

NOT IN A DRAWER yet

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

EAST SECOND STREET, CITY OF SUPERIOR

BLUFF CREEK BRIDGE
U.S.H. 2 & 53
DOUGLAS COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1190-07-73	MAFO18(46)	1
1190-07-74	MAFO18(46)	1
1190-08-77	-	-

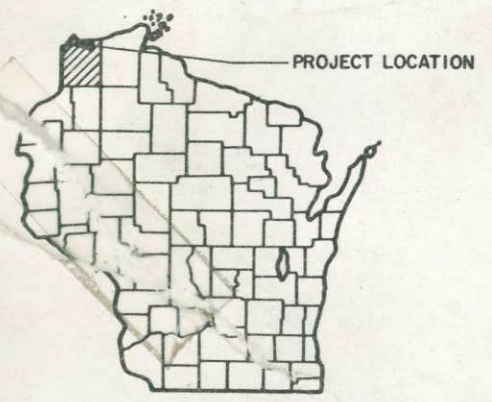
Index of Sheets

Sheet No.	Title
Sheet No. 1	Title
Sheet No. 2-2.15	Typical Sections and Details
Sheet No. 3-3.4	Estimate of Quantities
Sheet No. 3A-3F	Miscellaneous Quantities
Sheet No. 4-4.5	Right of Way Plat
Sheet No. 5-5.20	Plan and Profile
Sheet No. 6-6.35	Standard Detail Drawings
Sheet No. -	Standard Sign Plates
Sheet No. 8-8.10	Structure Plans
Sheet No. -	Computer Earthwork Data
Sheet No. 9-9.53	Cross Sections

TOTAL SHEETS = 156

#16

DOUGLAS



STATE PROJECT NUMBER
1190-07-73 & 74,

STATE PROJECT NUMBER
1190-08-77

7297-863

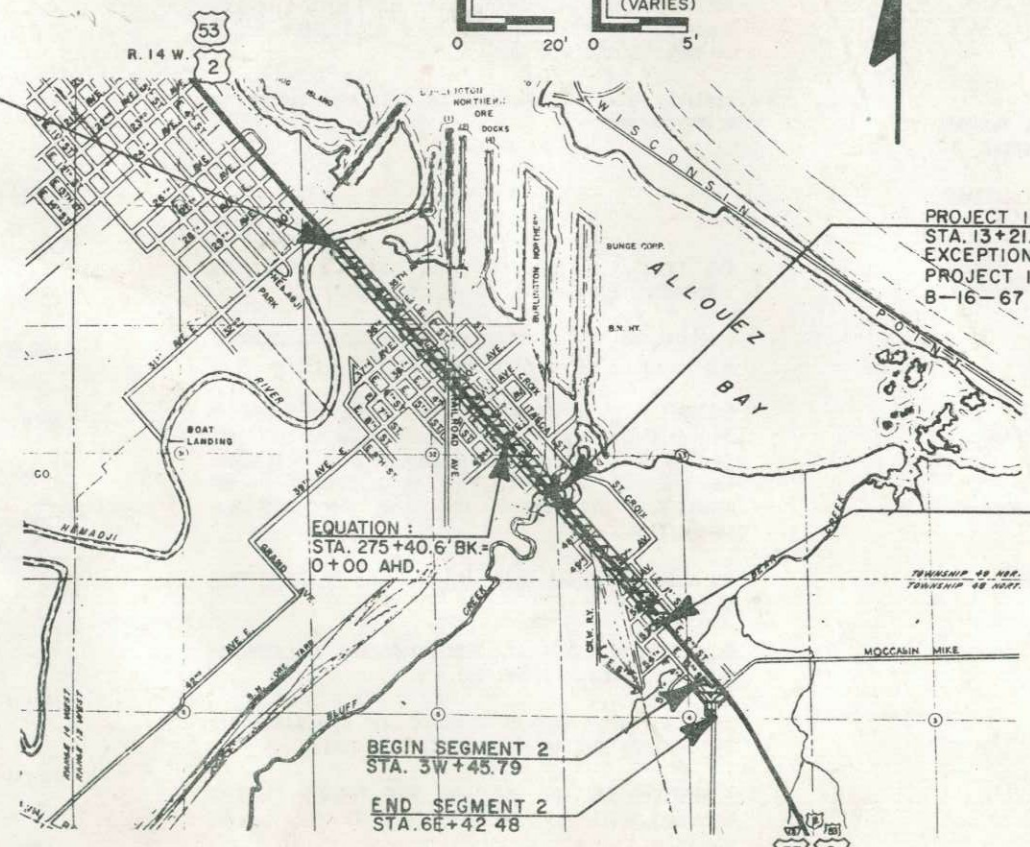


Design Designation

A.D.T. (1989)	= 19,490
A.D.T. (2009)	= 25,750
D.H.V. (2009)	= 2,781
D.	= 60/40
T.	= 7%
V.	= 40 M.P.H.
CLASS	= S-3

Special Signs

Caution Symbol (Combustible fluids under pressure)	
Railroads	
Fence	
Culverts in Place	
Culverts Required	
Power Pole	
Telephone or Telegraph Pole	
Right of Way Markers	
Marsh	
Flooded Area	
Grade Elevation	



BEGIN PROJECT 1190-07-73
STA. 219+56.13
N 564,400 ± 100'
E 1,489,600 ± 100'

PROJECT 1190-08-77
STA. 13+21.25 TO 13+98.75 =
EXCEPTION TO NET LENGTH OF
PROJECT 1190-07-73, 74
B-16-67

END PROJECT 1190-07-73
STA. 52+40
N 556,050 ± 100'
E 1,496,700 ± 100'

Net Length of Centerline = 2.035 Mi. PROJECT 1190-07-73
0.015 Mi. PROJECT 1190-08-77

COORDINATE NOTE:

ALL COORDINATES ARE REFERENCED TO THE WISCONSIN COORDINATE SYSTEM CENTRAL ZONE AND SCALED FROM U.S.G.S. TOPOGRAPHIC MAP SUPERIOR, WI., 1983, 7.5 MINUTE WISCONSIN QUADRANGLE FOR IDENTIFICATION ONLY.

APPROVED FOR
CITY OF SUPERIOR

10-7-88 *Charles B. Schell*
DATE DIRECTOR OF PUBLIC WORKS



10/21/88
DATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Surveyor _____ District Checker _____
Designer _____ C. O. Checker *Rlc*
District Supervisor _____ C. O. Coordinator _____

Approved:
Date 10-7-88 *Greg Piette*
District Transportation Director

Approved:
Date 11-1-88 *[Signature]*
STATE TRAFFIC ENGINEER FOR HWY.

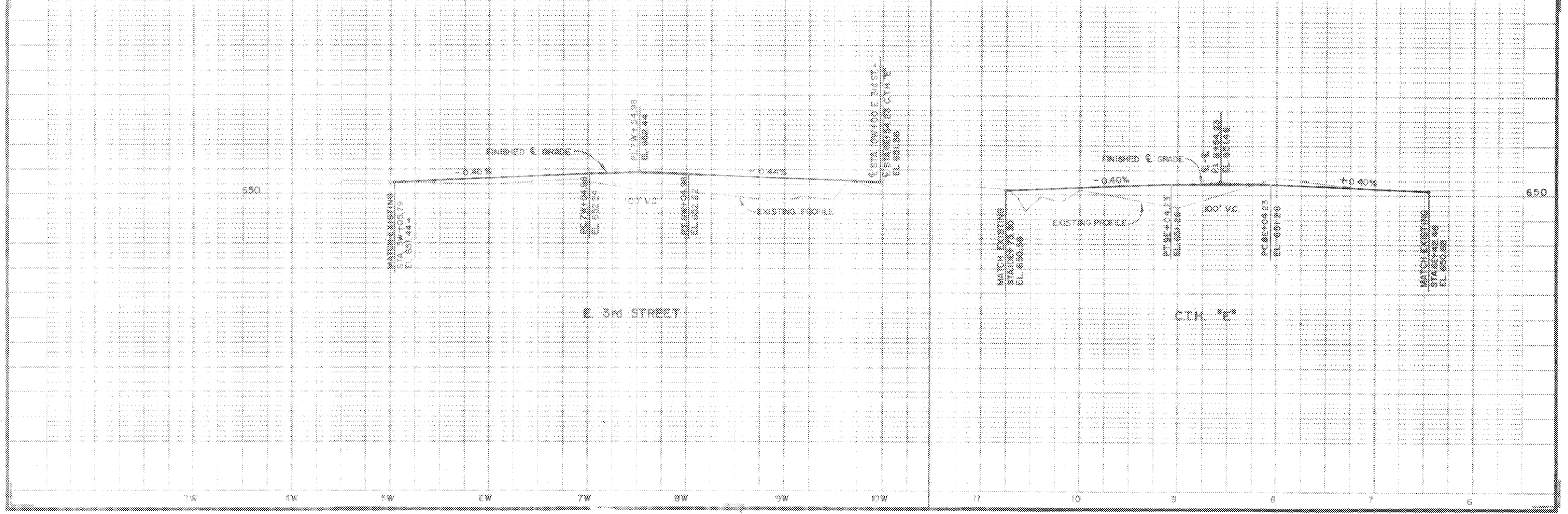
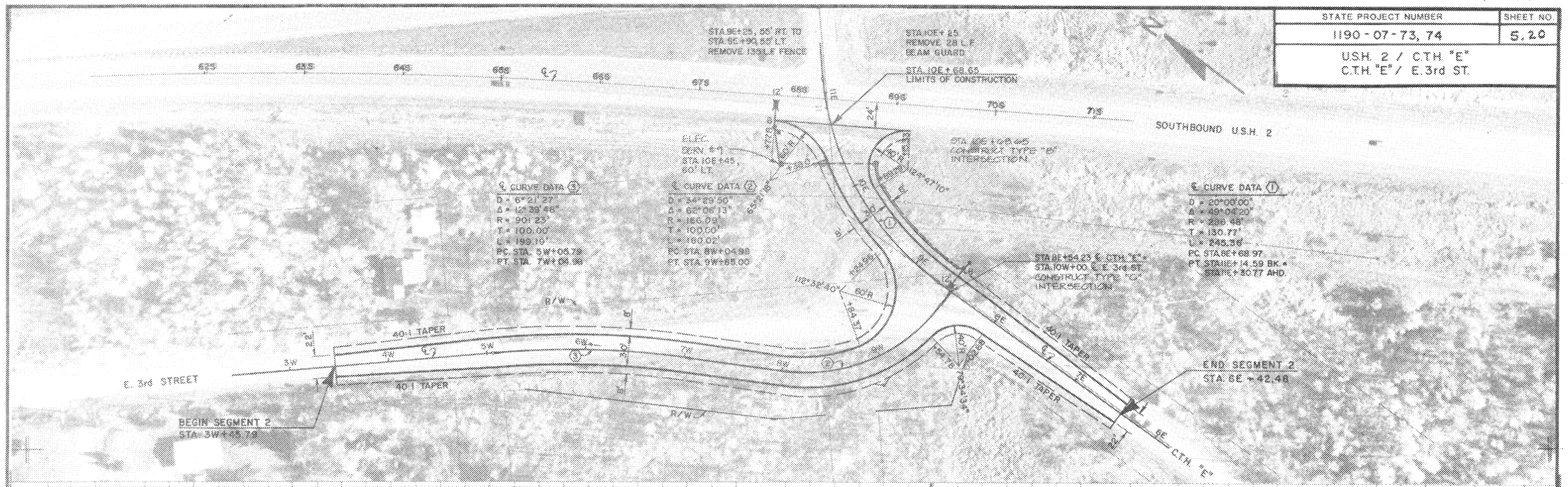
APPROVED:
11/8/88 *R. W. Bury*
FOR STATE DESIGN ENGINEER FOR HWY.

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
REGION 5 WISCONSIN DIVISION

Approved:
Date _____ Division Administrator

1190-8-71

STATE PROJECT NUMBER	SHEET NO.
1190-07-73, 74	5.20
USH 2 / CTH "E" CTH "E" / E.3rd ST.	



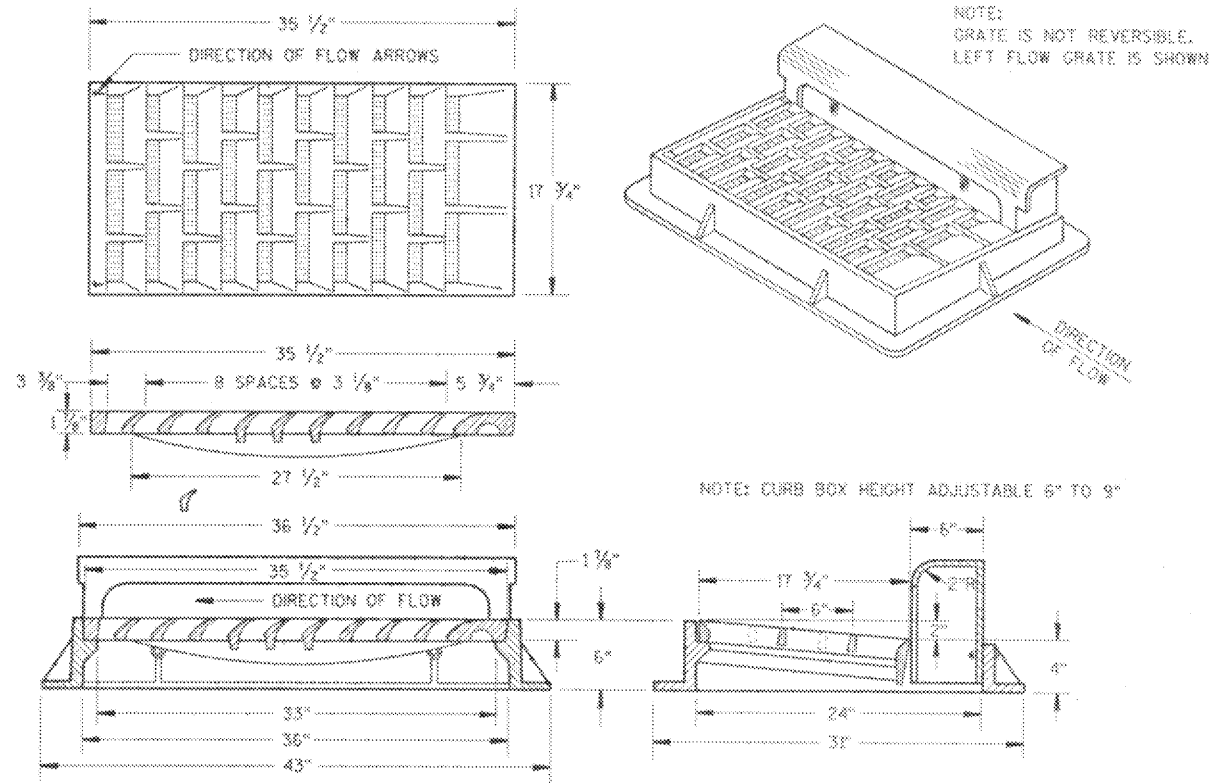
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

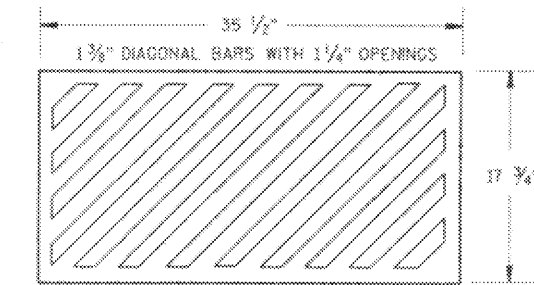
ALL CATCH BASIN, MANHOLE AND INLET COVERS WHICH ARE PLACED IN VEHICULAR TRAFFIC AREAS SHALL BE "NON-ROCKING" TYPE.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

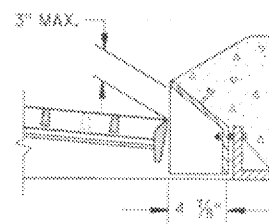


NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

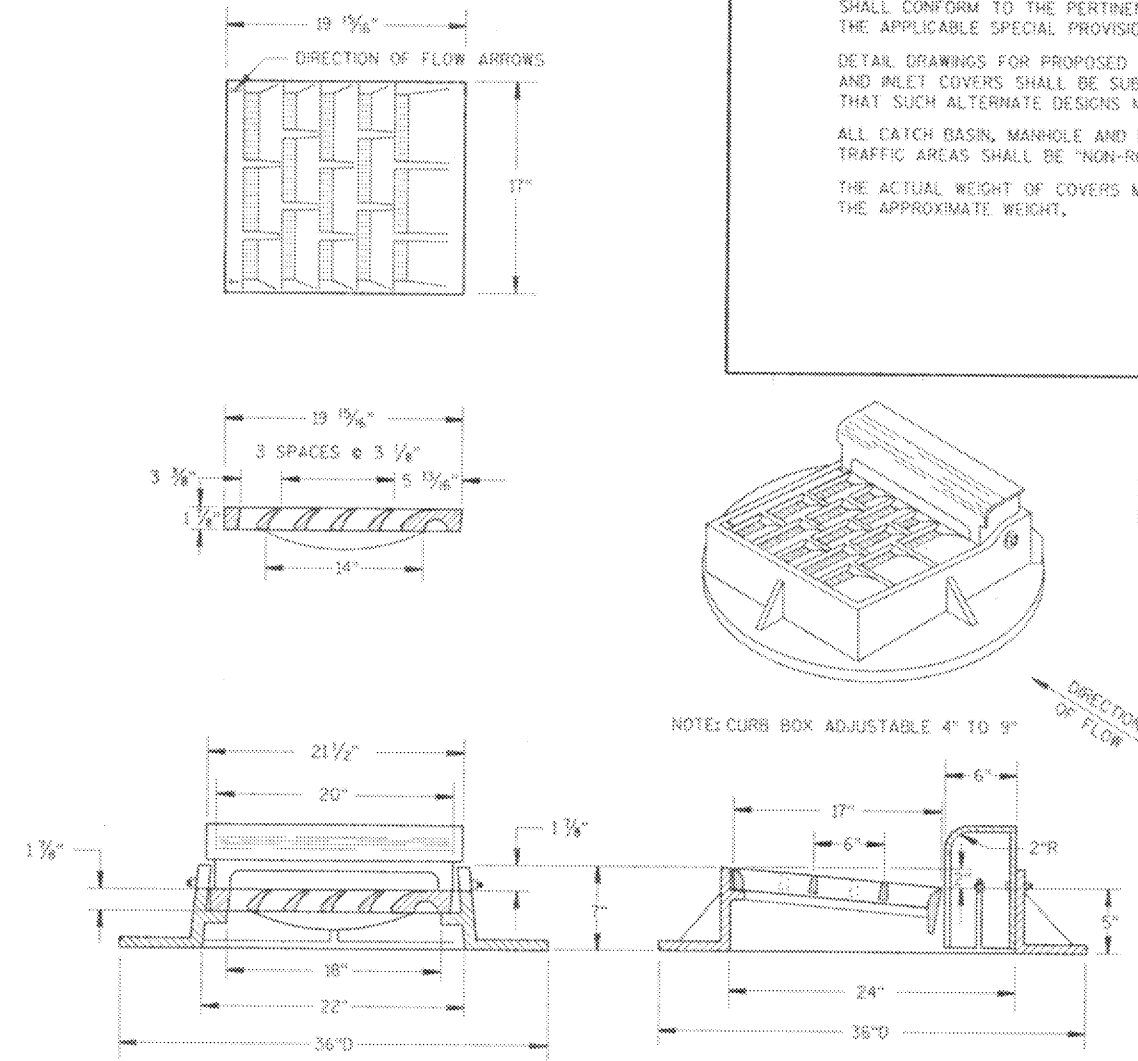
TYPE "H"
(APPROXIMATE WEIGHT 510 LBS.)



SPECIAL GRATE NO. 1
(APPROXIMATE WEIGHT 175 LBS.)
(NOTE AS TYPE H) ON DRAINAGE TABLE)

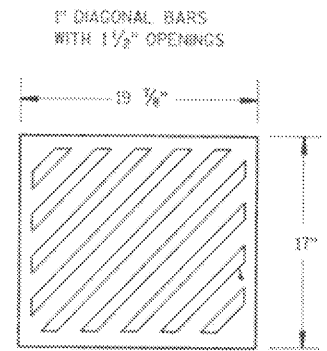


MOUNTABLE CURB BOX FOR TYPES "A" & "H" COVERS

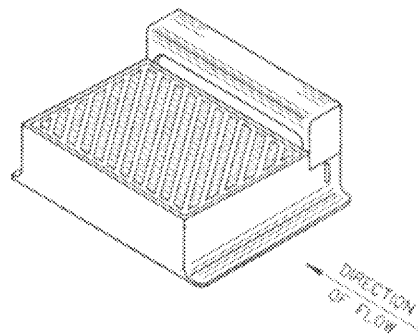


NOTE: CURB BOX ADJUSTABLE 4" TO 9"

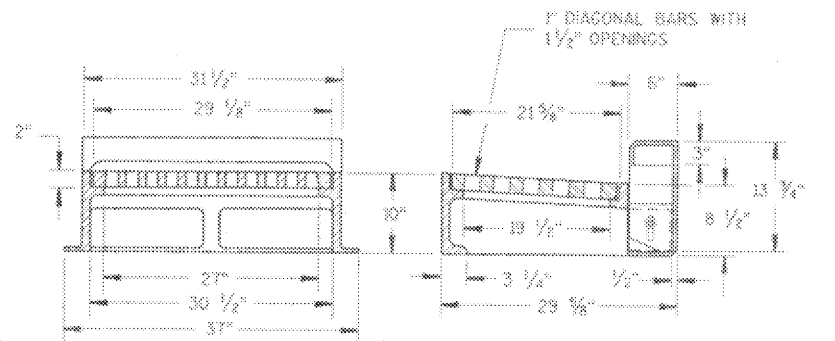
TYPE "A"
(APPROXIMATE WEIGHT 410 LBS.)



SPECIAL GRATE NO. 1
(APPROXIMATE WEIGHT 85 LBS.)
(NOTE AS TYPE A) ON DRAINAGE TABLE)

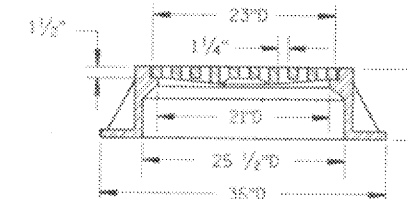
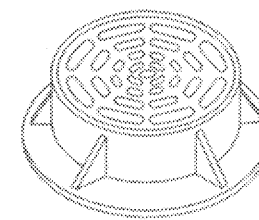


DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"
(APPROXIMATE WEIGHT 650 LBS.)



TYPE "C"
(APPROXIMATE WEIGHT 365 LBS.)

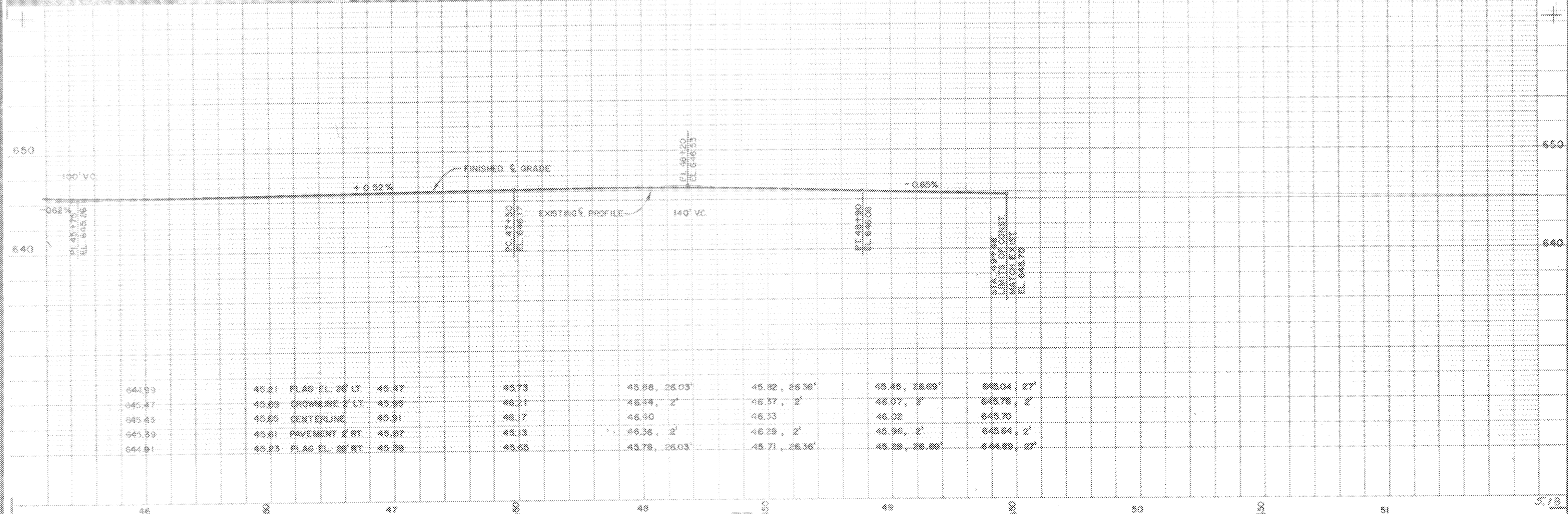
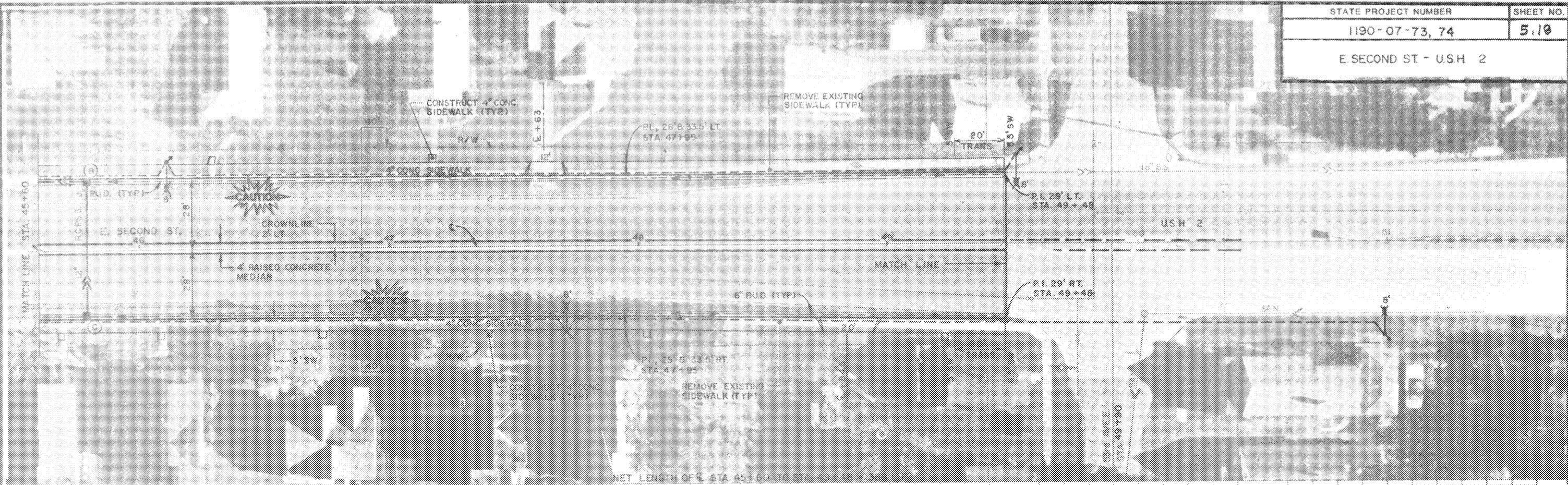
INLET COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

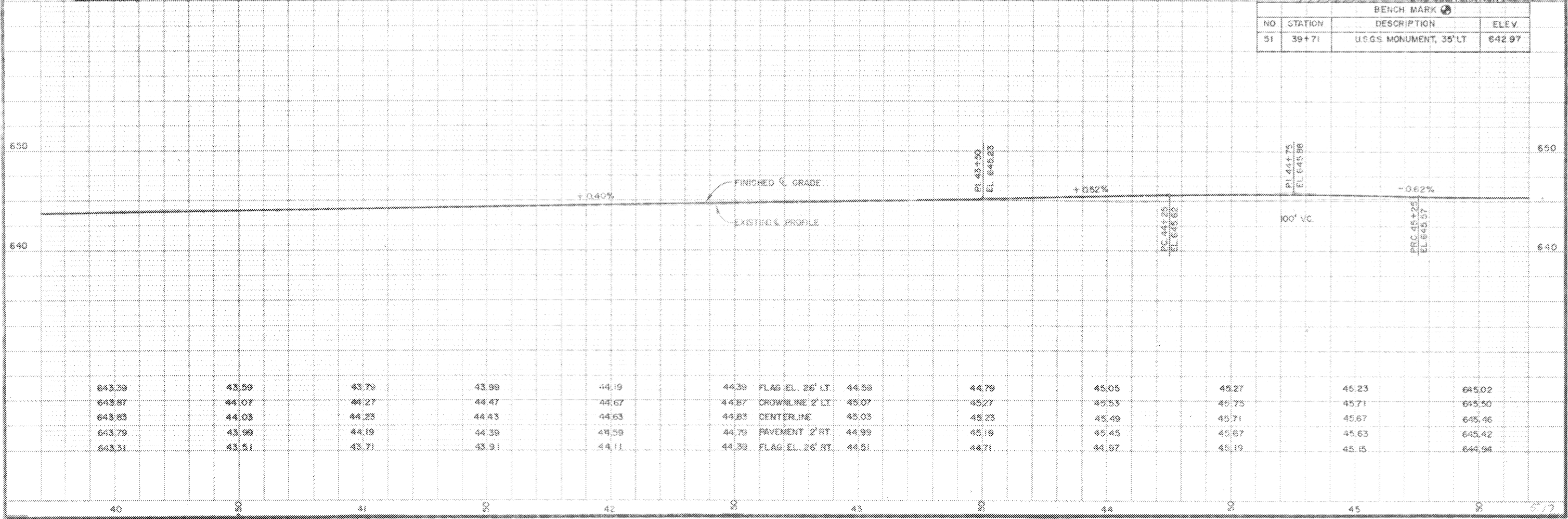
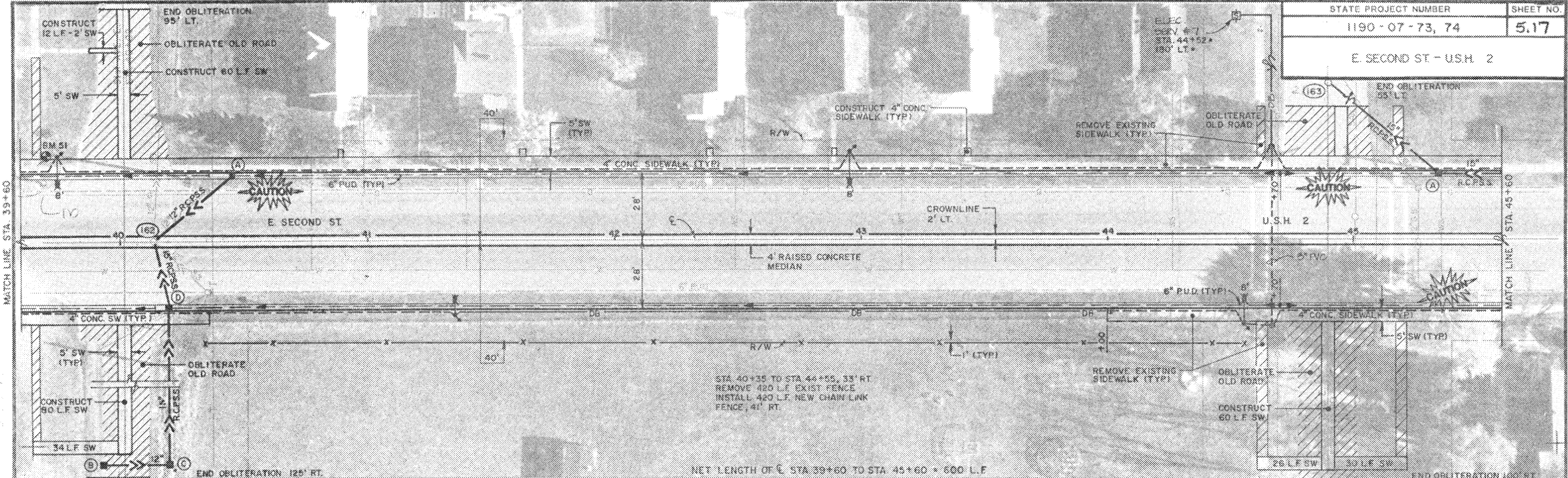
APPROVED
8-11-88
DATE

[Signature]
STATE DESIGN ENGINEER FOR HWYS
FHWA

STATE PROJECT NUMBER	SHEET NO.
1190-07-73, 74	510
E SECOND ST - USH 2	



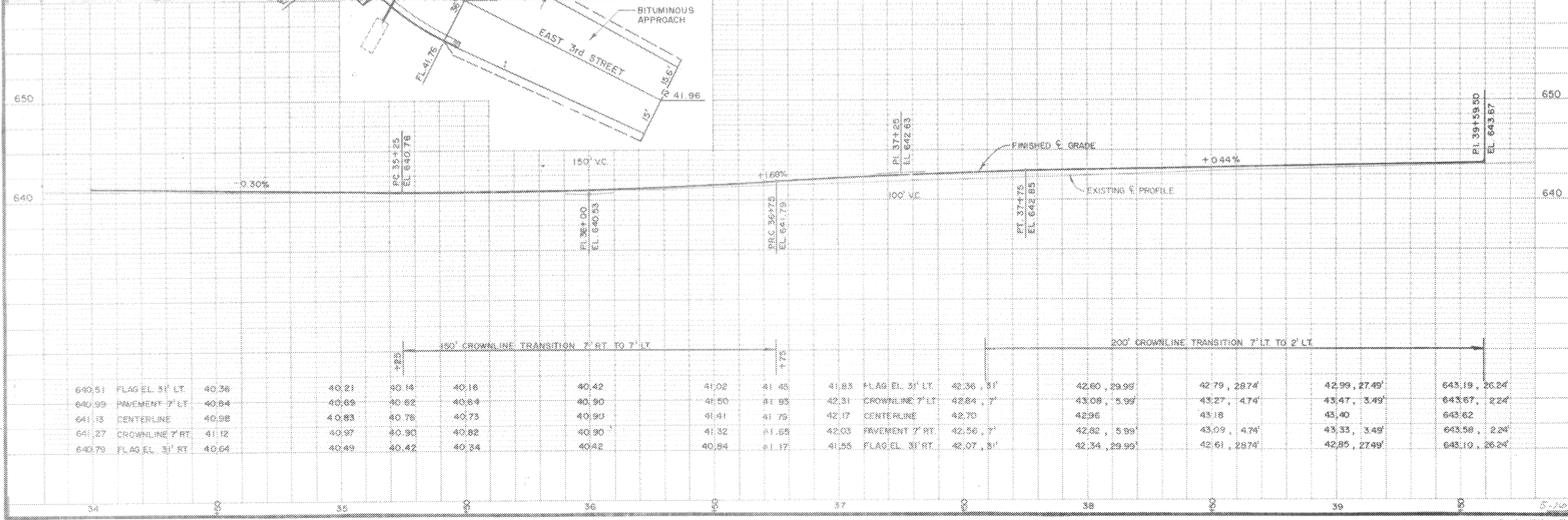
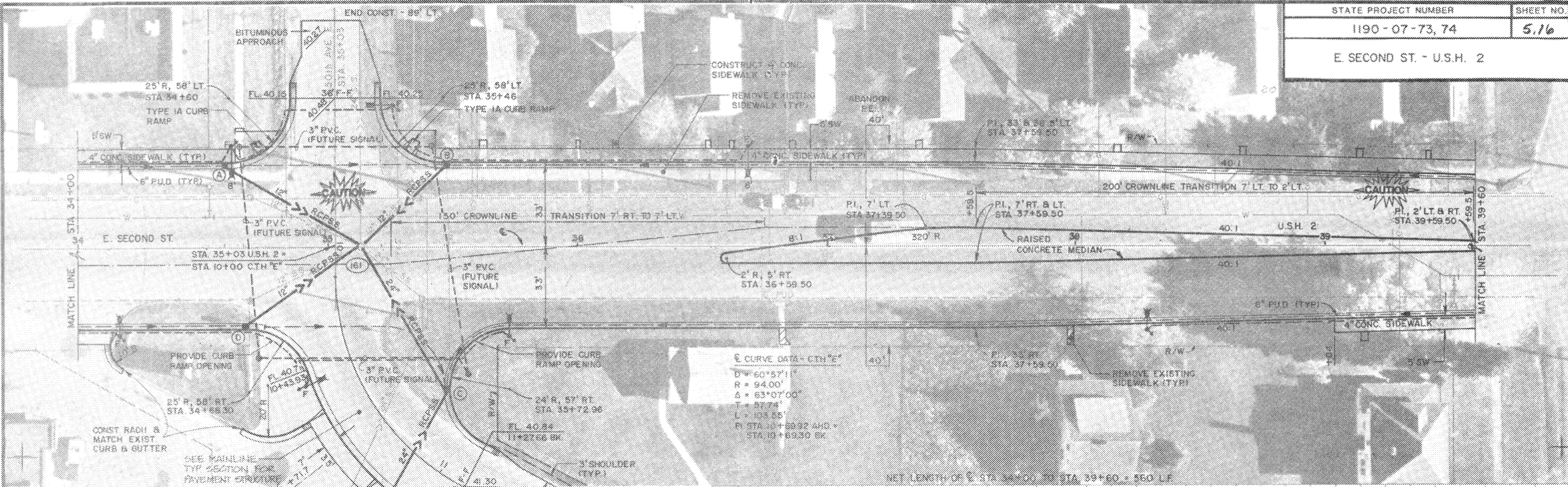
STATE PROJECT NUMBER	SHEET NO.
1190-07-73, 74	5.17
E. SECOND ST - U.S.H. 2	



643.39	43.59	43.79	43.99	44.19	44.39	FLAG EL. 26' LT.	44.59	44.79	45.05	45.27	45.23	645.02
643.87	44.07	44.27	44.47	44.67	44.87	CROWLINE 2' LT.	45.07	45.27	45.53	45.75	45.71	645.50
643.85	44.03	44.23	44.43	44.63	44.83	CENTERLINE	45.03	45.23	45.49	45.71	45.67	645.46
643.79	43.99	44.19	44.39	44.59	44.79	PAVEMENT 2' RT.	44.99	45.19	45.45	45.67	45.63	645.42
643.31	43.51	43.71	43.91	44.11	44.39	FLAG EL. 26' RT.	44.51	44.71	44.97	45.19	45.15	644.94

47-159

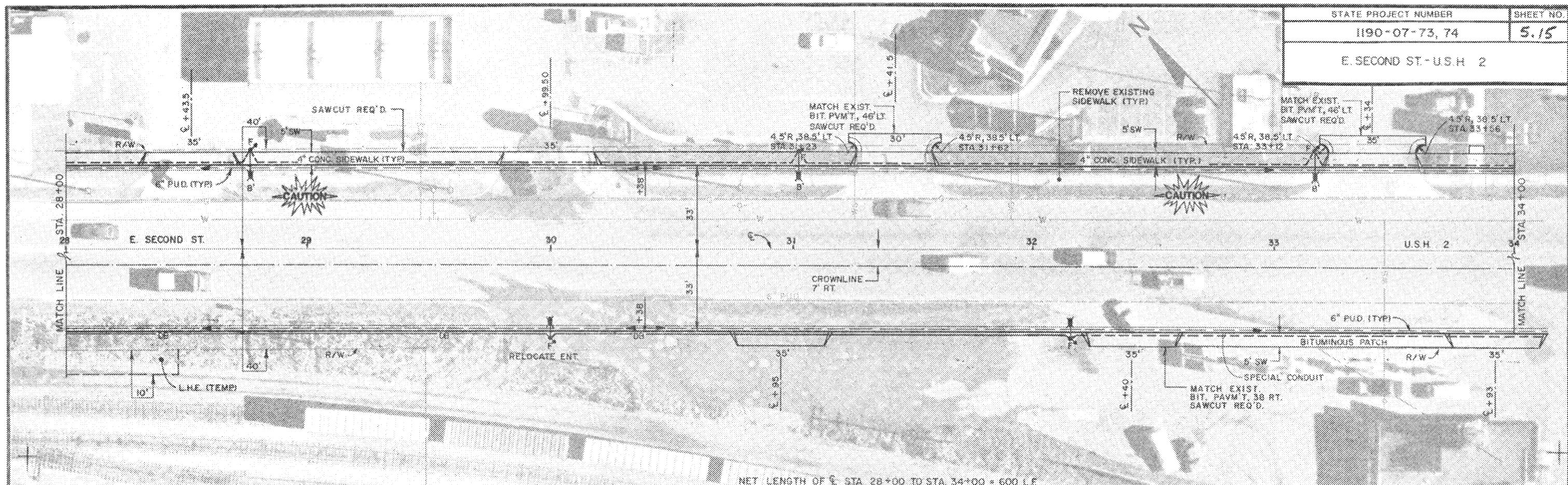
STATE PROJECT NUMBER	SHEET NO.
1190-07-73, 74	5.16
E. SECOND ST. - U.S.H. 2	



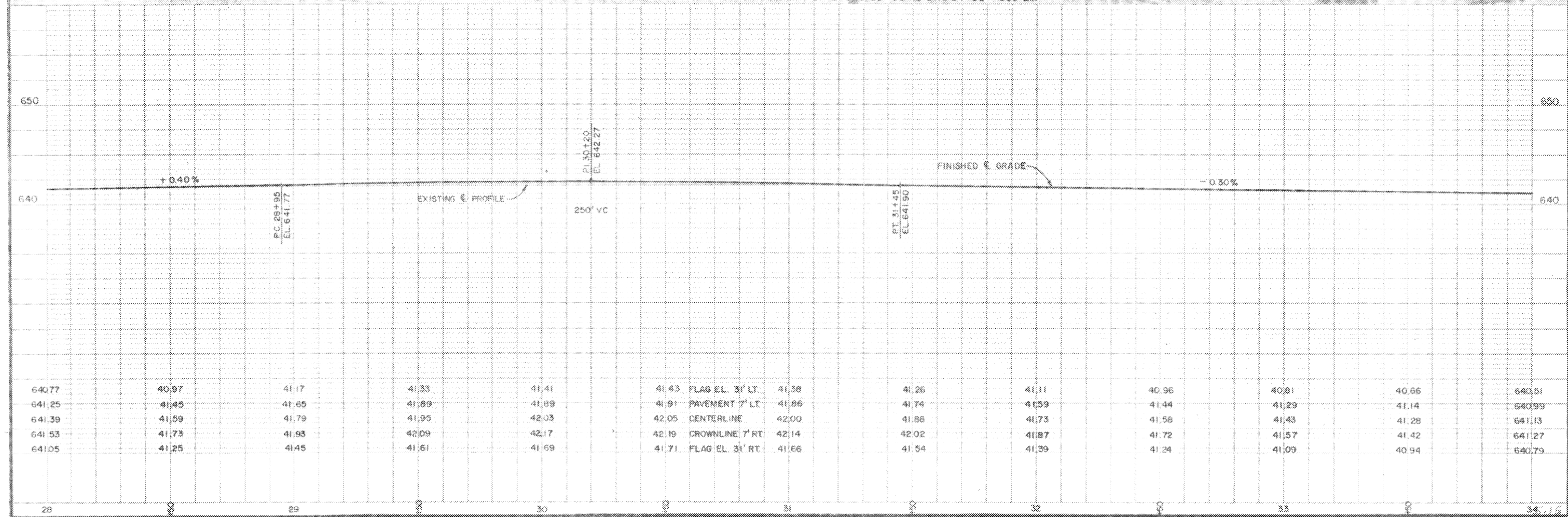
150' CROWNLINE TRANSITION 7' RT TO 7' LT										200' CROWNLINE TRANSITION 7' LT TO 2' LT					
Station	Flag EL 3' LT	Pavement 7' LT	Centerline	Crownline 7' RT	Flag EL 3' RT	Centerline	Pavement 7' RT	Flag EL 3' LT	Crownline 7' LT	Centerline	Pavement 7' RT	Flag EL 3' RT	Centerline	Pavement 7' RT	
34+51	40.36	40.84	40.88	41.12	40.64	40.98	41.12	42.36	42.84	42.70	42.56	42.07	42.34	42.85	
34+59	40.38	40.86	40.90	41.14	40.66	41.00	41.14	42.38	42.86	42.72	42.58	42.09	42.36	42.87	
34+67	40.40	40.88	40.92	41.16	40.68	41.02	41.16	42.40	42.88	42.74	42.60	42.11	42.38	42.89	
34+75	40.42	40.90	40.94	41.18	40.70	41.04	41.18	42.42	42.90	42.76	42.62	42.13	42.40	42.91	
34+83	40.44	40.92	40.96	41.20	40.72	41.06	41.20	42.44	42.92	42.78	42.64	42.15	42.42	42.93	
34+91	40.46	40.94	40.98	41.22	40.74	41.08	41.22	42.46	42.94	42.80	42.66	42.17	42.44	42.95	
34+99	40.48	40.96	41.00	41.24	40.76	41.10	41.24	42.48	42.96	42.82	42.68	42.19	42.46	42.97	
35+07	40.50	40.98	41.02	41.26	40.78	41.12	41.26	42.50	42.98	42.84	42.70	42.21	42.48	42.99	
35+15	40.52	41.00	41.04	41.28	40.80	41.14	41.28	42.52	43.00	42.86	42.72	42.23	42.50	43.01	
35+23	40.54	41.02	41.06	41.30	40.82	41.16	41.30	42.54	43.02	42.88	42.74	42.25	42.52	43.03	
35+31	40.56	41.04	41.08	41.32	40.84	41.18	41.32	42.56	43.04	42.90	42.76	42.27	42.54	43.05	
35+39	40.58	41.06	41.10	41.34	40.86	41.20	41.34	42.58	43.06	42.92	42.78	42.29	42.56	43.07	
35+47	40.60	41.08	41.12	41.36	40.88	41.22	41.36	42.60	43.08	42.94	42.80	42.31	42.58	43.09	
35+55	40.62	41.10	41.14	41.38	40.90	41.24	41.38	42.62	43.10	42.96	42.82	42.33	42.60	43.11	
35+63	40.64	41.12	41.16	41.40	40.92	41.26	41.40	42.64	43.12	42.98	42.84	42.35	42.62	43.13	
35+71	40.66	41.14	41.18	41.42	40.94	41.28	41.42	42.66	43.14	43.00	42.86	42.37	42.64	43.15	
35+79	40.68	41.16	41.20	41.44	40.96	41.30	41.44	42.68	43.16	43.02	42.88	42.39	42.66	43.17	
35+87	40.70	41.18	41.22	41.46	40.98	41.32	41.46	42.70	43.18	43.04	42.90	42.41	42.68	43.19	
35+95	40.72	41.20	41.24	41.48	41.00	41.34	41.48	42.72	43.20	43.06	42.92	42.43	42.70	43.21	
36+03	40.74	41.22	41.26	41.50	41.02	41.36	41.50	42.74	43.22	43.08	42.94	42.45	42.72	43.23	
36+11	40.76	41.24	41.28	41.52	41.04	41.38	41.52	42.76	43.24	43.10	42.96	42.47	42.74	43.25	
36+19	40.78	41.26	41.30	41.54	41.06	41.40	41.54	42.78	43.26	43.12	42.98	42.49	42.76	43.27	
36+27	40.80	41.28	41.32	41.56	41.08	41.42	41.56	42.80	43.28	43.14	43.00	42.51	42.78	43.29	
36+35	40.82	41.30	41.34	41.58	41.10	41.44	41.58	42.82	43.30	43.16	43.02	42.53	42.80	43.31	
36+43	40.84	41.32	41.36	41.60	41.12	41.46	41.60	42.84	43.32	43.18	43.04	42.55	42.82	43.33	
36+51	40.86	41.34	41.38	41.62	41.14	41.48	41.62	42.86	43.34	43.20	43.06	42.57	42.84	43.35	
36+59	40.88	41.36	41.40	41.64	41.16	41.50	41.64	42.88	43.36	43.22	43.08	42.59	42.86	43.37	
36+67	40.90	41.38	41.42	41.66	41.18	41.52	41.66	42.90	43.38	43.24	43.10	42.61	42.88	43.39	
36+75	40.92	41.40	41.44	41.68	41.20	41.54	41.68	42.92	43.40	43.26	43.12	42.63	42.90	43.41	
36+83	40.94	41.42	41.46	41.70	41.22	41.56	41.70	42.94	43.42	43.28	43.14	42.65	42.92	43.43	
36+91	40.96	41.44	41.48	41.72	41.24	41.58	41.72	42.96	43.44	43.30	43.16	42.67	42.94	43.45	
36+99	40.98	41.46	41.50	41.74	41.26	41.60	41.74	42.98	43.46	43.32	43.18	42.69	42.96	43.47	
37+07	41.00	41.48	41.52	41.76	41.28	41.62	41.76	43.00	43.48	43.34	43.20	42.71	42.98	43.49	
37+15	41.02	41.50	41.54	41.78	41.30	41.64	41.78	43.02	43.50	43.36	43.22	42.73	43.00	43.51	
37+23	41.04	41.52	41.56	41.80	41.32	41.66	41.80	43.04	43.52	43.38	43.24	42.75	43.02	43.53	
37+31	41.06	41.54	41.58	41.82	41.34	41.68	41.82	43.06	43.54	43.40	43.26	42.77	43.04	43.55	
37+39	41.08	41.56	41.60	41.84	41.36	41.70	41.84	43.08	43.56	43.42	43.28	42.79	43.06	43.57	
37+47	41.10	41.58	41.62	41.86	41.38	41.72	41.86	43.10	43.58	43.44	43.30	42.81	43.08	43.59	
37+55	41.12	41.60	41.64	41.88	41.40	41.74	41.88	43.12	43.60	43.46	43.32	42.83	43.10	43.61	
37+63	41.14	41.62	41.66	41.90	41.42	41.76	41.90	43.14	43.62	43.48	43.34	42.85	43.12	43.63	
37+71	41.16	41.64	41.68	41.92	41.44	41.78	41.92	43.16	43.64	43.50	43.36	42.87	43.14	43.65	
37+79	41.18	41.66	41.70	41.94	41.46	41.80	41.94	43.18	43.66	43.52	43.38	42.89	43.16	43.67	
37+87	41.20	41.68	41.72	41.96	41.48	41.82	41.96	43.20	43.68	43.54	43.40	42.91	43.18	43.69	
37+95	41.22	41.70	41.74	41.98	41.50	41.84	41.98	43.22	43.70	43.56	43.42	42.93	43.20	43.71	
38+03	41.24	41.72	41.76	42.00	41.52	41.86	42.00	43.24	43.72	43.58	43.44	42.95	43.22	43.73	
38+11	41.26	41.74	41.78	42.02	41.54	41.88	42.02	43.26	43.74	43.60	43.46	42.97	43.24	43.75	
38+19	41.28	41.76	41.80	42.04	41.56	41.90	42.04	43.28	43.76	43.62	43.48	42.99	43.26	43.77	
38+27	41.30	41.78	41.82	42.06	41.58	41.92	42.06	43.30	43.78	43.64	43.50	43.01	43.28	43.79	
38+35	41.32	41.80	41.84	42.08	41.60	41.94	42.08	43.32	43.80	43.66	43.52	43.03	43.30	43.81	
38+43	41.34	41.82	41.86	42.10	41.62	41.96	42.10	43.34	43.82	43.68	43.54	43.05	43.32	43.83	
38+51	41.36	41.84	41.88	42.12	41.64	41.98	42.12	43.36	43.84	43.70	43.56	43.07	43.34	43.85	
38+59	41.38	41.86	41.90	42.14	41.66	42.00	42.14	43.38	43.86	43.72	43.58	43.09	43.36	43.87	
38+67	41.40	41.88	41.92	42.16	41.68	42.02	42.16	43.40	43.88	43.74	43.60	43.11	43.38	43.89	
38+75	41.42	41.90	41.94	42.18	41.70	42.04	42.18	43.42	43.90	43.76	43.62	43.13	43.40	43.91	
38+83	41.44	41.92	41.96	42.20	41.72	42.06	42.20	43.44	43.92	43.78	43.64	43.15	43.42	43.93	
38+91	41.46	41.94	41.98	42.22	41.74	42.08	42.22	43.46	43.94	43.80	43.66	43.17	43.44	43.95	
38+99	41.48	41.96	42.00	42.24	41.76	42.10	42.24	43.48	43.96	43.82	43.68	43.19	43.46	43.97	
39+07	41.50	41.98	42.02	42.26	41.78	42.12	42.26	43.50	43.98	43.84	43.70	43.21	43.48	43.99	
39+15	41.52	42.00	42.04	42.28	41.80	42.14	42.28	43.52	44.00	43.86	43.72	43.23	43.50	44.01	
39+23	41.54	42.02	42.06	42.30	41.82	42.16	42.30	43.54	44.02	43.88	43.74	43.25	43.52	44.03	
39+31	41.56	42.04	42.08	42.32	41.84	42.18	42.32	43.56	44.04	43.90	43.76	43.27	43.54	44.05	
39+39	41.58	42.06	42.10	42.34	41.86	42.20	42.34	43.58	44.06	43.92	43.78	43.29	43.56	44.07	
39+47	41.60	42.08	42.12	42.36	41.88	42.22	42.36								

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STATE PROJECT NUMBER	SHEET NO.
1190-07-73, 74	5.15
E. SECOND ST.-U.S.H. 2	

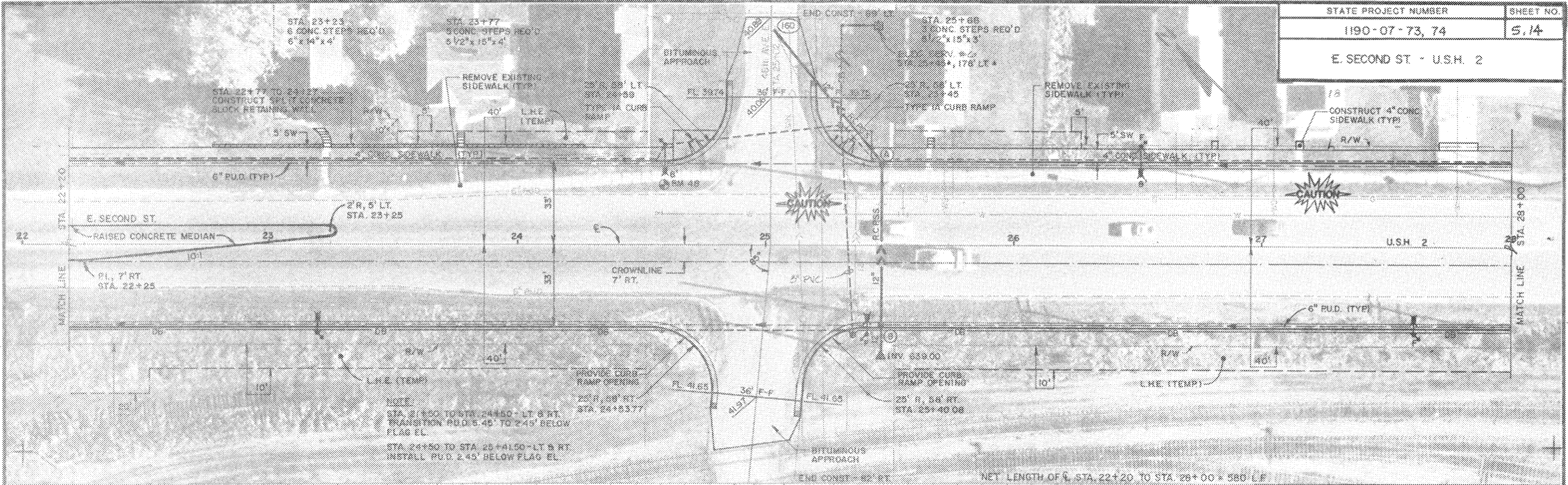


NET LENGTH OF STA. 28+00 TO STA. 34+00 = 600 LF



640.77	40.97	41.17	41.33	41.41	41.43 FLAG EL. 3' LT.	41.38	41.26	41.11	40.98	40.81	40.66	640.51
641.25	41.45	41.65	41.89	41.89	41.91 PAVEMENT 7' LT.	41.86	41.74	41.59	41.44	41.29	41.14	640.99
641.39	41.59	41.79	41.95	42.03	42.05 CENTERLINE	42.00	41.88	41.73	41.58	41.43	41.28	641.13
641.53	41.73	41.93	42.09	42.17	42.19 CROWNLINE 7' RT.	42.14	42.02	41.87	41.72	41.57	41.42	641.27
641.05	41.25	41.45	41.61	41.69	41.71 FLAG EL. 3' RT.	41.66	41.54	41.39	41.24	41.09	40.94	640.79

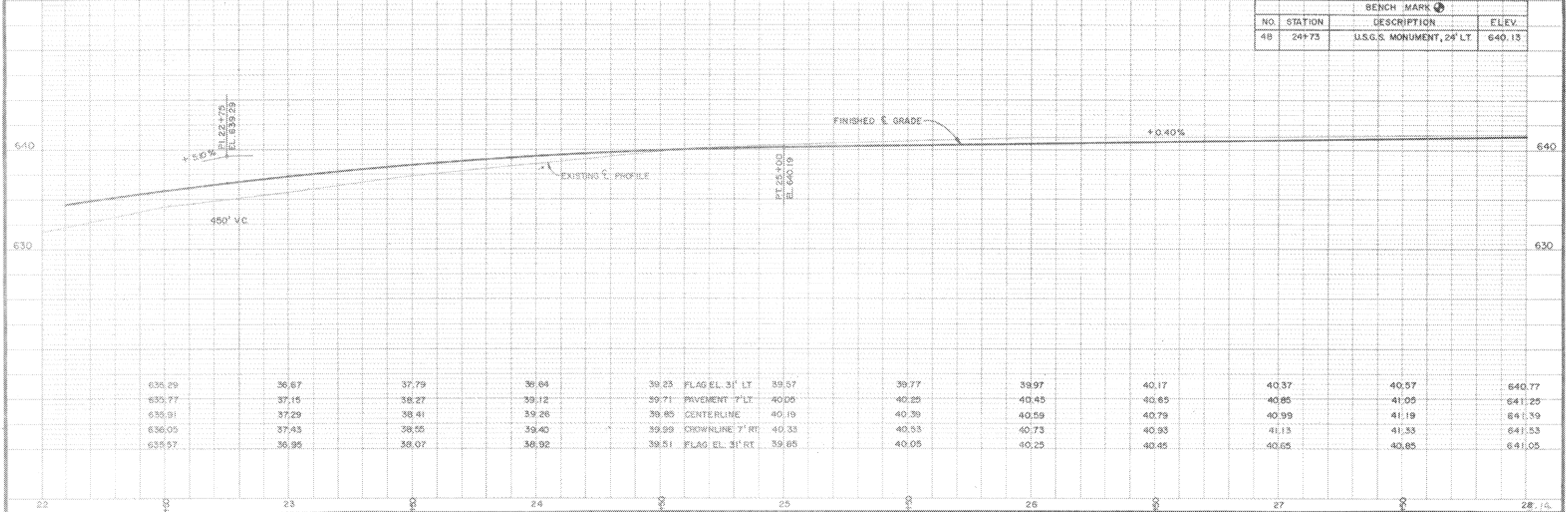
STATE PROJECT NUMBER	SHEET NO.
1190-07-73, 74	5, 14
E. SECOND ST - U.S.H. 2	



NOTE:
 STA. 24+50 TO STA. 24+80 - LT & RT
 TRANSITION PUD'S 45' TO 2'-45' BELOW
 FLAG EL.
 STA. 24+50 TO STA. 25+40 - LT & RT
 INSTALL PUD 2'-45' BELOW FLAG EL.

NET LENGTH OF E. STA. 22+20 TO STA. 26+00 = 380' L.F.

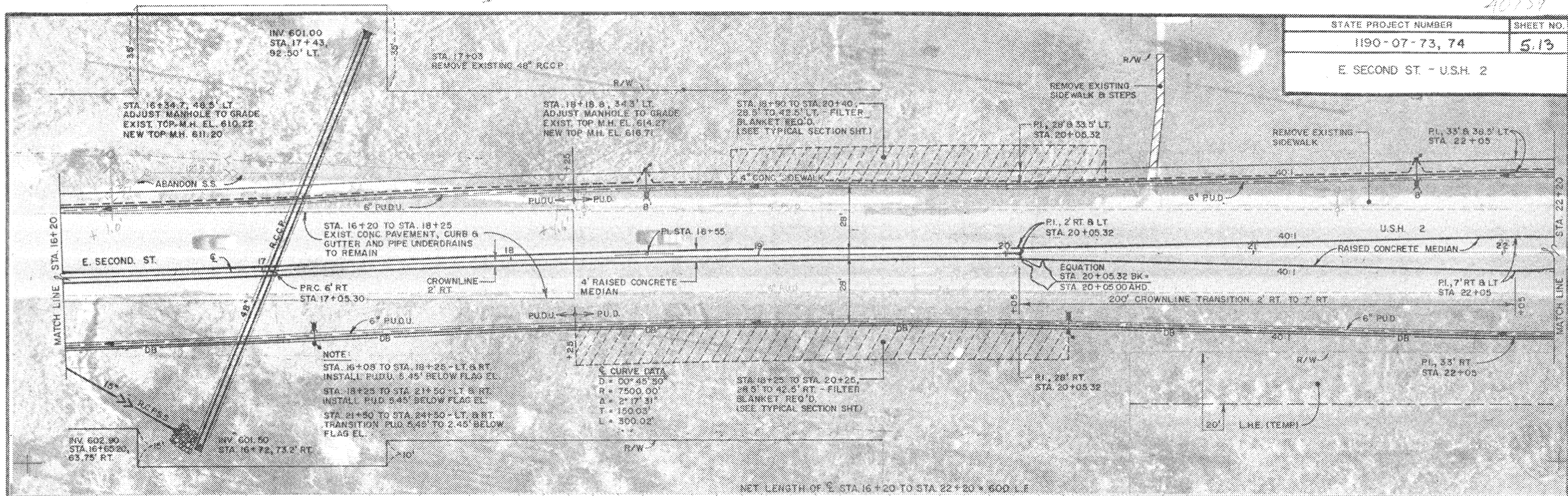
BENCH MARK			
NO.	STATION	DESCRIPTION	ELEV.
48	24+73	U.S.G.S. MONUMENT, 24' LT	640.13



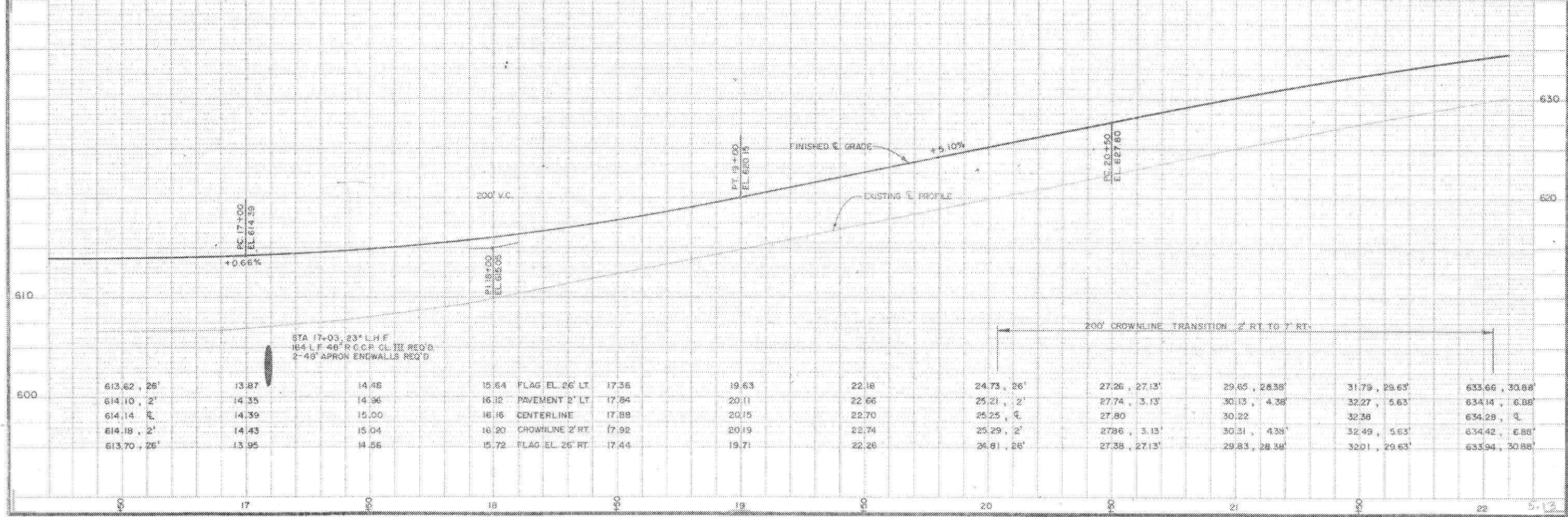
635.29	36.87	37.79	38.64	39.23	FLAG EL. 3' LT	39.57	39.77	39.97	40.17	40.37	40.57	640.77
635.77	37.15	38.27	39.12	39.71	PAVEMENT 7' LT	40.05	40.25	40.45	40.65	40.85	41.05	641.25
635.91	37.29	38.41	39.26	39.85	CENTERLINE	40.19	40.39	40.59	40.79	40.99	41.19	641.39
636.05	37.43	38.55	39.40	39.99	CROWNLINE 7' RT	40.33	40.53	40.73	40.93	41.13	41.33	641.53
636.57	38.85	39.07	39.92	39.51	FLAG EL. 31' RT	39.85	40.05	40.25	40.45	40.65	40.85	641.05

40/59

STATE PROJECT NUMBER	SHEET NO.
1190-07-73, 74	5.13
E SECOND ST. - U.S.H. 2	



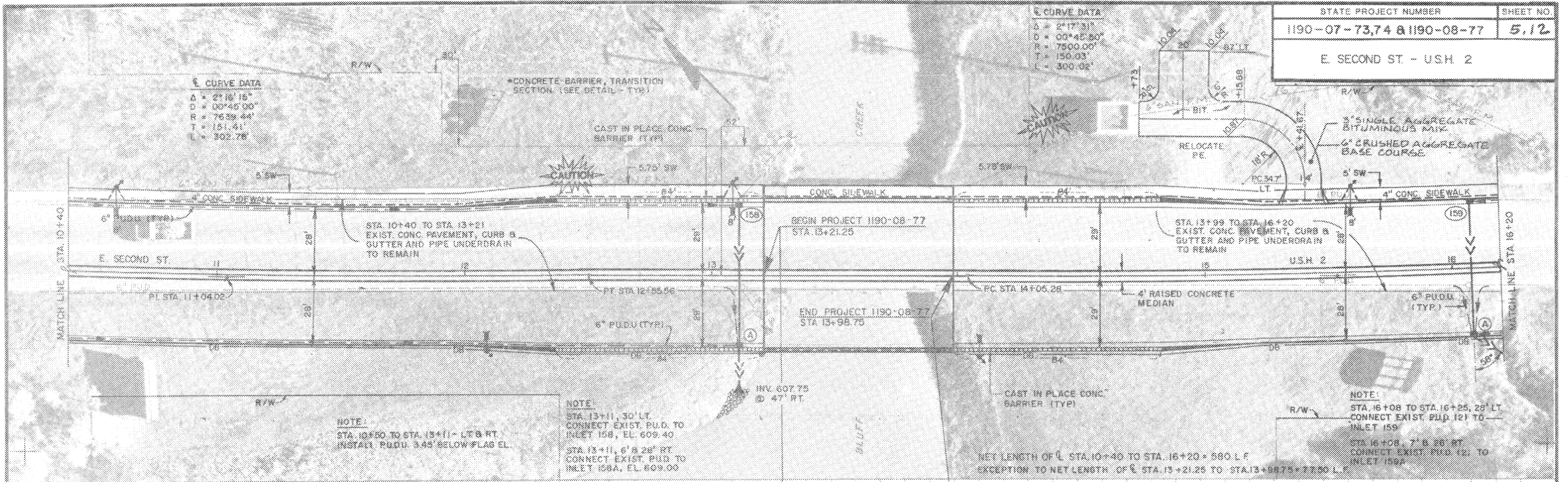
NET LENGTH OF E STA 16+20 TO STA 22+20 = 600 L.F.



STATE PROJECT NUMBER	SHEET NO.
1190-07-73,74 & 1190-08-77	5,12
E. SECOND ST - U.S.H. 2	

Curve Data
 Δ = 2°18'18"
 D = 00°45'00"
 R = 7639.44'
 T = 151.41'
 L = 302.76'

Curve Data
 Δ = 2°17'31"
 D = 02°45'30"
 R = 7500.00'
 T = 150.03'
 L = 300.32'

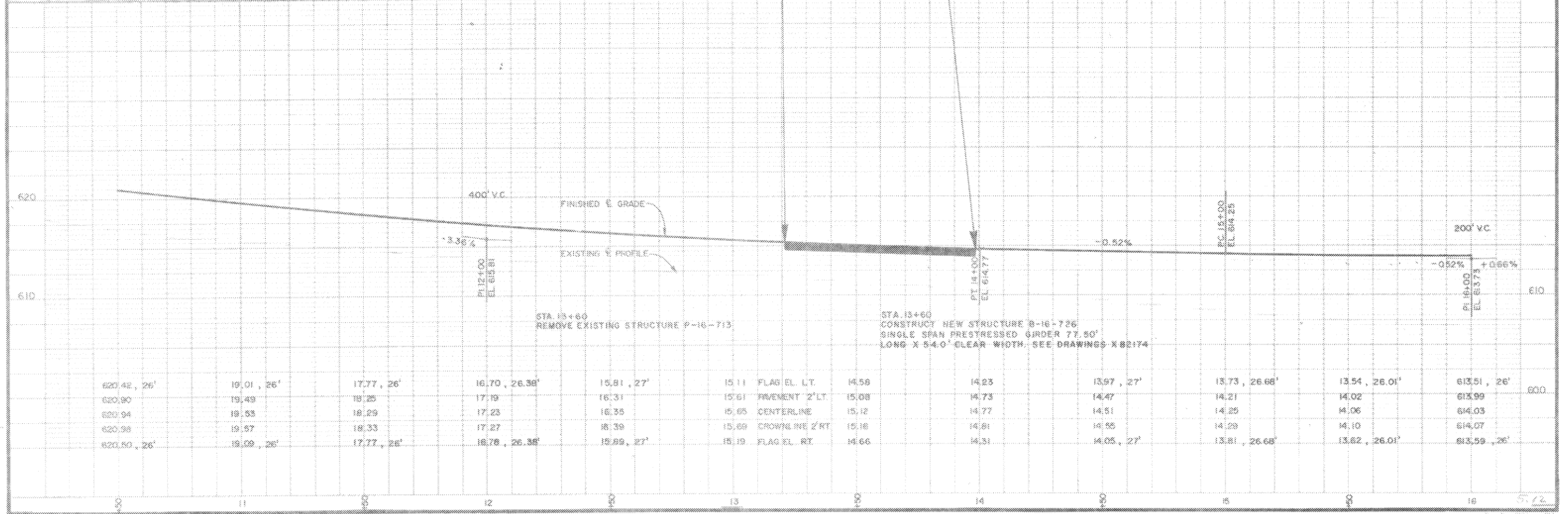


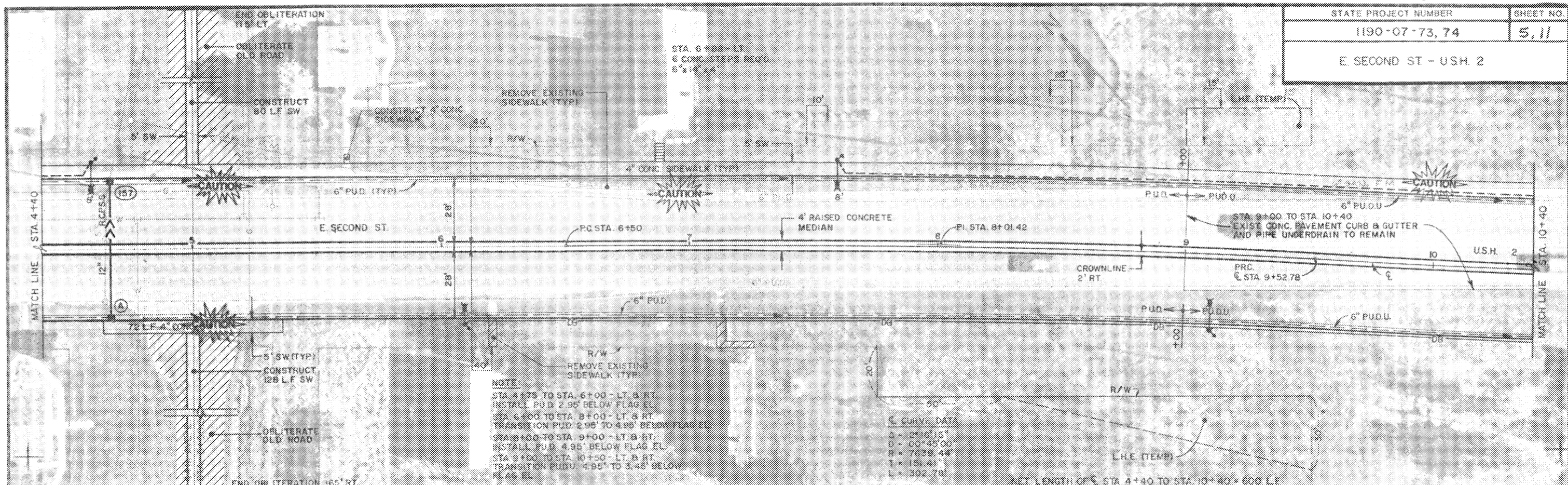
NOTE:
 STA 10+40 TO STA 13+21 - LT & RT
 INSTALL PUDU 3.45' BELOW FLAG EL.

NOTE:
 STA 13+11, 30' LT
 CONNECT EXIST. PUD. TO
 INLET 158, EL. 609.40
 STA 13+11, 6' & 28' RT
 CONNECT EXIST. PUD TO
 INLET 158A, EL. 609.00

NOTE:
 STA 16+08 TO STA 16+25, 20' LT
 CONNECT EXIST. PUD 121 TO
 INLET 159
 STA 16+08, 7' & 26' RT
 CONNECT EXIST. PUD 121 TO
 INLET 159A

NET LENGTH OF STA 10+40 TO STA 16+20 = 580 L.F.
 EXCEPTION TO NET LENGTH OF STA 13+21.25 TO STA 13+98.75 = 77.50 L.F.

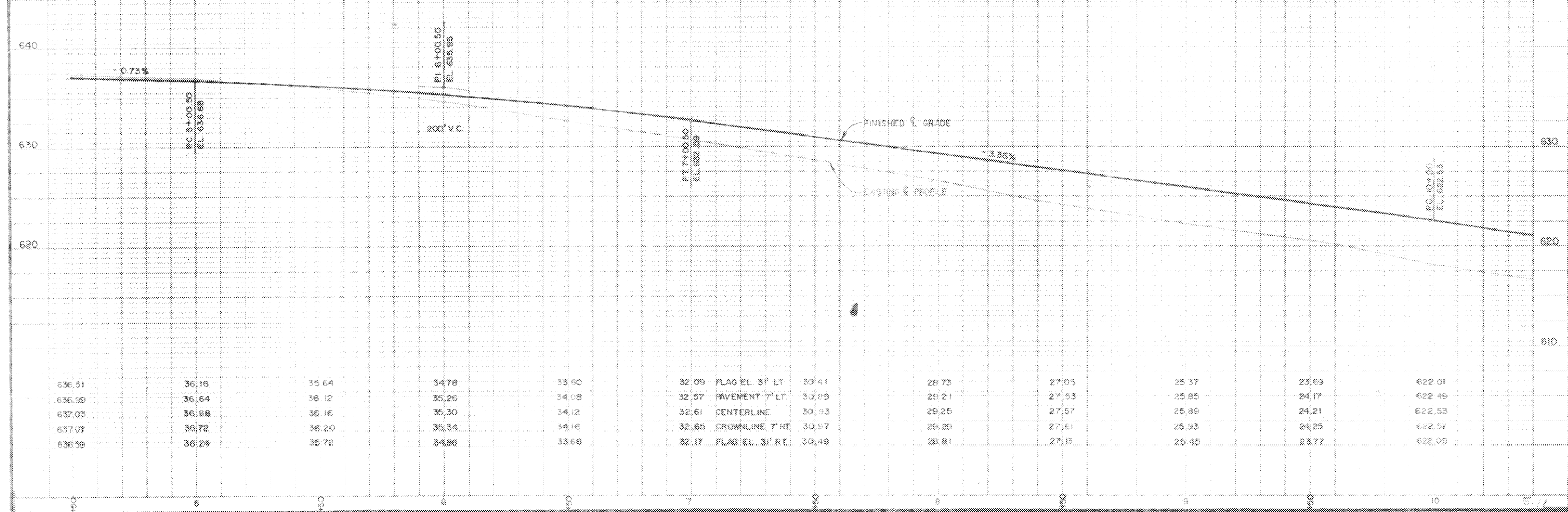


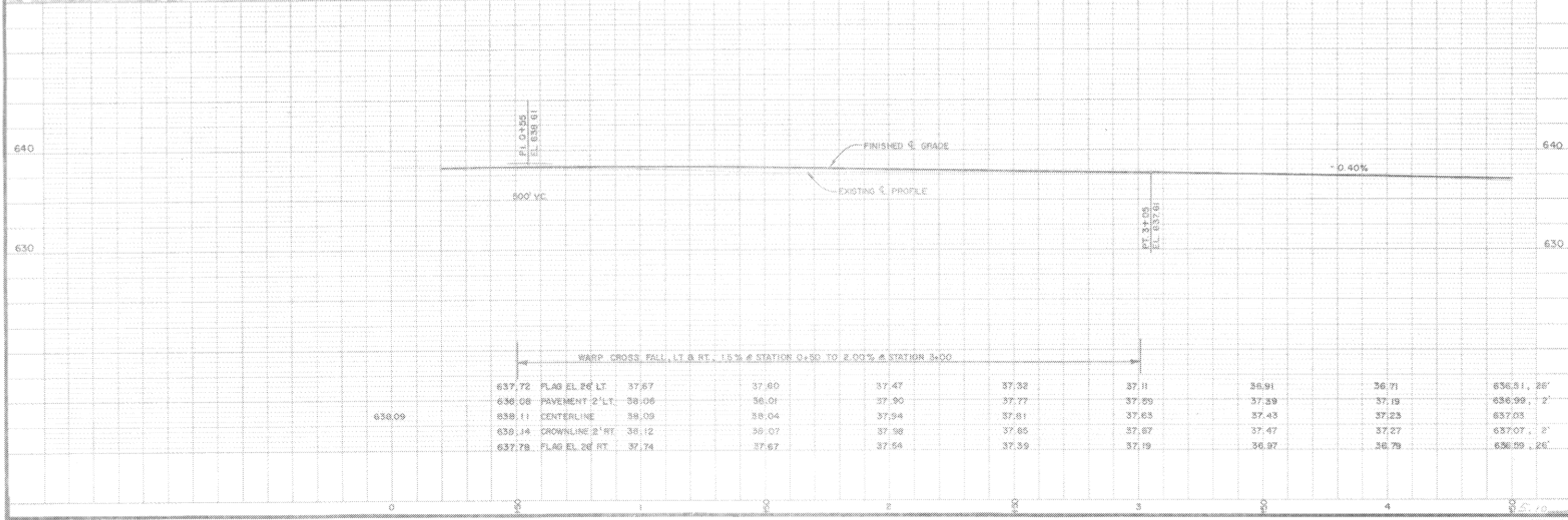
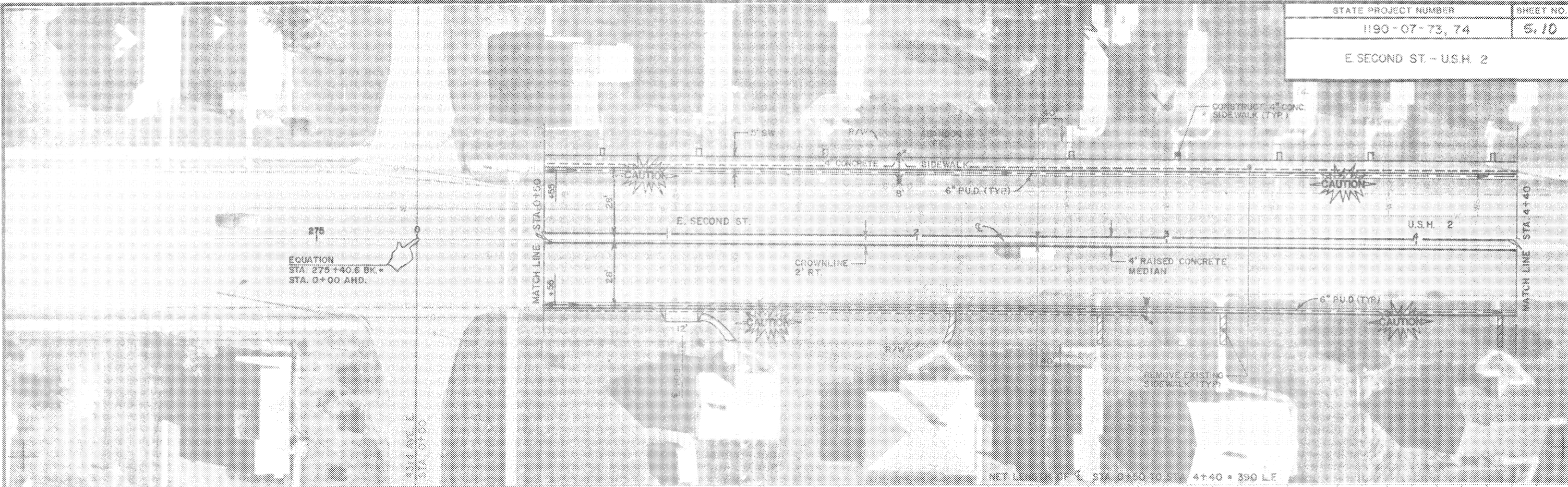


NOTE:
 STA 4+75 TO STA 6+00 - LT. & RT. INSTALL P.U.D. 2.95' BELOW FLAG EL.
 STA 6+00 TO STA 8+00 - LT. & RT. TRANSITION P.U.D. 2.95' TO 4.95' BELOW FLAG EL.
 STA 8+00 TO STA 9+00 - LT. & RT. INSTALL P.U.D. 4.95' BELOW FLAG EL.
 STA 9+00 TO STA 10+30 - LT. & RT. TRANSITION P.U.D. 4.95' TO 3.45' BELOW FLAG EL.

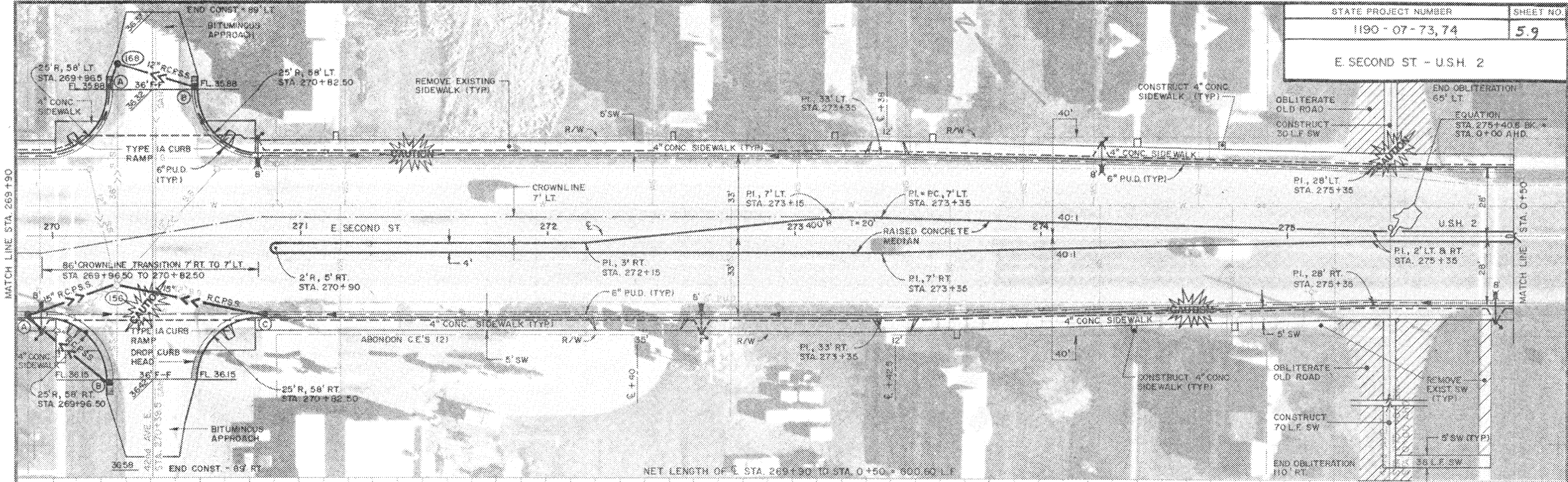
Curve Data
 Δ = 2°18'15"
 D = 00°45'00"
 R = 7639.44'
 T = 151.41'
 L = 302.78'

NET LENGTH OF STA 4+40 TO STA 10+40 = 600 LF

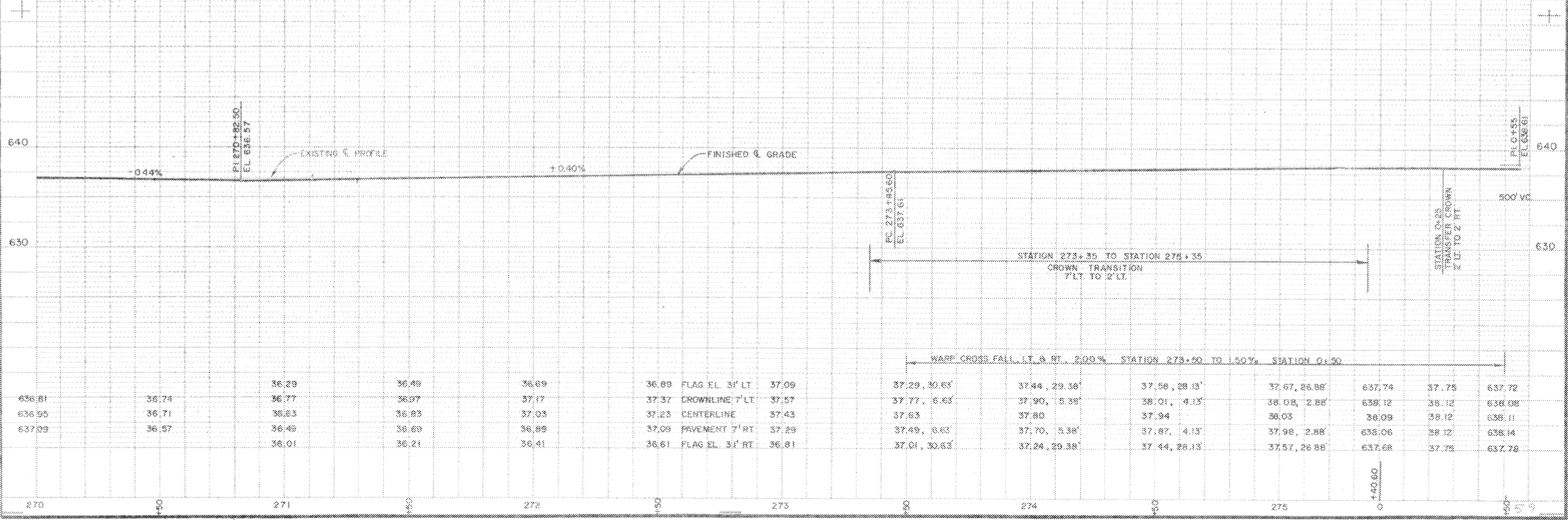




STATE PROJECT NUMBER	SHEET NO.
1190-07-73,74	5.9
E. SECOND ST - U.S.H. 2	



NET LENGTH OF E. STA. 269+30 TO STA. 0+50 = 600.60 LF

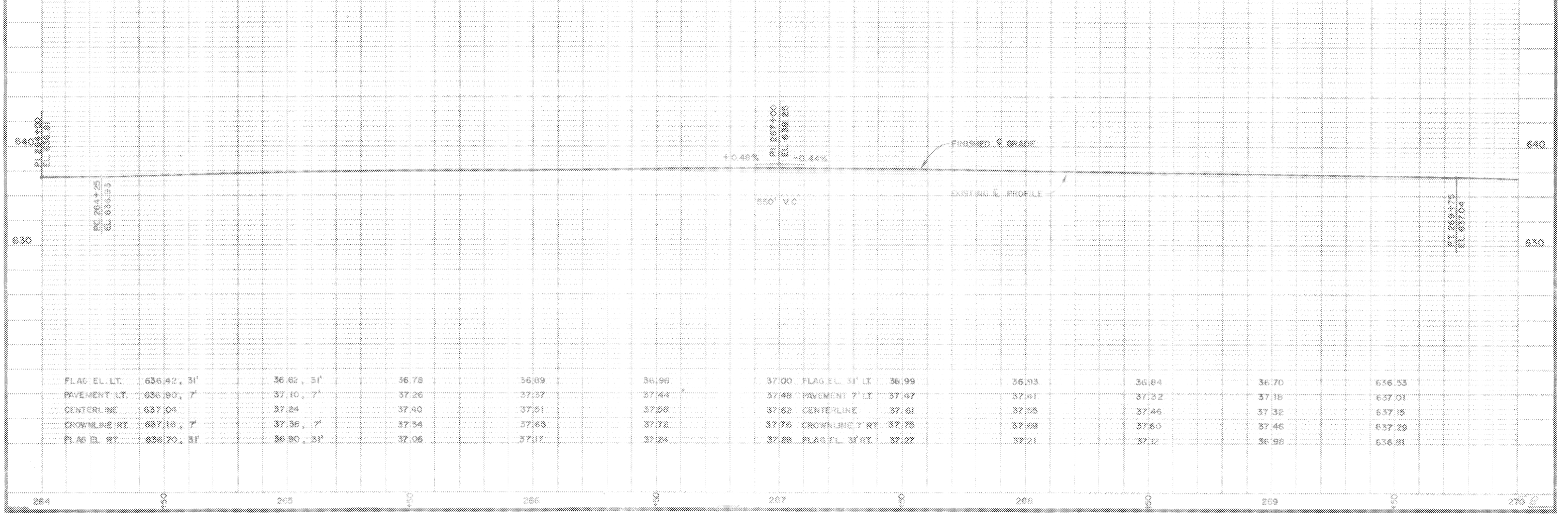
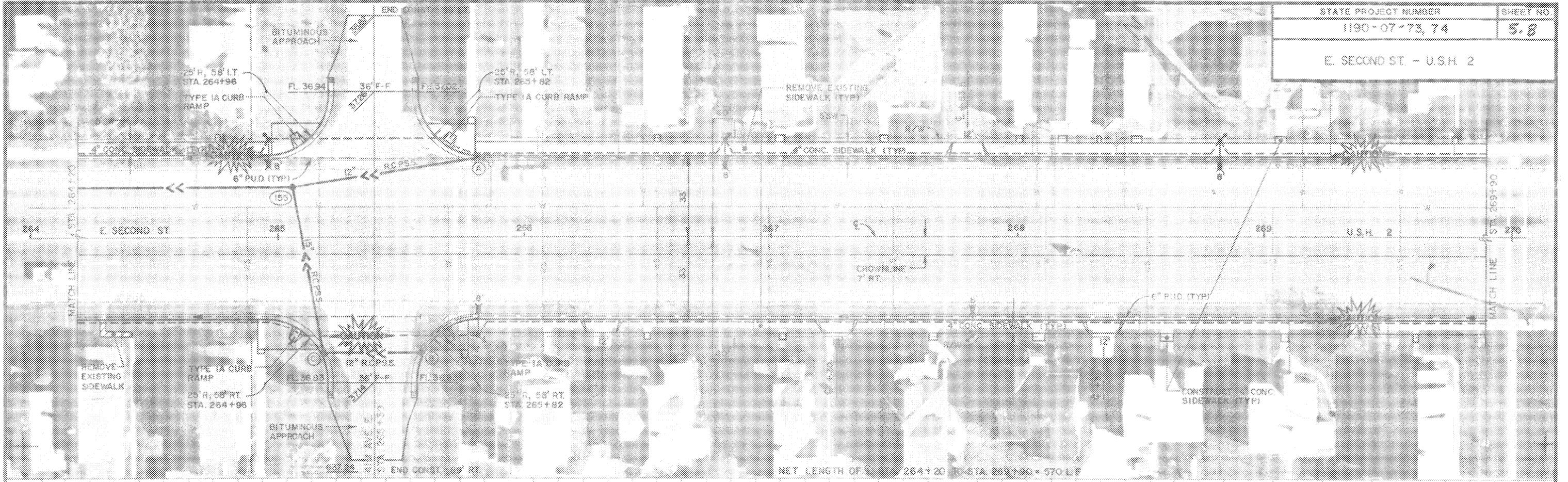


WARP CROSS FALL, LT. & RT., 2.00% STATION 273+60 TO 1.50%, STATION 0+50

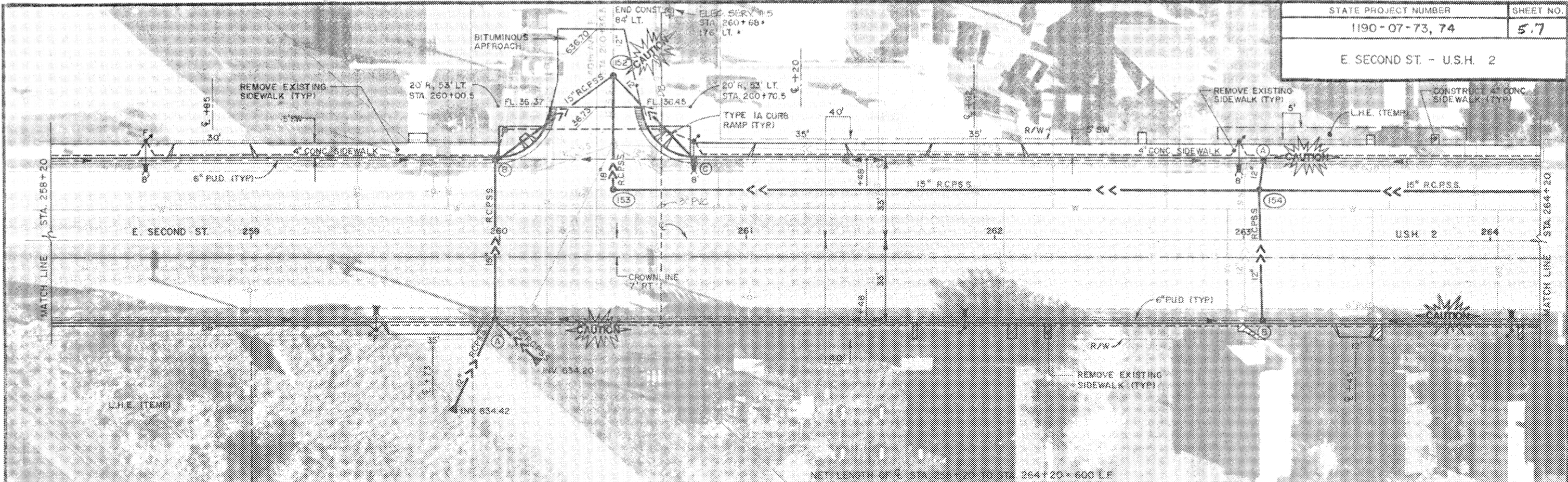
636.81	36.74	36.77	36.79	36.81	36.83	36.85	36.87	36.89	36.91	36.93	36.95	36.97	36.99	37.01	37.03	37.05	37.07	37.09	37.11	37.13	37.15	37.17	37.19	37.21	37.23	37.25	37.27	37.29	37.31	37.33	37.35	37.37	37.39	37.41	37.43	37.45	37.47	37.49	37.51	37.53	37.55	37.57	37.59	37.61	37.63	37.65	37.67	37.69	37.71	37.73	37.75	37.77	37.79	37.81	37.83	37.85	37.87	37.89	37.91	37.93	37.95	37.97	37.99	38.01	38.03	38.05	38.07	38.09	38.11	38.13	38.15	38.17	38.19	38.21	38.23	38.25	38.27	38.29	38.31	38.33	38.35	38.37	38.39	38.41	38.43	38.45	38.47	38.49	38.51	38.53	38.55	38.57	38.59	38.61	38.63	38.65	38.67	38.69	38.71	38.73	38.75	38.77	38.79	38.81	38.83	38.85	38.87	38.89	38.91	38.93	38.95	38.97	38.99	39.01	39.03	39.05	39.07	39.09	39.11	39.13	39.15	39.17	39.19	39.21	39.23	39.25	39.27	39.29	39.31	39.33	39.35	39.37	39.39	39.41	39.43	39.45	39.47	39.49	39.51	39.53	39.55	39.57	39.59	39.61	39.63	39.65	39.67	39.69	39.71	39.73	39.75	39.77	39.79	39.81	39.83	39.85	39.87	39.89	39.91	39.93	39.95	39.97	39.99	40.01	40.03	40.05	40.07	40.09	40.11	40.13	40.15	40.17	40.19	40.21	40.23	40.25	40.27	40.29	40.31	40.33	40.35	40.37	40.39	40.41	40.43	40.45	40.47	40.49	40.51	40.53	40.55	40.57	40.59	40.61	40.63	40.65	40.67	40.69	40.71	40.73	40.75	40.77	40.79	40.81	40.83	40.85	40.87	40.89	40.91	40.93	40.95	40.97	40.99	41.01	41.03	41.05	41.07	41.09	41.11	41.13	41.15	41.17	41.19	41.21	41.23	41.25	41.27	41.29	41.31	41.33	41.35	41.37	41.39	41.41	41.43	41.45	41.47	41.49	41.51	41.53	41.55	41.57	41.59	41.61	41.63	41.65	41.67	41.69	41.71	41.73	41.75	41.77	41.79	41.81	41.83	41.85	41.87	41.89	41.91	41.93	41.95	41.97	41.99	42.01	42.03	42.05	42.07	42.09	42.11	42.13	42.15	42.17	42.19	42.21	42.23	42.25	42.27	42.29	42.31	42.33	42.35	42.37	42.39	42.41	42.43	42.45	42.47	42.49	42.51	42.53	42.55	42.57	42.59	42.61	42.63	42.65	42.67	42.69	42.71	42.73	42.75	42.77	42.79	42.81	42.83	42.85	42.87	42.89	42.91	42.93	42.95	42.97	42.99	43.01	43.03	43.05	43.07	43.09	43.11	43.13	43.15	43.17	43.19	43.21	43.23	43.25	43.27	43.29	43.31	43.33	43.35	43.37	43.39	43.41	43.43	43.45	43.47	43.49	43.51	43.53	43.55	43.57	43.59	43.61	43.63	43.65	43.67	43.69	43.71	43.73	43.75	43.77	43.79	43.81	43.83	43.85	43.87	43.89	43.91	43.93	43.95	43.97	43.99	44.01	44.03	44.05	44.07	44.09	44.11	44.13	44.15	44.17	44.19	44.21	44.23	44.25	44.27	44.29	44.31	44.33	44.35	44.37	44.39	44.41	44.43	44.45	44.47	44.49	44.51	44.53	44.55	44.57	44.59	44.61	44.63	44.65	44.67	44.69	44.71	44.73	44.75	44.77	44.79	44.81	44.83	44.85	44.87	44.89	44.91	44.93	44.95	44.97	44.99	45.01	45.03	45.05	45.07	45.09	45.11	45.13	45.15	45.17	45.19	45.21	45.23	45.25	45.27	45.29	45.31	45.33	45.35	45.37	45.39	45.41	45.43	45.45	45.47	45.49	45.51	45.53	45.55	45.57	45.59	45.61	45.63	45.65	45.67	45.69	45.71	45.73	45.75	45.77	45.79	45.81	45.83	45.85	45.87	45.89	45.91	45.93	45.95	45.97	45.99	46.01	46.03	46.05	46.07	46.09	46.11	46.13	46.15	46.17	46.19	46.21	46.23	46.25	46.27	46.29	46.31	46.33	46.35	46.37	46.39	46.41	46.43	46.45	46.47	46.49	46.51	46.53	46.55	46.57	46.59	46.61	46.63	46.65	46.67	46.69	46.71	46.73	46.75	46.77	46.79	46.81	46.83	46.85	46.87	46.89	46.91	46.93	46.95	46.97	46.99	47.01	47.03	47.05	47.07	47.09	47.11	47.13	47.15	47.17	47.19	47.21	47.23	47.25	47.27	47.29	47.31	47.33	47.35	47.37	47.39	47.41	47.43	47.45	47.47	47.49	47.51	47.53	47.55	47.57	47.59	47.61	47.63	47.65	47.67	47.69	47.71	47.73	47.75	47.77	47.79	47.81	47.83	47.85	47.87	47.89	47.91	47.93	47.95	47.97	47.99	48.01	48.03	48.05	48.07	48.09	48.11	48.13	48.15	48.17	48.19	48.21	48.23	48.25	48.27	48.29	48.31	48.33	48.35	48.37	48.39	48.41	48.43	48.45	48.47	48.49	48.51	48.53	48.55	48.57	48.59	48.61	48.63	48.65	48.67	48.69	48.71	48.73	48.75	48.77	48.79	48.81	48.83	48.85	48.87	48.89	48.91	48.93	48.95	48.97	48.99	49.01	49.03	49.05	49.07	49.09	49.11	49.13	49.15	49.17	49.19	49.21	49.23	49.25	49.27	49.29	49.31	49.33	49.35	49.37	49.39	49.41	49.43	49.45	49.47	49.49	49.51	49.53	49.55	49.57	49.59	49.61	49.63	49.65	49.67	49.69	49.71	49.73	49.75	49.77	49.79	49.81	49.83	49.85	49.87	49.89	49.91	49.93	49.95	49.97	49.99	50.01	50.03	50.05	50.07	50.09	50.11	50.13	50.15	50.17	50.19	50.21	50.23	50.25	50.27	50.29	50.31	50.33	50.35	50.37	50.39	50.41	50.43	50.45	50.47	50.49	50.51	50.53	50.55	50.57	50.59	50.61	50.63	50.65	50.67	50.69	50.71	50.73	50.75	50.77	50.79	50.81	50.83	50.85	50.87	50.89	50.91	50.93	50.95	50.97	50.99	51.01	51.03	51.05	51.07	51.09	51.11	51.13	51.15	51.17	51.19	51.21	51.23	51.25	51.27	51.29	51.31	51.33	51.35	51.37	51.39	51.41	51.43	51.45	51.47	51.49	51.51	51.53	51.55	51.57	51.59	51.61	51.63	51.65	51.67	51.69	51.71	51.73	51.75	51.77	51.79	51.81	51.83	51.85	51.87	51.89	51.91	51.93	51.95	51.97	51.99	52.01	52.03	52.05	52.07	52.09	52.11	52.13	52.15	52.17	52.19	52.21	52.23	52.25	52.27	52.29	52.31	52.33	52.35	52.37	52.39	52.41	52.43	52.45	52.47	52.49	52.51	52.53	52.55	52.57	52.59	52.61	52.63	52.65	52.67	52.69	52.71	52.73	52.75	52.77	52.79	52.81	52.83	52.85	52.87	52.89	52.91	52.93	52.95	52.97	52.99	53.01	53.03	53.05	53.07	53.09	53.11	53.13	53.15	53.17	53.19	53.21	53.23	53.25	53.27	53.29	53.31	53.33	53.35	53.37	53.39	53.41	53.43	53.45	53.47	53.49	53.51	53.53	53.55	53.57	53.59	53.61	53.63	53.65	53.67	53.69	53.71	53.73	53.75	53.77	53.79	53.81	53.83	53.85	53.87	53.89	53.91	53.93	53.95	53.97	53.99	54.01	54.03	54.05	54.07	54.09	54.11	54.13	54.15	54.17	54.19	54.21	54.23	54.25	54.27	54.29	54.31	54.33	54.35	54.37	54.39	54.41	54.43	54.45	54.47	54.49	54.51	54.53	54.55	54.57	54.59	54.61	54.63	54.65	54.67	54.69	54.71	54.73	54.75	54.77	54.79	54.81	54.83	54.85	54.87	54.89	54.91	54.93	54.95	54.97	54.99	55.01	55.03	55.05	55.07	55.09	55.11	55.13	55.15	55.17	55.19	55.21	55.23	55.25	55.27	55.29	55.31	55.33	55.35	55.37	55.39	55.41	55.43	55.45	55.47	55.49	55.51	55.53	55.55	55.57	55.59	55.61	55.63	55.65	55.67	55.69	55.71	55.73	55.75	55.77	55.79	55.81	55.83	55.85	55.87	55.89	55.91	55.93	55.95	55.97	55.99	56.01	56.03	56.05	56.07	56.09	56.11	56.13	56.15	56.17	56.19	56.21	56.23	56.25	56.27	56.29	56.31	56.33	56.35	56.37	56.39	56.41	56.43	56.45	56.47	56.49	56.51	56.53	56.55	56.57	56.59	56.61	56.63	56.65	56.67	56.69	56.71	56.73	56.75	56.77	56.79	56.81	56.83	56.85	56.87	56.89	56.91	56.93	56.95	56.97	56.99	57.01	57.03	57.05	57.07	57.09	57.11	57.13	57.15	57.17	57.19	57.21	57.23	57.25	57.27	57.29	57.31	57.33	57.35	57.37	57.39	57.41	57.43	57.45	57.47	57.49	57.51	57.53	57.55	57.57	57.59	57.61	57.63	57.65	57.67	57.69	57.71	57.73	57.75	57.77	57.79	57.81	57.83	57.85	57.87	57.89	57.91	57.93	57.95	57.97	57.99	58.01	58.03	58.05	58.07	58.09	58.11	58.13</
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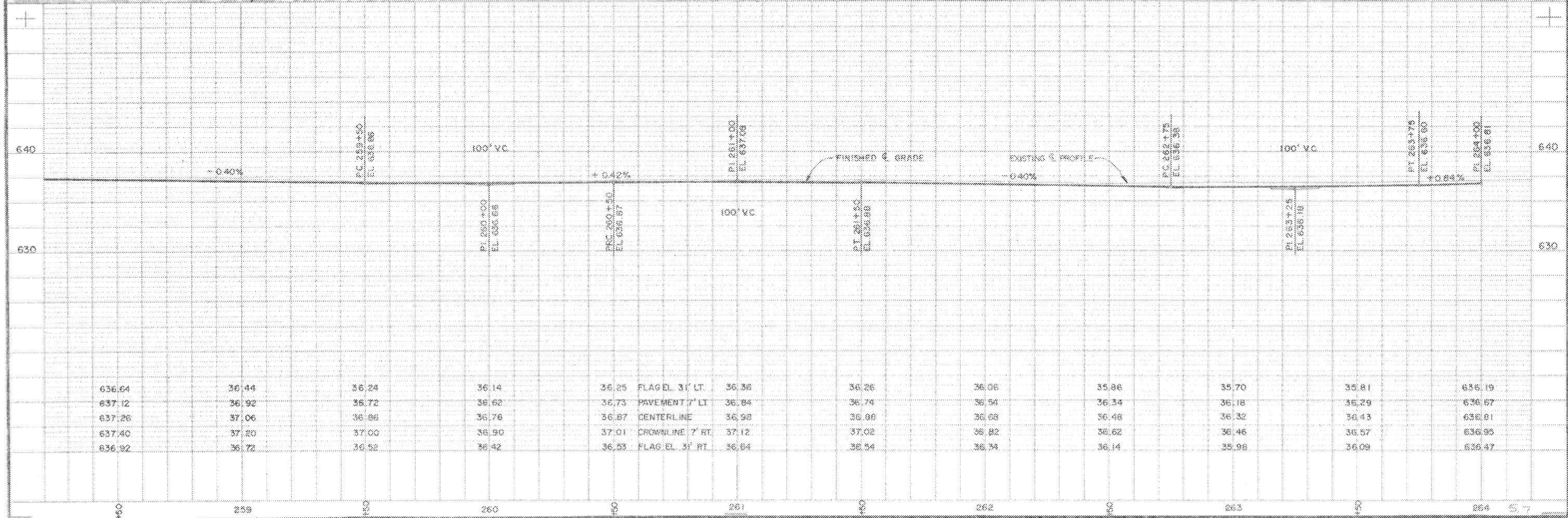
STATE PROJECT NUMBER	SHEET NO.
1190-07-73, 74	5.8
E. SECOND ST. - U.S.H. 2	



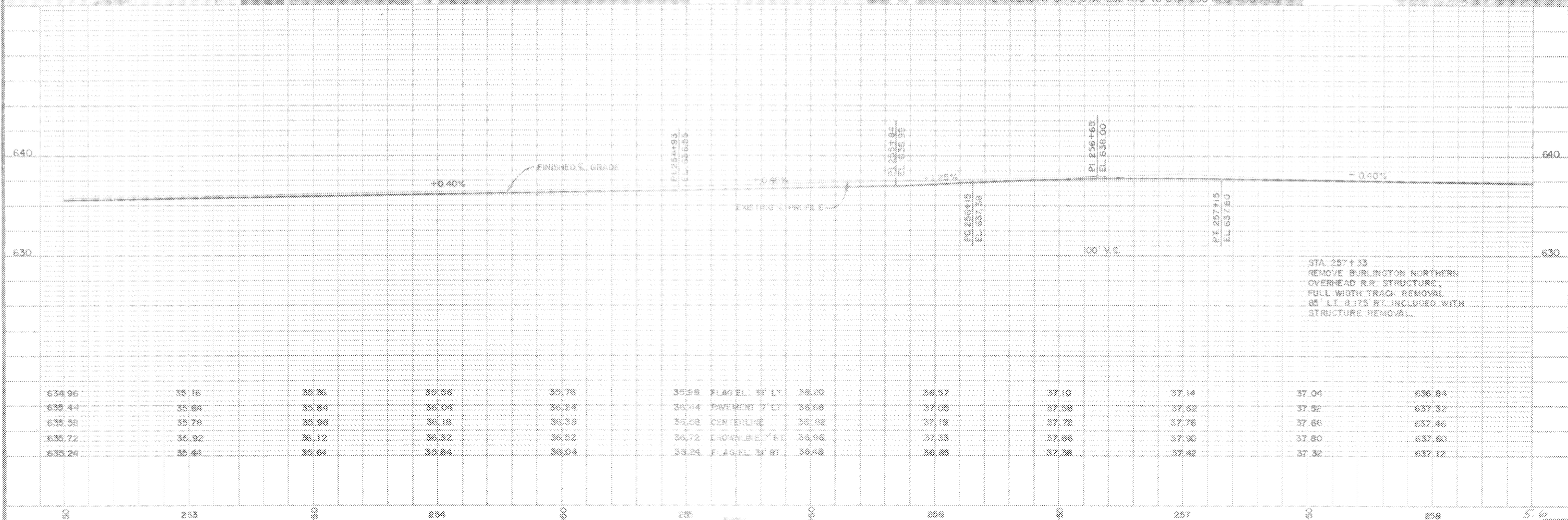
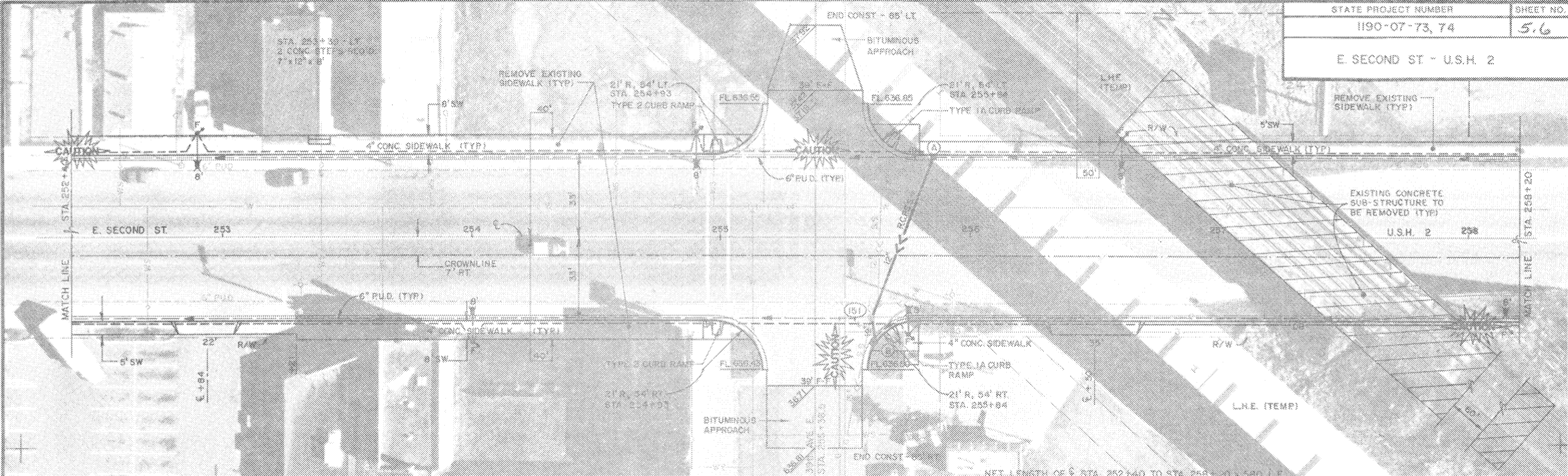
STATE PROJECT NUMBER	SHEET NO.
1190-07-73, 74	5.7
E. SECOND ST. - U.S.H. 2	



NET LENGTH OF E. STA. 256+20 TO STA. 264+20 = 600 LF

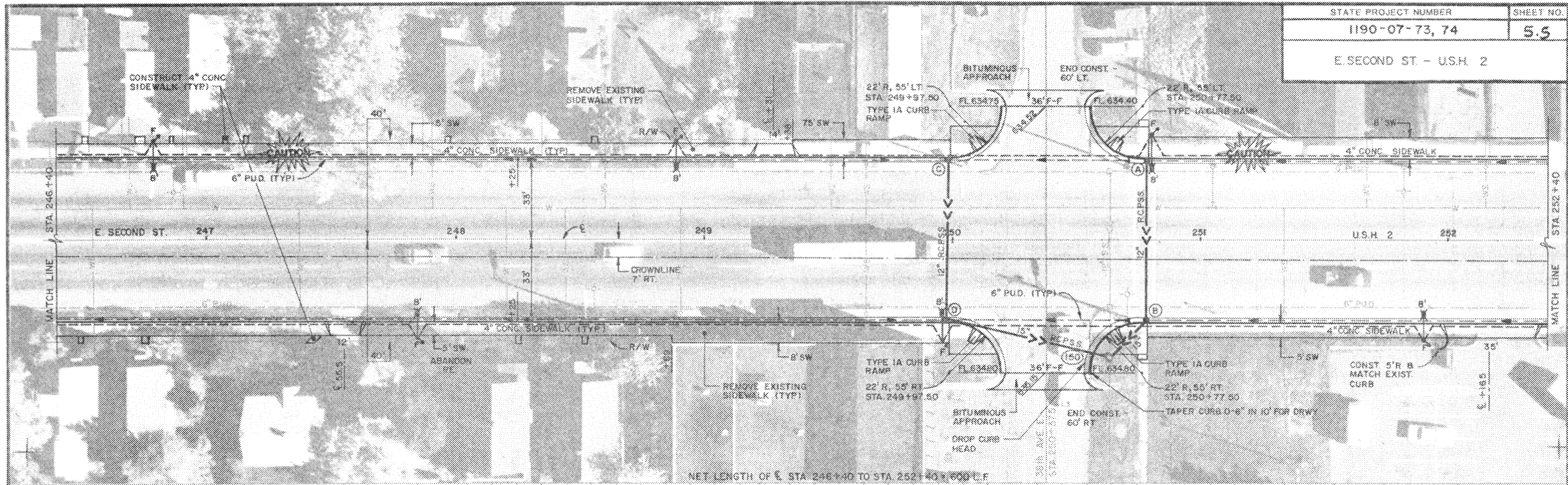


E. SECOND ST - U.S.H. 2

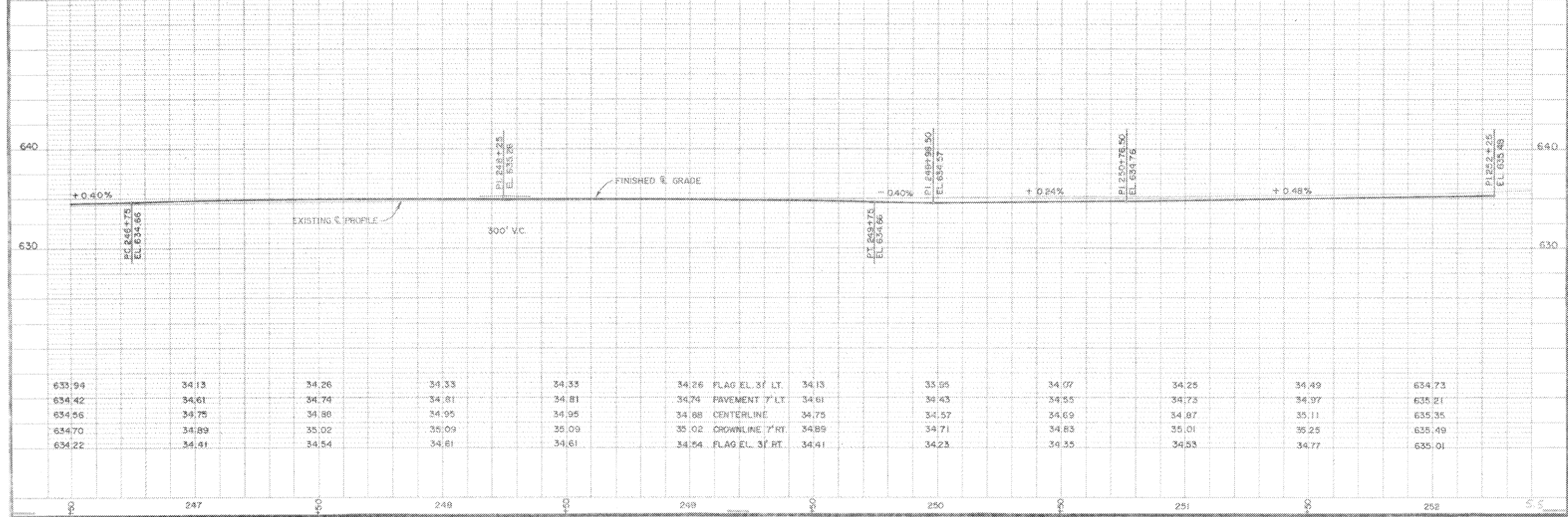


STA. 257+33
 REMOVE BURLINGTON NORTHERN
 OVERHEAD R.R. STRUCTURE,
 FULL WIDTH TRACK REMOVAL.
 85' LT. & 193' RT. INCLUDED WITH
 STRUCTURE REMOVAL.

STATE PROJECT NUMBER	SHEET NO.
1190-07-73, 74	5.5
E. SECOND ST - U.S.H. 2	

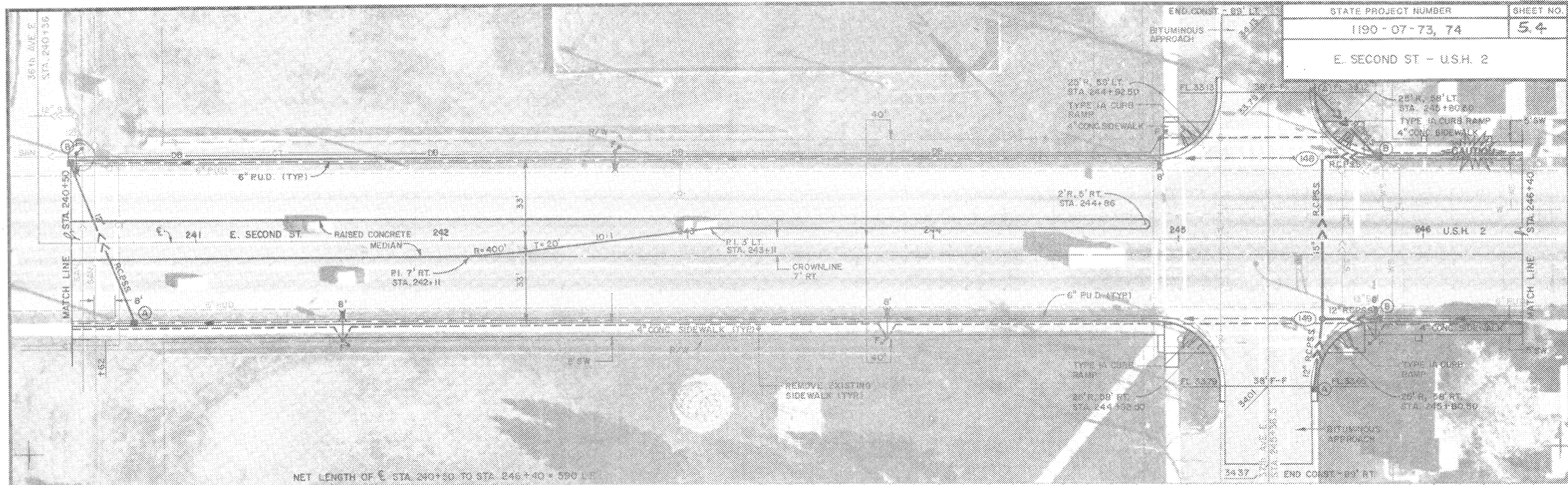


NET LENGTH OF E. STA. 246+40 TO STA. 252+40 = 600' L.F.

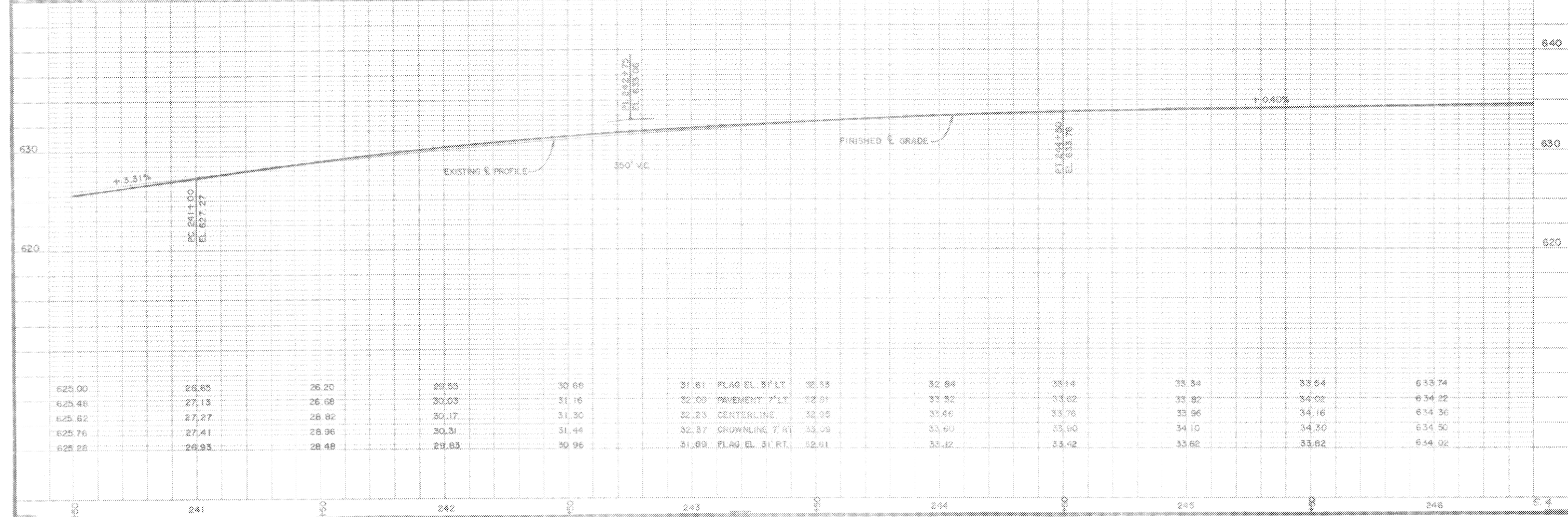


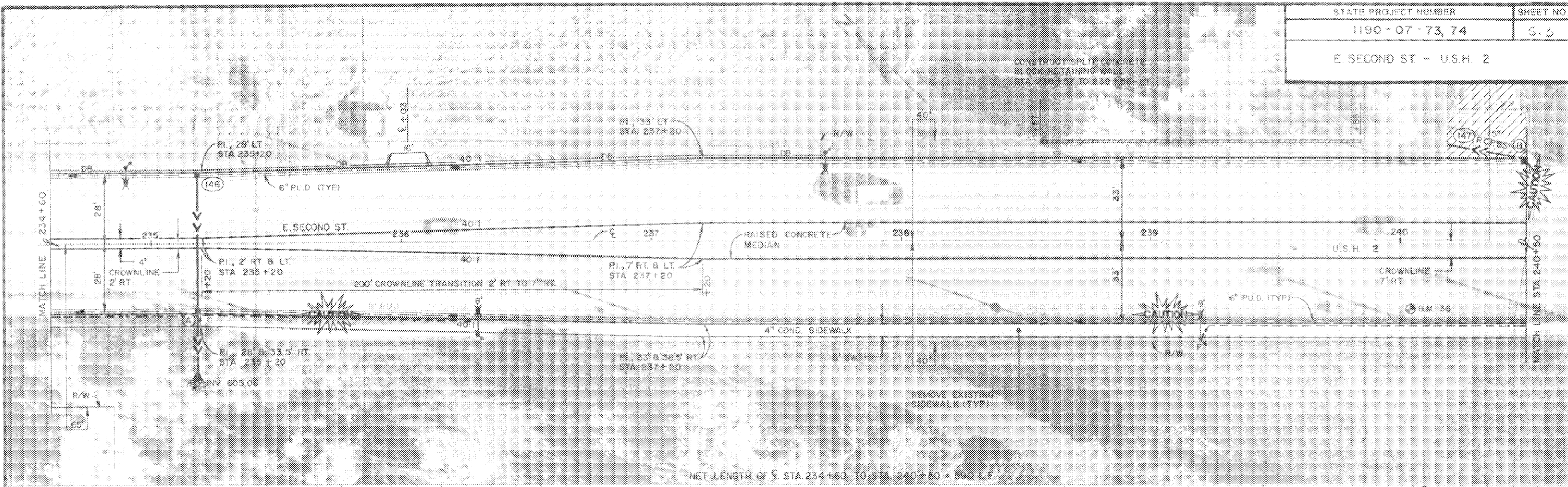
633.94	34.13	34.26	34.33	34.33	34.26	FLAG EL. 3' LT.	34.13	35.05	34.07	34.25	34.49	634.73
634.42	34.61	34.74	34.81	34.81	34.74	PAVEMENT 7' LT.	34.61	34.43	34.55	34.73	34.97	635.21
634.56	34.75	34.88	34.95	34.95	34.88	CENTERLINE	34.75	34.57	34.69	34.87	35.11	635.35
634.70	34.89	35.02	35.09	35.09	35.02	CROWNLINE 7' RT.	34.89	34.71	34.83	35.01	35.25	635.49
634.22	34.41	34.54	34.61	34.61	34.54	FLAG EL. 3' RT.	34.41	34.23	34.35	34.53	34.77	635.01

STATE PROJECT NUMBER	SHEET NO.
1190-07-73, 74	54
E. SECOND ST - U.S.H. 2	



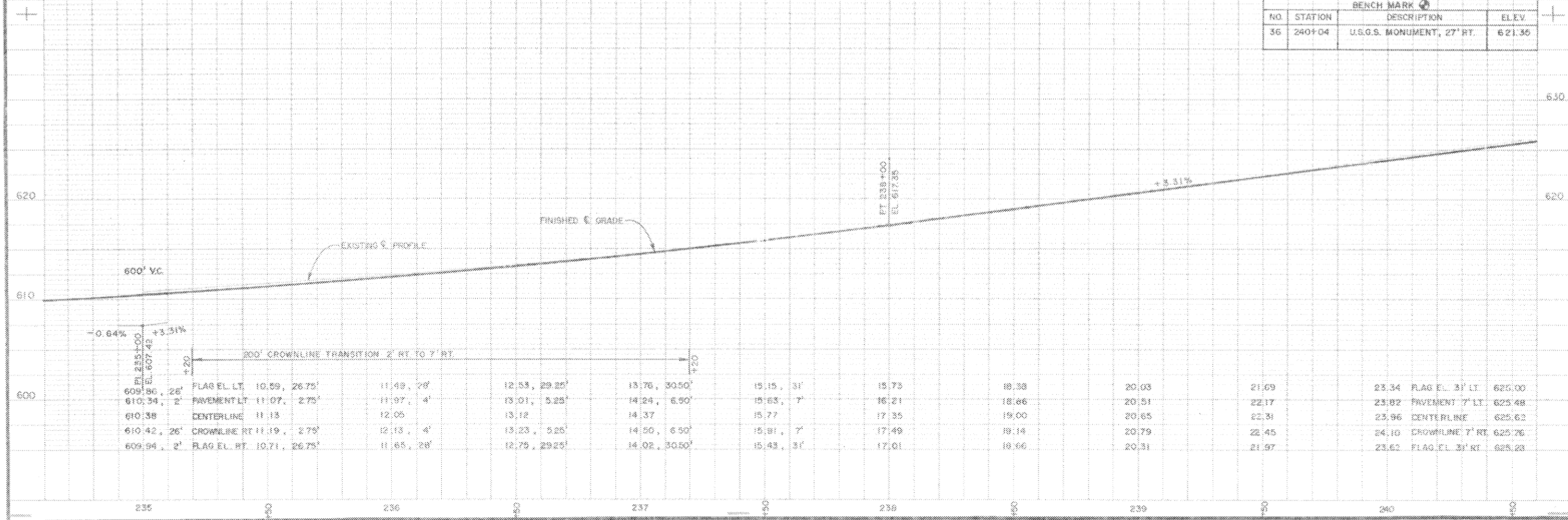
NET LENGTH OF E. STA 240+50 TO STA 246+40 = 589 L.



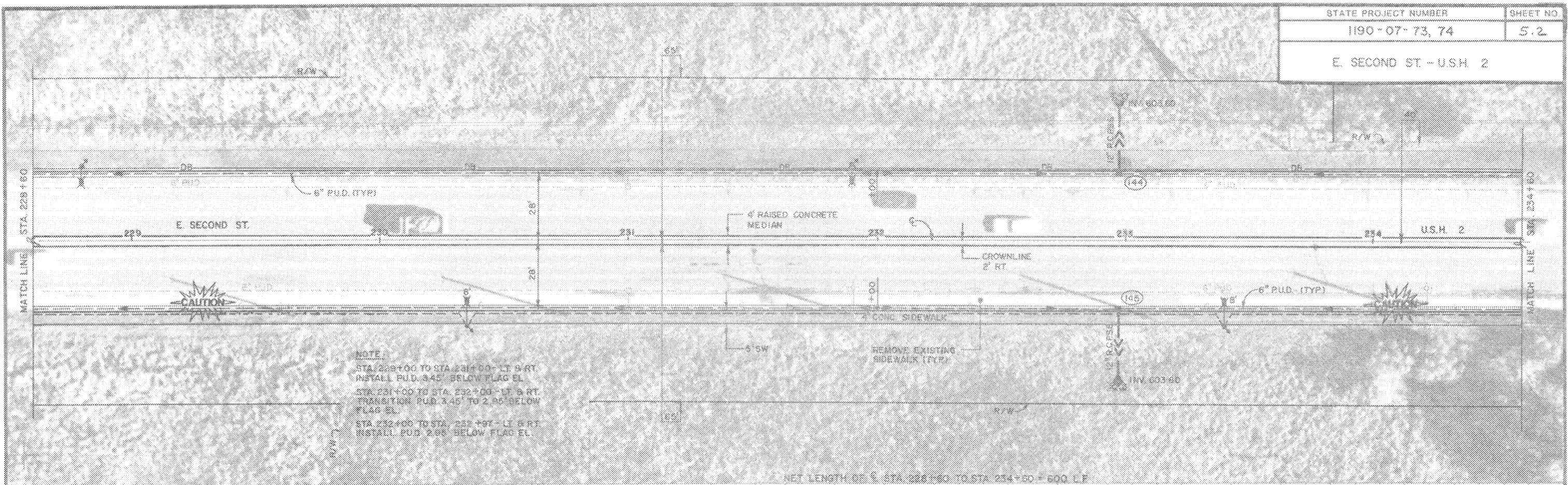


NET LENGTH OF STA 234+60 TO STA 240+50 = 590 LF

NO.	STATION	BENCH MARK	
		DESCRIPTION	ELEV.
36	240+04	U.S.G.S. MONUMENT, 27' RT.	621.36

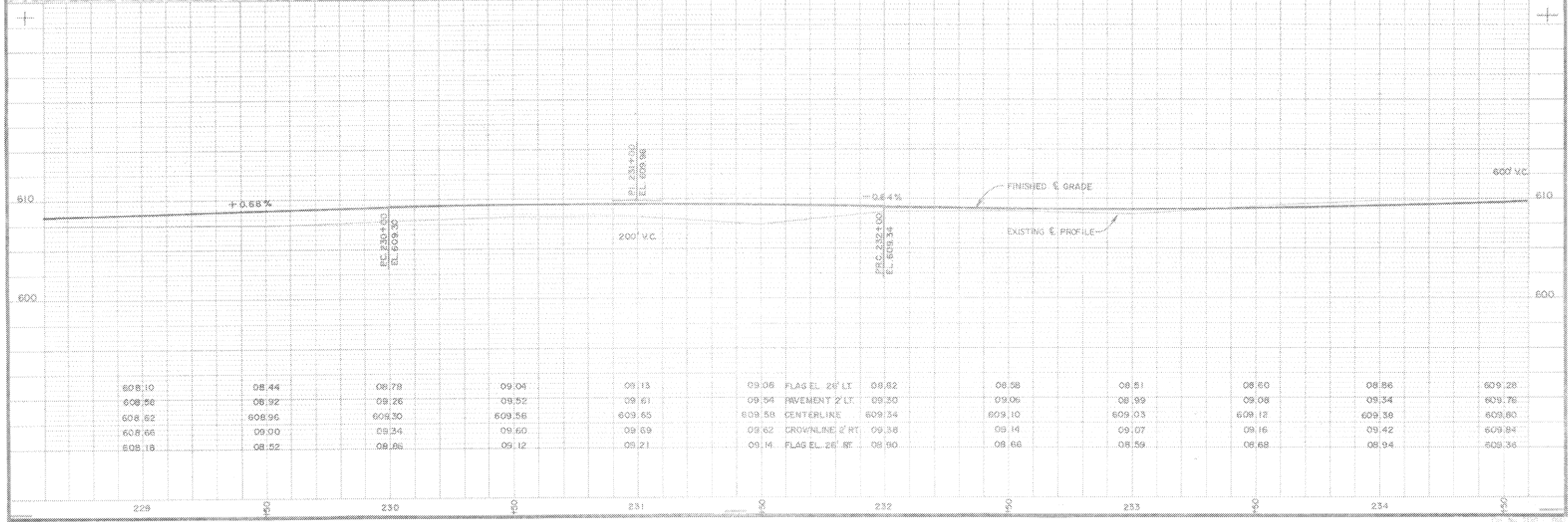


STATE PROJECT NUMBER	SHEET NO.
1190-07-73, 74	5.2
E. SECOND ST - U.S.H. 2	

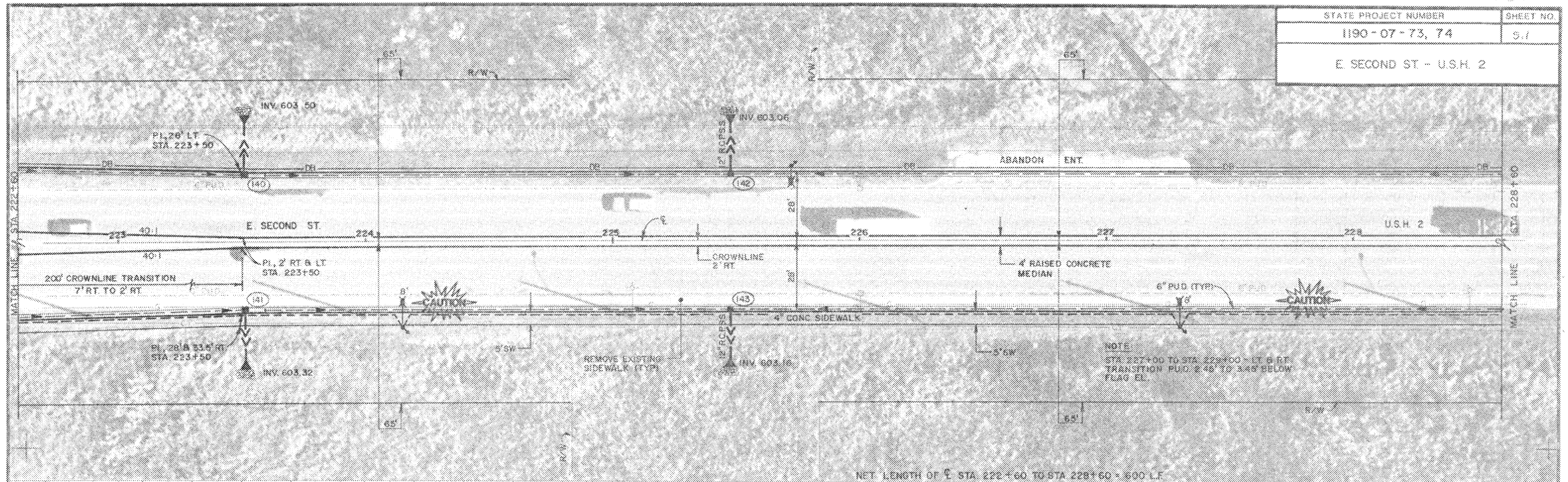


NOTE:
 STA 229+00 TO STA 230+00 1/2' RT
 INSTALL P.U.D. 3" BELOW FLAG EL.
 STA 231+00 TO STA 232+00 1/2' RT
 TRANSITION P.U.D. 2" TO 2" BELOW
 FLAG EL.
 STA 232+00 TO STA 233+00 1/2' RT
 INSTALL P.U.D. 2" BELOW FLAG EL.

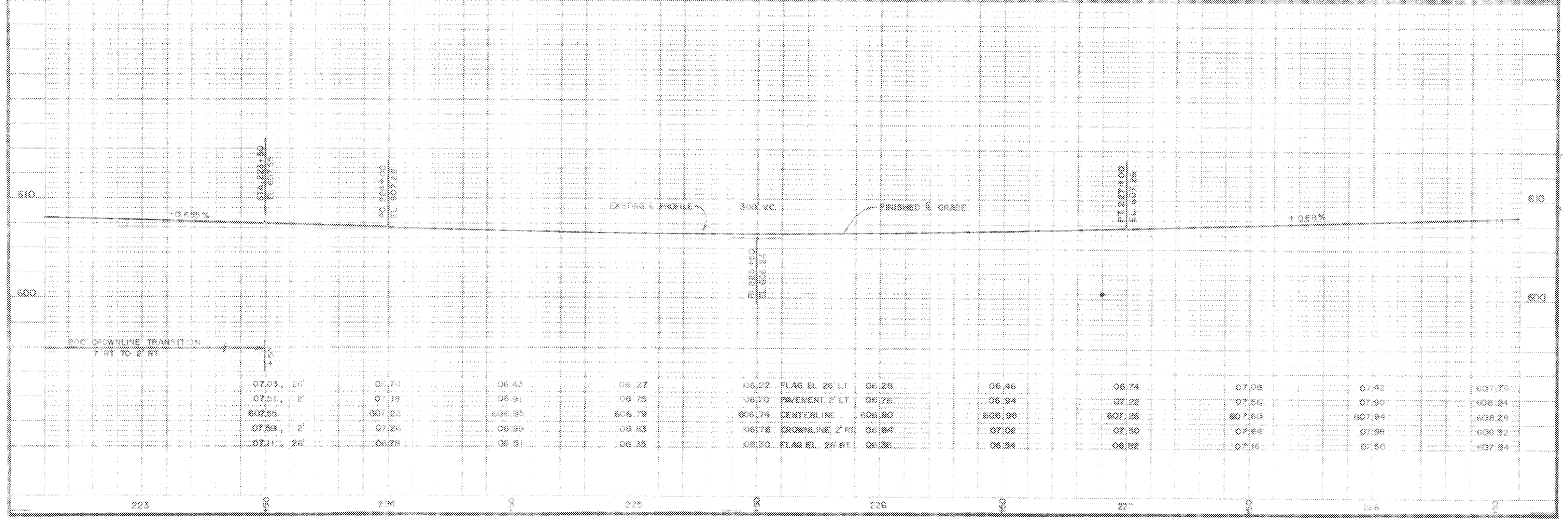
NET LENGTH OF STA 228+00 TO STA 234+00 = 800' L.P.

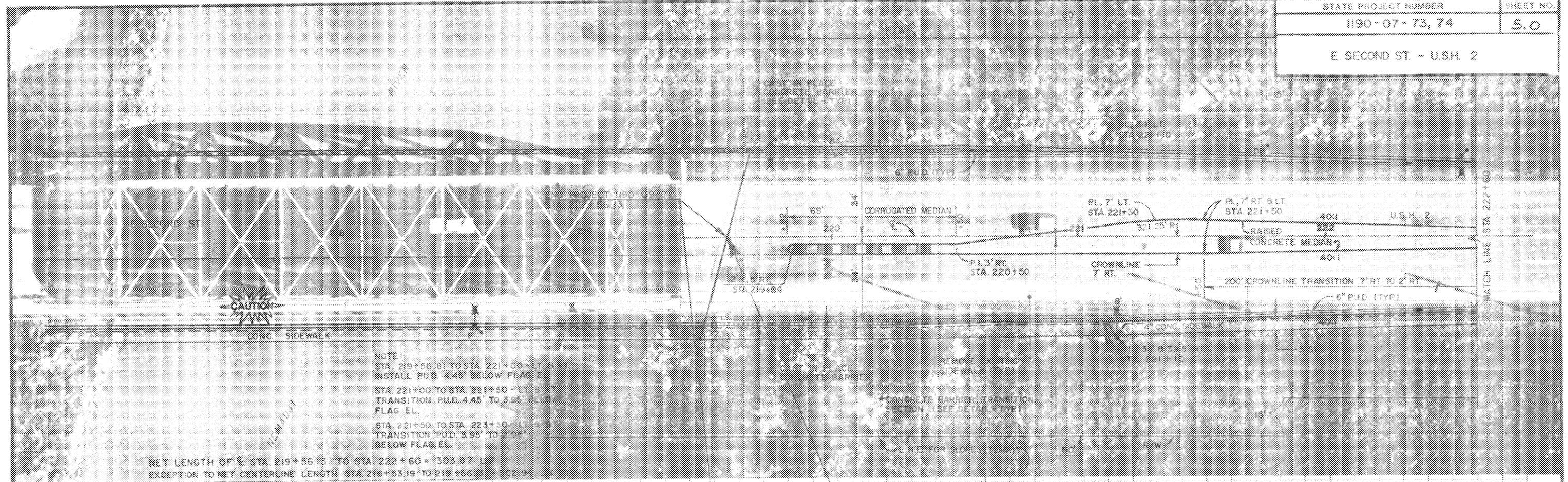


STATE PROJECT NUMBER	SHEET NO.
1190-07-73, 74	9.1
E. SECOND ST - U.S.H. 2	



NET LENGTH OF E STA 223+60 TO STA 228+60 = 600 LF

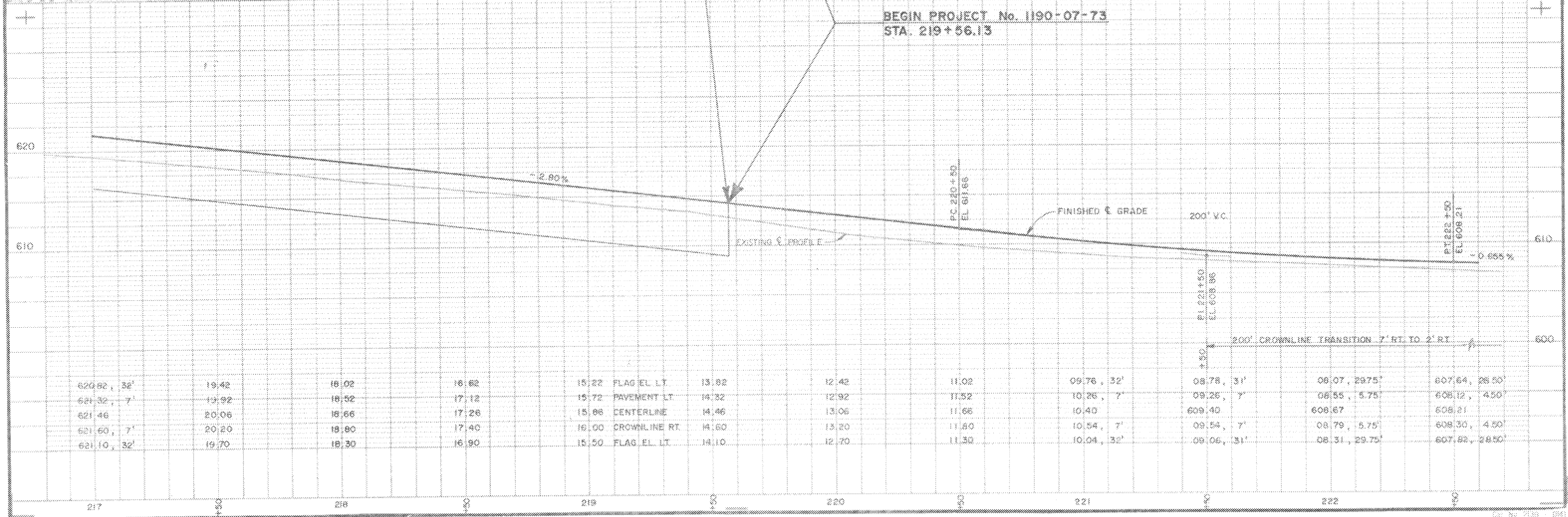




NOTE:
 STA. 219+56.81 TO STA. 221+00 = LT. & RT.
 INSTALL P.U.D. 4.45' BELOW FLAG EL.
 STA. 221+00 TO STA. 221+50 = LT. & RT.
 TRANSITION P.U.D. 4.45' TO 3.95' BELOW
 FLAG EL.
 STA. 221+50 TO STA. 223+50 = LT. & RT.
 TRANSITION P.U.D. 3.95' TO 2.55'
 BELOW FLAG EL.

NET LENGTH OF E STA. 219+56.13 TO STA. 222+60 = 303.87 LF
 EXCEPTION TO NET CENTERLINE LENGTH STA. 216+53.19 TO 219+56.13 = 302.94 LF

BEGIN PROJECT No. 1190-07-73
 STA. 219+56.13



620.82, 32'	19.42	18.02	16.82	15.22	FLAG EL. LT.	13.82	12.42	11.02	09.76, 32'	08.78, 31'	06.07, 29.75'	607.64, 28.50'
621.32, 7'	19.92	18.52	17.12	15.72	PAVEMENT LT.	14.32	12.92	11.52	10.26, 7'	09.28, 7'	08.55, 5.75'	608.12, 4.50'
621.46	20.06	18.66	17.26	15.86	CENTERLINE	14.46	13.06	11.66	10.40	609.40	608.67	608.21
621.60, 7'	20.20	18.80	17.40	16.00	CROWLINE RT.	14.60	13.20	11.80	10.54, 7'	09.54, 7'	08.79, 5.75'	608.30, 4.50'
621.10, 32'	19.70	18.30	16.90	15.50	FLAG EL. LT.	14.10	12.70	11.30	10.04, 32'	09.06, 31'	08.31, 29.75'	607.82, 28.50'

STATE PROJECT NUMBER	SHEET NO.
1190-07-73	3 D
DETAILED SUMMARY OF MISCELLANEOUS QUANTITIES	

REINFORCED CONCRETE PIPE, STORM SEWER

STATION TO STATION	LOCATION	15-INCH CLASS III L.F.	18-INCH CLASS III L.F.	24-INCH CLASS III L.F.	12-INCH CLASS IV L.F.	15-INCH CLASS IV L.F.	JOINT TIES NO.
219 + 50 TO 240 + 36	MAINLINE LT & RT	---	---	---	179	---	34
240 + 36 TO 260 + 38	MAINLINE LT & RT	344	---	---	367	29	10
260 + 38 TO 275 + 41	MAINLINE LT & RT	351	271	---	267	---	---
0 + 00 TO 25 + 02	MAINLINE LT & RT	76	---	---	194	---	22
25 + 02 TO 49 + 90	MAINLINE LT & RT	34	---	118	445	104	4

TOPSOIL, MULCHING, FERTILIZER AND SEEDING

STATION TO STATION	LOCATION	TOPSOIL S.Y.	MULCHING S.Y.	TYPE "B" FERTILIZER CWT	SEEDING LBS
219 + 50 TO 240 + 36		10,057	9,559	6.3	225
240 + 36 TO 260 + 38		2,057	1,404	1.3	50
260 + 38 TO 275 + 41		1,096	244	0.7	25
0 + 00 TO 25 + 02		9,491	8,839	6.0	220
25 + 02 TO 49 + 90		3,299	2,296	2.0	95
EAST 3RD STREET		1,768	2,065	1.1	35
C.T.H. "E"		1,289	1,500	0.8	25
MISCELLANEOUS	AT RR TRESSEL STRUCTURE REMOVAL	703	703	0.1	15
STREET CLOSURES	AT OBLITERATIONS	2,690	2,690	1.7	50

CONCRETE CURB & GUTTER, TYPE "A", 20-INCH (INCLUDES INTERSECTION RADIT AND CURB TAPERS)

STATION TO STATION	LOCATION	L.F.
219 + 50 TO 240 + 36	MAINLINE LT & RT	4,172
240 + 36 TO 260 + 38	MAINLINE LT & RT	4,106
260 + 38 TO 275 + 41	MAINLINE LT & RT	3,047
0 + 00 TO 25 + 02	MAINLINE LT & RT	4,560
25 + 02 TO 52 + 40	MAINLINE LT & RT	5,469

RIPRAP

STATION TO STATION	LOCATION	C.Y.
219 + 50 TO 240 + 36	LT & RT	7
0 + 00 TO 25 + 02	LT & RT	28

ADJUSTING MANHOLE COVERS

STATION	LOCATION	EACH
255 + 60.5	30' RT	1
25 + 02	86.3' LT	1

CONCRETE MEDIAN, 15 INCH

STATION TO STATION	LOCATION	S.F.
219 + 50 TO 240 + 36	MAINLINE MEDIAN	11,992
240 + 36 TO 260 + 38	MAINLINE MEDIAN	2,672
260 + 38 TO 275 + 41	MAINLINE MEDIAN	2,776
0 + 00 TO 25 + 02	MAINLINE MEDIAN	12,382
25 + 02 TO 52 + 40	MAINLINE MEDIAN	8,247

MANHOLES, TYPE 1 & TYPE 3

STATION	LOCATION	COVER TYPE	TYPE 1 EACH	TYPE 3 EACH
245 + 58	32.5' RT	J	1	
260 + 46	20' LT	J	1	
263 + 06	20' LT	J	1	
265 + 06	20' LT	J	1	
270 + 23	71' LT	J		1

ADJUSTING INLET COVERS

STATION	LOCATION	EACH
240 + 21.5	39' LT	1
49 + 48	25.5' LT	1
49 + 48	25.5' RT	1
52 + 30	32.0' LT	1
52 + 30	25.5' RT	1

CONCRETE SIDEWALK, 4-INCH

STATION TO STATION	LOCATION	S.F.
219 + 50 TO 240 + 36	RT	10,442
240 + 36 TO 260 + 38	LT & RT	15,981
260 + 38 TO 275 + 41	LT & RT	10,268
0 + 00 TO 25 + 02	LT & RT	12,852
25 + 02 TO 52 + 40	LT & RT	8,766

INLETS, TYPE 1

STATION	LOCATION	COVER TYPE	EACH
5 + 00.5	50' RT	B	1
13 + 11	28' LT	B	1
13 + 11	28' RT	B	1
16 + 08	27.5' LT	A	1
16 + 08	2.75' RT	A	1
39 + 84.5	47.5' RT	B	1
40 + 14.5	47.5' RT	B	1

PIPE UNDERDRAIN, 6-INCH

STATION TO STATION	LOCATION	L.F.
219 + 50 TO 240 + 36	MAINLINE LT & RT	4,120
240 + 36 TO 260 + 38	MAINLINE LT & RT	3,894
260 + 38 TO 275 + 41	MAINLINE LT & RT	3,007
0 + 00 TO 25 + 02	MAINLINE LT & RT	3,250
25 + 02 TO 52 + 30	MAINLINE LT & RT	5,410

LANDMARK REFERENCE MONUMENT AND COVERS

STATION	LOCATION	EACH
240+04	27' RT.	1
270+40	C/L	1
24+73	24' LT.	1
39+71	35' LT.	1

INLETS, TYPE 3

STATION TO STATION	LOCATION	COVER TYPE	EACH
219 + 50 TO 240 + 36	MAINLINE LT & RT	H	8
240 + 36 TO 260 + 38	MAINLINE LT & RT	H	12
260 + 38 TO 275 + 41	MAINLINE LT & RT	H	11
0 + 00 TO 25 + 02	MAINLINE LT & RT	H	2
25 + 02 TO 49 + 90	MAINLINE LT & RT	H	11

PIPE UNDERDRAIN, UNPERFORATED, 6-INCH

STATION TO STATION	LOCATION	L.F.
0 + 00 TO 25 + 02	MAINLINE LT & RT	1,244

CONCRETE STEPS

STATION	LOCATION	S.F.
238 + 98	LT	30
253 + 39	LT	23
6 + 88	LT	35
23 + 23	LT	25
23 + 77	LT	19
25 + 66	LT	11

CHAIN LINK FENCE, TYPE "B", 5 FT.

STATION TO STATION	LOCATION	L.F.
40 + 35 TO 44 + 55	RT	420

RECONSTRUCTING MANHOLES

STATION	LOCATION	EACH	COVER TYPE
245 + 68	33' LT	1	J
250 + 60.5	45' RT	1	J
260 + 46	37' LT	1	J
270 + 23	20' RT	1	J
16 + 38	40' LT	1	J
18 + 18	32' LT	1	J
25 + 15	29' RT.	1	J
35 + 13	C/L	1	J
40 + 13	C/L	1	J

PAVEMENT MARKING, EPOXY

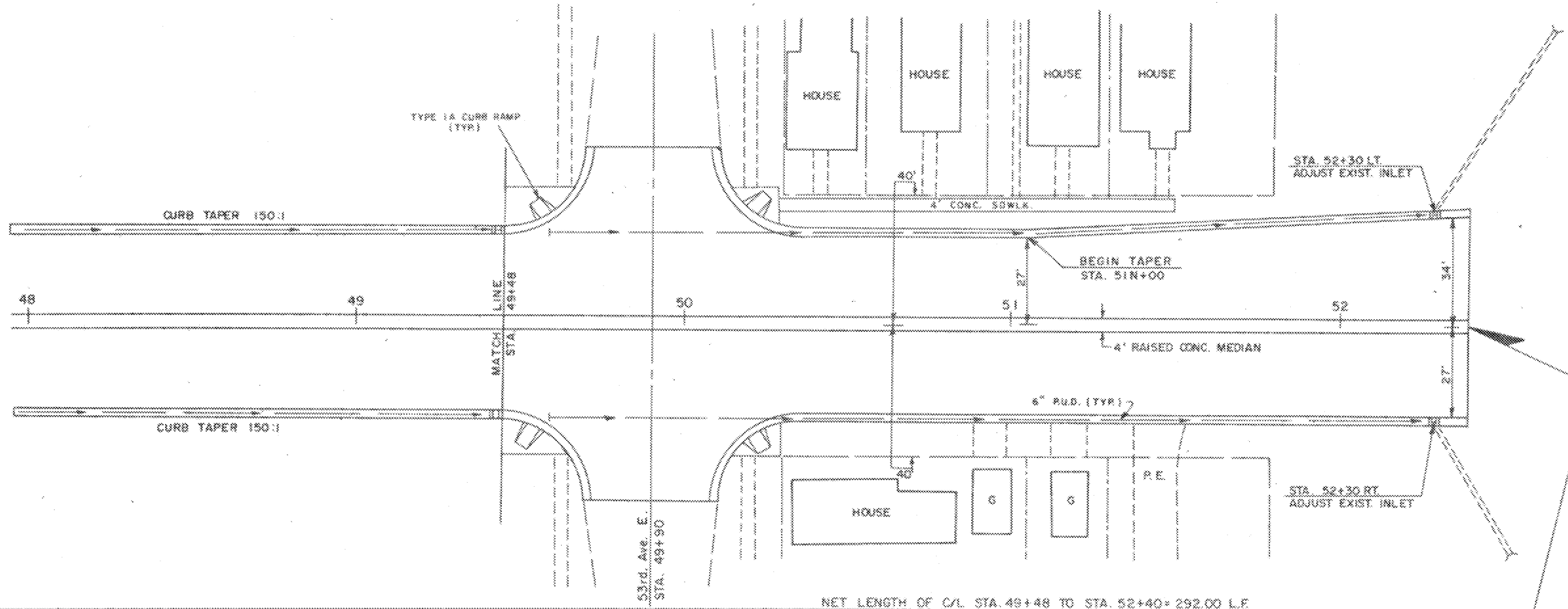
STATION TO STATION	LOCATION	4" SKIP WHITE L.F.	4" SOLID YELLOW L.F.	4" SKIP YELLOW L.F.	4" SOLID WHITE L.F.	24" STOP LINE L.F.	CROSS WALK 6" L.F.	ARROWS EACH	WORDS EACH	CHANNELIZING 8" SOLID WHITE L.F.
219+50 TO 240+36	MAINLINE	1,050	4,326	75	-	-	-	1	1	-
240+36 TO 260+38	MAINLINE	1,000	3,416	625	-	124	-	8	4	175
260+38 TO 275+41	MAINLINE	750	2,590	425	-	-	386	5	1	125
0+00 TO 25+02	MAINLINE	1,250	4,908	-	-	-	-	2	2	134
25+02 TO 52+40	MAINLINE	1,375	4,951	425	-	-	-	4	2	87
C.T.H. "E"		-	860	-	775	-	-	-	-	-
EAST 3RD STREET		-	1,280	-	1,325	-	-	-	-	-

NOTE: PAVEMENT MARKING INCLUDES NEMADJI RIVER STRUCTURE.

CONCRETE BARRIER TRANSITION

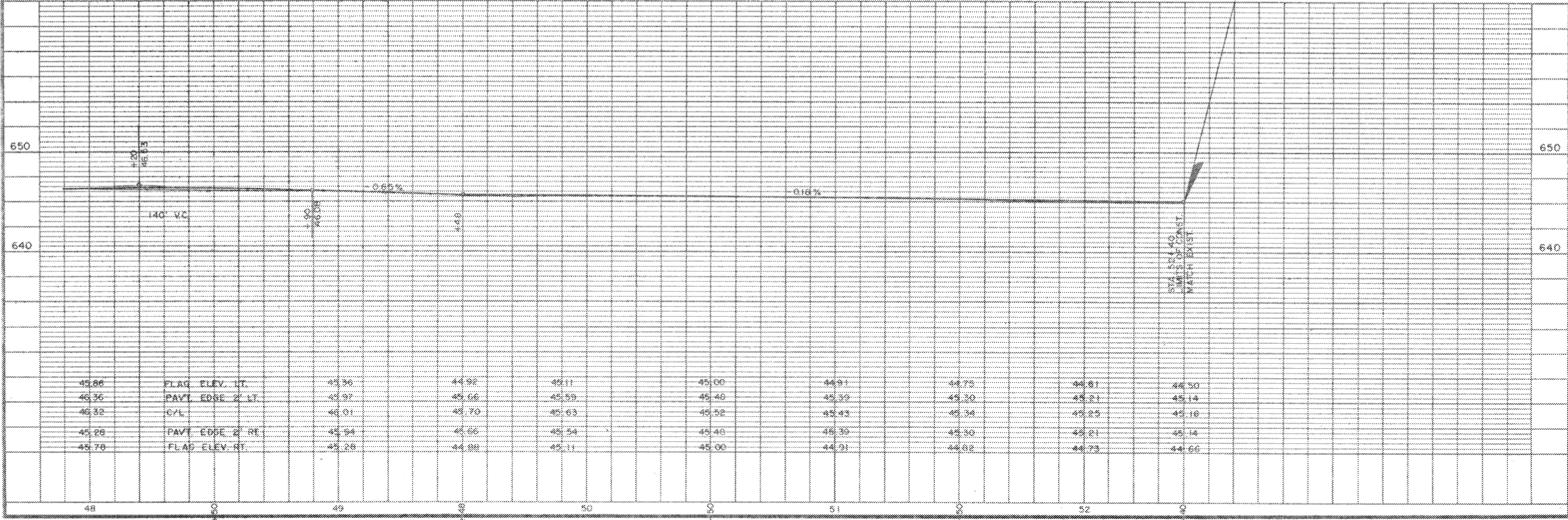
STATION TO STATION	LOCATION	L.F.
219 + 47.70 TO 220 + 22.70	RT	84
219 + 65.92 TO 220 + 40.92	LT	84
12 + 46.25 TO 13 + 21.25	LT & RT	168
13 + 98.75 TO 14 + 73.75	LT & RT	168

STATE PROJECT NUMBER	SHEET NO.
1190-07-73	5.19
E. SECOND ST. - U.S.H. 2	

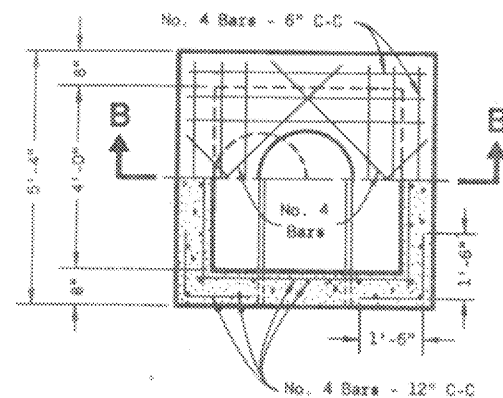


END PROJECT &
END SEGMENT I
STA. 52+40

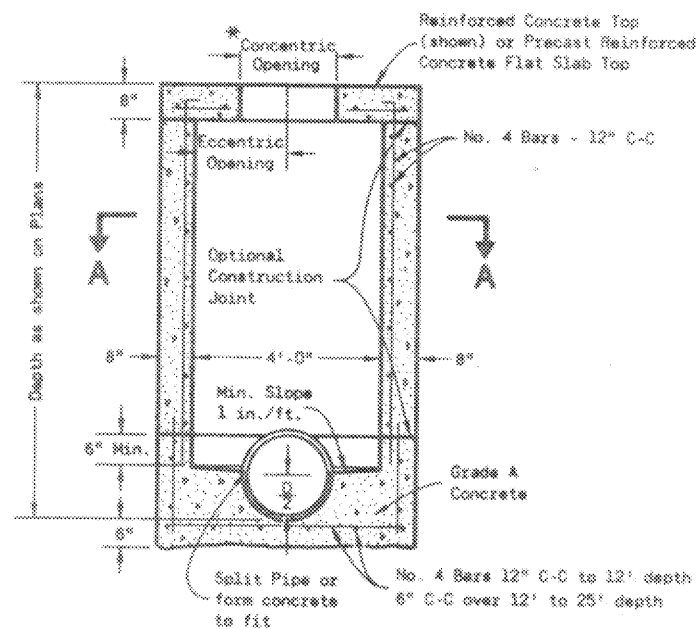
NET LENGTH OF C/L STA. 49+48 TO STA. 52+40 = 292.00 LF



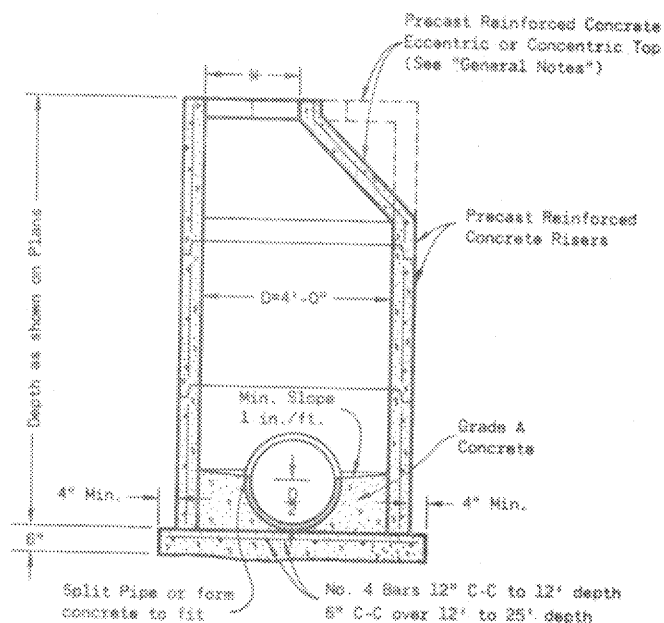
45.86	FLAG ELEV. LT.	45.36	44.92	44.11	45.00	44.91	44.73	44.81	44.50
46.36	PAVE. EDGE 2' LT.	45.97	45.66	45.59	45.40	45.39	45.30	45.21	45.14
46.32	C/L	46.01	45.70	45.63	45.52	45.43	45.34	45.25	45.18
45.28	PAVE. EDGE 2' RT.	45.54	45.66	45.54	45.43	45.35	45.30	45.21	45.14
45.78	FLAG ELEV. RT.	45.28	44.88	45.11	45.00	44.91	44.82	44.73	44.66



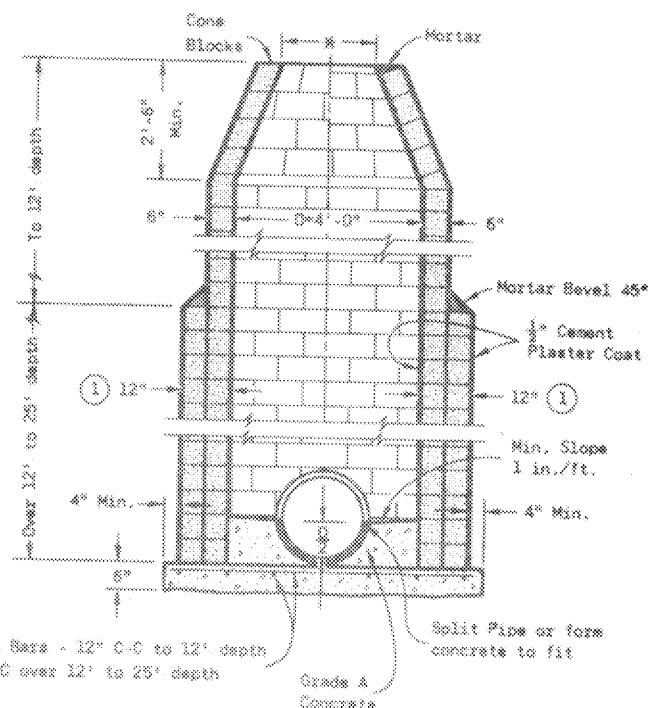
HALF SECTION A-A



SECTION B-B
REINFORCED CONCRETE



PRECAST REINFORCED CONCRETE



CONCRETE BLOCK

GENERAL NOTES

Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

Detailed drawings for proposed alternate designs for underground drainage structures shall be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.

All drainage structures are designated on the plans as "Manholes 1-C", "Catch Basins 1-B", "Inlets 3-H", etc. The first digit designates the masonry portion of the structure, and the following letter designates the type of cover to be used to comprise the complete unit.

Precast Reinforced Bases shall be placed on a bed of material at least 6 inches in depth, which meets the requirements for Granular Backfill. This bedding shall be compacted and provide uniform support for the entire area of the base.

Precast Reinforced Concrete Cone Tops (Eccentric or Concentric) may be used on concrete block structures. The Cone Tops shall be installed on a bed of mortar.

Eccentric Cone Tops may be used on all structures, and Concentric Cone Tops shall be used only on structures 5 feet or less in depth, unless otherwise directed by the Engineer.

Steps meeting the following requirements shall be installed in all structures over 5 feet in depth: 16 inch C-C maximum spacing; project a minimum clear distance of 4 inches from the wall at the point of embedment; minimum length of 10 inches; minimum wall embedment of 3 inches; and be capable of supporting a concentrated load of 300 lbs. Ferrous metal steps not painted or treated to resist corrosion shall have a minimum cross sectional dimension of 1 inch.

Solid Aluminum steps shall have a minimum cross sectional dimension of 0.75 inch. Aluminum surfaces to be embedded in concrete shall be given one coat of suitable quality paint, such as zinc chromate primer conforming to Federal Specification TT-P-645 or equivalent. Steps of approved Polypropylene plastic coated reinforcement bar will be acceptable.

All bar steel reinforcement shall be embedded 2 inches clear unless otherwise shown or noted.

Precast Reinforced Concrete Risers may be placed with tongue up or down.

All Precast Inlet Units shall conform to the pertinent requirements of AASHTO Designation M 199.

* Use 2'-0" diameter opening with Type "C", "L" and "J" covers, or 3'-0" diameter with Type "K" and "M" covers.

① 2 courses 6" block.

MANHOLES TYPE 1

MANHOLES TYPE 1

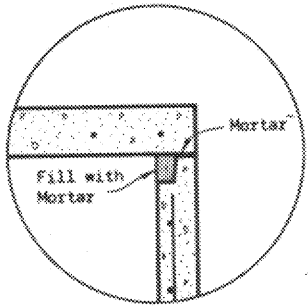
State of Wisconsin
Department of Transportation

APPROVED
4-13-82
DATE

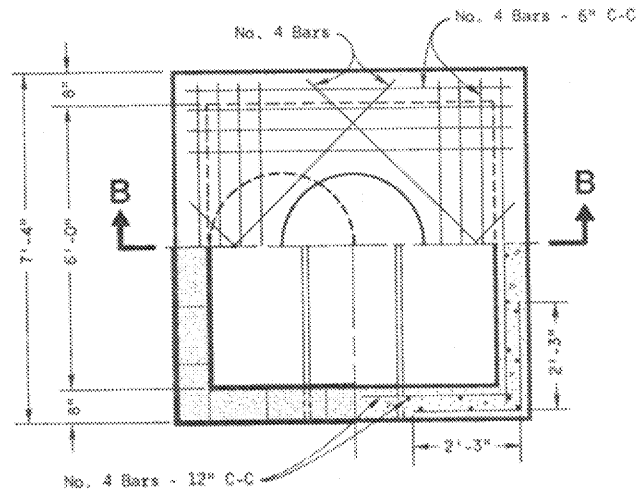
D. J. Strand
CHIEF DESIGN ENGINEER

S.D.D. 8 B 6-3

S.D.D. 8 B 6-3



DETAIL "A"



HALF SECTION A-A

GENERAL NOTES

Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

Detailed drawings for proposed alternate designs for underground drainage structures shall be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.

All drainage structures are designated on the plans as "Manholes 1-C", "Catch Basins 1-B", "Inlets 3-H", etc. The first digit designates the masonry portion of the structure, and the following letter designates the type of cover to be used to comprise the complete unit.

Precast Reinforced Bases shall be placed on a bed of material at least 6" in depth, which meets the requirements for Granular Backfill. This bedding shall be compacted and provide uniform support for the entire area of the base.

Steps meeting the following requirements shall be installed in all structures over 5 feet in depth: 16 inch C-C maximum spacing; project a minimum clear distance of 4 inches from the wall at the point of embedment; minimum length of 18 inches; minimum wall embedment of 3 inches; and capable of supporting a concentrated load of 300 lbs. Ferrous metal steps not painted or treated to resist corrosion shall have a minimum cross sectional dimension of 1 inch.

Solid Aluminum steps shall have a minimum cross sectional dimension of 0.75 inch. Aluminum surfaces to be embedded in concrete shall be given one coat of suitable quality paint, such as zinc chromate primer conforming to federal specification TT-P-645 or equivalent. Steps of approved Polypropylene plastic coated reinforcement bar are acceptable.

All bar steel reinforcement shall be embedded 2 inches clear unless otherwise shown or noted.

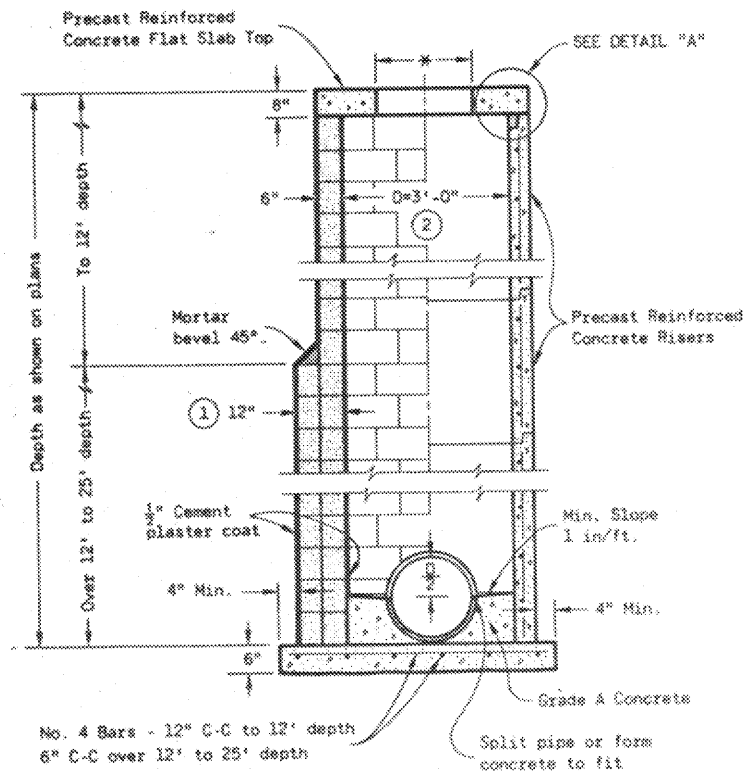
Precast Reinforced Concrete Risers shall be placed with tongue down.

All precast inlet units shall conform to the pertinent requirements of AASHTO Designation M 199.

* Use 2'-0" diameter opening with type "C", "L", and "J" covers, or 3'-0" diameter with type "K" and "M" covers.

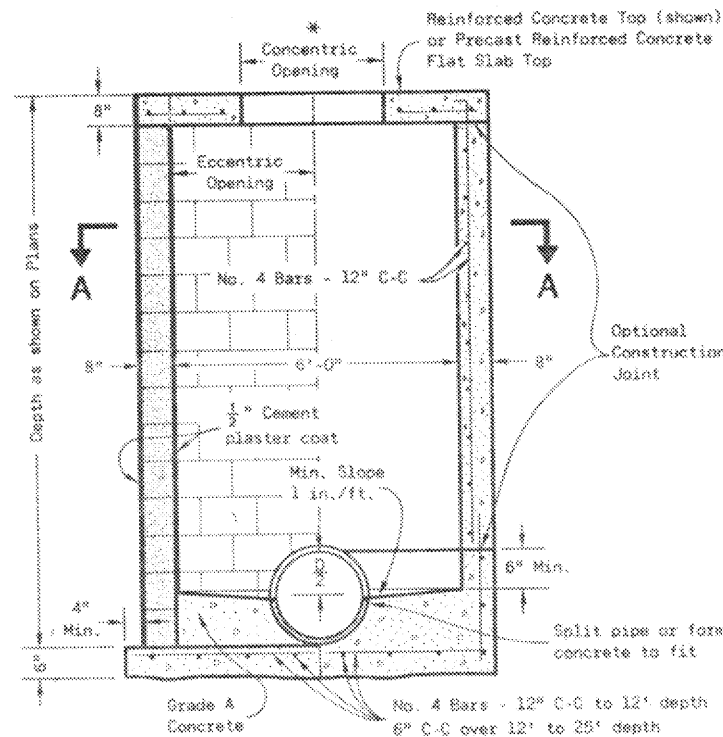
① 2 courses 6" block.

② When connecting pipes are 24" or larger the Precast Manholes may be increased to 42" diameter.



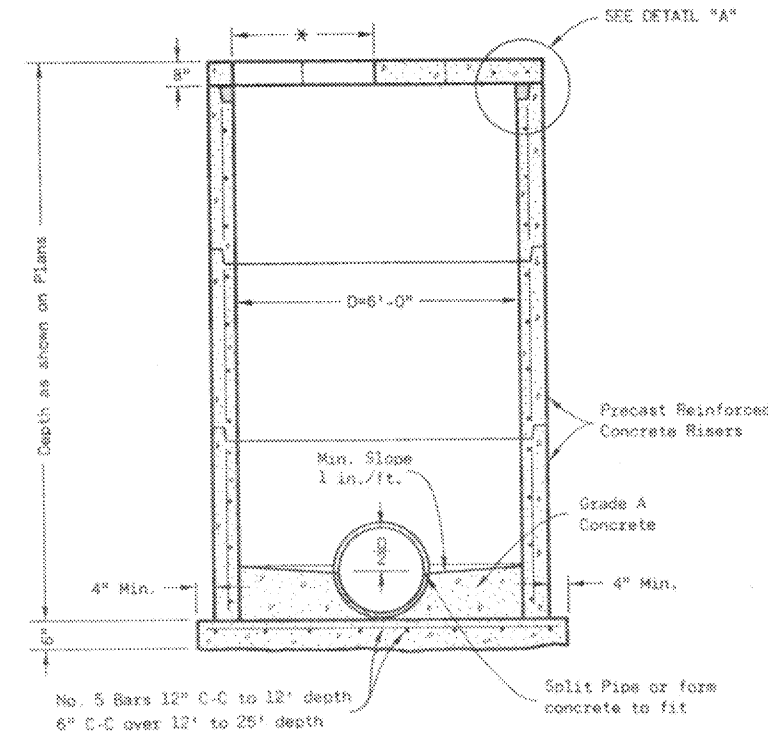
CONCRETE BLOCK PRECAST REINFORCED CONCRETE

MANHOLES TYPE 2



SECTION B-B
CONCRETE BLOCK REINFORCED CONCRETE

MANHOLES TYPE 3



PRECAST REINFORCED CONCRETE

MANHOLES TYPE 2 & 3

State of Wisconsin
Department of Transportation

APPROVED
4-13-82
DATE

D.D. Strand
CHIEF DESIGN ENGINEER

TWNS