

STATE OF OHIO DEPARTMENT OF HIGHWAYS

MICROFILMED
AUG - 7
REPRODUCTION

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	State	

CLARK COUNTY
CLA-40-(16.92-25.70)

CLA-40-16.92-25.70

**SPRINGFIELD TOWNSHIP
HARMONY TOWNSHIP
VILLAGE OF SOUTH VIENNA
CLARK COUNTY
SOMERFORD TOWNSHIP
MADISON COUNTY**

1967 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF HIGHWAYS INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

THE RIGHT OF WAY NECESSARY FOR THIS IMPROVEMENT WILL BE PROVIDED BY THE STATE OF OHIO.

HERE BY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING OF THE HIGHWAY TO TRAFFIC AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED DATE 5-13-68 Devin M. Lavin DIVISION DEPUTY DIRECTOR

APPROVED DATE 6-25-68 C. H. Alfwater ENGINEER OF BRIDGES

APPROVED DATE 6-26-68 R. E. Battle ENGINEER OF LOCATION & DESIGN

APPROVED DATE 6-26-68 R. E. Shultz DEPUTY DIRECTOR OF DESIGN & CONSTRUCTION

APPROVED DATE 7-1-68 T. H. Board DEPUTY DIRECTOR OF RIGHT OF WAY

APPROVED DATE 7-1-68 Thomas M. Major DEPUTY DIRECTOR OF PLANNING & PROGRAMMING

APPROVED DATE 7-1-68 F. W. Wilson FIRST ASSISTANT DIRECTOR

APPROVED DATE 7-1-68 P. E. Meadette DIRECTOR OF HIGHWAYS

CONVENTIONAL SIGNS

COUNTY LINE	---
TOWNSHIP LINE	----
SECTION LINE	-----
CORPORATION LINE	-----
PROPERTY LINE	-----
FENCE LINE	-x-x-
CENTER LINE	-----
POLE LINE	-----
RAIL ROAD	Power Telephone
HEDGE	-----
DRAIN PIPE (NEW)	-----
DRAIN PIPE (OLD)	-----
GUARD RAIL (NEW)	-----
GUARD RAIL (OLD)	-----
TREES & STUMPS TO BE REMOVED	-----
R/W LINE (PROPOSED)	-----
R/W LINE (EXISTING)	-----
WORK LIMITS	-----

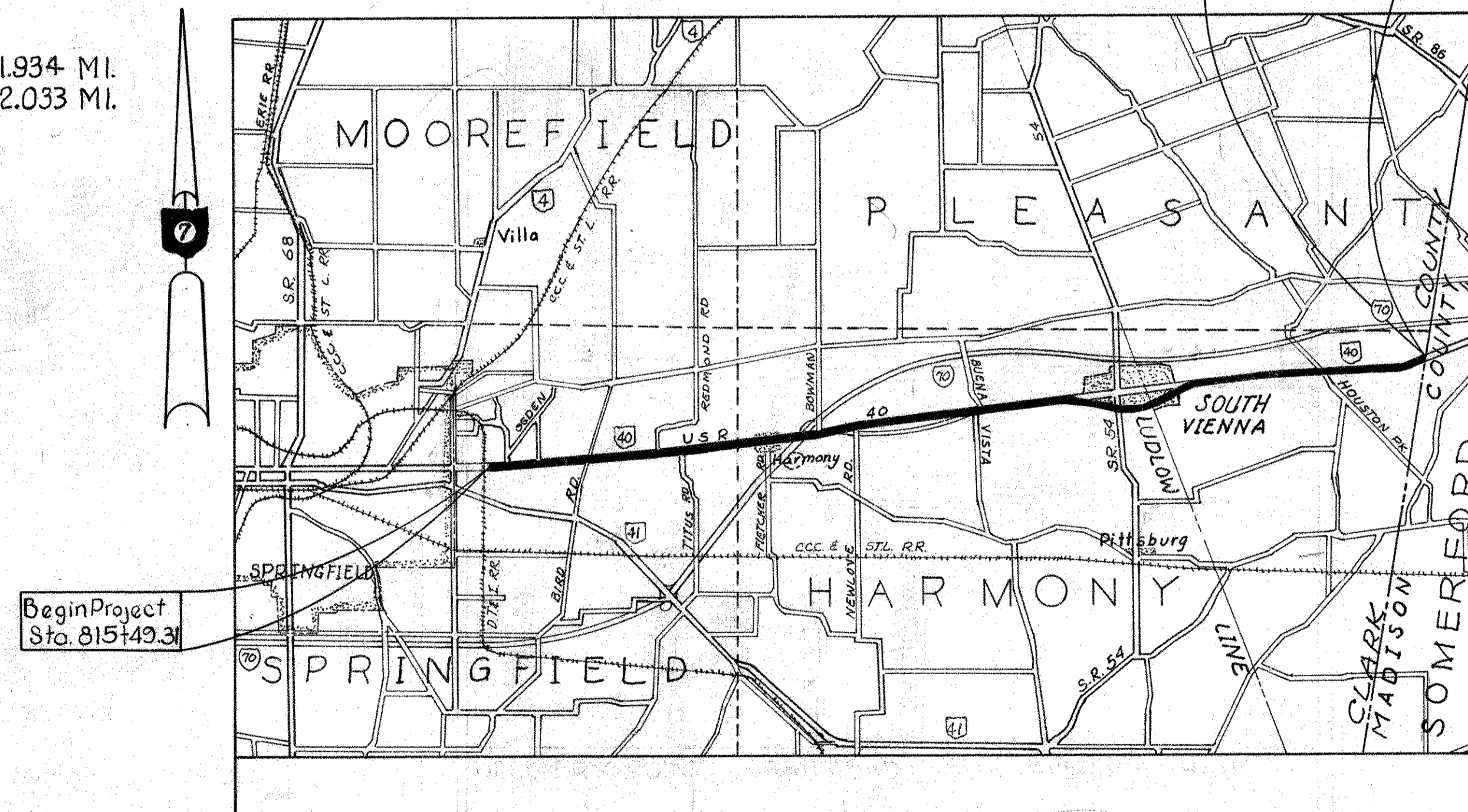
LINE DATA

BEGIN WORK	STA 815+29.31
BEGIN PROJECT	STA 815+49.31
END PROJECT	STA 1445+64.82
END WORK	STA 1445+84.82
ADD FOR 4th AVE. WORK	480.87 LIN. FT.
TOTAL NET LENGTH OF PROJECT	= 63,015.51 LIN. FT or 11.934 MI.
TOTAL NET LENGTH OF WORK	= 63,536.38 LIN. FT or 12.033 MI.

2-3-68
4-18-68
EAC
LES
DETAILED
DETAILS CHECKED
DETAILS REVISED

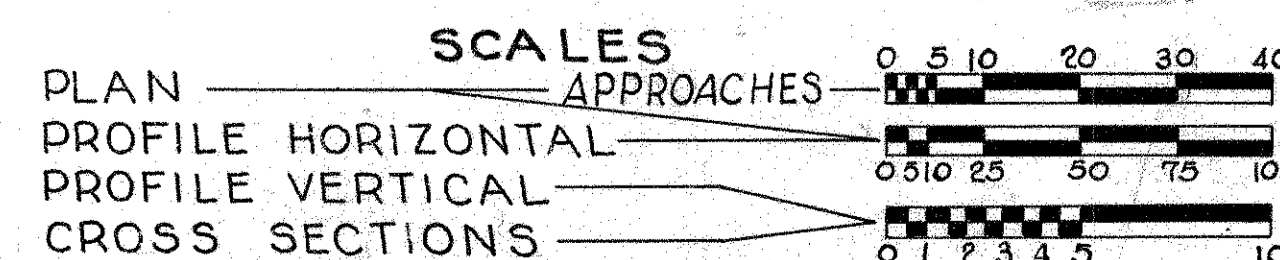
INDEX

TITLE SHEET	1
TYPICAL SECTIONS	2
TYPICAL SECTIONS-DETAILS-SYMBOLS	3
GENERAL NOTES	4
EXTRA PAVEMENT TABLES & DETAILS	5
CALCULATIONS & DETAILS	6
LINEAR GRADING TABLE	7
GENERAL SUMMARY	8-9
PLAN AND PROFILE	10-18
APPROACHES	19-32
4th AVENUE Lt. & HOSPITAL DRIVE	19-24
4th AVENUE Rt.	25
OGDEN ROAD	26
TUTTLE ROAD	27
LARCHMONT ROAD	28
HICKORY DRIVE	29
BIRD ROAD	30
REDMOND DRIVE	31
TITUS ROAD	32
STRUCTURES (UNDER 20' SPAN)	33-37
TRAFFIC SIGNALS	38
RIGHT-OF-WAY PLANS	39-42



LOCATION MAP

PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER ROADS



SUPPLEMENTAL SPECIFICATIONS			
N ^o	DATE	N ^o	DATE
1001	3-21-66		

STANDARD DRAWINGS			
N ^o	DATE	N ^o	DATE
BP-5	6-1-65		
BP-6	6-1-65		
BP-7	1-1-66		
CB-2-2A&B	6-1-65		
CB-3A	6-1-65		
CB-5	6-1-65		
CB-8	6-1-65		
HW-E	6-1-65		
L-1	6-1-65		
MC-1	10-1-67		
MC-4	6-1-65		
MC-6	6-1-65		
MC-3	5-1-66		
MC-7	3-1-66		

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AUG - 7
REPRODUCTION

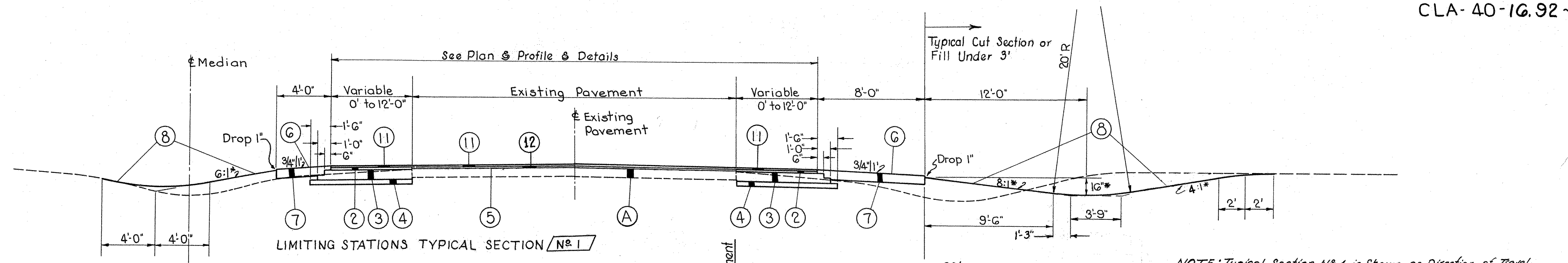
FILE NUMBER	CLARK COUNTY - CLA-40-(16.29-25.70)
DATE OF LETTING	
CONTRACT N ^o	

TYPICAL SECTIONS

TYPE : 404 (R-30)

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

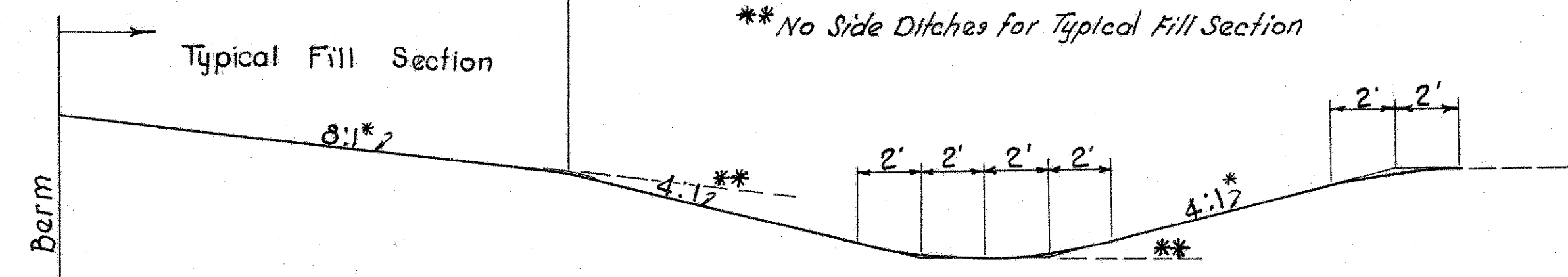
CLARK COUNTY
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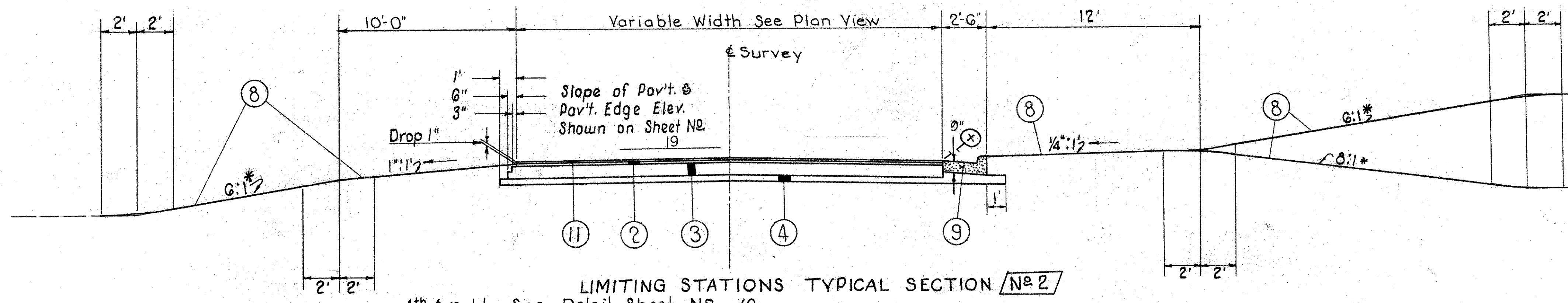
LIMITING STATIONS TYPICAL SECTION **N^o 1**

Sta. 99+43.33 ~ Sta. 104+27.79	West Bound Lanes
Sta. 817+61.74 ~ Sta. 822+80.26	East Bound Lanes
Sta. 100+66.39 ~ Sta. 104+16.39	West Bound Lanes
Sta. 824+28.42 ~ Sta. 827+92.70	East Bound Lanes
Sta. 100+59.99 ~ Sta. 104+09.99	West Bound Lanes
Sta. 849+03.67 ~ Sta. 852+53.67	East Bound Lanes
Sta. 871+22.44 ~ Sta. 874+72.44	West Bound Lanes
Sta. 866+38.16 ~ Sta. 869+88.16	East Bound Lanes
Sta. 882+03.02 ~ Sta. 885+58.02	West Bound Lanes
Sta. 876+34.26 ~ Sta. 879+84.26	East Bound Lanes
Sta. 862+96.72 ~ Sta. 866+46.72	West Bound Lanes
Sta. 858+12.44 ~ Sta. 861+62.44	East Bound Lanes
Sta. 927+28.40 ~ Sta. 930+83	West Bound Lanes
Sta. 922+53.66 ~ Sta. 926+15	East Bound Lanes
Sta. 946+32.95 ~ Sta. 949+82.95	West Bound Lanes
Sta. 941+55.38 ~ Sta. 945+05.38	East Bound Lanes

* Unless otherwise Indicated on Plans.



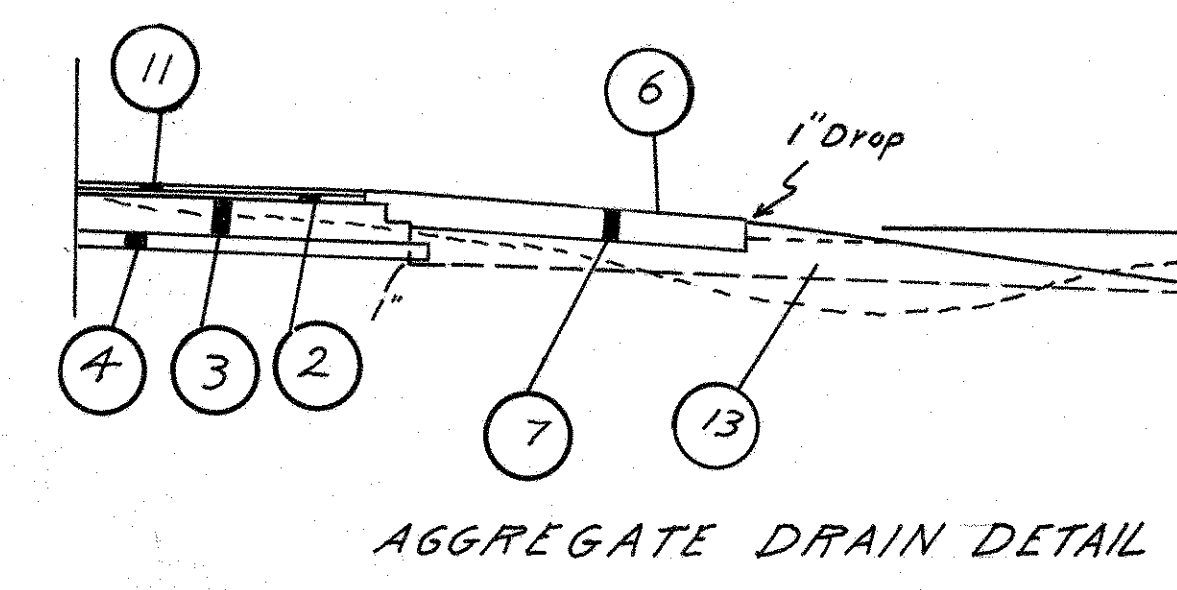
NOTE: Typical Section N^o 1 is Shown as Direction of Travel for East Bound Lanes & West Bound Lanes.
** No Side Ditches for Typical Fill Section



LIMITING STATIONS TYPICAL SECTION **N^o 2**

4th Ave Lt. See Detail Sheet N^o 19
Sta. 10+60.75 to Sta. 13+27.11

⊗ Finish 404 course 1/4" above gutter plate.



AGGREGATE DRAIN DETAIL

- ② 402 - 1/4" Asphalt Concrete (70-85).
- ③ 301 - 9" Bituminous Aggregate Base to be applied in two 4 1/2" Courses. 702.01 (85-100) or 702.09 RT-10
- ④ 310 - 4" Subbase, Grading "C" or "D"
- ⑤ 407 - Tack Coat; 702.04 MS-2 or RS-1; or 702.02 RC-70 or R-250 applied at the rate of 0.1 Gal. per Sq. Yd.
- ⑥ 409 - Seal Coat, using 0.008 Cu. Yd. N^o 8 Cover Aggregate per Sq. Yd. and 0.30 Gal. Bituminous Material 702.09, R1-8 or RT-9; or 702.02, MC-800 or MC-3000 per. Sq. Yd.
- ⑦ 304 - 8" Aggregate Base.
- ⑧ 659 - Seeding and Mulching. (See General Note.)
- ⑨ 609 - Combination Curb & Gutter Standard Type 2.
- ⑩ 605 Aggregate Drain (See General Notes)
- ⑪ 404 - 3/4" Asphalt Concrete (70-85)
- ⑫ 403 - 1/2" Asphalt Concrete (70-85)
- (A) Existing Pavement, 2" Asphalt Surface on 8" of Reinforced Portland Cement Concrete Base.

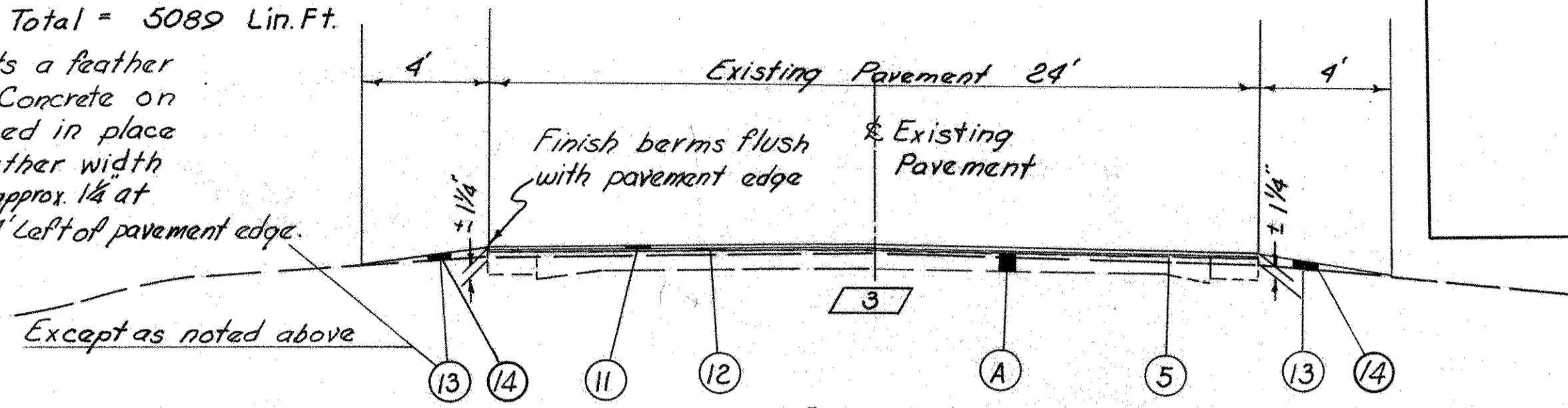
DATE: 2-19-68
 BY: JES
 CHECKED: JFC
 DETAILS REVISED: 4-23-68

CLARK COUNTY
CLA - 40-16.92-25.7(1)

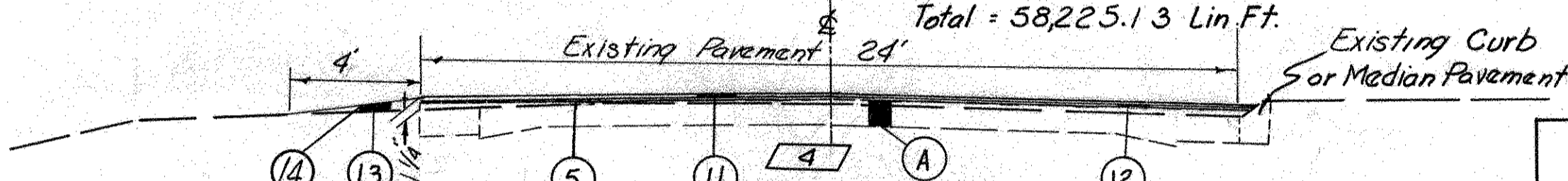
TYPICAL SECTIONS FOR RESURFACING OF WEST BOUND LANES U.S.R. 40

LIMITING STATIONS OF EXISTING PAVED BERM ON LEFT
 Sta. 826+10 to Sta. 870+13 = 4403 Lin.Ft.
 Sta. 889+67 to Sta. 890+72 = 105 Lin.Ft.
 Sta. 1384+93 to Sta. 1390+74 = 581 Lin.Ft.
Total = 5089 Lin.Ft.

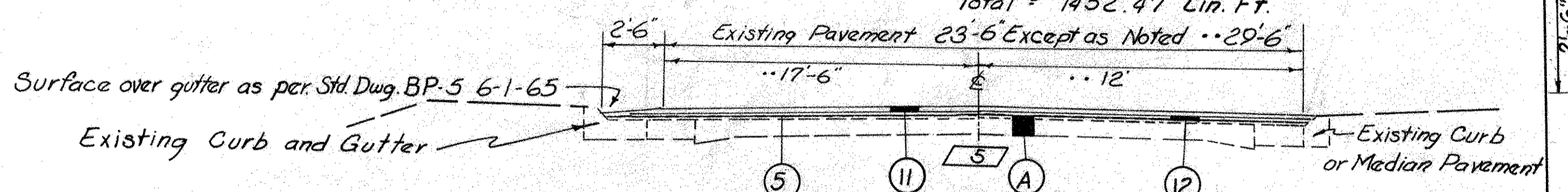
Note: In the above limits a feather course of 404 Asphalt Concrete on 407 Tack Coat shall be used in place of the indicated 411. The feather width shall be 4' and taper from approx. 1/4" at the edge of pavement to 0' 4" left of pavement edge.



LIMITING STATIONS
 Sta. 821+44 to Sta. 982+74 = 16,130.00 Lin.Ft.
 Sta. 1013+51.97 to Sta. 1029+28.15 = 1,576.68 Lin.Ft.
 Sta. 1033+95.15 to Sta. 1293+19.16 = 25,924.01 Lin.Ft.
 Sta. 1295+37.32 to Sta. 1359+87.87 = 6,450.55 Lin.Ft.
 Sta. 1364+20.93 to Sta. 1445+64.82 = 8,143.89 Lin.Ft.
Total = 58,225.13 Lin.Ft.

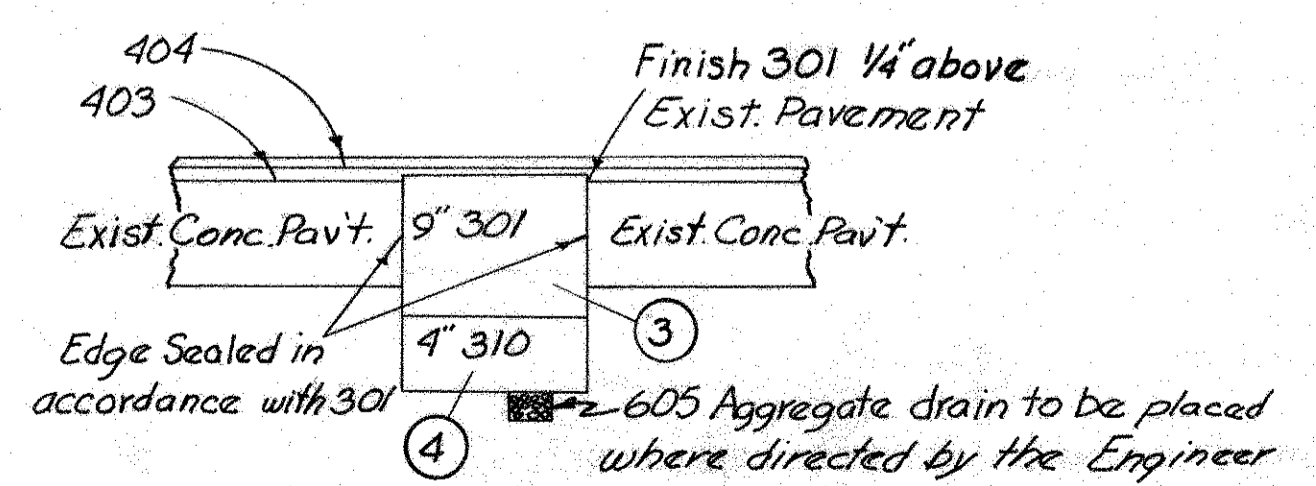
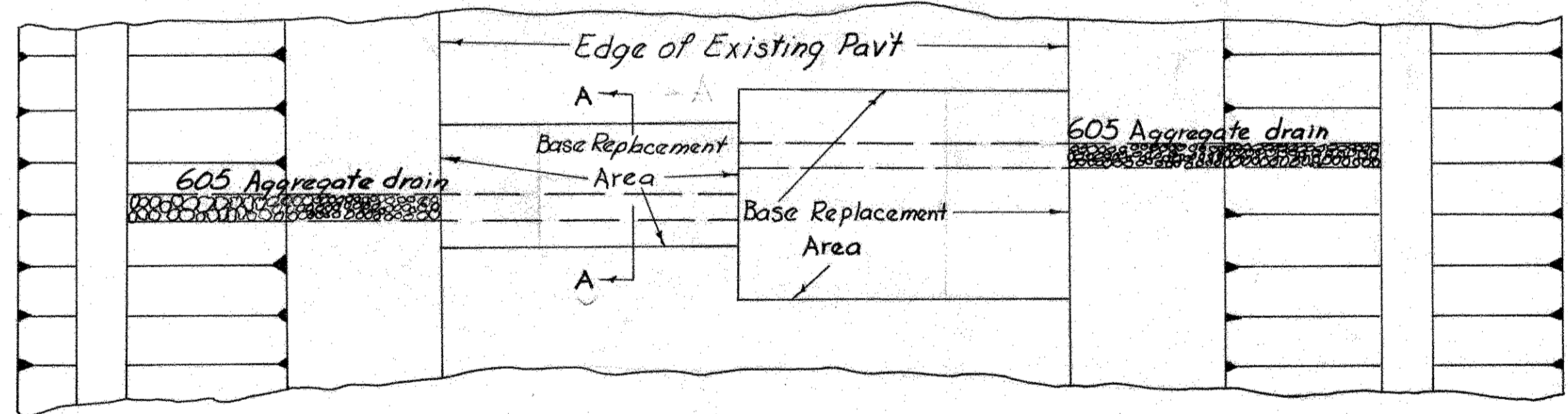


LIMITING STATIONS
 Sta. 982+74 to Sta. 990+03 = 729.00 Lin.Ft.
 Sta. 1006+28 to Sta. 1013+51.97 = 723.47 Lin.Ft.
Total = 1452.47 Lin.Ft.



LIMITING STATIONS
 Sta. 815+49.31 to Sta. 821+44 = 594.69 Lin.Ft.
 Sta. 990+03 to Sta. 1006+28 = 1625.00 Lin.Ft.

BASE REPLACEMENT DETAIL

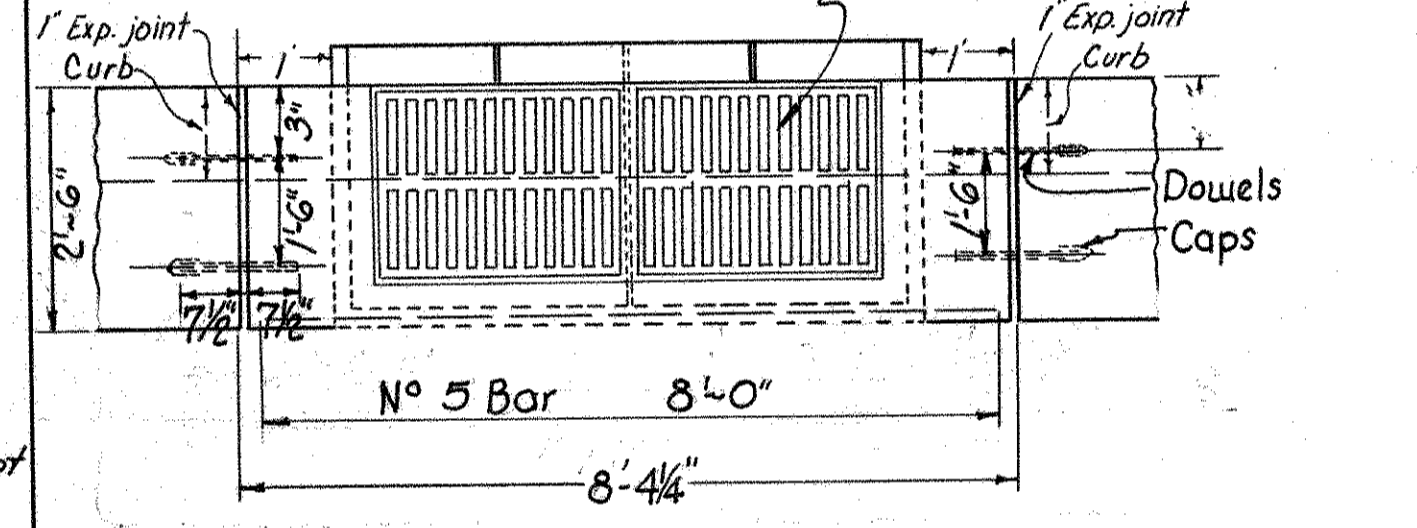
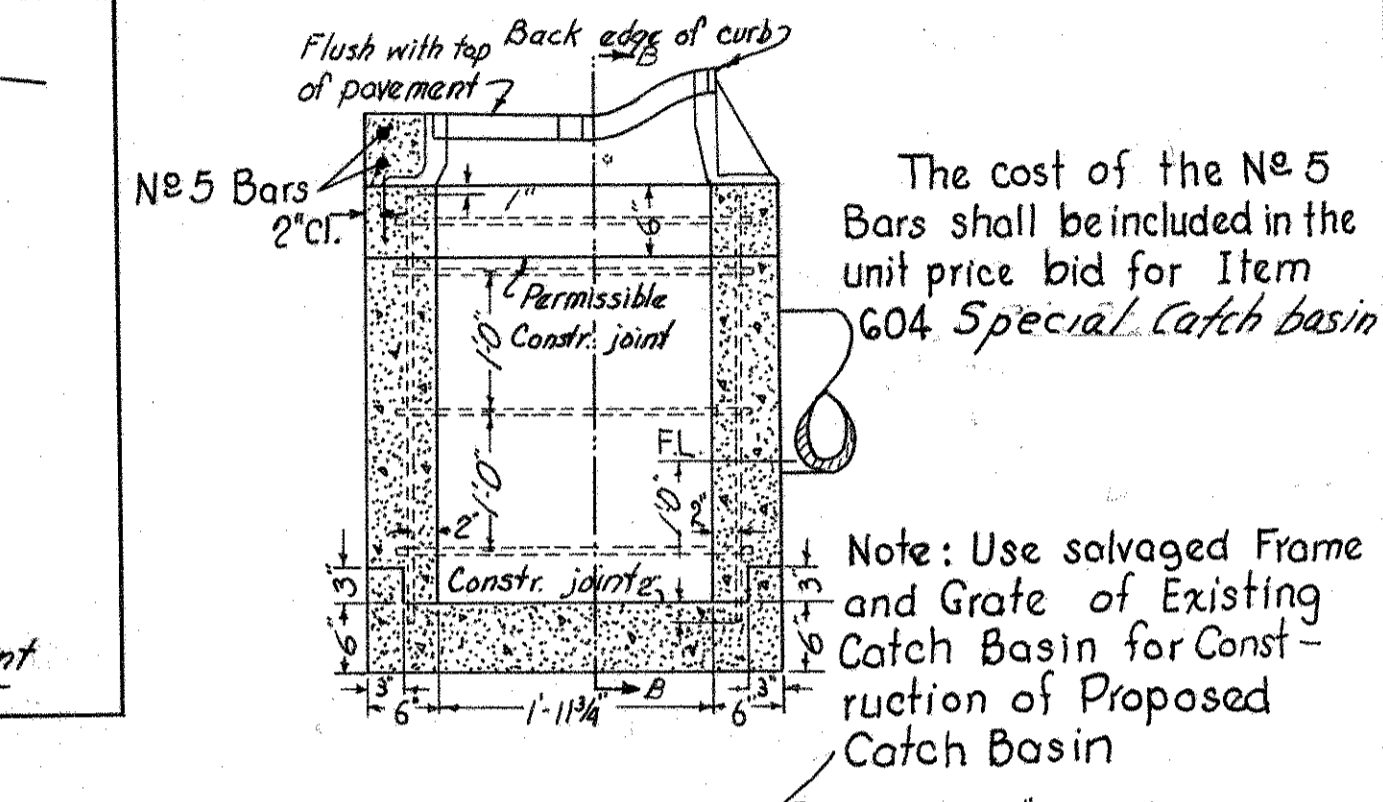
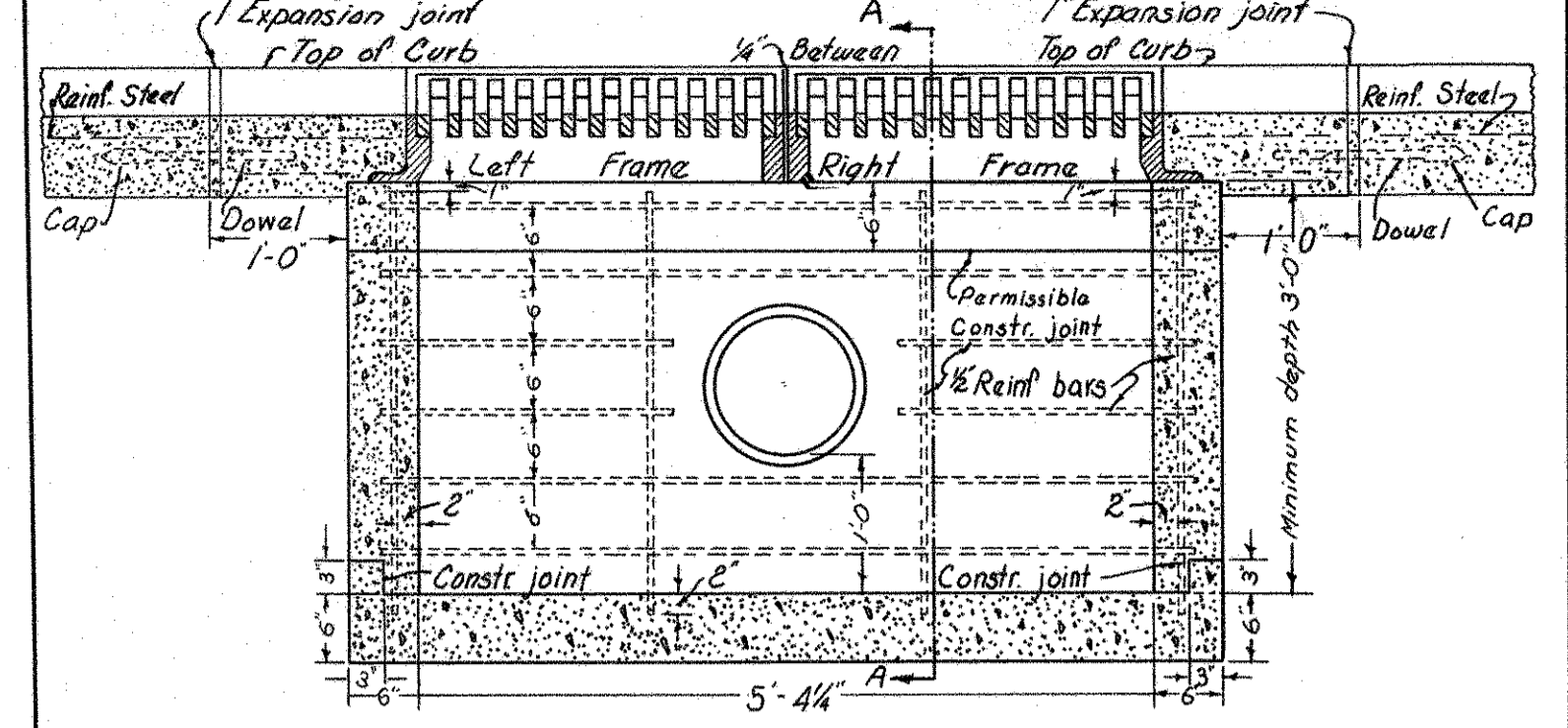


SECTION A-A

~ ESTIMATED QUANTITIES ~

202 Existing Pavement Removed and Disposed of	1500	Sq.Yd.
301 Bituminous Aggregate Base	375	Cu.Yd.
310 Subbase Grading "C" or "D"	167	Cu.Yd.
605 Aggregate Drains	1200	Lin.Ft.

DETAIL FOR SPECIAL CATCH BASIN STA. 819+69 LT.



~ NOTES ~

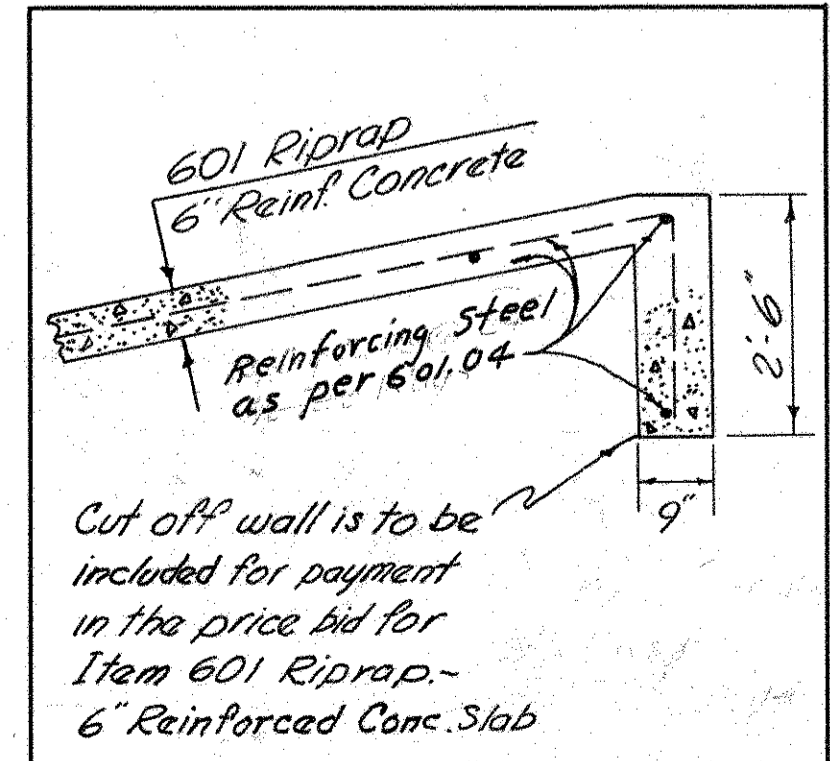
BEARING AREAS of frame and grate shall be so fitted and finished as to provide a firm and even seat for all portions of the grate in the frame. No projections shall exist on bearing areas of either casting, and each grate shall seat in its frame without rocking.

REINFORCE side walls with deformed bars vertical in each corner. Other bars, horizontal and vertical, to be placed as shown hereon.

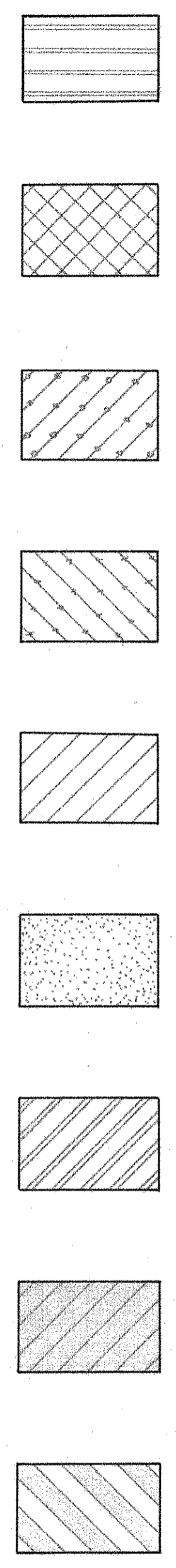
DOWELS to be 3/4" round, smooth bars 15 inches long spaced as shown hereon and greased.

CONCRETE to be Class "C".

BRICK side walls, when used in place of reinforced concrete, shall be 8 inches in thickness and be plastered on the inside and outside with 1:2 cement mortar 1/2 inch thick.



DETAIL OF CUT-OFF WALL



- 608 4" Concrete Walk
- Feather 404 on 407 Bituminous Tack Coat @ .10 Gal./Sq.Yd. on Existing Pavement.
- Resurface 3/4" 404 on 1/2" 403 on 407 Bituminous Tack Coat @ .10 Gal./Sq.Yd. on Existing Pavement.
- See Code numbers ①, ②, ③, ④, on Sheet # 2
- 2" of 404 (placed in 2-1" courses) on 408 Bituminous Prime Coat @ 0.35 Gal./Sq.Yd. on 5" of 304 Aggregate Base.
- See Code numbers ⑥ & ⑦ on Sheet # 2
- 2" of 404 (placed in 2-1" courses) on 408 Bituminous Prime Coat @ 0.35 Gal./Sq.Yd. on 7" of 304 Aggregate Base.
- 8" of 304 Aggregate Base.
- Existing Rigid Pavement Removal.

~ CODE ~

- ① Existing Pavement, 2" Asphalt Surface on 8" of Reinforced Portland Cement Con. Base.
- ③ 301 - 9" Bituminous Aggregate Base, 702.01 (85-100), or 702.09 RT-10 Applied in Two (2), Four and one-half (4 1/2) inch Courses.
- ④ 310 - 4" Subbase, Grading "C" or "D".
- ⑤ 407 - Tack Coat; 702.04 MS-2 or RS-1, or 702.02 RC-70 or RC-250 @ 0.1 Gal./p. Sq.Yd.
- ⑪ 404 - 3/4" Asphalt Concrete (70-85)
- ⑫ 403 - 1/2" (Min.) Asphalt Concrete (70-85)
- ⑬ 411 - Stabilized Crushed Aggregate
- ⑭ 616 - Calcium Chloride, as per 616 - Applied @ the Rate of 1 lb. Per Sq. Yd.

BY: TES
 DATE: 4-5-68
 CHECKED: LES
 DATE: 4-10-68
 REVISIONS:

GENERAL NOTES

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

CLARK COUNTY
CLA-40-16.92~25.70

FIELD OFFICE:

The Contractor shall, in addition to the requirements of 105.152, provide a suitable field office having a minimum of 500 sq. ft. of floor space. The Contractor shall have a telephone installed and maintained in this field office during the construction of this project. The Contractor shall also provide and maintain sanitary provisions as per 107.06. All of the above is included in the lump sum price bid for Field Office.

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS:

The rounded corners shown on Standard Drawing MC-1, apply to all cross sections, even though otherwise shown on these plans.

UNDERGROUND UTILITIES:

The locations of the underground utilities shown on the plans have been obtained by diligent field checks and searches of available records. It is believed that they are essentially correct, but the State of Ohio does not guarantee their accuracy or completeness.

ITEM 411:

Compaction of subgrade required by 411.03 is hereby waived on this project.

REMOVAL OF EXISTING PIPE:

The removal of all existing pipe drains which would normally be removed in various excavation items shall be included for payment in the unit prices bid for the respective excavation items, unless otherwise itemized in the plans.

TREES AND STUMPS REMOVED:

All trees and stumps specifically marked for removal within the construction limits of this project shall be removed under the lump sum price bid for Item 201 Clearing & Grubbing.

The following is an approximate estimate of the number of trees and stumps to be removed

SIZE	N° TREES	N° STUMPS
18"	5	
30"	3	
48"	2	
60"	0	

The above estimate is approximate and the State of Ohio reserves the right to order the removal of additional trees or stumps outside of the limits of construction but within the right-of-way and/or easement lines. Payment for the removal of these additional trees or stumps shall be included in the lump sum price bid for Item 201 Clearing and Grubbing.

FARM DRAINS:

All farm drains which are encountered during construction shall be provided with unobstructed outlets under the direction of the Engineer. Existing collectors which are located below the roadway ditch elevations and which cross the roadway shall be replaced within the construction limits by Item 603 Conduit, Type B with Class B Bedding, one commercial size larger than the existing conduit.

Existing collectors and isolated farm drains which are encountered above the elevation of the roadway ditches shall be outletted into the roadway ditch by 603 Type F Conduit. The optimum outlet elevation shall be, if possible, one foot above the flowline elevation of the ditch. Lateral tile fields which cross the roadway shall be intercepted by 603 Type E Conduit and carried in a longitudinal direction to an adequate outlet or roadway crossing.

The location, type, size and grade of required replacements shall be determined by the Engineer during construction and payment shall be made on final measurements.

The following estimated quantities have been included in the General Summary for the work noted above.

603 6" Conduit Type "B" with Class "B" Bedding	50 Lin. Ft.
603 10" Conduit Type "B" with Class "B" Bedding	50 Lin. Ft.
603 6" Conduit Type "E"	40 Lin. Ft.
603 8" Conduit Type "E"	40 Lin. Ft.
603 12" Conduit Type "E"	40 Lin. Ft.
603 6" Conduit Type "F"	20 Lin. Ft.
603 8" Conduit Type "F"	20 Lin. Ft.
603 10" Conduit Type "F"	20 Lin. Ft.

And necessary bends & branches which shall be included for payment in the pertinent conduit item.
None of the above materials shall be ordered by the contractor until requested by the Engineer.

ITEM 605 AGGREGATE DRAINS:

Aggregate drains shall be placed at fifty (50) foot intervals on each side of normal crowned sections and at twenty-five (25) foot intervals on the low side only of super-elevated sections, except where Item 605 Pipe Underdrains have been provided.

An aggregate drain shall be placed at the low point of each sag vertical curve. Aggregate Drains shall be placed prior to shoulder construction in lieu of 605.05 of the specifications.

SEEDING:

Quantities for seeding are calculated for the soil areas between lines ten (10) feet outside the work limits, as shown on the cross sections, or to the right-of-way line if such line is less than ten (10) feet from the work limits.

ALIGNMENT AND PROFILE:

The proposed alignment coincides with the alignment of the existing Westbound pavement. The profile of the proposed surface shall be approximately 1/4" above that of the existing pavement. The existing alignment and profile are shown on the following construction plans.

CLA-40-(15.18-23.88) 1948
CLA-40-24.31 1950

The above plans are on file in the Division 7 Location & Design Office Sidney, Ohio.

STABILIZED SHOULDER MATERIAL:

Quantities shown are calculated as average throughout the project. Distribution on the berms may be varied if so directed by the Engineer.

LOCATIONS:

The stationing for Typical Sections, Cross-overs, and Approaches shown in these plans shall be considered approximate. Minor adjustments shall be made, as directed by the Engineer to fit existing conditions, providing no extra cost is incurred.

DEFECTIVE BASE AREAS:

In Areas where settlement of pavement slab has occurred and surface irregularities exist, patching to correct irregularities shall precede placing of regular leveling course. These areas shall be thoroughly cleaned and any unsound existing patching material removed. Surface Course Composition 404 shall be used for patching and it shall be thoroughly rolled in place in accordance with item 404.
Estimated 404 for patching ---- 10 Cu.Yds.

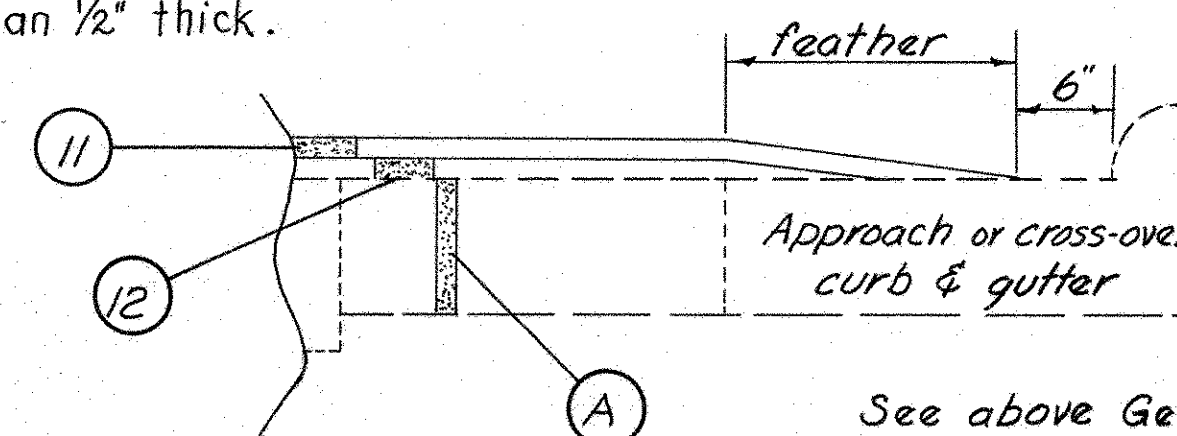
SURFACE TREATMENT OF APPROACHES, CROSS-OVERS, AND PAVED DRIVES:

Feathering from main-line surfacing onto all approaches and cross-overs shall be constructed of 404 Surface Course, for a distance of 15'. All existing paved private drives shall be surfaced with the same material at direction of the Engineer.

Estimated Quantities for Paved Private Drives ---- 5 Cu.Yds. 404

DRAINAGE ON APPROACHES AND MAIN LINE (CURBED SECTIONS)

Before placing surfacing material on curbed approaches and cross-overs, the drainage along curbs shall be investigated by the Engineer. Surfacing shall be placed over gutter out to the curbs if it doesn't interfere with proper pavement drainage. Where necessary to maintain proper pavement drainage, surfacing immediately adjacent to curb shall be omitted as shown on typical detail sketch below. Normally the depth of the surfacing material shall be 1/2" thick at the face of the existing curb and in no case greater than 1/2" thick.



See Sheet No. 3 For Codes

See above General Note for explanation of sketch

EXISTING BRIDGES:

See detail sketch sheet No 5 for Bridges and Approaches.

STATION GRADING:

Elevations, Slopes, and Other Information as indicated in the Station Grading Table shall be considered approximate and used as a guide only. The Engineer shall adjust such slopes and Elevations when necessary to provide positive drainage and blending to existing conditions.

Limits of Grading are as indicated on the plan sheets and the Station Grading Table. These plans contain no Cross Sections except for work indicated on Proposed 4th Ave. extension to the North, which shall be used as a guide for Linear Grading. Proposed Grading in other areas shall conform to Typical Section No. 1 Station Grading Table, and as directed by the Engineer.

Payment for Grading shall be as indicated By 203 Linear Grading in The Plans.

PAVEMENT ELEVATIONS~(SPEED CHANGE LANES & INTERSECTIONS)

Edge of Pavement Elevations shall be determined in the field by The Engineer so as to blend with Existing Pavement Edges and to avoid unnecessary and excessive warping of Proposed Pavement. Whenever possible proposed pavement shall be built to slope away from the through pavement Lanes at the existing rate of pavement slope, but no less than 3/16" per foot where feasible.

In areas where proposed pavement ties into existing pavement edges at median cross-overs (proposed left turn lanes) the following method of warping pavement shall be used. Through the 250' flare to where proposed pavement is 12' wide, the proposed pavement shall slope away from the through pavement toward the Median at 3/16" per foot. Through the 100' of uniform 12' proposed pavement the 3/16" per foot slope shall be transitioned uniformly to meet the pavement slope of the existing median cross-over.

In the areas where proposed pavement ties into existing pavement edges at proposed Right turn Lane at approach roads the following method of developing pavement edge Elevations shall be used through the uniform 12' wide proposed pavement as well as the flare. The proposed pavement shall slope away from the existing through lanes at 3/16" per foot. From the radius point on the main line to the point at which the proposed radius return meets the edge of pavement of the existing approach road the edge of pavement grades shall be established in the field so as to provide a smooth connection and positive pavement drainage.

MAINTAINING TRAFFIC~U.S.R.40

Two-lane traffic shall be maintained at all times on U.S.R. 40 except that one lane traffic will be permitted for minimum periods of time consistent with the requirements of the specifications for protection of completed asphalt concrete courses. During the actual construction operations in the area where proposed lanes are adjacent to the through lanes, one lane operation may be maintained.

Trench excavation for base widening shall be performed only on one side of the pavement at a time. The open trench shall be adequately maintained and protected with temporary guide markers or barricades at all times. Placement of proposed subbase and base material shall follow as closely as possible behind the excavation operations. The length of widening trench which is open at any one time shall be held to a minimum, and not left open during non working hours, and shall at all times be subject to approval of the Engineer.

FOURTH AVE.~OGDEN ROAD,~TUTTLE ROAD,~LARCHMONT ROAD,~HICKORY DRIVE,~BIRD ROAD,~REDMOND ROAD,~TITUS ROAD:

Two-way traffic shall be maintained at all times on the above listed approach roads except that one-way traffic will be permitted for minimum periods of time consistent with the requirements of the specifications for protection of completed asphalt concrete courses.

Adequate access shall be maintained to and from the southeast corner of the Ontario Store Parking Lot throughout the duration of the project by us: of either the proposed drive or the existing drive.

The following estimated quantities are included in the plans for temporary roadways, maintenance of local traffic and dust control:

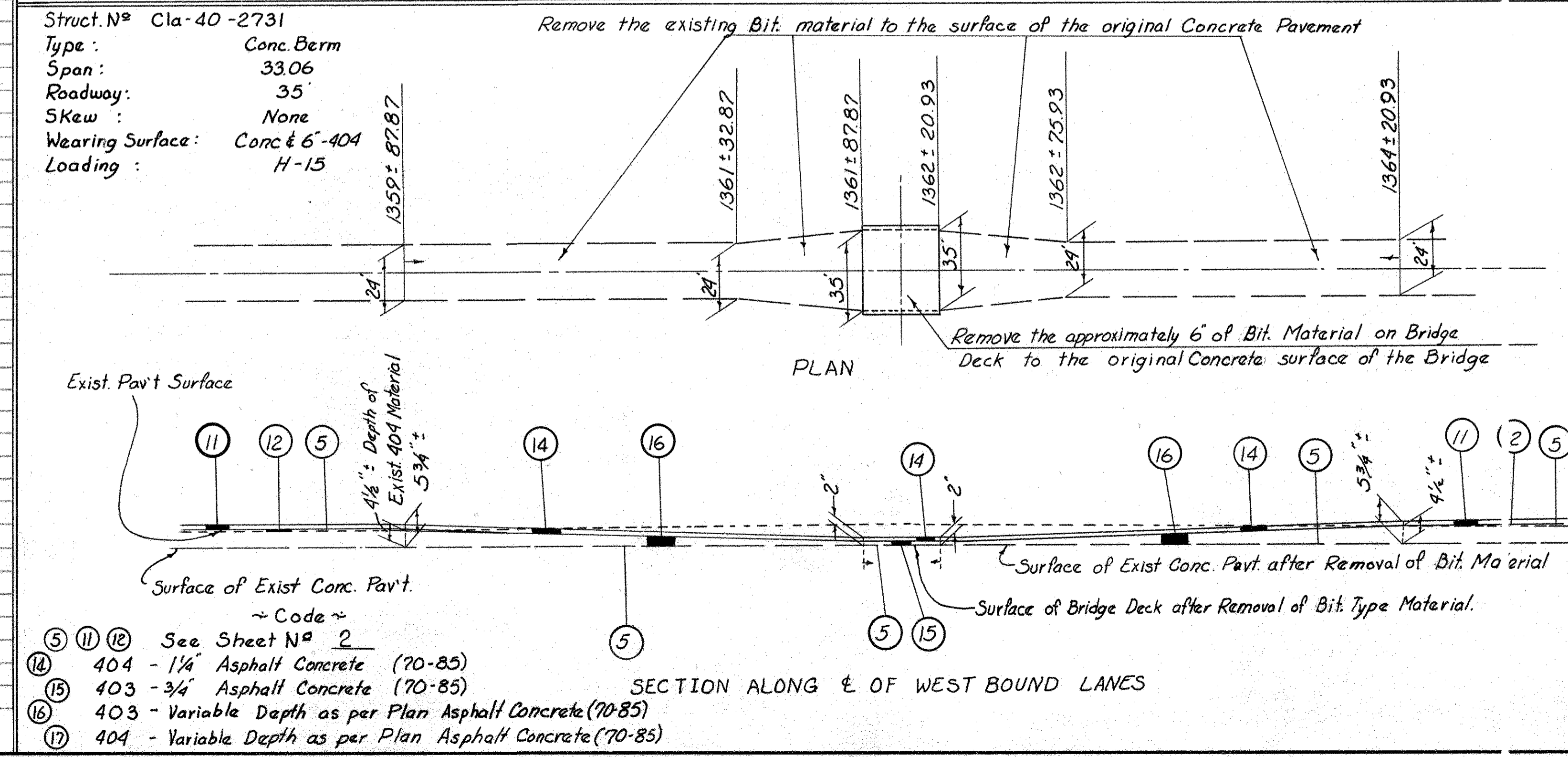
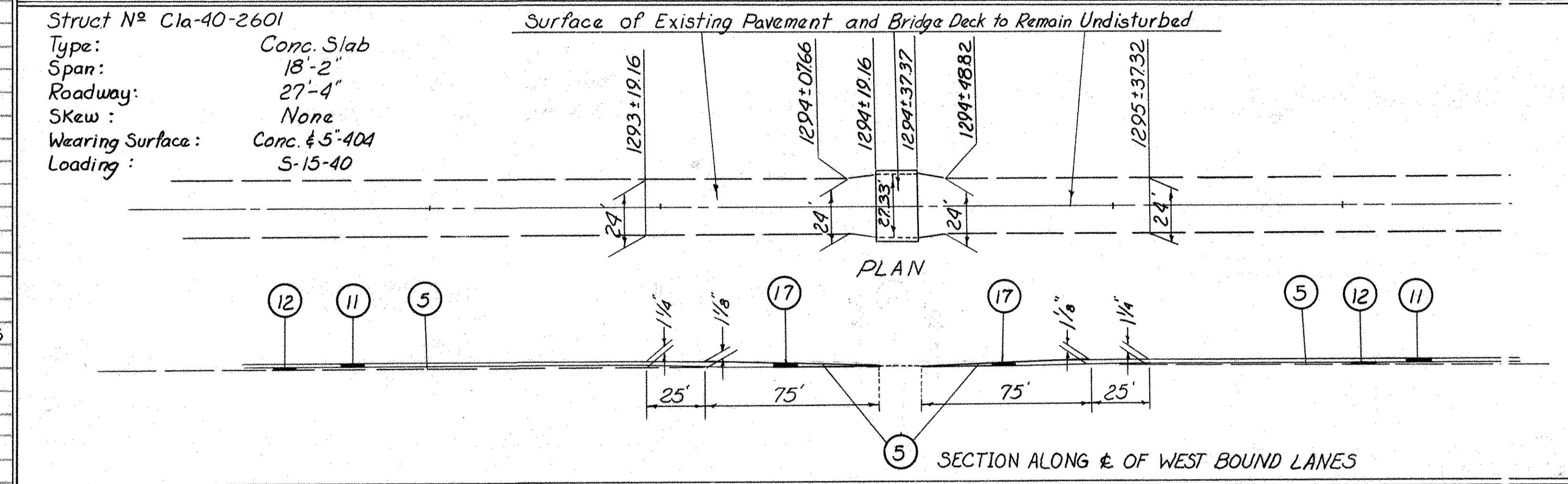
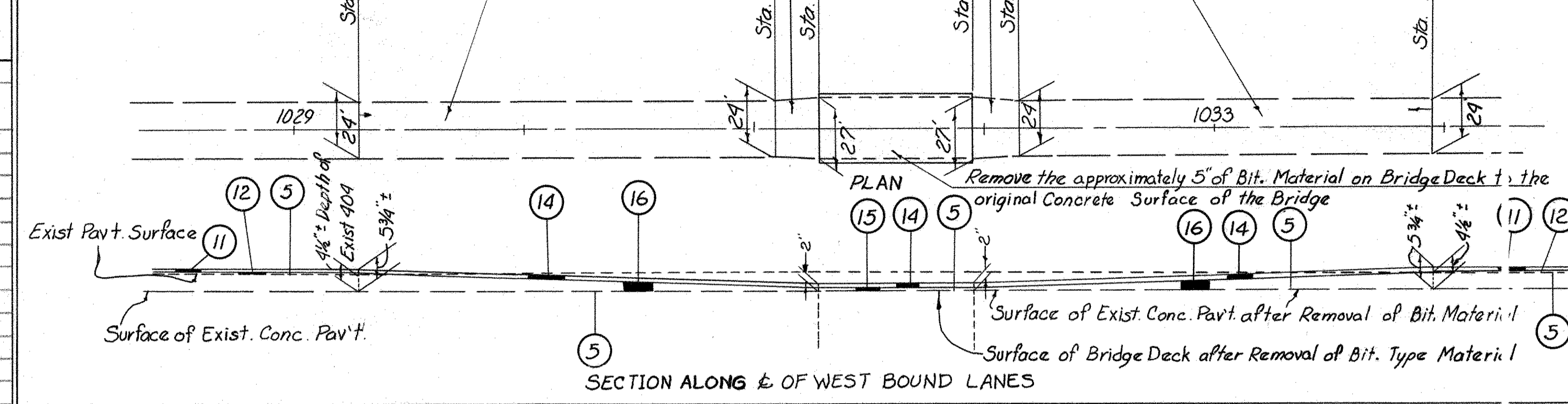
410 Traffic Compacted Surface, Type "A" or "B"	50 Cu. Yd.
616 Calcium Chloride	2 Tons
616 Water	50 M. Gal.

Totals to General Summary

SCHEDULE OF OPERATIONS: All pavement resurfacing and berm adjustment work east of Sta. 960 to the Madison County Line shall be completed sufficiently to accommodate traffic by November 30, 1968. Intersection work shall be scheduled to give priority to the early completion of the intersection at Sta. 822±, to the extent necessary to make it conveniently useable by traffic. No open trench or irregular berm areas will be permitted adjacent to the pavement when work is delayed for extended periods of time because of seasonal winter weather conditions (See Note in Proposal).

CLARK COUNTY
CLA-40-16.92-2570

Struct. No. Cla-40-2103
Type: Encased Steel Girder
Span: 67'
Roadway: 27'
Skew: None
Wearing Surface: Conc. & 5' 404
Loading: H-15



EXTRA PAVEMENT TABLE

STATION		SIDE	202-Exist. wearing course removed & disposed of		Applied @ Rate of 407		REMARKS
FROM	TO		SQ. YDS.	CU. YDS.	CU. YDS.	GALS.	
STA. 815+29.31	STA. 815+49.31	FULL WIDTH		.55		5.33	FEATHER
STA. 890+00		Rt.		.75		6.83	CROSS OVER
STA. 894+93		Rt.		.75		6.83	CROSS OVER
STA. 908+82	STA. 910+60	Rt.		2.29		22.00	CROSS OVER & FLARE
STA. 934+75		Rt.		.75		6.83	CROSS OVER
STA. 960+89.5		Rt.		.75		6.83	CROSS OVER
STA. 972+75		Rt.		.75		6.83	CROSS OVER
STA. 982+74		Rt.		.75		6.83	CROSS OVER
STA. 993+55		Rt.		.43		4.17	APPROACH & CROSS OVER
STA. 997+79.1		Rt.		.69		6.67	APPROACH & CROSS OVER
STA. 1028+11.5		Rt.		.75		6.83	CROSS OVER
STA. 1029+28.15	STA. 1033+95.15		1274.0	44.21	76.56	127.40	BRIDGE
STA. 1036+29.3		Rt. & Lt.		3.33		32.00	APPROACH & CROSS OVER
STA. 1048+65		Rt.		.75		6.83	CROSS OVER
STA. 1063+17.2		Rt.		1.71		16.44	CROSS OVER
STA. 1070+56		Rt.		.75		6.83	CROSS OVER
STA. 1112+86		Rt.		.96		9.17	CROSS OVER
STA. 1117+10		Rt.		.96		9.17	CROSS OVER
STA. 1137+25		Rt.		.75		6.83	CROSS OVER
STA. 1143+90.20		Rt. & Lt.		3.32		31.87	APPROACH & CROSS OVER
STA. 1155+95.55		Rt.		.75		6.83	CROSS OVER
STA. 1167+46		Rt.		.75		6.83	CROSS OVER
STA. 1177+90		Rt.		.75		6.83	CROSS OVER
STA. 1186+77		Rt.		.75		6.83	CROSS OVER
STA. 1196+42		Rt.		1.10		10.50	CROSS OVER
STA. 1209+00	STA. 1216+73	Lt.		5.34	5.34	51.30	FLARE FOR EXTRA PAVEMENT
STA. 1220+75		Rt. & Lt.		2.39		22.94	APPROACH & CROSS OVER
STA. 1234+17.07	STA. 1240+73.49	Lt.		6.21	6.21	59.69	DECELERATION & ACCELERATION LANES
STA. 1237+02.7		Rt. & Lt.		2.83		27.20	APPROACH & CROSS OVER
STA. 1268+13		Rt. & Lt.		2.22		21.33	APPROACH & CROSS OVER
STA. 1274+15	STA. 1277+33	Lt.		3.60	3.60	34.60	FLARE FOR EXTRA PAVEMENT
STA. 1277+33		Rt.		.75		6.83	CROSS OVER
STA. 1293+19.16	STA. 1295+37.32		593.0	11.18		32.41	BRIDGE
STA. 1305+91.12		Rt. & Lt.		2.90		27.82	APPROACH & CROSS OVER
STA. 1313+17		Rt.		.75		6.83	CROSS OVER
STA. 1324+70		Rt.		.75		6.83	CROSS OVER
STA. 1339+90		Rt.		.75		6.83	CROSS OVER
STA. 1351+72		Rt.		.75		6.83	CROSS OVER
STA. 1359+87.87	STA. 1364+20.93		1263.0	43.80	85.39	126.25	BRIDGE
STA. 1367+90		Rt.		.81		7.78	CROSS OVER
STA. 1374+59.52		Rt. & Lt.		2.56		24.58	APPROACH & CROSS OVER
STA. 1384+79.85		Rt.		1.32		12.71	CROSS OVER
STA. 1398+27		Rt.		.75		6.83	CROSS OVER
STA. 1409+99		Rt.		.75		6.83	CROSS OVER
STA. 1433+65		Rt.		.75		6.83	CROSS OVER
STA. 1445+64.82	STA. 1445+84.82	Rt. & Lt.		.55		5.33	FEATHER
TOTALS TO GENERAL SUMMARY			3130	162	177	879	

DATE: 3-29-68
 LES: 4-13-68
 DETAILS CHECKED: [Signature]
 DETAILS REVISIONS: [Signature]

CALCULATIONS

404 ASPHALT CONCRETE

From Typical Sections N ^o 3 & N ^o 4 = 58,225.13 + 1,452.47 = 59,677.60 Lin.Ft.	
$59,677.60 \times 24' \times \frac{34}{100} \div 324 =$	3315.4 Cu.Yd.
From Typical Section N ^o 5 = 594.69 @ 1,625.00 Lin.Ft.	
$594.69 \times 26' \times \frac{34}{100} \div 324 =$	35.8 Cu.Yd.
$1,625.00 \times 32' \times \frac{34}{100} \div 324 =$	120.4 Cu.Yd.
Add for Gutter Treatment = $2219.69 \times 1.25 \times 0.25 \times \frac{1}{2} \times \frac{1}{27} =$	2.1 Cu.Yd.
Add for Paved Berm On Left Typical Section N ^o 3 = 5,089 Lin.Ft.	
$5089 \times [(4' \times 1.25' \times \frac{1}{2}) \div 2] \times \frac{1}{27} =$	39.2 Cu.Yd.
Total	= 3,512.90 Cu.Yd.
Total to General Summary	= 3,513 Cu.Yd.

403 ASPHALT CONCRETE

From Typical Sections N ^o 3 & N ^o 4 = 58,225.13 + 1,452.47 = 59,677.60 Lin.Ft.	
$59,677.60 \times 24' \times \frac{1}{2} \div 324 =$	2210.3 Cu.Yd.
From Typical Section N ^o 5 = 594.69 @ 1,625.00 Lin.Ft.	
$594.69 \times 24.75' \times \frac{1}{2} \div 324 =$	22.7 Cu.Yd.
$1,625.00 \times 30.75' \times \frac{1}{2} \div 324 =$	77.1 Cu.Yd.
Total	= 2,310.10 Cu.Yd.
Total to General Summary	= 2,310 Cu.Yd.

407 BITUMINOUS TACK COAT

From Typical Sections N ^o 3 & N ^o 4 = 58,225.13 + 1,452.47 = 59,677.60 Lin.Ft.	
$59,677.60 \times 24' \times \frac{1}{16} \times 0.1 =$	1,591.40 Gal.
From Typical Section N ^o 5 = 594.69 @ 1,625.00 Lin.Ft.	
$594.69 \times 26' \times \frac{1}{16} \times 0.1 =$	171.8 Gal.
$1,625.00 \times 32' \times \frac{1}{16} \times 0.1 =$	577.8 Gal.
Add for Paved Berm On Left - Typical Section N ^o 5 = 5,089.00 Lin.Ft.	
$5089 \times 4' \times \frac{1}{16} \times 0.1 =$	226.2 Gal.
Total	= 1,689.8 Gal.
Total to General Summary	= 1,689 Gal.

411 CRUSHED AGGREGATE

From Typical Section N ^o 3 = 58,225.13 Lin.Ft.	
$58,225.13 \times [(4' \times 1.25' \times \frac{1}{2}) \div 2] \times \frac{1}{27} \times 2 =$	898.5 Cu.Yd.
Deduct for Paved Berm On Left = 5,089.00 Lin.Ft.	
$5089 \times [(4' \times 1.25' \times \frac{1}{2}) \div 2] \times \frac{1}{27} =$	-39.3 Cu.Yd.
From Typical Section N ^o 4 = 1,452.47 Lin.Ft.	
$1,452.47 \times [(4' \times 1.25' \times \frac{1}{2}) \div 2] \times \frac{1}{27} =$	11.2 Cu.Yd.
Total	= 870.4 Cu.Yd.
Total to General Summary	= 870 Cu.Yd.

616 CALCIUM CHLORIDE

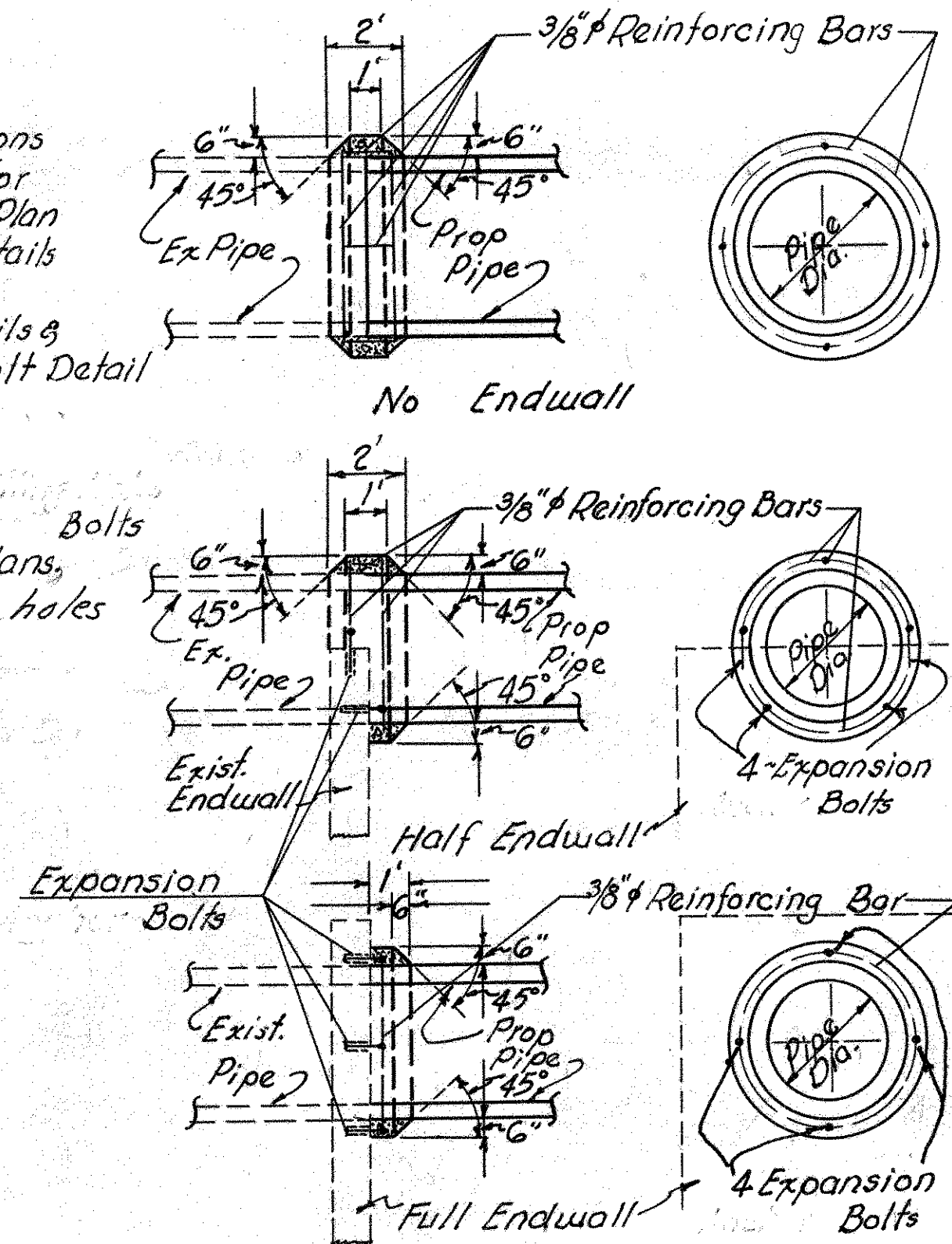
From Typical Section N ^o 3 = 58,225.13 Lin.Ft.	
$(58,225.13 \times 4 \times 2 \div 9) \div 2000 =$	25.9 Tons
Deduct for Paved Berm = 5,089.00 Lin.Ft.	
$(5089 \times 4 \times 1 \div 9) \div 2000 =$	-1.1 Tons
From Typical Section N ^o 4 = 1,452.47 Lin.Ft.	
$(1,452.47 \times 4 \times 1 \div 9) \div 2000 =$	0.3 Tons
Total	25.1 Tons
Total to General Summary	25 Tons

DETAILS

CONCRETE COLLAR DETAILS

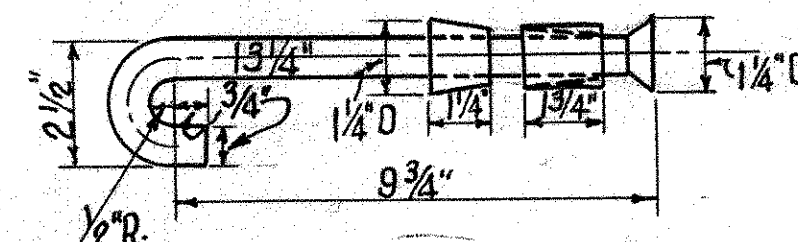
For Pipe Sizes & Locations of Concrete Collars for Pipe Extensions See Plan and or Structure Details

Concrete Collar Details & Expansion Bolt Detail Not to Scale.



where Expansion Bolts are called for on Plans, provide Dowel holes in accordance with item 510

SIDE VIEWS END VIEWS

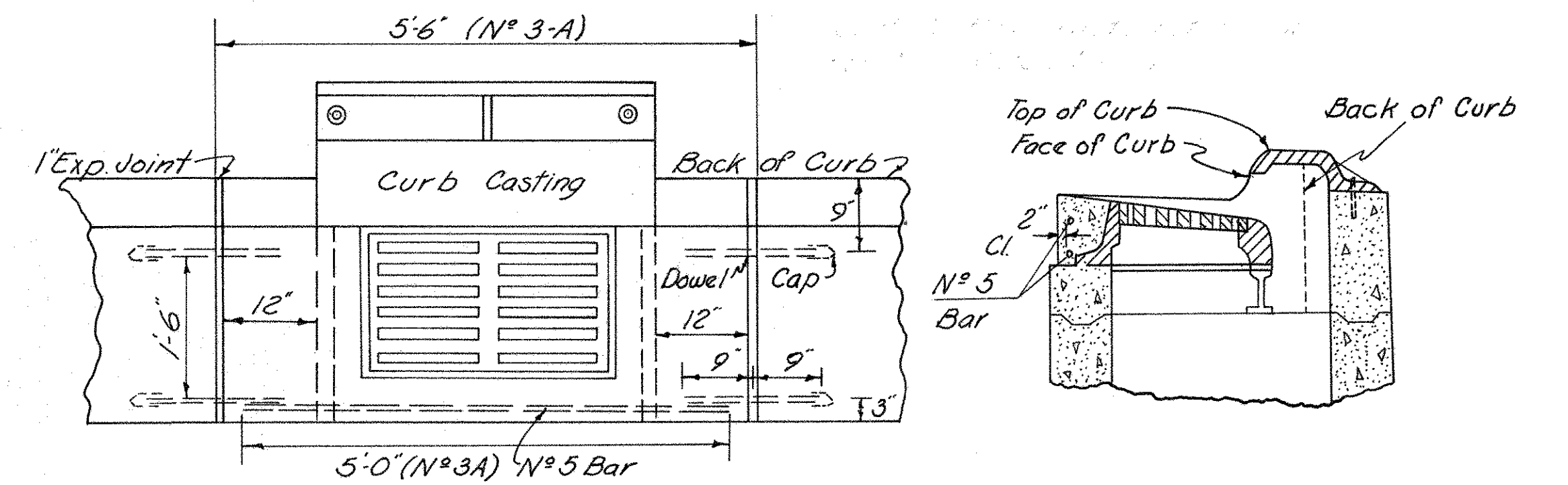


EXPANSION BOLT DETAIL
Note: Price for Expansion Bolts shall include Cost of all labor and material required to complete placing this item. Expansion Bolts shall be as shown or equal subject to approval by the Engineer. The cost of the 3/8" Hoop Bars shall be included in the Unit Price Bid for G02 Concrete Masonry.

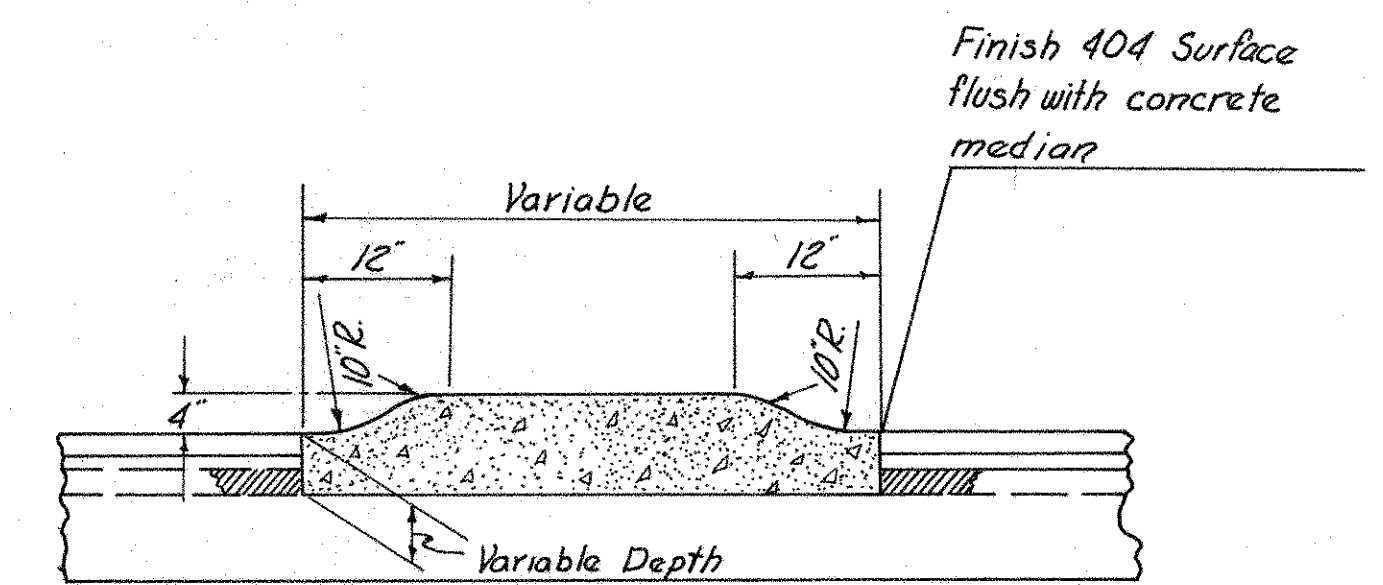
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

CLARK COUNTY
CLA-40-16.92-25.70

STANDARD N^o 3-A CATCH BASIN (MODIFIED)



The cost of the N^o 5 Bar shall be included in the unit price bid for Item 604 Std N^o 3-A Catch Basin (Modified). All dimensions and items not shown shall be the same as shown on Standard Construction Drawing, C.C. N^o 3-A.



DETAIL OF CONCRETE MEDIAN AS PER PLAN

659 Seeding & Mulching ~ Estimated from Scaled Areas off Plan Sheets							
Sheet No.	Station to Station	Side	Sq. Yd.	Sheet No.	Station to Station	Side	Sq. Yd.
10	815+29 ~ 855+00	Rt.	4464	16	881+25 ~ 886+00	Med.	18.7
10	815+29 ~ 855+00	Lf.	3625	17	922+00 ~ 926+50	Rt.	25.0
10	815+29 ~ 855+00	Med.	680	17	922+00 ~ 926+25	Med.	16.3
10	11+27.38 ~ 13+84.11	4th Ave. Lt.	2555	17	926+90 ~ 932+00	Med.	19.3
11	825+00 ~ 836+00	Rt.	2515	17	926+75 ~ 932+00	Lf.	23.3
11	825+00 ~ 836+00	Lf.	2735	17	926+59.70 ~ Radmond Rd.	Lf.	18.3
11	825+00 ~ 836+00	Med.	4472	18	941+00 ~ 945+50	Rt.	20.0
12	836+00 ~ 844+50	Rt.	1417	18	946+00 ~ 950+00	Med.	15.6
13	99+00WB ~ 104+00	Lf.	3056	18	945+74.55 ~ Tilus Rd.	Rt.	3.3
13	848+00 ~ 852+50	Med.	1250				
13	853+00 ~ 857+00	Med.	1167				
13	100+00WB ~ Tuttle Rd.	Lf.	533				
14	857+00 ~ 858+00	Lf.	222				
14	862+50 ~ 867+00	Lf.	1000				
14	858+00 ~ 861+80	Med.	1267				
15	870+85 ~ 875+50	Lf.	1033				
15	866+00 ~ 870+00	Med.	1111				
16	876+00 ~ 880+30	Rt.	1911				
16	881+00 ~ 887+00	Lf.	4000				
16	876+00 ~ 880+50	Med.	1750				
Total to Summary							56,301

LINEAR GRADING CONTROLS

CLARK COUNTY
CLA-40-16.92-25.70

STATION	ELEV. OF SIDE DITCH NORTH	MEDIAN DITCH ELEVATION	ELEVATION OF SIDE DITCH SOUTH	IN SLOPE	BACK SLOPE	MEDIAN SLOPE LEFT	MEDIAN SLOPE RIGHT	REMARKS	STATION	ELEV. OF SIDE DITCH NORTH	MEDIAN DITCH ELEVATION	ELEV. OF SIDE DITCH SOUTH	IN SLOPE	BACK SLOPE	MEDIAN SLOPE LEFT	MEDIAN SLOPE RIGHT	REMARKS
818+00		Curbed Median	1011.3	As per Typical Sec. 1 Fill		1/2":1 Center to Curb	1/2":1 Center to Curb		928+55	No Ditch			As per Typical Sec. No. 1 Fill				
819+00		"	1011.6	"		"	"		929+00		1047.5				8:1	1":1	
820+00		"	1011.9	"		3/4":1 Curb to Curb Lt.			929+54	No Ditch			As per Typical Sec. No. 1 Fill				
821+00		Conc. Med. Pavement	1012.2	"		"			930+00		1047.6				10:1	1":1	
822+00		Median Cross Over Location							930+55	No Ditch			8:1 from Berms to Ex. Ground				
822+54		No Ditch		As per Typical Sec. 1 Fill					942+00		1044.6		As per Typical Sec. No. 1				
823+00		1019.7	1015.0	Typical Sec. 1		3/4":1	1":1		943+00		1043.8		"				
823+54	1018.6			8:1	4:1				944+00		1043.5		"				
824+00		1021.4	1017.0	Typical Sec. 1		8:1	1":1		945+00		1042.8		"				
824+54	1022.7			8:1	4:1				947+00		1043.4				6:1	Exist. Ground	
825+00		Meet # Grate Ex. C.B.	1020.0	Typical Sec. 1					948+00		1042.7				6:1	"	
825+54	1026.5			8:1	4:1				949+00		1041.8						
826+00		1027.0	1024.0	Typical Sec. 1		Exist. Ground	8:1										
827+00		1030.4	1025.75	"		"	8:1										
828+00		1033.3	1027.50	"		"	8:1										
829+53	No Ditch			Typical Sec. 1 Fill													
830+53	No Ditch			"													
831+54	No Ditch			6:1 from Berm to Exist Prop. Berm to Ex. Berm													
832+54	No Ditch			"													
850+00		1087.7				Exist. Ground	4:1										
851+00		1089.0				"	8:1										
852+00		1089.7				"	8:1										
853+00	Median Cross Over Location								See X-Section Sheets No. 21 ~ 24 for Grading Details Sta. 10162.9 to Sta. 13184.11 4th AVENUE EXTENSION Ditch Grading Between East Bound Lanes and Service Road to the South								
853+59	No Ditch			Typical Sec. 1 Fill													
854+00		1089.3				6:1	Exist. Ground		828+50	Vary Slopes to Meet E of Entrance of Exist. 24" Conc. Pipe Under Service Road							
854+59	No Ditch			Typical Sec. 1					829+09		1034.7		6:1	Exist. Ground Line			
855+00		1089.7				8:1	Exist. Ground		830+00		1036.8		6:1	"			
855+58	No Ditch			"					831+00		1037.5		4:1	4:1			
856+00		1088.2				6:1	Exist. Ground		832+00		1043.7		8:1	Exist. Ground Line			
856+58	No Ditch			8:1 from Berm to Ex.					833+00		1047.5		8:1	"			
857+00		Prop. Berm to Ex. Berm							833+48		1049.2		8:1	"			
858+15		1087.3				Exist. Ground	Exist. Ground		834+00		1051.2		8:1	"			
859+00		1087.1				"	8:1		835+00		1054.0		8:1	"			
859+27		1087.0				"	6:1		836+00		1057.0		8:1	"			
860+00		1086.8				"	6:1		837+00		1060.0		8:1	"			
861+00		1086.5				"	8:1		838+00		1052.5		8:1	"			
863+56	No Ditch			Typical Sec. 1					839+00		1064.0		6:1	"			
864+56	No Ditch			"					840+00		1066.2		4:1	"			
865+56	No Ditch			"					841+00		1069.0		4:1	"			
866+57	No Ditch			"					842+00		1072.7		6:1	"			
867+00		1081.8				Exist. Ground	6:1		843+00		1076.7		8:1	8:1			
867+39		1081.8				"	6:1		844+00		1079.2		8:1	4:1			
868+00		1081.6				"	6:1		844+50	Vary Slopes to Meet E of Outlet of Exist. Pipe							
869+00		1081.3				"	6:1										
870+00		1081.1				"	8:1										
871+57	No Ditch			Typical Sec. 1 Fill													
872+57	No Ditch			"													
873+57	No Ditch			"													
874+57	No Ditch			"													
877+00			1075.2	Typical Sec. 1													
878+00		1074.9	1074.5	"		Exist. Ground	8:1										
879+00		1074.6	1074.1	"		"	8:1										
880+00		1074.2	1071.7	5:1	-4' - 3:1	8:1	8:1										
882+00		1073.7				8:1	8:1										
882+54	1070.5			Typical Sec. 1													
883+00		1072.0				8:1	7:1										
883+54	No Ditch			Typical Sec. 1 Fill													
884+00		1070.6				8:1	Exist. Ground										
884+54	No Ditch			"													
885+54	No Ditch			"													
920+00		1049.8				7:1	6:1										
920+74		1049.7				7:1	8:1										
921+00		1049.6				8:1	8:1										
922+00		1049.4				8:1	1":1										
923+00		1049.2	1048.0	Typical Sec. 1		8:1	3/4":1										
924+00		1049.0	1047.5	"		1":1	3/4":1										
924+19		1048.9	1047.4	"		1":1	3/4":1										
925+00		1048.7	1047.2	"		8:1	3/4":1										
926+00		1048.5	1045.8	"		Exist. Ground	8:1										
927+00	Median Cross Over Location																
927+53	No Ditch			Typical Sec. 1 Fill													
928+00		1047.8				8:1	1":1										

DATE: 3-1-68
 BY: LES
 CHECKED: LES
 DESIGNED: LES
 REVISIONS:

GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

8
42

CLARK COUNTY
CLA - 40 - 16.02 ~ 25.70

FROM SHEET N^o

LINE ITEM															TOTALS	UNIT	DESCRIPTION			
	3	4	5	6	10	11	12	13	14	15	16	17	18							
1																	~ ROADWAY ~			
2																				
3			Lump															Lump Lump Clearing and Grubbing		
4								275									275 Lin.Ft. Guard Rail Removed for Storage			
5			1500		398	200											2098 Sq.Yd. Existing Pavement Removed and Disposed of			
6					1244											1244 Sq.Ft. Existing Sidewalk Removed and disposed of				
7																				
8																				
9			3130															3130 Sq.Yd. Existing Wearing Course Removed and Disposed of		
10																				
11				1028	187		274	184	184	470	265	178					2770 Lin.Ft. Existing Curb and Gutter Removed and disposed of			
12																				
13														Lump		Lump Lump Portions of Existing Structures Removed				
14																				
15				8	90							18	78			194 Lin.Ft. Pipe Removed 24" an Under				
16																				
17				13	12	9	10	10	10	13	15	11					103 Sta. Linear Grading, as per plan			
18																				
19				3518	907		878	615	621	1240	1134	616					9529 Sq.Yd. Subgrade Preparation			
20																				
21				870															870 Cu.Yd. Stabilized Crushed Aggregate	
22																				
23					975															975 Sq.Ft. Concrete Walk
24		2		25															27 Ton Calcium Chloride	
25																				
26		50															50 M.Gal Water			
27																				
28					240															240 Sq.Yd. Sodding, Special Berm and Slope Protection, as per plan
29				56801															56801 Sq.Yd. Seeding and Mulching	
30				125		125							125	375			750 Sq.Yd. Jute Matting			
31				5.13															5.13 Tons Commercial Fertilizer (12-12-12)	
32																				
33				292	118	244											2354 Sq.Yd. Riprap using 6" Reinforced Concrete Slab, as per plan			
34							5									5 Cu.Yd. Dump Rock Channel Protection				
35																	~ DRAINAGE ~			
36							4			8	16	4					32 Ea. Dowel Hole			
37				0.2	0.4		0.3			0.8	0.8	0.9					3.4 Cu.Yd. Concrete Masonry			
38							4			8	16	4					32 Ea. Expansion Bolt			
39				3															3 Ea. Inlet Removed	
40																				
41				2	1							1					4 Ea. Catch Basin Removed			
42					1															1 Ea. Manhole Adjusted To Grade
43										30	22					52 Lin.Ft. 12" Conduit Type A with Class B Bedding				
44																				
45										20	62					82 Lin.Ft. 18" Conduit Type A with class B Bedding				
46																				
47					16															16 Lin.Ft. 24" Conduit Type A with Class B Bedding
48																				
49			50															50 Lin.Ft. 6" Conduit Type B with Class B Bedding		
50																				
51																				
52																				
53			50															50 Lin.Ft. 10" Conduit Type B with Class B Bedding		
54																				
55				142															142 Lin.Ft. 12" Conduit Type B with Class B Bedding	
56																				
57							20	6	18	16	18					78 Lin.Ft. 15" Conduit Type B with Class B Bedding				
58																				
59				24	8	50											82 Lin.Ft. 18" Conduit Type B with Class B Bedding			
60																				
61											44					44 Lin.Ft. 30" Conduit Type B with Class B Bedding				
62																				
63							6									6 Lin.Ft. 6" Conduit Type C with Class B Bedding				

DATE: 5-7-68
BY: LES
CHECKED: JFC
5-8-68
REVISIONS: DETAILS CHECKED
DETAILS REVISED

GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

9
42

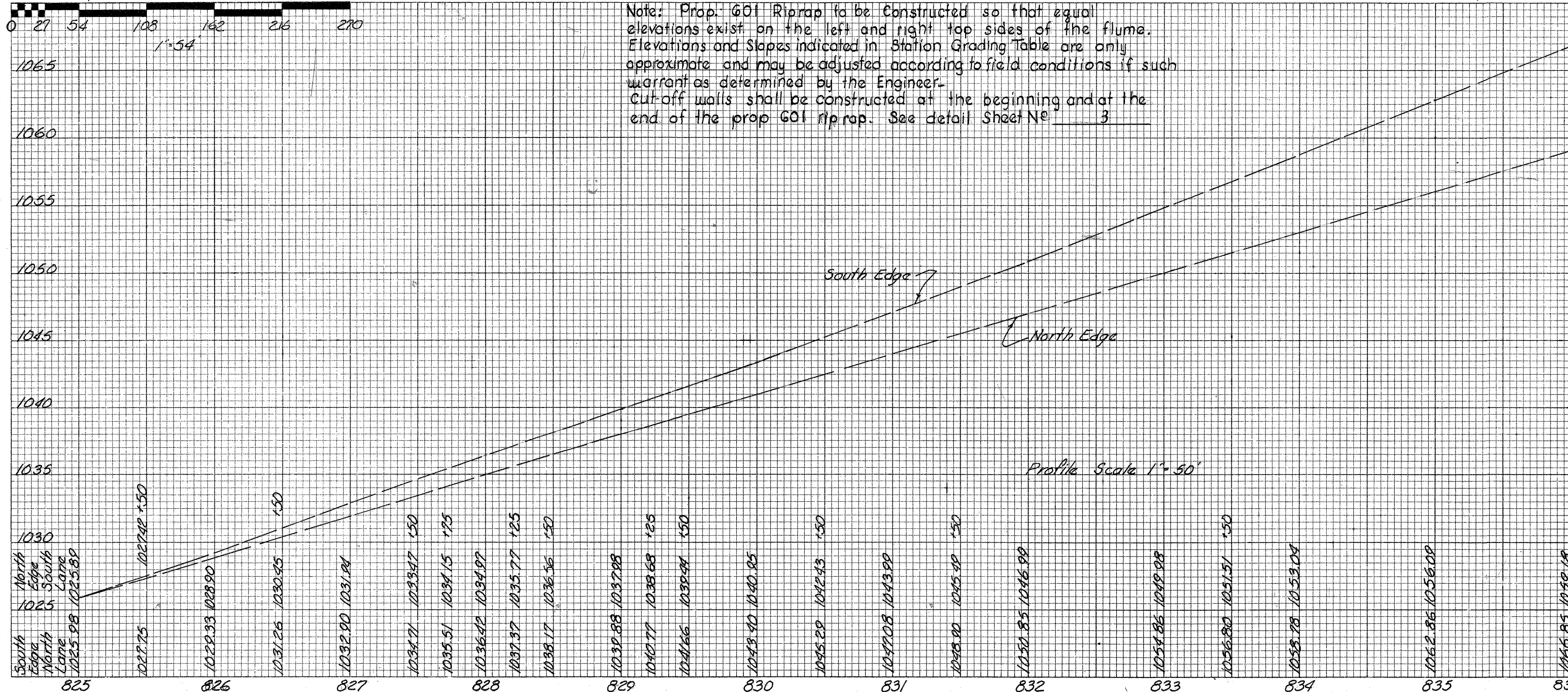
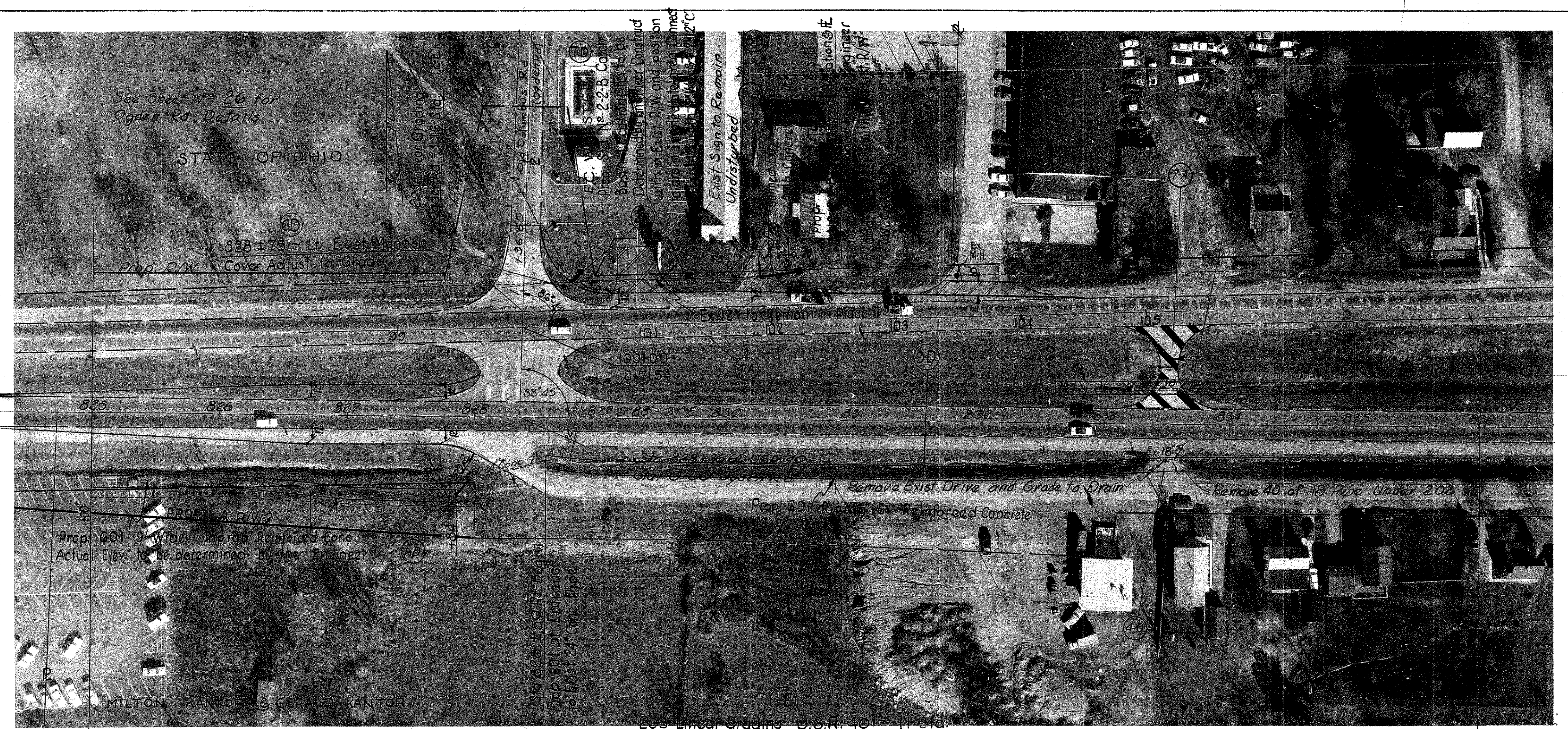
CLARK COUNTY
CLA-40-16.92~25.70

FROM SHEET N°

LINE ITEM	FROM SHEET N°															TOTALS	UNIT	DESCRIPTION
	3	4	5	6	10	11	12	13	14	15	16	17	18					
64																		
65 603							30										30	LinFt. 12" Conduit Type C with B Bedding
66 603		40															40	LinFt. 6" Conduit Type E
67 603												94					94	LinFt. 12" Conduit Type D
68 603		40															40	LinFt. 8" Conduit Type E
69																		
70 603		40															40	LinFt. 12" Conduit Type E
71																		
72 603		20															20	LinFt. 6" Conduit Type F
73																		
74 603		20															20	LinFt. 8" Conduit Type F
75																		
76 603		20															20	LinFt. 10" Conduit Type F
77 604						1											1	Ea. Special Catch Basin, using Salvaged Grate & Frame
78 604						1	2										3	Ea. Standard N° 2-2-B Catch Basin
79																		
80 604						2											2	Ea. Standard N° 3A Catch Basin, Modified as per plan
81																		
82																		
83																		
84 604							1		1	1							3	Ea. Standard N° 5 Catch Basin, Modified as per plan
85																		
86																		
87																		
88 604						1		1				1					3	Ea. Standard N° 8 Catch Basin
89																		
90 604												1	1				2	Ea. Standard N° 8 Catch Basin, Modified as per plan
91																		
92 605	1200																1200	LinFt. Aggregate Drains
93																		
94																		
95																		
96 301	375					759	294		292	200	201	403	379	199			3102	CUYD. Bituminous Aggregate Base 702.01(85-100) or 702.09 RT-10
97																		
98 304						178	245		164	113	114	236	263	111			1424	CUYD. Aggregate Base
99																		
100 310	167					395	137		142	96	97	196	184	96			1510	CUYD. Subbase Grading C or D
101																		
102 402						102	37		37	26	25	51	48	25			351	CUYD. Asphalt Concrete (70-85)
103																		
104 403						177	290	26	29	27	29	28	38	30	27		2721	CUYD. Asphalt Concrete (70-85)
105																		
106 404						15	162	313	105	85	67	62	59	97	82	58	4305	CUYD. Asphalt Concrete (70-85)
107																		
108 407						879	1480	206	226	211	230	225	284	237	210		19598	Gal. Tack Coat 702.04 MS-2 or RS-1 or 702.02 RC-70 or RC-250
109																		
110 408									127	28				43			198	Gal. Bituminous Prime Coat 702.09 RT-2 or RT-3
111																		
112 409						149	257		207	153	154	325	309	147			1701	Gal. Bituminous Material for Seal Coat 702.09, RT-9 or RT-10 or 702.02, MC-800 or MC-1000
113																		
114 409									8	8	6	4	4	9	9	4	52	CUYD. Seal Coat Cover Aggregate No. 8
115 410						50											50	CUYD. Traffic Compacted Surface, Type A or B
116 609									395								395	LinFt. Combination Curb and Gutter, Standard Type 2
117 609									250								250	LinFt. Combination Curb and Gutter, Standard Type 3
118																		
119																		
120 612									91								91	SpYd. Standard Concrete Median, Modified as per plan.
121																		
122																		
123																		
124 614	Lump																Lump	Lump Maintaining Traffic
125																		For Traffic Signal Quantities See Sheet N° 38
126																		For Pavement Marking Quantities See Sheet N° 38

DATE 5-7-68
BY LES
CHECKED JFC
REVISIONS

PLAN	BY	DATE	CHK	REV.	DATE	REV.	DATE
TORO	JFC	2-15-68	EAC	2-15-68			
GEOMETRICS	JFC	2-15-68	J.A.	2-15-68			
STORM SEWERS	JFC	2-15-68	J.A.	2-15-68			
CULVERTS	JFC	2-15-68	J.A.	2-15-68			
PAV'T QUANT	JFC	2-15-68	J.A.	2-15-68			
WORK LIMITS	JFC	2-15-68	J.A.	2-15-68			
PROP. RW	JFC	2-15-68	J.A.	2-15-68			
OTHER QUANT	JFC	2-15-68	J.A.	2-15-68			



CLARK COUNTY
CLA-40-16.92-25.70

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

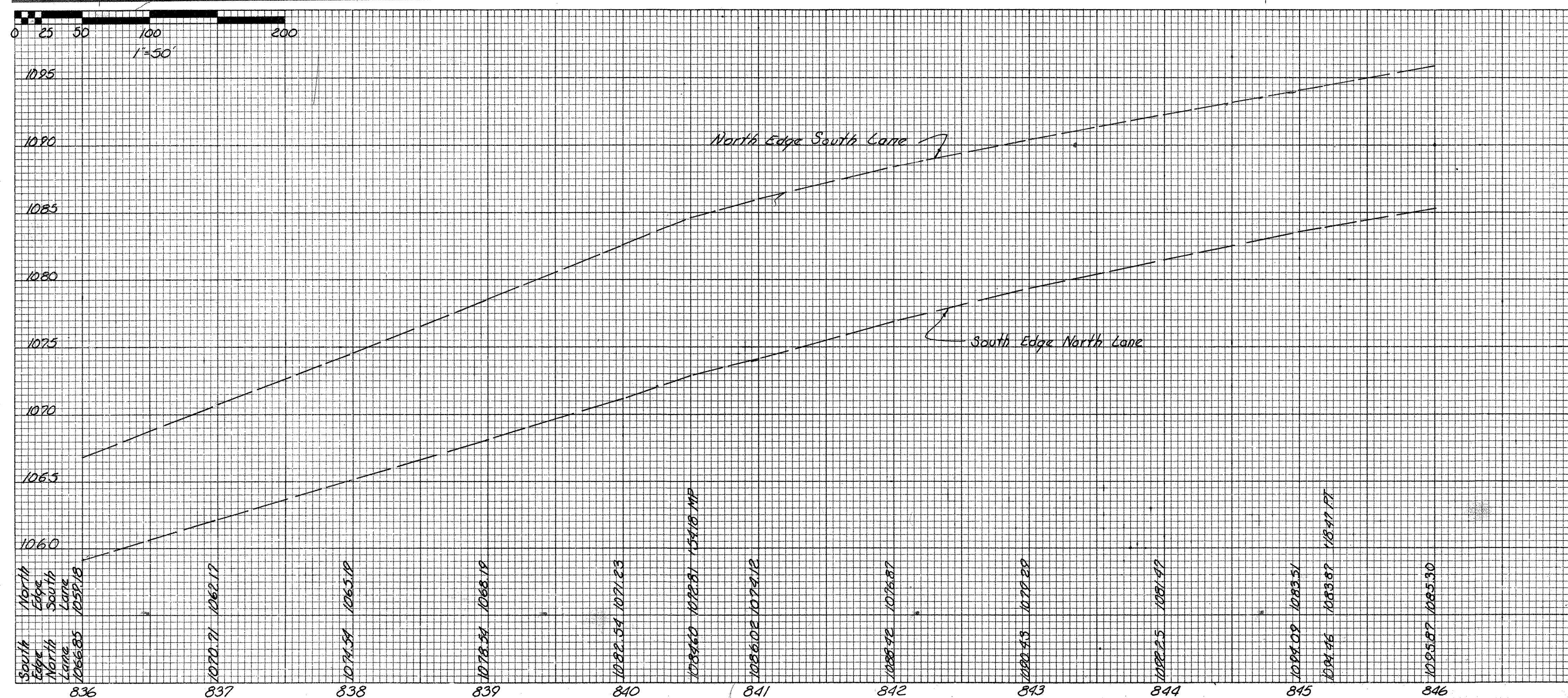
11
42

REF. NO.	STATION TO STATION	SIDE	ESTIMATED QUANTITIES
G03	12\"/>		
1-A	99+00WB TO 104+16.39	Lt.	15 13 36 104 50 99 3 73
2-A	824+08.42 TO 829+1.90	Lt.	43 12 181 93 45 56 2 41
3-A	824+28.42 TO 828+60.43	Rt.	9 12 9 97 42 102 3 76
1-D	827+97	Pt.	
2-D	828+50	Lt.	
3-D	825+00 ~ 827+84	Pt.	
4-D	833+20 ~ 833+69	Pt.	
5-D	832+60 ~ 835+00	Lt.	
6-D	828+75	Lt.	
7-D	829+25 ~ 830+55	Lt.	
8-D	828+50 ~ 836+00	Rt.	
4-A	829+23	Lt.	243
5-A	829+57 (Skewed)	Lt.	15.4
6-A	831+96	Lt.	157
7-A	833+50	Lt.	
1-E	825+00 ~ 836+00	48Rt.	
2-E	828+36.60	Lt.	
TOTALS To Summary			

PLAN & PROFILE - STA. 825+00 TO STA. 836+00

PROFILE	EXISTING GRADE	B.M.'S
JFC	2-15-68	EAC
JFC	2-15-68	EAC

FED. NO. DIVISION	STATE	PROJECT
2	OHIO	



PLAN AND PROFILE STA. 836+00 TO STA. 846+00

ESTIMATED QUANTITIES

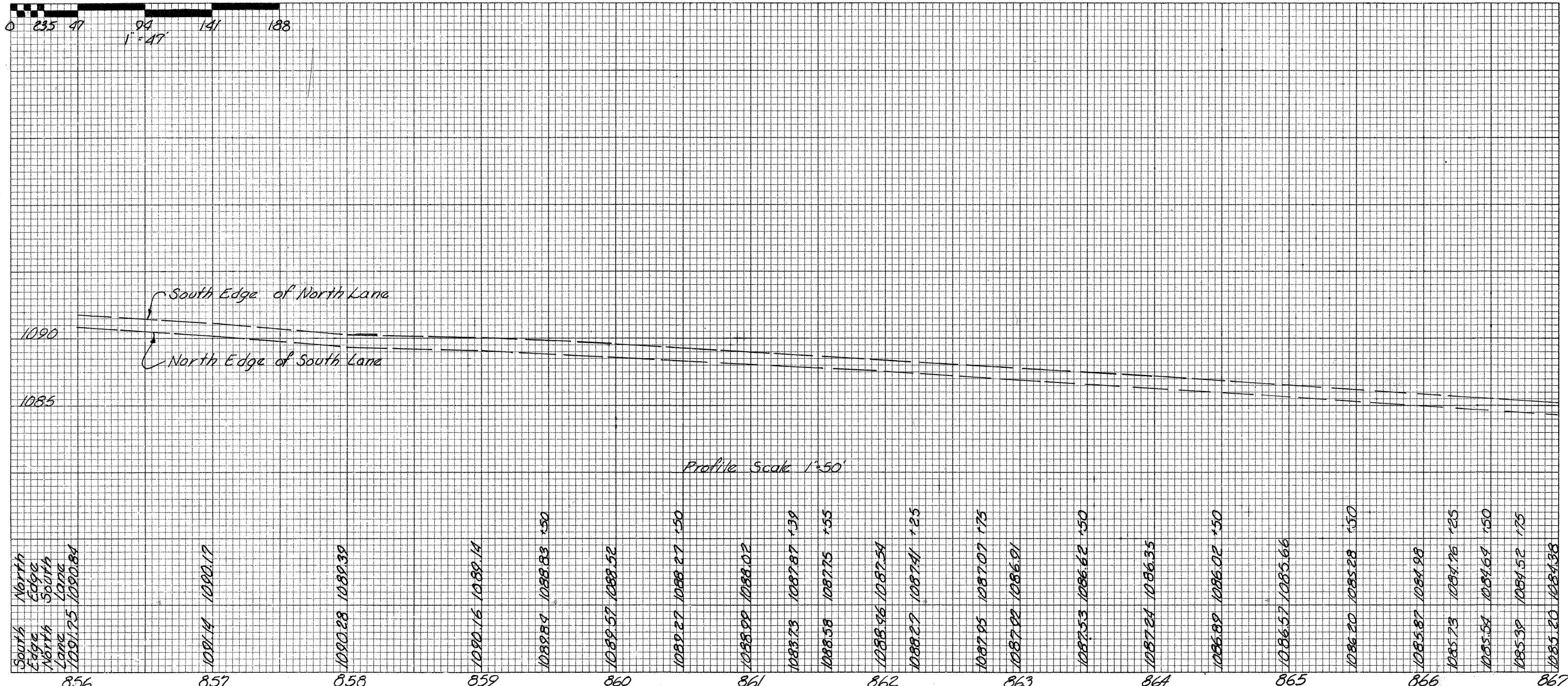
REF. NO.	STATION TO STATION	SIDE	601 Riprap & Reinforced Conc. Sq. Yd.	203 Linear Grading Sta.
F-D	836+00 ~ 844+50	Rt.	944	
F-E	836+00 ~ 844+50	Rt.		8.5
TOTALS To Summary			944	9

BY DATE CHK DATE REV. DATE	DATE	REV.	DATE
EAC	2-14-68	JFC	2-14-68
TES	4-9-68	LES	4-23-68
TES	4-9-68	LES	4-23-68
LES	5-4-68	TES	5-6-68

BY DATE CHK DATE REV. DATE	DATE	REV.	DATE
EAC	2-14-68	JFC	2-14-68
EAC	2-14-68	JFC	2-14-68

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
CHK	2-2-68	JFC	2-2-68				
DES	2-2-68	JFC	2-2-68				
DES	2-2-68	JFC	2-2-68				
DES	2-2-68	JFC	2-2-68				
DES	2-2-68	JFC	2-2-68				



PROFILE	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	2-2-68	JFC	2-2-68				
GRADE	2-2-68	JFC	2-2-68				
B. M. 'S							

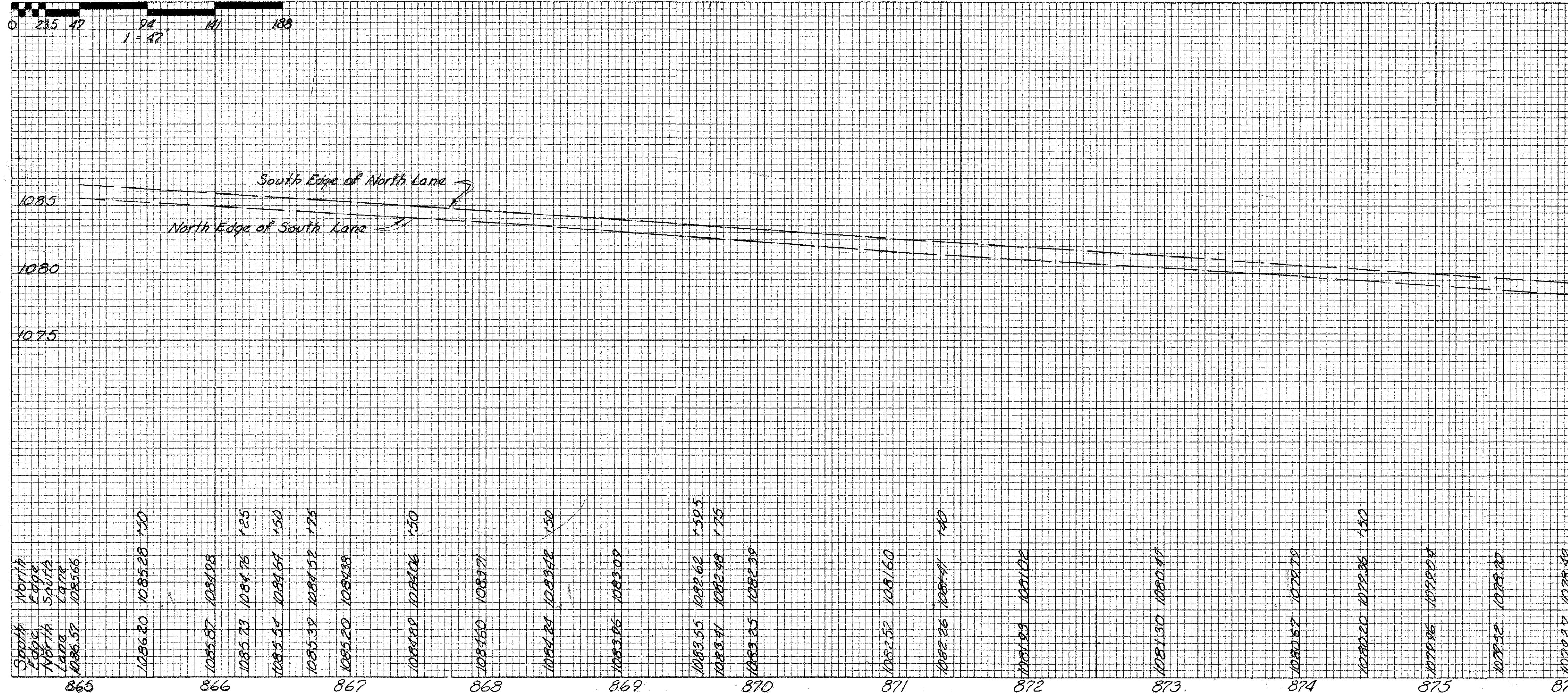
REF. NO.	STATION TO STATION	SIDE	ESTIMATED QUANTITIES	TOTALS To Summary
1-A	856+00 to 866+46.72	Lt.	203 Linear Grading Sta. 0.8	10
2-A	857+02.44 to 863+60.60	Lt.	409 402 Asphalt Conc. 18 14 49 106 50 98 3 72 98 6 334	62
3-A	866±25	Lt.	407 307 310 409 409 304 202 403 203 304 202 403 203 304 202 403 203	20
1-D	861+30	Lt.	407 307 310 409 409 304 202 403 203 304 202 403 203 304 202 403 203	1
1-E	858+00 to 867+00	Lt.	407 307 310 409 409 304 202 403 203 304 202 403 203 304 202 403 203	113
2-E	862+16.48	Lt.	407 307 310 409 409 304 202 403 203 304 202 403 203 304 202 403 203	4
				615
				29
				29
				4
				113
				184
				29
				615
				1
				20
				1
				20

PLAN & PROFILE STA. 856+00 TO STA. 867+00

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

BY DATE CHK DATE REV.	DATE REV.
EAC 1-28-68 JFC 2-3-68	
JES 2-27-68 JES 4-22-68	
JES 2-27-68 JES 4-22-68	
JES 5-4-68 JES 5-6-68	

BY DATE CHK DATE REV.	DATE REV.
EAC 2-3-68 JFC 2-3-68	
EAC 2-3-68 JFC 2-3-68	

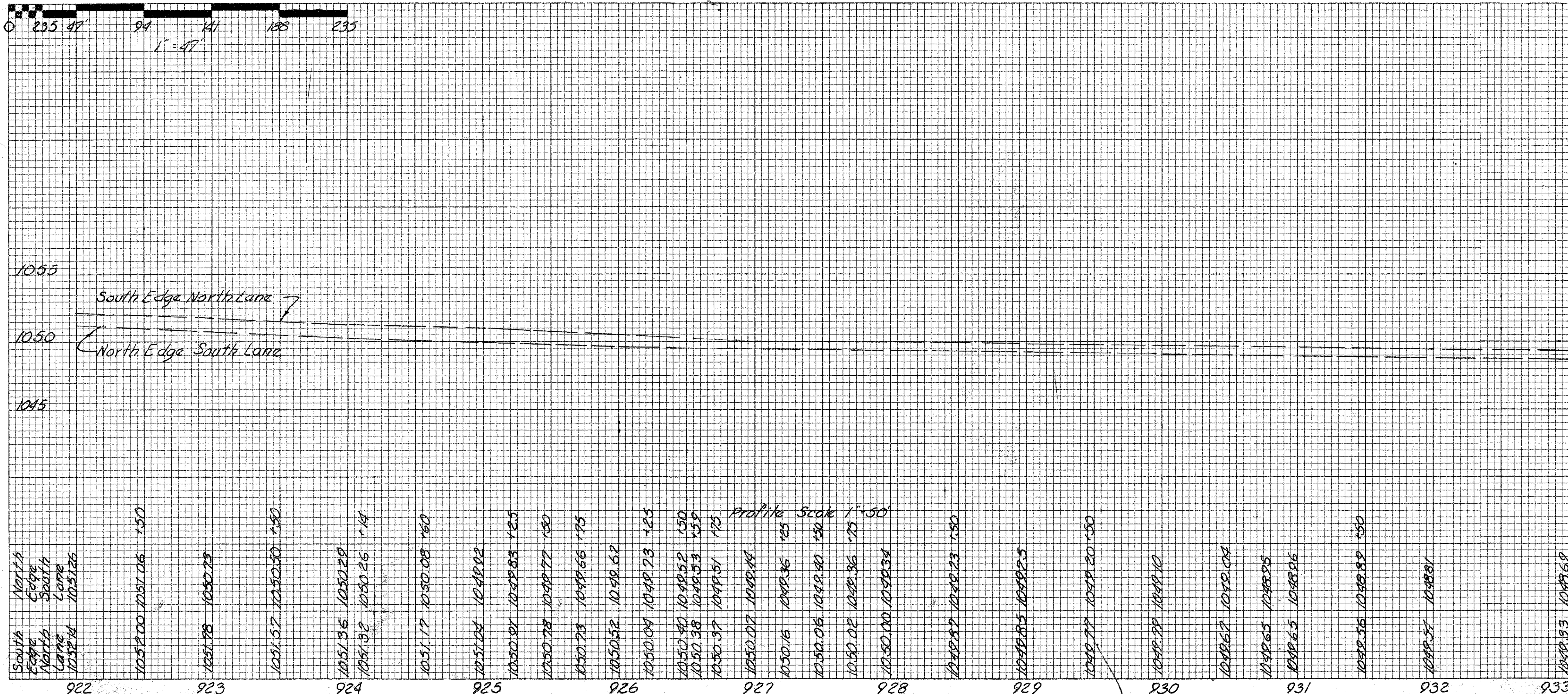
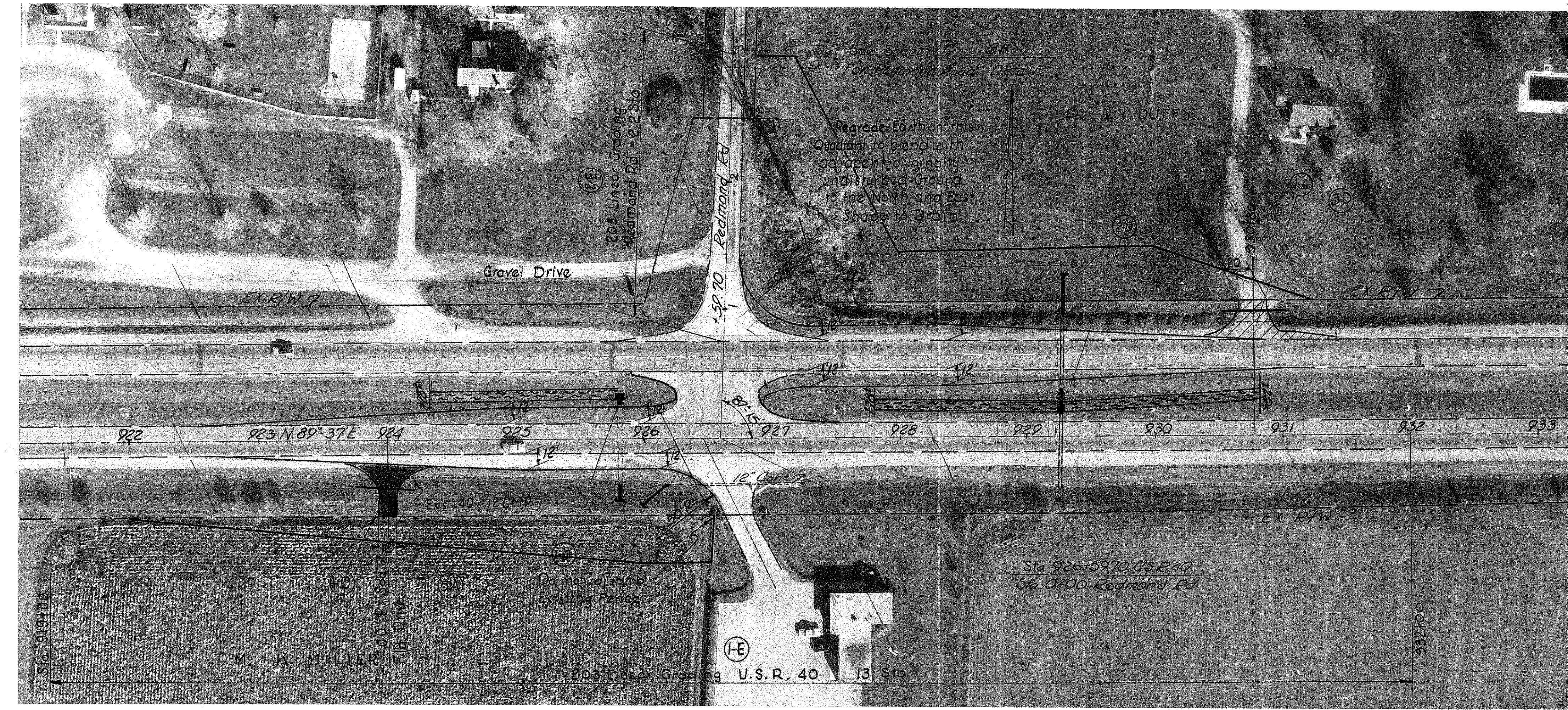


REF NO.	STATION TO STATION	SIDE	ESTIMATED QUANTITIES
203	Linear Grading		17 13 47 106 51 99 3 73 98 6 339
	Sta.		41 12 170 95 46 55 1 41 86 22 282
1-A	867+50 ~ 874+72.44	Lt.	
2-A	866+10.16 ~ 871+23.96	Lt.	
3-A	874+93	Lt.	
1-D	869+60	Lt.	
1-E	866+00 ~ 875+50	Lt.	
2-E	870+42.20	Lt.	
TOTALS To Summary			

PLAN & PROFILE - STA. 867+00 TO STA. 876+00

BY	DATE	CHK	DATE	REV.	DATE	REV.
JFC	2-9-68	JFC	2-9-68			
JFC	2-23-68	JFC	2-23-68			
JFC	2-23-68	JFC	2-23-68			
JFC	2-23-68	JFC	2-23-68			
JFC	2-23-68	JFC	2-23-68			

BY	DATE	CHK	DATE	REV.	DATE	REV.
JFC	2-9-68	JFC	2-9-68			
JFC	2-23-68	JFC	2-23-68			
JFC	2-23-68	JFC	2-23-68			



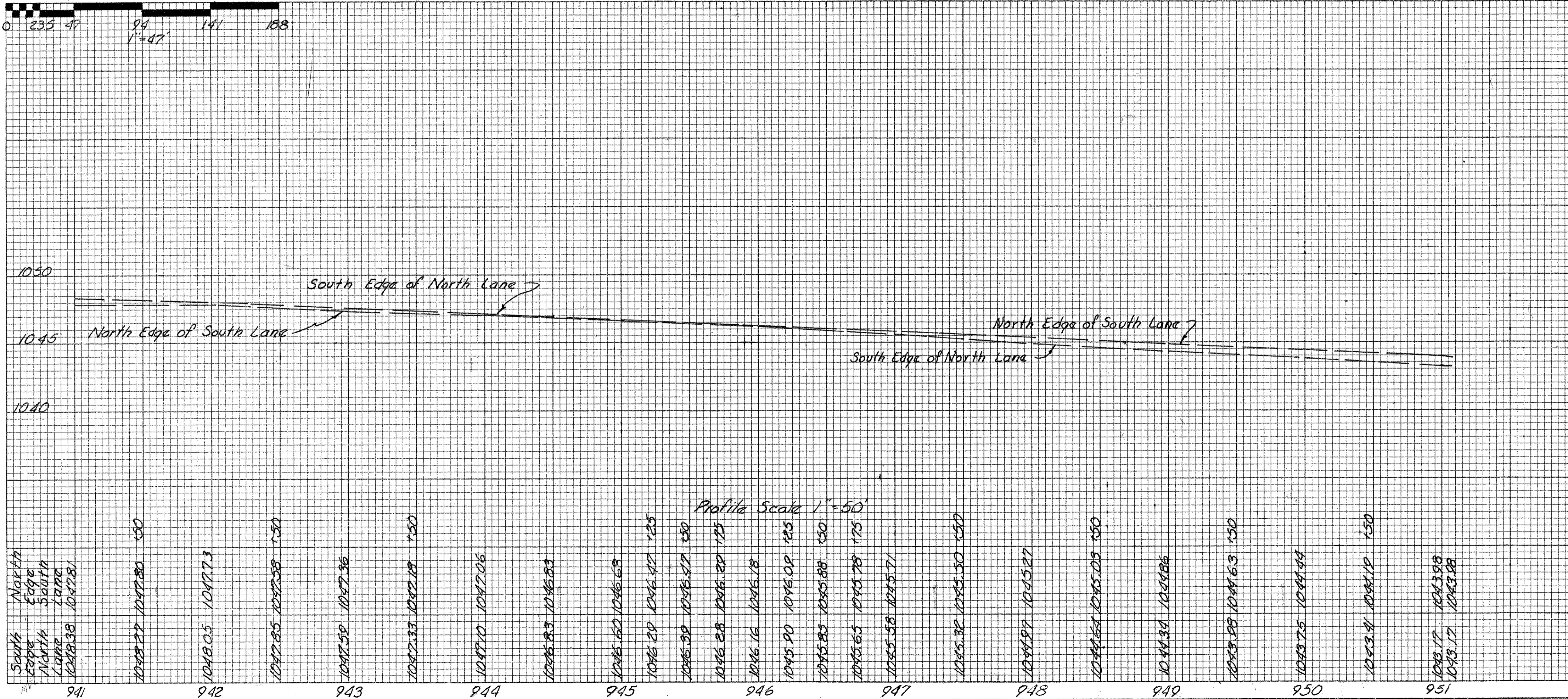
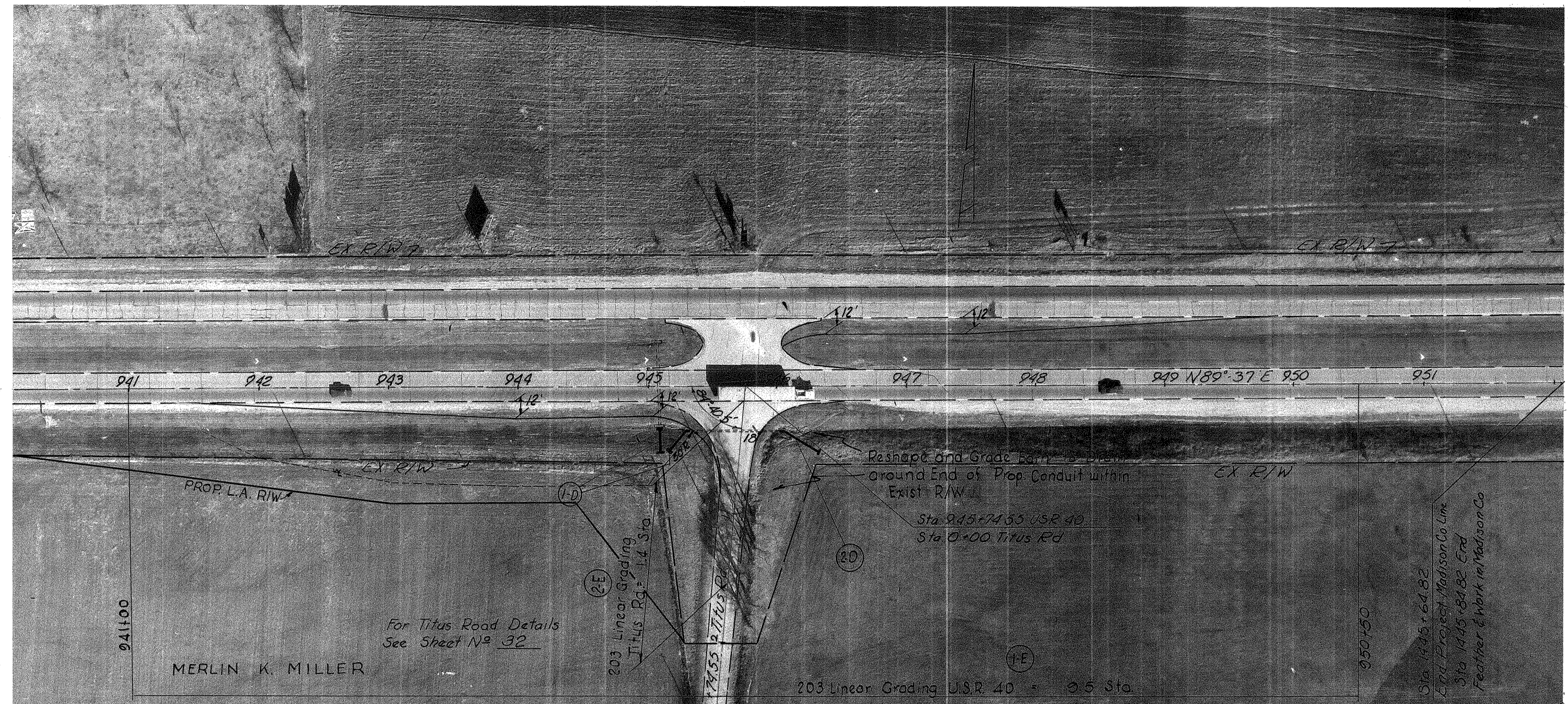
PLAN & PROFILE STA. 922+00 TO STA. 933+00

ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	SPECIAL Excursion	203 Linear Grading	202 Pipe Under	603 12" Under Conduit	408 Bituminous Prime Coat	603 30" Under Conduit	604 Catch Basin	603 Catch Basin	602 Catch Basin	603 Catch Basin	607 Jute Matting	609 Type A	SEE SHEET NO.												
1-A	926+00 ~ 930+83	Lt													31												
2-A	926+83 ~ 930+83	Rt													31												
3-A	926+83 ~ 927+42.42	Lt													31												
4-A	930+80	Rt													36												
5-A	930+80	Lt													37												
1-D	924+23 ± ~ 925+180	Lt	8																								
2-D	927+78 ± ~ 930+82 ±	Lt	6																								
3-D	930+80	Lt																									
4-D	924+00	Rt																									
1-E	919+00 ~ 932+00	Lt		13																							
2-E	920+50.70	Lt		2.2																							
TOTALS To Summary			16	15	7.8	9.4	43	44	1	44	1	8.2	48	237	379	184	309	9	263	265	30	1134	0.8	16	1	375	22

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EAC	2-12-68	JFC	2-13-68				
TES	2-12-68	ES	4-26-68				
TES	2-26-68	LES	4-26-68				
LES	4-26-68	LES	4-26-68				
LES	4-26-68	LES	4-26-68				
LES	4-26-68	LES	4-26-68				



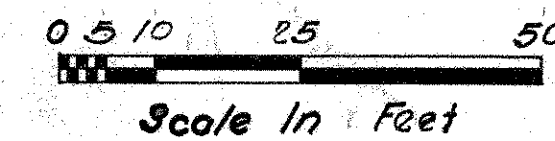
REF. NO.	STATION TO STATION	SIDE	ESTIMATED QUANTITIES	SEE SHEET NO.
1-A	0+51.00 To 0+51.82.05	Lf	203 Linear Grading	32
2-A	0+51.82.05 To 0+51.82.21	Rt.	203 Linear Grading	32
1-D	0+45+05	Rt.	203 Linear Grading	37
2-D	0+46+01	Rt.	203 Linear Grading	37
1-E	0+41+00 To 0+50+50	Lf. Rt.	203 Linear Grading	
2-E	0+43+74.05	Rt.	203 Linear Grading	
TOTALS To Summary				

PLAN & PROFILE - STA. 941+00 TO STA. 951+00

PROFILE	DATE	CHK	DATE	REV.	DATE
EAC	2-18-68	JFC	2-18-68		
EAC	2-18-68	JFC	2-18-68		

4TH AVE.

APPROACH LT. STA. 821+76.42

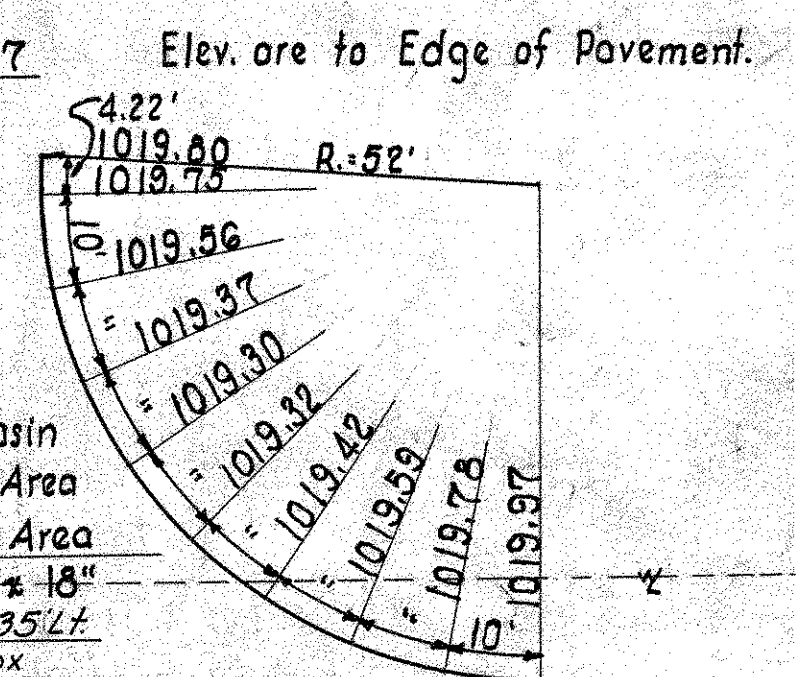
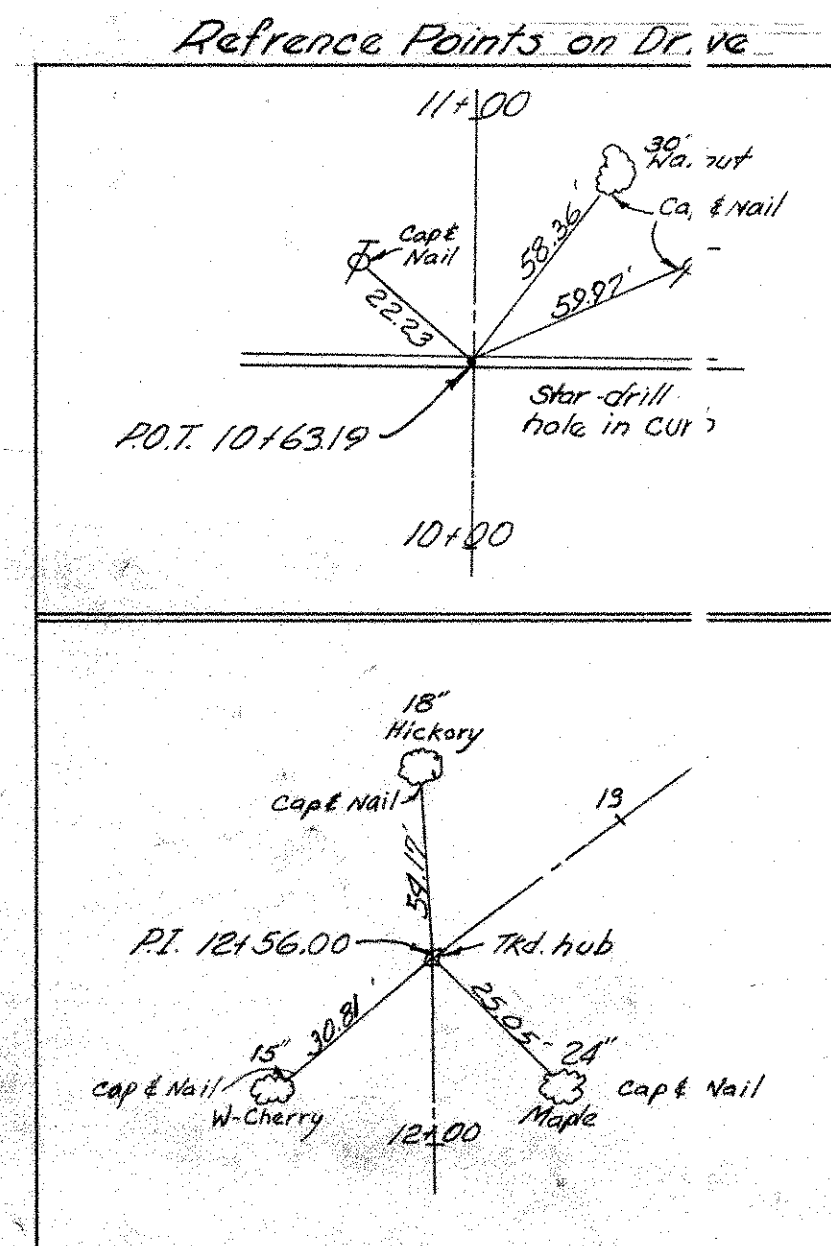
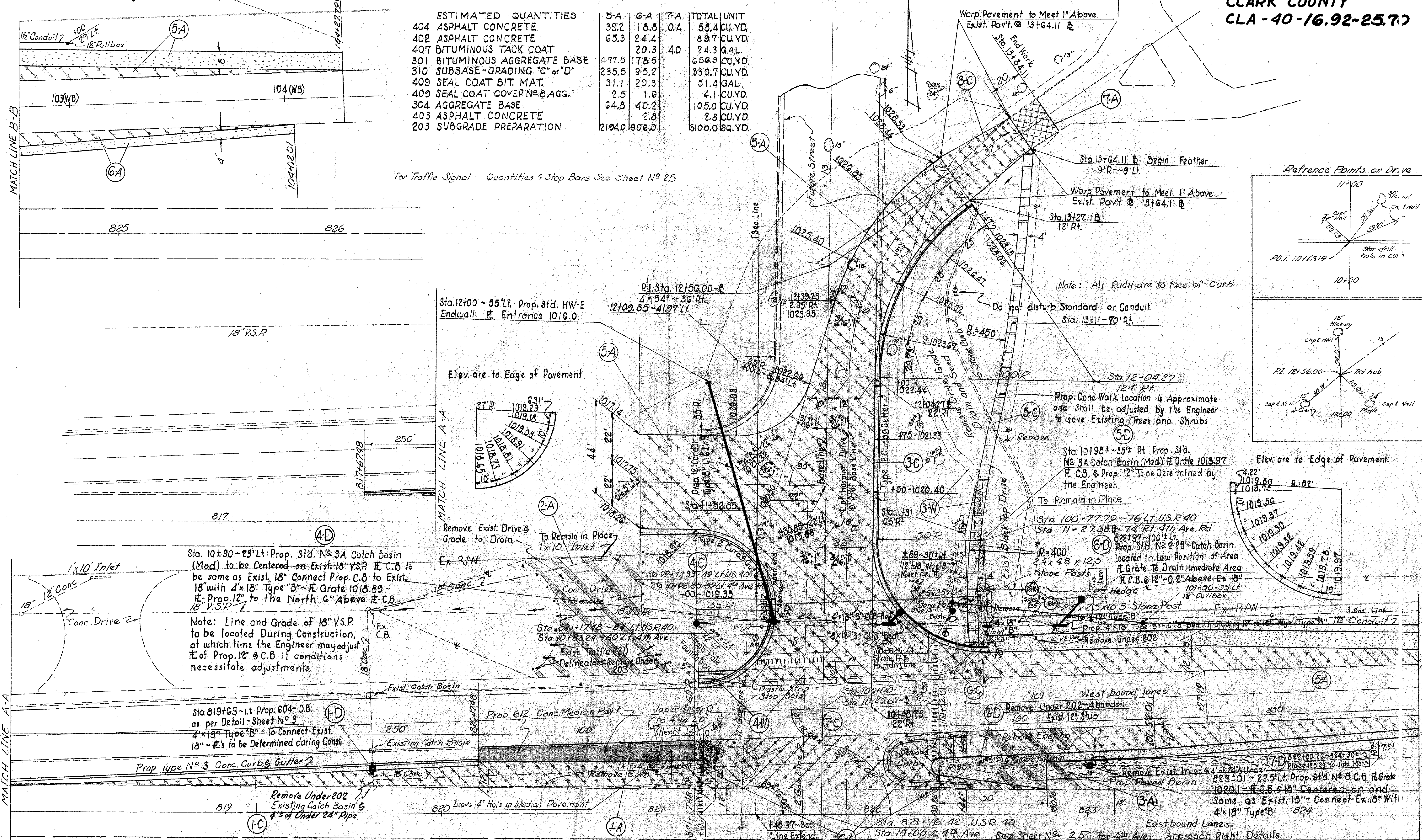


FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		1942

CLARK COUNTY
CLA-40-16.92-25.70

ESTIMATED QUANTITIES		5-A	6-A	7-A	TOTAL	UNIT
404	ASPHALT CONCRETE	39.2	18.8	0.4	58.4	CU. YD.
402	ASPHALT CONCRETE	65.3	24.4		89.7	CU. YD.
407	BITUMINOUS TACK COAT		20.3	4.0	24.3	GAL.
301	BITUMINOUS AGGREGATE BASE	477.8	178.5		656.3	CU. YD.
310	SUBBASE-GRADING "C" or "D"	235.5	95.2		330.7	CU. YD.
409	SEAL COAT BIT. MAT.	31.1	20.3		51.4	GAL.
400	SEAL COAT COVER NO. 8 AGG.		2.5	1.6	4.1	CU. YD.
304	AGGREGATE BASE	64.8	40.2		105.0	CU. YD.
403	ASPHALT CONCRETE				2.8	CU. YD.
203	SUBGRADE PREPARATION	2194.0	1906.0		3100.0	BSQ. YD.

For Traffic Signal Quantities & Stop Bars See Sheet No 25



DATE	3/19/68
BY	T.E.S.
CHECKED	J.A.
DETAILS CHECKED	
DETAILS REVISED	

SEEDING 70 60 50 40 30 20 10 0 10 20 30 40 50 60

END WIDTH SQ. YDS.

This Sheet Is For Information Only

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

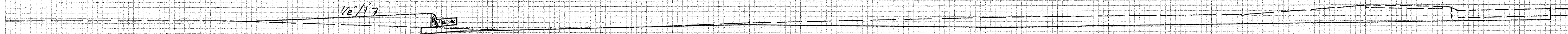
21/42

CLARK COUNTY
CLA-40-16.92-25.71

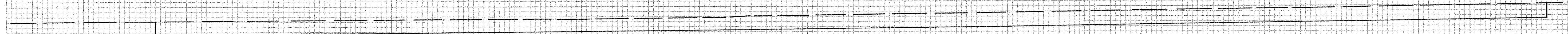
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END AREA		VOLUME	
CUT	FILL	C	F

EXISTING	DATE	CHK	REV.	DATE	REV.	DATE
CA	3/12/68	LES		4-1-68		
TES	3/17/68	LES		4-1-68		
TES	3/17/68	LES		4-1-68		



10+75
1018.49



10+62.9 Edge Pavt on Skew
1019.05

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

X-SECTIONS STA. 10+62.9 TO STA. 10+75 PROP HOSPITAL DRIVE

SEEDING 70 60 50 40 30 20 10 E 10 20 30 40 50 60

END WIDTH SQ. YDS.

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

22
42

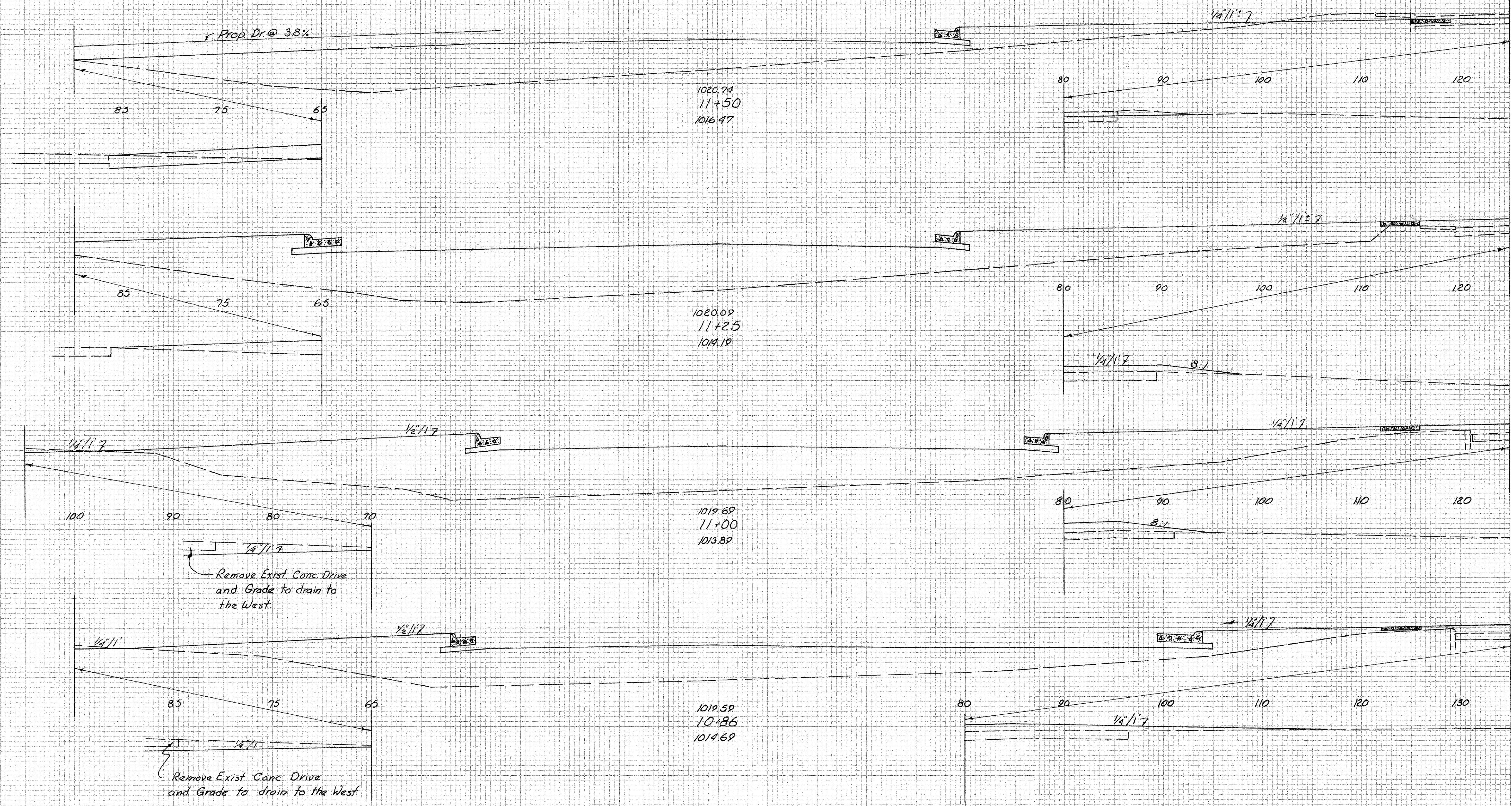
CLARK COUNTY
CLA - 40-16.92-25.70

This Sheet Is for Information Only

70

END AREA		VOLUME	
CUT	FILL	CU	FILL

BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE	REV.	DATE
CAC	3/22/08	LES	4-1-08						
TES	3/18/08	LES	4-1-08						
TES	3/18/08	LES	4-1-08						
SEEDING									



X-SECTIONS STA. 10+86 TO STA. 11+50 PROP HOSPITAL DRIVE

SEEDING 70 60 50 40 30 20 10 0 10 20 30 40 50 60

END WIDTH SQ. YDS.

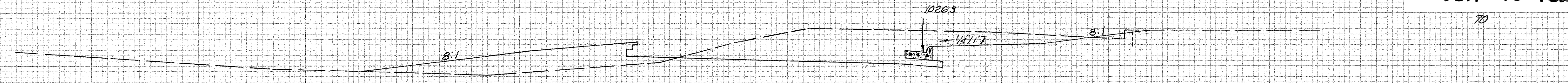
This Sheet Is for Information Only

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

23
42

CLARK COUNTY
CLA-40-16.92-25.70

END AREA		VOLUME	
CUT	FILL	C	FILL

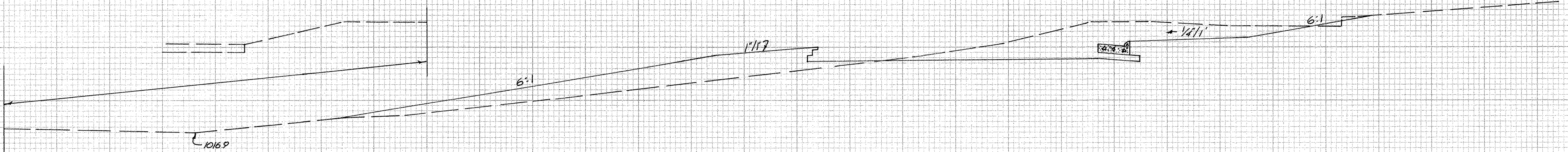


13+00
1026.62

BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
MC	3/2/68	LES	4-2-68				
TES	1/10/68	LES	4-2-68				
TES	1/10/68	LES	4-2-68				

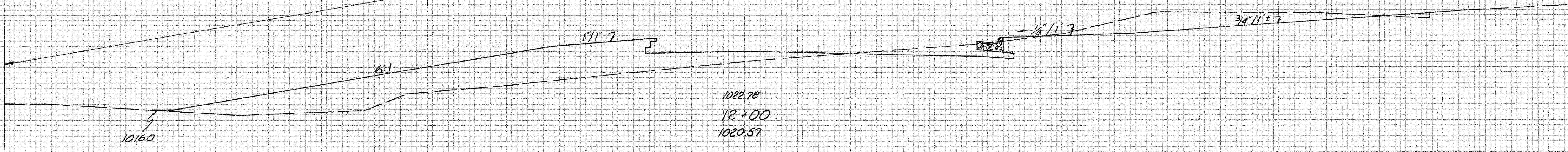
EXISTING
TEMPLATE
DITCHES
AREAS
VOLUMES
SEEDING

100 90 80 70



12+50
1022.22

100 90 80 70



1022.78
12+00
1020.57

1016.0

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

X-SECTIONS STA. 12+00 TO STA. 13+00 PROP. HOSPITAL DRIVE

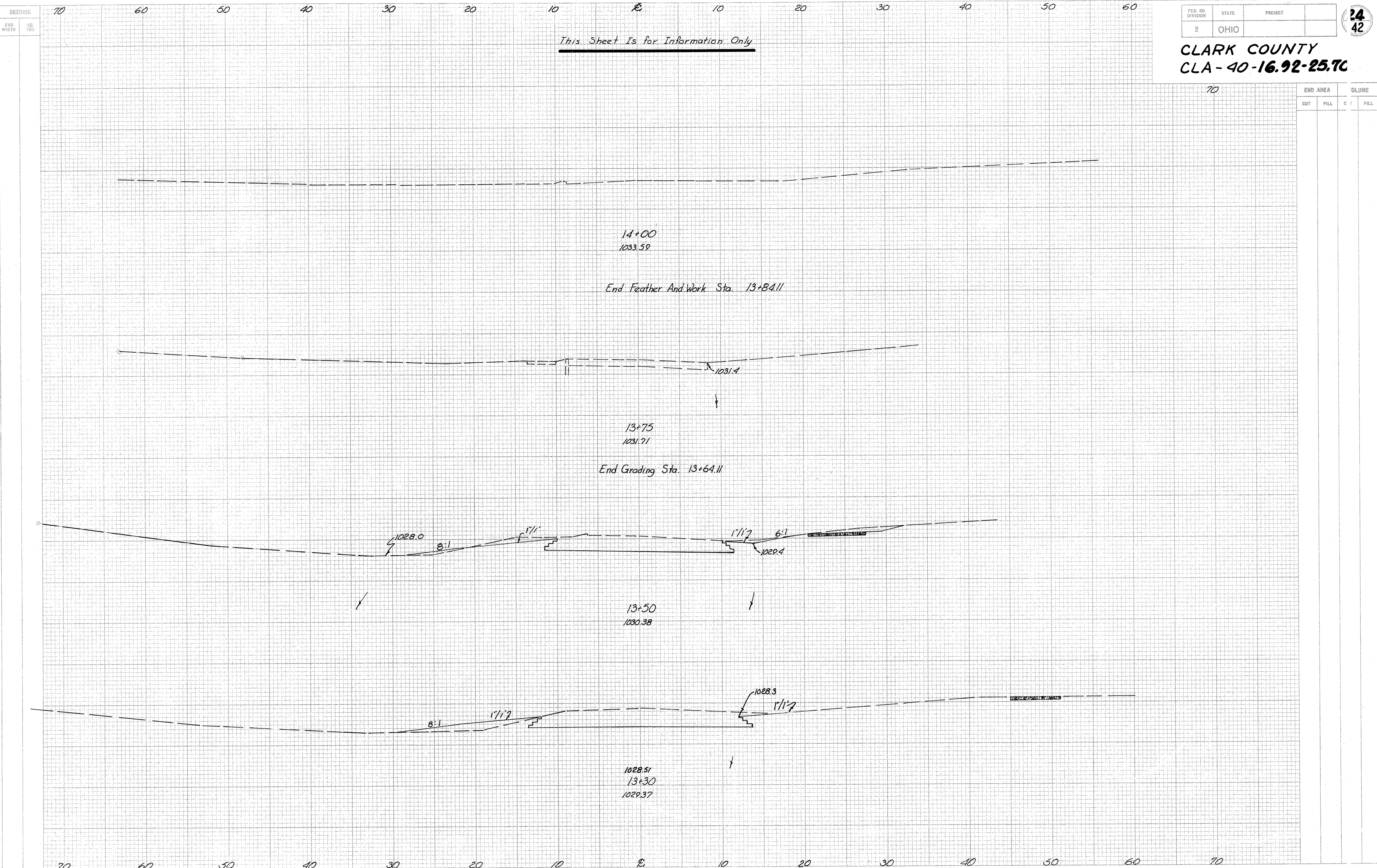
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

24
42

CLARK COUNTY
CLA-40-16.92-25.70

This Sheet Is for Information Only

EXISTING	BY	DATE	CHK	REV.	DATE	REV.	DATE
TEMPLATE	TES	3/18/68	LES	4-2-68			
DITCHES	TES	3/18/68	LES	4-2-68			
AREAS							
VOLUMES							
SEEDING							



END AREA		GLUE	
CUT	FILL	C	F

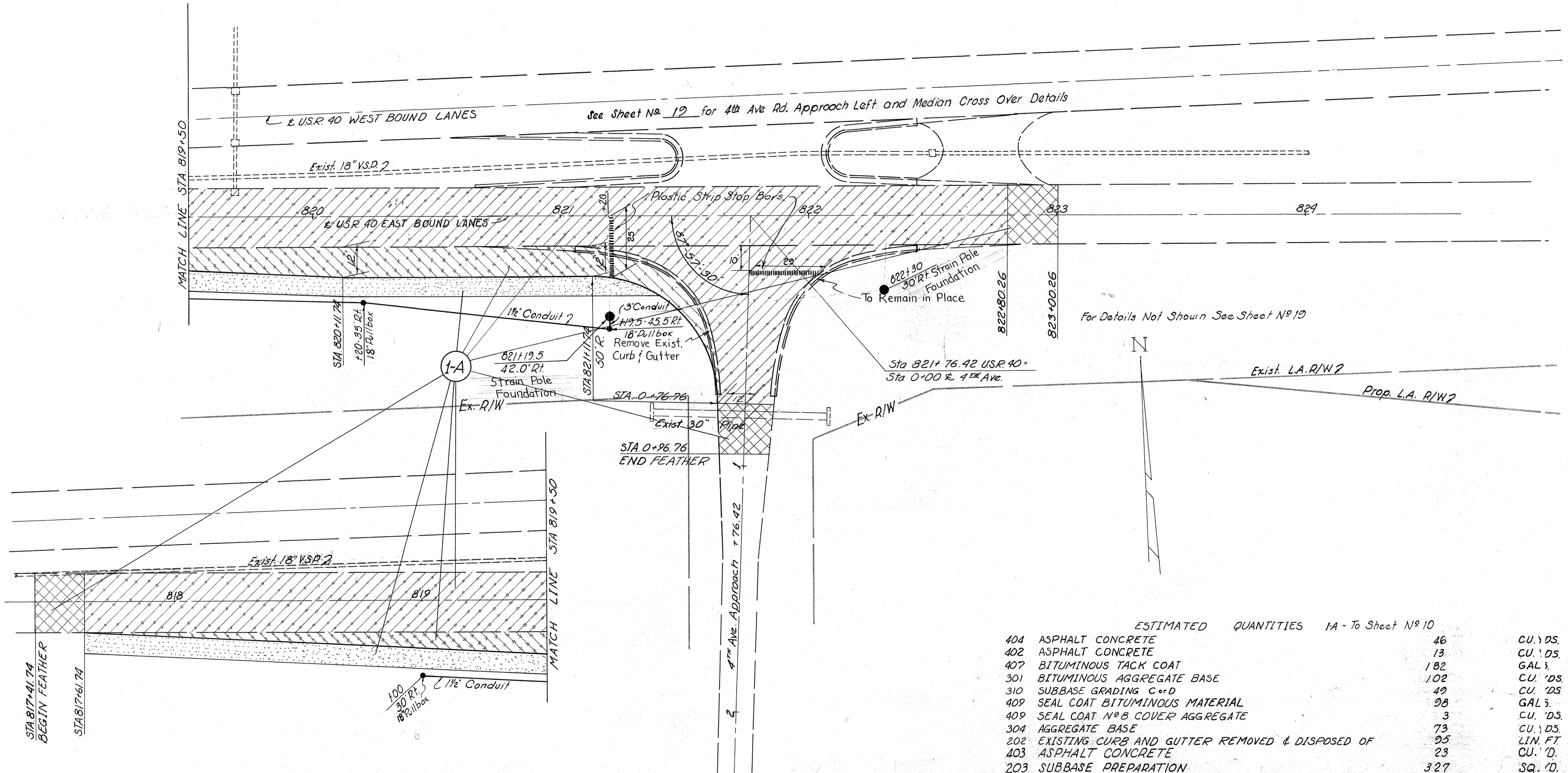
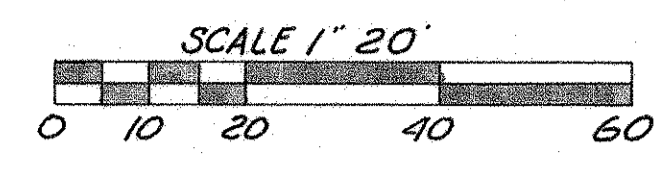
X-SECTIONS STA. 13+30 TO STA. 14+00 PROP. HOSPITAL DRIVE

4TH AVE. RD. APPROACH STA. 821+76.42

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

25
42

CLARK COUNTY
CLA-40-16.92-25.7C



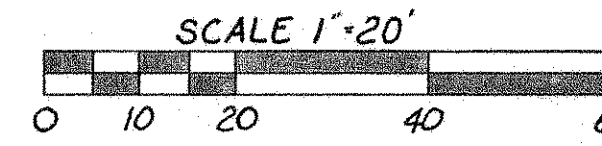
DATE	BY
2-4-68	J-A
3-13-68	T.E.S.
DETAILS CHECKED	
DETAILS REVISED	

ESTIMATED QUANTITIES			1A - To Sheet No 10
404	ASPHALT CONCRETE	46	CU. YDS.
402	ASPHALT CONCRETE	13	CU. YDS.
407	BITUMINOUS TACK COAT	182	GAL.
301	BITUMINOUS AGGREGATE BASE	102	CU. YDS.
310	SUBBASE GRADING C&D	49	CU. YDS.
409	SEAL COAT BITUMINOUS MATERIAL	28	GAL.
409	SEAL COAT NO 8 COVER AGGREGATE	3	CU. YDS.
304	AGGREGATE BASE	73	CU. YDS.
202	EXISTING CURB AND GUTTER REMOVED & DISPOSED OF	25	LIN. FT.
403	ASPHALT CONCRETE	23	CU. YDS.
203	SUBBASE PREPARATION	327	SQ. YD.

SUMMARY OF TRAFFIC SIGNAL - Sheet No 38			
G25 - 3" Conduit, As per 713.04, Type II or III	7 Lin. Ft.	G25 - Traffic Signal Pole Foundations (Strain) as per plan	4 Ea.
G25 - 1 1/2" Conduit, As per 713.04, Type II or III	458 Lin. Ft.	G21 - Placing Plastic Strip Stop Bars	168 Lin. Ft.
G25 - Trenching, As per plan	465 Lin. Ft.		
G25 - 3" Conduit - 18" Round Pullbox, As per 713.07	6 Ea.		

Note: The location of Pole Bases and Conduit may be adjusted during construction. The location as shown or as adjusted shall be approved by the Engineer before these items are constructed.

OGDEN RD. APPROACH



FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

26
42

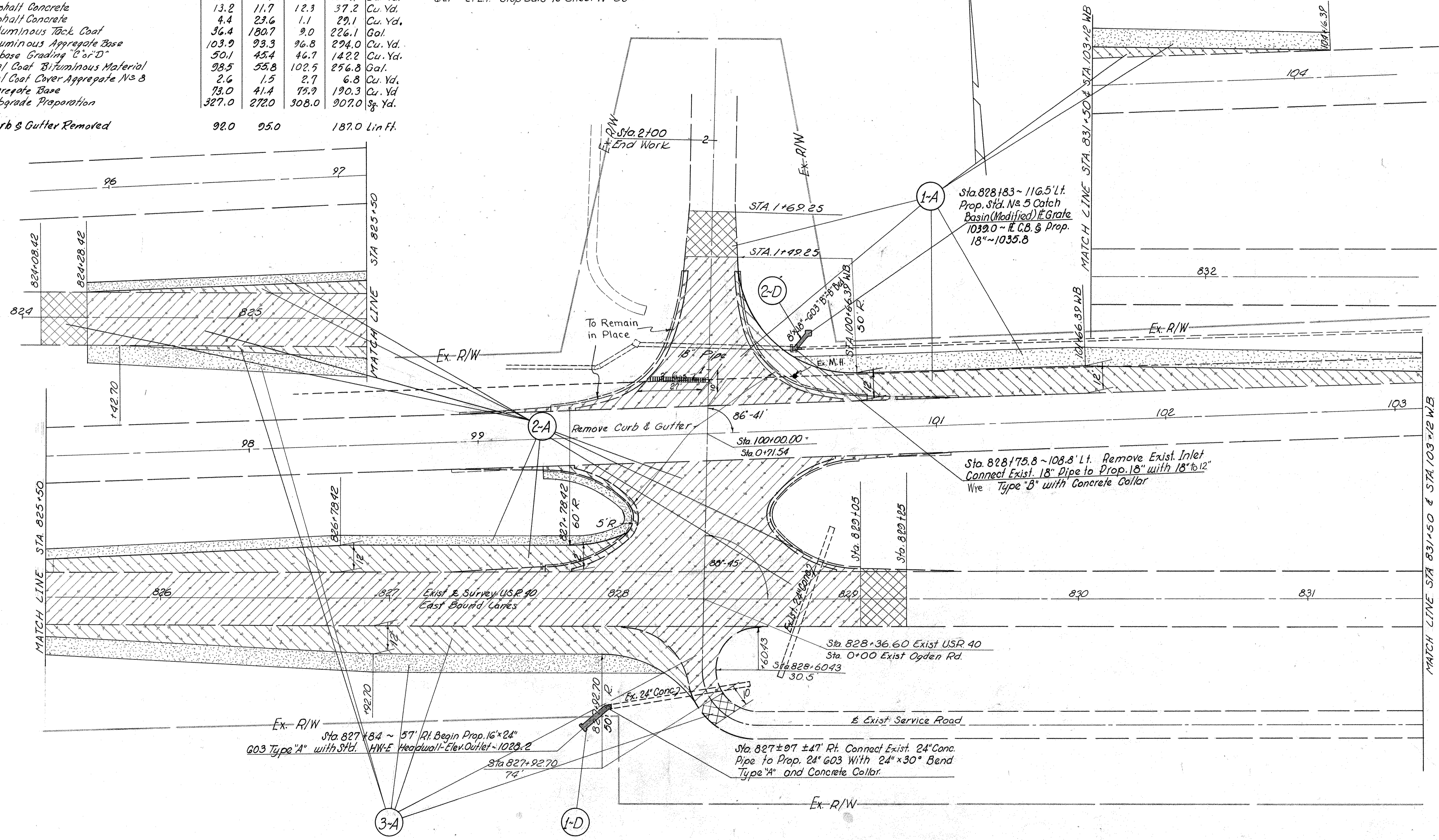
CLARK COUNTY
CLA - 40 - 16.92 - 25.70

ESTIMATED QUANTITIES

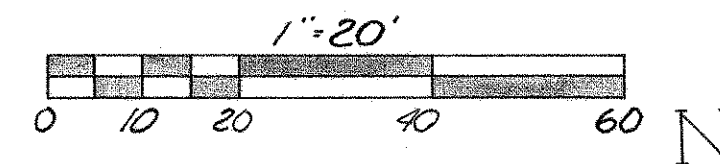
	1A	2A	3A	Total	Unit
404 Asphalt Concrete	15.1	42.5	9.1	66.7	Cu. Yd.
402 Asphalt Concrete	13.2	11.7	12.3	37.2	Cu. Yd.
403 Asphalt Concrete	4.4	23.6	1.1	29.1	Cu. Yd.
407 Bituminous Tack Coat	36.4	180.7	9.0	226.1	Gal.
301 Bituminous Aggregate Base	103.9	93.3	96.8	294.0	Cu. Yd.
310 Subbase Grading "C" or "D"	50.1	45.4	46.7	142.2	Cu. Yd.
400 Seal Coat Bituminous Material	98.5	55.8	102.5	256.8	Gal.
409 Seal Coat Cover Aggregate No 8	2.6	1.5	2.7	6.8	Cu. Yd.
304 Aggregate Base	73.0	41.4	75.9	190.3	Cu. Yd.
203 Subgrade Preparation	327.0	272.0	308.0	907.0	Sq. Yd.
202 Curb & Gutter Removed	92.0	95.0		187.0	Lin Ft.

G21- 27 L.F. Stop Bars To Sheet No 38

BY	DATE
L.A.	2-5-68
T.E.S.	3-13-68
DETAILS CHECKED	
DETAILS REVISED	



TUTTLE RD.

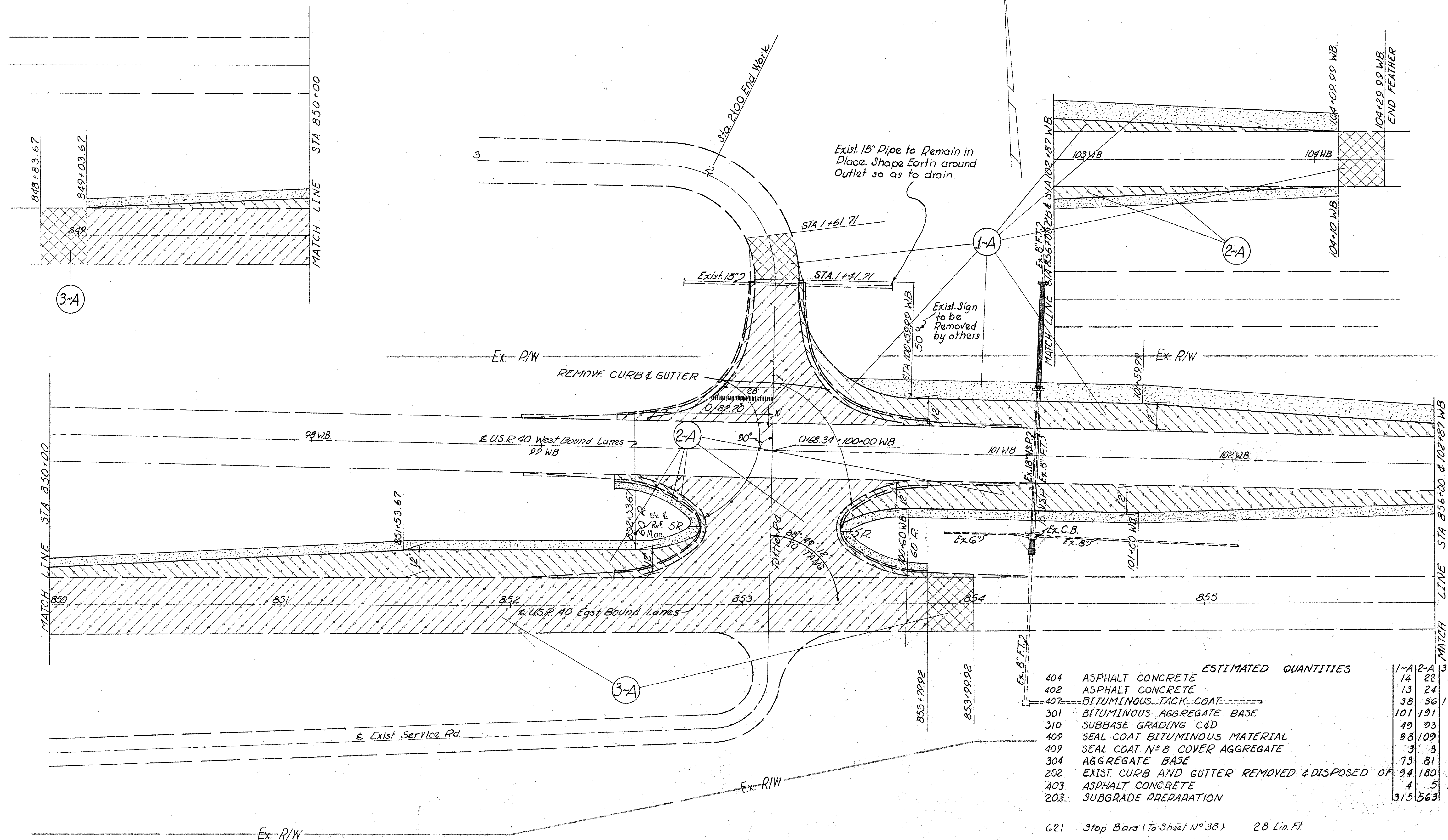


FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

27
42

CLARK COUNTY
CLA-40-16.92-25.70

BY	DATE
JES	2-20-68
LFS	3-7-68
DETAILS CHECKED	
DETAILS REVISED	



ESTIMATED QUANTITIES			1-A	2-A	3-A	TOTAL
404	ASPHALT CONCRETE		14	22	27	63 C.I. YDS.
402	ASPHALT CONCRETE		13	24		37 C.I. YDS.
407	BITUMINOUS-TACK-COAT		38	36	127	201 GALS.
301	BITUMINOUS AGGREGATE BASE		101	191		292 C.I. YDS.
310	SUBBASE GRADING C&D		49	93		142 C.I. YDS.
409	SEAL COAT BITUMINOUS MATERIAL		98	109		207 GALS.
409	SEAL COAT N° 8 COVER AGGREGATE		3	3		6 C.I. YDS.
304	AGGREGATE BASE		73	81		154 C.I. YDS.
202	EXIST. CURB AND GUTTER REMOVED & DISPOSED OF		94	180		274 L.N. FT.
403	ASPHALT CONCRETE		4	5	18	27 C.I. YDS.
203	SUBGRADE PREPARATION		315	563		878 S.F. YDS.

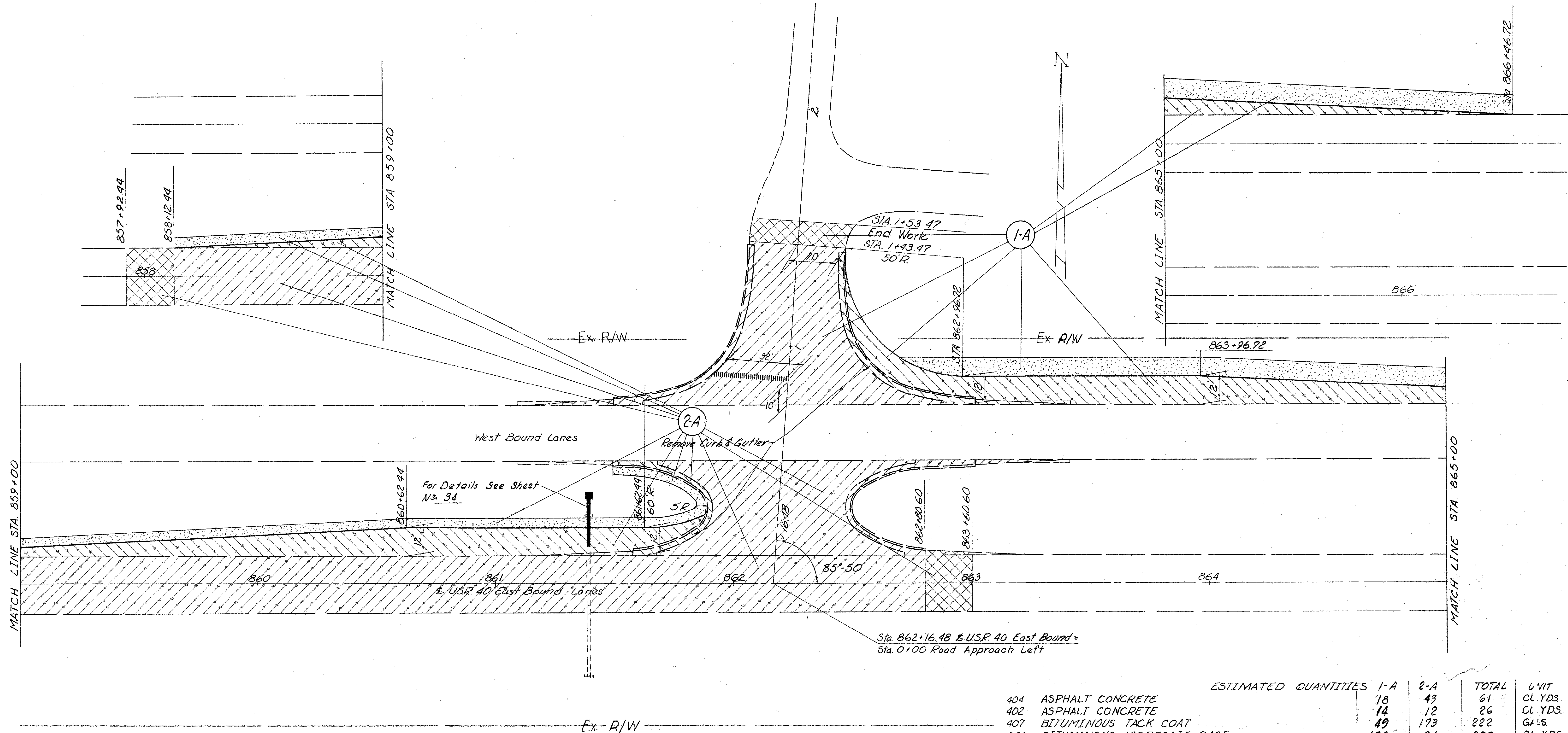
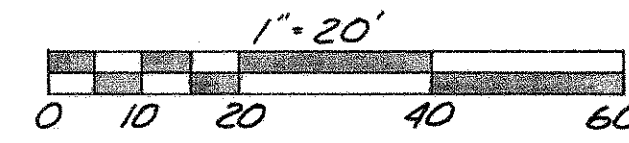
G21 Stop Bars (To Sheet N° 38) 28 Lin. Ft.

LARCHMONT RD. APPROACH LT. STA. 862+16.48

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

28
42

CLARK COUNTY
CLA-40-16.29-25.70

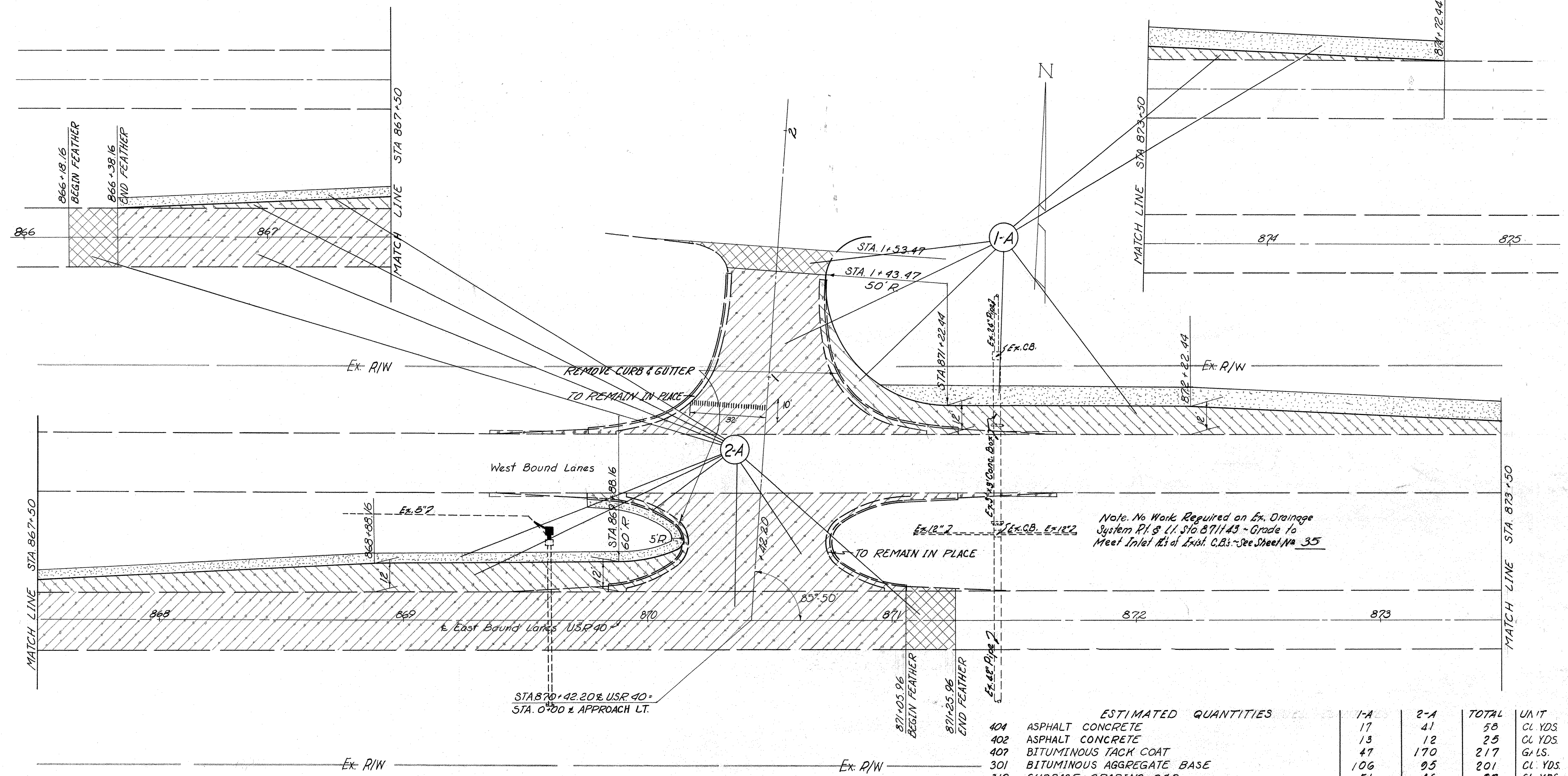
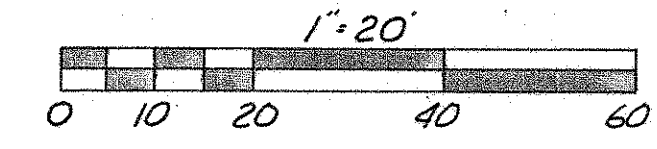


DATE	3-18-68
BY	T.E.S.
DATE	3-20-68
BY	J.A.
DETAILS CHECKED	
DETAILS REVISED	

		ESTIMATED QUANTITIES		TOTAL	UNIT
		1-A	2-A		
404	ASPHALT CONCRETE	18	43	61	CL. YDS.
402	ASPHALT CONCRETE	14	12	26	CL. YDS.
407	BITUMINOUS TACK COAT	49	173	222	GA. S.
301	BITUMINOUS AGGREGATE BASE	106	94	200	CL. YDS.
310	SUBBASE GRADING C&D	50	46	96	CL. YDS.
409	SEAL COAT BITUMINOUS MATERIAL	98	55	153	GA. S.
409	SEAL COAT N°8 COVER AGGREGATE	3	1	4	CL. YDS.
304	AGGREGATE BASE	72	41	113	CL. YDS.
202	EXIST. CURB AND GUTTER REMOVED & DISPOSED OF	98	86	184	L.N. FT.
403	ASPHALT CONCRETE	6	23	29	CL. YDS.
203	SUBGRADE PREPARATION	334	281	615	Sq. YDS.

G21 Stop Bars (To Sheet N° 38) 32 Lin. Ft.

HICKORY DRIVE APPROACH LT. STA. 870+42.20

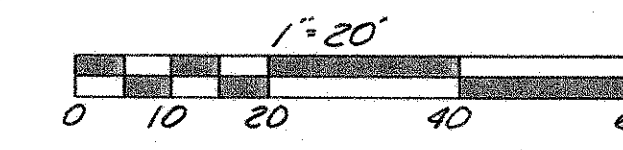


DATE	2-27-68
BY	J.A.
REVISION	
DETAILS CHECKED	J.A.
DETAILS REVISED	3-4-68

ESTIMATED QUANTITIES		1-A	2-A	TOTAL	UNIT
404	ASPHALT CONCRETE	17	41	58	CU. YDS.
402	ASPHALT CONCRETE	13	12	25	CU. YDS.
407	BITUMINOUS TACK COAT	47	170	217	GALS.
301	BITUMINOUS AGGREGATE BASE	106	95	201	CU. YDS.
310	SUBBASE GRADING C&D	51	46	97	CU. YDS.
409	SEAL COAT BITUMINOUS MATERIAL	99	55	154	GALS.
409	SEAL COAT N ^o 8 COVER AGGREGATE	3	1	4	CU. YDS.
304	AGGREGATE BASE	73	41	114	CU. YDS.
202	EXIST. CURB AND GUTTER REMOVED & DISPOSED OF	98	86	184	LI. FT.
403	ASPHALT CONCRETE	6	22	28	CU. YDS.
203	SUBGRADE PREPARATION	339	282	621	SQ. YDS.

621 Stop Bars (To Sheet No 38) 32 Lin. Ft.

BIRD RD. APPROACH LT. & RT.



FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

30
42

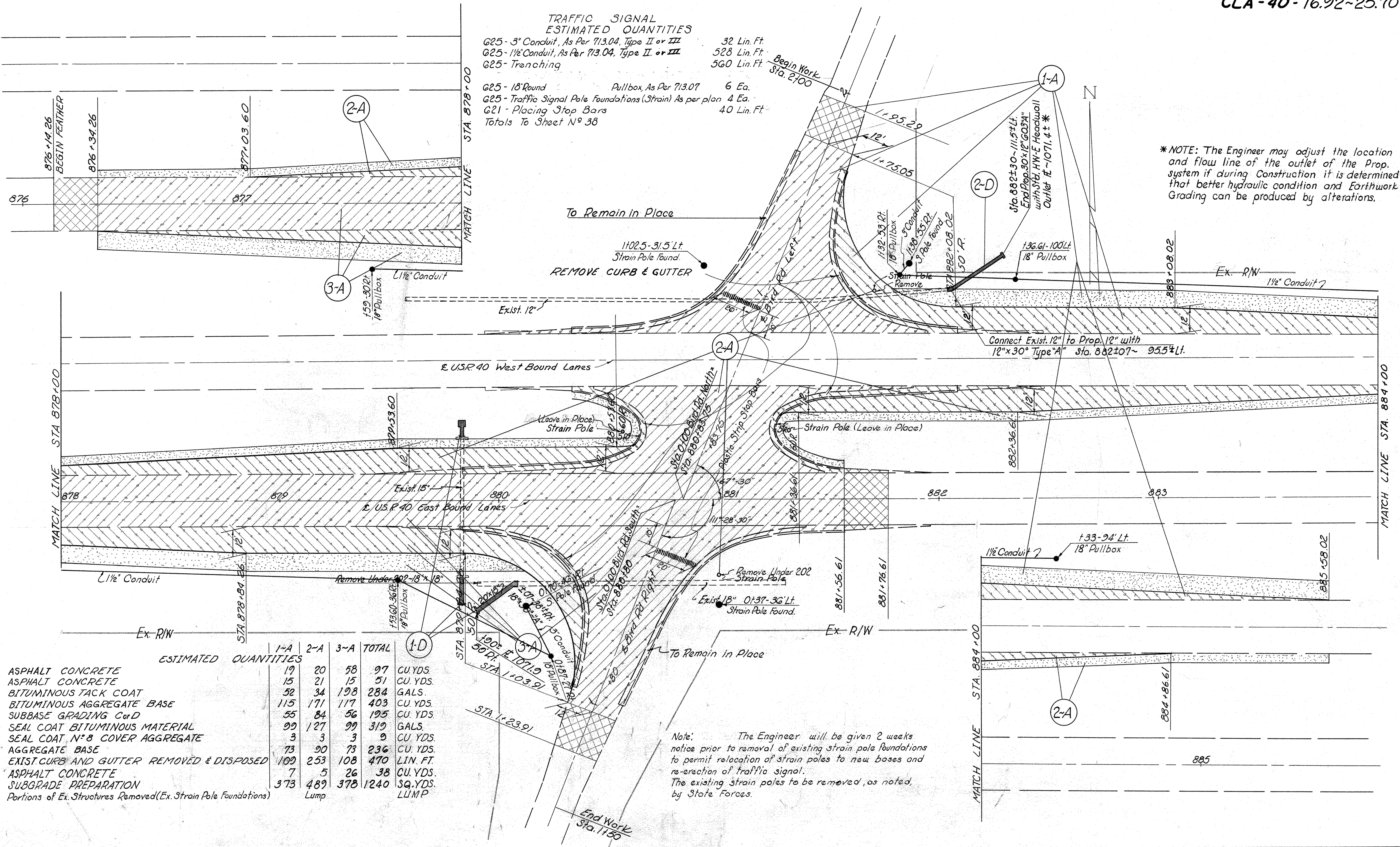
CLARK COUNTY
CLA-40-16.92~25.70

TRAFFIC SIGNAL
ESTIMATED QUANTITIES

G25 - 3" Conduit, As Per 713.04, Type II or III 32 Lin. Ft.
G25 - 1 1/2" Conduit, As Per 713.04, Type II or III 528 Lin. Ft.
G25 - Trenching 560 Lin. Ft.

G25 - 18" Round Pullbox, As Per 713.07 6 Ea.
G25 - Traffic Signal Pole Foundations (Strain) As per plan 4 Ea.
G21 - Placing Stop Bars 40 Lin. Ft.

Totals To Sheet N^o 38

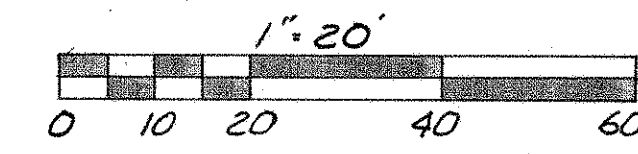


*NOTE: The Engineer may adjust the location and flow line of the outlet of the Prop. system if during Construction it is determined that better hydraulic condition and Earthwork Grading can be produced by alterations.

DATE	2-27-68
BY	J.A.
DETAILS CHECKED	J.A.
DETAILS REVISED	

	1-A	2-A	3-A	TOTAL	
404 ASPHALT CONCRETE	19	20	58	97	CU.YDS.
402 ASPHALT CONCRETE	15	21	15	51	CU.YDS.
407 BITUMINOUS TACK COAT	52	34	198	284	GALS.
301 BITUMINOUS AGGREGATE BASE	115	171	117	403	CU.YDS.
310 SUBBASE GRADING Cor'D	55	84	56	195	CU.YDS.
409 SEAL COAT BITUMINOUS MATERIAL	99	127	99	312	GALS.
409 SEAL COAT N ^o 8 COVER AGGREGATE	3	3	3	9	CU.YDS.
304 AGGREGATE BASE	73	90	73	236	CU.YDS.
202 EXIST. CURB AND GUTTER REMOVED & DISPOSED	109	253	108	470	LIN. FT.
403 ASPHALT CONCRETE	7	5	26	38	CU.YDS.
203 SUBGRADE PREPARATION	373	489	378	1240	SQ.YDS.
202 Portions of Ex. Structures Removed (Ex. Strain Pole Foundations)		Lump			LUMP

REDMOND RD. APPROACH



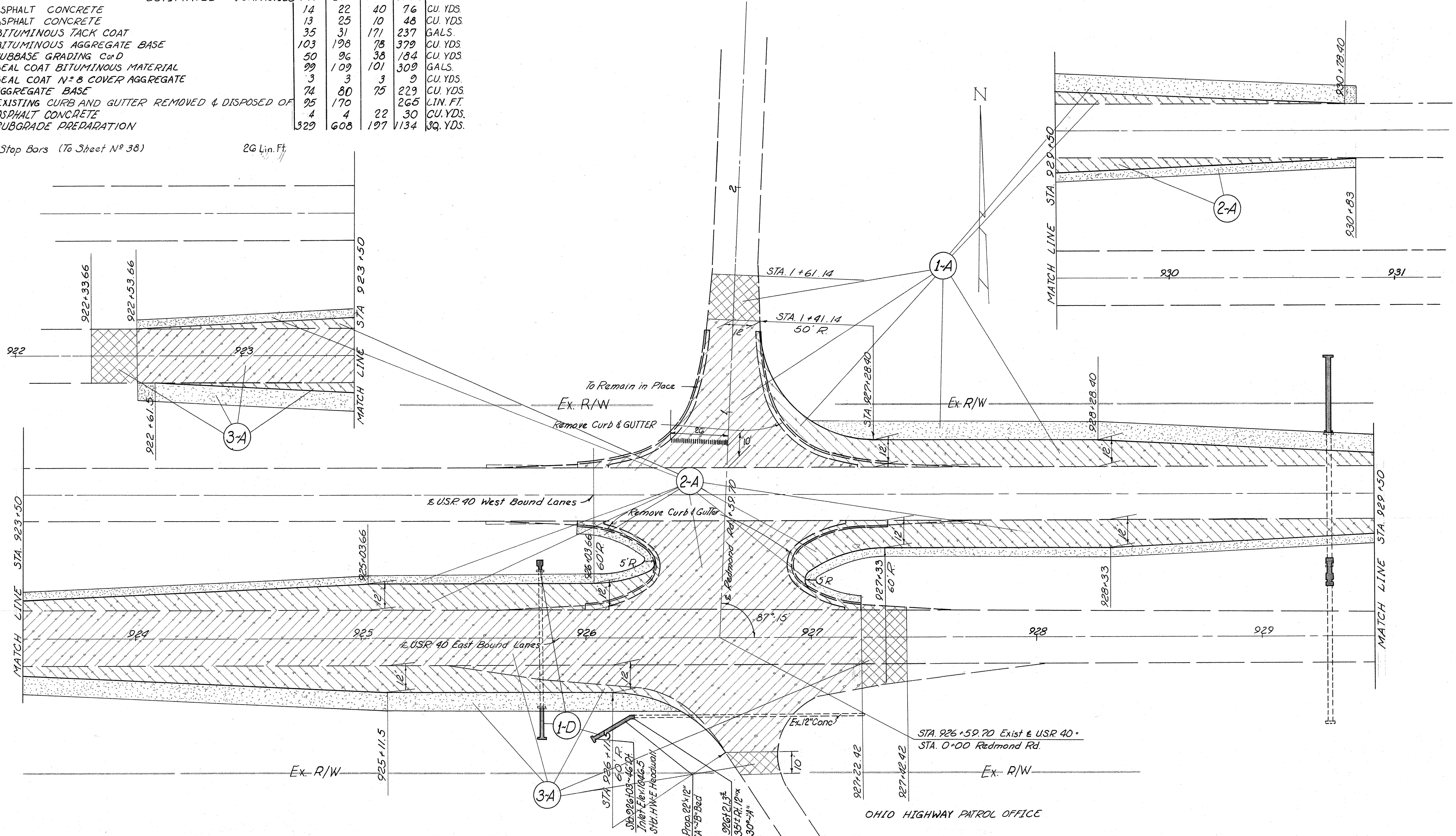
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

31
42

CLARK COUNTY
CLA-40-16.92-25.70

	ESTIMATED QUANTITIES	1-A	2-A	3-A	TOTAL	
404 ASPHALT CONCRETE	14	22	40	76	CU. YDS.	
402 ASPHALT CONCRETE	13	25	10	48	CU. YDS.	
407 BITUMINOUS TACK COAT	35	31	171	237	GALS.	
301 BITUMINOUS AGGREGATE BASE	103	198	78	379	CU. YDS.	
310 SUBBASE GRADING Co. D	50	96	38	184	CU. YDS.	
409 SEAL COAT BITUMINOUS MATERIAL	99	109	101	309	GALS.	
409 SEAL COAT N° 8 COVER AGGREGATE	3	3	3	9	CU. YDS.	
304 AGGREGATE BASE	74	80	75	229	CU. YDS.	
202 EXISTING CURB AND GUTTER REMOVED & DISPOSED OF	95	170		265	LN. FT.	
403 ASPHALT CONCRETE	4	4	22	30	CU. YDS.	
203 SUBGRADE PREPARATION	329	608	197	1134	SQ. YDS.	

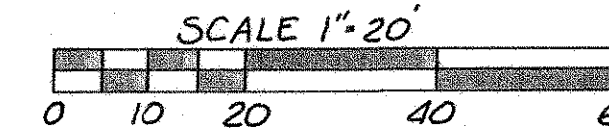
G21 Stop Bars (To Sheet N° 38) 26 Lin. Ft.



DATE	3-4-68
BY	J-A
T.E.S.	J-A
DETAILS CHECKED	
DETAILS REVISED	

OHIO HIGHWAY PATROL OFFICE

TITUS RD. APPROACH



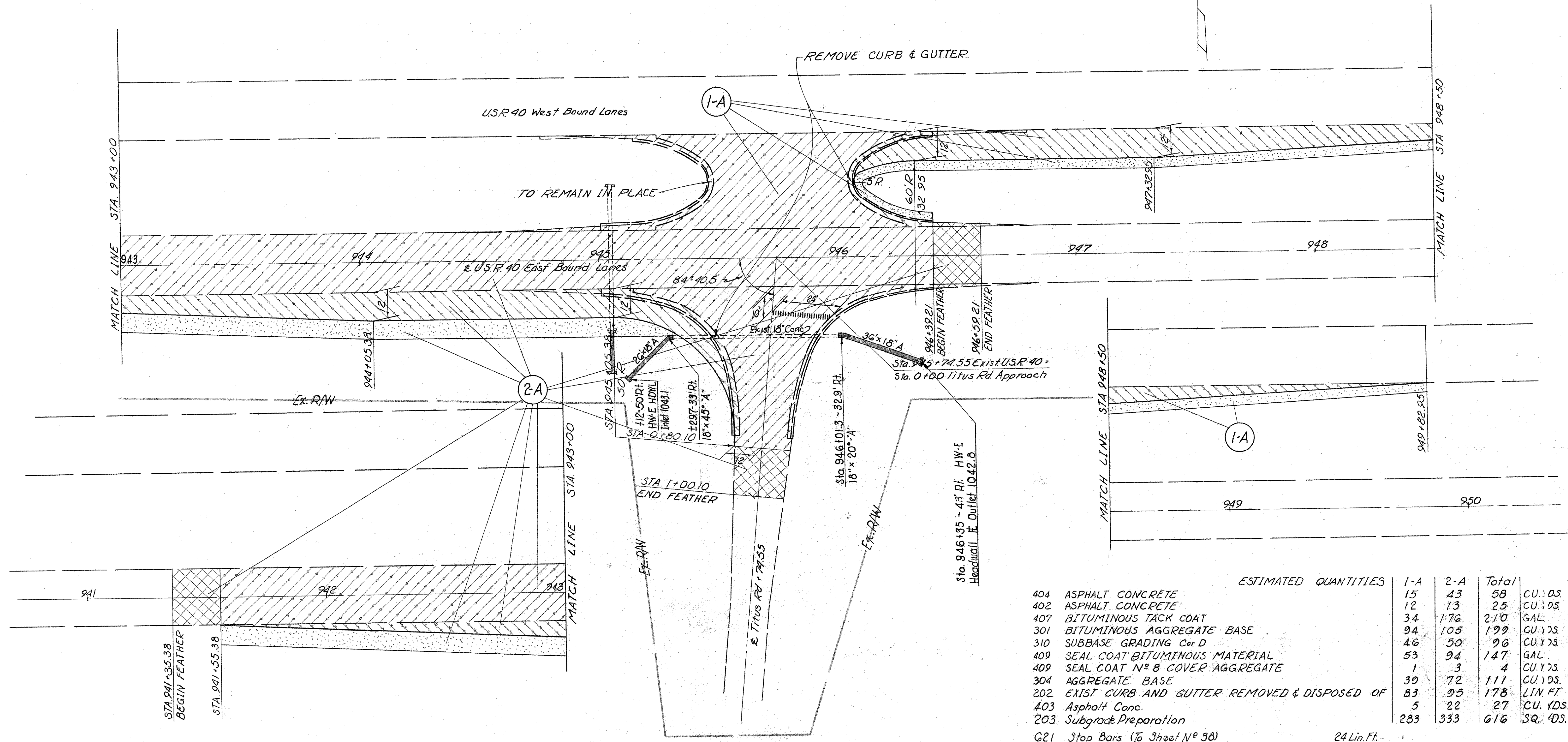
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

32
42

CLARK COUNTY
CLA-40-16.92-25.70

N

DATE	BY
3-4-68	JES
3-11-68	J.A.
DETAILS CHECKED	
DETAILS REVISED	



		ESTIMATED QUANTITIES			
		1-A	2-A	Total	
404	ASPHALT CONCRETE	15	43	58	CU. YDS.
402	ASPHALT CONCRETE	12	13	25	CU. YDS.
407	BITUMINOUS TACK COAT	34	176	210	GAL.
301	BITUMINOUS AGGREGATE BASE	94	105	199	CU. YDS.
310	SUBBASE GRADING Cor D	46	50	96	CU. YDS.
409	SEAL COAT BITUMINOUS MATERIAL	53	94	147	GAL.
409	SEAL COAT N° 8 COVER AGGREGATE	1	3	4	CU. YDS.
304	AGGREGATE BASE	39	72	111	CU. YDS.
202	EXIST CURB AND GUTTER REMOVED & DISPOSED OF	83	95	178	LIN. FT.
403	Asphalt Conc.	5	22	27	CU. YDS.
203	Subgrade Preparation	283	333	616	SQ. YDS.
G21	Stop Bars (To Sheet N° 38)				

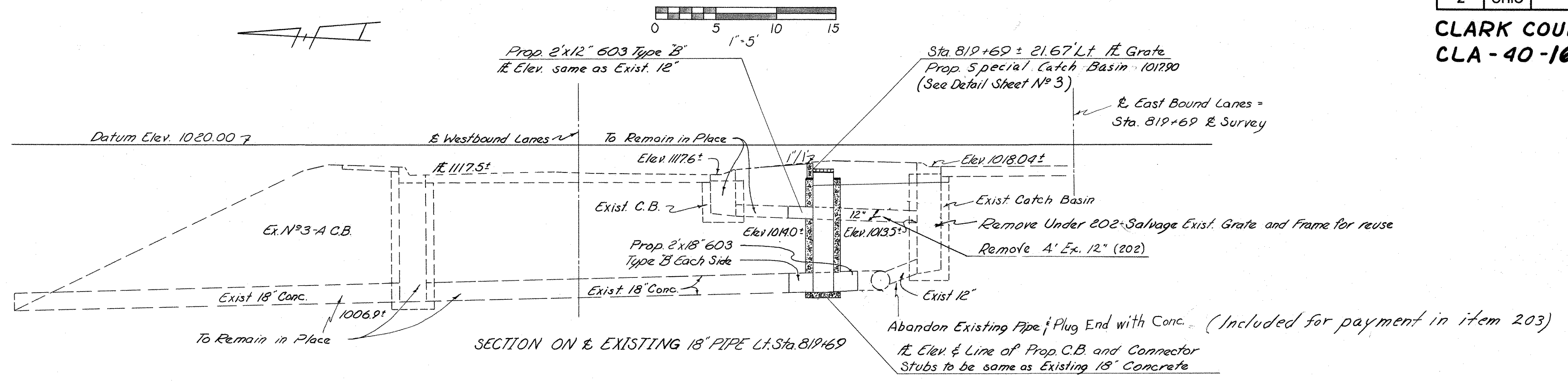
24 Lin. Ft.

STRUCTURE Sta. 819+69

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

33
42

CLARK COUNTY
CLA-40-16.29-25.70



SECTION ON & EXISTING 18" PIPE Lt. Sta. 819+69

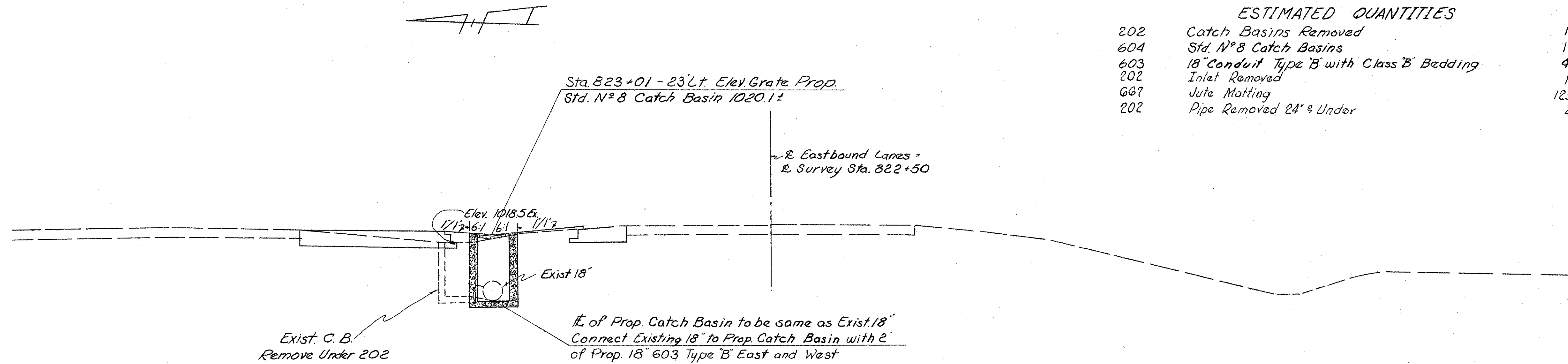
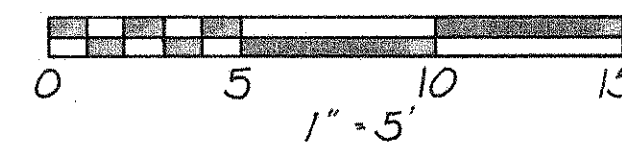
I-D - Sheet No 10

ESTIMATED QUANTITIES

202	Catch Basins Removed	1 Each.
604	Special Catch Basin	1 Each.
603	12" Conduit Type B with Class B Bedding	2 Lin. Ft.
603	18" Conduit Type B with Class B Bedding	4 Lin. Ft.
202	Pipe Removed 24" & Under	4 Lin. Ft.

DATE	3-8-68
BY	JES
DATE	4-2-68
BY	JES
DETAILS CHECKED	
DETAILS REVISED	

STRUCTURE Sta. 822+50



2-D & 7-D Sheet No 10

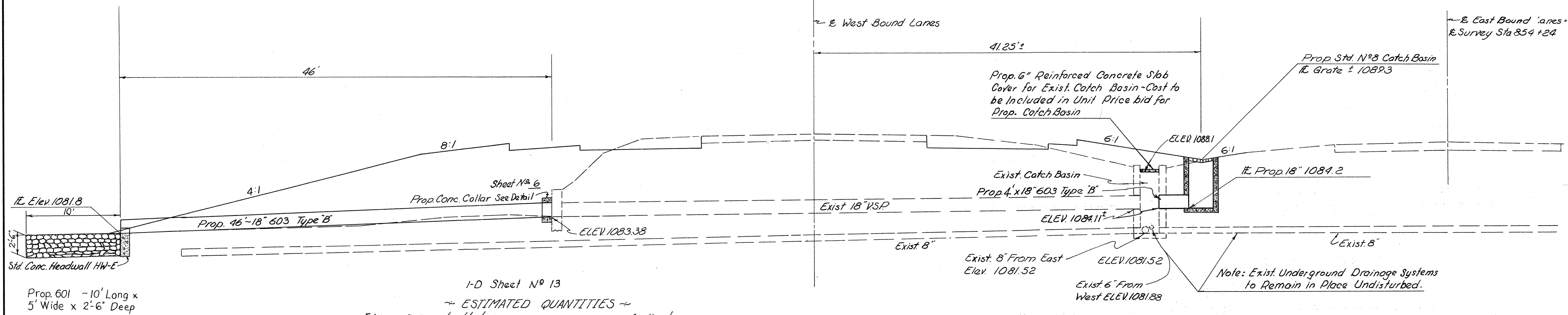
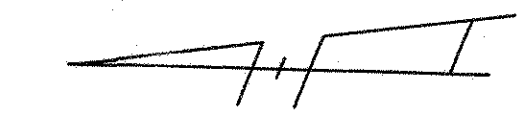
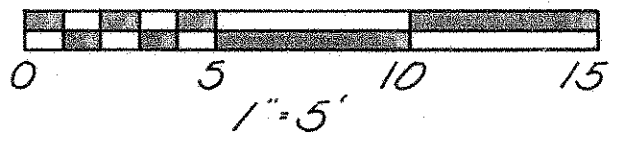
ESTIMATED QUANTITIES

202	Catch Basins Removed	1 Each
604	Std. No. 8 Catch Basins	1 Each
603	18" Conduit Type B with Class B Bedding	4 Lin. Ft.
202	Inlet Removed	1 Ea.
667	Jute Matting	125 Sq. Yd.
202	Pipe Removed 24" & Under	4 Lin. Ft.

STRUCTURE Sta. 854+24

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

CLARK COUNTY
CLA-40-16.29-25.70

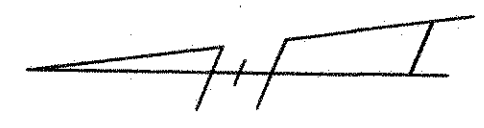
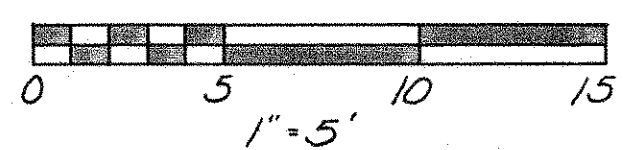


I-D Sheet No 13

~ ESTIMATED QUANTITIES ~

510	Dowel Hole	4 Each
604	Catch Basins Std. Type No 8	1 Each
603	18" Conduit Type B with Class B Bedding	50 Lin. Ft.
602	Concrete Masonry	0.3 Cu. Yd.
667	Jute Matting	125 Sq. Yd.
Special	Expansion Bolt	4 Each
601	Dump Rock Channel Protection	5 Cu. Yds.

STRUCTURE Sta. 861+39

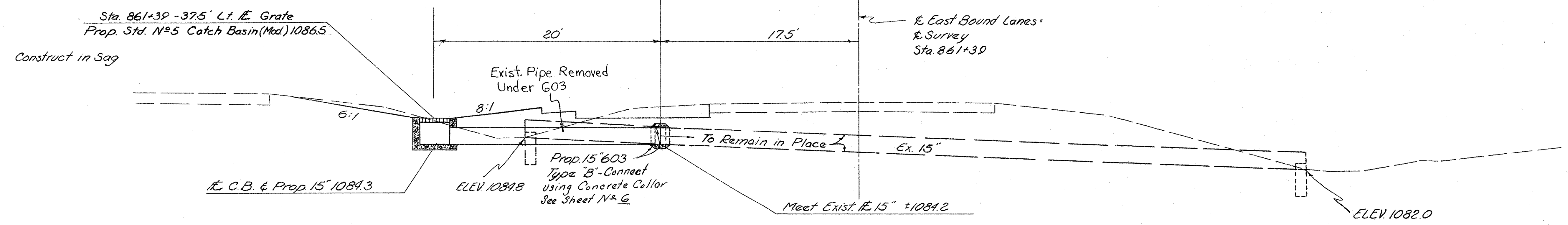


Note: The Standard No 5 Catch Basin shall be modified by providing a 2" Spacing of openings between the grate bars instead of the standard 3" openings.

I-D Sheet No 14

~ ESTIMATED QUANTITIES ~

604	Catch Basins Std. No 5 Modified	1 Each
603	15" Conduit Type B with Class B Bedding	20 Lin. Ft.



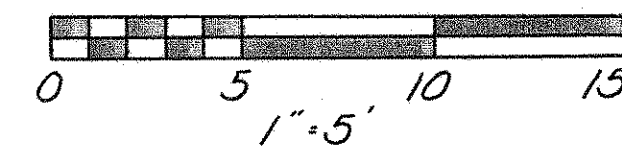
DATE	3-17-68
BY	T.E.S.
DETAILS CHECKED	T.E.S.
DETAILS REVISED	4-2-68

STRUCTURE Sta. 869+60

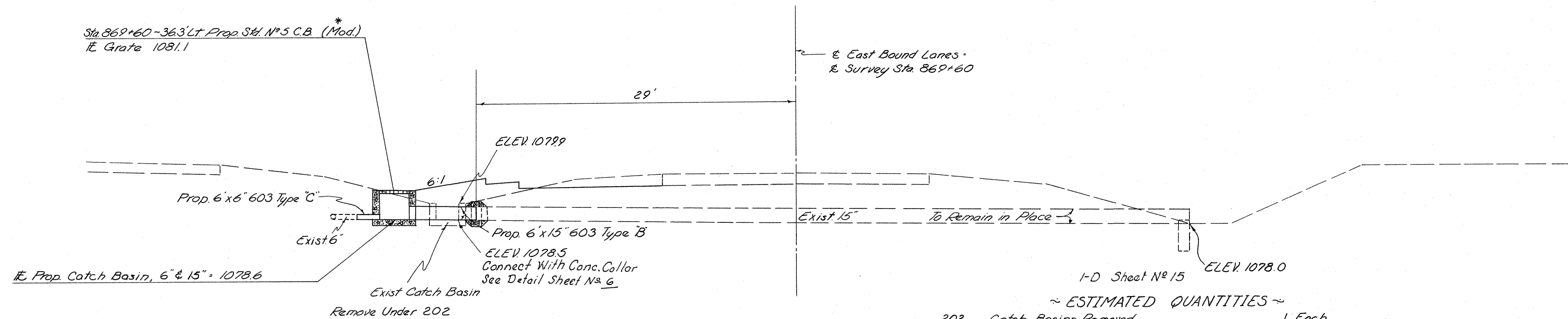
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

35
42

CLARK COUNTY
CLA-40-16.29-25.70



* For modification see note on Structure Detail Sta 861+39 Sheet No 34

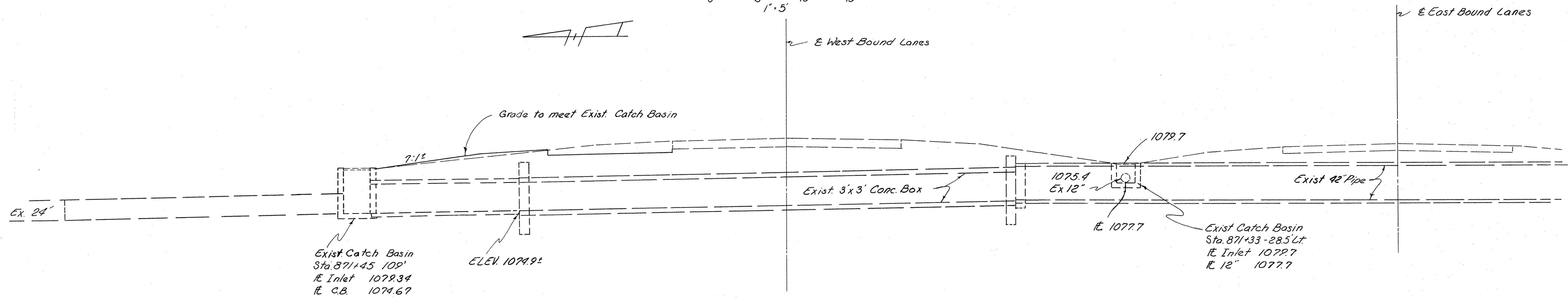
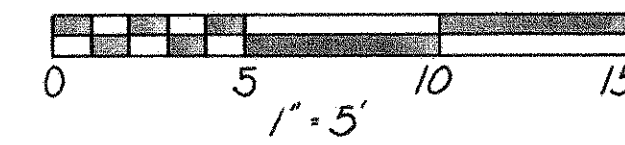


~ ESTIMATED QUANTITIES ~

202	Catch Basins Removed	1 Each
604	Catch Basins Std. No 5 (Modified)	1 Each
603	6" Conduit Type "C" with Class "B" Bedding	6 Lin. Ft.
603	15" Conduit Type "B" with Class "B" Bedding	6 Lin. Ft.

DATE	3-8-68
DESIGNED	TES
CHECKED	AES
REVISIONS	4-2-68

STRUCTURE Sta. 871+43

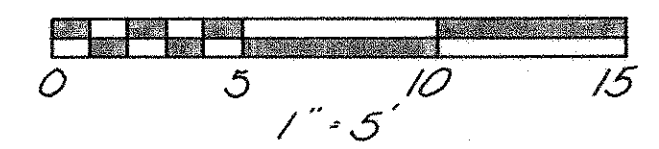


STRUCTURE Sta. 879+83

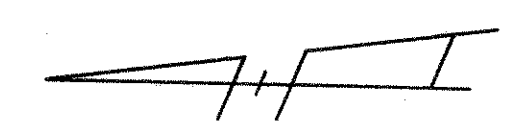
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

36
42

CLARK COUNTY
CLA-40-16.29-25.70

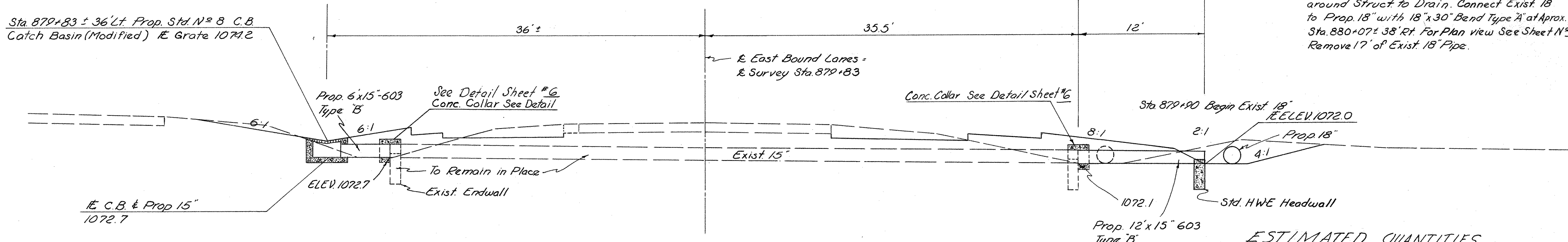


Note: The N°8 Catch Basin Shall be modified by Deleting the required 8" dimension from the flow line of the grate to the permissible construction joint as per Standard Drawing C-B-8 6-1-65. This Construction joint shall be omitted; however the Min. 1"x1"x1/4" Angles shall conform to the Std. Dwg. The Catch Basin Shall be constructed in a Sag.



Sta. 879+83 ± 36' Lt Prop. Std. N°8 C.B. Catch Basin (Modified) IE Grate 1071.2

Sta. 879+90 ± 50' Rt. Begin Prop. 20' x 18" 603 Type A IE Inlet 1071.9. Place Std. HWE Headwall at Entrance and Shape Earth around Struct. to Drain. Connect Exist. 18" to Prop. 18" with 18" x 30" Bend Type A at Approx. Sta. 880+07 ± 38' Rt. For Plan View See Sheet N° 30. Remove 17' of Exist. 18" Pipe.

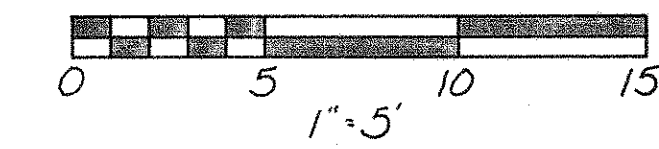


ESTIMATED QUANTITIES

510	Dowel Hole	8	Each
602	Concrete Masonry	0.56	Cu. Yd.
603	15" Conduit Type B with Class B Bedding	18	Lin. Ft.
603	18" Conduit Type A with Class B Bedding	20	Lin. Ft.
202	Pipe Removed 24" and Under	18	Lin. Ft.
604	Catch Basins Std N°8 (Modified)	1	Each
	18" x 30" Type A Bend	1	Each
667	Jute Matting	125	Sq. Yd.
Special	Expansion Bolt	8	Each

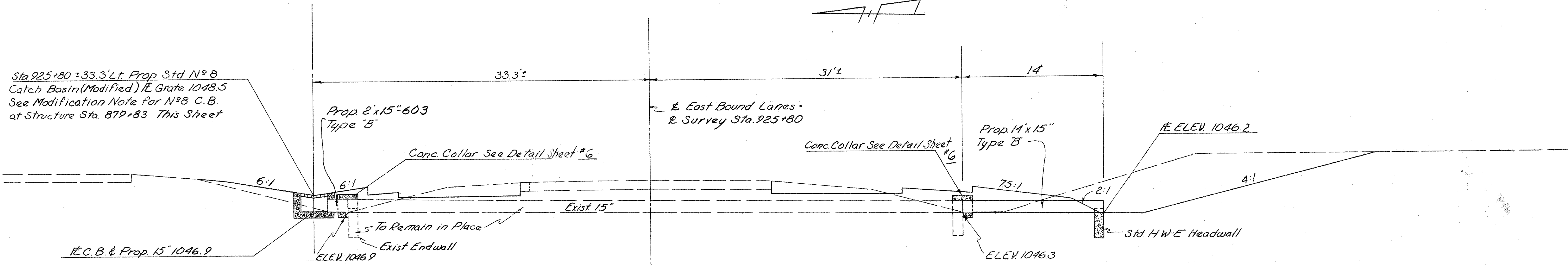
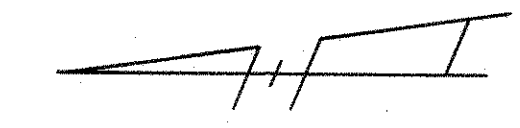
DATE	BY
3-7-68	TES
4-2-68	LES
DETAILS CHECKED	
DETAILS REVISED	

STRUCTURE Sta. 925+80



Sta. 926+03 ± 46' Rt. Begin Prop. 22' x 12" 603 Type A IE Inlet 1046.5 Place Std. HW-E Headwall at Entrance and Shape Earth around Struct. to Drain. Connect Exist. 12" to Prop. 12" with 12" x 30" Bend Type A Approx. Sta. 926+213 ± 35' Rt. For Plan View See Sheet N° 17

Sta. 925+80 ± 33.3' Lt. Prop. Std. N°8 Catch Basin (Modified) IE Grate 1048.5 See Modification Note for N°8 C.B. at Structure Sta. 879+83 This Sheet



ESTIMATED QUANTITIES

602	Concrete Masonry	0.26	Cu. Yd.
603	15" Conduit Type B with Class B Bedding	16	Lin. Ft.
604	Catch Basin Std. N°8 Modified	1	Each
603	12" Conduit Type A with Class B Bedding	22	Lin. Ft.
	12" x 30" Type A Bend	1	Each
667	Jute Matting	125	Sq. Yd.
Special	Expansion Bolt	8	Each
510	Dowel Hole	8	Each

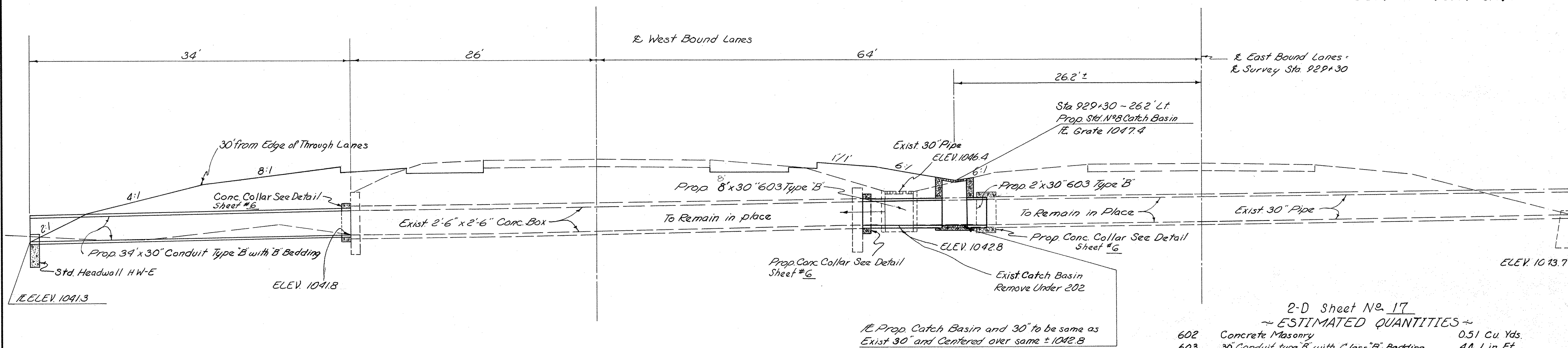
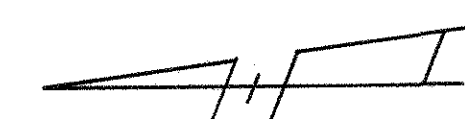
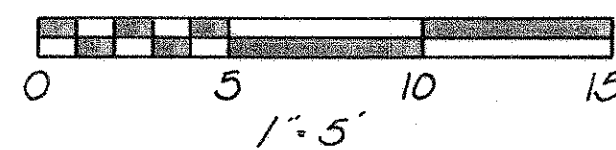
Inked by
EAC
4/17/68

STRUCTURE Sta. 929+30

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

37
42

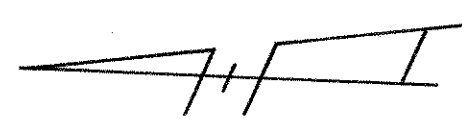
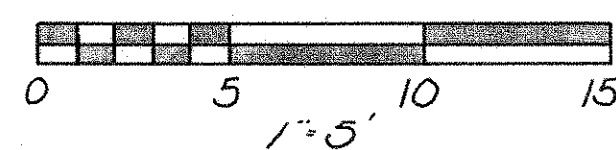
CLARK COUNTY
CLA-40-16.29-25.70



2-D Sheet No. 17
~ ESTIMATED QUANTITIES ~

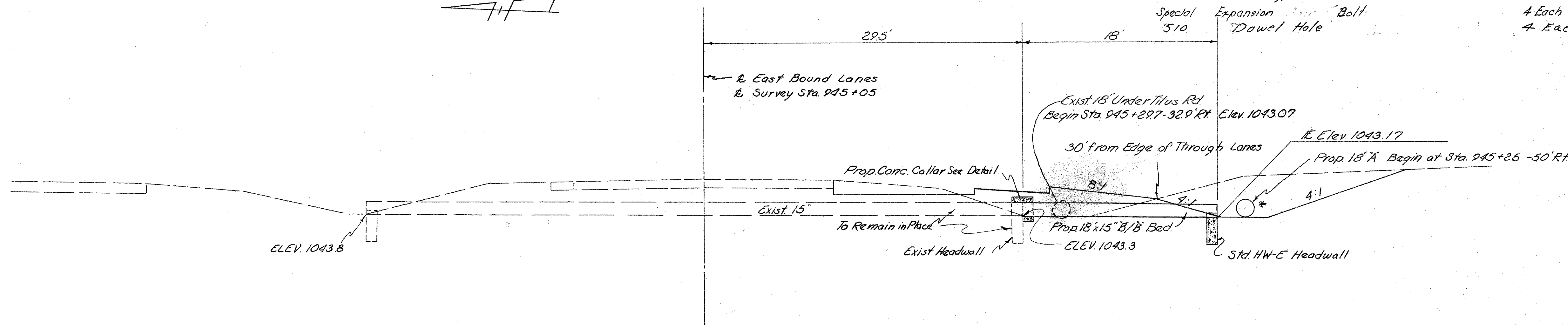
602	Concrete Masonry	0.51 Cu. Yds.
603	30 Conduit type B with Class B Bedding	44 Lin. Ft.
604	Catch Basins Standard N#8	1 Each
	Special Expansion Bolt	8 Each
510	Dowel Hole	8 Each

STRUCTURE Sta. 945+05



1-D Sheet No. 18
~ ESTIMATED QUANTITIES ~

602	Concrete Masonry	0.56 Cu. Yds.
603	15" Conduit type B with Class B Bedding	18 Lin. Ft.
603	18" Conduit type A with Class B Bedding	26 Lin. Ft.
	18" x 45" Type A Bend	1 Each
	Special Expansion Bolt	4 Each
510	Dowel Hole	4 Each



* Sta. 945+12 -50' Rt. Begin Prop. 26' x 18" Type A w/B Bedding. Place a Standard HW-E Headwall at the Inlet with FlowLine Elev of Inlet 1043.1 At Approximately Sta. 945+29.7-33' Rt Connect the Exist. 18" Conc. to the Prop. 18" with a 18" x 45" Type A Bend and Conc. Collar. For Plan View See Sheet No. 18

BY: JES LJS
 DATE: 3-7-68
 4-2-68
 DETAILS CHECKED
 DETAILS REVISED

CLARK COUNTY
CLA-40-16.29-25.70

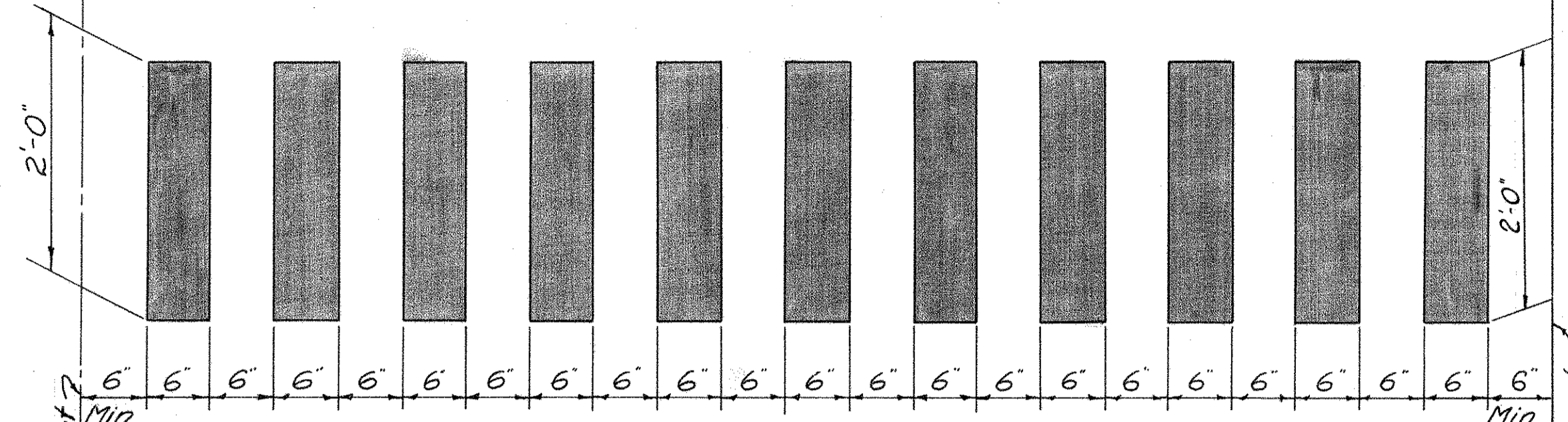
NOTES

MATERIAL SPECIFICATIONS.
 1. ALL BOLTS & NUTS LESS THAN 5/8" DIA. PASS. VATED STAINLESS STEEL AISI-300 SERIES-COMMERCIAL GRADE.
 2. ALL OTHER NUTS & BOLTS 5/8" DIA. & OVER-ASTM-A307 AND GALVANIZED IN ACCORDANCE WITH-ASTM-A153.
 3. ANCHOR BASE & U-BOLTS-HIGH STRENGTH STEEL-MINIMUM YIELD STRESS 55,000LBS. SQ. IN. -MIN.ULT. MATE 90,000PSI.
 4. GALVANIZING-WHEN SPECIFIED-ASTM-A123.

TRAFFIC SIGNAL POLE FOUNDATIONS
 THE CONTRACTOR SHALL STAKE THE LONGITUDINAL AND LATERAL LOCATION, AND THE ELEVATION OF THE TOP OF EACH FOUNDATION SUBJECT TO THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER ELEVATION, OFFSET, AND LEVEL OF EACH FOUNDATION. THE FOUNDATION LOCATIONS MAY BE CHANGED AS DIRECTED BY THE ENGINEER, IN CASE OF SLOPE OR SUBSURFACE DIFFICULTIES. EXCAVATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ITEM 503. EXCAVATION SHALL BE TO THE DIMENSIONS SHOWN ON THE PLANS, AND SHALL BE PERFORMED BY MEANS OF AN EARTH AUGER OR THE SPECIFIED DIA. UNLESS OTHERWISE DIRECTED BY THE ENGINEER. WHERE SUBSURFACE OBSTRUCTIONS ARE ENCOUNTERED, THE ENGINEER MAY REQUIRE THE CONTRACTOR TO REMOVE THE OBSTRUCTION OR TO REPLACE THE EXCAVATED MATERIAL AND RELOCATE THE FOUNDATION. IF CAVING OF THE EXCAVATION OCCURS, THE CONTRACTOR SHALL EXCAVATE THE SPECIFIED DEPTH MAINTAINING THE SIDES AS NEARLY VERTICAL AS POSSIBLE. NO PAINTMENT SHALL BE MADE FOR ANY EXCAVATION, CONCRETE, OR REINFORCING STEEL USED IN EXCESS OF THE PLAN QUANTITIES. CONCRETE, CLASS C, SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF ITEM 511, AND SHALL BE PLACED AGAINST UNDISTURBED SOIL OR COMPACTED EMBANKMENT. STEEL REINFORCEMENT BARS, WHERE REQUIRED, SHALL BE POSITIONED AS SHOWN ON THE PLANS AND PLACED IN ACCORDANCE WITH ITEM 509. CYLINDRICAL ANCHOR BASE TYPE FOUNDATIONS FOR TRAFFIC SIGNAL POLES SHALL HAVE ANCHOR BOLTS AND CONDUIT ACCURATELY HELD IN POSITION WITH A TEMPLAT WHILE CONCRETE IS PLACED. FORMS SHALL BE USED FOR THE UPPER PORTIONS OF ALL FOUNDATIONS AND NO BACKFILLING SHALL BE PERMITTED FROM THE BOTTOM TO SIX INCHES BELOW THE GRADE LEVEL. NO GROUTING OF CONCRETE SHALL BE PERMITTED BETWEEN THE FOUNDATION TOP AND THE POLE BASE.

Excavation for Strain Pole Foundation shall be included for payment in item 203 Linear Grading, as per plan.

PLASTIC STRIP STOP BAR PLACING DETAIL



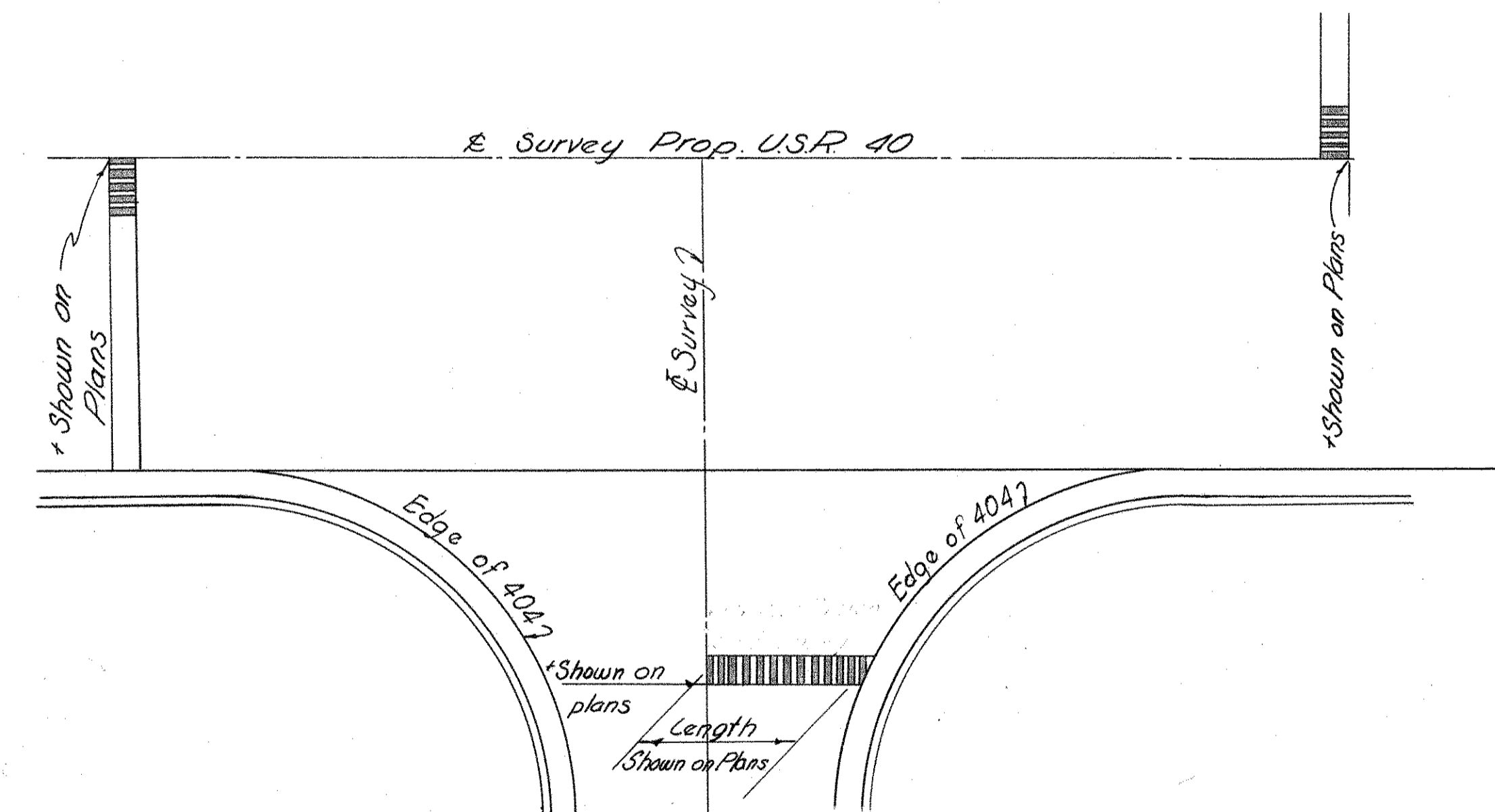
Note: Plastic Material for Stop Bars, to be furnished by the State of Ohio. Plastic Strip Bars shall be placed by the Contractor during the final rolling of the finished asphalt pavement surface. Rolling shall be performed in such a manner as to assure full embedment of the strips, & Pavement Markings. The top surface of the plastic material shall be flush with the finished pavement surface.

The strips shall be carefully placed parallel to each other in advance of the roller. Rolling operations shall be conducted in such a manner as to minimize any disruption of alignment of the plastic strips.

Alignment deviations shall not exceed the following, except as may be otherwise approved by the Engineer ± 1/2 inch from the transverse line nearest to the main through highway pavement ± 1/2 inch from specified transverse spacing between strips (See sketch above).

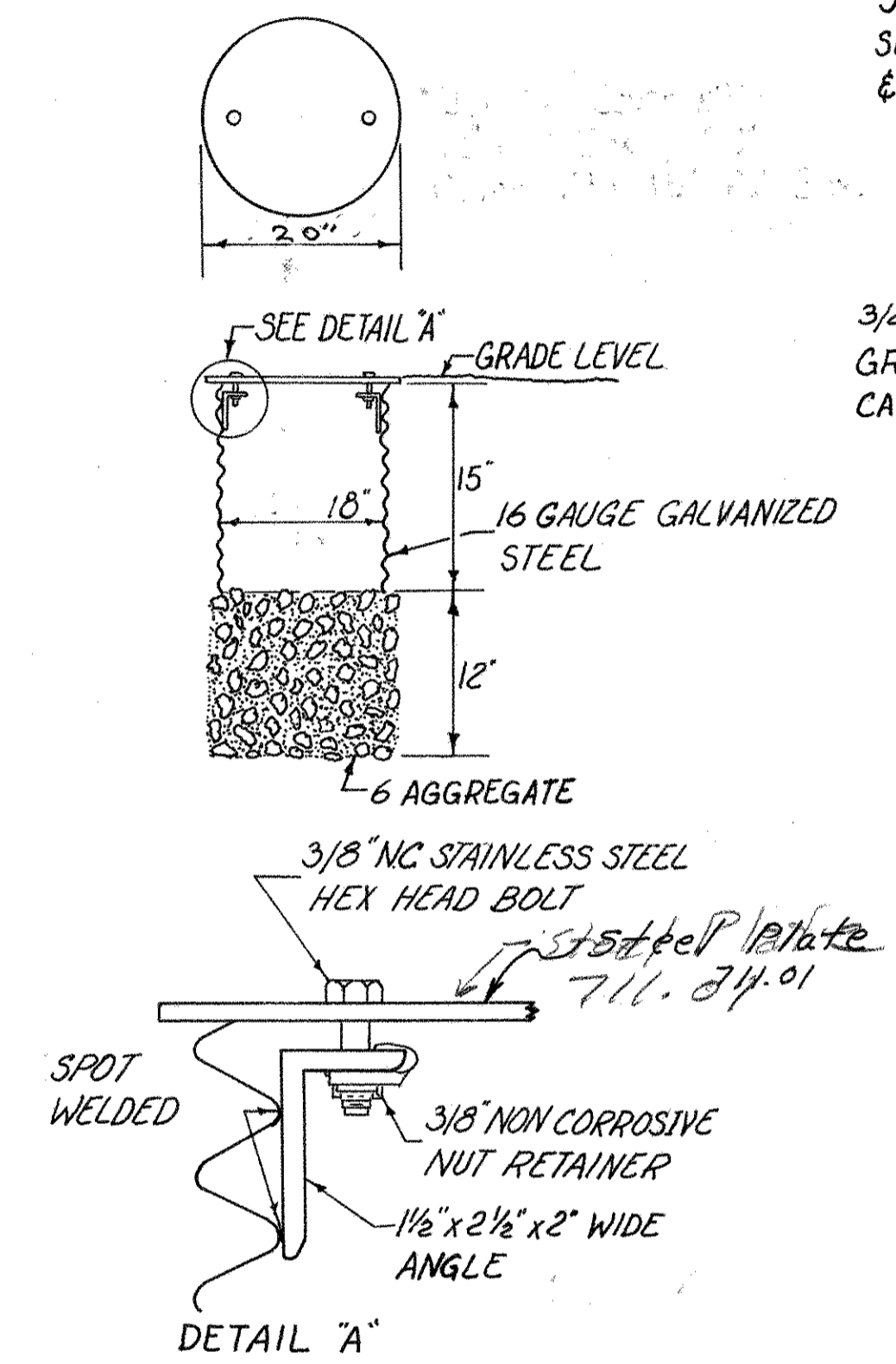
No strip shall be placed closer than six inches from either the edge of the approach pavement or the centerline of the approach road.

The footage to be paid for shall be the actual lineal feet of plastic strip stop bar material required. Payment for the above described operations shall be included in the price bid per lineal feet. Item Special, Placing Plastic Strip Stop Bars.

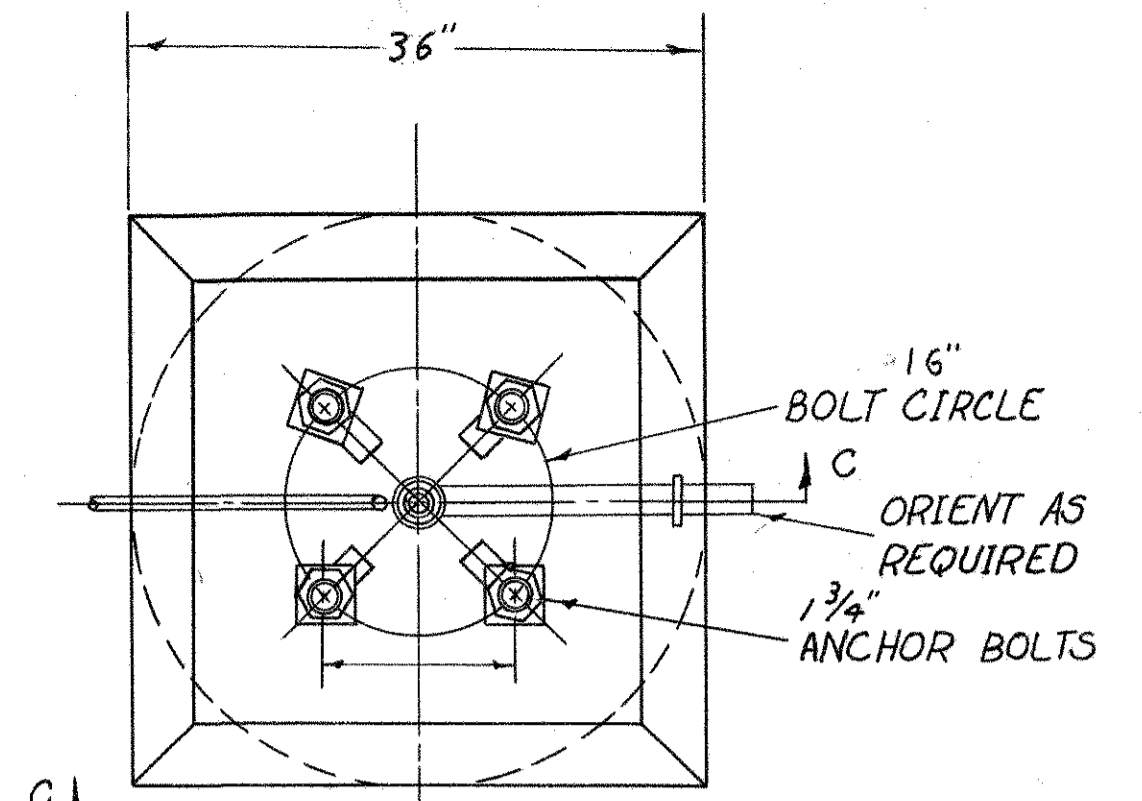


PULL BOX: The 18" circular pull box shall be made of 16 gauge corrugated hot dipped galvanized steel and of the dimensions as shown on the pullbox detail. The method of securing the steel cover shall be similar to that shown on pullbox detail. All external surfaces of the pull box shall be primed, then coated with 20 mils asphalt. The interior of the pull box shall be painted with grey Zinc-rich paint. There shall be no floor or bottom to the pull box. The access cover shall be a 1/2" diamond embossed galvanized steel flat type with two 3/8" hex head stainless steel bolts for securing the pull box. The cover shall be painted with two coats of green abrasive paint. All the above to be included for payment in the price bid for Pull Box.

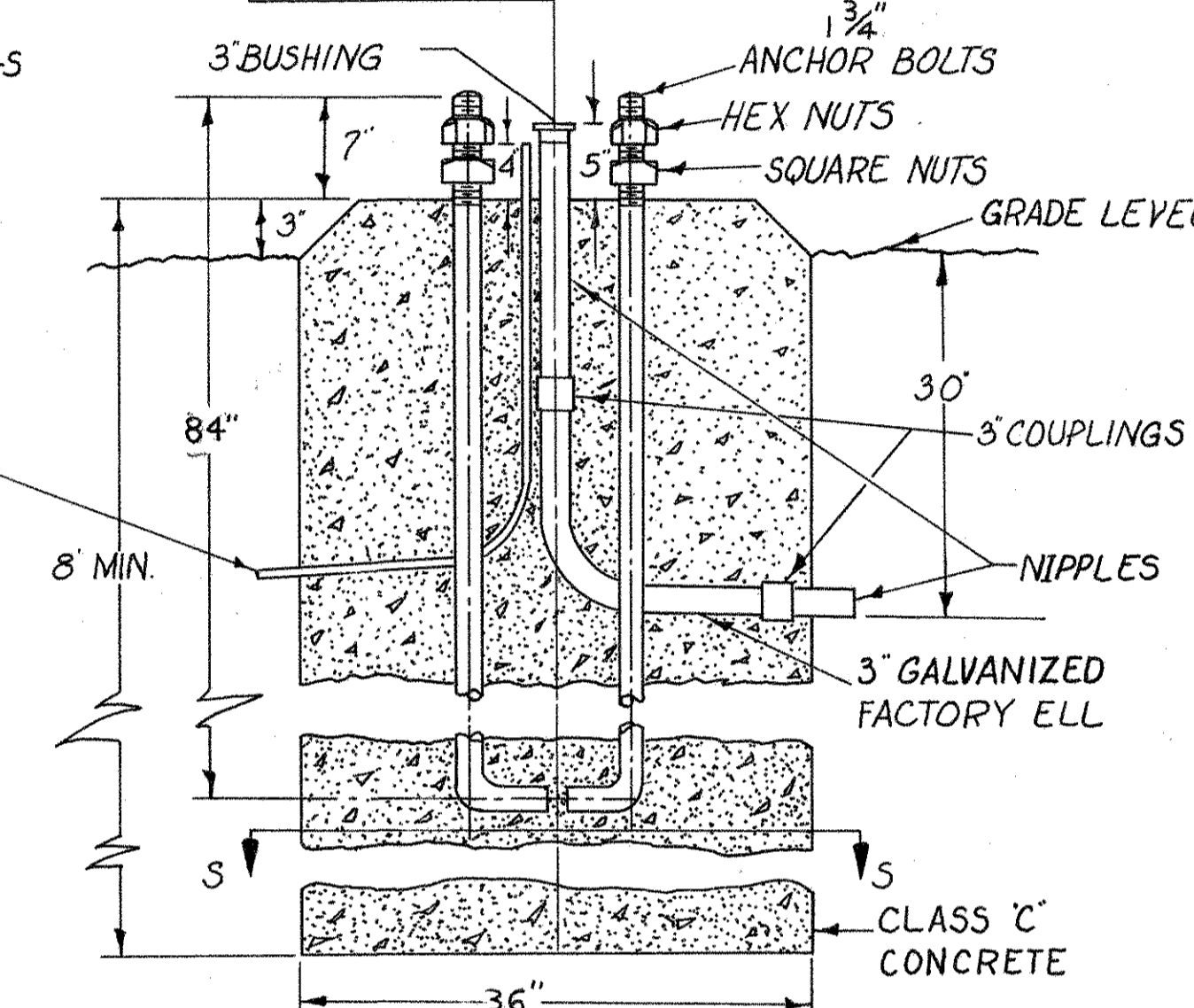
PULL BOX DETAILS



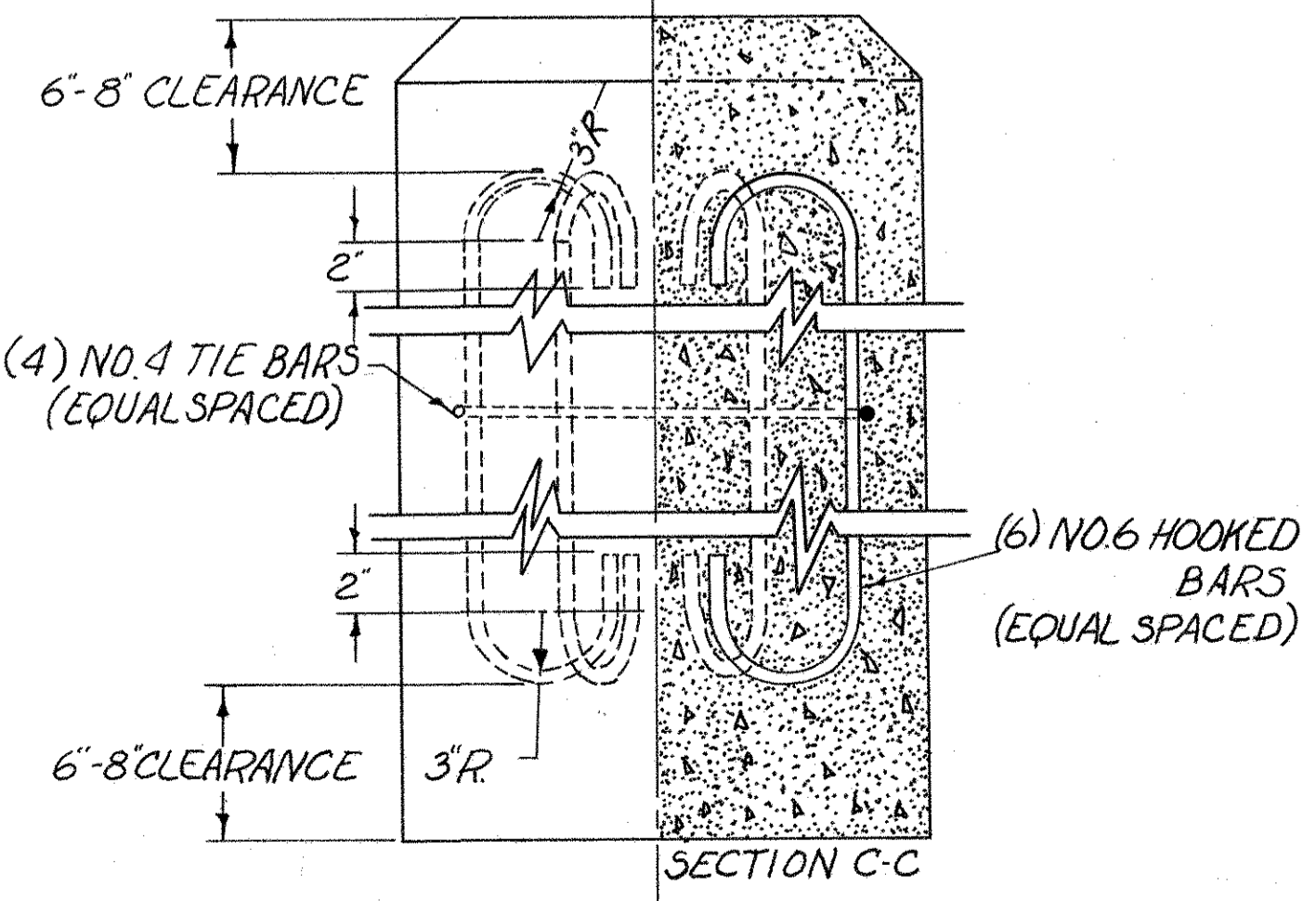
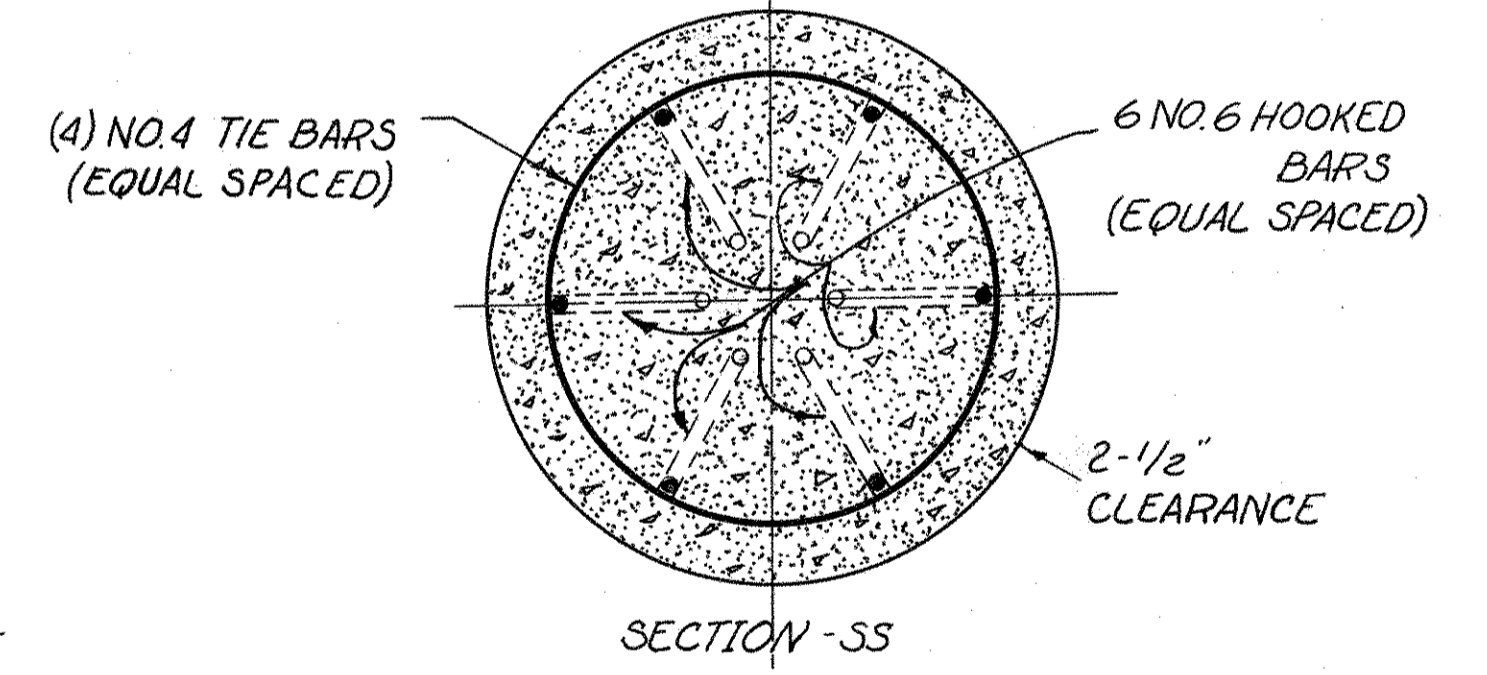
GALVANIZED STEEL CONDUIT: All conduit furnished under this specifications (G25.13) shall be galvanized in accordance with the requirements of ASTM-A 53 except that the weight of zinc coating shall be not less than 1.2 ounces per square foot of total coated surface.



FOR REINFORCING STEEL DETAILS SEE SECTIONS S-S & C-C BELOW



TYPICAL STRAIN POLE FOUNDATION



TYPICAL REINFORCING STEEL SECTIONS

TRAFFIC SIGNAL & PAVT. MARKING SUMMARY

ITEM	FROM SHEET NO								GRAND TOTALS	UNITS	DESCRIPTION
	25	26	27	28	29	30	31	32			
SPECIAL	168	27	28	32	32	40	26	24	377	L.F.	Placing Plastic Strip Stop Bars
G25	7					32			39	L.F.	3" Conduit, 713.04, Type II or III
G25	458					528			986	L.F.	1 1/2" Conduit, 713.04, Type II or III
G25	465					560			1025	L.F.	Trenching
G25	6					6			12	Ea.	18" Round Pullbox, As Per Plan
G25	4					4			8	Ea.	Traffic Signal Pole Foundations (Strain) As Per Plan

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

STEEL STRAIN POLE FOUNDATION DETAILS

APPROVED _____ ENGINEER OF TRAFFIC

DATE: 5-21-68
 DESIGNED BY: TFS
 CHECKED BY: TFS

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

TOTAL NUMBER OF OWNERS 12

NUMBER OF STRUCTURE PARCELS —

JOB NUMBER 075970

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

CLARK COUNTY
CLA-40-16,92-25.70

39
42

2
5

FUNDS	PAR No	OWNER	DEED RECORD		DEED AREA	TOTAL PRO	TO BE ACQUIRED			NET RESIDUE		SHEET No	REMARKS	RECORDING DATA
			VOL	PAGE			TOTAL TAKE	PROM TAKE	NET TAKE	BLDG	LEFT			
	1T	COOKE PROPERTIES, INC.	574	250	21.24	1.047	0.092		0.092		21.24	3		
	2	STATE OF OHIO	568	61	17.36	0.648	0.277		0.277		16.435	3		
	2T						0.488		0.488			3		
	3T	EDWARD C. WEBSTER	446	643	2.740	0.135	0.032		0.032		25.73	3		
	3T1						0.001		0.001			3		
	4T	WILLIAM C. HESS, ETAL	364	152	1.76	0.158	0.021		0.021		1.581	3		
	5	NOT USED												
	6LA	MILT & JERRY, INC.	553	57	0.676		0.023		0.023		0.653	3		
	7LA	MILTON KANTOR, ETAL	577	375	3514	0.046	0.205		0.205		3.263	3		
			576	225										
			576	535										
	8	NELLIE T. ELDER (DECD)	438	81	24.09*	0.98	0.712		0.712		22.398	4		
	9LA	HELEN M. OGLE	528	525	3.56	0.763	0.626		0.626		2.171	4.5		
	10	DORTHY L. DUFFY	537	289	8.79*	0.944	0.522		0.522		7.324	5		
	11LA	MERLIN K. MILLER	590	539	25.37	1.13	0.231		0.231		24.009	5		
	12PR	ARTHUR W. REMSBURG, ETAL	440	464	0.21	0.009					0.21	5		
	13	JOSEPH G. FULTON, ETAL	443	429	0.42	0.06	0.011		0.011		0.349	5		
	14LA	MERLIN K. MILLER	590	539	95.88 ^L	6.23	0.375		0.375		89.275	5		

Entered By CLK 8/1/70

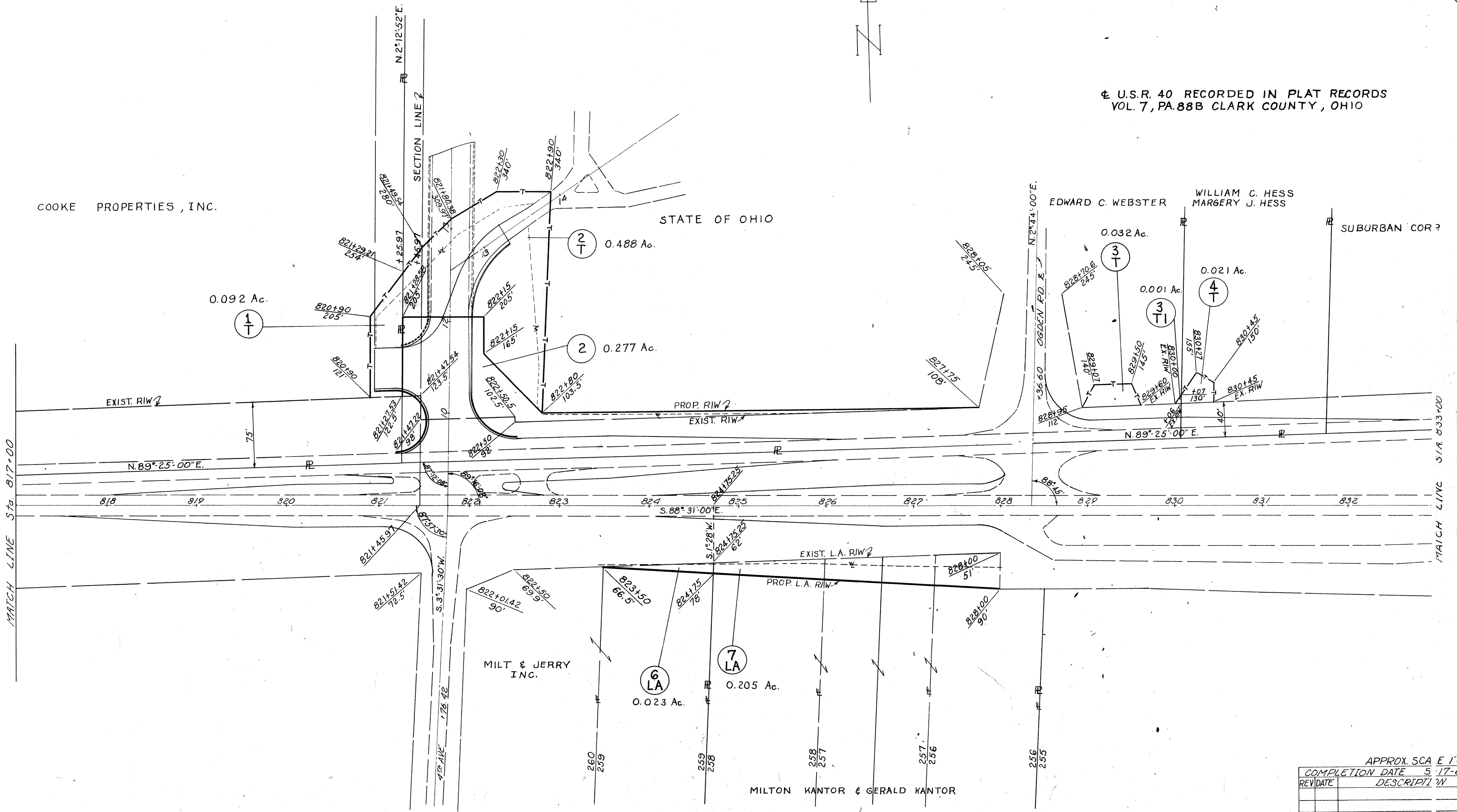
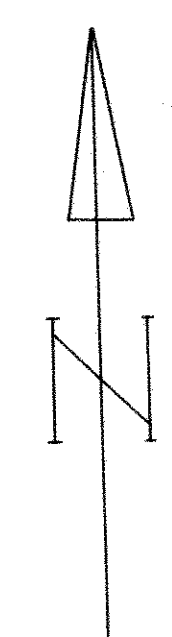
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	1968

40
42

CLARK COUNTY
CLA-40-16.92-2570
LIMITED ACCESS

3
5

U.S.R. 40 RECORDED IN PLAT RECORDS
VOL. 7, PA. 88B CLARK COUNTY, OHIO



APPROX. SCALE 1"=50'

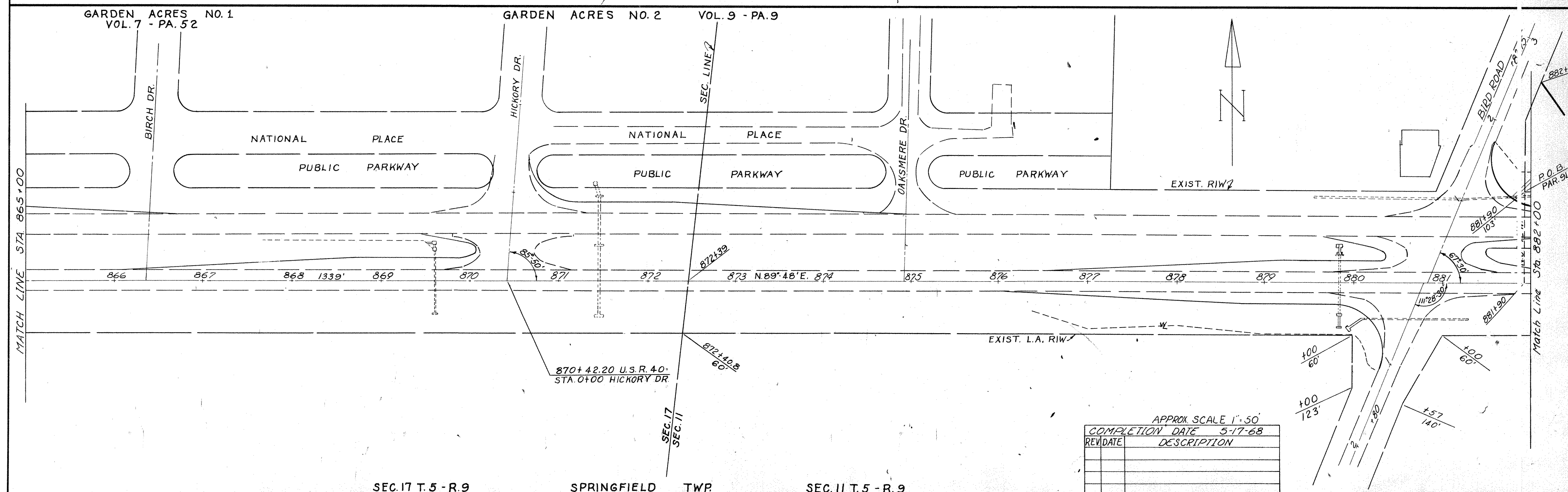
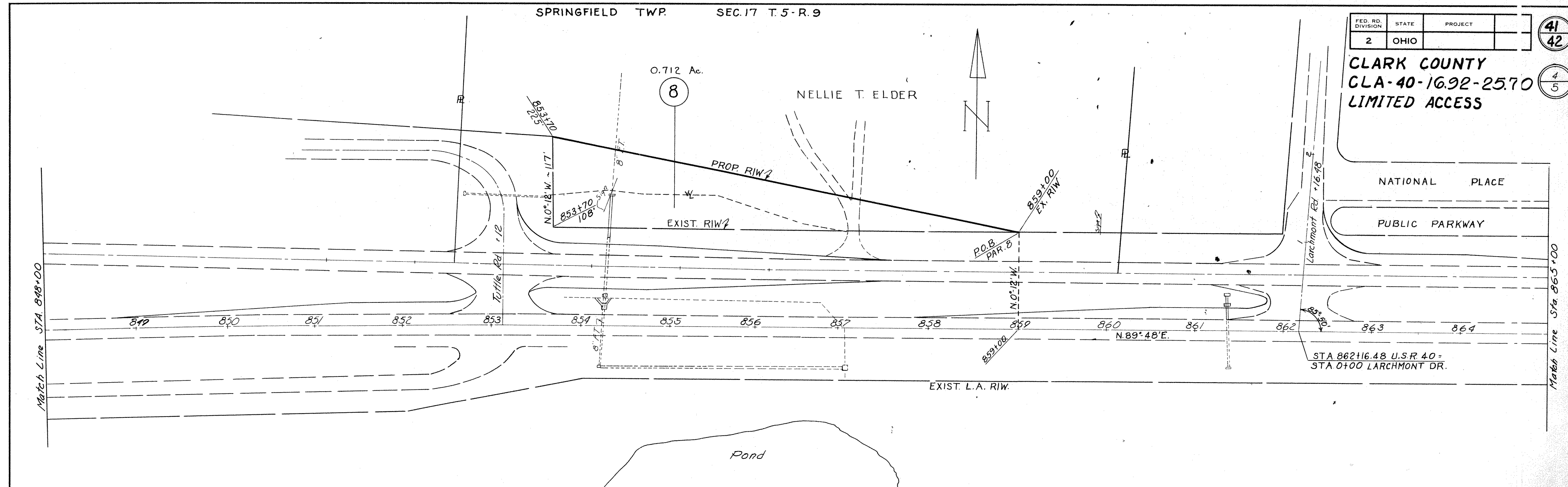
COMPLETION DATE	5-17-68
REV. DATE	DESCRIPTION

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

41
42

CLARK COUNTY
CLA-40-16.92-25.70
LIMITED ACCESS

4
5



APPROX. SCALE 1" = 50'

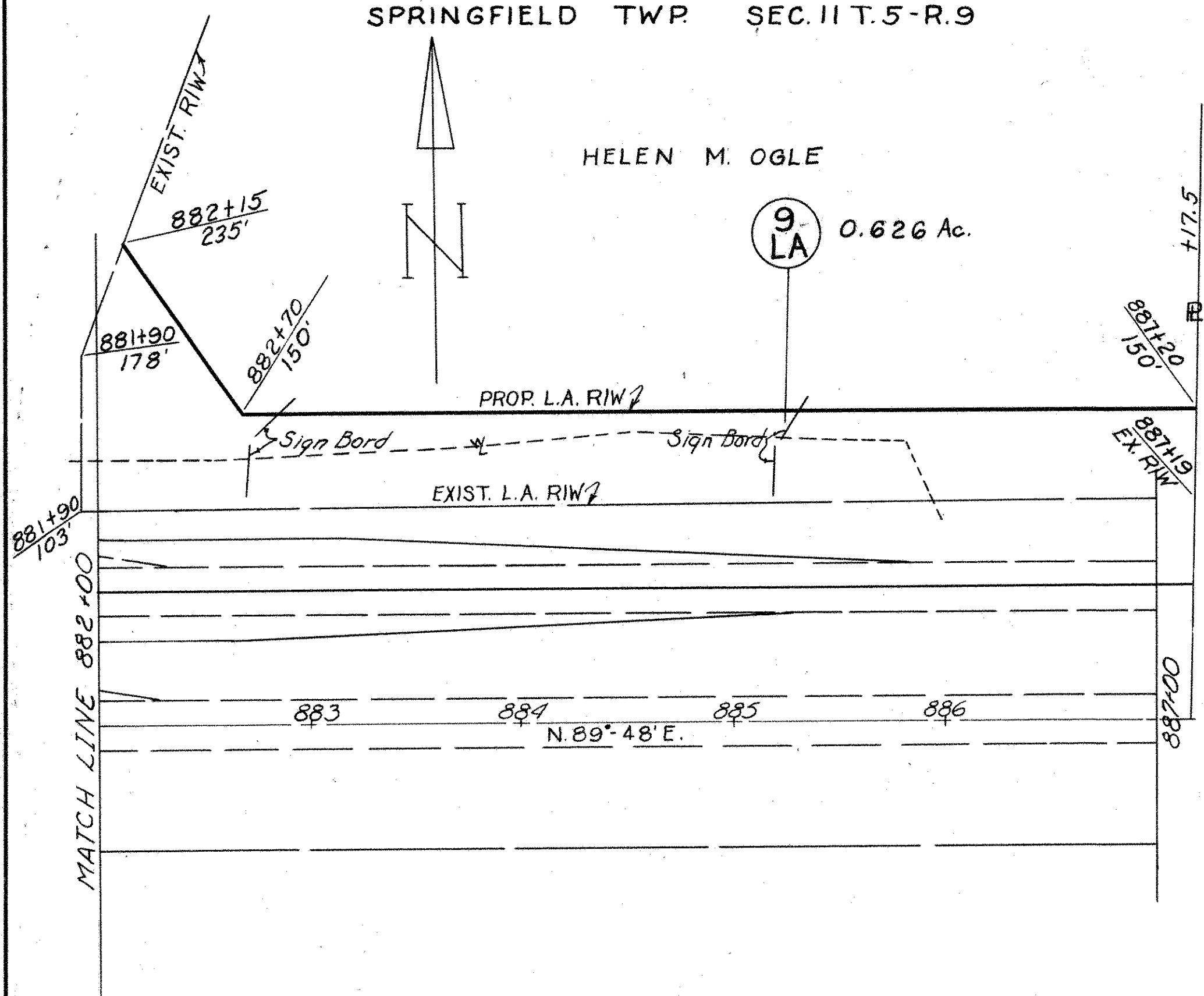
COMPLETION DATE 5-17-68

REV	DATE	DESCRIPTION

SPRINGFIELD TWP SEC. 11 T. 5 - R. 9

HELEN M. OGLE

9 LA 0.626 Ac.



SPRINGFIELD TWP SEC. 5 T. 5 - R. 9 LIMITED ACCESS

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

CLARK COUNTY CLA-40-16.92-25.70

DOROTHY L. DUFFY

10 0.522 Ac.

M.L. & A.W. REMSBURG

12 PR JOSEPH G. & BETTY LOU FULTON 0.011 Ac.

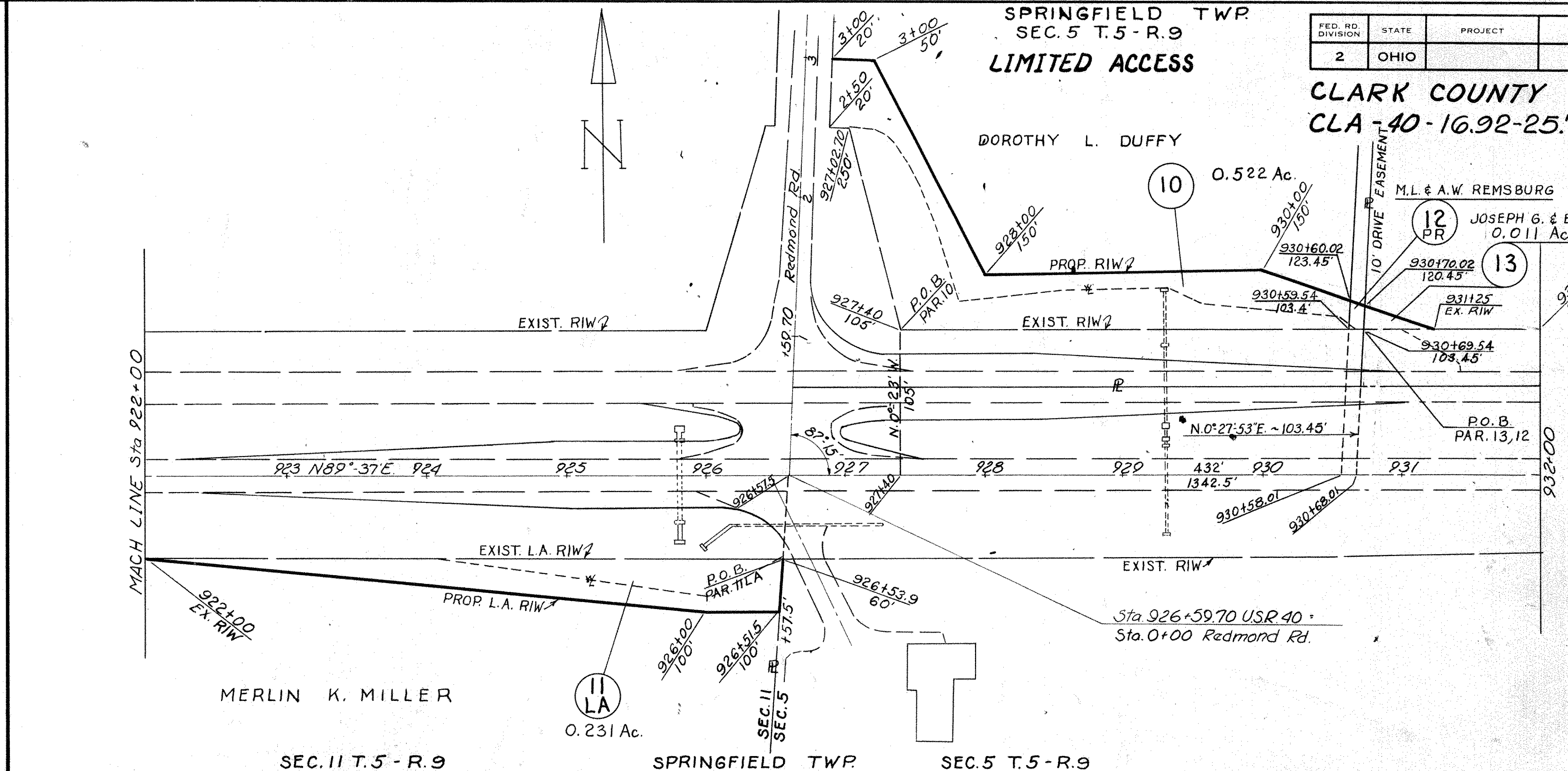
13 PR

930170.02 120.45'

931125 EX. RIW

930169.54 103.45'

P.O.B. PAR. 13, 12



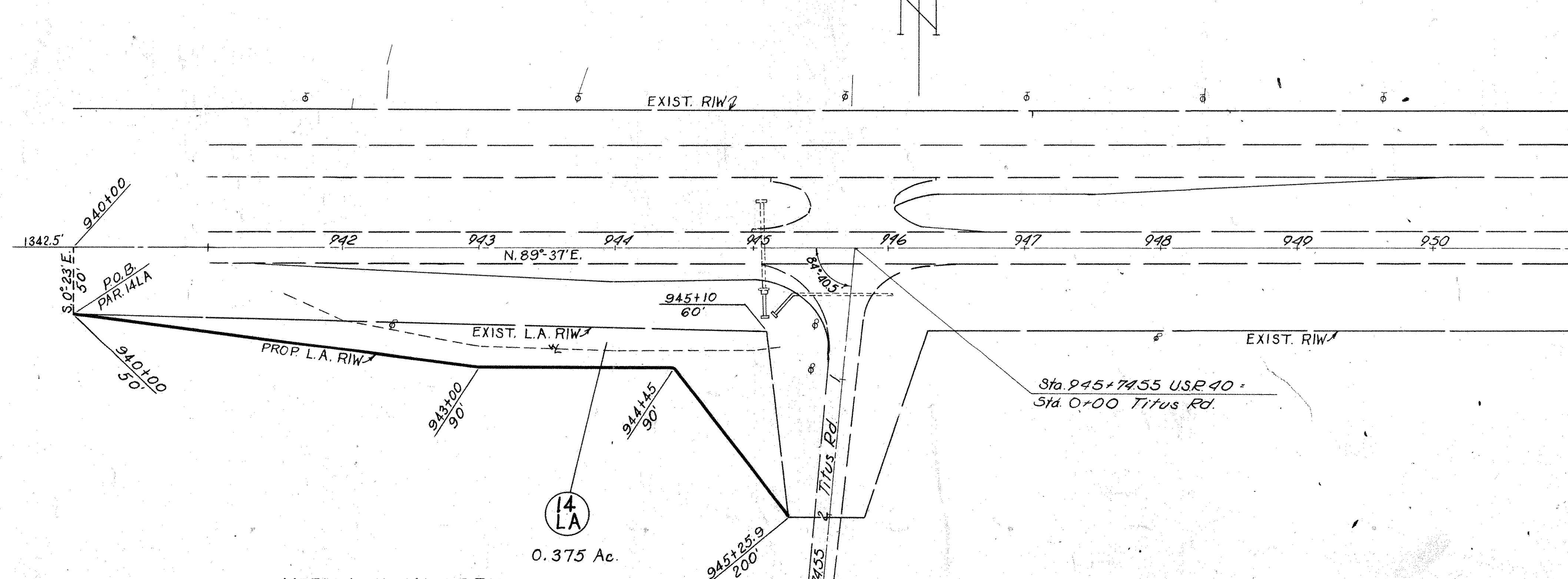
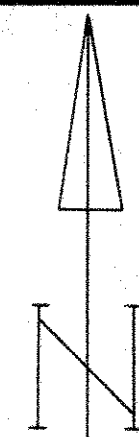
MERLIN K. MILLER

11 LA 0.231 Ac.

SEC. 11 T. 5 - R. 9

SPRINGFIELD TWP

SEC. 5 T. 5 - R. 9



MERLIN K. MILLER

14 LA 0.375 Ac.

SPRINGFIELD TWP

SEC. 5 T. 5 - R. 9

APPROX. SCALE 1" = 50'

COMPLETION DATE 5/17-68

REV. DATE	DESCRIPTION