

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 # 17.

MICHIGAN DEPARTMENT OF TRANSPORTATION

ROUTE: US-2
CITY OF IRON RIVER
BATES TOWNSHIP
IRON COUNTY

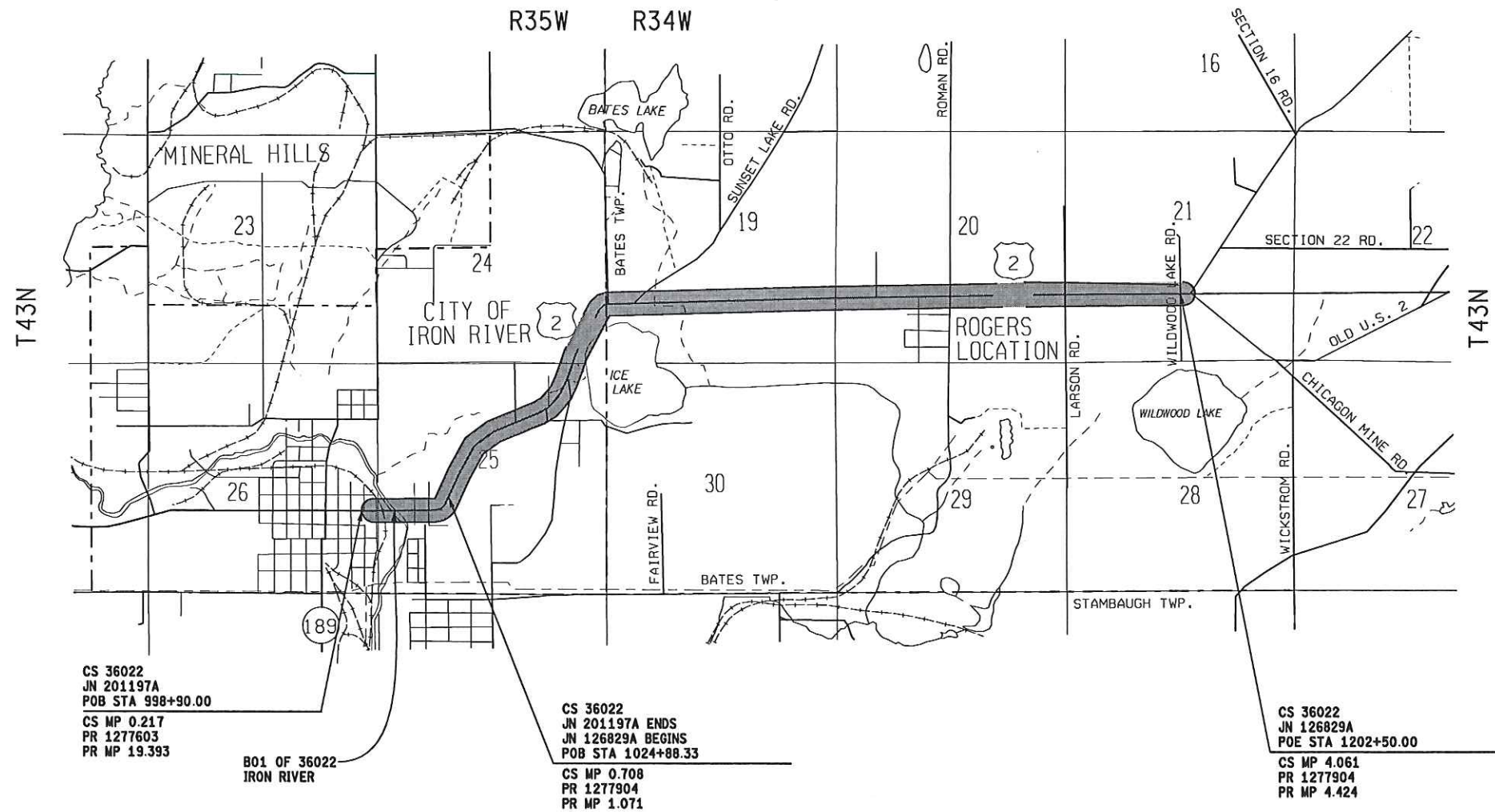


IRON COUNTY

COUNTY KEY

ROAD	YEAR	TRAFFIC DATA			SPEED DATA		LIMITS
		ADT	DHV	COMM	DESIGN	POSTED	
US-2	2019	6,800		5%	45	40	RIVER AVE TO SOUTH JCT. LALLEY ROAD
	2039	7,500		5%	45	40	
US-2	2019	4,350		8%	60	55	S. JCT LALLEY RD TO SUNSET LK RD
	2039	4,800		8%	60	55	
US-2	2019	3,850		9%	60	55	SUNSET LK RD TO WILDWOOD LK RD
	2039	4,250		9%	60	55	

SECTION	CONTROL SEC	JOB NO.
1	36022	126829A
1	36022	201197A



CS 36022
JN 201197A
POB STA 998+90.00
CS MP 0.217
PR 1277603
PR MP 19.393

801 OF 36022
IRON RIVER

CS 36022
JN 201197A ENDS
JN 126829A BEGINS
POB STA 1024+88.33

CS MP 0.708
PR 1277904
PR MP 1.071

CS 36022
JN 126829A
POE STA 1202+50.00

CS MP 4.061
PR 1277904
PR MP 4.424

APPROVALS

RECOMMENDED FOR APPROVAL BY:

David Bradley 8/6/18
DAVID BRADLEY, P.E. - PROJECT MANAGER

Steven J. Cadeau 8-6-18
STEVEN J. CADEAU, P.E. - CONSTRUCTION ENGINEER

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

MILES: 3.847
CONTRACT FOR:
COLD MILLING, JOINT REPAIRS, HMA RESURFACING,
DRAINAGE IMPROVEMENTS, AND PAVEMENT MARKINGS

TITLE		DRAWING	SHEET
		US-2	SECT 1
		001	1

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



NO SCALE

DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A

FILE: 126829_TITLE_001.dgn

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
ATT Attention: Marsha Bertoldi 211 East B Street Iron Mountain, MI 49801 Phone: (906) 779-2744 Email: mb8983@att.com	Communications
Bates Township Attention: Ed Benson 3070 East US-2 Iron River, MI 49935 Phone: (906) 367-0133 Email: shop@batestownship.com	Water/Sewer
City of Iron River Attention: Rick Sheltrow 106 W Genesee St Iron River, Michigan 49935 Phone: (906) 265-4719 x108 Email: dpw@ironriver.org	Water/Sewer
DTE Energy Attention: Matt Logan 1250 MichCon Lane SW Kalkaska, MI 49646 Phone: (231) 492-7479 Email: matthew.logan@dteenergy.com	Gas
Iron River CO-OP TV Attention: Jerry Ward 316 N 2 nd Ave Iron River, MI 49935 Phone: (906) 265-3810 Email: ircable@ironriver.tv	Communications
Merit Network Attention: Carlos Ramos 1000 Oakbrook, Ste 200 Ann Arbor, Michigan 48104 Phone: (734) 476-3873 Email: cramosjr@merit.edu	Communications
Peninsula Fiber Network Attention: Jon French 204 State St Baraga, MI 49908 Phone: (906) 353-8474 Email: jfrench@up.net	Communications
Upper Peninsula Power Co Attention: Scott Roehl 3313 US-2 East Iron River, Michigan 49935 Phone: (906) 265-9605 Email: saroehl@uppc.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 C	R-8-D
COVER E	R-10-D
MONUMENT BOXES	R-11-E
COVER K	R-15-F
SIDEWALK RAMP AND DETECTABLE WARNING DETAILS	R-28-J *
DRIVEWAY OPENINGS & APPROACHES AND CONCRETE SIDEWALK	R-29-I
CONCRETE CURB AND CONCRETE CURB & GUTTER	R-30-G
CONCRETE SHOULDER GUTTER AND SPILLWAY	R-35-D
CONCRETE PAVEMENT REPAIR	R-44-F
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 TYPE 2M	R-62-H *
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
OUTLET HEADWALLS	R-85-D
PRECAST CONCRETE END SECTION FOR PIPE CULVERT	R-86-E
STEEL END SECTION	R-88-D
STEEL GRATES FOR END SECTIONS	R-92-C
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
SHOULDER AND CENTER LINE CORRUGATIONS	R-112-I
DELINEATOR INSTALLATIONS	R-127-F
GUARDRAIL AT INTERSECTIONS	Special Detail 21 *
PAVEMENT MARKINGS	
PAVEMENT ARROW AND MESSAGE DETAILS	PAVE-900-F
LONGITUDINAL LINE TYPES AND PLACEMENT	PAVE-905-D
PAVEMENT MARKINGS FOR INTERSECTIONS	PAVE-930-C
LEFT TURN LANE MARKINGS	PAVE-935-D
LANE REDUCTION PAVEMENT MARKINGS	PAVE-971-A

NOTES APPLYING TO STANDARD PLANS (CONT.)

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.
SIGNING	
STANDARD SIGN INSTALLATIONS	SIGN-100-G *
SIGN LOCATION CODES PLACEMENT	SIGN-115-C
ROADSIDE SIGN LOCATIONS & SUPPORT SPACING	SIGN-120-E *
PLACEMENT OF D3-1 SIGNS ABOVE R1-1	SIGN-140-A
STEEL POSTS	SIGN-200-D
WOOD POSTS	SIGN-210-B
WORK ZONE DEVICES	
GROUND DRIVEN SIGN SUPPORTS FOR TEMP SIGNS	WZD-100-A *
TEMPORARY TRAFFIC CONTROL DEVICES	WZD-125-E *
TEMPORARY SHOULDER DELINEATORS	WZD-126-A *

* Denotes Special Detail

SHEET INDEX

Section 1 - Road Plans	
Title	1
Project Information	2
Legend	3 - 5
Note	6
Miscellaneous Quantities	7
Typical Cross Sections	8 - 20
Miscellaneous Details	21
Survey Information	22 - 23
Alignment	24 - 41
Removal & Construction	42 - 77
Maintaining Traffic/Construction Staging Plans	78
Detail Grades	79 - 80
Permanent Signing / Pavement Marking	81 - 98
Log of Borings	99 - 100
Special Details	101 - 121

FUNDING CATEGORIES

JN 129829A Mill & Two Course Asphalt Resurfacing (R&R)
Category 0001 = Fed / State

JN 201197A Mill & One Course Asphalt Overlay (CPM)
Category 0001 = Fed / State

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: 126829_Legend.dgn

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

CS: 36022

JN: 126829A

201197A

LEGEND

DRAWING SHEET

US-2 LEGEND 001

SECT 1 3

UTILITIES

COMBINED SEWER

- COMBINED SEWER
- //→→//→→ COMBINED SEWER - OUT OF SERVICE
- COMBINED SEWER - TO BE TAKEN OUT OF SERVICE
- ×→→×→→ COMBINED SEWER - TO BE REMOVED

SANITARY SEWER

- ⊙ MANHOLE WITH COVER (DIA VARIES)
-)——)——)—— SEWER
-)//)——)——)—— SEWER - OUT OF SERVICE
-)●)——)——)—— SEWER - TO BE TAKEN OUT OF SERVICE
-)×)——)——)—— SEWER - TO BE REMOVED

COMMUNICATION

- F0 — FIBER OPTIC
- // — F0 — // FIBER OPTIC - OUT OF SERVICE
- F0-OH — FIBER OPTIC - OVERHEAD
- ⊠ FIBER OPTIC MARKER
- C — CABLE
- // — C — // CABLE - OUT OF SERVICE
- C-OH — CABLE - OVERHEAD
- ⊠ CABLE MARKER
- ◇ CABLE PEDESTAL
- T — TELEPHONE
- // — T — // TELEPHONE - OUT OF SERVICE
- T-OH — TELEPHONE - OVERHEAD
- ⊠ TELEPHONE BOX
- ⊙ TELEPHONE MANHOLE
- ◇ TELEPHONE PEDESTAL

WATER

- ⊠ FIRE HYDRANT
- ⊗ GATE VALVE AND BOX
- ⊙ GATE VALVE IN WELL
- ⊠ IRRIGATION CONTROL VALVE
- ⊠ IRRIGATION SPRINKLER HEAD
- ⊠ SERVICE METER
- ⊠ SERVICE SHUTOFF
- ⊠ WATER WELL
- I — IRRIGATION
- W — WATER MAIN
- // — W — // WATER MAIN - OUT OF SERVICE
- W —●— WATER MAIN - TO BE TAKEN OUT OF SERVICE
- ×— W —×— WATER MAIN - TO BE REMOVED

FUEL / PETROLEUM

- ⊠ GASOLINE FILLER PIPE
- ⊠ GASOLINE PUMP
- ⊠ GASOLINE UNDERGROUND TANK
- PETRO — PETROLEUM PIPELINE
- // — PETRO — // PETROLEUM PIPELINE - OUT OF SERVICE
- ⊠ PETROLEUM PIPELINE MARKER
- ⊙ PETROLEUM WELL
- ⊙ PROPANE TANK

NATURAL GAS

- G — GAS LINE
- // — G — // GAS LINE - OUT OF SERVICE
- ⊠ MARKER
- ⊠ VALVE
- ⊠ WELL

GENERIC EXISTING UTILITIES

- ⊙ □ CATCH BASIN COVER
- MANHOLE COVER
- ⊠ MARKER
- ◇ PEDESTAL
- ⊙ SEWER CLEANOUT ACCESS
- STRUCTURE BOTTOM (DIA VARIES)
- ⊠ UTILITY BOX
- U — UTILITY

DRAINAGE

- ⊠ ⊙ ⊙ CATCH BASIN W/ COVER (DIA VARIES)
- 12 DRAINAGE STRUCTURE NUMBER
- DRAIN CASTING
- DROP INLET
- ▷ ▷ ▷ ▷ END SECTION (SIZE VARIES)
- FLOW DIRECTION ARROW
- ⊠ HEADWALL (SIZE VARIES)
- ⊙ MANHOLE W/ COVER (DIA VARIES)
- ⊠ MANHOLE BASE W/ COVER (SIZE VARIES)
- ⊠ MANHOLE TEE W/ COVER (SIZE VARIES)
- ⊠ OUTLET HEADWALL (SIZE VARIES)
- — — — CULVERT - EXISTING
- ▬▬▬▬▬▬ CULVERT (SIZE VARIES)
- · — · — · — · DITCH CENTERLINE
- ▷ ▷ ▷ ▷ STORM SEWER - EXISTING
- → → → STORM SEWER
- ×— ×— ×— ×— STORM SEWER - TO BE REMOVED
- → → → UNDERDRAIN
- · — · — · — · WATER EDGE

NOTE:

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

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



NO SCALE

FILE: 126829_Legend.dgn

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

CS: 36022

JN: 126829A

201197A

LEGEND

DRAWING	SHEET
US-2 LEGEND 002	1 4

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
- LIGHT STANDARD EXISTING - TO BE REMOVED & SALVAGED
- LIGHT STANDARD DOUBLE ARM - EXISTING
- LIGHT STANDARD DOUBLE ARM
- LIGHT STANDARD POST TOP - EXISTING
- LIGHT STANDARD POST TOP
- LIGHT STANDARD SINGLE ARM - EXISTING
- LIGHT STANDARD SINGLE ARM
- LIGHT POLE - TEMPORARY
- LUMINAIRE WALL MOUNTED UNDERBRIDGE - EXISTING
- LUMINAIRE WALL MOUNTED UNDERBRIDGE
- TOWER LIGHTING UNIT - EXISTING
- 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
- COMMUNICATIONS CABLE IN CONDUIT
- 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: 08/10/18	CS: 36022	LEGEND	DRAWING	SHEET
DESIGN UNIT: KLEIKAMP	JN: 126829A		US-2	SECT 1
FILE: 126829_Legend.dgn	TSC: CRYSTAL FALLS	003	5	

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.

ROW / REAL ESTATE

PROPERTY OWNERS

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

MARKETABLE TIMBER

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

LAWN SPRINKLER SYSTEMS AND LANDSCAPING

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

SURVEY

ADJUSTING MONUMENT BOXES

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

STATIONING

Stationing on this project was taken from old plans and pavement stenciled stationing and is not necessarily accurate.

OLD PLANS

OLD ROAD PLANS

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

36022 - 36-5 C1 C2 H-15-B-4
 36022 - 36-5 C3 L-55-C-6
 36022 - 28100
 36022 - 37555
 36022 - B01 B4 36-4-2

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.

UNSIGNALIZED SIDE ROAD TO TRUNK LINE INTERSECTIONS:

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

SIDEWALK AND SIDEWALK RAMP GRADES

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

EARTHWORK

EARTHWORK

Earthwork quantities are computed based upon limited survey information. These quantities are for bidding purposes only and will be adjusted by the Engineer based upon actual field measurements.

SLOPES

Class A slopes shall be constructed on this project.

EARTH DISTURBANCE LIMITS

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

SOIL EROSION MEASURES

Appropriate soil erosion and sedimentation control measures shall be in place prior to earth-disturbing activities. Place turf establishment items as soon as possible on potential erodible 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 22A, 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.

ILLICIT CONNECTIONS TO STORM WATER SYSTEM

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

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.

GUARDRAIL

GUARDRAIL POST HOLES

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

TURF ESTABLISHMENT

SEED MIXTURE

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

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.

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.

PROJECT SPECIFIC NOTES

9' GUARDRAIL POST

Guardrail shall be constructed using 9 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.

VIBRATORY COMPACTION

The use of vibratory compaction is prohibited on approaches within the vicinity of existing water main or in areas as directed by the Engineer.

PRINTER REQUIREMENTS FOR SCALES

Scales utilized for weighing tonnage pay items shall be capable of providing a printed triplicate ticket for each truckload which meets the requirements of Section 109.01.B 6 of the 2012 Standard Specifications for Construction.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



NO SCALE

FILE: 126829 Note Sheet 2012.doc

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

CS: 36022

JN: 126829A / 201197A

NOTE SHEET

DRAWING SHEET

NOTE 001

SECT 1

6

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.

JN 126829	JN 201197		
CAT 0001	CAT 0001		
0.94	0.06	LSUM	Mobilization, Max
20	--	Cyd	Non Haz Contaminated Material Handling and Disposal, LM
200	--	Syd	Bump Grinding
38546	2818	Dlr	HMA Quality Initiative
107397	10845	Dlr	Longitudinal Joint Density Quality Initiative
26989	--	Dlr	Ride Incentive
54	--	Ea	Post, Mailbox
1	--	LSUM	Contractor Staking, Road Only
24	--	Hr	Staking Plan Errors and Extras, One Person
10	--	Hr	Staking Plan Errors and Extras, Two Person
15	--	Hr	Staking Plan Errors and Extras, Three Person

PAVEMENT REPAIRS

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

JN 126829			
CAT 0001			
4918	Ft	Pavt	Joint and Crack Repr, Det 7
1229	Ft	Pavt	Joint and Crack Repr, Det 8
800	Ton		Hand Patching

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.

JN 126829			
CAT 0001			
300	Ft	Erosion	Control, Check Dam, Stone
65	Cyd	Erosion	Control, Maintenance, Sediment Removal
4	Ea	Erosion	Control, Sediment Trap
300	Ft	Erosion	Control, Silt Fence
1	Ea	Erosion	Control, Gravel Access Approach

BERM GRADING QUANTITIES

The following items are estimated for the entire project for removing and restoring earth shoulder berms where designated by the Engineer.

JN 126829			
CAT 0001			
200	Cyd	Excavation,	Earth
1500	Syd	Slope	Restoration, Type B

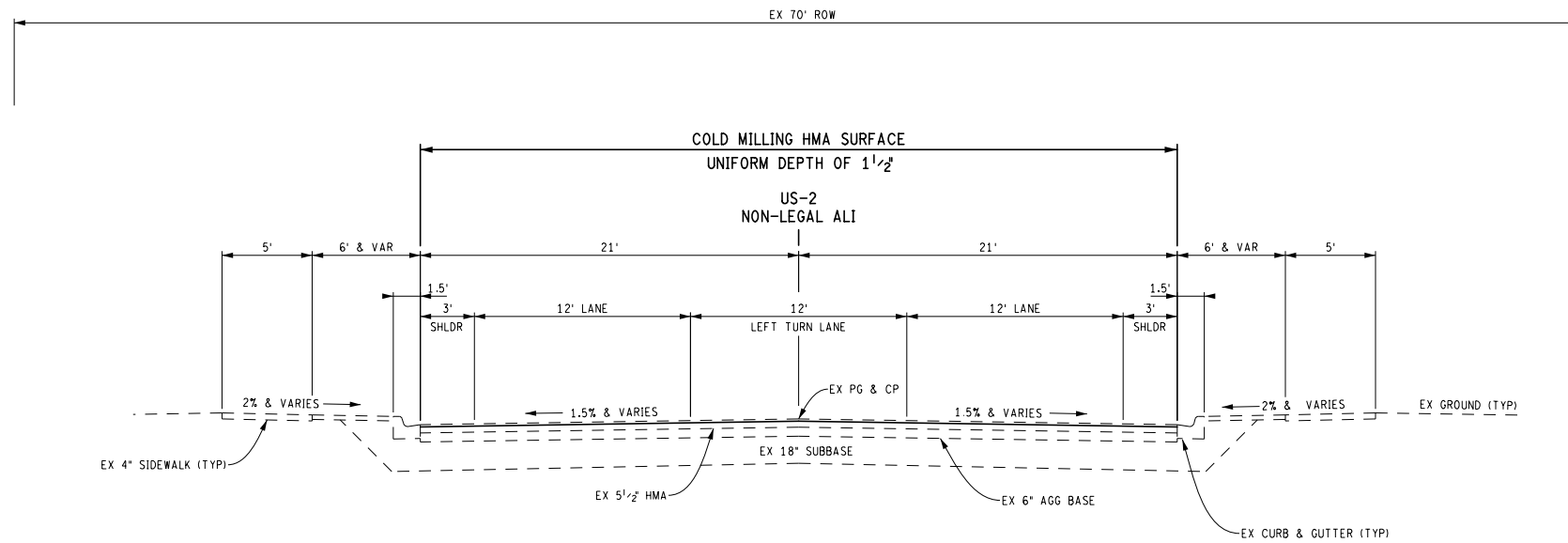
TURF ESTABLISHMENT QUANTITIES

The following items are estimated for the entire project for slope restoration where designated by the Engineer.

JN 126829			
CAT 0001			
1051	Syd	Slope	Restoration, Type A
7352	Syd	Slope	Restoration, Type B
2101	Syd	Slope	Restoration, Type C
211	Syd	Slope	Restoration, Type D

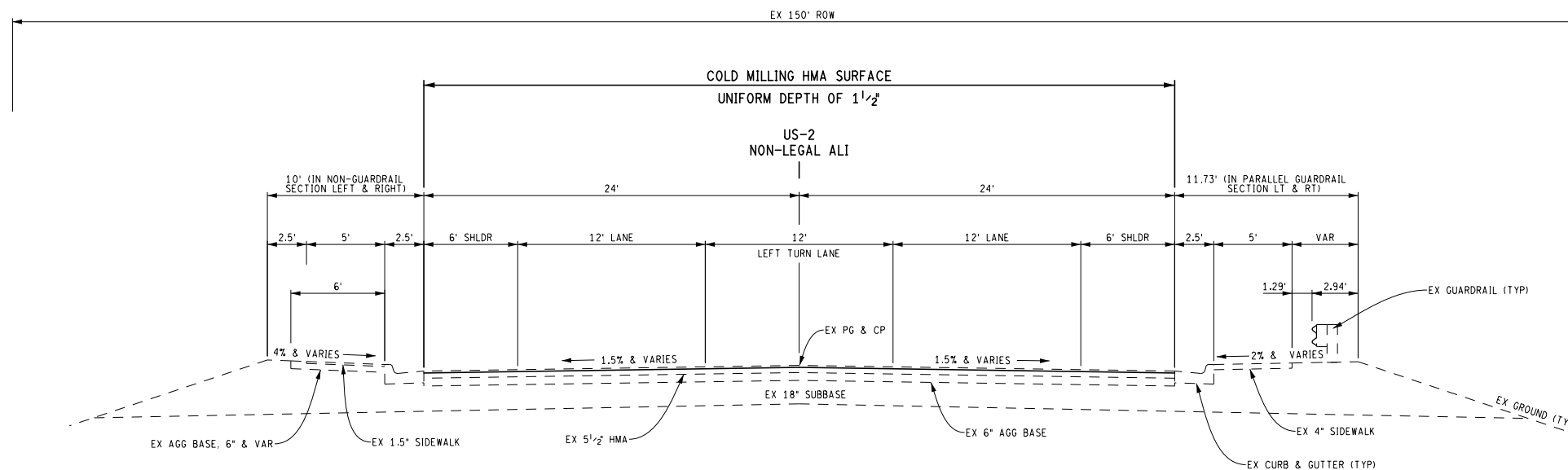
MAINTAINING TRAFFIC QUANTITIES

JN 201197	JN 126829		
CAT 0001	CAT 0001		
	6	Ea	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn
	6	Ea	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper
	6	Ea	Lighted Arrow, Type C, Furn
	6	Ea	Lighted Arrow, Type C, Oper
0.06	0.94	LSUM	Minor Traf Devices
10440	113500	Ft	Pavt Mrkg, Wet Reflective, Type NR, Paint, 4 inch, White, Temp
10440	15520	Ft	Pavt Mrkg, Wet Reflective, Type NR, Paint, 4 inch, Yellow, Temp
100	1000	Ft	Pavt Mrkg, Wet Reflective, Type R, Tape, 4 inch, White, Temp
100	1000	Ft	Pavt Mrkg, Wet Reflective, Type R, Tape, 4 inch, Yellow, Temp
	15	Ea	Sign Cover
	1450	Sft	Sign, Type B, Temp, Prismatic, Furn
	1450	Sft	Sign, Type B, Temp, Prismatic, Oper
0.06	0.94	LSUM	Traf Regulator Control
	12000	Ft	Pavt Mrkg, Longit, 6 inch or Less Width, Rem
4		Ea	Pedestrian Type II Barricade, Temp
20	75	Ea	Plastic Drum, Fluorescent, Furn
20	75	Ea	Plastic Drum, Fluorescent, Oper



EXISTING NORMAL SECTION

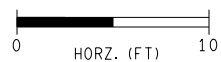
SECTION APPLIES TO:
US-2 NON-LEGAL ALI STA 998+90 (POB JN 201197A BEGINS) TO STA 999+50



EXISTING NORMAL SECTION

SECTION APPLIES TO:
US-2 NON-LEGAL ALI STA 999+50 TO 1002+85
GAP B01 OF 36022
US-2 NON-LEGAL ALI STA 1003+85 TO 1008+52

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



FILE: 126829_EXTYP001.dgn

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

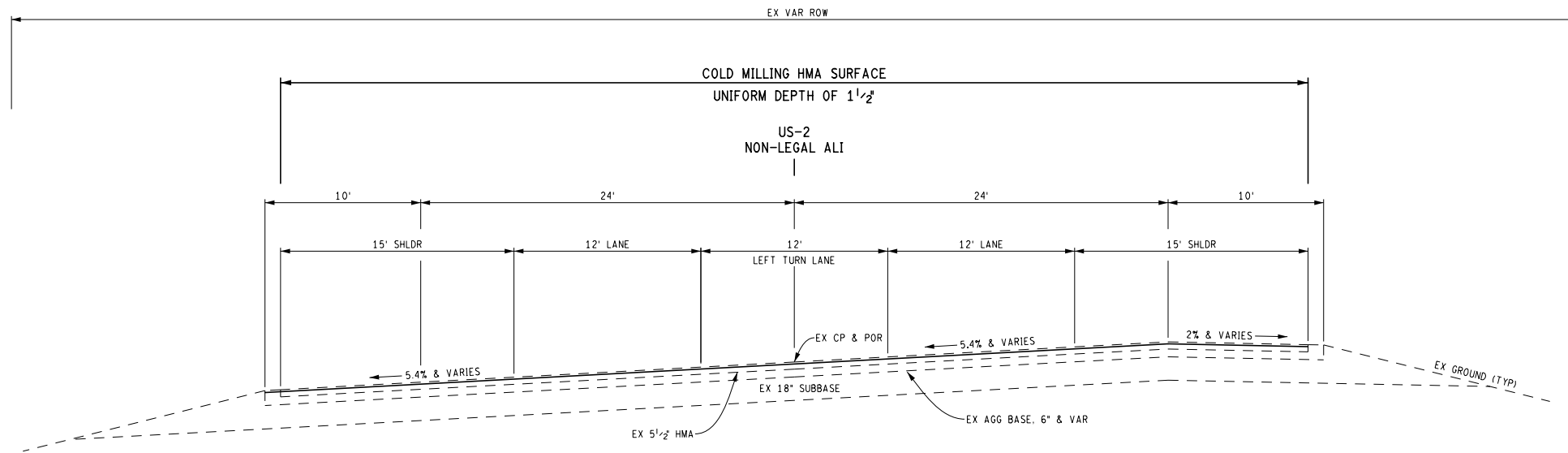
CS: 36022

JN: 126829A

201197A

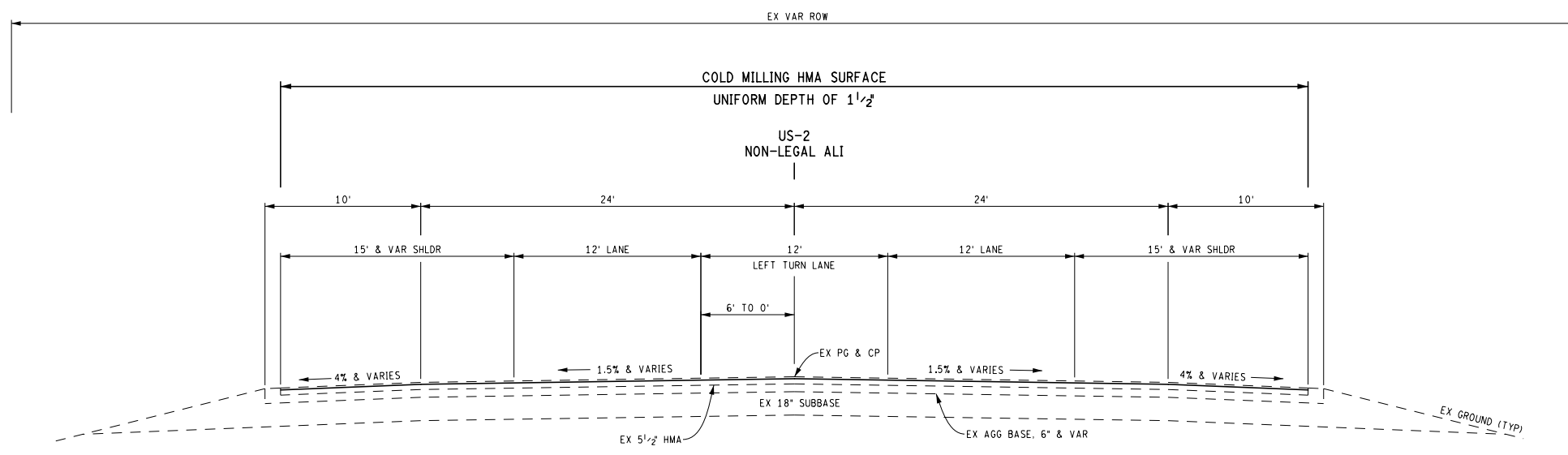
TYPICAL CROSS SECTIONS

DRAWING	SHEET
US-2 TYP 001	SECT 1 8



EXISTING SUPERELEVATED SECTION

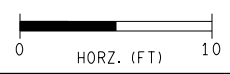
SECTION APPLIES TO:
US-2 NON-LEGAL ALI STA 1008+52 TO 1020+00



EXISTING NORMAL SECTION

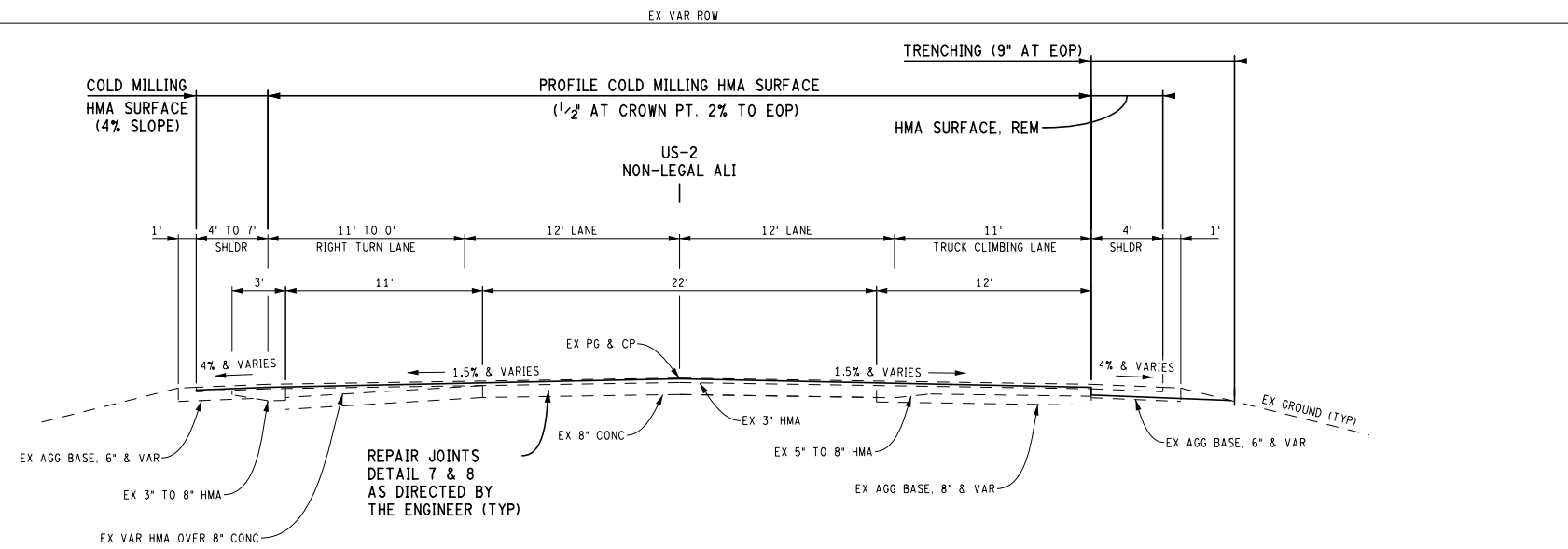
SECTION APPLIES TO:
US-2 NON-LEGAL ALI STA 1020+00 TO 1024+88 (JN 201197A ENDS)

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



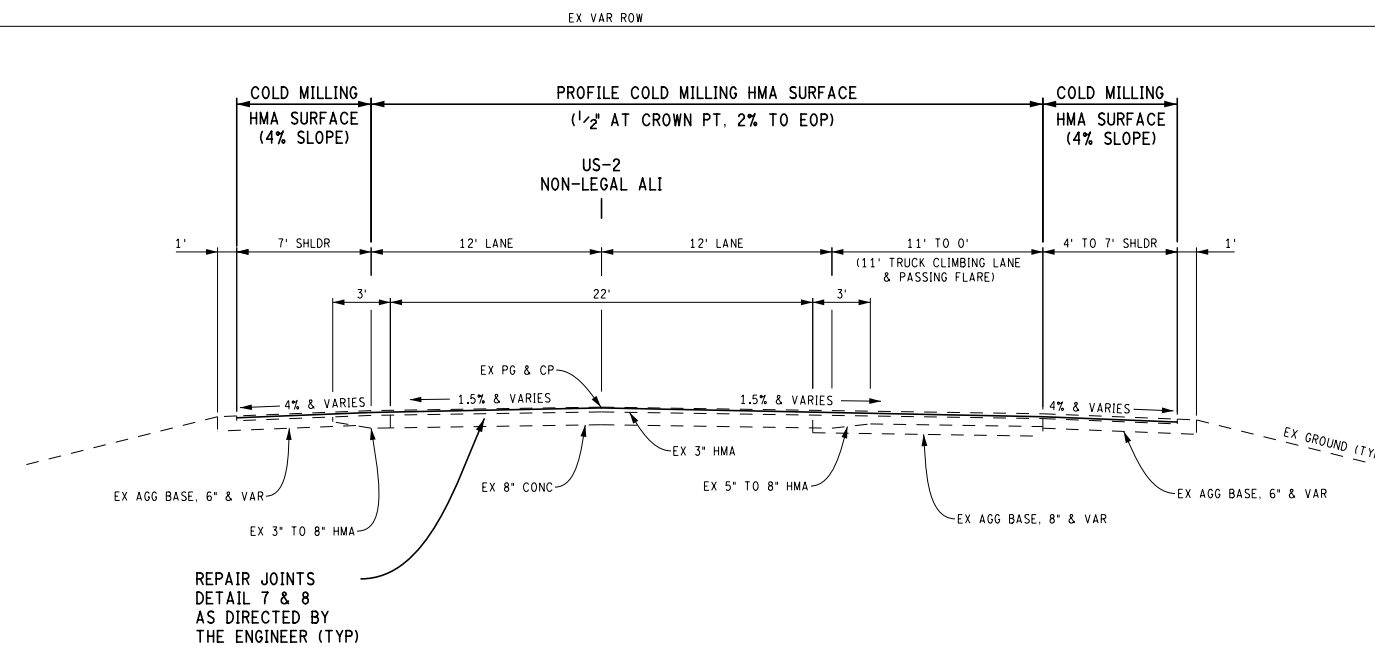
DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A

TYPICAL CROSS SECTIONS		DRAWING	SHEET
US-2	TYP	002	9



EXISTING NORMAL SECTION

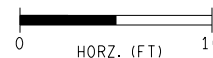
SECTION APPLIES TO:
 US-2 NON-LEGAL ALI STA 1024+88 (JN 126829A BEGINS) TO 1033+48



EXISTING NORMAL SECTION

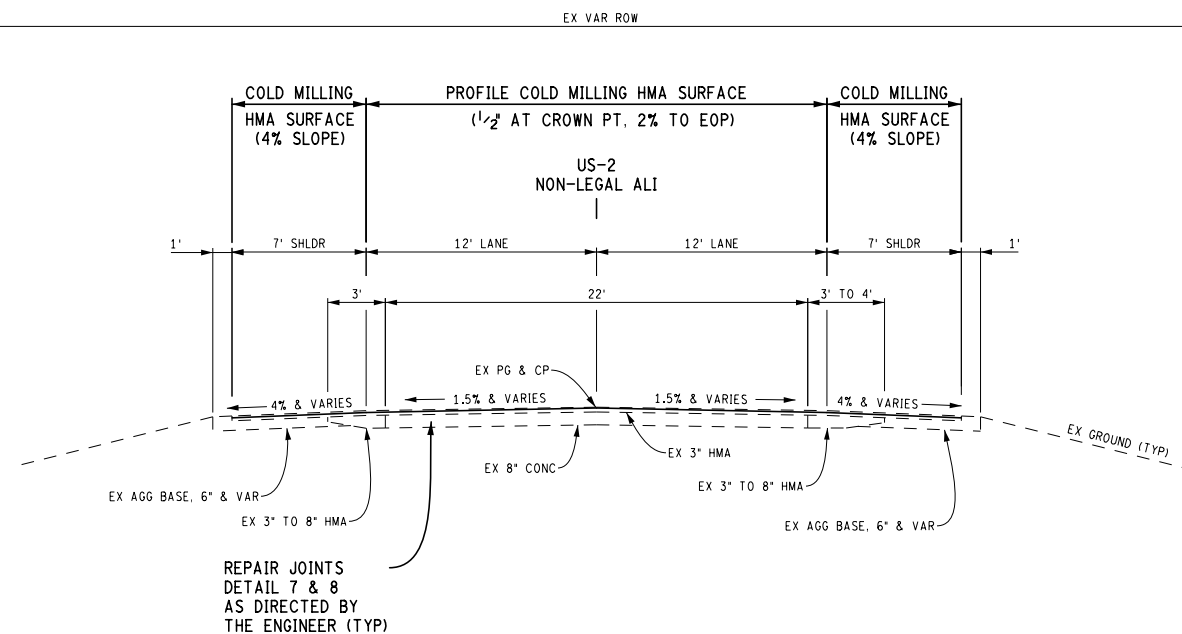
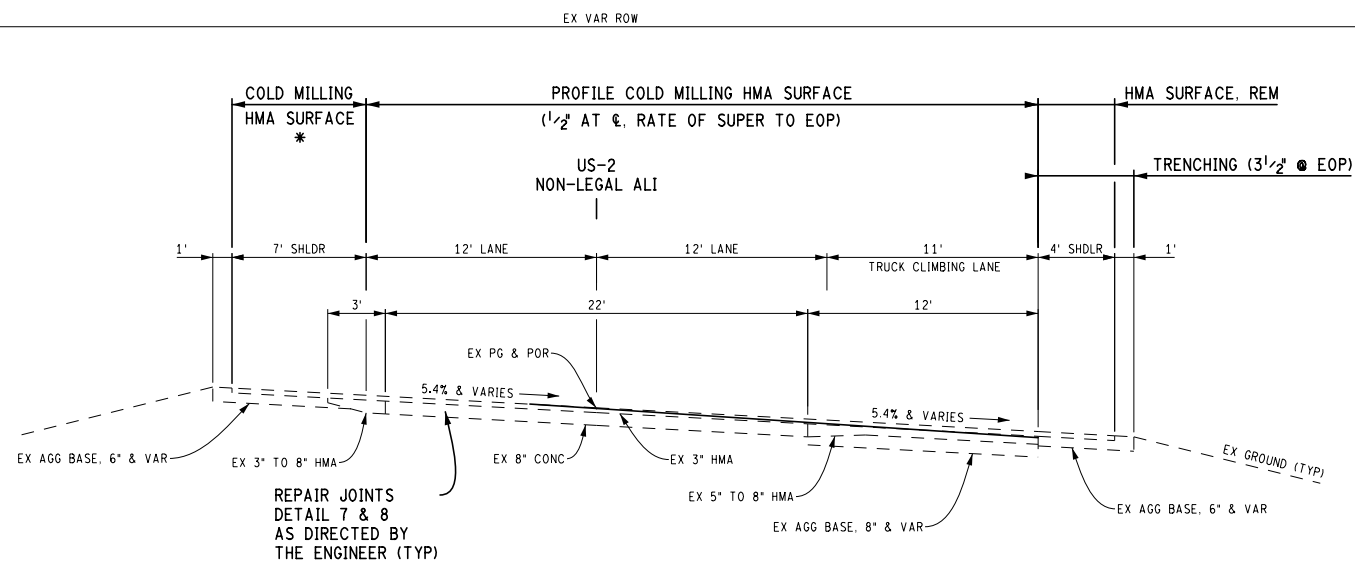
SECTION APPLIES TO:
 US-2 NON-LEGAL ALI STA 1033+48 TO 1059+00
 US-2 NON-LEGAL ALI STA 1078+50 TO 1092+00

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

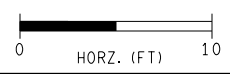


DATE: 08/10/18	CS: 36022	TYPICAL CROSS SECTIONS	DRAWING	SHEET
DESIGN UNIT: KLEIKAMP	JN: 126829A		US-2	SECT 1
TSC: CRYSTAL FALLS	201197A		TYP	10

FILE: 126829_EXTYP003.dgn

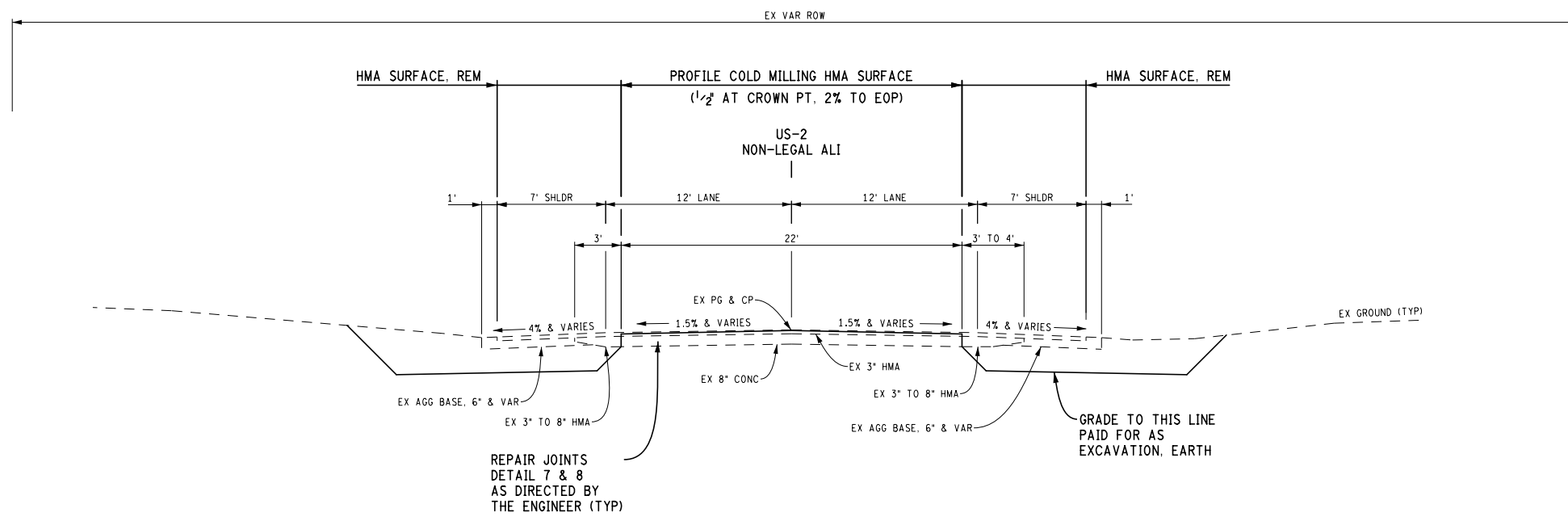


FINAL ROW PLAN REVISIONS		(SUBMITTAL DATE:)	
NO.	DATE	AUTH	DESCRIPTION



DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A

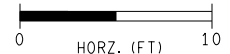
TYPICAL CROSS SECTIONS		DRAWING	SHEET
US-2 TYP 004			11



EXISTING NORMAL SECTION

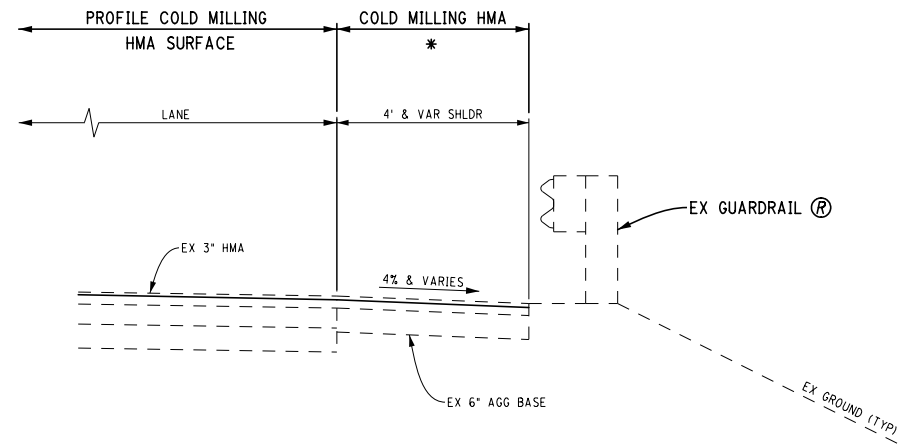
SECTION APPLIES TO:
US-2 NON-LEGAL ALI STA 1151+35.02 TO 1160+27.72

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



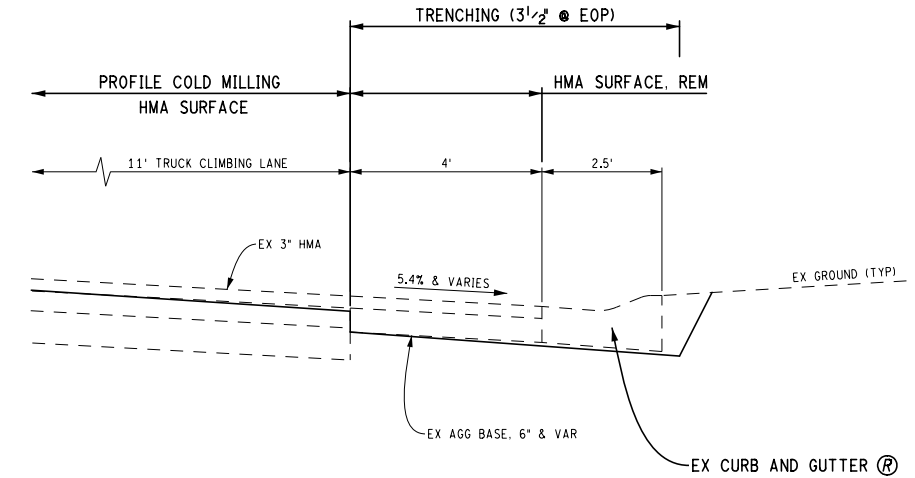
DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A
FILE: 126829_EXTYP005.dgn	

TYPICAL CROSS SECTIONS		DRAWING	SHEET
US-2	TYP	005	12
SECT 1			



EXISTING GUARDRAIL SECTION

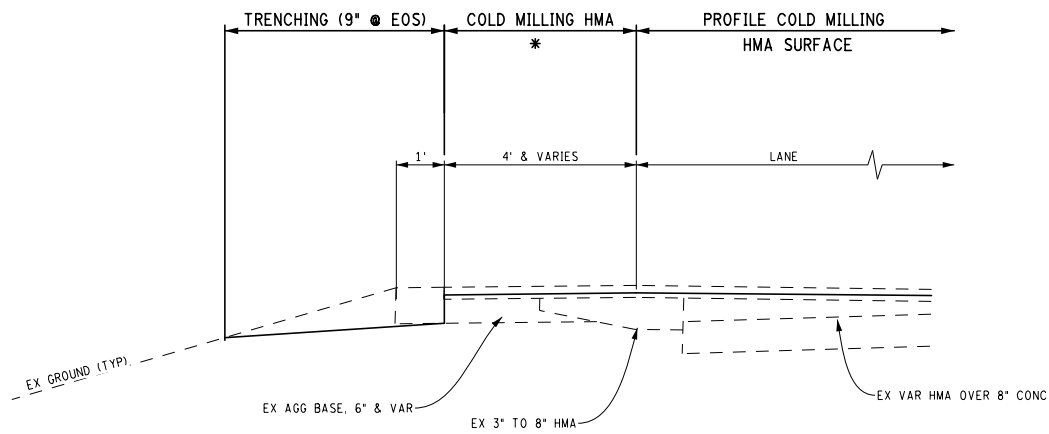
SECTION APPLIES TO:
LOCATIONS AS SHOWN ON PLANS



EXISTING CURB AND GUTTER SECTION

SECTION APPLIES TO:
US-2 NON-LEGAL ALI STA 1057+42 TO 1070+50

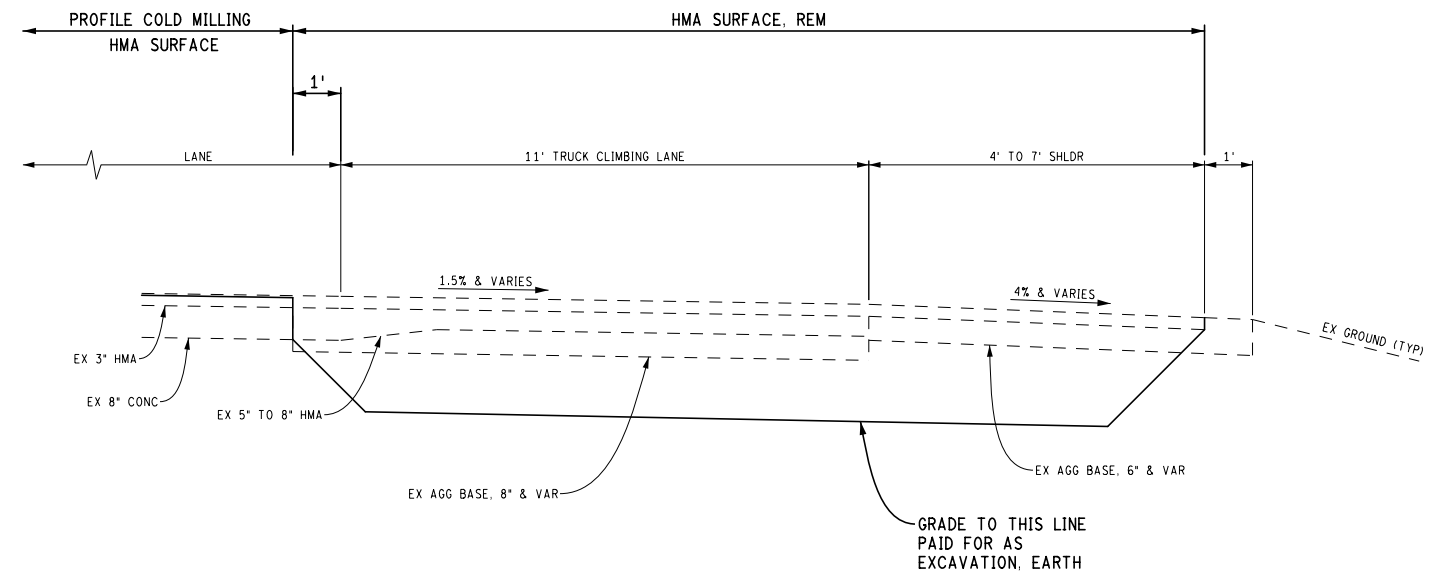
* FOR SHOULDER SLOPES IN SUPER TRANSITION AND FULL SUPER SEE STANDARD PLAN R-107 SERIES



EXISTING SUPERLEVATED PASSING FLARE SECTION

SECTION APPLIES TO:
US-2 NON-LEGAL ALI STA 1072+94 TO 1080+44

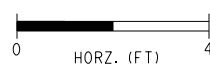
* FOR SHOULDER SLOPES IN SUPER TRANSITION AND FULL SUPER SEE STANDARD PLAN R-107 SERIES



EXISTING NORMAL SECTION

SECTION APPLIES TO:
US-2 NON-LEGAL ALI STA 1085+00 TO 1110+85

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



FILE: 126829_EXTYP006.dgn

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

CS: 36022

JN: 126829A

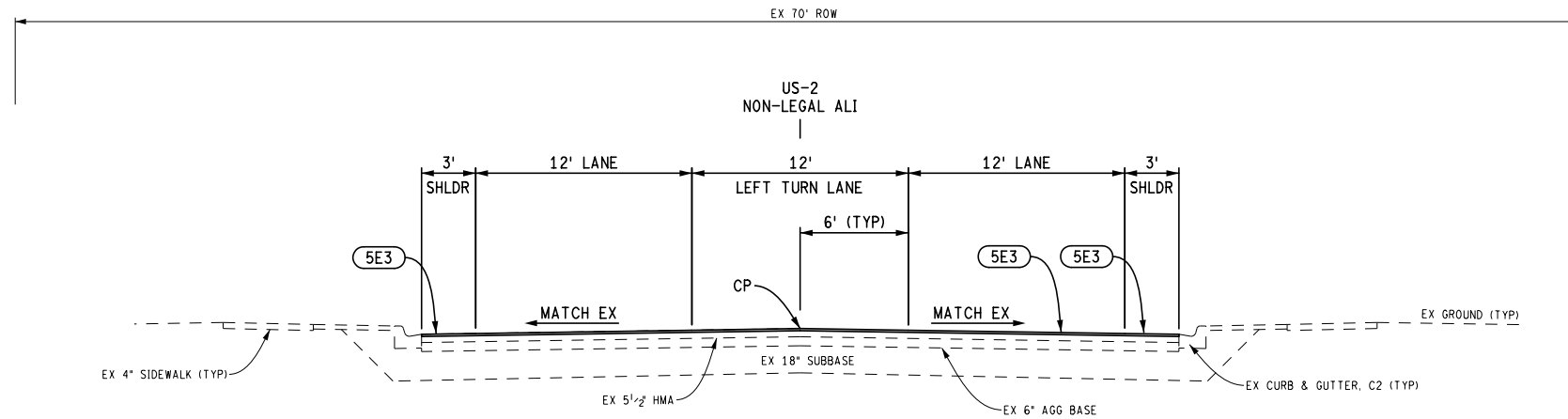
201197A

TYPICAL CROSS SECTIONS

DRAWING SHEET

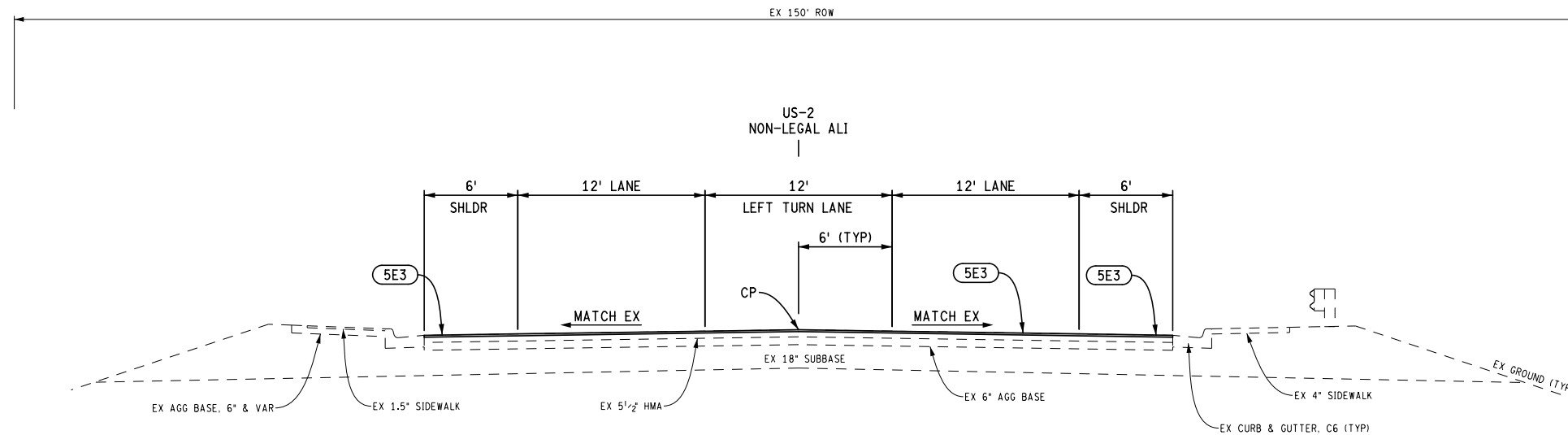
US-2 TYP 006

SECT 1 13



PROPOSED NORMAL SECTION

SECTION APPLIES TO:
US-2 NON-LEGAL ALI STA 998+90 (POB JN 201197A BEGINS) TO STA 999+50



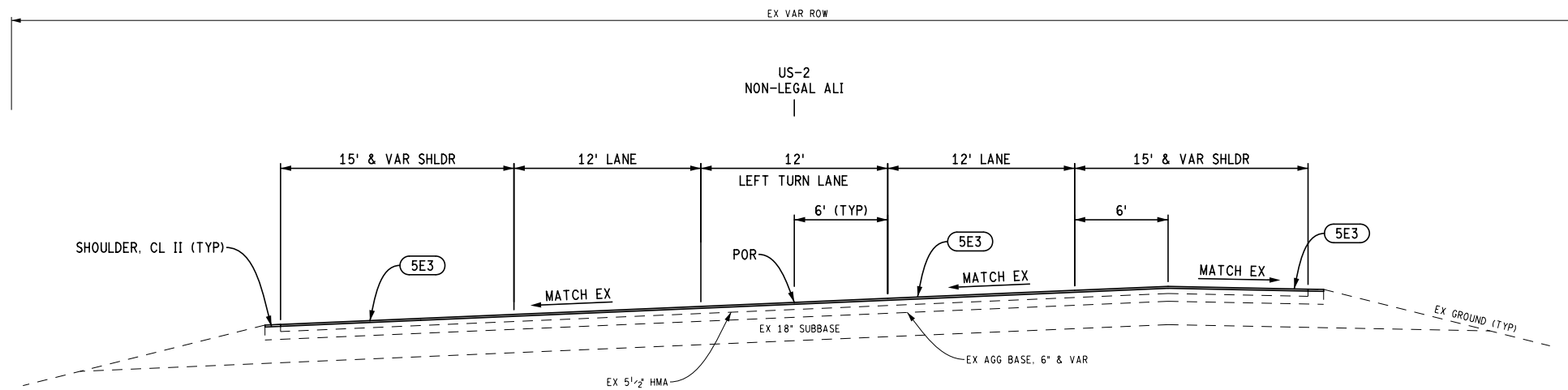
PROPOSED NORMAL SECTION

SECTION APPLIES TO:
US-2 NON-LEGAL ALI STA 999+50 TO 1002+85
GAP B01 OF 36022
US-2 NON-LEGAL ALI STA 1003+85 TO 1006+00

HMA APPLICATION ESTIMATE

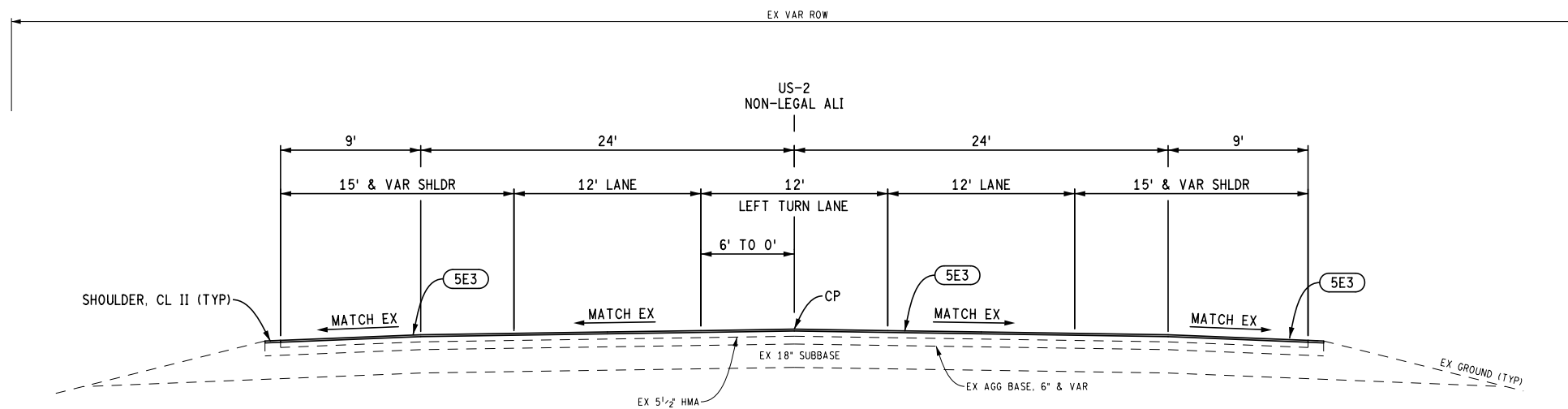
IDENT NO.	ITEM	RATE LBS PER SYD	PERFORMANCE GRADE	REMARKS
5E3	HMA, 5E3	165	58-34	TOP COURSE (AWI=220)
4E3	HMA, 4E3	220	58-34	LEVELING COURSE
3E3	HMA, 3E3	330	58-28	BASE COURSE
LVSP	HMA, LVSP	385	58-34	SHOULDER TOP (1.5\"/>

*FOR INFORMATION ONLY



PROPOSED SUPERELEVATED SECTION

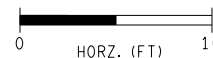
SECTION APPLIES TO:
US-2 NON-LEGAL ALI STA 1006+00 TO 1020+00



PROPOSED NORMAL SECTION

SECTION APPLIES TO:
US-2 NON-LEGAL ALI STA 1020+00 TO 1024+88 (JN 201197 ENDS)

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



FILE: 126829_PRTYP002.dgn

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

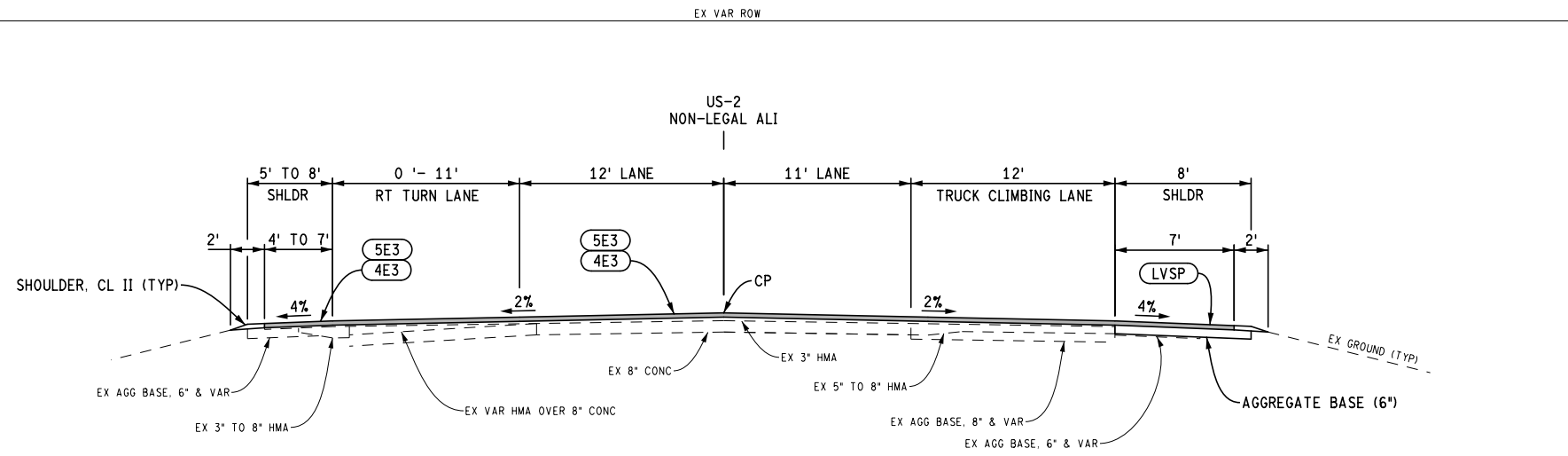
CS: 36022

JN: 126829A

201197A

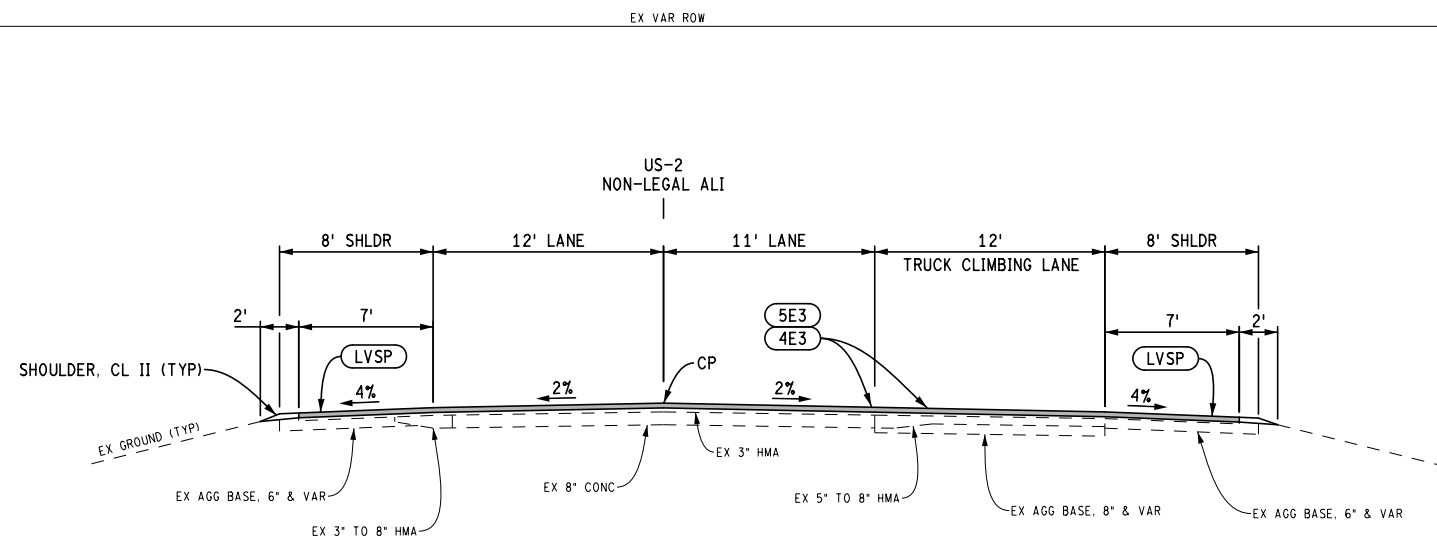
TYPICAL CROSS SECTIONS

DRAWING	SHEET
US-2 TYP 008	SECT 1 15



PROPOSED NORMAL SECTION

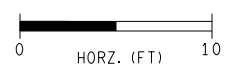
SECTION APPLIES TO:
 US-2 NON-LEGAL ALI STA 1024+88 (JN 126829A BEGINS) TO 1033+48



PROPOSED NORMAL SECTION

SECTION APPLIES TO:
 US-2 NON-LEGAL ALI STA 1033+48 TO 1057+78.79
 US-2 NON-LEGAL ALI STA 1080+61.40 TO 1085+00

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

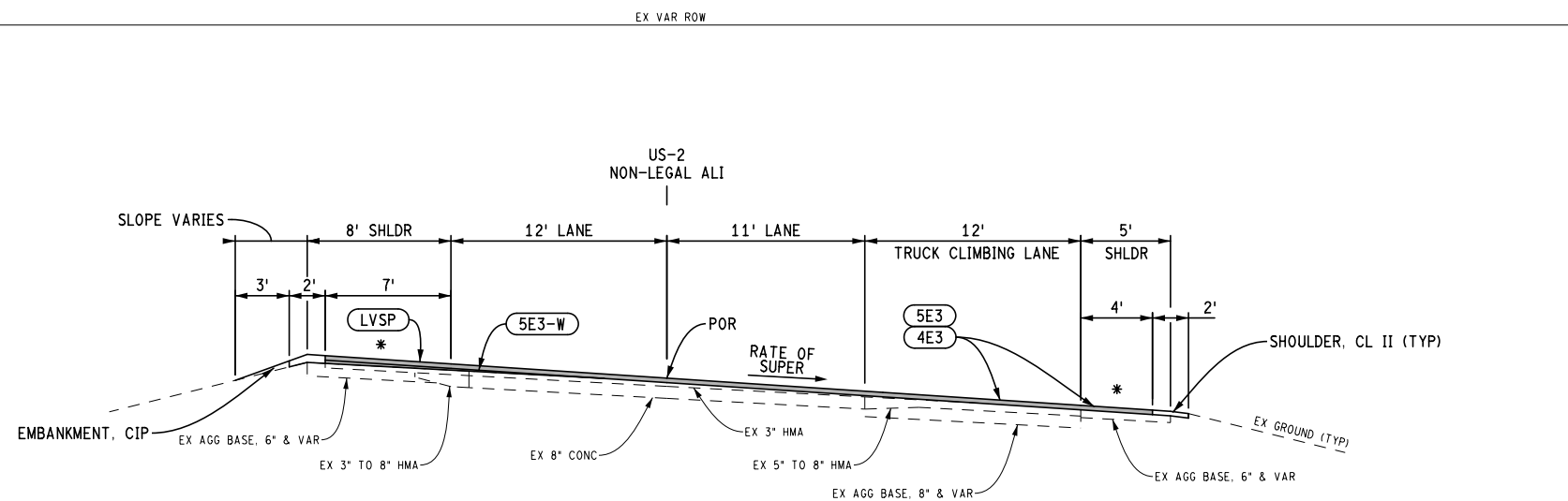


FILE: 126829_PRTYP003.dgn

DATE: 08/10/18
 DESIGN UNIT: KLEIKAMP
 TSC: CRYSTAL FALLS

CS: 36022
 JN: 126829A
 201197A

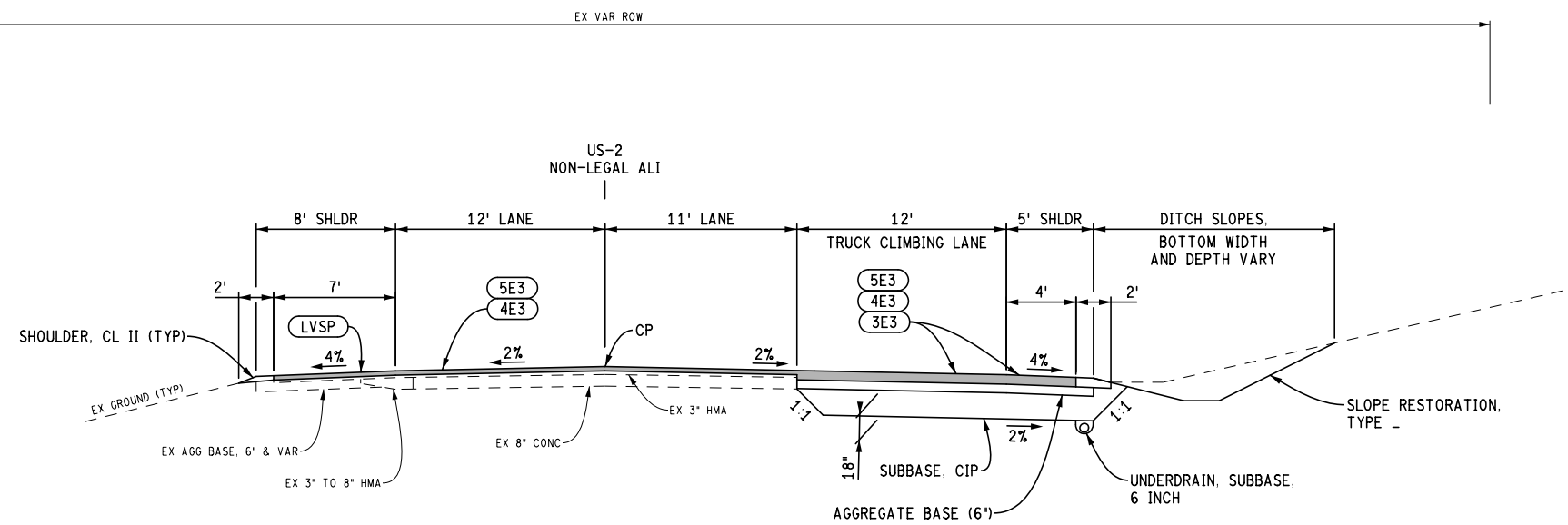
TYPICAL CROSS SECTIONS		DRAWING	SHEET
		US-2 TYP 009	SECT 1 16



PROPOSED SUPERELEVATED SECTION

SECTION APPLIES TO:
US-2 NON-LEGAL ALI STA 1057+78.79 TO 1080+61.40

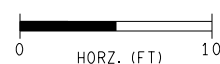
* FOR SHOULDER SLOPES IN SUPER TRANSITION AND FULL SUPER SEE STANDARD PLAN R-107 SERIES



PROPOSED NORMAL SECTION

SECTION APPLIES TO:
US-2 NON-LEGAL ALI STA 1085+00 TO 1110+85

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



FILE: 126829_PRTYP004.dgn

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

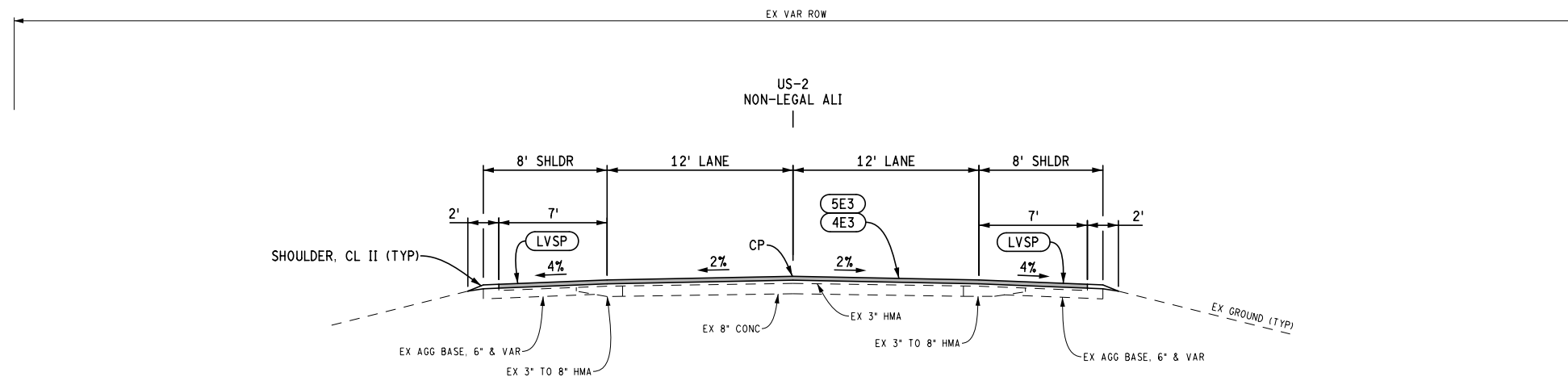
CS: 36022

JN: 126829A

201197A

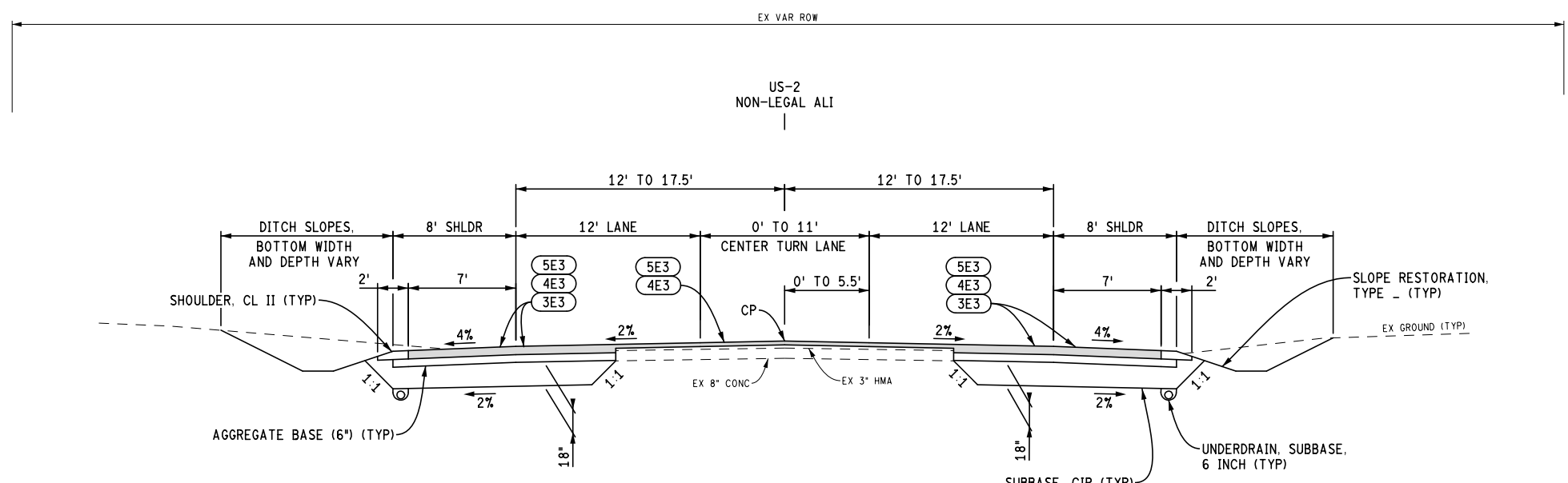
TYPICAL CROSS SECTIONS

DRAWING	SHEET
US-2 TYP 010	SECT 1 17



PROPOSED NORMAL SECTION

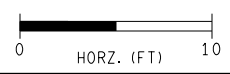
SECTION APPLIES TO:
 US-2 NON-LEGAL ALI STA 1110+85 TO 1151+35.02
 US-2 NON-LEGAL ALI STA 1160+27.72 TO 1202+50 (POE JN 126829A ENDS)



PROPOSED NORMAL SECTION

SECTION APPLIES TO:
 US-2 NON-LEGAL ALI STA 1151+35.02 TO 1160+27.72

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



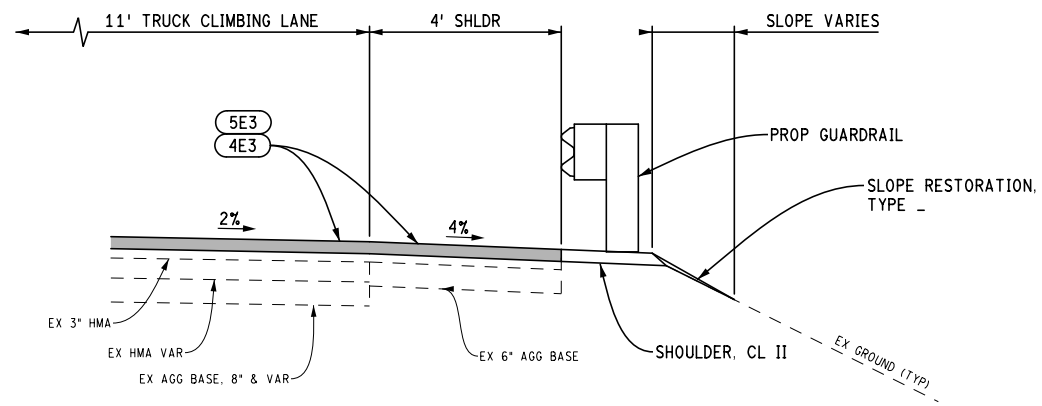
FILE: 126829_PRTYP005.dgn

DATE: 08/10/18
 DESIGN UNIT: KLEIKAMP
 TSC: CRYSTAL FALLS

CS: 36022
 JN: 126829A
 201197A

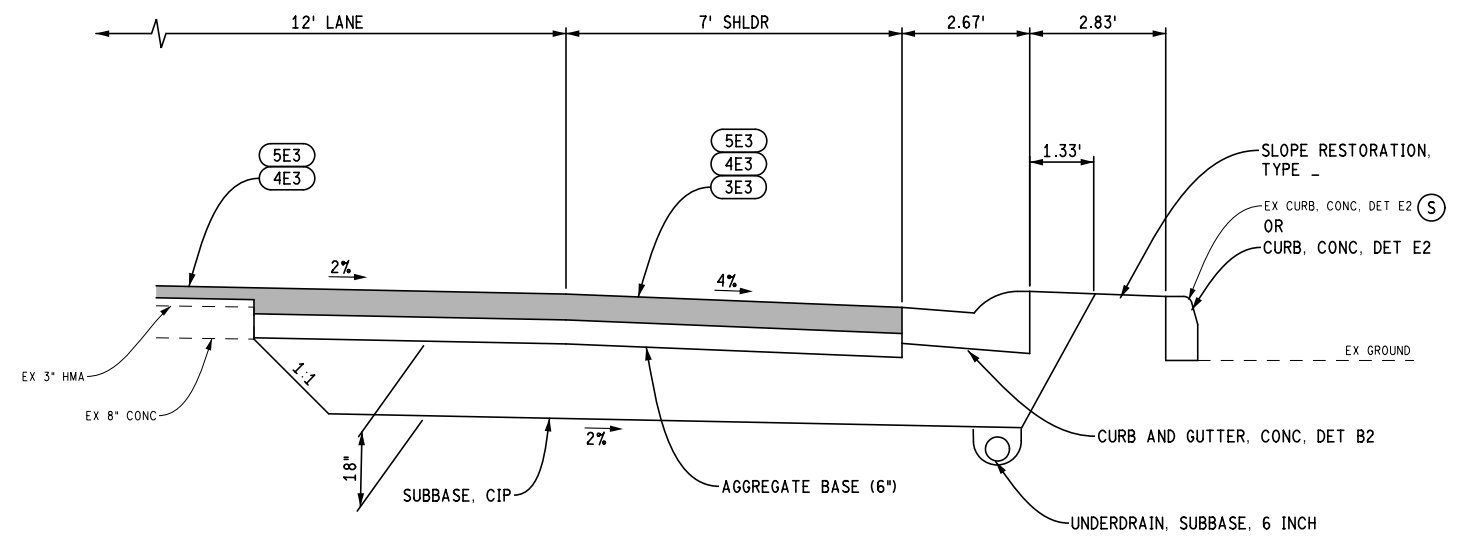
TYPICAL CROSS SECTIONS

DRAWING SHEET
 US-2 TYP 011 SECT 1
 18



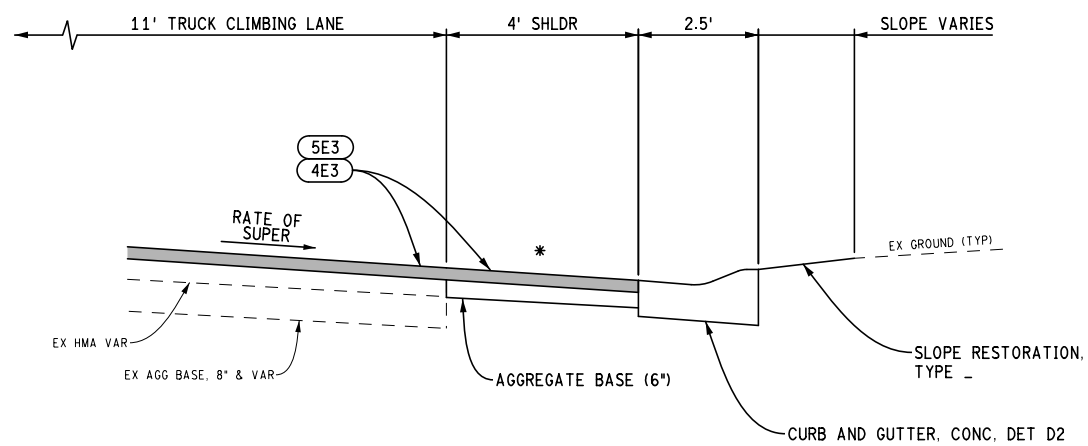
PROPOSED GUARDRAIL PARTIAL SECTION

SECTION APPLIES TO:
AS SHOWN ON PLANS (LT & RT)



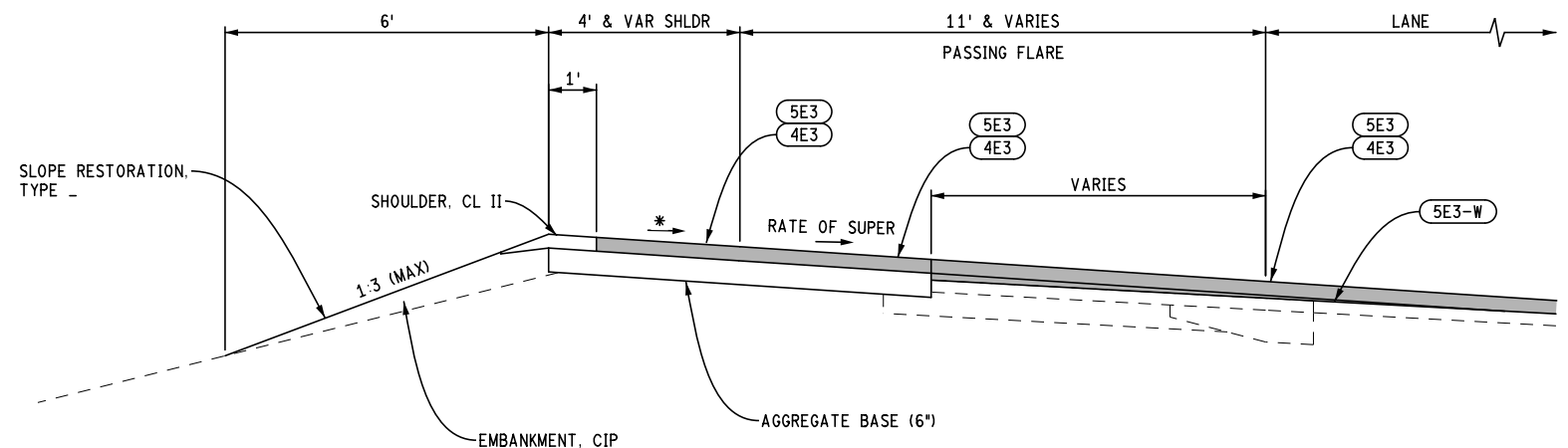
PROPOSED CURB AND GUTTER PARTIAL SECTION

SECTION APPLIES TO:
US-2 NON-LEGAL ALI STA 1156+00 TO 1157+00



PROPOSED CURB AND GUTTER SECTION

SECTION APPLIES TO:
US-2 NON-LEGAL ALI STA 1057+42 TO 1070+50



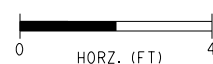
PROPOSED SUPERLEVATED PASSING FLARE SECTION

SECTION APPLIES TO:
US-2 NON-LEGAL ALI STA 1072+94 TO 1080+44

* FOR SHOULDER SLOPES IN SUPER TRANSITION AND
FULL SUPER SEE STANDARD PLAN R-107 SERIES

* FOR SHOULDER SLOPES IN SUPER TRANSITION AND
FULL SUPER SEE STANDARD PLAN R-107 SERIES

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

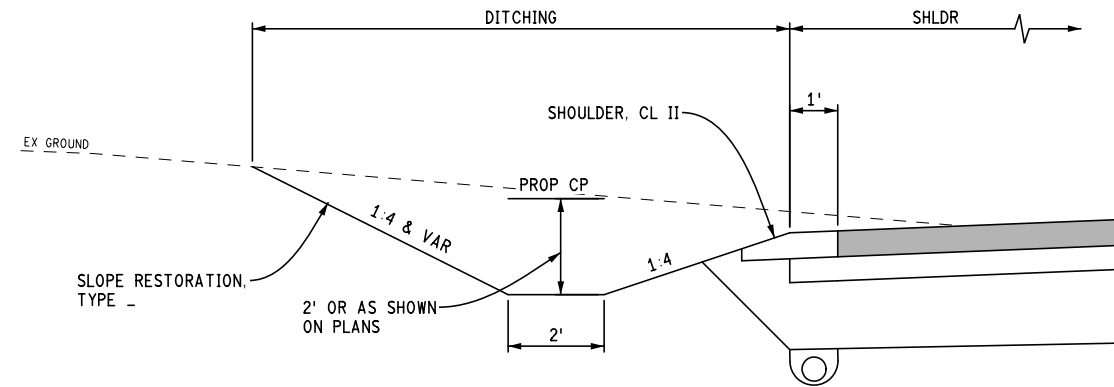


FILE: 126829_PRTYP006.dgn

DATE: 08/10/18
DESIGN UNIT: KLEIKAMP
TSC: CRYSTAL FALLS

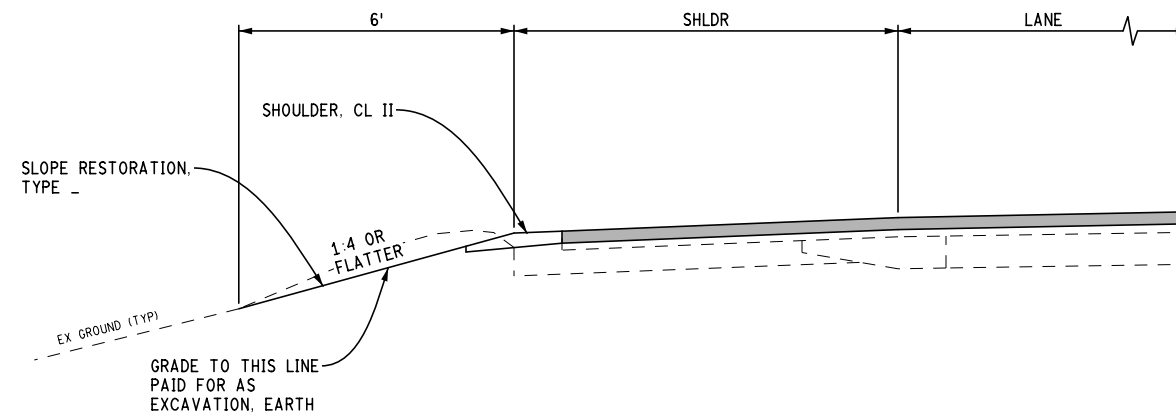
CS: 36022
JN: 126829A
201197A

TYPICAL CROSS SECTIONS		DRAWING	SHEET
US-2 TYP 012	SECT 1		19



PROPOSED DITCHING PARTIAL SECTION

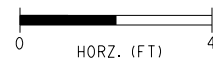
SECTION APPLIES TO:
AS SHOWN ON PLANS (LT & RT)



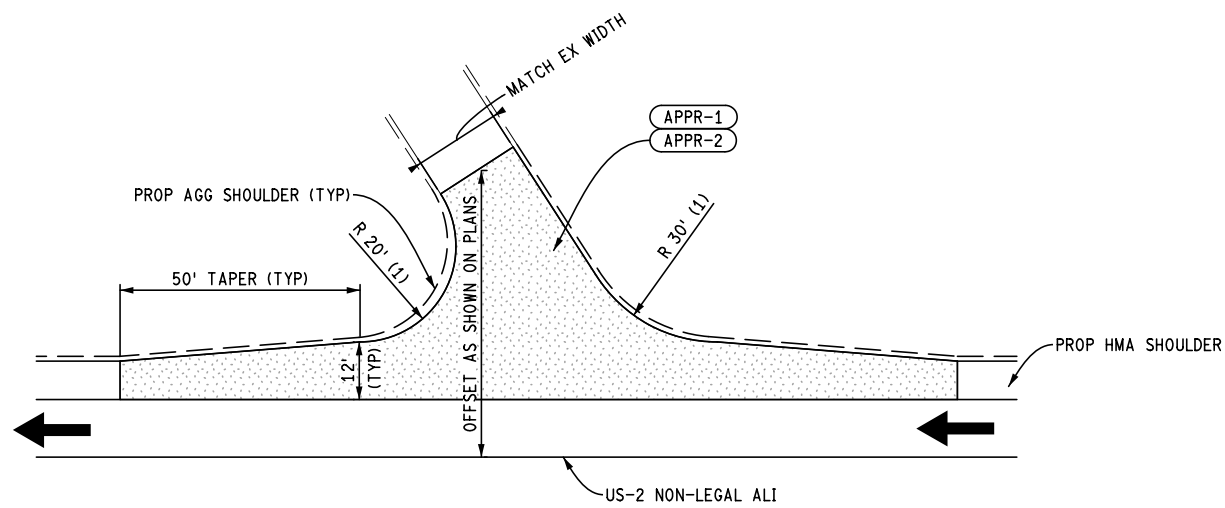
BERM GRADING PARTIAL SECTION

SECTION APPLIES TO:
AS DIRECTED BY ENGINEER

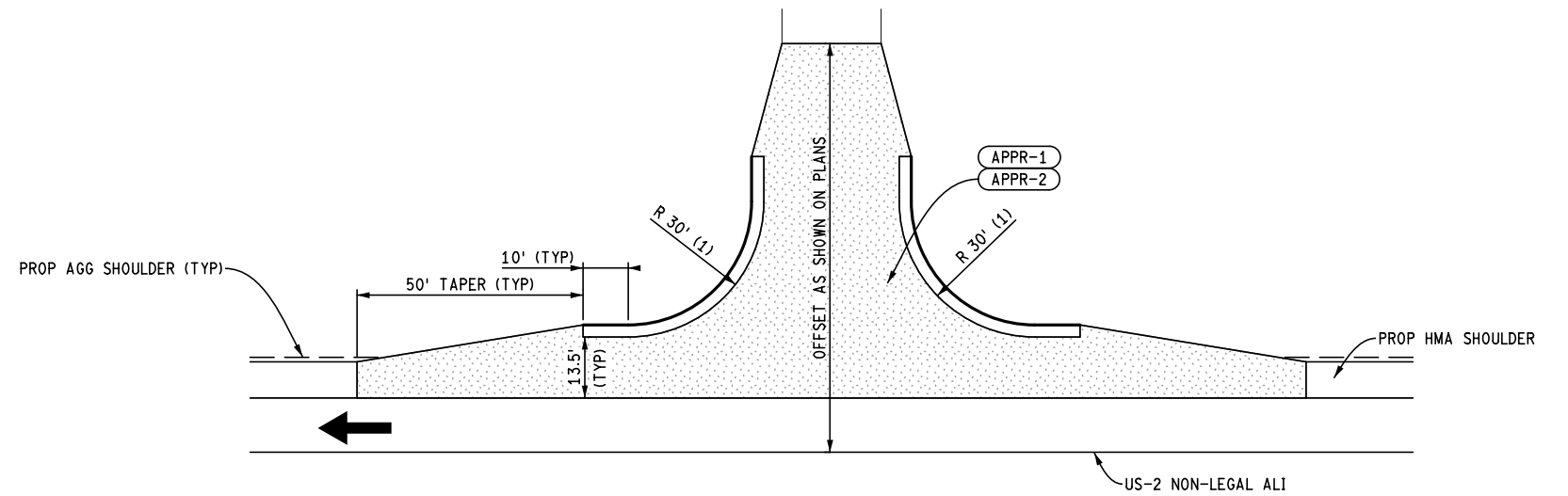
FINAL ROW PLAN REVISIONS		(SUBMITTAL DATE:)	
NO.	DATE	AUTH	DESCRIPTION



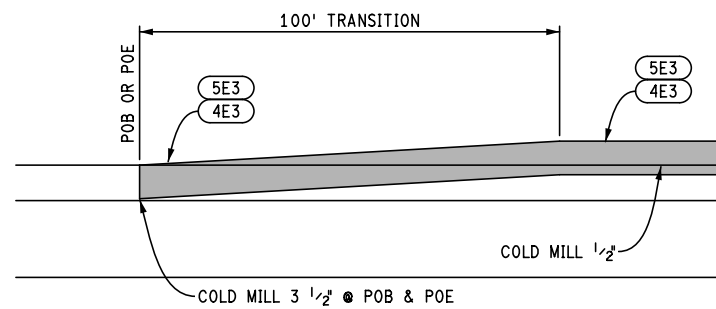
DATE: 08/10/18	CS: 36022	TYPICAL CROSS SECTIONS	DRAWING	SHEET
DESIGN UNIT: KLEIKAMP	JN: 126829A		US-2 TYP 013	SECT 1
FILE: 126829_PRTYP007.dgn	TSC: CRYSTAL FALLS	201197A		20



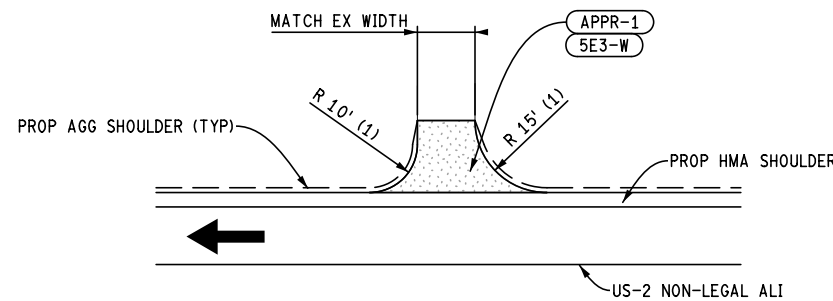
DETAIL II APPROACH



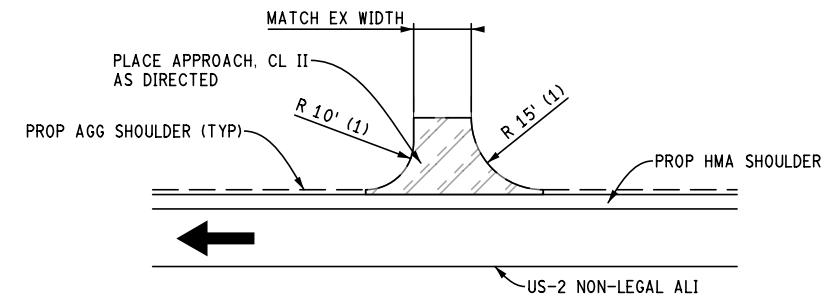
DETAIL III APPROACH



POB & POE PAVEMENT TRANSITION DETAIL



HMA DRIVE DETAIL



AGG DRIVE DETAIL

NOTES:
 (1) PROP RADII SHALL BE FIELD ADJUSTED TO BEST MATCH EX RADII AS DIRECTED BY THE ENGINEER.

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



NO SCALE

DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A

MISCELLANEOUS DETAILS		DRAWING	SHEET
US-2 MSCDET 001			21

NOTES

COORDINATE SYSTEM: STATE PLANE GRID
ZONE: MICHIGAN NORTH 2111
ELLIPSOID: GRS 80
HORIZONTAL DATUM: NAD 83 (CORS2011)
VERTICAL DATUM: NAVD 88
GEOID: GEOID 12A
UNITS: INTERNATIONAL FEET

GROUND DISTANCE CONVERSION

COORDINATES LISTED ARE **MCS83 (CORS11) STATE PLANE GRID COORDINATES.**

ALIGNMENT

NOTE: THE FOLLOWING ALIGNMENT IS A NON-LEGAL ALIGNMENT ESTABLISHED IN 2018 FOR CONSTRUCTION OF JN 201197 & JN 126829.

PRIMARY CONTROL

N/A

INTERMEDIATE CONTROL

N/A

BENCHMARKS

BENCHMARK: MDOT SURVEY DISK "TT 6 S RESET" 1996.
DESCRIPTION: MDOT SURVEY DISK "TT 6 S RESET" 1996. FD. SURVEY DISK IN TOP OF ROUND CONCRETE MONUMENT, CARSONITE POST 1' SOUTH OF MONUMENT.
STATION: +/- 1077+12 (2018) = +/- 77+13 (2007, JN100395)
OFFSET: 75.5' RT.
ACTION: INFORMATION ONLY
STATE PLANE COORDINATES:
 NORTHING: N/A
 EASTING: N/A
 ELEV: N/A

GOVERNMENT CORNERS

N/A

ALIGNMENT(S) POINTS

NOTE: THE FOLLOWING ALIGNMENT IS A NON-LEGAL ALIGNMENT ESTABLISHED IN 2018 FOR CONSTRUCTION OF JN 201197 & JN 126829.

JN 201197

ALIGNMENT POINT: P.I. 993+35+/- (2018) = P.I. 1036+32.08 – NO CURVE (2011 SURVEY, JN 87555)
DESCRIPTION: FD. IRON IN MONUMENT BOX ON CENTERLINE OF U.S.-2.
STATION: 993+35+/-
OFFSET: 0.00'
ACTION: INFORMATION ONLY (OUTSIDE PROJECT LIMITS)
STATE PLANE COORDINATES:
 NORTHING: N/A
 EASTING: N/A
 ELEV: N/A
WITNESSES: (2011 MDOT – K. KILPELA / J. SPEAR)
 N38°W 46.16' SET 5/8" REBAR/REF. POINT CAP
 N36°E 49.00' SET MAG NAIL/REF. POINT TAG
 S39°E 51.74' SET 5/8" REBAR/REF. POINT CAP
 S42°W 45.265' SET MAG NAIL/REF. POINT TAG

ALIGNMENT POINT: P.C. 1006+78.06 (2018) = P.C. 1049+67.56 BACK / 6+78.18 AHEAD (2011 SURVEY, JN 87555)
DESCRIPTION: FD. 5/8" REBAR IN MONUMENT BOX ON CENTERLINE OF US-2.
STATION: 1006+78.06
OFFSET: 0.00'
ACTION: PROTECT
STATE PLANE COORDINATES:
 NORTHING: N/A
 EASTING: N/A
 ELEV: N/A
WITNESSES: (2011 MDOT – K. KILPELA / J. SPEAR)
 N72°W 159.97' FD. D.H. NAIL/REF. TAG IN SIDE OF GUY POLE
 N62°E 175.73' FD. 1/2" REBAR
 S62°E 183.13' FD. MAG NAIL/REF. TAG IN CONC. SIGN BASE
 S76°W 161.47' FD. D.H. NAIL/REF. TAG IN SIDE OF GUY POLE

ALIGNMENT POINT: P.I. 1013+62.88 (2018) = P.I. 13+61.48 (2011 SURVEY, JN 87555)
DESCRIPTION: FD. REBAR/CAP #47957 IN MONUMENT BOX IN NORTHEAST ENTRANCE TO MCDONALD'S RESTAURANT.
STATION: 1013+62.88
OFFSET: 188.27' RT. (EXTERNAL)
ACTION: INFORMATION ONLY
STATE PLANE COORDINATES:
 NORTHING: N/A
 EASTING: N/A
 ELEV: N/A
WITNESSES: (2011 MDOT – JUNTUNEN)
 N56°W 51.71' FD. D.H. NAIL/REF. TAG NE/SIDE P. POLE
 N77°E 110.95' FD. D.H. NAIL/REF. TAG S/SIDE P. POLE
 S30°E 125.23' FD. D.H. NAIL/REF. TAG SW/SIDE 20" SPRUCE
 S82°W 73.96' FD. DRILL HOLE IN NE BOLT LIGHT BASE

ALIGNMENT POINTS CONT'D.

ALIGNMENT POINT: P.T. 1019+12.60 (2018) = P.T. 19+10.48 (2007, JN100395) = P.C. 18+95.19 (ROW FILE NO. 36-R-1, SHEET 40)
DESCRIPTION: FD. 5/8" REBAR IN MONUMENT BOX, 0.1' BELOW RIM.
STATION: 1019+12.60
OFFSET: 0.65' RT.
ACTION: PROTECT
STATE PLANE COORDINATES:
 NORTHING: N/A
 EASTING: N/A
 ELEV: N/A
WITNESSES: (2007 MDOT – JUNTUNEN)
 S22°E 122.38' FD. NAIL/REF. PT. TAG IN SIDE OF 23" MAPLE
 S30°W 683.60' P.I. AT STA. 1013+62.88
 S59°W 114.34' FD. 3/4" REBAR/REF. PT. CAP FLUSH W/ GROUND
 N09°W 75.66' FD. 3/4" REBAR/REF. PT. CAP FLUSH W/ GROUND
 S82°E 86.84' FD. NAIL/REF. PT. TAG IN SIDE OF 11" ASPEN

ALIGNMENT POINT: P.C. 1024+37.70 (2018) = P.C. 25+10.48 (2007, JN100395)
DESCRIPTION: FD. 5/8" REBAR W/ CAP #46667 IN MONUMENT BOX.
STATION: 1024+37.70
OFFSET: 0.00'
ACTION: PROTECT
STATE PLANE COORDINATES:
 NORTHING: N/A
 EASTING: N/A
 ELEV: N/A
WITNESSES: (2007 MDOT – JUNTUNEN)
 S82°W 136.56' SET DRILL HOLE IN NW BOLT OF SE BASE OF RIVERSIDE PLAZA SIGN
 N22°W 61.72' SET D.H. NAIL/REF. PT. TAG IN LIGHT/P. POLE
 N84°E 57.70' SET D.H. NAIL/REF. PT. TAG IN GUY POLE
 S22°E 89.21' SET 3/4" REBAR/REF. PT. CAP FLUSH W/ GROUND

JN 126829

ALIGNMENT POINT: OLD P.I. 1026+55 +/- (2018) = P.I. +/- 27+40 (2007, JN100395) = P.I. 27+28.33 (ROW FILE NO. 36-R-1, SHEET 40)
DESCRIPTION: FD. BOAT SPIKE, 0.55' BELOW GRADE.
STATION: 1026+55 +/-
OFFSET: 30.35' LT.
ACTION: INFORMATION ONLY
STATE PLANE COORDINATES:
 NORTHING: N/A
 EASTING: N/A
 ELEV: N/A
WITNESSES: (2007 MDOT – JUNTUNEN)
 S89°W 91.50' FD. 3/4" REBAR/REF. PT. CAP FLUSH W/ GROUND
 S89°W 49.57' FD. 3/4" REBAR/REF. PT. CAP FLUSH W/ GROUND
 N89°E 102.46' FD. 3/4" REBAR/REF. PT. CAP FLUSH W/ GROUND
 N89°E 137.03' FD. 3/4" REBAR/REF. PT. CAP FLUSH W/ GROUND

ALIGNMENT POINT: P.I. 1029+73.28 (2018) = P.I. 30+41.25 (2007, JN100395) = P.O.C.T. 30+29 (2004, VAN DRESE)
DESCRIPTION: FD. BOAT SPIKE W/ DRILL HOLE IN MONUMENT BOX, 0.6' BELOW RIM.
STATION: 1029+73.28
OFFSET: 12.40' LT.
ACTION: PROTECT & ADJUST
STATE PLANE COORDINATES:
 NORTHING: N/A
 EASTING: N/A
 ELEV: N/A
WITNESSES: (2007 MDOT – JUNTUNEN)
 S10°E 121.90' FD. 3/4" REBAR/REF. PT. CAP FLUSH W/ GROUND
 S10°E 78.02' FD. 3/4" REBAR/REF. PT. CAP FLUSH W/ GROUND
 N10°W 53.14' FD. 3/4" REBAR/REF. PT. CAP FLUSH W/ GROUND
 N10°W 89.57' FD. 3/4" REBAR/REF. PT. CAP FLUSH W/ GROUND

ALIGNMENT POINTS CONT'D.

ALIGNMENT POINT: P.T. 1035+08.07 (2018) = P.T. 35+71.26 (2007, JN100395)
DESCRIPTION: P.T. – NOT SET
STATION: 1035+08.07
OFFSET: 0.00'
ACTION: INFORMATION ONLY
STATE PLANE COORDINATES:
 NORTHING: N/A
 EASTING: N/A
 ELEV: N/A


ALIGNMENT POINT: P.C. 1061+13.34 (2018) = P.C. 61+14.60 (2007, JN100395)
DESCRIPTION: P.C. – NOT SET
STATION: 1061+13.34
OFFSET: 0.00'
ACTION: INFORMATION ONLY
STATE PLANE COORDINATES:
 NORTHING: N/A
 EASTING: N/A
 ELEV: N/A

ALIGNMENT POINT: P.I. 1069+92.44 (2018)
DESCRIPTION: P.I. – NOT SET
STATION: 1069+92.44
OFFSET: 221.11' LT. (EXTERNAL)
ACTION: INFORMATION ONLY
STATE PLANE COORDINATES:
 NORTHING: N/A
 EASTING: N/A
 ELEV: N/A

ALIGNMENT POINT: P.T. 1077+26.85 (2018)
DESCRIPTION: P.T. – NOT SET
STATION: 1077+26.85
OFFSET: 0.00'
ACTION: INFORMATION ONLY
STATE PLANE COORDINATES:
 NORTHING: N/A
 EASTING: N/A
 ELEV: N/A

ALIGNMENT POINT: P.C. 1098+51.53 (2018)
DESCRIPTION: P.C. – NOT SET
STATION: 1098+51.53
OFFSET: 0.00'
ACTION: INFORMATION ONLY
STATE PLANE COORDINATES:
 NORTHING: N/A
 EASTING: N/A
 ELEV: N/A

ALIGNMENT POINT: P.I. 1101+37.41 (2018)
DESCRIPTION: P.I. – NOT SET
STATION: 1101+37.41
OFFSET: 1.86' RT. (EXTERNAL)
ACTION: INFORMATION ONLY
STATE PLANE COORDINATES:
 NORTHING: N/A
 EASTING: N/A
 ELEV: N/A

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)									NO SCALE	DATE: 03/08/18	CS: 36022	SURVEY INFORMATION SHEET		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: KLEIKAMP	JN: 126829A/201197A			SURVEY	SECT 1
										FILE: 126829_US-2_SurveyInfoSheets.doc	TSC: CRYSTAL FALLS			001	22

ALIGNMENT POINTS CONT'D.

ALIGNMENT POINT: P.T. 1104+23.27 (2018)
DESCRIPTION: P.T. – NOT SET
STATION: 1104+23.27
OFFSET: 0.00'
ACTION: INFORMATION ONLY
STATE PLANE COORDINATES:
 NORTHING: N/A
 EASTING: N/A
 ELEV: N/A

ALIGNMENT POINT: P.O.T. 1214+07.47 (2018)
DESCRIPTION: P.O.T. – NOT SET
STATION: 1214+07.47
OFFSET: 0.00'
ACTION: INFORMATION ONLY (OUTSIDE PROJECT LIMITS)
STATE PLANE COORDINATES:
 NORTHING: N/A
 EASTING: N/A
 ELEV: N/A

MONUMENT PRESERVATION SUMMARY

MONUMENT PRESERVATION:
 NEED RECORDED L.C.R.C. 0 EACH
 NEED L.C.R.C. 0 EACH
 TOTAL-----> 0

MONUMENT PRESERVATION, VERTICAL: 0 EACH

MONUMENT BOX: 0 EACH

PROTECT CORNERS: 4 EACH

MONUMENT BOX, ADJUST: 1 EACH

MONUMENT BOX, REMOVE: 0 EACH


MONUMENT BOX, UNCOVER: 0 EACH

NOTES:

PAYMENT FOR "MONUMENT BOX, UNCOVER" SHALL BE CONSIDERED INCLUDED IN OTHER CONTRACT ITEMS.

PAYMENT FOR "MONUMENT BOX, REMOVE" SHALL BE CONSIDERED INCLUDED IN THE ITEM BID FOR "MONUMENT BOX".

THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 821 "PRESERVATION OF LAND MONUMENTS, CONTROL POINTS, AND PROPERTY CORNERS" SHALL BE USED ON THIS PROJECT.

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)													NO SCALE	DATE: 03/08/18	CS: 36022	SURVEY INFORMATION SHEET		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	DESIGN UNIT: KLEIKAMP	JN: 126829A/201197A	SURVEY 002	SECT 1 23								
								FILE: 126829_US-2_SurveyInfoSheets.doc	TSC: CRYSTAL FALLS										

2ND AVE

1ST AVE

RIVER AVE

IRON RIVER

ALIGNMENT KEY

US-2 NON-LEGAL ALI: US-2 CONSTRUCTION ALIGNMENT AS RETRACED FOR JN 126829A FROM OLD PLANS AND AERIAL IMAGES.

SECTION 26
T43N, R35W
CITY OF IRON RIVER

US-2 NON-LEGAL ALI
POT = 990+00.00
N = 481,656.13
E = 25,830,291.01

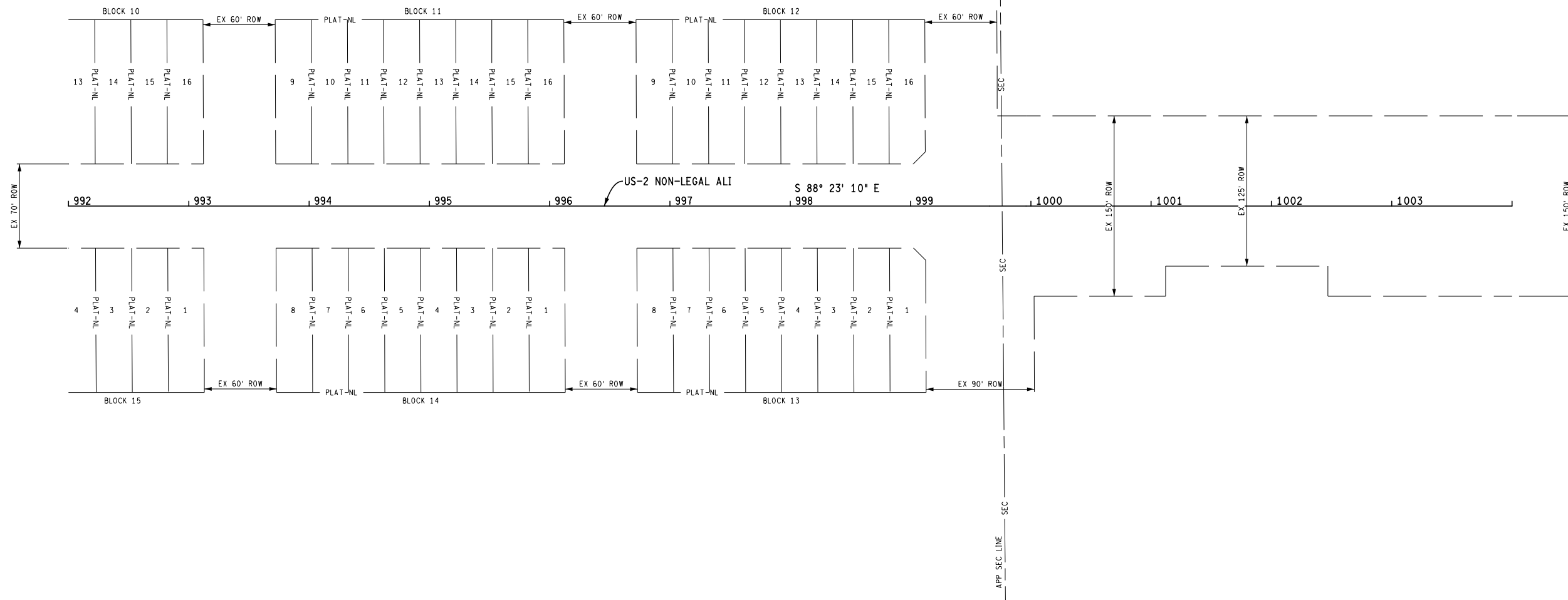
SECTION 25
T43N, R35W
CITY OF IRON RIVER

N



CS 36022
JN 201197A
POB STA 998+90.00
CS MP 0.217
PR 1277603
PR MP 19.393

PLAT OF THE VILLAGE OF IRON RIVER



2ND AVE

1ST AVE

RIVER AVE

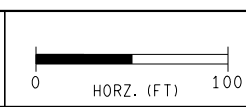
IRON RIVER

US-2
POT=990+00.00

US-2

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

NO.	DATE	AUTH	DESCRIPTION



FILE: 126829_US2_992.dgn

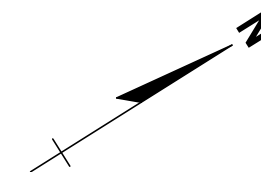
DATE: 08/10/18
DESIGN UNIT: KLEIKAMP
TSC: CRYSTAL FALLS

CS: 36022
JN: 126829A
201197A

ALIGNMENT
US-2 STA 992+00 TO STA 1004+00

DRAWING SHEET
US-2 ALI 001
SECT 1
24

CS 36022
JN 201197A ENDS
CS 36022
JN 126829A BEGINS
STA 1024+88.33
CS MP 0.708
PR 1277904
PR MP 1.071



US-2

US-2



CAYUGA ST

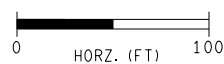
PEARL AVE

HAMMER ST

BATES ST

TERRY ST

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



FILE: 126829_US2_1016.dgn

DATE: 08/10/18
DESIGN UNIT: KLEIKAMP
TSC: CRYSTAL FALLS

CS: 36022
JN: 126829A
201197A

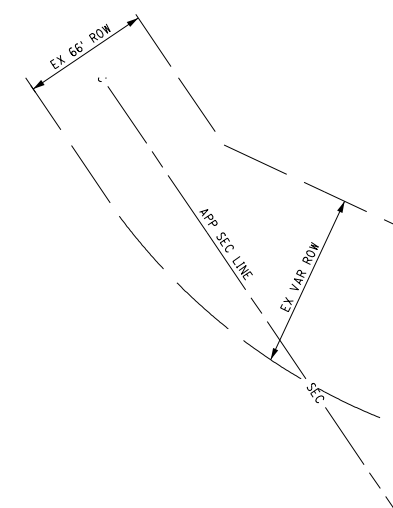
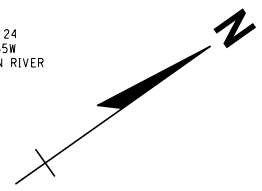
ALIGNMENT
US-2 STA 1016+00 TO STA 1028+00

DRAWING SHEET
US-2 ALI 003
SECT 1
26

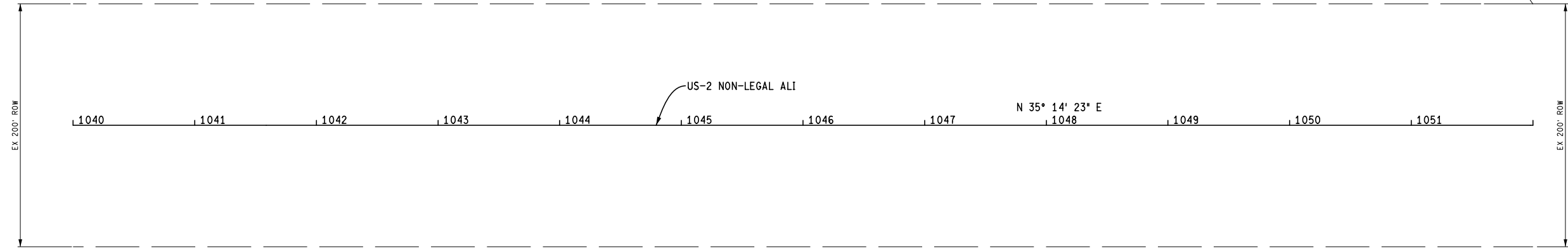
SECTION 25
T43N, R35W
CITY OF IRON RIVER

SECTION 24
T43N, R35W
CITY OF IRON RIVER

HUNTER RD

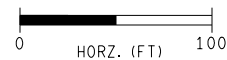


US-2



US-2

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



FILE: 126829_US2_1040.dgn

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

CS: 36022

JN: 126829A

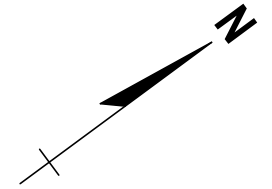
201197A

ALIGNMENT
US-2 STA 1040+00 TO STA 1052+00

DRAWING	SHEET
US-2 ALI 005	SECT 1 28

WATER TANK RD

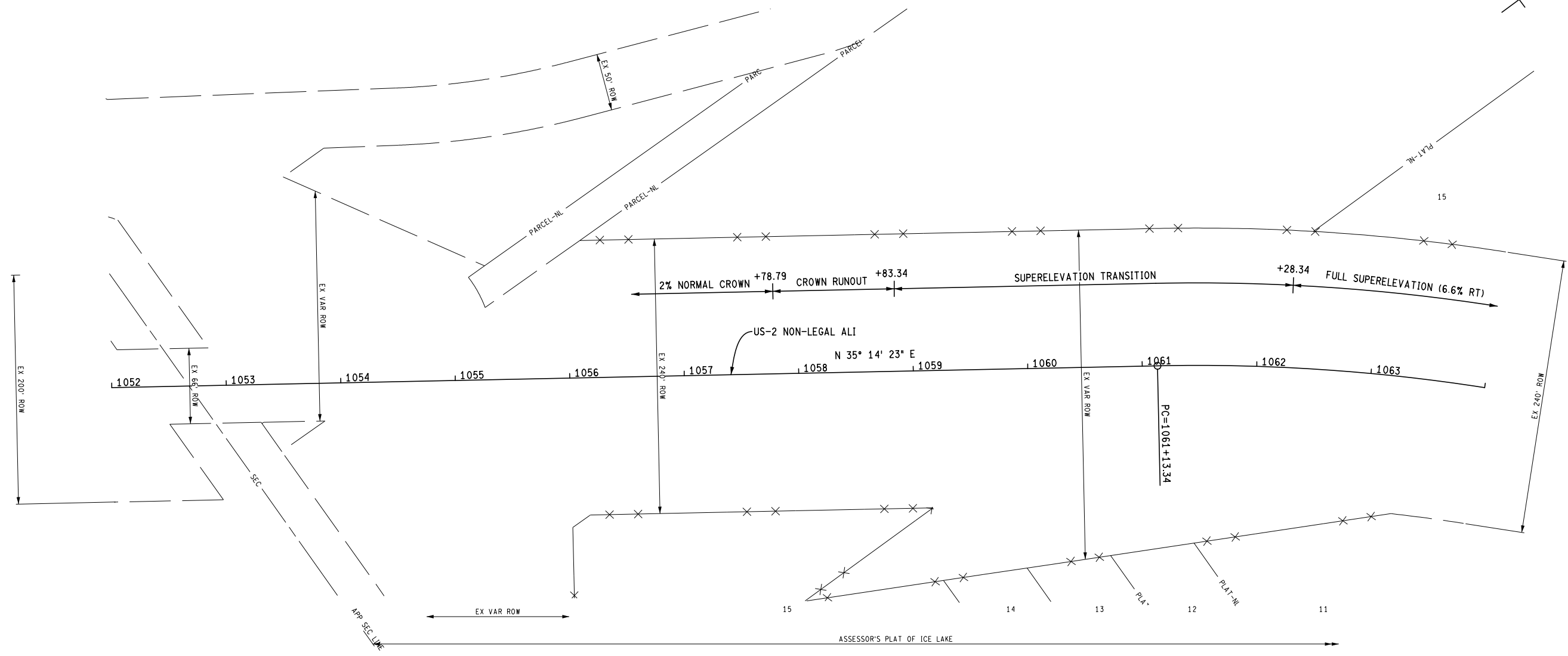
SECTION 24
T43N, R35W
CITY OF IRON RIVER



HUNTER RD

US-2

US-2

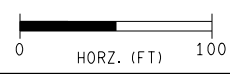


SECTION 25
T43N, R35W
CITY OF IRON RIVER

SECTION 24
T43N, R35W
CITY OF IRON RIVER

HUNTER RD

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



DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A

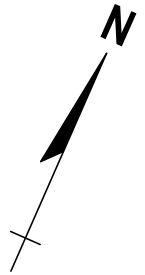
ALIGNMENT	
US-2 STA 1052+00 TO STA 1064+00	

DRAWING	SHEET
US-2 ALI 006	SECT 1 29

US-2 NON-LEGAL ALI
 $\Delta = 56^\circ 28' 23''$ (RT)
 $D = 3^\circ 30' 00''$
 $T = 879.10'$
 $L = 1.613.51'$
 $R = 1.637.02'$
 $E = 221.11'$
 $PC = 1061+13.34$ $N = 485.668.19$ $E = 25,835.335.01$
 $PI = 1069+92.44$ $N = 486.386.19$ $E = 25,835.842.25$
 $PT = 1077+26.85$ $N = 486.359.92$ $E = 25,836.720.97$
 $EX\ SUPER = 5.5\%$ (RT)
 $PR\ SUPER = 6.6\%$ (RT)
 $\Delta\% = 0.44\%$

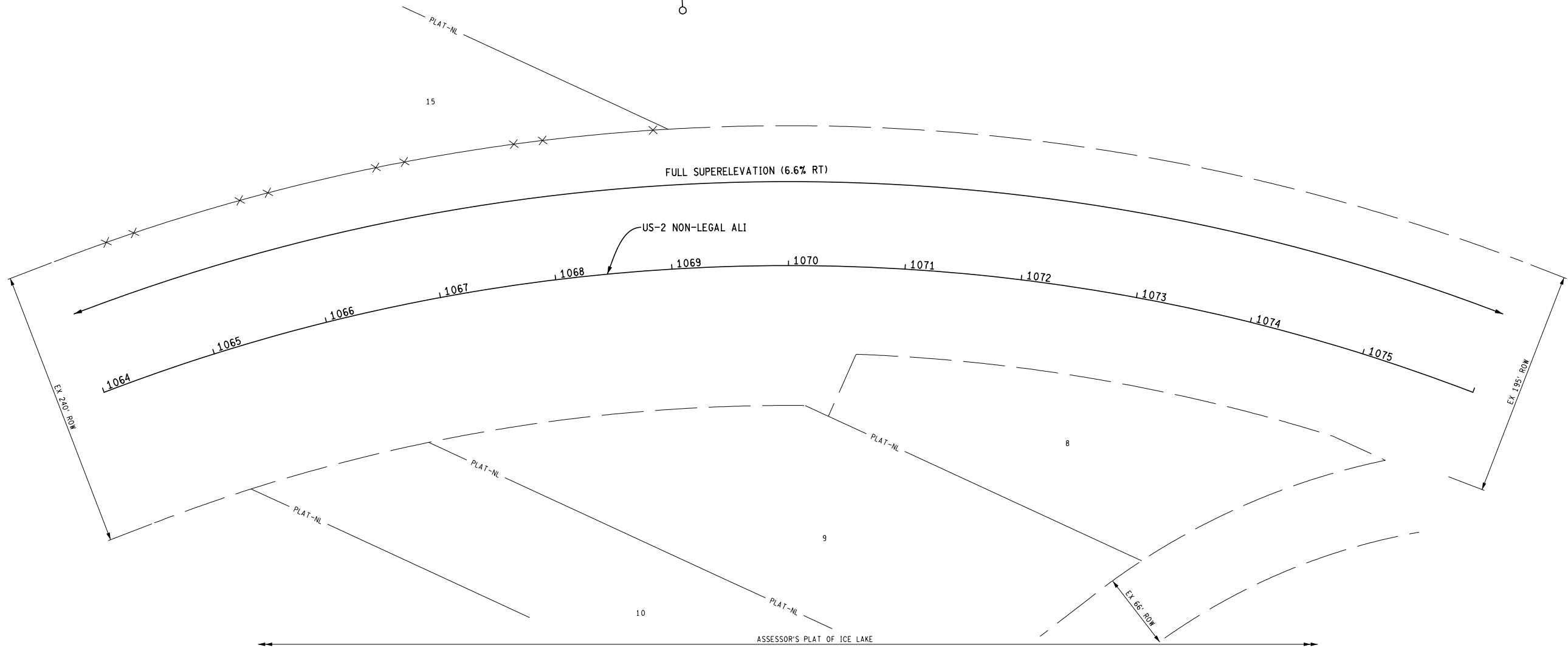
SECTION 24
 T43N, R35W
 CITY OF IRON RIVER

PI=1069+92.44



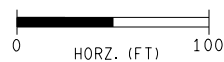
US-2

US-2



LALLEY RD

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



FILE: 126829_US2_1064.dgn

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

CS: 36022

JN: 126829A

201197A

ALIGNMENT

US-2 STA 1064+00 TO STA 1076+00

DRAWING SHEET

US-2 ALI 007 SECT 1 30

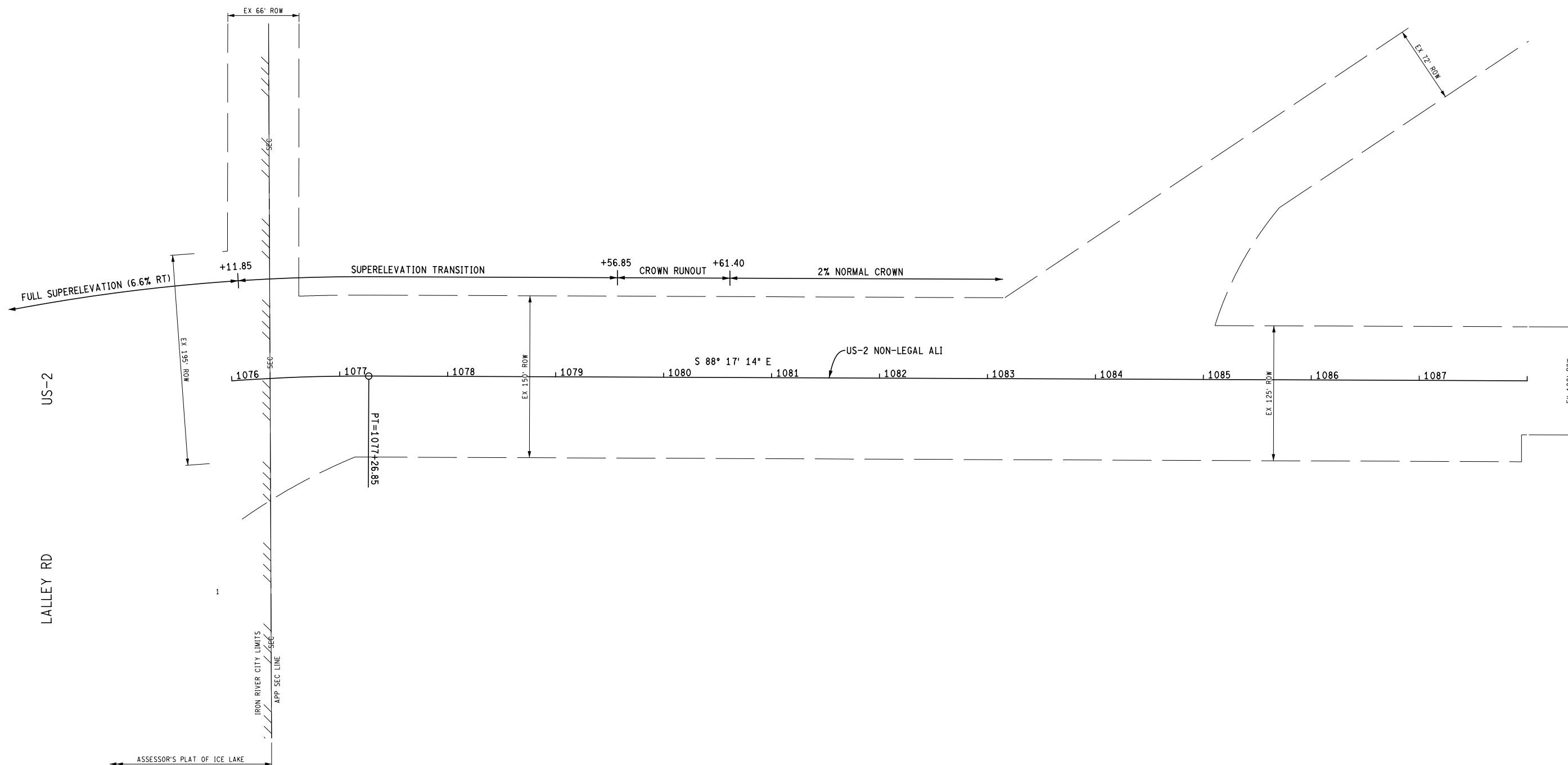
BATES MINE TWP RD

SUNSET LAKE RD

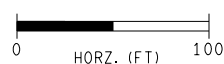
SECTION 24
T43N, R35W
CITY OF IRON RIVER

SECTION 19
T43N, R34W
BATES TWP

N



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



FILE: 126829_US2_1076.dgn

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

CS: 36022

JN: 126829A

201197A

ALIGNMENT

US-2 STA 1076+00 TO STA 1088+00

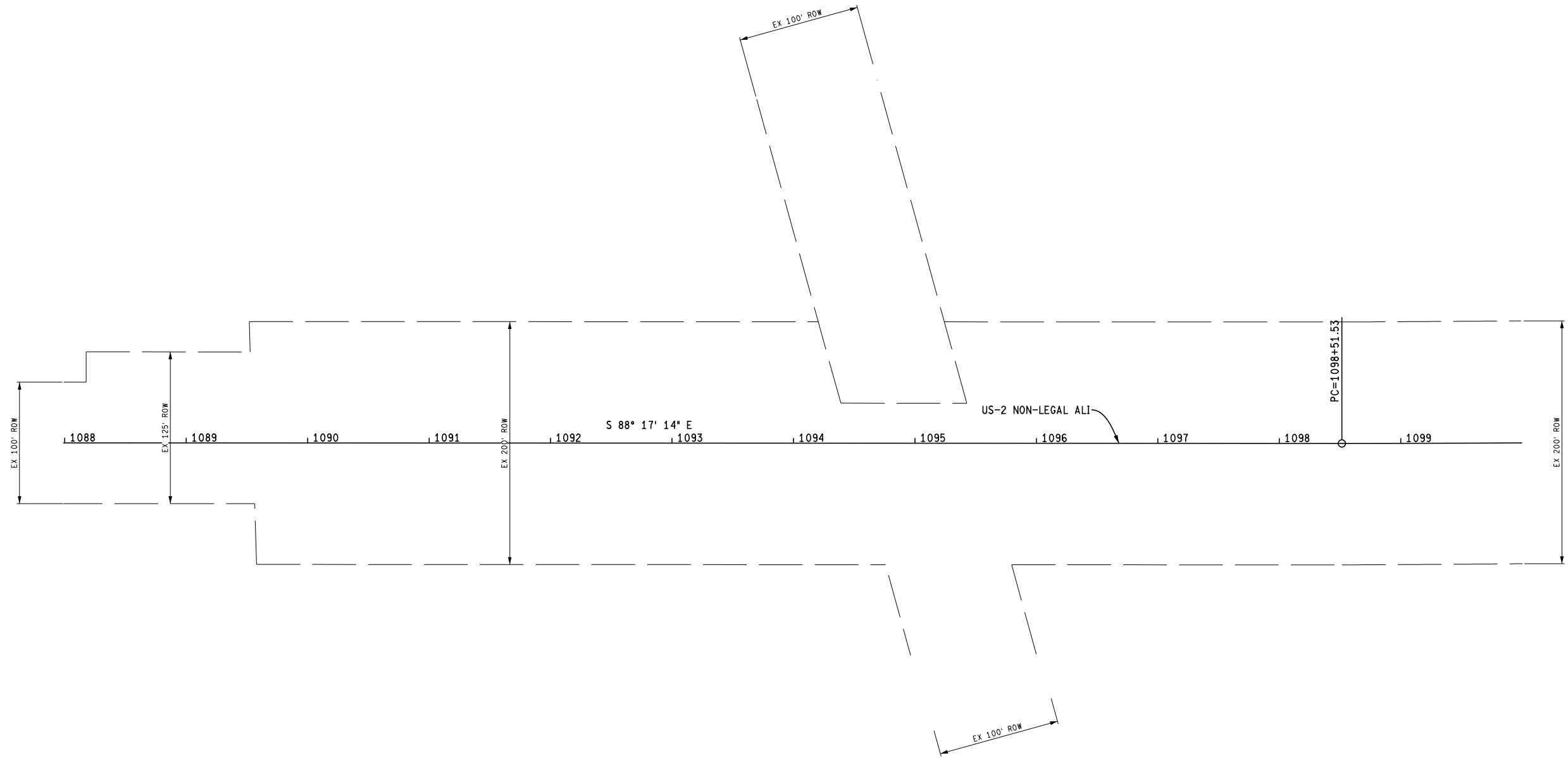
DRAWING	SHEET
US-2 ALI 008	SECT 1 31

ABANDONED RR

SECTION 19
T43N, R34W
BATES TWP



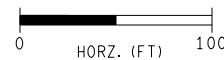
US-2



US-2

ABANDONED RR
(ANDERSON RD)

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



FILE: 126829_US2_1088.dgn	DATE: 08/10/18	CS: 36022	ALIGNMENT	DRAWING	SHEET
TSC: CRYSTAL FALLS	DESIGN UNIT: KLEIKAMP	JN: 126829A	US-2 STA 1088+00 TO STA 1100+00	US-2 ALI 009	SECT 1
		201197A			32

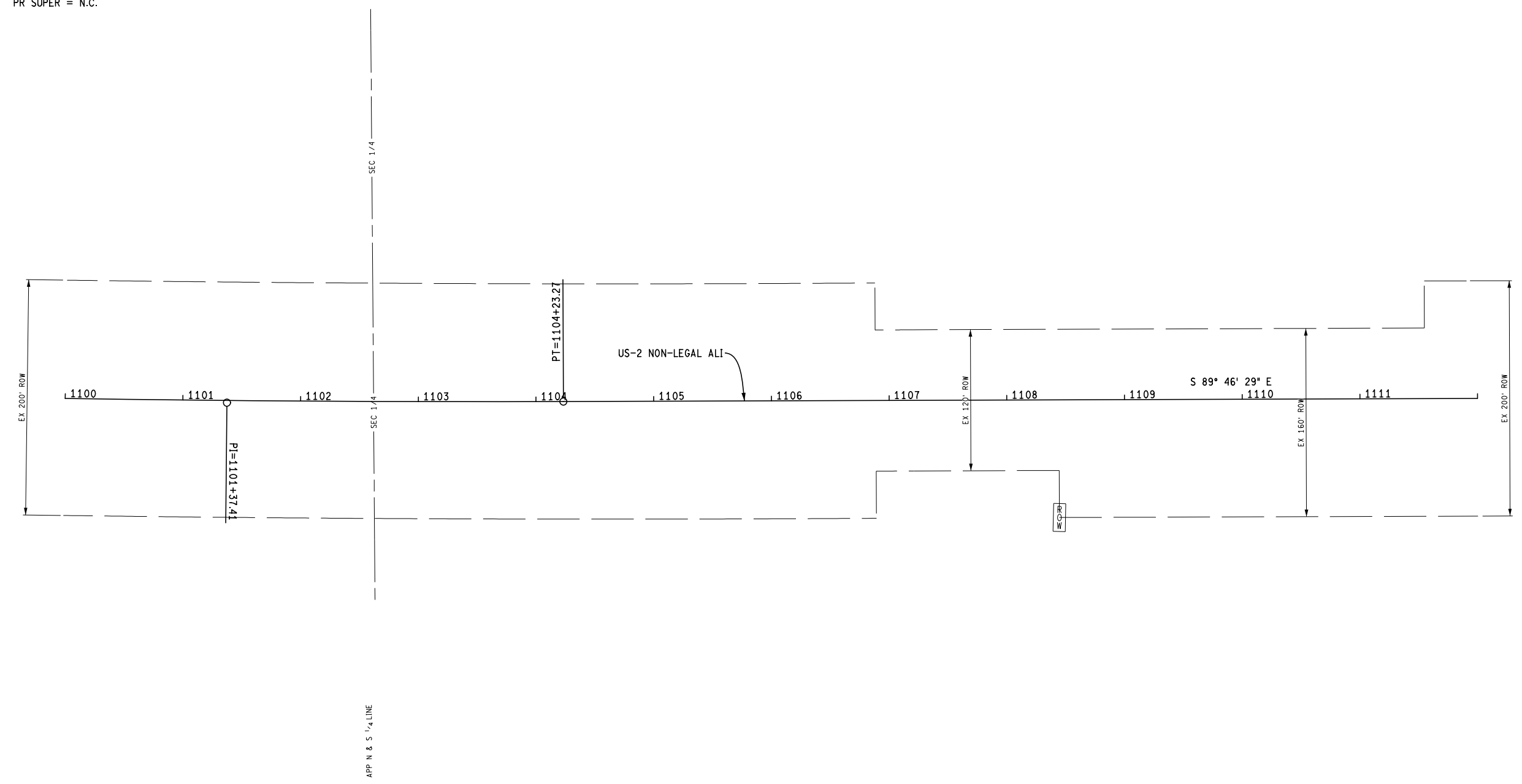
US-2 NON-LEGAL ALI
 $\Delta = 1^\circ 29' 14''$ (LT)
 $D = 0^\circ 15' 37''$
 $T = 285.88'$
 $L = 571.74'$
 $R = 22,024.80'$
 $E = 1.86'$
 $PC = 1098+51.53$ $N = 486,296.42$ $E = 25,838,844.70$
 $PI = 1101+37.41$ $N = 486,287.87$ $E = 25,839,130.45$
 $PT = 1104+23.27$ $N = 486,286.75$ $E = 25,839,416.34$
EX SUPER = N.C.
PR SUPER = N.C.

SECTION 19
T43N, R34W
BATES TWP

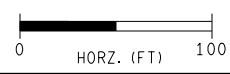


US-2

US-2



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



DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A

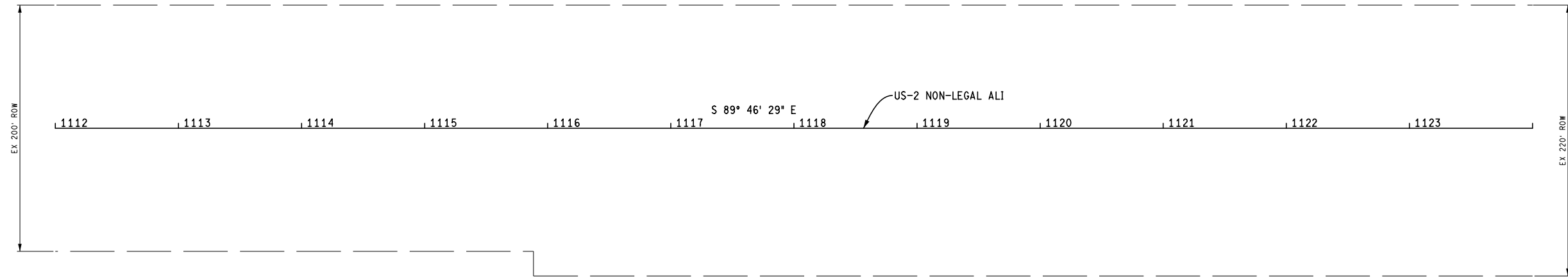
ALIGNMENT		DRAWING	SHEET
US-2 STA 1100+00 TO STA 1112+00		US-2 ALI 010	SECT 1 33

FILE: 126829_US2_1100.dgn

SECTION 19
T43N, R34W
BATES TWP



US-2

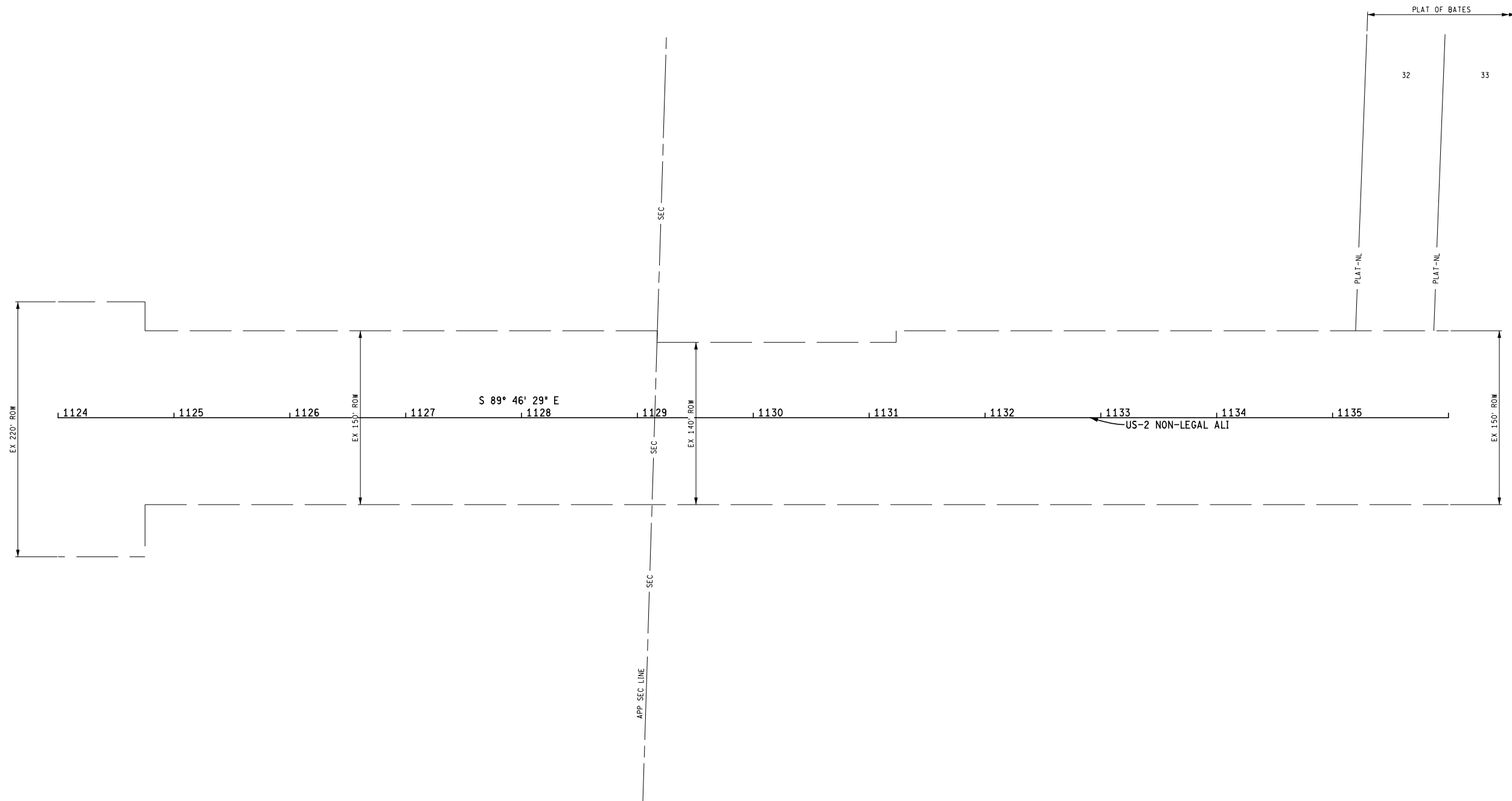


US-2

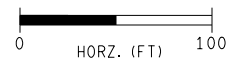
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										DATE: 08/10/18			CS: 36022		ALIGNMENT		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: KLEIKAMP	JN: 126829A	TSC: CRYSTAL FALLS	201197A	US-2 STA 1112+00 TO STA 1124+00		US-2 ALI 011	SECT 1 34	
								FILE: 126829_US2_1112.dgn										

SECTION 19
T43N, R34W
BATES TWP

SECTION 20
T43N, R34W
BATES TWP



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



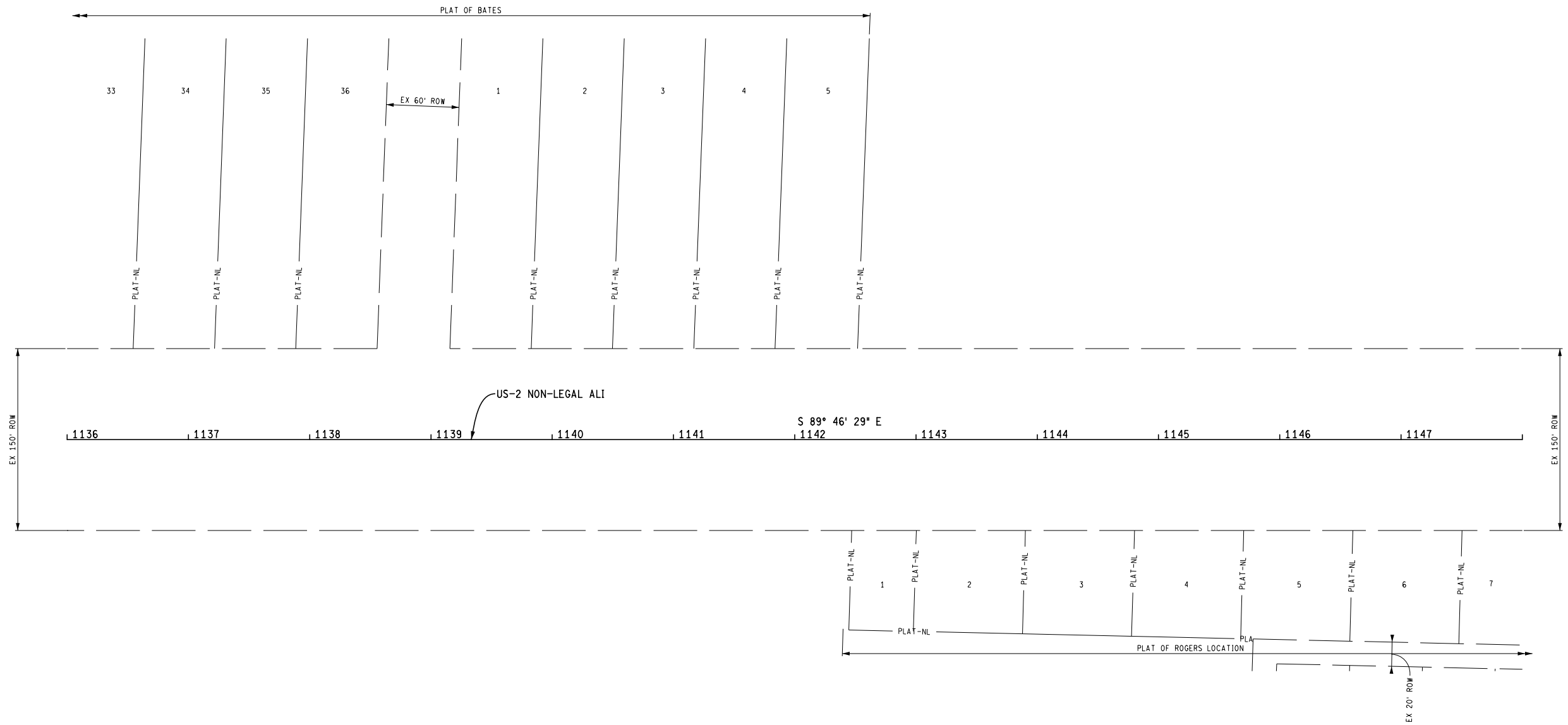
FILE: 126829_US2_1124.dgn	DATE: 08/10/18	CS: 36022
TSC: CRYSTAL FALLS	DESIGN UNIT: KLEIKAMP	JN: 126829A
		201197A

ALIGNMENT	
US-2 STA 1124+00 TO STA 1136+00	

DRAWING	SHEET
US-2 ALI 012	SECT 1 35

KELLSTROM RD

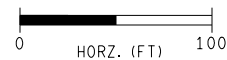
SECTION 20
T43N, R34W
BATES TWP



US-2

US-2

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



FILE: 126829_US2_1136.dgn

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

CS: 36022

JN: 126829A

201197A

ALIGNMENT
US-2 STA 1136+00 TO STA 1148+00

DRAWING	SHEET
US-2 ALI 013	SECT 1 36

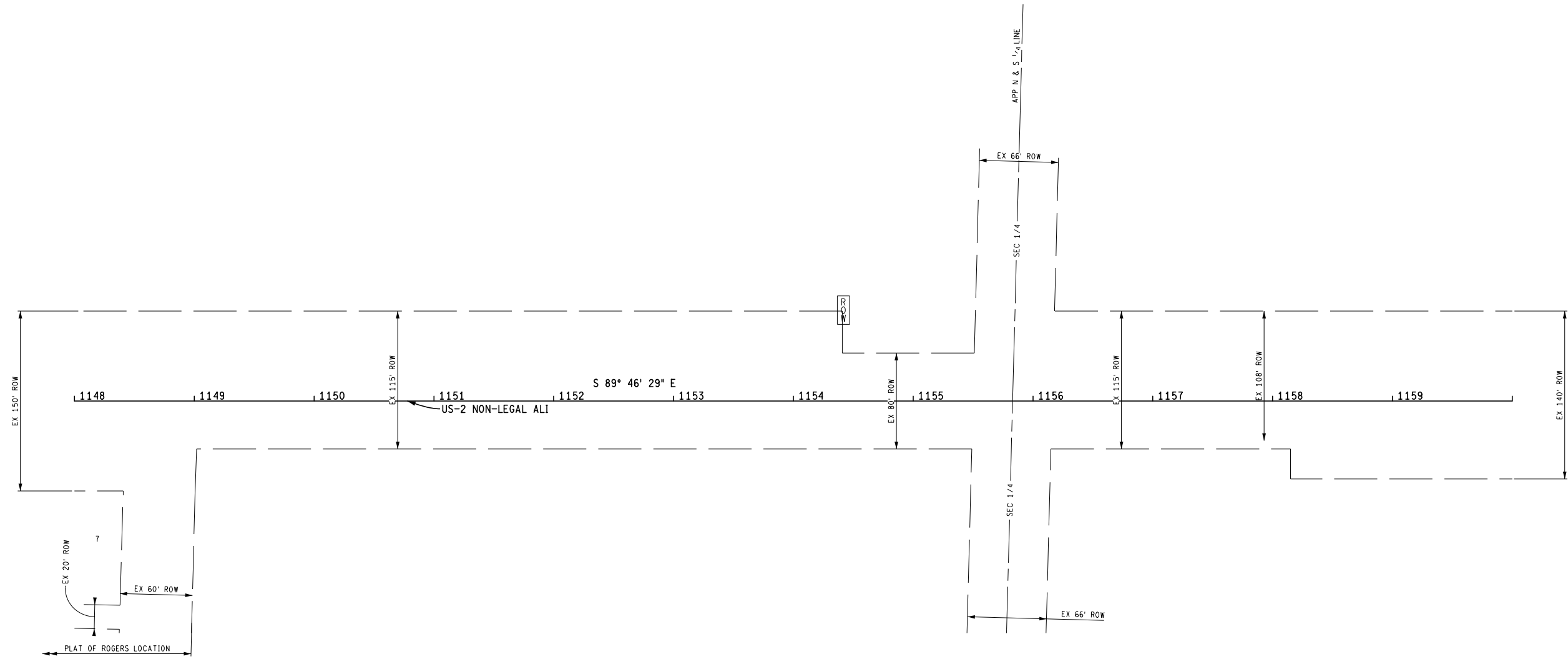
REIMAN RD

SECTION 20
T43N, R34W
BATES TWP



US-2

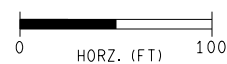
US-2



ROGERS AVE

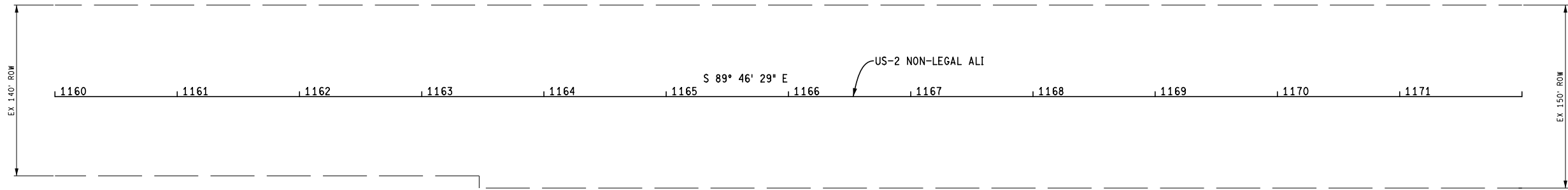
BATES-GAASTRA RD

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



DATE: 08/10/18	CS: 36022	ALIGNMENT US-2 STA 1148+00 TO STA 1160+00	DRAWING US-2 ALI 014	SHEET 37
DESIGN UNIT: KLEIKAMP	JN: 126829A			
FILE: 126829_US2_1148.dgn	TSC: CRYSTAL FALLS	201197A		

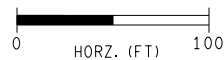
SECTION 20
 T43N, R34W
 BATES TWP



US-2

US-2

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



FILE: 126829_US2_1160.dgn

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

CS: 36022

JN: 126829A

201197A

ALIGNMENT

US-2 STA 1160+00 TO STA 1172+00

DRAWING	SHEET
US-2 ALI 015	SECT 1 38

LARSON RD

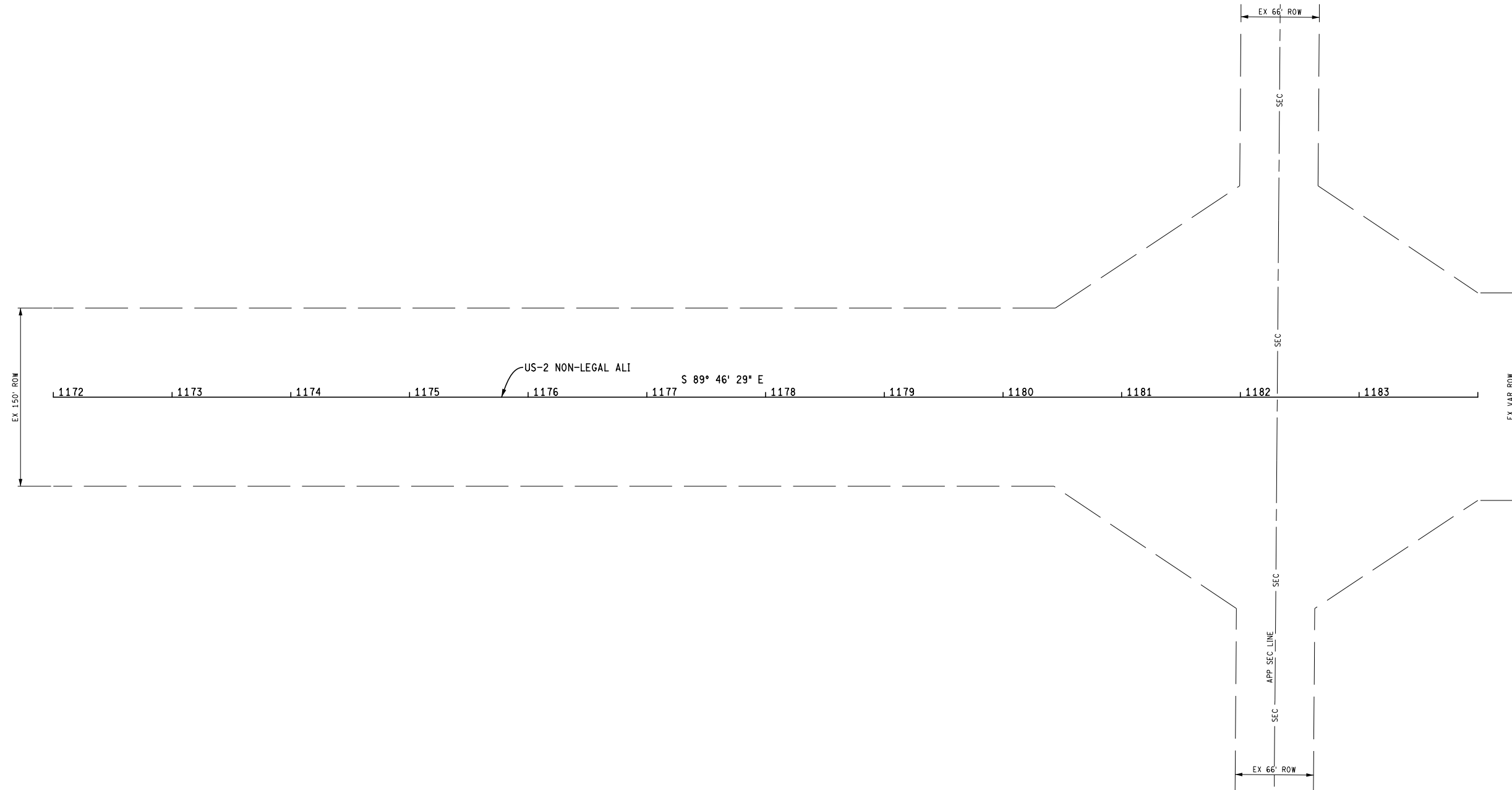
SECTION 20
T43N, R34W
BATES TWP

SECTION 21
T43N, R34W
BATES TWP



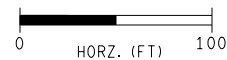
US-2

US-2



PASSAMANI RD

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



FILE: 126829_US2_1172.dgn

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

CS: 36022

JN: 126829A

201197A

ALIGNMENT

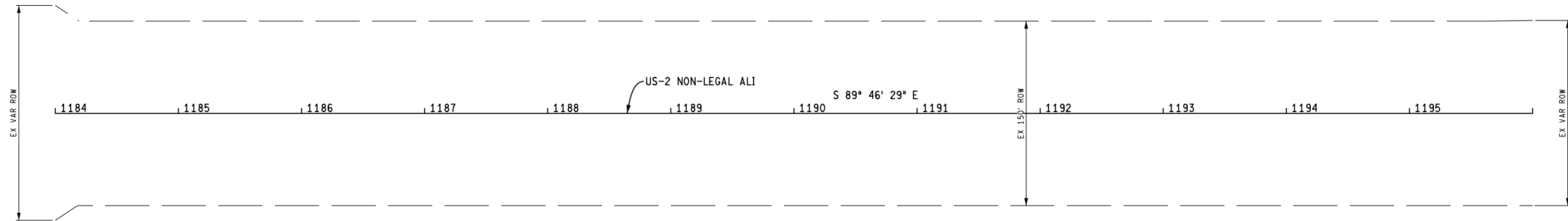
US-2 STA 1172+00 TO STA 1184+00

DRAWING	SHEET
US-2 ALI 016	SECT 1 39

SECTION 21
T43N, R34W
BATES TWP



US-2



US-2

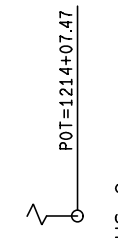
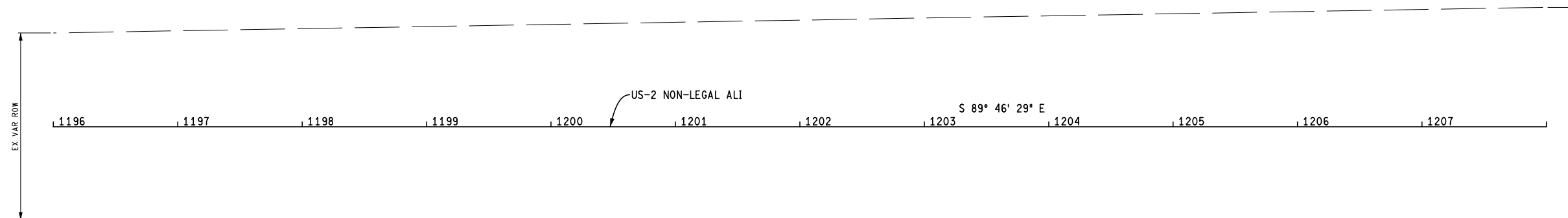
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										DATE: 08/10/18			CS: 36022		ALIGNMENT		DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: KLEIKAMP	JN: 126829A	US-2 STA 1184+00 TO STA 1196+00		US-2	SECT 1			
										TSC: CRYSTAL FALLS	201197A			ALI	40			
								FILE: 126829_US2_1184.dgn				017						

SECTION 21
T43N, R34W
BATES TWP

US-2 NON-LEGAL ALI
POT = 1214+07.47
N = 486,243.54
E = 25,850,400.46



CS 36022
JN 126829A
POE STA 1202+50.00
CS MP 4.061
PR 1277904
PR MP 4.424



US-2

US-2

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								MDOT Michigan Department of Transportation		DATE: 08/10/18		CS: 36022		ALIGNMENT		DRAWING		SHEET	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION	0 100 HORZ. (FT)		DESIGN UNIT: KLEIKAMP	JN: 126829A	US-2 STA 1196+00 TO STA 1208+00		US-2	ALI	SECT 1			
										TSC: CRYSTAL FALLS	201197A			018				41	
FILE: 126829_US2_1196.dgn																			

2ND AVE

1ST AVE

RIVER AVE

IRON RIVER

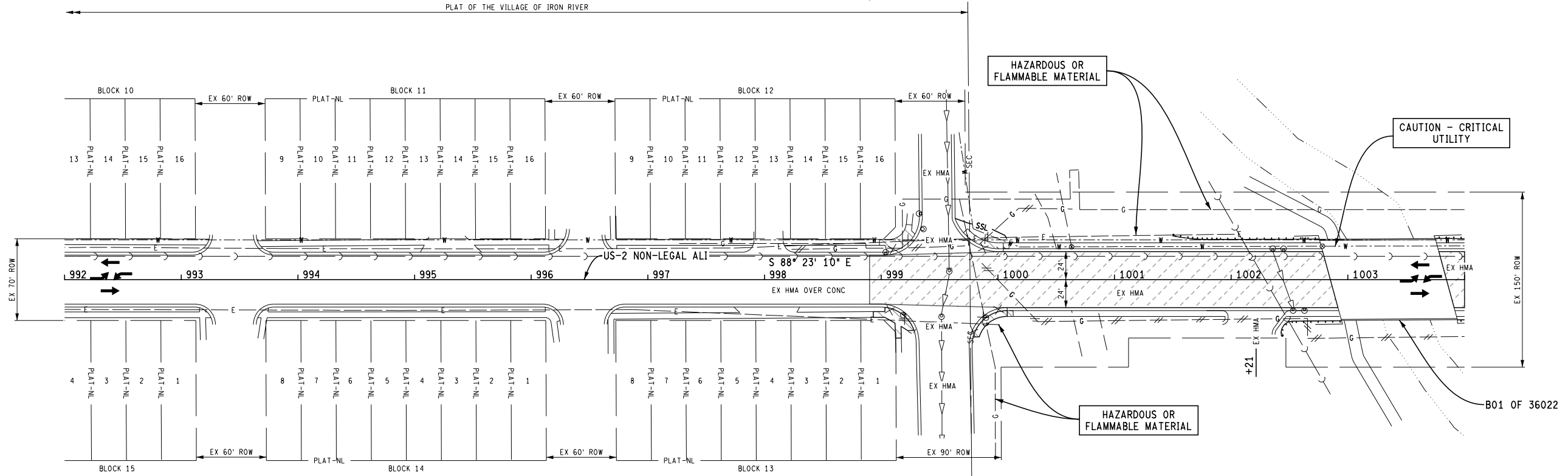
SECTION 26
T43N, R35W
CITY OF IRON RIVER

SECTION 25
T43N, R35W
CITY OF IRON RIVER



CS 36022
JN 201197A
POB STA 998+90.00
CS MP 0.217
PR 1277603
PR MP 19.393

PLAT OF THE VILLAGE OF IRON RIVER



US-2

US-2

QUANTITIES THIS SHEET

JN 201197		
CAT 0001		
143	Ft	Curb and Gutter, Rem
118	Syd	Sidewalk, Rem
16	Cyd	Excavation, Earth
2147	Syd	Cold Milling HMA Surface

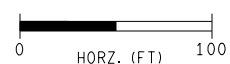
2ND AVE

1ST AVE

RIVER AVE

IRON RIVER

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



FILE: 126829_US2_992.dgn

DATE: 08/10/18
DESIGN UNIT: KLEIKAMP
TSC: CRYSTAL FALLS

CS: 36022
JN: 126829A
201197A

REMOVAL
US-2 STA 992+00 TO STA 1004+00

DRAWING SHEET
US-2 REM 001
SECT 1
42

2ND AVE

1ST AVE

RIVER AVE

IRON RIVER

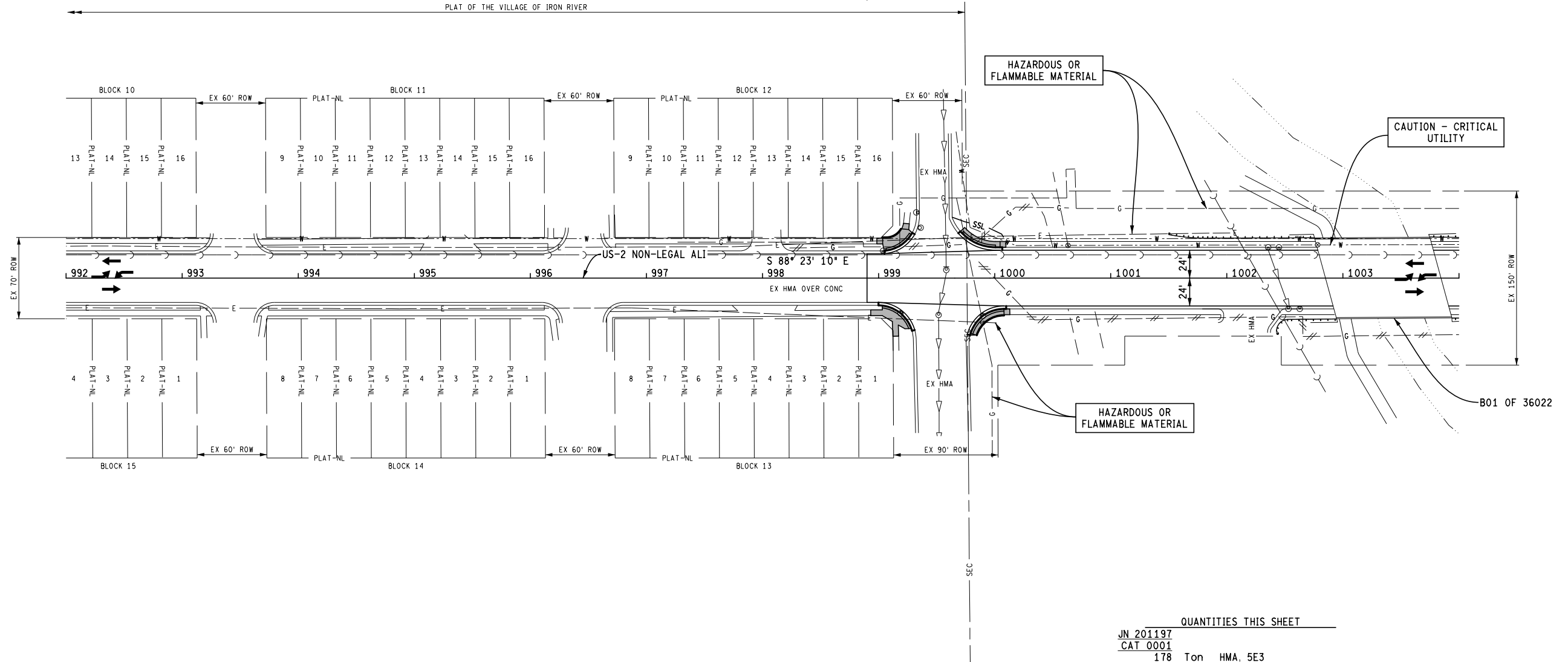
SECTION 26
T43N, R35W
CITY OF IRON RIVER

SECTION 25
T43N, R35W
CITY OF IRON RIVER



CS 36022
JN 201197A
POB STA 998+90.00
CS MP 0.217
PR 1277603
PR MP 19.393

PLAT OF THE VILLAGE OF IRON RIVER



QUANTITIES THIS SHEET
 JN 201197
 CAT 0001
 178 Ton HMA, 5E3

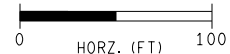
2ND AVE

1ST AVE

RIVER AVE

IRON RIVER

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



FILE: 126829_US2_992.dgn

DATE: 08/10/18
DESIGN UNIT: KLEIKAMP
TSC: CRYSTAL FALLS

CS: 36022
JN: 126829A
201197A

CONSTRUCTION
US-2 STA 992+00 TO STA 1004+00

DRAWING	SHEET
US-2 CON 001	SECT 1 43

CEDAR AVE

LAY AVE

SECTION 25
T43N, R35W
CITY OF IRON RIVER



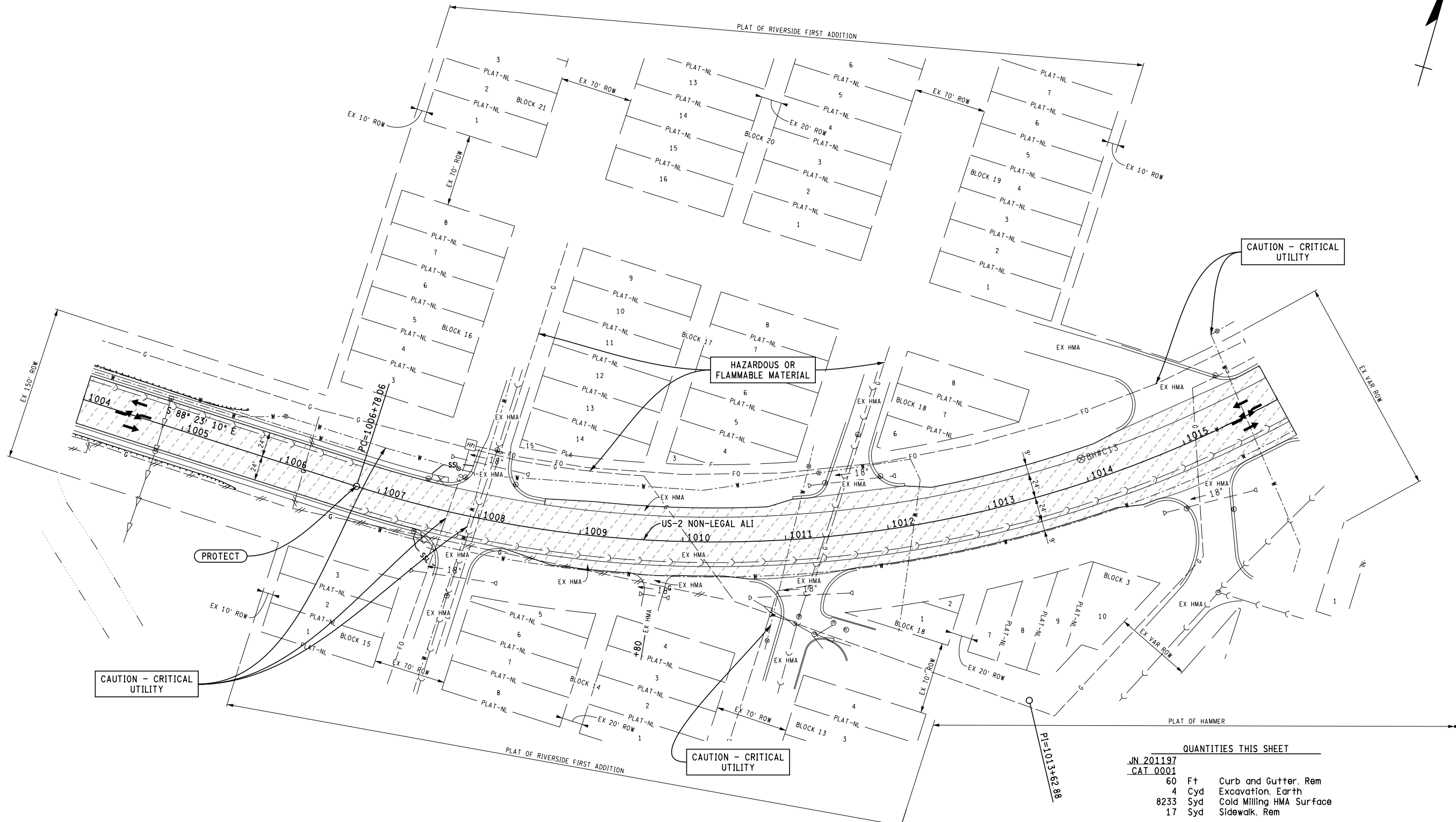
CAYUGA ST

US-2

US-2

CAYUGA ST

ADAMS ST



CAUTION - CRITICAL UTILITY

HAZARDOUS OR FLAMMABLE MATERIAL

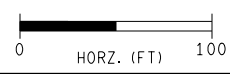
CAUTION - CRITICAL UTILITY

CAUTION - CRITICAL UTILITY

QUANTITIES THIS SHEET

JN 201197	60	Ft	Curb and Gutter, Rem
CAT 0001	4	Cyd	Excavation, Earth
	8233	Syd	Cold Milling HMA Surface
	17	Syd	Sidewalk, Rem

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

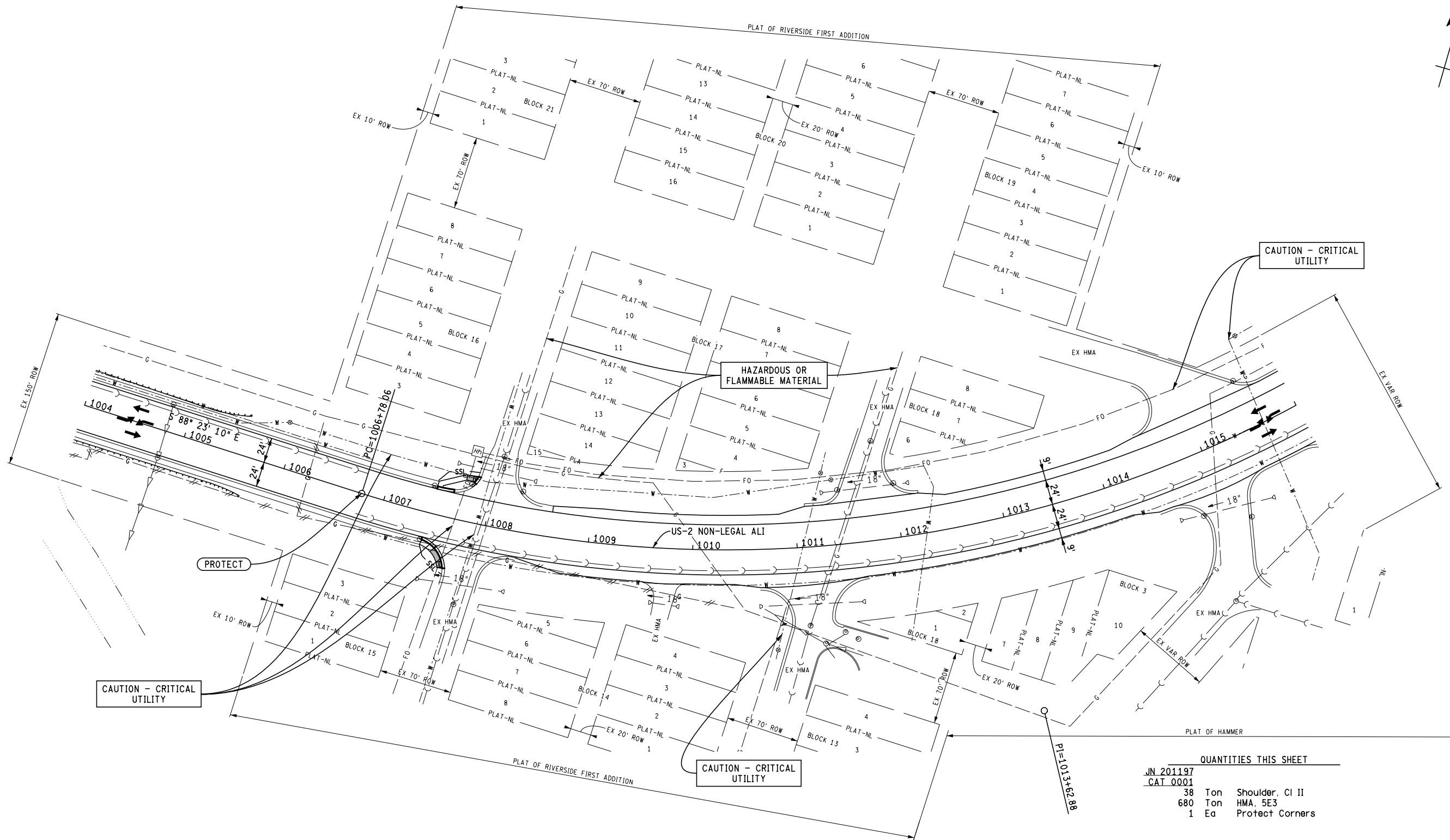


DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A

REMOVAL		DRAWING	SHEET
US-2 STA 1004+00 TO STA 1016+00		US-2	SECT 1
		REM	44
		002	

FILE: 126829_US2_1004.dgn

SECTION 25
T43N, R35W
CITY OF IRON RIVER



CAUTION - CRITICAL UTILITY

HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION - CRITICAL UTILITY

CAUTION - CRITICAL UTILITY

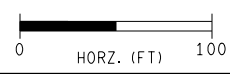
QUANTITIES THIS SHEET

JN 201197		
CAT 0001		
38	Ton	Shoulder, CI II
680	Ton	HMA, 5E3
1	Ea	Protect Corners

CAYUGA ST
US-2
IRON RIVER
CEDAR AVE
LAY AVE
LALLEY RD
HIGH AVE (VACATED)

US-2
CAYUGA ST
ADAMS ST

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

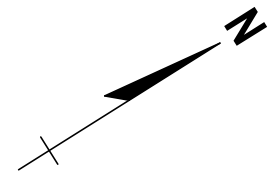


DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A

CONSTRUCTION		DRAWING	SHEET
US-2 STA 1004+00 TO STA 1016+00		US-2 CON 002	SECT 1 45

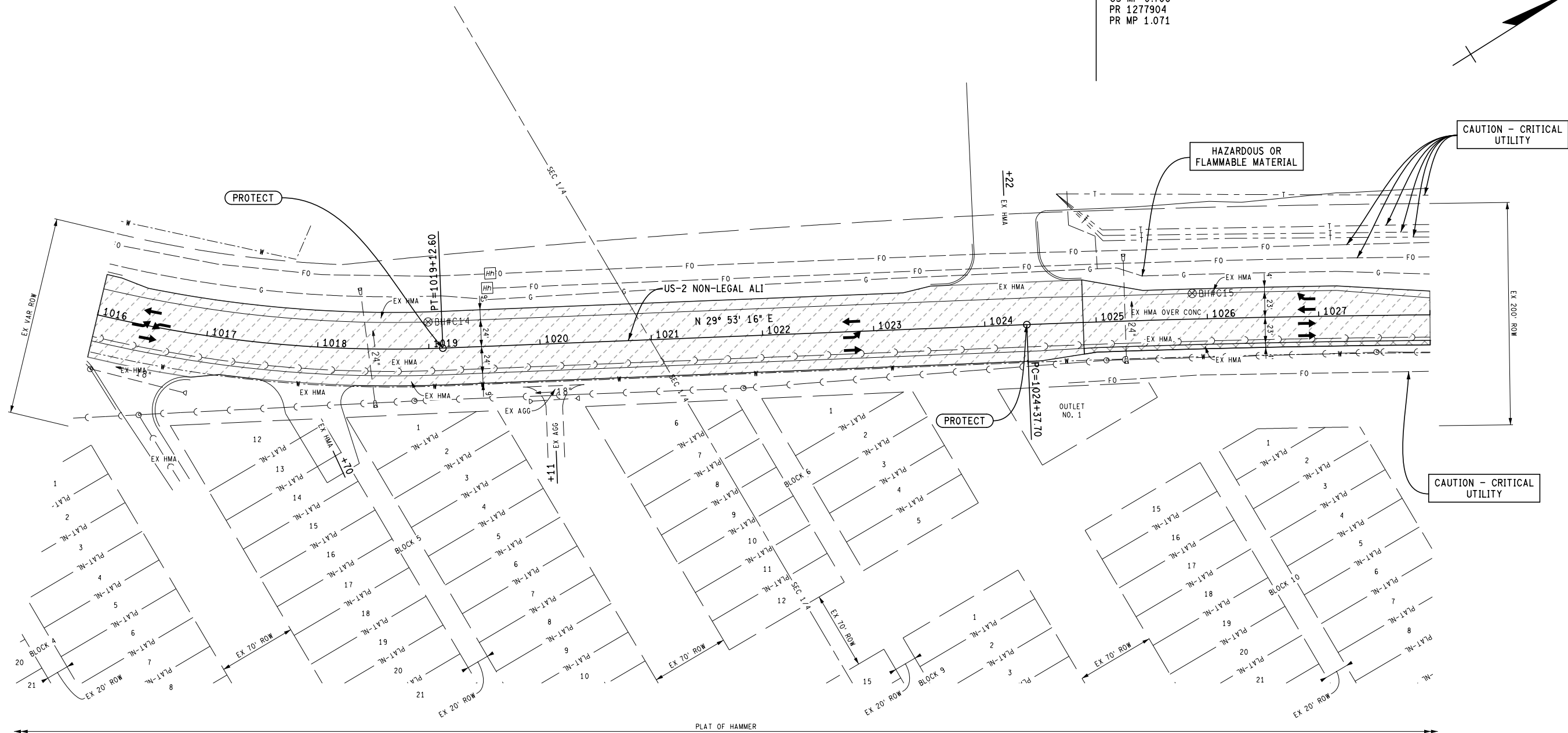
FILE: 126829_US2_1004.dgn

CS 36022
JN 201197A ENDS
CS 36022
JN 126829A BEGINS
STA 1024+88.33
CS MP 0.708
PR 1277904
PR MP 1.071



US-2

US-2



QUANTITIES THIS SHEET

JN 201197	JN 126829	3	Sta	Trenching
CAT 0001	CAT 0001	6673	1740	Syd Cold Milling HMA Surface
		139	Syd	HMA Surface, Rem

CAYUGA ST

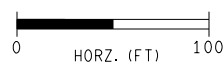
PEARL AVE

HAMMER ST

BATES ST

TERRY ST

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



FILE: 126829_US2_1016.dgn

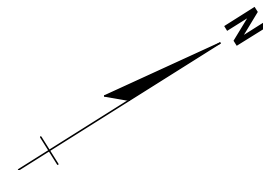
DATE: 08/10/18
DESIGN UNIT: KLEIKAMP
TSC: CRYSTAL FALLS

CS: 36022
JN: 126829A
201197A

REMOVAL
US-2 STA 1016+00 TO STA 1028+00

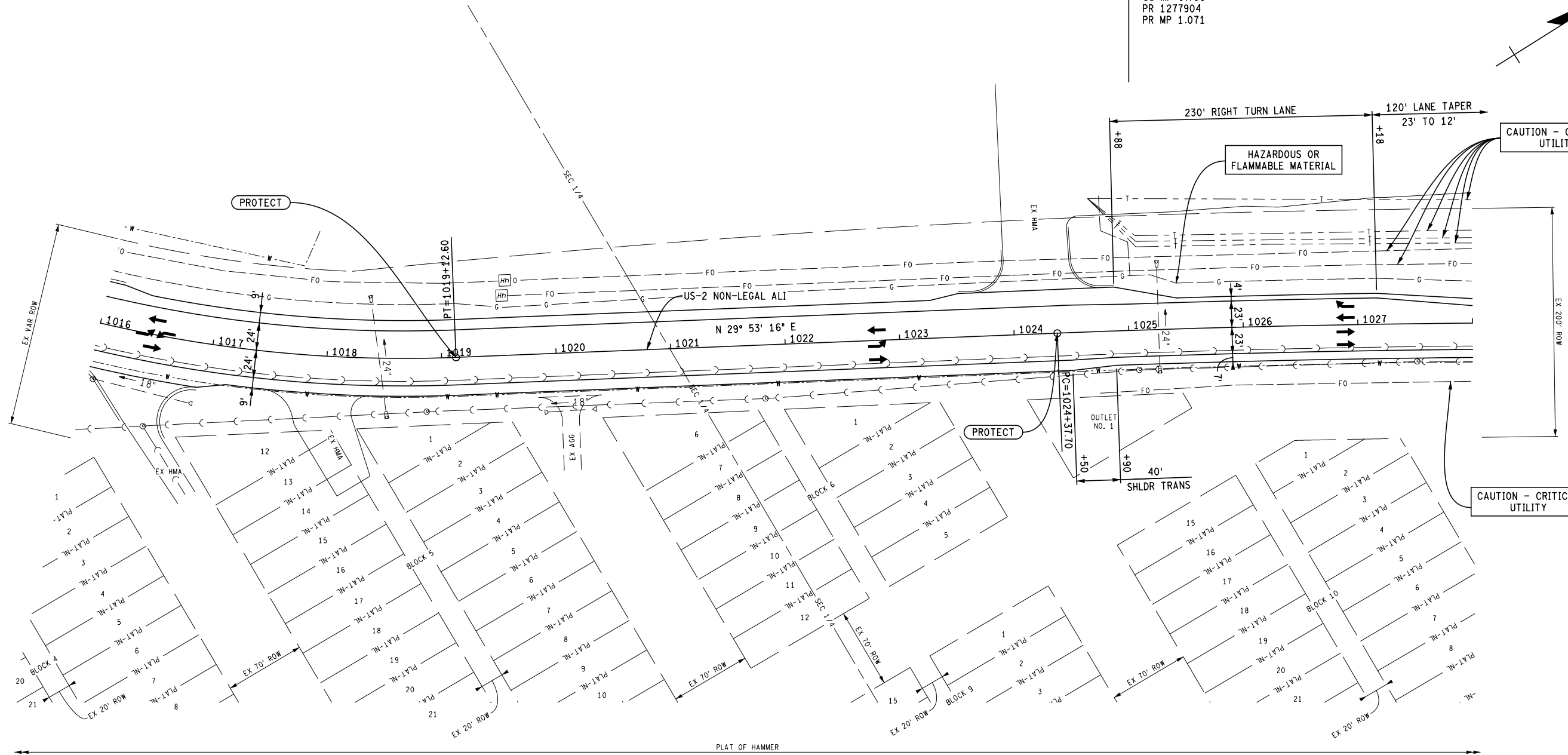
DRAWING SHEET
US-2 REM 003
SECT 1 46

CS 36022
JN 201197A ENDS
CS 36022
JN 126829A BEGINS
STA 1024+88.33
CS MP 0.708
PR 1277904
PR MP 1.071



US-2

US-2



QUANTITIES THIS SHEET

NO.	DESCRIPTION	UNIT	AMOUNT
82	Aggregate Base	Ton	82
32	Shoulder, CI II	Ton	32
192	HMA, 4E3	Ton	192
144	HMA, 5E3	Ton	144
47	HMA, LVSP	Ton	47
2	Protect Corners	Ea	2

CAYUGA ST

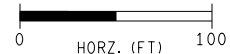
PEARL AVE

HAMMER ST

BATES ST

TERRY ST

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



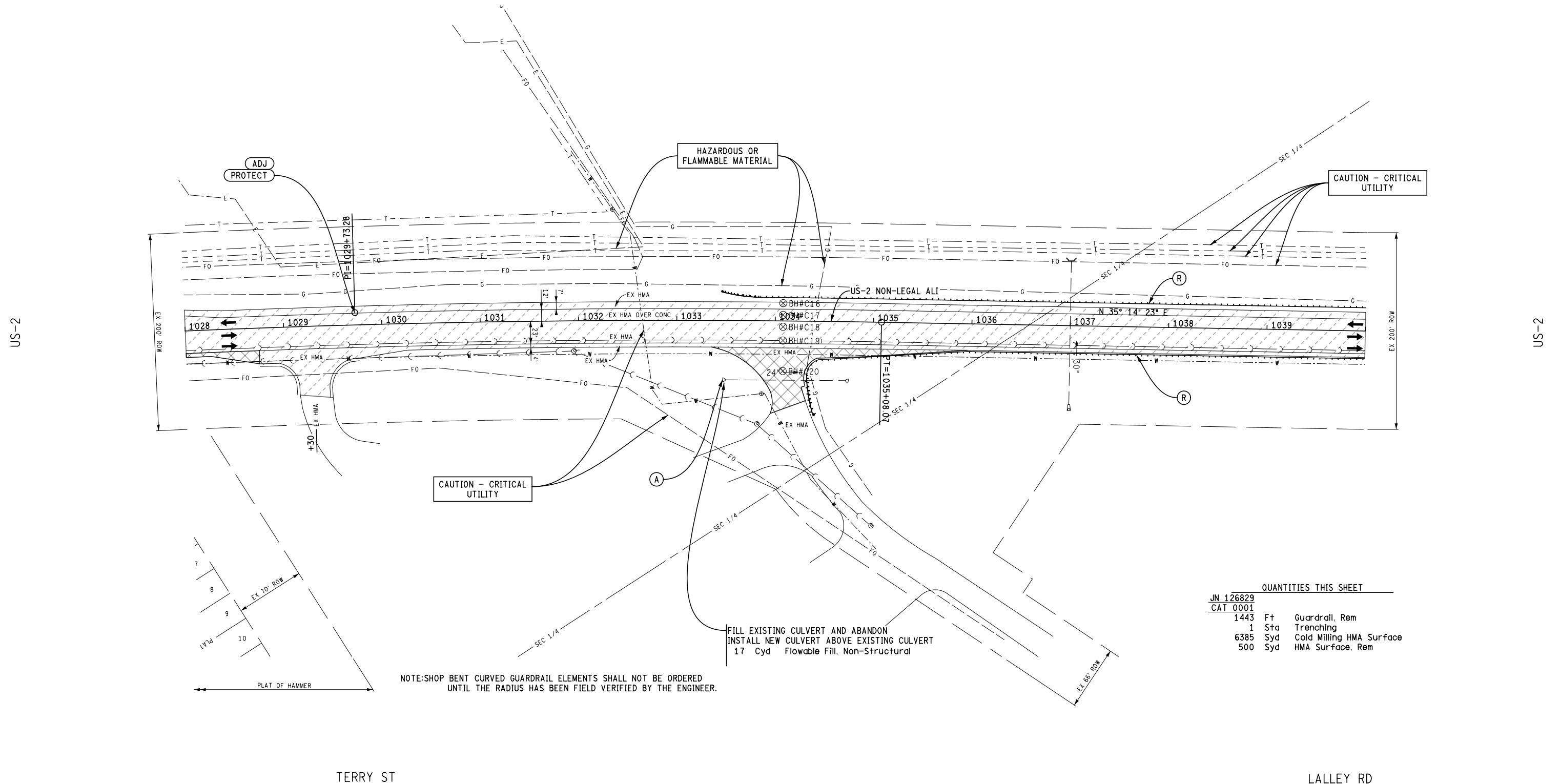
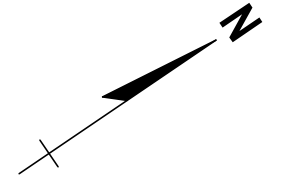
FILE: 126829_US2_1016.dgn

DATE: 08/10/18
DESIGN UNIT: KLEIKAMP
TSC: CRYSTAL FALLS

CS: 36022
JN: 126829A
201197A

CONSTRUCTION
US-2 STA 1016+00 TO STA 1028+00

DRAWING SHEET
US-2 CON 003
SECT 1
47



FILL EXISTING CULVERT AND ABANDON
INSTALL NEW CULVERT ABOVE EXISTING CULVERT
17 Cyd Flowable Fill, Non-Structural

NOTE: SHOP BENT CURVED GUARDRAIL ELEMENTS SHALL NOT BE ORDERED
UNTIL THE RADIUS HAS BEEN FIELD VERIFIED BY THE ENGINEER.

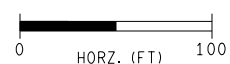
QUANTITIES THIS SHEET

JN 126829		
CAT 0001		
1443	Ft	Guardrail, Rem
1	Sta	Trenching
6385	Syd	Cold Milling HMA Surface
500	Syd	HMA Surface, Rem

TERRY ST

LALLEY RD

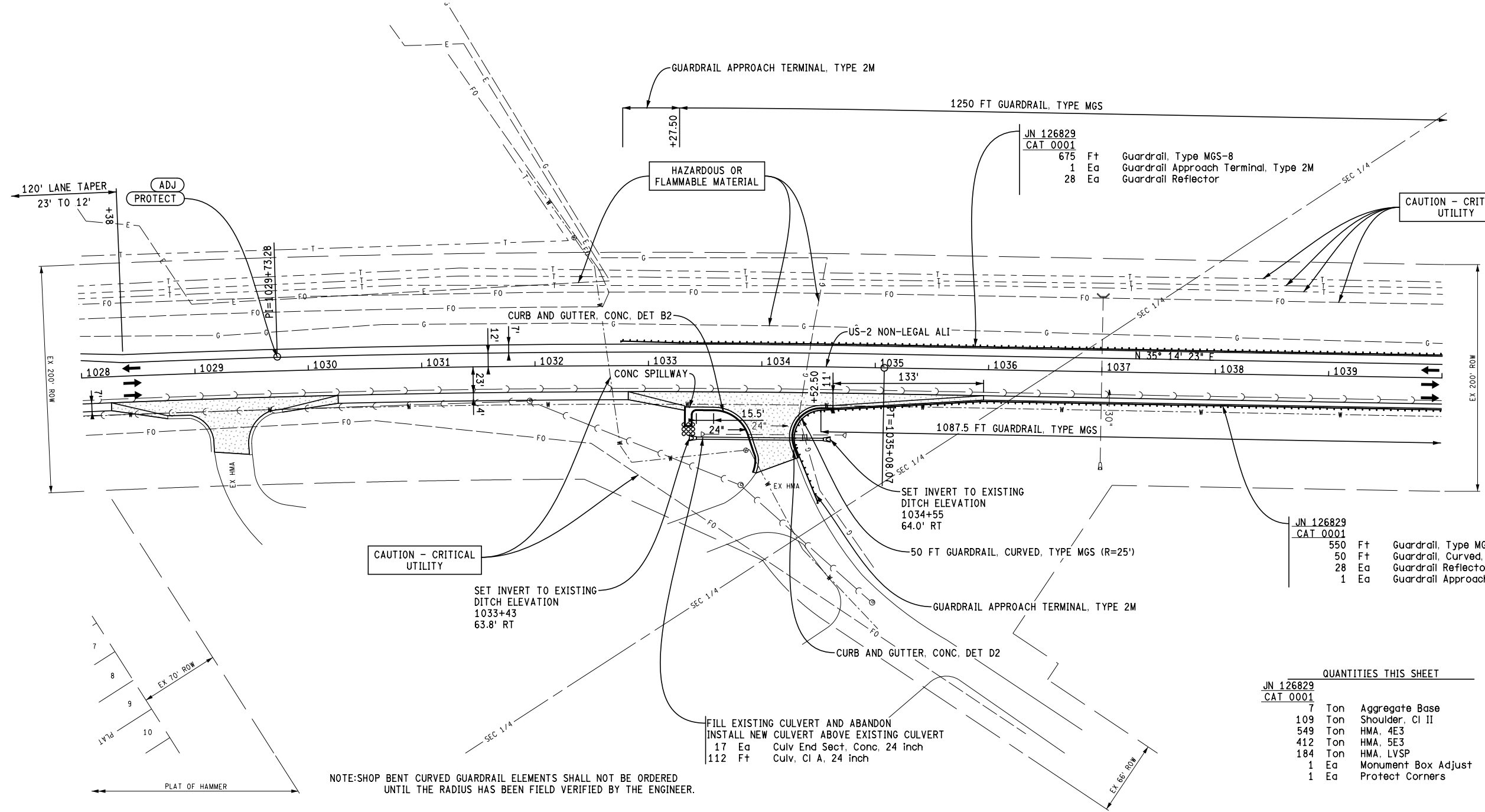
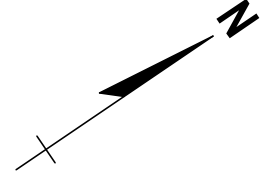
FINAL ROW PLAN REVISIONS		(SUBMITTAL DATE:)	
NO.	DATE	AUTH	DESCRIPTION



DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A

REMOVAL		DRAWING	SHEET
US-2 STA 1028+00 TO STA 1040+00		US-2	SECT 1
		REM	48
		004	

SECTION 25
T43N, R35W
CITY OF IRON RIVER



JN 126829
CAT 0001

675	Ft	Guardrail, Type MGS-8
1	Ea	Guardrail Approach Terminal, Type 2M
28	Ea	Guardrail Reflector

JN 126829
CAT 0001

550	Ft	Guardrail, Type MGS-8
50	Ft	Guardrail, Curved, Type MGS-8
28	Ea	Guardrail Reflector
1	Ea	Guardrail Approach Terminal, Type 2M

JN 126829
CAT 0001

QUANTITIES THIS SHEET

7	Ton	Aggregate Base
109	Ton	Shoulder, CI II
549	Ton	HMA, 4E3
412	Ton	HMA, 5E3
184	Ton	HMA, LVSP
1	Ea	Monument Box Adjust
1	Ea	Protect Corners

FILL EXISTING CULVERT AND ABANDON
INSTALL NEW CULVERT ABOVE EXISTING CULVERT
17 Ea Culv End Sect, Conc, 24 inch
112 Ft Culv, CI A, 24 inch

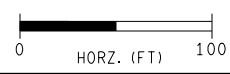
NOTE: SHOP BENT CURVED GUARDRAIL ELEMENTS SHALL NOT BE ORDERED
UNTIL THE RADIUS HAS BEEN FIELD VERIFIED BY THE ENGINEER.

DRIVEWAY TABLE					Approach, CI I	HMA Approach	Curb and Gutter, Conc, Det B2	Curb and Gutter, Conc, Det D2	Shoulder Gutter, Conc, Det 2	Spillway, Conc	Riprap, Plain
ALIGNMENT	STATION	BACK OFFSET FROM C	PROP DRIVE WIDTH	APPROACH ROAD NAME	Ton	Ton	Ft	Ft	Ea	Ft	Syd
US-2	1029+30 RT	71.4	30.8	TERRY ST	--	83	--	--	--	--	--
US-2	1034+13 RT	87.9	37.2	LALLEY RD	206	118	90	70	10	10	7
JN 126829A CAT 0001 TOTAL					206	201	90	70	10	10	7

TERRY ST

LALLEY RD

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



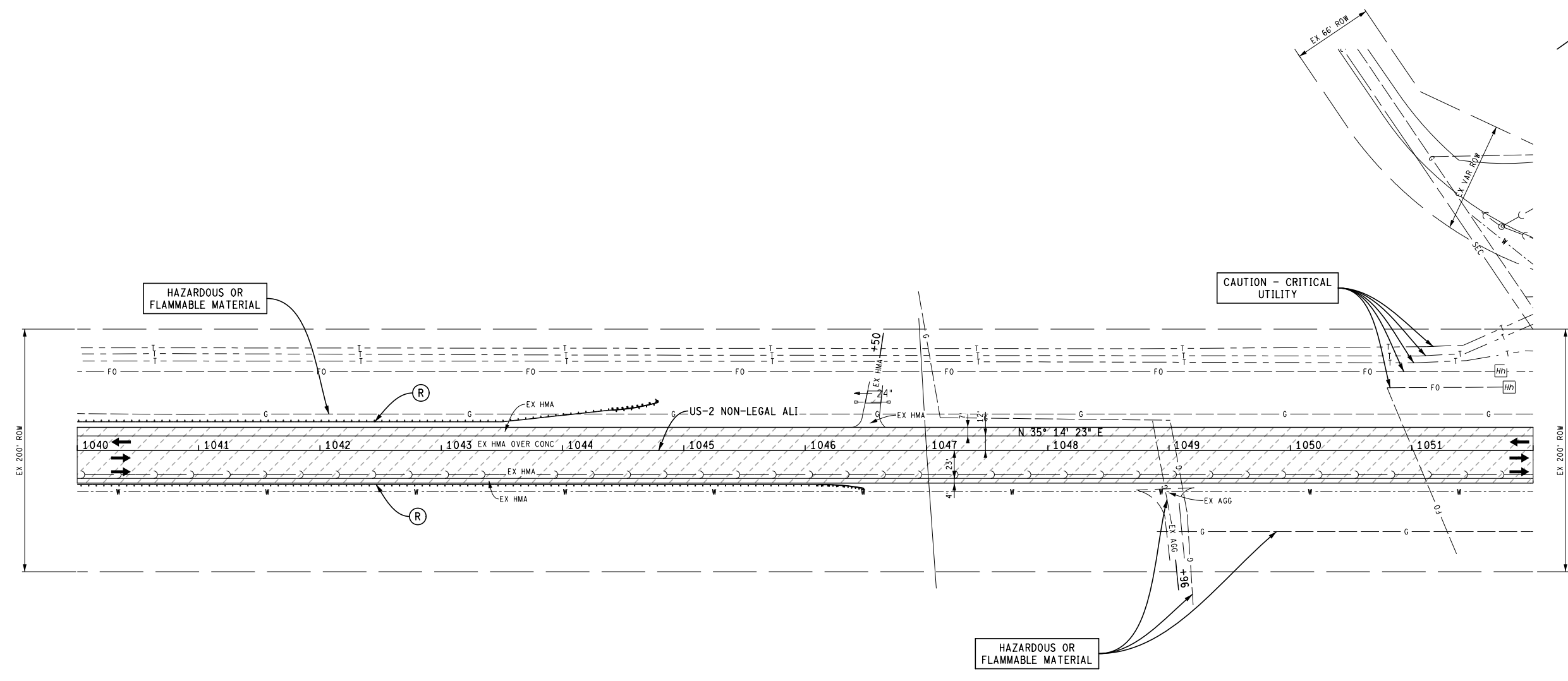
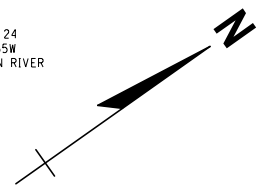
DATE: 08/10/18	CS: 36022	CONSTRUCTION	DRAWING	SHEET
DESIGN UNIT: KLEIKAMP	JN: 126829A			
TSC: CRYSTAL FALLS	201197A	US-2 STA 1028+00 TO STA 1040+00	US-2 CON 004	SECT 1 49

FILE: 126829_US2_1028.dgn

HUNTER RD

SECTION 25
T43N, R35W
CITY OF IRON RIVER

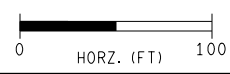
SECTION 24
T43N, R35W
CITY OF IRON RIVER



QUANTITIES THIS SHEET

JN 126829		
CAT 0001		
1298	Ft	Guardrail, Rem
6148	Syd	Cold Milling HMA Surface

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



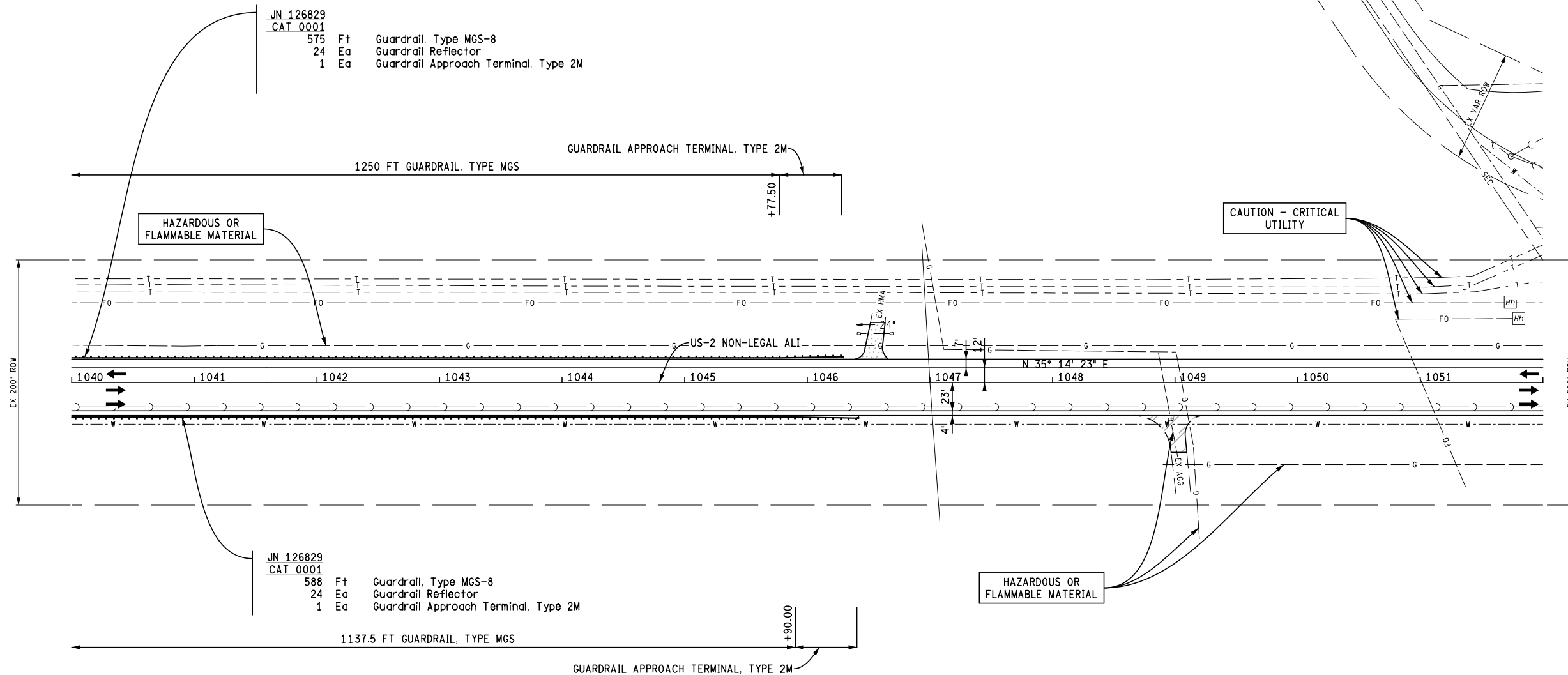
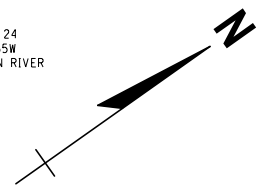
DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A
FILE: 126829_US2_1040.dgn	

REMOVAL	DRAWING	SHEET
US-2 STA 1040+00 TO STA 1052+00	US-2 REM 005	SECT 1 50

HUNTER RD

SECTION 25
T43N, R35W
CITY OF IRON RIVER

SECTION 24
T43N, R35W
CITY OF IRON RIVER



JN 126829
CAT 0001
575 Ft Guardrail, Type MGS-8
24 Ea Guardrail Reflector
1 Ea Guardrail Approach Terminal, Type 2M

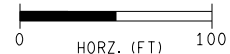
JN 126829
CAT 0001
588 Ft Guardrail, Type MGS-8
24 Ea Guardrail Reflector
1 Ea Guardrail Approach Terminal, Type 2M

QUANTITIES THIS SHEET

JN 126829	CAT 0001	120	Ton	Shoulder, CI II
		572	Ton	HMA, 4E3
		429	Ton	HMA, 5E3
		180	Ton	HMA, LVSP

DRIVEWAY TABLE					Approach, CI II	HMA Approach
ALIGNMENT	STATION	BACK OFFSET FROM €	PROP DRIVE WIDTH	APPROACH ROAD NAME	Ton	Ton
US-2	1046+50 LT	49.0	12.0	--	--	7
US-2	1048+96 RT	57.0	12.9	--	24	--
JN 126829A CAT 0001 TOTAL					24	7

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

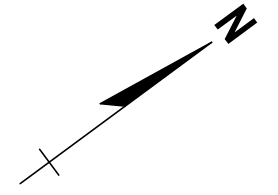


DATE: 08/10/18	CS: 36022	CONSTRUCTION	DRAWING	SHEET
DESIGN UNIT: KLEIKAMP	JN: 126829A	US-2 STA 1040+00 TO STA 1052+00	US-2 CON 005	SECT 1
TSC: CRYSTAL FALLS	201197A			51

FILE: 126829_US2_1040.dgn

WATER TANK RD

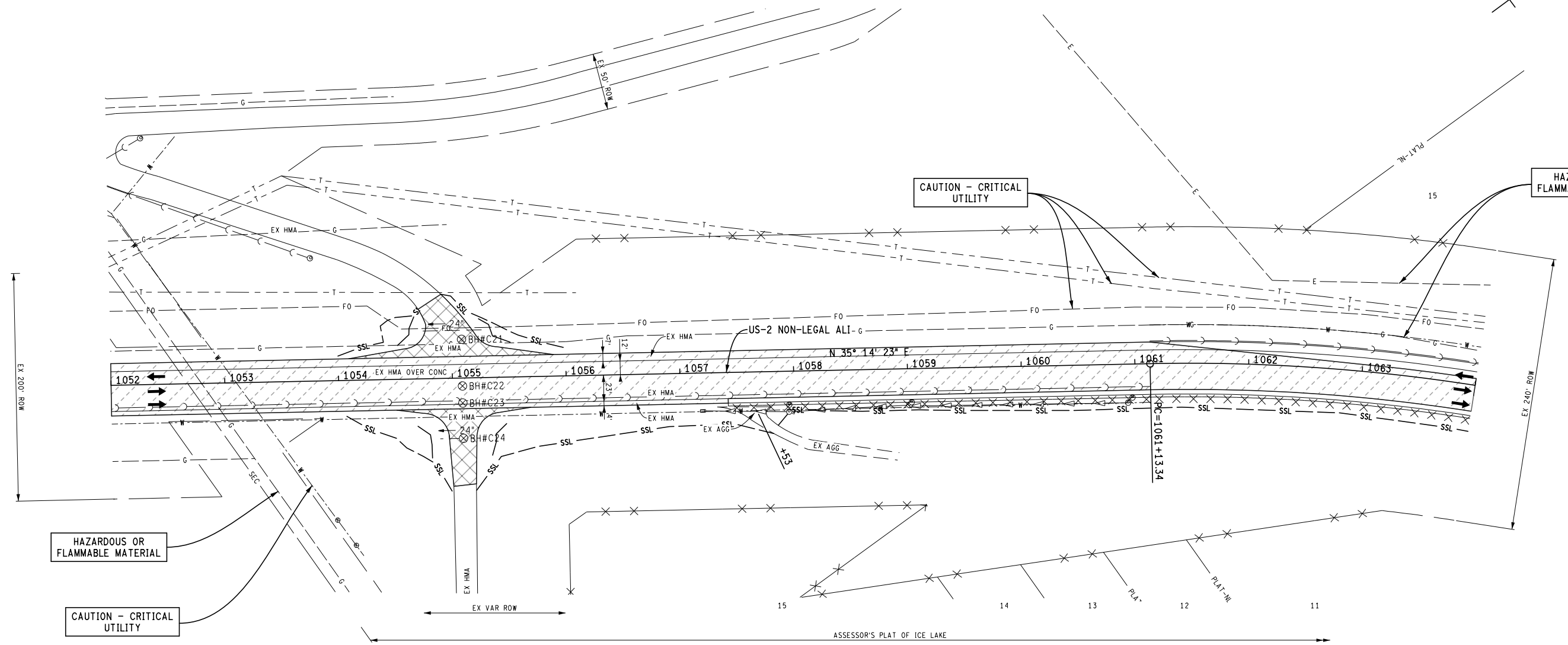
SECTION 24
T43N, R35W
CITY OF IRON RIVER



HUNTER RD

US-2

US-2



CAUTION - CRITICAL UTILITY

HAZARDOUS OR FLAMMABLE MATERIAL

HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION - CRITICAL UTILITY

ASSESSOR'S PLAT OF ICE LAKE

SECTION 24
T43N, R35W
CITY OF IRON RIVER

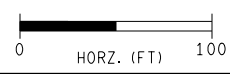
SECTION 25
T43N, R35W
CITY OF IRON RIVER

QUANTITIES THIS SHEET

JN 126829		
CAT 0001		
653	Ft	Curb and Gutter, Rem
49	Cyd	Excavation, Earth
5521	Syd	Cold Milling HMA Surface
814	Syd	HMA Surface, Rem

HUNTER RD

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

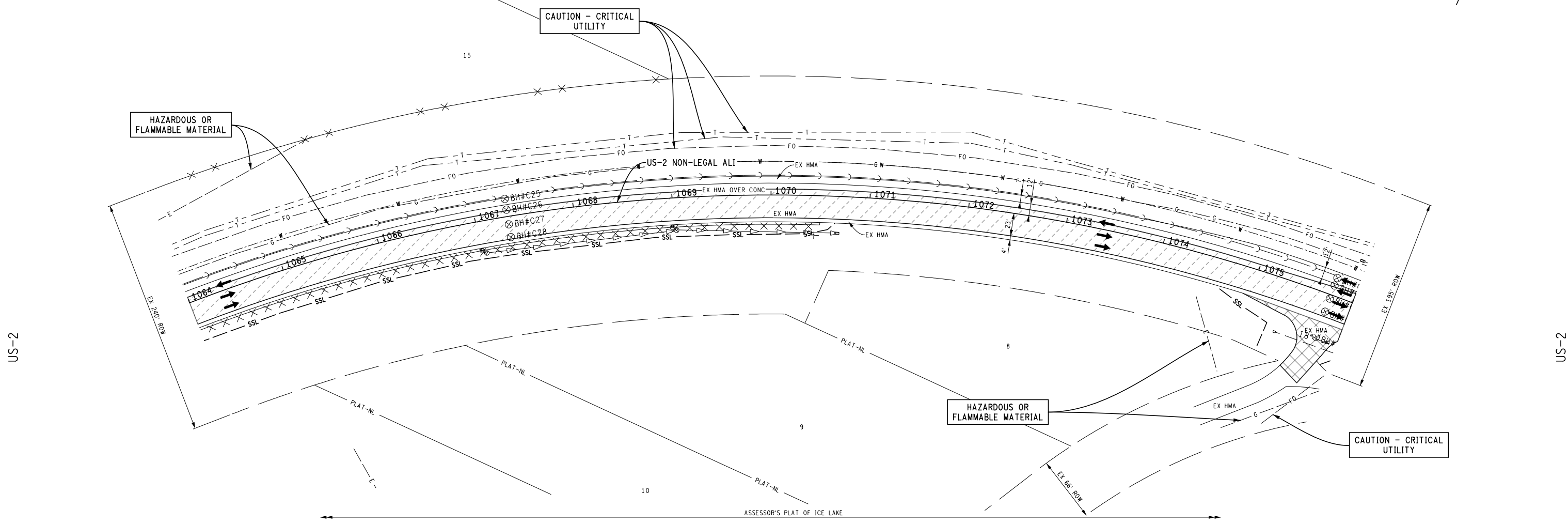


DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A
FILE: 126829_US2_1052.dgn	

REMOVAL		DRAWING	SHEET
US-2 STA 1052+00 TO STA 1064+00		US-2	SECT 1
		REM	52
		006	

SECTION 24
T43N, R35W
CITY OF IRON RIVER

PI=1069+92.44

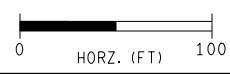


QUANTITIES THIS SHEET

JN 126829		
CAT 0001		
639	Ft	Curb and Gutter, Rem
16	Sta	Trenching
3864	Syd	Cold Milling HMA Surface
798	Syd	HMA Surface, Rem

LALLEY RD

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

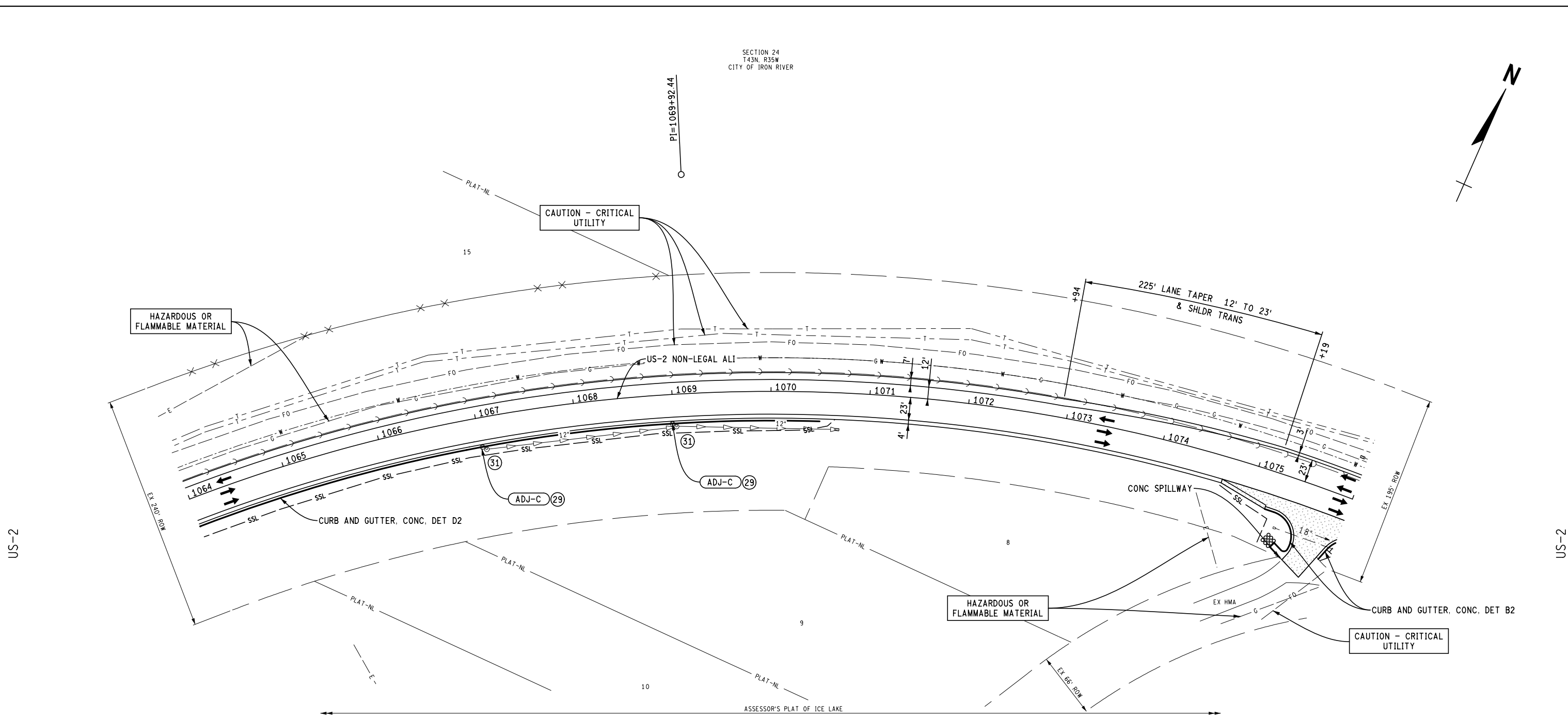


DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A

REMOVAL	DRAWING	SHEET
US-2 STA 1064+00 TO STA 1076+00	US-2	SECT 1
	REM	54
	007	

SECTION 24
T43N, R35W
CITY OF IRON RIVER

PI=1069+92.44



DRIVEWAY TABLE					Approach, CI I	HMA Approach	Curb and Gutter, Conc, Det B2	Shoulder Gutter, Conc, Det 2	Spillway, Conc	Riprap, Plain
ALIGNMENT	STATION	BACK OFFSET FROM €	PROP DRIVE WIDTH	APPROACH ROAD NAME						
US-2	1075+62 RT	89.2	24.5	LALLEY RD	173	99	113	10	10	7
JN 126829A CAT 0001 TOTAL					173	99	113	10	10	7

QUANTITIES THIS SHEET

NO.	UNIT	DESCRIPTION
2	Ea	Erosion Control, Inlet Protection, Fabric Drop
2	Ea	Erosion Control, Inlet Protection, Sediment Trap
83	Ton	Shoulder, CI II
2	Ea	Dr Structure Cover, Adj, Case 1
2	Ea	Dr Structure Cover, Type C
590	Ton	HMA, 4E3
546	Ton	HMA, 5E3
165	Ton	HMA, LVSP
639	Ft	Curb and Gutter, Conc, Det D2

LALLEY RD

ABANDONED RR

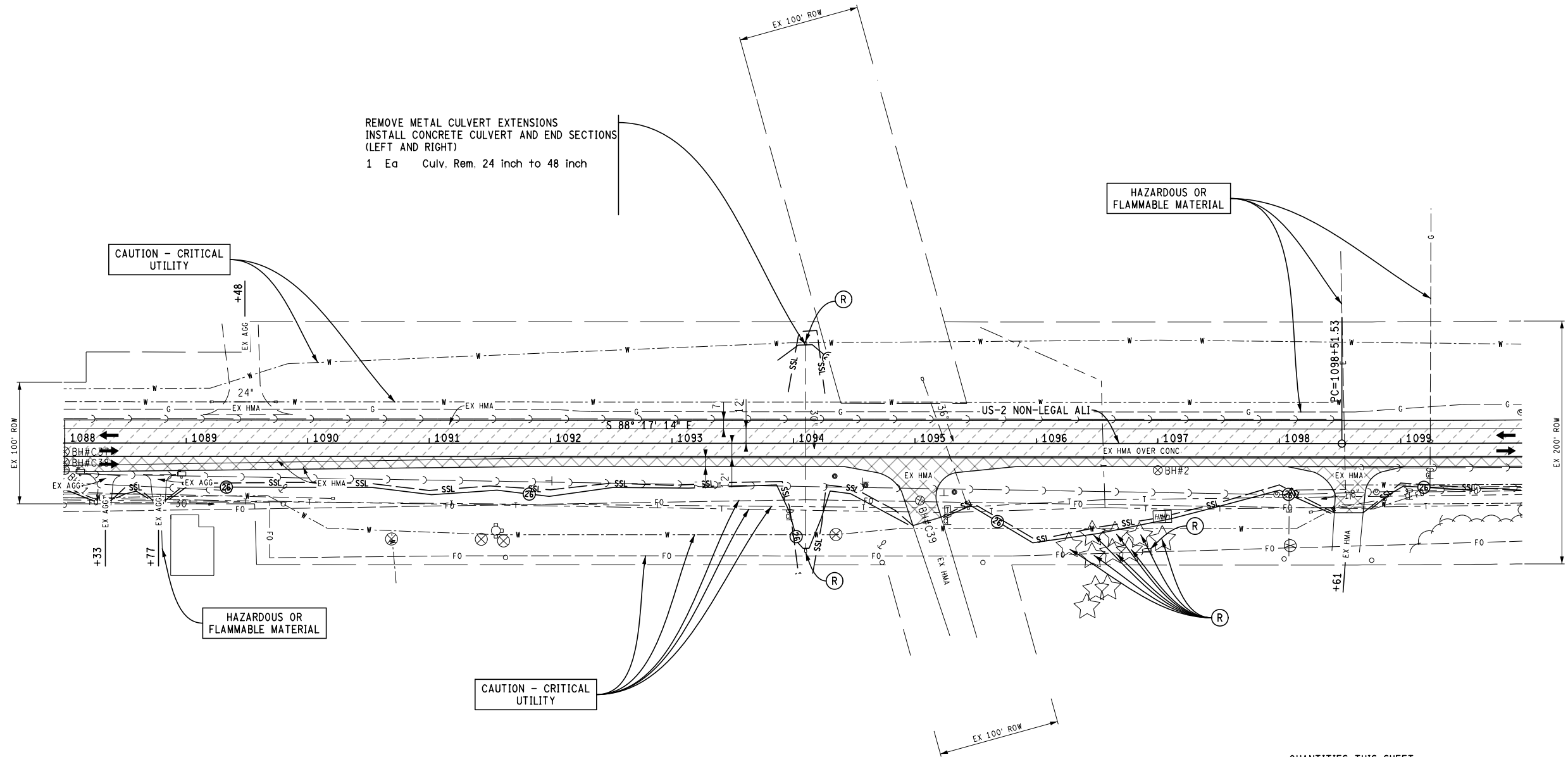
SECTION 19
T43N, R34W
BATES TWP



REMOVE METAL CULVERT EXTENSIONS
INSTALL CONCRETE CULVERT AND END SECTIONS
(LEFT AND RIGHT)
1 Ea Culv, Rem, 24 inch to 48 inch

HAZARDOUS OR
FLAMMABLE MATERIAL

CAUTION - CRITICAL
UTILITY



US-2

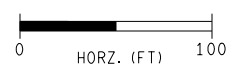
US-2

QUANTITIES THIS SHEET

JN 126829		
CAT 0001		
1753	Cyd	Excavation, Earth
4000	Syd	Cold Milling HMA Surface
1520	Syd	HMA Surface, Rem
8	Ea	Tree, Rem, 6 inch to 18 inch
1	Ea	Stump, Rem, 6 inch to 18 inch

ABANDONED RR
(ANDERSON RD)

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



DATE: 08/10/18	CS: 36022	REMOVAL	DRAWING	SHEET
DESIGN UNIT: KLEIKAMP	JN: 126829A	US-2 STA 1088+00 TO STA 1100+00	US-2	SECT 1
TSC: CRYSTAL FALLS	201197A		REM	58
			009	

FILE: 126829_US2_1088.dgn

ABANDONED RR

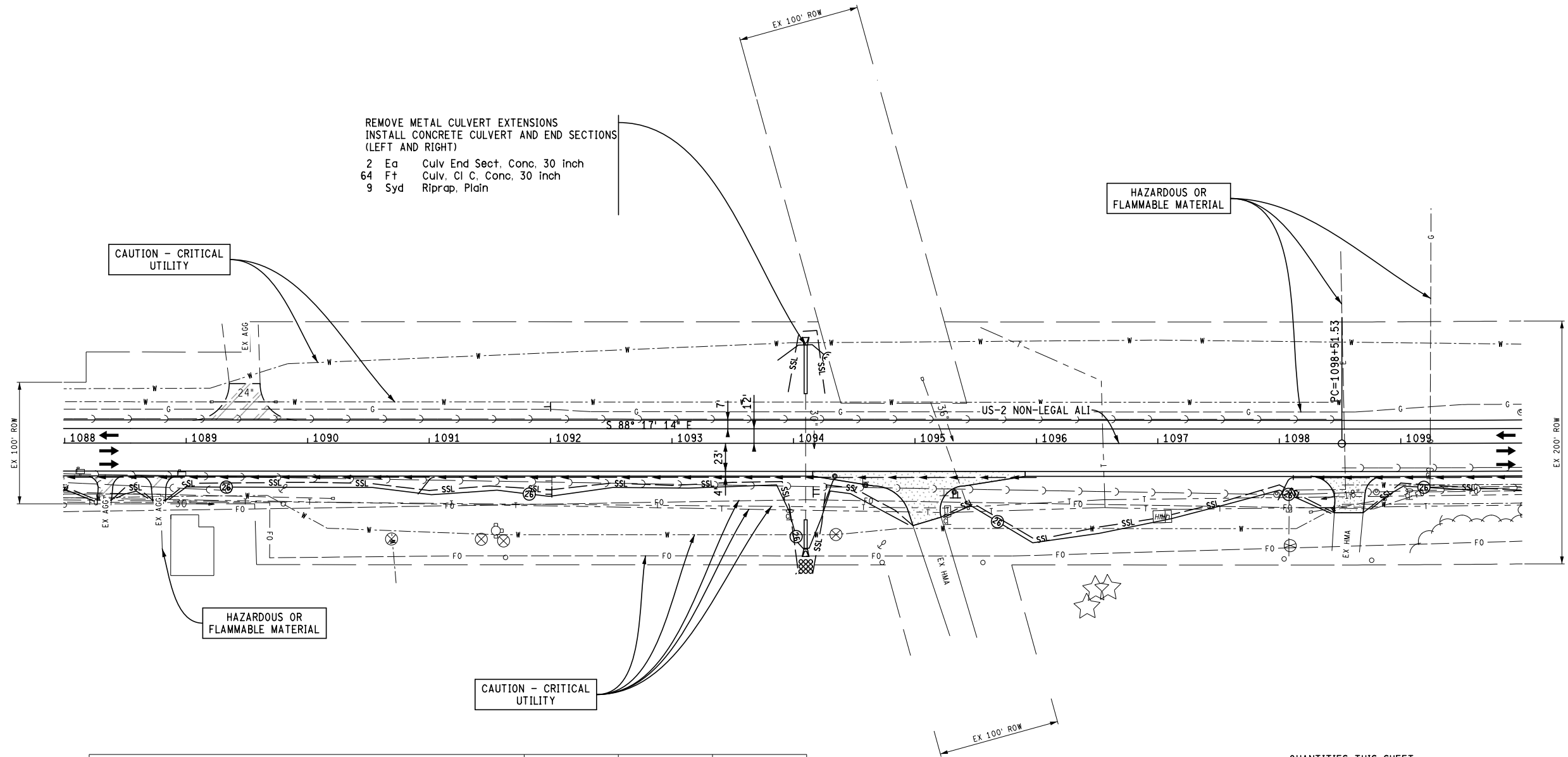
SECTION 19
T43N, R34W
BATES TWP



REMOVE METAL CULVERT EXTENSIONS
INSTALL CONCRETE CULVERT AND END SECTIONS
(LEFT AND RIGHT)
2 Ea Culv End Sect, Conc, 30 inch
64 Ft Culv, CI C, Conc, 30 inch
9 Syd Riprap, Plain

CAUTION - CRITICAL
UTILITY

HAZARDOUS OR
FLAMMABLE MATERIAL

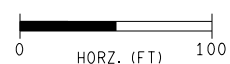


DRIVEWAY TABLE					Approach, CI I	Approach, CI II	HMA Approach
ALIGNMENT	STATION	BACK OFFSET FROM €	PROP DRIVE WIDTH	APPROACH ROAD NAME	Ton	Ton	Ton
US-2	1088+33 RT	47.0	11.5	--	--	12	--
US-2	1088+77 RT	47.0	10.5	--	--	11	--
US-2	1089+48 LT	49.0	25.4	--	--	46	--
US-2	1095+10 RT	64.2	24.2	ANDERSON RD	107	--	61
US-2	1098+61 RT	57.0	23.9	--	--	--	14
JN 126829A CAT 0001 TOTAL					107	69	75

QUANTITIES THIS SHEET

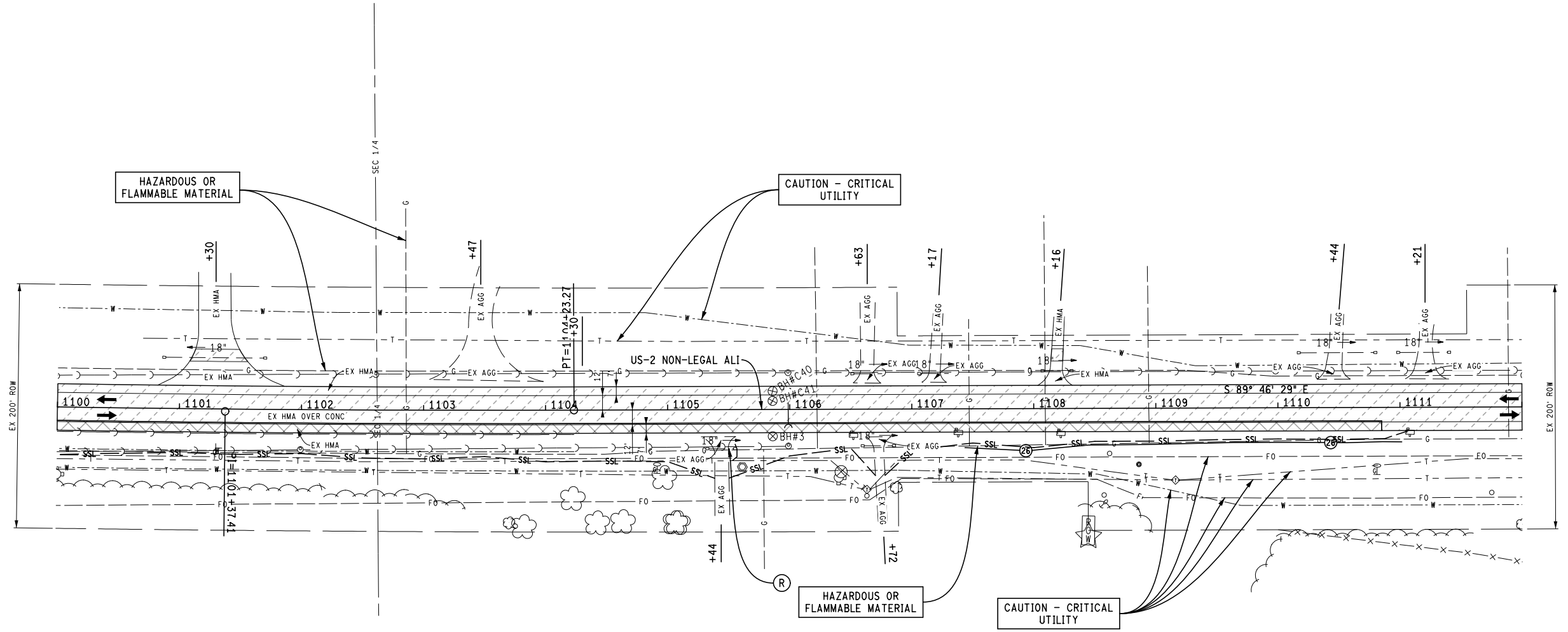
JN 126829	1467	Cyd	Embankment, CIP
CAT 0001	1219	Ft	Erosion Control, Silt Fence
	1718	Cyd	Subbase, CIP
	739	Ton	Aggregate Base
	116	Ton	Shoulder, CI II
	3	Ea	Dr Marker Post
	940	Ft	Underdrain, Subbase, 6 inch
	70	Ft	Underdrain Outlet, 6 inch
	3	Ea	Underdrain, Outlet Ending, 6 inch
	340	Ton	HMA, 3E3
	564	Ton	HMA, 4E3
	423	Ton	HMA, 5E3
	180	Ton	HMA, LVSP

ABANDONED RR
(ANDERSON RD)



FILE: 126829_US2_1088.dgn

SECTION 19
T43N, R34W
BATES TWP



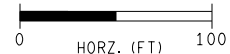
US-2

US-2

QUANTITIES THIS SHEET

JN 126829		
CAT 0001		
1	Ea	Culv. Rem. Less than 24 inch
1439	Cyd	Excavation, Earth
4159	Syd	Cold Milling HMA Surface
965	Syd	HMA Surface, Rem

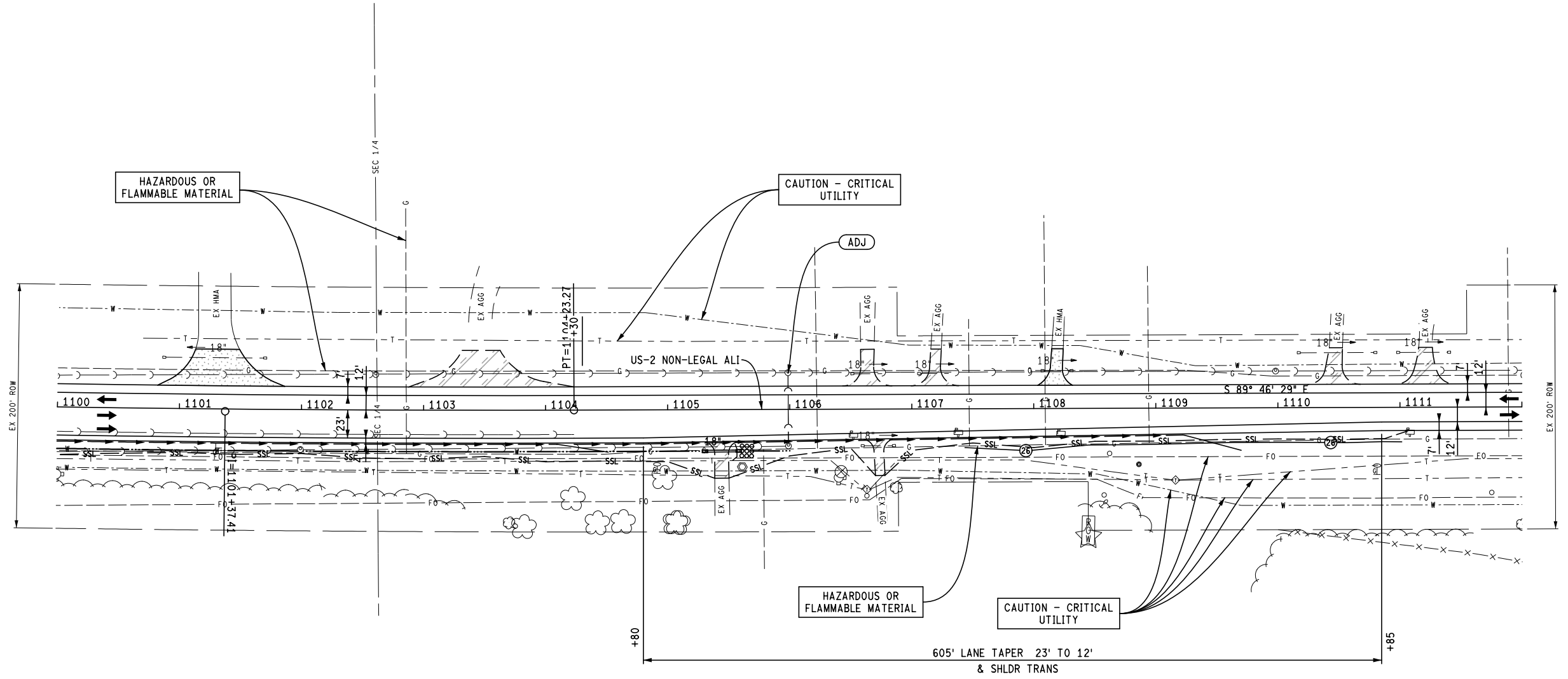
FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A

REMOVAL		DRAWING	SHEET
US-2 STA 1100+00 TO STA 1112+00		US-2 REM 010	SECT 1 60

FILE: 126829_US2_1100.dgn



DRIVEWAY TABLE					Excavation, Earth	Approach, CI II	Culv, CI F, 18 inch	Culv, Slip End Sect, 1 on 4, 18 inch, Longit	Culvert Cleanout	HMA Approach	Riprap, Plain
ALIGNMENT	STATION	BACK OFFSET FROM €	PROP DRIVE WIDTH	APPROACH ROAD NAME							
		FT	FT		Cyd	Ton	Ft	Ea	Ft	Ton	Syd
US-2	1101+30 LT	49.0	36.0	--	2	--	--	--	80	30	--
US-2	1103+47 LT	49.0	31.1	--	--	76	--	--	--	--	--
US-2	1105+44 RT	56.2	11.6	--	--	16	24	2	--	--	5
US-2	1106+63 LT	49.0	11.1	--	2	17	--	--	23	--	--
US-2	1106+72 RT	54.4	7.8	--	2	12	--	--	23	--	--
US-2	1107+17 LT	49.0	8.7	--	2	15	--	--	23	--	--
US-2	1108+16 LT	49.0	9.4	--	2	--	--	--	21	7	--
US-2	1110+44 LT	49.0	10.7	--	--	19	--	--	--	--	--
US-2	1111+21 LT	49.0	11.3	--	--	23	--	--	--	--	--
JN 126829A CAT 0001 TOTAL					10	178	24	2	170	37	5

QUANTITIES THIS SHEET

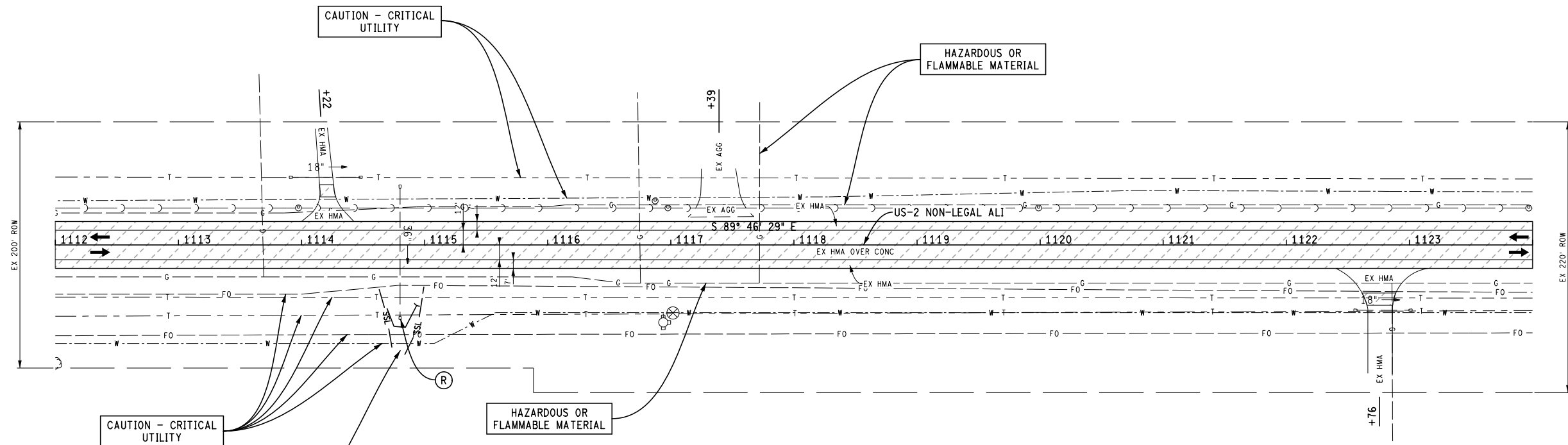
JN 126829 CAT 0001		
1327	Cyd	Embankment, CIP
374	Ft	Erosion Control, Silt Fence
1444	Cyd	Subbase, CIP
602	Ton	Aggregate Base
115	Ton	Shoulder, CI II
2	Ea	Dr Marker Post
910	Ft	Underdrain, Subbase, 6 inch
94	Ft	Underdrain Outlet, 6 inch
2	Ea	Underdrain, Outlet Ending, 6 inch
275	Ton	HMA, 3E3
532	Ton	HMA, 4E3
399	Ton	HMA, 5E3
180	Ton	HMA, LVSP
1	Ea	Dr Structure Cover, Adj, Case 2





US-2

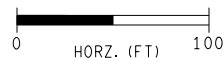
US-2



REMOVE METAL CULVERT EXTENSION (RT)
INSTALL CONCRETE CULVERT AND END SECTION
1 Ea Culv. Rem. 24 inch to 48 inch

QUANTITIES THIS SHEET
JN 126829
CAT 0001
5106 Syd Cold Milling HMA Surface

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



FILE: 126829_US2_1112.dgn

DATE: 08/10/18
DESIGN UNIT: KLEIKAMP
TSC: CRYSTAL FALLS

CS: 36022
JN: 126829A
201197A

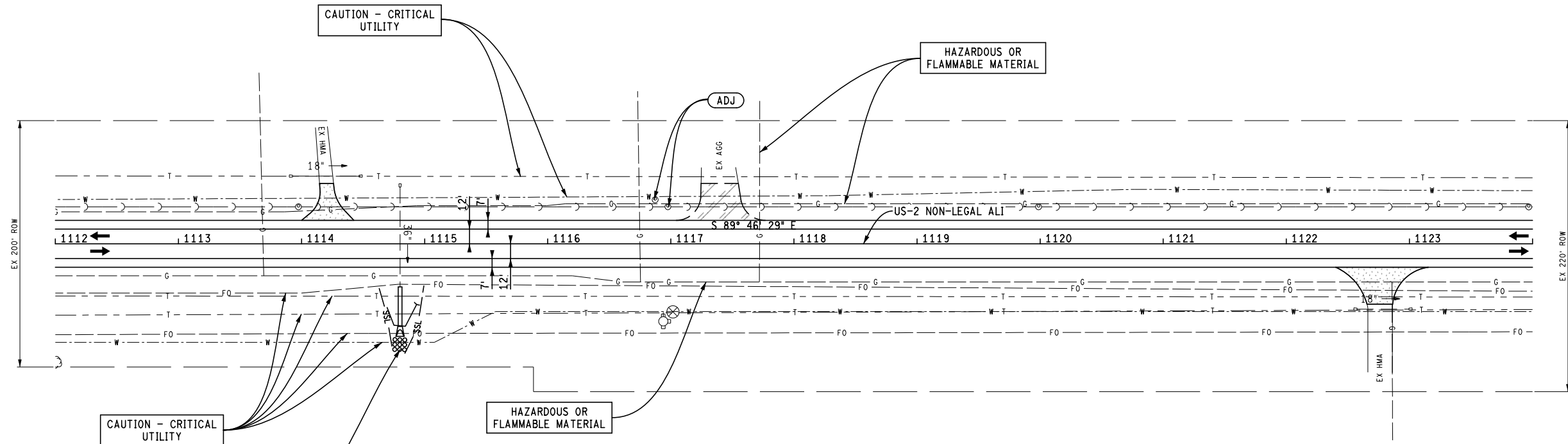
REMOVAL
US-2 STA 1112+00 TO STA 1124+00

DRAWING	SHEET
US-2 REM 011	SECT 1 62



US-2

US-2



- REMOVE METAL CULVERT EXTENSION (RT)
INSTALL CONCRETE CULVERT AND END SECTION
- 1 Ea Culv End Sect, Conc, 36 inch
 - 32 Ft Culv, Cl A, Conc, 36 inch
 - 9 Syd Riprap, Plain

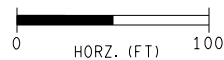
QUANTITIES THIS SHEET

JN 126829
CAT 0001

46	Ft	Erosion Control, Silt Fence
116	Ton	Shoulder, Cl II
352	Ton	HMA, 4E3
264	Ton	HMA, 5E3
360	Ton	HMA, LVSP
2	Ea	Dr Structure Cover, Adj, Case 2
2	Ft	Dr Structure, Adj, Add Depth

DRIVEWAY TABLE					Excavation, Earth Cyd	Approach, Cl II Ton	Culvert Cleanout Ft	HMA Approach Ton
ALIGNMENT	STATION	BACK OFFSET FROM € FT	PROP DRIVE WIDTH FT	APPROACH ROAD NAME				
US-2	1114+22 LT	49.0	11.4	--	2	--	54	10
US-2	1117+39 LT	49.0	30.3	--	--	45	--	--
US-2	1122+76 RT	49.0	20.8	--	--	--	--	18
JN 126829A CAT 0001 TOTAL					2	45	54	28

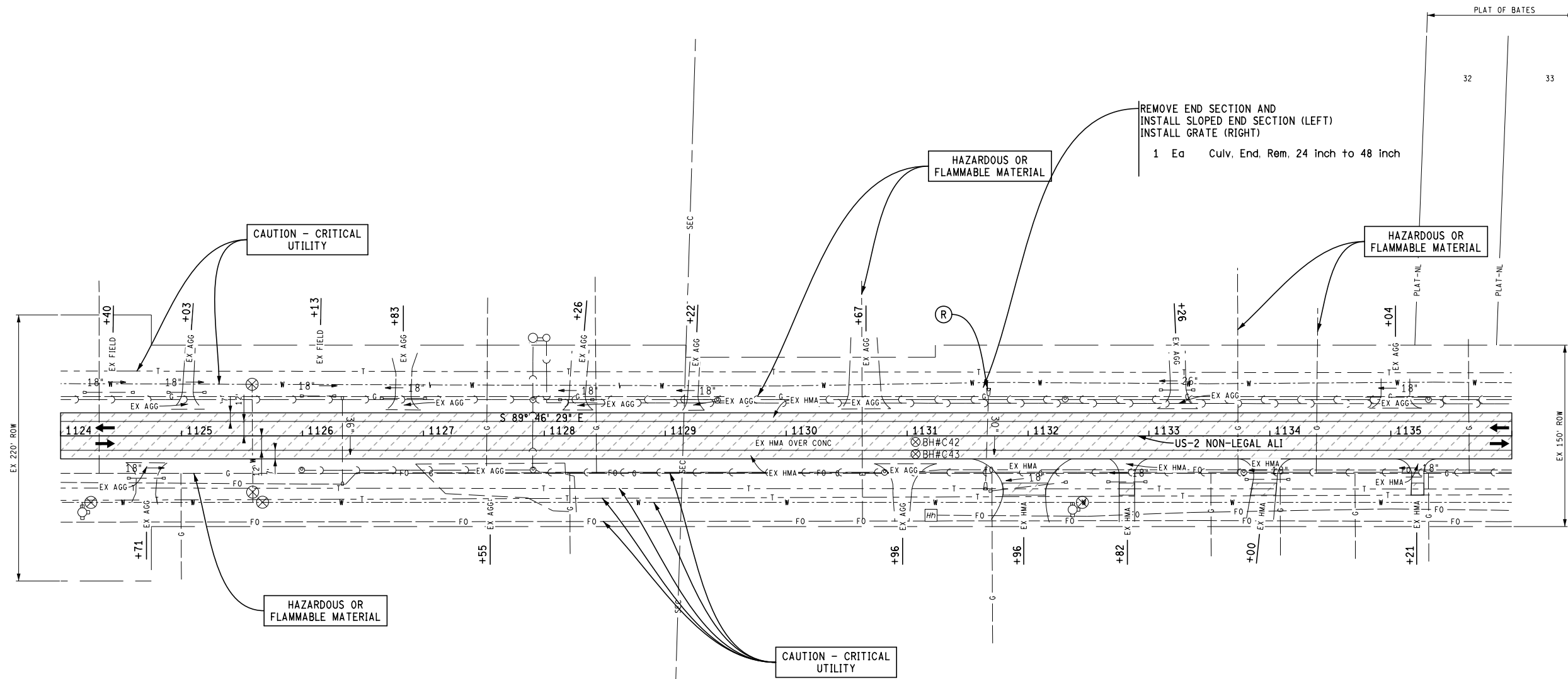
FINAL ROW PLAN REVISIONS		(SUBMITTAL DATE:)	
NO.	DATE	AUTH	DESCRIPTION



DATE: 08/10/18	CS: 36022	CONSTRUCTION	DRAWING	SHEET
DESIGN UNIT: KLEIKAMP	JN: 126829A			
TSC: CRYSTAL FALLS	201197A	US-2 STA 1112+00 TO STA 1124+00	US-2 CON 011	SECT 1 63

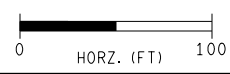
SECTION 19
T43N, R34W
BATES TWP

SECTION 20
T43N, R34W
BATES TWP



QUANTITIES THIS SHEET
 JN 126829
 CAT 0001
 5155 Syd Cold Milling HMA Surface

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



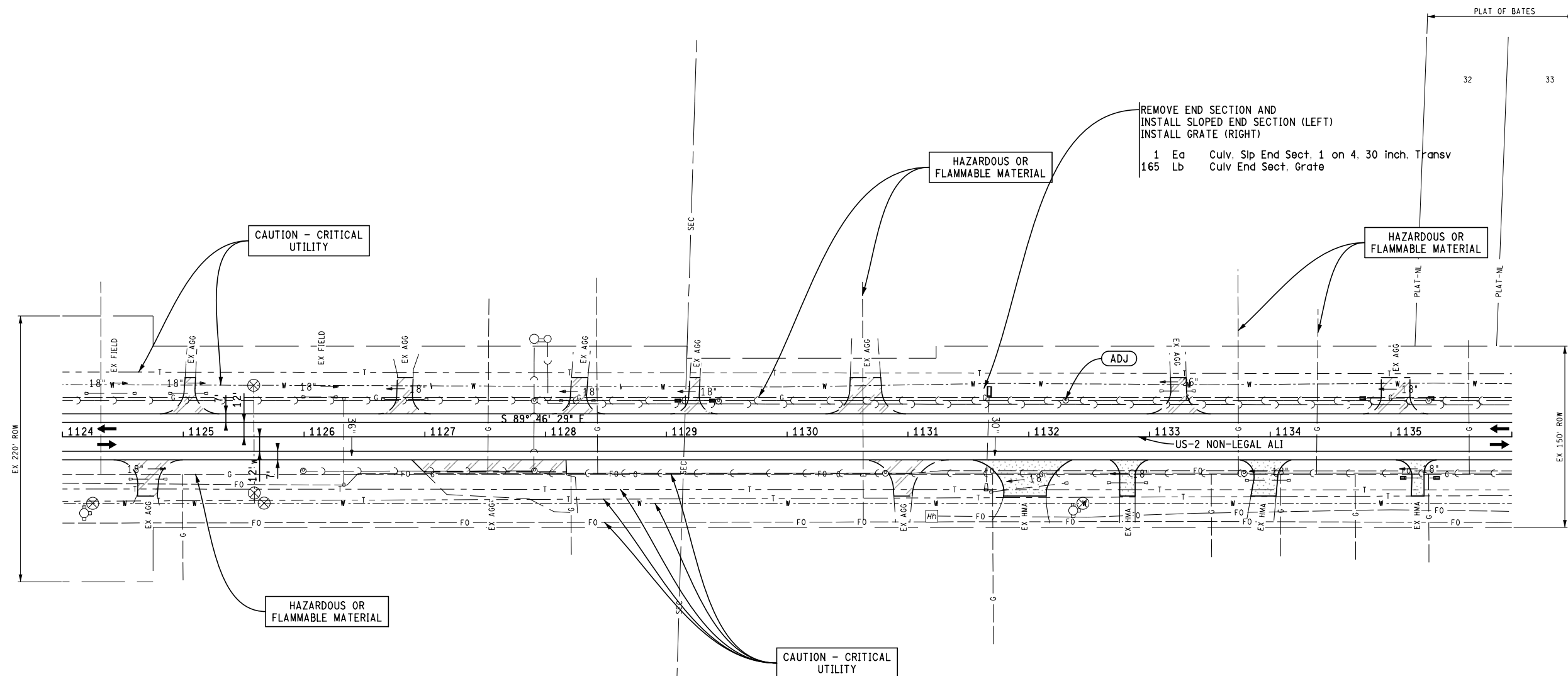
FILE: 126829_US2_1124.dgn	DATE: 08/10/18	CS: 36022
TSC: CRYSTAL FALLS	DESIGN UNIT: KLEIKAMP	JN: 126829A
		201197A

REMOVAL	DRAWING
US-2 STA 1124+00 TO STA 1136+00	US-2
	REM
	012

SHEET
SECT 1
64

SECTION 19
T43N, R34W
BATES TWP

SECTION 20
T43N, R34W
BATES TWP



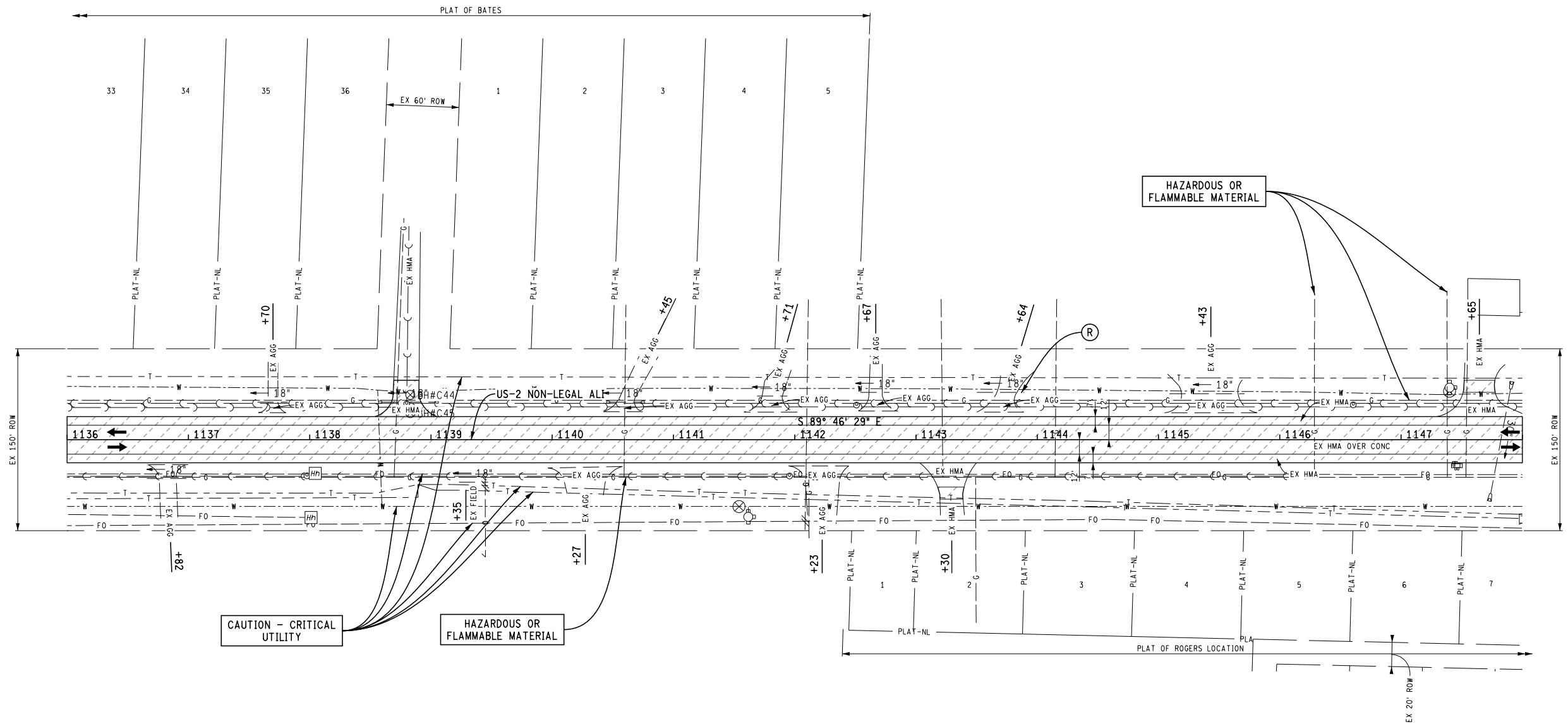
DRIVEWAY TABLE					Excavation, Earth	Approach, CI II	Culv, Slip End Sect, 1 on 4, 18 inch, Longit	Culvert Cleanout	HMA Approach
ALIGNMENT	STATION	BACK OFFSET FROM €	PROP DRIVE WIDTH	APPROACH ROAD NAME					
US-2	1124+40 LT	FIELD	---	---	Cyd	Ton	Ea	Ft	Ton
US-2	1124+71 RT	49.0	16.3	---	2	27	---	26	---
US-2	1125+03 LT	49.0	8.6	---	2	18	---	27	---
US-2	1126+13 LT	FIELD	---	---	2	---	---	24	---
US-2	1126+83 LT	49.0	13.1	---	2	20	---	33	---
US-2	1127+55 RT	29.0	118.0	---	---	49	---	---	---
US-2	1128+26 LT	49.0	13.7	---	2	20	---	24	---
US-2	1129+22 LT	49.0	8.4	---	2	14	2	24	---
US-2	1130+67 LT	49.0	25.3	---	---	38	---	---	---
US-2	1130+96 RT	49.0	15.1	---	---	32	---	---	---
US-2	1131+96 RT	49.0	35.3	---	---	---	---	---	23
US-2	1132+82 RT	49.0	12.9	---	---	---	---	---	8
US-2	1133+26 LT	49.0	13.0	---	---	22	---	---	---
US-2	1134+00 RT	49.0	20.8	---	2	---	---	32	11
US-2	1135+04 LT	49.0	23.8	---	---	32	2	---	---
US-2	1135+21 RT	49.0	10.6	---	---	---	2	---	6
JN 126829A CAT 0001 TOTAL					16	272	6	227	48

QUANTITIES THIS SHEET

JN 126829		
CAT 0001		
26	Ft	Erosion Control, Silt Fence
115	Ton	Shoulder, CI II
352	Ton	HMA, 4E3
264	Ton	HMA, 5E3
360	Ton	HMA, LVSP
1	Ea	Dr Structure Cover, Adj, Case 2
3	Ft	Dr Structure, Adj, Add Depth

KELLSTROM RD

SECTION 20
T43N, R34W
BATES TWP



CAUTION - CRITICAL UTILITY

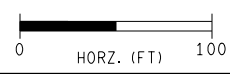
HAZARDOUS OR FLAMMABLE MATERIAL

HAZARDOUS OR FLAMMABLE MATERIAL

QUANTITIES THIS SHEET

JN 126829	CAT 0001	1	Ea	Culv. Rem. Less than 24 inch
		5206	Syd	Cold Milling HMA Surface

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



DATE: 08/10/18
DESIGN UNIT: KLEIKAMP
TSC: CRYSTAL FALLS
FILE: 126829_US2_1136.dgn

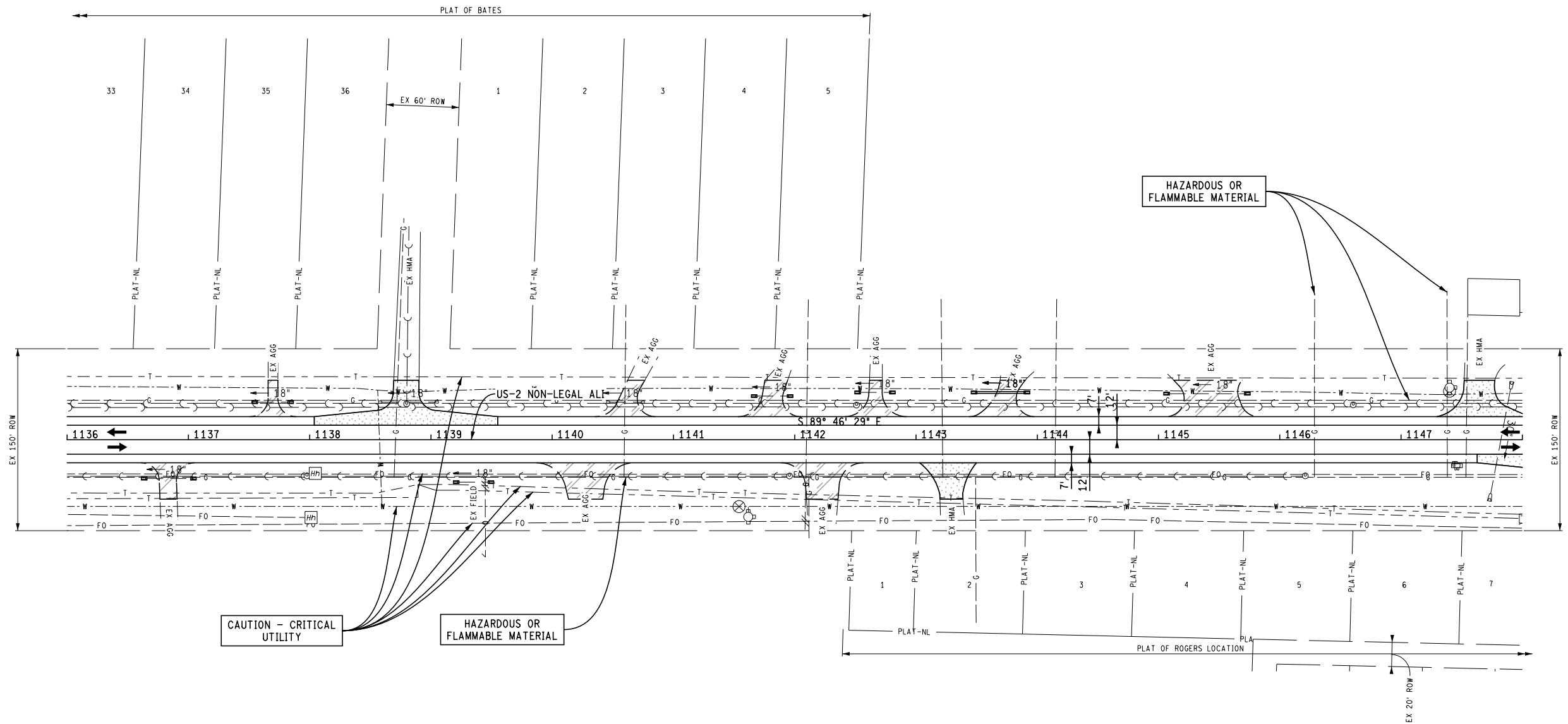
CS: 36022
JN: 126829A
201197A

REMOVAL
US-2 STA 1136+00 TO STA 1148+00

DRAWING SHEET
US-2 REM 013
SECT 1
66

KELLSTROM RD

SECTION 20
T43N, R34W
BATES TWP



CAUTION - CRITICAL UTILITY

HAZARDOUS OR FLAMMABLE MATERIAL

HAZARDOUS OR FLAMMABLE MATERIAL

DRIVEWAY TABLE					Approach, CI I	Approach, CI II	Culv. CI E, 18 inch	Culv. Slip End Sect. 1 on 4, 18 inch, Longit	HMA Approach
ALIGNMENT	STATION	BACK OFFSET FROM C	PROP DRIVE WIDTH	APPROACH ROAD NAME	Ton	Ton	Ft	Ea	Ton
		FT	FT						
US-2	1136+82 RT	49.0	14.1	---	---	21	---	2	---
US-2	1137+70 LT	49.0	8.2	---	---	14	---	2	---
US-2	1138+80 LT	49.0	20.9	KELLSTROM RD	87	---	---	---	50
US-2	1139+35 RT	FIELD	---	---	---	---	---	2	---
US-2	1140+27 RT	49.0	28.3	---	---	47	---	---	---
US-2	1140+45 LT	49.0	14.1	---	---	23	---	---	---
US-2	1141+71 LT	49.0	18.8	---	---	26	---	2	---
US-2	1142+23 RT	49.0	26.0	---	---	40	---	---	---
US-2	1142+67 LT	49.0	10.6	---	---	20	---	2	---
US-2	1143+30 RT	49.0	19.0	---	---	---	---	---	14
US-2	1143+64 LT	49.0	20.7	---	---	28	39	2	---
US-2	1145+43 LT	49.0	56.4	---	---	60	---	2	---
US-2	1147+65 RT	49.0	25.3	---	---	---	---	---	18
JN 126829A CAT 0001 TOTAL					87	279	39	14	82

QUANTITIES THIS SHEET

JN 126829
CAT 0001

115	Ton	Shoulder, CI II
352	Ton	HMA, 4E3
264	Ton	HMA, 5E3
332	Ton	HMA, LVSP



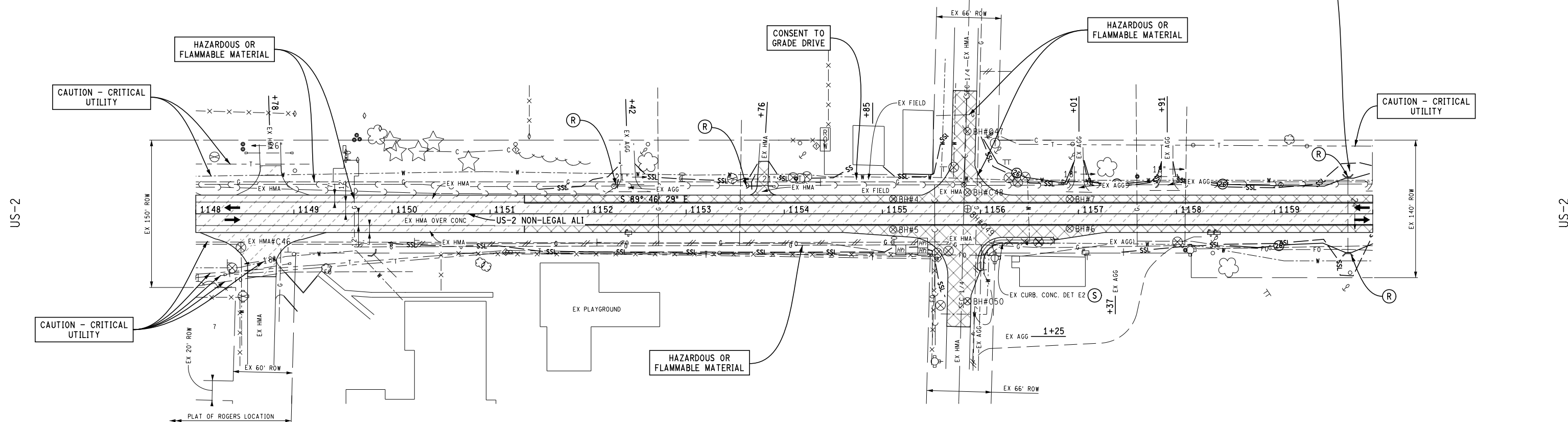
FILE: 126829_US2_1136.dgn

REIMAN RD

SECTION 20
T43N, R34W
BATES TWP



REMOVE HEADWALLS AND INSTALL SLOPED END SECTIONS
(LEFT AND RIGHT)
1 Ea Culv. Rem. 24 inch to 48 inch
3 Cyd Excavation, Earth



QUANTITIES THIS SHEET

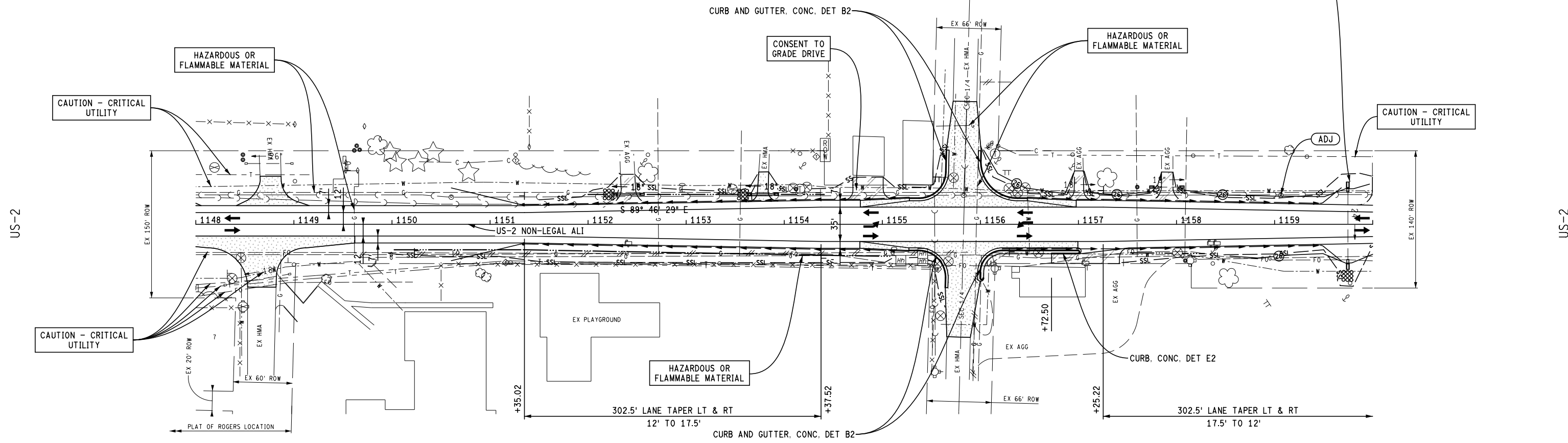
JN 126829		
CAT 0001		
2	Ea	Culv. Rem. Less than 24 inch
105	Ft	Curb and Gutter, Rem
1591	Cyd	Excavation, Earth
3811	Syd	Cold Milling HMA Surface
2389	Syd	HMA Surface, Rem

REIMAN RD

SECTION 20
T43N, R34W
BATES TWP



REMOVE HEADWALLS AND INSTALL SLOPED END SECTIONS
(LEFT AND RIGHT)
8 Ft Culv. CI A, Conc. 24 inch
2 Ea Culv. Slip End Sect. 1 on 4, 24 inch. Transv
9 Syd Riprap, Plain



DRIVEWAY TABLE					Approach, CI I	Approach, CI II	Culv. CI F, 18 inch	Culv. Slip End Sect. 1 on 4, 18 inch, Longit	HMA Approach	Curb, Conc. Det E2	Curb and Gutter, Conc. Det B2	Riprap, Plain
ALIGNMENT	STATION	BACK OFFSET FROM €	PROP DRIVE WIDTH	APPROACH ROAD NAME	Ton	Ton	F+	Ea	Ton	F+	F+	Syd
US-2	1148+67 RT	64.0	29.0	ROGERS AVE	152	--	--	--	87	--	--	--
US-2	1148+78 LT	49.0	21.4	--	--	--	--	17	--	--	--	--
US-2	1152+42 LT	50.9	14.5	--	--	22	24	2	--	--	5	--
US-2	1153+76 LT	53.4	10.1	--	--	--	24	2	--	--	5	--
US-2	1154+85 LT	48.1	30.9	--	--	31	--	--	--	--	--	--
US-2	1155+78 RT	115.0	30.0	BATES-GAASTRA RD	180	--	--	--	103	--	192	--
US-2	1155+84 LT	125.3	30.0	REIMAN RD	204	--	--	--	116	--	155	--
US-2	1157+01 LT	54.5	8.9	--	--	13	--	--	--	--	--	--
US-2	1157+37 RT	39.9	69.3	--	--	31	--	--	27	--	--	--
US-2	1157+91 LT	53.3	11.7	--	--	18	2	--	--	--	--	--
JN 126829A CAT 0001 TOTAL					536	115	48	6	329	27	347	10

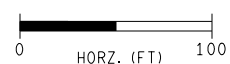
QUANTITIES THIS SHEET

JN 126829
CAT 0001

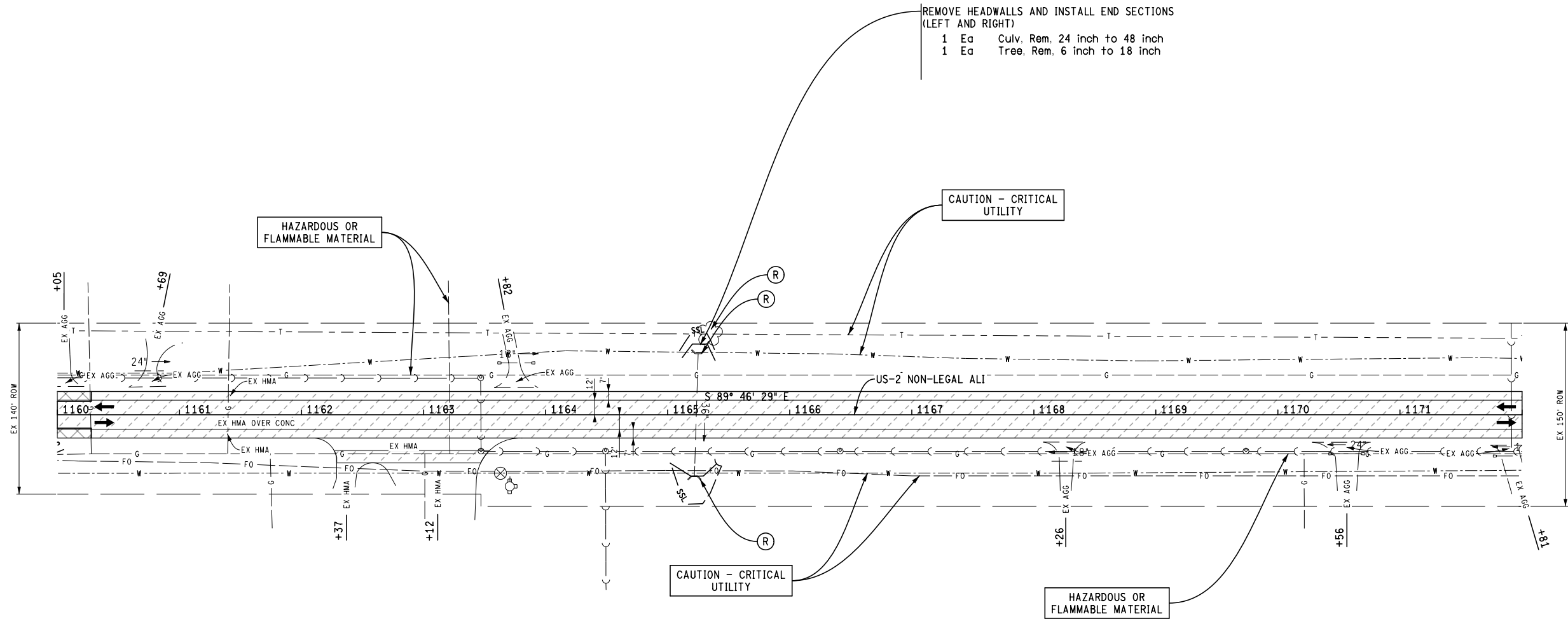
1058	Cyd	Embankment, CIP
612	Ft	Erosion Control, Silt Fence
1484	Cyd	Subbase, CIP
684	Ton	Aggregate Base
97	Ton	Shoulder, CI II
4	Ea	Dr Marker Post
1414	Ft	Underdrain, Subbase, 6 inch
200	Ft	Underdrain Outlet, 6 inch
4	Ea	Underdrain, Outlet Ending, 6 inch
319	Ton	HMA, 3E3
543	Ton	HMA, 4E3
408	Ton	HMA, 5E3
77	Ton	HMA, LVSP
1	Ea	Dr Structure Cover, Adj, Case 2

ROGERS AVE

BATES-GAASTRA RD



SECTION 20
T43N, R34W
BATES TWP



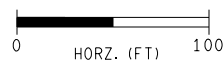
QUANTITIES THIS SHEET

JN 126829		
CAT 0001		
44	Cyd	Excavation, Earth
5153	Syd	Cold Milling HMA Surface
50	Syd	HMA Surface, Rem

US-2

US-2

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



FILE: 126829_US2_1160.dgn

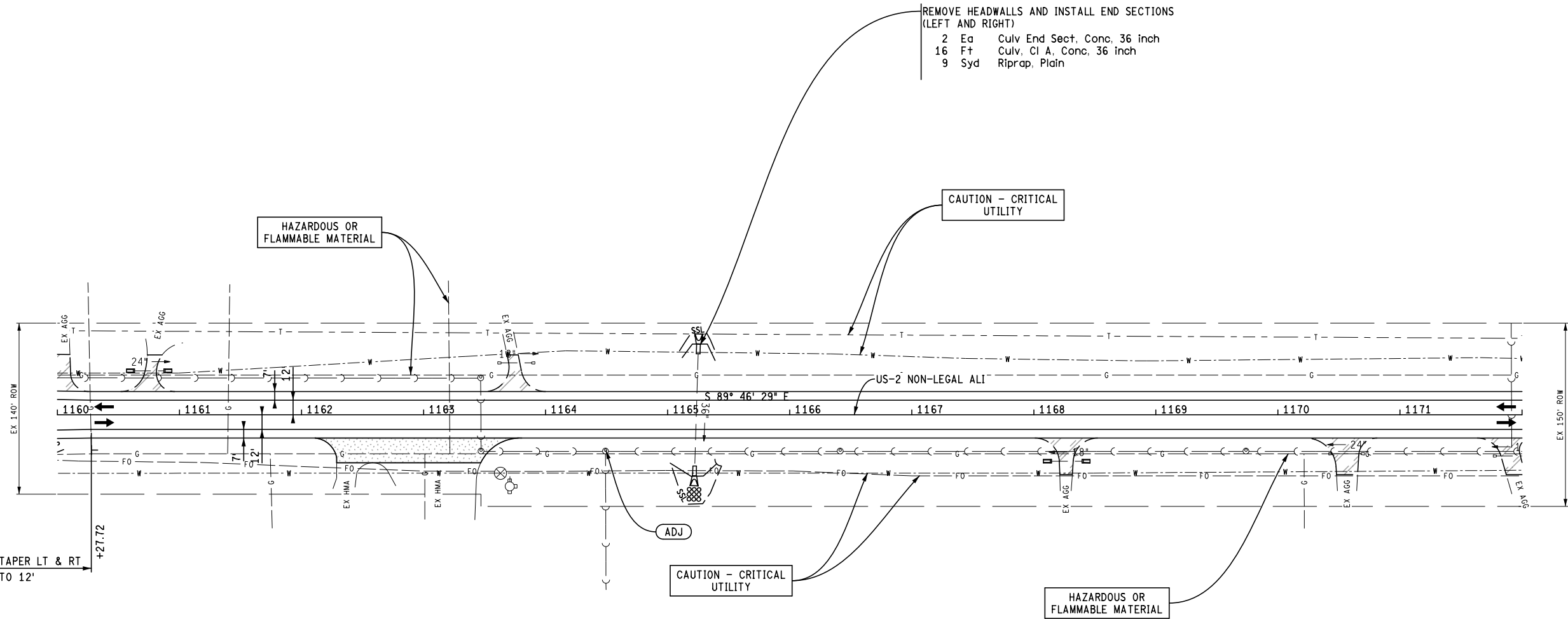
DATE: 08/10/18
DESIGN UNIT: KLEIKAMP
TSC: CRYSTAL FALLS

CS: 36022
JN: 126829A
201197A

REMOVAL
US-2 STA 1160+00 TO STA 1172+00

DRAWING SHEET
US-2 REM 015
SECT 1
70

SECTION 20
T43N, R34W
BATES TWP



DRIVEWAY TABLE					Approach, CI II	Culv, Slip End Sect, 1 on 4, 18 inch, Longit	Culv, Slip End Sect, 1 on 4, 24 inch, Longit	HMA Approach
ALIGNMENT	STATION	BACK OFFSET FROM €	PROP DRIVE WIDTH	APPROACH ROAD NAME				
		FT	FT		Ton	Ea	Ea	Ton
US-2	1160+05 LT	49.0	10.4	--	17	--	--	--
US-2	1160+69 LT	49.0	12.3	--	17	--	2	--
US-2	1162+12 RT	39.3	100.5	--	--	--	--	10
US-2	1162+37 RT	39.3	16.5	--	--	--	--	33
US-2	1163+82 LT	49.0	9.2	--	19	--	--	--
US-2	1168+26 RT	49.0	10.3	--	21	2	--	--
US-2	1170+56 RT	49.0	17.3	--	29	--	--	--
US-2	1171+81 RT	49.0	15.3	--	22	--	--	--
JN 126829A CAT 0001 TOTAL					125	2	2	43

QUANTITIES THIS SHEET

JN 126829 CAT 0001		
35	Cyd	Embankment, CIP
88	Ft	Erosion Control, Silt Fence
42	Cyd	Subbase, CIP
19	Ton	Aggregate Base
114	Ton	Shoulder, CI II
9	Ton	HMA, 3E3
357	Ton	HMA, 4E3
268	Ton	HMA, 5E3
352	Ton	HMA, LVSP
1	Ea	Dr Structure Cover, Adj, Case 2

LARSON RD

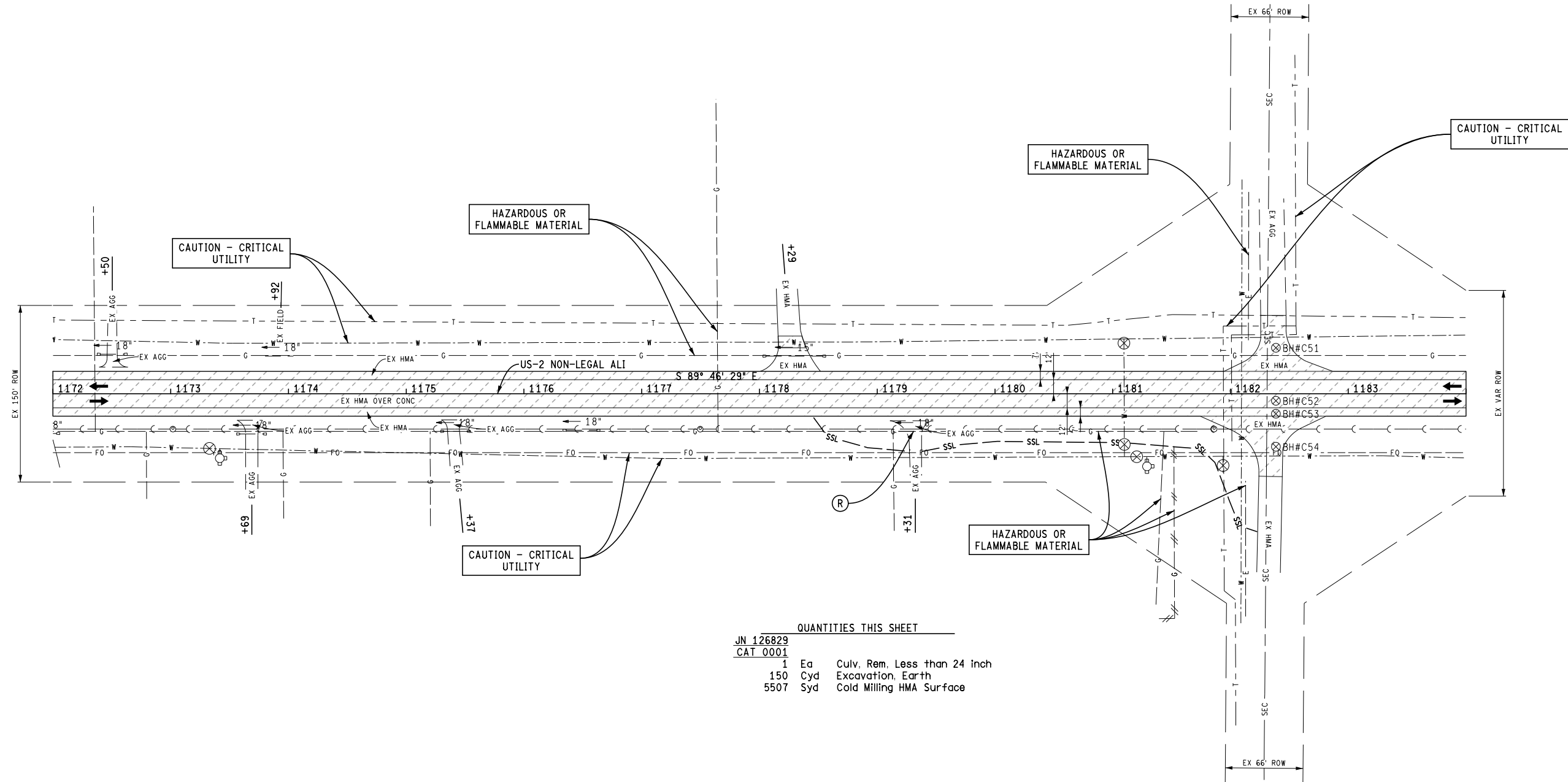
SECTION 20
T43N, R34W
BATES TWP

SECTION 21
T43N, R34W
BATES TWP



US-2

US-2

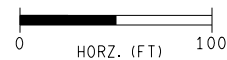


QUANTITIES THIS SHEET

JN 126829		
CAT 0001		
1	Ea	Culv. Rem. Less than 24 inch
150	Cyd	Excavation, Earth
5507	Syd	Cold Milling HMA Surface

PASSAMANI RD

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



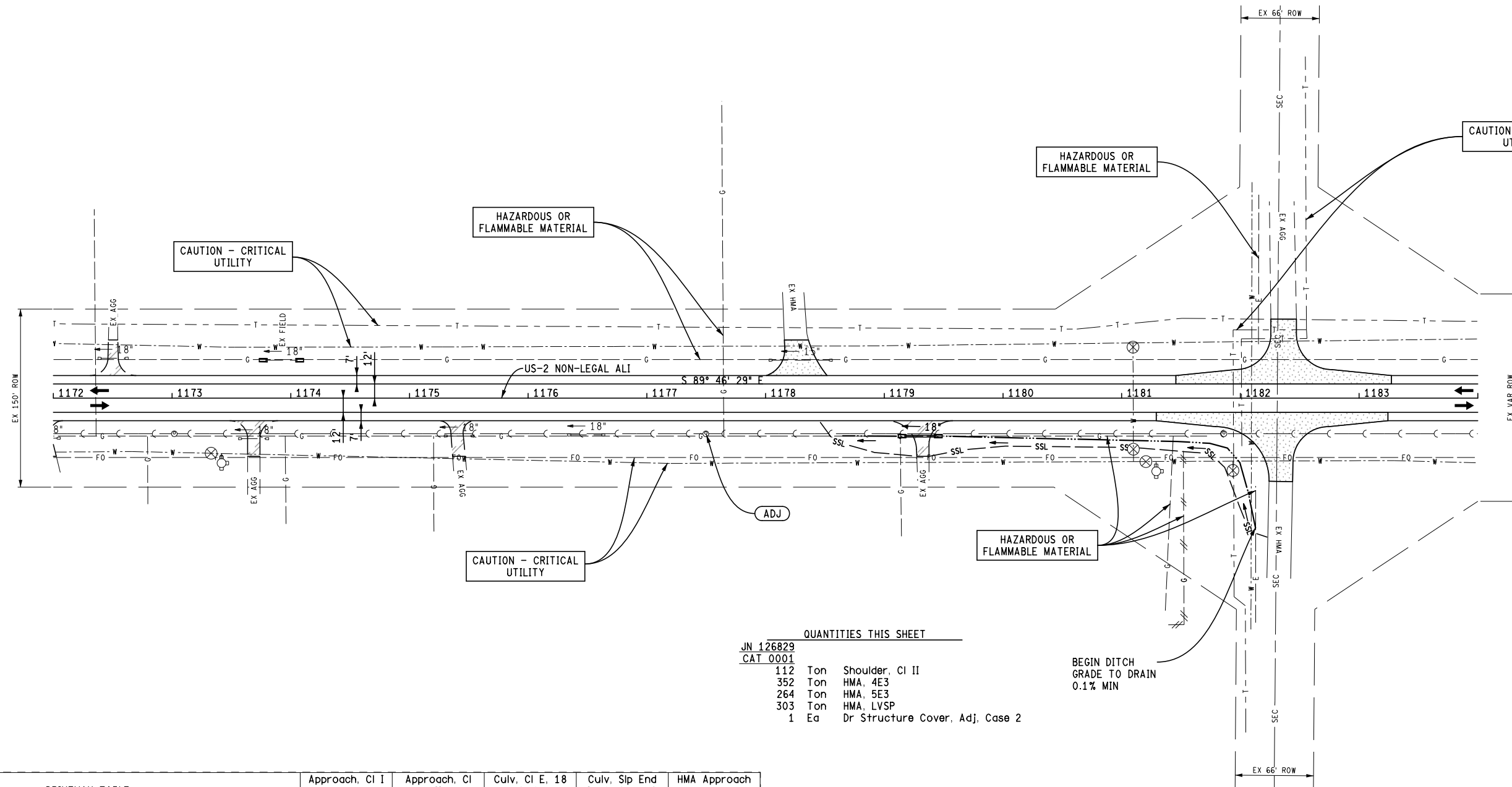
FILE: 126829_US2_1172.dgn

DATE: 08/10/18
DESIGN UNIT: KLEIKAMP
TSC: CRYSTAL FALLS

CS: 36022
JN: 126829A
201197A

REMOVAL
US-2 STA 1172+00 TO STA 1184+00

DRAWING	SHEET
US-2 REM 016	SECT 1 72



QUANTITIES THIS SHEET

JN 126829
CAT 0001

112	Ton	Shoulder, CI II
352	Ton	HMA, 4E3
264	Ton	HMA, 5E3
303	Ton	HMA, LVSP
1	Ea	Dr Structure Cover, Adj, Case 2

BEGIN DITCH
GRADE TO DRAIN
0.1% MIN

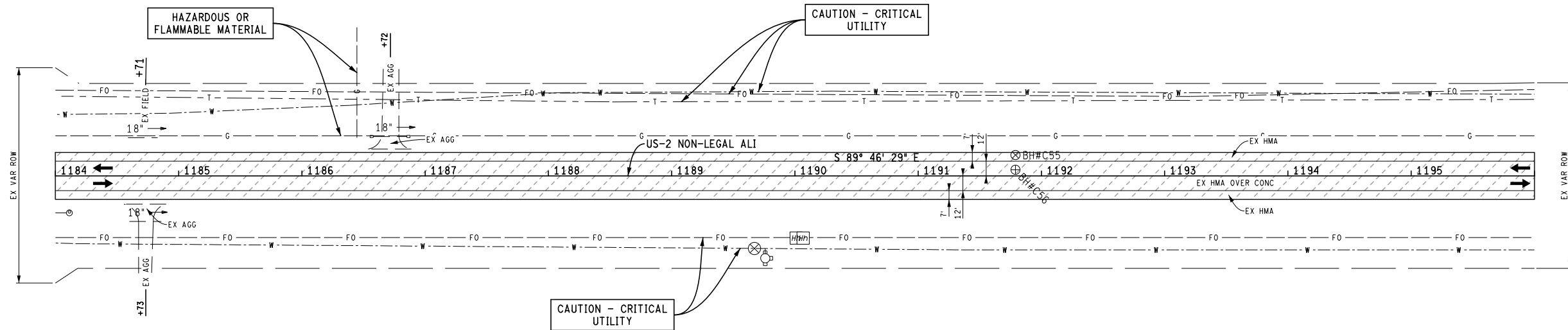
DRIVEWAY TABLE					Approach, CI I	Approach, CI II	Culv, CI E, 18 inch	Culv, Slip End Sect, 1 on 4, 18 inch, Longit	HMA Approach
ALIGNMENT	STATION	BACK OFFSET FROM €	PROP DRIVE WIDTH	APPROACH ROAD NAME	Ton	Ton	Ft	Ea	Ton
US-2	1172+50 LT	49.0	8.0	--	--	14	--	--	--
US-2	1173+69 RT	49.0	10.4	--	--	17	--	--	--
US-2	1173+92 LT	FIELD	--	--	--	--	2	--	--
US-2	1175+37 RT	49.0	10.7	--	--	15	--	--	--
US-2	1178+29 LT	49.0	20.4	--	--	--	--	15	--
US-2	1179+31 RT	49.0	10.3	--	--	22	24	2	--
US-2	1182+34 RT	70.2	19.9	PASSAMANI	144	--	--	--	82
US-2	1182+36 LT	66.6	21.5	LARSON RD	128	--	--	--	73
JN 126829A CAT 0001 TOTAL					272	68	24	4	170

SECTION 21
T43N, R34W
BATES TWP



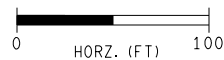
US-2

US-2



QUANTITIES THIS SHEET
JN 126829
CAT 0001
5067 Syd Cold Milling HMA Surface

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



FILE: 126829_US2_1184.dgn

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

CS: 36022

JN: 126829A

201197A

REMOVAL

US-2 STA 1184+00 TO STA 1196+00

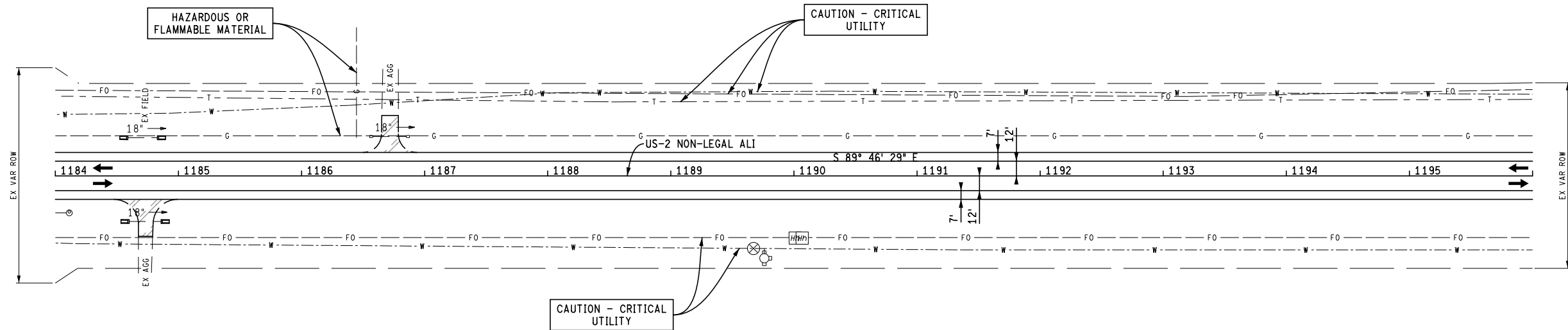
DRAWING	SHEET
US-2 REM 017	SECT 1 74

SECTION 21
T43N, R34W
BATES TWP



US-2

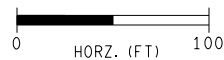
US-2



DRIVEWAY TABLE					Approach, CI II	Culv. Slip End Sect. 1 on 4, 18 inch, Longit
ALIGNMENT	STATION	BACK OFFSET FROM C	PROP DRIVE WIDTH	APPROACH ROAD NAME		
		FT	FT		Ton	Ea
US-2	1184+71 LT	FIELD	--	--	--	2
US-2	1184+73 RT	49.0	11.6	--	21	2
US-2	1186+72 LT	49.0	13.4	--	20	--
JN 126829A CAT 0001 TOTAL					41	4

QUANTITIES THIS SHEET		
JN 126829		
CAT 0001		
120	Ton	Shoulder, CI II
352	Ton	HMA, 4E3
264	Ton	HMA, 5E3
360	Ton	HMA, LVSP

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



FILE: 126829_US2_1184.dgn

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

CS: 36022

JN: 126829A

201197A

CONSTRUCTION

US-2 STA 1184+00 TO STA 1196+00

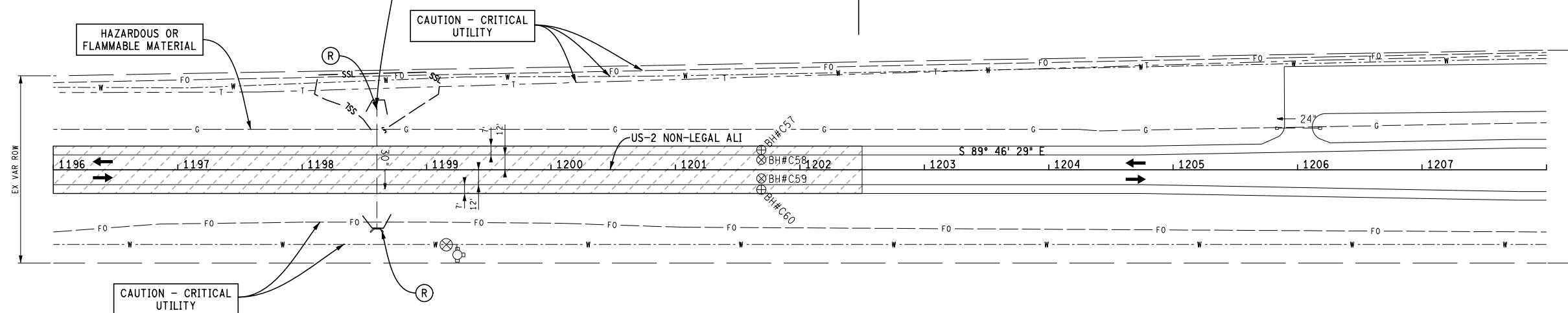
DRAWING	SHEET
US-2 CON 017	SECT 1 75

SECTION 21
T43N, R34W
BATES TWP



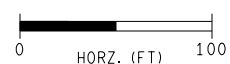
REMOVE HEADWALL AND INSTALL END SECTION (RT)
REMOVE AND REPLACE STEEL EXTENSION AND END SECTION (LT)
1 Ea Culv. Rem, 24 inch to 48 inch
100 Cyd Excavation, Earth

CS 36022
JN 126829A
POE STA 1202+50.00
CS MP 4.061
PR 1277904
PR MP 4.424



QUANTITIES THIS SHEET
JN 126829
CAT 0001
2745 Syd Cold Milling HMA Surface

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



DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A

REMOVAL		DRAWING	SHEET
US-2 STA 1196+00 TO STA 1208+00		US-2	SECT 1
		REM	76
		018	

US-2

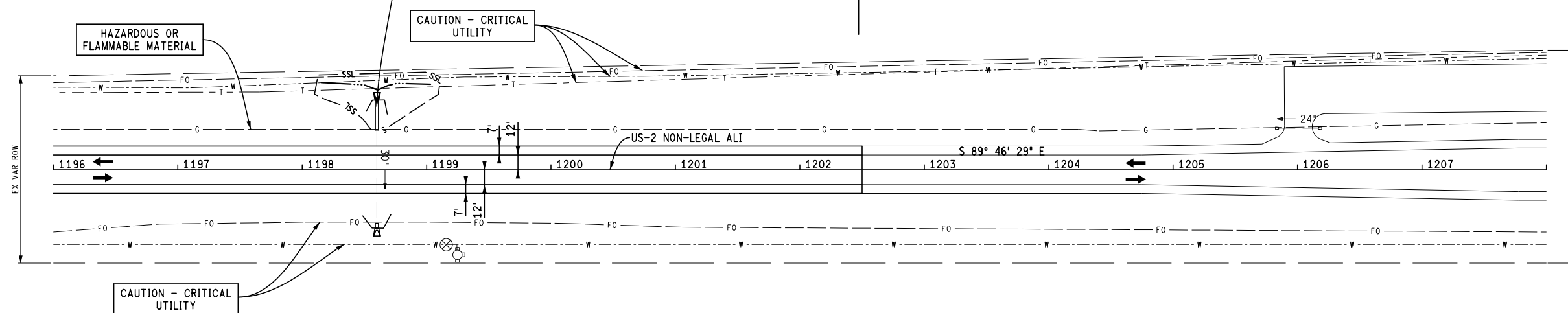
US-2

SECTION 21
T43N, R34W
BATES TWP



REMOVE HEADWALL AND INSTALL END SECTION (RT)
REMOVE AND REPLACE STEEL EXTENSION AND END SECTION (LT)
2 Ea Culv End Sect, Conc, 30 inch
28 Ft Culv, CI A, Conc, 30 inch

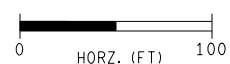
CS 36022
JN 126829A
POE STA 1202+50.00
CS MP 4.061
PR 1277904
PR MP 4.424



QUANTITIES THIS SHEET

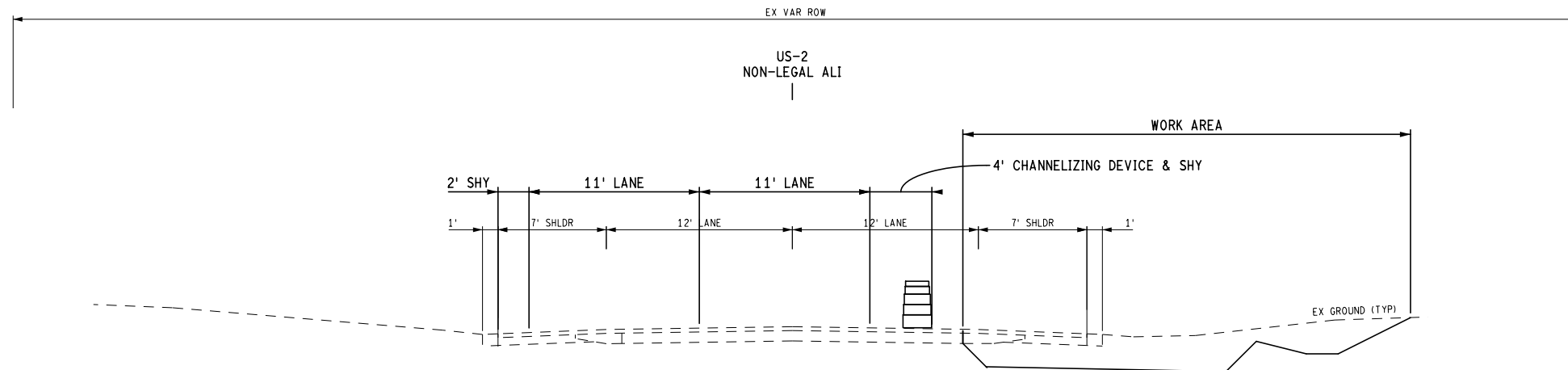
JN 126829		
CAT 0001		
66	Ft	Erosion Control, Silt Fence
65	Ton	Shoulder, CI II
191	Ton	HMA, 4E3
143	Ton	HMA, 5E3
195	Ton	HMA, LVSP

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



DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A

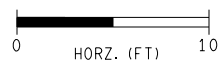
CONSTRUCTION		DRAWING	SHEET
US-2 STA 1196+00 TO STA 1208+00		US-2 CON 018	SECT 1 77



TYPICAL STAGING SECTION

SECTION APPLIES TO:
WIDENING AREAS (LT & RT)

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



FILE: 126829_MOT_Typ.dgn

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

CS: 36022

JN: 126829A

201197A

MAINTAINING TRAFFIC STAGE TYPICAL CROSS SEC

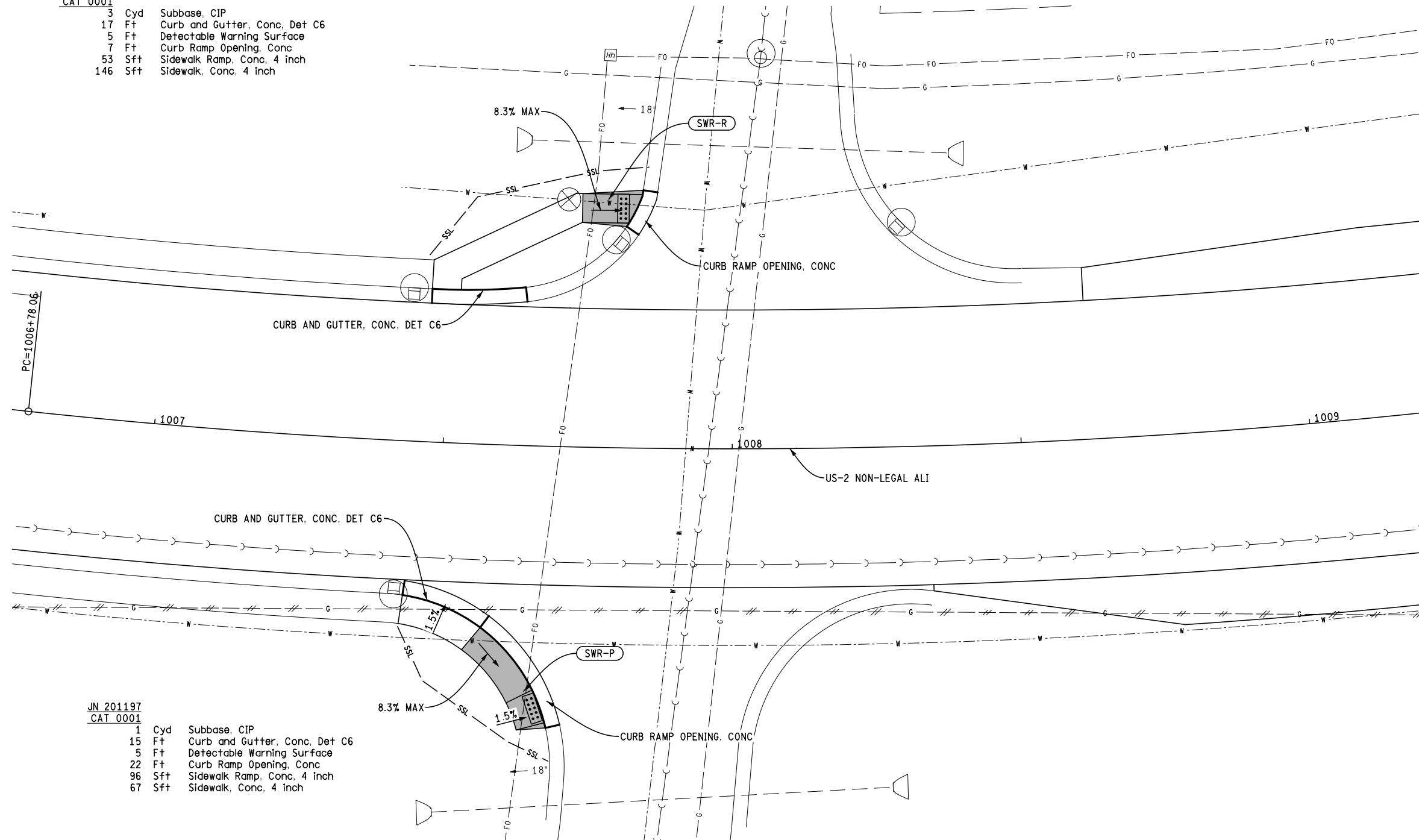
DRAWING	SHEET
US-2 MT TYP 001	SECT 1 78

CEDAR AVE



JN 201197
CAT 0001

- 3 Cyd Subbase, CIP
- 17 Ft Curb and Gutter, Conc, Det C6
- 5 Ft Detectable Warning Surface
- 7 Ft Curb Ramp Opening, Conc
- 53 Sft Sidewalk Ramp, Conc, 4 inch
- 146 Sft Sidewalk, Conc, 4 inch



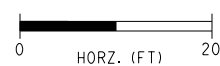
JN 201197
CAT 0001

- 1 Cyd Subbase, CIP
- 15 Ft Curb and Gutter, Conc, Det C6
- 5 Ft Detectable Warning Surface
- 22 Ft Curb Ramp Opening, Conc
- 96 Sft Sidewalk Ramp, Conc, 4 inch
- 67 Sft Sidewalk, Conc, 4 inch

NOTE: SIDEWALK LIMITS AND QUANTITIES ARE APPROXIMATE. CONSTRUCT ADA RAMPS PER STANDARD PLAN R-28-SERIES AND AS DIRECTED BY THE ENGINEER.

CEDAR AVE

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



DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A

FILE: 126829_De+Grd_02.dgn

DETAIL GRADES	
US-2 AT CEDAR AVE	

DRAWING	SHEET
US-2 DETGRD 002	SECT 1 80

2ND AVE

1ST AVE

RIVER AVE

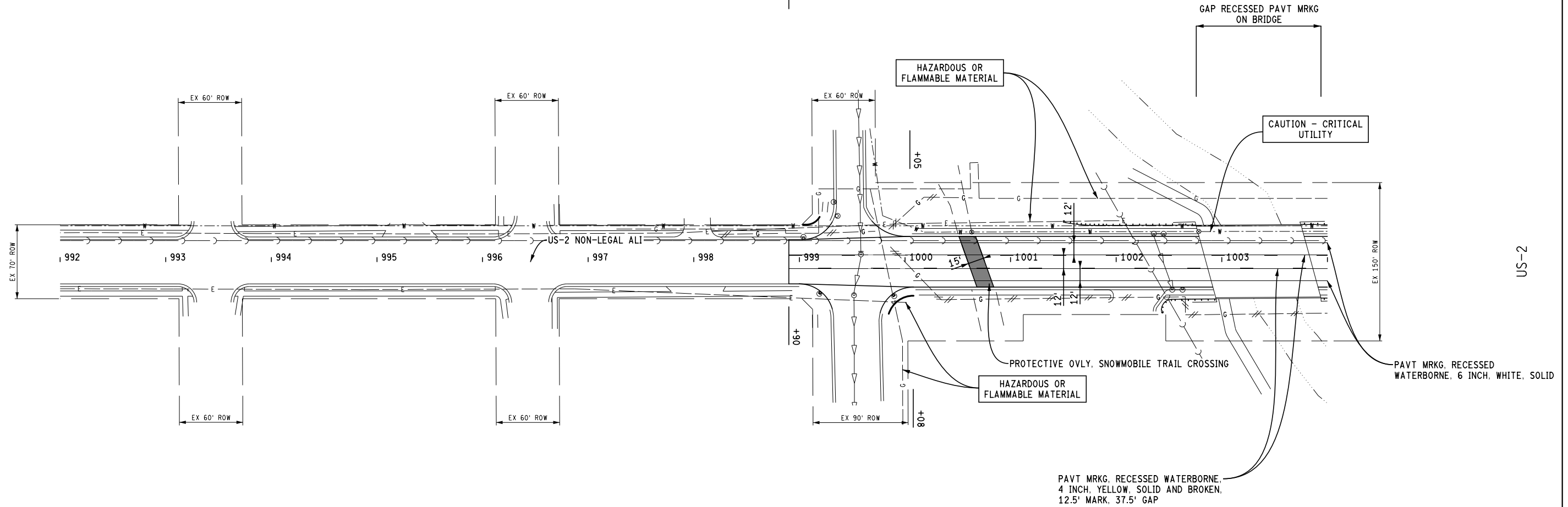
IRON RIVER

SECTION 26
T43N, R35W
CITY OF IRON RIVER

SECTION 25
T43N, R35W
CITY OF IRON RIVER



CS 36022
JN 201197A
POB STA 998+90.00
CS MP 0.217
PR 1277603
PR MP 19.393



QUANTITIES THIS SHEET

JN 201197
CAT 0001

1275	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow
787	Ft	Pavt Mrkg, Waterborne, 6 inch, White
1275	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow
787	Ft	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White
1862	Ft	Recessing Pavt Mrkg, Longit
85	Syd	Protective Ovly, Snowmobile Trail Crossing

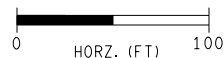
2ND AVE

1ST AVE

RIVER AVE

IRON RIVER

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



FILE: 126829_US2_992.dgn

DATE: 08/10/18
DESIGN UNIT: KLEIKAMP
TSC: CRYSTAL FALLS

CS: 36022
JN: 126829A
201197A

PERMANENT SIGNING/PERMANENT MARKINGS
US-2 STA 992+00 TO STA 1004+00

DRAWING SHEET
US-2 PVMK 001 SECT 1
81

SECTION 25
T43N, R35W
CITY OF IRON RIVER

LAY AVE

CEDAR AVE



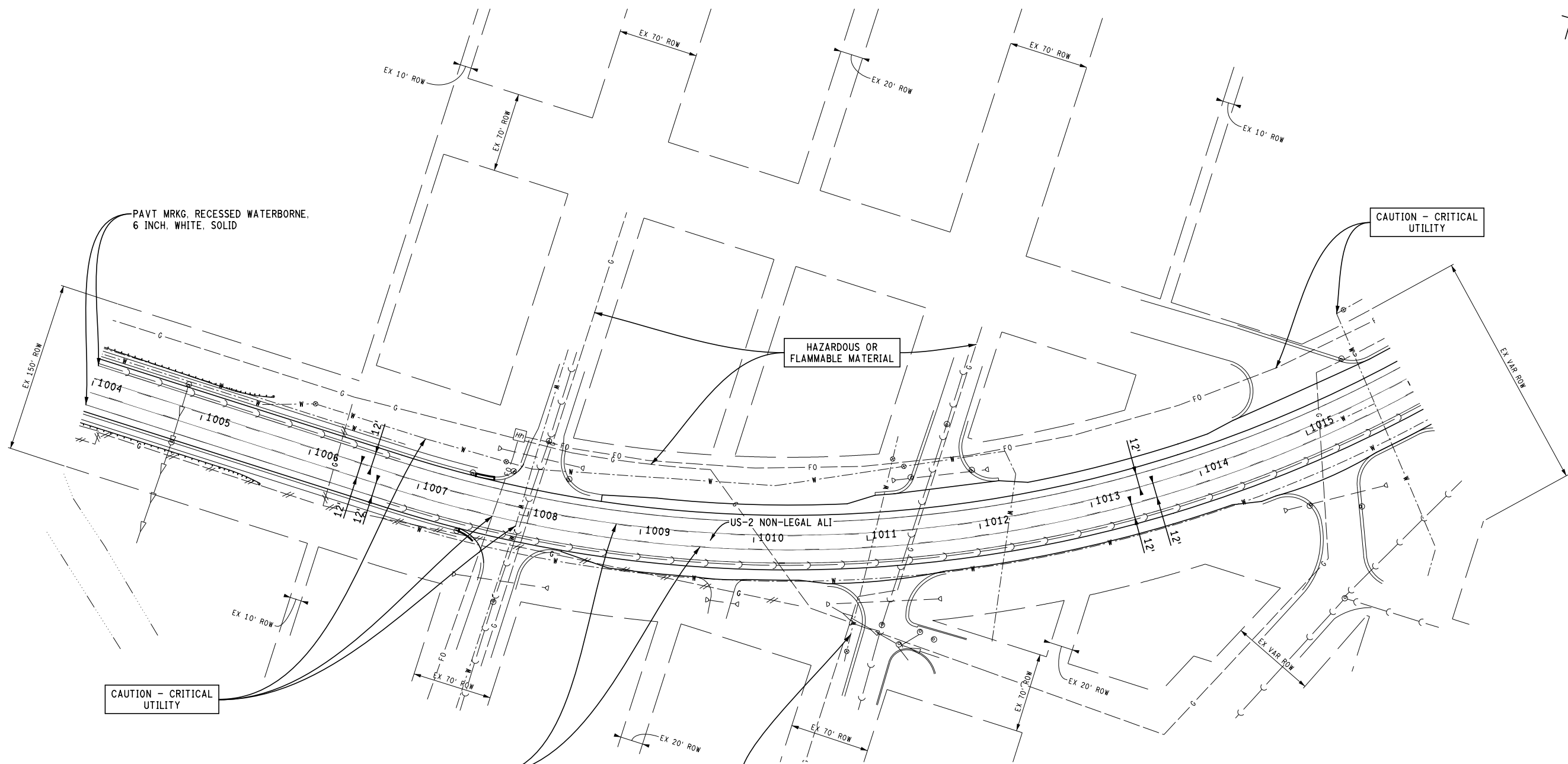
CAYUGA ST

US-2

US-2

CAYUGA ST

ADAMS ST



PAVT MRKG. RECESSED WATERBORNE,
6 INCH, WHITE, SOLID

HAZARDOUS OR
FLAMMABLE MATERIAL

CAUTION - CRITICAL
UTILITY

CAUTION - CRITICAL
UTILITY

PAVT MRKG. RECESSED WATERBORNE,
4 INCH, YELLOW, SOLID AND BROKEN,
12.5' MARK, 37.5' GAP

CAUTION - CRITICAL
UTILITY

QUANTITIES THIS SHEET

JN 201197	
CAT 0001	
3000 Ft	Pav't Mrkg, Waterborne, 4 inch, Yellow
2400 Ft	Pav't Mrkg, Waterborne, 6 inch, White
3000 Ft	Pav't Mrkg, Waterborne, 2nd Application, 4 inch, Yellow
2400 Ft	Pav't Mrkg, Waterborne, 2nd Application, 6 inch, White
5400 Ft	Recessing Pav't Mrkg, Longit

IRON RIVER

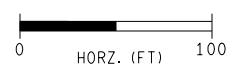
CEDAR AVE

LAY AVE

LALLEY RD

HIGH AVE
(VACATED)

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



FILE: 126829_US2_1004.dgn

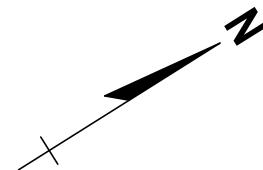
DATE: 08/10/18
DESIGN UNIT: KLEIKAMP
TSC: CRYSTAL FALLS

CS: 36022
JN: 126829A
201197A

PERMANENT SIGNING/PERMANENT MARKINGS
US-2 STA 1004+00 TO STA 1016+00

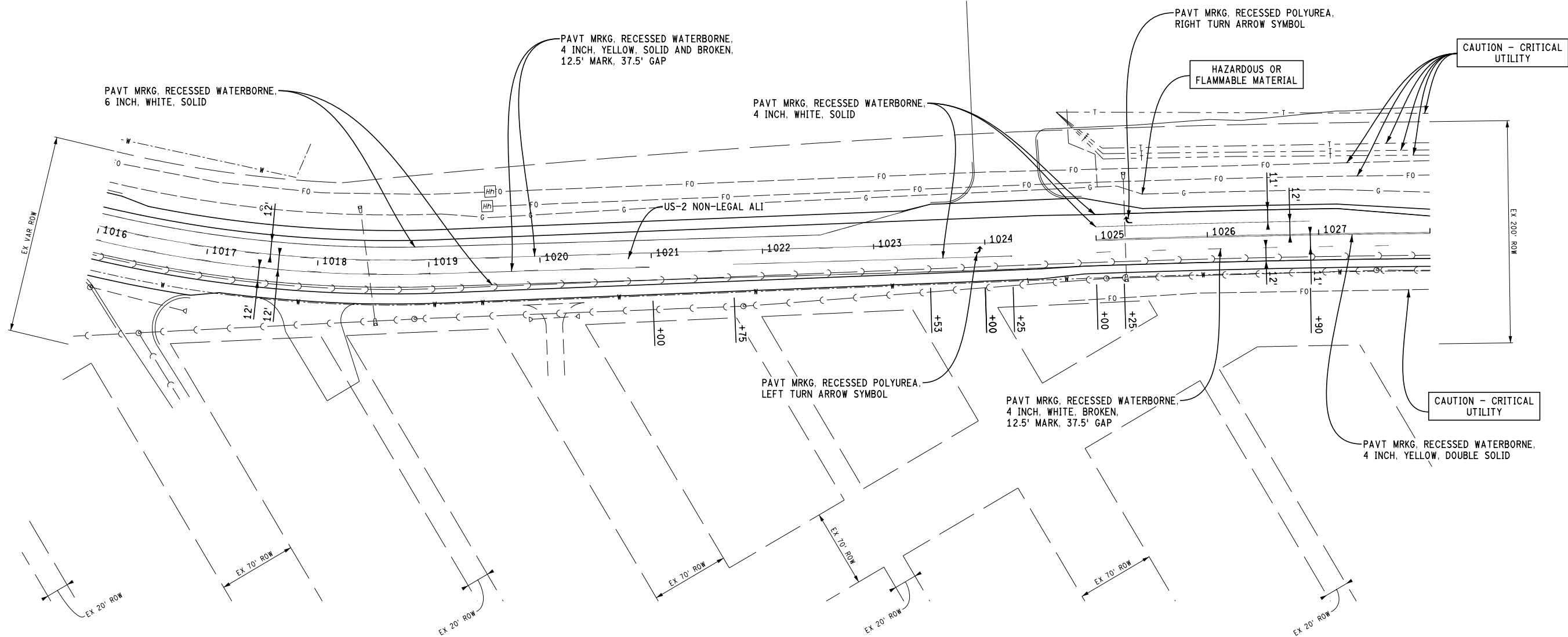
DRAWING SHEET
US-2 PVMK 002
SECT 1
82

CS 36022 JN 201197A ENDS
CS 36022 JN 126829A BEGINS
STA 1024+88.33
CS MP 0.708
PR 1277904
PR MP 1.071



US-2

US-2



QUANTITIES THIS SHEET

JN 201197 JN 126829		CAT 0001 CAT 0001		
250	268	Ft		Pavt Mrkg, Waterborne, 4 inch, White
1657	600	Ft		Pavt Mrkg, Waterborne, 4 inch, Yellow
1600	700	Ft		Pavt Mrkg, Waterborne, 6 inch, White
1657	600	Ft		Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow
1600	700	Ft		Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White
1		Ea		Pavt Mrkg, Polyurea, Lt Turn Arrow Sym
	1	Ea		Pavt Mrkg, Polyurea, Rt Turn Arrow Sym
3507	1568	Ft		Recessing Pavt Mrkg, Longit
16	16	Sft		Recessing Pavt Mrkg, Transv
	300	Ft		Centerline Corrugations, Milled, HMA
	600	Ft		Non-Freeway Shoulder Corrugations, Milled, HMA
250	268	Ft		Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White

CAYUGA ST

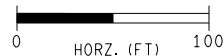
PEARL AVE

HAMMER ST

BATES ST

TERRY ST

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



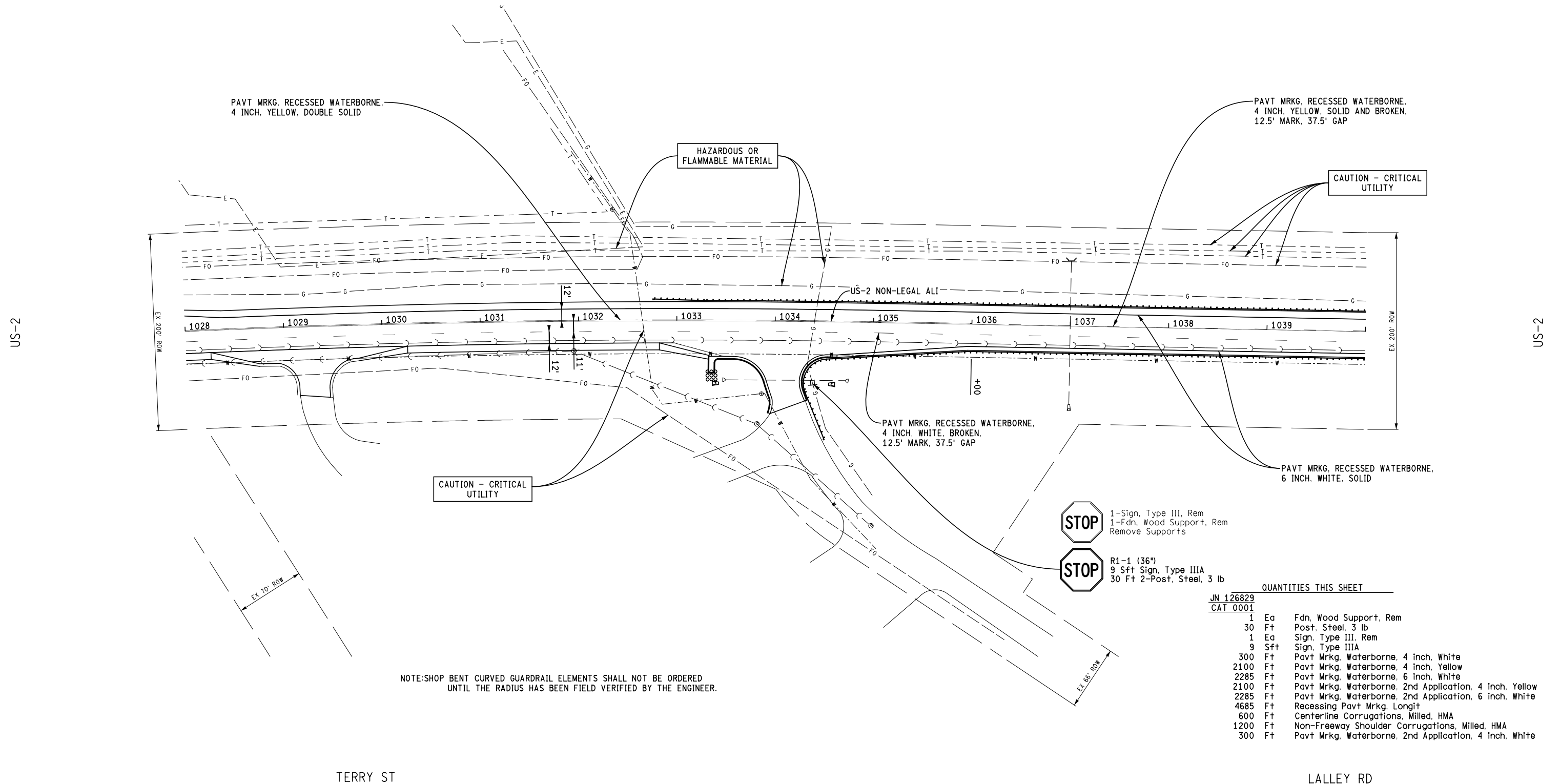
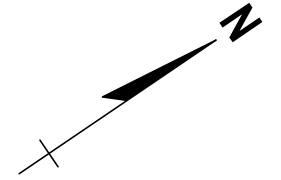
FILE: 126829_US2_1016.dgn

DATE: 08/10/18
DESIGN UNIT: KLEIKAMP
TSC: CRYSTAL FALLS

CS: 36022
JN: 126829A
201197A

PERMANENT SIGNING/PERMANENT MARKINGS
US-2 STA 1016+00 TO STA 1028+00

DRAWING SHEET
US-2 PVMK 003
83



NOTE: SHOP BENT CURVED GUARDRAIL ELEMENTS SHALL NOT BE ORDERED UNTIL THE RADIUS HAS BEEN FIELD VERIFIED BY THE ENGINEER.

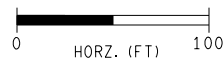
- 1-Sign, Type III, Rem
- 1-Fdn, Wood Support, Rem
- Remove Supports
- R1-1 (36")
- 9 Sft Sign, Type IIIA
- 30 Ft 2-Post, Steel, 3 lb

QUANTITIES THIS SHEET

JN 126829
CAT 0001

1	Ea	Fdn, Wood Support, Rem
30	Ft	Post, Steel, 3 lb
1	Ea	Sign, Type III, Rem
9	Sft	Sign, Type IIIA
300	Ft	Pavt Mrkg, Waterborne, 4 inch, White
2100	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow
2285	Ft	Pavt Mrkg, Waterborne, 6 inch, White
2100	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow
2285	Ft	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White
4685	Ft	Recessing Pavt Mrkg, Longit
600	Ft	Centerline Corrugations, Milled, HMA
1200	Ft	Non-Freeway Shoulder Corrugations, Milled, HMA
300	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White

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



FILE: 126829_US2_1028.dgn

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

CS: 36022

JN: 126829A

201197A

PERMANENT SIGNING/PERMANENT MARKINGS

US-2 STA 1028+00 TO STA 1040+00

DRAWING SHEET

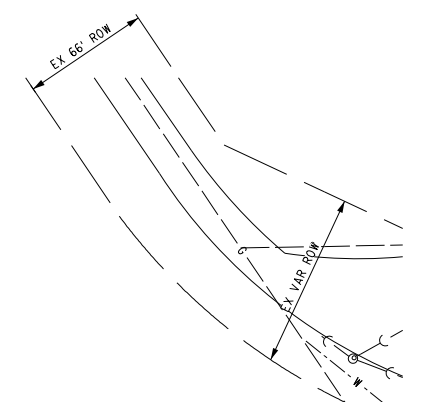
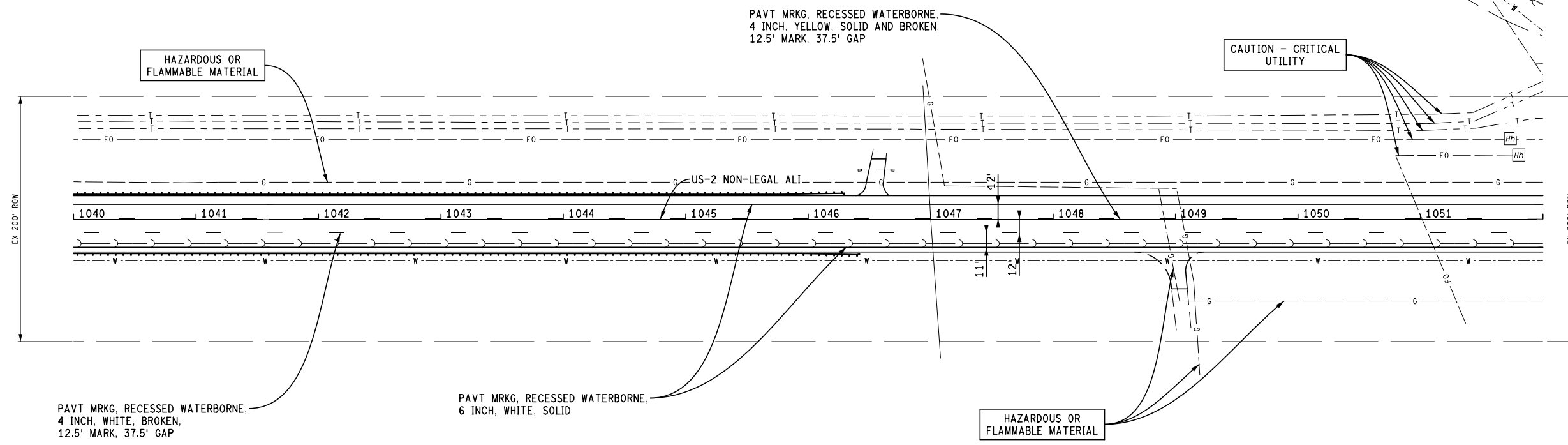
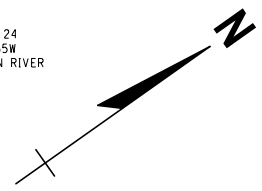
US-2 SECT 1

PVMK 004 84

SECTION 25
T43N, R35W
CITY OF IRON RIVER

SECTION 24
T43N, R35W
CITY OF IRON RIVER

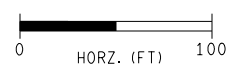
HUNTER RD



QUANTITIES THIS SHEET

JN 126829 CAT 0001		
300 Ft	Pavt Mrkg, Waterborne, 4 inch, White	
1500 Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow	
2400 Ft	Pavt Mrkg, Waterborne, 6 inch, White	
1500 Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	
2400 Ft	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White	
4200 Ft	Recessing Pavt Mrkg, Longit	
1200 Ft	Centerline Corrugations, Milled, HMA	
2400 Ft	Non-Freeway Shoulder Corrugations, Milled, HMA	
300 Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White	

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

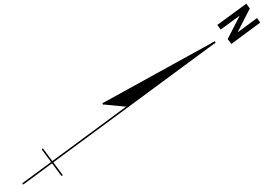


DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A

PERMANENT SIGNING/PERMANENT MARKINGS	DRAWING	SHEET
US-2 STA 1040+00 TO STA 1052+00	US-2 PVMK 005	SECT 1 85

WATER TANK RD

SECTION 24
T43N, R35W
CITY OF IRON RIVER

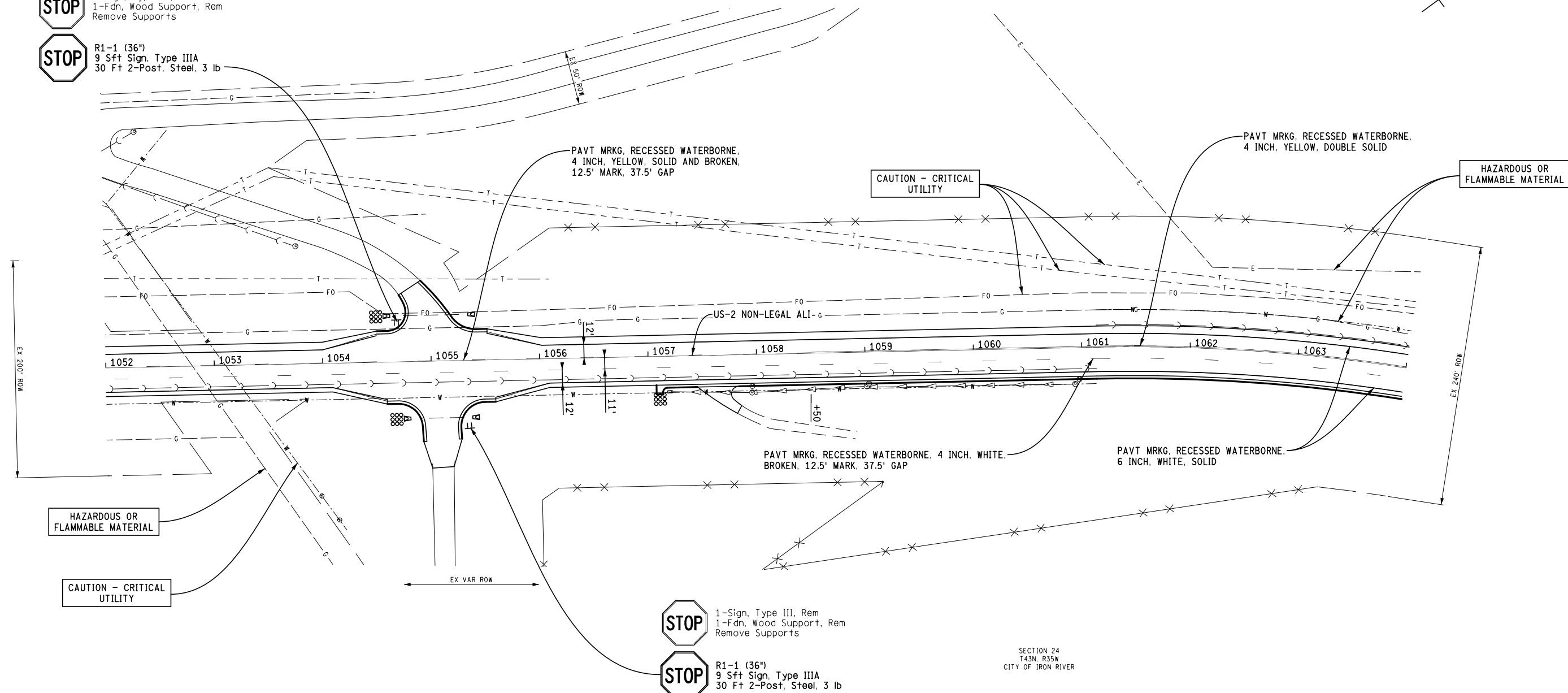


- 1-Sign, Type III, Rem
1-Fdn, Wood Support, Rem
Remove Supports
- R1-1 (36")
9 Sft Sign, Type IIIA
30 Ft 2-Post, Steel, 3 lb

HUNTER RD

US-2

US-2



HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION - CRITICAL UTILITY

CAUTION - CRITICAL UTILITY

HAZARDOUS OR FLAMMABLE MATERIAL

- 1-Sign, Type III, Rem
1-Fdn, Wood Support, Rem
Remove Supports
- R1-1 (36")
9 Sft Sign, Type IIIA
30 Ft 2-Post, Steel, 3 lb

SECTION 24
T43N, R35W
CITY OF IRON RIVER

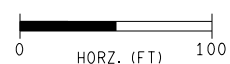
SECTION 25
T43N, R35W
CITY OF IRON RIVER

QUANTITIES THIS SHEET

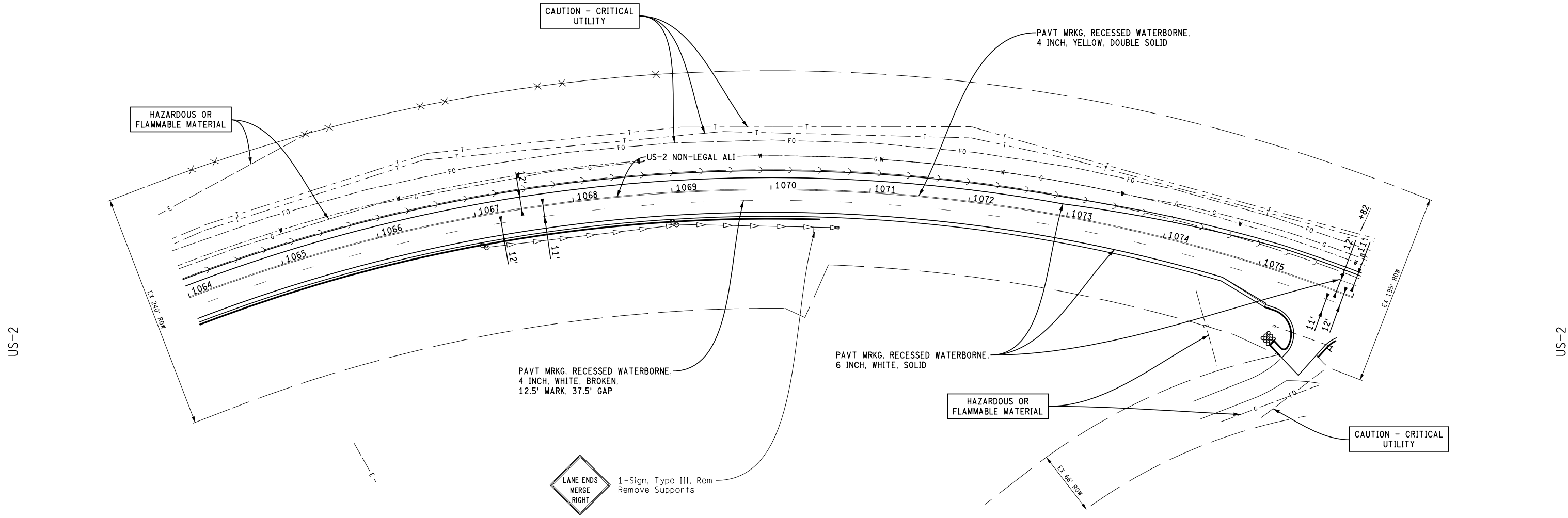
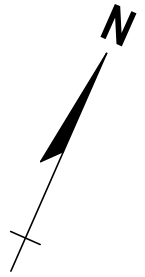
JN 126829 CAT 0001		
2	Ea	Fdn, Wood Support, Rem
60	Ft	Post, Steel, 3 lb
2	Ea	Sign, Type III, Rem
18	Sft	Sign, Type IIIA
300	Ft	Pavt Mrkg, Waterborne, 4 inch, White
1913	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow
2400	Ft	Pavt Mrkg, Waterborne, 6 inch, White
1913	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow
2400	Ft	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White
4613	Ft	Recessing Pavt Mrkg, Longit
1200	Ft	Centerline Corrugations, Milled, HMA
2400	Ft	Non-Freeway Shoulder Corrugations, Milled, HMA
300	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White

HUNTER RD

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

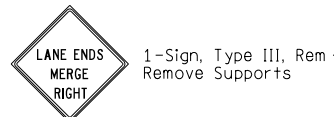


FILE: 126829_US2_1052.dgn	DATE: 08/10/18	CS: 36022	PERMANENT SIGNING/PERMANENT MARKINGS	DRAWING	SHEET
TSC: CRYSTAL FALLS	DESIGN UNIT: KLEIKAMP	JN: 126829A	US-2 STA 1052+00 TO STA 1064+00	US-2	SECT 1
		201197A		PVMK	86
				006	



US-2

US-2

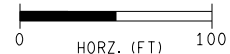


QUANTITIES THIS SHEET

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION
JN 126829							
CAT 0001							
1	Ea		Fdn. Wood Support, Rem				
1	Ea		Sign, Type III, Rem				
318	Ft		Pavt Mrkg, Waterborne, 4 inch, White				
2400	Ft		Pavt Mrkg, Waterborne, 4 inch, Yellow				
2321	Ft		Pavt Mrkg, Waterborne, 6 inch, White				
2400	Ft		Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow				
2321	Ft		Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White				
5039	Ft		Recessing Pavt Mrkg, Longit				
1200	Ft		Centerline Corrugations, Milled, HMA				
2400	Ft		Non-Freeway Shoulder Corrugations, Milled, HMA				
318	Ft		Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White				

LALLEY RD

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)										DATE: 08/10/18		CS: 36022		PERMANENT SIGNING/PERMANENT MARKINGS		DRAWING		SHEET	
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION			DESIGN UNIT: KLEIKAMP		JN: 126829A		US-2 STA 1064+00 TO STA 1076+00		US-2		SECT 1	
								0		HORIZ. (FT)		201197A				PVMK		87	
								FILE: 126829_US2_1064.dgn		TSC: CRYSTAL FALLS						007			



BATES MINE TWP RD

SUNSET LAKE RD

SECTION 24
T43N, R35W
CITY OF IRON RIVER

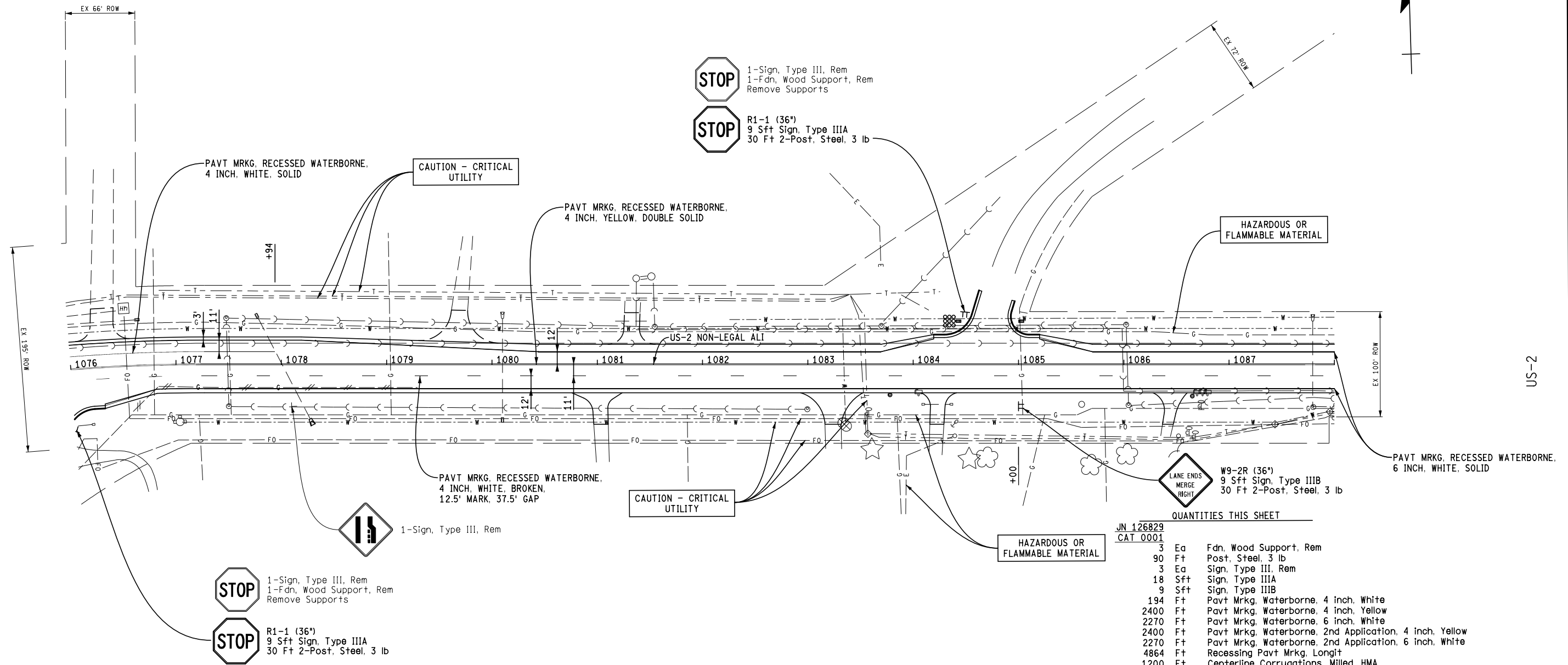
SECTION 19
T43N, R34W
BATES TWP



US-2

US-2

LALLEY RD



QUANTITIES THIS SHEET

JN 126829
CAT 0001

3	Ea	Fdn, Wood Support, Rem
90	Ft	Post, Steel, 3 lb
3	Ea	Sign, Type III, Rem
18	Sft	Sign, Type IIIA
9	Sft	Sign, Type IIIB
194	Ft	Pavt Mrkg, Waterborne, 4 inch, White
2400	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow
2270	Ft	Pavt Mrkg, Waterborne, 6 inch, White
2400	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow
2270	Ft	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White
4864	Ft	Recessing Pavt Mrkg, Longit
1200	Ft	Centerline Corrugations, Milled, HMA
2400	Ft	Non-Freeway Shoulder Corrugations, Milled, HMA
194	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)								DATE: 08/10/18	CS: 36022	PERMANENT SIGNING/PERMANENT MARKINGS	DRAWING	SHEET
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE			AUTH	DESCRIPTION	DESIGN UNIT: KLEIKAMP	JN: 126829A	US-2 STA 1076+00 TO STA 1088+00
								FILE: 126829_US2_1076.dgn	TSC: CRYSTAL FALLS	201197A		88

ABANDONED RR

SECTION 19
T43N, R34W
BATES TWP



DO NOT PASS
1-Sign, Type III, Rem
1-Fdn, Wood Support, Rem
Remove Supports

DO NOT PASS
R4-1 (24" X 30")
5 Sft Sign, Type IIIB
15 Ft 1-Post, Steel, 3 lb

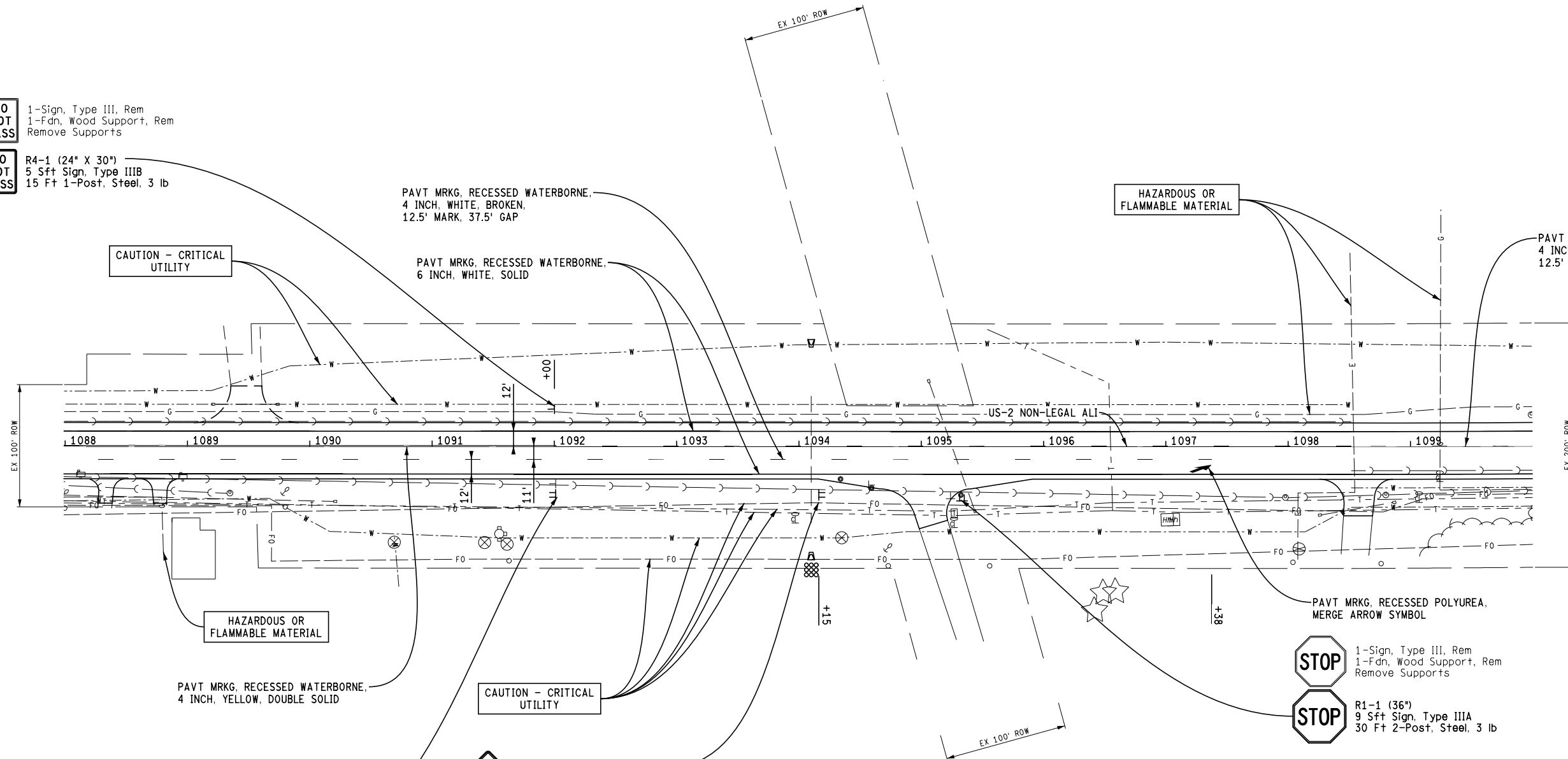
PAVT MRKG, RECESSED WATERBORNE,
4 INCH, WHITE, BROKEN,
12.5' MARK, 37.5' GAP

PAVT MRKG, RECESSED WATERBORNE,
6 INCH, WHITE, SOLID

HAZARDOUS OR
FLAMMABLE MATERIAL

PAVT MRKG, RECESSED WATERBORNE,
4 INCH, YELLOW, SOLID AND BROKEN,
12.5' MARK, 37.5' GAP

CAUTION - CRITICAL
UTILITY



PAVT MRKG, RECESSED WATERBORNE,
4 INCH, YELLOW, DOUBLE SOLID

CAUTION - CRITICAL
UTILITY

PAVT MRKG, RECESSED POLYUREA,
MERGE ARROW SYMBOL

STOP
1-Sign, Type III, Rem
1-Fdn, Wood Support, Rem
Remove Supports

STOP
R1-1 (36")
9 Sft Sign, Type IIIA
30 Ft 2-Post, Steel, 3 lb

NO PASSING ZONE
1-Sign, Type II, Rem
Remove Supports

NO PASSING ZONE
W14-3 (48" X 36")
6 Sft Sign, Type VB
29 Ft 2-Post, Steel, 3 lb

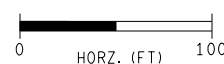
W4-2R (36")
9 Sft Sign, Type IIIB
30 Ft 2-Post, Steel, 3 lb

QUANTITIES THIS SHEET

JN 126829 CAT 0001		
3	Ea	Fdn, Wood Support, Rem
104	Ft	Post, Steel, 3 lb
1	Ea	Sign, Type II, Rem
2	Ea	Sign, Type III, Rem
9	Sft	Sign, Type IIIA
14	Sft	Sign, Type IIIB
6	Sft	Sign, Type VB
1	Ea	Pavt Mrkg, Polyurea, Merge Arrow Symbol
300	Ft	Pavt Mrkg, Waterborne, 4 inch, White
1838	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow
2400	Ft	Pavt Mrkg, Waterborne, 6 inch, White
1838	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow
2400	Ft	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White
4538	Ft	Recessing Pavt Mrkg, Longit
42	Sft	Recessing Pavt Mrkg, Transv
1200	Ft	Centerline Corrugations, Milled, HMA
2400	Ft	Non-Freeway Shoulder Corrugations, Milled, HMA
300	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White

ABANDONED RR
(ANDERSON RD)

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



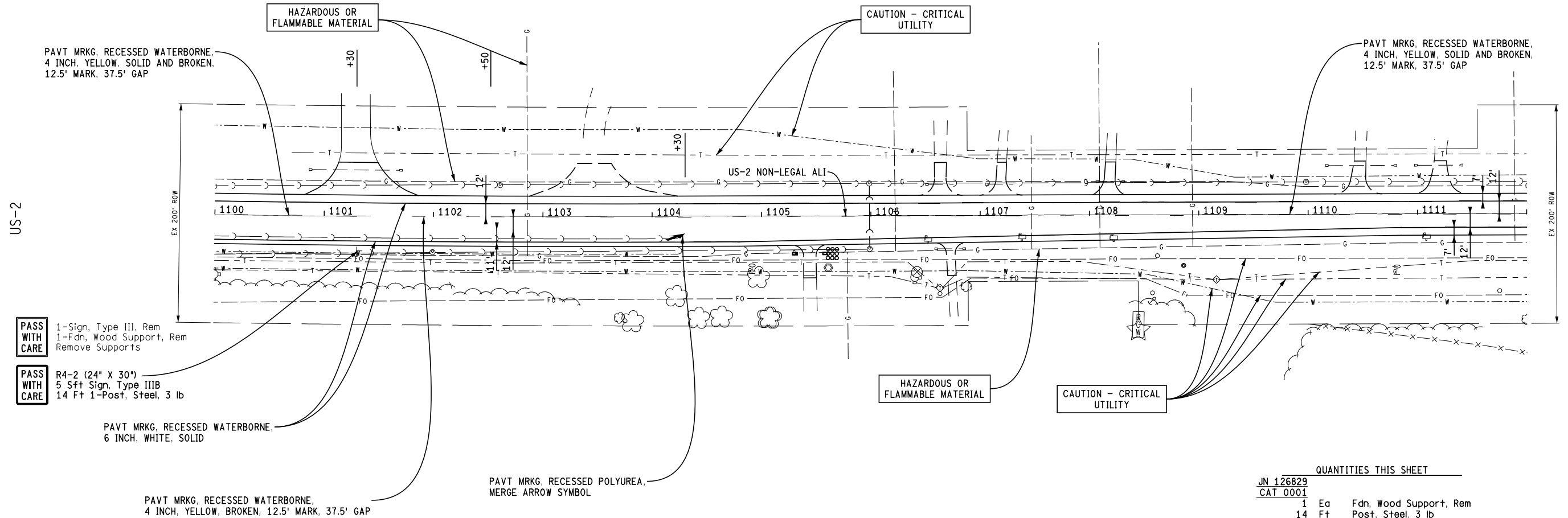
FILE: 126829_US2_1088.dgn

DATE: 08/10/18
DESIGN UNIT: KLEIKAMP
TSC: CRYSTAL FALLS

CS: 36022
JN: 126829A
201197A

PERMANENT SIGNING/PERMANENT MARKINGS
US-2 STA 1088+00 TO STA 1100+00

DRAWING SHEET
US-2 PVMK 009
SECT 1 89



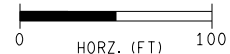
- PASS WITH CARE**
1-Sign, Type III, Rem
1-Fdn, Wood Support, Rem
Remove Supports
- PASS WITH CARE**
R4-2 (24" X 30")
5 Sft Sign, Type IIIB
14 Ft 1-Post, Steel, 3 lb

QUANTITIES THIS SHEET

JN 126829
CAT 0001

1	Ea	Fdn, Wood Support, Rem
14	Ft	Post, Steel, 3 lb
1	Ea	Sign, Type III, Rem
5	Sft	Sign, Type IIIB
1	Ea	Pavt Mrkg, Polyurea, Merge Arrow Symbol
1380	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow
2400	Ft	Pavt Mrkg, Waterborne, 6 inch, White
1380	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow
2400	Ft	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White
3780	Ft	Recessing Pavt Mrkg, Longit
42	Sft	Recessing Pavt Mrkg, Transv
1200	Ft	Centerline Corrugations, Milled, HMA
2400	Ft	Non-Freeway Shoulder Corrugations, Milled, HMA

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

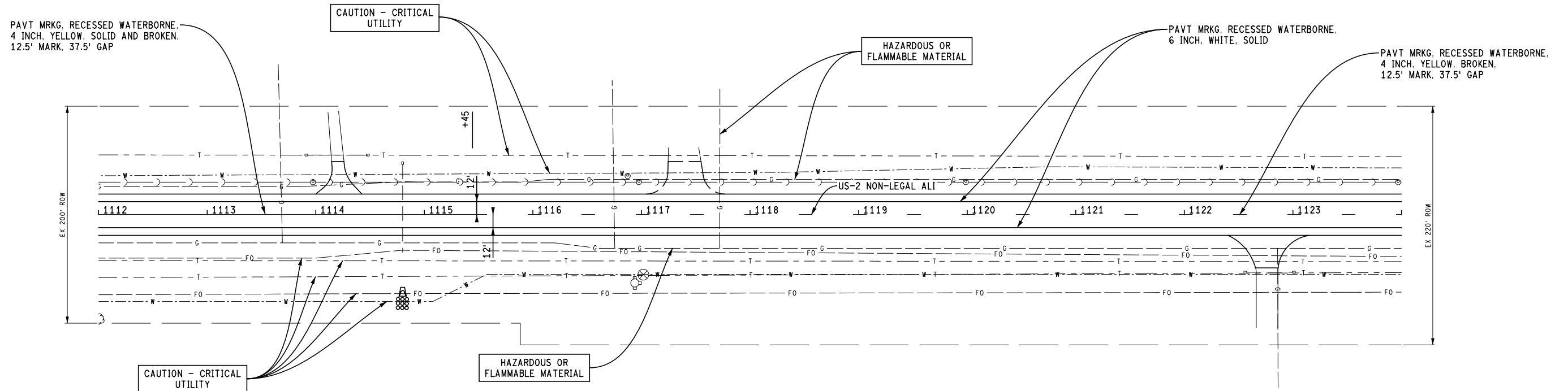


FILE: 126829_US2_1100.dgn	DATE: 08/10/18	CS: 36022	PERMANENT SIGNING/PERMANENT MARKINGS	DRAWING	SHEET
TSC: CRYSTAL FALLS	DESIGN UNIT: KLEIKAMP	JN: 126829A	US-2 STA 1100+00 TO STA 1112+00	US-2 PVMK 010	SECT 1
		201197A			90



US-2

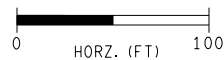
US-2



QUANTITIES THIS SHEET

JN 126829		CAT 0001	
645	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow	
2400	Ft	Pavt Mrkg, Waterborne, 6 inch, White	
645	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	
2400	Ft	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White	
3045	Ft	Recessing Pavt Mrkg, Longit	
1200	Ft	Centerline Corrugations, Milled, HMA	
2400	Ft	Non-Freeway Shoulder Corrugations, Milled, HMA	

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



FILE: 126829_US2_1112.dgn

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

CS: 36022

JN: 126829A

201197A

PERMANENT SIGNING/PERMANENT MARKINGS

US-2 STA 1112+00 TO STA 1124+00

DRAWING SHEET

US-2 SECT 1

PVMK 011 91

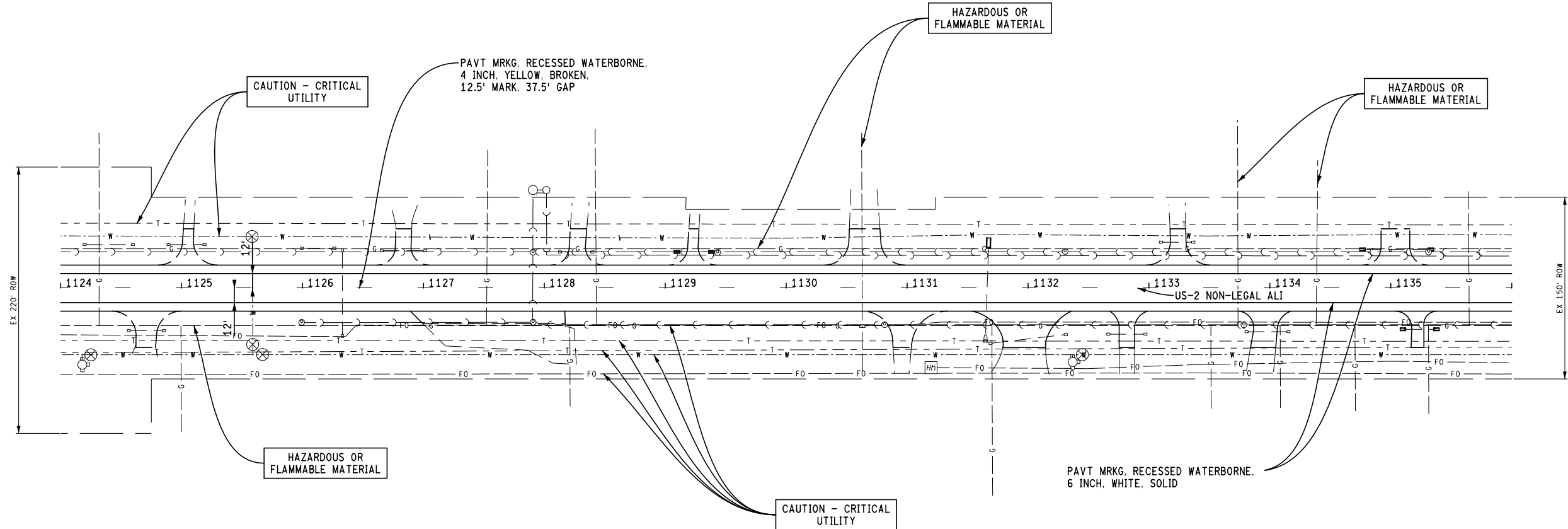
SECTION 19
T43N, R34W
BATES TWP

SECTION 20
T43N, R34W
BATES TWP



US-2

US-2



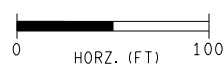
QUANTITIES THIS SHEET

JN 126829
CAT 0001

300	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow
2400	Ft	Pavt Mrkg, Waterborne, 6 inch, White
300	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow
2400	Ft	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White
2700	Ft	Recessing Pavt Mrkg, Longit
1200	Ft	Centerline Corrugations, Milled, HMA
2400	Ft	Non-Freeway Shoulder Corrugations, Milled, HMA

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)

NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION



FILE: 126829_US2_1124.dgn

DATE: 08/10/18

DESIGN UNIT: KLEIKAMP

TSC: CRYSTAL FALLS

CS: 36022

JN: 126829A

201197A

PERMANENT SIGNING/PERMANENT MARKINGS

US-2 STA 1124+00 TO STA 1136+00

DRAWING SHEET

US-2 SECT 1

PVMK 012 92

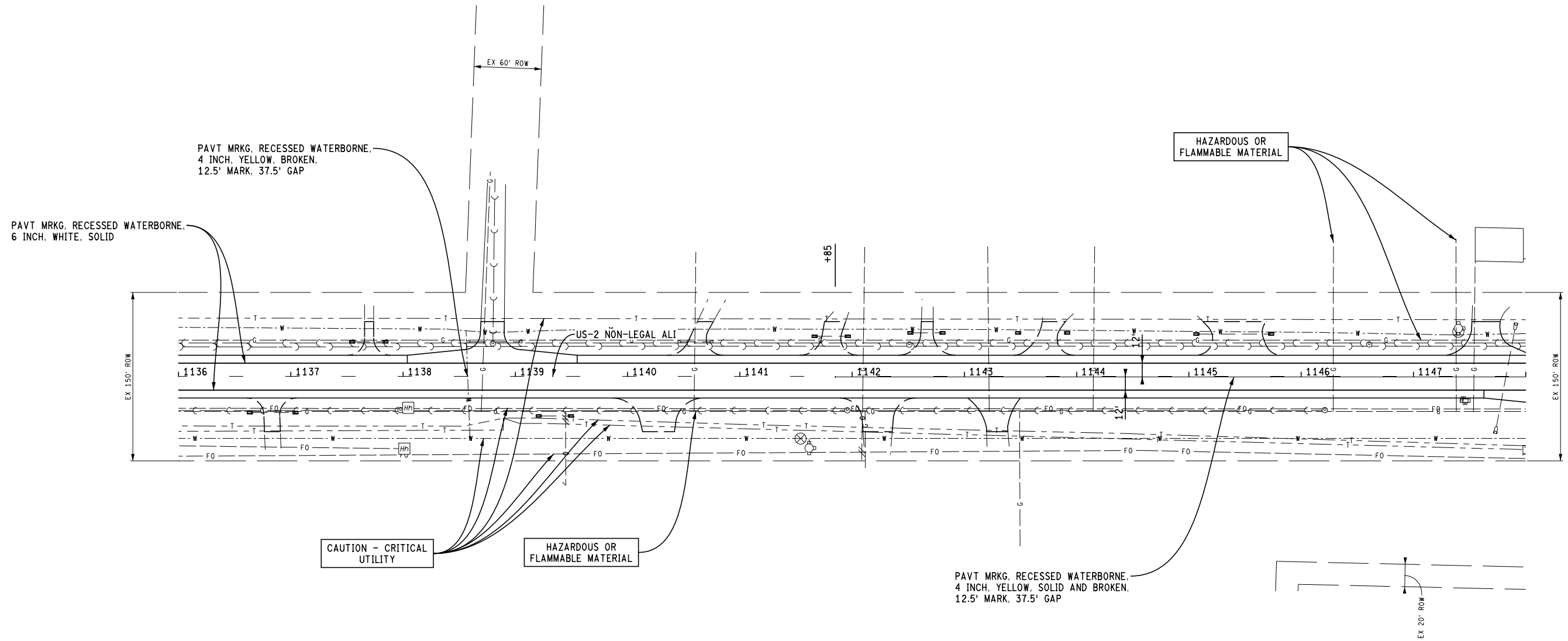
KELLSTROM RD

SECTION 20
T43N, R34W
BATES TWP



US-2

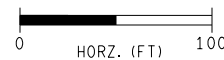
US-2



QUANTITIES THIS SHEET

JN 126829 CAT 0001		
915	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow
2400	Ft	Pavt Mrkg, Waterborne, 6 inch, White
915	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow
2400	Ft	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White
3315	Ft	Recessing Pavt Mrkg, Longit
1200	Ft	Centerline Corrugations, Milled, HMA
2400	Ft	Non-Freeway Shoulder Corrugations, Milled, HMA

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



FILE: 126829_US2_1136.dgn

DATE: 08/10/18
DESIGN UNIT: KLEIKAMP
TSC: CRYSTAL FALLS

CS: 36022
JN: 126829A
201197A

PERMANENT SIGNING/PERMANENT MARKINGS
US-2 STA 1136+00 TO STA 1148+00

DRAWING	SHEET
US-2 PVMK 013	SECT 1 93

SECTION 20
T43N, R34W
BATES TWP



STOP 1-Sign, Type III, Rem
1-Fdn, Wood Support, Rem
Remove Supports

STOP R1-1 (36")
9 Sft Sign, Type IIIA
30 Ft 2-Post, Steel, 3 lb

PASS WITH CARE R4-2 (24" X 30")
5 Sft Sign, Type IIIB
14 Ft 1-Post, Steel, 3 lb

PAVT MRKG, RECESSED WATERBORNE,
4 INCH, WHITE, SOLID

PASS WITH CARE 1-Sign, Type III, Rem
1-Fdn, Wood Support, Rem
Remove Supports

PAVT MRKG, RECESSED WATERBORNE,
4 INCH, YELLOW, DOUBLE SOLID

CONSENT TO GRADE DRIVE

HAZARDOUS OR FLAMMABLE MATERIAL

ONLY R3-7d (36" X 30")
7.5 Sft Sign, Type IIIB
29 Ft 2-Post, Steel, 3 lb

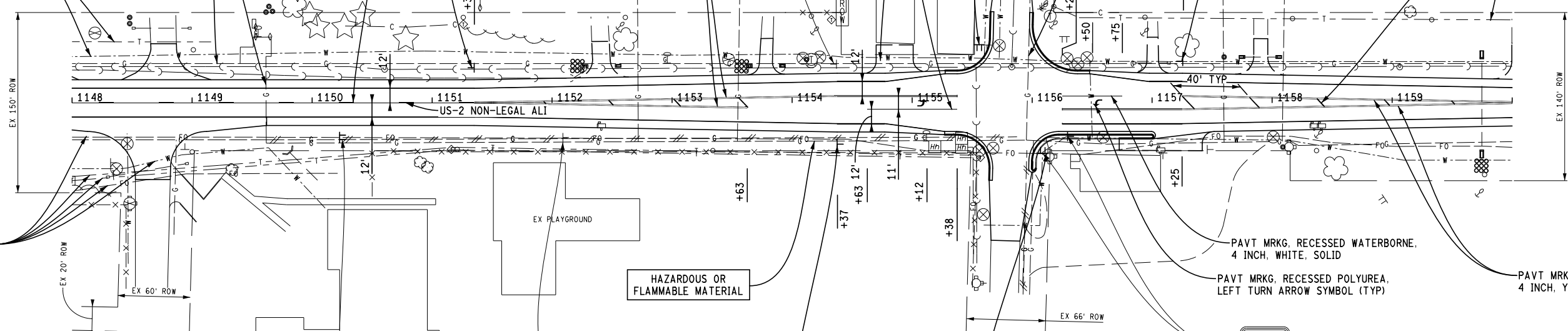
PAVT MRKG, RECESSED WATERBORNE,
12 INCH, YELLOW, SOLID (TYP)

CAUTION - CRITICAL UTILITY

HAZARDOUS OR FLAMMABLE MATERIAL

PAVT MRKG, RECESSED WATERBORNE,
4 INCH, YELLOW, SOLID AND BROKEN,
12.5' MARK, 37.5' GAP

CAUTION - CRITICAL UTILITY



US-2

US-2

CAUTION - CRITICAL UTILITY

HAZARDOUS OR FLAMMABLE MATERIAL

PASS WITH CARE 1-Sign, Type III, Rem
1-Fdn, Wood Support, Rem
Remove Supports

P R8-3 (24")
1 Ea Sign, Type III, Erect, Salv
14 Ft 1-Post, Steel, 3 lb

SALV QUANTITIES THIS SHEET

JN 126829
CAT 0001

6	Ea	Fdn, Wood Support, Rem
146	Ft	Post, Steel, 3 lb
32	Ft	Post, Wood, 4 inch by 6 inch
1	Ea	Sign, Type II, Erect, Salv
1	Ea	Sign, Type II, Rem
1	Ea	Sign, Type III, Erect, Salv
5	Ea	Sign, Type III, Rem
18	Sft	Sign, Type IIIA
20	Sft	Sign, Type IIIB
76	Ft	Pavt Mrkg, Polyurea, 12 inch Cross Hatching, Yellow
125	Ft	Pavt Mrkg, Waterborne, 4 inch, White
2981	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow
2179	Ft	Pavt Mrkg, Waterborne, 6 inch, White
2981	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow
2179	Ft	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White
2	Ea	Pavt Mrkg, Polyurea, Lt Turn Arrow Sym
5285	Ft	Recessing Pavt Mrkg, Longit
32	Sft	Recessing Pavt Mrkg, Transv
335	Ft	Centerline Corrugations, Milled, HMA
2400	Ft	Non-Freeway Shoulder Corrugations, Milled, HMA
125	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White

STOP 1-Sign, Type III, Rem
1-Fdn, Wood Support, Rem
Remove Supports

STOP R1-1 (36")
9 Sft Sign, Type IIIA
30 Ft 2-Post, Steel, 3 lb

ONLY R3-7d (36" X 30")
7.5 Sft Sign, Type IIIB
29 Ft 2-Post, Steel, 3 lb

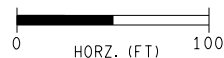
← Reiman Rd
Bates-Gaastra Rd →
1 Ea Sign, Type II, Erect, Salv
2-Fdn, Wood Support, Rem
32 Ft 2-Post, Wood, 4 inch by 6 inch

SALV

ROGERS AVE

BATES-GAASTRA RD

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



FILE: 126829_US2_1148.dgn

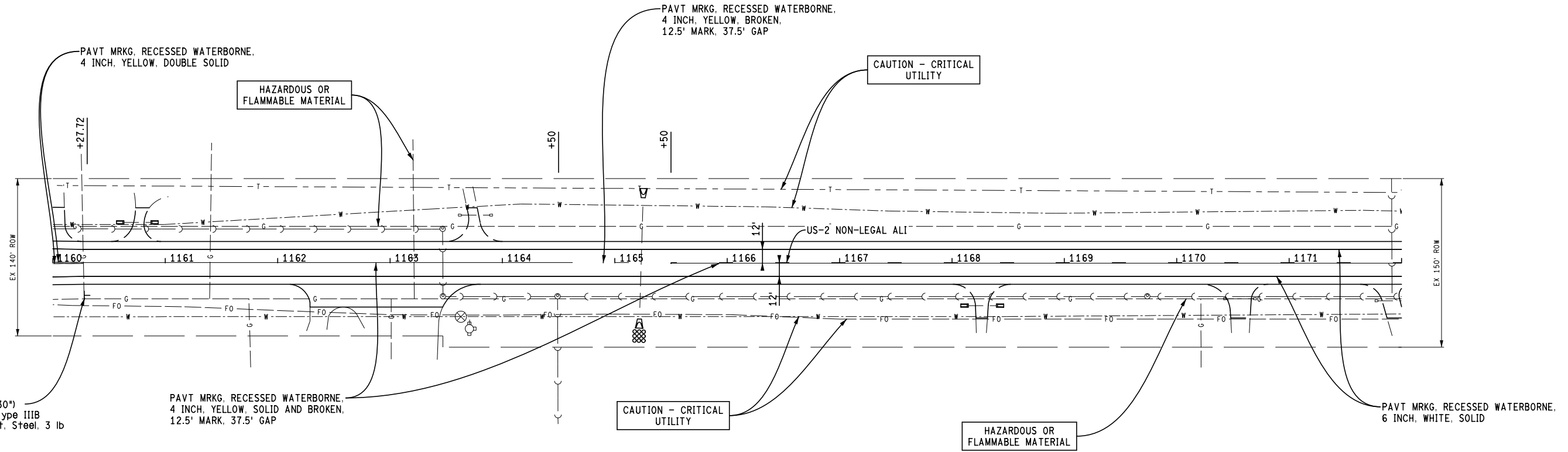
DATE: 08/10/18
DESIGN UNIT: KLEIKAMP
TSC: CRYSTAL FALLS

CS: 36022
JN: 126829A
201197A

PERMANENT SIGNING/PERMANENT MARKINGS
US-2 STA 1148+00 TO STA 1160+00

DRAWING SHEET
US-2 PVMK 014
94

SECTION 20
143N, R34W
BATES TWP



PASS WITH CARE
R4-2 (24" X 30")
5 Sft Sign, Type IIIB
14 Ft 1-Post, Steel, 3 lb

PAVT MRKG. RECESSED WATERBORNE,
4 INCH, YELLOW, SOLID AND BROKEN,
12.5' MARK, 37.5' GAP

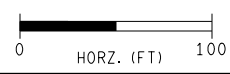
CAUTION - CRITICAL UTILITY

HAZARDOUS OR FLAMMABLE MATERIAL

QUANTITIES THIS SHEET

NO.	UNIT	DESCRIPTION
14	Ft	Post, Steel, 3 lb
5	Sft	Sign, Type IIIB
1400	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow
2400	Ft	Pavt Mrkg, Waterborne, 6 inch, White
1400	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow
2400	Ft	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White
3800	Ft	Recessing Pavt Mrkg, Longit
1200	Ft	Centerline Corrugations, Milled, HMA
2400	Ft	Non-Freeway Shoulder Corrugations, Milled, HMA

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



DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A

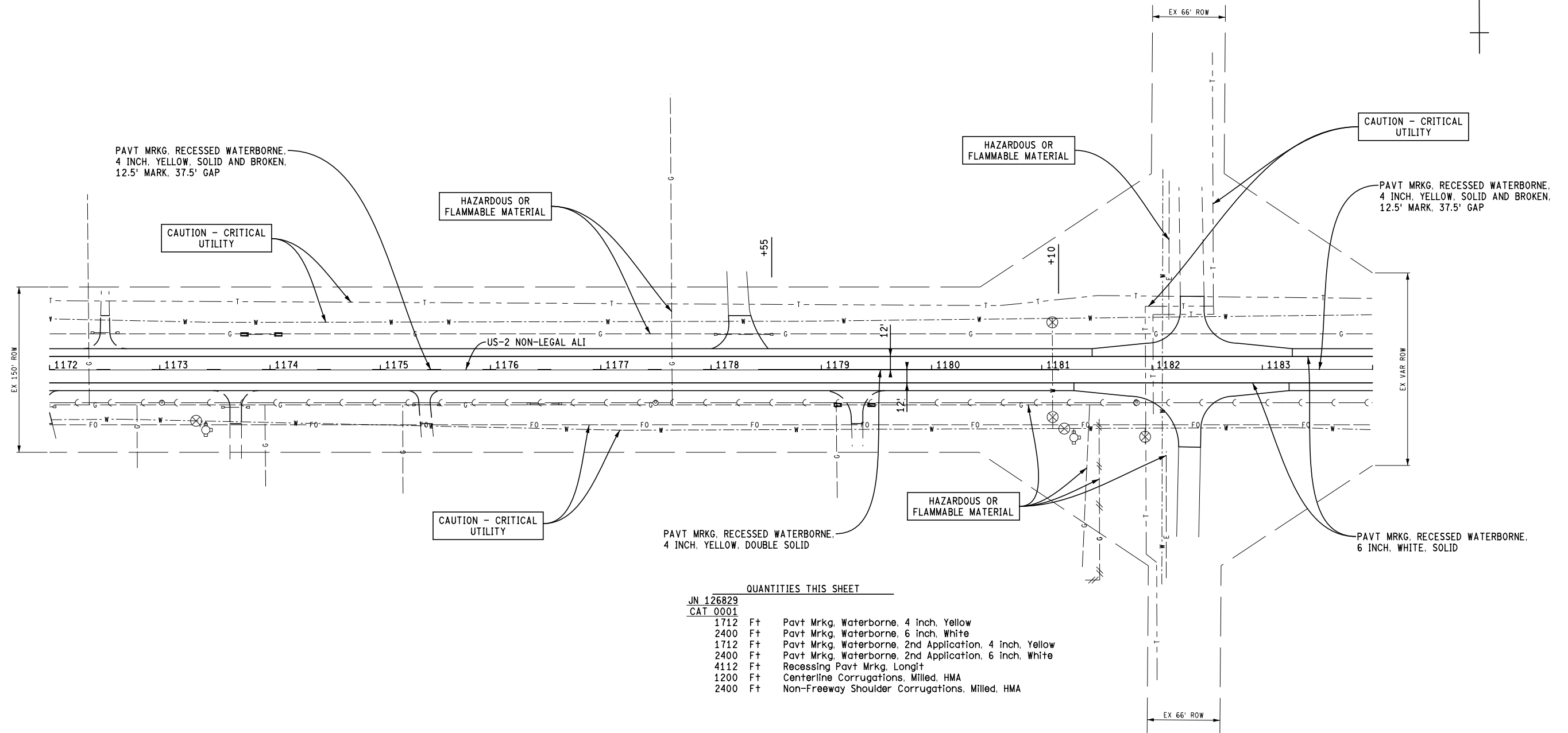
PERMANENT SIGNING/PERMANENT MARKINGS	DRAWING	SHEET
US-2 STA 1160+00 TO STA 1172+00	US-2 PVMK 015	95

FILE: 126829_US2_1160.dgn

LARSON RD

SECTION 20
T43N, R34W
BATES TWP

SECTION 21
T43N, R34W
BATES TWP



QUANTITIES THIS SHEET

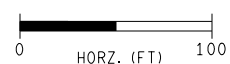
JN 126829	
CAT 0001	
1712 Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow
2400 Ft	Pavt Mrkg, Waterborne, 6 inch, White
1712 Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow
2400 Ft	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White
4112 Ft	Recessing Pavt Mrkg, Longit
1200 Ft	Centerline Corrugations, Milled, HMA
2400 Ft	Non-Freeway Shoulder Corrugations, Milled, HMA

US-2

US-2

PASSAMANI RD

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



FILE: 126829_US2_1172.dgn

DATE: 08/10/18
 DESIGN UNIT: KLEIKAMP
 TSC: CRYSTAL FALLS

CS: 36022
 JN: 126829A
 201197A

PERMANENT SIGNING/PERMANENT MARKINGS
 US-2 STA 1172+00 TO STA 1184+00

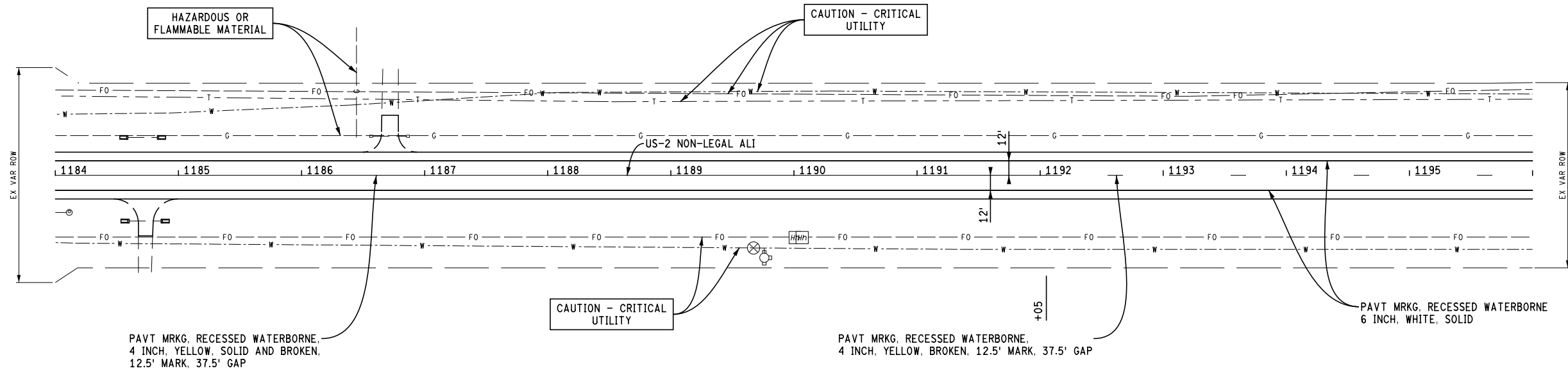
DRAWING SHEET
 US-2 PVMK 016 SECT 1 96

SECTION 21
T43N, R34W
BATES TWP



US-2

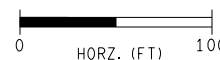
US-2



QUANTITIES THIS SHEET

JN 126829		
CAT 0001		
1105 Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow	
2400 Ft	Pavt Mrkg, Waterborne, 6 inch, White	
1105 Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	
2400 Ft	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White	
3505 Ft	Recessing Pavt Mrkg, Longit	
1200 Ft	Centerline Corrugations, Milled, HMA	
2400 Ft	Non-Freeway Shoulder Corrugations, Milled, HMA	

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



FILE: 126829_US2_1184.dgn

DATE: 08/10/18
DESIGN UNIT: KLEIKAMP
TSC: CRYSTAL FALLS

CS: 36022
JN: 126829A
201197A

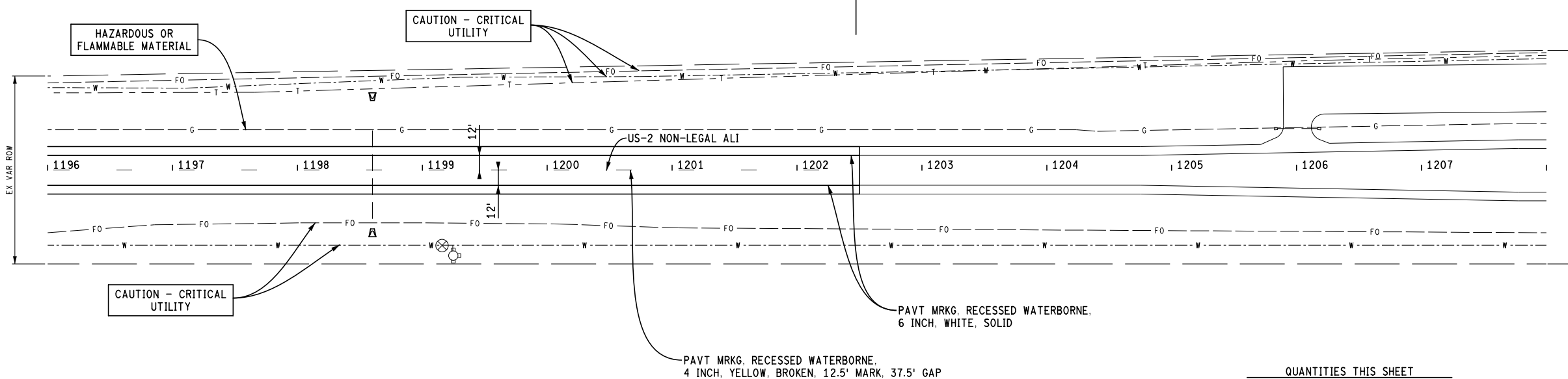
PERMANENT SIGNING/PERMANENT MARKINGS
US-2 STA 1184+00 TO STA 1196+00

DRAWING	SHEET
US-2	SECT 1
PVMK	97
017	

SECTION 21
T43N, R34W
BATES TWP



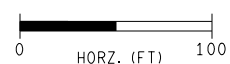
CS 36022
JN 126829A
POE STA 1202+50.00
CS MP 4.061
PR 1277904
PR MP 4.424



QUANTITIES THIS SHEET

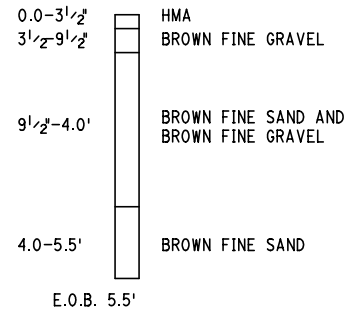
JN 126829		CAT 0001	
163	F+	Pavt Mrkg, Waterborne, 4 inch, Yellow	
1300	F+	Pavt Mrkg, Waterborne, 6 inch, White	
163	F+	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	
1300	F+	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White	
1463	F+	Recessing Pavt Mrkg, Longit	
650	F+	Centerline Corrugations, Milled, HMA	
1300	F+	Non-Freeway Shoulder Corrugations, Milled, HMA	

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

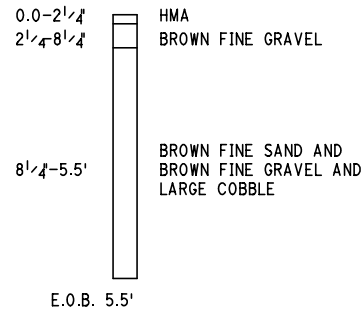


DATE: 08/10/18	CS: 36022	PERMANENT SIGNING/PERMANENT MARKINGS	DRAWING	SHEET
DESIGN UNIT: KLEIKAMP	JN: 126829A	US-2 STA 1196+00 TO STA 1208+00	US-2	SECT 1
TSC: CRYSTAL FALLS	201197A		PVMK	98
FILE: 126829_US2_1196.dgn			018	

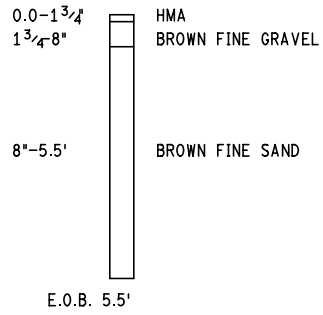
BORING HOLE: #1
 LOCATION: I-75 BS STA 1088+00
 OFFSET: 22' RT



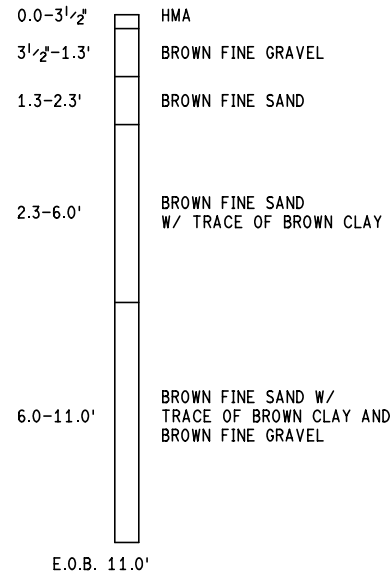
BORING HOLE: #2
 LOCATION: I-75 BS STA 1097+00
 OFFSET: 22' RT



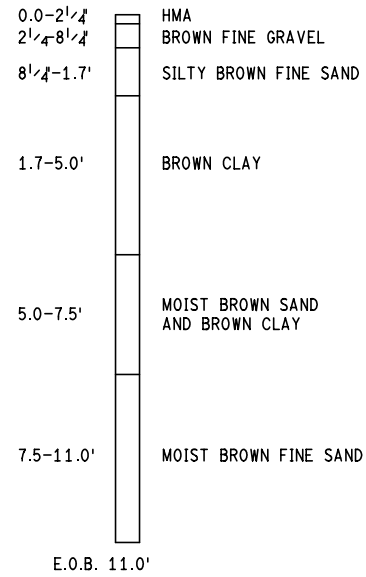
BORING HOLE: #3
 LOCATION: I-75 BS STA 1105+86
 OFFSET: 22' RT



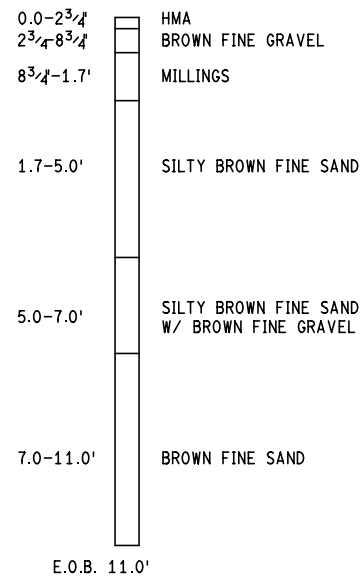
BORING HOLE: #4
 LOCATION: I-75 BS STA 1155+11
 OFFSET: 15' LT



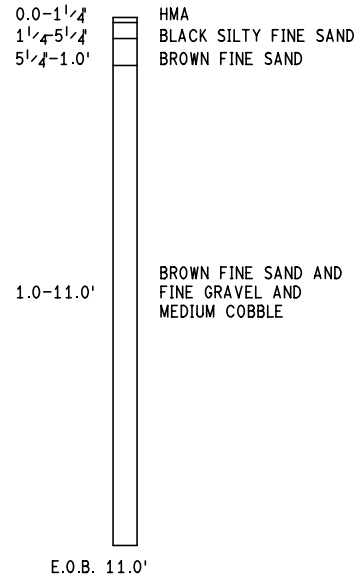
BORING HOLE: #5
 LOCATION: I-75 BS STA 1155+11
 OFFSET: 16' RT



BORING HOLE: #6
 LOCATION: I-75 BS STA 1156+91
 OFFSET: 15' RT



BORING HOLE: #7
 LOCATION: I-75 BS STA 1156+91
 OFFSET: 15' LT



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



NO SCALE

DATE: 08/10/18	CS: 36022	LOG OF BORINGS	DRAWING	SHEET
DESIGN UNIT: KLEIKAMP	JN: 126829A		US-2 BORING 001	SECT 1
FILE: 126829_Boring_001.dgn	TSC: CRYSTAL FALLS			99

CORE HOLE: C13
 LOCATION: US-2 STA 1014+00
 OFFSET: 23' LT

DEPTH (INCH)	DESCRIPTION
0-4 ^{1/4}	HMA

CORE HOLE: C14
 LOCATION: US-2 STA 1019+00
 OFFSET: 24' LT

DEPTH (INCH)	DESCRIPTION
0-4 ^{3/4}	HMA

CORE HOLE: C15
 LOCATION: US-2 STA 1025+87
 OFFSET: 23' LT

DEPTH (INCH)	DESCRIPTION
0-4 ^{1/4}	HMA
4 ^{1/4} -13"	CONCRETE

CORE HOLES: C16-C20
 LOCATION: US-2 STA 1034+08

DISTANCE	€		RT		
	18'	6'	6'	20'	51'
HMA	2 ^{7/8}	4 ^{7/8}	4"	6"	3"
CONC			8 ^{1/2}		

CORE HOLES: C21-C24
 LOCATION: US-2 STA 1055+52

DISTANCE	LT		€		RT	
	33'	7'	22'	54'		
HMA	4"	3 ^{1/2}	6 ^{1/2}	3"		

CORE HOLES: C25-C28
 LOCATION: US-2 STA 1067+33

DISTANCE	LT		€		RT	
	18'	7'	8'	21'		
HMA	2 ^{1/2}	5 ^{1/2}	3 ^{3/4}	7 ^{1/2}		

CORE HOLES: C29-C33
 LOCATION: US-2 STA 1076+04

DISTANCE	LT		€		RT	
	18'	10'	4'	18'	45'	
HMA	11"	6"	5"	8 ^{1/2}	2 ^{3/4}	

CORE HOLE: C34
 LOCATION: US-2 STA 1084+79
 OFFSET: 43' LT

DEPTH (INCH)	DESCRIPTION
0-4"	HMA

CORE HOLES: C37-C39
 LOCATION: US-2 STA 1088+00

DISTANCE	€		RT	
	7'	16'	47'	
HMA	3 ^{1/4}	2 ^{1/2}	2 ^{3/4}	

CORE HOLES: C40-C41
 LOCATION: US-2 STA 1105+86

DISTANCE	LT		€	
	15'	7'		
HMA	3"	12"		

CORE HOLES: C42-C43
 LOCATION: US-2 STA 1131+07

DISTANCE	€		RT	
	5'	15'		
HMA	3"	1 ^{1/2}		
CONC	8 ^{1/2}			

CORE HOLES: C44-C45
 LOCATION: US-2 STA 1138+83

DISTANCE	LT		€	
	37'	18'		
HMA	2 ^{1/2}	3"		

CORE HOLE: C46
 LOCATION: US-2 STA 1148+60
 OFFSET: 28' RT

DEPTH (INCH)	DESCRIPTION
0-3"	HMA

CORE HOLES: C47-C50
 LOCATION: US-2 STA 1156+00

DISTANCE	LT		€		RT	
	84'	22'	5'	89'		
HMA	1 ^{1/2}	2 ^{1/4}	3"	2 ^{1/2}		
CONC			7 ^{3/4}			

CORE HOLES: C51-C54
 LOCATION: US-2 STA 1182+60

DISTANCE	LT		€		RT	
	39'	6'	17'	45'		
HMA	2 ^{3/4}	9 ^{1/8}	3 ^{1/2}	2 ^{1/4}		

CORE HOLES: C55-C56
 LOCATION: US-2 STA 1191+79

DISTANCE	LT		€	
	17'	5'		
HMA	3 ^{1/2}	3 ^{1/2}		

CORE HOLES: C57-C60
 LOCATION: US-2 STA 1201+69

DISTANCE	LT		€		RT	
	16'	8'	7'	16'		
HMA	2 ^{1/4}	2 ^{1/2}	3 ^{1/2}	2 ^{1/2}		
CONC		8 ^{1/2}				

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



NO SCALE

DATE: 08/10/18	CS: 36022
DESIGN UNIT: KLEIKAMP	JN: 126829A
TSC: CRYSTAL FALLS	201197A
FILE: 126829_Boring_002.dgn	

LOG OF BORINGS

DRAWING	SHEET
US-2 BORING 002	100

SECT 1