



MEETING MINUTES

Groundbreaking by Design.

Project: U.S. 460 – Section 8A – Pike County, KY

Purpose: Pre-Bid Meeting – Item No. 12-263.80

Place: KYTC Central Office, Conference Room 107, Frankfort, KY

Meeting Date: February 6, 2014

Prepared By: Larry W. Ginthum – Qk4

In Attendance:

Michael Loyselle	FHWA
John Callihan	FHWA
Bill Greene	KYTC – Plan Processing
Dee McElmurray	KYTC – Plan Processing
Vibert Forsythe	KYTC
Derek Adams	KYTC
Diana Radcliffe	KYTC
Scott Tingle	KYTC
Randy Crawford	KYTC – Construction Procurement
Robert Hoagland	KYTC – Construction Procurement
John Michael Johnson	District 12
Sam Hale	District 12
Shawn Ray	District 12
Tim Hill	Hi-View, LLC
Todd Thatcher	Beaver Excavating Co.
Mike Lively	Vecellio & Grogan, Inc.
Rob Williams	Vecellio & Grogan, Inc.
Joe Mattlin	Vecellio & Grogan, Inc.
Andy Patrick	Bizzack Construction, LLC
Stewart Gaither	Bizzack Construction, LLC
Andy Rhodes	Kokosing Construction Co.
Lee Anderson	Elmo Greer and Sons, LLC
David Lawman	Kanawha Stone Co.
Mike Evans	Kanawha Stone Co.
David Blanton	Greer Mining
David Lindeman	Palmer Engineering
Steve Arnold	QK4
Larry W. Ginthum	QK4

A Mandatory Pre-Bid Meeting was held in the KYTC Central Office building on Thursday, February 6, 2014 at 1:30 pm to discuss US 460 - Section 8A and the coordination with US 460 – Section 8B currently under construction. Section 8A (0.881 miles) begins east of the existing bridge over Beaver Creek Road (KY 1373) at station 847+00 and ends east of Lick Log Road at station 893+50. Project plans, cross sections, and roll exhibits were available at the meeting for viewing. The following items were discussed:



- I. **Overview** - John Michael Johnson gave a brief overview of the project and described that this project will be Grade, Drain, and Incidental Surfacing only. Beaver Creek Road (KY 1373) is to be resurfaced from Lick Log Road (approx. 2.76 miles) to KY 80 with 1 ¼" asphalt surface at engineer's discretion. A Surfacing Plans letting will follow in subsequent years.
- II. **Potential Excess Material (Waste) Sites on Section 8A** – Half-scale cross sections were handed out depicting potential waste sites (2:1 fill slopes) in Section 8A above and below the proposed roadway. Following items were discussed in detail:
 - Section 8A has approximately 3.5 million cubic yards of excavation, without shrink or swell; 1.57 million cubic yards of which is waste.
 - Initially, waste from the entire project was to be placed in the Section 8B Wolfpen Excess Material Site that is designed to hold approximately 2.6 million cubic yards of waste. Kokosing, the contractor on Section 8B, indicated that there would be enough material from Section 8B to fill the Wolfpen site to the designed elevation, so contractors for Section 8A were instructed to bid wasting all excess material on site. If additional material is required in the Wolfpen Excess Material Site to meet design elevations, or if the KYTC requests additional material be added to raise the waste site above design elevation, the contractor must haul Section 8A material and will be permitted to submit a change order to the KYTC.
 - Contractors were instructed to submit a waste site plan to the KYTC for approval and the plan should include embankment foundation benching, in solid rock, where applicable. The benching is a requirement but will not be a pay item.
 - It was noted that the KYTC does not own all the property above the proposed roadway and the contractor must negotiate with the property owner to fill on their property.
 - A colored set of maps are attached that shows the properties that KYTC owns and has easements on. Yellow color depicts ROW, blue depicts property owned by KYTC. Green depicts temporary easements. No fill may be placed on the easement areas without the consent of the property owner.
- III. **Construction Access to Project** – Access to Section 8A will be the use of Lick Log Road off Beaver Creek Road (KY 1373) through Parcel No. 822. The KYTC owns this property. Contractor shall add Bid Item to remove remainder of Lick Log Road to tie-in with Beaver Creek Road including the existing structure (tank car) in Beaver Creek upon completion of project. The existing bridge (Mainline Sta. 835+12 to Sta. 845+74 EB, Sta. 835+52 to Sta. 845+93 WB) over Beaver Creek may not be used for heavy loads and will have limited use as specified in attached Special Note for Existing Bridge Use and Protection.
- IV. **Tree Cutting Restrictions** – All tree cutting must occur between October 16th and March 31st. Mitigation fees exceeding \$3,000 an acre will be assessed if trees are cut between April 1st and October 15th.
- V. **Parcels No. 819, 822, & 825** – Nancy May has been relocated. The KYTC will demolish the existing structures on the May property.
- VI. **Utilities** – AEP Transmission lines cross the proposed centerline at approximate station 869+00. The poles south of the proposed roadway have been relocated, surveyed, and plotted on the current plans. Two of the poles appear to still be near or inside the proposed disturb limits. The top of the cut may need to be modified so that the poles are not impacted. Contractor shall discuss this with the Resident



Engineer and AEP Transmission. Contractor should take extreme caution when working near the relocated lines and pole as per AEP Transmission Note attached to these minutes. Contractor shall coordinate with AEP any work under or near transmission lines and poles. It was noted, and also included in attached note, that aerial utility companies have rake-outs to do on Nancy May and other recently purchased parcels along Beaver Creek Road and the utilities will be abandoned with no replacement by May 1, 2014.

VII. Miscellaneous

- Kokosing Construction, the contractor for Section 8B, indicated that all work will be completed by November 30, 2014.
- Two handouts were given to meeting attendees and are attached to meeting minutes:
 - Special Note for Existing Bridge Use and Protection
 - Cooperation by Contractor

VIII. Questions

1. Will cutting of trees be permitted between October 16th and March 31st?

Yes, mitigation fee of \$3,000+ an acre will be assessed if cut between April 1st and October 15th.

2. Are all houses gone below proposed fill and Beaver Creek Road?

Yes, houses on parcels 804, 809, 812, and 813 have been removed. It was noted that the KYTC owns the property between the proposed roadway and Beaver Creek Road (KY 1373).

3. Are there any stream impacts from the potential waste site areas?

*Fills above proposed roadway have no stream impacts; no jurisdictional streams.
Fills below proposed roadway shall not disturb Beaver Creek.*

4. Why are there temporary easement areas on the Right of Way Summary sheet R14?

Parcels No. 801-804, 806, and 812 have temporary easements for blasting and potential rock fall during construction. Parcels No. 807, 809, and 813 show original easement for building removal but have since been excess purchased. The remainders of these parcels have not been purchased.

5. Who owns the coal if encountered outside the proposed right of way?

Contractor must negotiate with mineral property owner.

6. Will embankment foundation benching for the potential waste sites in Section 8A be required?

Yes, embankment foundation benching will be required as applicable in the proposed fill areas and must be in solid rock. The KYTC will add a note that embankment foundation benching will be bid but not a pay item. No core logs for proposed fill area benches were performed; contractor must refer to Geotechnical sheets R29-R39.



END OF MINUTES

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File ID: Pre-Bid Meeting Sect 8A 2-6-14.doc

**SPECIAL NOTE
FOR
EXISTING BRIDGE USE AND PROTECTION**

**Pike County
US 460 Section 8A
Item No. 12-263.80**

The existing US 460 bridge over Beaver Creek begins at Mainline Station 835+12 EB and Station 835+52 WB and ends at Mainline Station 845+74 EB and Station 845+93 WB.

Prior to use, the Department of Highways will conduct an inspection of the bridge to document its condition. Contractor's representative shall be present during the inspection. Contractor shall contact Kentucky Transportation Cabinet District 12 Office, at least 30 days prior to the beginning of use to arrange for the bridge inspection.

Contractor is responsible to maintain the bridge without damage during the contract period. Contractor shall clean ridge deck drains as necessary to ensure they function properly throughout the contract period.

Once the project is completed, contractor shall return the bridge to the condition documented in the pre-haul inspection. Contractor is responsible to make any and all repairs necessary to return the bridge to its pre-haul condition at the contractor's expense.

105.10 HAULING.

105.10.01 Hauling to Projects. According to Subsections 107.01 and 109.01.05, perform the hauling of materials and all other hauling in conjunction with the construction of a project so as not to violate any of the truck size, gross weight, axle weight, or tire width limitations provided by law or regulation, such as KRS 189.221, KRS and width limitations provided by law or regulation, such as KRS 189.221, KRS all other regulatory statutes relating to the provisions outlined in this section.

105.10.02 Hauling Within Project Limits.

- A) **Grade and Drain Projects.** The Department will not restrict vehicles operating at any phase of grade and drain construction as to any type of equipment or loading except as provided under Subsection 207.03.03 and as specified hereinafter for Hauling over Structures.
- B) **Hauling Over Structures.** Inspect and examine all structures, including drainage structures, existing and newly constructed, to determine whether or not any structure has been damaged before beginning hauling. For damaged structures, request the Department to appraise the existing damage and grant a release, in writing, from liability for the damage disclosed, or otherwise stand liable. Repair all damage to the structure, including joints that may be incurred as a result of the hauling operations, at no expense to the

Department. Submit for the Engineer's review and approval all proposed methods to protect structures prior to the start of hauling.

The Department additionally limits the operation of construction vehicles over structures as follows:

- 1) obtain written approval from the Engineer before any off-highway vehicle is operated, empty or loaded, over a structure;
- 2) do not exceed the design load limits or rated load limits of the structure based on the equipment's tire size, wheel base, axle weight, and axle spacing, without approval from the Engineer;
- 3) consider temporary dead loads of stored materials, stationary equipment, formwork/falsework, etc. when determining the load limits of the structure;
- 4) limit the movement of off-highway construction vehicles across bridges to one-lane operation centrally aligned with the bridge and at intervals between vehicles no less than 100 feet;
- 5) maintain bridge floors free from spilled materials, lumber, or any other impact producing obstruction;
- 6) do not use an earth cushion on bridge;
- 7) prior to hauling construction loads over a bridge, construct temporary approaches 100 feet in length with the 50 feet adjacent to each end of the bridge constructed to the finished grade elevation of the bridge. Maintain temporary ramps and approaches, at the direction of the Engineer, to minimize the impact of moving construction loads onto the highway structure;
- 8) for off-highway construction vehicles on the approaches and bridges, do not exceed speed of 10 mph; and
- 9) protect from overloads, by temporary fill or by other means, culverts, regardless of span, pipe culverts, and other items which are covered or which are to be covered by fill or backfill.

105.06 COOPERATION BY CONTRACTOR. Maintain copies of the Plans and Specifications at the site of the work at all times and furnish copies to each foreman. Require each foreman to have with him on the site, at all times, a copy of that part of the Plans and Specifications applying to the work he is directing. Be present or have a representative present on the project at all times, when construction is in progress, to receive and carry out such instructions as the Engineer may give. Provide reasonable facilities to enable the Engineer to inspect the workmanship and materials entering into the work, and cooperate in setting and preserving survey stakes, bench marks, etc., and in all other things necessary to satisfactorily complete the work as contemplated.

When the Department lets separate contracts within the limits of any one project or for adjacent projects, conduct the work so as not to interfere with or hinder the progress or completion of the work being performed by other contractors. Cooperate with contractors working on the same project or adjacent projects. In case of a dispute with other contractors, the Engineer will arbitrate and will make a final and binding decision. Progress work according to specification 108.04.

The Contractor shall assume all liability, financial or otherwise, in connection with the Contract and shall protect and save harmless the Department from any and all damages or claims that may arise because of inconvenience, delay, or loss experienced by him because of the presence and the operations of other contractors working within the limits of the same project. The Contractor shall assume all responsibility for all work not completed or accepted on the Contract because of the presence and operations of the other contractors.

As far as possible, arrange the work and place and dispose of the materials being used so as not to interfere with the operations of the other contractors within the limits of the same project or on adjacent projects. Join the work with that of the other contractors in an acceptable manner, and perform it in proper sequence with the work of the other contractors.

Informal Partnering is encouraged between the Department and Contractor. The partnering process is intended to encourage the foundation of a cohesive partnership between the Department and the Contractor. This partnership will be structured to draw on the strengths of each organization to identify and achieve reciprocal goals within the bounds of the Contract. Common objectives will be structured to meet each project's needs, but will include such basic criteria as effective and efficient contract performance, safety, and contract completion on schedule and within budget.

The Contractor and the Department should both be aware that the partnering process includes more than their relationship. The "Team" should also include utility companies, local officials, emergency personnel such as fire and police, and anyone else for which the project effects or who could affect the progress of the project.

The partnering process in no ways alters the Contract itself. Also, the establishment of a partnering process or charter for a project will not change the legal relationship of the parties to the contract nor relieve either party from any of the terms of the contract.

Scheduling on-site project meetings at a regular or 'as-needed' basis is encouraged to discuss and resolve issues regarding the project throughout the duration of the Contract. Contractor, subcontractor, and Department personnel should attend these meetings, and if need be, any appropriate persons needed to discuss specific issues. Record the minutes of each meeting and distribute to all partners. It will be the responsibility of the Contractor and the Department to act equally in hosting these meetings.

Informal Partnering will not be measured for payment and the Department will consider all costs associated with the informal partnership incidental to the project.

12-263.80

Pike County, US 460 Section 8A Pre-Bid Meeting

Feb. 6, 2014, 1:30 PM



KYTC and Consultants

Name	Representing	Telephone	Email
1. JOHN M. JOHNSON	KYTC		JOHN.M. JOHNSON @ KY.GOV
2. DAVID LINDEMAN	PARMSR ENG.	853-744-1218	d.lindeman @ palmetto.net.com
3. Bill Greene	KYTC	502-564-3280	Bill.Greene @ KY.GOV
4. John Callihan	FHWA	502-233-6757	john.callihan @ dot.gov
5. Michael Loysele	FHWA	502-233-6748	michael.loysele @ dot.gov
6. DEE McELMURRAY	KYTC	606.433.7738	shawn.ray @ kcy.gov
7. Shawn Ray	KYTC 012		
8. Vibert Foxsynth	KYTC	502 564 4780	Vibert.Foxsynth @ ky.gov
9. Brett Adams	KYTC	502-564-7250	brett.adams @ ky.gov
10. DIANA RADCLIFFE	KYTC	502-782-5578	diana.radcliffe @ ky.gov
11. Samuel Hale	KYTC DIZ	606.433.7791	Samuel.hale @ ky.gov
12. Randy Crawford	KYTC - CP	502-890-5000	Randy.Crawford @ KY.GOV
13. Robert Hoagland	KYTC - CP - ASST Dir	502 782-4887	Robert.hoagland @ KY.gov
14. Scott Tingle	KYTC	502-782-4914	Scott.tingle @ ky.gov
15. Larry W Gintum	QK4	502-585-2222	lgintum @ QK4.com
16. Steve Arnold	QK4	502-585-2212	sarnold @ QK4.com
17.			
18.			
19.			
20.			

12-263.80

Pike County, US 460 Section 8A Pre-Bid Meeting

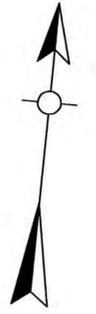
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Contractors

Name	Representing	Telephone	Email
1. Tim Hill	Hi-View, LLC	606-523-9670	t.hill@newwave.com.net
2. Todd Thatcher	Beaver Excavating Co.	(330) 268-5141	todd.thatcher@beaverexcavating.com
3. Lee Anderson	Elmo Grissie & Sons, LLC	606-843-6136	lamberson@elmoagreesons.com
4. David Blanton	Greer Mining	606-843-9631	david.blanton@greermining.com
5. ANDY PATRICK	BIZZACK CONST., LLC	606-422-1029	APATRICK@BIZZACKCONSTRUCTION.CO
6. STEWART GAETHER	BIZZACK	606-454-0100	sgaither@bizzackconstruction.co
7. Andy Rhodes	Kokosing Const. Co. Inc.	614.228.1029	sar@kokosing.biz
8. Rob Williams	Vecellio & Grogan, Inc.	304.252.6575	Robert.Williams@VecellioGrogan.com
9. Mike Lively	Vecellio & Grogan, Inc	304-252-6575	m.lively@vecelligrogan.com
10. Joe Martin	Vecellio & Grogan, Inc.	304-999-6113	J.Martin@Vecelligrogan.com
11. DAVID LAWMAN	KANAWHA STONE CO.	304-755-8271	david.lawman@kanawhastone.com
12. Scott Tingle	KYTC - Const Procurement	782-4914	scott.tingle@ky.gov
13. Robert Hoogland	KYTC - Construction Procurement	502-782-4887	robert.hoogland@ky.gov
14. MIKE EVANS	KANAWHA STONE CO.	304-755-8271	MIKE.EVANS@KANAWHA STONE.COM
15.			
16.			
17.			
18.			
19.			
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12-263.80



DITCH CONST. NOTES - LT.

STATIONS	SIZE / SHAPE	LINING	QUANTITY	D	T
847+00 TO 849+50	NORMAL DT.	NATURAL ROCK	-	-	-

DITCH CONST. NOTES - RT.

STATIONS	SIZE / SHAPE	LINING	QUANTITY	D	T
839+00 TO 844+50	2' F.B. SPEC. DT.	CLASS IV	0.0 TONS	2.0'	2.0'
844+50 TO 845+50	2' F.B. SPEC. DT.	NATURAL ROCK	-	-	-
845+50 TO 849+50	NORMAL DT.	NATURAL ROCK	-	-	-

P.I. 849+91.80
 D = 81° 52' 08" Rt.
 C = 1° 08' 45"
 Ts = 4476.96'
 Ls = 280.00'
 Lc = 6864.40'
 f = 1° 36' 15"
 L.T. = 186.67'
 S.T. = 93.34'
 R = 5000.00'
 Es = 1619.35'
 e = 3.40%
 Runoff = SEE CROSS SECTIONS
 Runout = SEE CROSS SECTIONS
 Design Speed = 60 mph

LT. STA. 846+85.00 TO
 LT. STA. 849+50.00
 CONST. 266 L.F. ~ STEEL
 "W" BEAM GUARDRAIL &
 (1) GUARDRAIL CONNECTOR
 TO BRIDGE END TYPE A

STA. 000+00.00 TO STA. 846+92.3
 CONST. 000.0 L.F. ~ STD. CONCRETE
 MEDIAN BARRIER TYPE 14C1

STA. 847+17.3 TO STA. 848+92.4
 CONST. 175.1 L.F. ~ STD. CONCRETE
 MEDIAN BARRIER TYPE 14C1

STA. 849+17.4 TO STA. 849+50.0
 CONST. 32.6 L.F. ~ STD. CONCRETE
 MEDIAN BARRIER TYPE 14C1

RT. STA. 845+77.00 TO
 RT. STA. 847+77.00
 CONST. 195 L.F. ~ STEEL
 "W" BEAM GUARDRAIL &
 (1) GUARDRAIL END TREATMENT
 TYPE 2A & (1) GUARDRAIL CONNECTOR
 TO BRIDGE END TYPE A-1

RIGHT OF WAY PLANS

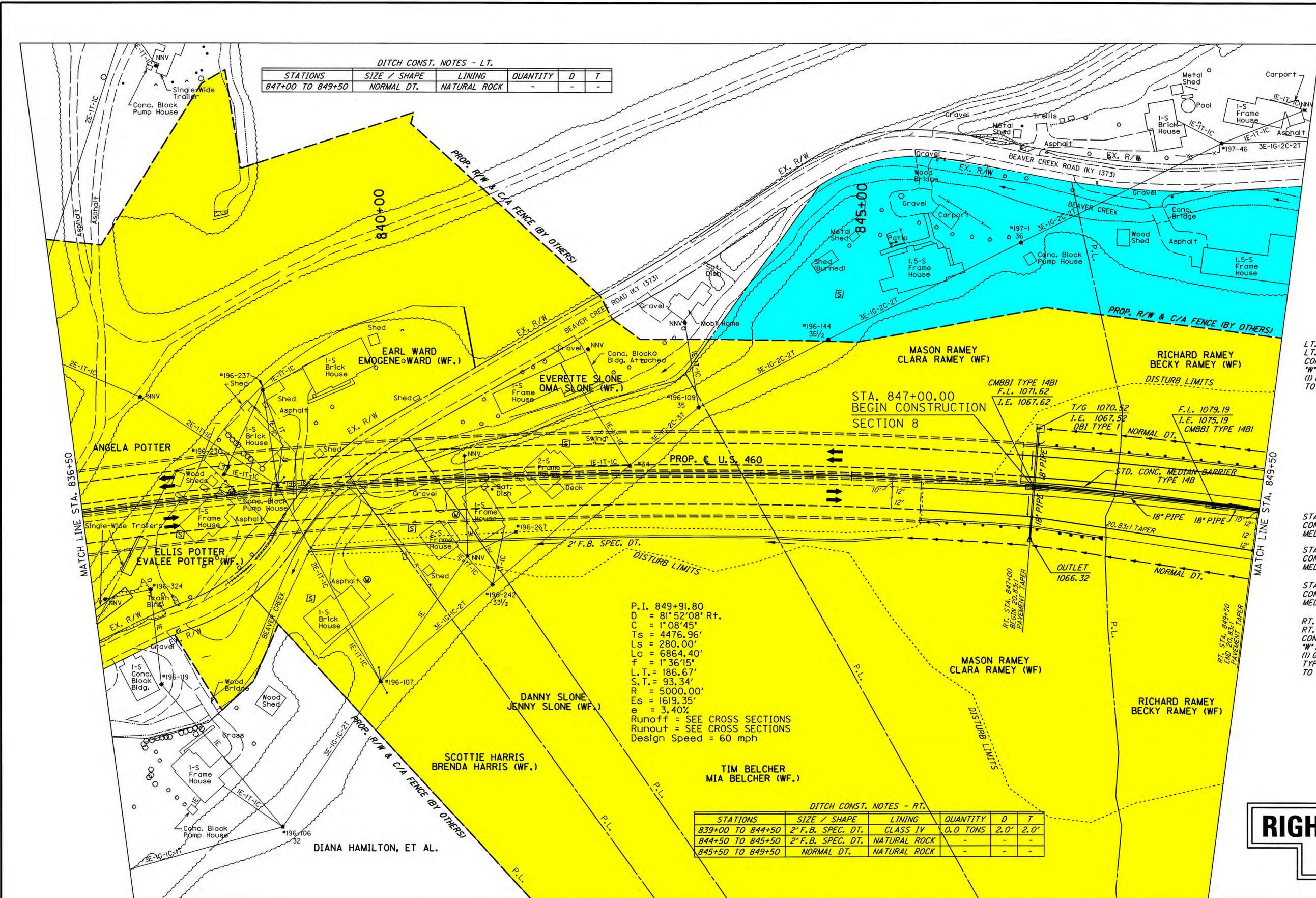
US 460
 STA. 836 + 50 TO STA. 849 + 50
 SCALE : 1"=50'

MATCH LINE SHEET 4A

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 CHECKED BY: _____ DATE: _____
 APPROVED BY: _____ DATE: _____

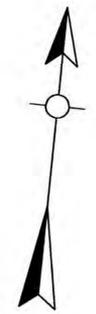
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 I-92
 FORM NO. 2

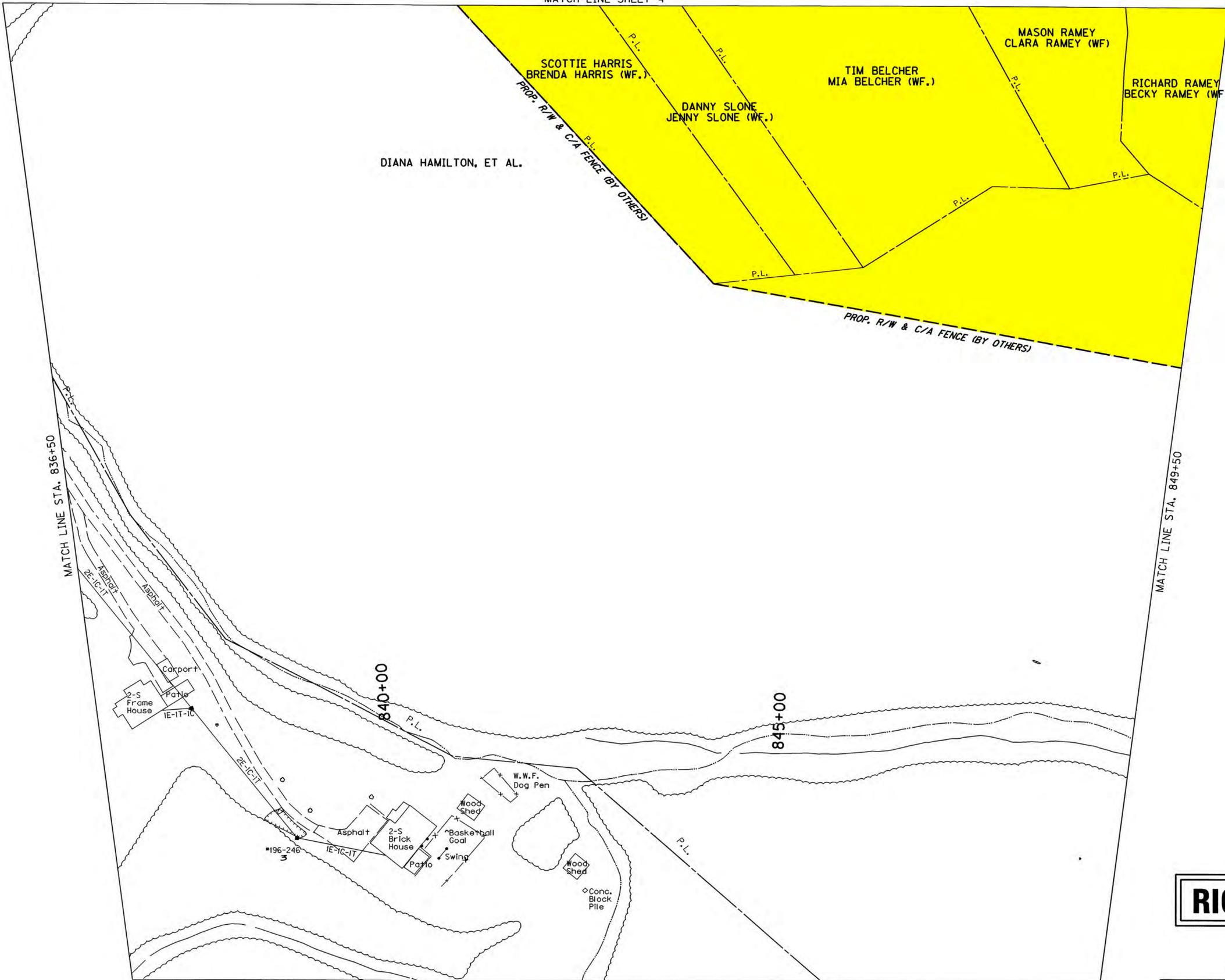


COUNTY OF	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
PIKE	2003	4A	36

12-263.80



MATCH LINE SHEET 4



RIGHT OF WAY PLANS

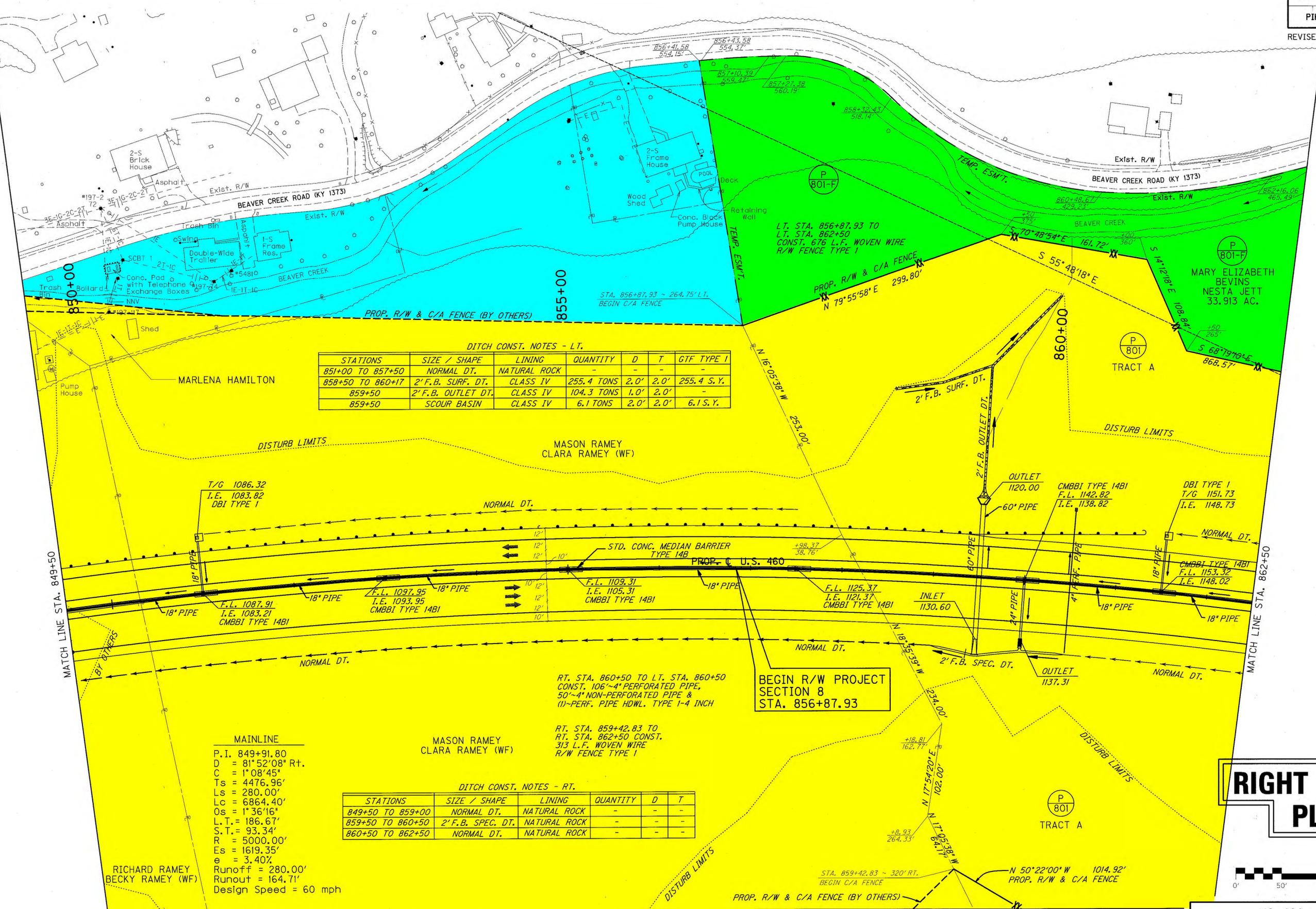
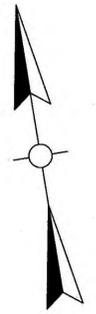
US 460
 STA. 836 + 50 TO STA. 849 + 50
 SCALE : 1"=50'

PREPARED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

VENDOR'S NAME
 I-92
 FORM NO. 2

Cell Library: roadway.cel
 Cell Name: sp
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PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____



DITCH CONST. NOTES - LT.

STATIONS	SIZE / SHAPE	LINING	QUANTITY	D	T	GTF TYPE I
851+00 TO 857+50	NORMAL DT.	NATURAL ROCK	-	-	-	-
858+50 TO 860+17	2' F.B. SURF. DT.	CLASS IV	255.4 TONS	2.0'	2.0'	255.4 S.Y.
859+50	2' F.B. OUTLET DT.	CLASS IV	104.3 TONS	1.0'	2.0'	-
859+50	SCOUR BASIN	CLASS IV	6.1 TONS	2.0'	2.0'	6.1 S.Y.

MAINLINE
 P.I. = 849+91.80
 D = 81' 52" 08" Rt.
 C = 1' 08" 45"
 Ts = 4476.96'
 Ls = 280.00'
 Lc = 6864.40'
 Os = 1' 36" 16"
 L.T. = 186.67'
 S.T. = 93.34'
 R = 5000.00'
 Es = 1619.35'
 e = 3.40%
 Runoff = 280.00'
 Runout = 164.71'
 Design Speed = 60 mph

DITCH CONST. NOTES - RT.

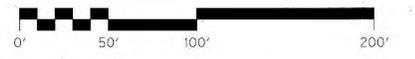
STATIONS	SIZE / SHAPE	LINING	QUANTITY	D	T
849+50 TO 859+00	NORMAL DT.	NATURAL ROCK	-	-	-
859+50 TO 860+50	2' F.B. SPEC. DT.	NATURAL ROCK	-	-	-
860+50 TO 862+50	NORMAL DT.	NATURAL ROCK	-	-	-

RT. STA. 860+50 TO LT. STA. 860+50
 CONST. 106'-4" PERFORATED PIPE,
 50'-4" NON-PERFORATED PIPE &
 (1)-PERF. PIPE HDWL. TYPE 1-4 INCH

RT. STA. 859+42.83 TO
 RT. STA. 862+50 CONST.
 313 L.F. WOVEN WIRE
 R/W FENCE TYPE I

BEGIN R/W PROJECT
 SECTION 8
 STA. 856+87.93

RIGHT OF WAY PLANS



US 460 - SECTION 8
 MAINLINE PLAN
 STA. 849+50 TO STA. 862+50

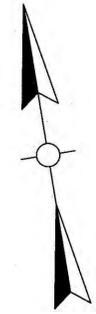
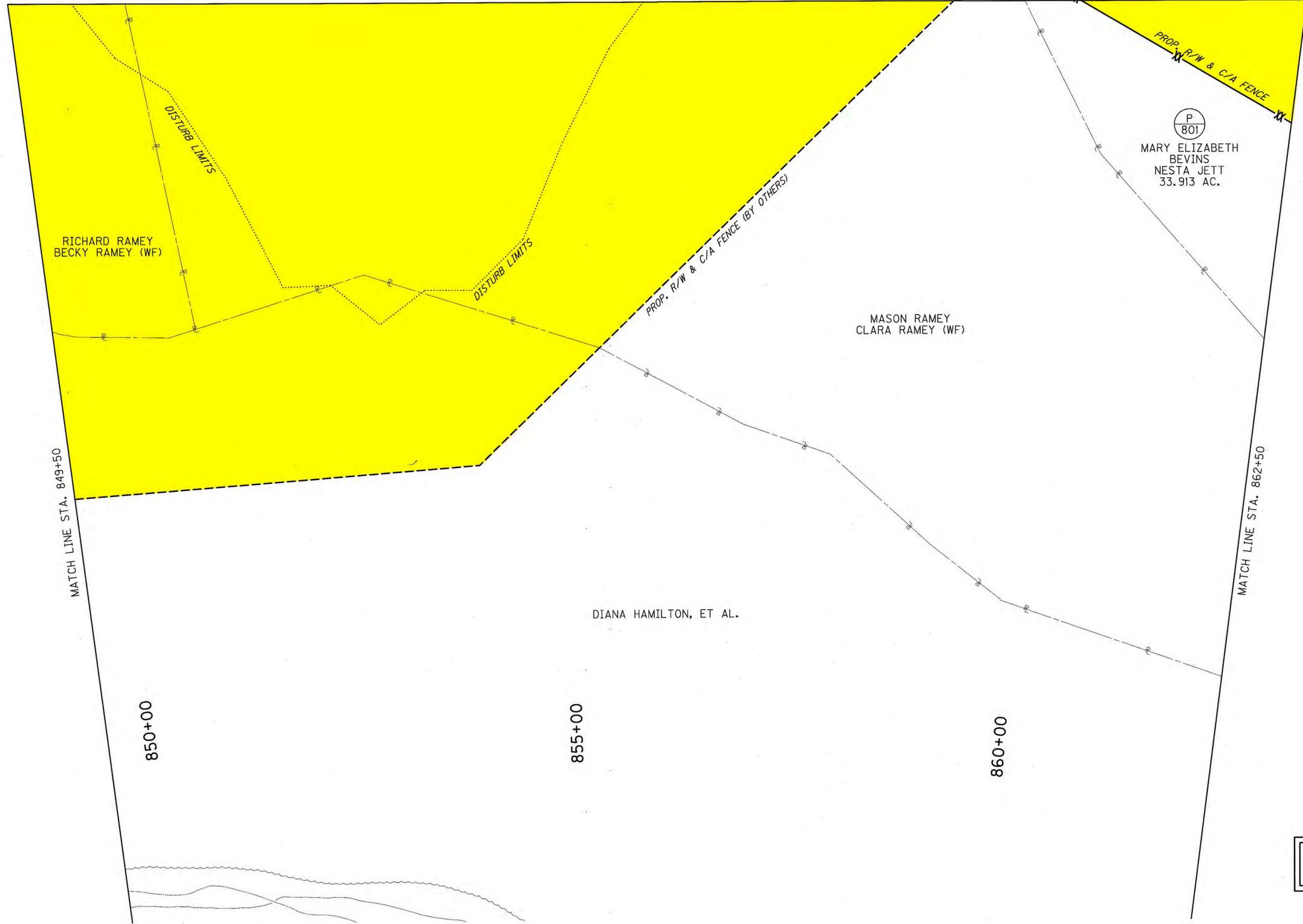
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MATCH LINE SHEET 6A

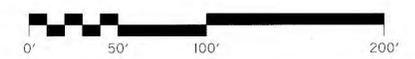
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 E-SHEET NAME:

MATCH LINE SHEET 6

PREPARED BY _____ DATE _____
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 APPROVED BY _____ DATE _____



**RIGHT OF WAY
PLANS**

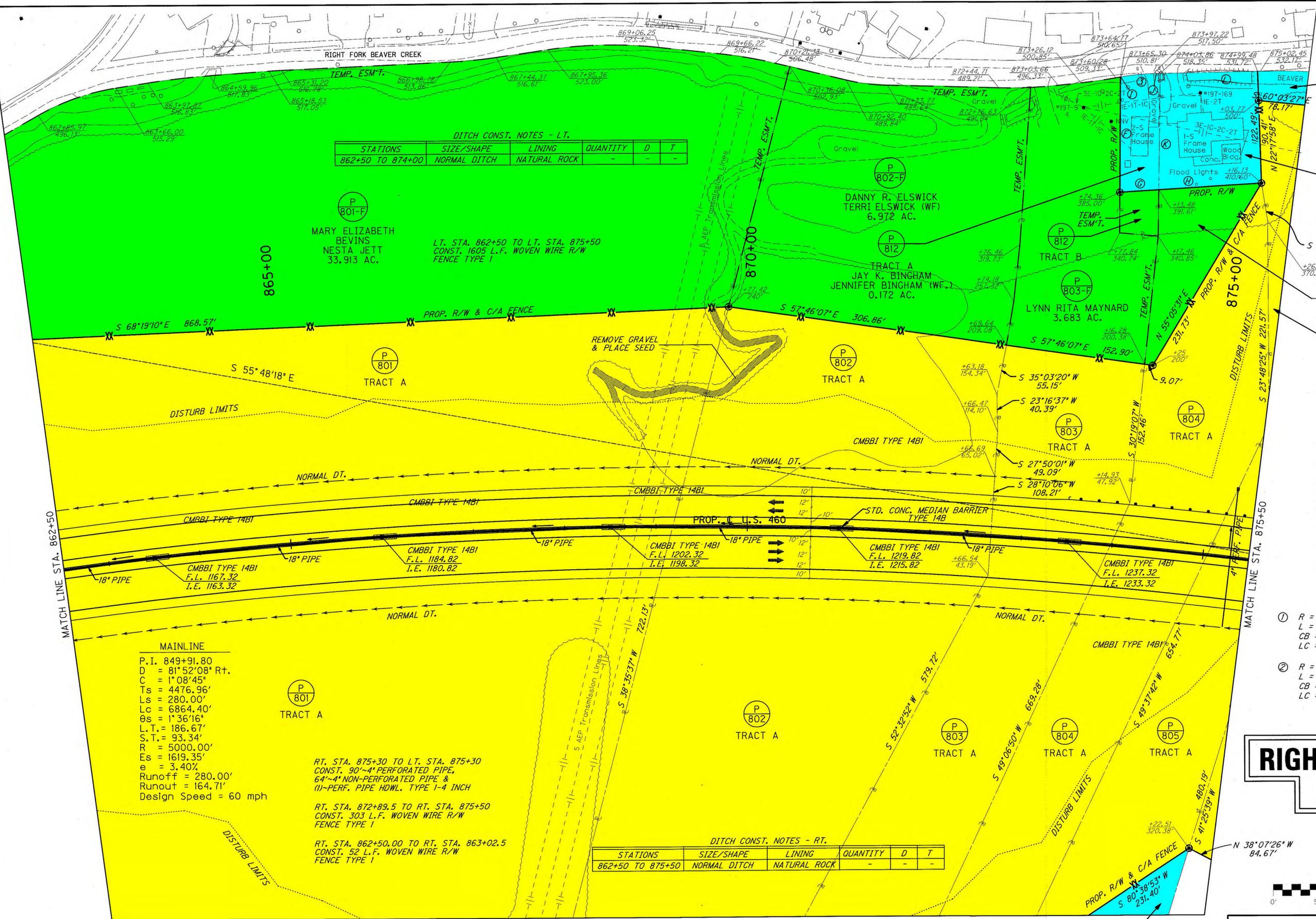


US 460 - SECTION 8
 MAINLINE PLAN
 STA. 849+50 TO STA. 862+50

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 DATE: \$\$\$DATE\$\$\$
 FILE NAME: \$\$\$design\$file\$specification\$\$\$
 E-SHEET NAME:

REVISED PLAN DATE: 9-8-11

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____



DITCH CONST. NOTES - LT.

STATIONS	SIZE/SHAPE	LINING	QUANTITY	D	T
862+50 TO 874+00	NORMAL DITCH	NATURAL ROCK	-	-	-

DITCH CONST. NOTES - RT.

STATIONS	SIZE/SHAPE	LINING	QUANTITY	D	T
862+50 TO 875+50	NORMAL DITCH	NATURAL ROCK	-	-	-

MAINLINE
 P.I. 849+91.80
 D = 81°52'08" Rt.
 C = 1'08'45"
 Ts = 4476.96'
 Ls = 280.00'
 Lc = 6864.40'
 Os = 1'36'16"
 L.T. = 186.67'
 S.T. = 93.34'
 R = 5000.00'
 Es = 1619.35'
 e = 3.40%
 Runoff = 280.00'
 Runout = 164.71'
 Design Speed = 60 mph

RT. STA. 875+30 TO LT. STA. 875+30
 CONST. 90"-4" PERFORATED PIPE,
 64"-4" NON-PERFORATED PIPE &
 (1)-PERF. PIPE HDWL. TYPE 1-4 INCH
 FENCE TYPE I

RT. STA. 872+89.5 TO RT. STA. 875+50
 CONST. 303 L.F. WOVEN WIRE R/W
 FENCE TYPE I

RT. STA. 862+50.00 TO RT. STA. 863+02.5
 CONST. 52 L.F. WOVEN WIRE R/W
 FENCE TYPE I

- Ⓐ N 33°46'59"E ~ 48.47'
- Ⓑ N 30°24'35"E ~ 62.46'
- Ⓒ N 28°15'57"E ~ 172.21'
- Ⓓ S 71°43'31"E ~ 25.11'
- Ⓔ S 75°44'31"E ~ 5.13'
- Ⓚ S 24°31'14"W ~ 126.08'
- Ⓛ N 69°21'19"W ~ 42.67'
- Ⓜ N 69°21'19"W ~ 112.50'
- Ⓝ S 75°44'31"E ~ 0.61'
- Ⓟ S 66°59'49"E ~ 7.37'
- Ⓠ S 24°59'05"W ~ 127.18'
- Ⓡ S 66°59'49"E ~ 106.51'

- ① R = 515.00'
L = 30.03'
CB = S 70°03'12"E
LC = 30.02'
- ② R = 550.00'
L = 38.56'
CB = S 73°44'01"E
LC = 38.55'
- ③ R = 235.00'
L = 35.87'
CB = S 71°22'11"E
LC = 35.83'

RIGHT OF WAY PLANS

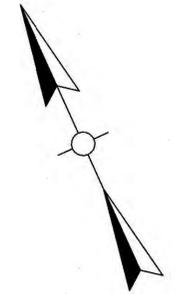
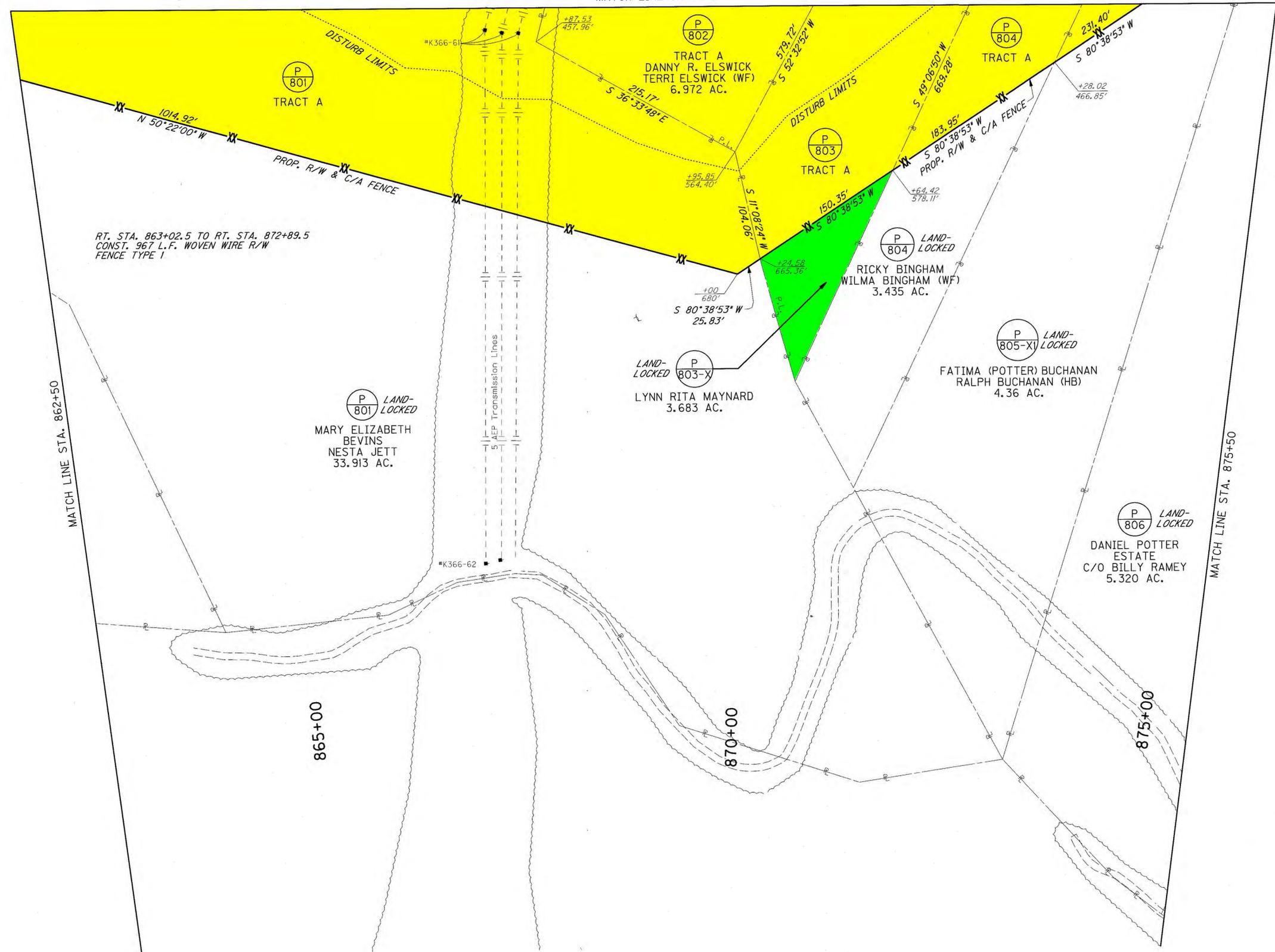


US 460 - SECTION 8
 MAINLINE PLAN
 STA. 862+50 TO STA. 875+50

USER: \$\$\$USER\$\$\$
 DATE: \$\$\$DATE\$\$\$
 FILE NAME: \$\$\$design\$filespecification\$\$\$
 E-SHEET NAME:

MATCH LINE SHEET 8A

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____



RIGHT OF WAY PLANS



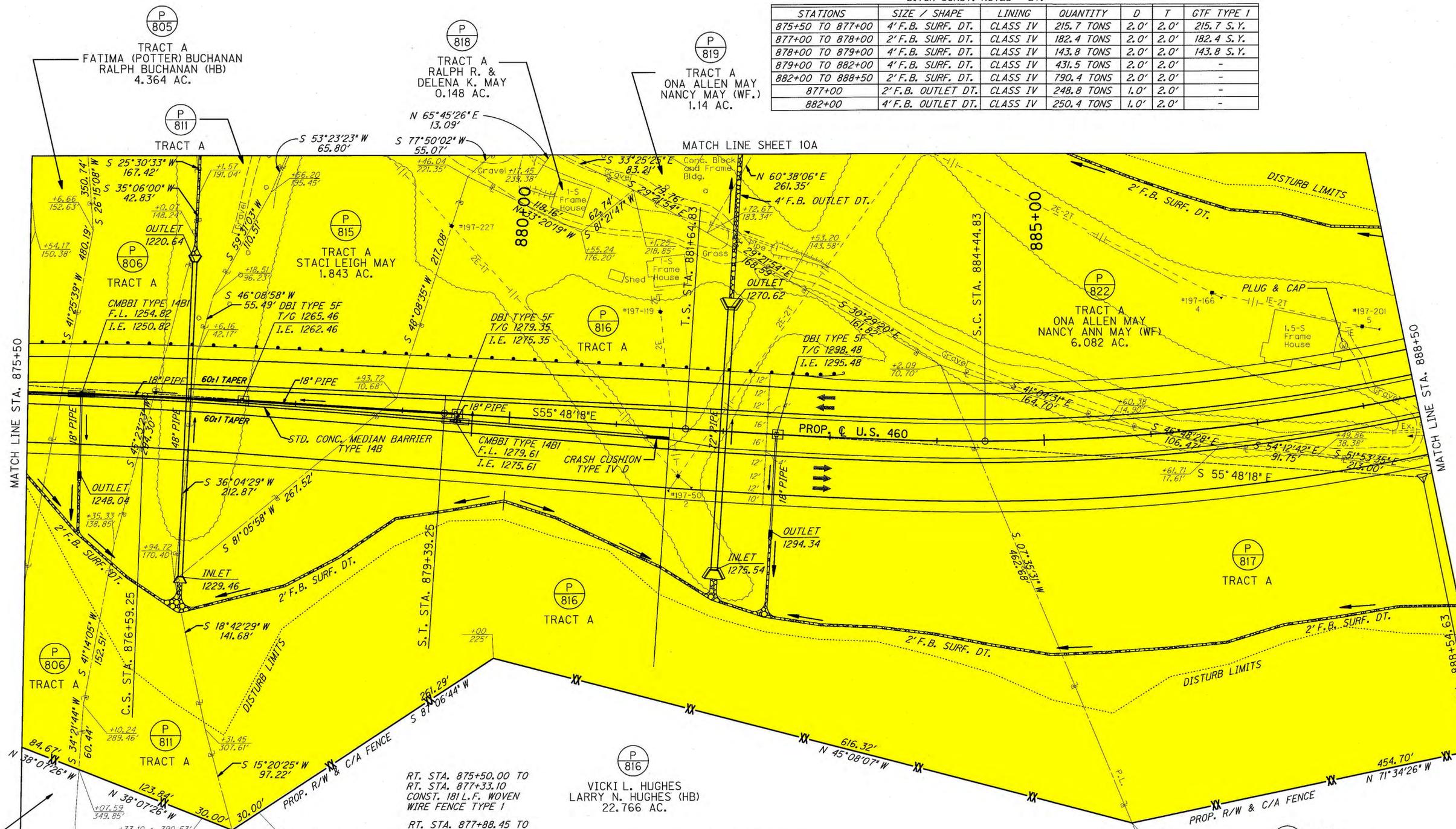
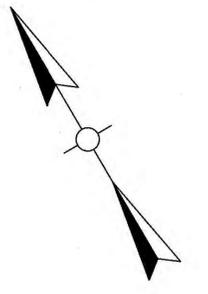
US 460 - SECTION 8
 MAINLINE PLAN
 STA. 862+50 TO STA. 875+50

USER: \$\$\$USER\$\$\$
 DATE: \$\$\$DATE\$\$\$
 FILE NAME: \$\$\$design\$filespecification\$\$\$
 E-SHEET NAME:

DITCH CONST. NOTES - LT.

STATIONS	SIZE / SHAPE	LINING	QUANTITY	D	T	GTF TYPE I
875+50 TO 877+00	4' F.B. SURF. DT.	CLASS IV	215.7 TONS	2.0'	2.0'	215.7 S.Y.
877+00 TO 878+00	2' F.B. SURF. DT.	CLASS IV	182.4 TONS	2.0'	2.0'	182.4 S.Y.
878+00 TO 879+00	4' F.B. SURF. DT.	CLASS IV	143.8 TONS	2.0'	2.0'	143.8 S.Y.
879+00 TO 882+00	4' F.B. SURF. DT.	CLASS IV	431.5 TONS	2.0'	2.0'	-
882+00 TO 888+50	2' F.B. SURF. DT.	CLASS IV	790.4 TONS	2.0'	2.0'	-
877+00	2' F.B. OUTLET DT.	CLASS IV	248.8 TONS	1.0'	2.0'	-
882+00	4' F.B. OUTLET DT.	CLASS IV	250.4 TONS	1.0'	2.0'	-

PREPARED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 APPROVED BY _____ DATE _____



WATER WELLS

STATION	OFFSET	NOTE
887+91.79	LT 58.68'	PLUG & CAP

DITCH CONST. NOTES - RT.

STATIONS	SIZE / SHAPE	LINING	QUANTITY	D	T
875+50 TO 888+50	2' F.B. SURF. DT.	CLASS IV	1,765.6 TONS	2.0'	2.0'
876+00	2' F.B. OUTLET DT.	CLASS IV	36.0 TONS	1.0'	2.0'
877+00	2' F.B. INLET DT.	CLASS IV	61.9 TONS	3.0'	2.0'
882+00	2' F.B. INLET DT.	CLASS IV	34.8 TONS	3.0'	2.0'
882+50	2' F.B. OUTLET DT.	CLASS IV	53.2 TONS	1.0'	2.0'

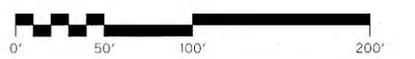
MAINLINE
 P.I. 888+54.63
 D = 30° 43' 10" Lt.
 C = 2° 51' 53"
 Ts = 689.80'
 Ls = 280.00'
 Lc = 792.31'
 θs = 4° 00' 39"
 L.T. = 186.71'
 S.T. = 93.38'
 R = 2000.00'
 Es = 75.78'
 e = 6.90%
 Runoff = 280.00'
 Runout = 81.20'
 Design Speed = 60 mph

RT. STA. 875+50.00 TO RT. STA. 877+33.10
 CONST. 181 L.F. WOVEN WIRE FENCE TYPE I

RT. STA. 877+88.45 TO RT. STA. 888+50.00
 CONST. 1,218 L.F. WOVEN WIRE FENCE TYPE I

MAINLINE
 P.I. 849+91.80
 D = 81° 52' 08" Rt.
 C = 1° 08' 45"
 Ts = 4476.96'
 Ls = 280.00'
 Lc = 6864.40'
 θs = 1° 36' 15"
 L.T. = 186.67'
 S.T. = 93.34'
 R = 5000.00'
 Es = 1619.35'
 e = 3.40%
 Runoff = 280.00'
 Runout = 164.71'
 Design Speed = 60 mph

RIGHT OF WAY PLANS



US 460 - SECTION 8
 MAINLINE PLAN
 STA. 875+50 TO STA. 888+50

USER: \$\$\$USER\$\$\$
 DATE: \$\$\$DATE\$\$\$
 FILE NAME: \$\$\$designtitle\$\$\$
 E-SHEET NAME:

WATER WELLS			
STATION	OFFSET	NOTE	REF #
877+54.11	LT 551.19'	PLUG & CAP	1
878+09.31	LT 450.20'	PLUG & CAP	2
878+43.72	LT 315.42'	PLUG & CAP	3
879+19.03	LT 305.89'	PLUG & CAP	4
879+85.09	LT 458.81'	PLUG & CAP	5

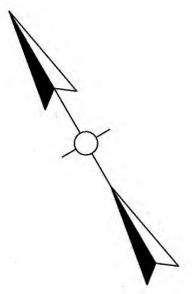
- Ⓐ S 82°13'45"E ~ 75.64'
- Ⓑ S 09°39'51"W ~ 9.95'
- Ⓒ N 74°42'29"W ~ 75.97'
- Ⓓ N 18°51'01"E ~ 52.58'
- Ⓔ S 09°39'49"W ~ 51.63'
- Ⓕ N 82°13'45"W ~ 8.40'
- Ⓖ S 09°39'47"W ~ 23.58'
- Ⓗ S 47°08'59"E ~ 69.73'
- Ⓘ S 63°31'38"E ~ 27.46'
- Ⓚ S 13°21'47"W ~ 3.22'
- Ⓛ N 62°48'34"W ~ 43.10'
- Ⓜ N 45°52'03"W ~ 52.02'
- Ⓝ S 09°39'51"W ~ 8.64'
- Ⓟ S 27°12'27"W ~ 82.10'
- Ⓠ S 23°11'28"W ~ 33.69'
- Ⓡ N 72°27'25"W ~ 16.72'
- Ⓢ N 67°13'14"W ~ 53.90'
- Ⓣ S 82°13'45"E ~ 79.52'
- Ⓤ S 01°27'34"E ~ 9.51'
- Ⓥ S 16°21'14"W ~ 8.70'
- Ⓦ S 79°45'36"E ~ 59.35'
- Ⓧ S 13°21'36"W ~ 47.82'

- Ⓟ FATIMA (POTTER) BUCHANAN
RALPH BUCANAN (HB)
4.364 AC.
- Ⓠ DANIEL POTTER ESTATE
C/O BILLY RAMEY
5.320 AC.
- Ⓡ MICHAEL W. JUSTICE
NANCY G. JUSTICE (WF)
0.120 AC.
- Ⓢ WILLIAM H. DAVIS, JR. (DECD.)
JEANA R. DAVIS (WIDOW)
0.301 AC.
- Ⓣ RAY C. ROSE
DOROTHY ROSE
0.235 AC.
- Ⓤ BOBBY COLEMAN
HELEN SUE COLEMAN (WF)
0.294 AC.

- Ⓟ VASSIE BRYANT
11.551 AC.
- Ⓠ HILLARD BELCHER
0.614 AC.
- Ⓡ HILLARD BELCHER JR.
SUSAN W. BELCHER (WF.)
0.545 AC.
- Ⓢ ONA ALLEN MAY
NANCY ANN MAY (WF)
1.139 AC.
- Ⓣ RANDY CANTRELL
1.456 AC.

- Ⓧ S 08°19'09"E ~ 25.36'
- Ⓨ S 42°49'39"W ~ 75.34'
- Ⓩ S 53°23'23"W ~ 65.80'
- ⓐ N 13°21'36"E ~ 5.59'
- ⓑ N 16°21'17"E ~ 8.70'
- ⓓ N 01°27'32"W ~ 9.51'
- ⓔ S 47°10'47"E ~ 197.23'
- ⓕ S 75°47'39"E ~ 109.27'
- ⓖ S 14°12'50"W ~ 72.69'
- ⓗ N 47°10'47"W ~ 113.58'
- Ⓢ N 75°04'34"W ~ 72.58'
- Ⓣ N 08°19'07"W ~ 25.36'
- Ⓤ N 13°21'36"E ~ 45.46'
- Ⓥ N 24°14'30"W ~ 27.93'
- Ⓦ N 00°17'32"W ~ 61.78'
- Ⓧ N 15°20'11"W ~ 18.40'
- Ⓨ N 11°54'02"W ~ 9.05'
- Ⓩ N 09°39'48"E ~ 33.53'
- ⓐ S 11°53'57"E ~ 9.05'
- ⓑ S 15°21'56"E ~ 18.40'
- ⓓ S 00°16'49"E ~ 61.78'
- ⓔ N 65°45'26"E ~ 16.91'
- ⓕ S 24°14'31"E ~ 27.93'

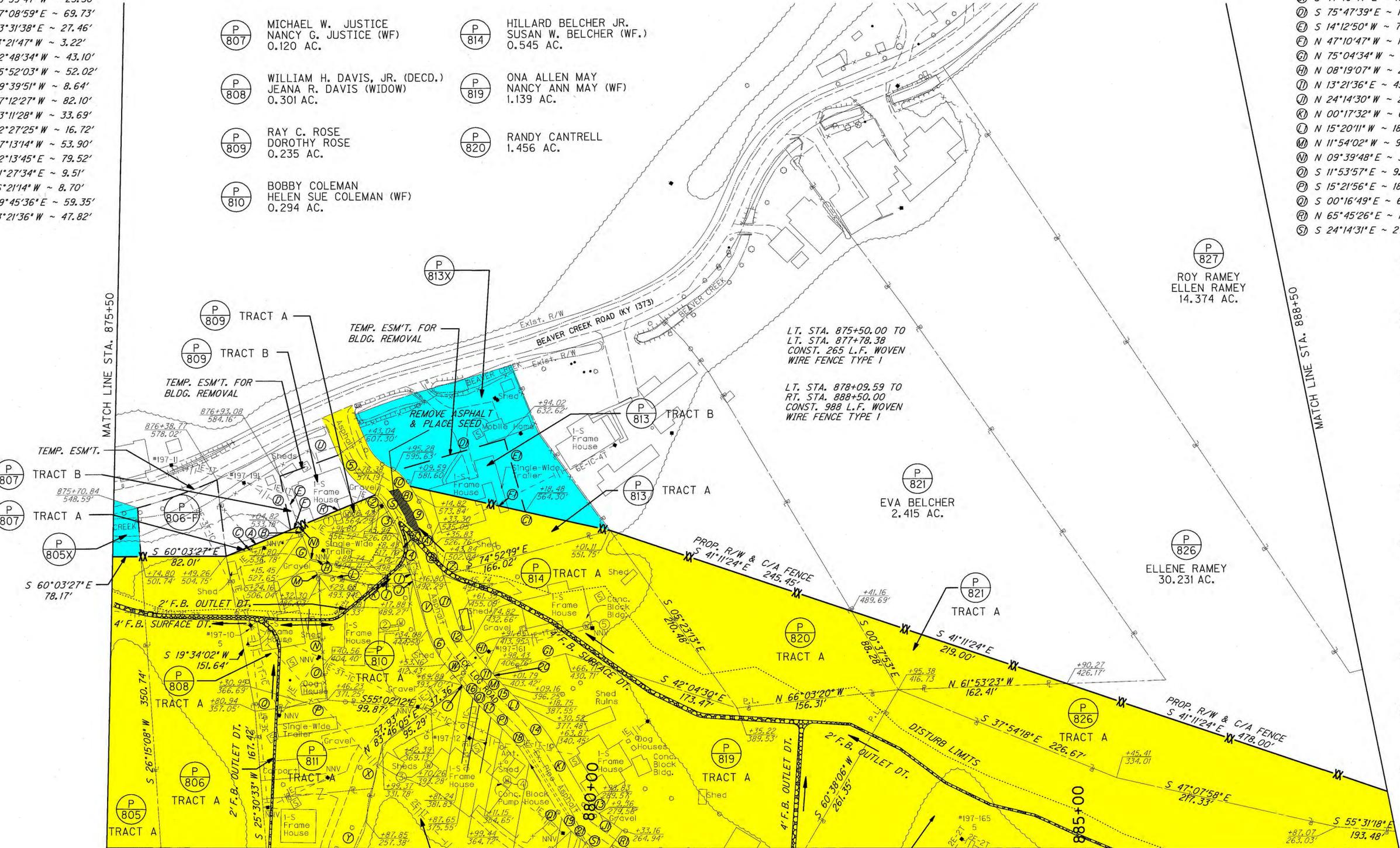
- ① R = 515.00'
L = 6.31'
CB = S 13°42'38"W
LC = 6.31'
- ② R = 20.00'
L = 11.14'
CB = S 17°25'25"E
LC = 11.00'
- ③ R = 110.00'
L = 34.19'
CB = S 07°26'29"W
LC = 34.05'
- ④ R = 515.00'
L = 20.57'
CB = S 15°12'21"W
LC = 20.56'
- ⑤ R = 75.00'
L = 53.56'
CB = S 12°55'29"E
LC = 52.43'
- ⑥ R = 100.00'
L = 37.84'
CB = S 02°31'17"W
LC = 37.61'
- ⑦ R = 265.00'
L = 0.57'
CB = S 09°09'00"E
LC = 0.57'
- ⑧ R = 485.00'
L = 25.31'
CB = N 14°51'17"E
LC = 25.31'
- ⑨ R = 140.00'
L = 43.52'
CB = N 07°26'28"E
LC = 43.34'
- ⑩ R = 50.00'
L = 20.79'
CB = N 13°22'22"W
LC = 20.64'
- ⑪ R = 235.00'
L = 9.94'
CB = N 09°31'36"W
LC = 9.94'
- ⑫ R = 70.00'
L = 26.49'
CB = N 02°31'18"E
LC = 26.33'
- ⑬ R = 35.00'
L = 14.63'
CB = N 12°15'58"W
LC = 14.53'
- ⑭ R = 190.00'
L = 47.06'
CB = N 07°23'19"W
LC = 46.94'
- ⑮ R = 235.00'
L = 14.30'
CB = N 13°37'42"W
LC = 14.29'
- ⑯ R = 265.00'
L = 16.00'
CB = S 10°10'06"E
LC = 16.00'
- ⑰ R = 265.00'
L = 16.12'
CB = S 13°37'43"E
LC = 16.11'
- ⑱ R = 160.01'
L = 39.17'
CB = S 07°18'20"E
LC = 39.07'
- ⑲ R = 65.00'
L = 15.15'
CB = S 06°58'05"E
LC = 15.11'
- ⑳ R = 235.00'
L = 4.76'
CB = N 11°19'07"W
LC = 4.76'
- ㉑ R = 65.00'
L = 12.02'
CB = S 18°56'36"E
LC = 12.01'



US 460 - SECTION 8
MAINLINE PLAN
STA. 875+50 TO STA. 888+50

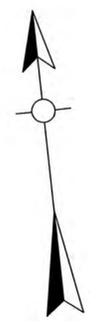
PREPARED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
APPROVED BY: _____ DATE: _____

USER: \$\$\$USER\$\$\$
DATE: \$\$\$DATE\$\$\$
FILE NAME: \$\$\$designsfile\$\$\$
E-SHEET NAME:



RIGHT OF WAY PLANS

REVISED PLAN DATE: 1-14-08



DITCH CONST. NOTES - LT.

STATIONS	SIZE / SHAPE	LINING	QUANTITY	D	T
888+50 TO 891+00	2' F.B. SURF. DT.	CLASS IV	0.0 TONS	2.0'	2.0'
891+00 TO 901+50	NORMAL DITCH	NATURAL ROCK	-	-	-

LT. STA. 888+50 TO LT. STA. 890+92.99
CONST. 261 L.F. WOVEN WIRE FENCE TYPE I

LT. STA. 891+47.62 TO LT. STA. 901+50
CONST. 1,003 L.F. WOVEN WIRE FENCE TYPE I

P.I. 888+54.63
D = 30°43'10" Lt.
C = 2°51'53"
Ts = 689.80'
Ls = 280.00'
Lo = 792.31'
f = 4°00'39"
L.T. = 186.71'
S.T. = 93.38'
R = 2000.00'
Es = 75.78'
e = 6.90%
Runoff = 280.00'
Runout = 81.20'
Design Speed = 60 mph

WATER WELLS

STATION	OFFSET	NOTE
889+45.20	RT 45.04'	PLUG & CAP

DITCH CONST. NOTES - RT.

STATIONS	SIZE / SHAPE	LINING	QUANTITY	D	T
888+50 TO 892+00	2' F.B. SURF. DT.	CLASS IV	0.0 TONS	2.0'	2.0'
892+00 TO 893+00	2' F.B. SPEC. DT.	CLASS IV	0.0 TONS	2.0'	2.0'
893+00 TO 901+50	NORMAL DITCH	NATURAL ROCK	-	-	-
892+00	2' F.B. OUTLET DT.	CLASS IV	0.0 TONS	1.0'	2.0'

RT. STA. 893+40 TO LT. STA. 893+40
CONST. 160' ~ 4" PERFORATED PIPE

STA. 892+00 TO STA. 893+40
CONST. 137' ~ 4" NON-PERFORATED PIPE

RT. STA. 888+50.00 TO RT. STA. 890+93.94
CONST. 291 L.F. WOVEN WIRE R/W FENCE TYPE I

RT. STA. 891+44.45 TO RT. STA. 893+15.5
CONST. 208 L.F. WOVEN WIRE R/W FENCE TYPE I

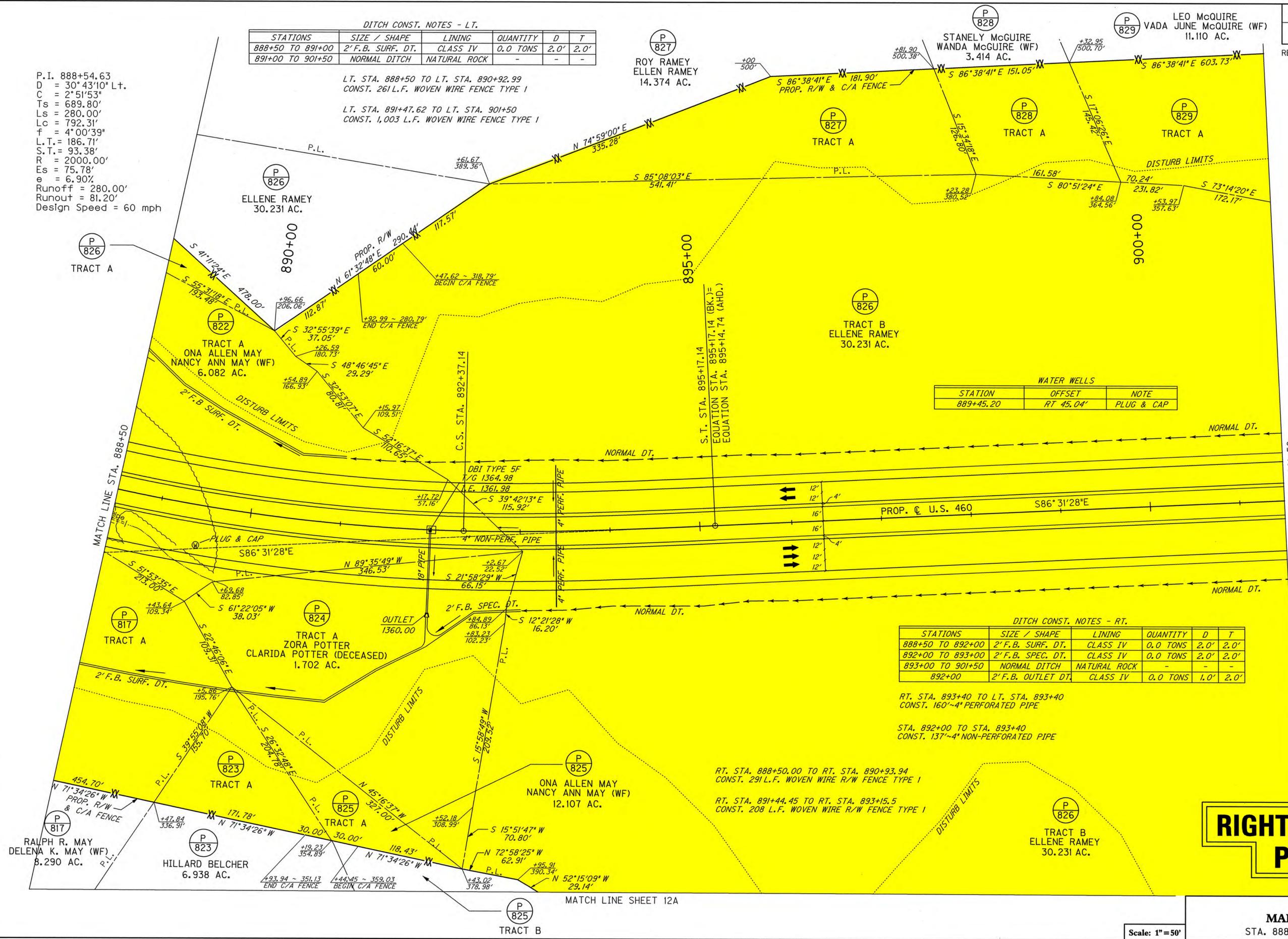
RIGHT OF WAY PLANS

US 460
MAINLINE PLAN
STA. 888+50 TO STA. 901+50

Scale: 1" = 50'

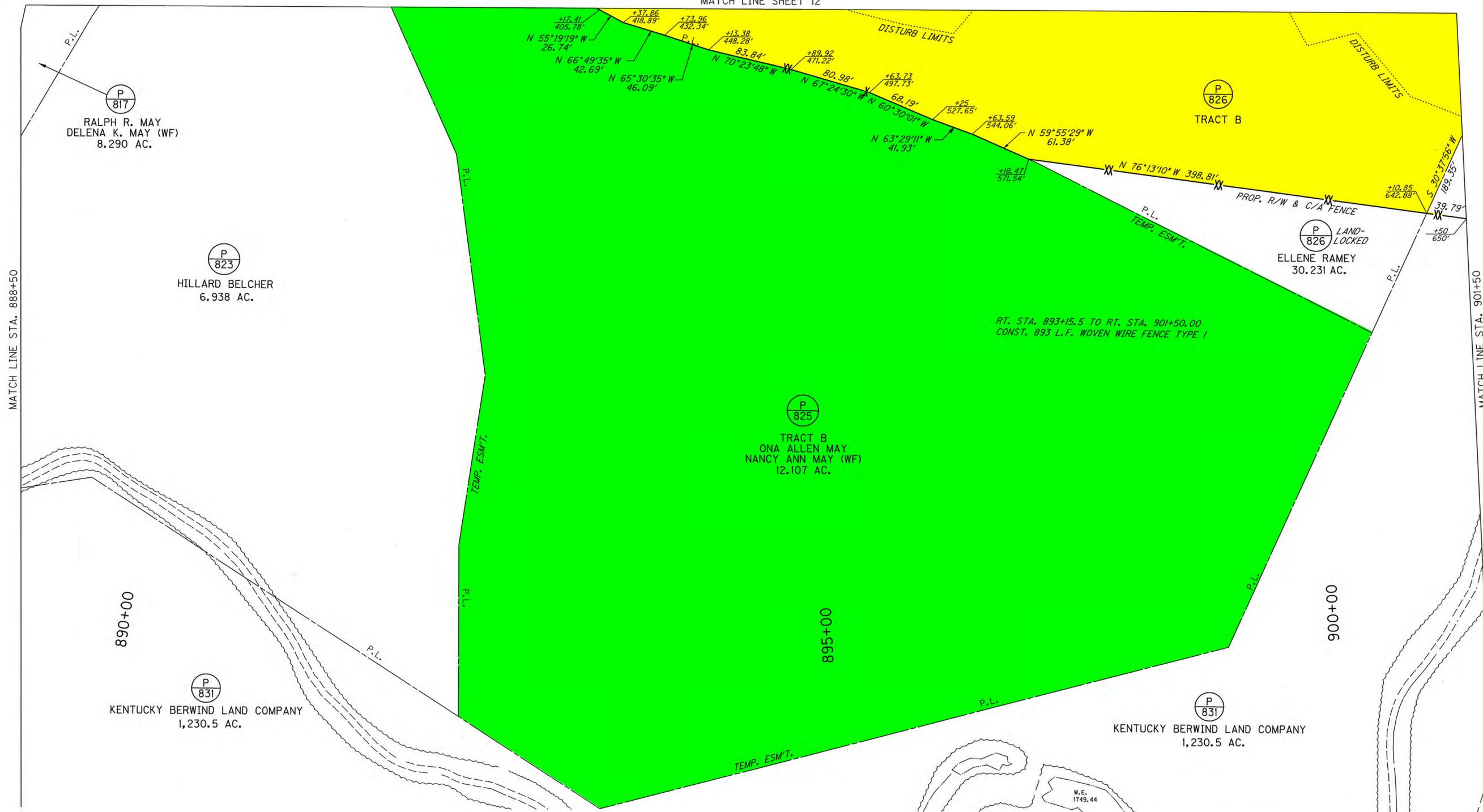
PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

Cell Library: roadway cel
Cell Name: sp
DD-MMM-YYYY HH:MM
VENDORS NAME
1-92
FORM NO. 2





MATCH LINE SHEET 12



PREPARED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

Cell Library: roadway.cel
 Cell Name: sp
 DD-MM-YYYY HH:MM

VENDORS NAME
 1-92
 FORM NO. 2

RIGHT OF WAY PLANS

Scale: 1"=50'

**US 460
MAINLINE PLAN**
 STA. 888+50 TO STA. 901+50

12-263.80

DITCH CONST. NOTES - LT.

STATIONS	SIZE / SHAPE	LINING	QUANTITY	D	T
901+50 TO 914+00	NORMAL DITCH	NATURAL ROCK	-	-	-
914+00 TO 914+50	2' F.B. SPEC. DT.	CLASS IV	0.0 TONS	2.0'	2.0'

LT. STA. 901+50 TO LT. STA. 914+50
CONST. 1,662 LF. WOVEN WIRE R/W FENCE TYPE I

DITCH CONST. NOTES - RT.

STATIONS	SIZE / SHAPE	LINING	QUANTITY	D	T
901+50 TO 902+00	NORMAL DITCH	NATURAL ROCK	-	-	-
902+00 TO 903+00	2' F.B. SPEC. DT.	NATURAL ROCK	-	-	-
903+00 TO 913+00	NORMAL DITCH	NATURAL ROCK	-	-	-
913+00 TO 914+50	2' F.B. SPEC. DT.	CLASS IV	0.0 TONS	2.0'	2.0'

P.I. 914+64.26
D = 65°15'02" Rt.
C = 3°34'52"
Ts = 1175.69'
Ls = 300.00'
Lc = 1522.14'
f = 5°22'17"
L.T. = 200.09'
S.T. = 100.08'
R = 1600.00'
Es = 302.54'
e = 7.70%
Runoff = SEE CROSS SECTIONS
Runout = SEE CROSS SECTIONS
Design Speed = 60 mph

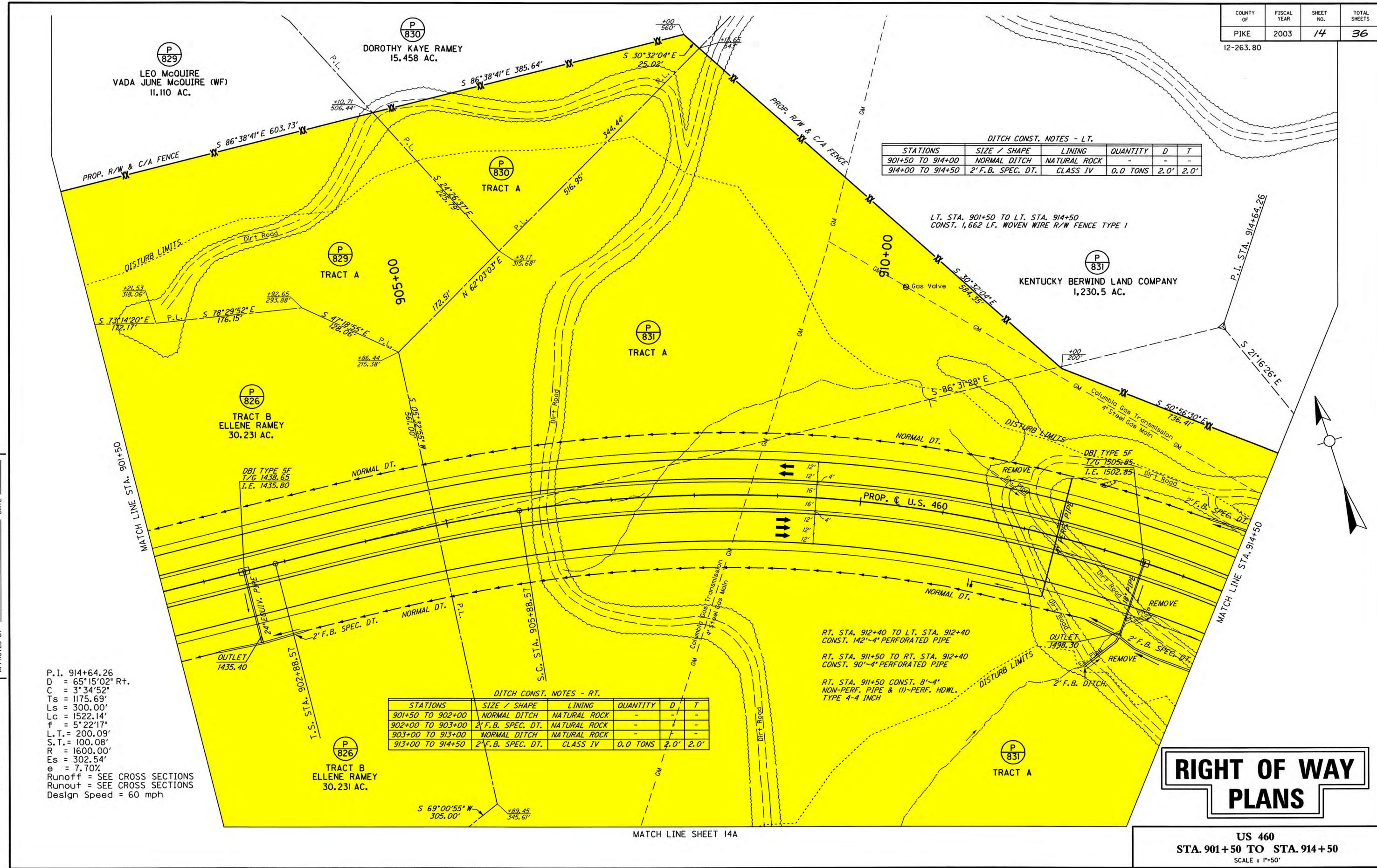
PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

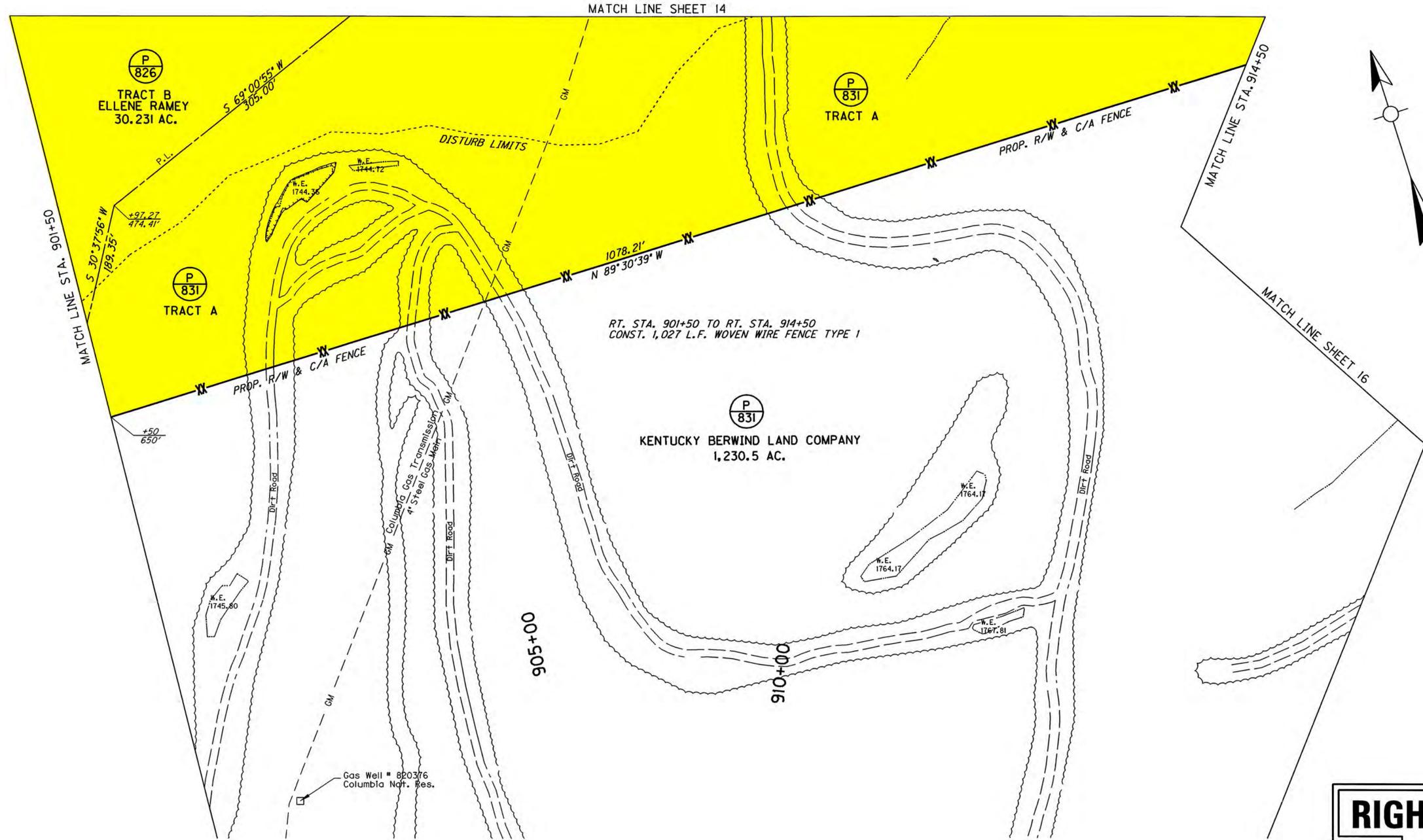
Cell Library: roadway.cel
Cell Name: sp
Ur: V9106 Mainline Plans\90150a.dwg
VENDORS NAME
1-32
FORM NO. 2

RIGHT OF WAY PLANS

US 460
STA. 901+50 TO STA. 914+50
SCALE: 1"=50'

MATCH LINE SHEET 14A





RT. STA. 901+50 TO RT. STA. 914+50
CONST. 1,027 L.F. WOVEN WIRE FENCE TYPE 1

KENTUCKY BERWIND LAND COMPANY
1,230.5 AC.

TRACT B
ELLENE RAMEY
30.231 AC.

TRACT A

TRACT A

RIGHT OF WAY PLANS

US 460
STA. 901+50 TO STA. 914+50
SCALE : 1"=50'

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
APPROVED BY _____ DATE _____

Cell Library: Roadway.cel
Cell Name: sp
Ut: \93106 Mainline \Plans\90150b.dgn

VENDORS NAME _____
I-92 _____
FORM NO. 2 _____