4/7/2021 FIELD EXAM ATTENDEES:

via Microsoft Teams Videoconference: Bahr, Jonathan (Road Design) Jackson, Kari (Road Design) Phillips, Jim (District 5) Klein, Jared (District 5, Maintenance) Fix, Scott (District 5, Maintenance) Giarmo, Lauren (District 5, Construction) Blint, Anthony (District 5, Construction)



Highway Division

PRIMARY ROAD SYSTEM

HMA RESURFACING / HMA PAVED SHOULDER - NEW

IA 78 FROM WINFIELD E. TO US 61

FIELD EXAM NOTES:

See notes at bottom left hand corner of sheet A.2 regarding the plan set distribution of projects. STP-078-4(29)--2C-44 and STP-078-4(29)--2C-44 / HSIPX-078-5(10)--3L-58.

All three projects were discussed during the same 4/7/2021 Field Exam Meeting.

BEGIN PROJECT STA. 2+33.5 REF. LOC. 37.88

SCALES: As Noted

FIELD EXAM NOTES:

FHWA 28580 BRIDGE MAINT 4443.58078

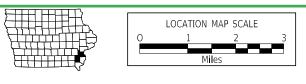
End of Project is at pavement transition just to the west of the IA 78/US 61 intersection. (Station 207+78, MP 54.71).

1-800-292-8989

BRIDGE MAINT 4445.55078

BRIDGE MAINT 4446,15078

Design Team and District 5 shall coordinate with Bridges and Structures Bureau on special items identified by District 5 Maintenance.



HENRY COUNTY							
DESI	GN	DATA	ιRU	RAL			
2022	AAD ⁻	т	1,065	V.P.D.			
2042	ΔΔΩ	Т	1.280	VPD			

R-5W

2022 A	ADT .	1,065	V.P.D.
2042 A	ADT .	1,280	V.P.D.
2042 D	HV	140	V.P.H.
TRUCKS		12	%
Total			
Design ES	SALs	409,080	
-			

LOUISA COUNTY						
DESI	GN I	DATA	Rι	JRAL		
2042 2042 TRUCK	DHV	1,	821	V.P.D. V.P.D. V.P.H. %		
Total Design	ESALs	708,	<u>585</u>			

FHWA 28611 BRIDGE MAINT 4447.98078

INDEX OF SEALS							
SHEET NO.	NAME	TYPE					
A.1	Jonathan W. Bahr	Primary Signature Block					
Χ	X	X					

PROJECT IDENTIFICATION NUMBER 09-44-078-010 PROJECT NUMBER STP-078-4(19)--2C-44 / HSIPX-078-5(10)--3L-58 R.O.W. PROJECT NUMBER

	INDEX OF SHEETS						
	No.	DESCRIPTION					
Α	Sheets	Title Sheets					
	A.1	Title Sheet and Location Map					
В	Sheets	Typical Cross Sections and Details					
	B.1 - 6	Typical Cross Sections and Details					
D	Sheets	Mainline Plan and Profile Sheets					
	D.1 - 39	IA 78 Plan and Profile As-Builts					
J	Sheets	Traffic Control and Staging Sheets					
	J.1	Traffic Control Plan & 511 Travel Restrictions					
	J.1	Coordinated Operations					
		* Color Plan Sheets					

FIELD EXAM NOTES:

REVISIONS

Project Design Events may be revised pending Design Team 3R workload analysis. It has been recommended that the February 2022 Letting be avoided due to project congestion and that the Letting be no earlier than October 2021 or later than March 2022.

4/21/2021 UPDATE:

Letting Dates for project (29) and (19)/(10) have been REVISED from 12/21/2021 to 1/19/2022. DM5 Event Date is now 9/28/2021. D7 Event Date is now 11/02/2021.

> Project Design Events: DM5 - 08-31-2021 D7 - 10-05-2021

Subject to change by final design.

D2 - Date: 04-01-2021

FILE NO. 30406

1:09:29 PM

FIELD EXAM NOTES:

DESIGN TEAM HOLST / BAHR / JACKSON

HENRY / LOUISA COUNTY

R-4W

BRIDGE MAINT 5854.85078

PROJECT NUMBER STP-078-4(19)--2C-44 / HSIPX-078-5(10)--3L-58

R-3W

SHEET NUMBER A.1

Combination Shoulder

3R_Shldr_C_Overlay_ 04-19-11				
STATION TO STATION P G				
2+33.5	2+33.5 18+86.2		3.0	

FIELD EXAM NOTES:

District 5 Maintenance Team agreed to stockpile HMA Millings (or Class A Stone).

Primary Location: Reload Station (US 61 Milepost 61.7, a mile south of IA 78)

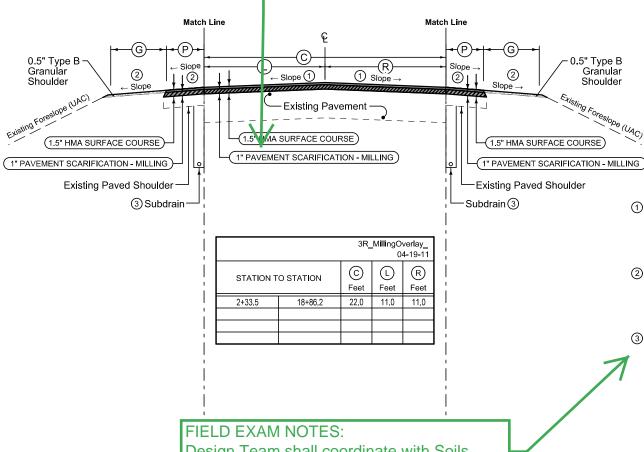
Secondary Location: Iowa DOT Maintenance Garage, 3001 Grandview Ave., Muscatine

Contact Person: Scott Fix (Maintenance Supervisor), mobile: 563-272-8660

(specification mentions each location can store up to 2500 tons of HMA milling for a 5000 ton combined maximum and Contractor has the option to deliver HMA Millings or Class A Stone).

Combination Shoulder

3R_Shldr_C_Overlay 04-19-1					
STATION T	P	G			
			Feet		
2+33.5	18+86.2	2.0	3.0		



① Finished slope shall match existing pavement except the maximum allowable slope is 3.0% and the minimum allowable slope is 2.0%. Section may be modified as directed by the Engineer through areas of special shaping.

② Finished slope of Shoulder shall have a minimum allowable slope of 4% and a maximum allowable slope of 6%. Section may be modified as directed by the Engineer through areas of special shaping.

③ UAC existing subdrain. All existing subdrain shall remain functional at all times (do not plug or crush). New subdrain shall be in contact with the granular material below the existing mainline pavement (see Tab 104-9 on CS sheets for proposed locations).

Design Team shall coordinate with Soils Bureau for design of proposed subdrain.

FIELD EXAM NOTES:

US 218 to Winfield (Section 2 in Project Concept) is associated with project STP-078-4(29)--2C-44. For the purposes of this D2 Meeting the Section 2 detail was included in the plan set and the extents were included on the Cover Sheet's Location Map.

The Design Team shall contact the Contracts group and discuss the possibility of merging project STP-078-4(29)--2C-44 into the plans for STP-078-4(29)--2C-44 / HSIPX-078-5(10)--3L-58 or whether STP-078-4(29)--2C-44 needs to be extracted from this plan set and be included in its own set of plans.

4/21/2021 UPDATE: Project STP-078-4(29)--2C-44 will be broken out into its own set of plans on subsequent submittals. STP-078-4(29)--2C-44 / HSIPX-078-5(10)--3L-58 will remain sharing a set of plans.

FIELD EXAM NOTES:

Contingency Percentages to be utilized for projects (29), (19), (10):

HMA Material: 5% Granular Shoulder: 20%

Gianulai Shoulder. 20%

Patches: 5%

See Tab 100-24 or 100-25 for pavement quantities. See Tab 112-9 for shoulder quantities.

Notes:

 Stationing on typical sections does not include gapping for bridges, sideroads, or entrances. Refer to tabulations and details for precise stationing and quantites.

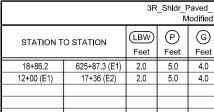
IA 78 HMA RESURFACING WITH MILLING

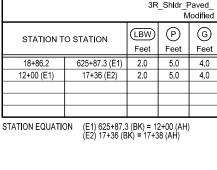
(US 218 to Winfield)

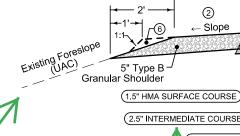
FILE NO. 30406 ENGLISH DESIGN TEAM HOLST / BAHR / JACKSON HENRY / LOUISA COUNTY PROJECT NUMBER STP-078-4(19)--2C-44 / HSIPX-078-5(10)--3L-58 SHEET NUMBER B1

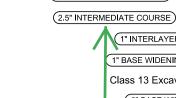
Combination Shoulder with Widening

Shoulder Jointing: Longitudinal joint: B









(2)

← Slope

(1" INTERLAYER)-1" BASE WIDENING Class 13 Excavation 3R_WidenOverlay_ 6" BASE WIDENING STATION TO STATION ③ Subdrain

-LBW) (S)

(4)

(L) (R)Feet Feet 625+87.3 (E1) 11.0 11.0 18+86 2 12+00 (E1) 17+36 (E2) 11.0

Existing Pavement —

-(1.5" HMA SURFACE COURSE

2.5" INTERMEDIATE COURSE

1

1" INTERLAYER

. ← Slope

(E1) 625+87.3 (BK) = 12+00 (AH) (E2) 17+36 (BK) = 17+38 (AH) STATION EQUATION

Modified

(1)

Slope \rightarrow

(4)

(5) (RBW)

2

Slope →

(1" INTERLAYER)

1" BASE WIDENING

Class 13 Excavation

6" BASE WIDENING

Subdrain ③

-5" Type B Granular Shoulder

1.5" HMA SURFACE COURSE

2.5" INTERMEDIATE COURSE

FIELD EXAM NOTES:

This project will utilize Rumble STRIPES to provide additional space for bicyclists on the shoulders. Rumble Stripes shall NOT be utilized within the Corporate Limits of Winfield and Morning Sun.

Multiple Pavement Marking applications of edgeline will be added to accommodate sequence of final surface construction and subsequent installation of Rumble Stripes.

Combination Shoulder with Widening

Shoulder Jointing: Longitudinal joint: B

3R_Shldr_Paved_ Modified							
STATION T	O STATION	RBW) Feet	P Feet	G Feet			
18+86.2 625+87.3 (E1)		2.0	5.0	4.0			
12+00 (E1) 17+36 (E2)		2.0	5.0	4.0			
1		1		I			

STATION EQUATION

(E1) 625+87.3 (BK) = 12+00 (AH) (E2) 17+36 (BK) = 17+38 (AH

- (1) Finished slope shall match existing pavement except the maximum allowable slope is 3.0% and the minimum allowable slope is 2.0%. Section may be modified as directed by the Engineer through areas of special
- 2) Finished slope of Shoulder shall have a minimum allowable slope of 4% and a maximum allowable slope of 6%. Section may be modified as directed by the Engineer through areas of special shaping.
- (3) UAC existing subdrain. All existing subdrain shall remain functional at all times (do not plug or crush). New subdrain shall be in contact with the granular material below the existing mainline pavement (see Tab 104-9 on CS sheets for proposed locations).
- (4) Edge of Traveled Way and white painted edge line to be located at 12 ft Rt and Lt of Centerline. See current Standard Specifications and Road Standards for placement of Shoulder Rumble strips for information. See Tab 112-10 for Locations.
- (5) 6 inches of Special Backfill is required beneath the Base Widening unit when Base Widening unit is part of the proposed traffic lane.
- (6) Place and compact material to the dashed lines; then blade and shape to foreslope that portion above the solid line in the outer 2 ft and roll with loaded truck

FIELD EXAM NOTES:

248+51.5, north of Mount Union).

FIELD EXAM NOTES:

District 5 Maintenance (Scott Fix) mentioned ditch

reshaping may be needed in certain areas. Field Crews

will identify and tabulate locations and lengths of Ditch

and Environment to review and approve before adding

to the project scope. (one possible location is NWC of

Bridge FHWA 34080, 5856.9S078 at MP 56.9, station

Reshaping for Jim Phillips and the Office of Location

The Project Concept says "1" HMA Interlayer, 2.5" leveling/strengthening course, plus a 1.5" Standard HMA." for Section 3 (Winfield to Morning Sun) The Design Team asked the District if the 2.5" leveling/strengthening course should be identified as a "Scratch Course" and be placed beneath the interlayer since the existing pavement in this section (IA 78, Winfiled to Morning Sun) is PCC.

Jim Phillips (District 5) confirmed in a 4/7/2021 e-mail at 1:28pm the following sequence (from existing pavement surface up): 2.5" Scratch Course, 1" Interlayer, 1.5" Surface Course. This is because the existing pavement is PCC. If the existing pavement was HMA it would be 1" Interlayer, 2.5" Scratch Course, 1.5" Surface Course.

A note shall be added to the typical that "Scratch Course consists of a a HMA Mixture Leveling or Strengthening Course" and be bid as 2303-0001000 HOT MIX ASPHALT MIXTURE, WEDGE, LEVELING OR STRENGTHENING COURSE (TON).

FIELD EXAM NOTES:

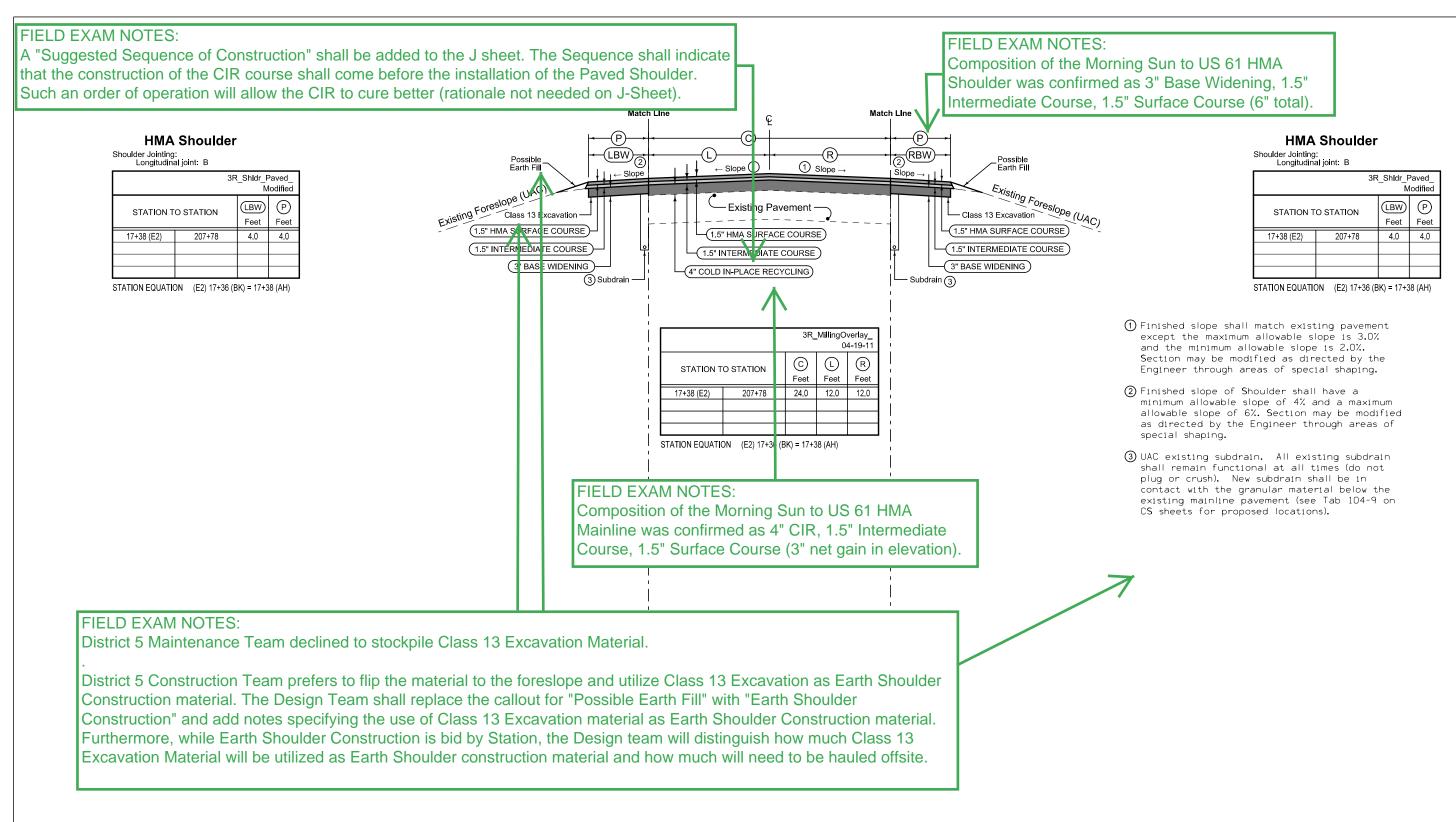
"Urban" Funding Division shall be used within the Corporate Limits of Winfield AND Morning Sun. "Rural" Funding Division shall be used elsewhere.

Stationing on typical sections does not include gapping for bridges, sideroads, or entrances. Refer to tabulations and details for precise stationing and quantites.

IA 78 WIDENING/HMA RESURFACING



(Winfield to Morning Sun)



See Tab 100-24 or 100-25 for pavement quantities. See Tab 112-9 for shoulder quantities.

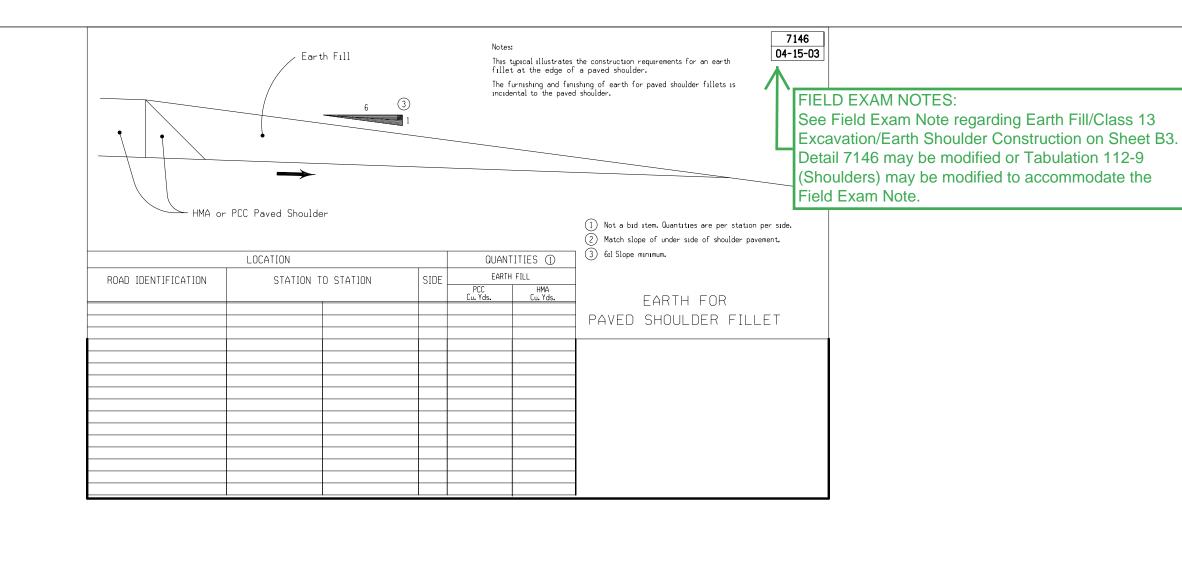
Notes:

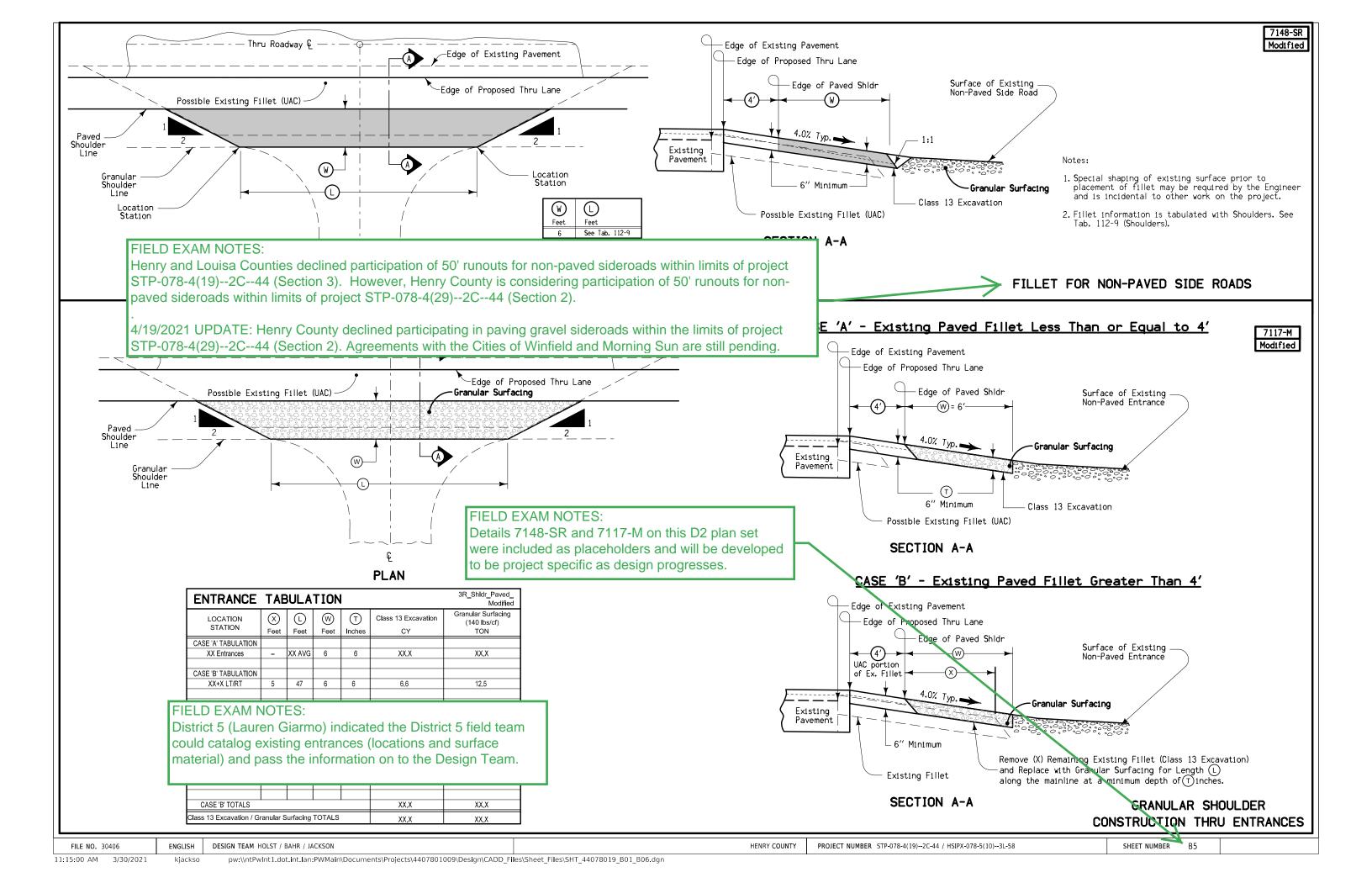
 Stationing on typical sections does not include gapping for bridges, sideroads, or entrances. Refer to tabulations and details for precise stationing and quantites.

IA 78 CIR, HMA Resurfacing, and Widening

(Morning Sun to US 61)

FILE NO. 30406 ENGLISH DESIGN TEAM HOLST / BAHR / JACKSON SHEET NUMBER B3







7157 NFO 10-20-20

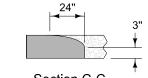
9" HMA Paved Shoulder at guardrail. 8" PCC may be substituted with the following jointing layout:

Match mainline pavement joint spacing. When mainline pavement is 8" or greater in thickness, place additional transverse 'C' joints in shoulder at mid-panel of the mainline pavement. Place longitudinal 'C' joint at P/2 from edge of mainline pavement when P is greater than 10' wide. Terminate longitudinal joint at transverse joint less than 10' in length.

Compaction of HMA is required to face of guardrail post. Hand compaction will be allowed under guardrail. Removal and reinstallation of guardrail will be allowed with no additional payment.

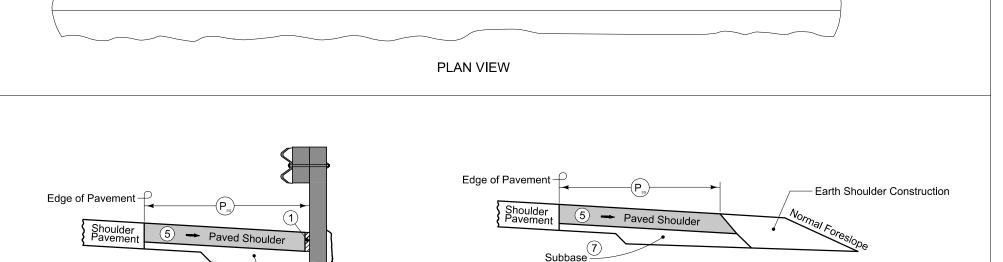
Refer to Tabulation 112-9 for shoulder quantities.

- (1) PCC option only: When guardrail posts are installed prior to construction of PCC paved shoulder, fasten form board to the face of guardrail posts for the length shown.
- (2) Continue paved shoulder 20 feet beyond the center of the first post.
- (3) Shoulder may be notched for first 2 posts or post sleeves may be installed through pavement. Do not drive posts through pavement.
- (4) 'KT-1 joint for PCC shoulder. 'B' joint for HMA shoulder.
- 5 Match shoulder slope.
- (6) The Contractor has the option to pave the paved shoulder at guardrail and the partial width paved shoulder as one operation.
- (7) Refer to other details in the plan.



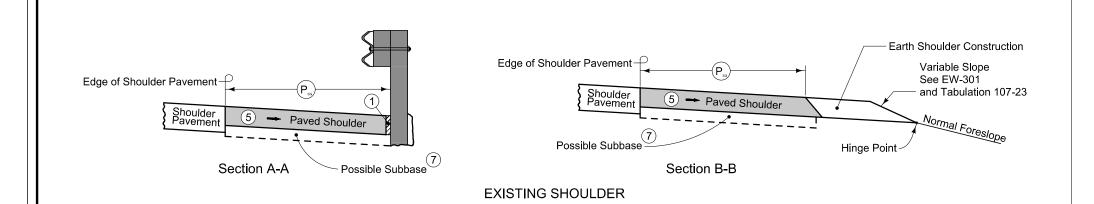
Section C-C
Roll down at granular shoulder or earth.

PAVED SHOULDER AT GUARDRAIL (ADJACENT TO PARTIAL WIDTH PAVED SHOULDER)



Edge of Shoulder Pavement 4

Direction of Traffic



NEW CONSTRUCTION

FIELD EXAM NOTES:

District 5 Maintenance Team declined to stockpile existing guardail beam and posts that are being removed.

Form Board 1

Edge of Traveled Way

Section A-A

Subbase 7

Final Guardrail

Location

FIELD EXAM NOTES:

Edge of Granular Shoulder

Edge of Shoulder

Pavement

Detail 7157 on this D2 plan set was included as a placeholder. Additional "Paved Shoulder at Guardrail" details may be included in subsequent submittals to accommodate the varying conditions found within the project limits.

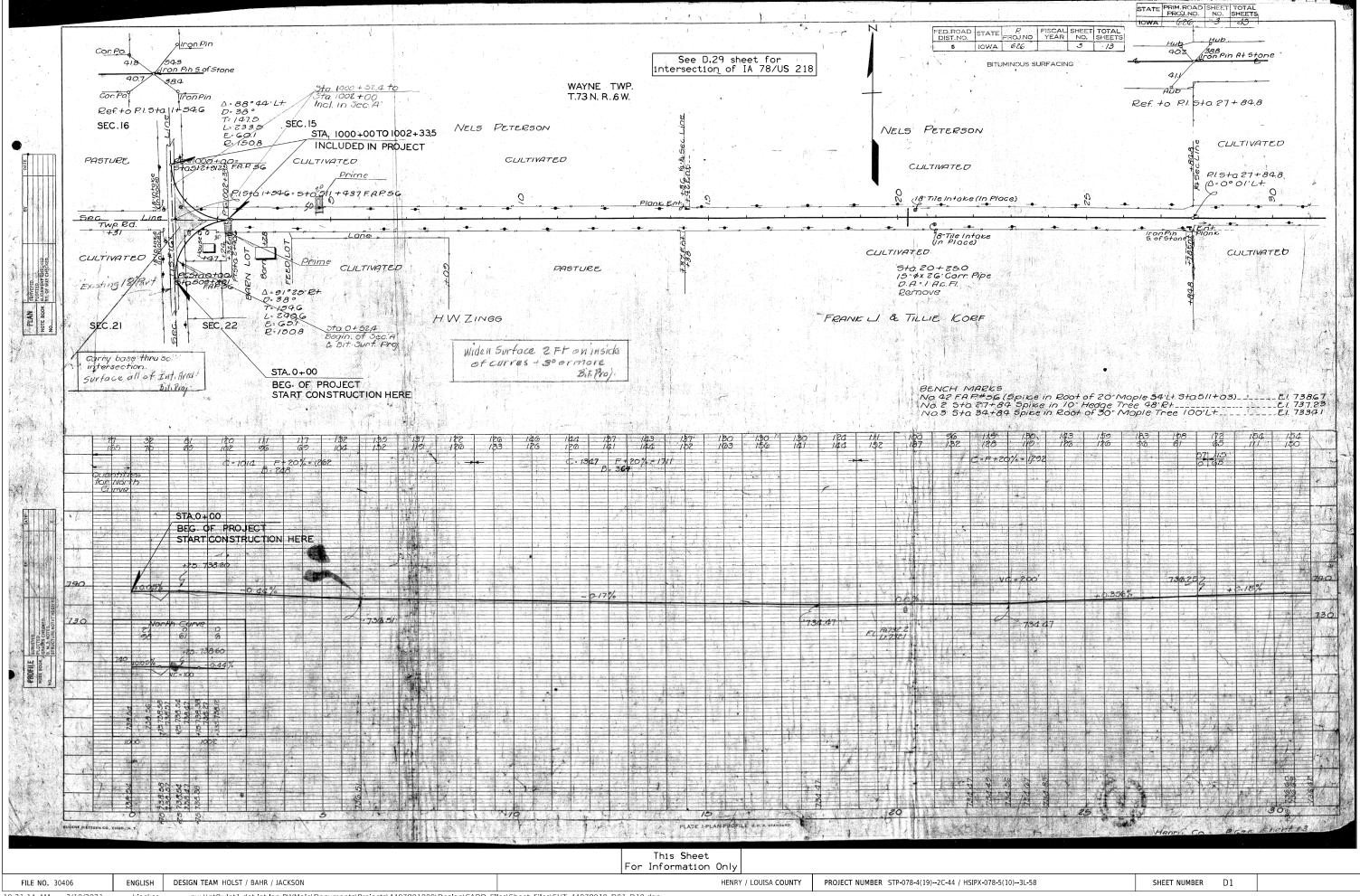
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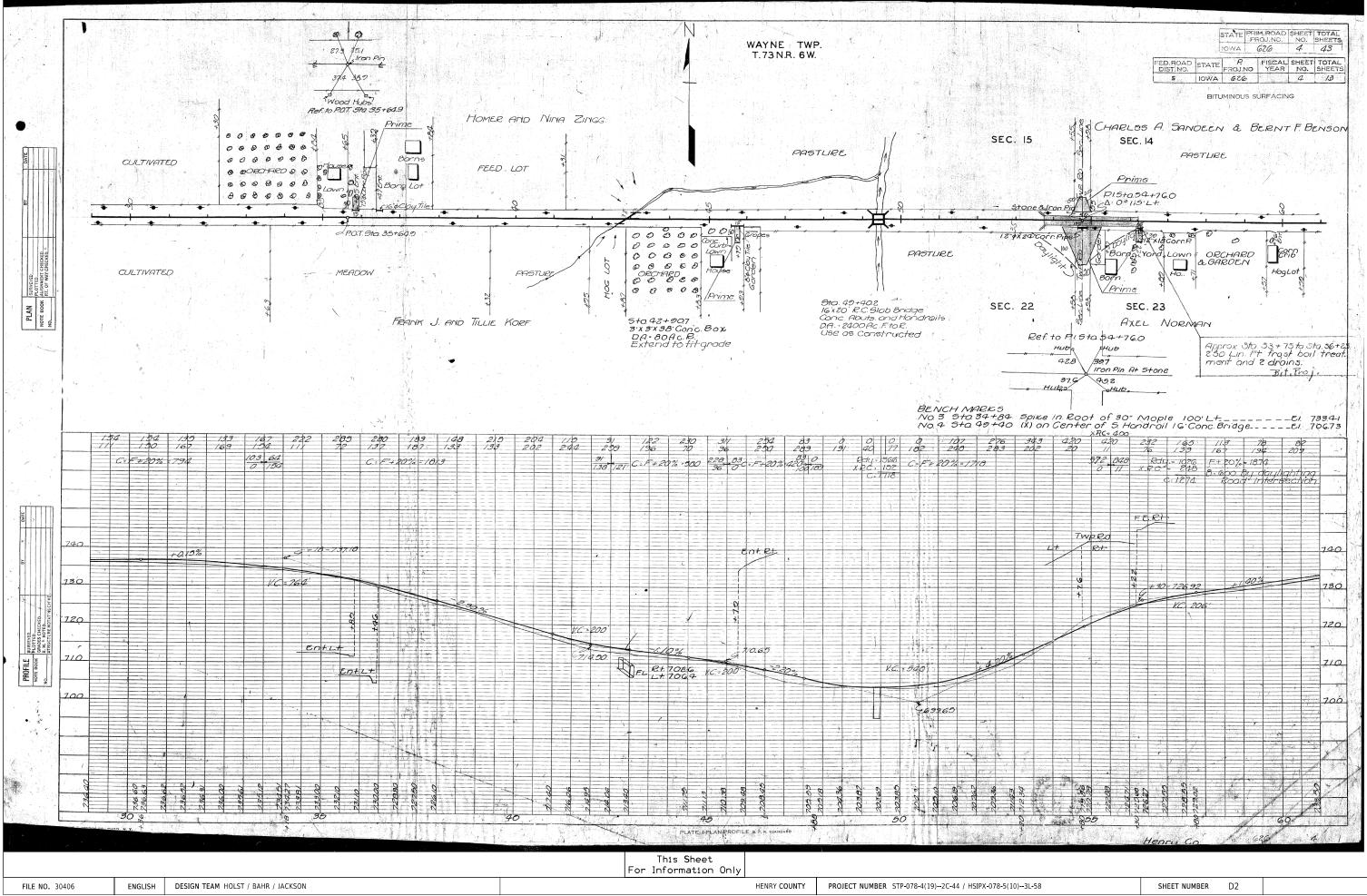
HENRY / LOUISA COUNTY

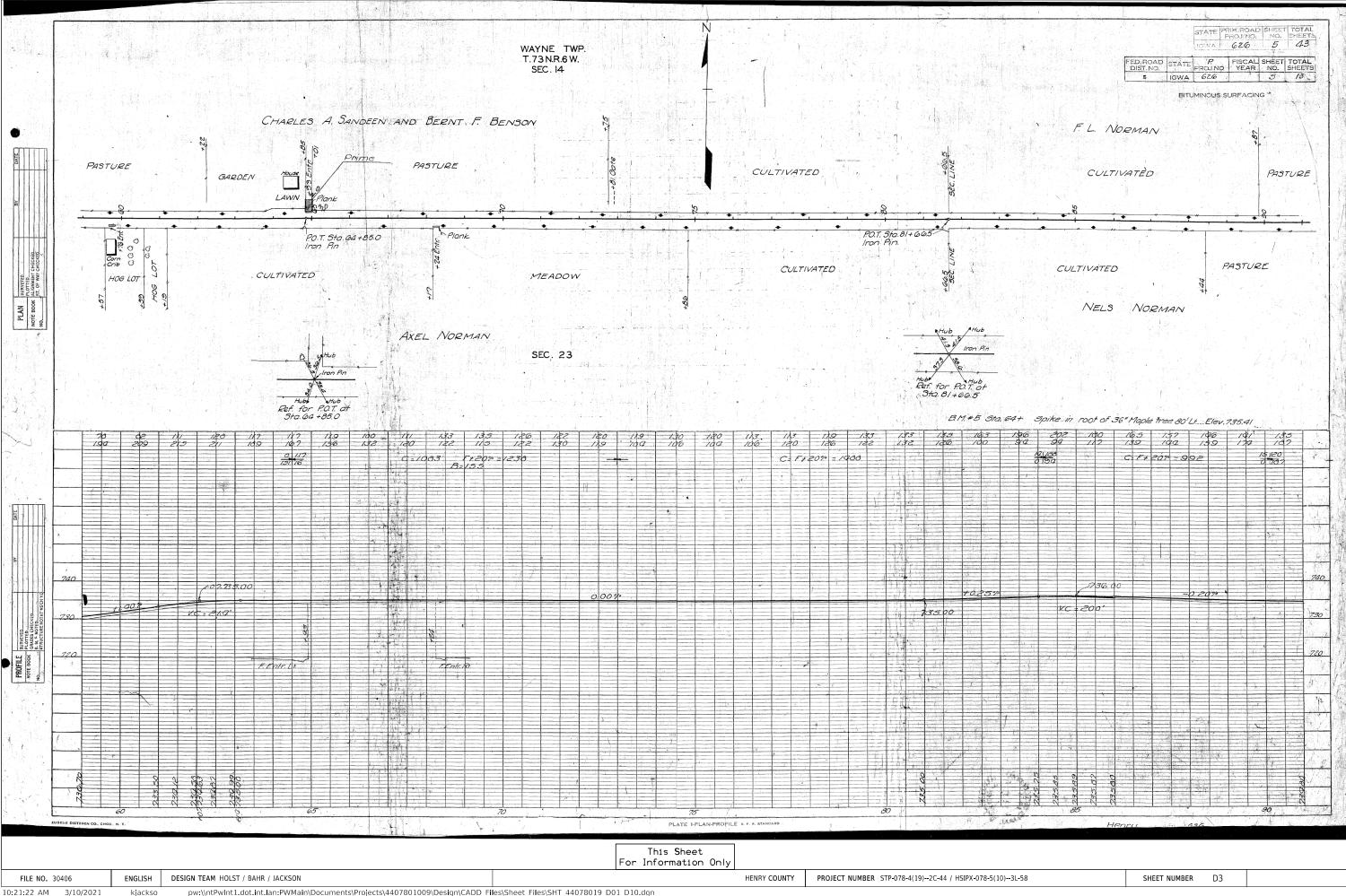
Section B-B

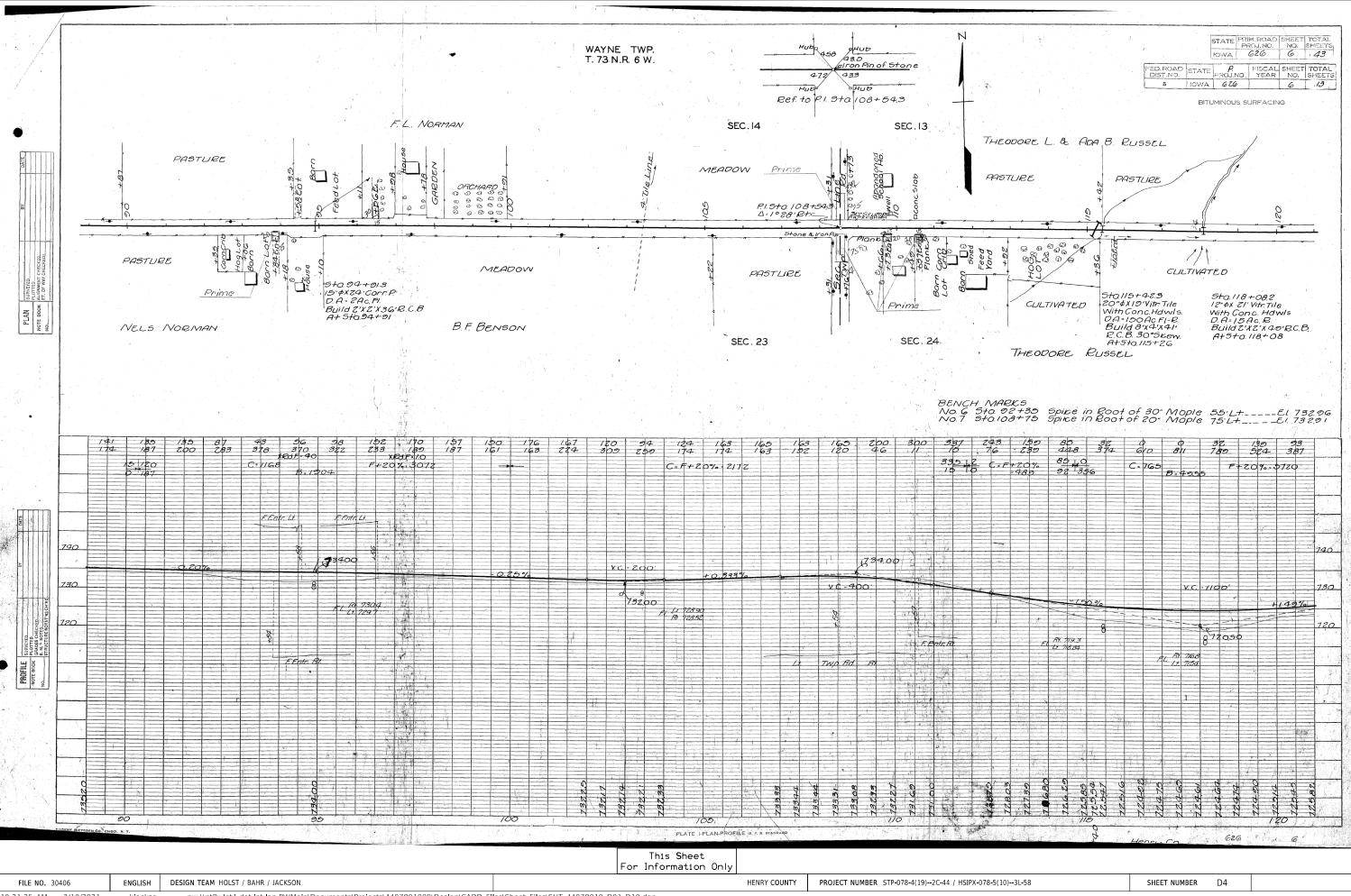
PROJECT NUMBER STP-078-4(19)--2C-44 / HSIPX-078-5(10)--3L-58

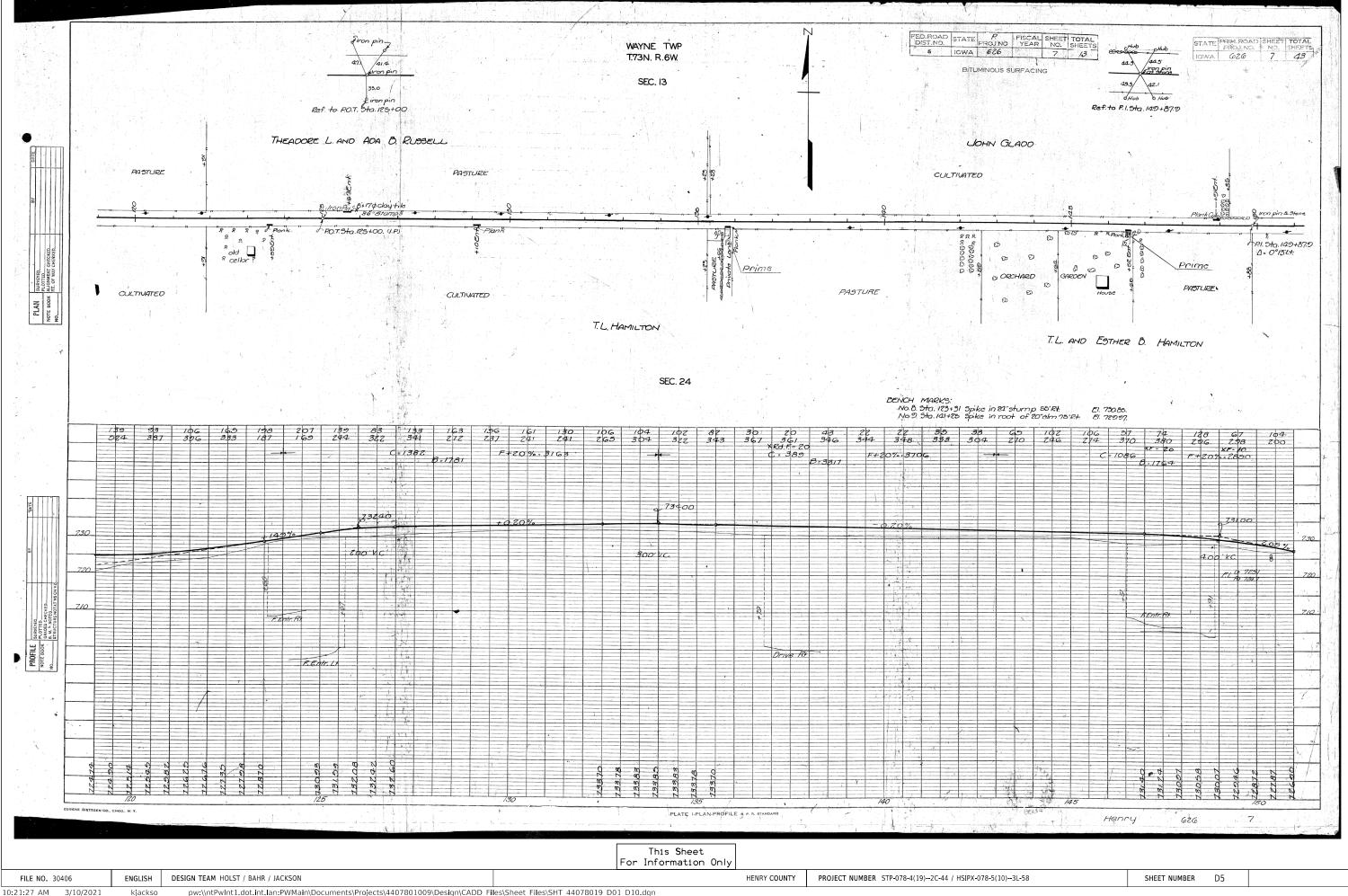
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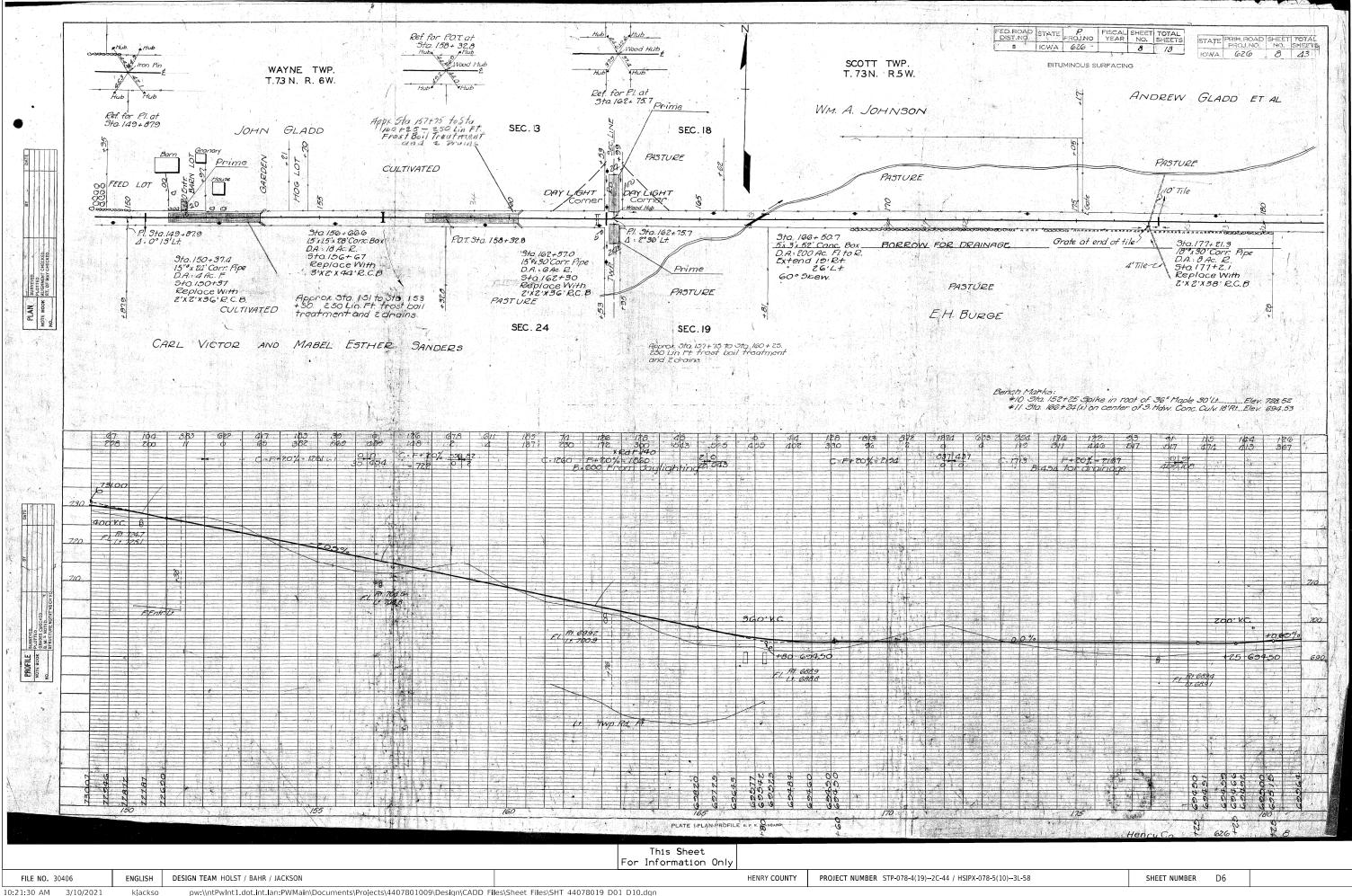


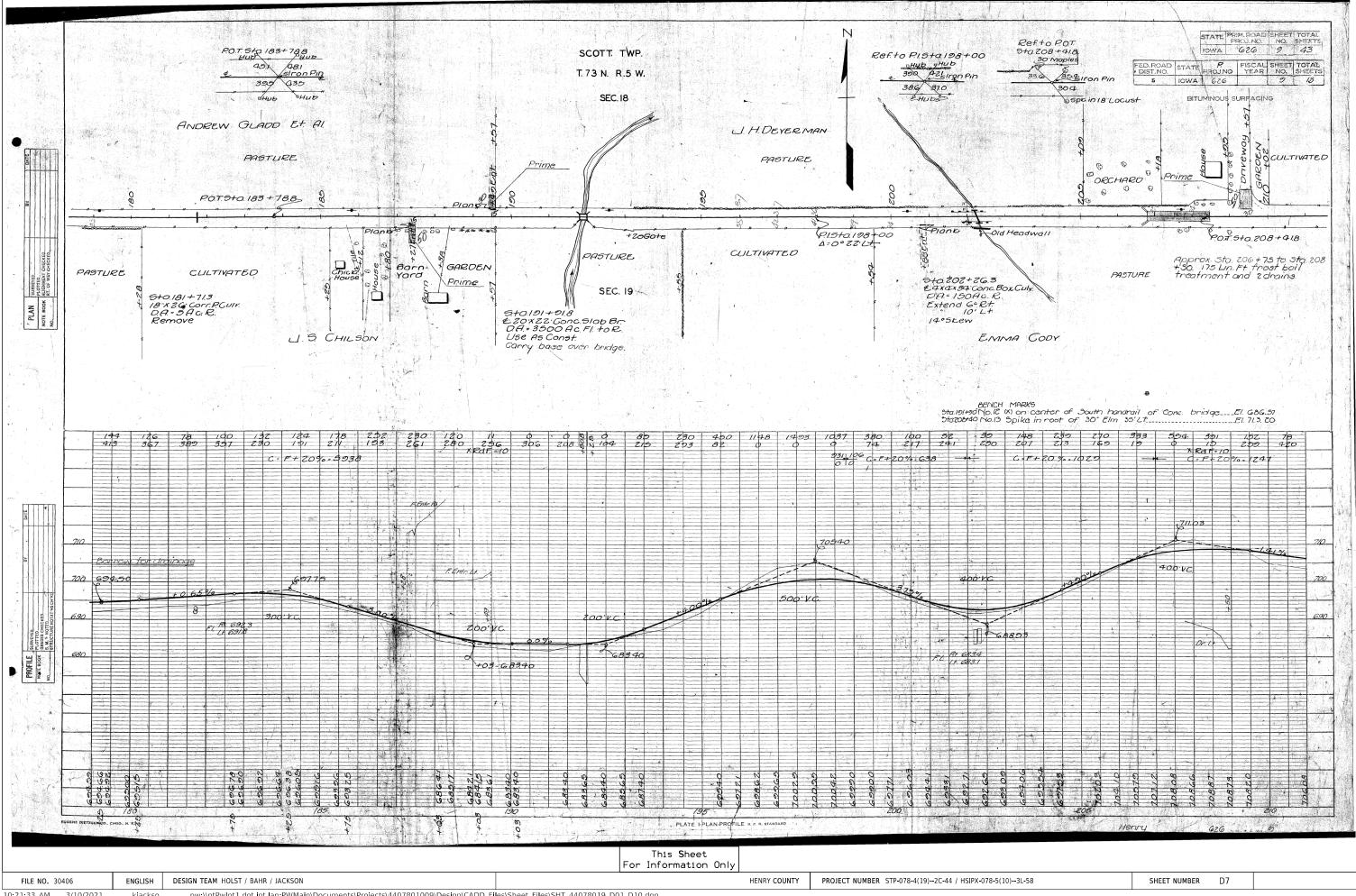


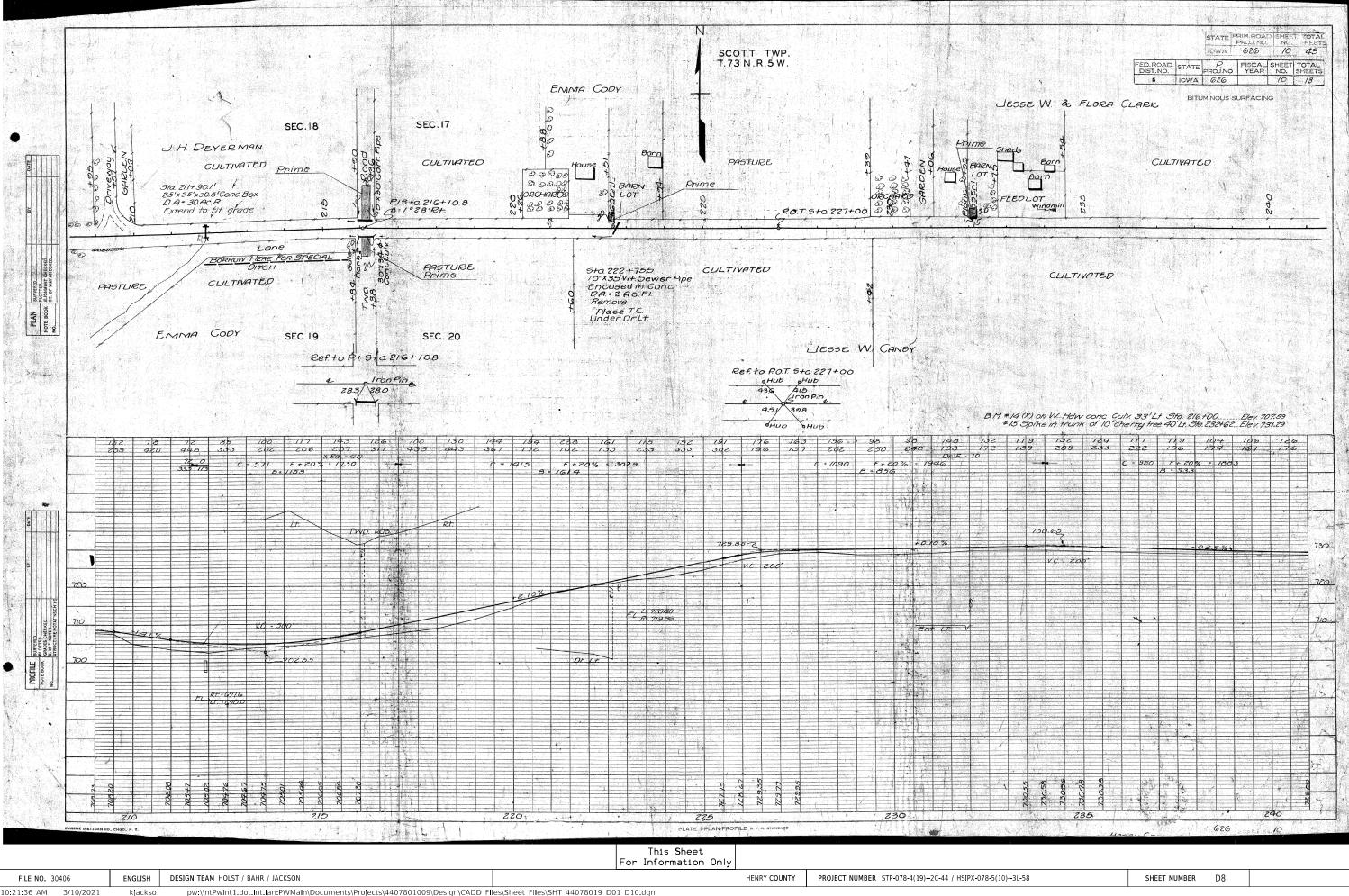


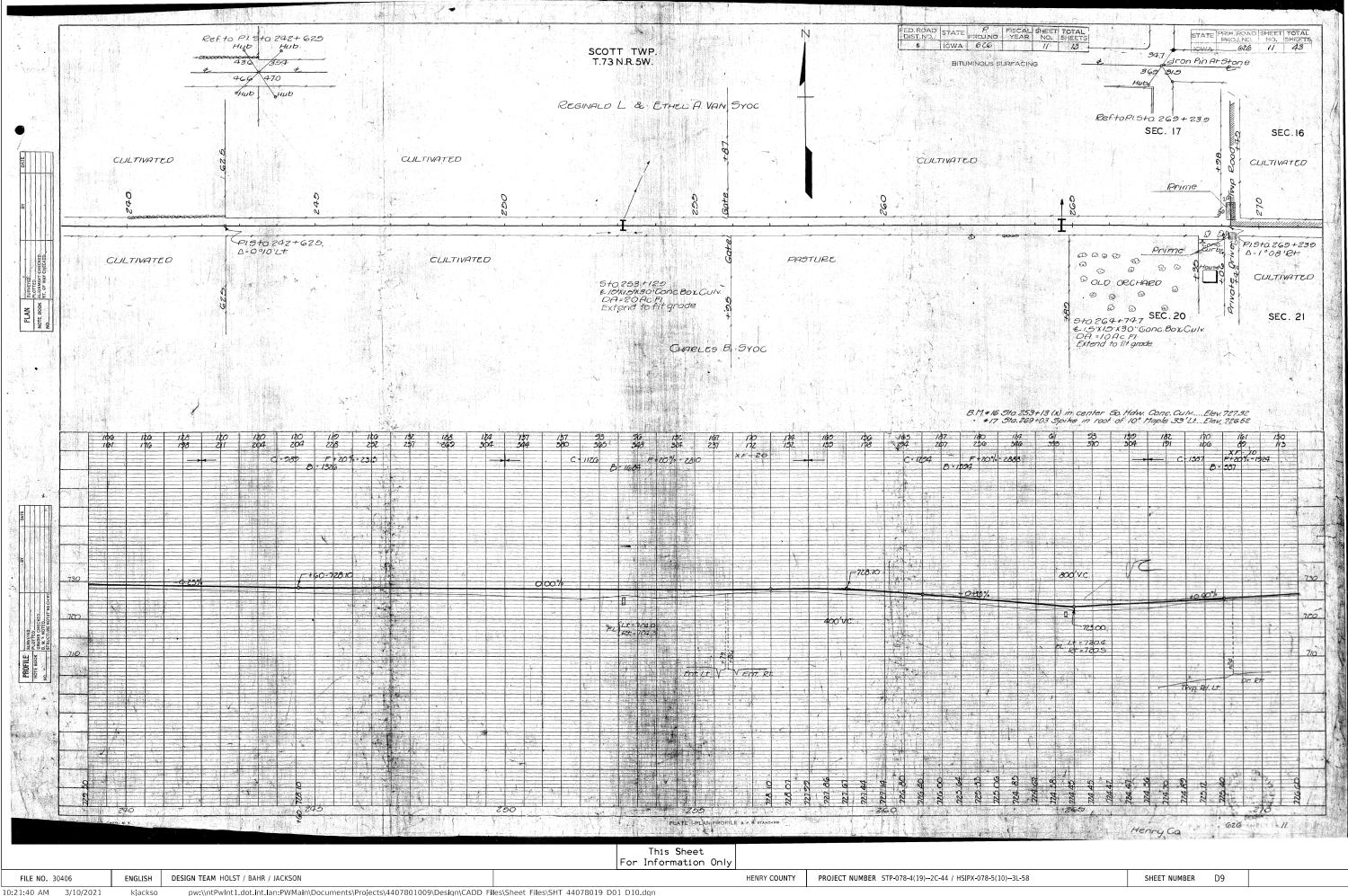


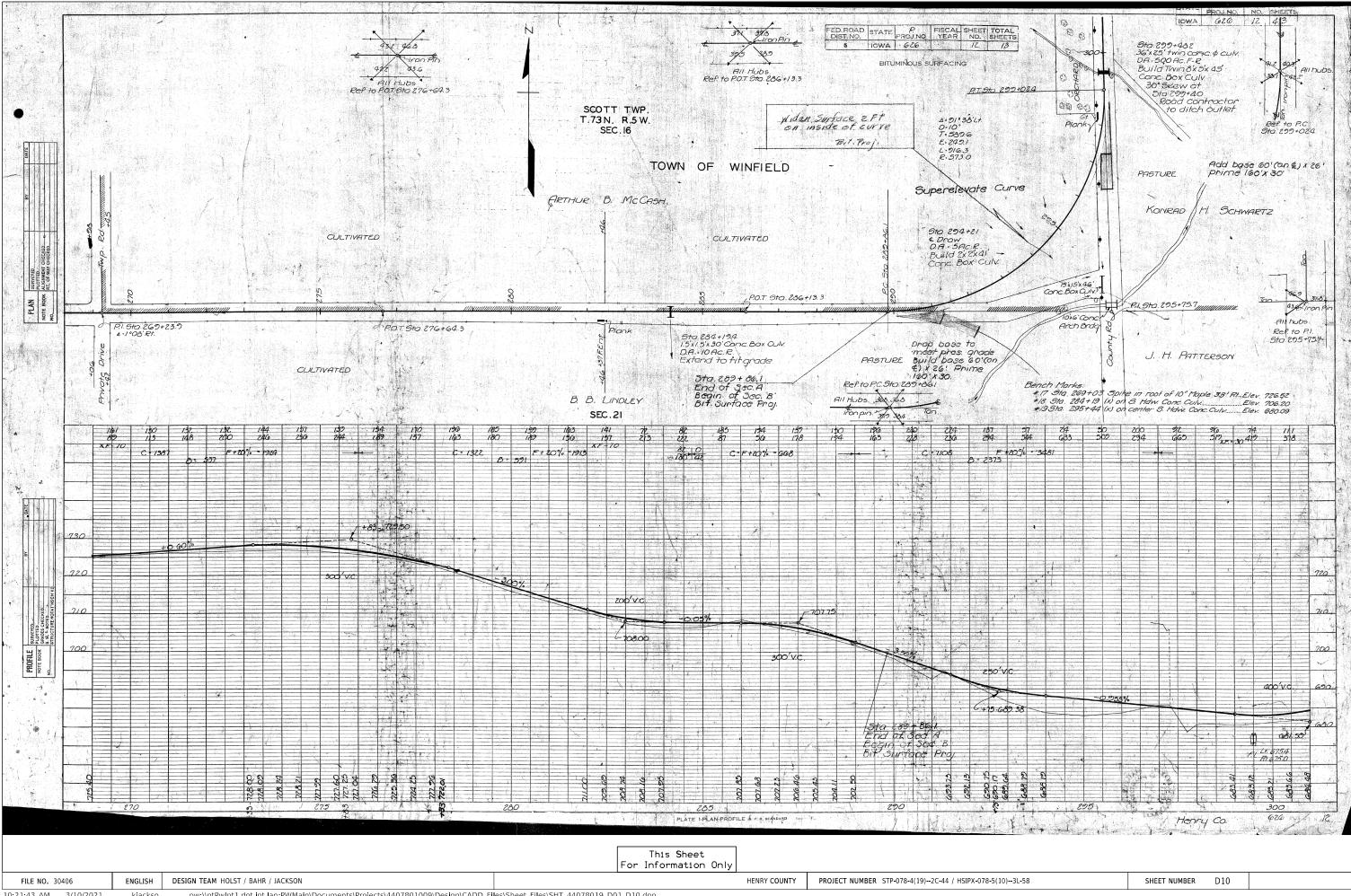


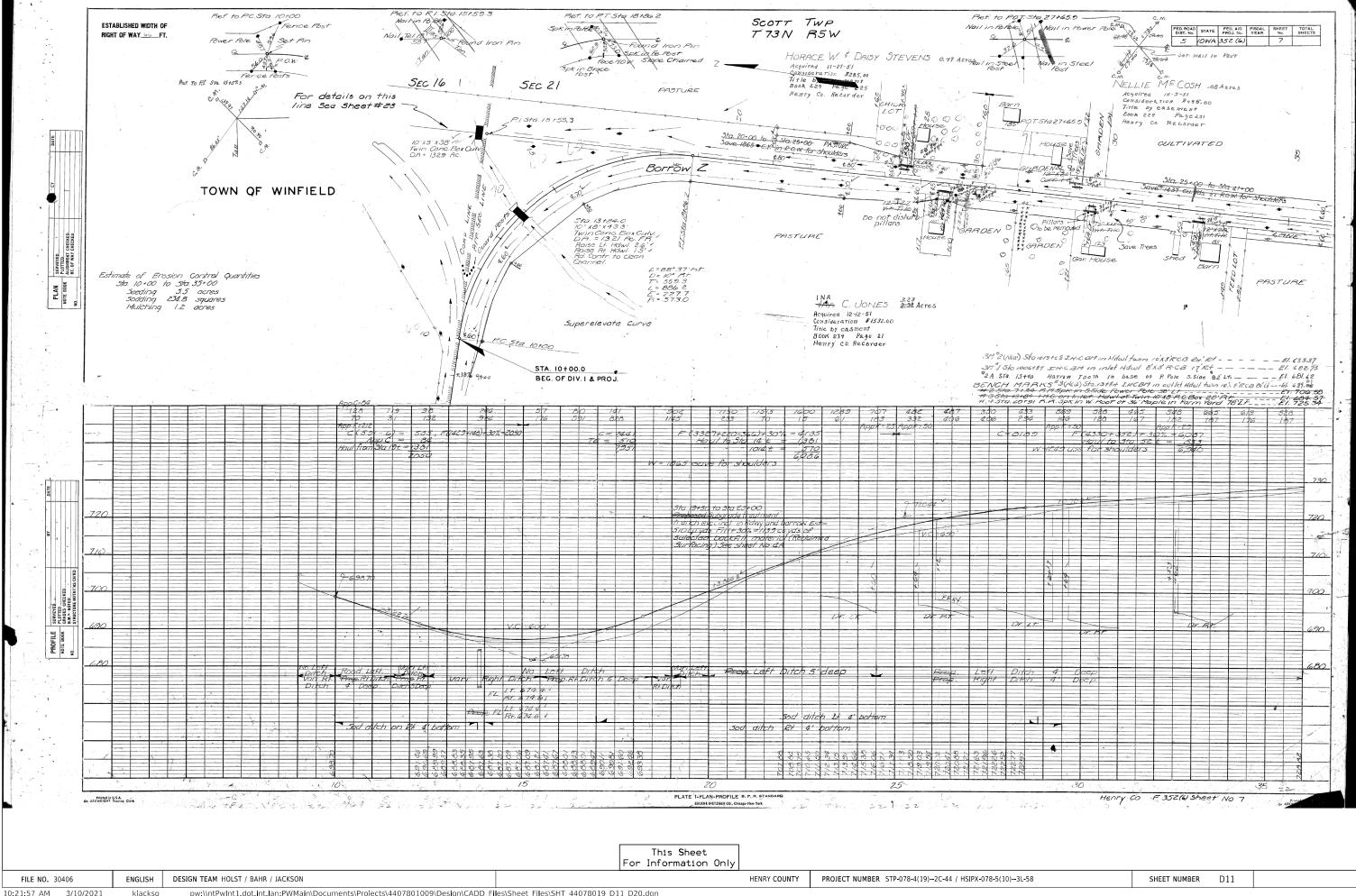


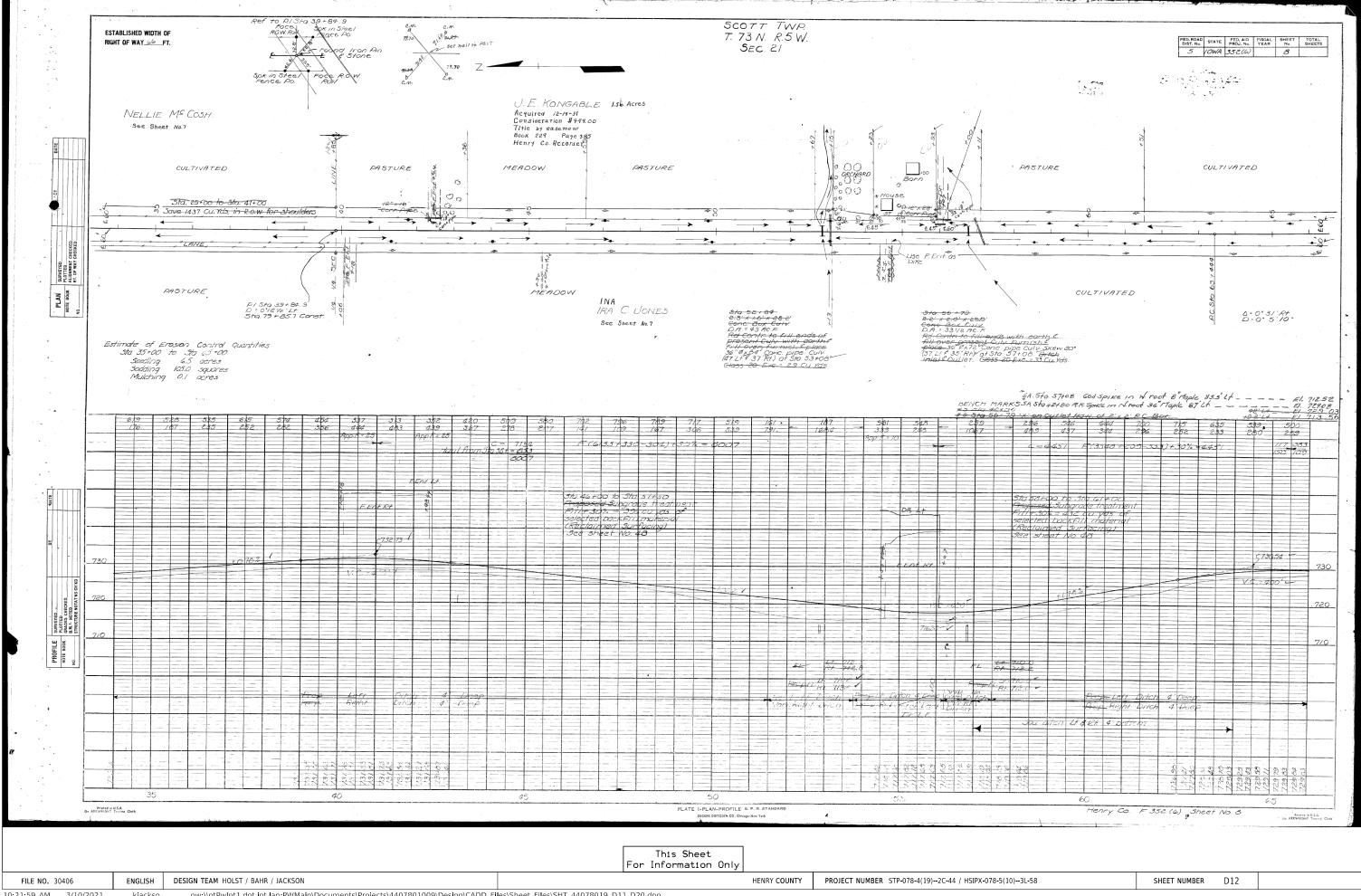


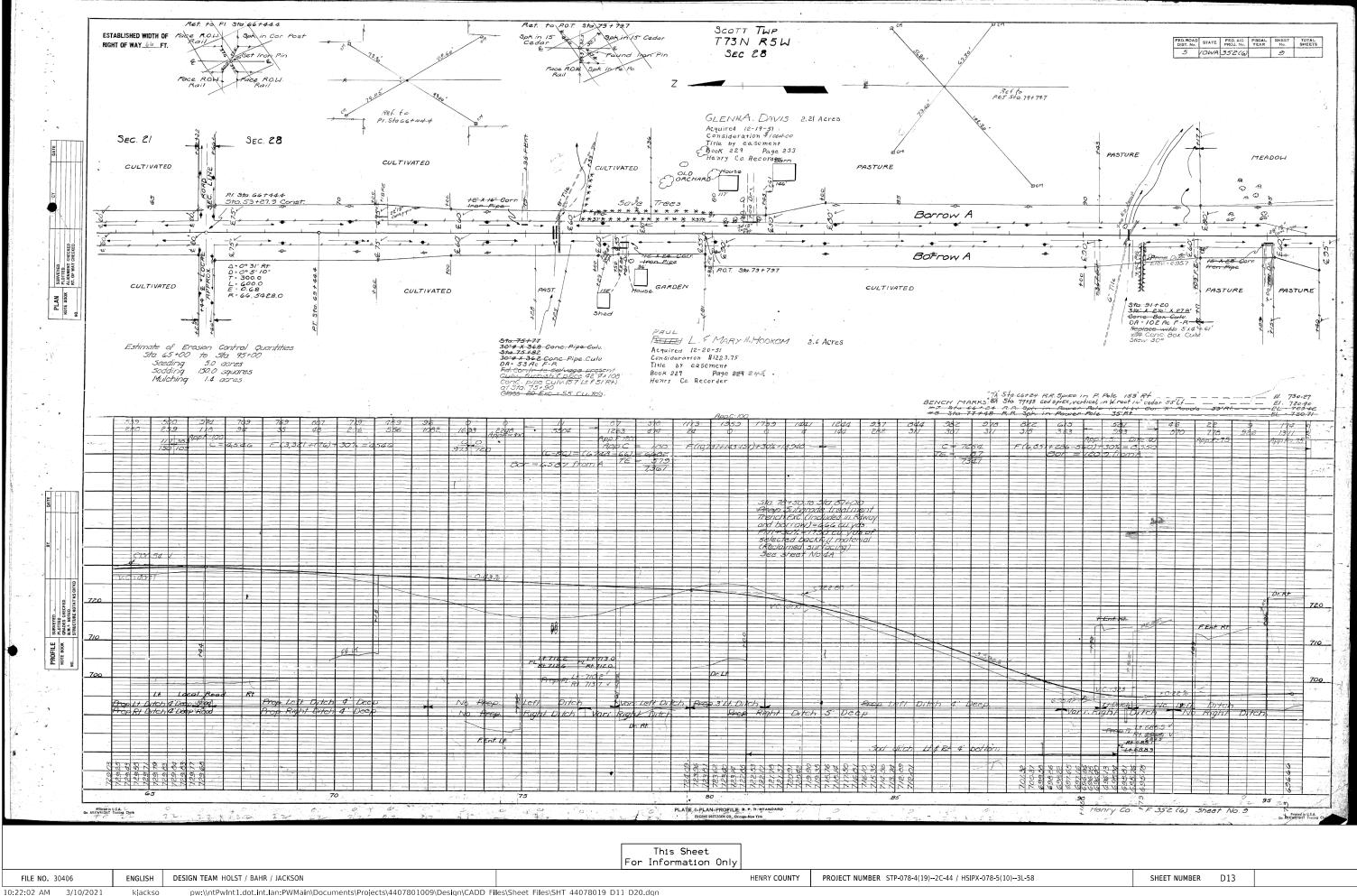


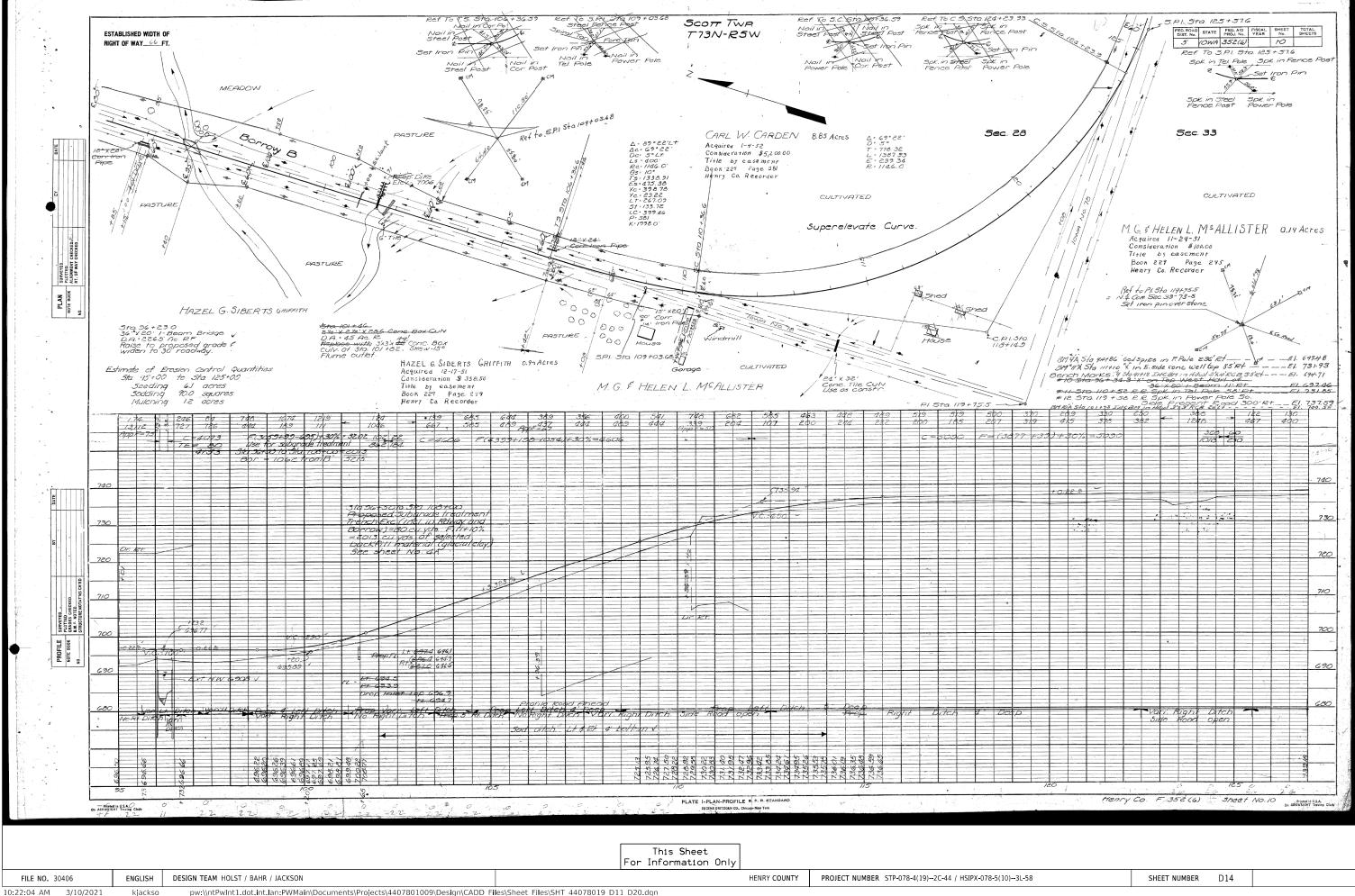


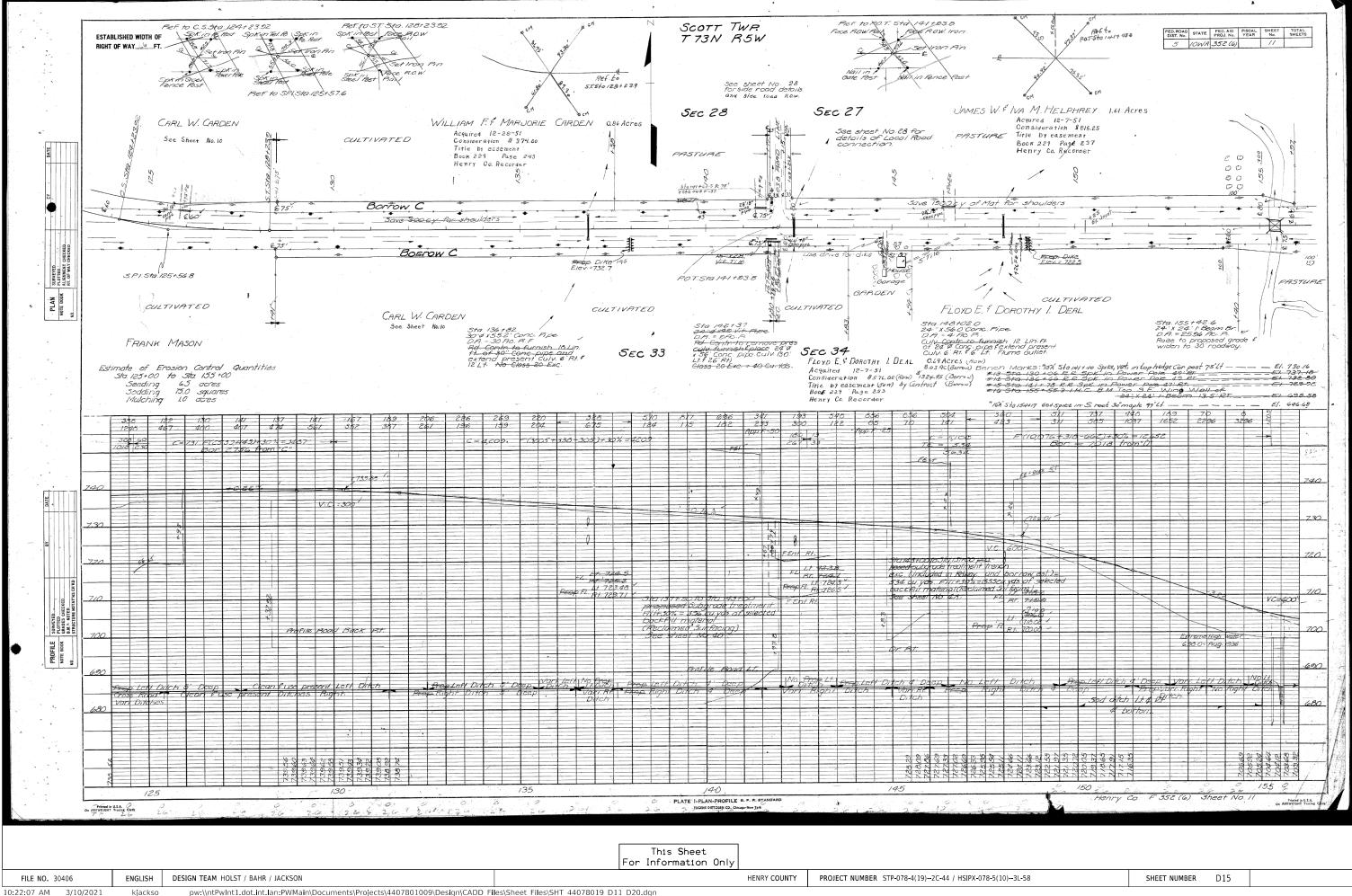


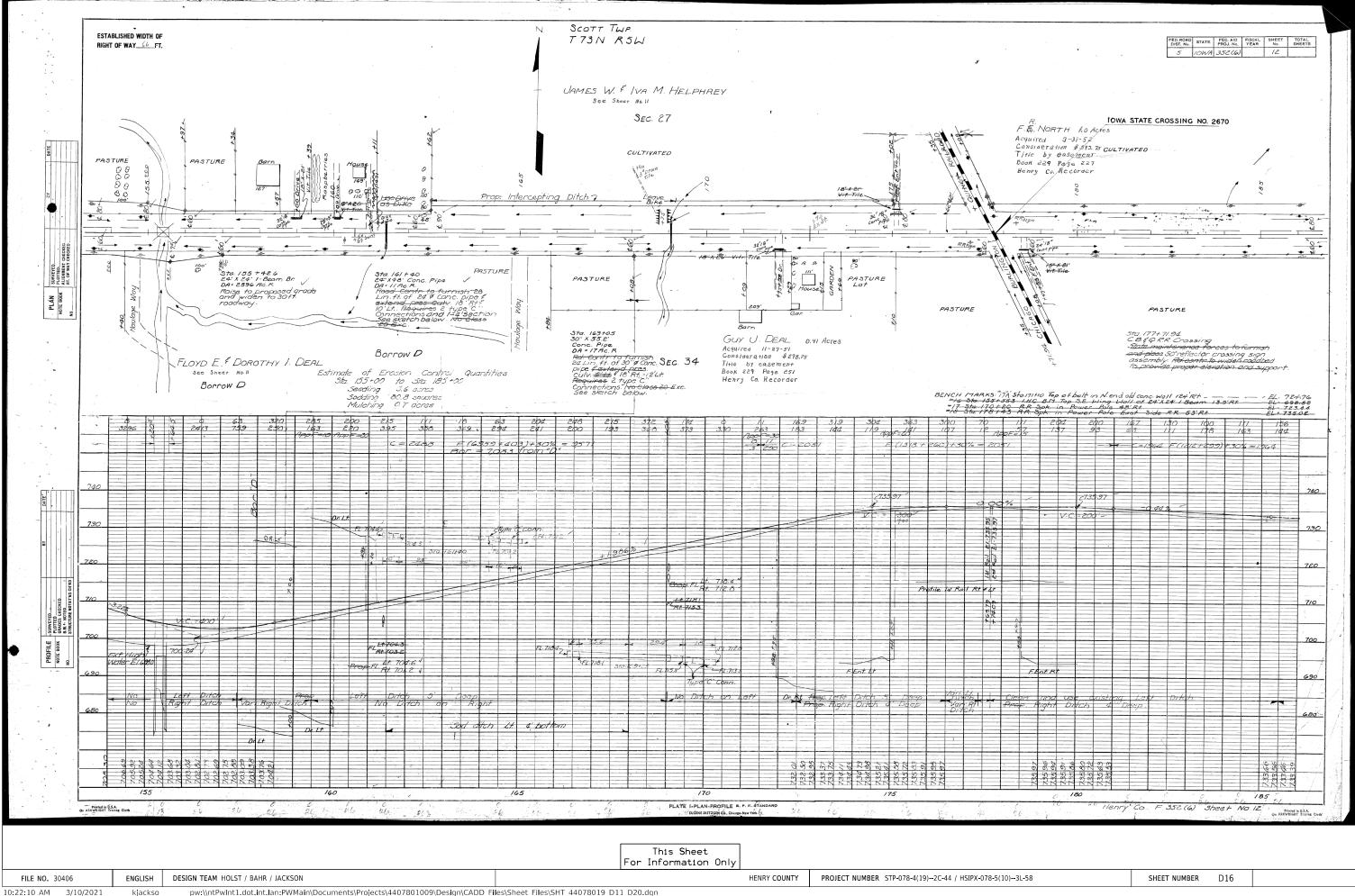


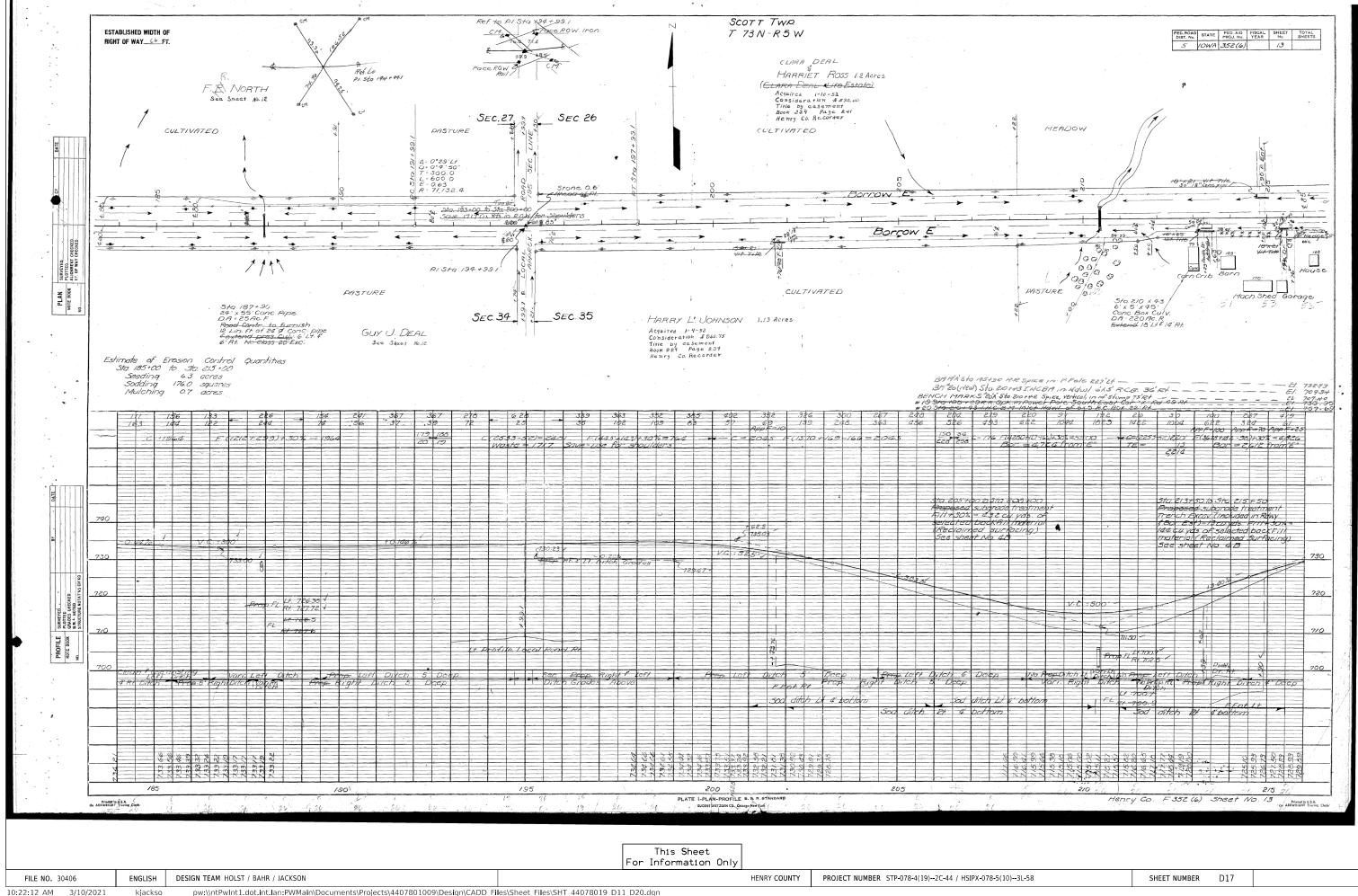


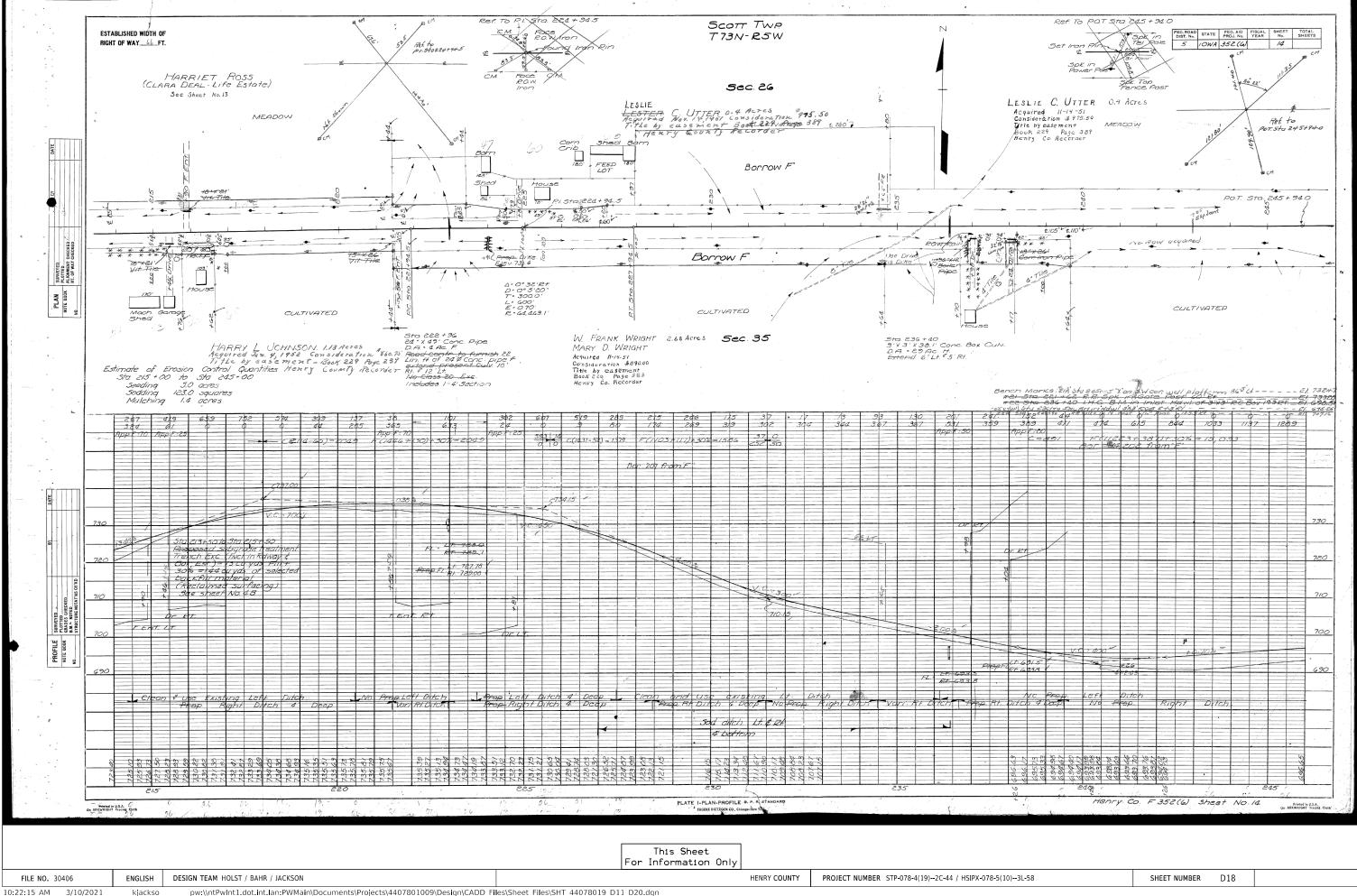


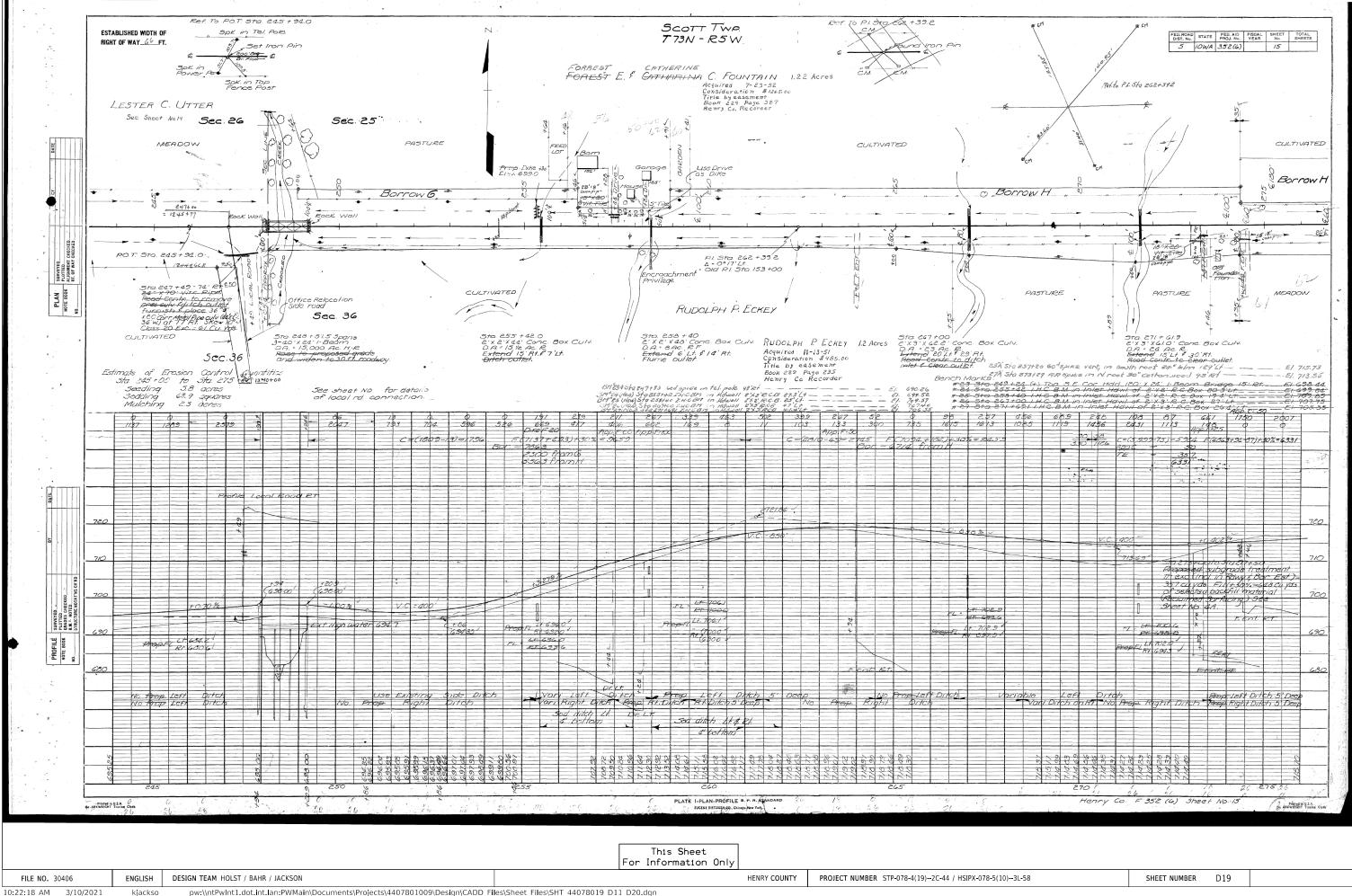


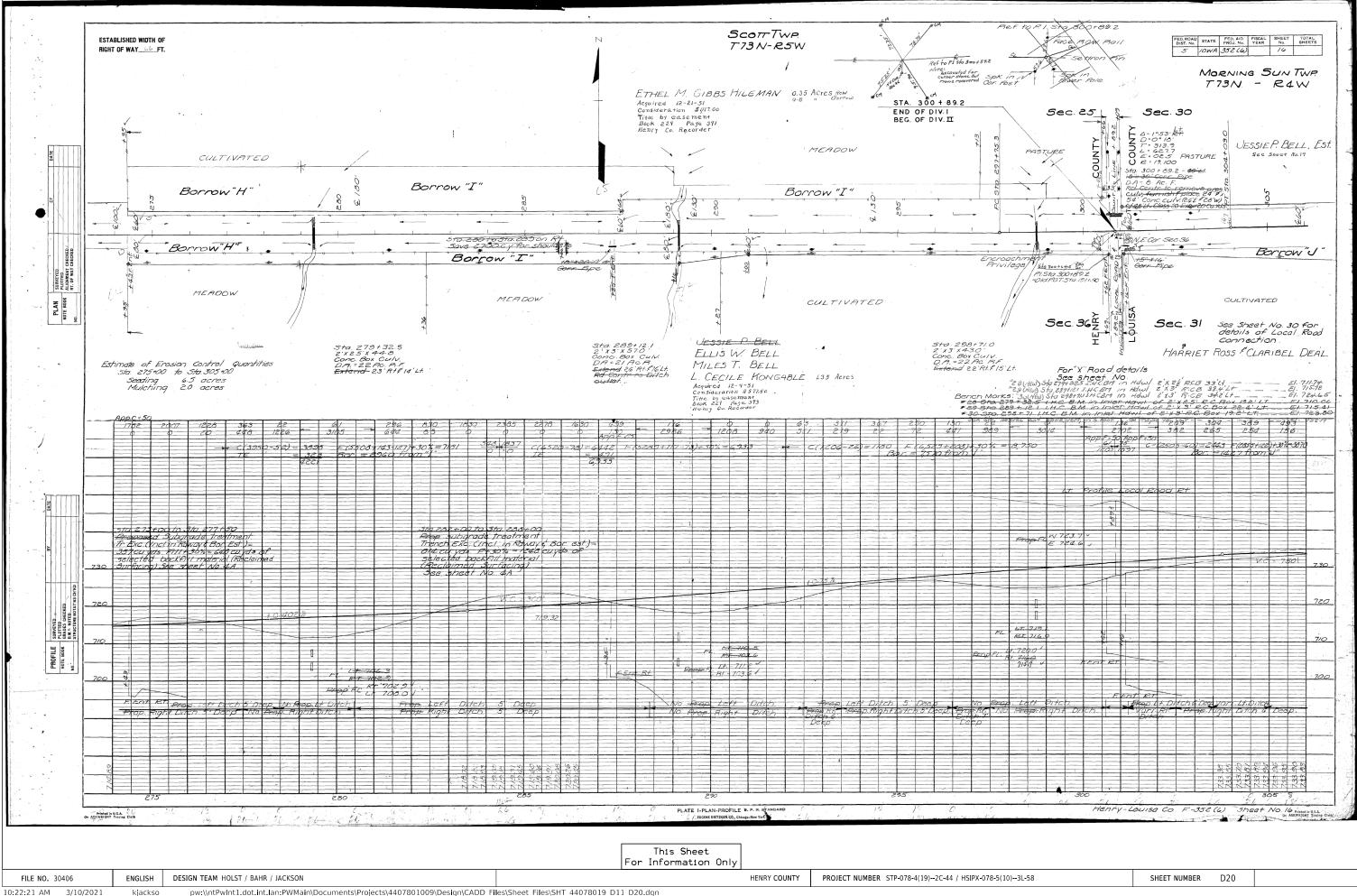


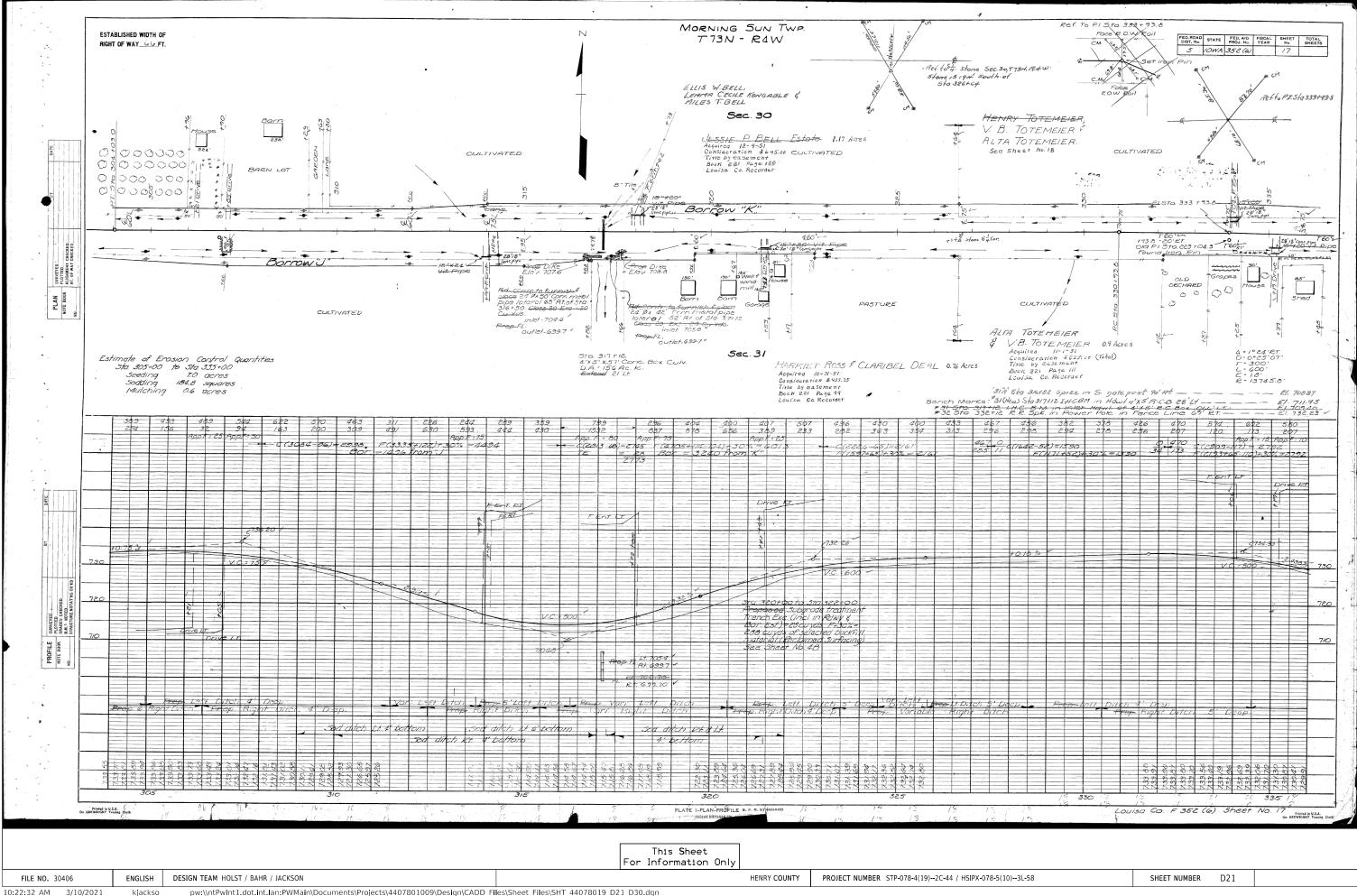


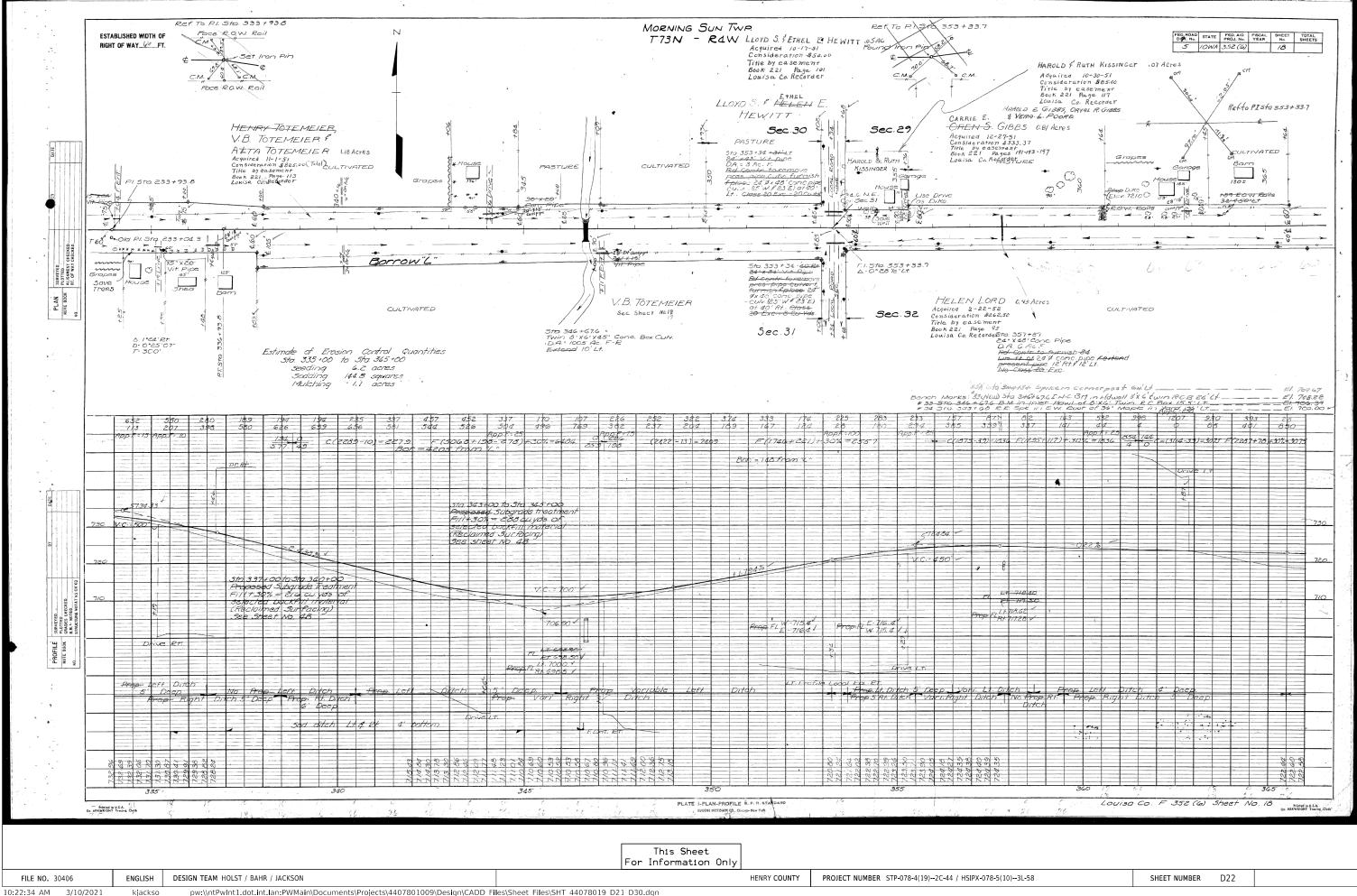


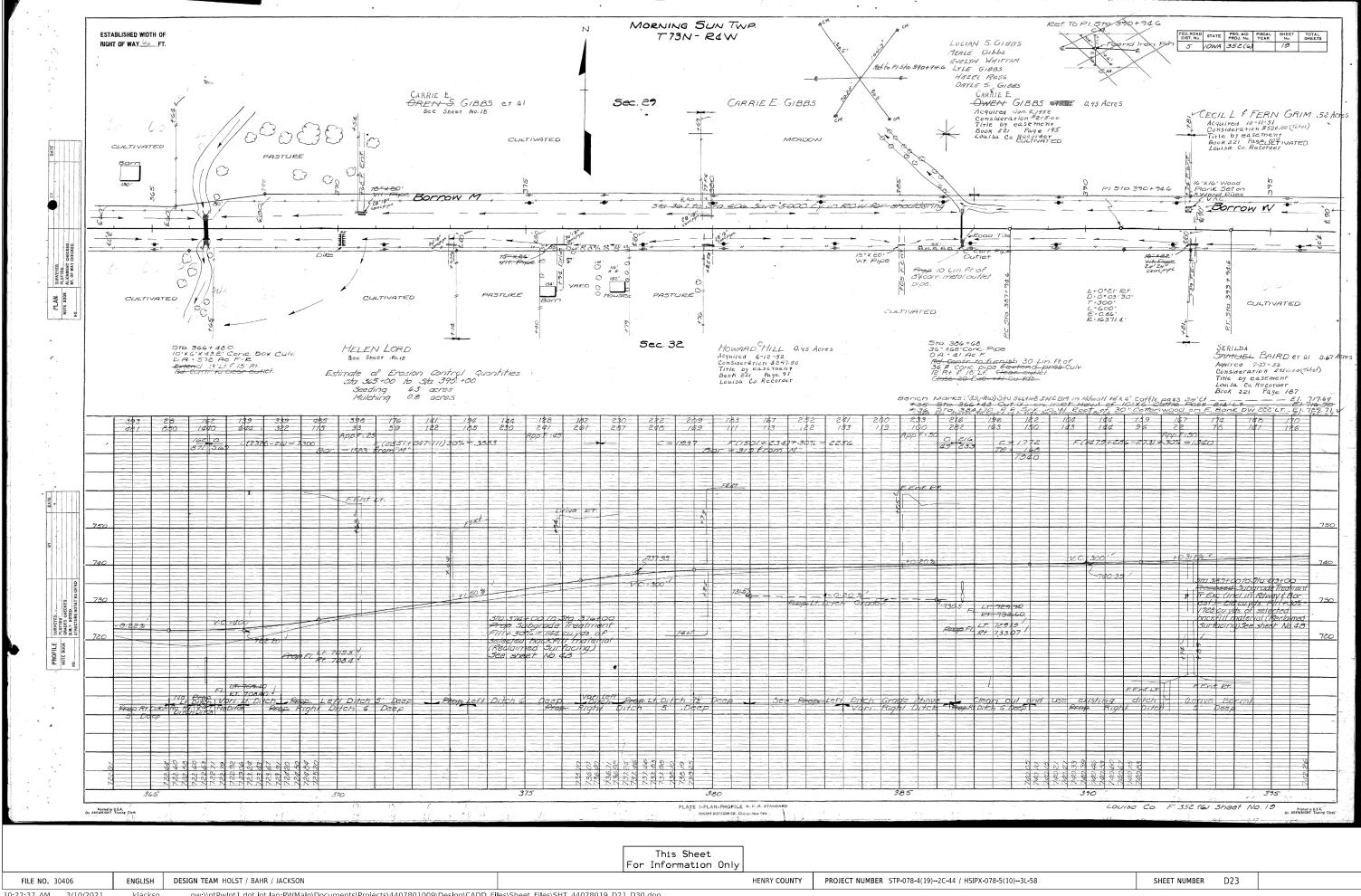


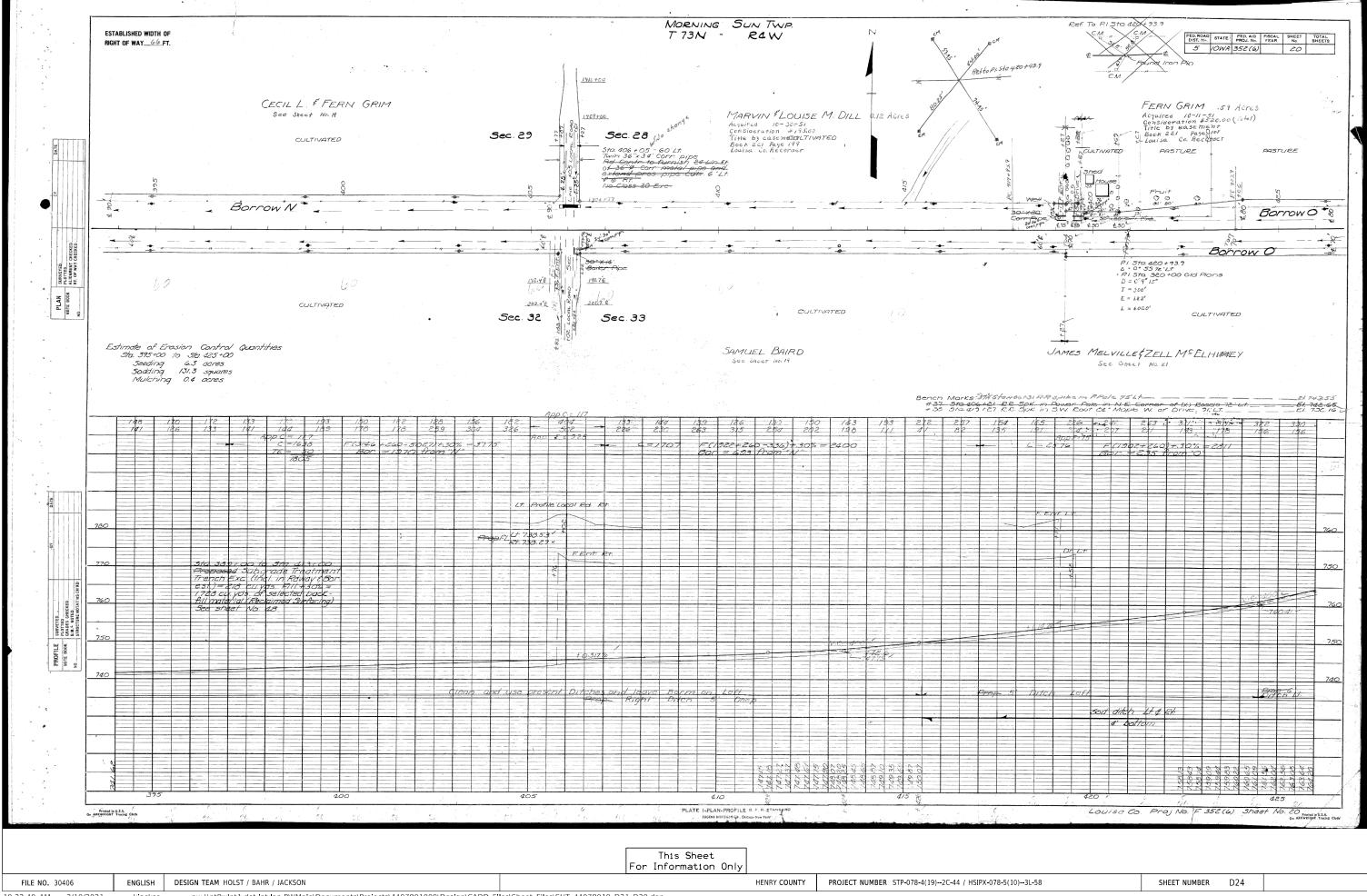


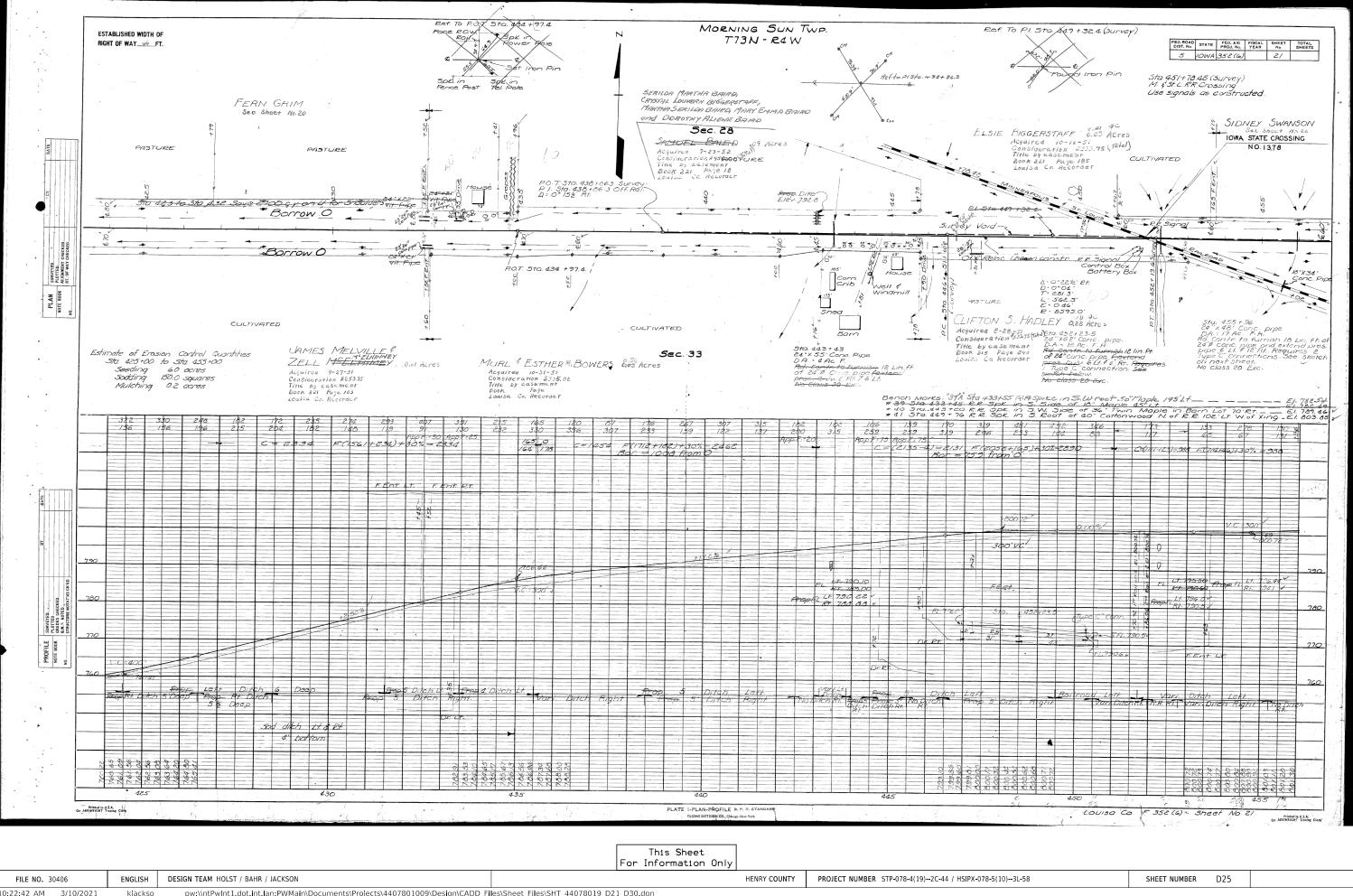


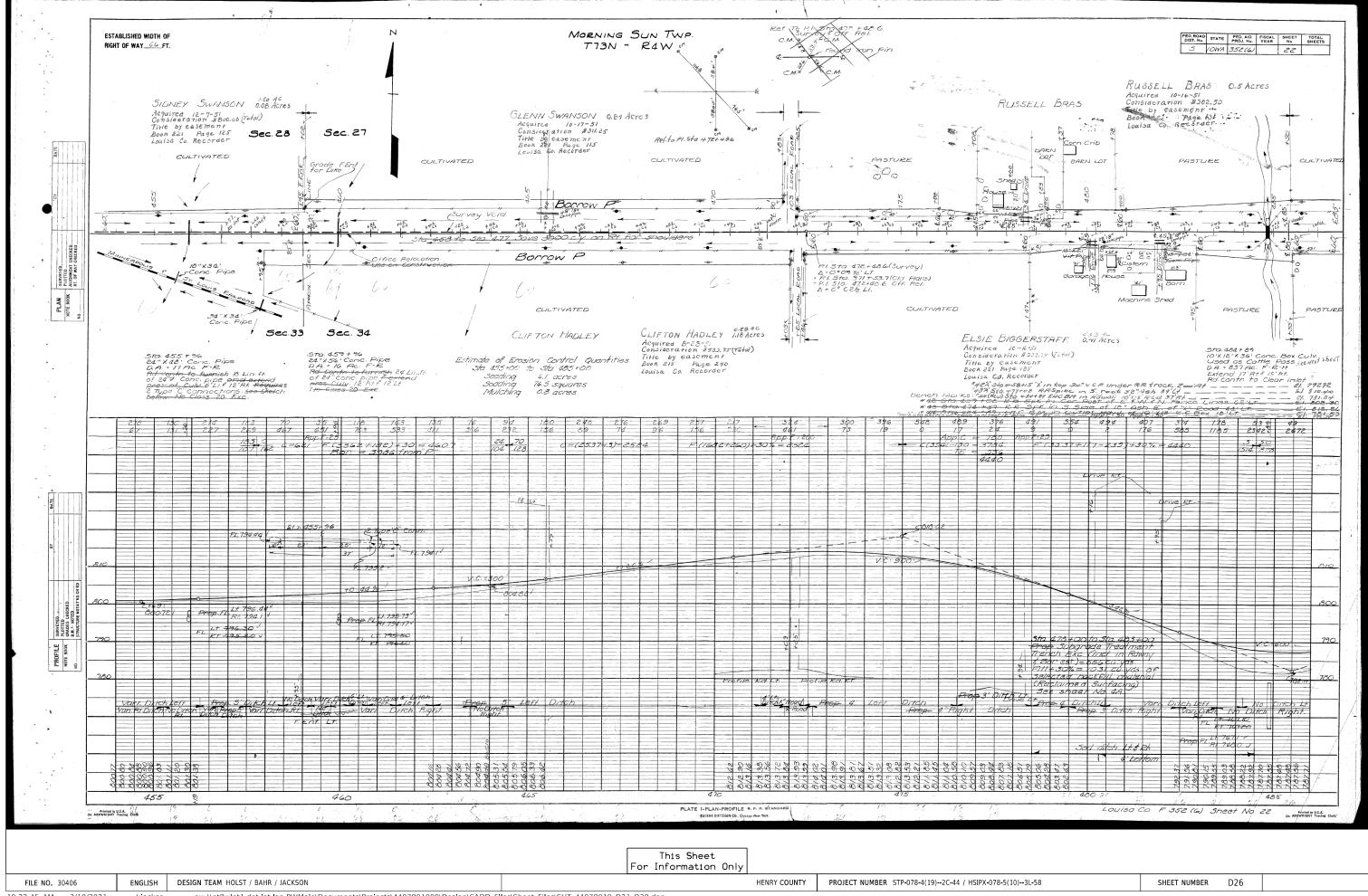


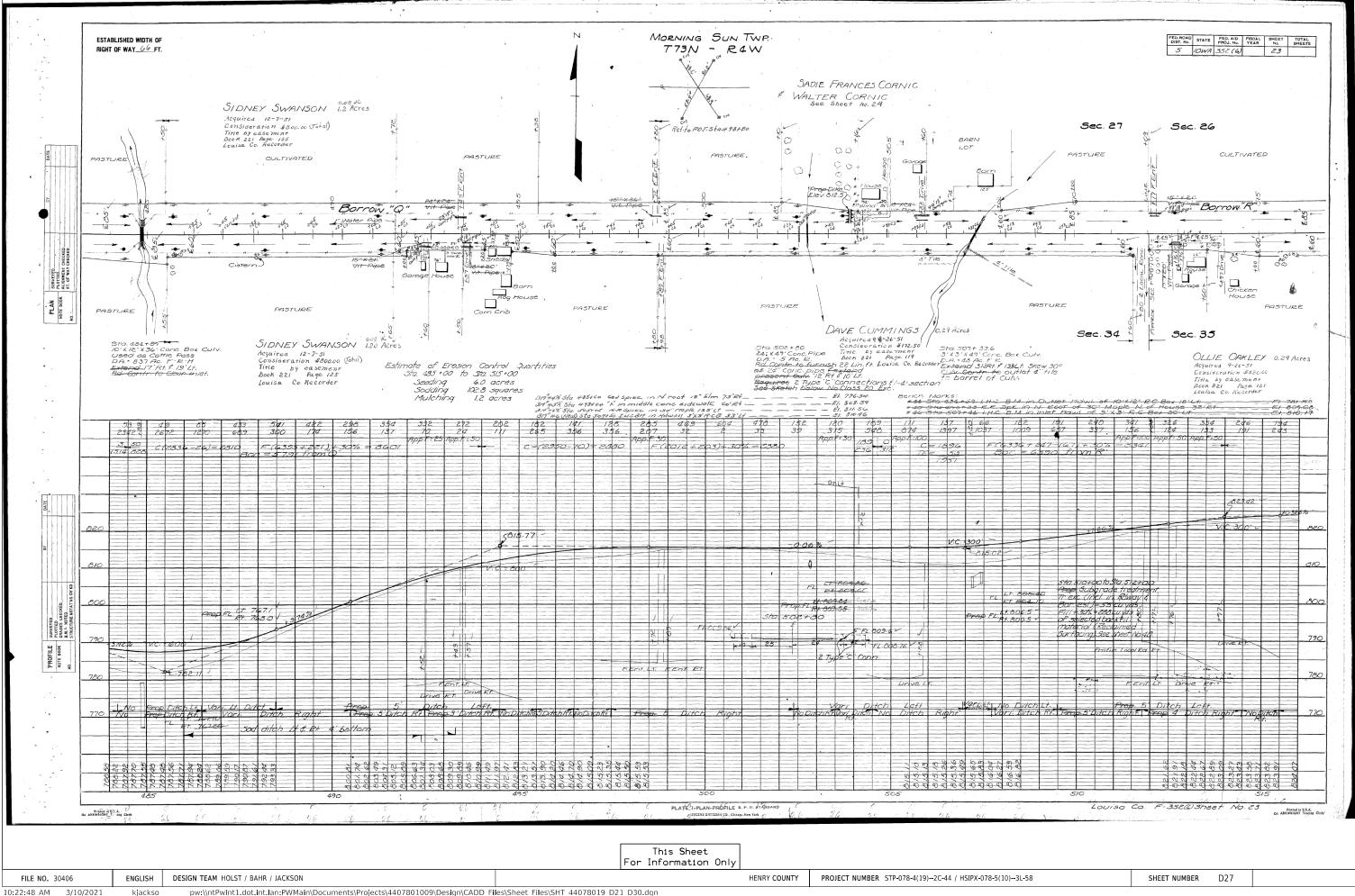


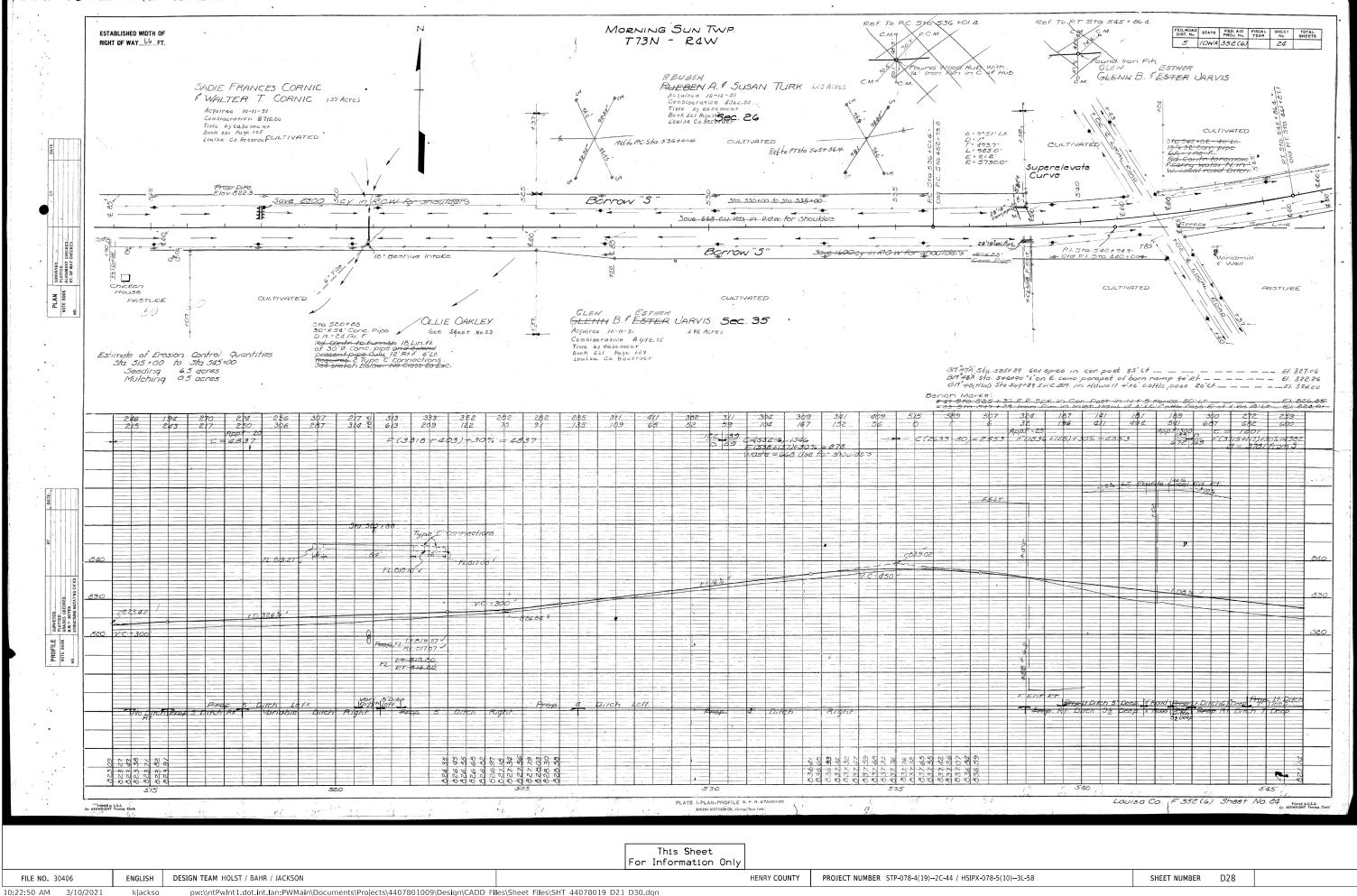


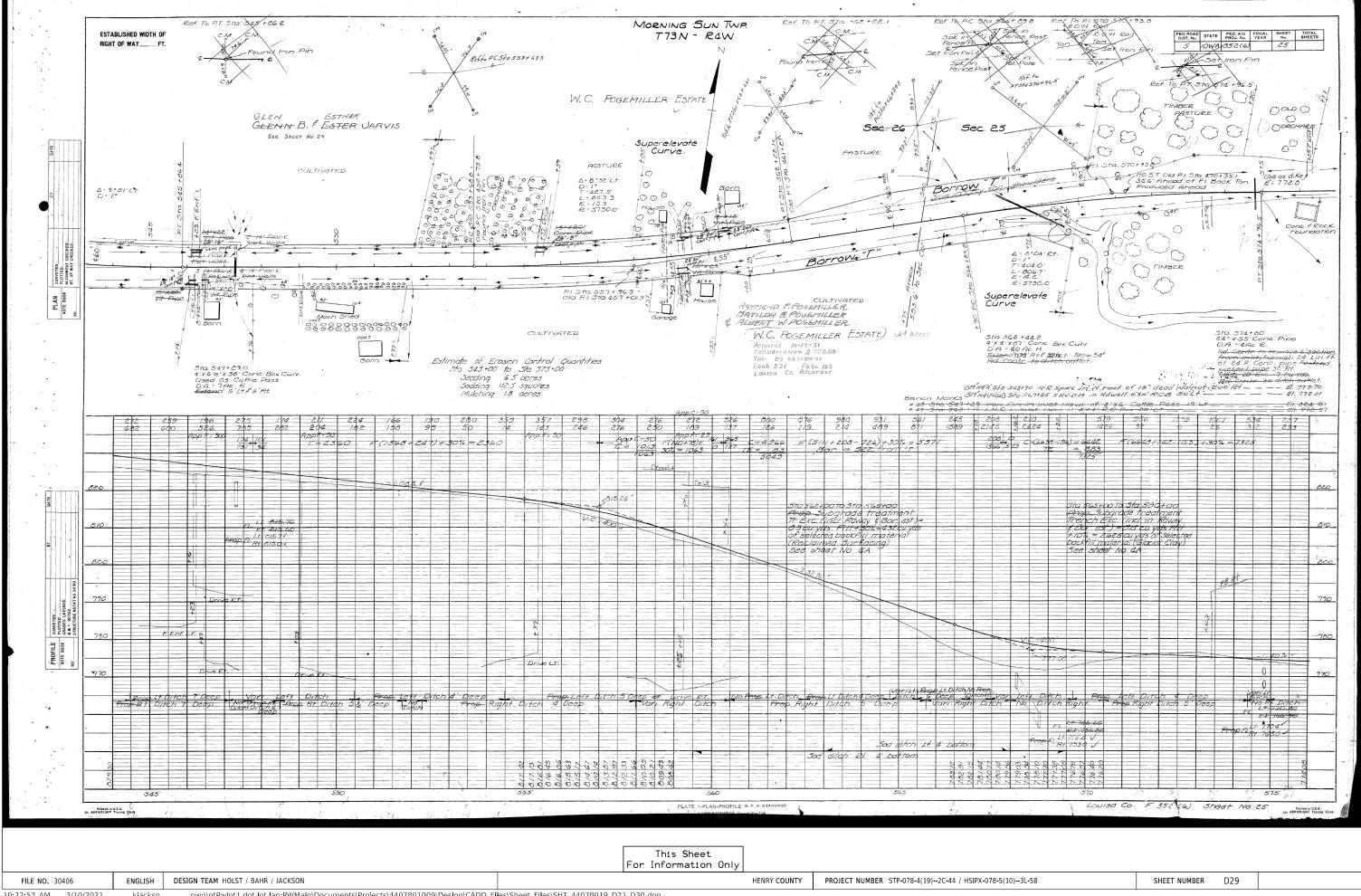


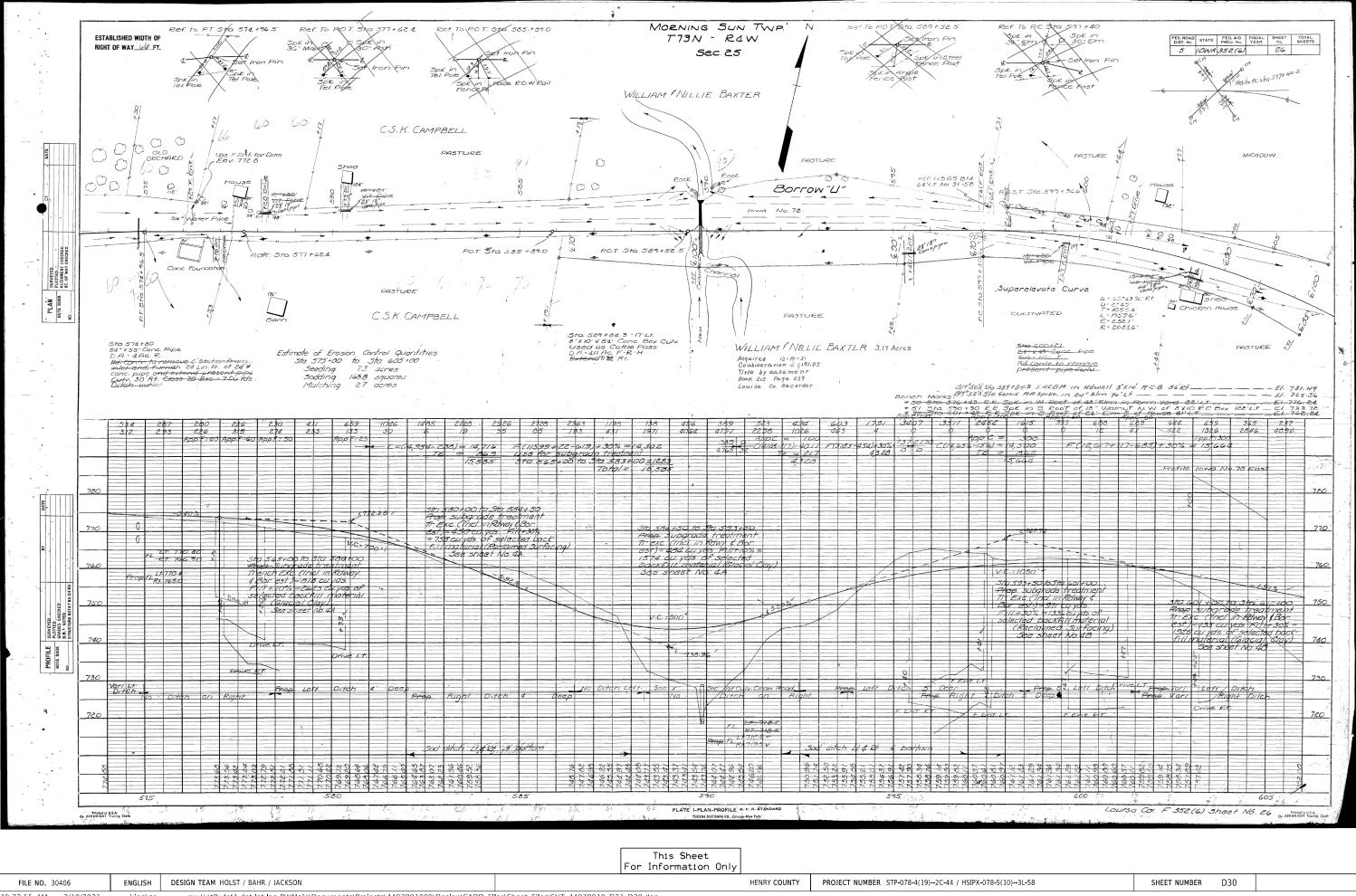


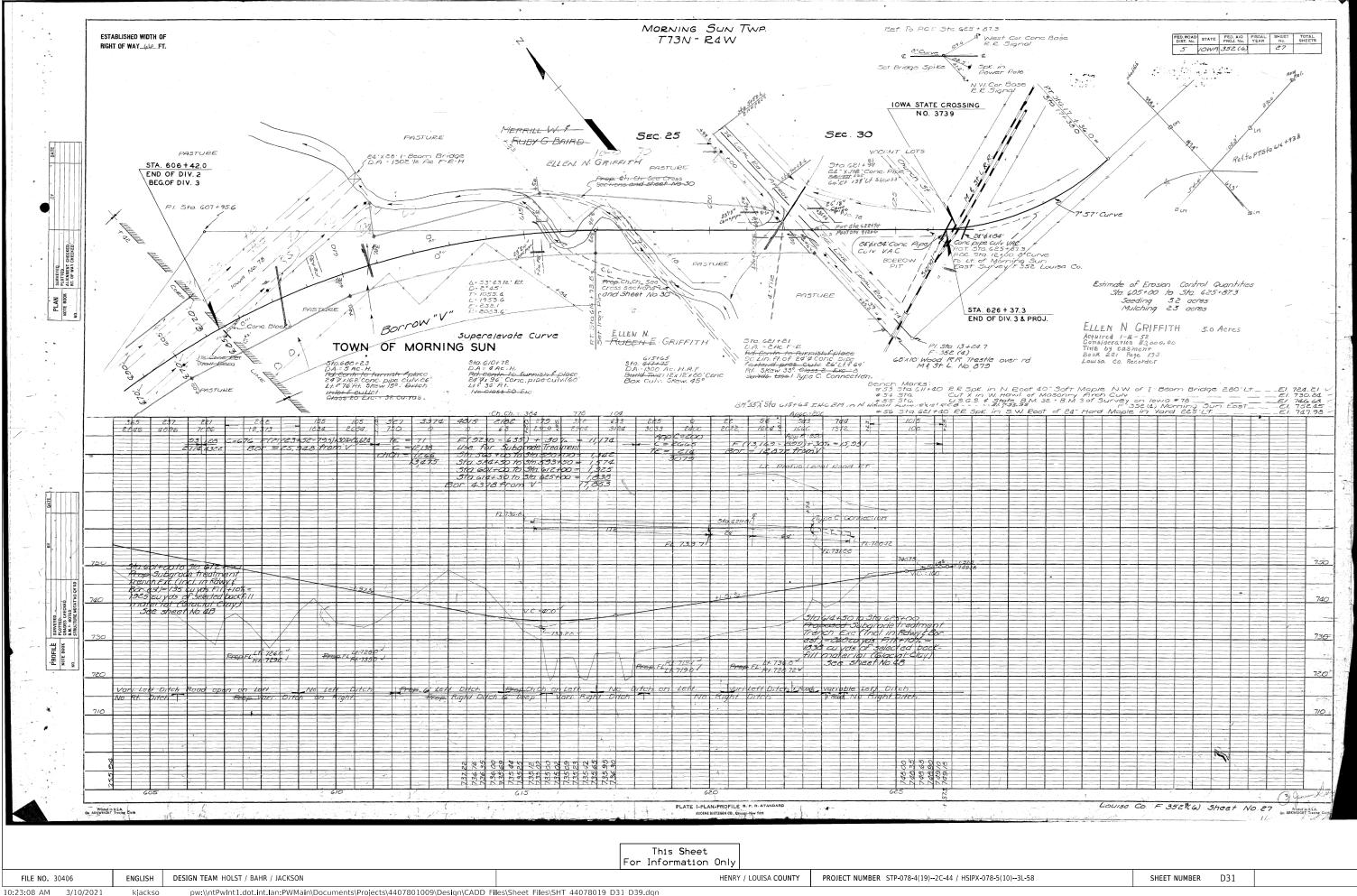


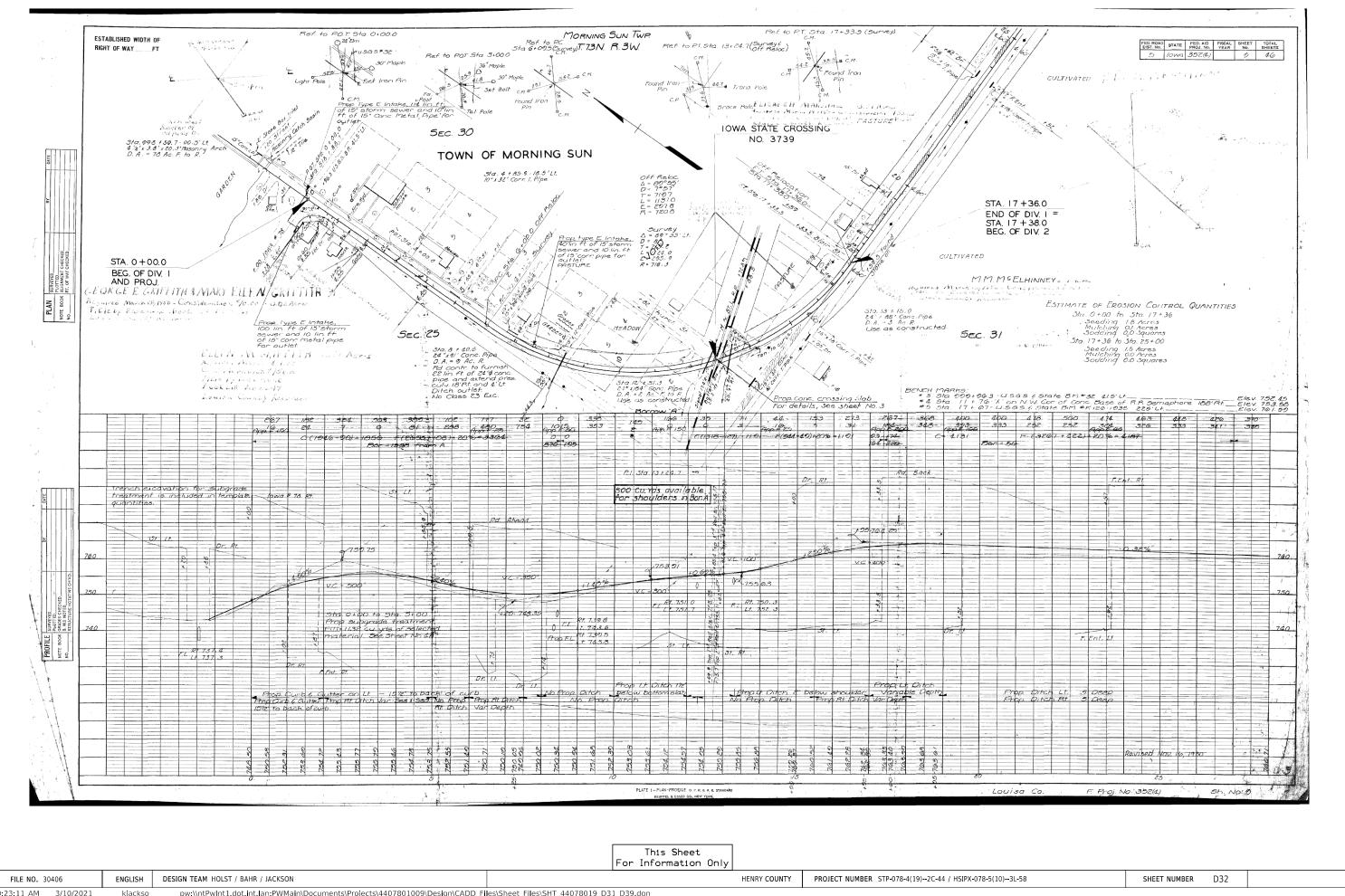


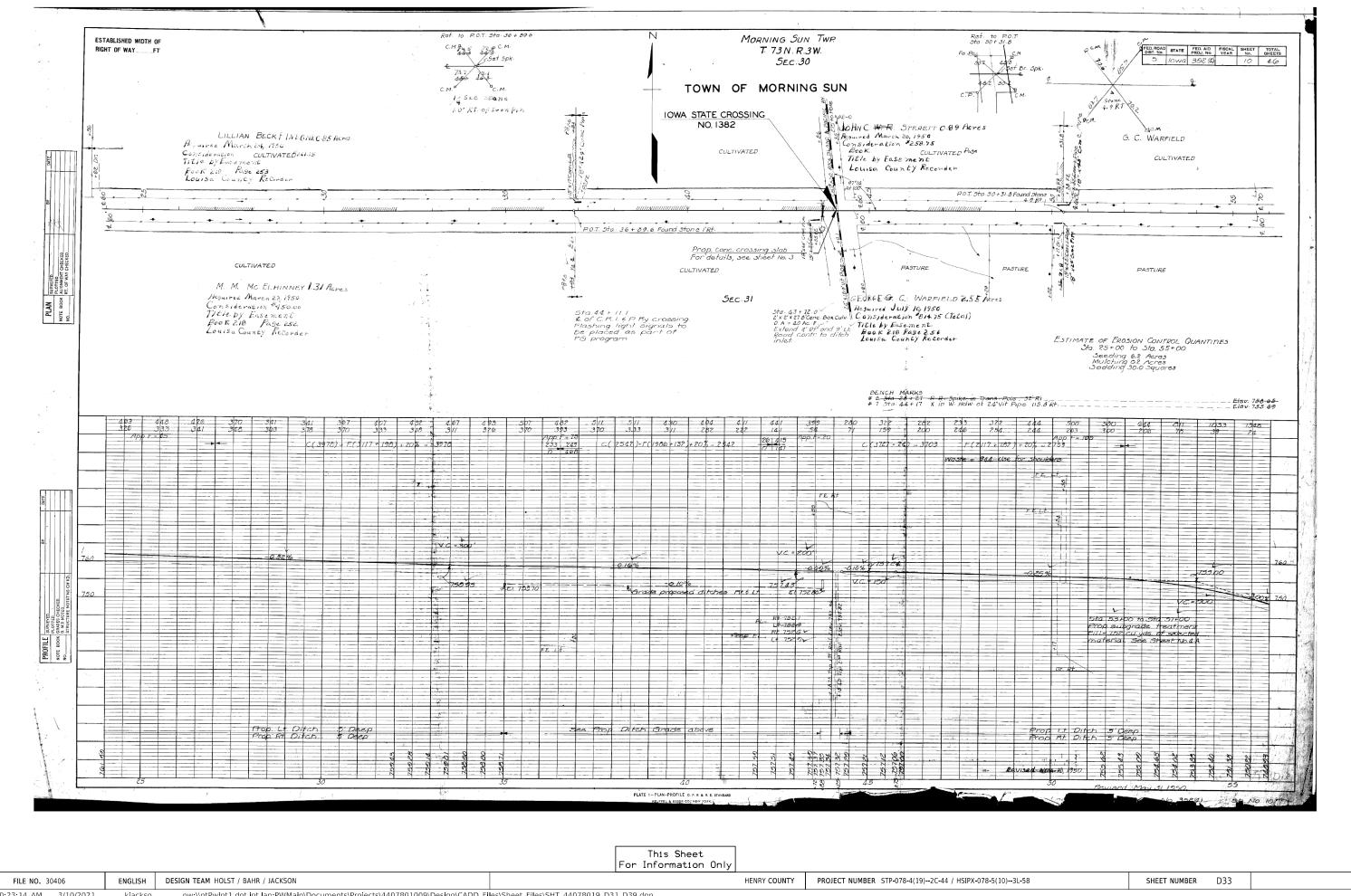


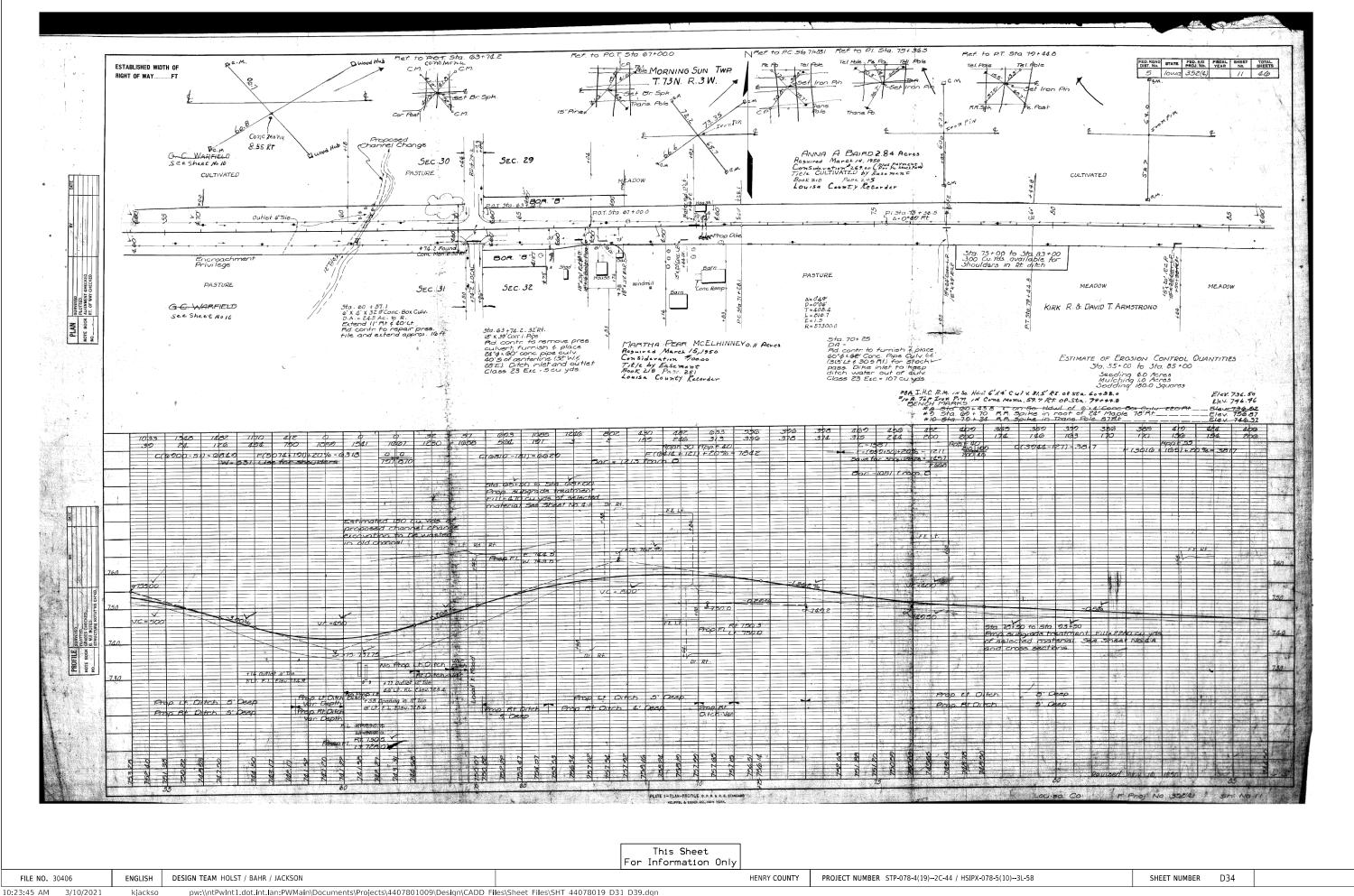


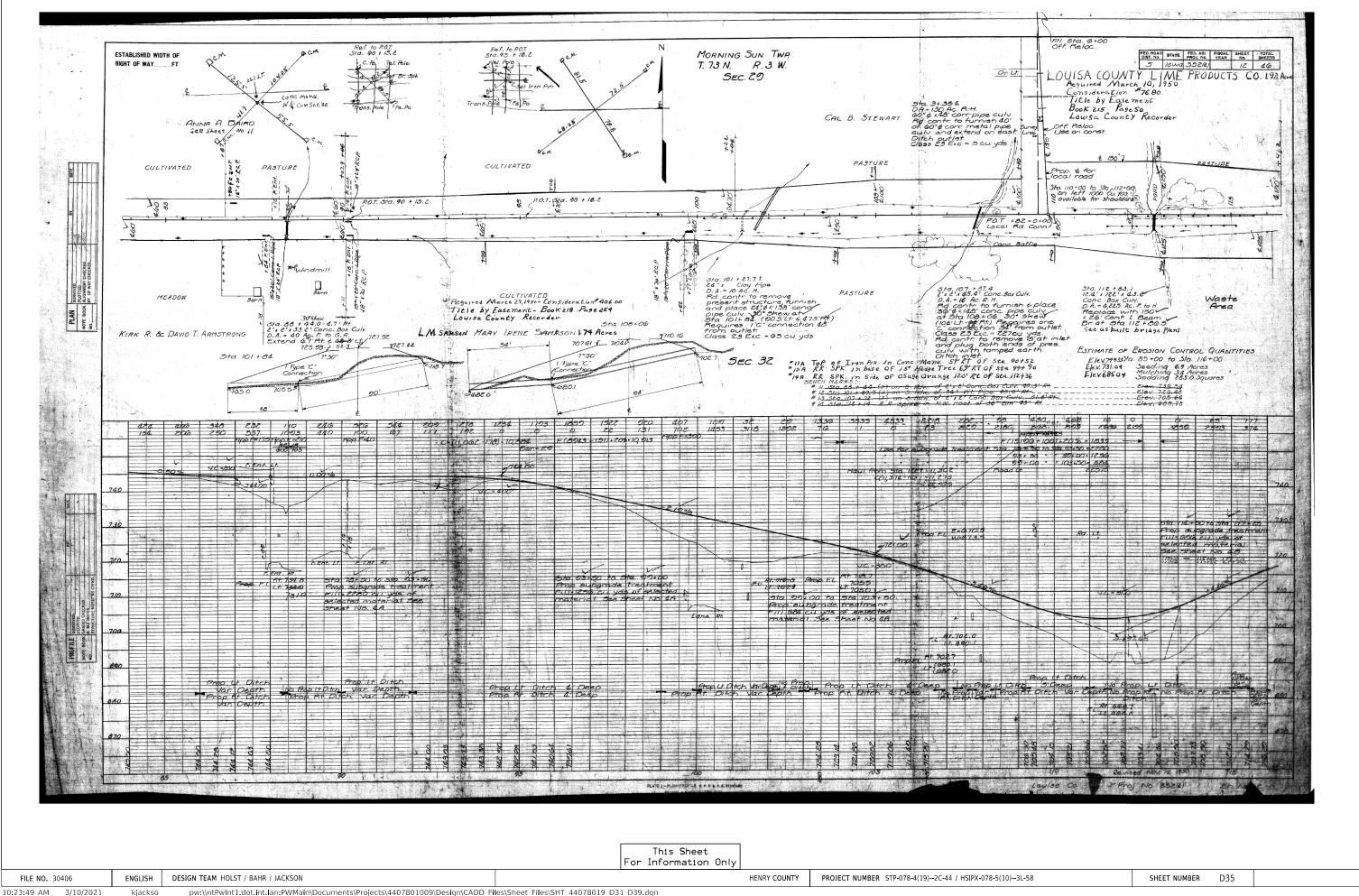


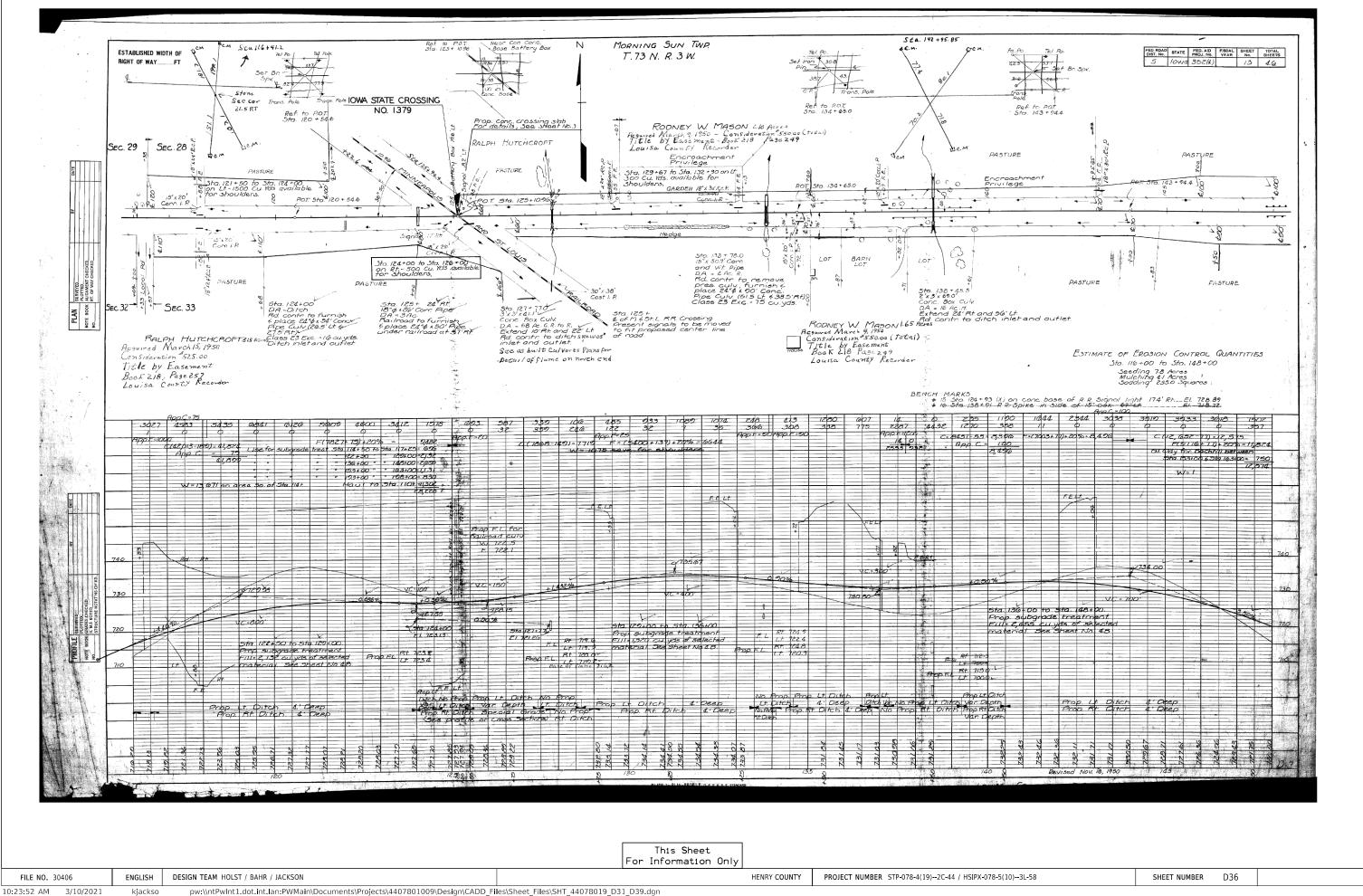


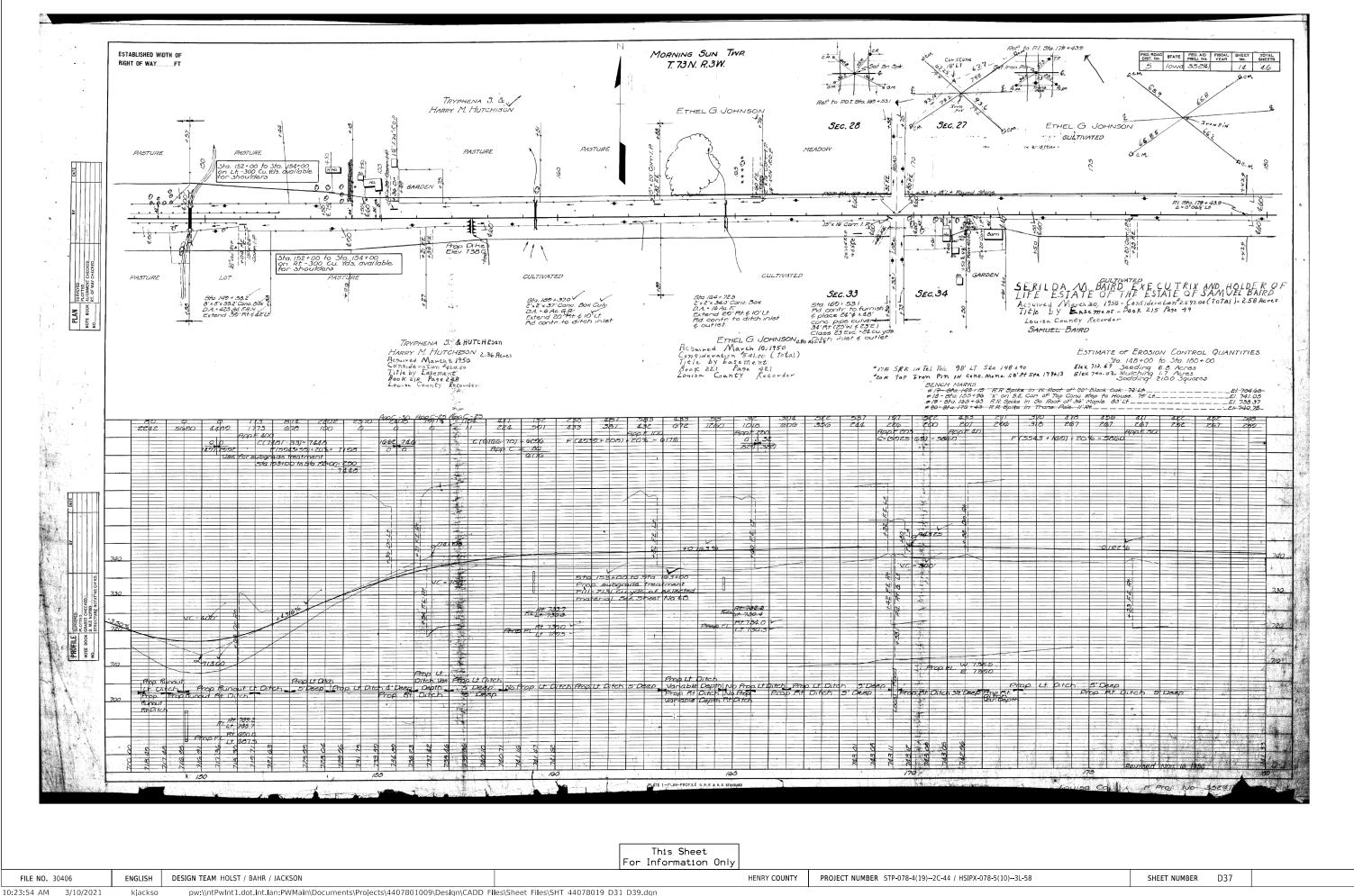


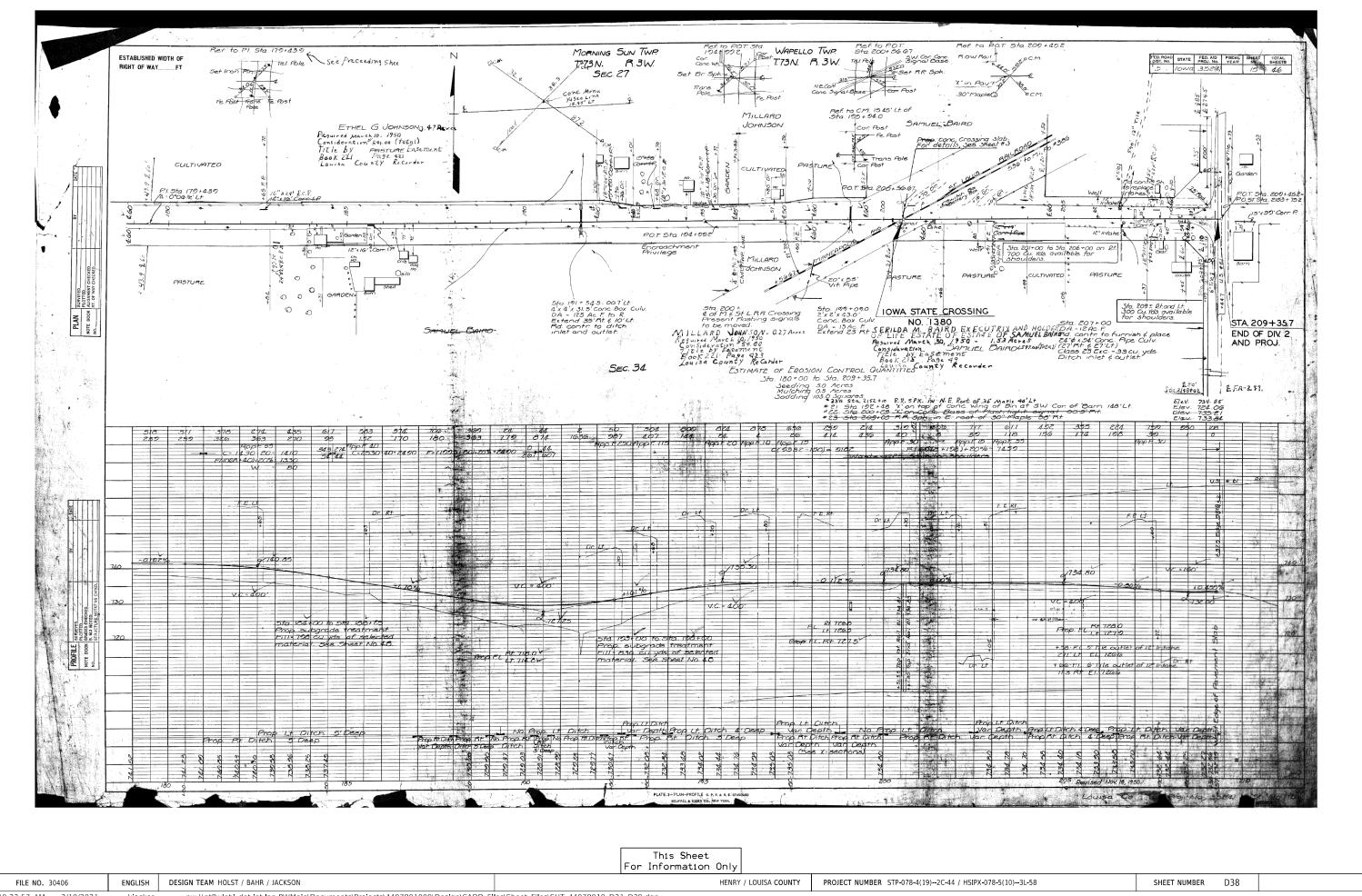


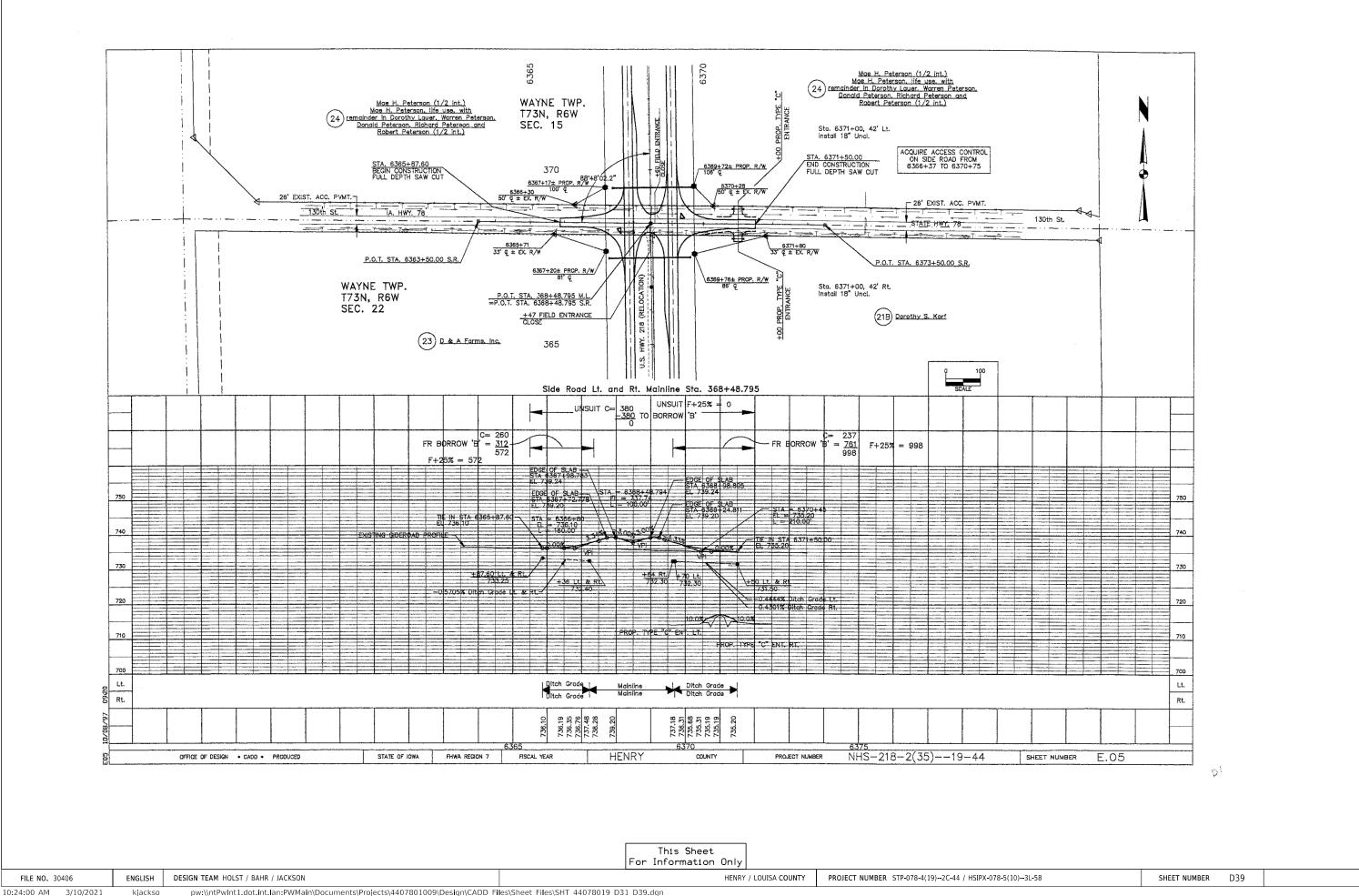












	TRAFFIC CONTROL PLAN	
1. Through traffic shall be maintained	at all times.	
2. Access to all properties shall be m	maintained at all times.	
2. Access to all properties shall be m	daintaineu at air times.	

FIELD EXAM NOTES:

Projects requiring Coordination and a list of Tied Projects to be verified as project develops (Tied Projects do not need to be mentioned in the Coordinated Operations tab).

	,,,
04-17-	1:
07 17	

COORDINATED OPERATIONS

Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the

Project	Type of Work
None anticipated	

10-21-14

511 TRAVEL RESTRICTIONS

Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
			No restrictions anticipated.									

FIELD EXAM NOTES:

Special Events to be added: Morning Sun July 4th Event (additional Events to be researched). RAGBRAI and TRACTORCADE Events shall be omitted from Special Events unless dates and locations are verified by Contracts Turn-In.

FIELD EXAM NOTES:

A "Suggested Sequence of Construction" shall be added to the J sheet. The Sequence shall indicate that the construction of the CIR course shall come before the installation of the Paved Shoulder (see Morning Sun to US 61 typical on Sheet B3). Such an order of operation will allow the CIR to cure better (rationale not needed on J-Sheet).