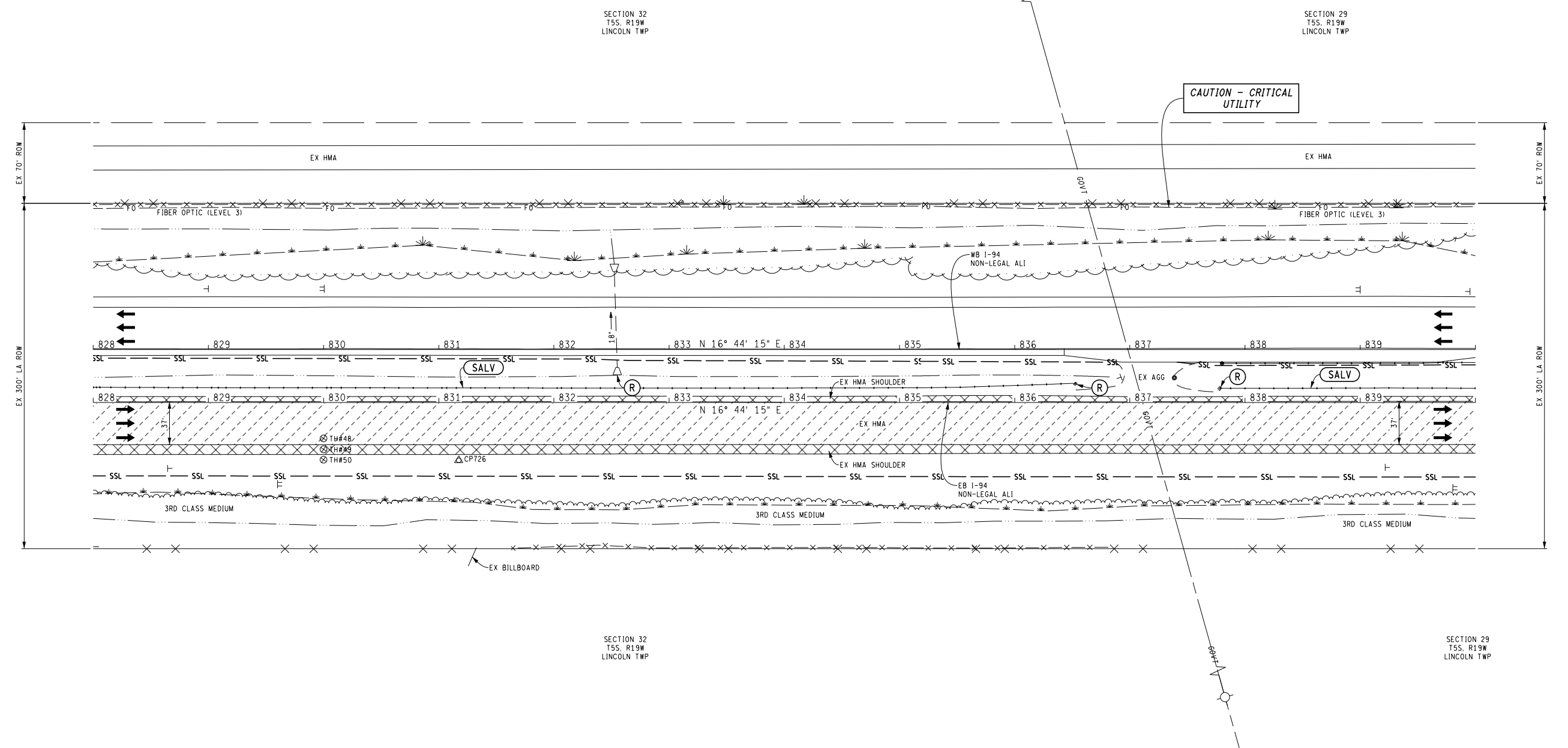
DRAWING SHEET
 194EB PROF 020
 SECT 103



KEY PLAN
NO SCALE

THORNTON DR
WB
I-94

THORNTON DR
WB
I-94

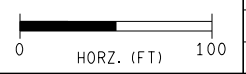


CAUTION - CRITICAL UTILITY

QUANTITIES THIS SHEET

JN 119672		CAT 0001	
1	Ea	Culv. End. Rem. Less than 24 inch	
1719	Syd	Pavt. Rem	
1257	Cyd	Excavation, Earth	
4934	Syd	Cold Milling HMA Surface	
1074	Ft	Cable Barrier, High Tension, Salv	
110	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem	
2	Ea	Cable Barrier, High Tension, End Term Fdn, Rem	

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



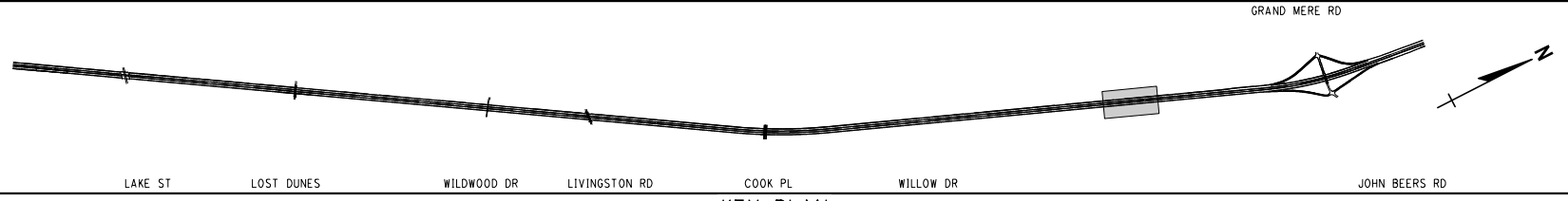
FILE: 119672_194EB_REM_021.dgn

DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

REMOVAL SHEET
STA 828+00 TO STA 840+00

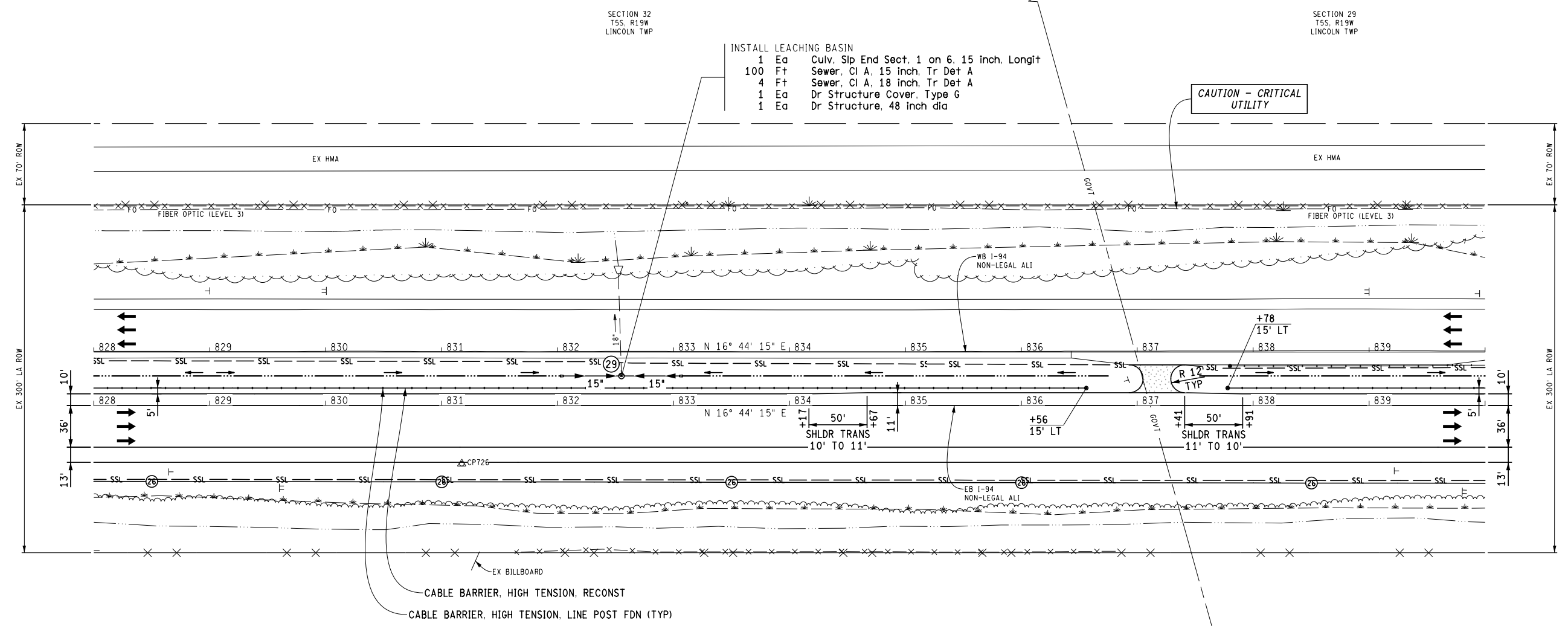
DRAWING SHEET
194EB REM 021 SECT 1
104



KEY PLAN
NO SCALE

THORNTON DR
EB WB
I-94

THORNTON DR
EB WB
I-94



INSTALL LEACHING BASIN
1 Ea Culv, Slp End Sect, 1 on 6, 15 inch, Longit
100 Ft Sewer, CI A, 15 inch, Tr Det A
4 Ft Sewer, CI A, 18 inch, Tr Det A
1 Ea Dr Structure Cover, Type G
1 Ea Dr Structure, 48 inch dia

CAUTION - CRITICAL UTILITY

EX 70' ROW
EX 300' LA ROW

EX 70' ROW
EX 300' LA ROW

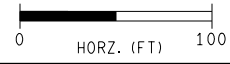
SECTION 32
T5S, R19W
LINCOLN TWP

SECTION 29
T5S, R19W
LINCOLN TWP

QUANTITIES THIS SHEET

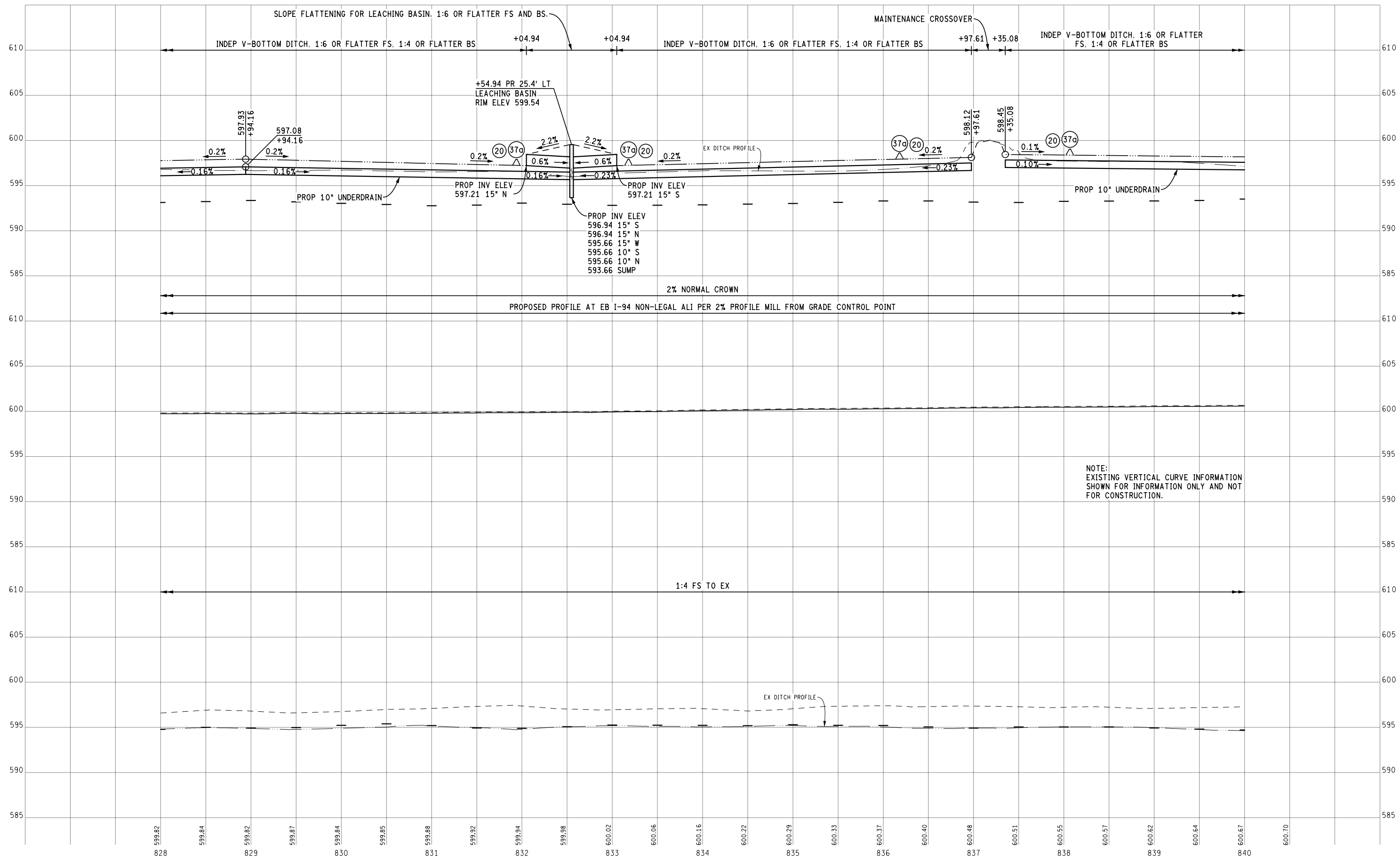
JN 119672		
CAT 0001		
106	Cyd	Embankment, CIP
1539	Cyd	Granular Material, CI IIAA
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
4	Ea	Erosion Control, Inlet Protection, Sediment Trap
1200	Ft	Erosion Control, Silt Fence
32	Ft	Permeable Runoff Structure
52	Cyd	Subbase, CIP
3875	Syd	Aggregate Base, 6 inch
284	Ton	Shoulder, CI II
1110	Ft	Underdrain, Subgrade, 10 inch, Modified
563	Ton	HMA, 3E3
376	Ton	HMA, 4E3
581	Ton	HMA, 4E30
282	Ton	HMA, 5E3
31	Ton	HMA Approach
436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
1074	Ft	Cable Barrier, High Tension, Reconst
111	Ea	Cable Barrier, High Tension, Line Post Fdn
2	Ea	Cable Barrier, High Tension, End Term Fdn
4816	Syd	Turf Establishment, Performance
2400	Ft	Shoulder Corrugations, Ground or Cut, HMA

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

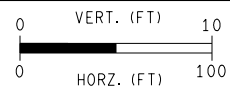


DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
TSC: KALAMAZOO	FILE: 119672_I94EB_CON_021.dgn

CONSTRUCTION SHEET		DRAWING	SHEET
STA 828+00 TO STA 840+00		194EB	SECT 1
		CON	105
		021	



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

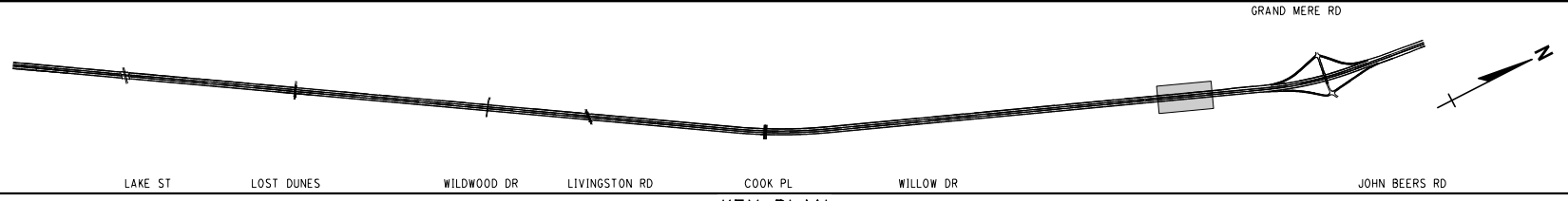


DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_194EB_PROF_021.dgn

CS: 11015
 JN: 119672A

PROFILE SHEET
 STA 828+00 TO STA 840+00

DRAWING SHEET
 194EB PROF 021
 SECT 1
 106



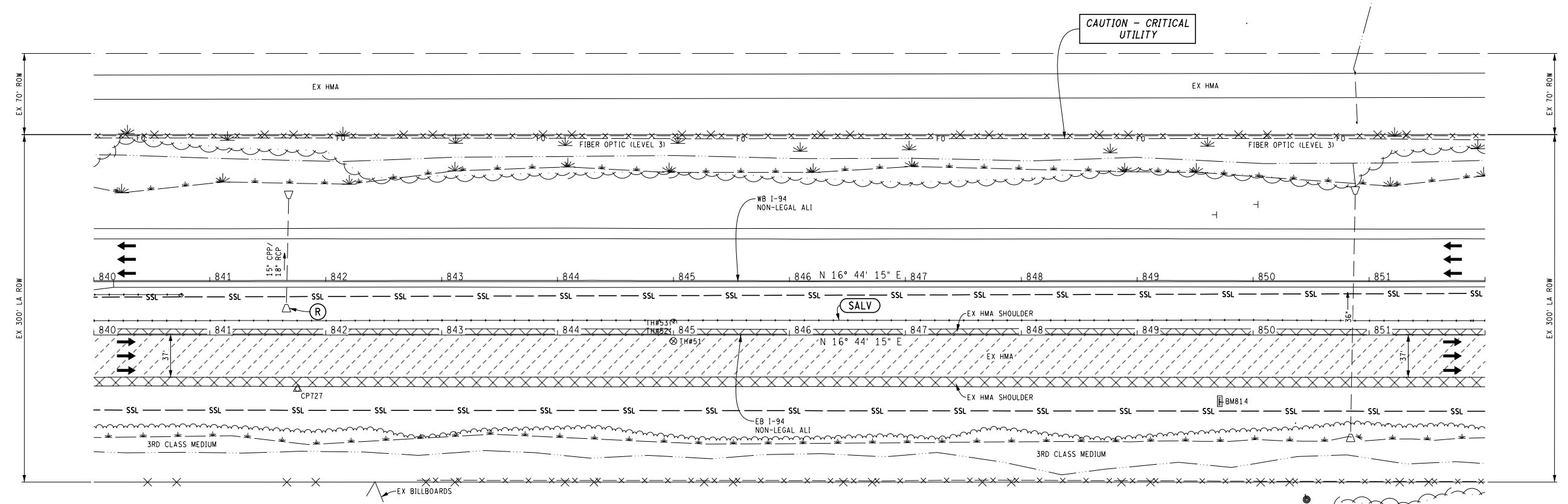
KEY PLAN
NO SCALE

SECTION 29
T5S, R19W
LINCOLN TWP



THORNTON DR
WB
I-94

THORNTON DR
WB
I-94

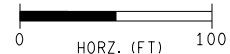


SECTION 29
T5S, R19W
LINCOLN TWP

QUANTITIES THIS SHEET

JN 119672		CAT 0001	
1	Ea	Culv. End. Rem. Less than 24 inch	
1719	Syd	Pavt. Rem	
998	Cyd	Excavation, Earth	
4934	Syd	Cold Milling HMA Surface	
1200	Ft	Cable Barrier, High Tension, Salv	
119	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem	

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



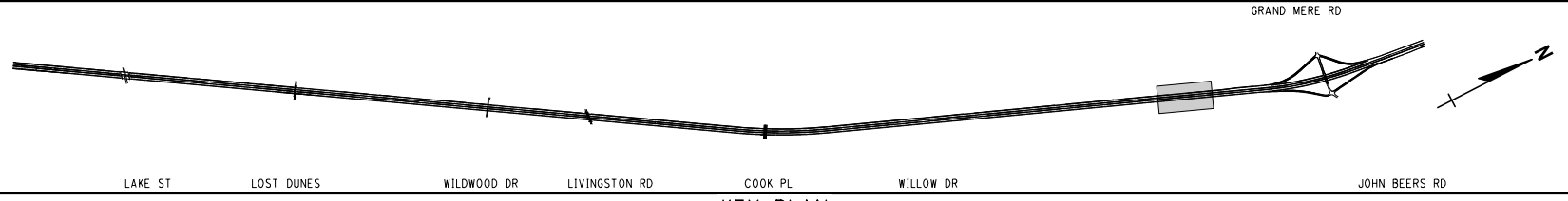
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

REMOVAL SHEET
STA 840+00 TO STA 852+00

DRAWING SHEET
194EB REM 022
SECT 1
107

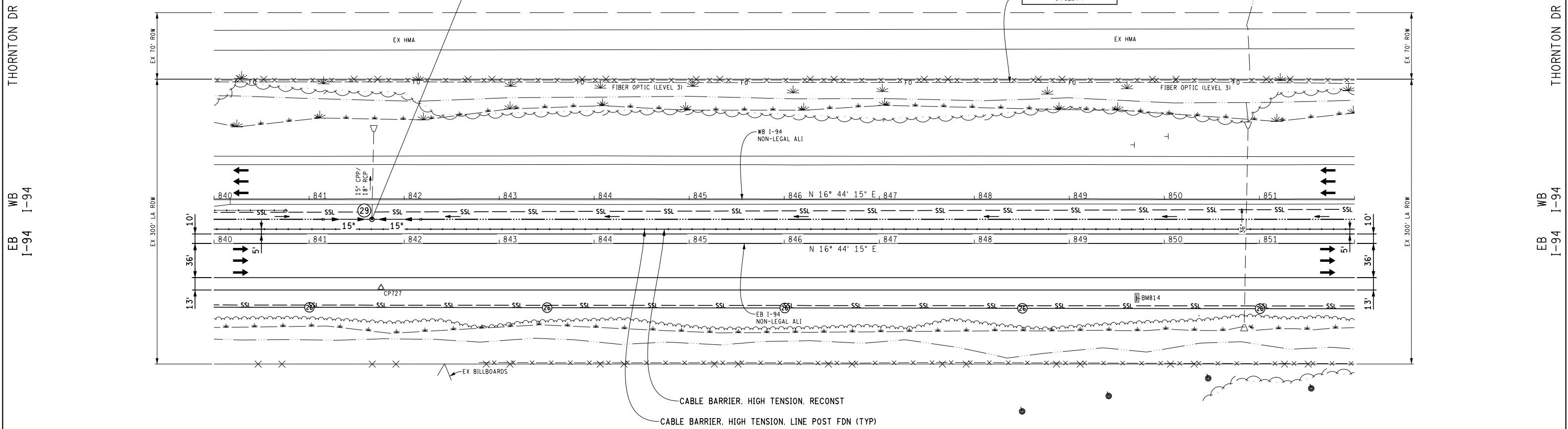


KEY PLAN
NO SCALE

SECTION 29
T55, R19W
LINCOLN TWP

- INSTALL LEACHING BASIN
- 1 Ea Culv. Slip End Sect. 1 on 6, 15 inch, Longit
 - 100 Ft Sewer, Cl A, 15 inch, Tr Det A
 - 1 Ea Sewer Tap, 15 inch
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

CAUTION - CRITICAL UTILITY

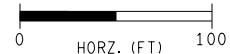


SECTION 29
T55, R19W
LINCOLN TWP

QUANTITIES THIS SHEET

QTY	UNIT	DESCRIPTION
JN 119672		
CAT 0001		
131	Cyd	Embankment, CIP
1456	Cyd	Granular Material, CI IIAA
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
5	Ea	Erosion Control, Inlet Protection, Sediment Trap
1200	Ft	Erosion Control, Silt Fence
40	Ft	Permeable Runoff Structure
3128	Syd	Aggregate Base, 6 inch
276	Ton	Shoulder, CI II
1200	Ft	Underdrain, Subgrade, 10 inch, Modified
557	Ton	HMA, 3E3
372	Ton	HMA, 4E3
581	Ton	HMA, 4E30
279	Ton	HMA, 5E3
436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
1200	Ft	Cable Barrier, High Tension, Reconst
119	Ea	Cable Barrier, High Tension, Line Post Fdn
4843	Syd	Turf Establishment, Performance
2400	Ft	Shoulder Corrugations, Ground or Cut, HMA

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



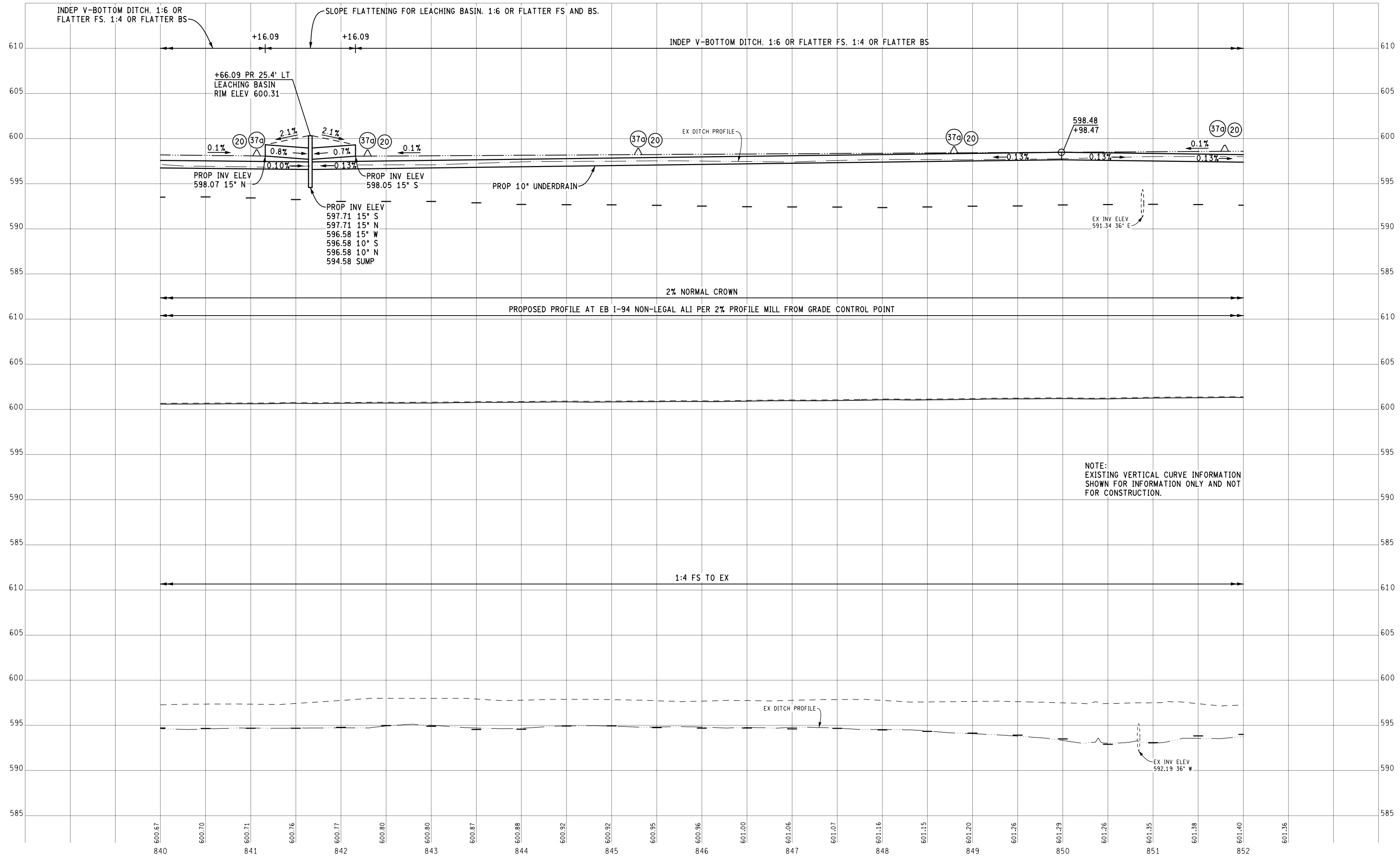
FILE: 119672_I94EB_CON_022.dgn

DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

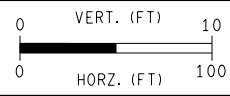
CS: 11015
JN: 119672A

CONSTRUCTION SHEET
STA 840+00 TO STA 852+00

DRAWING SHEET
194EB CON 022 SECT 1
108



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



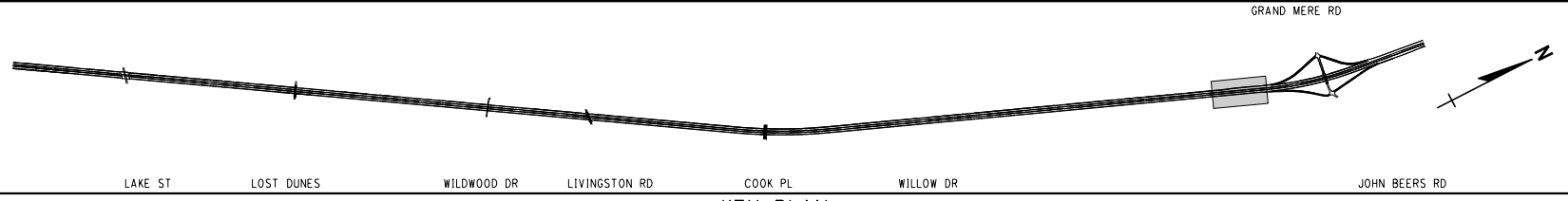
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

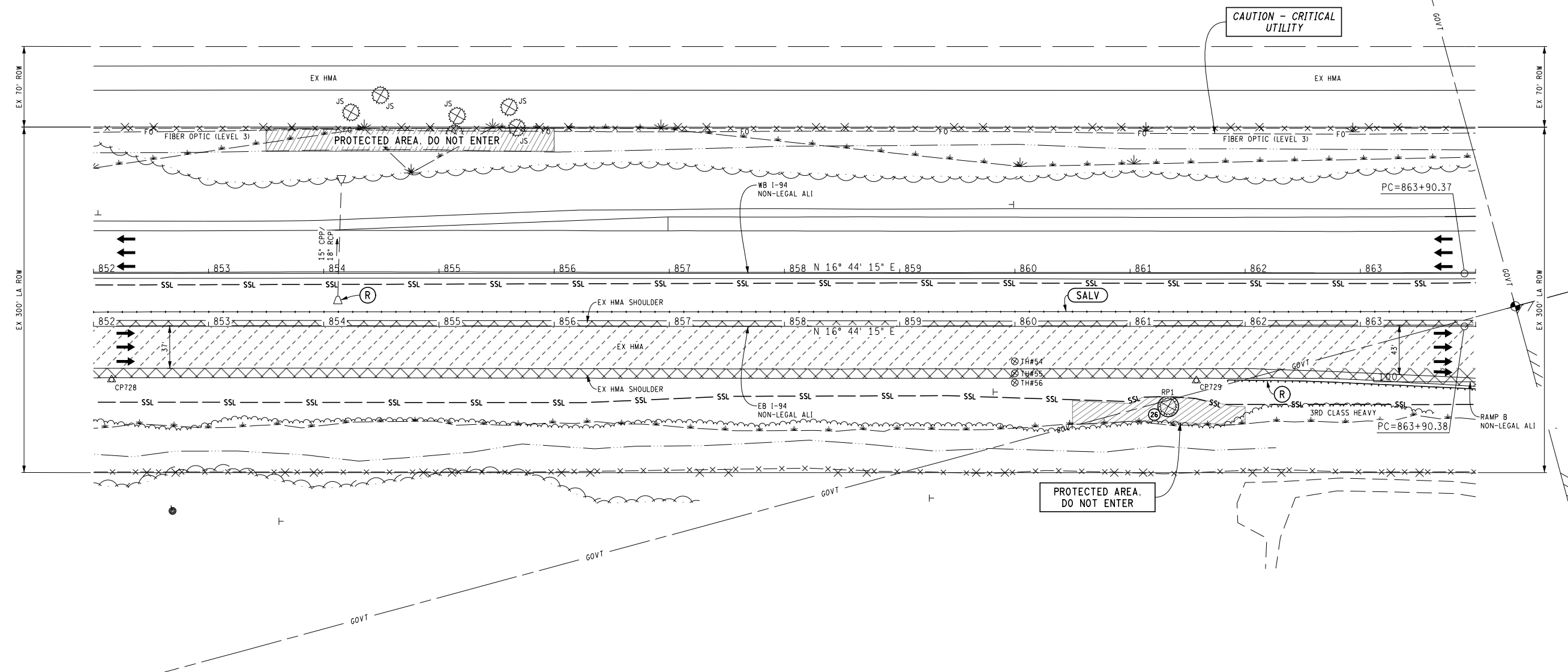
PROFILE SHEET
STA 840+00 TO STA 852+00

DRAWING SHEET
194EB PROF 022
SECT 1
109



KEY PLAN
NO SCALE

SECTION 29
T5S, R19W
LINCOLN TWP



SECTION 29
T5S, R19W
LINCOLN TWP

CAUTION - CRITICAL
UTILITY

PROTECTED AREA,
DO NOT ENTER

QUANTITIES THIS SHEET

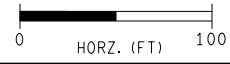
JN 119672
CAT 0001

1	Ea	Culv. End, Rem, Less than 24 inch
216	Ft	Guardrail, Rem
1765	Syd	Pavt, Rem
1505	Cyd	Excavation, Earth
4969	Syd	Cold Milling HMA Surface
1200	Ft	Cable Barrier, High Tension, Salv
119	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem

THORNTON DR
WB I-94

THORNTON DR
WB I-94
RAMP B

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



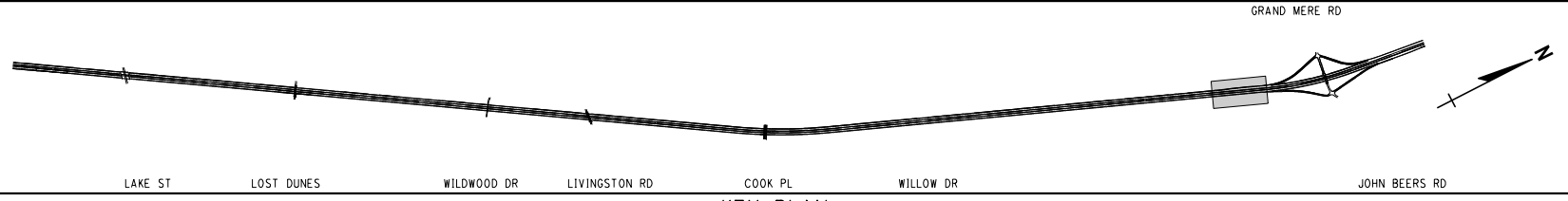
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

REMOVAL SHEET
STA 852+00 TO STA 864+00

DRAWING SHEET
194EB REM 023
SECT 1
110

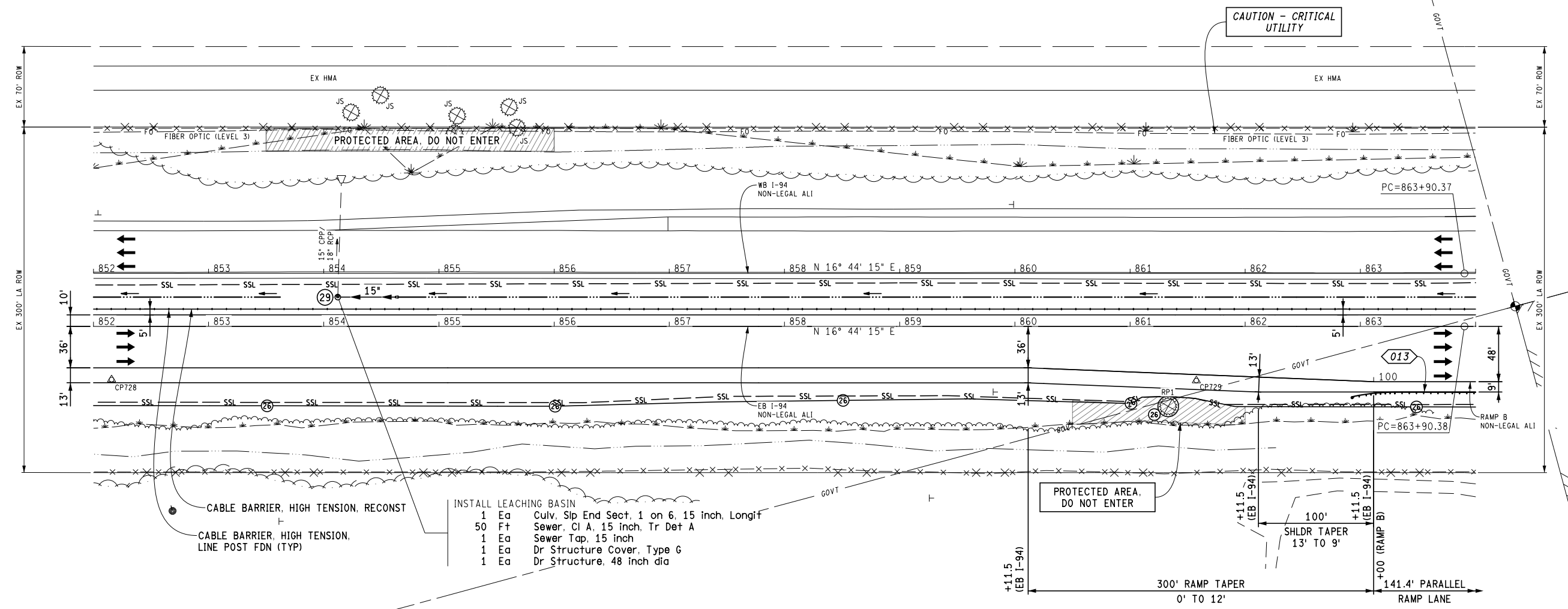


KEY PLAN
NO SCALE

SECTION 29
T5S, R19W
LINCOLN TWP

THORNTON DR
EB I-94 WB I-94

THORNTON DR
RAMP B I-94 WB I-94



- INSTALL LEACHING BASIN
- 1 Ea Culv, Slip End Sect, 1 on 6, 15 inch, Longif
 - 50 Ft Sewer, CI A, 15 inch, Tr Det A
 - 1 Ea Sewer Tap, 15 inch
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

CAUTION - CRITICAL UTILITY

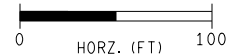
PROTECTED AREA, DO NOT ENTER

QUANTITIES THIS SHEET

NO.	DATE	AUTH	DESCRIPTION
JN 119672			
CAT 0001			
322	Cyd		Embankment, CIP
1501	Cyd		Granular Material, CI IIAA
1	Ea		Erosion Control, Inlet Protection, Fabric Drop
3	Ea		Erosion Control, Inlet Protection, Sediment Trap
1250	Ft		Erosion Control, Silt Fence
24	Ft		Permeable Runoff Structure
404	Cyd		Subbase, CIP
3390	Syd		Aggregate Base, 6 inch
298	Ton		Shoulder, CI II
1200	Ft		Underdrain, Subgrade, 10 inch, Modified
604	Ton		HMA, 3E3
403	Ton		HMA, 4E3
581	Ton		HMA, 4E30
302	Ton		HMA, 5E3
24	Ton		HMA, 5E30
436	Ton		HMA Gap-Graded Superpave (3/8 inch Nominal Max)
1200	Ft		Cable Barrier, High Tension, Reconst
119	Ea		Cable Barrier, High Tension, Line Post Fdn
4901	Syd		Turf Establishment, Performance
2400	Ft		Shoulder Corrugations, Ground or Cut, HMA

SECTION 29
T5S, R19W
LINCOLN TWP

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



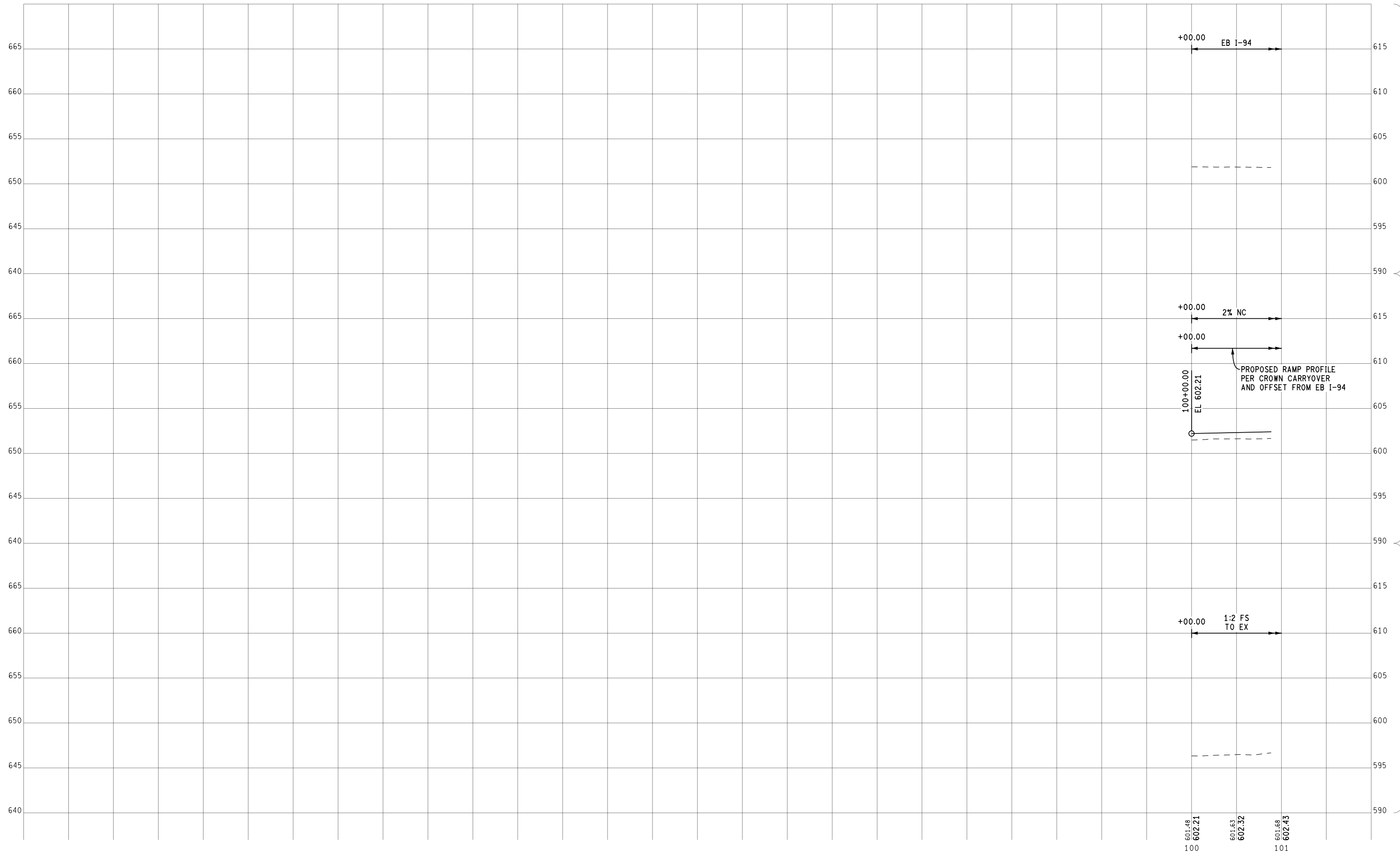
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DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

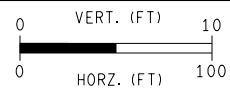
CS: 11015
JN: 119672A

CONSTRUCTION SHEET
STA 852+00 TO STA 864+00

DRAWING SHEET
194EB CON 023
SECT 1
111



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



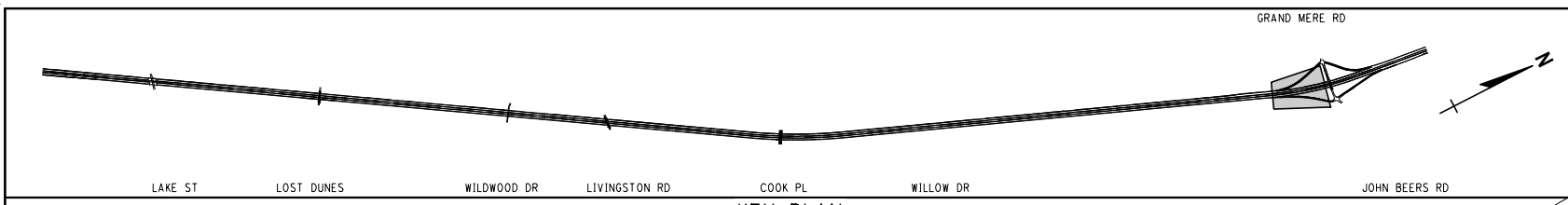
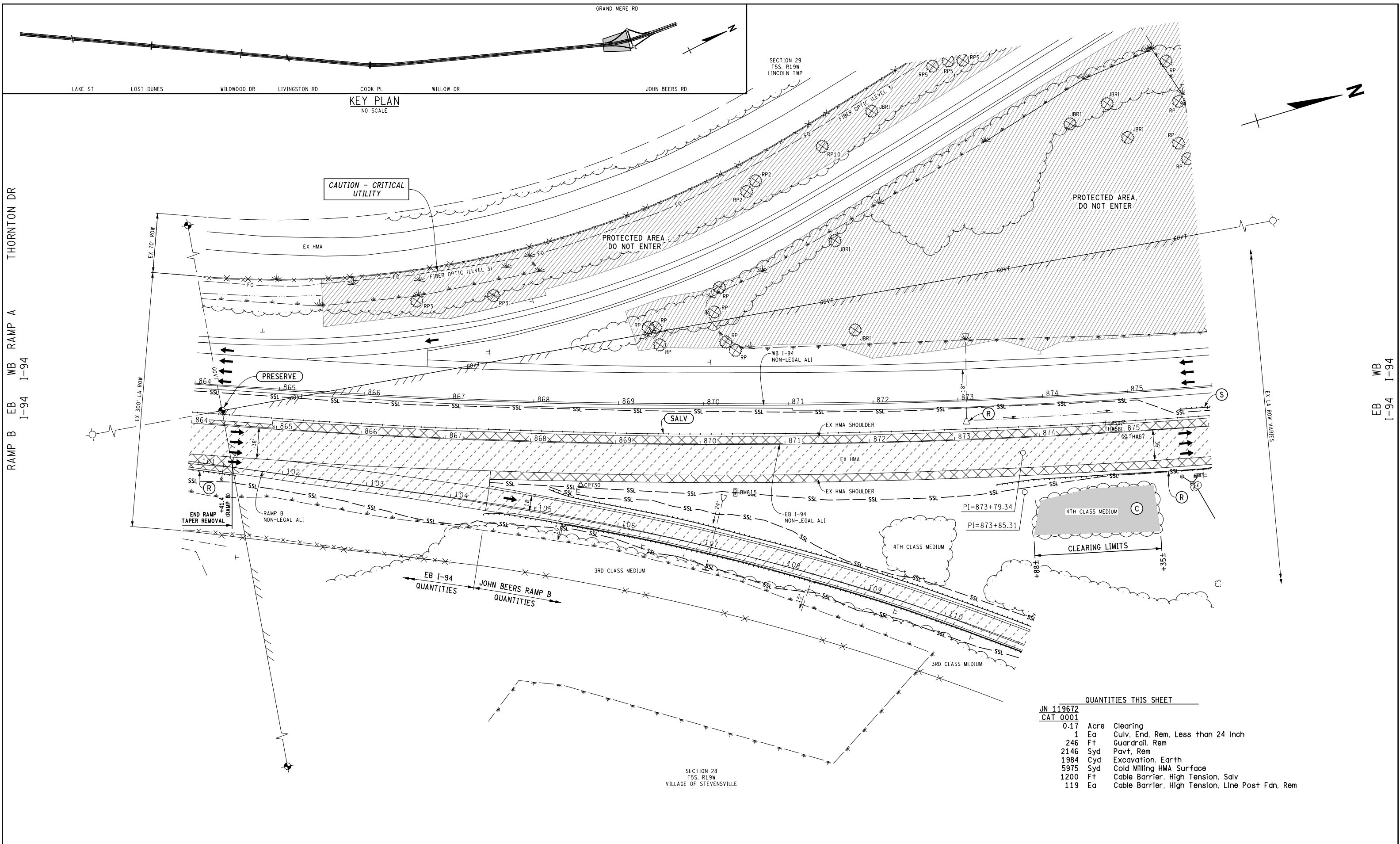
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DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO

CS: 11015
 JN: 119672A

RAMP B PROFILE SHEET
 STA 100+00 TO STA 100+88

DRAWING SHEET
 RAMPB PROF 001
 SECT 1
 113



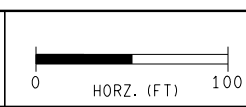
RAMP B EB WB RAMP A
I-94 I-94

RAMP B EB WB RAMP A
I-94 I-94

QUANTITIES THIS SHEET

JN 119672	0.17	Ac	Clearing
CAT 0001	1	Ea	Culv. End. Rem. Less than 24 inch
	246	Ft	Guardrail, Rem
	2146	Syd	Pavt. Rem
	1984	Cyd	Excavation, Earth
	5975	Syd	Cold Milling HMA Surface
	1200	Ft	Cable Barrier, High Tension, Salv
	119	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem

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



SECTION 28
T5S, R19W
VILLAGE OF STEVENSVILLE

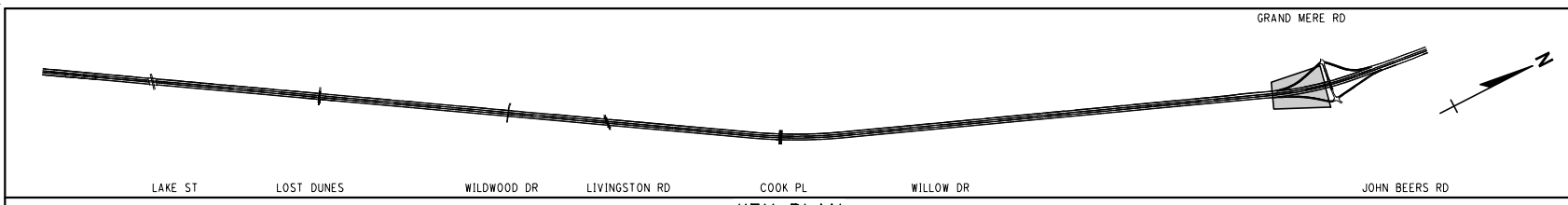
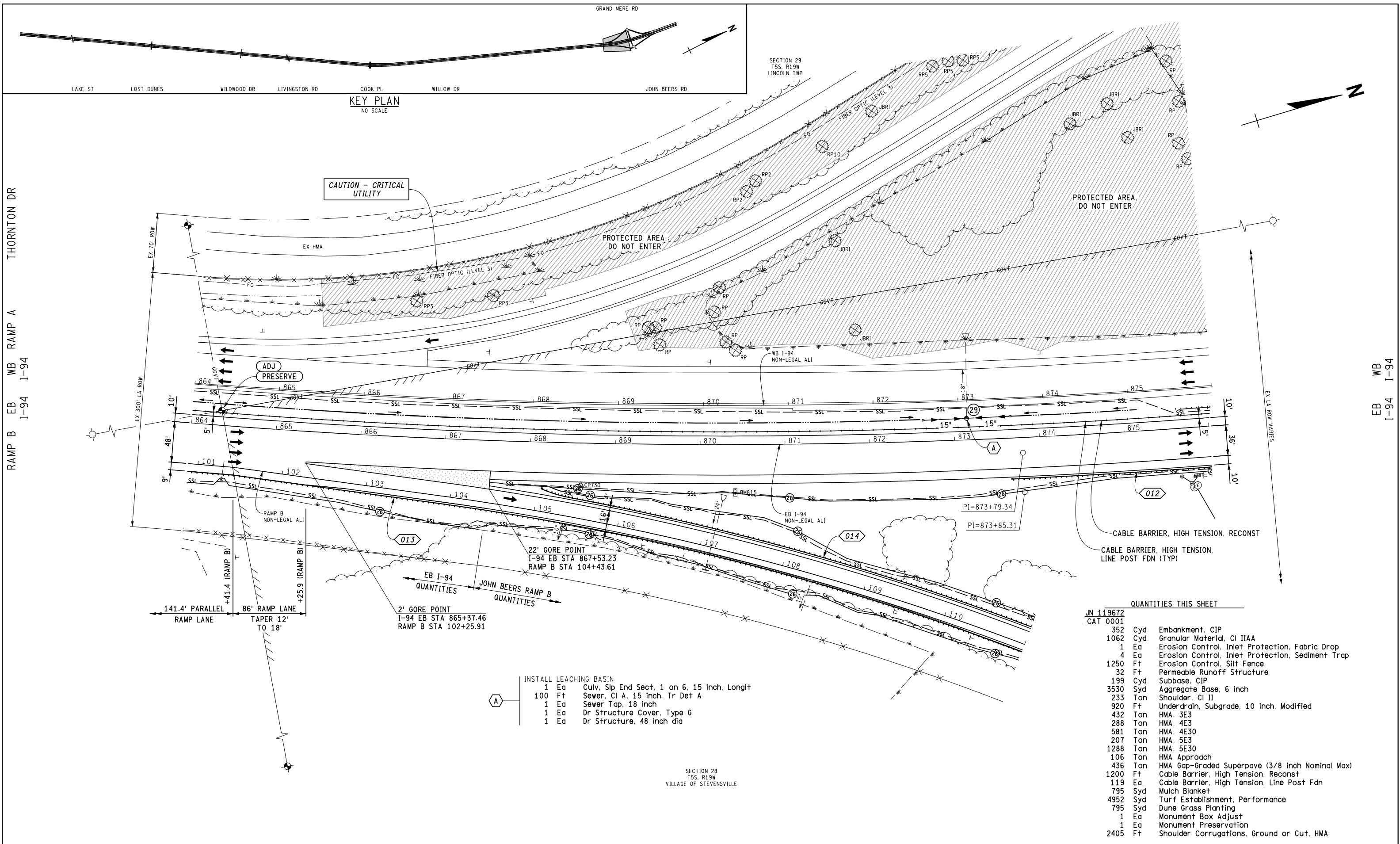
FILE: 119672_194EB_REM_024.dgn

DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

REMOVAL SHEET
STA 864+00 TO STA 876+00

DRAWING SHEET
194EB REM 024
SECT 1
114



THORNTON DR
 RAMP B EB WB RAMP A
 I-94 I-94

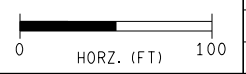
EX LA ROW VARIES
 EB WB
 I-94 I-94

- INSTALL LEACHING BASIN
- 1 Ea Culv. Slip End Sect. 1 on 6, 15 inch. Longit
 - 100 Ft Sewer, CI A, 15 inch. Tr Det A
 - 1 Ea Sewer Tap, 18 inch
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

QUANTITIES THIS SHEET

QTY	UNIT	DESCRIPTION
JN 119672		
CAT 0001		
352	Cyd	Embankment, CIP
1062	Cyd	Granular Material, CI IIAA
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
4	Ea	Erosion Control, Inlet Protection, Sediment Trap
1250	Ft	Erosion Control, Silt Fence
32	Ft	Permeable Runoff Structure
199	Cyd	Subbase, CIP
3530	Syd	Aggregate Base, 6 inch
233	Ton	Shoulder, CI II
920	Ft	Underdrain, Subgrade, 10 inch, Modified
432	Ton	HMA, 3E3
288	Ton	HMA, 4E3
581	Ton	HMA, 4E30
207	Ton	HMA, 5E3
1288	Ton	HMA, 5E30
106	Ton	HMA Approach
436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
1200	Ft	Cable Barrier, High Tension, Reconst
119	Ea	Cable Barrier, High Tension, Line Post Fdn
795	Syd	Mulch Blanket
4952	Syd	Turf Establishment, Performance
795	Syd	Dune Grass Planting
1	Ea	Monument Box Adjust
1	Ea	Monument Preservation
2405	Ft	Shoulder Corrugations, Ground or Cut, HMA

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

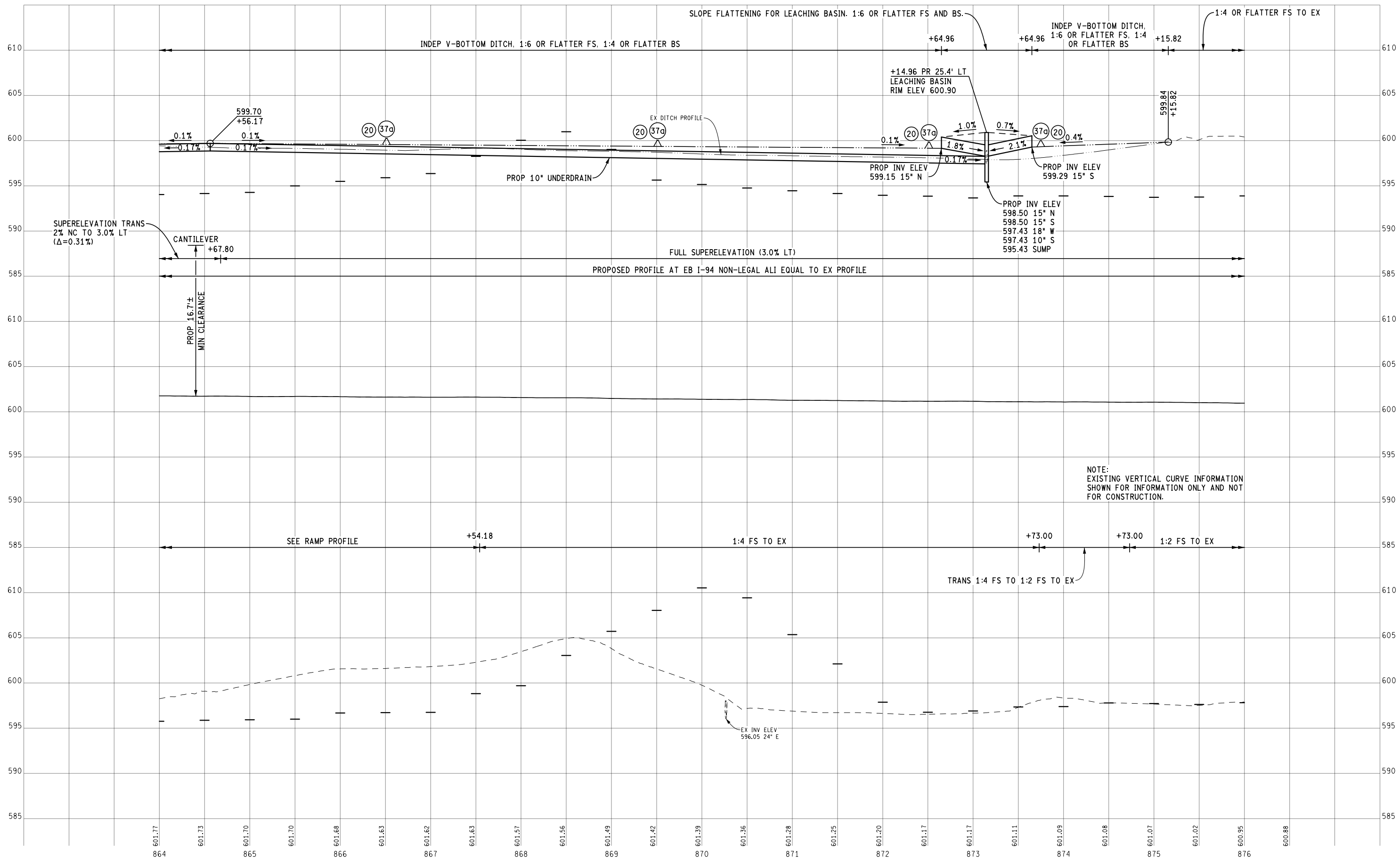


SECTION 28 T55, R19W VILLAGE OF STEVENSVILLE

DATE: 08/03/16 CS: 11015
 DESIGN UNIT: WILCOX JN: 119672A
 TSC: KALAMAZOO

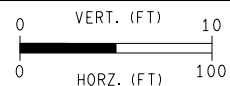
FILE: 119672_194EB_CON_024.dgn

CONSTRUCTION SHEET		DRAWING	SHEET
STA 864+00 TO STA 876+00		194EB CON 024	SECT 1 115



EX GROUND PROFILE 23' LT
 EX GROUND POINTS 173' LT
 PROP LT DITCH PROFILE
 EX GROUND PROFILE AT EB I-94 NON-LEGAL ALI
 APPROXIMATE PROFILE AT EB I-94 NON-LEGAL ALI
 EX GROUND PROFILE 66' RT
 EX GROUND POINTS 123' RT
 PROP RT DITCH PROFILE

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

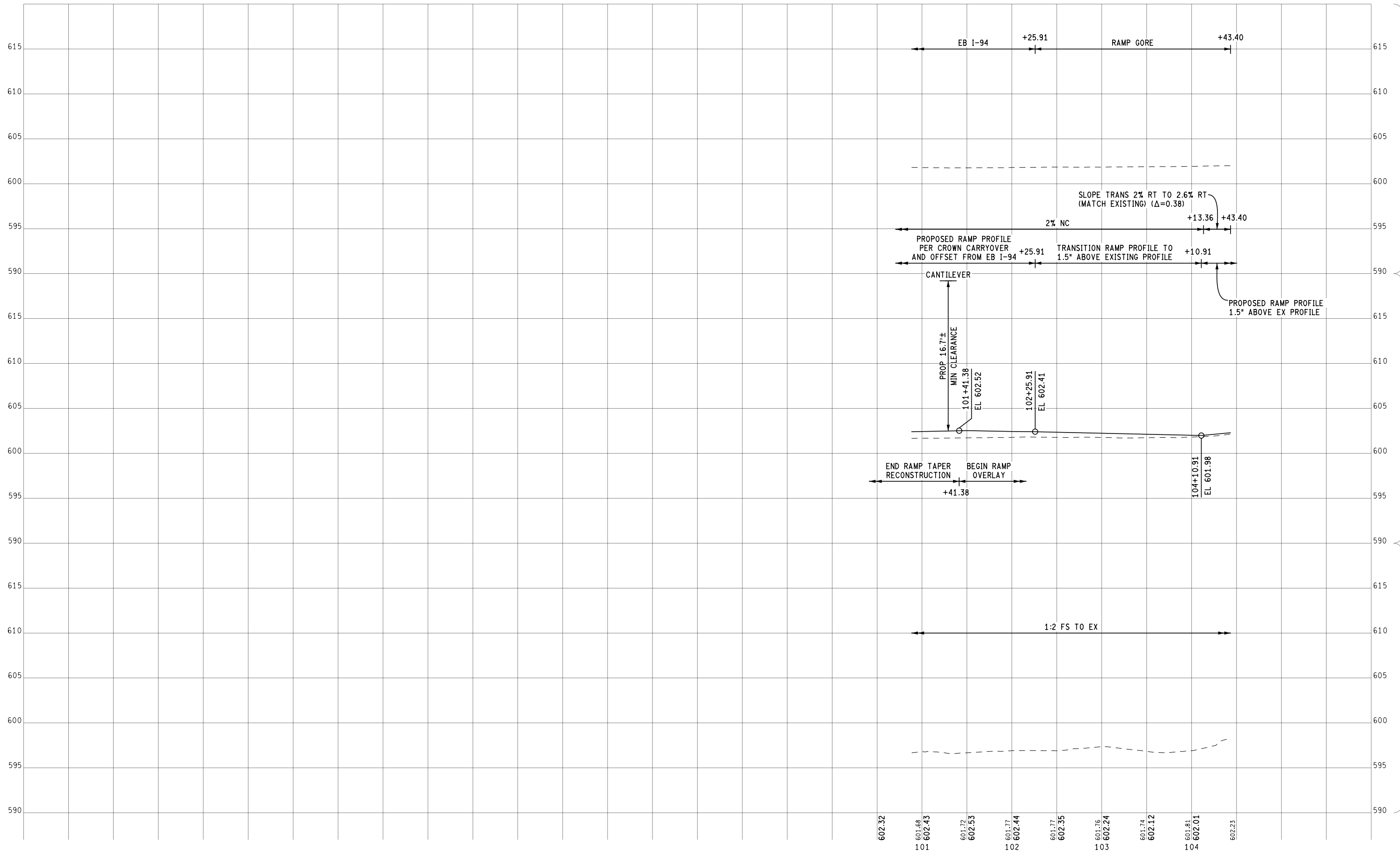


DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
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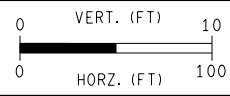
CS: 11015
 JN: 119672A

PROFILE SHEET
 STA 864+00 TO STA 876+00

DRAWING SHEET
 194EB PROF 024
 SECT 1
 116



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



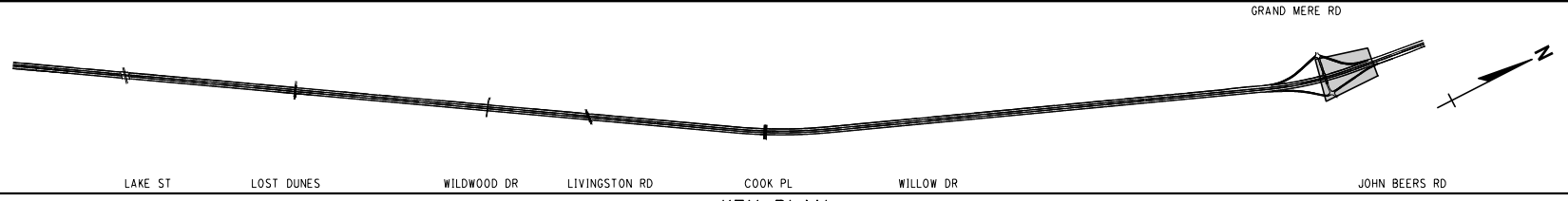
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DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO

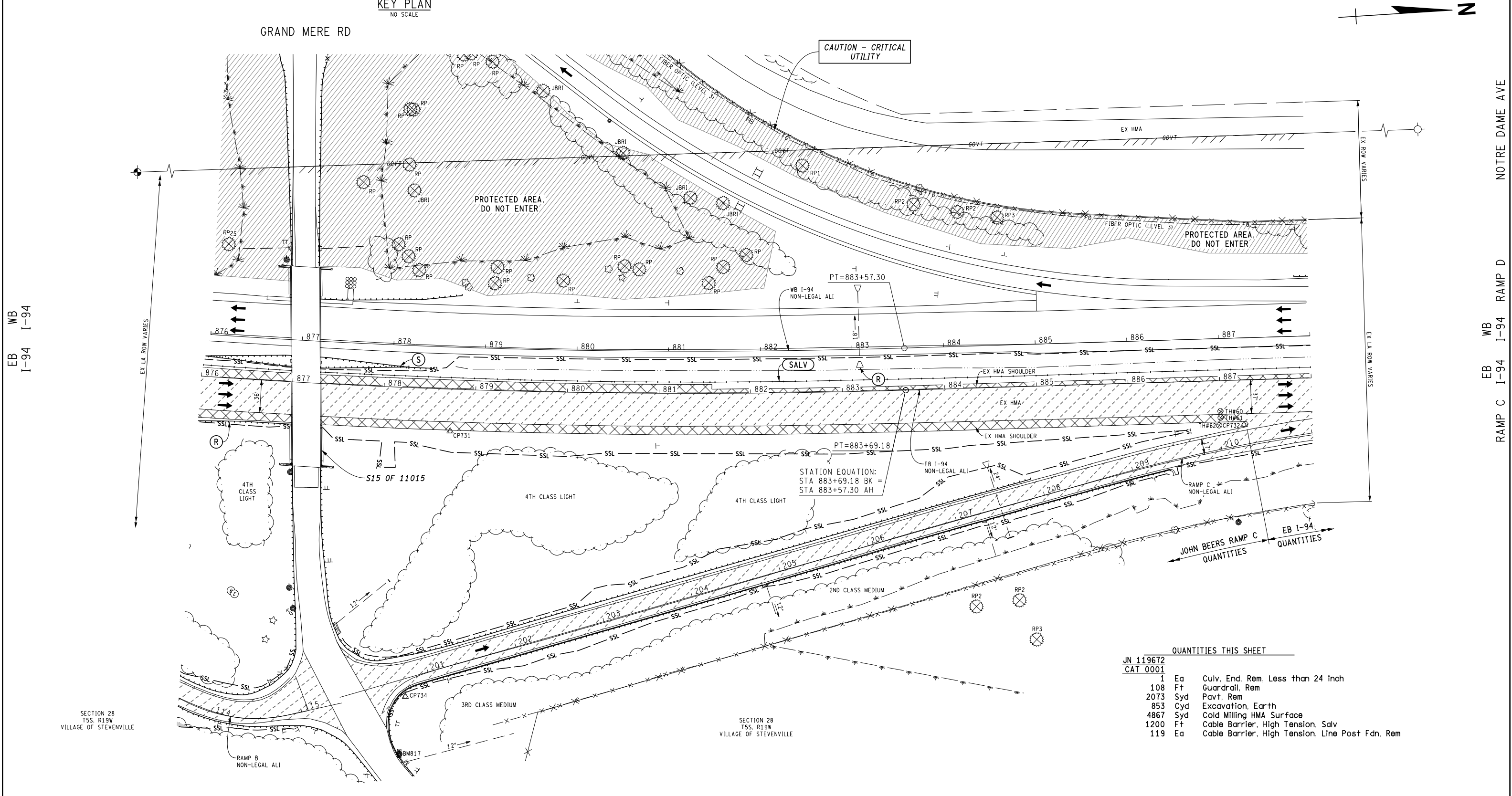
CS: 11015
 JN: 119672A

RAMP B PROFILE SHEET
 STA 100+88 TO STA 104+43

DRAWING SHEET
 RAMPB PROF 002
 SECT 1
 117



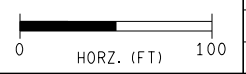
SECTION 29
T5S, R19W
LINCOLN TWP



QUANTITIES THIS SHEET

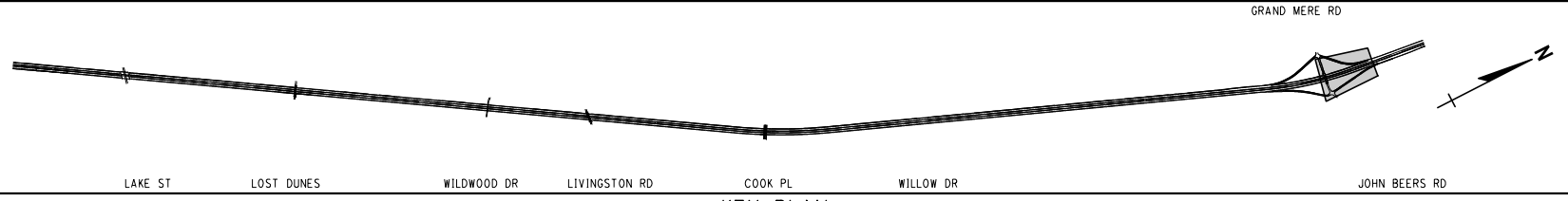
QTY	UNIT	DESCRIPTION
1	Ea	Culv. End, Rem, Less than 24 inch
108	Ft	Guardrail, Rem
2073	Syd	Pavt. Rem
853	Cyd	Excavation, Earth
4867	Syd	Cold Milling HMA Surface
1200	Ft	Cable Barrier, High Tension, Salv
119	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem

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



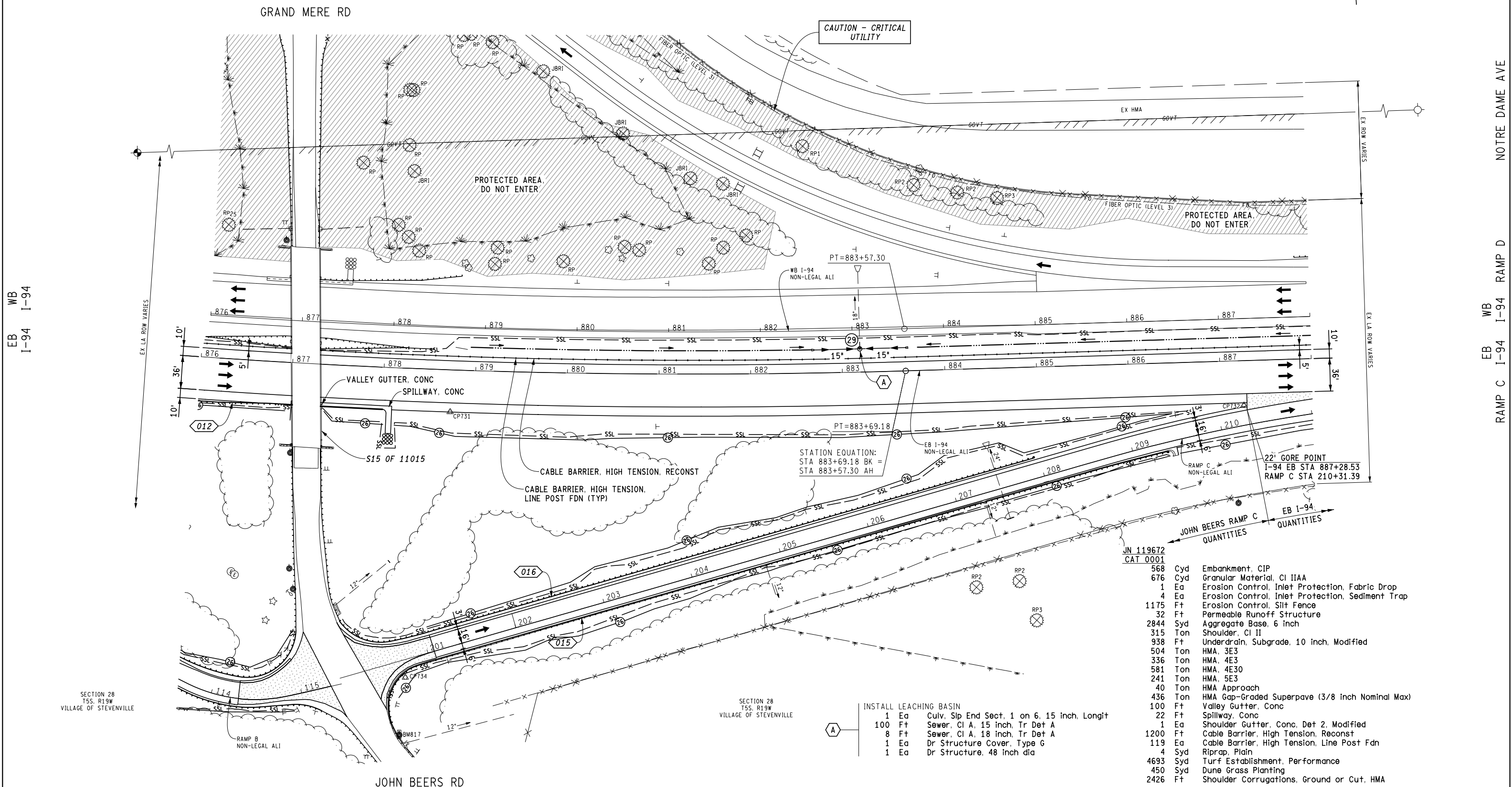
DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
TSC: KALAMAZOO	FILE: 119672_194EB_REM_025.dgn

REMOVAL SHEET		DRAWING	SHEET
STA 876+00 TO STA 888+00		194EB	SECT 1
		REM	118
		025	



SECTION 29
T5S, R19W
LINCOLN TWP

KEY PLAN
NO SCALE



EB I-94
WB I-94

NOTRE DAME AVE
RAMP D
WB I-94
EB I-94
RAMP C

SECTION 28
T5S, R19W
VILLAGE OF STEVENVILLE

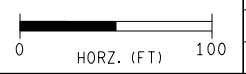
SECTION 28
T5S, R19W
VILLAGE OF STEVENVILLE

- INSTALL LEACHING BASIN
- 1 Ea Culv. Slip End Sect. 1 on 6, 15 inch, Longit
 - 100 Ft Sewer, CI A, 15 inch, Tr Det A
 - 8 Ft Sewer, CI A, 18 inch, Tr Det A
 - 1 Ea Dr Structure Cover, Type G
 - 1 Ea Dr Structure, 48 inch dia

JN 119672
CAT 0001

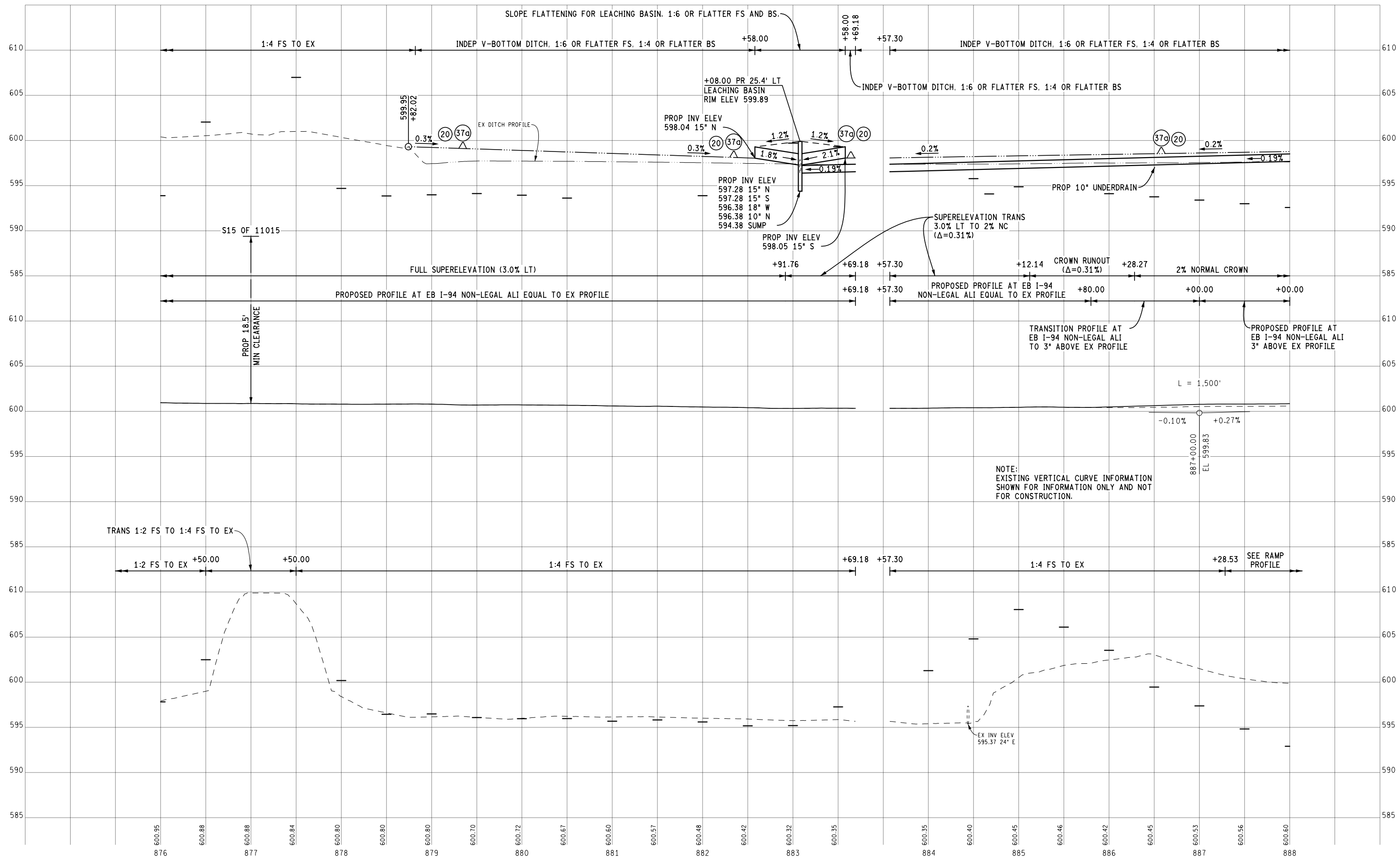
568	Cyd	Embankment, CIP
676	Cyd	Granular Material, CI IIAA
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
4	Ea	Erosion Control, Inlet Protection, Sediment Trap
1175	Ft	Erosion Control, Silt Fence
32	Ft	Permeable Runoff Structure
2844	Syd	Aggregate Base, 6 inch
315	Ton	Shoulder, CI II
938	Ft	Underdrain, Subgrade, 10 inch, Modified
504	Ton	HMA, 3E3
336	Ton	HMA, 4E3
581	Ton	HMA, 4E30
241	Ton	HMA, 5E3
40	Ton	HMA Approach
436	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
100	Ft	Valley Gutter, Conc
22	Ft	Spillway, Conc
1	Ea	Shoulder Gutter, Conc, Det 2, Modified
1200	Ft	Cable Barrier, High Tension, Reconst
119	Ea	Cable Barrier, High Tension, Line Post Fdn
4	Syd	Riprap, Plain
4693	Syd	Turf Establishment, Performance
450	Syd	Dune Grass Planting
2426	Ft	Shoulder Corrugations, Ground or Cut, HMA

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

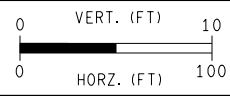


DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO
CS: 11015
JN: 119672A
FILE: 119672_194EB_CON_025.dgn

CONSTRUCTION SHEET
STA 876+00 TO STA 888+00
DRAWING SHEET
194EB CON 025 SECT 1
119



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

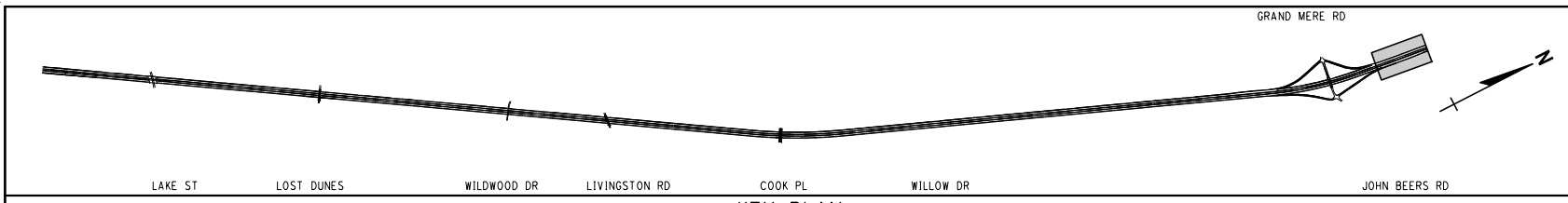


DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_I94EB_PROF_025.dgn

CS: 11015
 JN: 119672A

PROFILE SHEET
 STA 876+00 TO STA 888+00

DRAWING SHEET
 194EB PROF 025
 SECT 1
 120



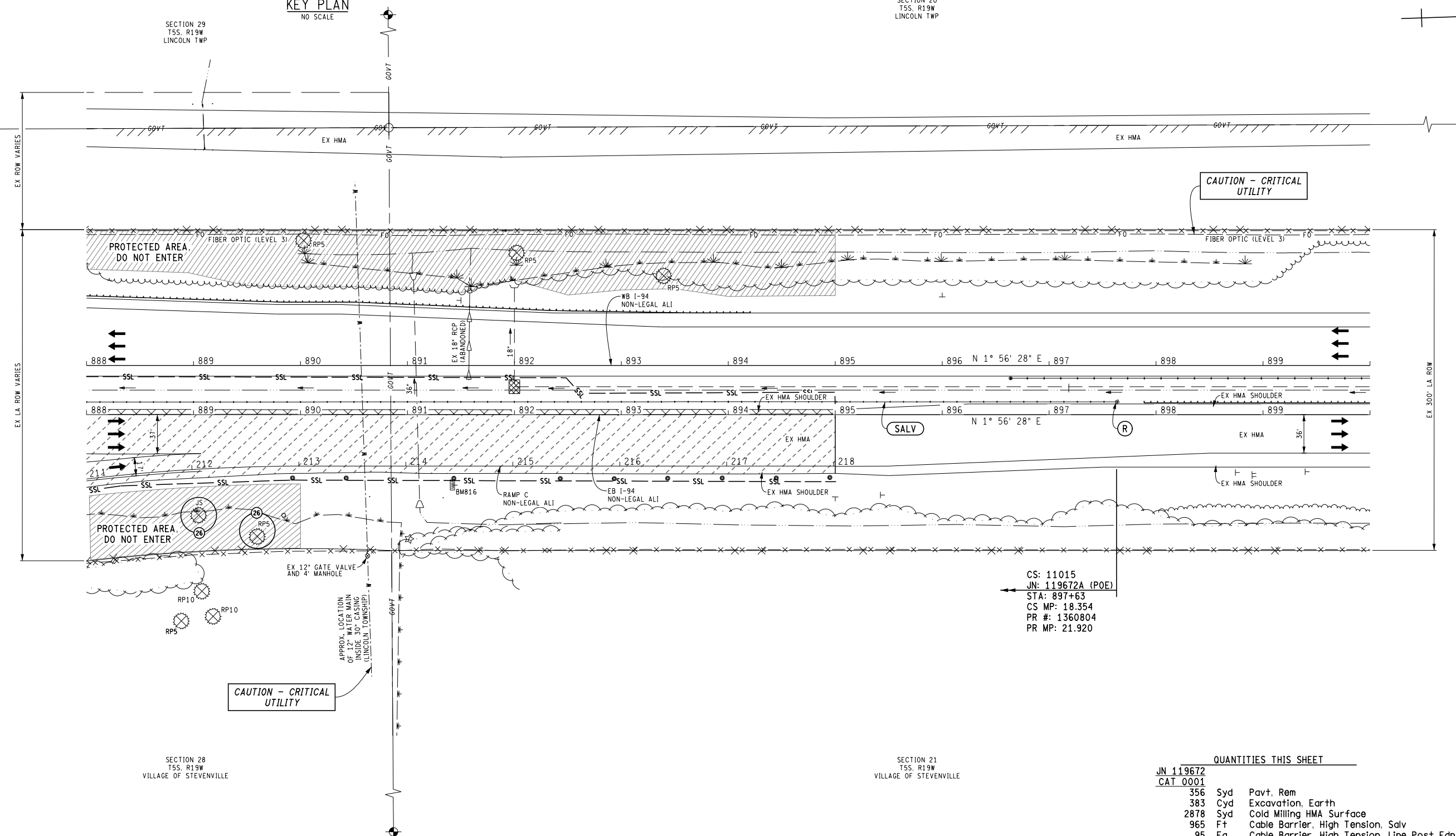
SECTION 20
T55, R19W
LINCOLN TWP

NOTRE DAME AVE

WB I-94
EB I-94
RAMP C

NOTRE DAME AVE

WB I-94
EB I-94

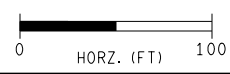


CS: 11015
JN: 119672A (POE)
STA: 897+63
CS MP: 18.354
PR #: 1360804
PR MP: 21.920

QUANTITIES THIS SHEET

JN 119672 CAT 0001		
356	Syd	Pavt. Rem
383	Cyd	Excavation, Earth
2878	Syd	Cold Milling HMA Surface
965	Ft	Cable Barrier, High Tension, Salv
95	Ea	Cable Barrier, High Tension, Line Post Fdn, Rem
1	Ea	Cable Barrier, High Tension, End Term Fdn, Rem

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

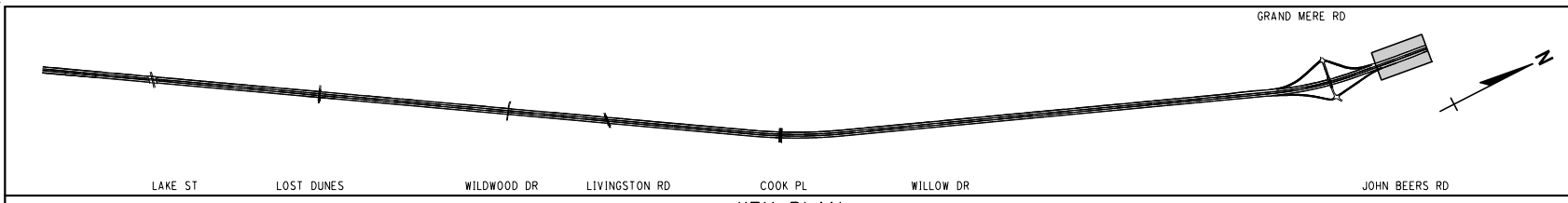


DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO
FILE: 119672_194EB_REM_026.dgn

CS: 11015
JN: 119672A

REMOVAL SHEET
STA 888+00 TO STA 900+00

DRAWING SHEET
194EB REM 026 SECT 1
121

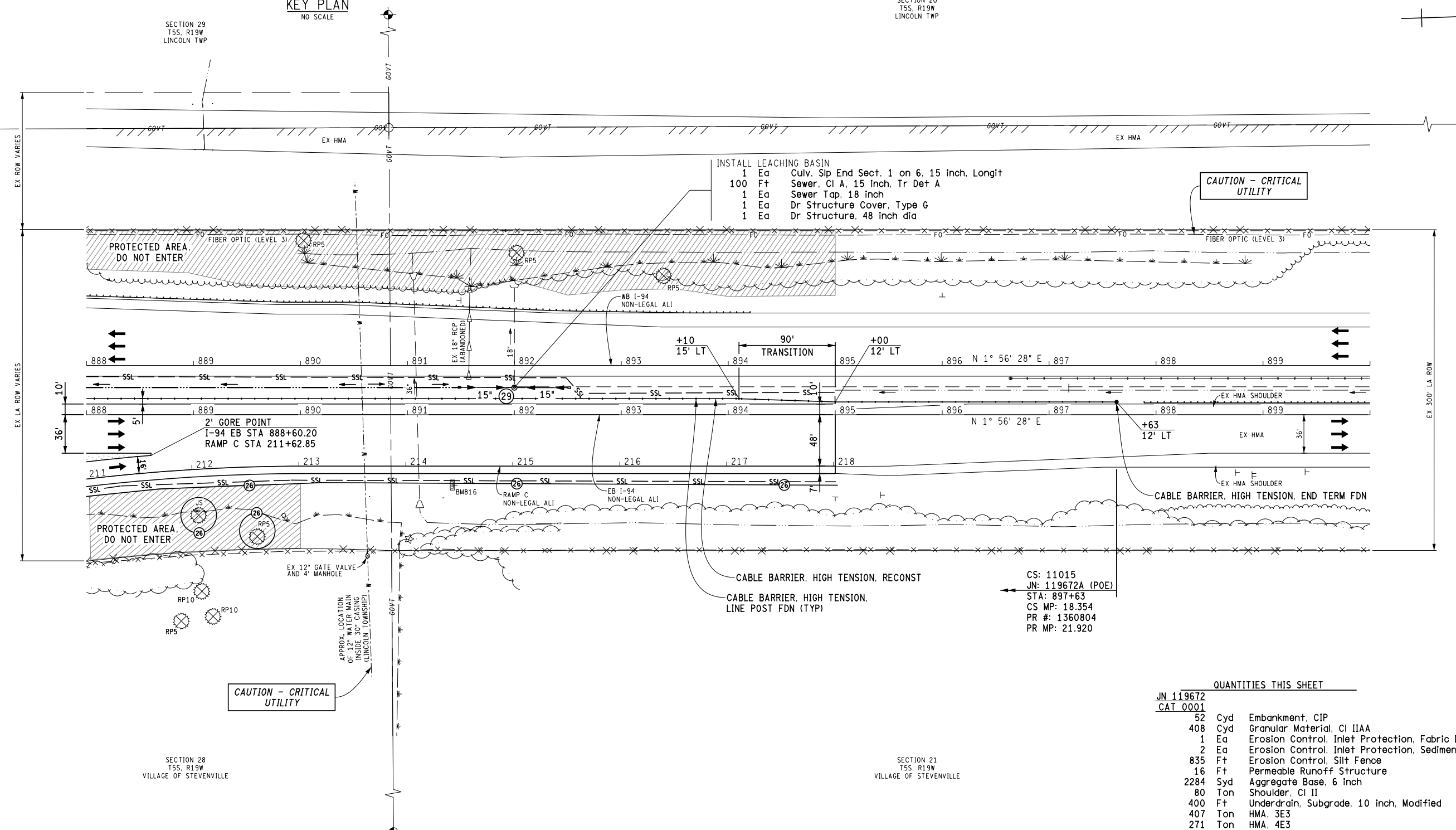


SECTION 20
TSS, R19W
LINCOLN TWP



NOTRE DAME AVE
WB I-94
EB I-94
RAMP C

NOTRE DAME AVE
WB I-94
EB I-94



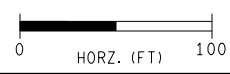
SECTION 28
TSS, R19W
VILLAGE OF STEVENVILLE

SECTION 21
TSS, R19W
VILLAGE OF STEVENVILLE

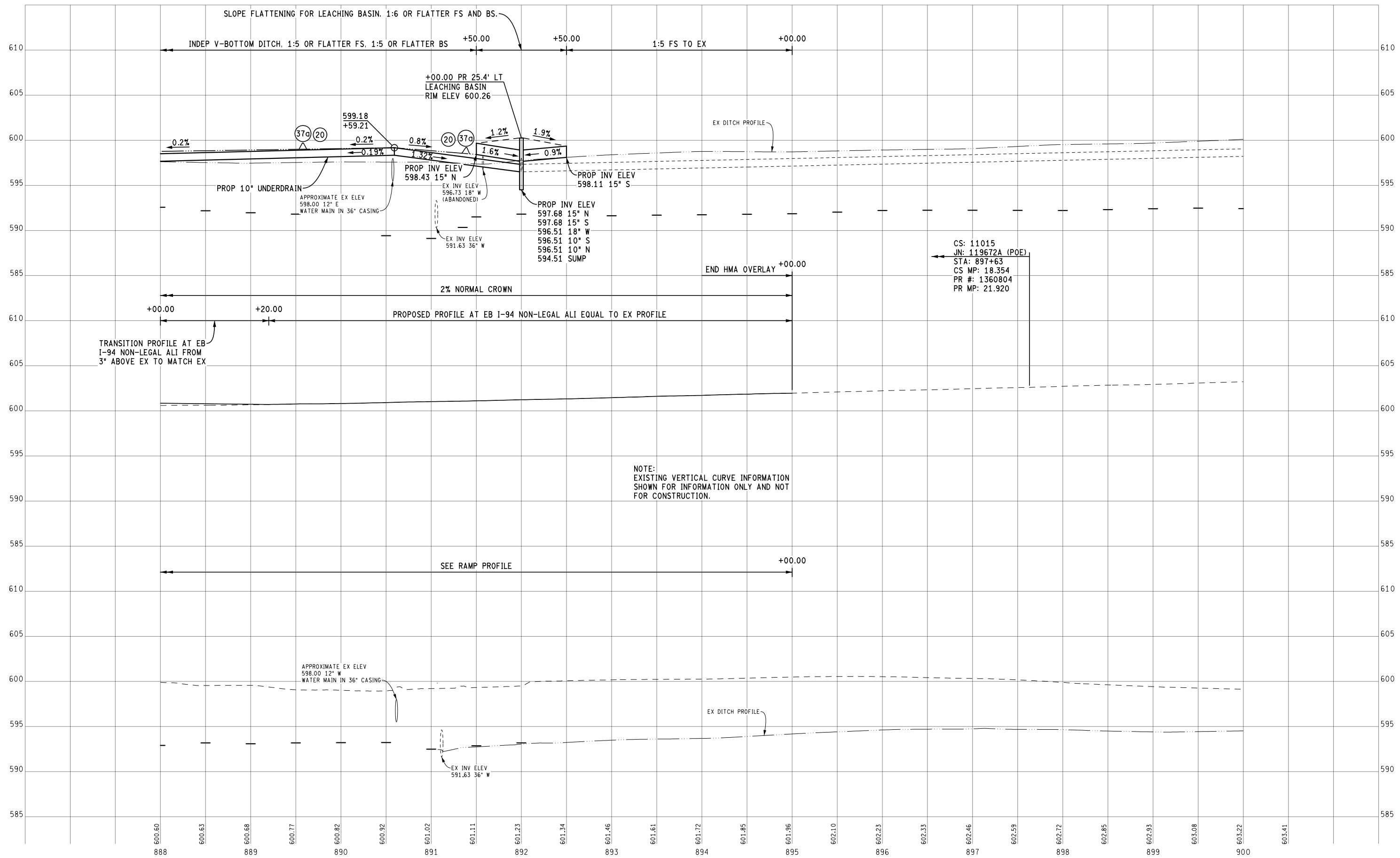
QUANTITIES THIS SHEET

QTY	UNIT	DESCRIPTION
52	Cyd	Embankment, CIP
408	Cyd	Granular Material, CI IIAA
1	Ea	Erosion Control, Inlet Protection, Fabric Drop
2	Ea	Erosion Control, Inlet Protection, Sediment Trap
835	Ft	Erosion Control, Silt Fence
16	Ft	Permeable Runoff Structure
2284	Syd	Aggregate Base, 6 inch
80	Ton	Shoulder, CI II
400	Ft	Underdrain, Subgrade, 10 inch, Modified
407	Ton	HMA, 3E3
271	Ton	HMA, 4E3
339	Ton	HMA, 4E30
204	Ton	HMA, 5E3
828	Ton	HMA, 5E30
14	Ton	HMA Approach
255	Ton	HMA Gap-Graded Superpave (3/8 inch Nominal Max)
965	Ft	Cable Barrier, High Tension, Reconst
95	Ea	Cable Barrier, High Tension, Line Post Fdn
1	Ea	Cable Barrier, High Tension, End Term Fdn
2051	Syd	Turf Establishment, Performance
1401	Ft	Shoulder Corrugations, Ground or Cut, HMA

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



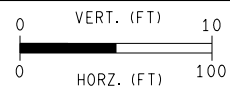
DATE: 08/03/16	CS: 11015	CONSTRUCTION SHEET STA 888+00 TO STA 900+00	DRAWING	SHEET
DESIGN UNIT: WILCOX	JN: 119672A		194EB CON 026	SECT 1 122
FILE: 119672_194EB_CON_026.dgn		TSC: KALAMAZOO		



NOTE:
EXISTING VERTICAL CURVE INFORMATION
SHOWN FOR INFORMATION ONLY AND NOT
FOR CONSTRUCTION.

EX GROUND PROFILE 23' LT
EX GROUND POINTS 173' LT
PROF LT DITCH PROFILE
EX GROUND PROFILE AT EB I-94 NON-LEGAL ALI
APPROXIMATE PROFILE AT EB I-94 NON-LEGAL ALI
EX GROUND PROFILE 66' RT
EX GROUND POINTS 123' RT
PROF RT DITCH PROFILE

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

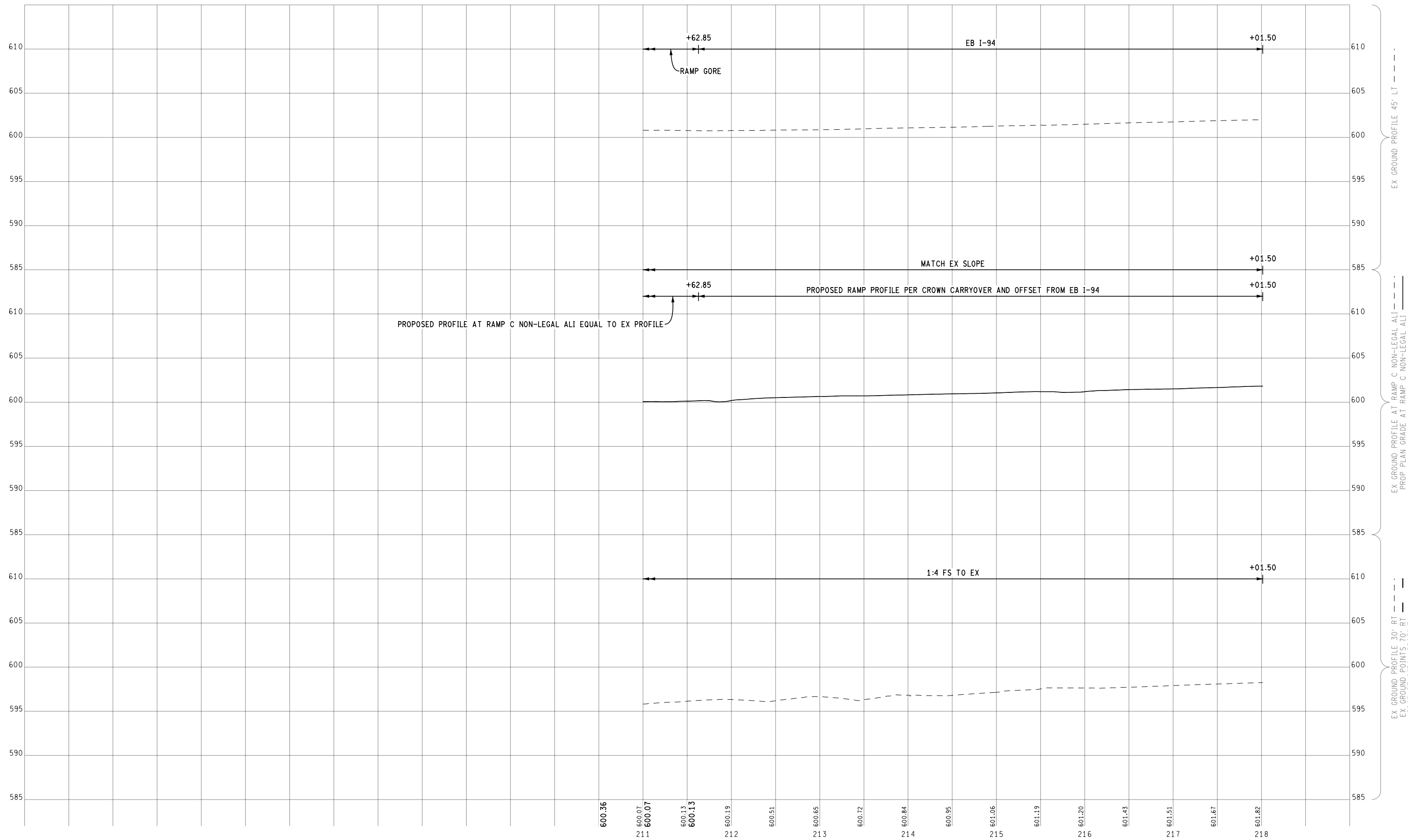


DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO
FILE: 119672_194EB_PROF_026.dgn

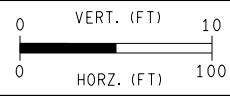
CS: 11015
JN: 119672A

PROFILE SHEET
STA 888+00 TO STA 897+63 (POE)

DRAWING SHEET
194EB PROF 026
SECT 1
123



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



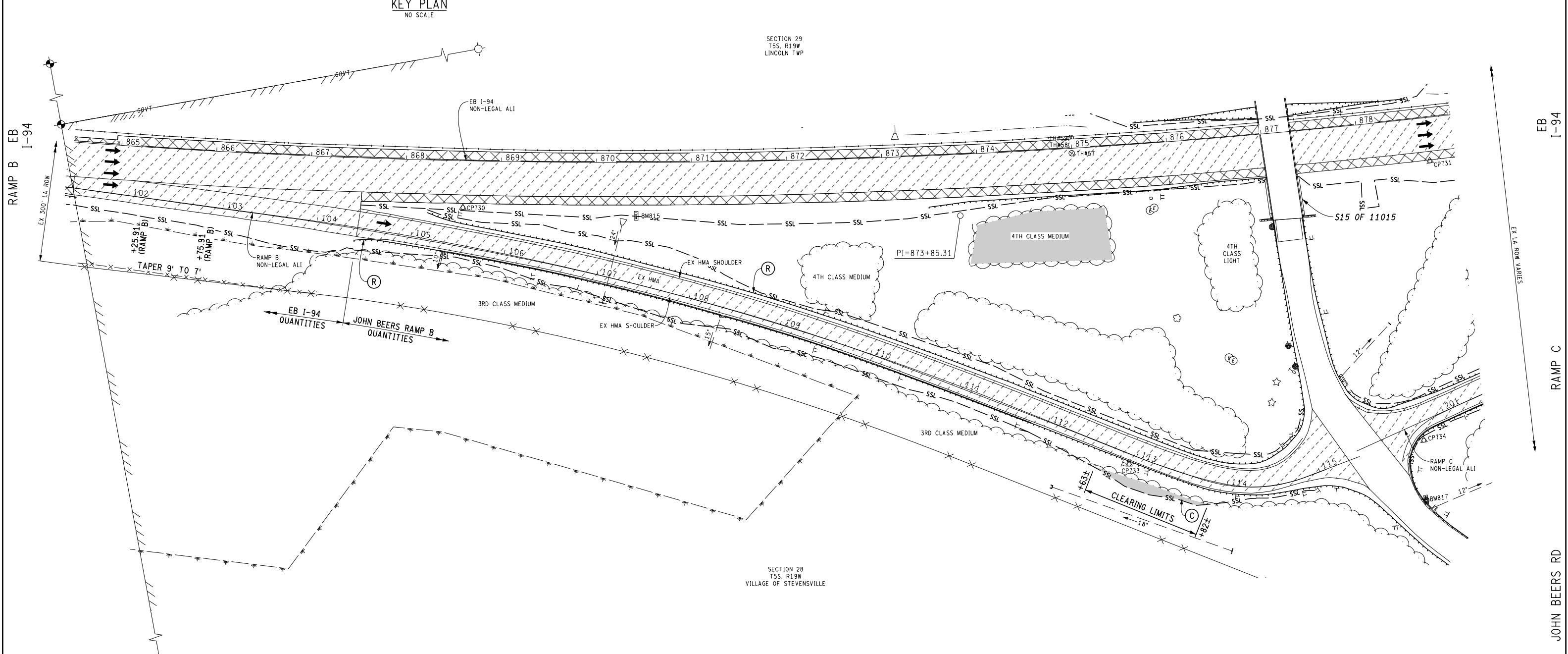
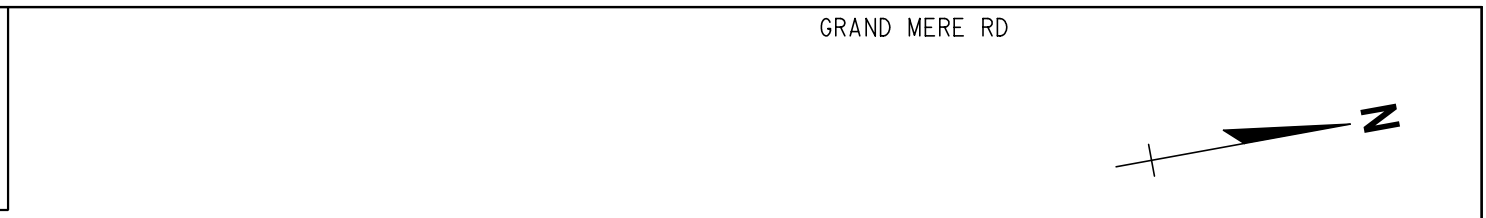
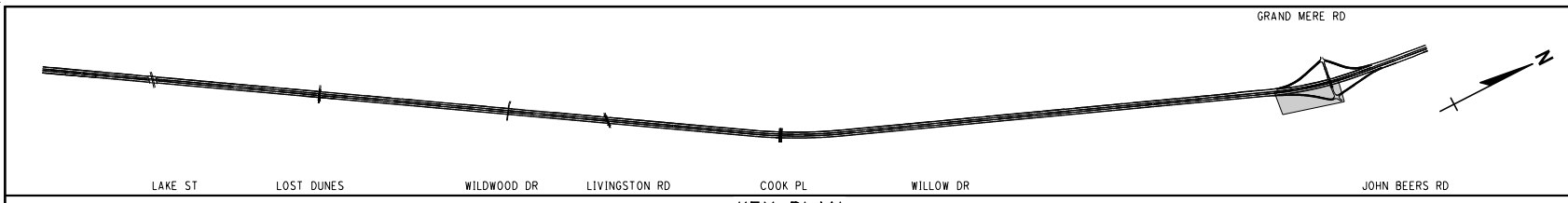
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 TSC: KALAMAZOO

DATE: 08/03/16
 DESIGN UNIT: WILCOX

CS: 11015
 JN: 119672

RAMP C PROFILE SHEET
 STA 211+00 TO STA 218+02

DRAWING SHEET
 RAMP C PROF 002
 SECT 1
124



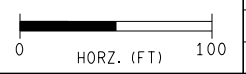
SECTION 29
T55, R19W
LINCOLN TWP

SECTION 28
T55, R19W
VILLAGE OF STEVENSVILLE

QUANTITIES THIS SHEET

JN 119672	0.02	Acre	Clearing
CAT 0001	2081	Ft	Guardrail, Rem
	3267	Syd	Cold Milling HMA Surface

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

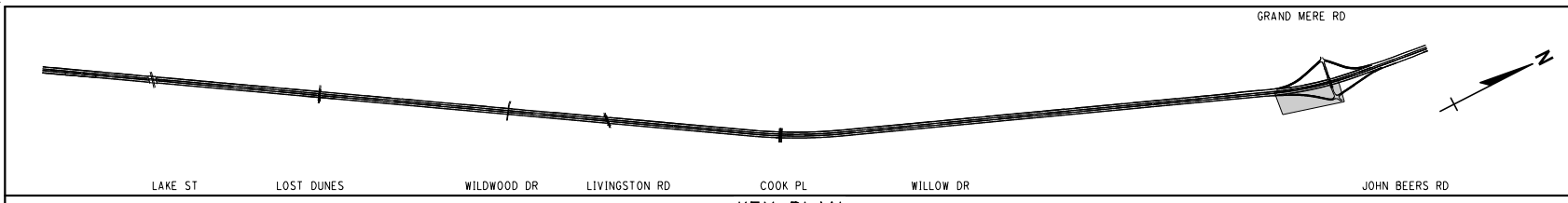


DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO
FILE: 119672_I94EB_REM_RAMP_B.dgn

CS: 11015
JN: 119672A

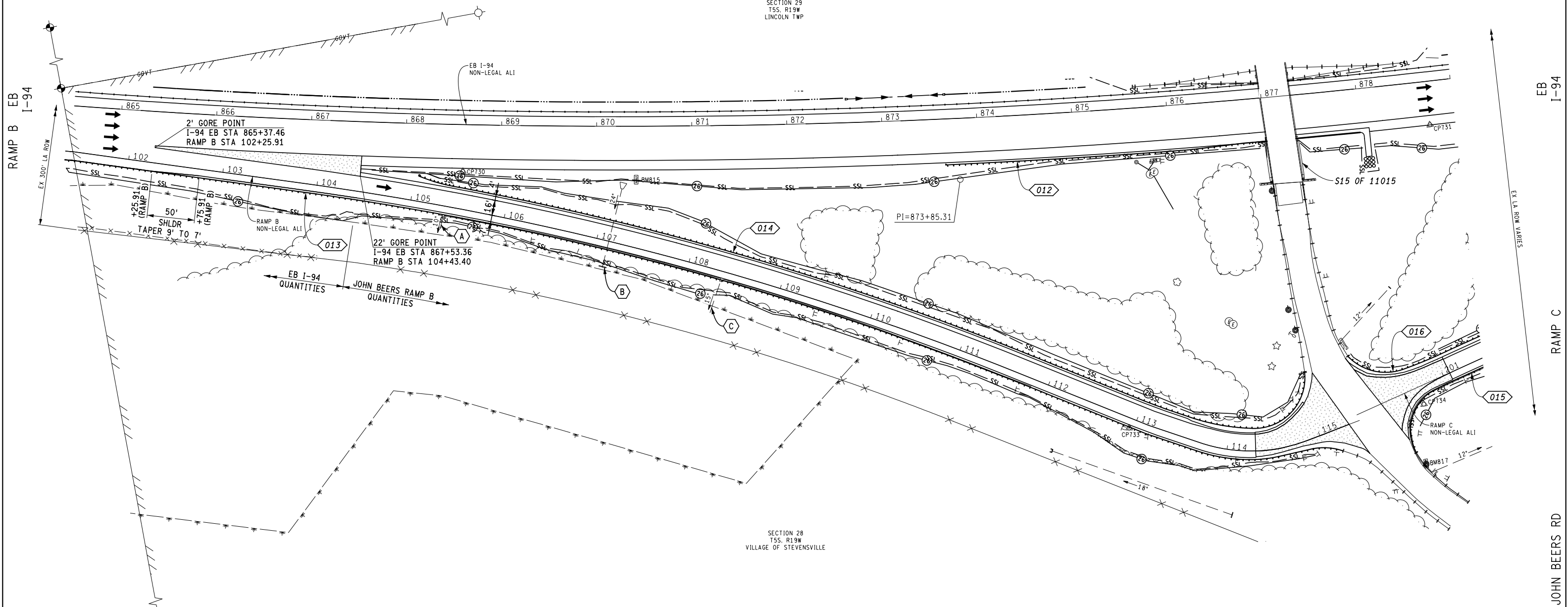
RAMP B REMOVAL SHEET
STA 101+33 TO STA 115+33 (POE)

DRAWING SHEET
RAMPB REM 001
SECT 1 125



KEY PLAN
NO SCALE

SECTION 29
T55, R19W
LINCOLN TWP



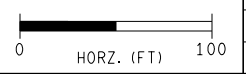
SECTION 28
T55, R19W
VILLAGE OF STEVENSVILLE

- (A) REMOVE DEBRIS FROM CULVERT
19 Ft Culvert Cleanout
- (B) REMOVE DEBRIS FROM CULVERT
57 Ft Culvert Cleanout
- (C) REMOVE DEBRIS FROM CULVERT
36 Ft Culvert Cleanout

QUANTITIES THIS SHEET

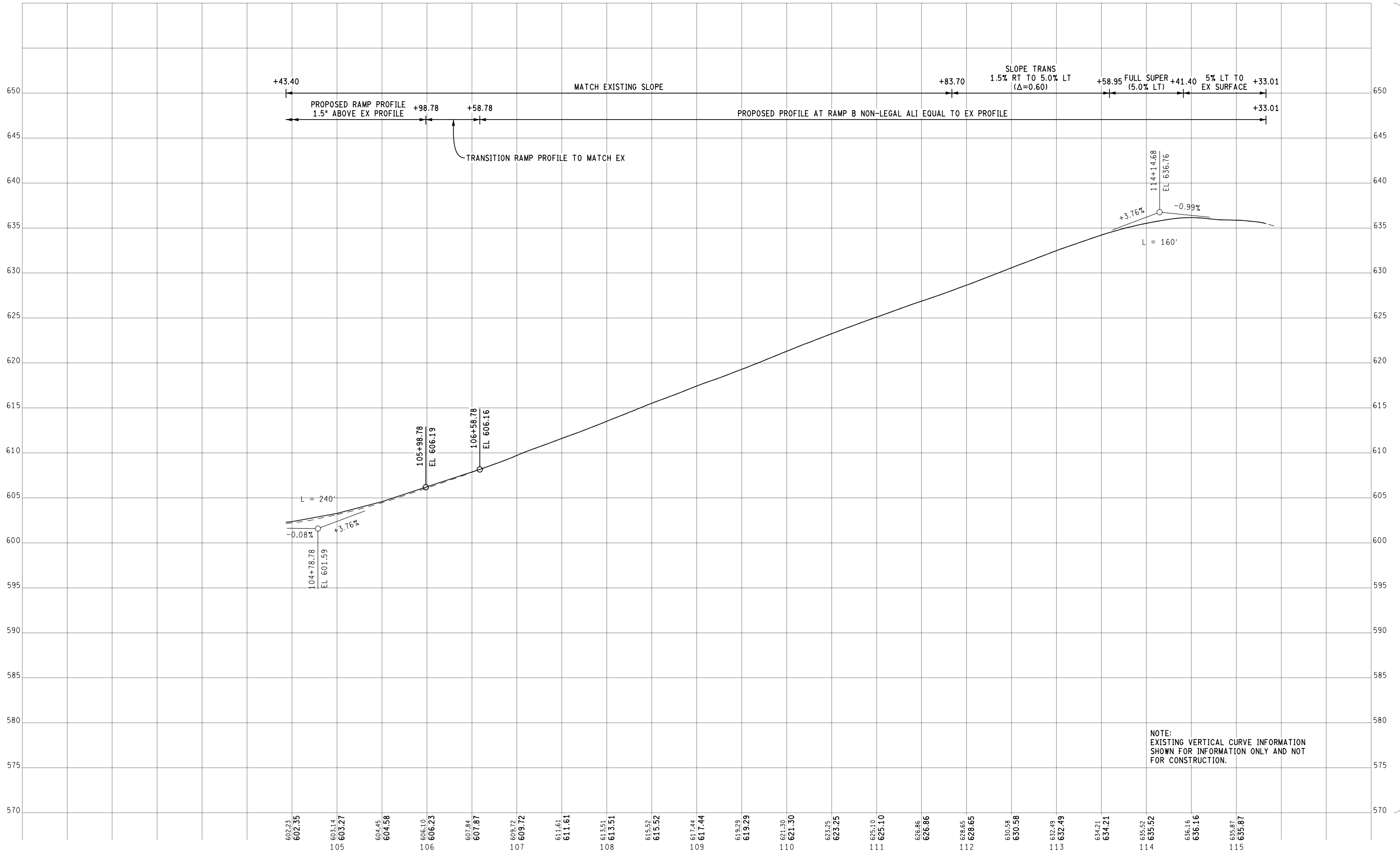
JN 119672		
CAT 0001		
245	Cyd	Embankment, CIP
2135	Ft	Erosion Control, Silt Fence
183	Ton	Shoulder, CI II
422	Ton	HMA, 4E3
297	Ton	HMA, 5E3
960	Syd	Mulch Blanket, High Velocity
960	Syd	Turf Establishment, Performance
1291	Syd	Turf Reinforcement Mat, Permanent

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



DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
TSC: KALAMAZOO	FILE: 119672_I94EB_CON_RAMP_B.dgn

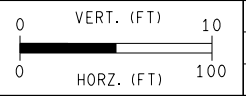
RAMP B CONSTRUCTION SHEET		DRAWING	SHEET
STA 101+33 TO STA 115+33 (POE)		RAMPB	SECT 1
		CON	002
			126



EX GROUND PROFILE AT RAMP B NON-LEGAL ALI
 PROP PLAN GRADE AT RAMP B NON-LEGAL ALI

NOTE:
 EXISTING VERTICAL CURVE INFORMATION
 SHOWN FOR INFORMATION ONLY AND NOT
 FOR CONSTRUCTION.

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

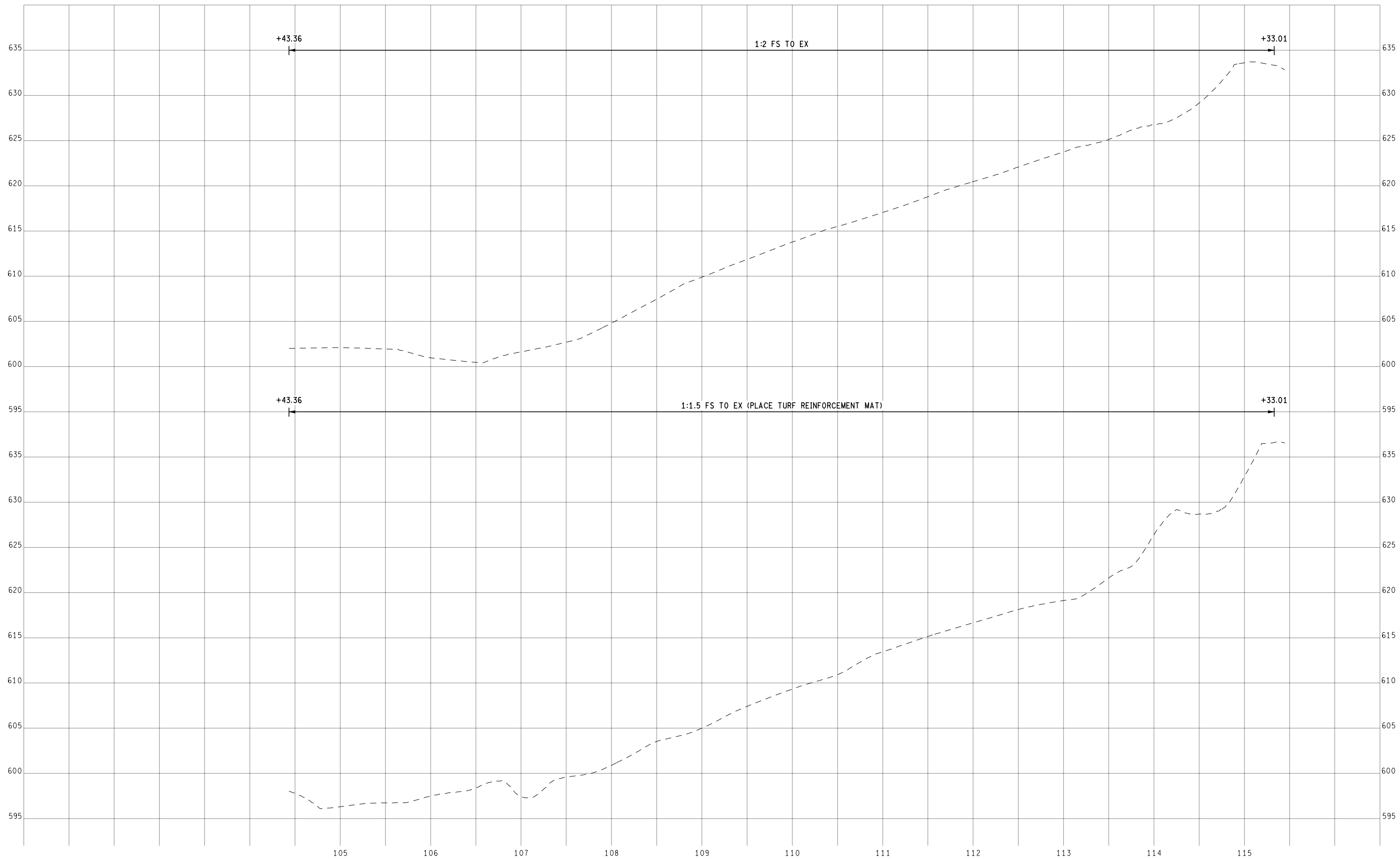


DATE: 08/03/16
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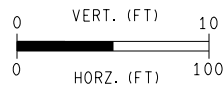
CS: 11015
 JN: 119672A

RAMP B PROFILE SHEET
 STA 104+43 TO STA 115+33

DRAWING SHEET
 RAMPB PROF 003a
 SECT 1
 127



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



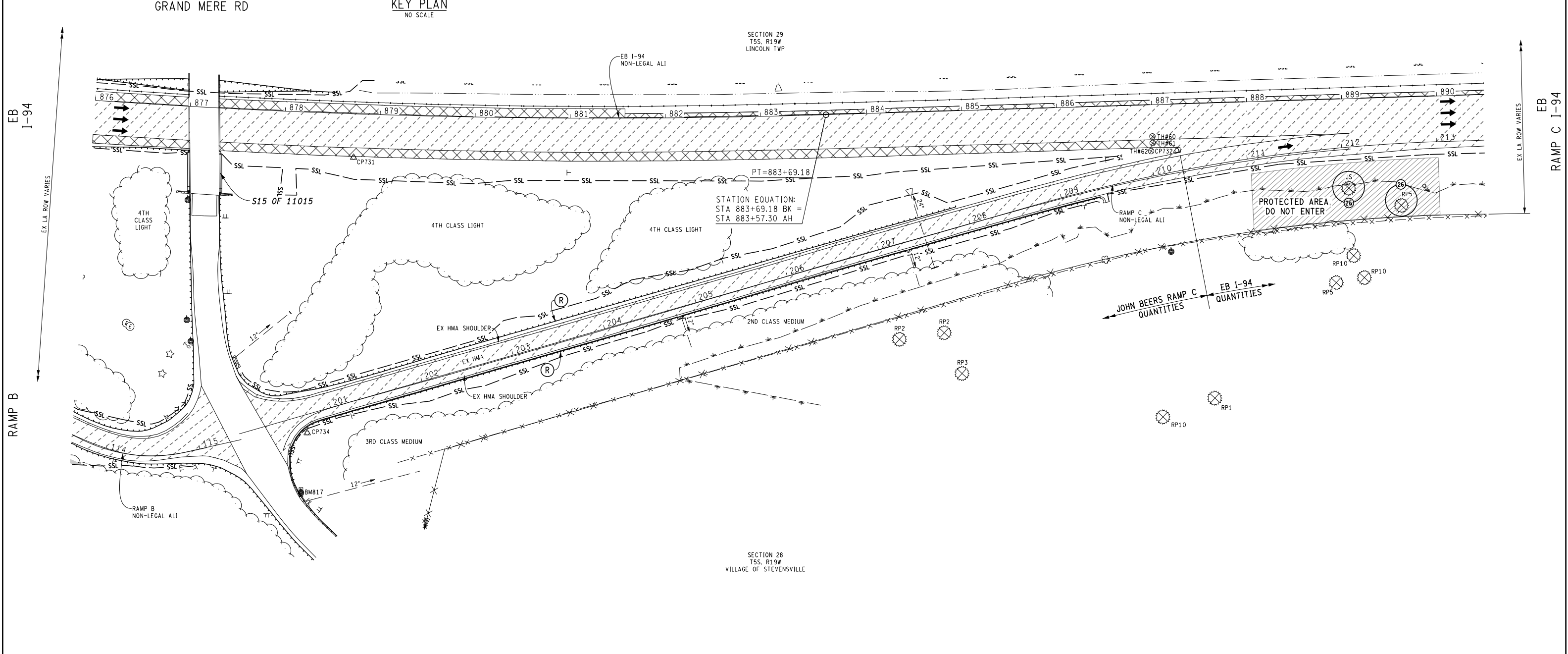
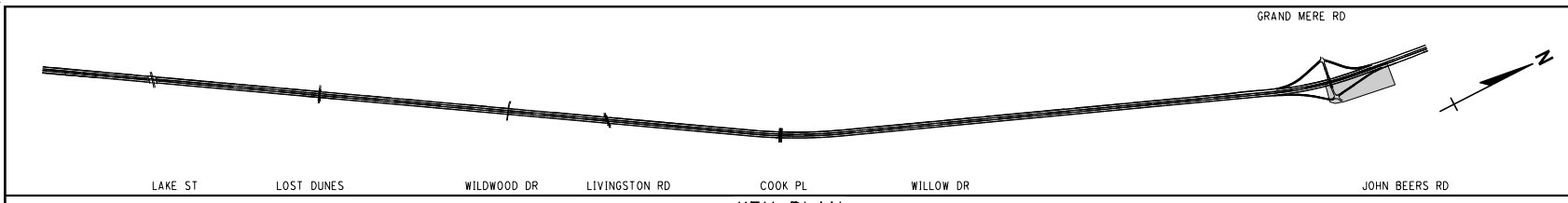
FILE: 119672_RAMP_B_PROF_003b.dgn

DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO

CS: 11015
JN: 119672A

RAMP B PROFILE SHEET
STA 104+43 TO STA 115+33

DRAWING SHEET
RAMPB PROF 003b
SECT 1
128



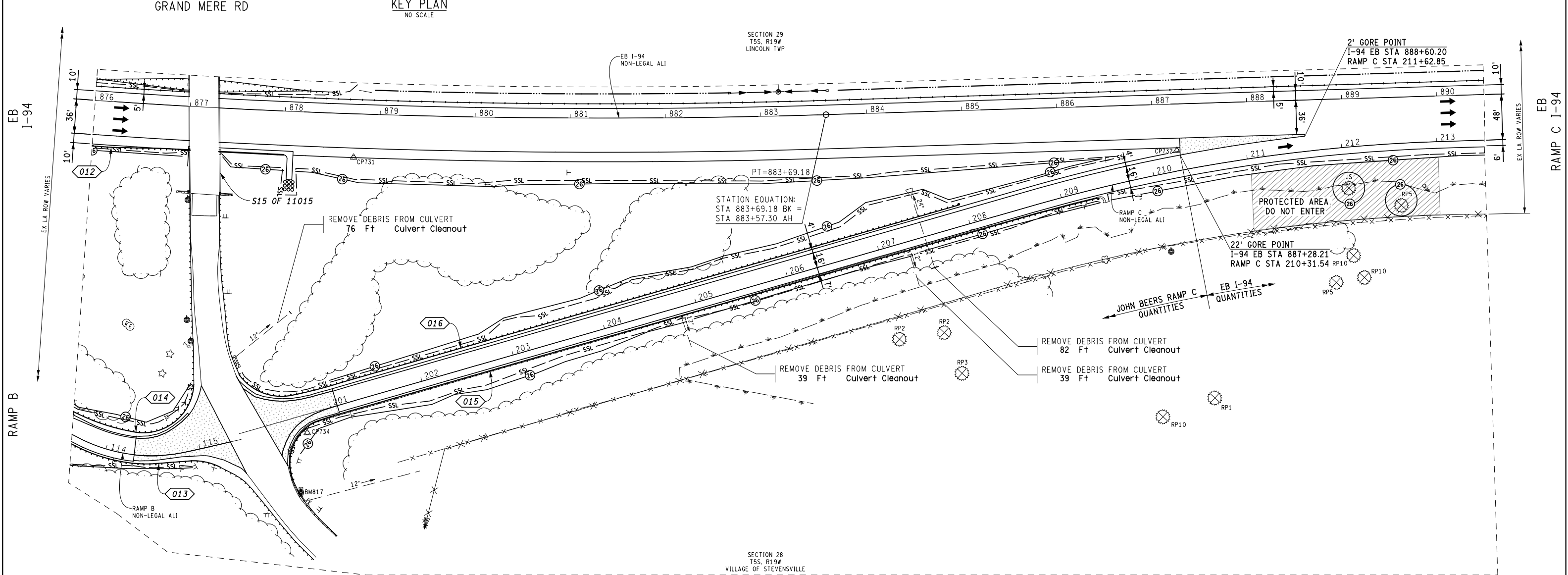
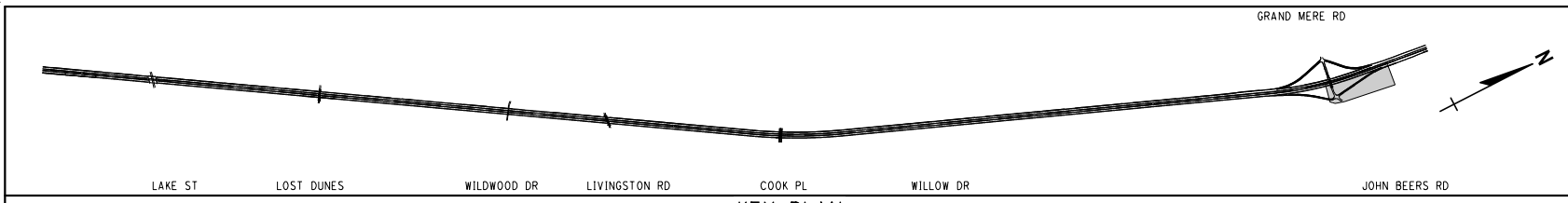
SECTION 29
T5S, R19W
LINCOLN TWP

SECTION 28
T5S, R19W
VILLAGE OF STEVENSVILLE

QUANTITIES THIS SHEET

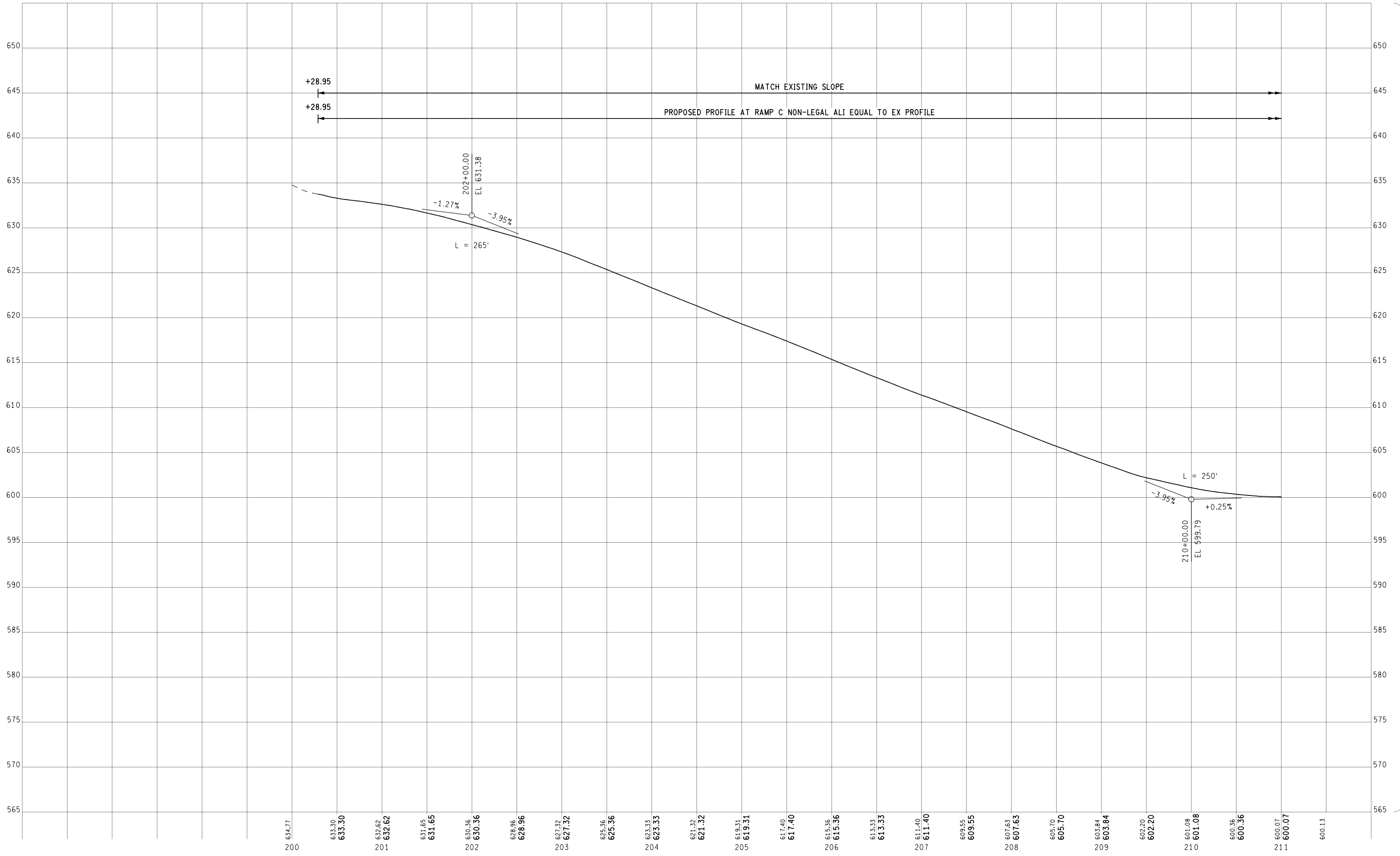
JN 119672		
CAT 0001		
1721	Ft	Guardrail, Rem
3029	Syd	Cold Milling HMA Surface

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								DATE: 08/03/16	CS: 11015	RAMP C REMOVAL SHEET		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE			AUTH	DESCRIPTION	JN: 119672A	STA 200+00 (POB) TO STA 213+50		RAMP C REM 001
FILE: 119672_194EB_REM_RAMP_C.dgn								TSC: KALAMAZOO					



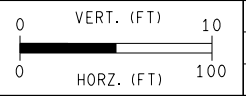
QUANTITIES THIS SHEET

JN 119672		
CAT 0001		
78	Cyd	Embankment, CIP
1935	Ft	Erosion Control, Silt Fence
142	Ton	Shoulder, CI II
367	Ton	HMA, 4E3
275	Ton	HMA, 5E3
451	Syd	Mulch Blanket
1461	Syd	Mulch Blanket, High Velocity
1461	Syd	Turf Establishment, Performance
451	Syd	Dune Grass Planting



EX GROUND PROFILE AT RAMP C NON-LEGAL ALI
 PROP PLAN GRADE AT RAMP C NON-LEGAL ALI

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



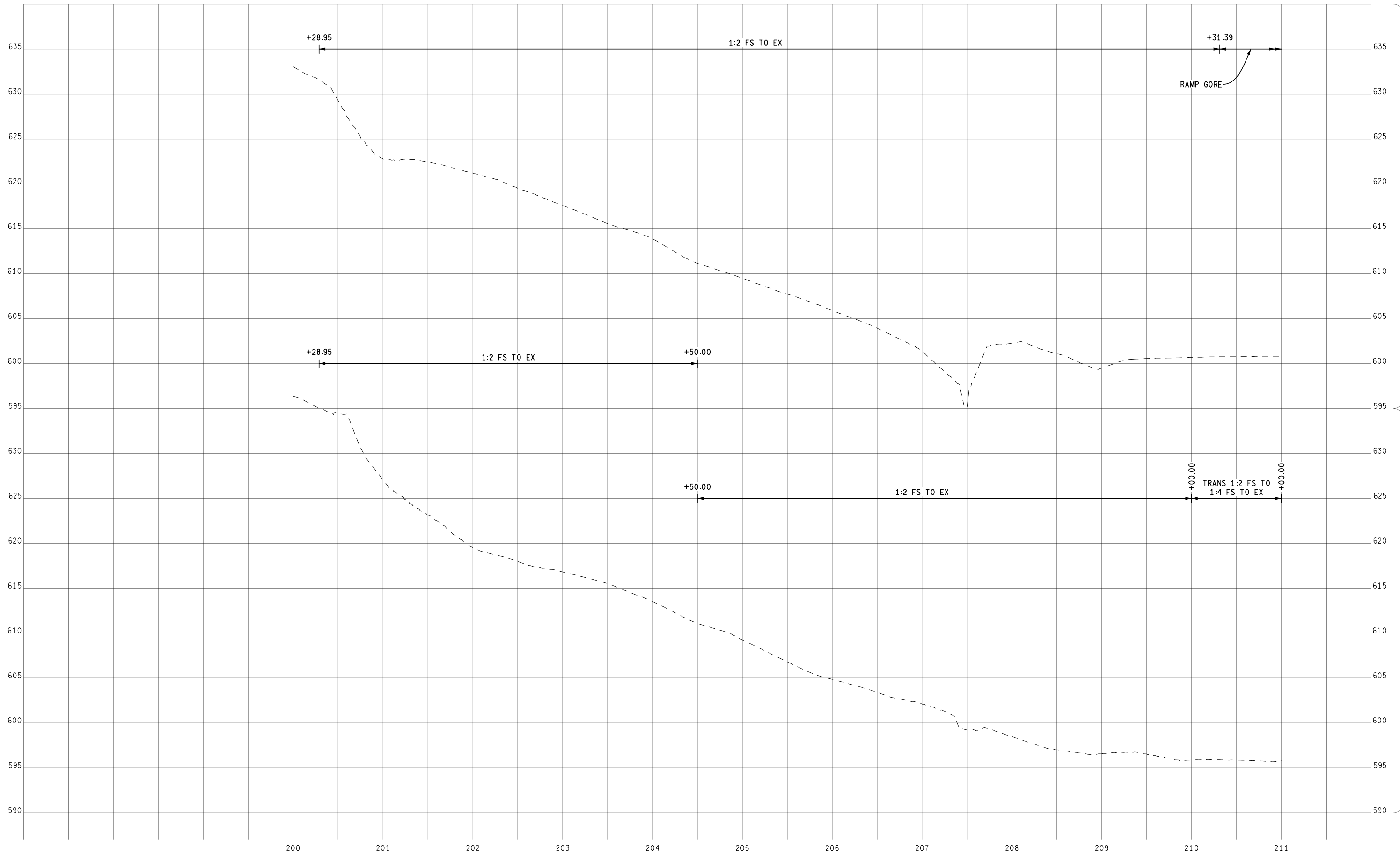
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DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO

CS: 11015
 JN: 119672A

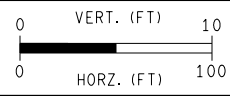
RAMP C PROFILE SHEET
 STA 200+29 TO STA 211+00

DRAWING SHEET
 RAMP C PROF 001a
 SECT 1
 131



EX GROUND PROFILE 45' LT
 EX GROUND PROFILE 30' RT
 EX GROUND POINTS 70' RT
 PROP RT DITCH PROFILE

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

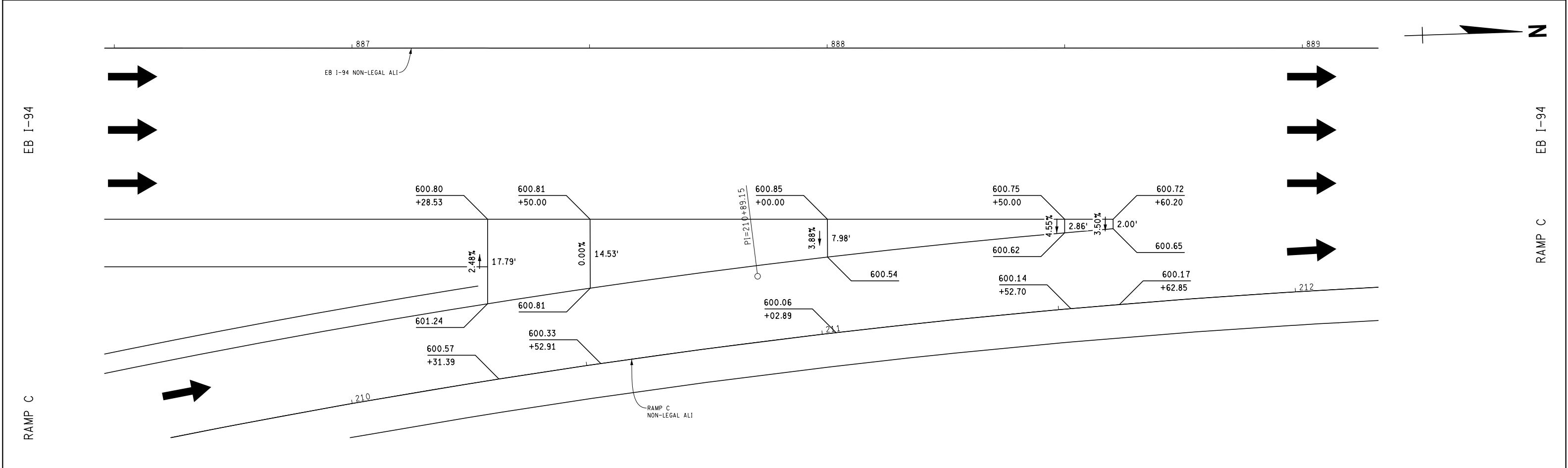
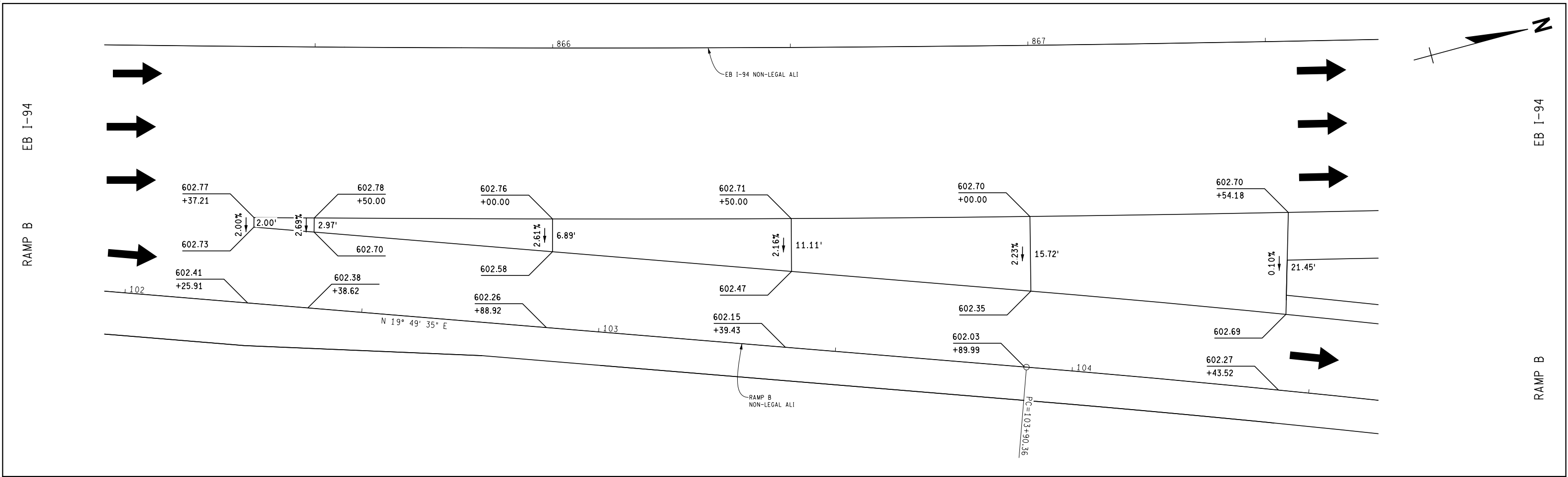


DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_RAMP_C_PROF_001b.dgn

CS: 11015
 JN: 119672A

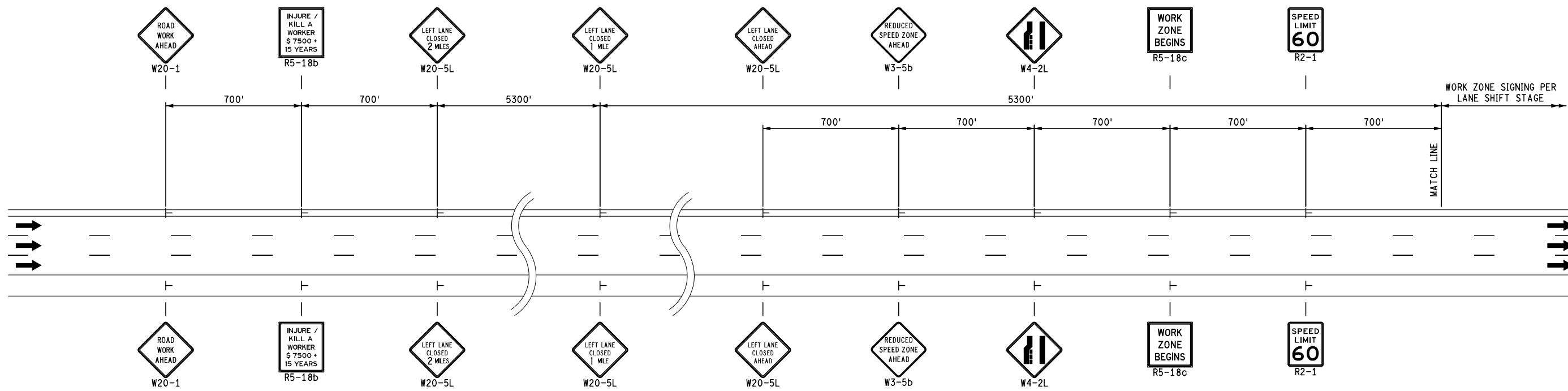
RAMP C PROFILE SHEET
 STA 200+00 TO STA 211+00

DRAWING SHEET
 RAMP PROF 001b
 SECT 1
 132



FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)				MDOT Michigan Department of Transportation				DATE: 08/03/16		CS: 11015		DRAWING SHEET	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	DESIGN UNIT: WILCOX	JN: 119672A	I-94 AT JOHN BEERS RD INTERCHANGE		194EB DETGRD 001	SECT 1 133
								TSC: KALAMAZOO					

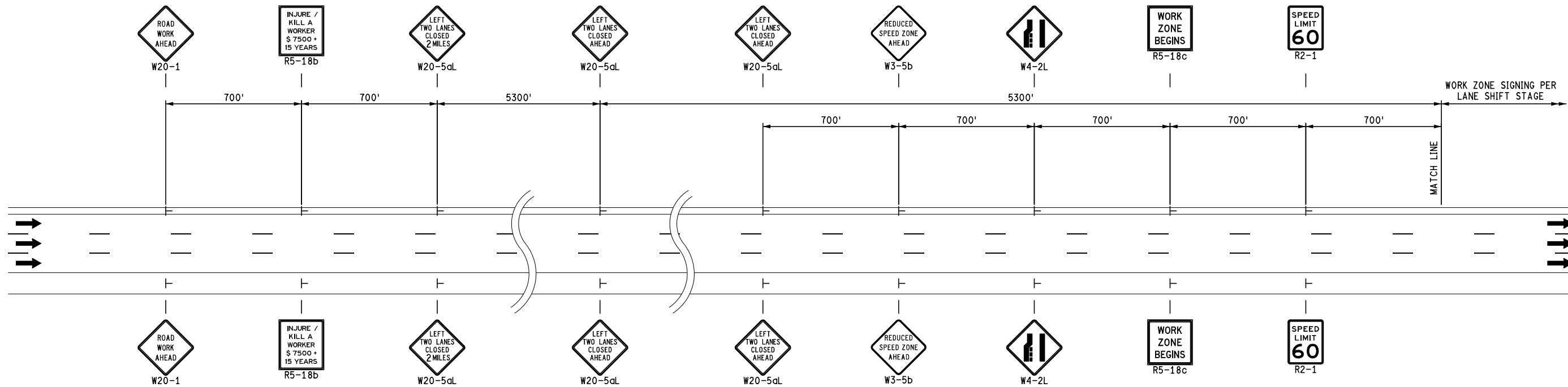
EB I-94



ADVANCE SIGNING - DETAIL A

EB I-94

EB I-94



ADVANCE SIGNING - DETAIL B

EB I-94

LEGEND

- CHANNELIZING DEVICE
- TEMPORARY SIGN
- ➔ LIGHTED ARROW PANEL (ARROW MODE)
- ⚡ LIGHTED ARROW PANEL (CAUTION MODE)
- 📄 PORTABLE CHANGEABLE MESSAGE SIGN
- ➔ TRAFFIC FLOW ARROW
- RESTRICTED TRAFFIC LANE
- ▨ WORK ZONE

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

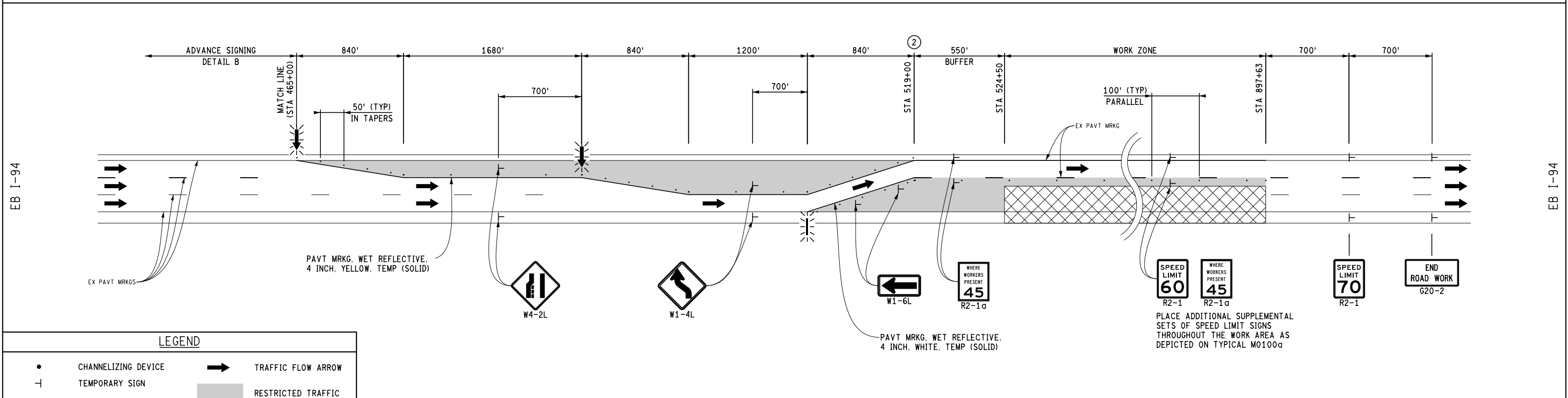
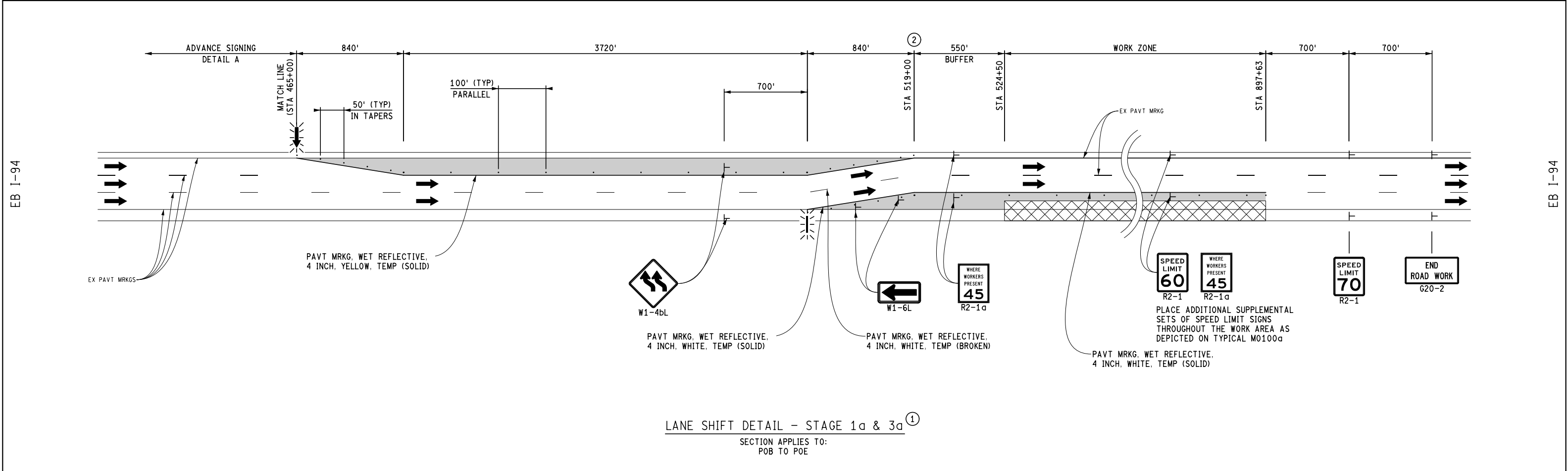


NO SCALE

DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
TSC: KALAMAZOO	FILE: 119672_194EB_Mt_DET_001.dgn

MAINTAINING TRAFFIC SHEET
DETAIL SHEET

DRAWING	SHEET
194EB MTDET 001	134



LEGEND

•	CHANNELIZING DEVICE	➔	TRAFFIC FLOW ARROW
⊥	TEMPORARY SIGN	■	RESTRICTED TRAFFIC LANE
➔	LIGHTED ARROW PANEL (ARROW MODE)	▨	WORK ZONE
⚠	LIGHTED ARROW PANEL (CAUTION MODE)		
Ⓜ	PORTABLE CHANGEABLE MESSAGE SIGN		

- ① USE MAINTAINING TRAFFIC DETAIL 004 FOR TRAFFIC CONTROL ON EXIT AND ENTRANCE RAMP WITHIN THE WORK ZONE AS DIRECTED BY THE ENGINEER.
- ② COMPLETE THE LANE SHIFT PRIOR TO THE BEGINNING OF THE HORIZONTAL CURVE SOUTH OF RED ARROW HIGHWAY (STA 519+00).

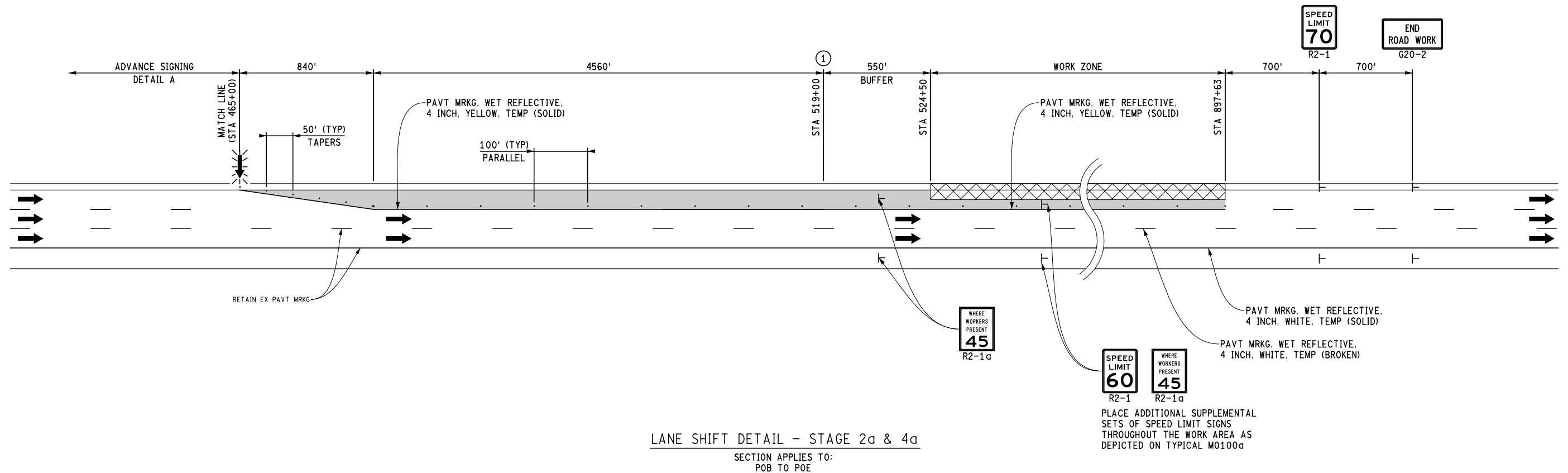
FINAL ROW PLAN REVISIONS				(SUBMITTAL DATE:)			
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



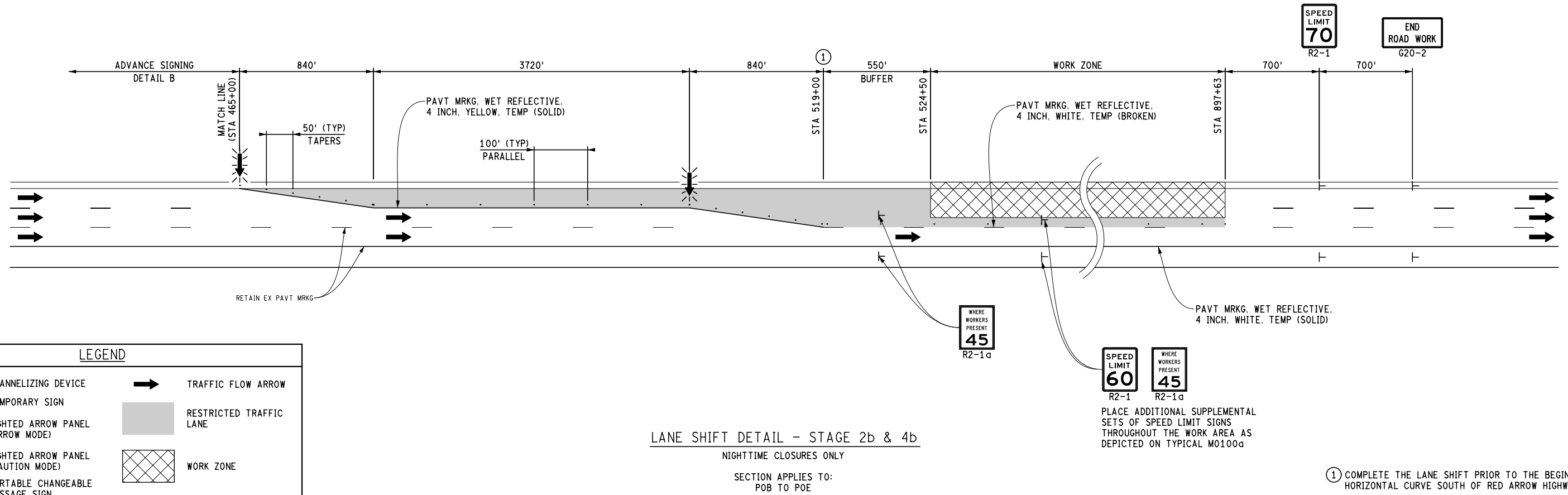
NO SCALE

DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
TSC: KALAMAZOO	FILE: 119672_194EB_Mt_DET_002.dgn

MAINTAINING TRAFFIC SHEET		DRAWING	SHEET
DETAIL SHEET		194EB	SECT 1
STAGE 1 & STAGE 3		MTDET	002
			135



LANE SHIFT DETAIL - STAGE 2a & 4a
SECTION APPLIES TO:
POB TO POE



LANE SHIFT DETAIL - STAGE 2b & 4b
NIGHTTIME CLOSURES ONLY
SECTION APPLIES TO:
POB TO POE

① COMPLETE THE LANE SHIFT PRIOR TO THE BEGINNING OF THE HORIZONTAL CURVE SOUTH OF RED ARROW HIGHWAY (STA 519+00).

LEGEND			
•	CHANNELIZING DEVICE	➔	TRAFFIC FLOW ARROW
⊥	TEMPORARY SIGN	■	RESTRICTED TRAFFIC LANE
⚡	LIGHTED ARROW PANEL (ARROW MODE)	▨	WORK ZONE
⚡	LIGHTED ARROW PANEL (CAUTION MODE)		
⚡	PORTABLE CHANGEABLE MESSAGE SIGN		

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



NO SCALE

DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
TSC: KALAMAZOO	

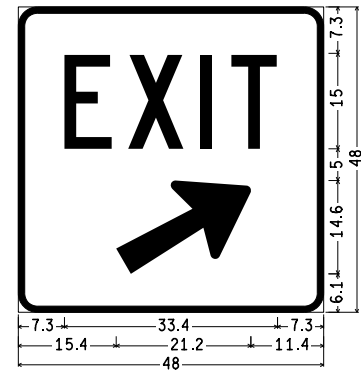
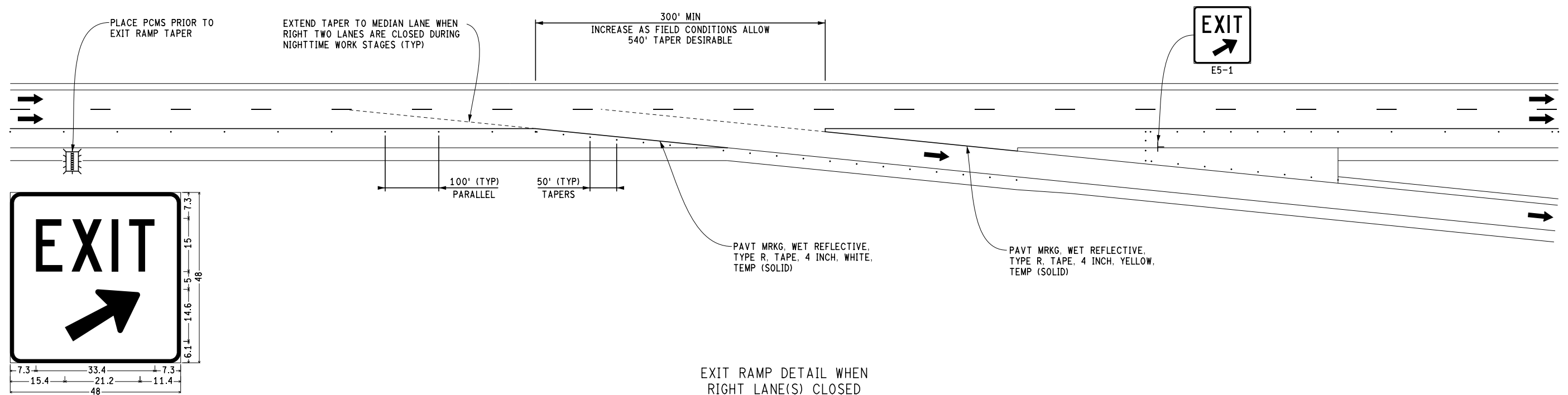
MAINTAINING TRAFFIC SHEET		DRAWING	SHEET
DETAIL SHEET		194EB	SECT 1
STAGE 2 & STAGE 4		MTDET	003
			136

FILE: 119672_194EB_MT_DET_003.dgn

EB I-94

EB I-94

EXIT RAMP



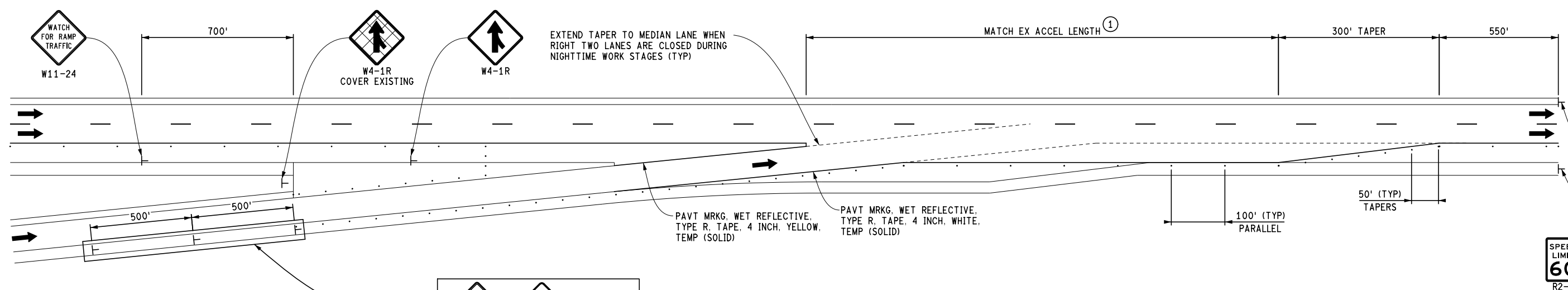
E5-1:
 3.0" Radius, 1.0" Border, Black on Orange;
 [EXIT] C: Arrow B-14 - 23.0" 30°

EXIT RAMP DETAIL WHEN
 RIGHT LANE(S) CLOSED
 SECTION APPLIES TO:
 EXIT RAMPS WITHIN WORK ZONE
 STAGES 1a, 1b, 3a & 3b

EB I-94

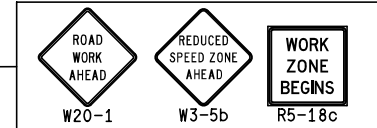
EB I-94

ENTRANCE RAMP



LEGEND

•	CHANNELIZING DEVICE	➔	TRAFFIC FLOW ARROW
+	TEMPORARY SIGN	■	RESTRICTED TRAFFIC LANE
⚡	LIGHTED ARROW PANEL (ARROW MODE)	▨	WORK ZONE
⚡	LIGHTED ARROW PANEL (CAUTION MODE)		
⚡	PORTABLE CHANGEABLE MESSAGE SIGN		



ENTRANCE RAMP DETAIL WHEN
 RIGHT LANE(S) CLOSED
 SECTION APPLIES TO:
 ENTRANCE RAMPS WITHIN WORK ZONE
 STAGES 1a, 1b, 3a & 3b

① EXISTING ACCELERATION LENGTHS:
 900' RED ARROW HWY ENTRANCE RAMP
 650' JOHN BEERS RD ENTRANCE RAMP
 SHORTEN ACCELERATION LANE DISTANCE AS REQUIRED WHEN ACTIVE WORK IS IN THE VICINITY OF THE ENTRANCE RAMP AS DIRECTED BY THE ENGINEER.

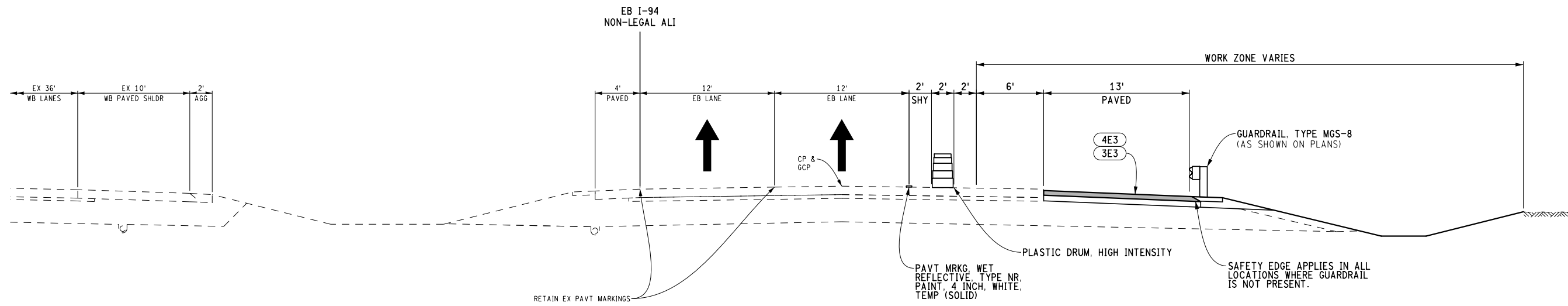
FINAL ROW PLAN REVISIONS				(SUBMITTAL DATE:)			
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



NO SCALE

DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
TSC: KALAMAZOO	FILE: 119672_194EB_MT_DET_004.dgn

MAINTAINING TRAFFIC SHEET		DRAWING	SHEET
DETAIL SHEET		194EB	SECT 1
MAINTAINING EXIT & ENTRANCE RAMPS		MTDET	004
			137

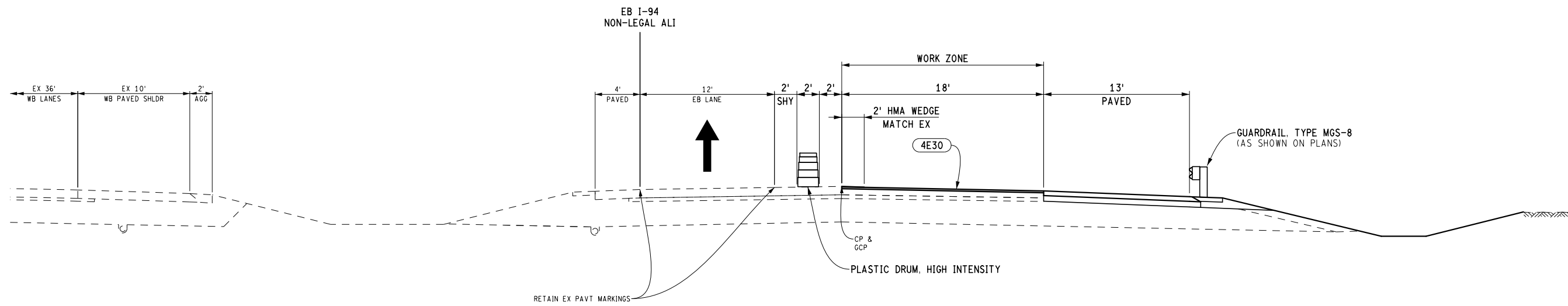


I-94 EB REHABILITATION STAGE 1a
RECONSTRUCT OUTSIDE SHOULDER TO LEVELING COURSE.

SECTION APPLIES TO:
POB TO POE

STAGE 1 OVERVIEW

- 1a: MAINTAIN 2 LANES OF TRAFFIC ON THE MEDIAN AND CENTER LANE. SHIFT TRAFFIC PER DRAWINGS MT_DET_001 AND MT_DET_002. RECONSTRUCT THE OUTSIDE SHOULDER TO THE LEVELING COURSE.
- 1b: MAINTAIN 1 LANE OF TRAFFIC ON THE MEDIAN LANE. THIS STAGE IS ONLY ALLOWED FOR NIGHTTIME CLOSURES IN AREAS OF ACTIVE WORK AS DIRECTED BY THE ENGINEER. COLD MILL AND RESURFACE THE OUTSIDE LANE AND CENTER LANE TO THE CROWN POINT UP TO THE LEVELING COURSE.



I-94 EB REHABILITATION STAGE 1b ^①

NIGHTTIME WORK ONLY
MILL & RESURFACE OUTSIDE LANE & CENTER LANE TO CROWN POINT TO LEVELING COURSE.

SECTION APPLIES TO:
POB TO POE

① LIMIT DOUBLE LANE CLOSURES TO AREAS WHERE ACTIVE WORK IS TAKING PLACE AS DIRECTED BY THE ENGINEER.

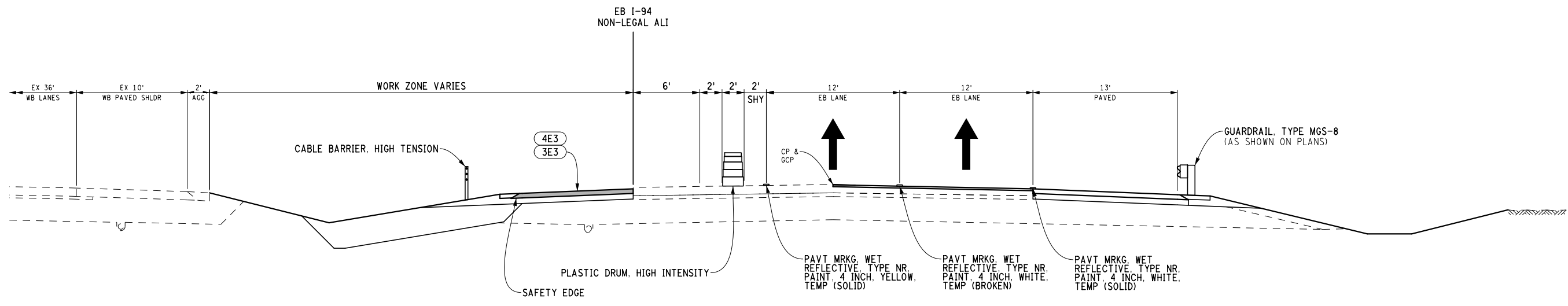
FINAL ROW PLAN REVISIONS		(SUBMITTAL DATE:)	
NO.	DATE	AUTH	DESCRIPTION



NO SCALE

DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
FILE: 119672_I94EB_MT_S+q1_Typ.dgn	TSC: KALAMAZOO

MAINTAINING TRAFFIC SHEET		DRAWING	SHEET
TYPICAL SECTION		194EB	SECT 1
STAGE 1		MT11YP	001
			138

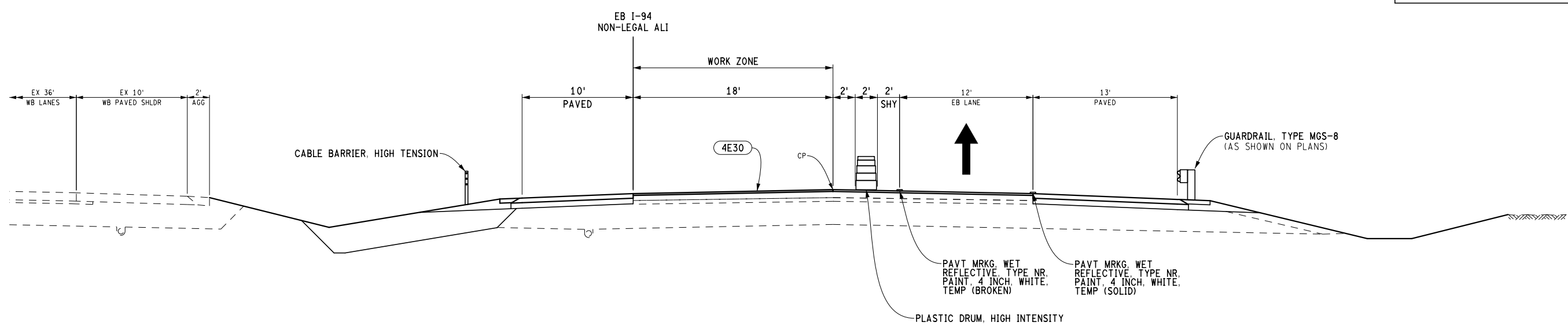


I-94 EB REHABILITATION STAGE 2a
 RECONSTRUCT MEDIAN SHOULDER TO LEVELING COURSE.
 PLACE CABLE BARRIER GUARDRAIL.

SECTION APPLIES TO:
 POB TO POE

STAGE 2 OVERVIEW

- 2a: MAINTAIN 2 LANES OF TRAFFIC ON THE OUTSIDE AND CENTER LANE. SHIFT TRAFFIC PER DRAWINGS MT_DET_001 AND MT_DET_003. RECONSTRUCT THE MEDIAN SHOULDER TO THE LEVELING COURSE.
- 2b: MAINTAIN 1 LANE OF TRAFFIC ON THE OUTSIDE LANE. THIS STAGE IS ONLY ALLOWED FOR NIGHTTIME CLOSURES IN AREAS OF ACTIVE WORK AS DIRECTED BY THE ENGINEER. COLD MILL AND RESURFACE THE MEDIAN LANE AND CENTER LANE TO THE CROWN POINT UP TO THE LEVELING COURSE.



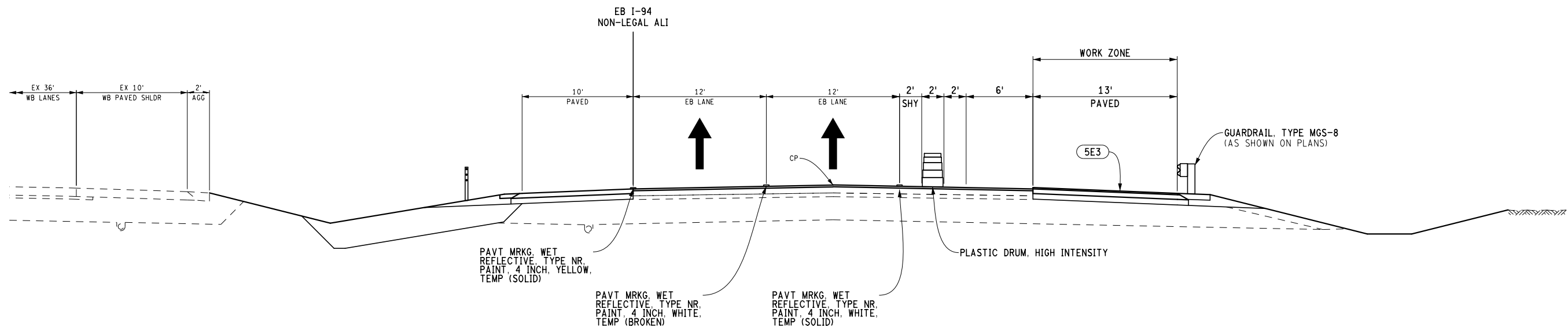
I-94 EB REHABILITATION STAGE 2b ¹

NIGHTTIME WORK ONLY
 MILL & RESURFACE MEDIAN LANE & CENTER LANE TO CROWN POINT TO LEVELING COURSE.

SECTION APPLIES TO:
 POB TO POE

¹ LIMIT DOUBLE LANE CLOSURES TO AREAS WHERE ACTIVE WORK IS TAKING PLACE AS DIRECTED BY THE ENGINEER.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								MDOT Michigan Department of Transportation	NO SCALE	DATE: 08/03/16		CS: 11015		MAINTAINING TRAFFIC SHEET		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: WILCOX	JN: 119672A	TYPICAL SECTION		194EB	SECT 1		
								FILE: 119672_194EB_MT_Stg2_Typ.dgn	TSC: KALAMAZOO	STAGE 2		MT2TYP	001	139			

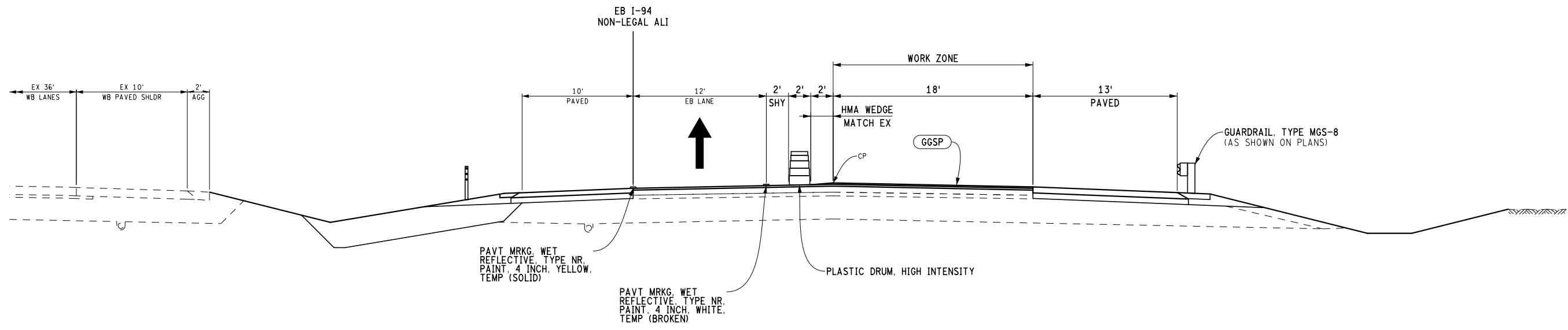


I-94 EB REHABILITATION STAGE 3a
 PLACE TOP COURSE AND MILL SHOULDER CORRUGATIONS ON THE OUTSIDE SHOULDER.
 APPLIES TO:
 POB TO POE

STAGE 3 OVERVIEW

3a: MAINTAIN 2 LANES OF TRAFFIC ON THE MEDIAN AND CENTER LANE. SHIFT TRAFFIC PER DRAWINGS MT_DET_001 AND MT_DET_002. PLACE THE TOP COURSE ON THE OUTSIDE SHOULDER.

3b: MAINTAIN 1 LANE OF TRAFFIC ON THE MEDIAN LANE. THIS STAGE IS ONLY ALLOWED FOR NIGHTTIME CLOSURES IN AREAS OF ACTIVE WORK AS DIRECTED BY THE ENGINEER. PLACE THE TOP COURSE ON THE OUTSIDE LANE AND CENTER LANE TO THE CROWN POINT.



I-94 EB REHABILITATION STAGE 3b^①
 NIGHTTIME WORK ONLY
 PLACE TOP COURSE ON THE OUTSIDE LANE AND CENTER LANE TO THE CROWN POINT.
 APPLIES TO:
 POB TO POE

① LIMIT DOUBLE LANE CLOSURES TO AREAS WHERE ACTIVE WORK IS TAKING PLACE AS DIRECTED BY THE ENGINEER.

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

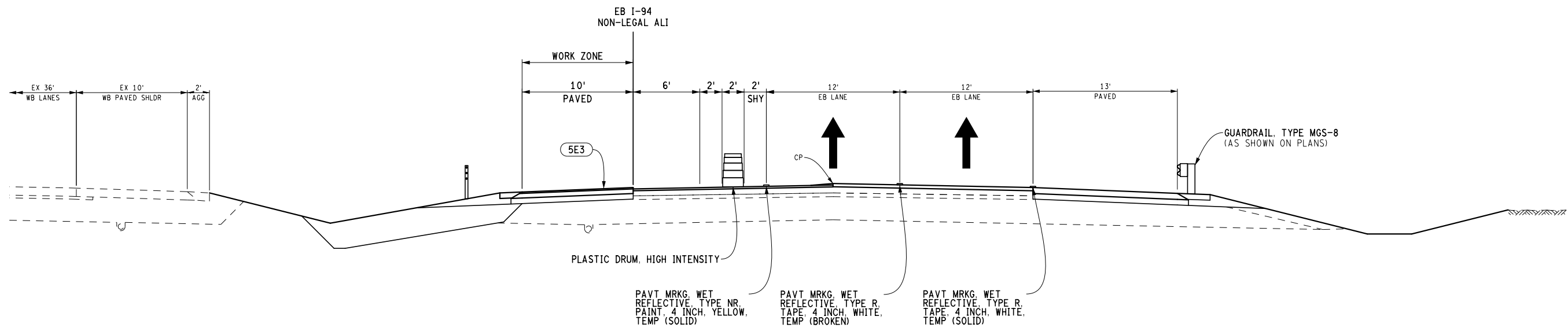


NO SCALE

DATE: 08/03/16
 DESIGN UNIT: WILCOX
 FILE: 119672_I94EB_MT_Stg3_Typ.dgn
 TSC: KALAMAZOO

CS: 11015
 JN: 119672A

DRAWING		SHEET	
MAINTAINING TRAFFIC SHEET		194EB	
TYPICAL SECTION		MT3TYP	
STAGE 3		003	
		140	

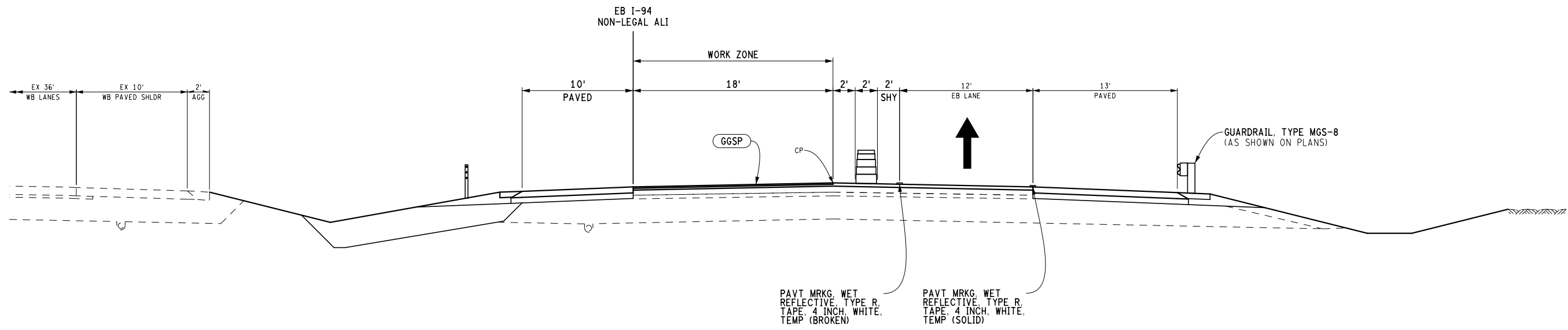


I-94 EB REHABILITATION STAGE 4a
 PLACE TOP COURSE AND MILL SHOULDER CORRUGATIONS ON THE MEDIAN SHOULDER.
 APPLIES TO:
 POB TO POE

STAGE 4 OVERVIEW

4a: MAINTAIN 2 LANES OF TRAFFIC ON THE OUTSIDE AND CENTER LANE. SHIFT TRAFFIC PER DRAWINGS MT_DET_001 AND MT_DET_003. PLACE THE TOP COURSE ON THE MEDIAN SHOULDER.

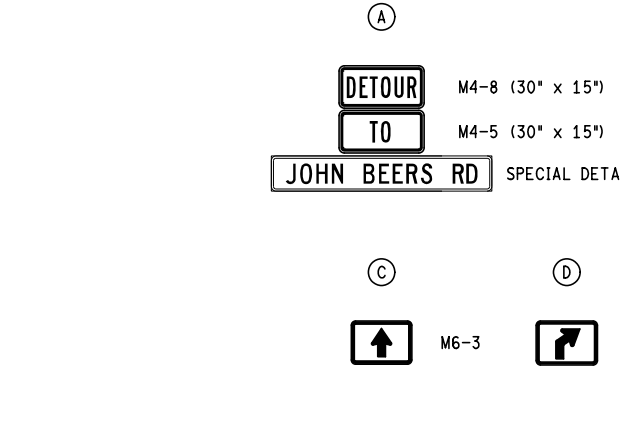
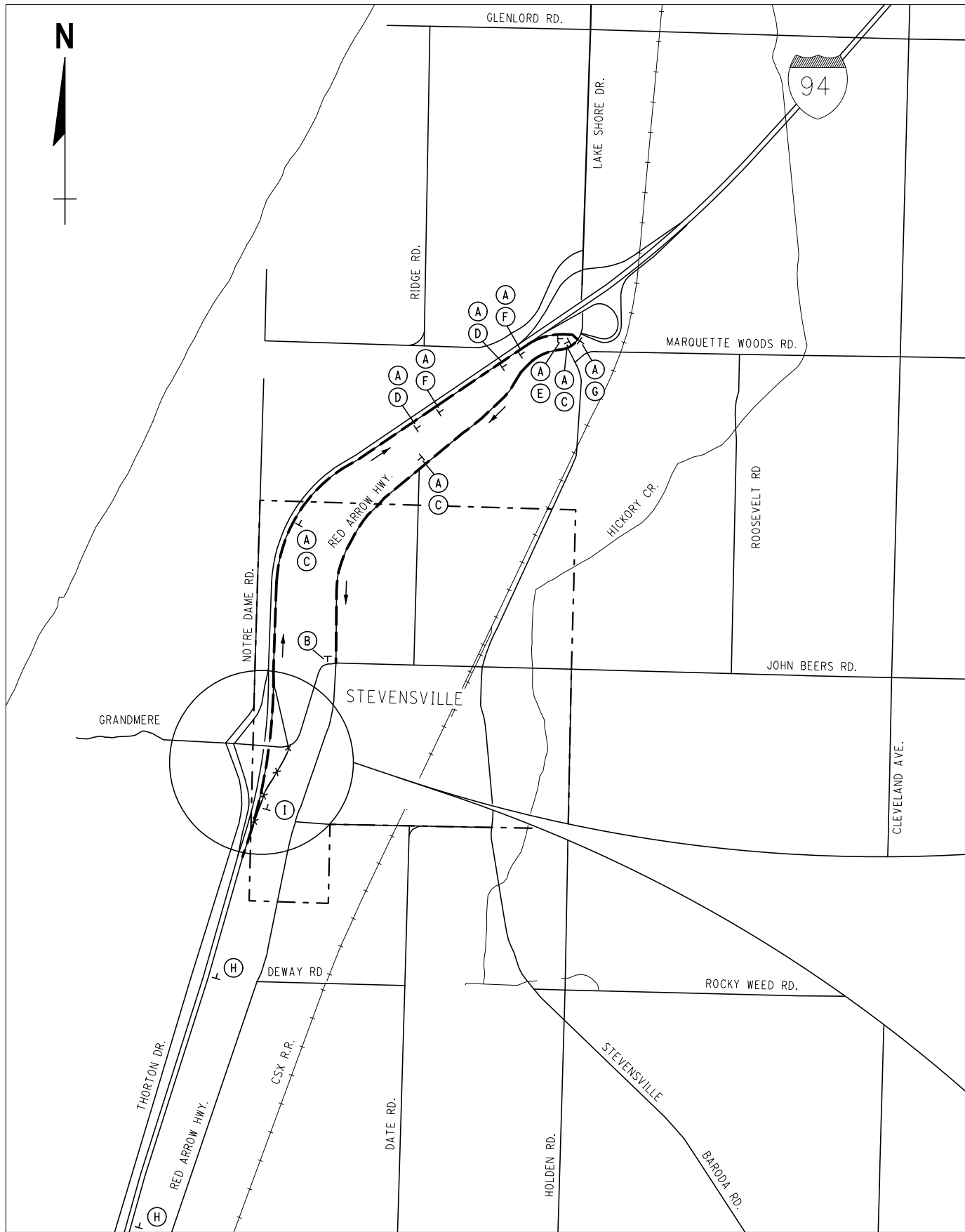
4b: MAINTAIN 1 LANE OF TRAFFIC ON THE OUTSIDE LANE. THIS STAGE IS ONLY ALLOWED FOR NIGHTTIME CLOSURES IN AREAS OF ACTIVE WORK AS DIRECTED BY THE ENGINEER. PLACE THE TOP COURSE ON THE MEDIAN LANE AND CENTER LANE TO THE CROWN POINT.



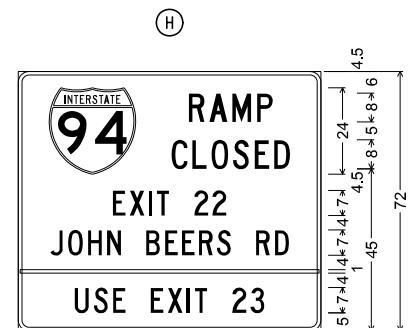
I-94 EB REHABILITATION STAGE 4b^①
 NIGHTTIME WORK ONLY
 PLACE TOP COURSE ON THE MEDIAN LANE AND CENTER LANE TO THE CROWN POINT.
 APPLIES TO:
 POB TO POE

① LIMIT DOUBLE LANE CLOSURES TO AREAS WHERE ACTIVE WORK IS TAKING PLACE AS DIRECTED BY THE ENGINEER.

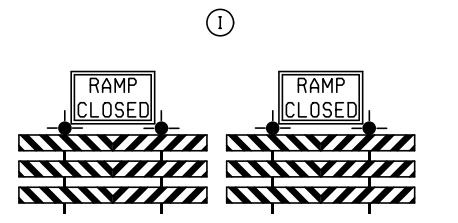
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								MDOT Michigan Department of Transportation	NO SCALE	DATE: 08/03/16	CS: 11015	MAINTAINING TRAFFIC SHEET		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION					194EB MT4TYP 003	SECT 1		
								FILE: 119672_I94EB_MT_Stg4_Typ.dgn	DESIGN UNIT: WILCOX	JN: 119672A	TSC: KALAMAZOO	TYPICAL SECTION			
												STAGE 4	141		



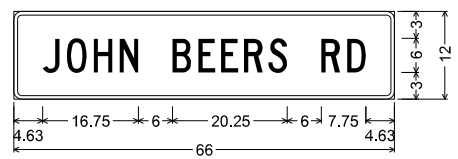
(ALL SIGN SIZES 30" x 21")



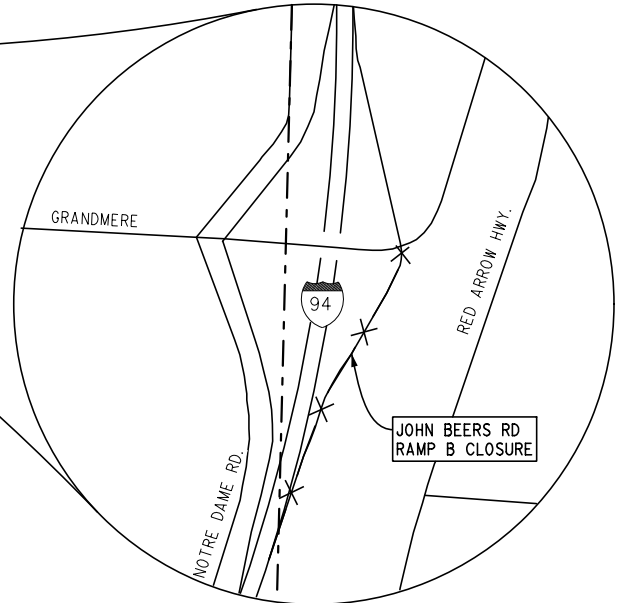
Special Detail #1;
 3.0" Radius, 1.0" Border, Black on Orange;
 [RAMP] C; [CLOSED] C;
 [EXIT 22] C; [JOHN BEERS RD] C;
 [USE EXIT 23] C;



2-TYPE III, HIGH INTENSITY BARRICADES, LIGHTED
 2-R11-2 MOD (48" X 30")
 MOUNTED ON SEPARATE SUPPORTS
 BEHIND THE BARRICADES



SPECIAL DETAIL #1



INTERCHANGE DETAIL

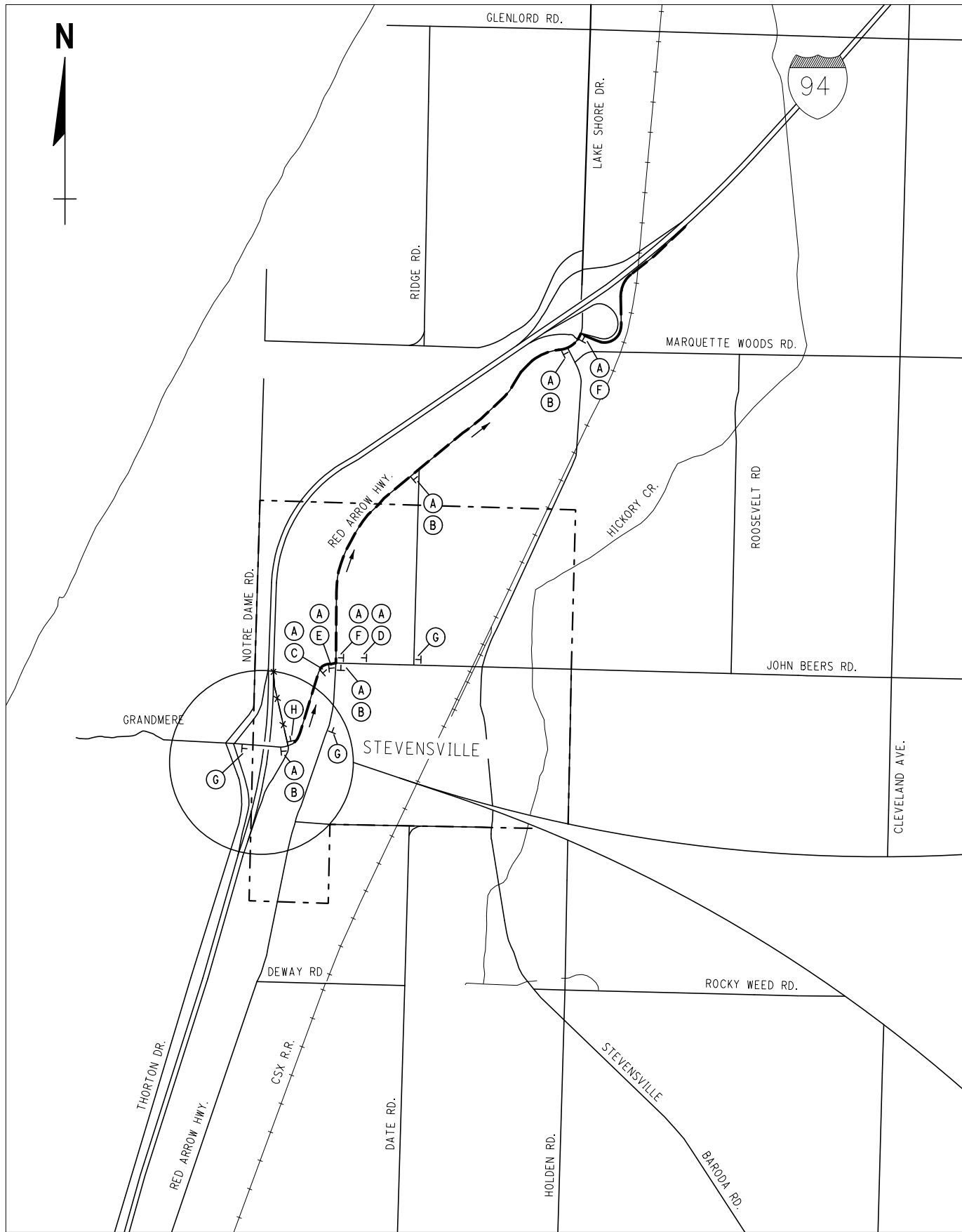
FINAL ROW PLAN REVISIONS				(SUBMITTAL DATE:)			
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



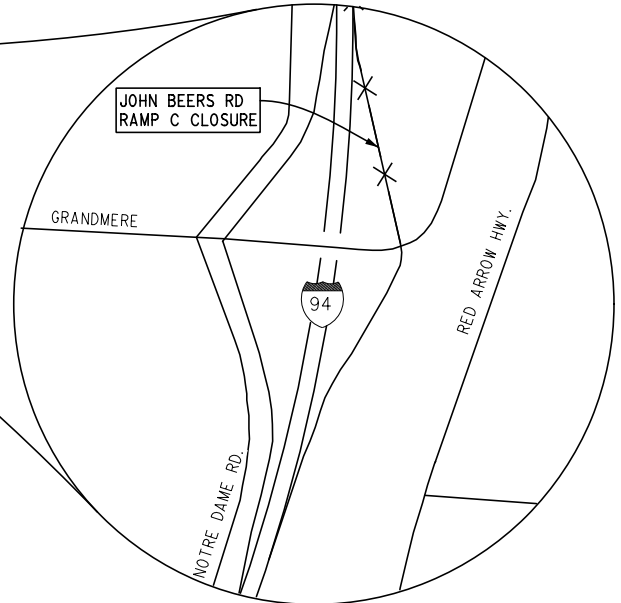
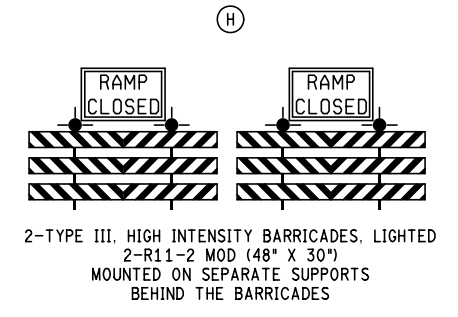
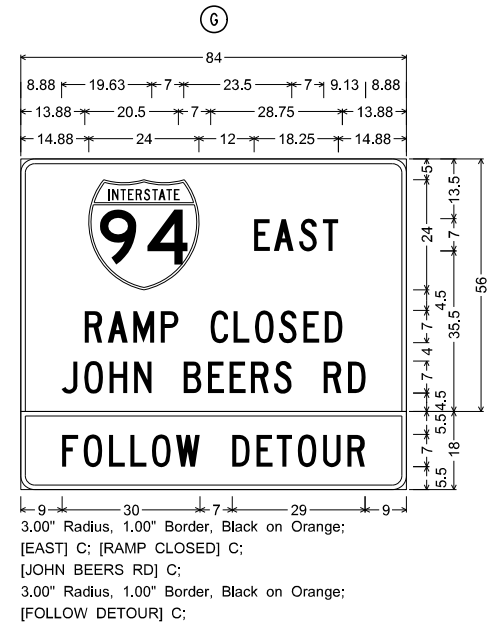
NO SCALE

DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
FILE: 119672_194EB_MT_DETR_001.dgn	TSC: KALAMAZOO

DETOUR SHEET		DRAWING	SHEET
JOHN BEERS RD RAMP B CLOSURE		194EB	SECT 1
		MTDETR	001
			142



- (A) **DETOUR TO EAST** M4-8 (30" X 15")
M4-5a (30" X 15")
M3-2a (30" X 15")
INTERSTATE 94 M1-1 (30")
 - (B) M6-3
 - (C) M5-1(L) M5-1(R) M6-1(L) M6-1(R)
- (ALL SIGN SIZES 30" x 21")



INTERCHANGE DETAIL

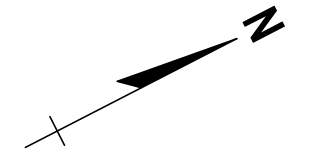
FINAL ROW PLAN REVISIONS				(SUBMITTAL DATE:)			
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



NO SCALE

DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
FILE: 119672_194EB_MT_DETR_002.dgn	TSC: KALAMAZOO

DETOUR SHEET		DRAWING	SHEET
JOHN BEERS RD RAMP C CLOSURE		194EB	SECT 1
		MTDETR	002
			143



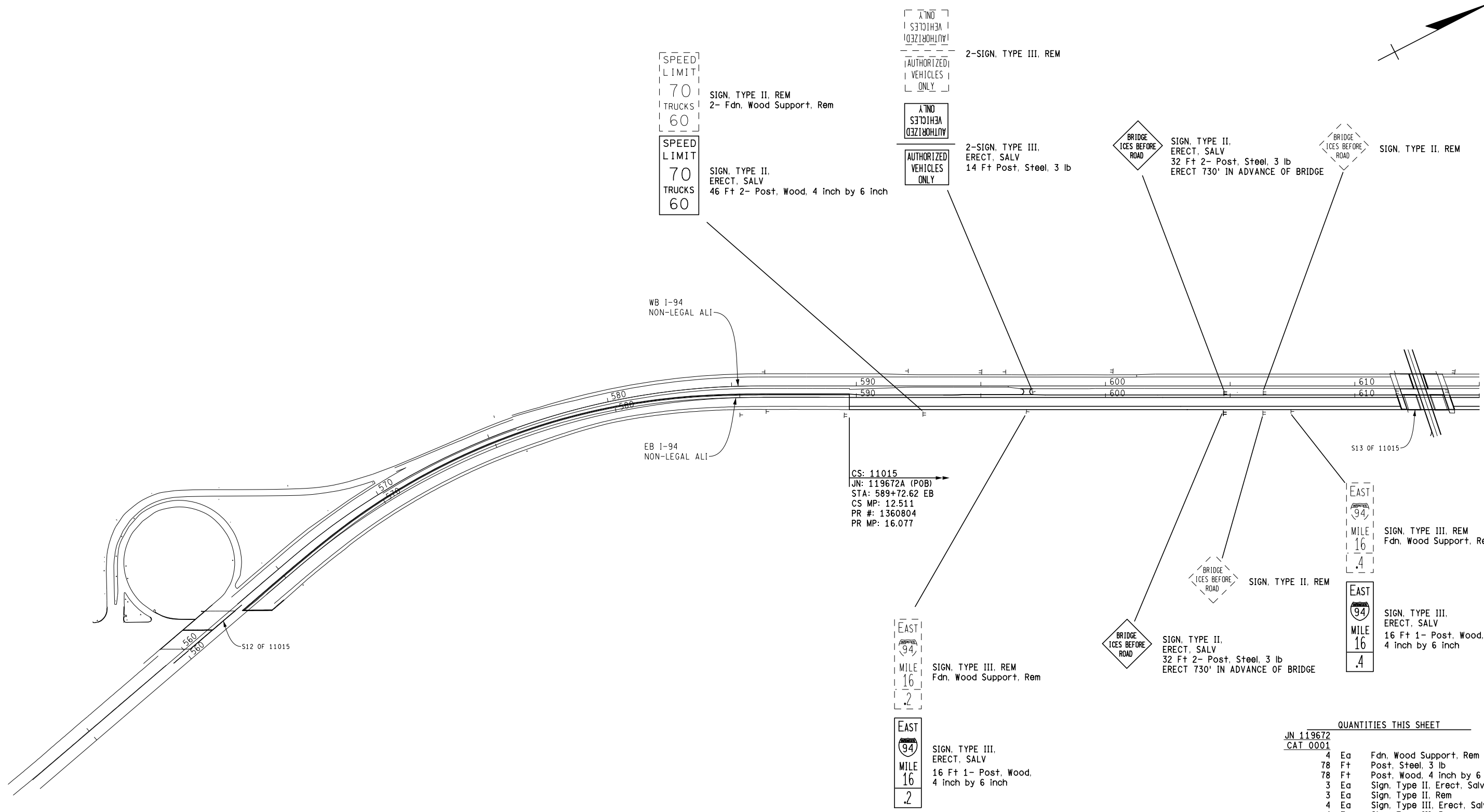
RAMBO RD

RED ARROW HWY

I-94

I-94

RED ARROW HWY



SPEED LIMIT 70 TRUCKS 60
SIGN, TYPE II, REM
2- Fdn, Wood Support, Rem

SPEED LIMIT 70 TRUCKS 60
SIGN, TYPE II, ERECT, SALV
46 Ft 2- Post, Wood, 4 inch by 6 inch

AUTHORIZED VEHICLES ONLY
2-SIGN, TYPE III, REM

AUTHORIZED VEHICLES ONLY
2-SIGN, TYPE III, ERECT, SALV
14 Ft Post, Steel, 3 lb

BRIDGE ICES BEFORE ROAD
SIGN, TYPE II, ERECT, SALV
32 Ft 2- Post, Steel, 3 lb
ERECT 730' IN ADVANCE OF BRIDGE

BRIDGE ICES BEFORE ROAD
SIGN, TYPE II, REM

WB I-94 NON-LEGAL ALI

EB I-94 NON-LEGAL ALI

CS: 11015
JN: 119672A (POB)
STA: 589+72.62 EB
CS MP: 12.511
PR #: 1360804
PR MP: 16.077

EAST
MILE 16.4
SIGN, TYPE III, REM
Fdn, Wood Support, Rem

BRIDGE ICES BEFORE ROAD
SIGN, TYPE II, REM
BRIDGE ICES BEFORE ROAD
SIGN, TYPE II, ERECT, SALV
32 Ft 2- Post, Steel, 3 lb
ERECT 730' IN ADVANCE OF BRIDGE

EAST
MILE 16.4
SIGN, TYPE III, ERECT, SALV
16 Ft 1- Post, Wood, 4 inch by 6 inch

EAST
MILE 16.2
SIGN, TYPE III, REM
Fdn, Wood Support, Rem

EAST
MILE 16.2
SIGN, TYPE III, ERECT, SALV
16 Ft 1- Post, Wood, 4 inch by 6 inch

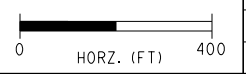
QUANTITIES THIS SHEET

JN 119672 CAT 0001		
4	Ea	Fdn, Wood Support, Rem
78	Ft	Post, Steel, 3 lb
78	Ft	Post, Wood, 4 inch by 6 inch
3	Ea	Sign, Type II, ERECT, SALV
3	Ea	Sign, Type II, Rem
4	Ea	Sign, Type III, ERECT, SALV
4	Ea	Sign, Type III, Rem

NOTE:
EXISTING SIGNS ON WB I-94 & I-94 RAMPS NOT SHOWN SHALL BE RETAINED.

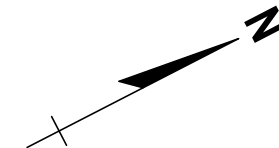
RAMBO RD

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



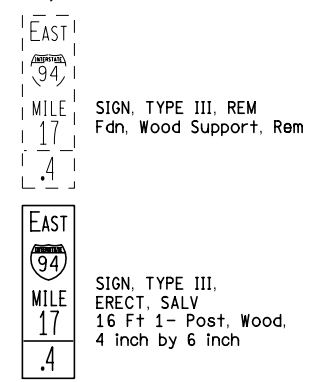
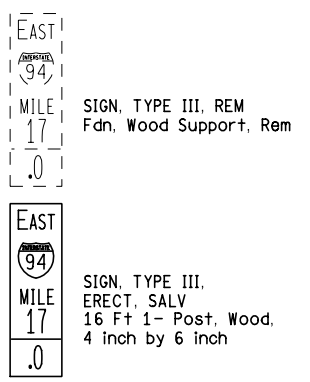
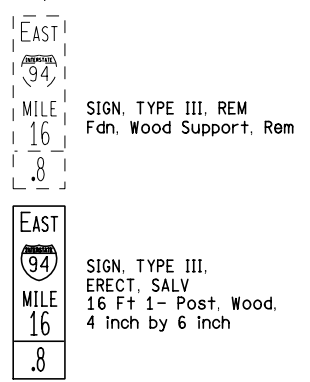
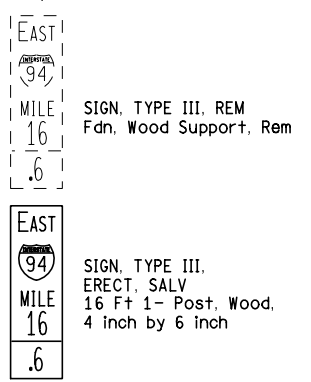
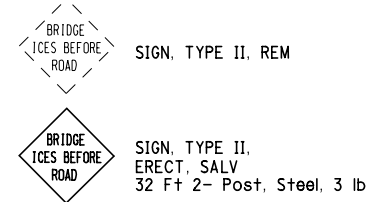
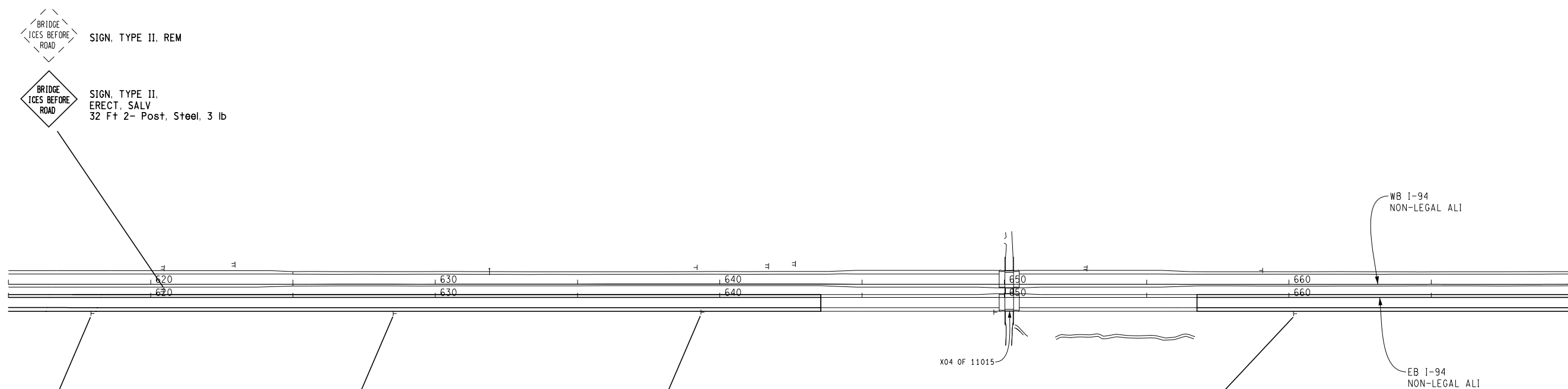
DATE: 08/03/16	CS: 11015	PERMANENT SIGNING SHEET STA 589+72.62 (POB) TO STA 615+00	DRAWING	SHEET
DESIGN UNIT: WILCOX	JN: 119672A		194EB SIGN 001	SECT 1 144
FILE: 119672_194EB_SIGN_001.dgn		TSC: KALAMAZOO		

LOST DUNES



I-94

I-94



WB I-94
NON-LEGAL ALI

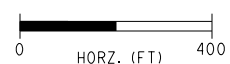
EB I-94
NON-LEGAL ALI

QUANTITIES THIS SHEET

JN 119672 CAT 0001		
4	Ea	Fdn, Wood Support, Rem
32	Ft	Post, Steel, 3 lb
64	Ft	Post, Wood, 4 inch by 6 inch
1	Ea	Sign, Type II, Erect, Salv
1	Ea	Sign, Type II, Rem
4	Ea	Sign, Type III, Erect, Salv
4	Ea	Sign, Type III, Rem

NOTE:
EXISTING SIGNS ON WB I-94 & I-94 RAMPS NOT SHOWN SHALL BE RETAINED.

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

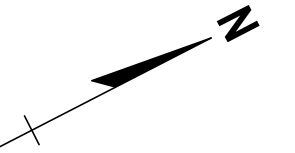


DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_I94EB_SIGN_002.dgn

CS: 11015
 JN: 119672A

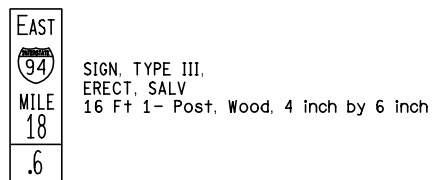
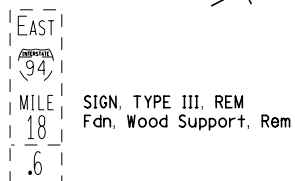
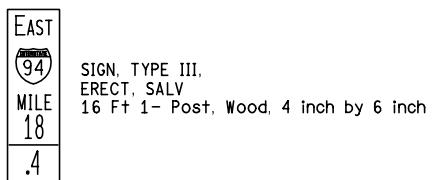
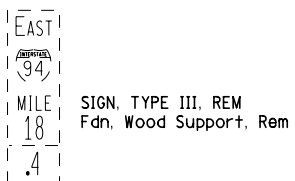
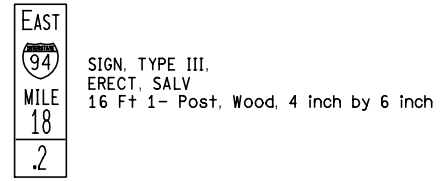
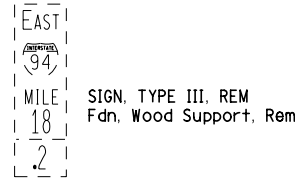
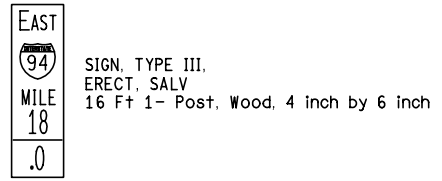
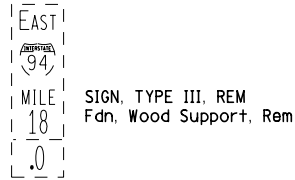
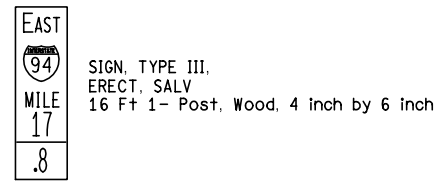
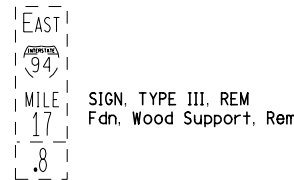
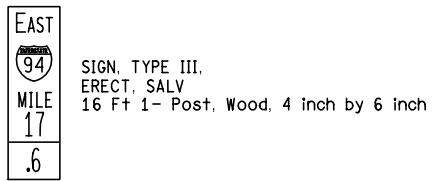
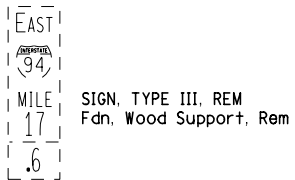
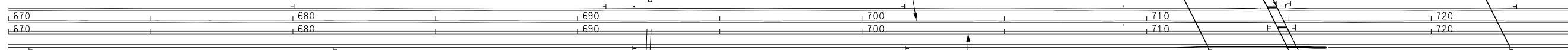
PERMANENT SIGNING SHEET
 STA 615+00 TO STA 670+00

DRAWING SHEET
 194EB SIGN 002
 SECT 1
 145



I-94

I-94



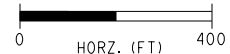
QUANTITIES THIS SHEET

NO.	UNIT	DESCRIPTION
6	Ea	Fdn. Wood Support, Rem
96	Ft	Post, Wood, 4 inch by 6 inch
6	Ea	Sign, Type III, Erect, Salv
6	Ea	Sign, Type III, Rem

NOTE:
EXISTING SIGNS ON WB I-94 & I-94 RAMPS NOT SHOWN SHALL BE RETAINED.

LIVINGSTON RD

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								DATE: 08/03/16		CS: 11015		PERMANENT SIGNING SHEET		DRAWING SHEET	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	DESIGN UNIT: WILCOX	JN: 119672A	STA 670+00 TO STA 725+00		194EB SIGN 003	SECT 1		
								TSC: KALAMAZOO					146		

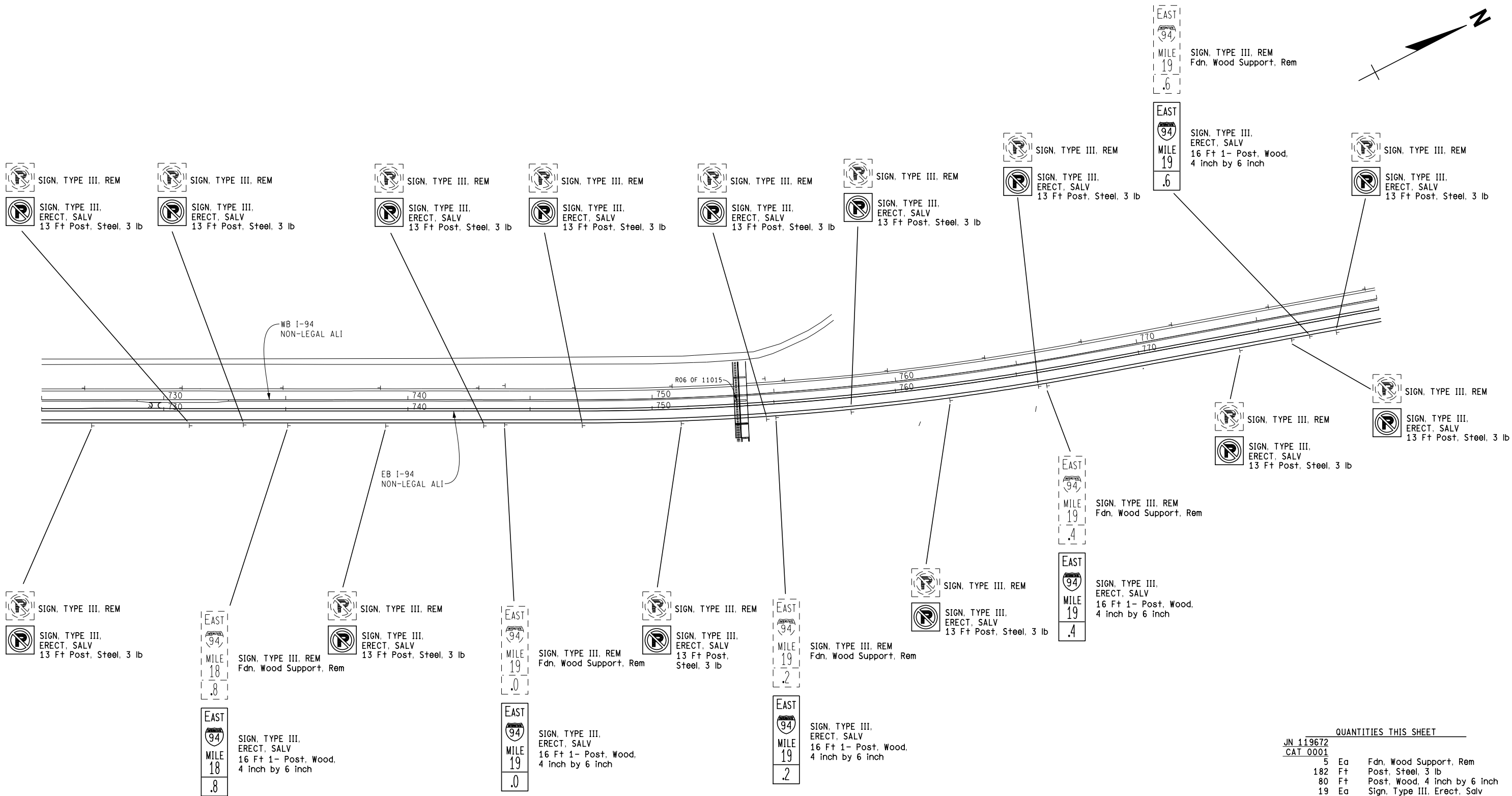


FILE: 119672_194EB_SIGN_003.dgn



I-94

I-94

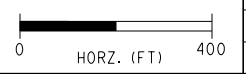


QUANTITIES THIS SHEET

JN 119672		
CAT 0001		
5	Ea	Fdn. Wood Support, Rem
182	Ft	Post, Steel, 3 lb
80	Ft	Post, Wood, 4 inch by 6 inch
19	Ea	Sign, Type III, Erect, Salv
19	Ea	Sign, Type III, Rem

NOTE:
EXISTING SIGNS ON WB I-94 & I-94 RAMPS NOT SHOWN SHALL BE RETAINED.

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

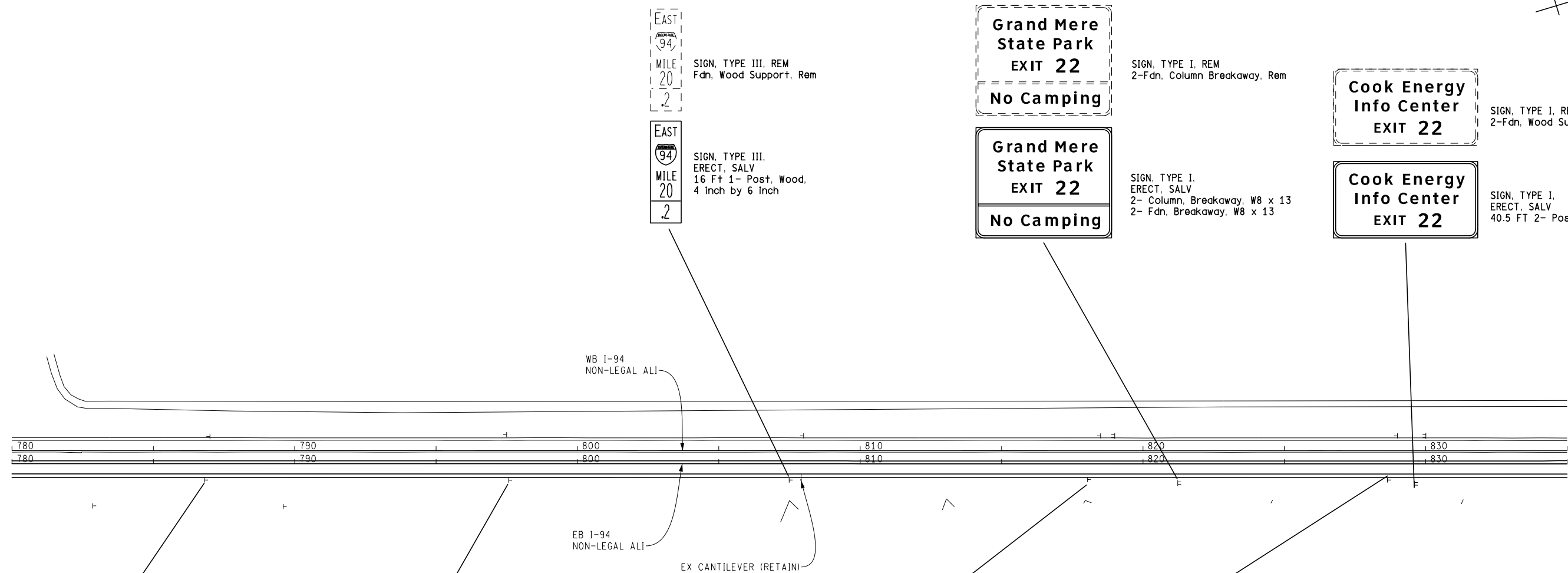


DATE: 08/03/16	CS: 11015	PERMANENT SIGNING SHEET	DRAWING	SHEET
DESIGN UNIT: WILCOX	JN: 119672A		194EB	SECT 1
TSC: KALAMAZOO	FILE: 119672_194EB_SIGN_004.dgn	STA 725+00 TO STA 780+00	SIGN	147
			004	



I-94

I-94



EAST
94
MILE
19
.8
SIGN, TYPE III, REM
Fdn, Wood Support, Rem

EAST
94
MILE
20
.0
SIGN, TYPE III, REM
Fdn, Wood Support, Rem

EAST
94
MILE
20
.4
SIGN, TYPE III, REM
Fdn, Wood Support, Rem

EAST
94
MILE
20
.6
SIGN, TYPE III, REM
Fdn, Wood Support, Rem

EAST
94
MILE
19
.8
SIGN, TYPE III,
ERECT, SALV
16 Ft 1- Post, Wood,
4 inch by 6 inch

EAST
94
MILE
20
.0
SIGN, TYPE III,
ERECT, SALV
16 Ft 1- Post, Wood,
4 inch by 6 inch

EAST
94
MILE
20
.4
SIGN, TYPE III,
ERECT, SALV
16 Ft 1- Post, Wood,
4 inch by 6 inch

EAST
94
MILE
20
.6
SIGN, TYPE III,
ERECT, SALV
16 Ft 1- Post, Wood,
4 inch by 6 inch

EAST
94
MILE
20
.2
SIGN, TYPE III, REM
Fdn, Wood Support, Rem

EAST
94
MILE
20
.2
SIGN, TYPE III,
ERECT, SALV
16 Ft 1- Post, Wood,
4 inch by 6 inch

Grand Mere
State Park
EXIT 22
No Camping

Grand Mere
State Park
EXIT 22
No Camping

Cook Energy
Info Center
EXIT 22

Cook Energy
Info Center
EXIT 22

SIGN, TYPE I, REM
2-Fdn, Column Breakaway, Rem

SIGN, TYPE I,
ERECT, SALV
2- Column, Breakaway, W8 x 13
2- Fdn, Breakaway, W8 x 13

SIGN, TYPE I, REM
2-Fdn, Wood Support, Rem

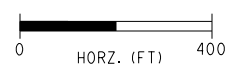
SIGN, TYPE I,
ERECT, SALV
40.5 FT 2- Post, Wood, 6 Inch by 8 Inch

QUANTITIES THIS SHEET

JN 119672 CAT 0001		
2	Ea	Column, Breakaway, W8 x 13
2	Ea	Fdn, Breakaway, W8 x 13
2	Ea	Fdn, Column Breakaway, Rem
7	Ea	Fdn, Wood Support, Rem
80	Ft	Post, Wood, 4 inch by 6 inch
41	Ft	Post, Wood, 6 inch by 8 inch
2	Ea	Sign, Type I, Erect, Salv
2	Ea	Sign, Type I, Rem
5	Ea	Sign, Type III, Erect, Salv
5	Ea	Sign, Type III, Rem

NOTE:
EXISTING SIGNS ON WB I-94 & I-94 RAMPS NOT SHOWN SHALL BE RETAINED.

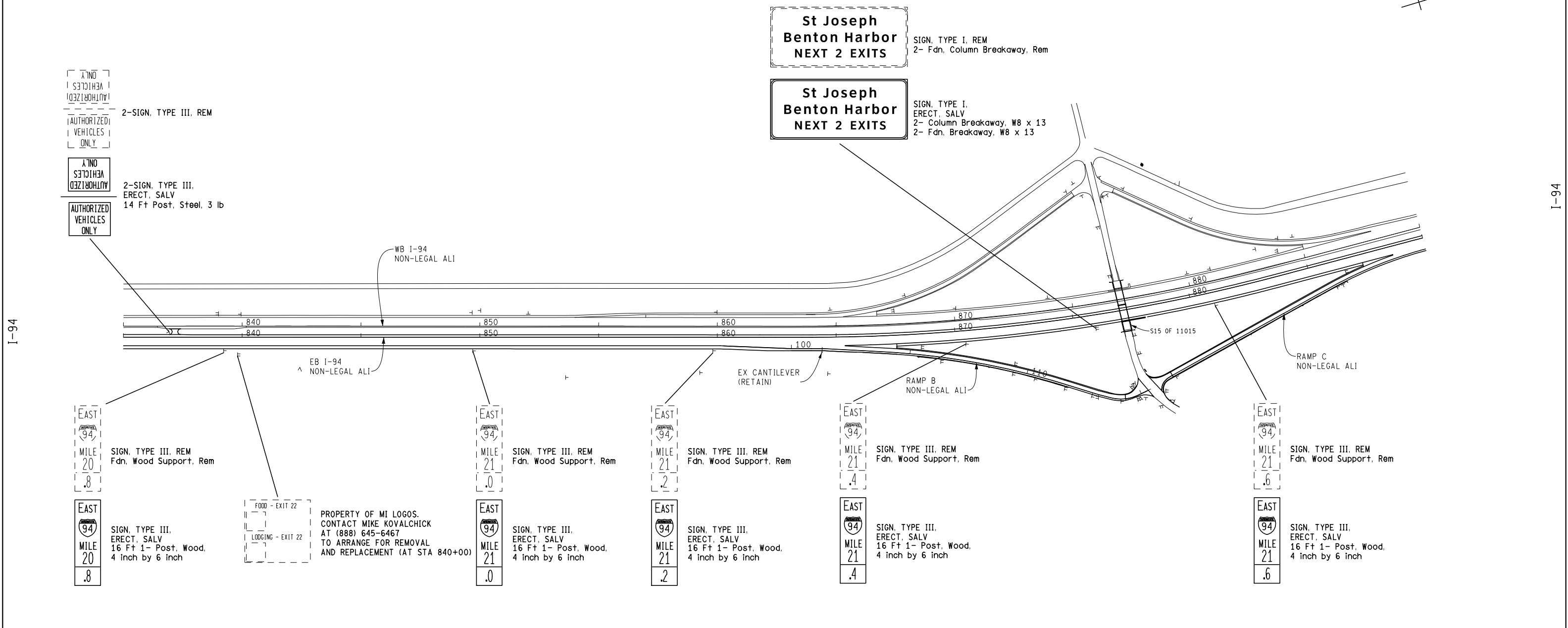
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO
FILE: 119672_I94EB_SIGN_005.dgn

CS: 11015
JN: 119672

PERMANENT SIGNING SHEET
STA 780+00 TO STA 835+00
DRAWING SHEET
194EB SIGN 005 148



I-94

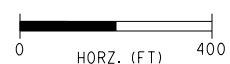
I-94

QUANTITIES THIS SHEET

JN 119672 CAT 0001		
2	Ea	Column, Breakaway, W8 x 13
2	Ea	Fdn, Breakaway, W8 x 13
2	Ea	Fdn, Column Breakaway, Rem
5	Ea	Fdn, Wood Support, Rem
14	Ft	Post, Steel, 3 lb
80	Ft	Post, Wood, 4 inch by 6 inch
1	Ea	Sign, Type I, Erect, Salv
1	Ea	Sign, Type I, Rem
7	Ea	Sign, Type III, Erect, Salv
7	Ea	Sign, Type III, Rem

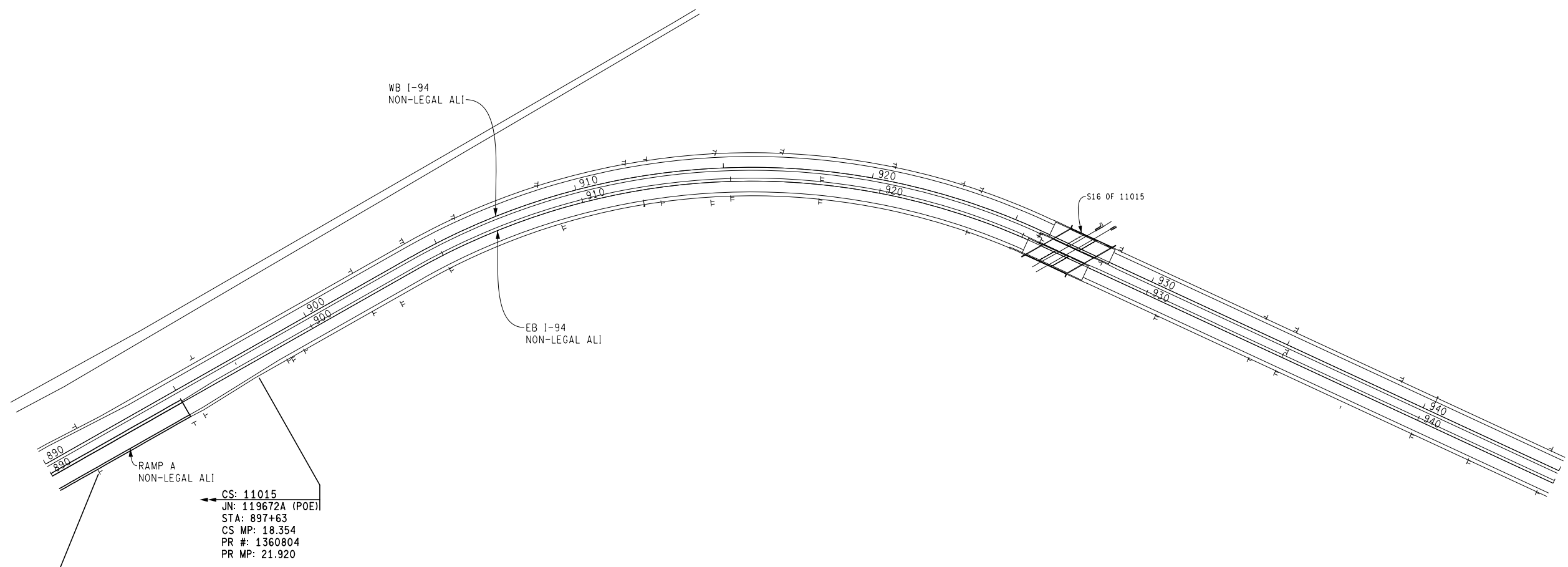
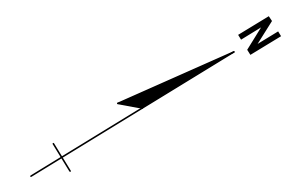
NOTE:
EXISTING SIGNS ON WB I-94 & I-94 RAMPS NOT SHOWN SHALL BE RETAINED. JOHN BEERS RD

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

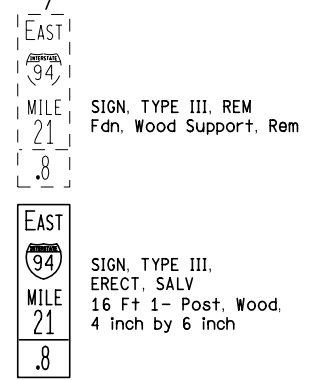


DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672
TSC: KALAMAZOO	FILE: 119672_I94EB_SIGN_006.dgn

PERMANENT SIGNING SHEET		DRAWING	SHEET
STA 835+00 TO STA 890+00		194EB	SECT 1
		006	149



CS: 11015
 JN: 119672A (POE)
 STA: 897+63
 CS MP: 18.354
 PR #: 1360804
 PR MP: 21.920

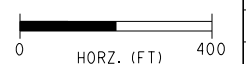


QUANTITIES THIS SHEET

JN 119672 CAT 0001		
1	Ea	Fdn, Wood Support, Rem
16	Ft	Post, Wood, 4 inch by 6 inch
1	Ea	Sign, Type III, Erect, Salv
1	Ea	Sign, Type III, Rem

NOTE:
 EXISTING SIGNS ON WB I-94 & I-94 RAMP NOT SHOWN SHALL BE RETAINED.

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



DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_194EB_SIGN_007.dgn

CS: 11015
 JN: 119672A

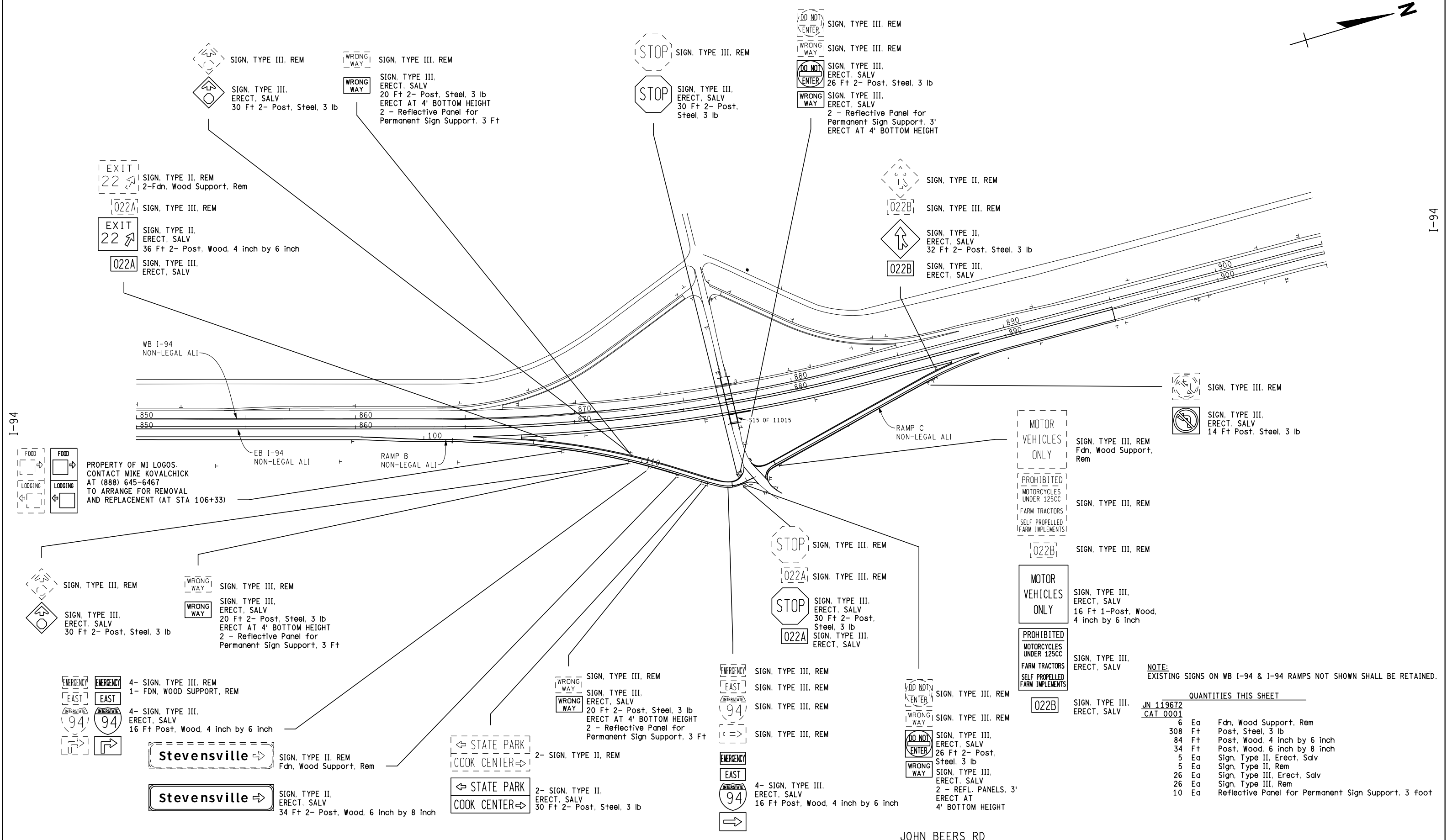
PERMANENT SIGNING SHEET
 STA 890+00 TO STA 895+00 (POE)

DRAWING SHEET
 194EB SIGN 007
 150



I-94

I-94



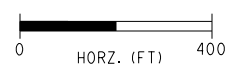
PROPERTY OF MI LOGOS.
CONTACT MIKE KOVALCHICK
AT (888) 645-6467
TO ARRANGE FOR REMOVAL
AND REPLACEMENT (AT STA 106+33)

NOTE:
EXISTING SIGNS ON WB I-94 & I-94 RAMPS NOT SHOWN SHALL BE RETAINED.

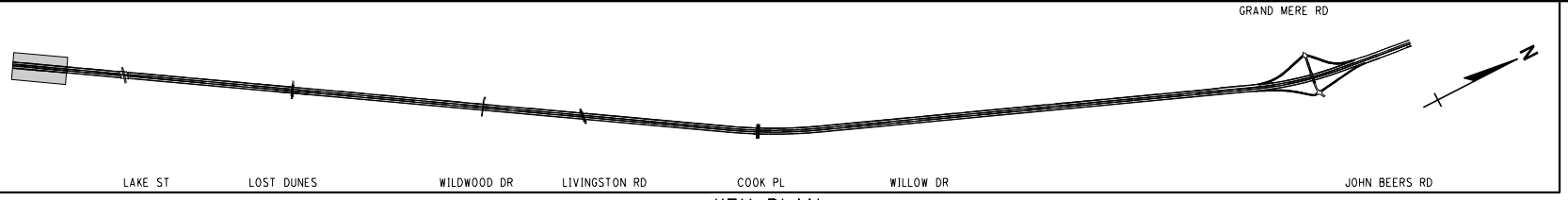
QUANTITIES THIS SHEET

QTY	UNIT	DESCRIPTION
6	Ea	Fdn. Wood Support, Rem
308	Ft	Post, Steel, 3 lb
84	Ft	Post, Wood, 4 inch by 6 inch
34	Ft	Post, Wood, 6 inch by 8 inch
5	Ea	Sign, Type II, Erect, Salv
5	Ea	Sign, Type II, Rem
26	Ea	Sign, Type III, Erect, Salv
26	Ea	Sign, Type III, Rem
10	Ea	Reflective Panel for Permanent Sign Support, 3 foot

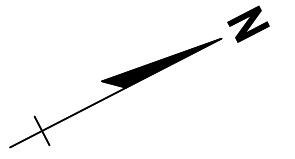
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



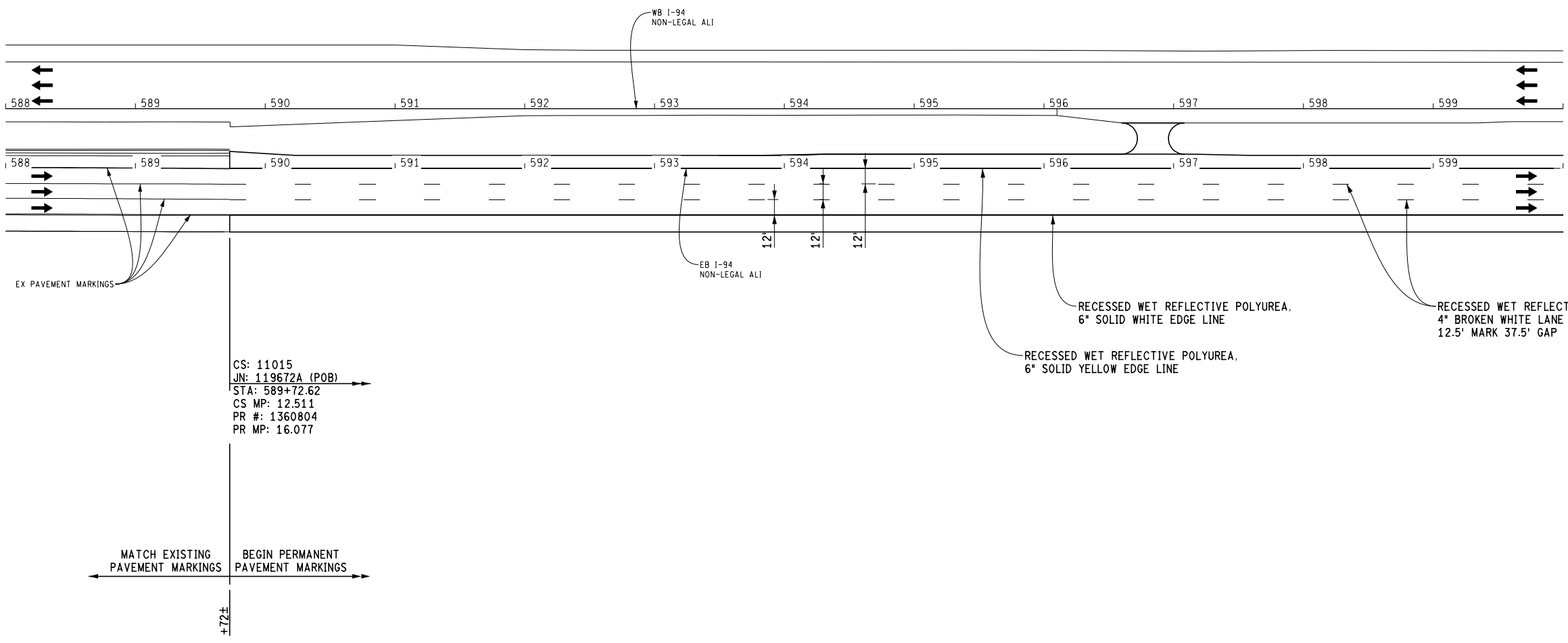
DATE: 08/03/16	CS: 11015	PERMANENT SIGNING SHEET	DRAWING	SHEET
DESIGN UNIT: WILCOX	JN: 119672A	RAMP B AND RAMP C	RAMP SIGN 008	SECT 1
TSC: KALAMAZOO	FILE: 119672_194EB_SIGN_008.dgn			151



KEY PLAN
NO SCALE



WB
I-94



WB
I-94

CS: 11015
JN: 119672A (POB)
STA: 589+72.62
CS MP: 12.511
PR #: 1360804
PR MP: 16.077

MATCH EXISTING PAVEMENT MARKINGS ←
→ BEGIN PERMANENT PAVEMENT MARKINGS

+72±

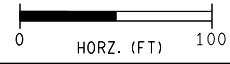
RECESSED WET REFLECTIVE POLYUREA,
6" SOLID WHITE EDGE LINE

RECESSED WET REFLECTIVE POLYUREA,
6" SOLID YELLOW EDGE LINE

RECESSED WET REFLECTIVE POLYUREA
4" BROKEN WHITE LANE LINE
12.5' MARK 37.5' GAP

NOTE:
ALL PAVEMENT MARKING QUANTITIES ARE LOCATED ON THE MISCELLANEOUS QUANTITIES SHEET. LANE WIDTHS, PAVEMENT MARKING MATERIAL AND CONFIGURATION ARE TYPICAL FOR LOCATIONS NOT DEPICTED ON PERMANENT PAVEMENT MARKING SHEETS.

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

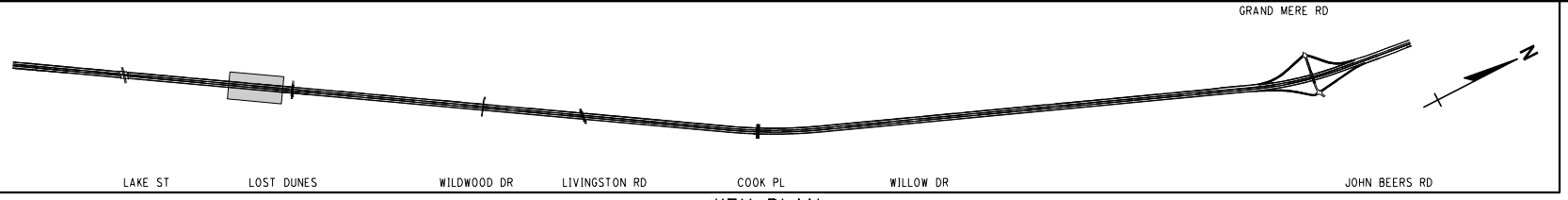


DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO
FILE: 119672_I94EB_PVMRK_001.dgn

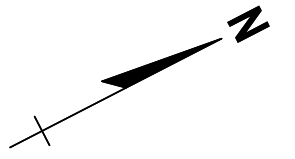
CS: 11015
JN: 119672A

PERMANENT PAVEMENT MARKING SHEET
STA 589+72.62 (POB) TO STA 600+00

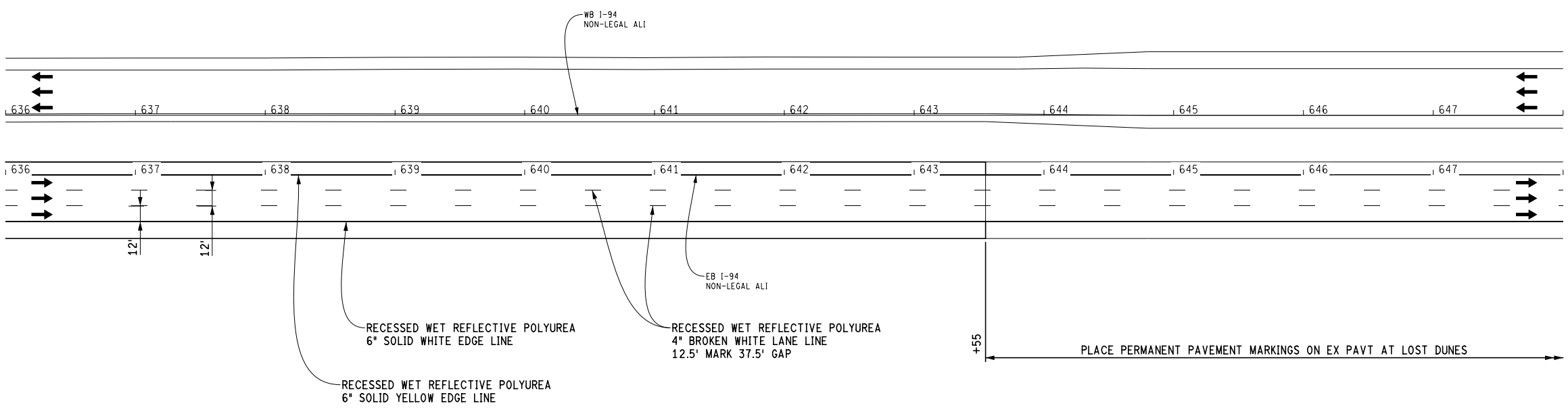
DRAWING SHEET
194EB PVMRK 001 SECT 1
152



KEY PLAN
NO SCALE



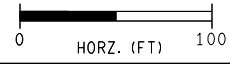
WB
I-94



WB
I-94

NOTE:
ALL PAVEMENT MARKING QUANTITIES ARE LOCATED ON THE MISCELLANEOUS QUANTITIES SHEET. LANE WIDTHS, PAVEMENT MARKING MATERIAL AND CONFIGURATION ARE TYPICAL FOR LOCATIONS NOT DEPICTED ON PERMANENT PAVEMENT MARKING SHEETS.

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

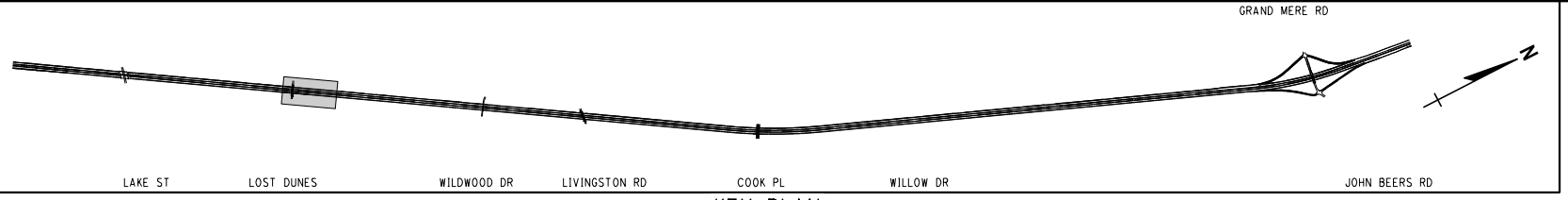


DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO
FILE: 119672_I94EB_PVMRK_005.dgn

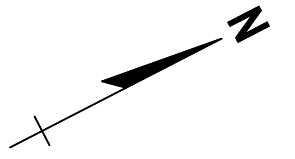
CS: 11015
JN: 119672A

PERMANENT PAVEMENT MARKING SHEET
STA 636+00 TO STA 648+00

DRAWING SHEET
194EB PVMRK 005 153

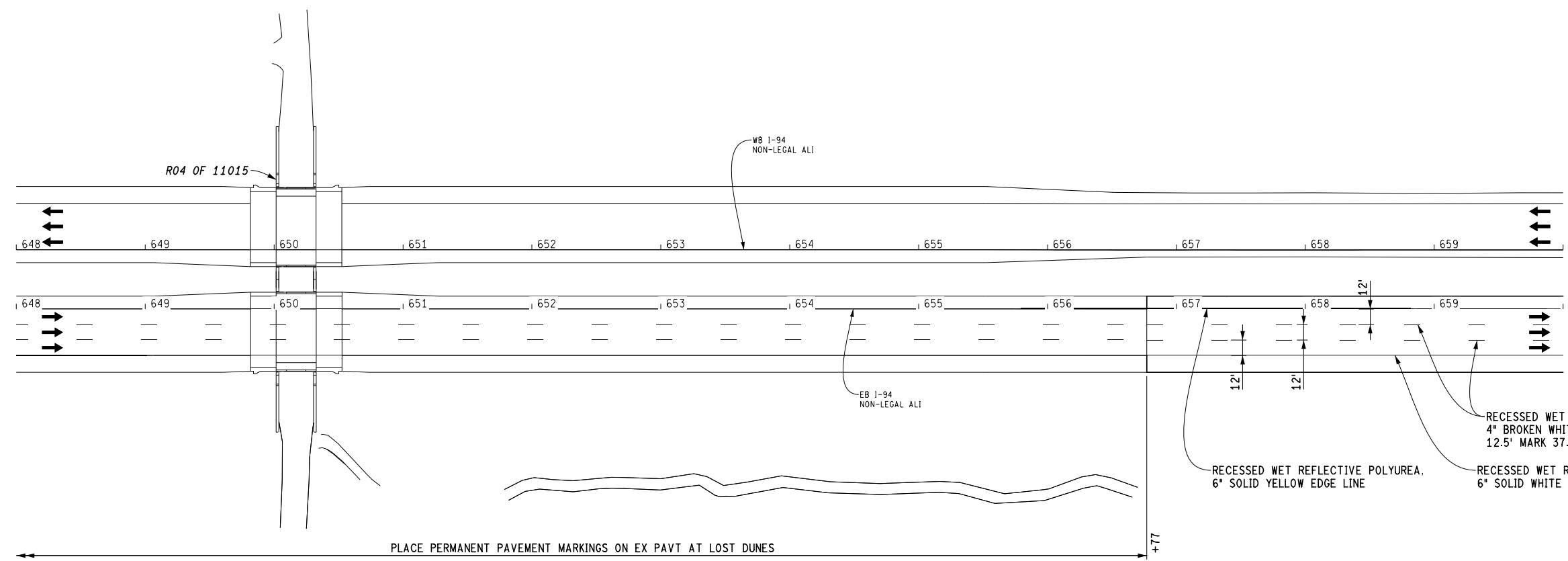


KEY PLAN
NO SCALE
LOST DUNES



- 1 Ea Culv, Slip End Sect, 1 on 6, 15 inch, Longit
- 50 Ft Sewer, Cl A, 15 inch, Tr Det A
- 1 Ea Sewer Tap, 10 inch
- 1 Ea Dr Structure Cover, Type G
- 1 Ea Dr Structure, 48 inch dia

WB
I-94



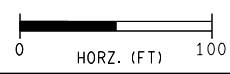
WB
I-94

PLACE PERMANENT PAVEMENT MARKINGS ON EX PAVT AT LOST DUNES

NOTE:
ALL PAVEMENT MARKING QUANTITIES ARE LOCATED ON THE MISCELLANEOUS QUANTITIES SHEET. LANE WIDTHS, PAVEMENT MARKING MATERIAL AND CONFIGURATION ARE TYPICAL FOR LOCATIONS NOT DEPICTED ON PERMANENT PAVEMENT MARKING SHEETS.

LOST DUNES

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

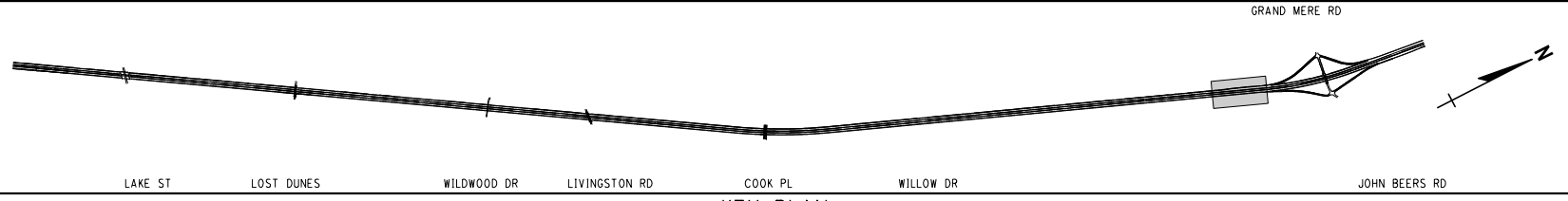


DATE: 08/03/16
DESIGN UNIT: WILCOX
TSC: KALAMAZOO
FILE: 119672_194EB_PVMRK_006.dgn

CS: 11015
JN: 119672A

PERMANENT PAVEMENT MARKING SHEET
STA 648+00 TO STA 660+00

DRAWING SHEET
194EB PVMRK 006 SECT 1
154



KEY PLAN
NO SCALE

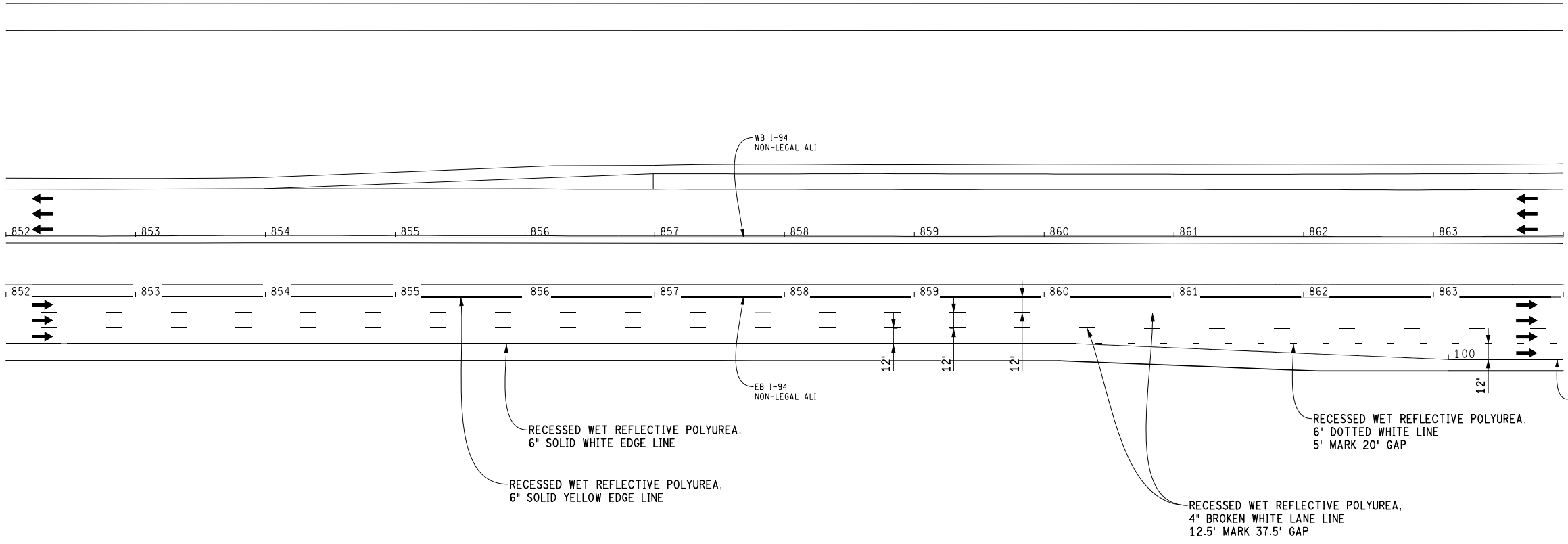


THORNTON DR

WB I-94
EB I-94

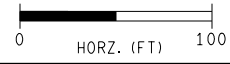
THORNTON DR

WB I-94
EB I-94
RAMP B

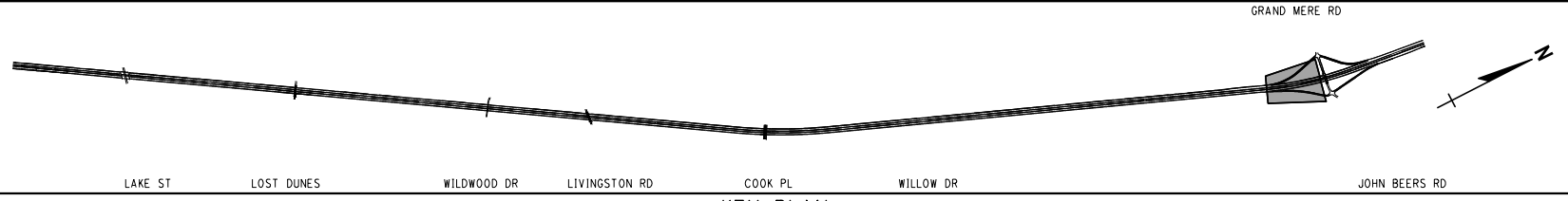


NOTE:
ALL PAVEMENT MARKING QUANTITIES ARE LOCATED ON THE MISCELLANEOUS QUANTITIES SHEET. LANE WIDTHS, PAVEMENT MARKING MATERIAL AND CONFIGURATION ARE TYPICAL FOR LOCATIONS NOT DEPICTED ON PERMANENT PAVEMENT MARKING SHEETS.

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



FILE: 119672_194EB_PVMRK_023.dgn	DATE: 08/03/16 DESIGN UNIT: WILCOX TSC: KALAMAZOO	CS: 11015 JN: 119672A	PERMANENT PAVEMENT MARKING SHEET STA 852+00 TO STA 864+00	DRAWING 194EB PVMRK 023	SHEET SECT 1 155
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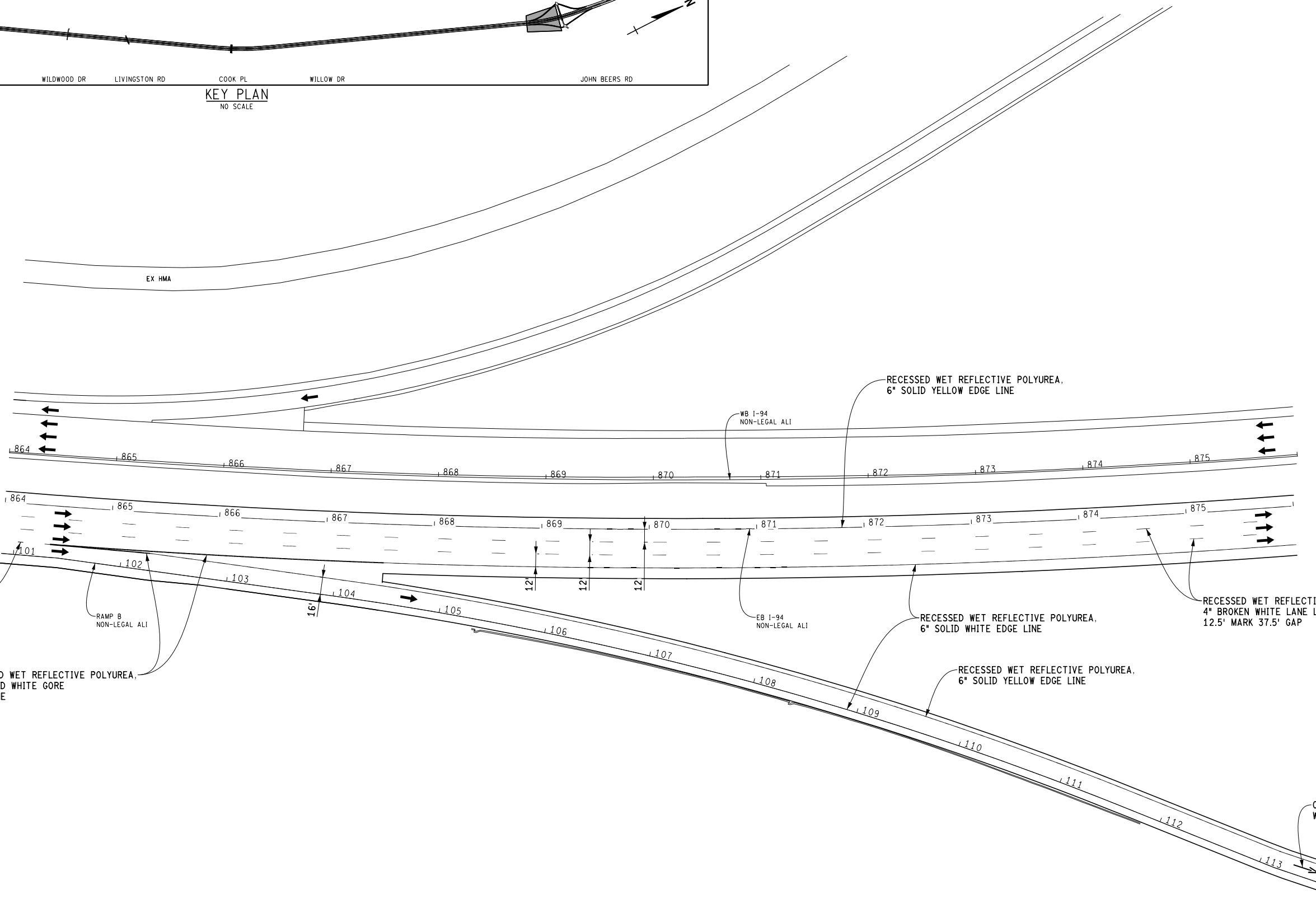
KEY PLAN
NO SCALE

THORNTON DR



THORNTON DR
RAMP A
WB I-94
RAMP B
EB I-94

WB I-94
RAMP A
THORNTON DR
RAMP B
EB I-94



RECESSED WET REFLECTIVE POLYUREA,
6" DOTTED WHITE LINE
5' MARK 20' GAP

RECESSED WET REFLECTIVE POLYUREA,
12" SOLID WHITE GORE
EDGE LINE

RAMP B
NON-LEGAL ALI

WB I-94
NON-LEGAL ALI

EB I-94
NON-LEGAL ALI

RECESSED WET REFLECTIVE POLYUREA,
6" SOLID YELLOW EDGE LINE

RECESSED WET REFLECTIVE POLYUREA,
6" SOLID WHITE EDGE LINE

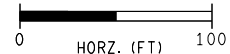
RECESSED WET REFLECTIVE POLYUREA,
6" SOLID YELLOW EDGE LINE

RECESSED WET REFLECTIVE POLYUREA,
4" BROKEN WHITE LANE LINE
12.5' MARK 37.5' GAP

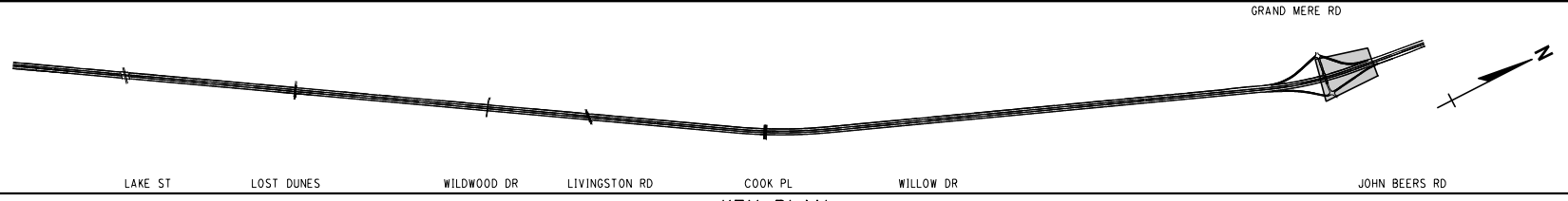
OVERLAY COLD PLASTIC,
WRONG WAY ARROW

NOTE:
ALL PAVEMENT MARKING QUANTITIES ARE LOCATED ON
THE MISCELLANEOUS QUANTITIES SHEET. LANE WIDTHS,
PAVEMENT MARKING MATERIAL AND CONFIGURATION ARE
TYPICAL FOR LOCATIONS NOT DEPICTED ON PERMANENT
PAVEMENT MARKING SHEETS.

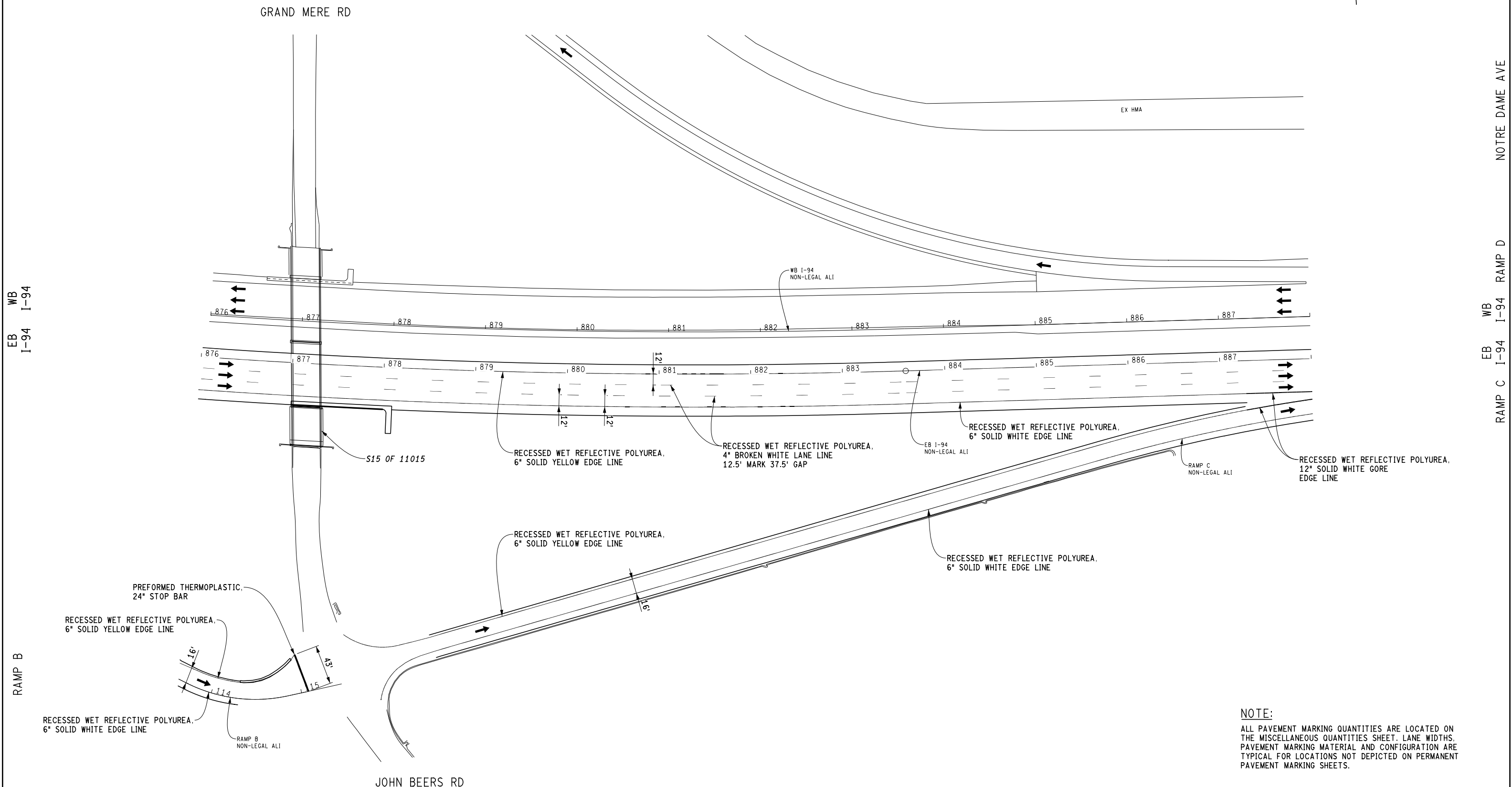
FINAL ROW PLAN REVISIONS				(SUBMITTAL DATE:)			
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



DATE: 08/03/16	CS: 11015	PERMANENT PAVEMENT MARKING SHEET	DRAWING	SHEET
DESIGN UNIT: WILCOX	JN: 119672A		194EB PVMRK 024	SECT 1
TSC: KALAMAZOO	FILE: 119672_194EB_PVMRK_024.dgn	STA 864+00 TO STA 876+00		156

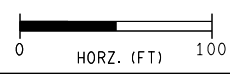


KEY PLAN
NO SCALE



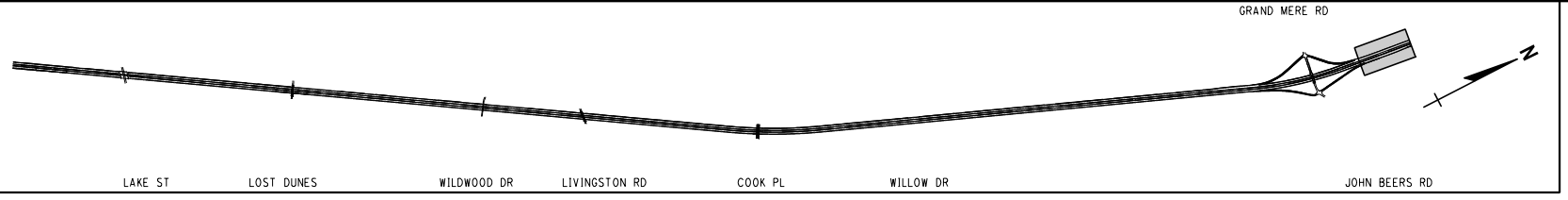
NOTE:
ALL PAVEMENT MARKING QUANTITIES ARE LOCATED ON THE MISCELLANEOUS QUANTITIES SHEET. LANE WIDTHS, PAVEMENT MARKING MATERIAL AND CONFIGURATION ARE TYPICAL FOR LOCATIONS NOT DEPICTED ON PERMANENT PAVEMENT MARKING SHEETS.

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



DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
TSC: KALAMAZOO	

PERMANENT PAVEMENT MARKING SHEET		DRAWING	SHEET
STA 876+00 TO STA 888+00		194EB	SECT 1
		PVMRK	157
		025	



NO SCALE

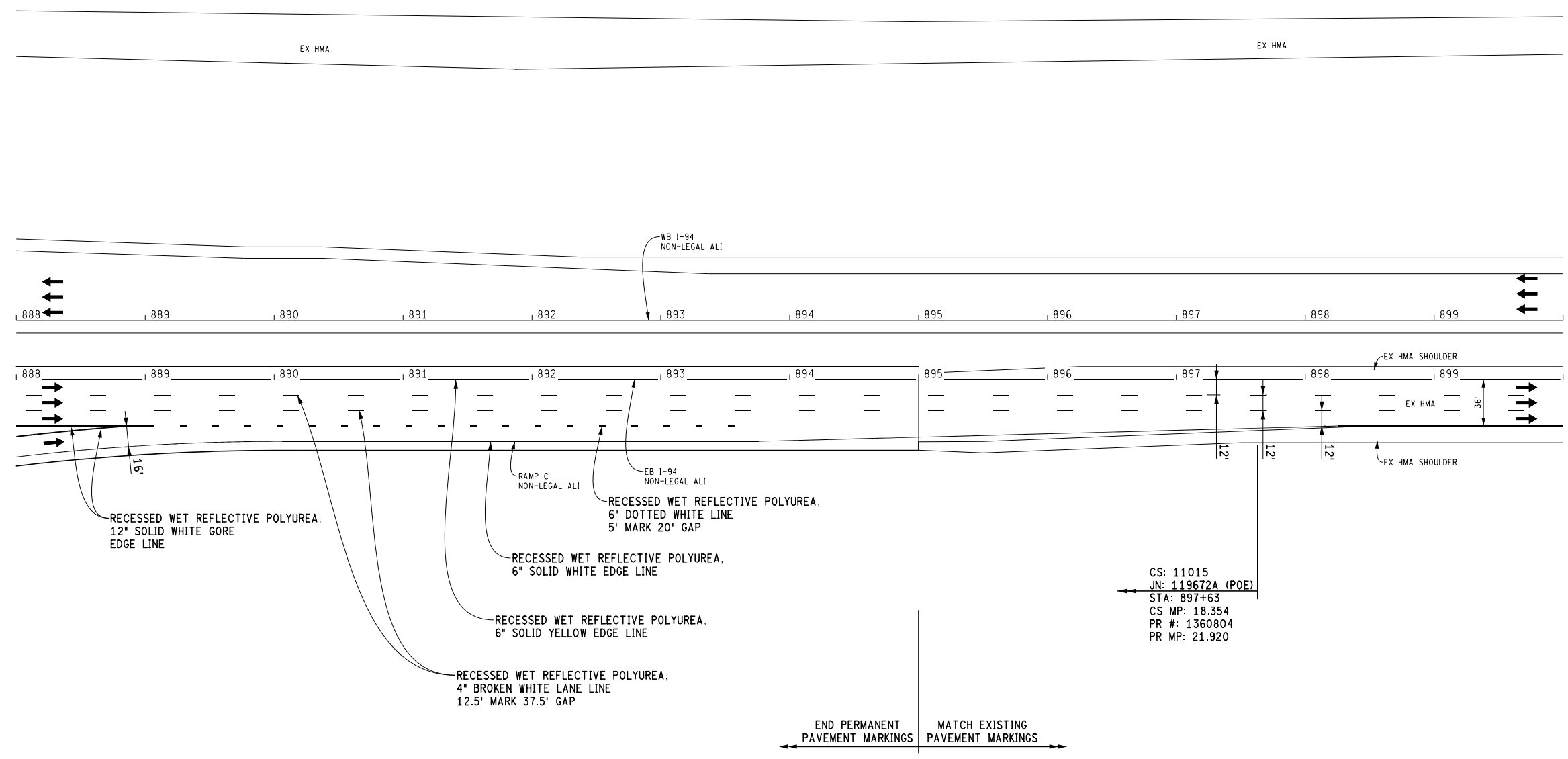


NOTRE DAME AVE

NOTRE DAME AVE

RAMP C
EB I-94
WB I-94

RAMP C
EB I-94
WB I-94

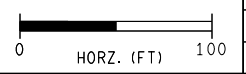


CS: 11015
 JN: 119672A (POE)
 STA: 897+63
 CS MP: 18.354
 PR #: 1360804
 PR MP: 21.920

← END PERMANENT PAVEMENT MARKINGS | MATCH EXISTING PAVEMENT MARKINGS →

NOTE:
 ALL PAVEMENT MARKING QUANTITIES ARE LOCATED ON THE MISCELLANEOUS QUANTITIES SHEET. LANE WIDTHS, PAVEMENT MARKING MATERIAL AND CONFIGURATION ARE TYPICAL FOR LOCATIONS NOT DEPICTED ON PERMANENT PAVEMENT MARKING SHEETS.

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



DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_I94EB_PVMRK_026.dgn

CS: 11015
 JN: 119672A

PERMANENT PAVEMENT MARKING SHEET
 STA 888+00 TO STA 895+00 (POE)

DRAWING SHEET
 194EB PVMRK 026 SECT 1
 158

<p>STATION 590+00 TH#01 OFFSET: 3 LT OF OUTSIDE E.O.M. LOCATION: EB I-94 DRIVELANE EAST OF RED ARROW HIGHWAY</p> <p>BORING DATE: 02/09/09 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN GOOD CONDITION. REMARKS: FROST PENETRATION NOTED TO 18.0".</p>	<p>STATION 590+00 TH#02 OFFSET: 6 RT OF OUTSIDE E.O.M. LOCATION: EB I-94 OUTSIDE SHOULDER EAST OF RED ARROW HIGHWAY</p> <p>BORING DATE: 02/09/09 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN FAIR CONDITION WITH FREQUENT MINOR PITTING 4.0" FROM SURFACE. REMARKS: FROST PENETRATION NOTED TO 38.0".</p>	<p>STATION 590+00 TH#03 OFFSET: 10 RT OF OUTSIDE E.O.M. LOCATION: EB I-94 OUTSIDE SLOPE EAST OF RED ARROW HIGHWAY</p> <p>BORING DATE: 02/09/09 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: REMARKS:</p>	<p>STATION 595+15 TH#04 OFFSET: 14 RT OF INSIDE E.O.M. LOCATION: EB I-94 CENTERLANE WEST OF LAKE STREET</p> <p>BORING DATE: 02/24/09 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN FAIR TO POOR CONDITION, SEPARATED 1.5" AND 3.5" FROM SURFACE. SEPARATIONS ARE UNEVEN WITH LOSS OF AGGREGATE. TOP 3.5" ON HMA CORE IS A PATCH. REMARKS: CORED IN LEFT WHEEL PATH WITHIN DEPRESSION WITH PATCH.</p>	<p>STATION 605+00 TH#05 OFFSET: 6 RT OF INSIDE E.O.M. LOCATION: EB I-94 PASSING LANE WEST OF LAKE STREET</p> <p>BORING DATE: 10/29/08 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN GOOD CONDITION, SEPARATED 4.0" AND 8.75" BELOW THE SURFACE. REMARKS:</p>	<p>STATION 605+00 TH#06 OFFSET: 3 LT OF INSIDE E.O.M. LOCATION: EB I-94 INSIDE SHOULDER WEST OF LAKE STREET</p> <p>BORING DATE: 10/29/08 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN GOOD CONDITION. REMARKS:</p>	<p>STATION 605+00 TH#07 OFFSET: 10 LT OF INSIDE E.O.M. LOCATION: EB I-94 INSIDE SLOPE WEST OF LAKE STREET</p> <p>BORING DATE: 10/29/08 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: REMARKS:</p>
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NOTES:

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.

THE SOIL BORING REPRESENTS POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN EXACT LOCATION OF THE BORING.

GROUNDWATER LEVELS MAY FLUCTUATE AND MAY BE DIFFERENT AT THE TIME OF CONSTRUCTION.

<p>STATION 608+40 TH#08 OFFSET: 13.5 RT OF INSIDE E.O.M. LOCATION: EB I-94 CENTERLANE WEST OF LAKE STREET</p> <p>BORING DATE: 02/24/09 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN FAIR TO POOR CONDITION, SEPARATED AT 2.0" AND 4.0" FROM SURFACE. SEPARATION WAS UNEVEN WITH LOSS OF AGGREGATE. REMARKS: CORED IN LEFT WHEEL PATH DEPRESSION AND PATCH.</p>	<p>STATION 620+00 TH#09 OFFSET: 5 LT OF OUTSIDE E.O.M. LOCATION: EB I-94 DRIVELANE EAST OF LAKE STREET</p> <p>BORING DATE: 02/09/09 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN GOOD CONDITION, SEPARATED 4.5" FROM SURFACE. REMARKS:</p>	<p>STATION 620+00 TH#10 OFFSET: 4.5 RT OF OUTSIDE E.O.M. LOCATION: EB I-94 OUTSIDE SHOULDER EAST OF LAKE STREET</p> <p>BORING DATE: 02/09/09 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN GOOD CONDITION. REMARKS:</p>	<p>STATION 620+00 TH#11 OFFSET: 14 RT OF OUTSIDE E.O.M. LOCATION: EB I-94 OUTSIDE SLOPE EAST OF LAKE STREET</p> <p>BORING DATE: 02/09/09 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: REMARKS:</p>	<p>STATION 635+00 TH#12 OFFSET: 6 RT OF INSIDE E.O.M. LOCATION: EB I-94 PASSING LANE EAST OF LAKE STREET</p> <p>BORING DATE: 10/29/08 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN GOOD CONDITION, SEPARATED 4.25" FROM SURFACE. REMARKS:</p>	<p>STATION 635+00 TH#13 OFFSET: 3 LT OF INSIDE E.O.M. LOCATION: EB I-94 INSIDE SHOULDER EAST OF LAKE STREET</p> <p>BORING DATE: 10/29/08 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE TOP 1.5" IN GOOD CONDITION AND BOTTOM 2.5" IN POOR CONDITION, BROKE APART DURING CORING. REMARKS: CORED IN AREA OF TIGHT BLOCK CRACKING.</p>	<p>STATION 635+00 TH#14 OFFSET: 10 LT OF INSIDE E.O.M. LOCATION: EB I-94 INSIDE SLOPE EAST OF LAKE STREET</p> <p>BORING DATE: 10/29/08 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: REMARKS:</p>
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FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)			
NO.	DATE	AUTH	DESCRIPTION



MDOT
 Michigan Department of Transportation
NO SCALE

DATE: 08/03/16
 DESIGN UNIT: WILCOX
 TSC: KALAMAZOO
 FILE: 119672_I94EB_BOR_001.dgn

CS: 11015
 JN: 119672A

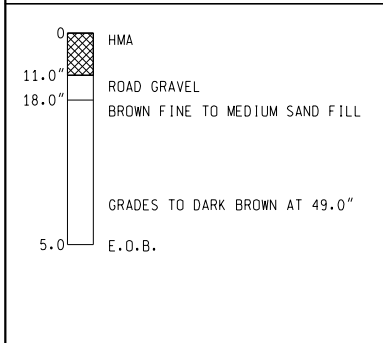
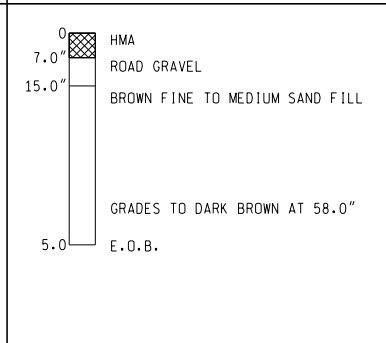
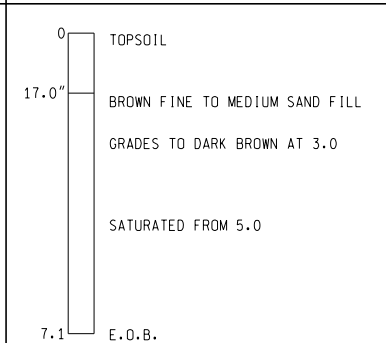
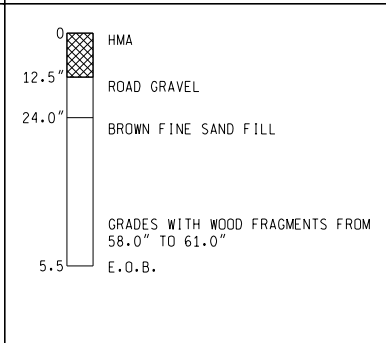
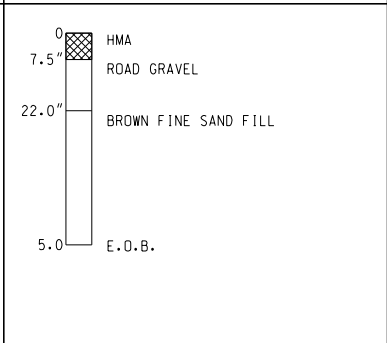
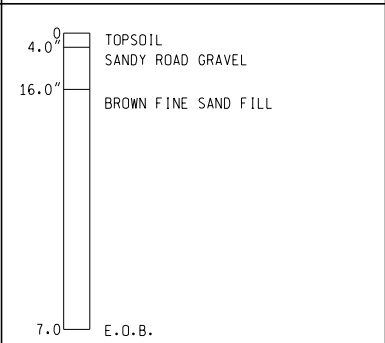
SOIL BORING DATA
 I-94 EB

DRAWING SHEET
 194EB BOR 001
 159

<p>STATION 665+00 TH#15 OFFSET: 6 RT OF INSIDE E.O.M. LOCATION: EB I-94 PASSING LANE WEST OF LIVINGSTON ROAD</p> <p>BORING DATE: 10/29/08 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN GOOD CONDITION. REMARKS:</p>	<p>STATION 665+00 TH#16 OFFSET: 3 LT OF INSIDE E.O.M. LOCATION: EB I-94 INSIDE SHOULDER WEST OF LIVINGSTON ROAD</p> <p>BORING DATE: 10/29/08 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE TOP 4.5" IN POOR CONDITION, BROKE APART DURING CORING. BOTTOM 1.5" IN FAIR CONDITION WITH DETERIORATION ALONG EDGES REMARKS: CORED IN AREA OF TIGHT BLOCK CRACKING.</p>	<p>STATION 665+00 TH#17 OFFSET: 10 LT OF INSIDE E.O.M. LOCATION: EB I-94 INSIDE SLOPE WEST OF LIVINGSTON ROAD</p> <p>BORING DATE: 10/29/08 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: REMARKS:</p>	<p>STATION 680+00 TH#18 OFFSET: 6 LT OF OUTSIDE E.O.M. LOCATION: EB I-94 DRIVELANE WEST OF LIVINGSTON ROAD</p> <p>BORING DATE: 02/10/09 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN GOOD CONDITION. REMARKS:</p>	<p>STATION 680+00 TH#19 OFFSET: 3 RT OF OUTSIDE E.O.M. LOCATION: EB I-94 OUTSIDE SHOULDER WEST OF LIVINGSTON ROAD</p> <p>BORING DATE: 02/10/09 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN POOR CONDITION WITH FREQUENT PITTING, SEPARATED 2.5" FROM SURFACE DURING CORING. REMARKS:</p>	<p>STATION 680+00 TH#20 OFFSET: 15 RT OF OUTSIDE E.O.M. LOCATION: EB I-94 OUTSIDE SLOPE WEST OF LIVINGSTON ROAD</p> <p>BORING DATE: 02/10/09 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: REMARKS:</p>	<p>STATION 695+00 TH#21 OFFSET: 6 RT OF INSIDE E.O.M. LOCATION: EB I-94 PASSING LANE WEST OF LIVINGSTON ROAD</p> <p>BORING DATE: 10/29/08 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN GOOD CONDITION, SEPARATED 4.0" AND 9.0" BELOW THE SURFACE. REMARKS:</p>
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NOTES:
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<p>STATION 695+00 TH#22 OFFSET: 3 LT OF INSIDE E.O.M. LOCATION: EB I-94 INSIDE SHOULDER WEST OF LIVINGSTON ROAD</p> <p>BORING DATE: 10/29/08 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: TOP 2.5" AND BOTTOM 5.0" OF HMA CORE IN POOR CONDITION, BROKE APART DURING CORING. REMAINDER OF HMA CORE IN GOOD CONDITION WITH MINOR PITTING. REMARKS:</p>	<p>STATION 695+00 TH#23 OFFSET: 10 LT OF INSIDE E.O.M. LOCATION: EB I-94 INSIDE SLOPE WEST OF LIVINGSTON ROAD</p> <p>BORING DATE: 10/29/08 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: REMARKS:</p>	<p>STATION 710+00 TH#24 OFFSET: 4 LT OF OUTSIDE E.O.M. LOCATION: EB I-94 DRIVELANE WEST OF LIVINGSTON ROAD</p> <p>BORING DATE: 02/10/09 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN GOOD CONDITION. REMARKS:</p>	<p>STATION 710+00 TH#25 OFFSET: 6 RT OF OUTSIDE E.O.M. LOCATION: EB I-94 OUTSIDE SHOULDER WEST OF LIVINGSTON ROAD</p> <p>BORING DATE: 02/10/09 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN GOOD CONDITION WITH OCCASIONAL MINOR PITTING 3.5" BELOW THE SURFACE. REMARKS:</p>	<p>STATION 710+00 TH#26 OFFSET: 16 RT OF OUTSIDE E.O.M. LOCATION: EB I-94 OUTSIDE SLOPE WEST OF LIVINGSTON ROAD</p> <p>BORING DATE: 02/10/09 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: REMARKS:</p>	<p>STATION 725+00 TH#27 OFFSET: 6 RT OF INSIDE E.O.M. LOCATION: EB I-94 PASSING LANE WEST OF POWER CO. ROAD</p> <p>BORING DATE: 11/03/08 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN GOOD CONDITION, SEPARATED 4.0" FROM SURFACE. REMARKS:</p>	<p>STATION 725+00 TH#28 OFFSET: 3 LT OF INSIDE E.O.M. LOCATION: EB I-94 INSIDE SHOULDER WEST OF POWER CO. ROAD</p> <p>BORING DATE: 11/03/08 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: TOP 4.0" OF HMA CORE IN POOR CONDITION, BROKE APART DURING CORING. BOTTOM 3.0" OF HMA CORE IN FAIR CONDITION WITH MODERATE PITTING IN THE TOP 1.0". REMARKS: CORED IN AREA OF TIGHT BLOCK CRACKING.</p>
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STATION 875+00 TH#57 OFFSET: 6 RT OF INSIDE E.O.M. LOCATION: EB I-94 PASSING LANE WEST OF JOHN BEERS ROAD	STATION 875+00 TH#58 OFFSET: 3 LT OF INSIDE E.O.M. LOCATION: EB I-94 INSIDE SHOULDER WEST OF JOHN BEERS ROAD	STATION 875+00 TH#59 OFFSET: 10 LT OF INSIDE E.O.M. LOCATION: EB I-94 INSIDE SLOPE WEST OF JOHN BEERS ROAD	STATION 887+00 TH#60 OFFSET: 3.5 LT OF OUTSIDE E.O.M. LOCATION: EB I-94 DRIVELANE EAST OF JOHN BEERS ROAD	STATION 887+00 TH#61 OFFSET: 3.5 RT OF OUTSIDE E.O.M. LOCATION: EB I-94 OUTSIDE SHOULDER EAST OF JOHN BEERS ROAD	STATION 887+00 TH#62 OFFSET: 12 RT OF OUTSIDE E.O.M. LOCATION: EB I-94 OUTSIDE SLOPE EAST OF JOHN BEERS ROAD		<p>NOTES:</p> <p>ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.</p> <p>THE SOIL BORING REPRESENTS POINT INFORMATION. PRESENTATION OF THIS INFORMATION IN NO WAY IMPLIES THAT SUBSURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN EXACT LOCATION OF THE BORING.</p> <p>GROUNDWATER LEVELS MAY FLUCTUATE AND MAY BE DIFFERENT AT THE TIME OF CONSTRUCTION.</p>
 <p>BORING DATE: 10/30/08 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN GOOD CONDITION, SEPARATED 4.0" FROM SURFACE. REMARKS:</p>	 <p>BORING DATE: 10/30/08 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE SEPARATED 2.5" FROM SURFACE, BOTH SECTIONS IN FAIR CONDITION WITH SOME DETERIORATION AT THE SEPARATING LAYER. REMARKS: CORED IN AREA OF TIGHT BLOCK CRACKING.</p>	 <p>BORING DATE: 10/30/08 WATER LEVEL DURING DRILLING: 5.0 PAVEMENT CONDITION: REMARKS: BOREHOLE ABANDONED AT 7.1 DUE TO WET SAND CAVE-IN.</p>	 <p>BORING DATE: 02/24/09 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN GOOD CONDITION. REMARKS: FROST PENETRATION NOTED TO 24.0"</p>	 <p>BORING DATE: 02/24/09 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: HMA CORE IN GOOD CONDITION. REMARKS: FROST PENETRATION NOTED TO 22.0"</p>	 <p>BORING DATE: 02/24/09 WATER LEVEL DURING DRILLING: NONE PAVEMENT CONDITION: REMARKS:</p>		

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



NO SCALE

DATE: 08/03/16	CS: 11015
DESIGN UNIT: WILCOX	JN: 119672A
TSC: KALAMAZOO	

FILE: 119672_I94EB_BOR_001.dgn

SOIL BORING DATA		DRAWING	SHEET
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