

FED. ROAD DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	503 B	1931

1/108

STATE OF OHIO  
DEPARTMENT OF HIGHWAYS

S.H. & I.C.H. ~ 353 SEC. "N"  
NOBLE COUNTY

# CAMBRIDGE ~ CALDWELL ROAD

S.H. & I.C.H. ~ 353 SEC. N PET. N<sup>o</sup>.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THE IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON THE PLANS AND R/W WILL BE PROVIDED.

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO DIVISION OF HIGHWAYS IN FORCE ON DATE OF CONTRACT WILL GOVERN THIS IMPROVEMENT.

NOBLE COUNTY  
NOBLE TOWNSHIP APRIL 1930

APPROVED *Chas. A. Ferguson*  
DATE: 4/3/30 RESIDENT DISTRICT DEPUTY DIRECTOR

APPROVED *Ralph M. Strait*  
DATE: 4/7/30 RESIDENT DIVISION DEPUTY DIRECTOR

APPROVED *Robt. S. Bright*  
DATE: 4/10/30 CHIEF ENGINEER BUREAU OF CONSTRUCTION

APPROVED \_\_\_\_\_  
DATE: \_\_\_\_\_ CHIEF ENGINEER BUREAU OF MAINTENANCE

APPROVED *W. Buskey*  
DATE: 4-10-30 CHIEF ENGINEER BUREAU OF BRIDGES

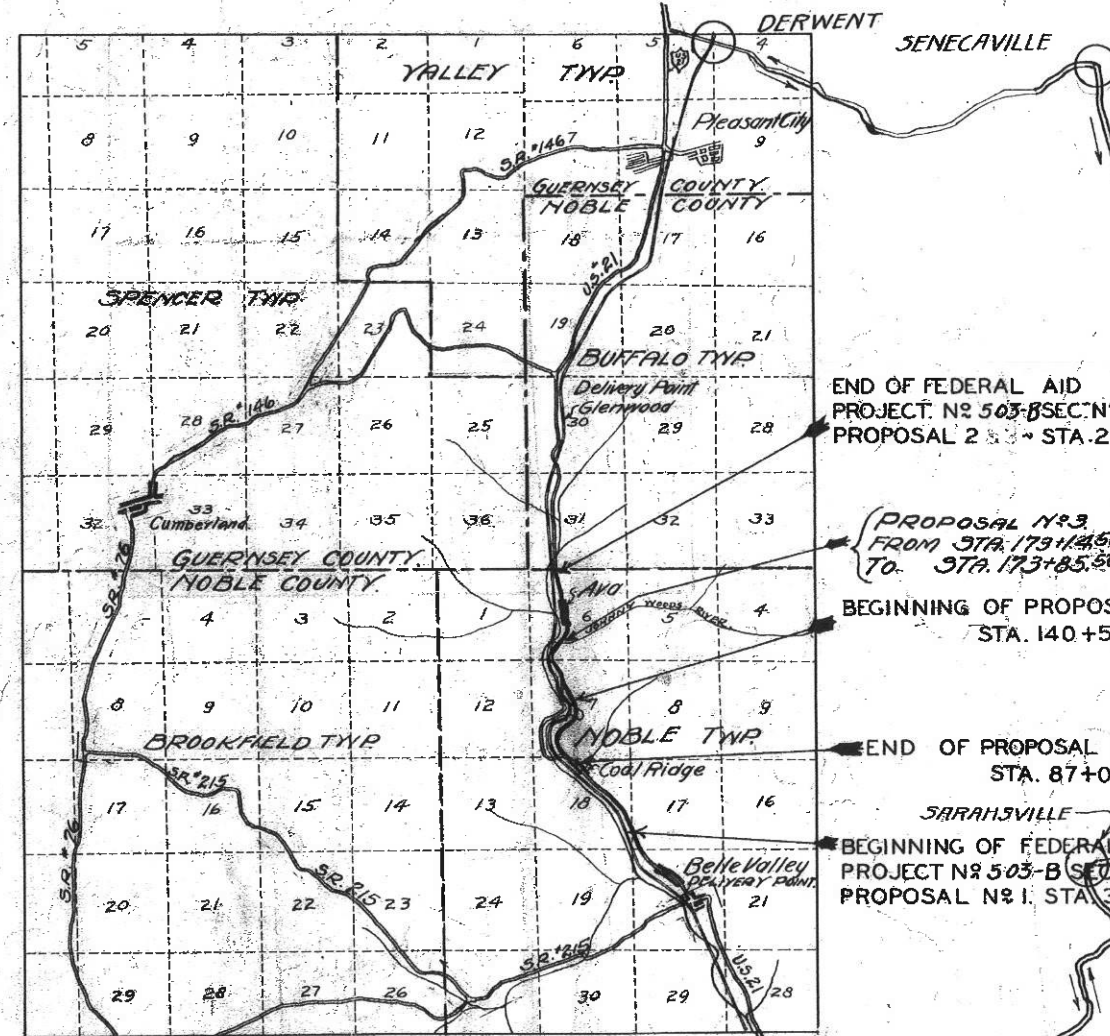
APPROVED *John W. Buskey*  
DATE: 4-10-30 CHIEF ENGINEER & FIRST ASST. DIRECTOR

APPROVED *Robert W. Wood*  
DATE: 4-10-30 DIRECTOR OF HIGHWAYS

RECOMMENDED FOR APPROVAL \_\_\_\_\_  
DATE: \_\_\_\_\_ DISTRICT ENGINEER BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL \_\_\_\_\_  
DATE: \_\_\_\_\_ CHIEF ENGINEER BUREAU OF PUBLIC ROADS

APPROVED \_\_\_\_\_  
DATE: \_\_\_\_\_ CHIEF OF BUREAU



LOCATION PLAN

CONVENTIONAL SIGNS

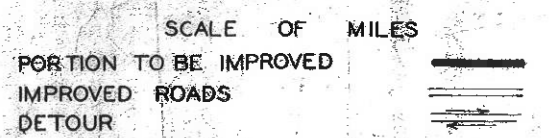
STATE LINE	-----
COUNTY LINE	-----
TOWNSHIP LINE	-----
SECTION LINE	-----
PROPERTY LINE NOT FENCED	-----
CENTER LINE	o-----o
CITY OR VILLAGE LINE	-----
FENCE	-----
TELEPHONE OR TELEGRAPH	TTTTTTTT
STEAM RAILROAD	=====
ELECTRIC LINE	-----
GUARD RAIL	-----
DRAIN PIPE NEW	-----
DRAIN PIPE OLD	-----

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SCALES

PLAN	1" = 100'
PROFILE VERTICAL	1" = 10'
PROFILE HORIZONTAL	1" = 100'
CROSS SECTIONS	1" = 5'



GROSS LENGTH OF PROJECT = 17,853.01 FT. ~ 3.3812 MILES  
NET LENGTH OF PROJECT = 12,498.01 FT. ~ 2.3670 MILES

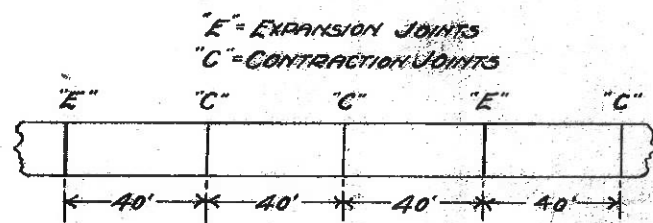
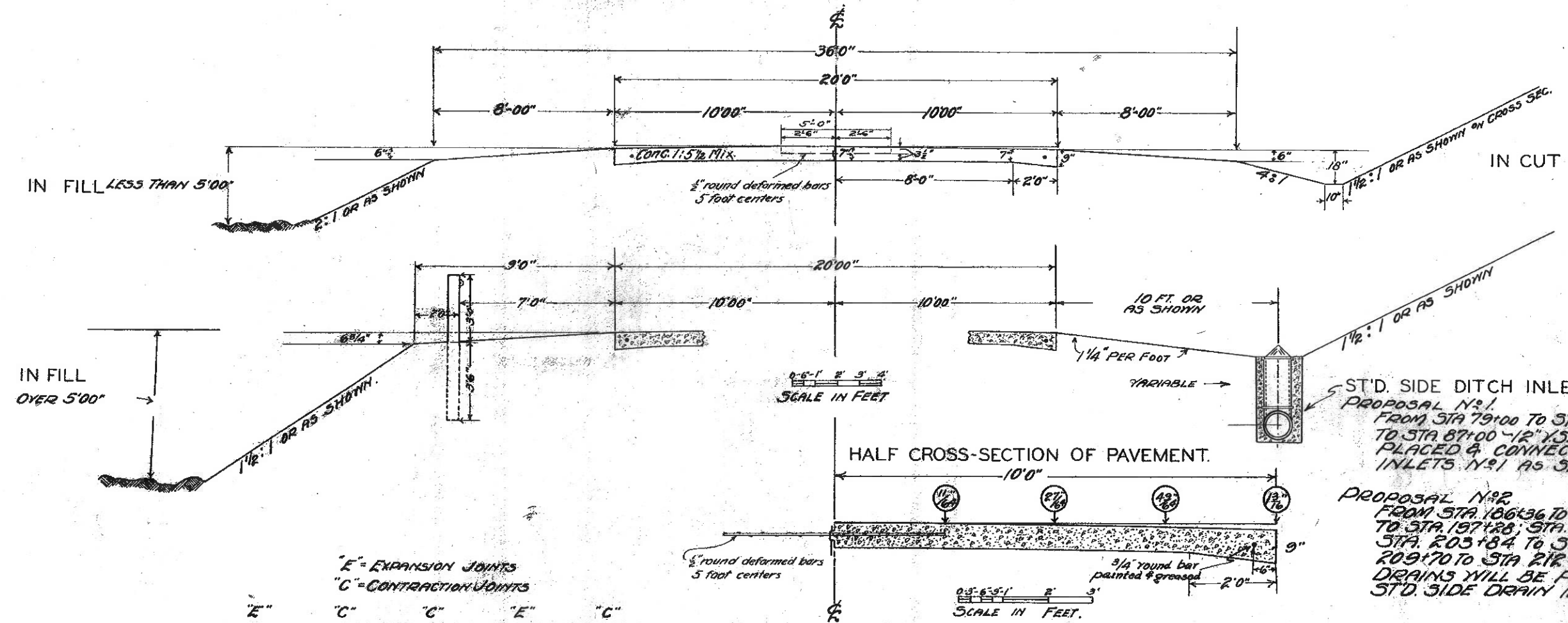
SUPPLEMENTAL PRINTS OF STRUCTURAL STANDARDS STD. CONSTRUCTION DRAWINGS No's. BC-A; 95; 98; 300; SC-A; B-36-2430; CW-A; 305; SB-2430; 105; AS-2430; TA-B; PRA;

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TYPE - "C"  
ITEM - "T-7"  
CONSTRUCTION DRAWING NO. 98 or 100. & 143.



CONTRACTION & EXPANSION JOINTS TO CONFORM TO CONSTRUCTION DRAWING N° 95.  
If river aggregate is used, space the above joints 30' instead of 40'.

TYPICAL SECTION

FROM STA 79+00 TO STA 80+08 & STA 80+28 TO STA 87+00 - 12" V.S.P. SIDE DRAIN WILL BE PLACED & CONNECTED TO STD. SIDE DRAIN INLETS N°1 AS SHOWN.

FROM STA 186+36 TO STA 189+00; STA 191+08 TO STA 197+28; STA 200+24 TO STA 201+52; STA 203+84 TO STA 208+00 & STA 209+70 TO STA 212+54 - 12" V.S.P. STD. SII DRAINS WILL BE PLACED & CONNECTED TO STD. SIDE DRAIN INLETS N°1 AS SHOWN.

FROM STA 36+00 TO STA 38+08 REMOVE 428.0 SQ. YDS. CONCRETE PAYEMENT FROM STA 38+08 - STA 87+00 REMOVE PRESENT BRICK PAYEMENT = 8920.050 YDS. BRICK TO BE PILED IN NEAT PILES AT POINTS DESIGNATED BY THE ENGINEER, NOT TO EXCEED 1 (ONE) MILE HAUL. New line Sta. 38+08 to 87+00 = 4892' 4892' x 10/9 = 8697.5 sq yds + 233.9 yds widening = 8920.5 sq yds

FROM STA 140+55 TO STA 214+33 REMOVE PRESENT BRICK PAYEMENT = 15,098.039 YDS. BRICK TO BE PILED IN NEAT PILES AT POINTS DESIGNATED BY THE ENGINEER, NOT TO EXCEED 1 (ONE) MILE HAUL. New line Sta. 140+55 to Sta. 214+33.0 equals 7396.0 lin. ft - present brick road is 3771.24 lin. ft longer than New line. 7396.0 ft x 3.712 x 10/9 = 13812 sq yds + widening of 1286.52 yds. - 13812 + 1286 = 15098.52 sq yds.

Note:  
All buildings on the R/W are to be removed by the State.

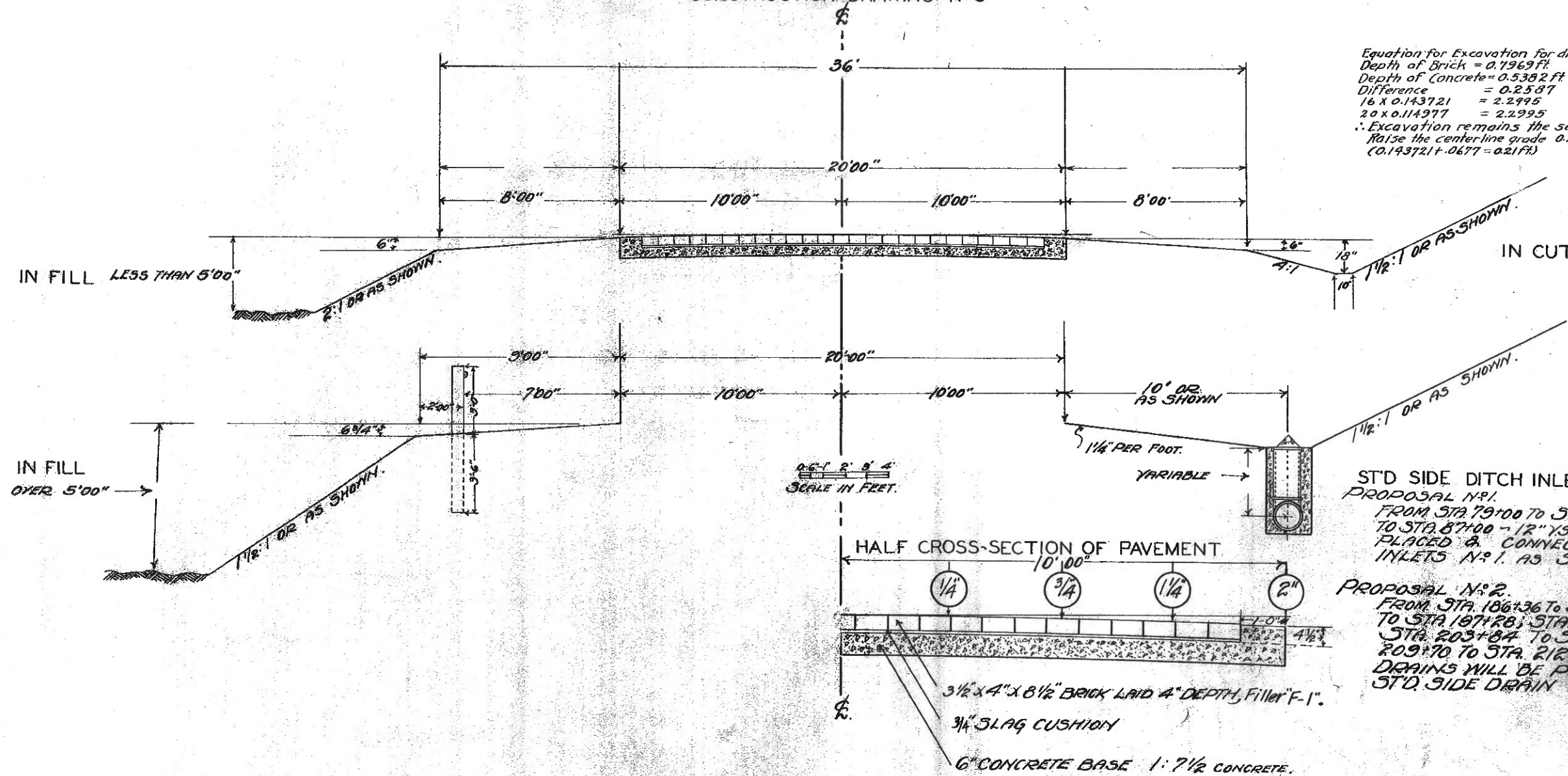
FED. ROAD DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
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108

S.H.-I.C.H. 353.  
NOBLE

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TYPE "B-C"  
ITEM "T-9" & "B-5"  
CONSTRUCTION DRAWING NOS.



Equation for Excavation for different types.  
Depth of Brick = 0.1969 ft  
Depth of Concrete = 0.5382 ft  
Difference = 0.2587  
16 x 0.143721 = 2.2995  
20 x 0.114977 = 2.2995  
∴ Excavation remains the same.  
Raise the center line grade 0.21 ft for brick.  
(0.143721 + 0.0677 = 0.21 ft)

ST'D SIDE DITCH INLET  
PROPOSAL N<sup>o</sup> 1.  
FROM STA. 79+00 TO STA. 80+08 & STA. 80+28  
TO STA. 87+00 - 12" Y.S.P. SIDE DRAIN WILL BE  
PLACED & CONNECTED TO STD. SIDE DRAIN  
INLETS N<sup>o</sup> 1. AS SHOWN.

PROPOSAL N<sup>o</sup> 2.  
FROM STA. 186+36 TO STA. 189+00; STA. 191+08  
TO STA. 197+28; STA. 200+24 TO STA. 201+52;  
STA. 203+84 TO STA. 208+00 & STA.  
209+70 TO STA. 212+54 - 12" Y.S.P. SIDE  
DRAINS WILL BE PLACED & CONNECTED TO  
STD. SIDE DRAIN INLETS N<sup>o</sup> 1 AS SHOWN.

PROPOSAL N<sup>o</sup> 1.  
FROM STA. 36+00 TO STA. 38+08 REMOVE  
420,030 YDS. CONCRETE PAYMENT.  
FROM STA. 38+08 TO STA. 87+00 REMOVE PRESENT  
BRICK PAYMENT - CLEAN & RELAY SATISFACTORY.  
BRICK - BRICK NOT USED IN THIS PROPOSAL  
TO BE PAID IN NEAT PILES AT POINTS DESIGN-  
ATED BY THE ENGINEER - HAUL NOT TO  
EXCEED ONE (1) MILE.

PROPOSAL N<sup>o</sup> 2.  
FROM STA. 140+55 TO STA. 214+33 REMOVE  
PRESENT BRICK PAYMENT = 15,098,000 YDS.  
BRICK IN SATISFACTORY CONDITION TO BE  
CLEANED & RELAY - BRICK NOT SATISFACTORY  
TO BE PAID IN NEAT PILES AT POINTS DESIGN-  
ATED BY THE ENGINEER - HAUL NOT TO EXCEED  
ONE (1) MILE.

Note:  
All buildings on the R/W are to be removed by  
the State.

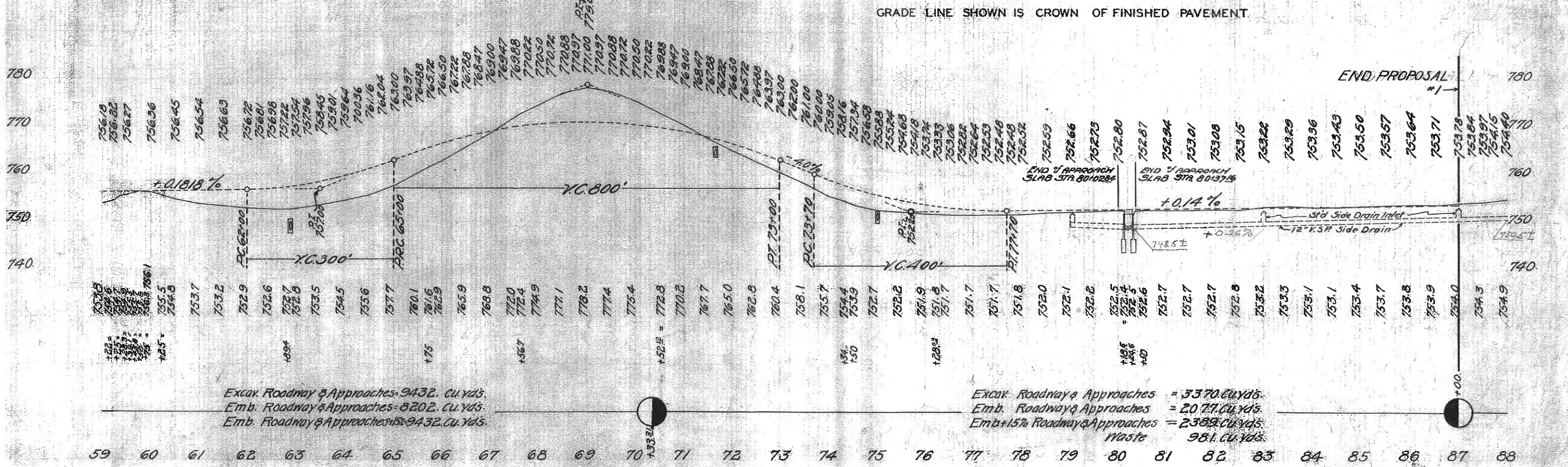
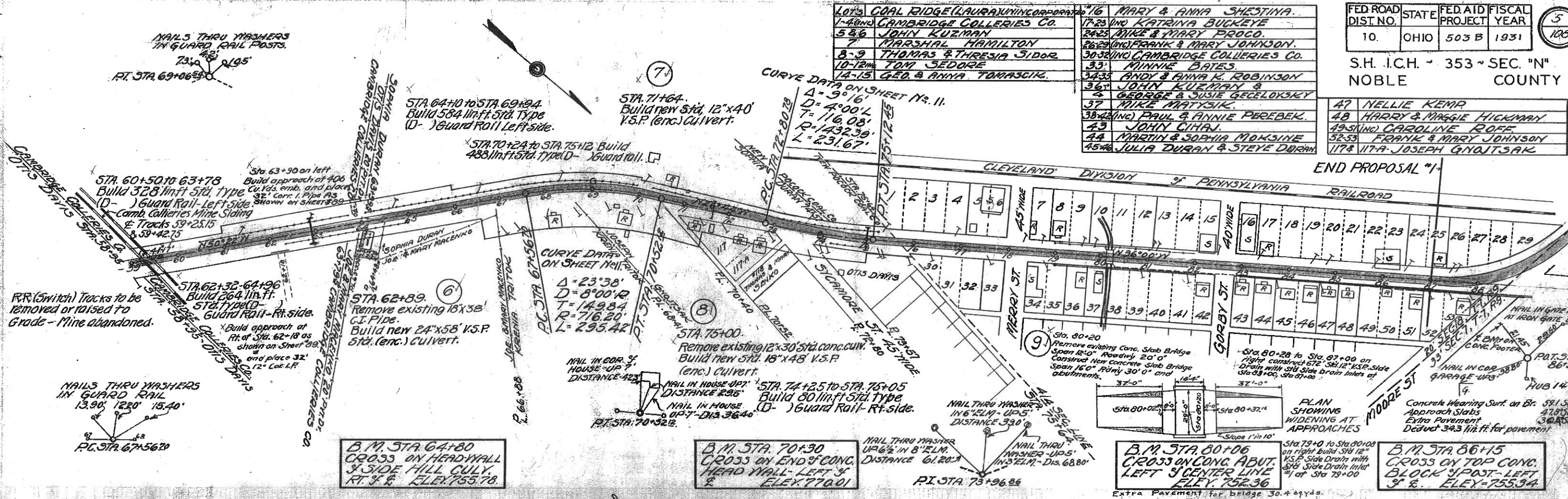
TYPICAL SECTION

LOT	OWNER	LOT	OWNER
1-4 (INC)	COAL RIDGE (LAURA) MINING CORPORATION	16	MARY & ANNA SHESTINA
5-6	CAMBRIDGE COLLIERIES CO.	17-23	AND KATRINA BUCKEY
7	JOHN KUZMAN	24-25	MIKE & MARY PROCO
8-9	MARSHAL HAMILTON	26-29	FRANK & MARY JOHNSON
10-12	THOMAS & THERESA SIDOR	30-32	CAMBRIDGE COLLIERIES CO.
13	TOM SEDORE	33	MINNIE BATES
14-15	GEO. & ANNA TOMASCIK	34-35	ANDY & ANNA K. ROBINSON
		36	JOHN KUZMAN & GEORGE & SUSIE GEGELOYSKY
		37	MIKE MATYSIK
		38-42	PAUL & ANNIE PEREBEK
		43	JOHN CIHAI
		44	MARTIN & SOPHIA MOKSINE
		45	JULIA DURAN & STEVE DURAN

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47	NELLIE KEMP
48	HARRY & MAGGIE HICKMAY
49	(INC) CAROLINE ROSE
52-53	FRANK & MARY JOHNSON
117 &	WITA JOSEPH GNOITSAK



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10B

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NOBLE

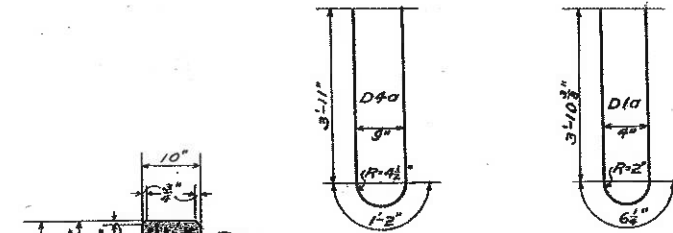
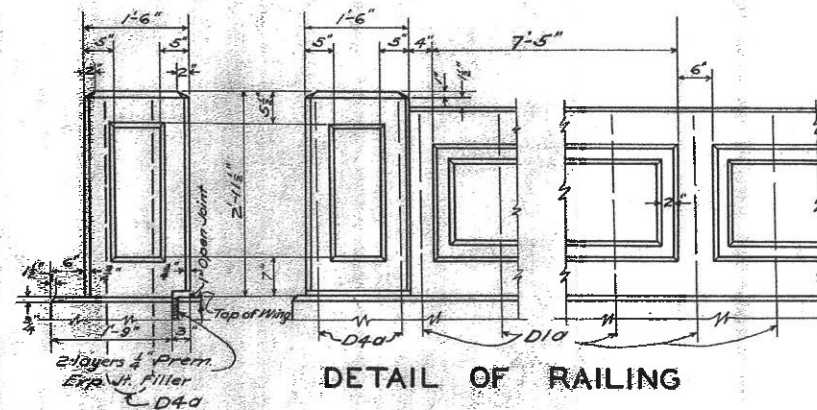
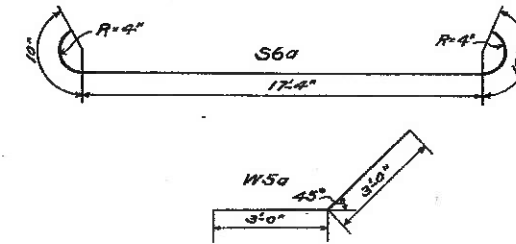
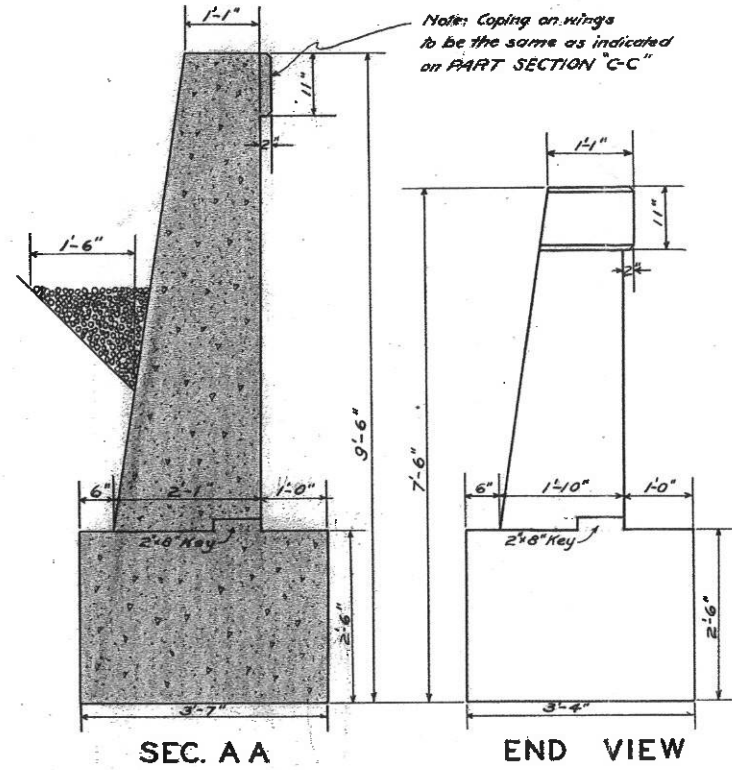
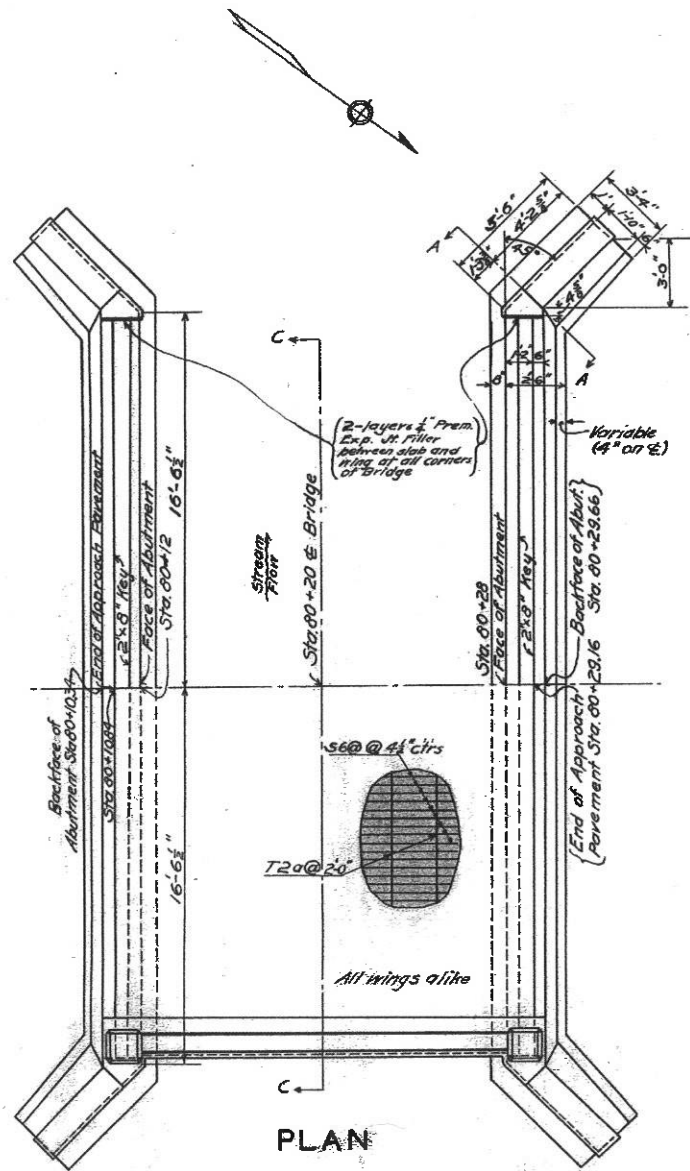
SEC. 'N'  
COUNTY

**NOTES**

All excavation below Elev. 743.16 shall be classed as wet excavation.  
 All excavation above Elev. 743.16 shall be classed as dry excavation.  
 The concrete in slab, curb and railing shall be 1-5½ mix; in walls and footings 1-6½ mix.  
 No horizontal construction joints other than those shown will be permitted. Vertical construction joints necessary for construction allowed only by special permission of the Engineer. All construction joints in abutments above low water elevation shall be sealed on back with "Type B" Waterproofing for which payment is included with concrete.  
 The backfill shall not be placed higher than Elevation 740.48 before the slab is in position.

**ESTIMATED QUANTITIES**

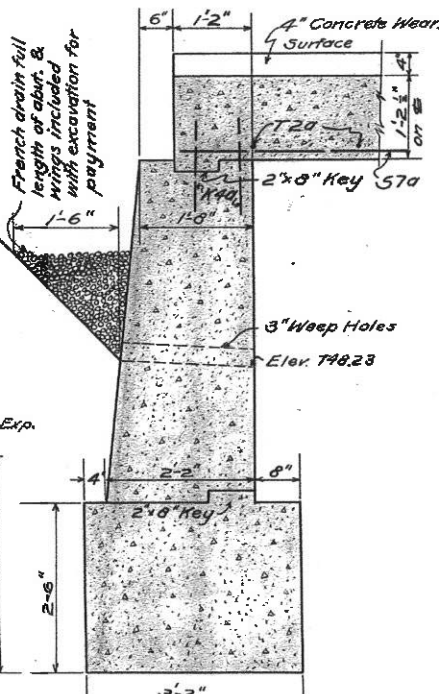
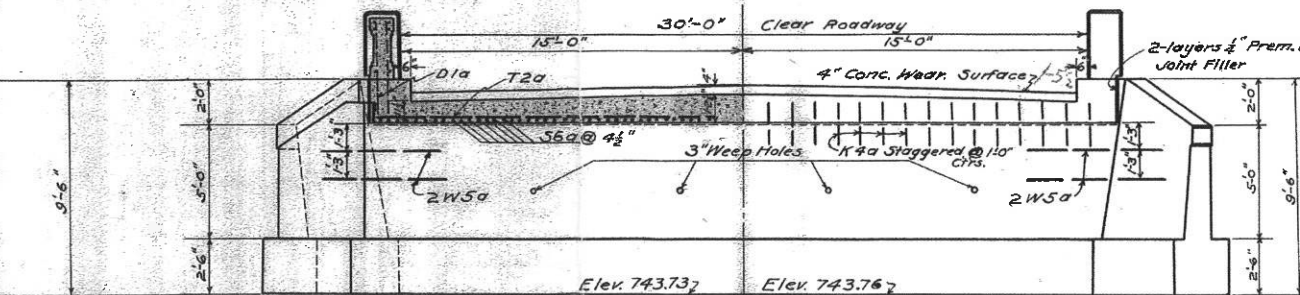
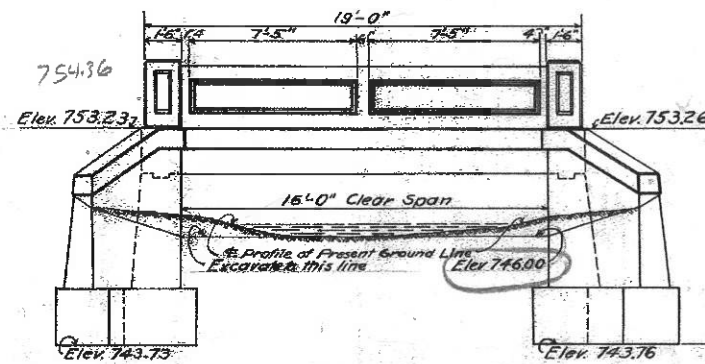
Cofferdams, Sheeting and Pumping	Lump Sum
Channel Excavation	15 Cu. Yds.
Wet Excavation	102 Cu. Yds.
Dry Excavation	54 Cu. Yds.
Concrete 1-6½ mix (Footings)	264 Cu. Yds.
Concrete 1-6½ mix (Walls)	29. Cu. Yds.
Concrete 1-5½ mix (Superstructure)	26.9 Cu. Yds.
Reinforcing Steel	3984 Lbs.
½" Premolded Expansion Joint Filler	24 Sq. Ft.
Railing Type R-R-5.	38 Lin. Ft.
4" Plain Concrete Wearing Surface	53.1 Sq. Yds.
Removal of Present Structure	Lump Sum
Reint. Cover Approach Slabs 7"	50.15 Sq. Yds.



**STEEL LIST**

Mark	Size	Shape	No.	Length	Weight
D1a	½"	Bent	32	9'-3"	100
D4a	½"	Bent	8	9'-0"	75
K4a	½"	Strt	64	2'-0"	132
S6a	½"	Bent	86	19'-0"	3340
T2a	½"	Strt	9	32'-0"	193
W5a	½"	Bent	16	6'-0"	144
R4a	½"	Strt	6	18'-8"	*
Total					3984

\* Included in price per lin. ft. of railing for payment.



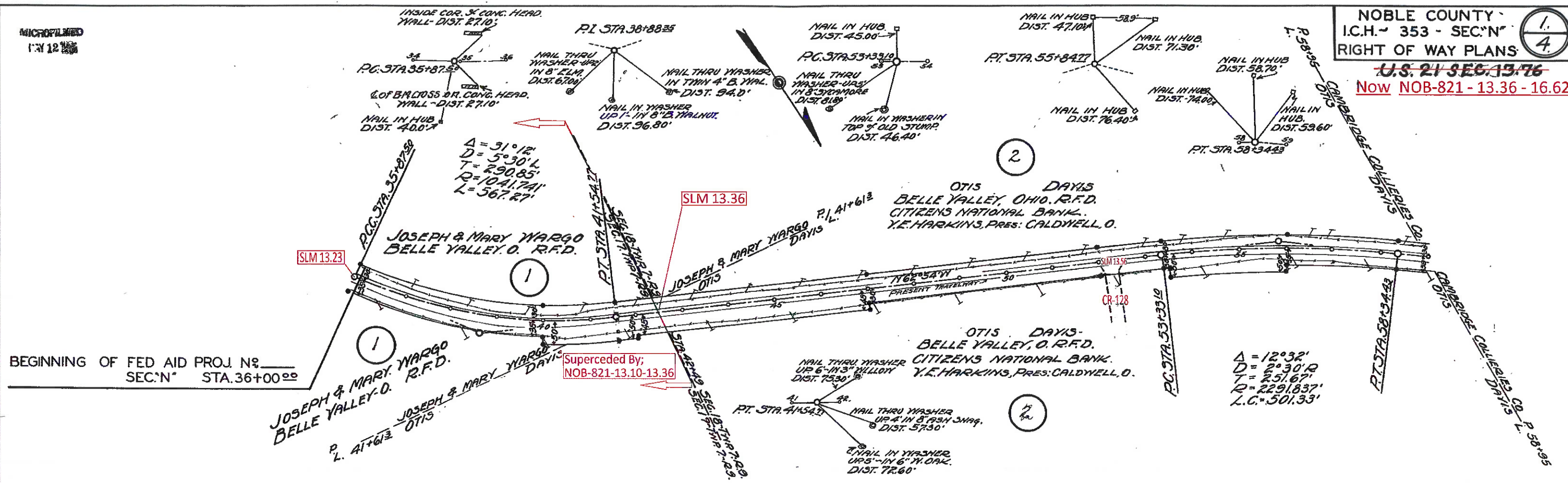
NO. 9-STA. 00+20.

BRIDGE OVER COAL RIDGE RUN  
NOBLE COUNTY S.H.-I.C.H.-353 SEC. 'N'  
MARCH-1930. BUREAU OF BRIDGES

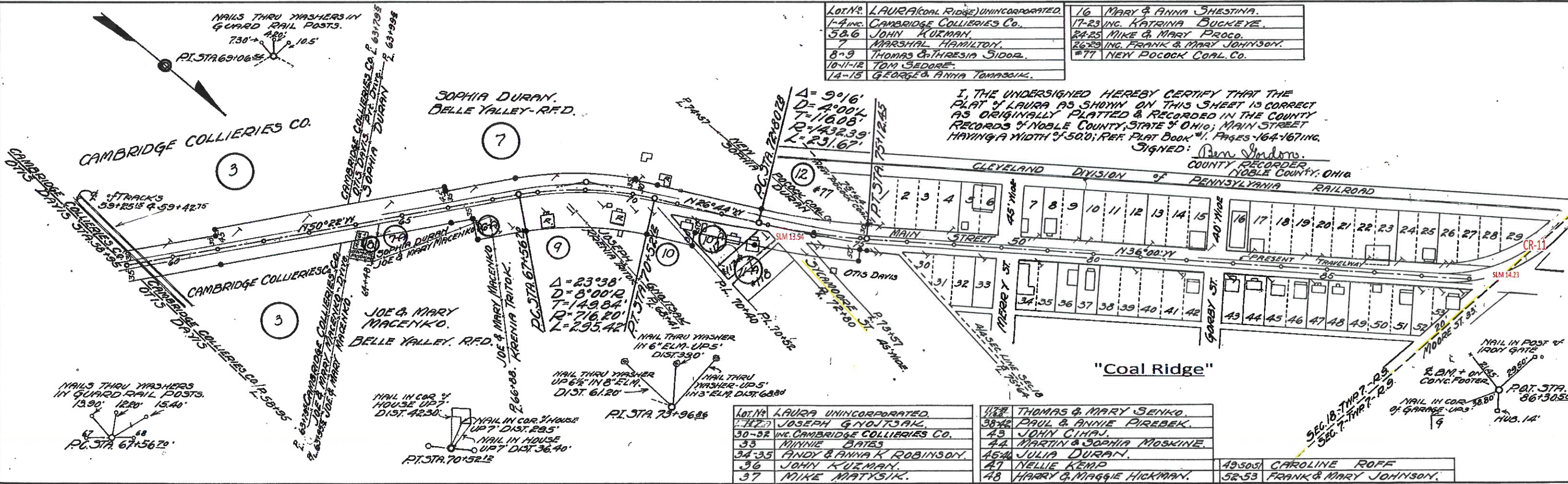
Designed, Drawn, Traced, Checked, Reviewed  
HHW HHW HMM SLS

MICROFILMED  
1:31 12 1988

NOBLE COUNTY  
I.C.H. - 353 - SEC. N  
RIGHT OF WAY PLANS  
**U.S. 21 SEC. 13.76**  
Now NOB-821-13.36-16.62



BEGINNING OF FED AID PROJ. N<sup>o</sup> \_\_\_\_\_  
SEC. N<sup>o</sup> STA. 36+00.00



LOT N <sup>o</sup> 1	LAURA (COAL RIDGE) UNINCORPORATED.	16	MARY & ANNA SHESTINA.
2-4 INC.	CAMBRIDGE COLLIERIES CO.	17-23 INC.	KATRINA BUCKEYE.
5 & 6	JOHN KUZMAN.	24-25	MIKE & MARY PROCO.
7	MARSHAL HAMILTON.	26-29	ING. FRANK & MARY JOHNSON.
8-9	THOMAS & THERESA SIDOR.	30-37	NEY POCKOCK COAL CO.
10-11-12	TOM SEDORE.		
14-15	GEORGE & ANNA TOMASOIK.		

I, THE UNDERSIGNED HEREBY CERTIFY THAT THE PLAT OF LAURA AS SHOWN ON THIS SHEET IS CORRECT AS ORIGINALLY PLATTED & RECORDED IN THE COUNTY RECORDS OF NOBLE COUNTY, STATE OF OHIO; MAIN STREET HAVING A WIDTH OF 50.0; REF. PLAT BOOK #1, PAGES 164-167 INC.  
Signed: *Ben Jordan*  
COUNTY RECORDER  
NOBLE COUNTY, OHIO

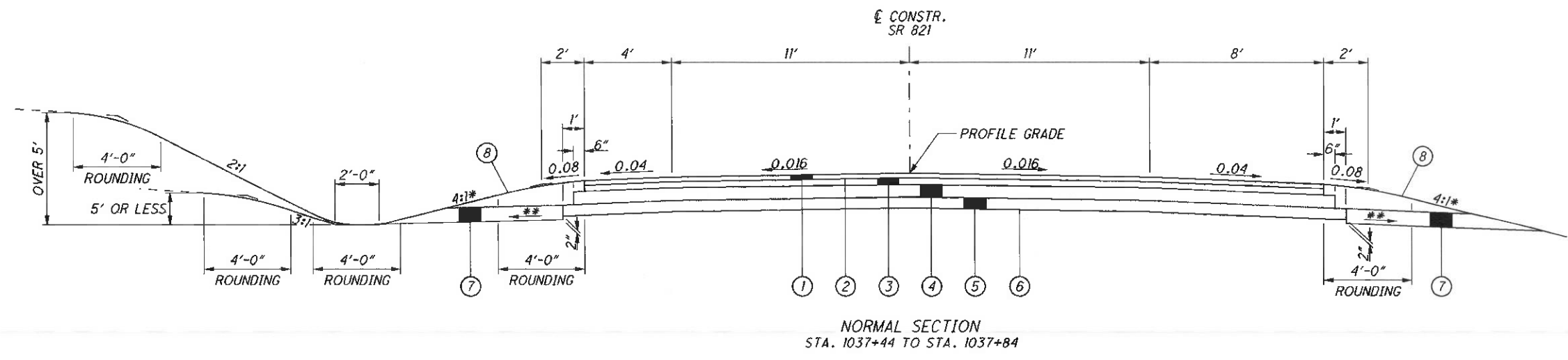
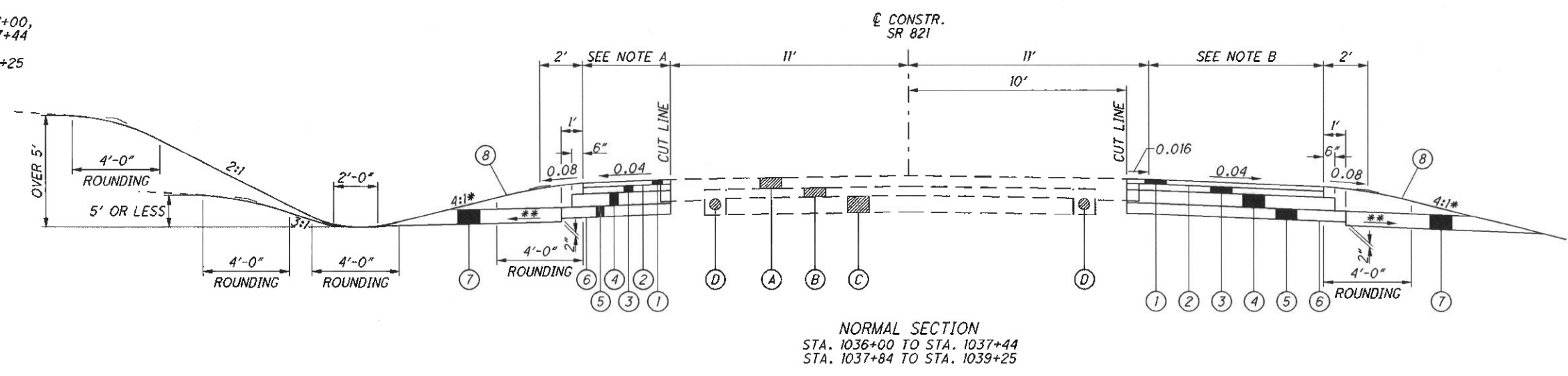
LOT N <sup>o</sup> 38	LAURA UNINCORPORATED.	41-42	THOMAS & MARY SENKO.
39-42	JOSEPH & NOJTSAL.	43	PAUL & ANNIE PIREBEK.
30-32	INC. CAMBRIDGE COLLIERIES CO.	44	JOHN CIHAJ.
33	ANNIE BATES.	45	MARTIN & SOPHIA MOSKINE.
34-35	ANDY & ANNA K. ROBINSON.	46-48	JULIA DURAN.
36	JOHN KUZMAN.	49	NELLIE KEMP.
37	MIKE MATYSIK.	49-50	CAROLINE ROFF.
		52-53	FRANK & MARY JOHNSON.



NOTE A:  
VARIES FROM 2' AT STA. 1036+00 TO 4' AT STA. 1037+00,  
CONSTANT 4' WIDTH FROM STA. 1037+00 TO STA. 1037+44  
AND FROM STA. 1037+84 TO STA. 1038+25,  
VARIES FROM 4' AT STA. 1038+25 TO 2' AT STA. 1039+25

NOTE B:  
VARIES FROM 2' AT STA. 1036+00 TO 9' AT STA. 1037+00,  
CONSTANT 9' WIDTH FROM STA. 1037+00 TO STA. 1037+44  
AND FROM STA. 1037+84 TO STA. 1038+25,  
VARIES FROM 9' AT STA. 1038+25 TO 2' AT STA. 1039+25

\* UNLESS OTHERWISE SHOWN ON THE CROSS SECTIONS  
\*\* 0.04 MINIMUM SLOPE, 0.08 DESIREABLE SLOPE



LEGEND

- ① ITEM 448 - 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
- ② ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE (APPLIED AT 0.04 GAL/SY)
- ③ ITEM 448 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
- ④ ITEM 301 - 7" ASPHALT CONCRETE BASE, PG64-22
- ⑤ ITEM 304 - 6" AGGREGATE BASE
- ⑥ ITEM 204 - SUBGRADE COMPACTION
- ⑦ ITEM 605 - AGGREGATE DRAINS
- ⑧ ITEM 659 - SEEDING & MULCHING
- (A) EXISTING ASPHALT PAVEMENT (5" TO 12" THICKNESS)
- (B) EXISTING BRICK (FLEXIBLE)
- (C) EXISTING SLAG AND SANDSTONE BASE
- (D) EXISTING 12" x 14" CONCRETE CURB