

TRANSPORTATION PROJECT REPORT

DRAFT DESIGN REPORT / DRAFT ENVIRONMENTAL IMPACT STATEMENT / DRAFT 4(f) EVALUATION

APPENDIX B11 Asbestos Assessment

November 2016

PIN 5470.22
NYS Route 198 (Scajaquada Expressway Corridor)
Grant Street Interchange to Parkside Avenue Intersection
City of Buffalo
Erie County



ANDREW M. CUOMO
Governor

Department of
Transportation

MATTHEW J. DRISCOLL
Commissioner



U.S. Department of Transportation
Federal Highway Administration



Memorandum

To: James Boggs
Bergmann Associates
28 East Main Street
Rochester, NY 14614

From: Gregory A. Andrews, CHMM
(716) 206-5122

Date: December 4, 2013
Updated – June 2016

Subject: Contract No. D015557
PIN 5470.22.121
Design NYS Route 198 (Scajaquada Expressway)
Corridor I-190 to NY 33, Erie County
Asbestos Assessment Preliminary Investigation

Architecture
Civil
Engineering
Transportation
Engineering
Structural
Engineering
Environmental
Engineering
Asbestos/Lead
Consulting
Construction
Inspection
Mechanical
Engineering
Electrical
Engineering
Plumbing and
Fire Protection
Engineering

Watts Architecture & Engineering (Watts) has prepared this technical memorandum for the asbestos assessment preliminary investigation as part of the Reconstruction of NY Route 198, from Grant Street to Parkside Avenue. The project location is shown in Figure 1 in Attachment A.

This project is located along a 2.0 mile segment of NYS Route 198, Scajaquada Expressway, in the City of Buffalo, Erie County, New York. The purpose of the project is to provide geometric and operational improvements to NYS Route 198 in its current location from the intersection of Grant Street to the intersection of Parkside Avenue, including the segment through Delaware Park. These improvements will be made while maintaining local connectivity and a critical transportation link between Interstate 190 and NYS Route 33, and providing enhanced compatibility with adjacent land uses. The feasible alternative being progressed at this time is Alternative 2. For more information on Alternative 2, refer to the Design Report for this project.

Methodology

An Asbestos Assessment consists of a review of record plans and previous environmental inspections of the existing roadway, ramps, bridges and culverts; discussions and/or correspondence with the utility companies and municipalities with utilities located within the project corridor; and a site inspection of the bridges, culverts, roadways within the project corridor. The current design plans do not call for any buildings to be acquired or demolished. This assessment was completed in general accordance with NYSDOT's The Environmental Manual (TEM), Section 4.4.19 Asbestos Management (updated February 2010) and the project scope.

Watts

Architecture &
Engineering

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Distribution: Bergmann & Watts file for project number Y6197

Review of Record Plans

The following record plans were provided by NYSDOT, via Bergmann Associates. Some of the record plans that were provided are of areas that will not be impacted by the proposed work for Alternative 2, as noted below. The review of the record plans identified some known or suspect asbestos-containing materials (ACM). Refer to Attachment B (Excerpts from Record Plan Drawings) for additional information. The following materials were suspect, or identified to be ACM as a result of the review of the provided record plans:

1. FAC50-08: Main St – Humboldt Parkway Underpass – City of Buffalo, dated November 1949.
 - A. Bituminous material
 - B. Expansion joints
 - C. Waterproofing paper
 - D. **Membrane waterproofing**

The first three items are associated with the Main Street (BIN 1001590) and the Kensington Street (BIN 1040000) structures, while the fourth is associated with the lighting. These bridges are not expected to be impacted by this project. However, the membrane waterproofing is present in some areas west of the Main Street underpass that may be impacted by the proposed construction.

2. FAC52-07: Humboldt Parkway Extension – City of Buffalo, dated August 13, 1952.
 - A. **Asbestos washer**
 - B. **Waterproof membrane**
3. FAC63-02: City of Buffalo: Kensington Expressway Arterial Highway Sections 2 and 3, dated July 1961. These record plans are within the proposed project limits; however, they are not applicable since the record plans cover an area that would not be impacted by Alternative 2.
4. D96563: Plans for Reconstructing the Scajaquada Creek Expressway, S.H. SCE 58-1, dated September 1980.
 - A. **Grout**
 - B. **Caulking compound for light poles**
5. D251191: Viaduct Rehabilitation at Routes I-190 and NY 198 Interchange State Highways SCE 59-1, NTC 58-1, NTC 56-3 in Buffalo, dated August 1984. These record plans are within the proposed project limits; however, they are not applicable since the record plans cover an

area that would not be impacted by Alternative 2.

6. D253484: Rehabilitation of Route 5 Bridge (BIN 1001590) over Route 198 State Highway C50-8 in Buffalo, dated July 1990. These record plans are within the proposed project limits; however, they are not applicable since the record plans cover an area that would not be impacted by Alternative 2.
7. D253944: Rehabilitation of Elmwood Avenue Bridge (BIN 1039969) over Route 198 State Highway SCE 58-1 in Buffalo, dated September 1991. These record plans are within the project limits; however, the record plans are not applicable since this bridge is to be removed under a separate DOT contract. Therefore, these record plans were not reviewed.
8. D254901: Rehabilitation of Five Bridges on Various Routes Various State Highways in Buffalo, dated October 1993. (BIN 1039959 - Elmwood Ave Ramp/Connector Roadway over Scajaquada Creek)
 - A. **Compression seal**
 - B. **Type D waterstop**
 - C. **Asbestos sheet packing (removed by a former project)**
9. D256452: Reconstruction of Elmwood Avenue a Length of 0.3 Mile in Buffalo, dated November 1994. No suspect ACM was identified within the project corridor on these record plans.
10. D256530: Rehabilitation of Route 198 Bridge (BIN 1039989) over Delaware Park Lake (a.k.a. Scajaquada Creek) State Highway SCE 58-1 in Buffalo, dated September 1994. No suspect ACM was identified within the project corridor on these record plans.
11. D257325: Reconstruction on Delaware Avenue in the City of Buffalo a Length of 1.6 Kilometers, dated February 1997. ACM was removed as part of the 198 Bridge over Delaware Avenue (BIN 1047259) rehabilitation and no new or suspect ACM was identified for the current bridge.
12. D259335: Rehabilitation of Grant Street Bridge (BIN 1039910) over Route 198 State Highway FASCE 58-1 in Buffalo, dated December 2002. These record plans are within the project limits; however, the record plans are not applicable since no bridge modifications are proposed to this bridge under the Alternative 2.

13. D500201: Rehabilitation of Route 198 Bridge (BIN 1047259) over Route 394 State Highway C52-7 in Buffalo, dated August 1984.
 - A. **Premoulded bituminous joint filler**
 - B. **Waterproof membrane**

14. D500510: Reconstruction on Kensington Expressway State Highways 63-2 and 64-6 a Length of 1.0 Mile (Plus Access) in Buffalo, dated February 1987. These record plans are within the proposed project limits; however, they are not applicable since the record plans cover an area that would not be impacted by Alternative 2.

15. D500580: Scajaquada Creek Bikeway Construction in Buffalo, dated May 1988. No suspect ACM was identified within these record plans.

16. D500751: Rehabilitation of Grant Street Bridge (BIN 1039910) over Route 198 State Highway SCE 58-1 in Buffalo, dated June 1989. These record plans are within the proposed project limits; however, they are not applicable since the record plans cover an area that would not be impacted by Alternative 2.

17. SCE 58-01: Scajaquada Creek Expressway Section 2, dated March 1958. (includes: BIN 1039930 - Grant Street Ramp over Scajaquada Creek, BIN 1039940 - Grant Street Ramp over Scajaquada Creek and BIN 1039970 - Elmwood Ave Ramp over Scajaquada Creek)
 - A. **Grout**
 - B. **Caulking compound**
 - C. **Bituminous material**
 - D. **Felt packing**
 - E. **Compressed asbestos sheet packing**
 - F. **4" asbestos cement ducts for traffic signals**
 - G. **Asphalt roofing felt**
 - H. **Joint filler**
 - I. **2" asbestos conduit**

According to these record plans (including letter "I" above and letter "B" of record plan number 18 below), 2 inch (2") "fiber or asbestos cement" conduit was utilized for the street lighting. The record plans indicate that there is approximately 27,000 linear feet of this street lighting conduit within the project corridor. The amount of linear feet to be disturbed will be assessed during final design.

18. SCE 59-01: Scajaquada Creek Expressway Section 1, dated November 1958.

- A. Bituminous joint material
- B. 2" asbestos cement conduit for street lighting
- C. Traffic signal cable conduit (asbestos cement)
- D. Compressed asbestos sheet packing
- E. Joint sealing compound
- F. Premoulded joint filler

According to these record plans, the traffic signal cables at Grant Street and Elmwood Avenue (letter "C" above) are believed to be sheathed in asbestos cement conduit encased in concrete. The record plans indicate that there is approximately 800 linear feet of this conduit within the project corridor. The amount of linear feet to be disturbed will be assessed during final design.

- 19. SR-198: Scajaquada Expressway Fiber Optic Backbone As-Built, dated June 2009. No suspect ACM was identified within these record plans.
- 20. FASCE61-02: Scajaquada Creek Expressway (at Delaware Park), dated July 1961.
 - A. Expansion joints – preformed joint filler
 - B. Compressed asbestos sheet packing
- 21. BIN 2260460: Alterations to Lincoln Parkway Bridge, dated July 1955.
 - A. Compressed asbestos sheet packing
 - B. Premoulded bituminous joint material
 - C. Waterproofing membrane

Refer to the drawing excerpts in Attachment 2 that have been provided that indicate the identified materials through the record review.

Field Inspection Findings

The following bridges/culverts were inspected on January 9, 2013:

- BIN 1039930 – Grant Street Ramp over Scajaquada Creek
- BIN 1039940 – Grant Street Ramp over Scajaquada Creek
- BIN 1039959 – Elmwood Avenue Ramp/Connector Roadway over Scajaquada Creek
- BIN 1039970 – Elmwood Avenue Ramp over Scajaquada Creek
- BIN 1039989 – NYS Route 198 over Scajaquada Creek
- BIN 1039990 – Pedestrian Bridge over NYS Route 198
- BIN 1047259 – NYS Route 198 over Delaware Avenue (NYS Route 384)
- BIN 2260460 – Lincoln Parkway over Scajaquada Creek

These are the bridges/culverts that are anticipated to be disturbed if construction of the Preferred Alternative (2) is to occur. A New York State Department of Labor (NYSDOL) licensed asbestos inspector from Watts performed a field investigation to identify suspect asbestos-containing materials that might be disturbed during the reconstruction of bridges, roadways, ramps and culverts. No additional suspect materials, beyond those identified under the review of record plans, other than bridge paint for BINs 1039989, 1039959 and 1039970 were visually observed for any of the bridges or culverts identified above. Previous testing of the bridge paint, under unrelated projects, has determined that the paint on these three bridges does not contain asbestos.

On March 12, 2013, Watts walked the remainder of the project corridor to visually identify additional potential suspect ACM outside of the bridge areas. No additional suspect materials (beyond the bridge paint identified above) were observed during the site walkover of remainder of the corridor.

Utility Review Findings

The following is a list of utility companies/municipalities that were contacted that might have lines within the project corridor:

- Verizon Communications
- National Grid
- National Fuel Gas Company
- New York State Electric and Gas
- Time Warner Cable
- City of Buffalo Sewer Department
- City of Buffalo Sewer Authority
- City of Buffalo Water Authority
- City of Buffalo Public Works, Parks and Streets
- Erie County Water Authority

The Erie County Water Authority has reported that they have no waterlines within the project limits. The City of Buffalo Water Department is responsible for the waterlines within this area. The City of Buffalo Water Department reported that no asbestos pipe is present in their system.

Time Warner Cable has reported that they have utility lines along the project corridor; however, the lines within this area do not contain asbestos.

National Fuel Gas has reported they have utility lines within the project corridor.

However, their drawings indicated that the lines within the corridor are constructed of steel, cast iron, plastic, PVC or wrought iron.

Verizon Communications reported they have asbestos-containing utility lines within the project corridor. There are asbestos-containing transite ducts at Elmwood Avenue (12 - 3½" ducts) and Main Street (6 – 3" ducts) and Loring Avenue (4 - 3½" CEM ducts).

No responses from the other utility companies/municipalities have been received. If any additional responses are received, the information will be included in the design documents, if necessary.

Prior to any excavation, all contractors will be required to notify the One Call center (Call 811) in accordance with regulations. This is typically done 3 to 10 days prior to starting any work that might be considered excavation or demolition.

If there are additional utility lines with suspect ACM identified during the construction period, it is recommended that representative samples be collected and analyzed by the utility owner(s) for asbestos.

NYSDOT Provided Information

NYSDOT provided an asbestos assessment database for all of Region 5, three local asbestos assessments for review and a summary of the bridge paint testing for one of the bridges.

Watts reviewed the NYSDOT asbestos assessment database. Sampling records within the corridor were only available for BINs 1039910 (Grant Street over Route 198), 1001590 (Main Street over NYS Route 198), and 1040000 (Kensington Avenue over NYS Route 198). These bridges are within the project limits; however, these database records are not applicable since these bridges are outside of the area to be impacted by the Alternative 2.

The three local asbestos assessment reports that were reviewed for this project are as follows:

Asbestos Survey Report for BIN 1039989 (Route 198 Bridge over Scajaquada Creek), Buffalo, New York, PIN 5811.88.101, Prepared By: Lu Engineers, April 2012:

BIN 1039989 (Route 198 Bridge over Scajaquada Creek) was inspected for the presence of ACMs under a previous NYSDOT project (PIN

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5811.88.101 – Joint Replacement Project). The paint on this bridge has been tested and no asbestos was detected in the paint. Sampling verified that compressed asbestos sheet packing was identified between the abutments and the bridge deck on both ends of the bridge (approximately 185 square feet for BIN 1039989). The compressed asbestos sheet packing was not scheduled to be removed as part of PIN 5811.88.101.

Asbestos Survey Report for BIN 1039970 (Elmwood Ave Ramp over Scajaquada Creek), Buffalo, New York, PIN 5811.88.101, Prepared By: Lu Engineers, April 2012:

BIN 1039970 (Elmwood Ave Ramp over Scajaquada Creek) was inspected for the presence of ACMs under a previous NYSDOT project (PIN 5811.88.101 – Joint Replacement Project). The paint on this bridge was not tested under this investigation. However, the paint was previously tested as part of PIN 5807.77.101 and no asbestos was detected in the paint. Sampling verified that compressed asbestos sheet packing was identified between the abutments and the bridge deck on both ends of the bridge (approximately 170 square feet for BIN 1039970). The compressed asbestos sheet packing was not scheduled to be removed as part of PIN 5811.88.101.

Asbestos Sampling Survey for BIN 1047259 (Route 198 over Delaware Avenue), Buffalo, Erie County, NY, PIN 5470.24.101, by NYSDOT Region 5 Staff, September 6, 2007:

BIN 1047259 (Route 198 over Delaware Avenue) was inspected for the presence of ACMs under a previous NYSDOT project (PIN 5470.24.101 – Bridge Rehabilitation Project). The inspection identified asbestos-containing gaskets on five of the eight wall mounted light fixtures within the arch barrels of the bridge (approximately 8 linear feet total). The light fixtures were not replaced as part of PIN 5470.24.101 so the gaskets still remain. The paint on this bridge was not tested under PIN 5470.24.101.

Information was provided for the paint that was tested for BIN 1039959 (Elmwood Avenue Ramp/Connector Roadway over Scajaquada Creek). No asbestos was detected in the bridge paint.

Conclusions and Recommendations

Below is a list of findings based on review of the record plans, site visits, and

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information obtained from the utility companies/municipalities.

Suspect ACMs were identified within the following record plans: 1, 2, 4, 8, 13, 17, 18, 20, and 21. Details on these findings can be found in the "Review of Record Plans" section above. It is recommended that representative samples of the "fiber or asbestos cement" conduit for the street lighting that was identified by review of the record plans (from Record Plan Numbers 17 and 18, above) be collected and analyzed to positively identify the asbestos content rather than assuming it to be asbestos-containing. The large quantity of conduit would have a significant cost impact on the project if it is handled as asbestos-containing when it may contain non-asbestos fibers. Aside from this street lighting conduit, no other sampling is being proposed during design for the other items found on the record plans above since they will be assumed ACM, based on the record plan information.

The suspect materials identified on the record plans should be sampled during construction if/when they are identified. These suspect materials include, but are not limited to:

- Bituminous material (joint or filler material)
- Expansion joints
- Waterproofing paper
- Membrane waterproofing
- Pipe insulation (barrier jacket)
- Asphalt roofing material
- Grout
- Caulking compound for light poles
- Sealing compound
- Waterstop
- Compression seal
- Felt packing

Until sampled, these materials should be assumed to be asbestos-containing. The quantities of each of these suspect ACMs to be disturbed will be assessed during final design.

Paint was visually observed on three of the involved bridges and culverts during the field inspection. As part of the NYSDOT provided information, sampling information for paint on the applicable bridges was available for BIN 1039989 (Route 198 Bridge over Scajaquada Creek), BIN 1039970 (Elmwood Avenue Ramp over Scajaquada Creek) and BIN 1039959 (Elmwood Avenue Ramp/Connector Roadway over Scajaquada Creek). According to the

information provided, no asbestos was detected in the paint samples on these bridges.

No suspect paint was identified on BIN 1039930 (Grant Street Ramp over Scajaquada Creek), BIN 1039940 (Grant Street Ramp over Scajaquada Creek), BIN 1039990 (Pedestrian bridge over NYS Route 198), BIN 2260460 (Lincoln Parkway over Scajaquada Creek), or BIN 1047259 (NYS Route 198 over Delaware Avenue). BINs 1039930, 1039940, 1039990 and 2260460 are unpainted concrete construction and BIN 1047259 is constructed of stone and is unpainted.

The asbestos-containing transite ducts reported by Verizon Communications will need to be assessed to determine if they will be impacted by the project. The locations of these ducts are Elmwood Avenue, Main Street and Loring Avenue.

Under an unrelated NYSDOT project (PIN 5811.88.101), asbestos inspections of BINs 1039970 (Elmwood Ave Ramp over Scajaquada Creek) and BIN 1039989 (Route 198 Bridge over Scajaquada Creek) revealed the presence of compressed asbestos sheet packing between the abutments and the bridge deck on both ends of both bridges (approximately 170 square feet for BIN 1039970 and 185 square feet for BIN 1039989). The compressed asbestos sheet packing is still present since it was not scheduled to be removed as part of PIN 5811.88.101.

Under another unrelated NYSDOT project (PIN 5470.24.101), an asbestos inspection of BIN 1047259 (NYS Route 198 over Delaware Avenue) identified asbestos-containing gaskets on five of the eight wall mounted light fixtures within the arch barrels of the bridge (approximately 8 linear feet total). The light fixtures were not replaced as part of the previous project so the gaskets still remain.

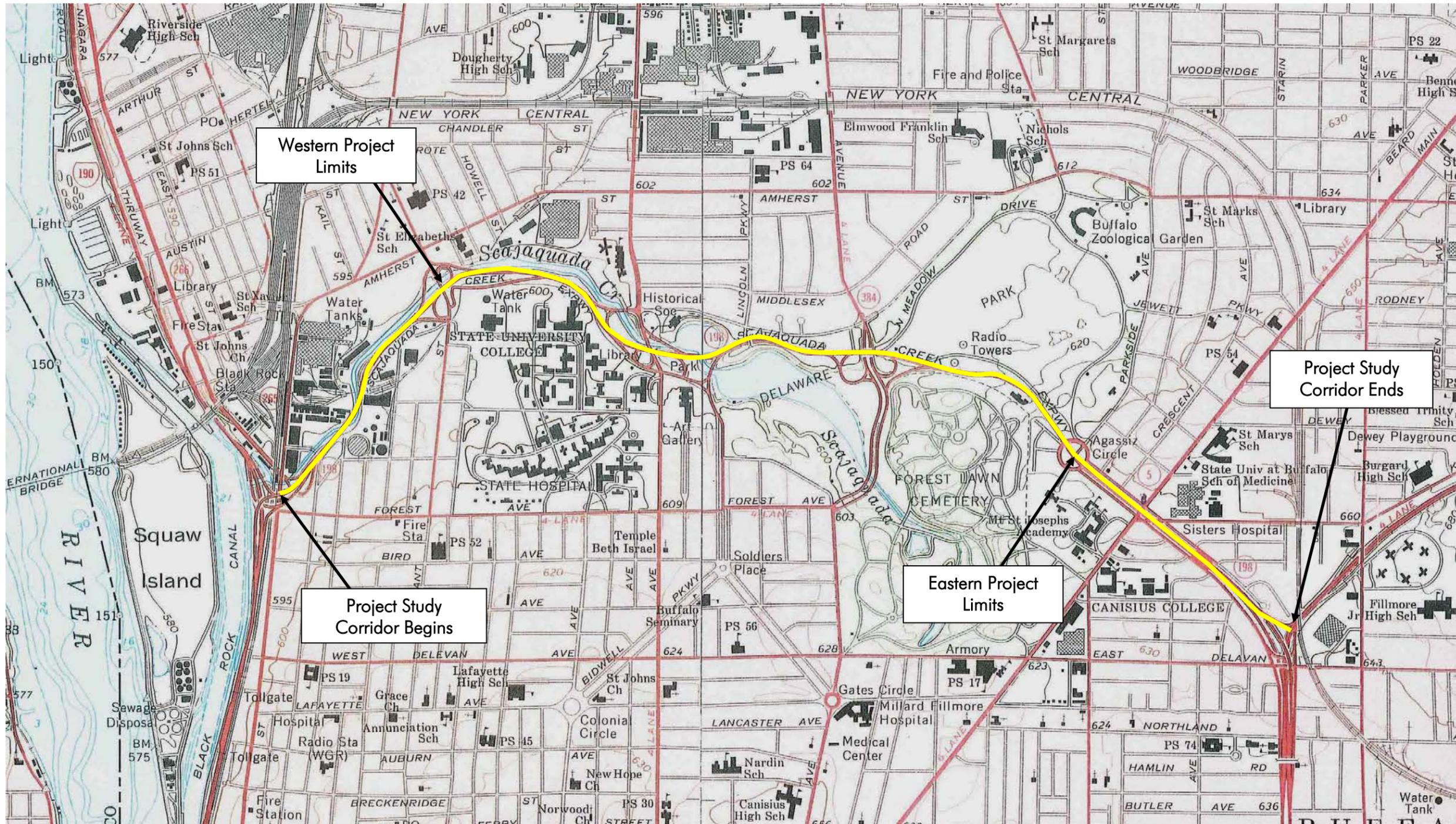
Any removal/disturbance of asbestos-containing materials will need to be performed by a New York State licensed asbestos abatement contractor. It is recommended that Blanket Variance 14 be utilized for the removal of the identified asbestos-containing materials.

If any additional suspect material is observed during the construction period, the Construction Inspector/Engineer in Charge should be immediately notified. Representative samples of the suspect materials should be collected and analyzed for asbestos content in accordance with NYSDOT procedures.

Contract No. D015557 - PIN 5470.22.121
NYS Route 198 (Scajaquada Expressway): Grant Street to Parkside Avenue, Erie County
Asbestos Assessment
December 4, 2013 (Updated June 2016)

ATTACHMENT A

PROJECT LOCATION MAP



PROJECT LOCATION



**Watts Architecture &
Engineering**
95 Perry Street, Suite 300
Buffalo, New York 14203

Source:
USGS 7.5 x 15' QUADRANGLES
"Buffalo, NE" and "Buffalo, NW"
1965

Figure 1 - Project Location Map

**NYS Route 198 – Scajaquada Expressway
PIN 5470.22
Buffalo, Erie County, New York**

Not to Scale

June 2016

Contract No. D015557 - PIN 5470.22.121
NYS Route 198 (Scajaguada Expressway): Grant Street to Parkside Avenue, Erie County
Asbestos Assessment
December 4, 2013 (Updated June 2016)

ATTACHMENT B

EXCERPTS FROM RECORD PLAN DRAWINGS

MFI

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	U-1087(1)		1	85

MAIN ST.-HUMBOLDT PKWY. UNDERPASS,
CITY OF BUFFALO

STATE OF NEW YORK
DEPARTMENT OF PUBLIC WORKS
DIVISION OF CONSTRUCTION

PLANS FOR CONSTRUCTING WITH FEDERAL AID THE
IN ST.-HUMBOLDT PARKWAY UNDERPASS
City of Buffalo

From Station H64+75 to Station H97+80, a length of 0.63 mile in the City of Buffalo

85 H.P.B. PROJECT No. U-1087(1) CONTRACT No. FAC 50-8

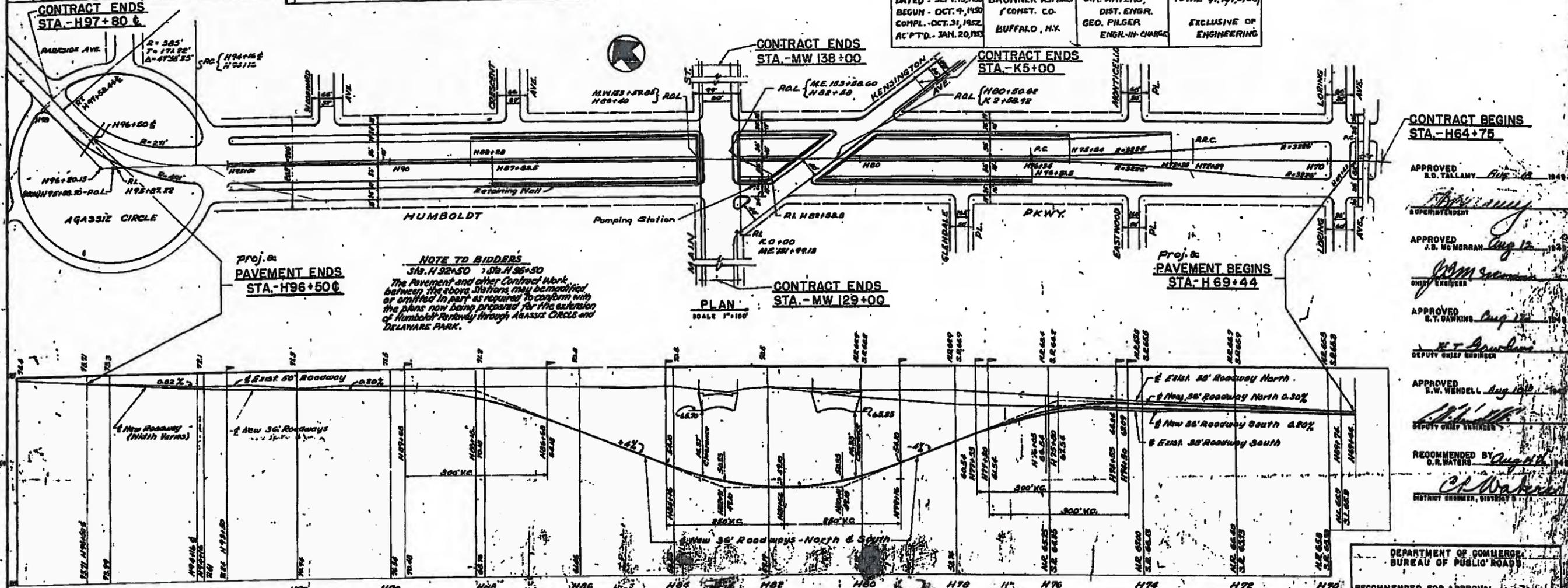
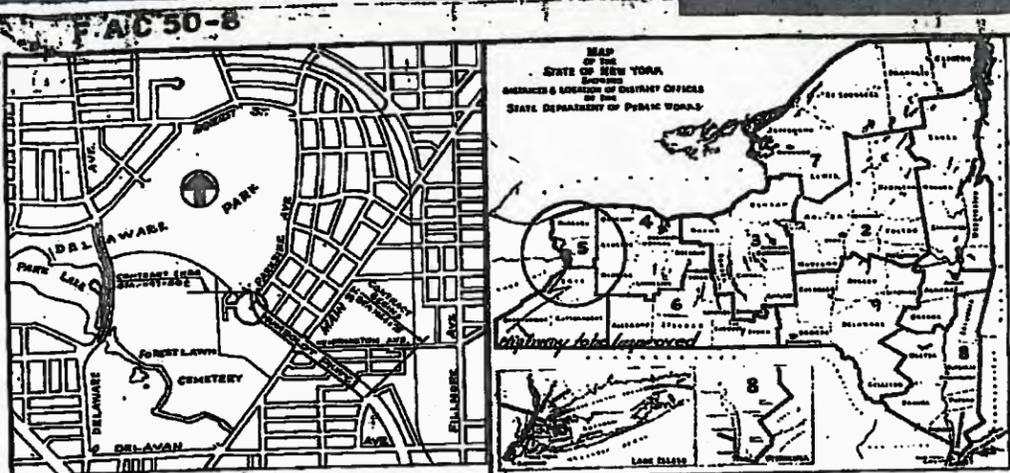
ERIE COUNTY

CONTRACT	CONTRACTOR	ENGINEER	COST
DATED - SEPT. 15, 1952 BEGUN - OCT. 9, 1952 COMPL. - OCT. 31, 1952 AC'PTD. - JAN. 20, 1953	DRUNNER ASPHALT & CONST. CO. BUFFALO, N.Y.	C.R. WATERS, DIST. ENGR. GEO. PILGER ENGR. IN CHARGE	TOTAL \$1,997,010.57 EXCLUSIVE OF ENGINEERING

TYPE OF CONSTRUCTION
Asphalt Concrete, Type 2A 0.51 Mile
Miscellaneous Work 0.12 Mile
Including
Main St. Structure-2 Span Continuous I Beam (Alpha)
50' each Span
Kensington Ave. Structure-2 Span Continuous I Beam
(Alpha) 52' each Span

STANDARD STRUCTURE SHEETS
46-4, 46-16, 48-39, 49-7, 49-11R, 49-11W, 49-43,
49-44, 49-68, 50-34, 50-35R

All work contemplated under this contract to be covered by and in conformity with the specifications adopted January 2, 1947, except as modified on these plans and in the itemized Proposal.



Proj. &
PAVEMENT ENDS
STA.-H96+50

NOTE TO BIDDERS
Sta. H 92+50 to Sta. H 96+50
The Pavement and other Contract Work between the above stations may be modified or omitted in part as required to conform with the plans now being prepared for the extension of Humboldt Parkway through Agassiz Circle and Delaware Park.

PLAN
SCALE 1"=100'

Proj. &
PAVEMENT BEGINS
STA.-H 69+44

PROFILE
HORIZ. SCALE 1"=100'
VERT. SCALE 1"=10'

CONTRACT BEGINS
STA.-H64+75

- APPROVED
E.D. TALLAMY Aug 12 1952
SUPERINTENDENT
- APPROVED
J.B. MCMORRAN Aug 12 1952
CHIEF ENGINEER
- APPROVED
E.T. DAWKINS Aug 12 1952
DEPUTY CHIEF ENGINEER
- APPROVED
E.W. WENDELL Aug 12 1952
DEPUTY CHIEF ENGINEER
- RECOMMENDED BY
C.R. WATERS Aug 12 1952
DISTRICT ENGINEER, DISTRICT 8

DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS	
RECOMMENDED FOR APPROVAL	
DISTRICT ENGINEER	
APPROVED	

APPROVED BY CITY OF BUFFALO

PREPARED AND RECOMMENDED BY
A. S. COLLIER
DATE 6-18-53
DATE 10-11-56

TOTAL ESTIMATE OF QUANTITIES

FINAL NO.	ITEM	UNIT	NEAT	ROUND
16	Clearing and Grubbing	LS	Nec.	Nec.
17	Furnishing and Applying Water	M Gals.	90	100
18	Classified Earth Excavation	CY	33,306	36,000
19	Classified Back Excavation	CY	97,887	61,000
20	Trench, Culvert and Bridge Excavation	CY	16,058	17,000
21	Drainage Road Section	LF	2,706	2,800
22	Preparing Fine Grads	SY	31,521	35,000
23	Sewer Pipe - Vitrified - 4" Diam.	LF	200	220
24	Sewer Pipe - Vitrified - 6" Diam.	LF	1,215	1,280
25	Sewer Pipe - Optional - 6" Diam.	LF	481	520
26	Sewer Pipe - Optional - 10" Diam.	LF	900	900
27	Sewer Pipe - Optional - 12" Diam.	LF	770	810
28	Sewer Pipe - Optional - 15" Diam.	LF	1,122	1,200
29	Sewer Pipe - Optional - 18" Diam.	LF	36	42
30	Sewer Pipe - Optional - 24" Diam.	LF	45	48
31	Perforated Vitrified Clay Pipe Underdrain - 4" Dia.	LF	520	570
32	Perforated Vitrified Clay Pipe Underdrain - 6" Dia.	LF	2,285	2,400
33	Reinforced Concrete Culvert Pipe 12" Diam.	LF	109	109
34	Reinforced Concrete Culvert Pipe 18" Diam.	LF	2,778	300
35	Reinforced Concrete Culvert Pipe 24" Diam.	LF	1,853	240
36	Reinforced Concrete Sewer Pipe 36" Diam.	LF	378	400
37	Reinforced Concrete Sewer Pipe 48" Diam.	LF	2,182	2,200
38	Reinforced Concrete Sewer Pipe 60" Diam.	LF	2,080	2,200
39	Portland Cement Type 2	Tons	1,092	1,140
40	Natural Cement Type 2	Tons	14,570	17,280
41	Portland Cement - Type 2A	Tons	1,631	1,600
42	Class II - Concrete for Structures	CY	3,216	3,560
43	Class I - Concrete	CY	802	840
44	Class E - Concrete	CY	70	75
45	Dimension Masonry	CY	30	35
46	Dimension Masonry	CY	104	110
47	Dimension Masonry	CY	3,119	3,370
48	Suble Stone Masonry	CY	264	290
49	Steel Fabric Reinforcement	Lbs.	1,408	1,500
50	Bar Reinforcement for Concrete Pavement	Lbs.	3,100	3,250
51	Longitudinal Joint Supports - Optional	Lbs.	252,320	260,000
52	Bar Reinforcement for Structures	Lbs.	10,810	11,300
53	Structural Steel	Lbs.	26,205	28,000
54	Miscellaneous Metals	Lbs.	515	550
55	Foundation Course - E.O.B. Gravel, Slag, E.O.C. Stone	CY	7,108	7,500
56	Bedding Course - Bituminous Macadam	CY	965	1,000
57	Concrete Foundation for Pavement	CY	7,360	7,500
58	Asphalt Concrete - Type 2A	Tons	7,680	8,000
59	Asphalt Concrete - Optional	Tons	33	35
60	Bituminous Material Damp-Proofing	Gals.	144	150
61	Membrane Waterproofing	SY	2,208	2,300
62	Protection Course for Membrane Waterproofing	SY	87	90
63	Bituminous Material A - Paving	Gals.	19,014	19,500
64	Maintenance and Protection of Traffic	LS	Nec.	Nec.
65	Day Stone Filling	SY	383	400
66	Day Stone Filling	SY	188	190
67	Clearing Existing Pavement	SY	981	1,050
68	Repaired Driveway Broken Stone L.H.	SY	85	90
69	Stone Curb and Headers	LF	8,958	9,400
70	Stone Curb on Structures	LF	280	310
71	Re-setting Old Curb	LF	6,272	6,500
72	Catch Basins, Manholes and Drop Inlets	CY	182	190
73	Re-setting Manholes and Catch Basins	EA	15	15
74	Re-set Existing Cast Iron Receivers	EA	18	18
75	New Cast Iron Receivers	EA	27	30
76	Concrete Sidewalk	SY	900	950
77	Remove, Store and Re-erect Fence	LF	88	95
78	Temporary Fence	LF	257	260
79	Timber and Lumber Barricade	LF	750	900
80	Crossed Timber and Lumber	MFBM	3	1
81	Re-laying Old Pipe	LF	90	100
82	E.O.B. Gravel, Slag or E.O.C. Stone Fill	CY	3,786	4,000
83	Topsoil placed from Stockpiles	CY	2,282	2,300
84	Ground Preparation with Soil Amendments and Fertilizers for Seeding or Sodding.	Aeres	2.07	2.20
85	Fertilizers for Seeding or Sodding.	Aeres	2.07	2.20
86	Furnishing Seed and Sodding	LS	See Sched.	15,542
87	Furnishing Plants and Planting	LS	See Sched.	2,542
88	Transplanting Large Trees	EA	2	2
89	Furnishing and Planting Cutback Chittens	Tons	9	10
90	Cast Iron Water Pipe - 3" Dia.	LF	15	20
91	Cast Iron Water Pipe - 4" Dia.	LF	180	170
92	Cast Iron Water Pipe - 6" Dia.	LF	155	165
93	Cast Iron Water Pipe - 8" Dia.	LF	63	70
94	Cast Iron Water Pipe - 10" Dia.	LF	75	80
95	Cast Iron Water Pipe - 12" Dia.	LF	291	300
96	Cast Iron Water Pipe - 15" Dia.	LF	4	10
97	Cast Iron Water Pipe - 18" Dia.	LF	11	15
98	Cast Iron Water Pipe - 24" Dia.	LF	48	60
99	Cast Iron Water Pipe - 36" Dia.	LF	23	30
100	Valves for Water - 3" Dia.	EA	2	2
101	Valves for Water - 4" Dia.	EA	1	1
102	Valves for Water - 6" Dia.	EA	4	4
103	Valves for Water - 8" Dia.	EA	2	2
104	Valves for Water - 10" Dia.	EA	2	2

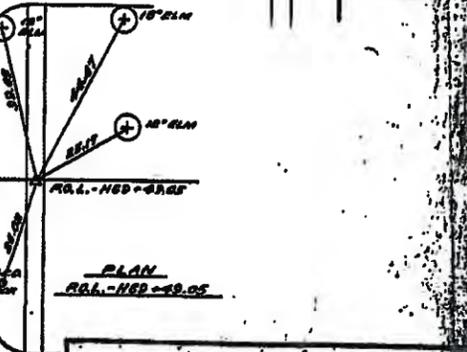
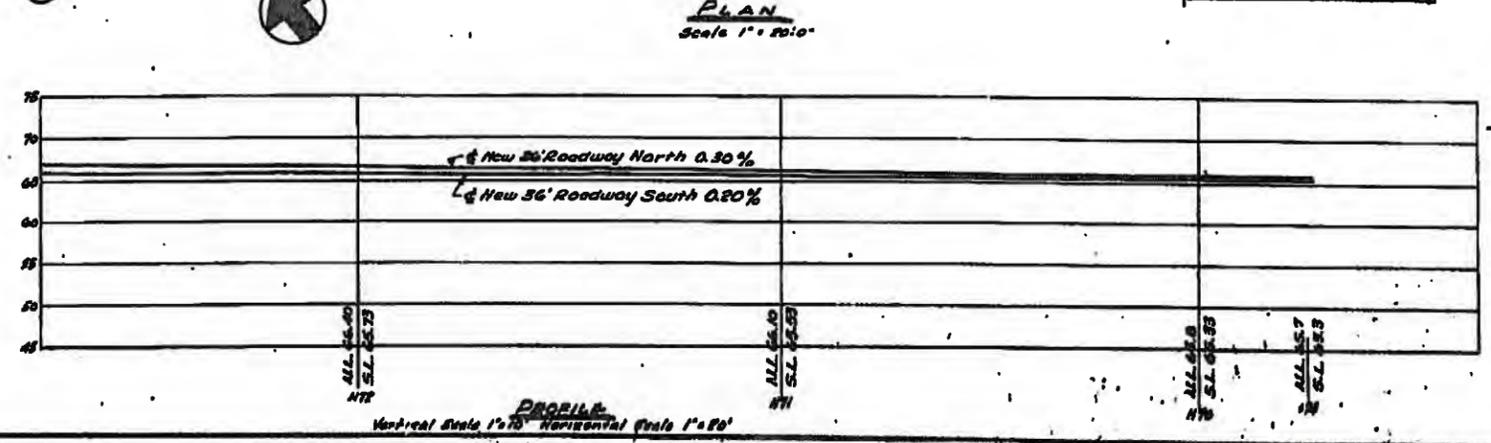
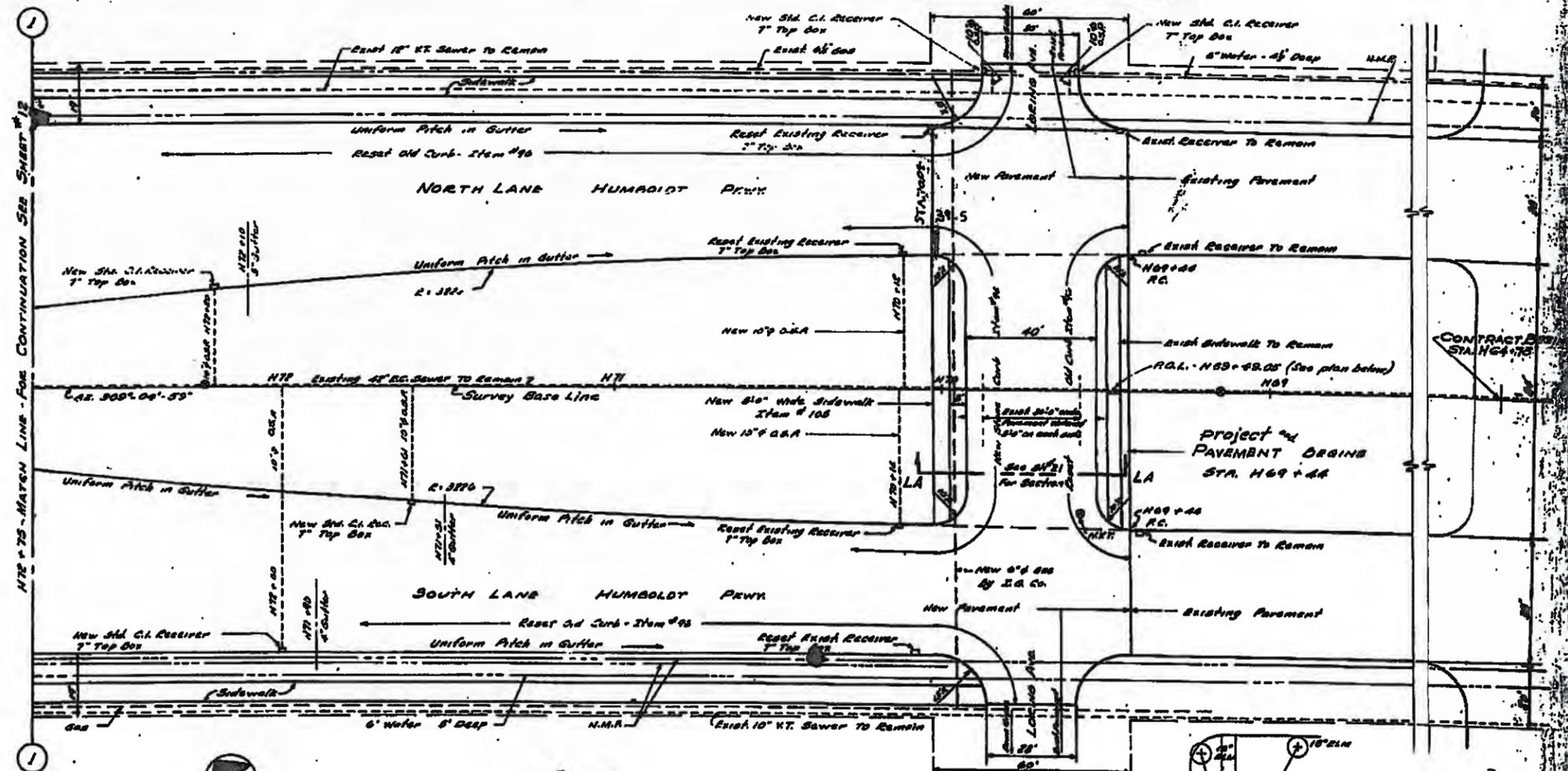
NO.	ITEM	UNIT	NEAT	ROUND
2032C	Valves for Water Furnished - 8" Dia.	EA	5	6
2032F	Valves for Water Furnished - 10" Dia.	EA	3	3
2032E	Valves for Water Furnished - 12" Dia.	EA	1	1
2038	Connections to Existing City Water Mains	LS	Nec.	Nec.
2039	Fire Hydrants Furnished and Installed	EA	4	5
2040	Existing Fire Hydrants Removed	EA	4	4
2041	Fire Alarm Boxes Relocated	LS	Nec.	Nec.
2042	Police Call Boxes Relocated	LS	Nec.	Nec.
2043	Traffic Control Signals	LS	Nec.	Nec.
2044	Water Service Valves Relocated	LS	Nec.	Nec.
2045	Street Lighting Standards	EA	38	38
210A	Cast Iron Soil Pipe - 4" Diam.	LF	13	15
210B	Cast Iron Soil Pipe - 6" Diam.	LF	28	30
210C	Cast Iron Soil Pipe - 8" Diam.	LF	11	15

NO.	ITEM	UNIT	NEAT	ROUND
211A	2000 GPM Centrifugal Pumps	EA	2	2
211B	Motors for 2000 GPM Pumps	EA	2	2
212	50 GPM Pump Including Motor and Foot	EA	1	1
213	Centrifugal Blower and Motor	EA	1	1
214	Floor Control Switches	EA	2	2
215	Architectural Metal Work	LS	Nec.	Nec.
216	Electrical Materials and Installation	LS	Nec.	Nec.
217A	Wrought Iron Pipe - 2" Diam.	LF	27	25
218	Chain Hoist	EA	1	1

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOT. SHEETS
1	N.Y.	U-10870		11	24

MAIN ST.-HUMBOLDT PKWY-UNDERPASS
CITY OF BUFFALO

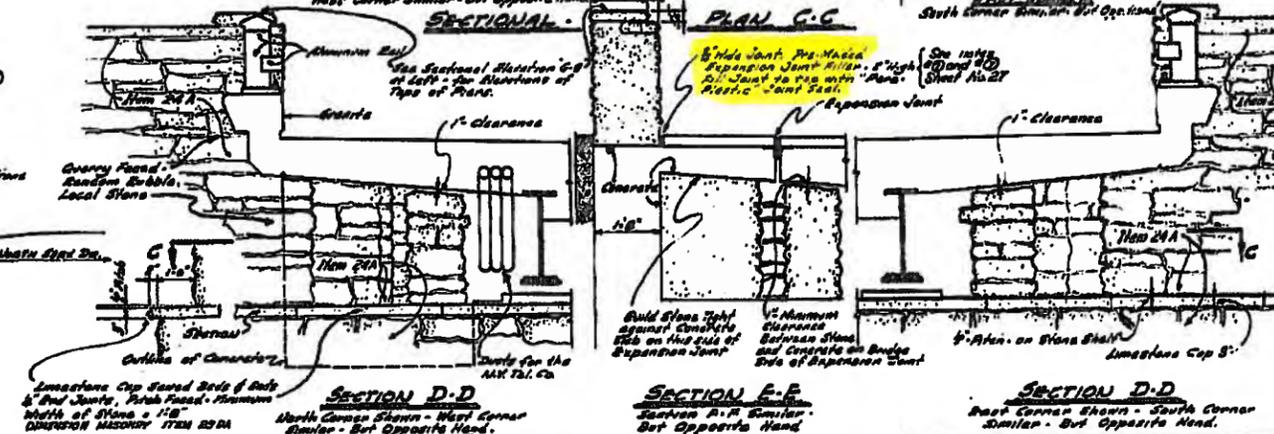
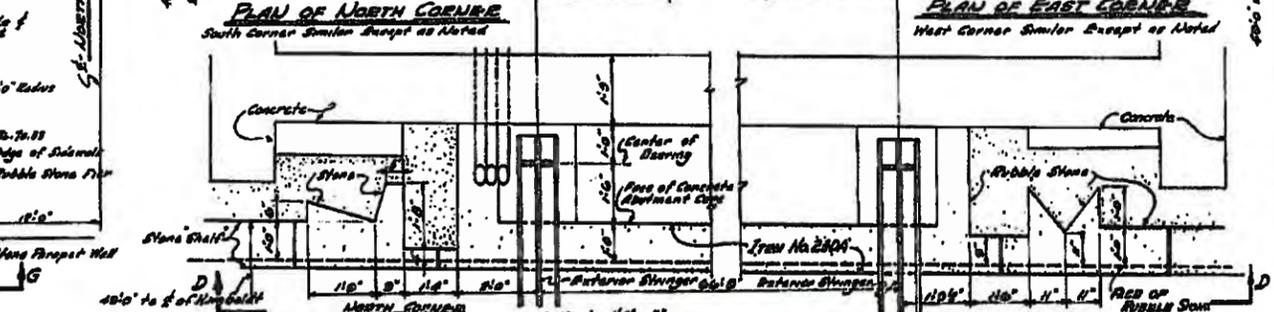
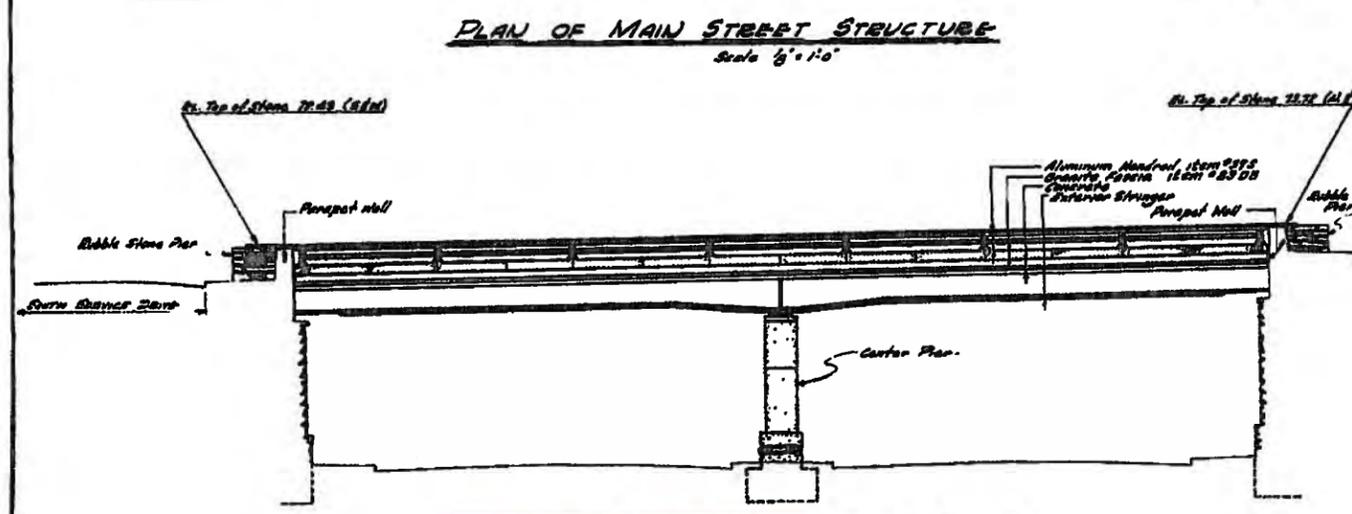
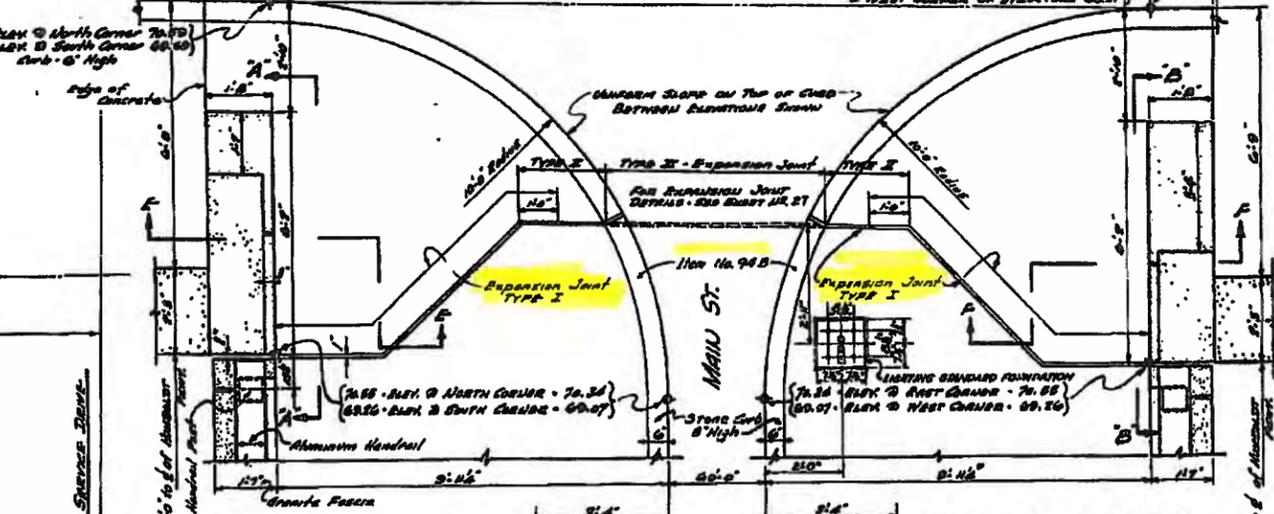
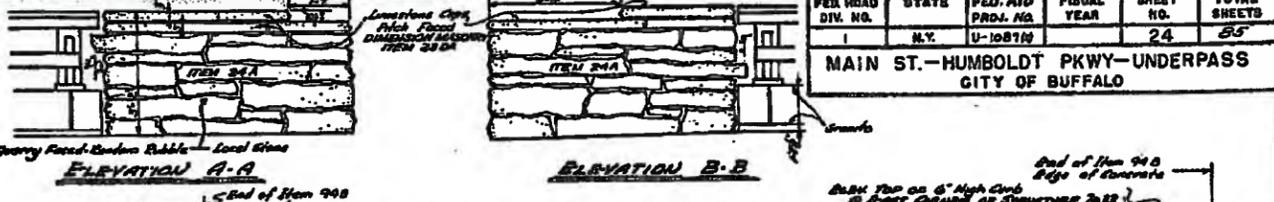
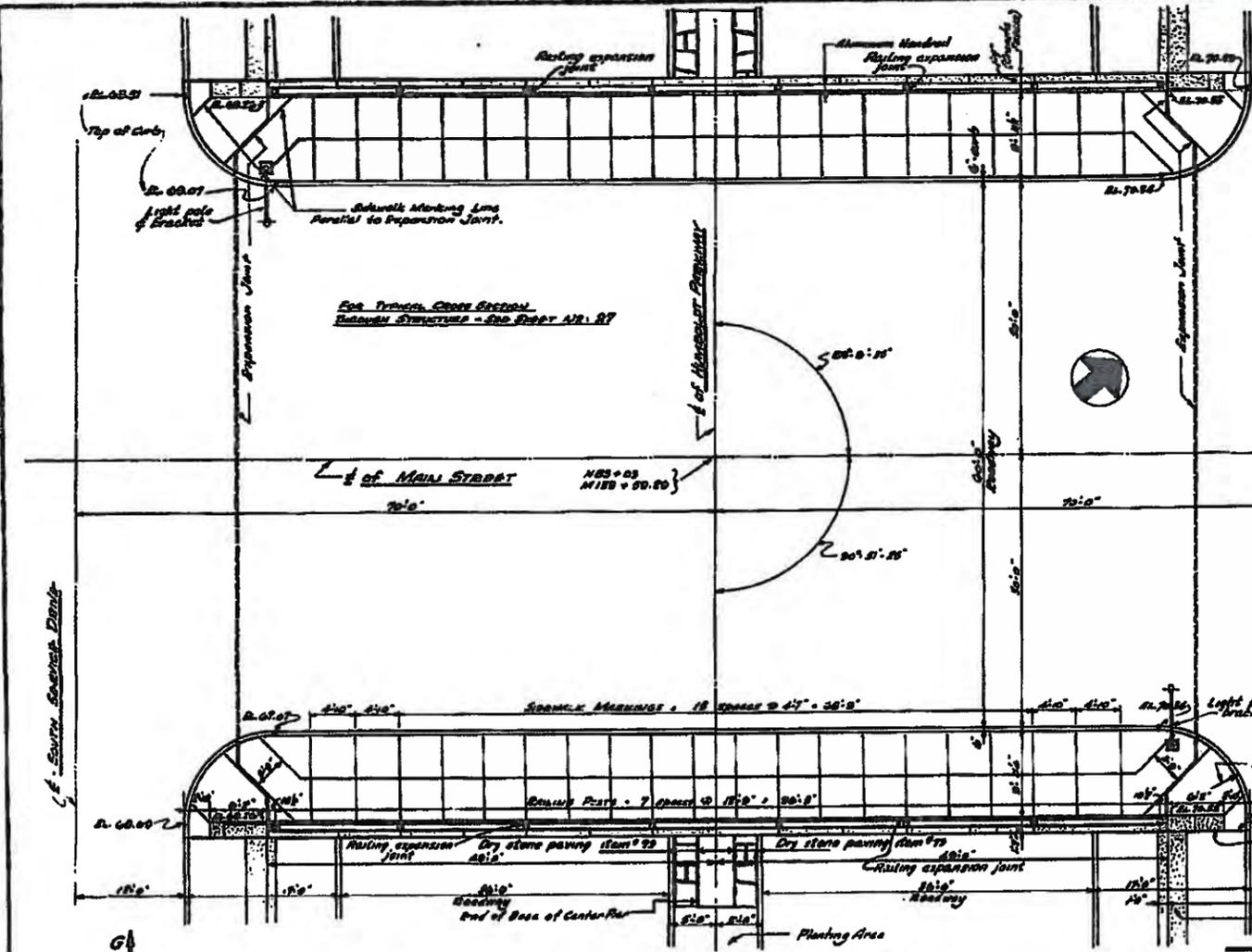
Notes:-
Re-set Existing C.I. Receiver - ITEM NO 102A
New C.I. Receiver - ITEM NO 102B
10" E.O.B. - ITEM NO 98B
See Sheet No 21 - For Street Lighting.



LIST OF ITEMS AND QUANTITIES
PLAN AND PROFILE OF HUMBOLDT PKWY.
STA. H69+44 TO STA. H72+70
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-108719		24	25

MAIN ST.-HUMBOLDT PKWY-UNDERPASS
CITY OF BUFFALO

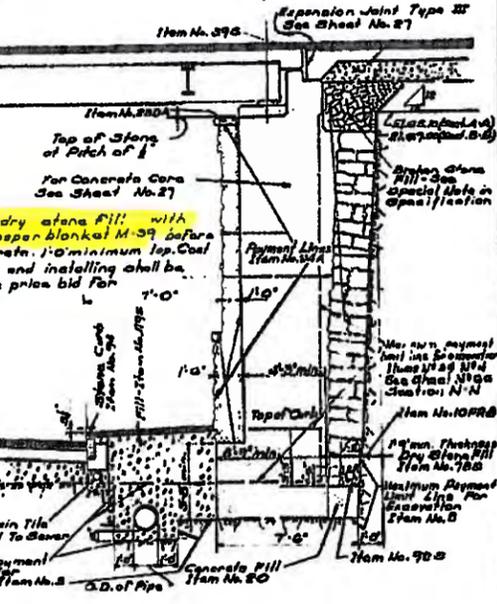
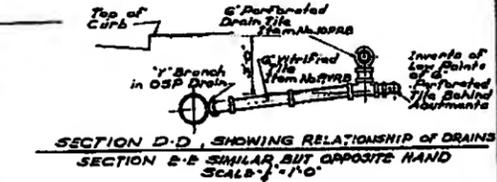
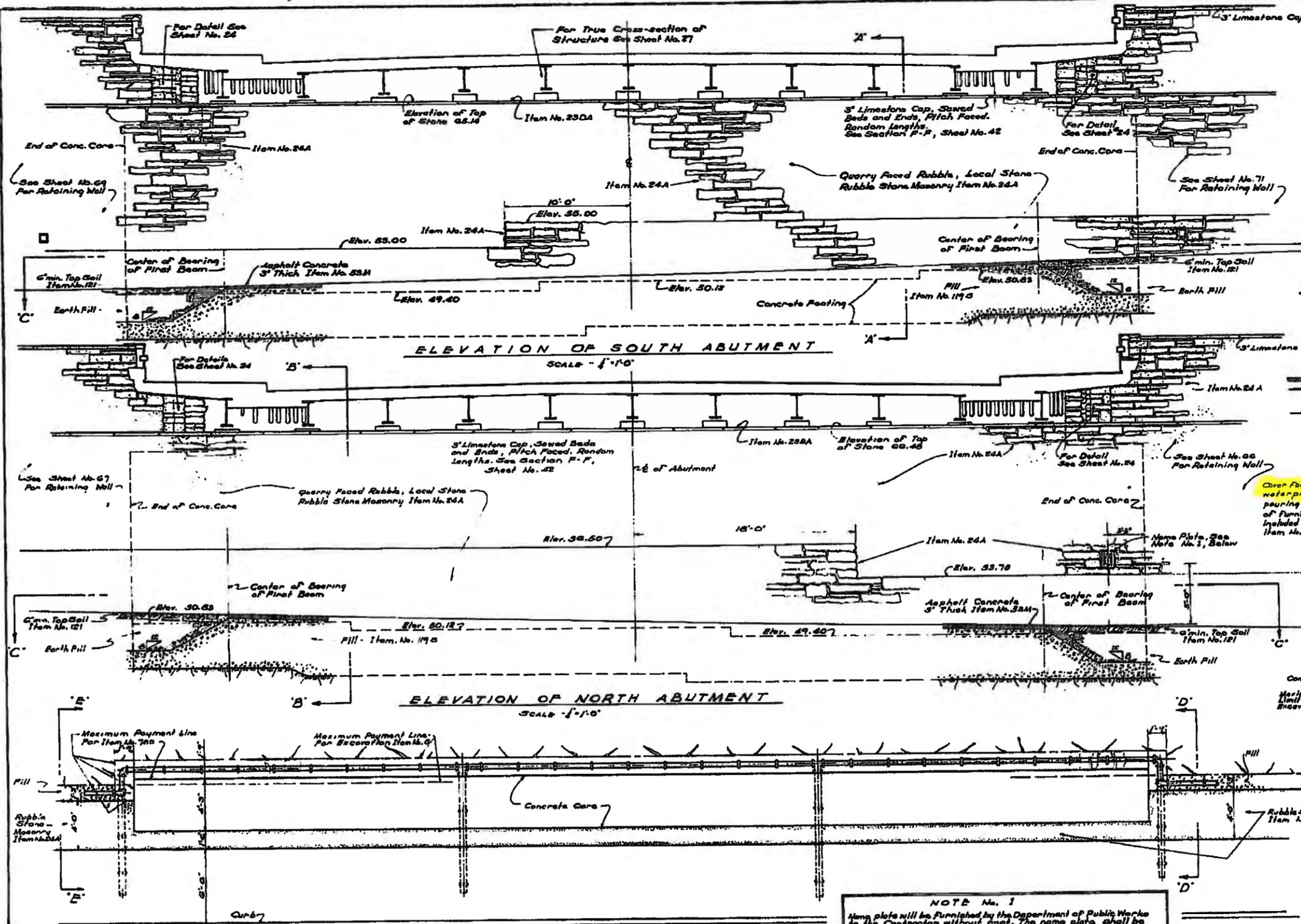


MAIN STREET BRIDGE PLAN-ELEVATION-DETAILS	
STATE OF NEW YORK-DEPT OF PUBLIC WORKS	
DRAWN C.E.R. 8-11-48	CHECKED C.S. 10-20-47
TRACED H.J. 10-19-48	



FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	U-10870		25	25

MAIN ST. - HUMBOLDT PKWY. - UNDERPASS
CITY OF BUFFALO



NOTE:
All Stone of Abutment Facing shall be anchored to Concrete Core with Adjustable Anchors in Dowel Sinks. See Concrete Core Details for Locations of Sinks. Vertical Spacing of Anchors shall be 3'-0" or less. See Sheet No. 24 for Detail of Anchors and Sinks. Cost of Furnishing and installing shall be included in the Price Bid for Item No. 24.
Stone Facing on Abutments and adjacent Retaining Walls to be built at the same time and bonded together.
No direct payment will be made for earth fill.

NOTE No. 1
Name plate will be furnished by the Department of Public Works to the Contractor without cost. The name plate shall be pre-cast in a block of Concrete (Class I) 12" x 6" Face dimensions by 17" in depth, banded by around face. Setting details shown on N.Y.D.P.W. Standard Structure sheet No. 43-44 shall be followed. The block with name plate shall be set into wall as masonry progresses. Do not remove it from board covering name plate until directed by engineer. Cost of 2000 cubic feet block and labor shall be paid for at the unit price for Item No. 24A.

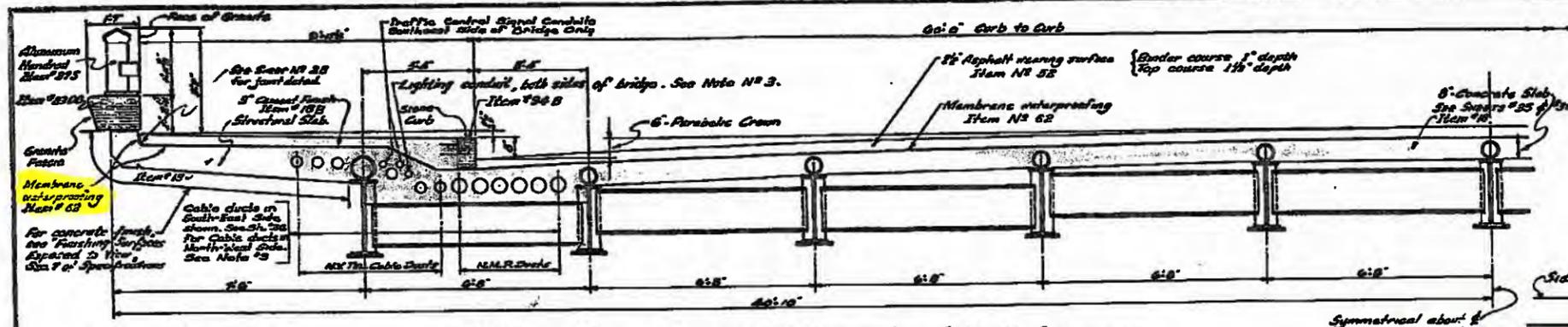
SECTIONAL PLAN C-C
SCALE - 1/4" = 1'-0"

MAIN STREET BRIDGE	
ELEVATIONS AND SECTIONS OF ABUTMENTS	
STATE OF NEW YORK - DEPT OF PUBLIC WORKS	
DRAWN C.P.D.	7/1/41
CHECKED C.P.D.	11-10-41
TRACED A.P.R.	1/6/44

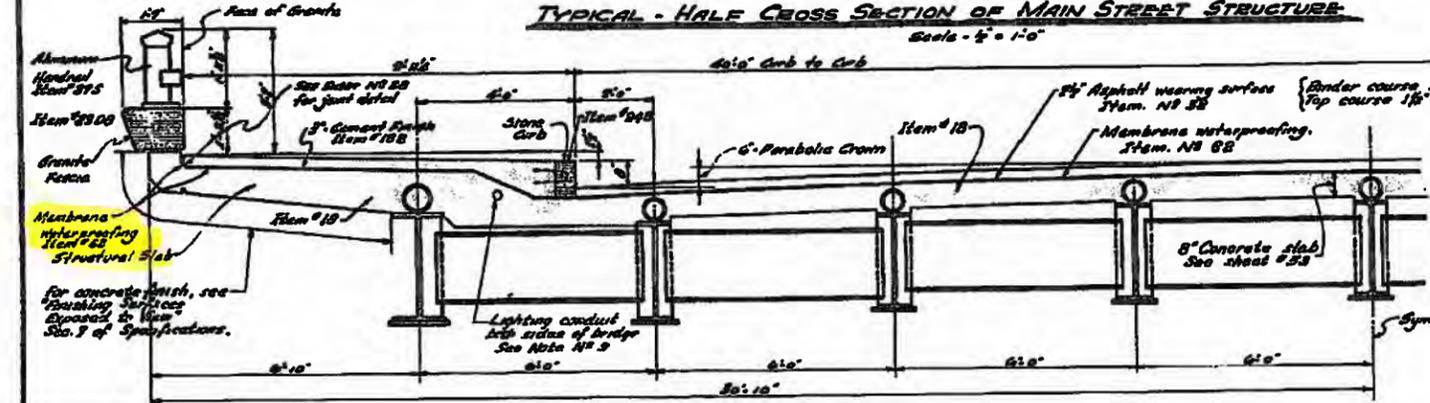


FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	U-10870		27	85

MAIN ST.-HUMBOLDT PKWY.-UNDERPASS
CITY OF BUFFALO



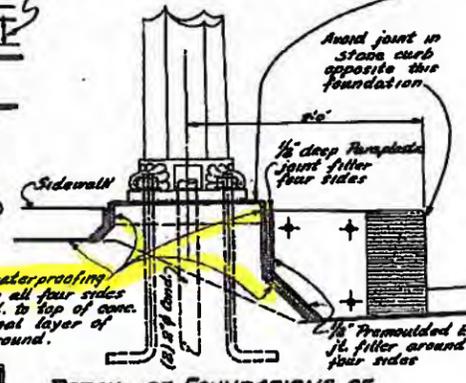
TYPICAL - HALF CROSS SECTION OF MAIN STREET STRUCTURE
Scale - 1/2" = 1'-0"



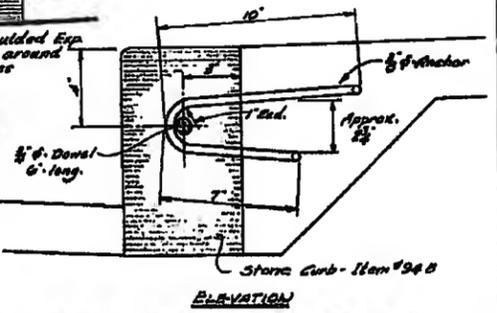
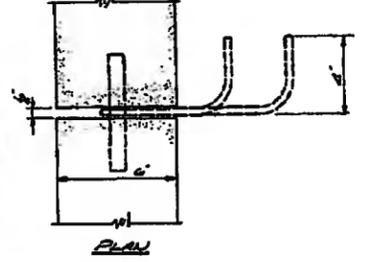
TYPICAL - HALF CROSS SECTION OF KENSINGTON AVE. STRUCTURE
Scale - 1/2" = 1'-0"

NOTE # 3
Lighting conduits and cable ducts will be furnished by the various utility companies but cost of installing same shall be included in the contract price bid for Item # 18 unless otherwise noted to the contrary.

NOTE # 4
Anchor bolts for light standards will be paid for at the contract price bid for item # 25.

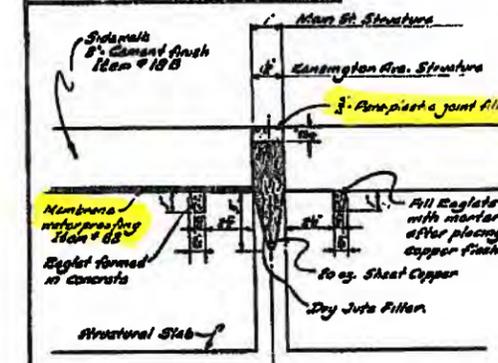


DETAIL OF FOUNDATIONS OF STREET LIGHTING STANDARDS



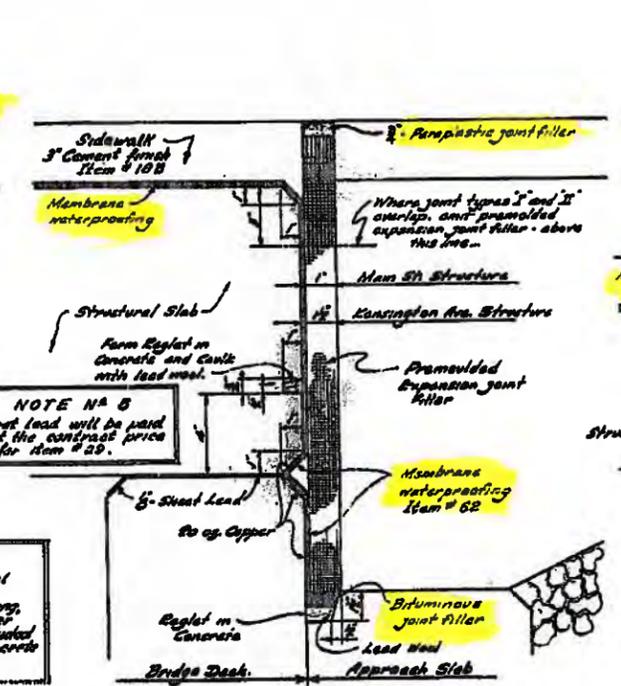
DETAIL OF TYPICAL CURB ANCHOR
Scale - 3/4" = 1'-0"

NOTE # 2
The cost of furnishing and installing curb anchor rods and plates and curb dowels shall be included in the contract price bid for item # 25.



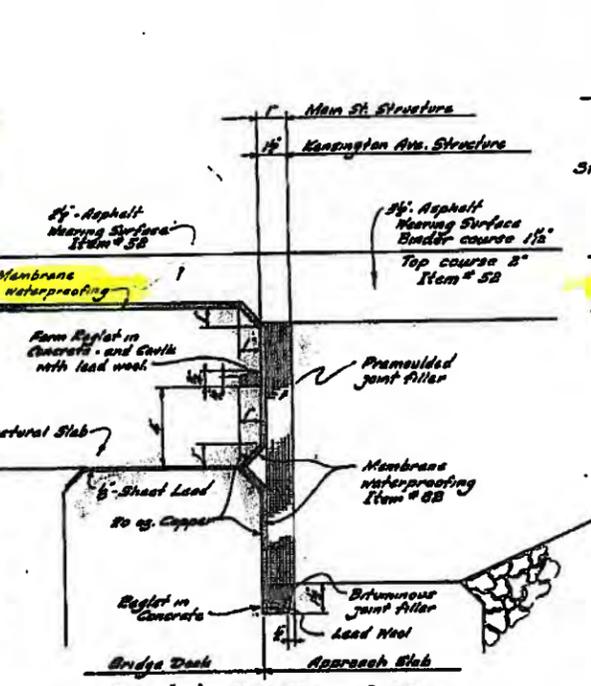
TYPE I EXPANSION JOINT
Scale - 3/4" = 1'-0"

NOTE # 1
The cost of furnishing and installing joint material including paraplastic joint filler, pre-molded expansion joint filler, copper flashing, lead wool, bituminous joint filler, dry lute filler and any other material in joints shall be included in the contract price bid for the various concrete items.

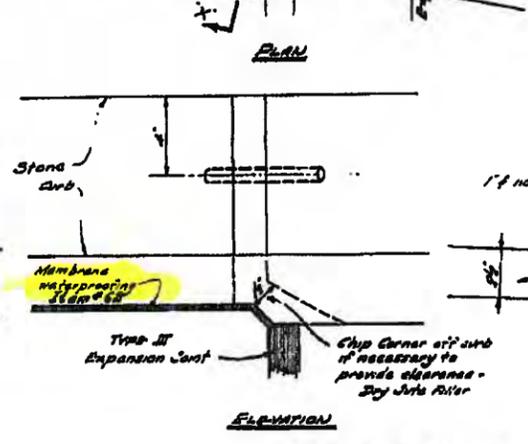


TYPE II EXPANSION JOINT
Scale - 3/4" = 1'-0"

NOTE # 5
6" sheet lead will be paid for at the contract price bid for item # 25.



TYPE III EXPANSION JOINT
Scale - 3/4" = 1'-0"



EXPANSION JOINT AT CURB
Scale - 3/4" = 1'-0"

NOTE # 7
Para-Plastic joint filler. Wherever Para-Plastic joint filler is called for on the plans the material manufactured by Sarnisard Products Corp. 6081 West 65th Street, Chicago 38 Ill. and known as Para-Plastic Waterproof Seal, or other material approved by the Engineer shall be furnished and installed. Material shall be installed in accordance with the manufacturers recommendations and directions.

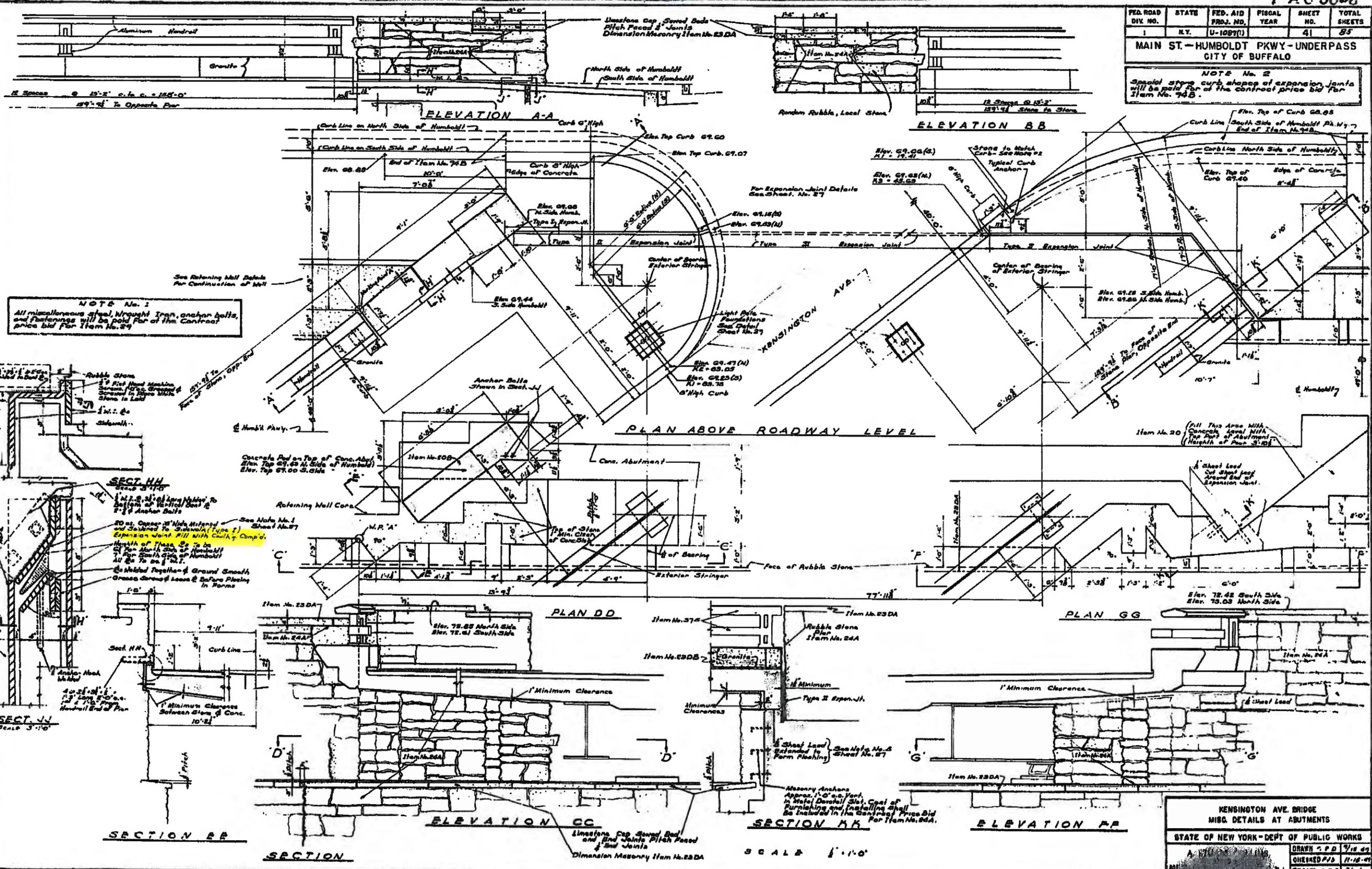
MAIN ST AND KENSINGTON AVE. BRIDGES TYPICAL SECTIONS AND DETAILS	
STATE OF NEW YORK - DEPT OF PUBLIC WORKS	
DRAWN R.A.M.	8-10-49
CHECKED C.D.D.	11-22-49
BY	TRAGED 10-20-49



FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	U-1087(1)		41	85

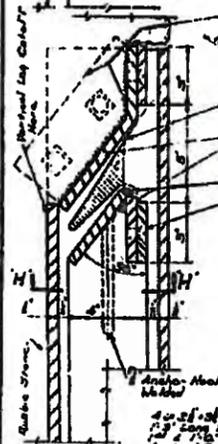
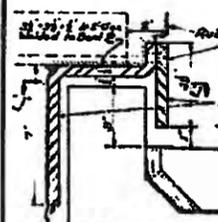
**MAIN ST. - HUMBOLDT PKWY - UNDERPASS
CITY OF BUFFALO**

NOTE No. 2
Special stone curb shapes of expansion joints will be paid for at the contract price bid for Item No. 74B.



NOTE No. 1
All miscellaneous steel, wrought iron, anchor bolts, and fastenings will be paid for at the contract price bid for Item No. 29.

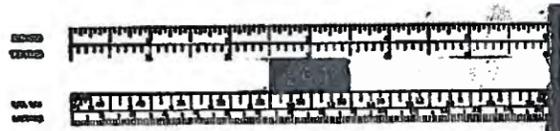
NOTE No. 3
20 sq. ft. of 1/2" x 1/2" x 1/2" metal mesh and secured to sidewalk (Type 1) Expansion Joint Fill with Caulk Comp'd.
Minimum of 2" to be on top North Side of Humboldt All to be 1/2" x 1/2".
Be Nailed Together & Ground Smooth Grass Areas & Leans & Before Placing in Forms



**KENSINGTON AVE. BRIDGE
MISC. DETAILS AT ABUTMENTS**

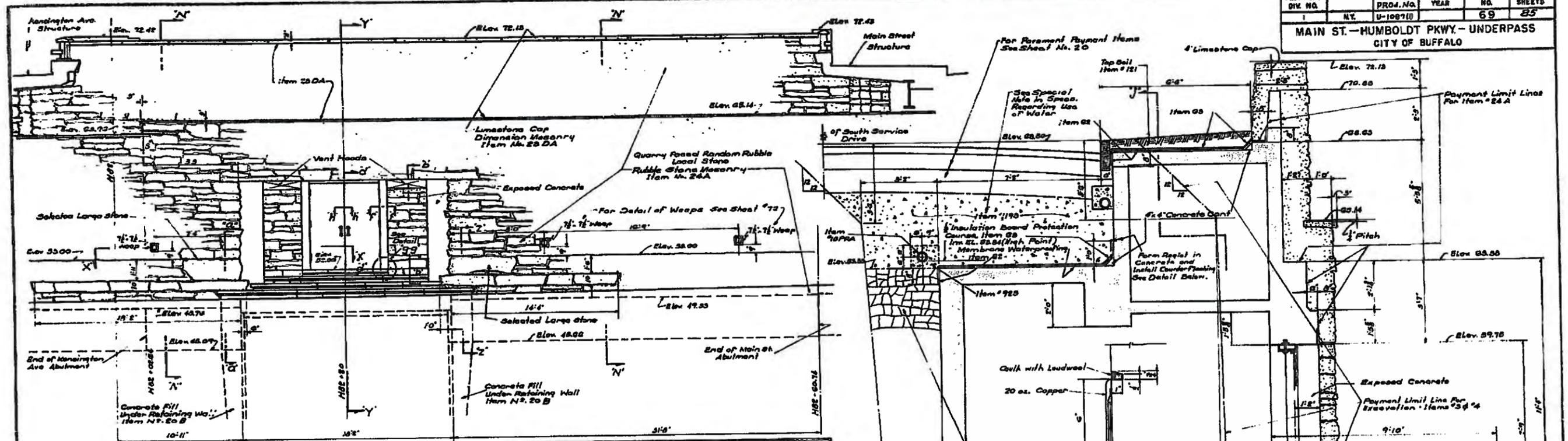
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS	
DESIGNED BY	DRAWN BY
CHECKED BY	DATE
TRACED BY	

SCALE 1" = 1'-0"



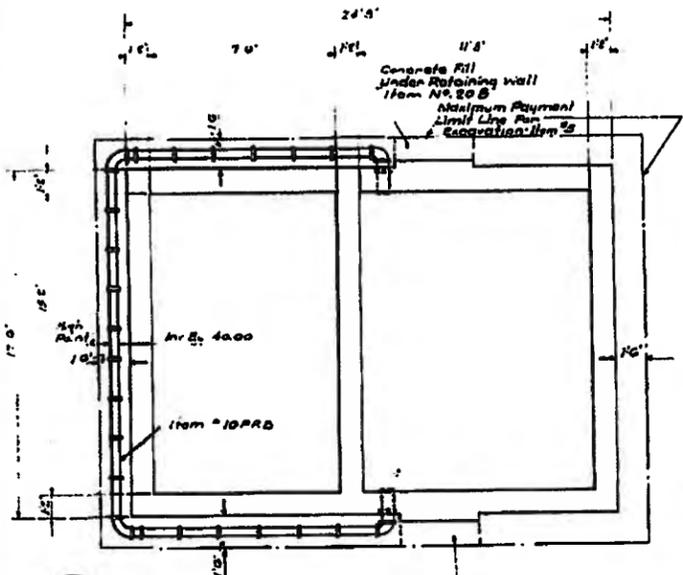
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	NY	U-108710		69	85

MAIN ST.-HUMBOLDT PKWY-UNDERPASS
CITY OF BUFFALO

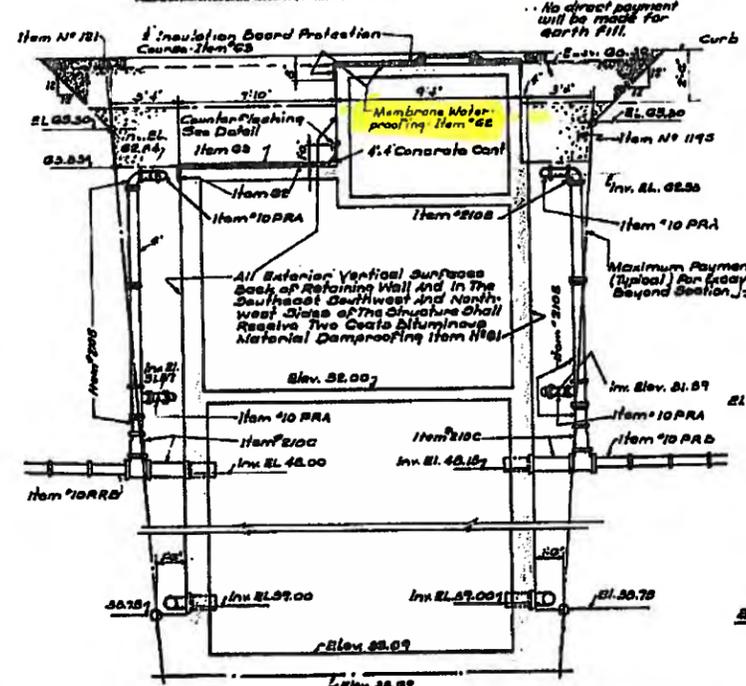


ELEVATION
Scale 1/4" = 1'-0"

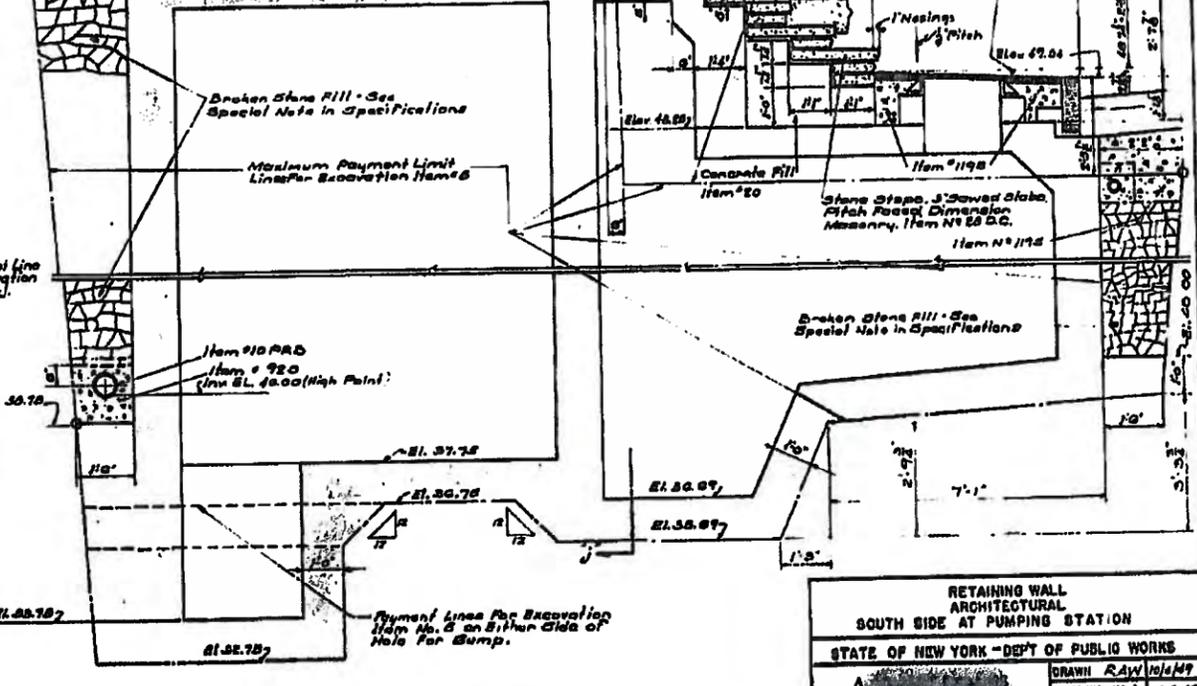
NOTES:
The cost of furnishing and installing concrete curbs shall be included in the contract price bid for Item No. 92.
The cost of furnishing and installing Copper Flashing and lead wool shall be included in the contract bid price for Item No. 92. Membrane waterproofing shall be included in the contract bid price for Item No. 92.
For Stations "a-a", "b-b", "c-c", "d-d", "e-e", "f-f", "g-g", "h-h", "x-x" and "y-y", see sheet No. 70.
For Station "N-N", see sheet No. 66.
For structural drawings of pumping station structure see sheets No. 60-64 incl.



PLAN OF PUMPING STATION
AT ELEVATION 40.0
Scale 1/4" = 1'-0"



SECTION J-J
Scale 1/4" = 1'-0"

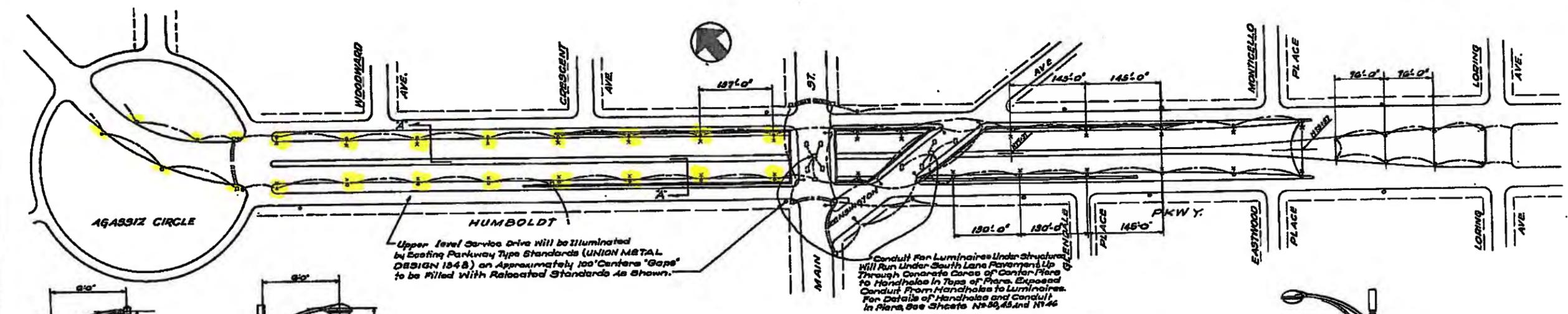


SECTION Y-Y
Scale 1/4" = 1'-0"

RETAINING WALL ARCHITECTURAL	
SOUTH SIDE AT PUMPING STATION	
STATE OF NEW YORK - DEPT. OF PUBLIC WORKS	
DRAWN RAY/10/64/49	CHECKED W.H. 12.7.49
TRACED J.L.C. 12.3.49	

FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	U-1087(D)		81	85

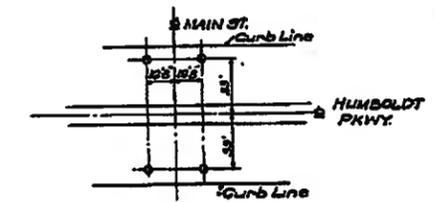
MAIN ST - HUMBOLDT PKWY - UNDERPASS
CITY OF BUFFALO



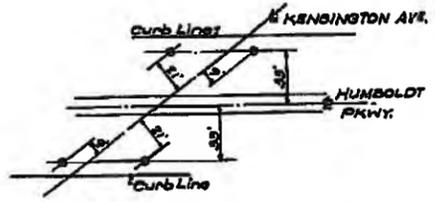
Upper level Service Drive will be illuminated by Existing Parkway Type Standards (UNION METAL DESIGN 1848) on Approximately 100' Centers "Gaps" to be Filled with Relocated Standards As Shown.

Conduit For Luminaires Under Structure Will Run Under South Lane Pavement Up Through Concrete Curb at Center Here to Handholes in Tops of Piers. Exposed Conduit From Handholes to Luminaires. For Details of Handholes and Conduit in Piers, See Sheets N-33, 43, and N-46

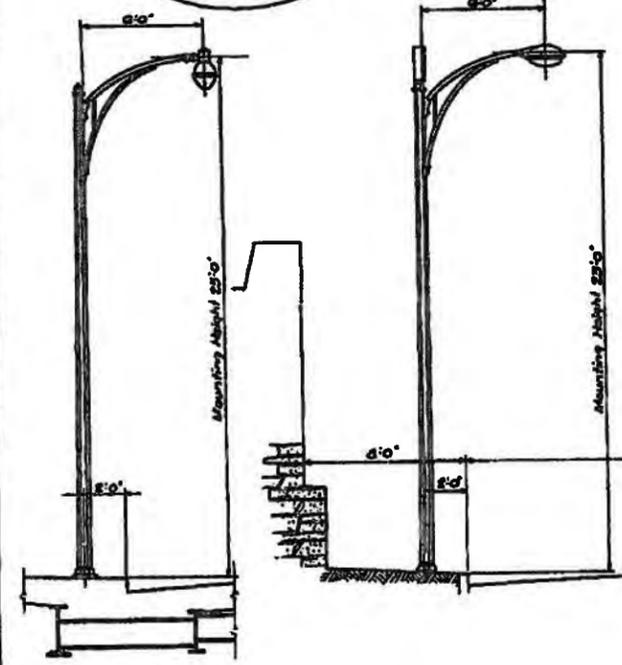
PLAN Scale 1" = 100'-0"



MAIN STREET LOCATION PLAN FOR TYPE A LIGHTS Scale 1" = 80'

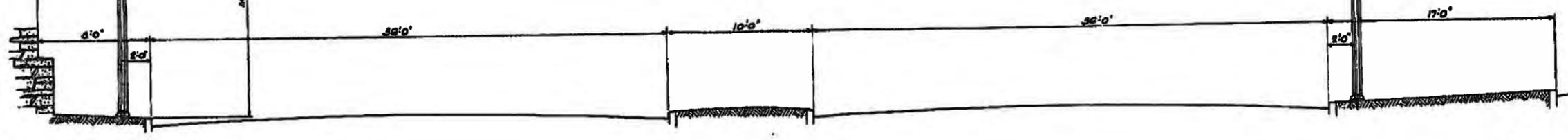


KENSINGTON AVE LOCATION PLAN FOR TYPE A LIGHTS Scale 1" = 30'

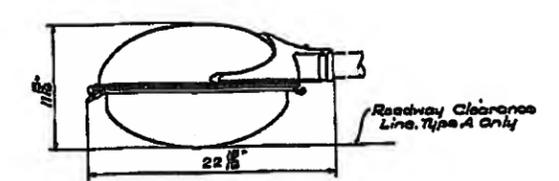


25'-0" STANDARDS FOR INCANDESCENT LUMINAIRES Scale 3/4" = 1'-0"

SECTION A-A Scale 1/4" = 1'-0"



TYPICAL STRUCTURE CROSS SECTION SHOWING MOUNTING OF TYPE-A LUMINAIRES Scale 1/2" = 1'-0"



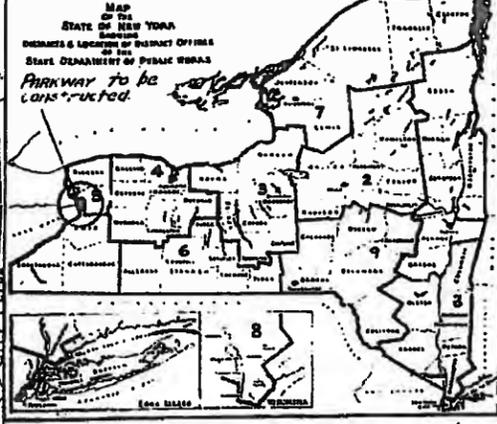
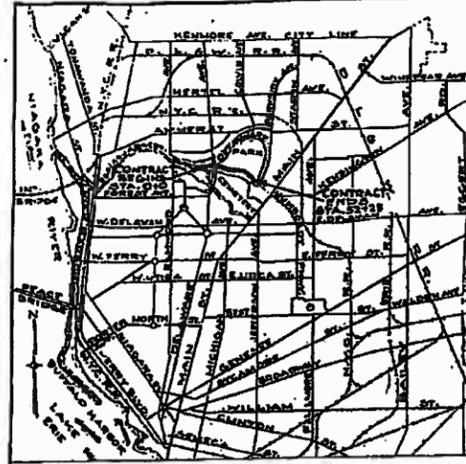
- TYPE - A I.E.S. Type III Distribution 250 Watt C-15 Mercury Vapor Lamp
- TYPE - B I.E.S. Type III Distribution 400 Watt E-11 Mercury Vapor Lamp

LEGEND

- Conduit (Diagrammatic)
 - Handhole Location.
 - Existing 12'-0" High Parkway Type Standard (Union Metal Co. Design 1848) Relocated.
 - Type A Suspended From Structure.
 - Type B Mounted on 25'-0" Standard (Union Metal Co. Design 70088-Y19) Adopted by The City of Buffalo.
 - Incandescent Luminaire on 25'-0" High Standard (Union Metal Co. Design 70088-Y19) To Be New or Reused. See Special Notes.
- See Sheets N-24, and N-41, For Locations of Standards on Structures
See Sheets N-27, and N-36, For Foundation Details of Standards on Structures
See Sheets N-36, and N-55, For Conduit in Concrete Deck Slabs

NOTE: All labor and material for the installation of street lighting facilities will be furnished by the Niagara Mohawk Power Corporation unless otherwise noted. See special notes in specifications. Light standards will be paid for at the Contract Price Bid for Item 2009 Street Lighting Standards.

STREET LIGHTING PLAN AND DETAILS	
STATE OF NEW YORK - DEPT OF PUBLIC WORKS	
DRAWN BY: T-1-47	CHECKED BY: 18-5-47
TRAFFIC ENGINEER: 11-11-47	



STATE OF NEW YORK
DEPARTMENT OF PUBLIC WORKS
DIVISION OF CONSTRUCTION

**PLANS FOR CONSTRUCTING WITH FEDERAL AID THE
HUMBOLDT PARKWAY EXTENSION
(AGASSIZ CIRCLE - DELAWARE AVENUE)**

From Station 0+00 to Station 52+25, a length of 0.99 mile (and 0.67 mile of Access Roads) in City of Buffalo
19 SHEETS
PROJECT U-1087(2) CONTRACT No. FAC 52-7

ERIE COUNTY

FED. RD. DIV. NO.	STATE	FED. AID FISCAL YEAR	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1952	1087	1	19

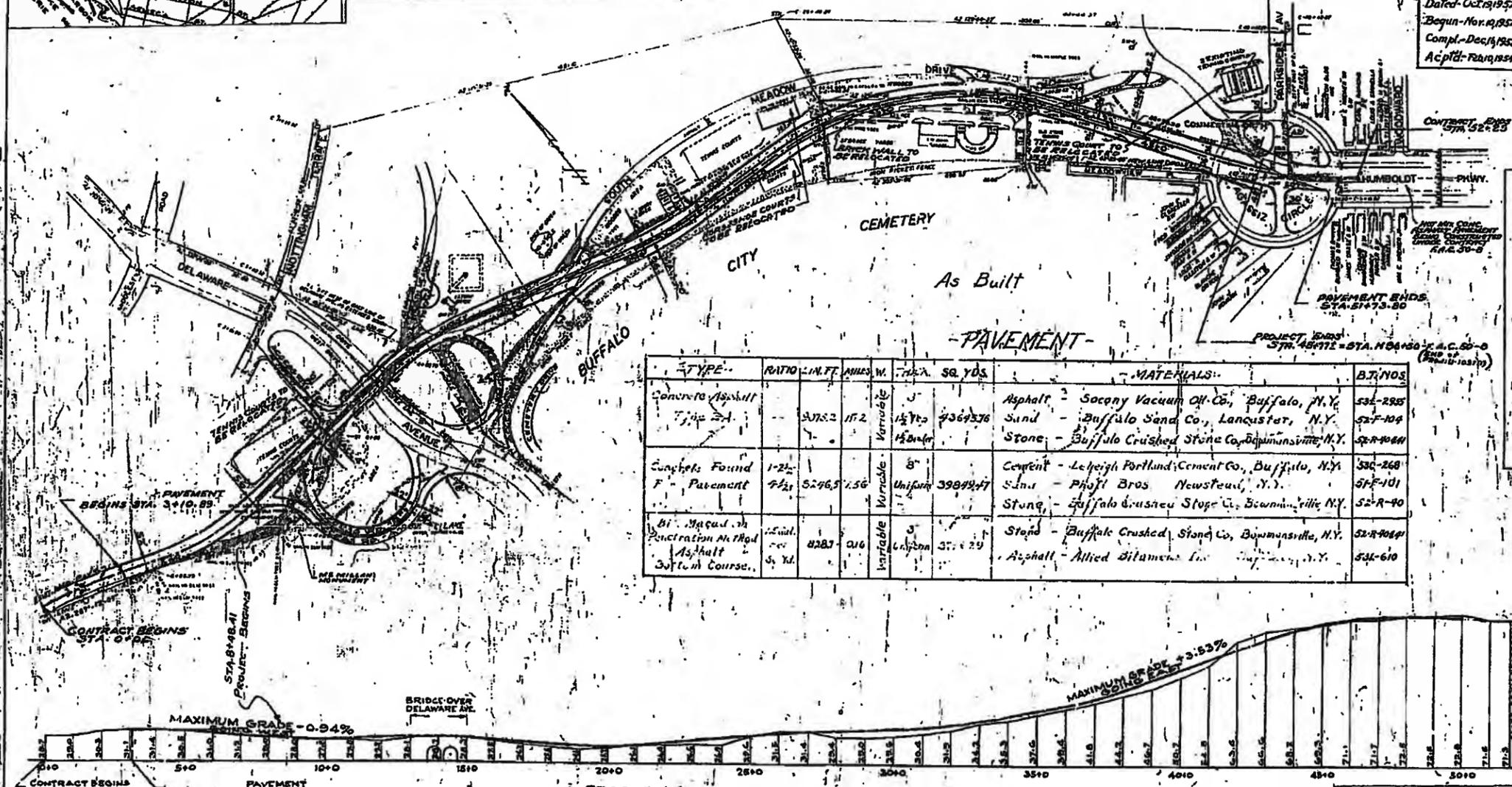
HUMBOLDT PARKWAY EXTENSION ARTERIAL
ROUTE-AGASSIZ CIRCLE TO DELAWARE AVE.
BUFFALO ERIE COUNTY

TYPE OF CONSTRUCTION
Asphalt Concrete, Type 2A 1.59 Miles
Miscellaneous Work 0.67 Mile

STANDARD STRUCTURE SHEETS
46-4, 46-18, 49-43, 49-7, 52-43, 50-12, 50-34, 50-122,
51-11W, 51-11R, 51-50

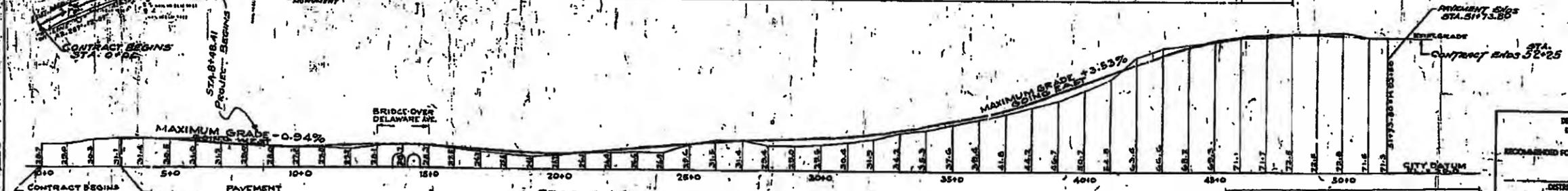
All work contemplated under this contract to be covered by and in conformity with the specifications adopted January 2, 1951, except as modified on these plans and in the Itemized Proposal.

CONTRACT	CONTRACTOR	ENGINEER	COST
Dated Oct. 1952 Began Nov. 1952 Compl. Dec. 1953 Acct'd Feb. 1954	Brunner Asphalt & Construction Co., Inc. Buffalo, N.Y.	C.R. Waters-Dist. Engr. Andrew Smith Engr. 1952-553	\$58,000.00 10% of Est.



As Built
-PAVEMENT-

TYPE	RATIO	LN. FT.	INCHES	W. TON	SQ. YDS.	MATERIALS	B.T. NOS.
Concrete Asphalt Type 2A		3078.2	1 1/2	Variable	4369376	Asphalt - Socony Vacuum Oil Co., Buffalo, N.Y. Sand - Buffalo Sand Co., Lancaster, N.Y. Stone - Buffalo Crushed Stone Co., Downsville, N.Y.	536-285 527-104 52-R-100
Concrete Found 7" Pavement	1-2 1/2 4 1/2	5246.5	7.56	Uniform	3989947	Cement - Lehigh Portland Cement Co., Buffalo, N.Y. Sand - Phyll Bros Newstead, N.Y. Stone - Buffalo Crushed Stone Co., Downsville, N.Y.	536-268 52-F-101 52-R-90
Bit. Macul. in Penetration M. Mod Asphalt 3rd Course	1/2 5/8	4287	0.16	Variable	371129	Stone - Buffalo Crushed Stone Co., Downsville, N.Y. Asphalt - Allied Bitumens Inc., Buffalo, N.Y.	52-R-100 536-610



DEPARTMENT OF PUBLIC WORKS

RECOMMENDED: *C.R. Waters*
DISTRICT ENGINEER

APPROVED: *[Signature]*
DEPUTY CHIEF ENGINEER

APPROVED BY CITY OF BUFFALO
MAYOR: *[Signature]*
DATE: *[Date]*

DEPARTMENT OF CONSTRUCTION
BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL: _____

DISTRICT ENGINEER: _____ DATE: _____

APPROVED: _____

INVESTIGATING ENGINEER: _____ DATE: _____

COPIED FROM ORIGINAL RECORD PLAN
By - HARRY N. NASH
Date April 1954
Copied by - M.A. VITALE

PREPARED AND RECOMMENDED
By *[Signature]*
EDWIN G. SPYER CONSULTING ENGINEER
NEW YORK STATE PROFESSIONAL ENGINEER LICENSE NO. 1372

MAY 1 1952
DATE



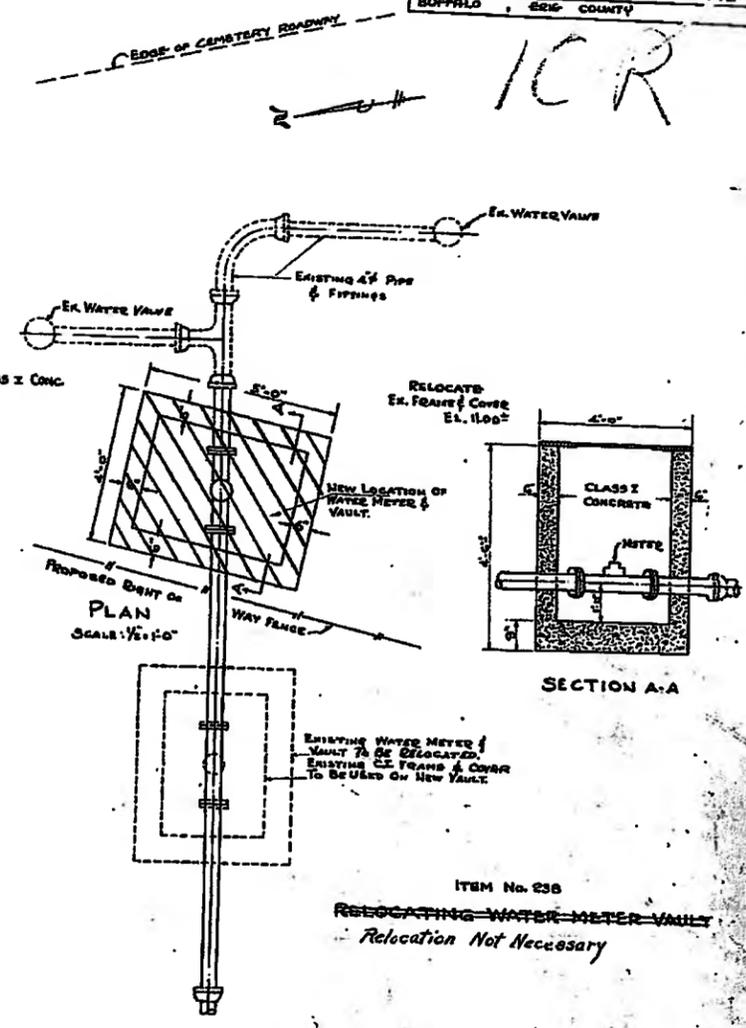
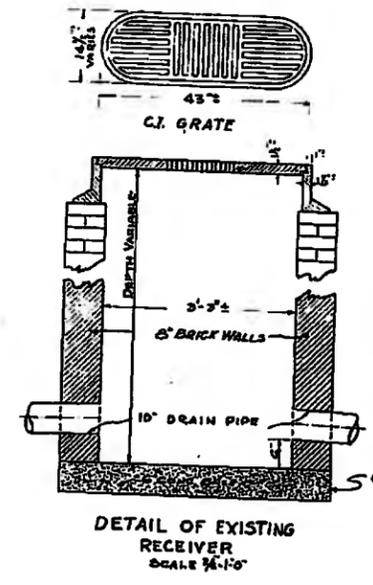
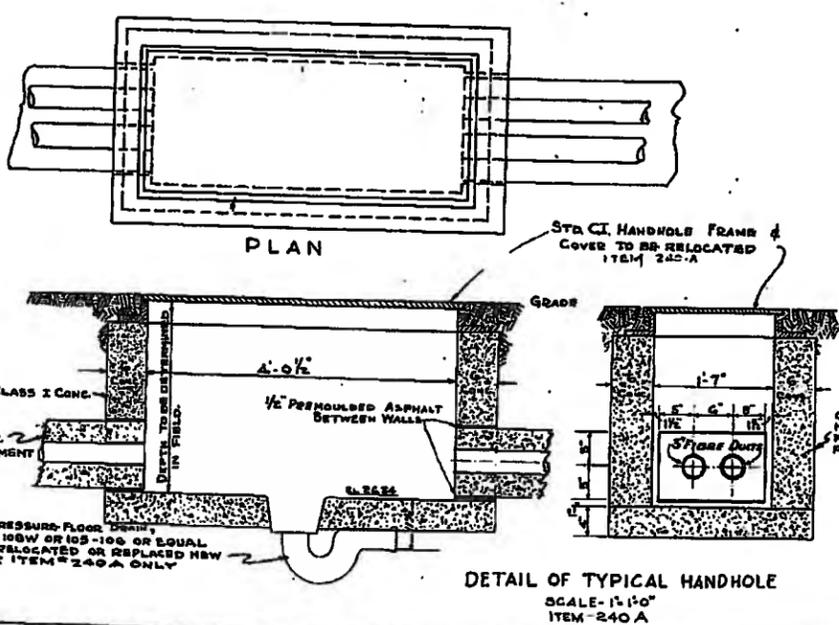
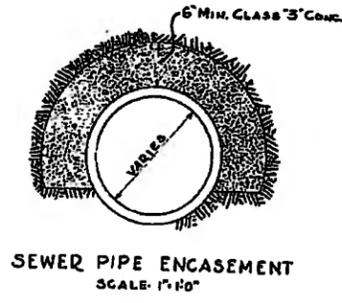
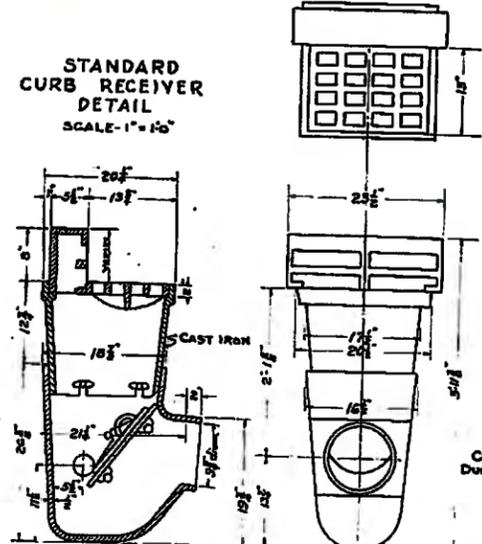
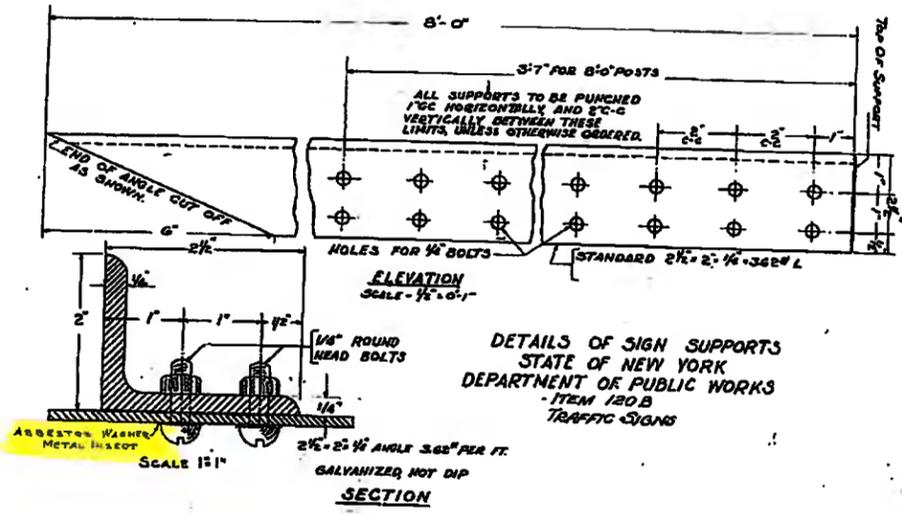
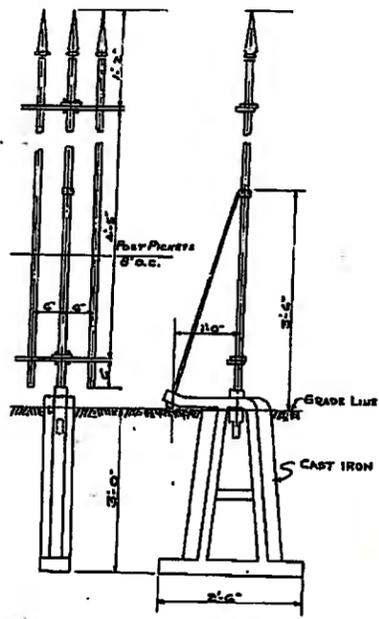
F.A.C. 52-7

PRO. R.D. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	1081 (S)	1952	10	19

HUMBOLDT PARKWAY EXTENSION, RETERIAL
ROUTE - BRASSIE CIRCLE TO DELAWARE F.R.
BUFFALO - EISEN COUNTY

ICR

STATION	BENCH MARK	ELEVATION	DESCRIPTION
13-53.6 35'4"	B.M. 1	28.48	ON THE SOUTHWEST CORNER OF THE SIDEWALK CURB ADJOINING THE NORTH STONE PARAPET AT ITS ANGLE LEADING TO THE N.W. STAIRWAY OF THE DOUBLE ARCH BRIDGE OVER DELAWARE AVE.
18-04.6 46'2"	B.M. 2	26.80	ON THE SOUTHWEST CORNER OF THE CONCRETE WATER TABLE OF THE BRICK COLUMN AT THE SOUTHWEST CORNER OF THE PORCH ON THE SOUTH SIDE OF THE COMPANY STATION.
27-30.6 124'2"	B.M. 3	33.35	ON THE NORTH ANCHOR BOLT OF THE NORTHEAST LEG OF THE POLICE RADIO TOWER SITUATED DIRECTLY EAST OF THE POLICE RADIO STATION.
35-75.6 80'2"	B.M. 4	32.36	CUT ON CONCRETE WATER TABLE - 14 FEET WEST OF THE FIRST GATE WEST OF BRICK BUILDING.
43-92.6 282'2"	B.M. 5	60.63	ON THE SOUTHWEST CORNER OF THE STONE BASE OF THE STANDARD SUPPORTING A GROUP OF LAMPS IN THE TRIANGLE AT THE MEETING PLACE OF SOUTH MEADOW DRIVE, HUMBOLDT PARKWAY, AND EAST MEADOW DRIVE.



PREPARED AND RECOMMENDED:
GUYTON & SPURGE, CONSULTING ENGINEERS
NEW YORK STATE PROFESSIONAL ENGINEER - LICENSE NO. 1372

MAY 1, 1952
DATE

As Built



F.A.C. 52-7

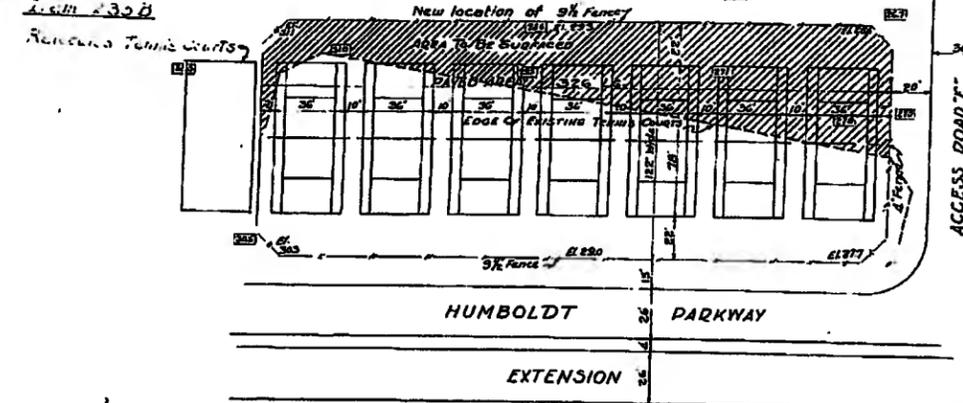
FED. RD. DIST. NO.	STATE	FED. AID FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	1952	16	17

HUMBOLDT PARKWAY EXTENSION ARTERIAL
ROUTE AGASSIZ CIRCLE TO DELAWARE AVE.
BUFFALO EDIE COUNTY

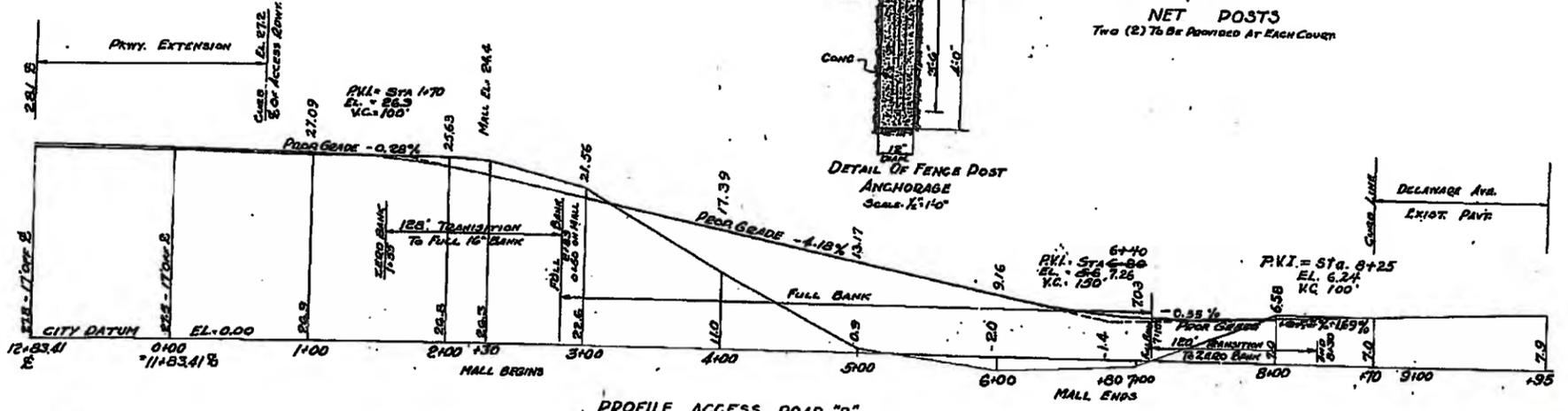
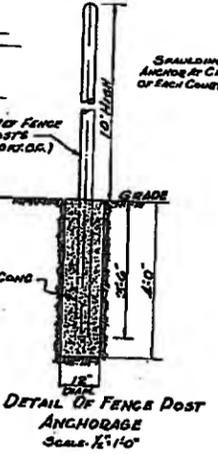
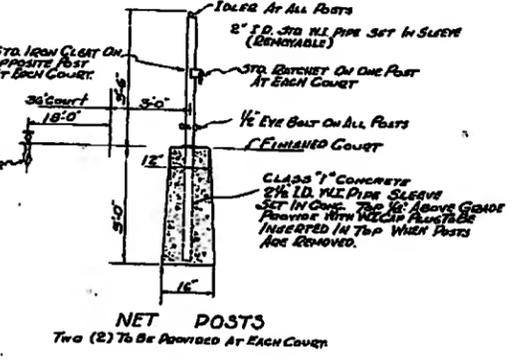
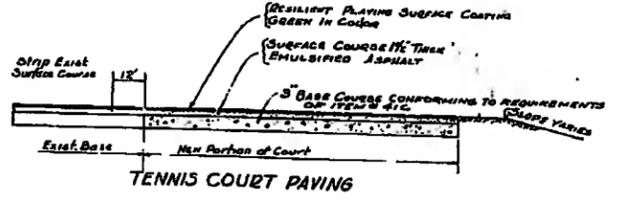
16R

NOTE ELEVATIONS SHOWN THIS SHEET
EXISTING GROUND ELEVATIONS.

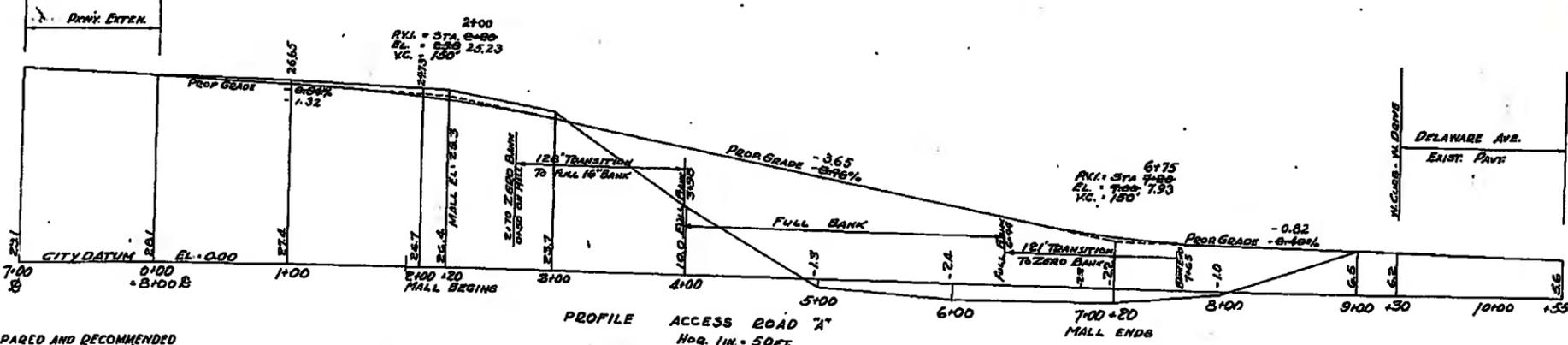
NOTE EXISTING FENCES TO BE RELOCATED AS SHOWN



ITEM 235-A
LOCATION PLAN
TENNIS COURTS AT ACCESS ROAD-E
SCALE: 1"=40'

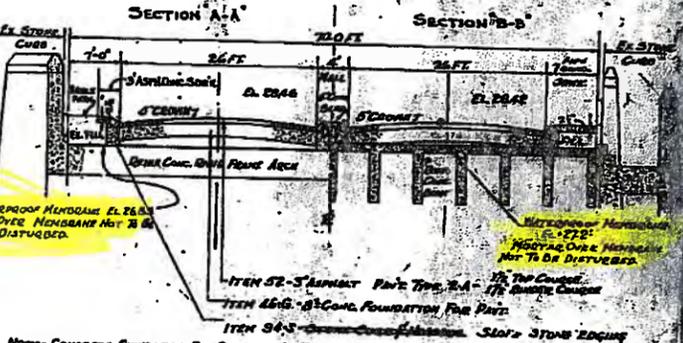
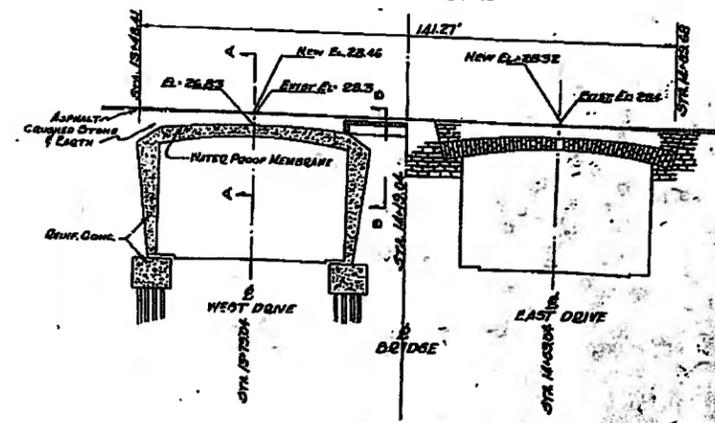


PROFILE ACCESS ROAD "B"
HOR. 1"=50 FT.
VER. 1"=10 FT.



PROFILE ACCESS ROAD "X"
HOR. 1"=50 FT.
VER. 1"=10 FT.

EXISTING DELAWARE AVE. BRIDGE
HALF SECTION
SCALE: HOR. 1"=20'
VER. 1"=4'



NOTE: CONCRETE FOUNDATION FOR PAVEMENT ON THE BRIDGE
MAY BE OBTAINED AND THE EXISTING PRESENT THROUGH WITH
ITEM 41G FOUNDATION COURSE; ITEM 43B BOTTOM COURSE; AND
THE DRIVE AND DRIVEWAY WITH ITEM 52 AS DIRECTED
BY THE ENGINEER.

SECTIONS THROUGH THE BRIDGE
SEE SHEET #11
SCALE: HOR. 1"=10'
VER. 1"=4'

As Built

PREPARED AND RECOMMENDED
ELWIN G. BREYER CONSULTING ENGINEER
NEW YORK STATE PROFESSIONAL ENGINEERS LICENSE NO. 1372
MAY 1 1952
DATE

Scajaquada overb
1980



D96563

D96563



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
OFFICE OF ENGINEERING

Record Plans

PLANS FOR RECONSTRUCTING
THE CITY OF BUFFALO

SCAJAQUADA CREEK EXPRESSWAY, S.H. SCE 58-1

Between Station 481+50 and Station 554+00 BK, A Length of 1.37 Miles (Plus 1.1 Mile of Access)

AND A PORTION OF
S.H. NO. SCE 59-1

Between Station 475+10 and Station 481+50, A Length of 0.12 Mile

AND THE

HUMBOLDT PARKWAY EXTENSION, S.H. C 52-7

Between Station 9+00 AH and Station 48+73.8, A Length of 0.75 Mile (Plus 0.5 Mile of Access)

A PORTION OF THE

MAIN ST.-HUMBOLDT PARKWAY UNDERPASS, S.H. C50-8

Between Station 48+73.8 and Station 51+73 BK, and Between Station H93+60 AH
and Station H 60+44, A Length of 0.51 Mile

A PORTION OF THE

KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, S.H. C63-2

Between Station NB 221+80.55 and Station NB 208+43.46, A Length of 0.26 Mile

A TOTAL LENGTH OF 3.01 MILES

in the City of Buffalo

TYPE OF CONSTRUCTION
Asphalt Concrete, Curbing, Guide Rail Sign & Signals
STANDARD SHEETS
603-3R2, 606-GR1, 606-7R1, 606-8R1, 606-9R1, 606-16R1,
609-1, 645-14R2, 648-4, 648-6, 655-3, 655-5R1, 655-6R1,
655-7R1, 655-1, 655-2, 655-4, 655-6, 655-8, 655-11, 655-12,
655-13, 655-14, 655-15, 644-1, 645-7

All work contemplated under this contract is to be covered by and in conformity with the specifications of January 3, 1978, as amended by Addenda Nos. 1 & 2, as set forth on these plans and in the Itemized Proposal.

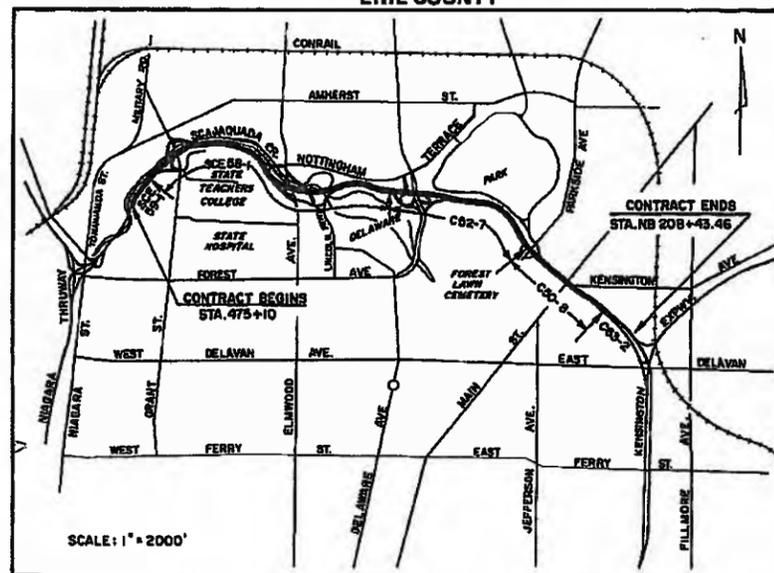
CONCRETE ELEMENT	FROM SPEC. NO.	CLASS	C
Material	Source	Test No.	
Stone	Buffalo Stone S-16	79A664	
Air Content	6.0% to 8.0% by		
Sand	Pine Hill S-7R	79A172	
Cement	Nolan Type I		
Thickness	9"	Length - Various Locations	

Asphalt Concrete	Type 2	2 1/2" TYPE 1 SAND, TYPE 3 SAND, 7 1/2" (T.O.)
Section	3" VAR	2" 1 1/2" (VAR)
Producer	LANCASTER STONE PRODUCTS	
Test No.	LOCATION LANCASTER, NY	
Fine Aggregate	Source LANCASTER STONE	TEST NO. 79A47
Coarse Aggregate	Source LANCASTER STONE	TEST NO. 79A47
Asphalt Cement	Source MARATHON OIL	TEST NO. 79A51

41 SHEETS

CONTRACT NO. D96563

ERIE COUNTY



LOCATION
ON THE SCAJAQUADA CREEK EXPRESSWAY (N.Y. 188) APPROXIMATELY 0.4 MILES EAST OF THE N.Y.S. THRUWAY (I-190), 3.02 MILES TO THE KENSINGTON EXPRESSWAY (N.Y. 33), ALL IN THE CITY OF BUFFALO, ERIE COUNTY.

Sheet No.	Dwg. No.	Description
1		Title Sheet
2-5	TS-1-TS-4	Typical Sections
6	A-1	Access Rd. E. Plan & Typical Sect.
7		Table of Quantities
8-9	P-1 & P-2	Road Plan 200' scale
10-14	MT-1-MT-5	Maintenance & Protection of Traffic
15	T-1	Miscellaneous Tables
16	D-1	Drainage Details
17	M-1	Median Details
18-20	GR-1-GR-3	Guide Railing Details
21	LL-1	Lighting Details & Landscaping
22 & 23	RP-1 & RP-2	Plan-Delaware Ave. Ramps A, B, C & D
24	PR-1	Profiles
25 & 27	ST-1-ST-3	Grant St., Agassiz Circle Intersection
28-27	PN-1-PN-10	Pavement Markings
38-41		Sign Structure Details

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
Approved: *Sept. 24, 1980*
Robert H. Edwards
Deputy Chief Engineer - Technical Design

CONTRACTOR'S NAME: *M. H. Kimmins & Son, Inc.*
AWARD DATE: *November 10, 1980*
COMPLETION DATE: *October 1, 1982*
FINAL ACCEPTANCE DATE: *December 23, 1981*
REGIONAL DIRECTOR: *O. H. Ketchum*
ENGINEER IN CHARGE: *David A. Carr P.E.*
FINAL COST TOTAL: *\$2,366,723.25*
FISCAL SHARE COST(S):
#1 \$2,366,723.25

RECOMMENDED BY: *James D. Duffin 8/28/80*
DATE: _____
BY: _____

RECOMMENDED BY: *[Signature]* DATE: *8-11-80*
RECOMMENDED BY: *[Signature]* DATE: *8/27/80*
RECOMMENDED BY: *[Signature]* DATE: *8/27/80*
RECOMMENDED BY: *[Signature]* DATE: *8/27/80*

INDEX ON SHEET NO. 1.

FED. ROAD REG. NO.	STATE	SHEET NO.	TOTAL SHEETS
1	NY	1R1	41

FEDERAL AID PROJECT NO.
CAPITAL PROJECT IDENTIFICATION NO. **5470.08.301**

D96563

D96563



D96563

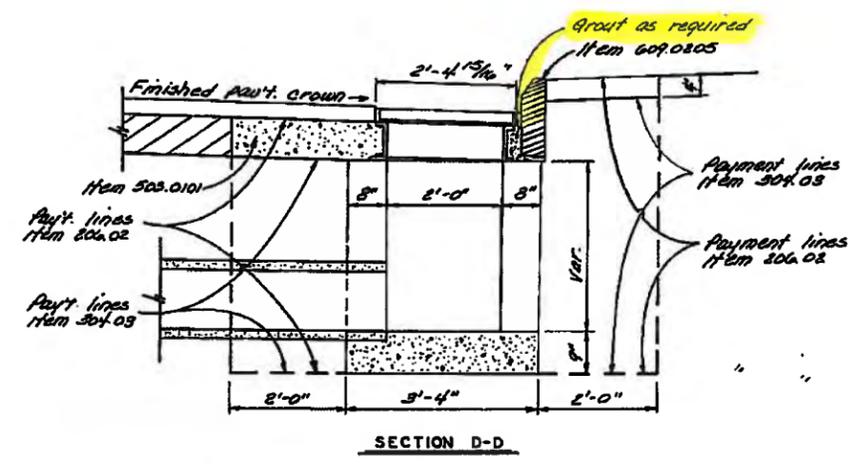
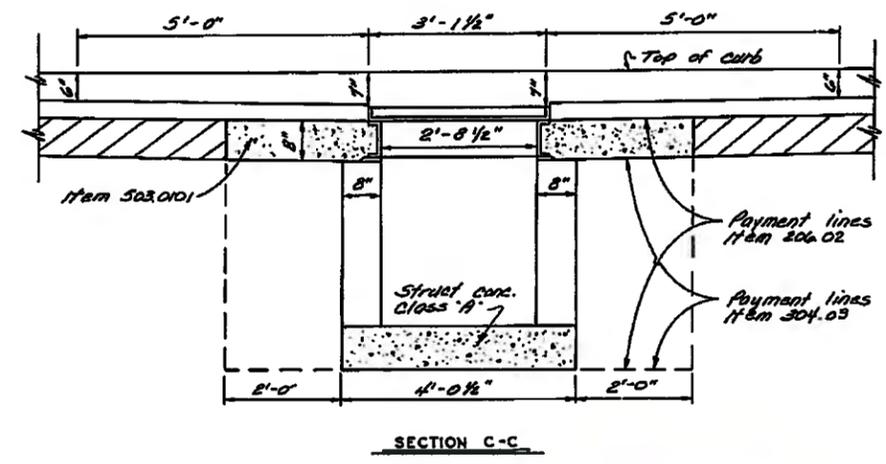
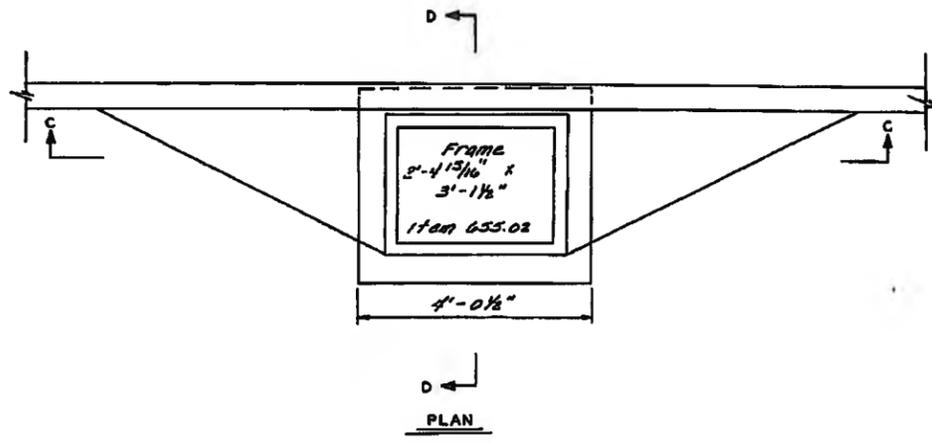
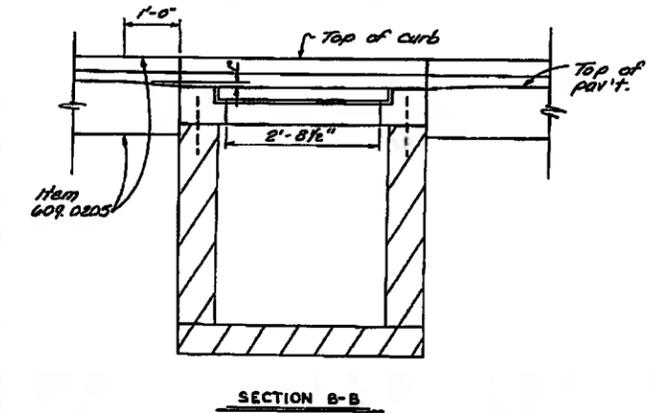
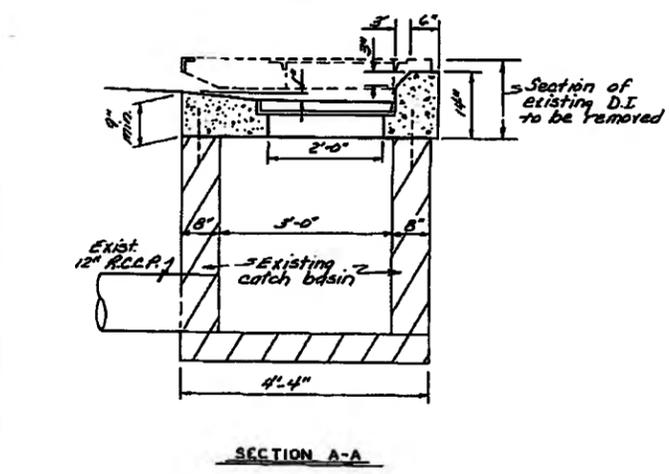
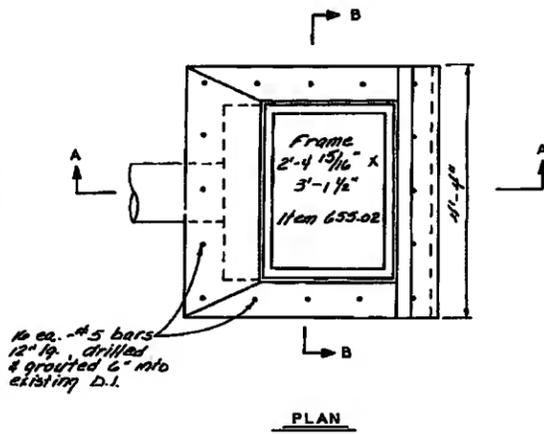
ITEM 05604.0701 ALTERING DRAINAGE STRUCTURES - TYPE A

STA. 9+14 RT., 11+81 LT. # 12+87 LT.
SCALE: 3/4" = 1'-0"

ITEM 05604.0501 DROP INLET - TYPE A

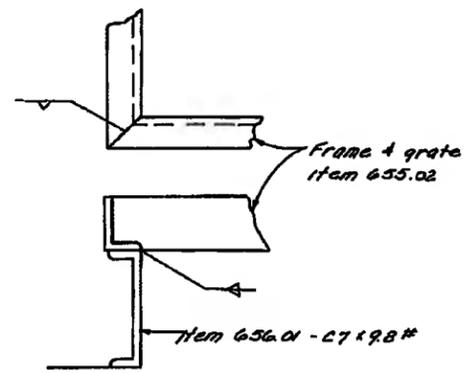
STA. 51+38 RT.
SCALE: 3/4" = 1'-0"

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		16	41
SCAJAQUADA CREEK EXPRESSWAY				



DETAIL OF CHANNEL TO BE WELDED TO FRAME FOR TYPE A D.I.

NO SCALE



Note:
Frame & grate 2'-4 13/16" x 3'-1 1/2"
(See Standard sheet # 655-3)
Frame & channels shall be hot dipped galvanized after welding
Channel - weld WEB and both flanges

Notes:

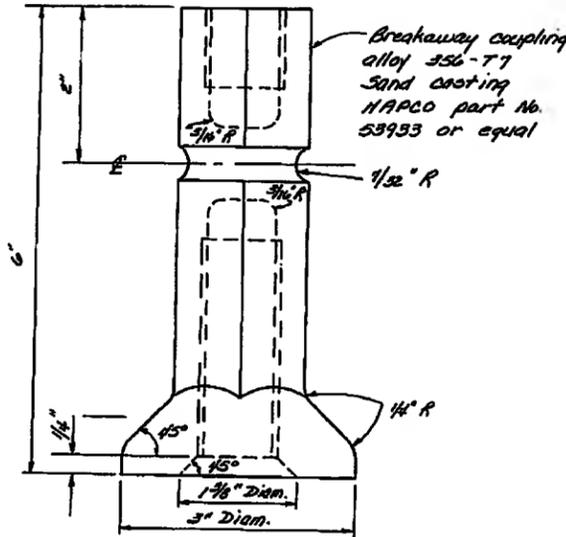
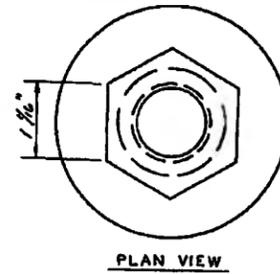
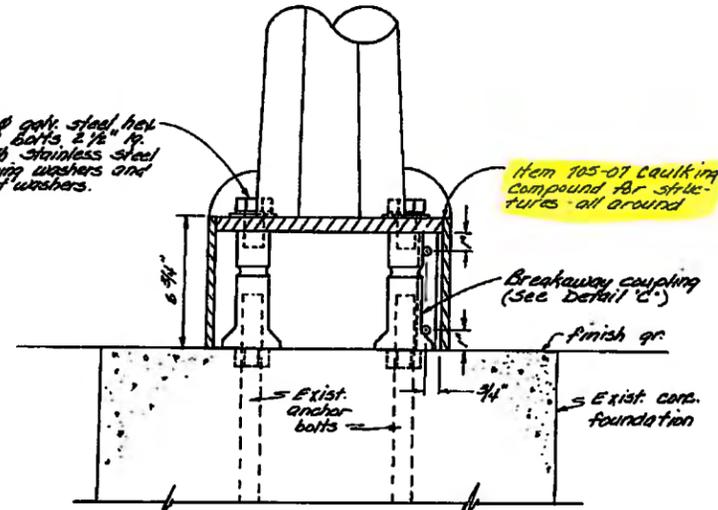
- 1) D.I. walls are to be structural conc. class "A", conc. block or brick.
- 2) If the D.I. walls are constructed of conc. block or brick, plaster the outside surface with 1/2" of mortar. Materials used to meet the requirements of section 705-21.
- 3) Top of masonry shall be considered to be the high point of the grate.
- 4) Where the existing payment is to be removed within the payment lines shown for item 304.02, it shall be saw cut to a depth necessary to produce nearly perpendicular edges without damaging the adjacent conc. The cost of this is to be included in the price bid for the drop inlet.
- 5) Existing pipes to be connected to new D.I. A.O.B.E. with the cost to be included in the price bid for item 05604.0501.

DRAINAGE DETAILS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
DRAWING NO.	SCALE	DATE	REGION
D-1	AS SHOWN		5

DESIGNED BY: [Signature]
 IN CHARGE OF: [Signature]
 CHECKED BY: [Signature]
 ESTIMATED BY: [Signature]
 CHECKED BY: [Signature]
 DRAFTED BY: [Signature]
 CHECKED BY: [Signature]

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		21	41
SCAJAQUADA CREEK EXPRESSWAY				

ITEM 05670.1431 - FURNISH AND INSTALL SPECIAL BASES - TYPE A

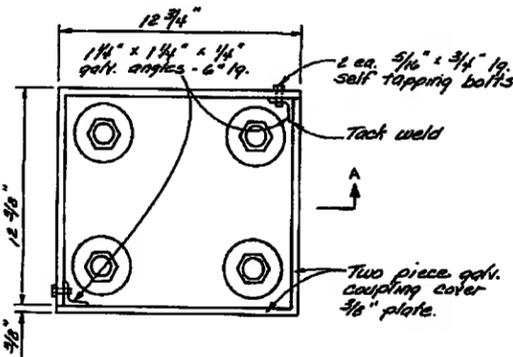


SECTION A-A
NO SCALE

FRONT VIEW

DETAIL 'C'

FULL SCALE



COUPLING COVER
PLAN VIEW

SCALE: 3\"/>

ITEM 05670.1431 - FURNISH AND INSTALL SPECIAL BASES - TYPE A

LOCATION	SIDE	POLE NO.
FROM PARKSIDE AVE. EAST TO EASTWOOD AND MONT ICELLO.	NO.	124-1
	NO.	134-1
	NO.	154-1
	NO.	170-1
	NO.	NO. MISSING
	NO.	212-1
	NO.	224-1
	NO.	236-1
	NO.	256-1
	NO.	272-1
	SO.	125-1
	SO.	135-1
	SO.	153-1
	SO.	171-1
	SO.	20-1
	SO.	201-1
	SO.	215-1
	SO.	227-1
	SO.	237-1
	SO.	1118
TOTAL		20 EA.

SCHEDULE A				
LOCATION & QUANTITY OF PAYMENT ITEMS				
STATION TO STATION	SIDE	ITEM	QUANTITY & UNIT	REMARKS
STA. 475+10 WB & EB TO STA. 471+86 EB & STA. 48208+43 WB	L&R	610.0201	4.0 ACRES	SEED ALL TOPSOILED AND OTHER DESIGNATED DISTURBED AREAS BETWEEN EDGE OF STABILIZED SHOULDER OR CURB AND LIMITS OF WORK AS DESIGNATED ON THE PLANS AND A.O.B.E.
SAME STATIONS AS ABOVE	L&R	613.0101	1,020 C.Y.	TOPSOIL ALL DESIGNATED DISTURBED AREAS BETWEEN EDGE OF STABILIZED SHOULDER OR CURB AND LIMITS OF WORK AS DESIGNATED ON THE PLANS AND A.O.B.E.

SCHEDULE B	
DETAIL SPECIFICATIONS FOR 1978 D.G.T. STANDARD SPECIFICATIONS	
SPECIFICATION SECTION	DESCRIPTION
610.0201	SEEDING AREAS: SEE SCHEDULE "A" 610.0201 SEEDING SEEDS: 713-04 SEE SCHEDULE "D" FERTILIZER: 713-03 TYPE NO. 2 (1-1-1) MULCH: 713-18 HAY OR 713-19 STRAW MULCH ANCHORAGE: 713-12. MULCH SHALL BE ANCHORED BY USE OF CHEMICAL MULCH BINDERS AS APPROVED BY THE REGIONAL LANDSCAPE ARCHITECT OR BY OTHER APPROVED METHODS. RATE OF SEED: 70 LBS. P.L.S. PER ACRE. RATE OF FERTILIZER: 100 LBS. NITROGEN PER ACRE. NOTE: A MINIMUM OF 800 GALLONS WATER PER ACRE IS REQUIRED WHEN SEED IS APPLIED HYDRAULICALLY.
-1.02	
-2.02	
-3.02C	RATE OF SEED: 70 LBS. P.L.S. PER ACRE. RATE OF FERTILIZER: 100 LBS. NITROGEN PER ACRE. NOTE: A MINIMUM OF 800 GALLONS WATER PER ACRE IS REQUIRED WHEN SEED IS APPLIED HYDRAULICALLY.
-3.02D	RATE OF MULCH: 2 TO 3 TONS PER ACRE TO COVER GROUND TO SATISFACTION OF E.I.C.
-3.04A	RATE OF MULCH ANCHORAGE: CHEMICAL MULCH BINDERS AT THE MANUFACTURER'S RECOMMENDED RATES.
613.0101	TOPSOIL AREAS: SEE SCHEDULE "A" 613.0101 TOPSOIL DEPTH OF TOPSOIL: THREE (3) INCHES
-1.02	
-3.02	

SCHEDULE D				
DETAIL SPECIFICATIONS FOR SEEDS				
A - MIN. GERMINATION C - POUNDS PURE LIVE SEED PER ACRE				
B - MIN. % GERMINATION AND HARD SEED				
NAME	VARIETY	A	B	C
ITEM 610.0201	SEED MIXTURE			
KENTUCKY BLUEGRASS (POA PRATENSIS)	COMMERCIAL	75		25
RED FESCUE (FESTUCA RUBRA)	COMMERCIAL	85		30
PERENNIAL RYEGRASS (LOLIUM PERENNE)	MANHATTAN OR PENNINE	90		18
TOTAL LBS. P.L.S./ACRE				70

REVIEWED AND APPROVED BY:

Regional Landscape Architect
REGIONAL LANDSCAPE ARCHITECT

7-12-80
DATE

LIGHTING DETAILS & LANDSCAPING

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
LL - 1	AS SHOWN		5

DESIGNED BY: *[Signature]* CHECKED BY: *[Signature]* ESTIMATED BY: *[Signature]* CHECKED BY: *[Signature]* DRAFTED BY: *[Signature]* IN CHARGE OF: *[Signature]*

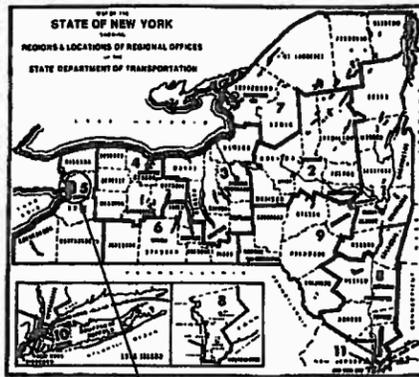
Note: The item 05670.1431 shall include the cost of raising the existing light standards high enough to allow installation of the breakaway couplings without disturbing the existing wiring.

Rehab of
198 Bridges

D254901

D254901

STRUCTURES CADD 5



SITE OF WORK



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
OFFICE OF ENGINEERING

REHABILITATION OF FIVE BRIDGES ON VARIOUS ROUTES
VARIOUS STATE HIGHWAYS
IN BUFFALO

ERIE COUNTY

27 SHEETS

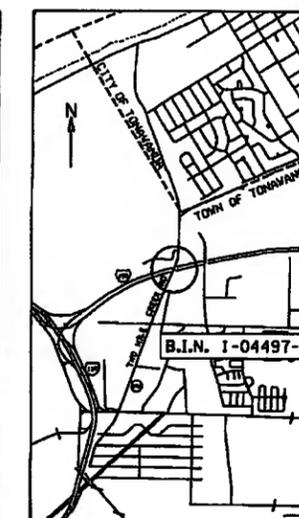
CONTRACT D254901

STANDARD SHEETS
606-394, 606-28, 619-682

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED
BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS OF
JANUARY 2, 1950, AS AMENDED BY ADDENDUM NO. 1, EXCEPT AS
INDICATED ON THESE PLANS AND OF THE ITEMIZED PROPOSAL.

RECORD PLAN

CONTRACTOR'S NAME **Collana Bros. Const. Co., Inc.**
 AWARD DATE **Feb. 7, 1994**
 COMPLETION DATE **Dec. 31, 1994**
 FINAL ACCEPTANCE DATE **February 1, 1995**
 REGIONAL DIRECTOR **MR. ROBERT J. RUSSELL**
 ENGINEER IN CHARGE **MR. JOSEPH L. LESTO**
 FINAL COST TOTAL **\$1,256,231.98**
 FISCAL SHARE 01 COSTS **\$1,256,231.98**



SCALE: 1" = 2000'

- REHABILITATION OF FIVE BRIDGES.
- B.I.N. 1-02262-0 NORTHAMPTON ST. OVER RTE. 33, CITY OF BUFFALO, ERIE COUNTY. RM 33-5301-1029.
 - B.I.N. 1-02272-0 GRIDER ST. OVER RTE. 33, CITY OF BUFFALO, ERIE COUNTY. RM 33-5301-1985.
 - B.I.N. 1-02279-0 EGGERT RD. OVER RTE. 33, CITY OF BUFFALO, ERIE COUNTY. RM 33-5301-1999.
 - B.I.N. 1-03995-9 RTE. 198 RAMP OVER SCAJAQUADA CR., CITY OF BUFFALO, ERIE COUNTY. RM 198-5301-1017.
 - B.I.N. 1-04497-0 TWO MILE CR. RD. OVER RTE. 1-290, TOWN OF TONAWANDA, ERIE COUNTY. RM 2901-5301-1008.

RECOMMENDED BY: **J. L. Collier, P.E.** 10/22/93 REGIONAL HIGHWAY MAINTENANCE ENGINEER
 RECOMMENDED BY: **Richard C. Pratt, P.E.** 10/22/93 REGIONAL TRAFFIC ENGINEER
 APPROVED BY: **Robert J. Russell, P.E.** 10/22/93 REGIONAL DIRECTOR

REHABILITATION OF 5 BRIDGES			
NY33 - NY198 AND I-290			
CITY OF BUFFALO, ERIE COUNTY			
FED. ROAD REG. NO.	STATE	SHEET NO.	TOTAL SHEETS
1	NY	1 R1	27
FEDERAL AID PROJECT NO.		5803.49.301	
CONSTRUCTION NO.			

INDEX ON SHEET NO. 2

D254901

D254901

DESIGNED BY: **Eric D. ...** CHECKED BY: **Robert J. Russell** DATE: **10/22/93**
 DESIGNED BY: **Eric D. ...** CHECKED BY: **Robert J. Russell** DATE: **10/22/93**
 DESIGNED BY: **Eric D. ...** CHECKED BY: **Robert J. Russell** DATE: **10/22/93**

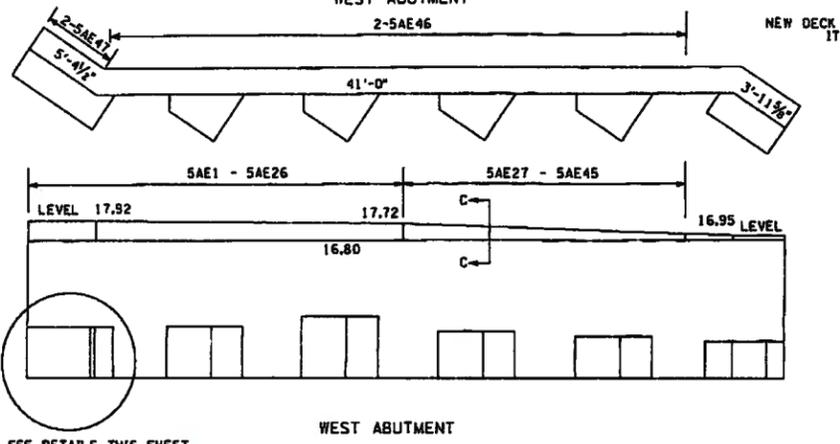
FEDERAL ROAD DISTRICT	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		18	27

REHABILITATION OF FIVE BRIDGES
ERIE COUNTY

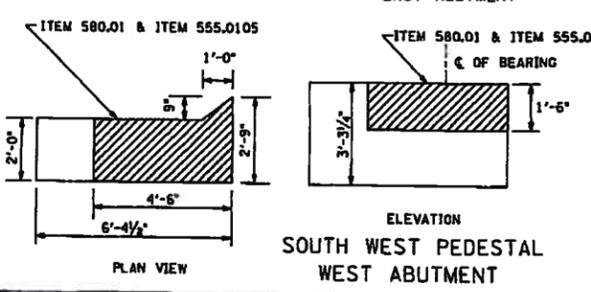
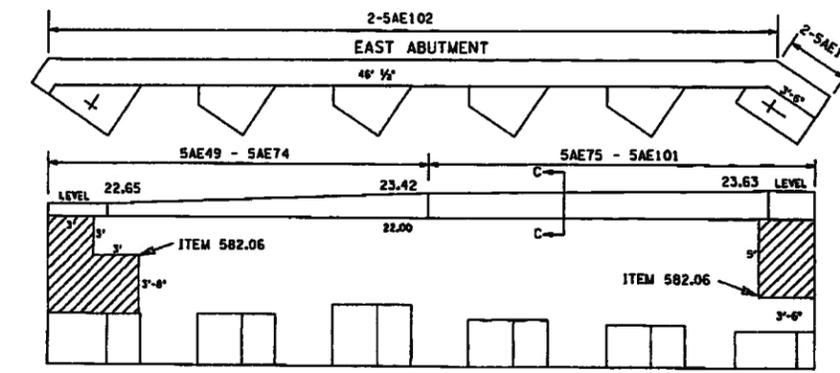
NOTE: EXISTING BACKWALL IS LEVEL AND DECK IS HAUNCHED DOWN TO THE BACKWALL. IN THIS CONTRACT THE BACKWALL WILL BE BUILT UP TO THE ELEVATION SHOWN BELOW WHICH IS THE ASSUMED BOTTOM OF DECK SLAB ELEVATION. THE EXISTING BACKWALL WILL BE CHIPPED DOWN TO PROVIDE A ROUGH SURFACE FOR PLACEMENT OF NEW CONCRETE. ALL CONCRETE SURFACES RECEIVING NEW CONCRETE SHALL BE PREPARED AND COATED AS PER GENERAL NOTES.

WINGWALL REBAR BOTH SIDES

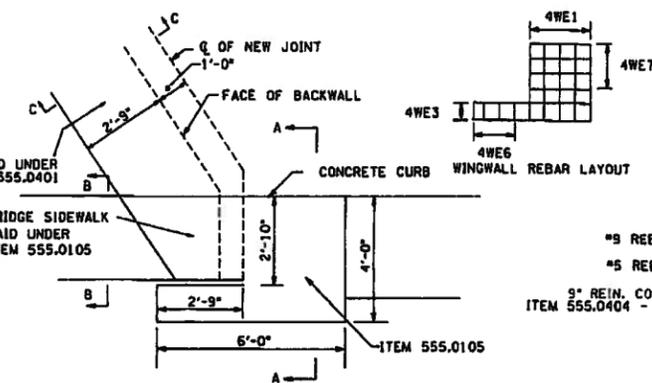
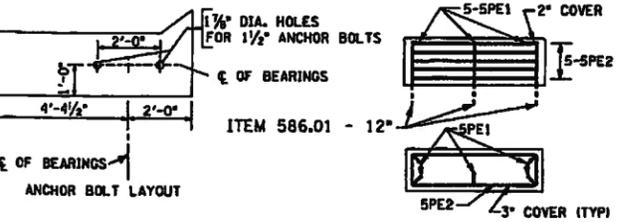
MARK NO.	LENGTH	TYPE	WEIGHT
4WE1	10	4'-4"	STR 29
4WE3	4	5'-8"	STR 15
4WE7	8	2'-11"	STR 16
4WE6	8	10"	STR 4
ITEM 556.0202 TOTAL			64



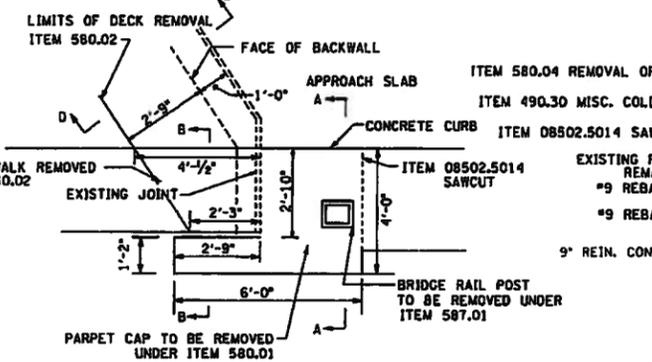
SEE DETAILS THIS SHEET
ITEM 585.01 - STRUCTURAL LIFTING OPERATIONS - TYPE "A" (100 KIPS) @ THIS LOCATION



THE COST OF REMOVING EXISTING BEARING, SUPPLYING, PLACING NEW ANCHOR BOLTS, AND RE-SETTING BEARING TO ITS EXISTING POSITION TO BE INCLUDED IN THE COST OF ITEM 585.01 STRUCTURAL LIFTING OPERATIONS.



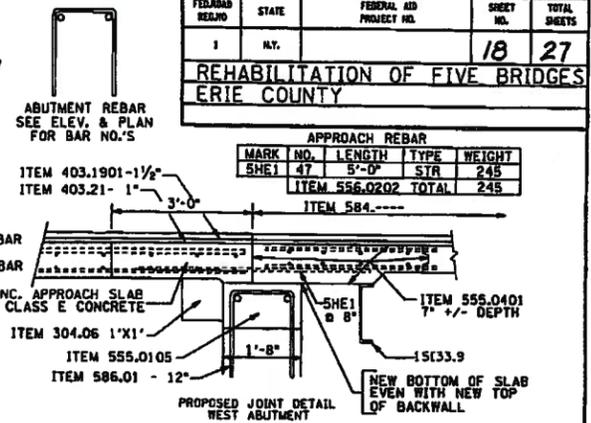
TYPICAL PROPOSED CORNERS WEST ABUTMENT



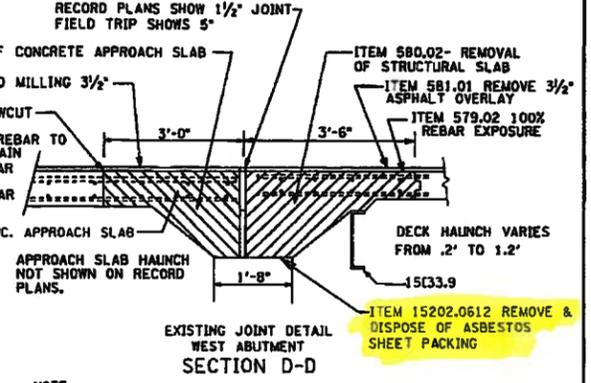
TYPICAL EXISTING CORNERS WEST ABUTMENT

ABUTMENT REBAR

MARK	NO.	TYPE	LENGTH	A	B	WEIGHT
5AE1 - 5AE26	26	4	VARIES	13 1/2'-21"	1'-4"	115
5AE27 - 5AE45	19	4	VARIES	21'-25 1/2"	1'-4"	104
5AE47	2	STR	5'-2 1/2"			11
5AE48	2	STR	3'-6"			80
5AE49 - 5AE74	25	4	VARIES	19 1/2'-29"	1'-4"	141
5AE75 - 5AE101	26	4	VARIES	29'-31 1/2"	1'-4"	173
5AE102	2	STR	46'			96
5AE103	2	STR	3'-6"			7
ITEM 556.0202 TOTAL						727



SECTION C-C

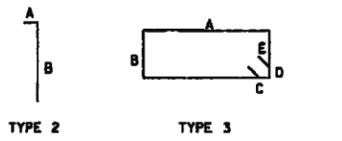


SECTION D-D

NOTE: CARE SHALL BE TAKEN TO INSURE THAT THE STRUCTURAL STEEL MEMBERS ARE NOT DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS. SHOULD A STRUCTURAL STEEL MEMBER BE DAMAGED DUE TO CONTRACTOR'S OPERATIONS, THE ENGINEER SHALL BE SOLE JUDGE AS TO WHETHER OR NOT THE STRUCTURAL STEEL MEMBER MAY BE REPAIRED. SHOULD THE ENGINEER DECIDE THAT REPAIR MAY BE IN ORDER, NOTIFICATION SHALL BE MADE TO THE OWNER WHO WILL MAKE THE FINAL DETERMINATION. ANY REQUIRED REPAIR OR REPLACEMENT OF THE STRUCTURAL STEEL MEMBER WILL BE INCLUDED IN THE PRICE BID FOR ITEM 580.02.

PEDESTAL REBAR

MARK NO.	TYPE	LENGTH	A	B	C	D	E	WEIGHT
5PE1	5	2	2'-11"	5"	2'-6"			15
5PE2	5	3	12'-0"	4'-0"	1'-6"	6"	6"	63
ITEM 556.0202 TOTAL								78



BIN 1-03995-9

AS-BUILT REVISIONS

SIGNATURE _____ DATE _____

SCAJAQUADA CREEK
WEST ABUTMENT DETAILS

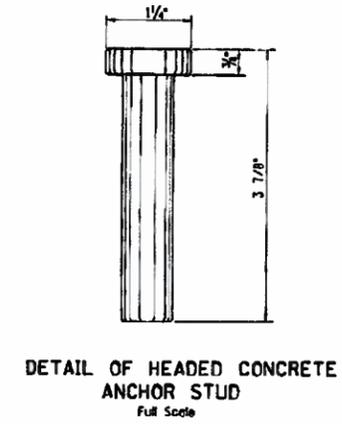
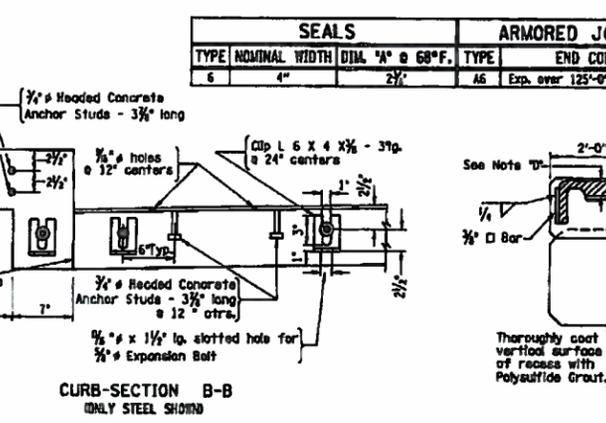
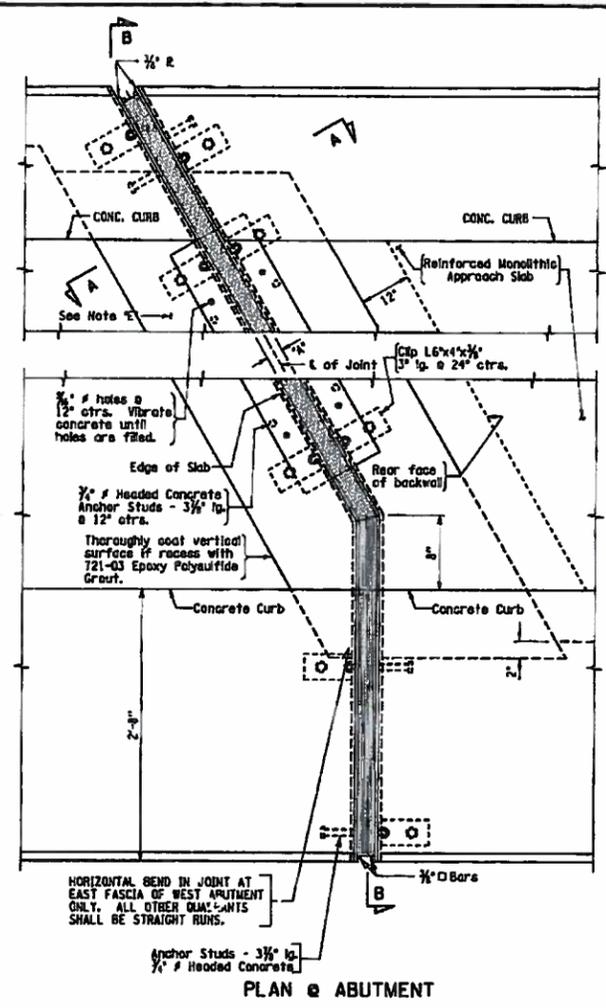
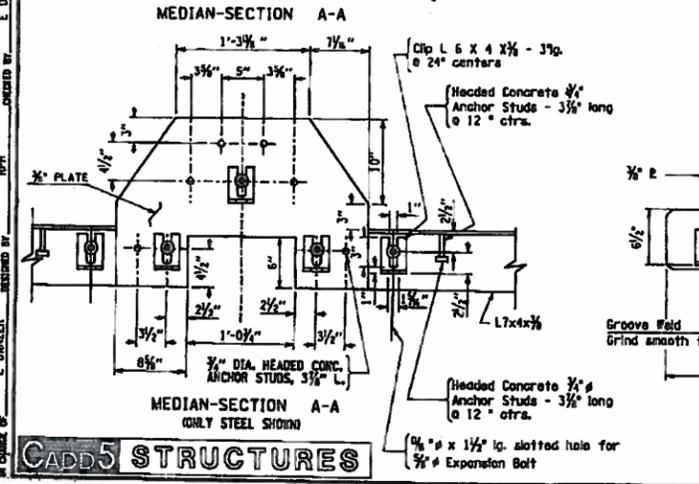
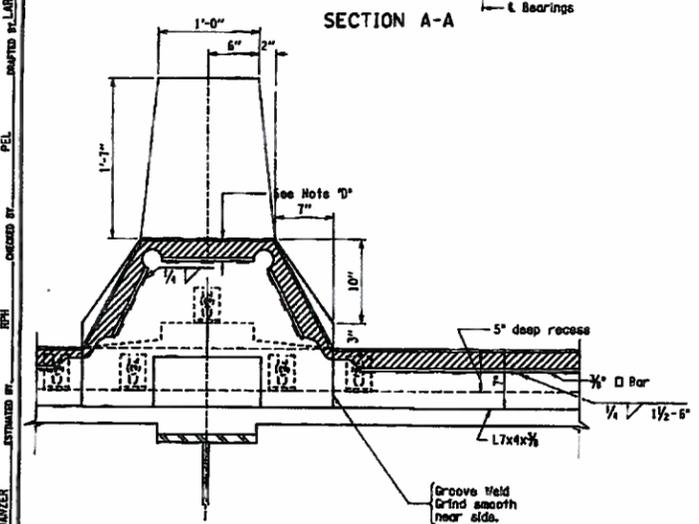
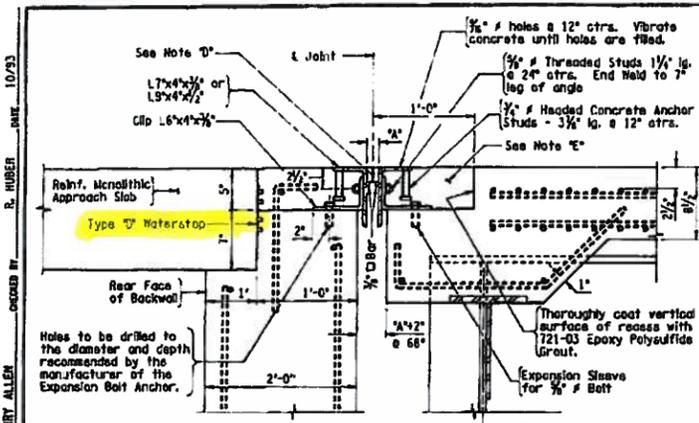
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. SJ-2 SCALE NONE DATE 8/93 REGION FIVE

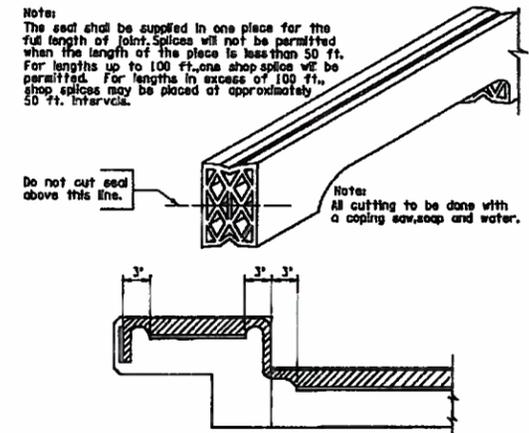
CADD5: P.I.N. 580349 - sjoint.dgn
 IN CHARGE OF E. DANZER DESIGNED BY RPJ
 ESTIMATED BY E. DANZER
 CHECKED BY LARRY ALLEN
 DRAWN BY R. HUBER
 DATE 10-93

CADD5 STRUCTURES

FEDERAL AID REGION	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NY		26	27
REHABILITATION OF FIVE BRIDGES				
ERIE COUNTY				



DETAIL OF HEADED CONCRETE ANCHOR STUD
Full Scale



DETAIL FOR CUTTING AND BENDING SEAL
Not to Scale

SEALS			ARMORED JOINT SYSTEM		
TYPE	NOMINAL WIDTH	DIAL "A" @ 68°F.	TYPE	END CONDITION	LOCATION
6	4"	2 1/2"	A6	Exp. over 125'-0" to 150'-0"	E. ABUT.

Note "D"
This depth shall be indicated on the shop drawings and shall be such that when the seal is compressed to 50% of its normal width the top of the seal shall be not less than 1/4" nor more than 3/4" below the top of roadway.

Note "E"
Concrete in recesses on superstructures provided for installing the Armored Joint system shall comply with the Specifications for the current slab item, except that machine finishing will not be required. No additional payment will be made for furnishing and placing this concrete as this quantity lies within the limits of the area to be paid for under the item.

NOTES:
It is desirable to have the Armored Joint with its Compression Seal assembled in the shop and delivered to the job site as set for installation in its prefabricated recess in the structural slab. In cases where the Armored Joint cannot be assembled in the shop, due to its excessive length causing shipping problems, the joint shall be sealed with the Compression Seal before the structure is opened to traffic including construction traffic, and before discontinuing operation when work is suspended during the winter.

The cost of furnishing and placing the Epoxy Polyurethane Grout shall be included in the unit price bid for the slab item.

For details of Headed Concrete Anchor Stud, and Cutting and Bending Seal see dwg. JT-4.

Note:
The seal shall be supplied in one piece for the full length of joint. Splices will not be permitted when the length of the piece is less than 50 ft. For lengths up to 100 ft., one shop splice will be permitted. For lengths in excess of 100 ft., shop splices may be placed at approximately 50 ft. intervals.

AS-BUILT REVISIONS

SIGNATURE _____ DATE _____

ARMORED JOINT DETAIL AT ABUTMENT
SCAJAQUAGA CREEK
B.I.N. 1-03988-9

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DIAGRAM NO.	SCALE	DATE	REGION FIVE
AJ-2	NONE	8-93	

DRAWN BY: R. HUBER DATE: 10/93
 CHECKED BY: LARRY ALLEN
 DESIGNED BY: E. DANZON
 ESTIMATED BY: E. DANZON
 REVISIONS BY: E. DANZON
 P.I.N. 580349 - armorjt.dwt
 CADD5 STRUCTURES



D500201



SITE OF WORK

RECORD PLANS



REHABILITATION OF ROUTE 198 BRIDGE OVER ROUTE 384
STATE HIGHWAY C52-7
IN BUFFALO

31 SHEETS

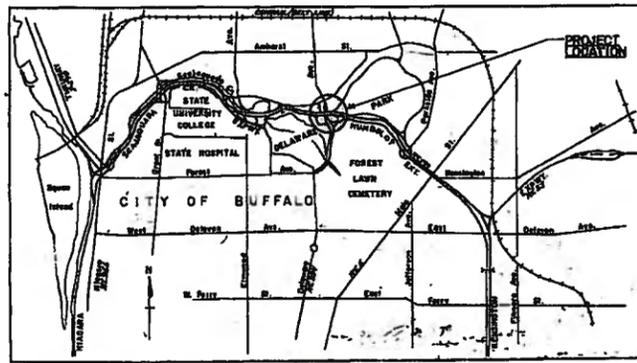
CONTRACT D500201

TYPE OF CONSTRUCTION:
Stone Masonry Bridge Rehabilitation, B21 104729

STANDARD SHEETS:
20-01, 20-02, 20-03, 20-04, 20-05, 20-06, 20-07, 20-08, 20-09, 20-10, 20-11, 20-12, 20-13, 20-14, 20-15, 20-16, 20-17, 20-18, 20-19, 20-20, 20-21, 20-22, 20-23, 20-24, 20-25, 20-26, 20-27, 20-28, 20-29, 20-30, 20-31, 20-32, 20-33, 20-34, 20-35, 20-36, 20-37, 20-38, 20-39, 20-40, 20-41, 20-42, 20-43, 20-44, 20-45, 20-46, 20-47, 20-48, 20-49, 20-50, 20-51, 20-52, 20-53, 20-54, 20-55, 20-56, 20-57, 20-58, 20-59, 20-60, 20-61, 20-62, 20-63, 20-64, 20-65, 20-66, 20-67, 20-68, 20-69, 20-70, 20-71, 20-72, 20-73, 20-74, 20-75, 20-76, 20-77, 20-78, 20-79, 20-80, 20-81, 20-82, 20-83, 20-84, 20-85, 20-86, 20-87, 20-88, 20-89, 20-90, 20-91, 20-92, 20-93, 20-94, 20-95, 20-96, 20-97, 20-98, 20-99, 20-100

DESIGNED BY: J.P. R... CHECKED BY: A. L... ESTIMATED BY: J.P. R... CHECKED BY: A. L... CONTRACT NO. D500201

CONTRACTOR'S NAME	CARABONE CONSTRUCTION, INC.
AWARD DATE	MARCH 20, 1986
COMPLETION DATE	AUGUST 15, 1986
FINAL ACCEPTANCE DATE	OCTOBER 20, 1986
REGIONAL DIRECTOR	DONALD H. KETCHUM
ENGINEER IN CHARGE	WALTER E. SALVADORE
FINAL COST TOTAL	\$205,572.00
FEDERAL SHARE	0%
COSTS	\$205,572.00



LOCATION MAP
BLN 1 04729 9 IS LOCATED ON ROUTE 198 HUMBOLDT PARKWAY EXTENSION OF THE SCARSDALE EXPRESSWAY (R.T. 198) OVER DEL MAR AVENUE (R.T. 384) IN THE CITY OF BUFFALO, COUNTY OF ERIE.

ASPHALT CONCRETE	TYPE 37 TOP
SECTION	1-1/2" TOP
PRODUCER	BUFFALO CRUSHED STONE, INC.
TEST NO.	LOCATION CHENKORNOV, NY
FINE AGGREGATE	SOURCE S-1B & S-27
TEST NO.	34824
COARSE AGGREGATE	SOURCE S-1B
TEST NO.	34824
ASPHALT CEMENT	SOURCE SHERATON, ESTERLINE CO., ITEM NO. 10A-050

NEW YORK STATE DEPT. OF TRANSPORTATION
APPROVED: *[Signature]*
DONALD H. KETCHUM
REGIONAL DIRECTOR

CITY OF BUFFALO			
HUMBOLDT PARKWAY EXTENSION FAC 52-7			
ERIE COUNTY B.I.N. 1047259			
PUBLICATION NO.	STATE	SHEET NO.	TOTAL SHEETS
1	NY	121	31
FEDERAL AID PROJECT NO. 5470 J0 80			

DESIGNED BY: *[Signature]* DATE: 9/2/86
CHECKED BY: *[Signature]* DATE: 9/2/86
ESTIMATED BY: *[Signature]* DATE: 9/2/86
CHECKED BY: *[Signature]* DATE: 9/2/86

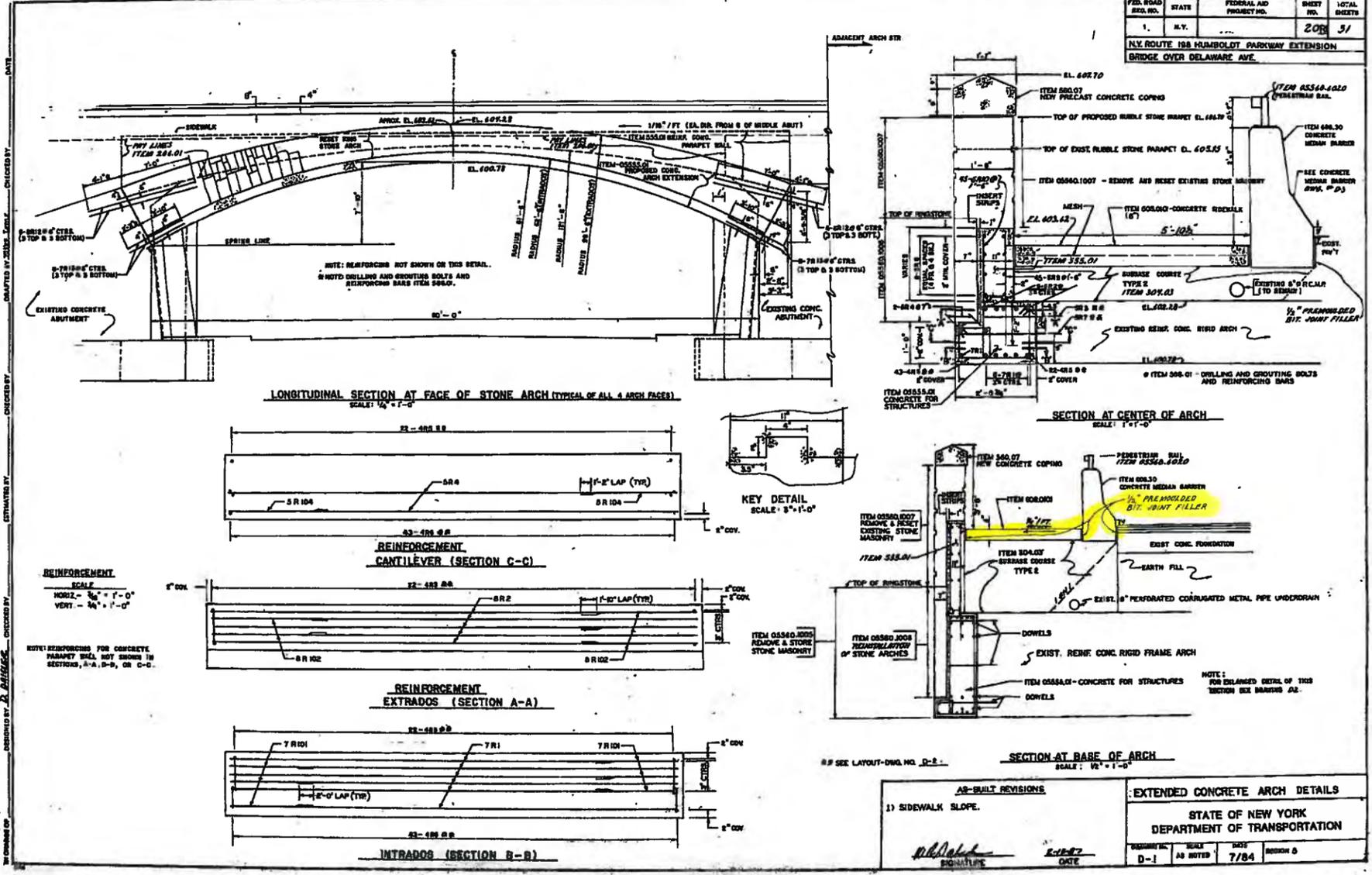
D500201



D600201

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		208	31

N.Y. ROUTE 198 MIDBOLOT PARKWAY EXTENSION
BRIDGE OVER DELAWARE AVE.



DESIGNED BY: D. J. HARRIS
 CHECKED BY: [blank]
 ESTIMATED BY: [blank]
 CHECKED BY: [blank]
 DATE: [blank]

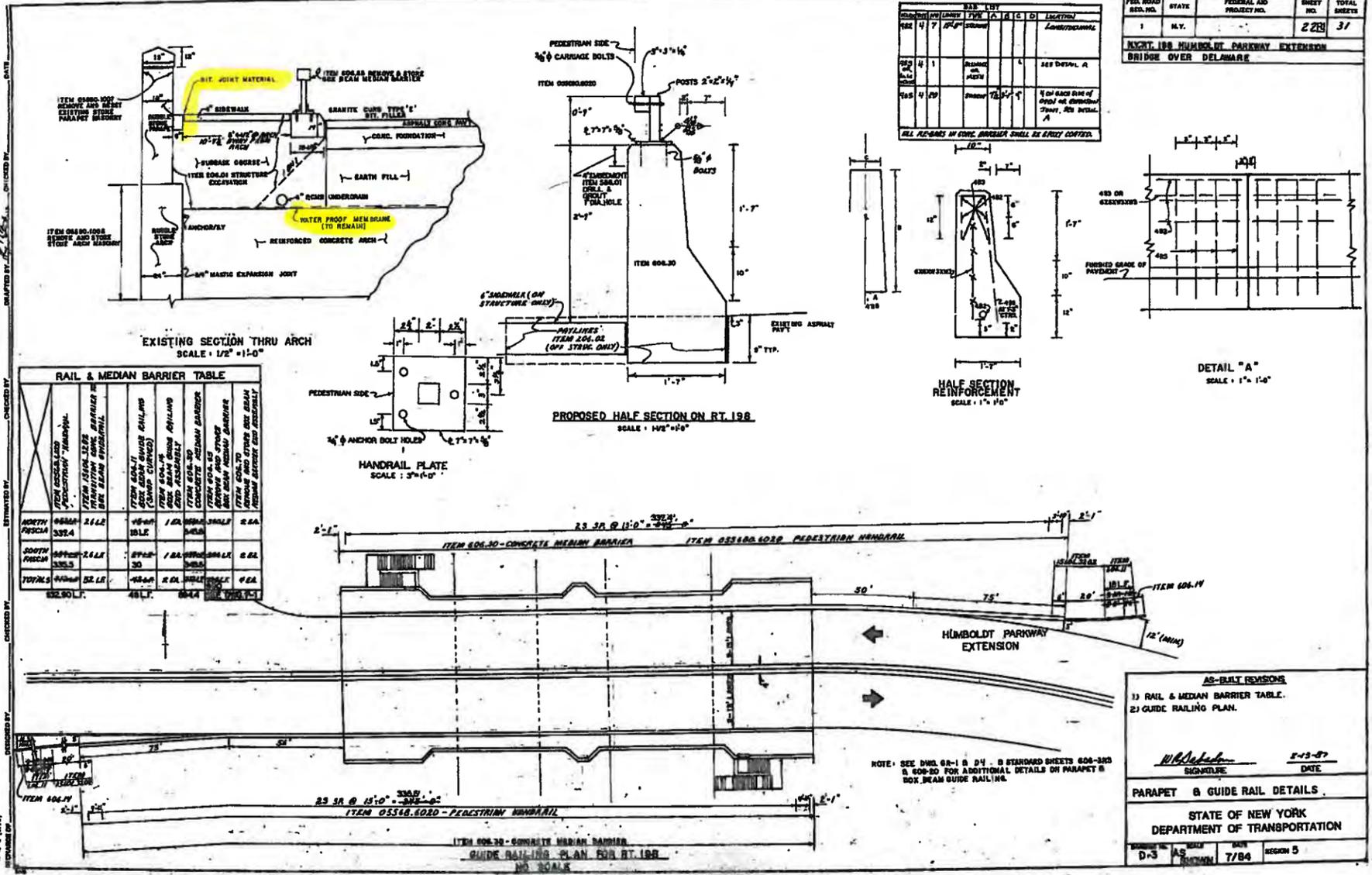


D500201

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		22B	31

NYCT 198 HUMBOLDT PARKWAY EXTENSION BRIDGE OVER DELAWARE

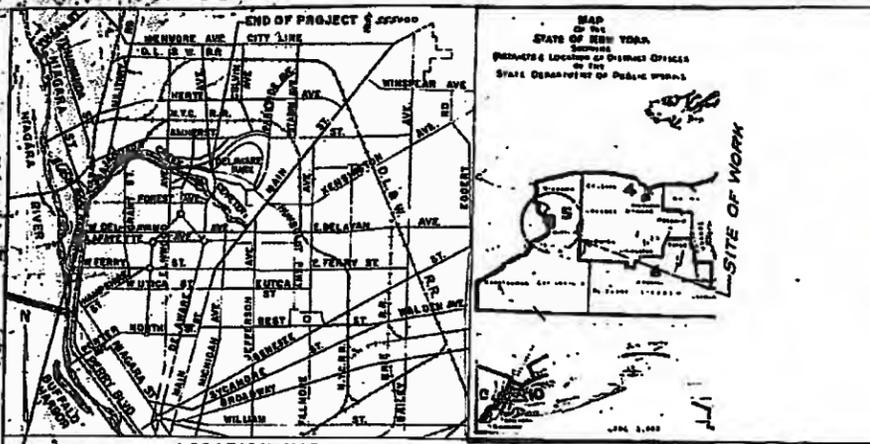
NO.	DATE	BY	DESCRIPTION
1	7/1/84	W.B. [Signature]	ISSUED FOR CONSTRUCTION
2	7/1/84	W.B. [Signature]	REVISED
3	7/1/84	W.B. [Signature]	REVISED





FASCE 58-1

FASCE 58-1



LOCATION MAP
SCALE OF MILES



STATE OF NEW YORK
DEPARTMENT OF PUBLIC WORKS
DIVISION OF CONSTRUCTION
PLANS FOR CONSTRUCTING WITH FEDERAL AID THE
SCAJAQUADA CREEK EXPRESSWAY: Section 2
(NIAGARA STREET TO DELAWARE AVENUE)
From Station 454+00 to Station 555+00, a length of 1.91 miles (And an additional length of 1.95 miles of City Streets and Ramps) in the City of Buffalo
P.A. PROJECT NO. U-UG-1087(2) CONTRACT NO. P.A.S.C.E. 58-1
147 SHEETS
ERIE COUNTY

TYPE OF CONSTRUCTION		
Asphalt Concrete, Type 2A		1.37 Miles
Miscellaneous Work		0.54 Mile
Asphalt Conc. Type 2A (City Sts. & Ramps)		1.95 Miles
Including		
Twin Reinf. Conc. Closed Box, (Sta. H 453+33) 20'x19'-47' 6" long		
Twin Reinf. Conc. Closed Box, (Sta. 10+51 West Ave.) 20'x16', 70' 0" long		
Twin Reinf. Conc. Closed Box, (Station D 5+41.40 Grant St.) 20'x12' 6", 58' 1" long		
Grade Separation Struct., (Sta. 491+96.48, Grant St.) Welded Plate Girder, 3 Spans, 2 @ 111' 0" and 1 @ 35' 0"		
Twin Reinf. Conc. Closed Box, (Sta. F3+67, Grant St.) 20'x12' 6", 58' long		
Twin Reinf. Conc. Closed Box, (Sta. E5+32.5, Grant St.) 20'x12', 80' 6 1/2" long		
Grade Separation Struct., (N.Y.C.R.R. & Scajquada Cr.) (Sta. 497+97.06) Welded Plate Girder, 2 Spans, 1 @ 112' 7" and 1 @ 110'		
Bridge (Sta. C 9+70, Elmwood Ave.) Welded Plate Girder, 139' Span		
Grade Separation Struct., (Station 527+29.99 Elmwood Ave.) Welded Plate Girder, 4 Spans, 40' 6", 92' 0", 104' 0" and 43' 4 1/2" each		
Bridge, (Station K 9+73, Elmwood Ave.) Rolled Beam Girder, 2 Spans, 1 @ 93' 6" and 1 @ 75' 6"		
Bridge (Sta. 535+01, Delaware Park Lake) Rolled Beam Girder, 90' Span		
STANDARD STRUCTURE SHEETS		
56-1, 46-4, 57-7, 54-9, 58-11A, 58-11B, 58-11W, 58-17, 54-18P, 57-19, 51-21, 50-34, 55-41, 49-42, 56-43R, 54-45, 58-48A, 58-48B, 58-48C, 58-48X, 57-54R, 58-11B, 40-101R, 40-103R, 58-106, 58-107, 58-108, 54-13A, 54-33C, 53-51, 58-109A, 58-109B		

FED. DIV. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	NY	U-UG-1087(2)	1957	147	147

SECTION 2
GRANT ST. INTERCHANGE TO DELAWARE AVE INTERCHANGE
1R

All work contemplated under this contract to be covered by and in conformity with the specifications adopted January 2, 1957, except as modified on these plans and in the Itemized Proposal.

PREPARED AND RECOMMENDED BY:
William H. McFarland 12-30-57
WILLIAM H. McFARLAND
Engineer
N.Y.S. P.E. Lic. No. 20143

DEPARTMENT OF PUBLIC WORKS

APPROVED BY:
E. H. Youngmann
E. H. YOUNGMANN
District Engineer

APPROVED BY:
B. A. Lefevre
B. A. LEFEVRE
Deputy Chief Engineer

APPROVED BY:
Carroll F. Blanchard
CARROLL F. BLANCHARD
Deputy Chief Engineer

APPROVED BY:
Thomas F. Fitzgerald
THOMAS F. FITZGERALD
Chief Engineer

NEW YORK STATE THRUWAY AUTHORITY

APPROVED BY:
CLINTON B. F. BRILL
Chairman

CITY OF BUFFALO

APPROVED BY:
FRANK A. SEDITA
Mayor

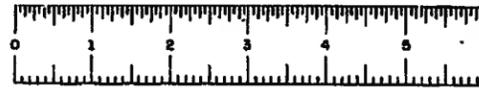
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED BY:

CONTRACT	CONTRACTOR	ENGINEER	COST
DATED - JUNE 6, '58 BEGUN - JUNE 24, '60 COMPL. - JULY 16, '60 AC'PT'D. AUG. 18, '60	JOHNSON, DRAKE, AND PIPER, INC. 66 TRINITY PL. NEW YORK, N.Y.	Wm. H. McFARLAND 333 FRONT ST. BINGHAMTON NY	TOTAL - \$6,253,398.47 PER.MI. - \$1,286,880.00 EXCLUSIVE OF ENGINEERING

ORIGINAL RECORD PLAN
MADE BY D.L. HAVLIN
DEC. 1959 - JAN. 1960
CHECKED BY J.R. NICHOLS
DEC. 1959 - JAN. 1960

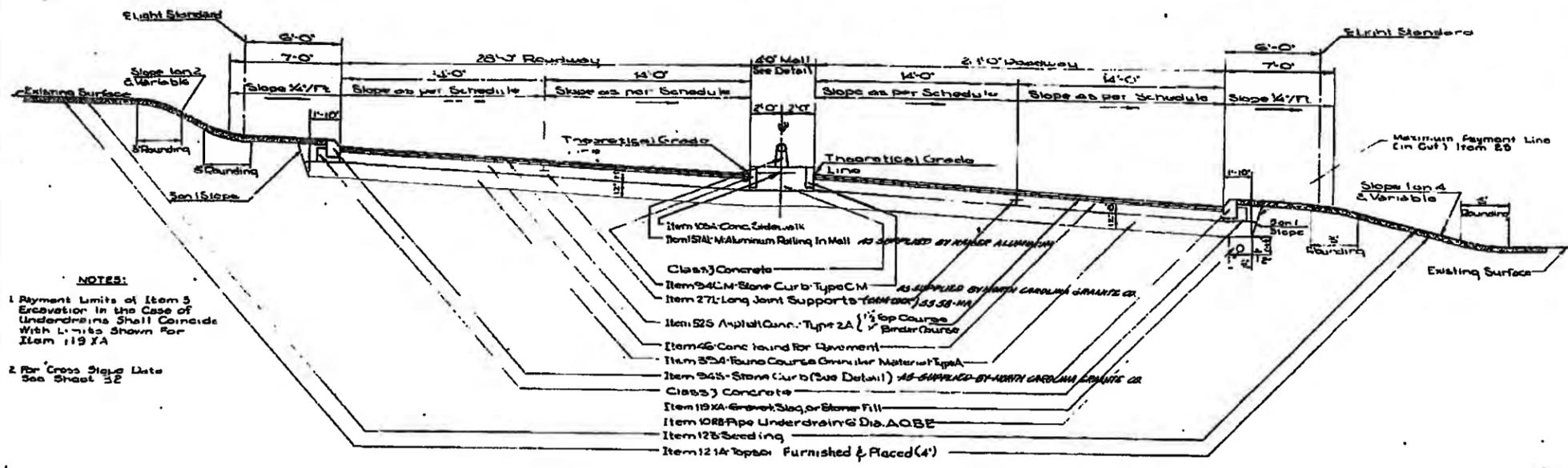
JAN 27 1958



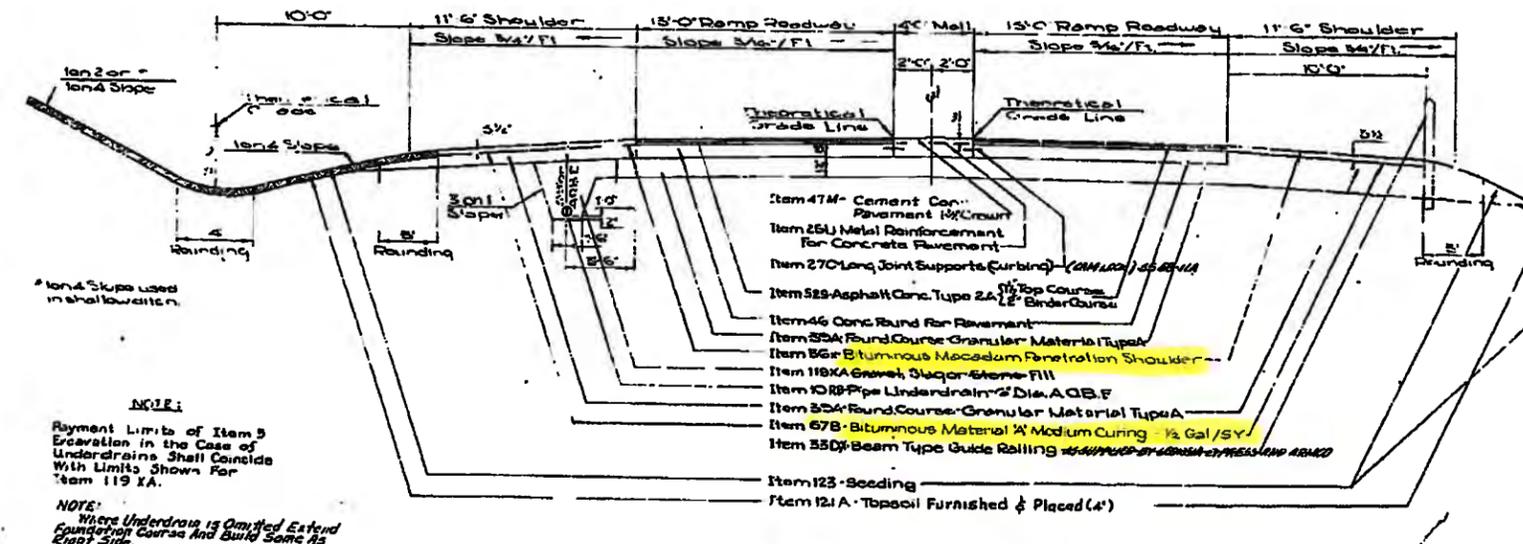
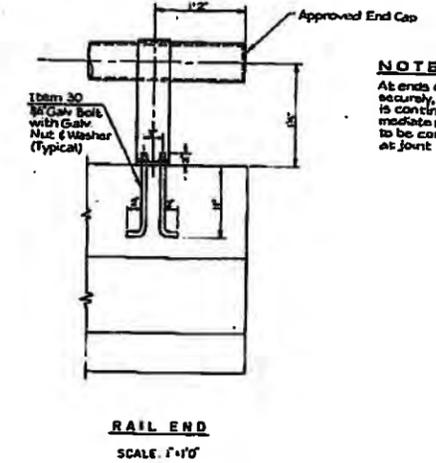
6R

FED. RD. DIV. NO.	STATE	FEDERAL PROJECT	AID NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	U-46-1087			6	147

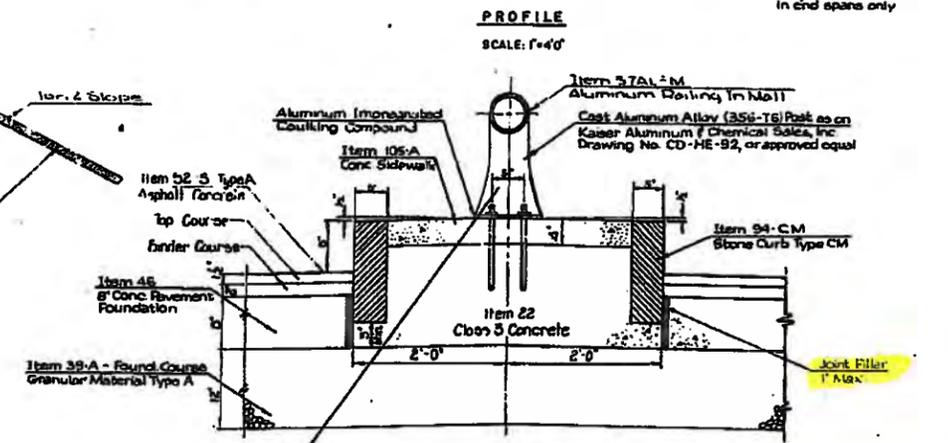
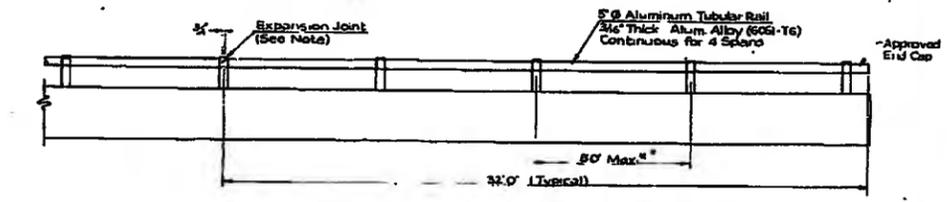
CITY OF BUFFALO
SCAJAQUADA CREEK EXPRESSWAY
NIAGARA THRUWAY-DELAWARE AVE.
SECTION 2
GRANT ST. INTERCHANGE TO DELAWARE AVE INTERCHANGE



TYPICAL EXPRESSWAY SECTION
FROM LINCOLN PARKWAY TO DELAWARE AVENUE
SCALE: 1/4" = 1'-0"



TYPICAL TANGENT SECTION - RAMP
TWO-WAY OPERATION
SCALE: 1/4" = 1'-0"



EXPRESSWAY MALL AND RAIL DETAILS

STATE OF NEW YORK - DEPARTMENT OF PUBLIC WORKS
CITY OF BUFFALO
SCAJAQUADA CREEK EXPRESSWAY - SECTION 2
TYPICAL SECTIONS EXPRESSWAY MALL AND RAIL DETAILS
PREPARED AND RECOMMENDED BY
William H. McFarland
WILLIAM H. MCFARLAND
ENGR.

Designed By: S. Davis, E. J. ...
Traced By: B. ...
Checked By: ...



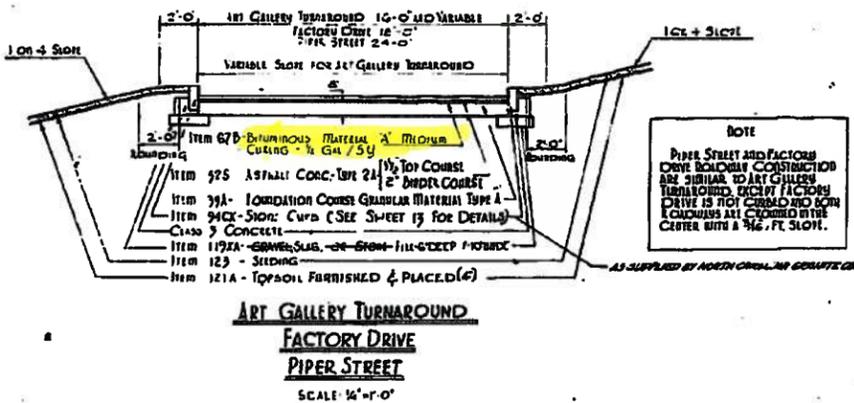
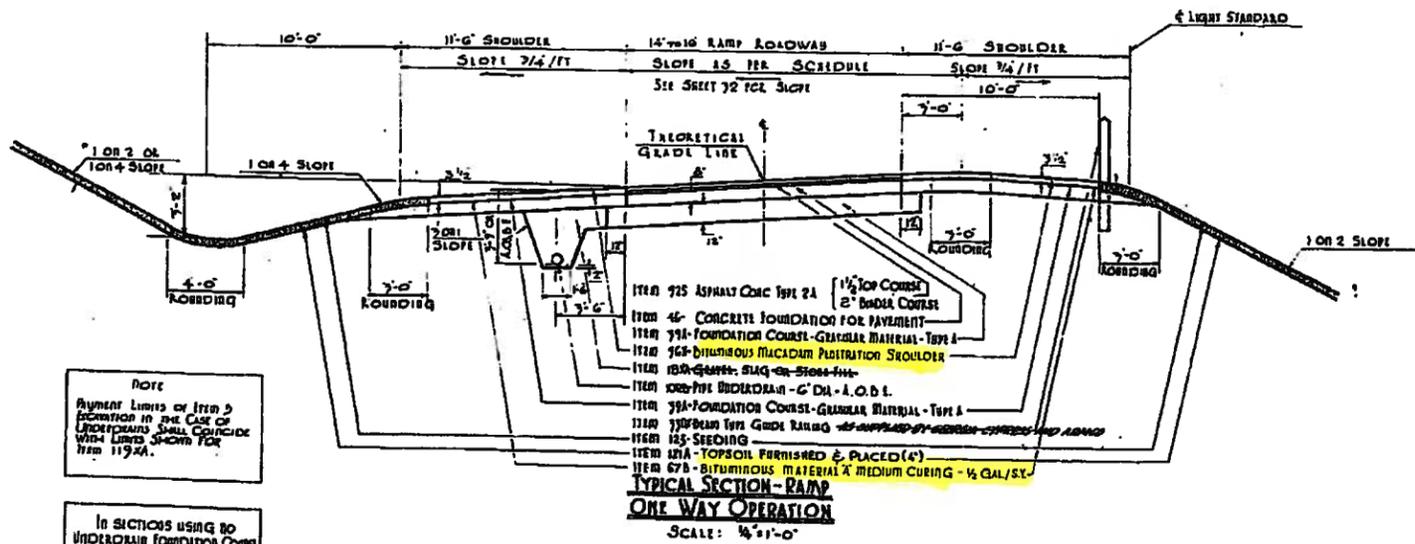
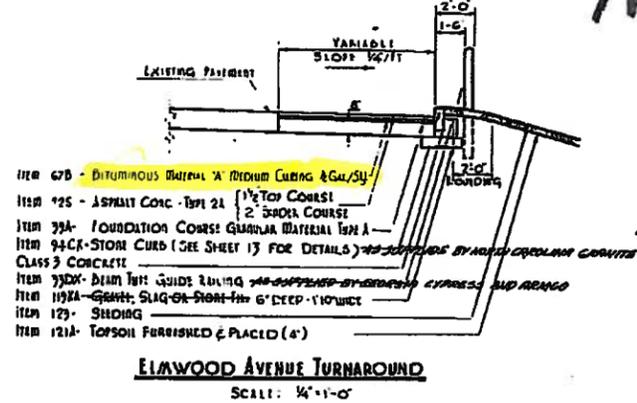
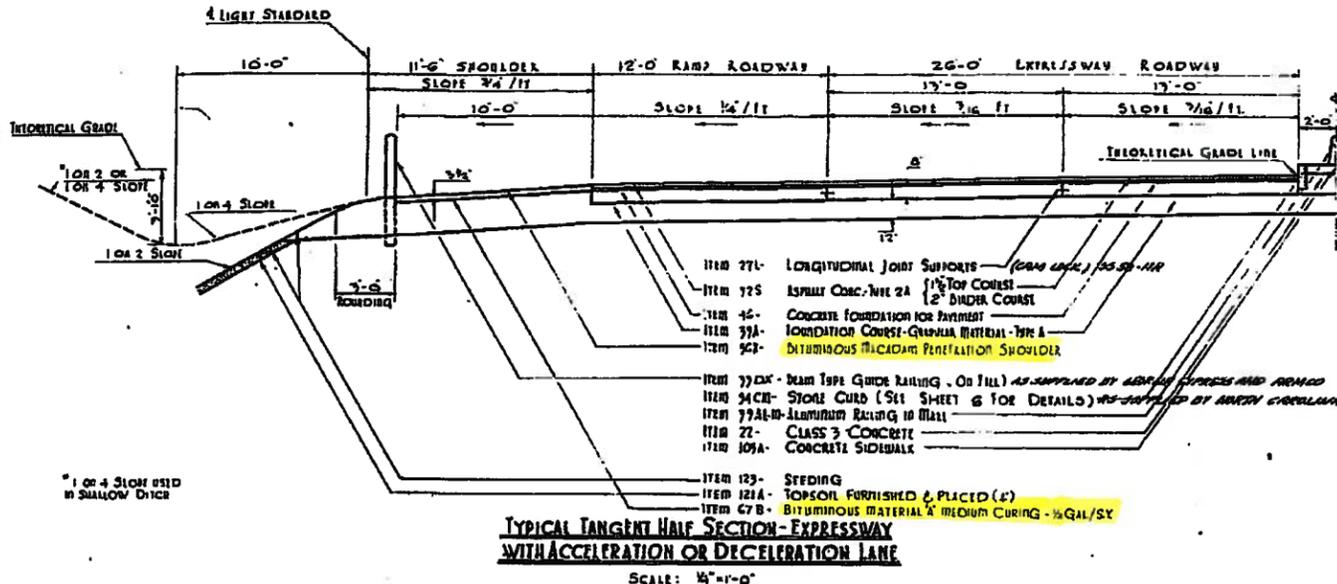
FASCE 58-1

FASCE 58

FED. RD. DIV. NO.	STATE	FEDERAL PROJECT NO.	AID YEAR	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	116-1087a			7	137

CITY OF BUFFALO
SCAJAQUADA CREEK EXPRESSWAY
NIAGARA THRUWAY - DELAWARE AVE.
SECTION 2
GRANT ST. INTERCHANGE TO DELAWARE AVE INTERCHANGE

7R



NOTE
PIPER STREET AND FACTORY DRIVE BEARING CONSTRUCTION AND TURNAROUND CONSTRUCTION DRIVE IS NOT COMPLETED BOTH CONCOURS ALL COMPLETED BY THE CENTER WITH A 1/2" FT. SLOPE.

NOTE
Payment Limits of Item 5 Section in the Case of Proposals Shall Coincide with Limits Specified for Item 1192A.

In sections using no UNDERDRAIN FOUNDATION COURSE (ITEM 39A) SHALL BE EXTENDED & TREATED WITH 6" ITEM 39A & SLOPED AS IN THE ABOVE TYPICAL SECTION

Designed by: Walter Dwyer, Inc.
 Traced by: H. G. Russell
 Checked by: R. Taylor

STATE OF NEW YORK - DEPARTMENT OF PUBLIC WORKS
 CITY OF BUFFALO
 SCAJAUQUADA CREEK EXPRESSWAY - SECTION 2
 TYPICAL SECTIONS
 PREPARED and RECOMMENDED
William H. McFarland
 N.Y.S. RE. LIC. No. 2043, DATE 12-31-57
 WILLIAM H. MCFARLAND ENGINEER



FASCE 58-1

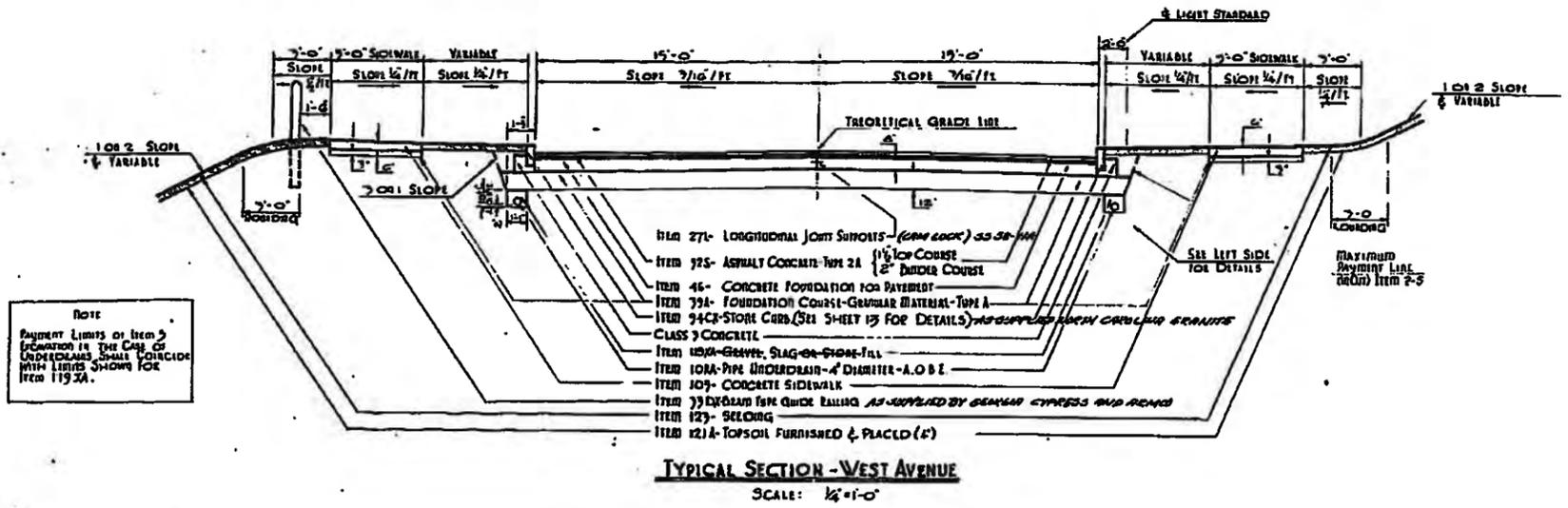
FASCE 58-1

FED. DIV. NO.	STATE	FEDERAL PROJECT NO.	AID YEAR	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	NY	14-11-6-1087m			8	147

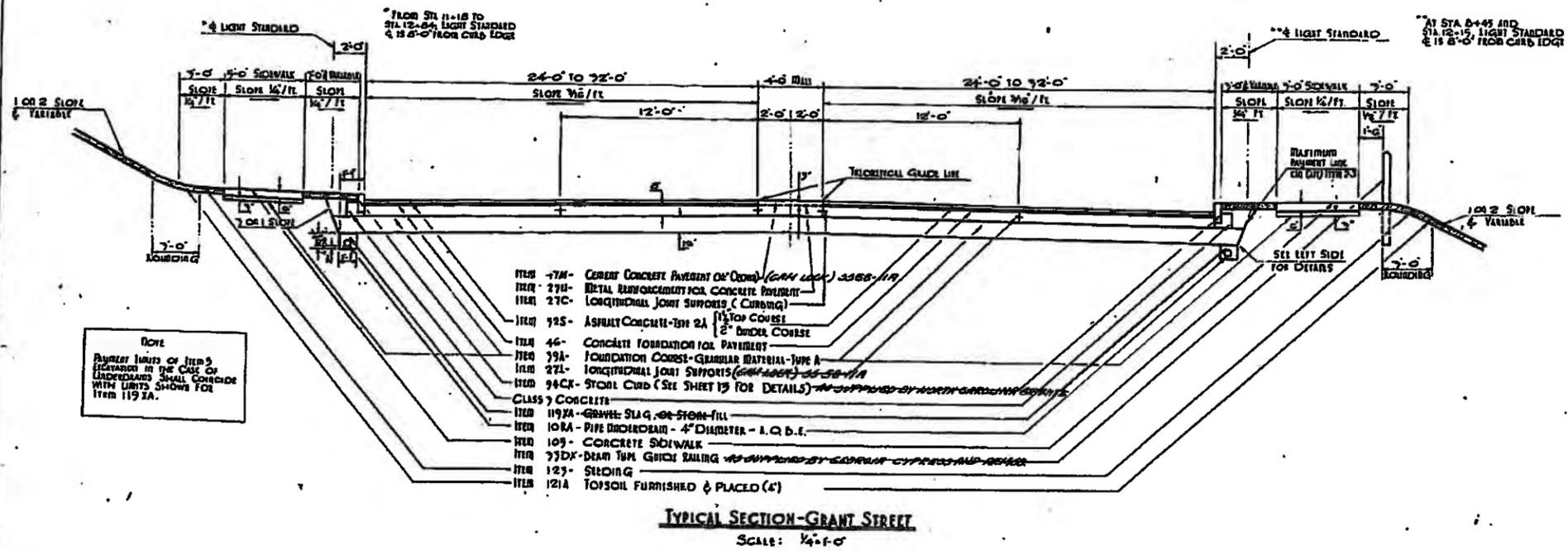
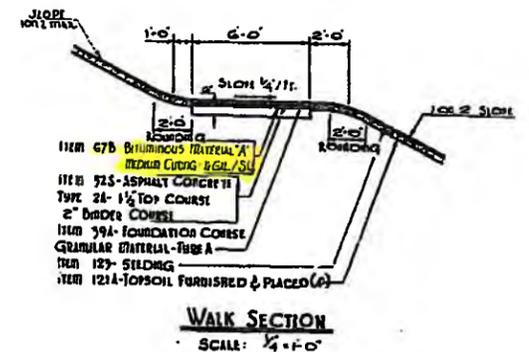
CITY OF BUFFALO
SCAJAQUADA CREEK EXPRESSWAY
NIAGARA THRUWAY - DELAWARE AVE.

SECTION 2
GRANT ST. INTERCHANGE TO
DELAWARE AVE. INTERCHANGE

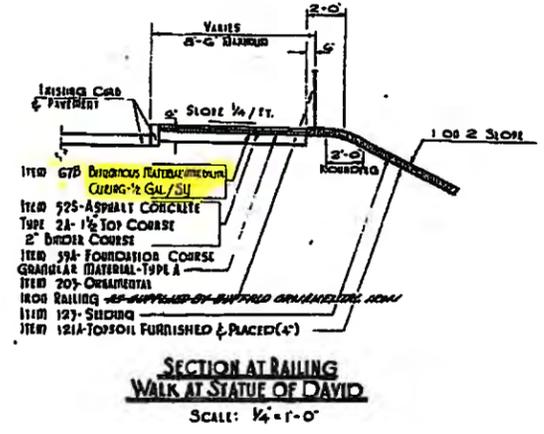
8R



NOTE
Payment limits of Item 3 foundation in the case of underdrains shall coincide with limits shown for Item 1192A.



NOTE
Payment limits of Item 3 foundation in the case of underdrains shall coincide with limits shown for Item 1192A.



Designed by: *Wickham*
 Traced by: *A.S. Russell*
 Checked by: *A. Taylor*

AS BUILT

STATE OF NEW YORK - DEPARTMENT OF PUBLIC WORKS
 CITY OF BUFFALO
 SCAJAUADA CREEK EXPRESSWAY - SECTION 2

TYPICAL SECTIONS

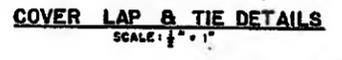
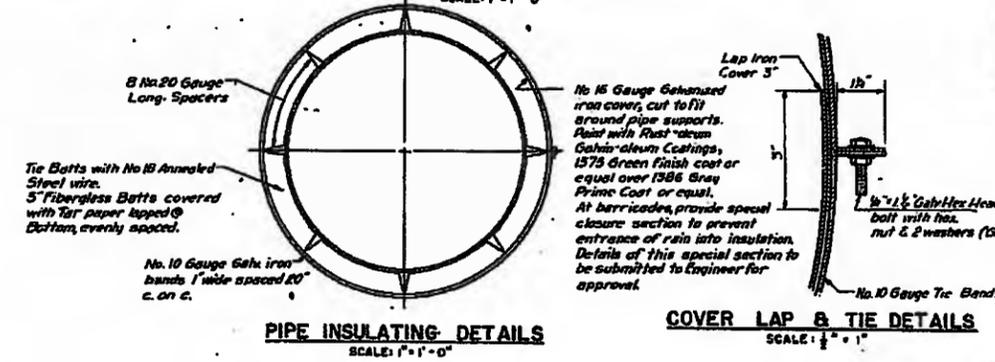
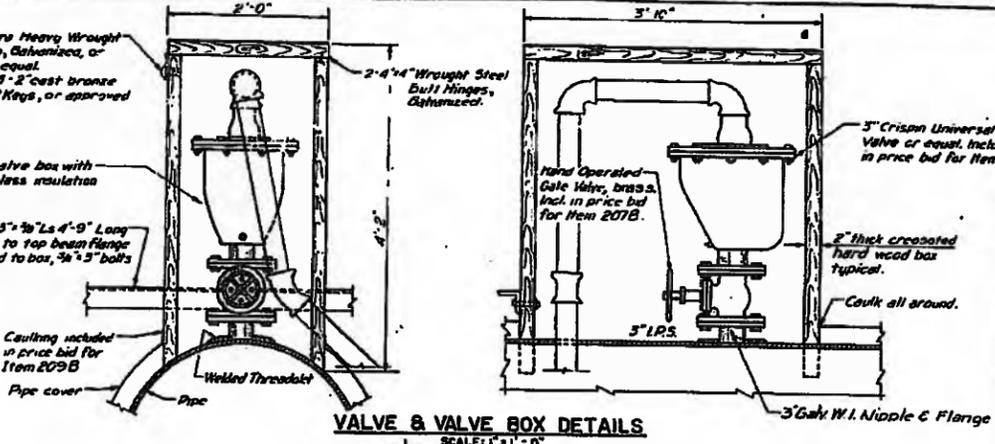
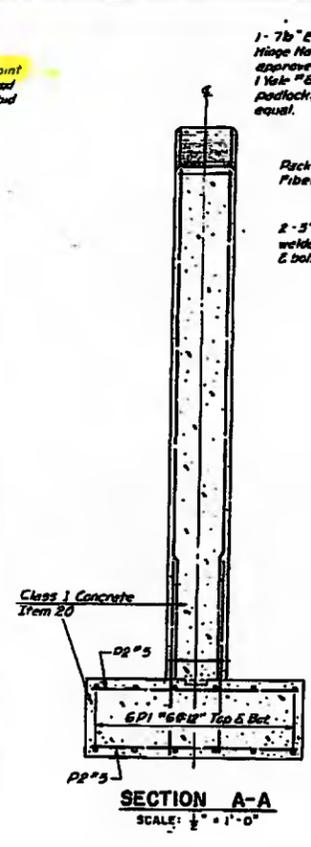
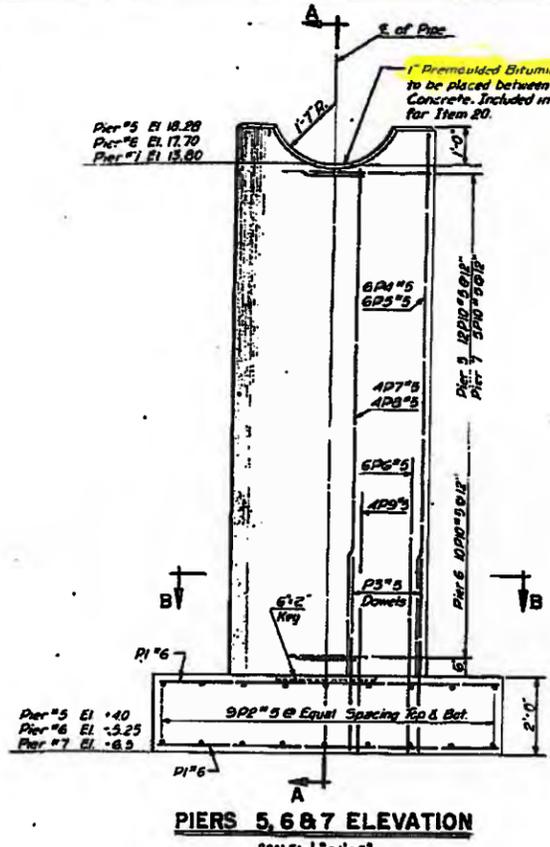
PREPARED and RECOMMENDED
William H. McFarland NYS. REG. LIC. NO. 2043, DATE 12-24-47
 WILLIAM H. MCFARLAND ENGINEER



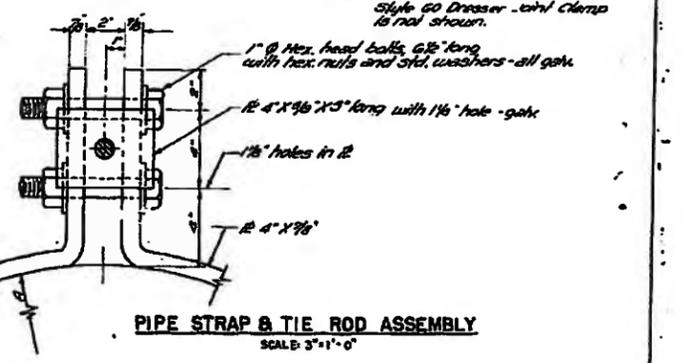
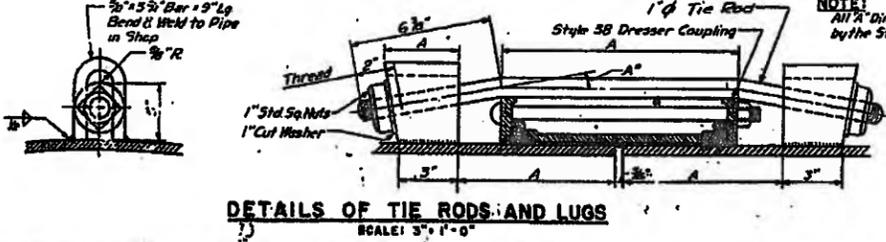
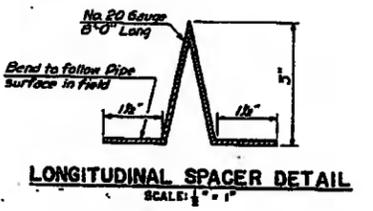
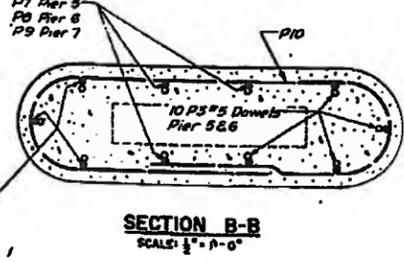
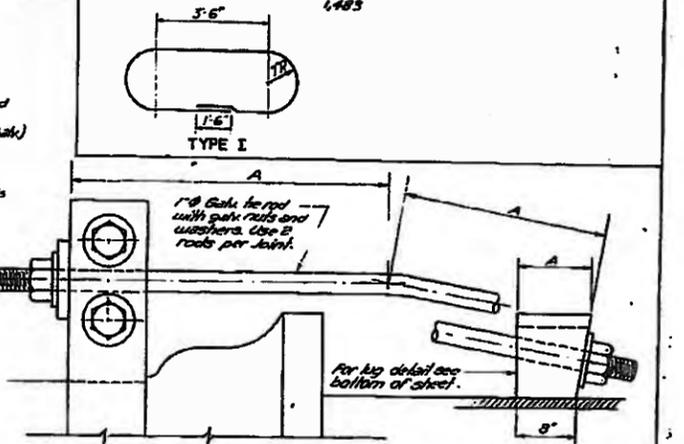
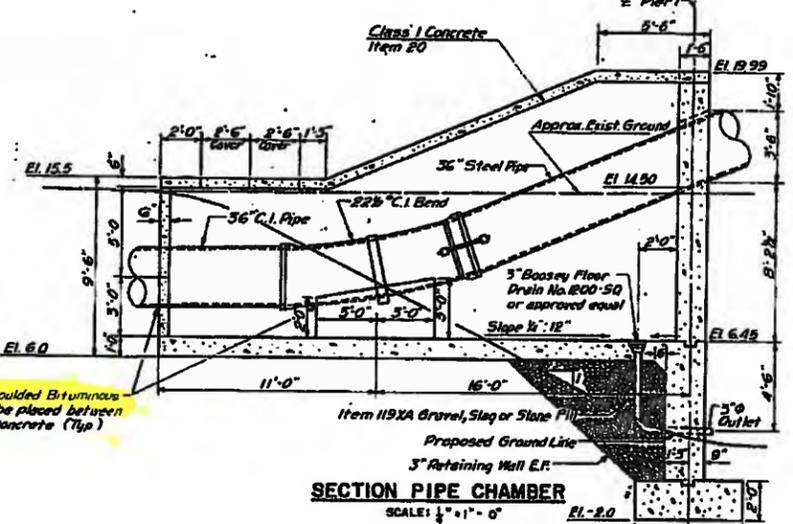
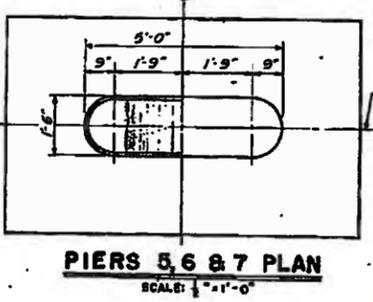
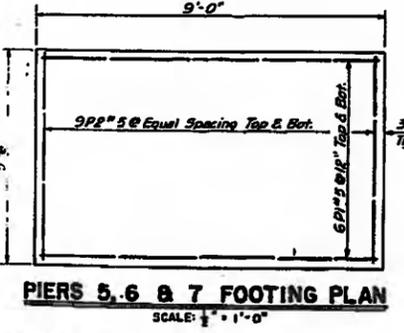
FASCE 58-1

21R

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	U-16-10B7(2)		21	147
CITY OF BUFFALO SCAJAQUADA CREEK EXPRESSWAY NIAGARA THRUWAY - DELAWARE AVE					
SECTION 2 GRANT ST. INTERCHANGE TO DELAWARE AVE. INTERCHANGE					



FINAL PIER # 5, 6 & 7-BAR SCHEDULE										
TOT. WT.	MARK	SIZE	TYPE	NO.	LGTH.	WGT.	LOCATION			
468.62	P1	#6	Str	56	8'-0"	469	Footings Long. Top & Bottom			
291.00	P2	#6		56	3'-2"	291	Trans. "			
88.66	P3			20	4'-3"	89	Column Dowels Pier 1, 5 & 6			
75.10	P4			6	18'-0"	78	Verticals Pier 5			
63.62	P5			6	10'-2"	64	" "			
43.81	P6			6	7'-0"	44	" "			
45.89	P7			4	11'-0"	46	" "			
38.24	P8			4	9'-2"	38	" "			
25.09	P9			4	6'-0"	25	" "			
342.68	P10	#5	I	27	12'-2"	342	Horiz. all Piers			
TOTAL:							2476			



PIER AND PIPE DETAILS

As Built
STATE OF NEW YORK - DEPARTMENT OF PUBLIC WORKS
CITY OF BUFFALO
SCAJAQUADA CREEK EXPRESSWAY - SECTION 2
WATER MAIN BRIDGE
AT STA. 493+00

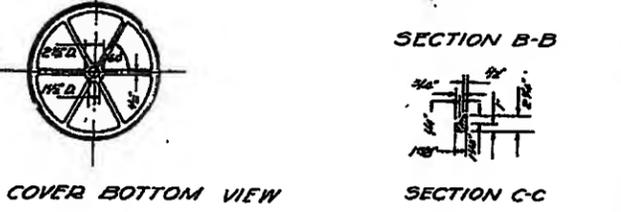
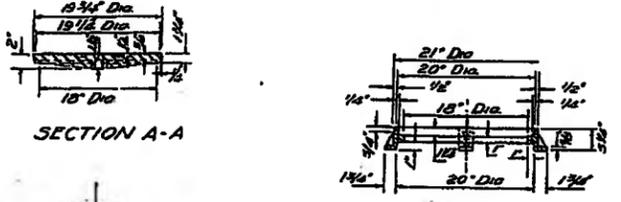
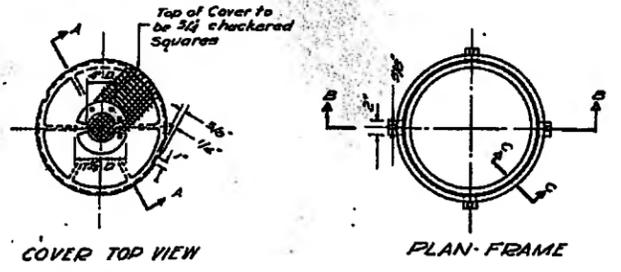
PREPARED and RECOMMENDED
WILLIAM H. McFARLAND
N.Y.S. RE. LIC. NO. 20143 DATE 12-30-67
ENGINEER

Designed By: K. Root
Traced By: R. Durkin, R. Gorman
Checked By: J. Tytko

FED. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	4-UG-1087(B)		26	147

CITY OF BUFFALO
SCAJAQUADA CREEK EXPRESSWAY
NIAGARA THRUWAY - DELAWARE AVE.
SECTION 2
GRANT ST. INTERCHANGE TO
DELAWARE AVE. INTERCHANGE

26R



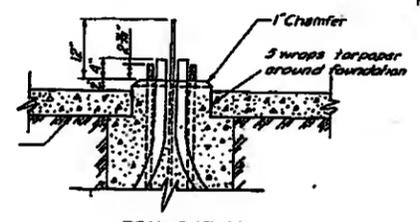
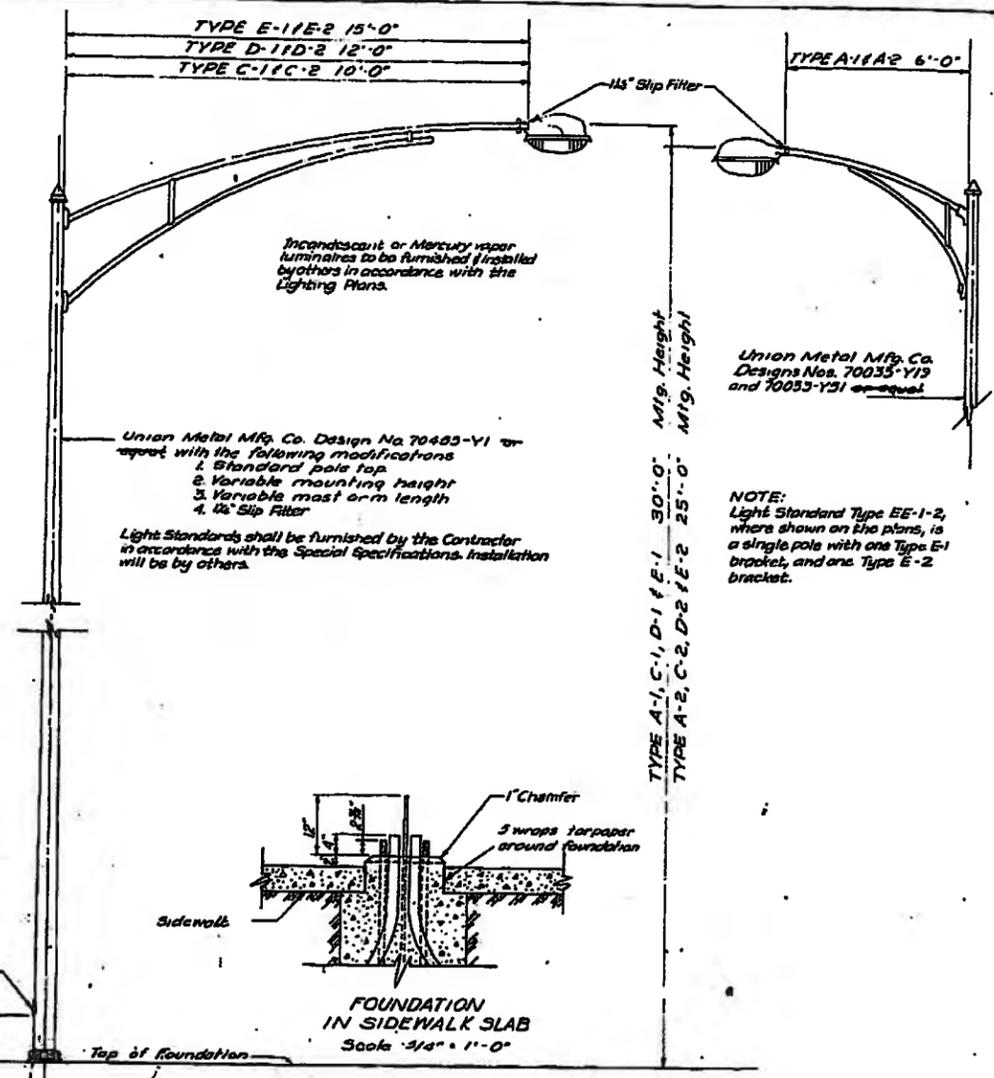
HANDHOLE FRAME & COVER-ROADWAY
Scale 1" = 1'-0"

MATERIAL
Material shall conform to A.S.T.M. Specs. for Std. gray iron castings Serial Designation 48-35 Class No. 30.

WORKMANSHIP
Castings to be sound, free from defects and true to drawing sizes. Contact surfaces on frame and cover shall be ground if necessary to insure uniform bearing.

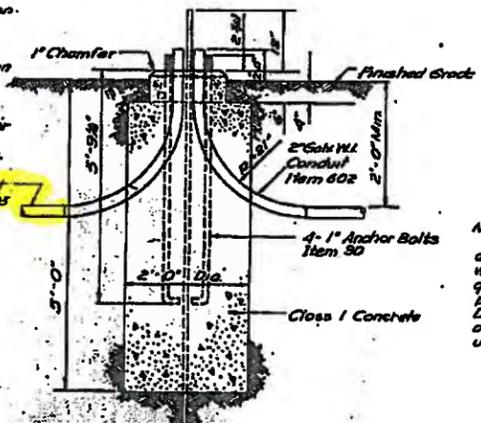
MARKING
Date cast and foundry initials shall be cast on each piece. Markings to be on inside wall of frame and underside of cover.

TRENCH NOTES
The trench shall be graded to provide a fall of 3" per 100' toward drainage pockets. Drainage pockets shall be constructed in each conduit run but not within 2' of lighting standard foundations. They shall be 18" square and 20" deep, filled with graded stone 1/2" to 2" size and covered with a 2" class 3 concrete pad. A tee of the same material as the duct used shall drain the duct through the concrete pad to the stone. Payment for furnishing and installing drainage piping shall be included in price bid for Item 603. Cement will be paid for under its respective amount item. Payment for the gravel drainage pocket & concrete pad shall be included in price bid for Item 5X.

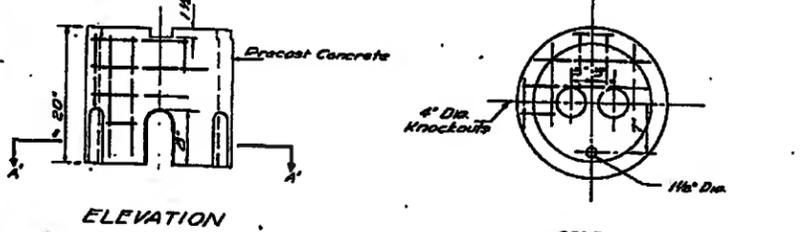
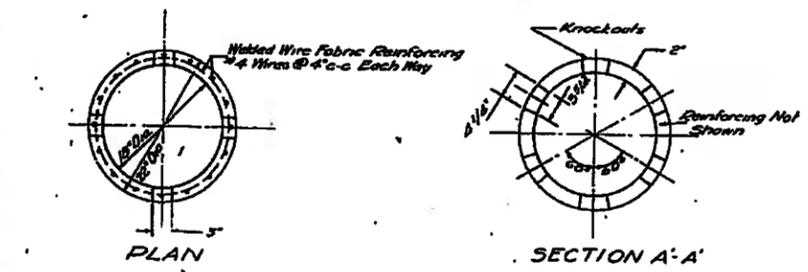


LIGHTING STANDARD
Scale 3/4" = 1'-0"

NOTE:
Payment for "Foundation for Lighting Standard" Item 606 shall be for foundation complete in place, including excavation beyond limits of duct trench excavation, grinding rod, concrete, and backfill. Galvanized W.L. Conduits, anchor bolts, and cement will be paid for under their respective items.

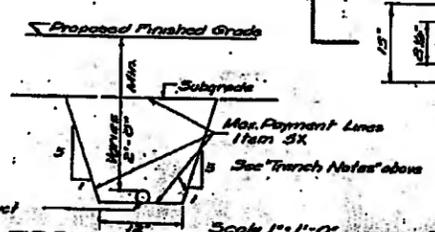


NOTE:
All anchor bolts and appurtenant nuts and washers shall be galvanized to meet the provisions of A.S.T.M. Designation A 153, and shall be paid for under Item 30.

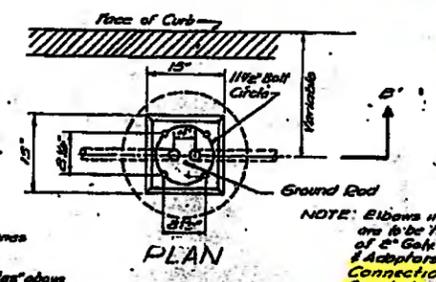


NOTE:
Concrete Plugs to be furnished for each Knockout Hole

DETAILS OF HANDHOLE - ITEM 611
Scale 1" = 1'-0"



TYPICAL TRENCH EXCAVATION FOR DUCTS
Scale 1" = 1'-0"



NOTE: Elbows in Concrete are to be fabricated of 2" Galv. W.L. Conduit & Adaptors used for connection to Fiber Conduit.

TYPICAL CONCRETE FOUNDATION FOR LIGHTING STANDARDS - ITEM 606
Scale 3/4" = 1'-0"

Designed by: [Name]
Checked by: [Name]
Drawn by: [Name]

As Built

STATE OF NEW YORK - DEPARTMENT OF PUBLIC WORKS
CITY OF BUFFALO
SCAJAQUADA CREEK EXPRESSWAY - SECTION 2
LIGHTING DETAILS
PREPARED AND RECOMMENDED
W. H. McFarland
WILLIAM H. McFARLAND ENGINEER

FED. RD. DIV. NO. STATE PROJECT NO. AID NO. FISCAL YEAR SHEET NO. TOTAL SHEETS

34R

ITEM 10 RA PIPE UNDERDRAIN - 4" DIA. FROM STATION TO STATION LENGTH

ITEM 10 RB PIPE UNDERDRAIN - 6" DIA. FROM STATION TO STATION LENGTH

COORDINATES STATION BEARING DISTANCE NORTH EAST

LIMITS OF BANK PROTECTION AND FDTN. CRS. BNK. PROTECTION

BENCH MARKS NO. ELEV. DESCRIPTION

LIGHT STANDARDS ITEM No. TYPE No. REQUIRED

LIGHTING CONDUITS Material - Item 608

DISPOSAL OF BUILDINGS DESCRIPTION LOCATION DISPOSAL

ROADSIDE DELINEATORS TYPE ITEM No. MEAT QUANTITY ROUND QUANTITY

TRANSFORMER BUILDING - ITEM 612 LOCATION

GAS WELL BUILDING - ITEM 613 NEW ITEM AT AN AGREED PRICE

As Built STATE OF NEW YORK - DEPARTMENT OF PUBLIC WORKS

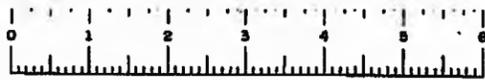
* INCLU. F. 49 L.F. FROM ELM. 5' 0" - 5' - 6" - 6" 1' 8" * DELETED FROM CONTRACT DUE TO UNDERGROUND UTILITIES

BENCH MARKS NO. ELEV. DESCRIPTION

ITEM 80A-S GROUTED RIP-RAP STATION POS. SLOPE INK. WIDTH CB YDS. REMARKS

Designed By: Winterberger, Inc. Traced By: R. Wallenberg Checked By: Q. Taylor

* DELETED FROM CONTRACT. REMOVED BY OWNER 1 DELETED FROM CONTRACT

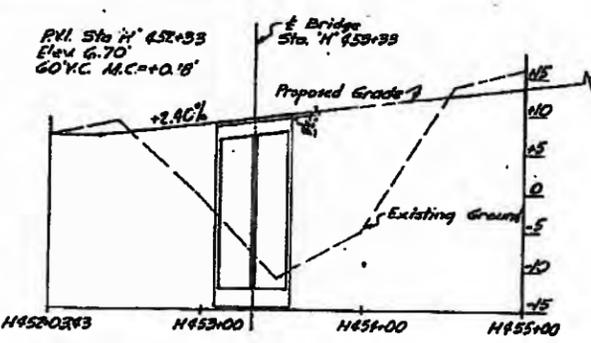
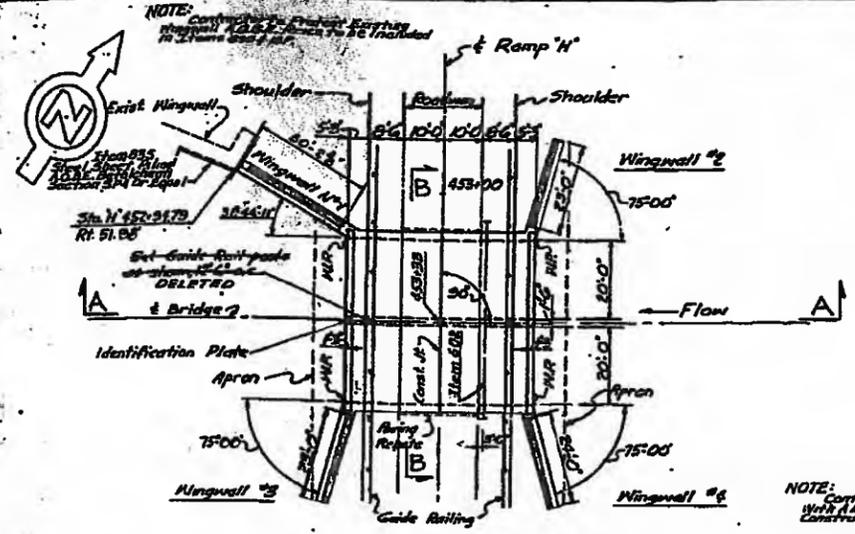


FASCE 58-1

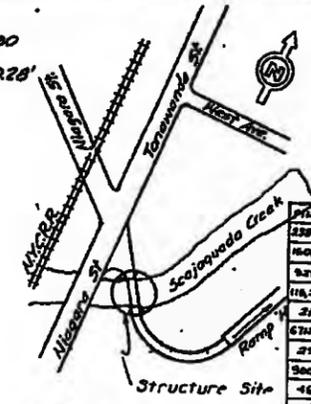
FASCE 58-1

STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
N.Y.	U-46-10873		71	147

CITY OF BUFFALO
SCAJAQUADA CREEK EXPRESSWAY
NIAGARA THRUWAY - DELAWARE AVE.
SECTION 2
GRANT ST. INTERCHANGE TO
DELAWARE AVE. INTERCHANGE

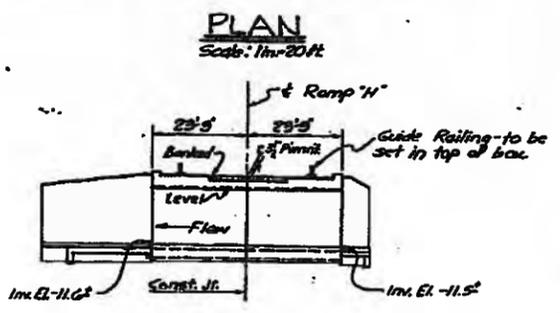


RAMP 'H' PROFILE
Scale: 1 in = 10 ft. Vert.
1 in = 50 ft. Horiz.

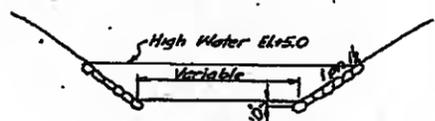


LOCATION PLAN
Scale: 1 in = 200 ft.

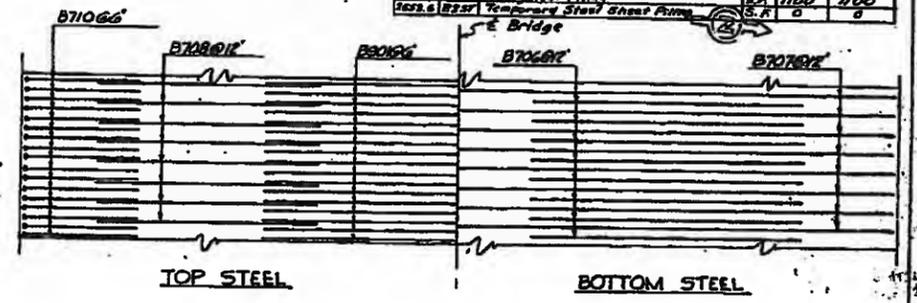
ITEM NO.	ITEM	UNIT	NEAT	REMARKS
100	Trench, Culvert and Bridge Excav.	C.Y.	866	1438
101	Portland Cement-Type 2	BBL	568	1630
102	Class 1A Concrete for Structures	C.Y.	939	985
103	Bar Reinforcement for Structures	LA.	11673	173580
104	Bituminous Material	Sq. Ft.	288	280
105	Cofferdams	S.F.	5270	3800
106	Steel Bearing Test Piles	L.F.	432	285
107	Steel Bearing Piles 10 B.P.42	L.F.	9618	10875
108	Splices for Steel Bearing Piles	Sq. Ft.	62	38
109	Furnishing Equip. for Driving Piles	L.S.	10%	10%
110	Gravel, Slog or Stone Filling	C.Y.	1689	1810
111	5 Inch Galv. W.I. Conduit	L.F.	47	52
112	Selection Embankment in Place	C.Y.	700	800
113	Unpaved Bank, Channel Excavation	C.Y.	800	800
114	Steel Sheet Piling	S.F.	1100	1100
115	Reinforced Steel Sheet Piling	S.F.	0	0



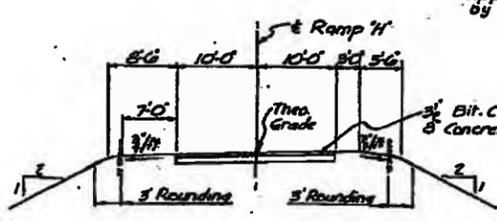
SECTION A-A
Scale: 1 in = 20 ft.



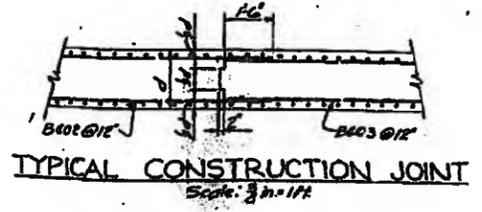
TYPICAL SECTION RELOCATED CHANNEL
Scale: 1 in = 20 ft.



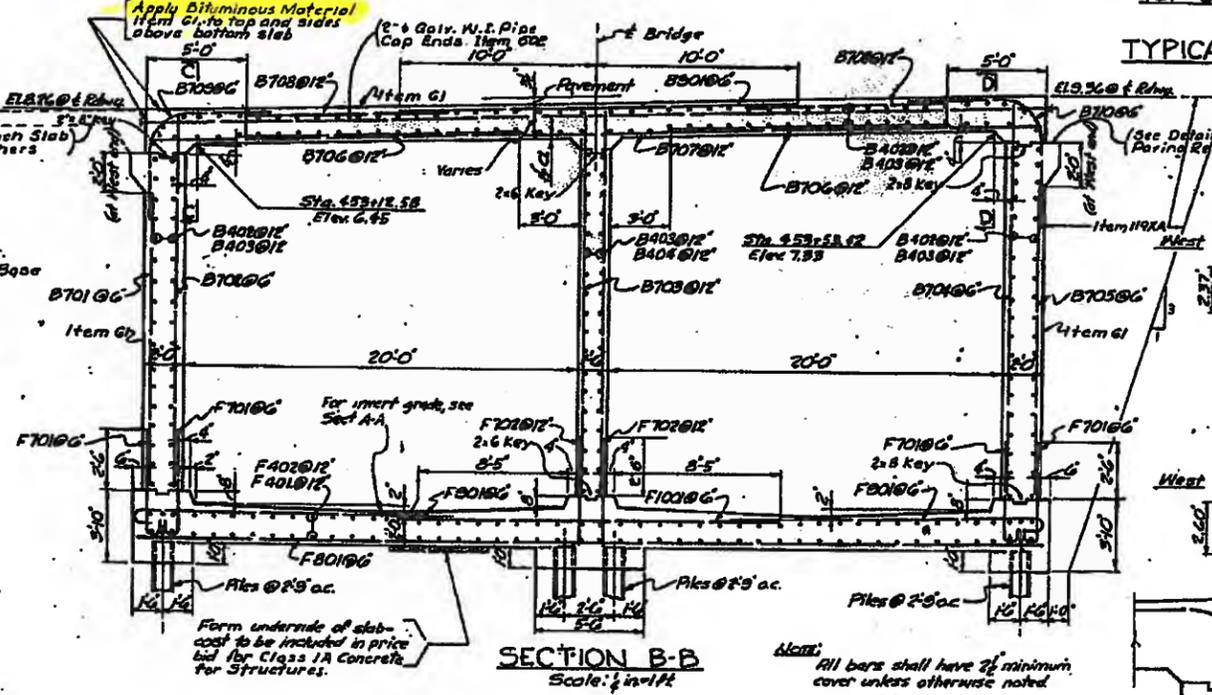
TYPICAL LAYOUT ~ ROOF SLAB REINFORCING
Scale: 1/2 in = 1 ft.



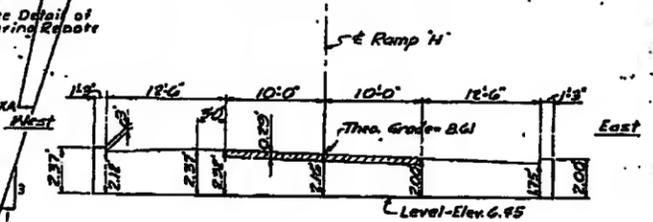
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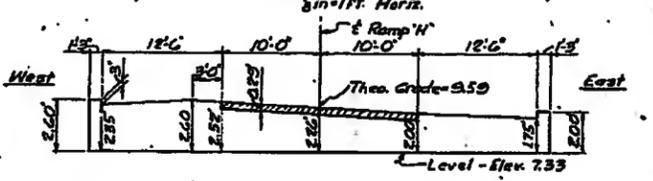
TYPICAL CONSTRUCTION JOINT
Scale: 3/4 in = 1 ft.



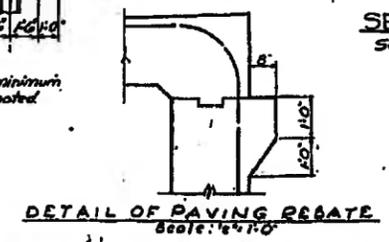
SECTION B-B
Scale: 1/2 in = 1 ft.



SECTION C-C (Sta. 453+12.50)
Scale: 1/2 in = 1 ft. Vert.
1 in = 1 ft. Horiz.



SECTION D-D (Sta. 453+53.42)
Scale: 1/2 in = 1 ft. Vert.
1 in = 1 ft. Horiz.



DETAIL OF PAVING REGATE
Scale: 1/4 in = 1 ft.

DATE: 12-2-57	PREPARED AND RECOMMENDED:
IN CHARGE: H.E.C.	NAME: H. H. McFARLAND
DESIGNED BY: L.B.P.	DATE: 12-2-57
DRAWN BY: J.M.	ENGINEER
CHECKED BY: A.S.	
REV. NO. 1	REV. NO. 2
	REV. NO. 3
	REV. NO. 4

71R

As Built
GENERAL PLAN AND SECTIONS
RAMP 'H'



FASCE 58-1

FASCE 58-1

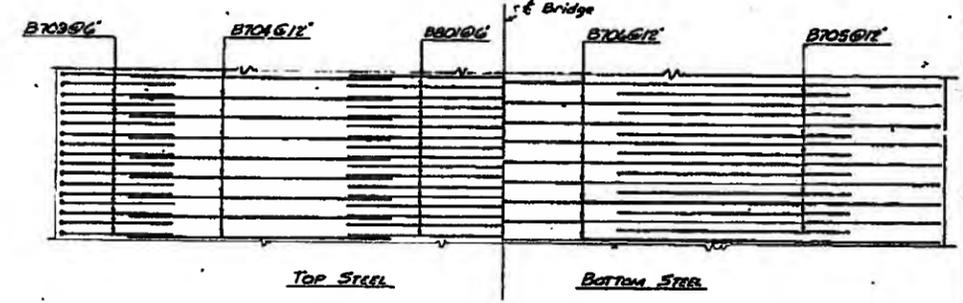
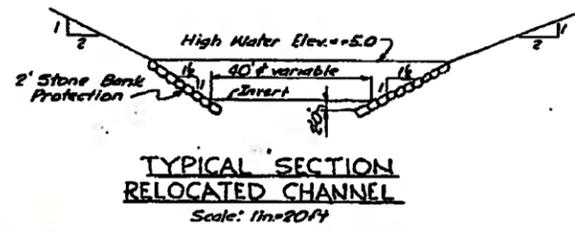
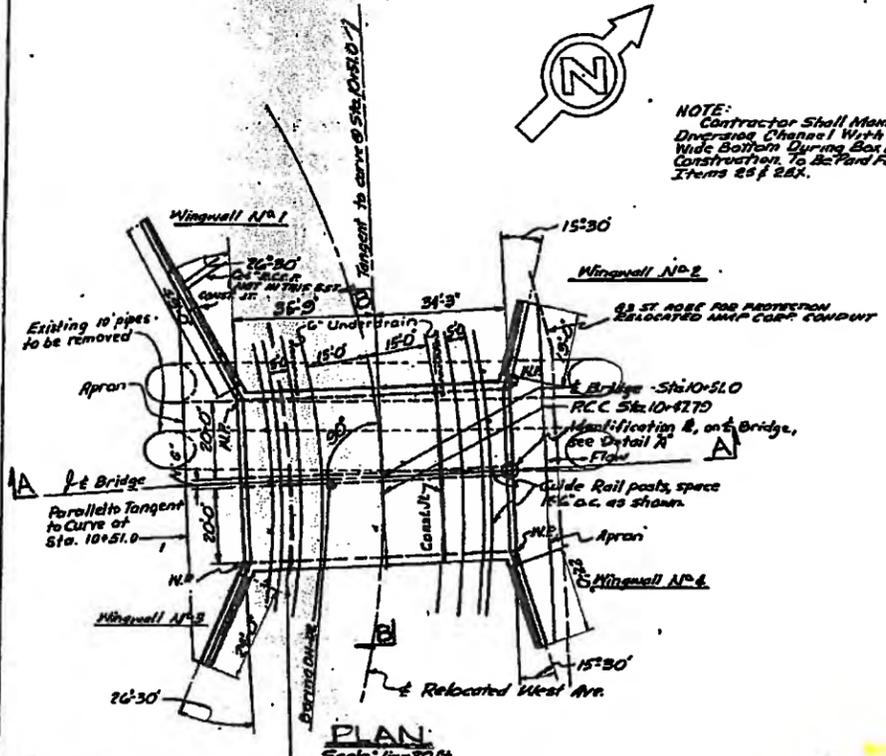
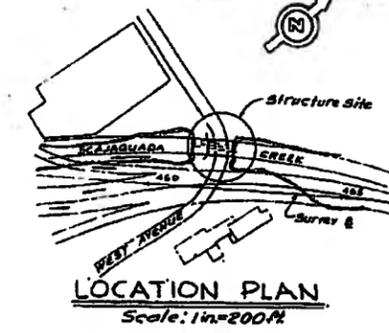
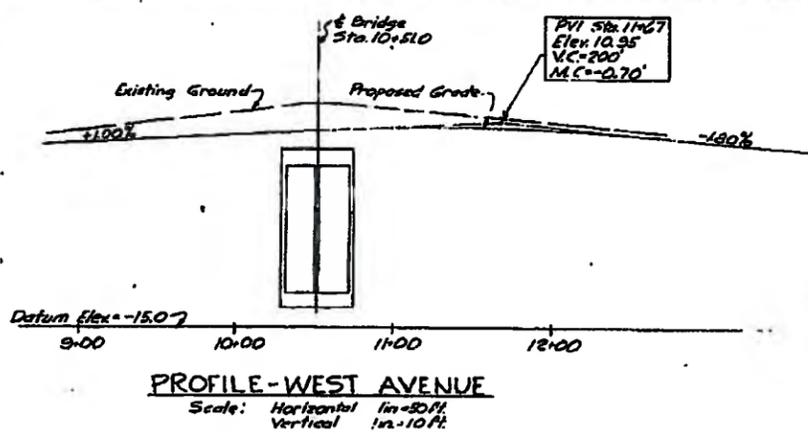
FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	NY	U-18-1087(2)	75	75	147

CITY OF BUFFALO
SCAJADARA CREEK EXPRESSWAY
NIAGARA THRUWAY-DELAWARE AVE.
SECTION 2
WANT ST. INTERCHANGE TO
DELAWARE AVE. INTERCHANGE

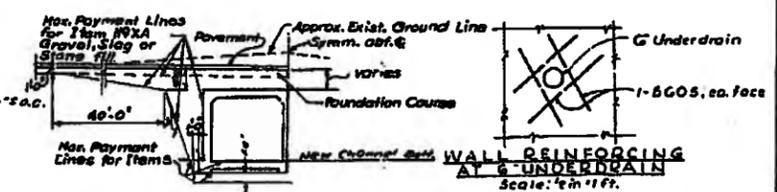
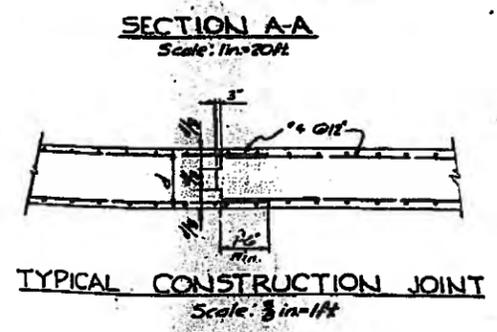
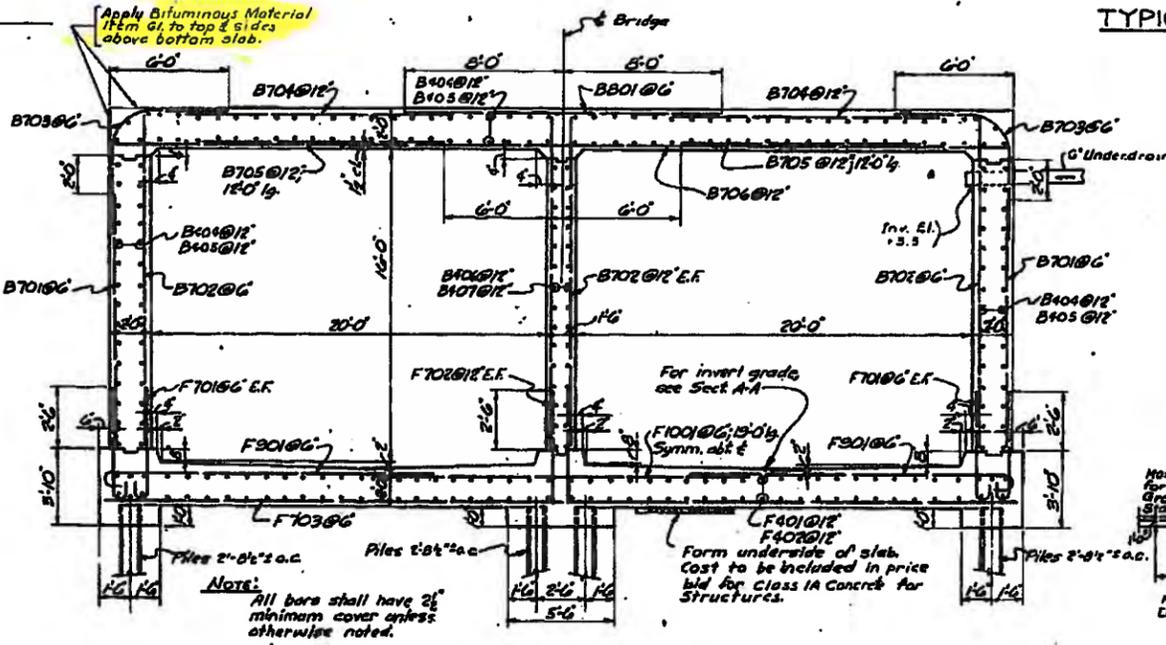
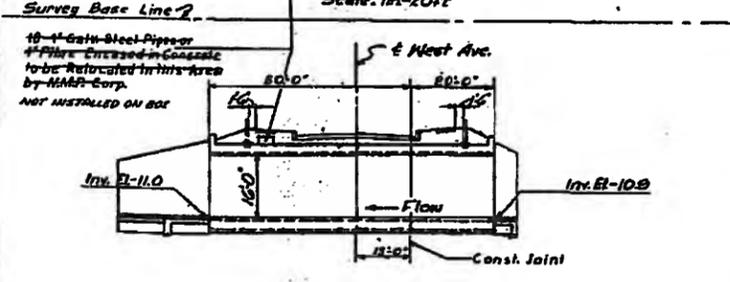
75R



NOTE: Contractor Shall Maintain A Drainside Channel With A Min. 20' Wide Bottom During Box Culvert Construction To Be Paid For Under Items 25 & 26X.

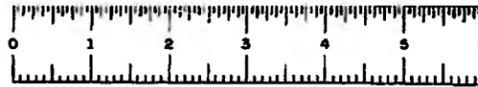


NO	ITEM	UNIT	NEAT	ROUNDED	FINAL
5	Trench, Culvert & Bridge Excav.	C.Y.	1500	1576	3176.75
18-1	Portland Cement, Type 2	8bl.	1929	2025	3954.87
18	Class 1A Concrete for Structures	C.Y.	5185	5215	11400
28	Bar Reinforcement for Structures	Lb.	141688	145935	145935
G1	Bituminous Material	Gal.	335	350	329
82	Cofferdams	S.F.	10,395	11,435	8222.40
845B	Steel Bearing Test Piles	L.F.	304	335	304
85	Steel Bearing Piles 10BP 42	L.F.	11,764	12,340	12,401
85A	Splices for Steel Bearing Piles	Ea.	60	65	52
87	Furnishing Equip. for Driving Piles	L.S.	10%	10%	10%
118XA	Gravel, Slag or Stone Fill	C.Y.	1815	1905	1771.26
25	Unseasoned Excavation	C.Y.	4500	4500	0
26X	Selected Embankment in Place	C.Y.	4500	4500	1680.80
255	Temporary Steel Sheet Piling	S.F.	0	0	2052.0
26	Unseasoned Bank & Channel Excav.	E.E.	0	0	4975.80



As Built
GENERAL PLAN AND SECTIONS
WEST AVE.

DATE	12-2-57	DESIGNED BY	L.B.R.	CHECKED BY	L.E.
IN CHARGE	H.G.C.	RECOMMENDED BY	W.H. DEWELAND	ENGINEER	
REV. NO. 1	REV. NO. 2	REV. NO. 3	REV. NO. 4		



FASCE 58-1

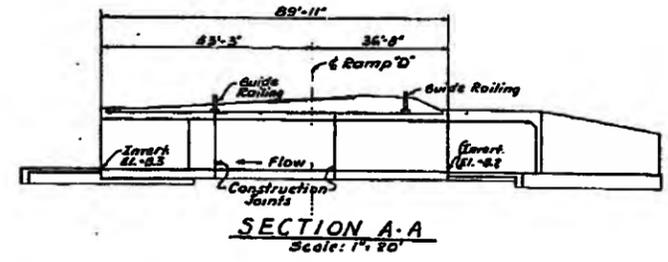
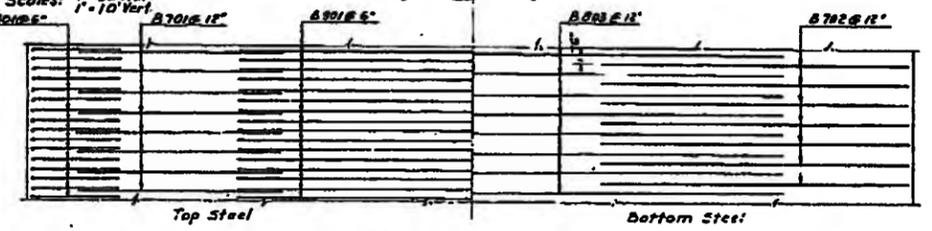
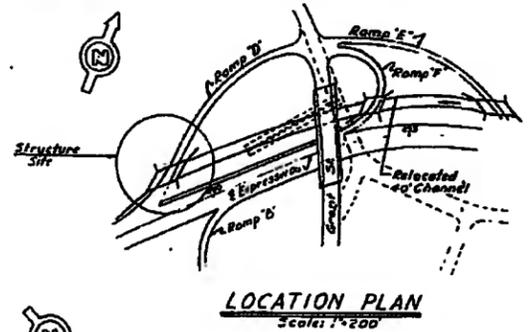
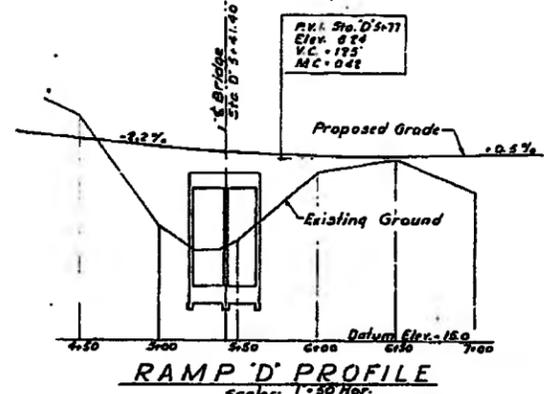
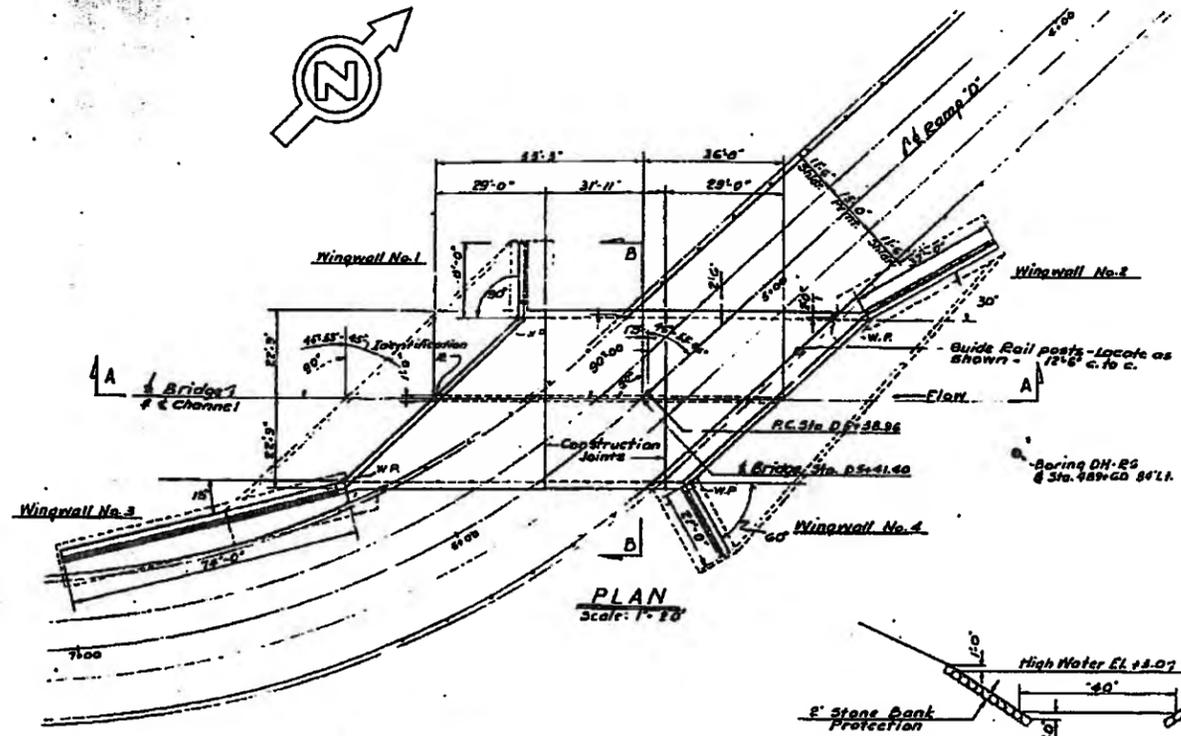
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FASCE 58-1

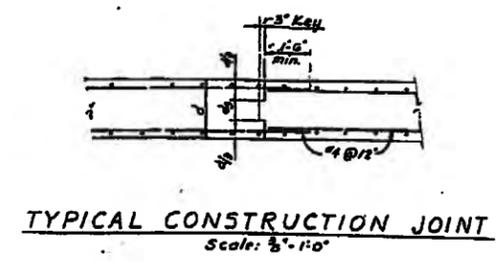
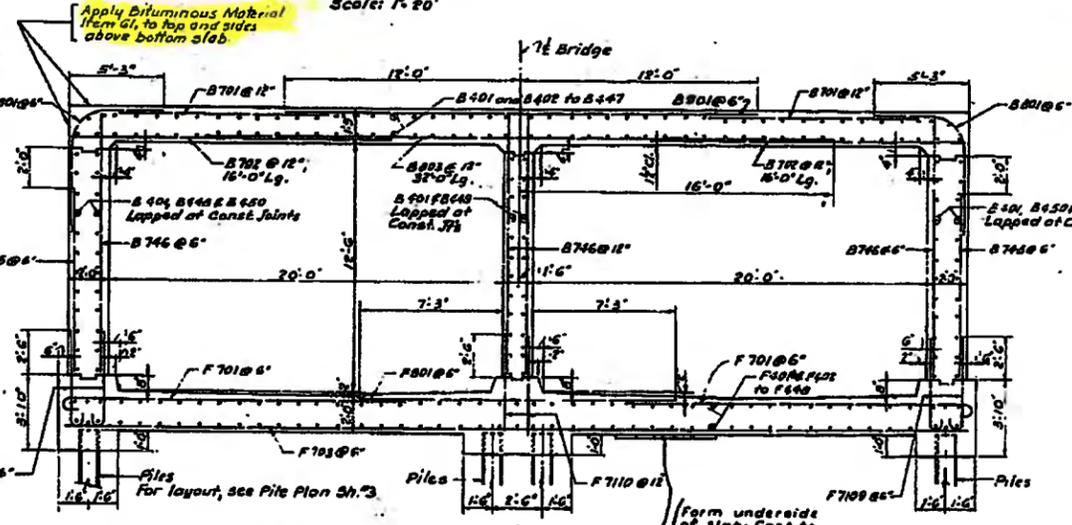
FED. RD. DIV. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	1-106-10872		79	147

CITY OF BUFFALO
SCAJAQUADA CREEK EXPRESSWAY
NIAGARA THRUWAY DELAWARE AVE.
SECTION 2
GRANT ST. INTERCHANGE TO DELAWARE AVE. INTERCHANGE

NOTE
Contractor Shall Maintain A Diversion Channel With A Min. 20' Wide Bottom During Box Culvert Construction. To Be Paid For Under Item 5.24 P&E.



TYPICAL SECTION RELOCATED CHANNEL Scale: 1" = 20'



ESTIMATE OF QUANTITIES

NO.	ITEM	UNIT	NET	ROUNDED	FINAL
8	Trench, Culvert and Bridge Easem.	C.Y.	1270	1335	2968.26
15-2	Portland Cement, Type I	BBL	2308	2300	2306.25
18	Class IA Concrete for Structures	C.Y.	1310	1375	1304.19
20	Bar Reinforcement for Structures	Lb.	163,117	162,000	164,794.08
61	Bituminous Material	Gal.	335	350	330.-
82	Cofferdams	S.F.	6911	7400	7981.20
84-88	Steel Bearing Test Piles	L.F.	300	350	300
85	Steel Bearing Piles 10 SP 4E	L.F.	12,682	13,950	13,100
88A	Splices for Steel Bearing Piles	Ea.	66	75	0
87	Furnishing Equip. for Driving Piles	L.S.	10%	10%	10%
112A	Gravel, Blot or Stone Fill	C.Y.	1650	1725	2,116.53
12	Deposits, Soil of Final Excavation	C.Y.	2000	2000	2,700.00
BER	Selected Embankment in Place	C.Y.	2000	2000	6,539.40

DESIGN SPECIFICATIONS: AASHTO 1953 with modifications as described in New York State Department of Public Works Standard Practices for Design of Bridge Structures, H-29-316, Loading Materials and Fabrication Specifications of New York State Department of Public Works, dated Jan 2, 1957 and current modifications and additions.
Concrete in the Culvert Barrel, Apron Slabs, Wingwalls and Footings shall be Class IA Concrete for Structures, Item 18.
Construction: Backfill shall be deposited on both sides of the Culvert simultaneously to maintain approximately the same elevation on each side at all times.
No construction joints other than those shown on the plan will be permitted without written approval of the Deputy Chief Engineer (Design).
All exposed surfaces of concrete shall be chamfered 1" unless otherwise shown.
The Maximum Design Load per pile is 37 tons.
Identification Plate in accordance with New York State Department of Public Works Standard Practice No. 25-81 will be furnished by the Department of Public Works and shall be installed by the Contractor at location indicated on the plans.
Guide Rail Posts for Beam Type Guide Railings, Item 55DX, not included in structure estimate. See special specifications for measurement and payment.

NOTE: All bars shall have a minimum cover unless otherwise noted.

DATE: 12-2-57	DESIGNED BY: L.B.F.	PREPARED AND RECOMMENDED BY: W.M. FARLAND, ENGINEER
IN CHARGE: H.G.C.	DETAILED BY: J.M.	DATE: 12-2-57
CHECKED BY: L.C.	REV. NO. 1	REV. NO. 2
REV. NO. 1	REV. NO. 3	REV. NO. 4

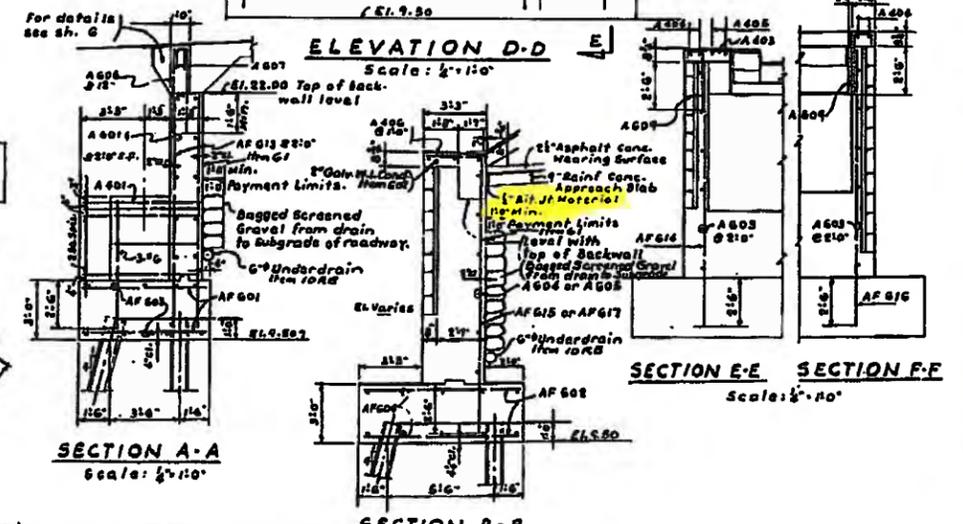
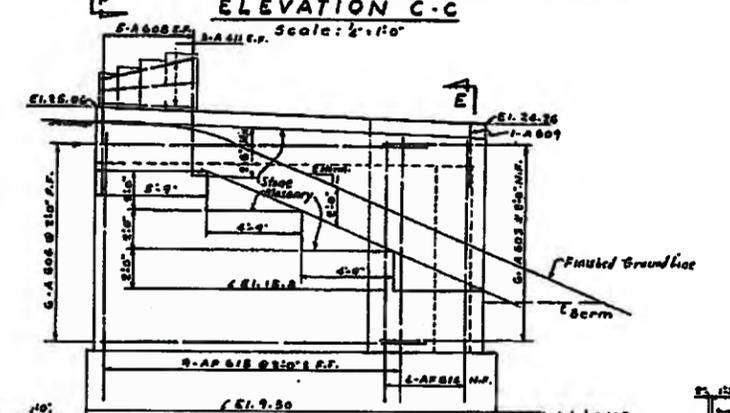
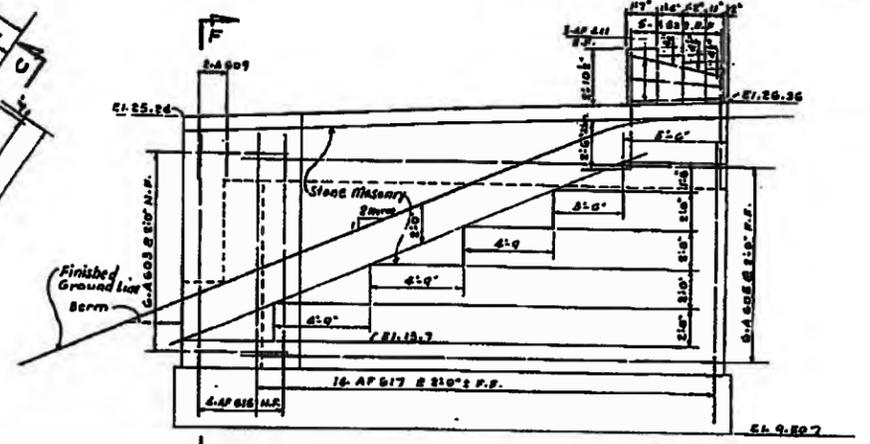
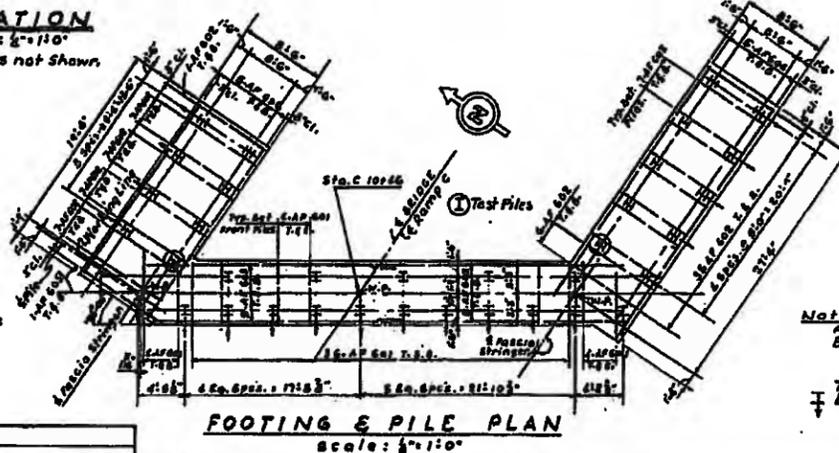
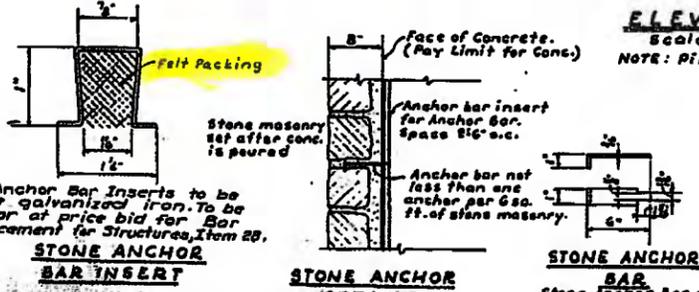
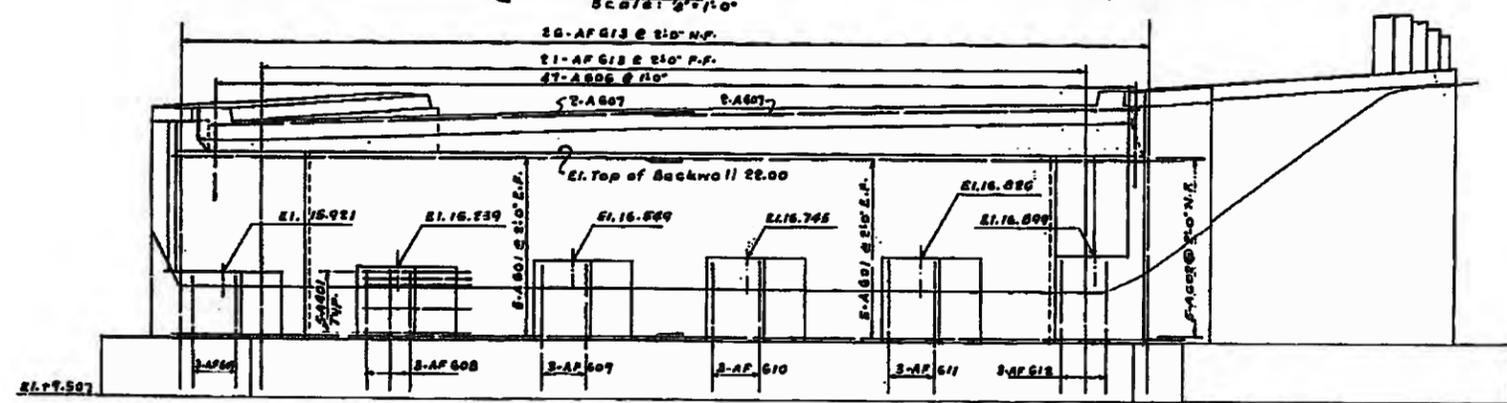
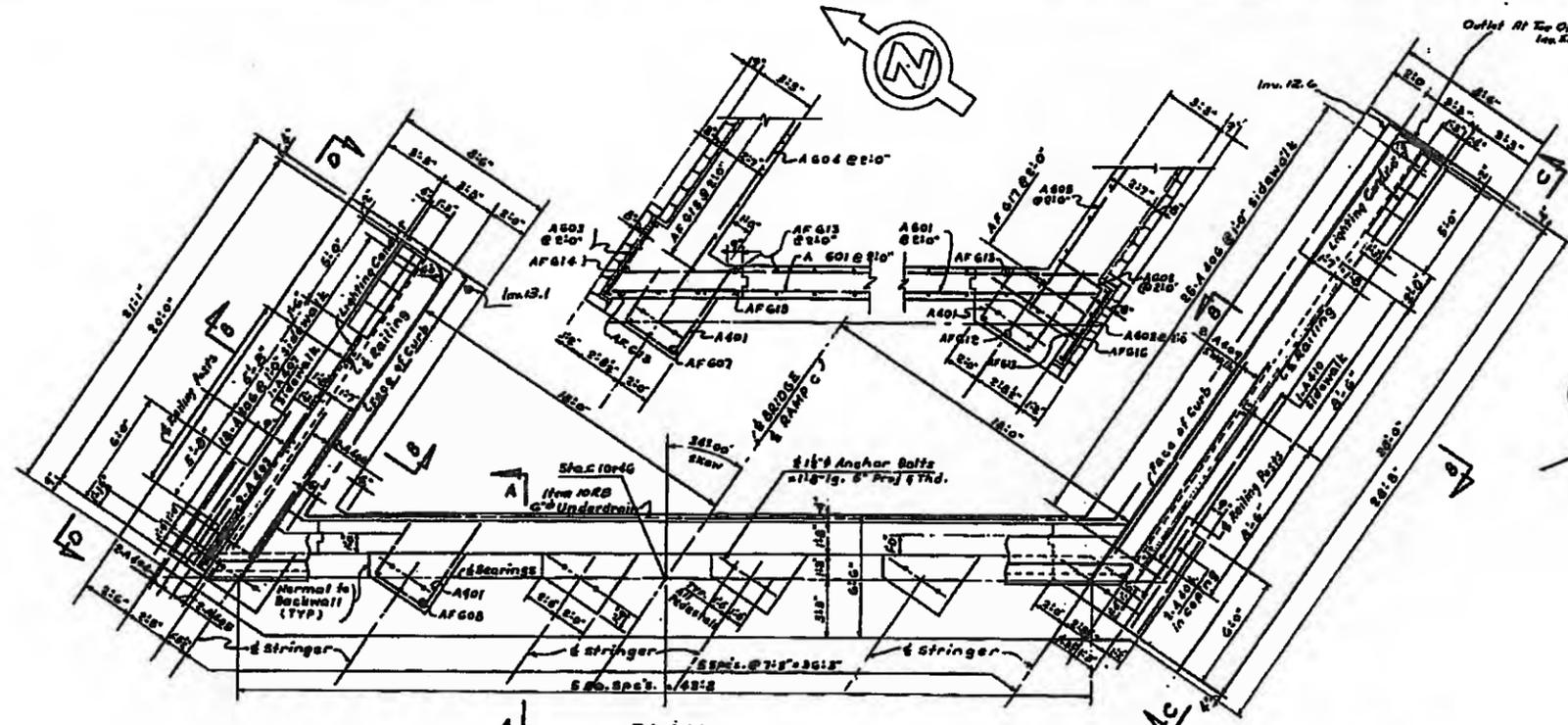
As Built
GENERAL PLAN AND SECTION
RAMP 'D'



FASCE 58-1

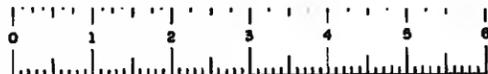
FED. RD. DIV. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	U-UG-687	1957	109	147

CITY OF BUFFALO - SCAJAVARA CREEK EXPRESSWAY
 NIAGARA TRIBUTARY - DELAWARE AVE. INTERCHANGE
 SECTION 2
 GRANT ST. INTERCHANGE TO DELAWARE AVE. INTERCHANGE



Note:
 All Piles 108 P48
 Estimated length of Piles - 37' Vert. Piles
 36' Batter Piles
 47' Test Piles
 Total number Piles - 36 Piles
 Batter Piles 114

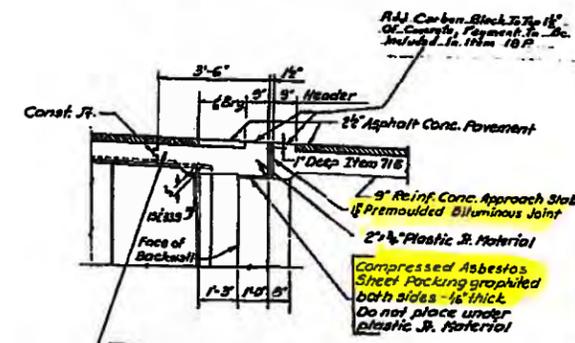
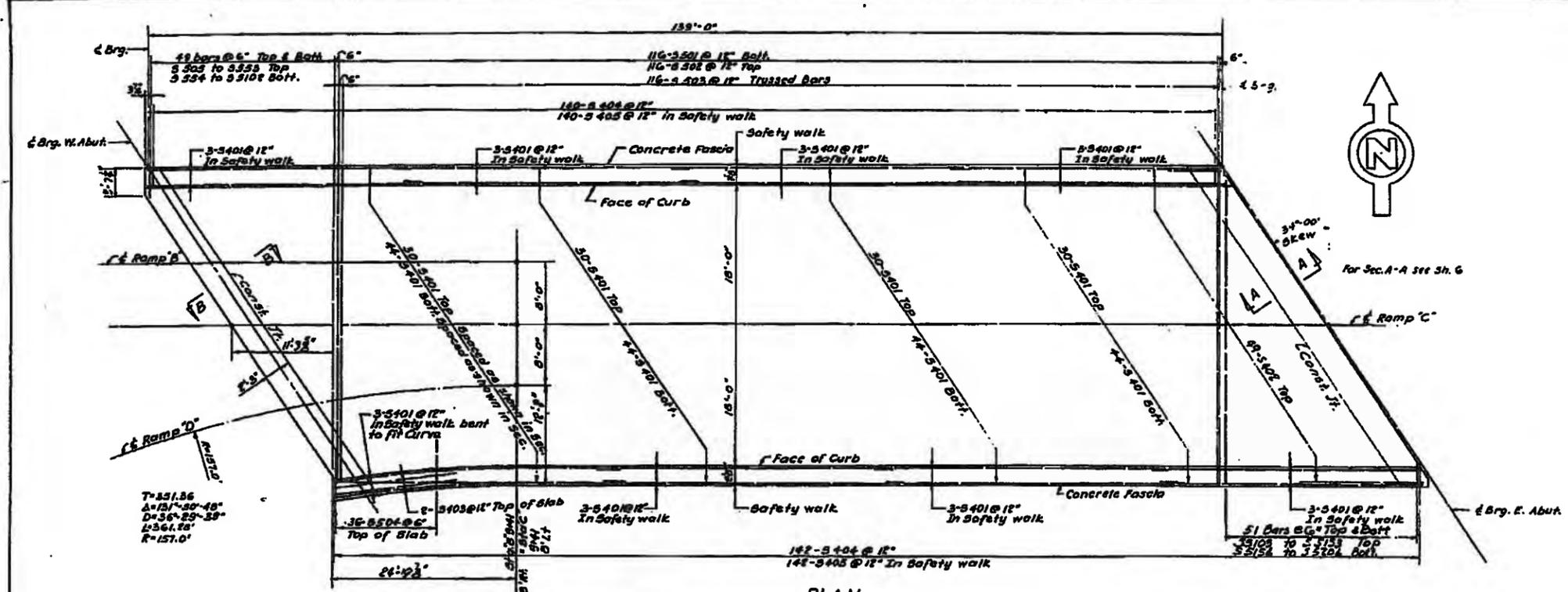
DATE: 12-2-57	DESIGNED BY: L.K.	PREPARED AND RECOMMENDED BY: W.M. McFARLAND, ENGINEER
IN CHARGE: H.G.C.	DRAWN BY: L.K.	DATE: 12-3-57
CHECKED BY: L.K.	REV. No. 2	REV. No. 3
REV. No. 1	REV. No. 4	



FASCE 58-1

FED. RD. DIV. NO.	STATE	FEDERAL PROJECT NO.	AID FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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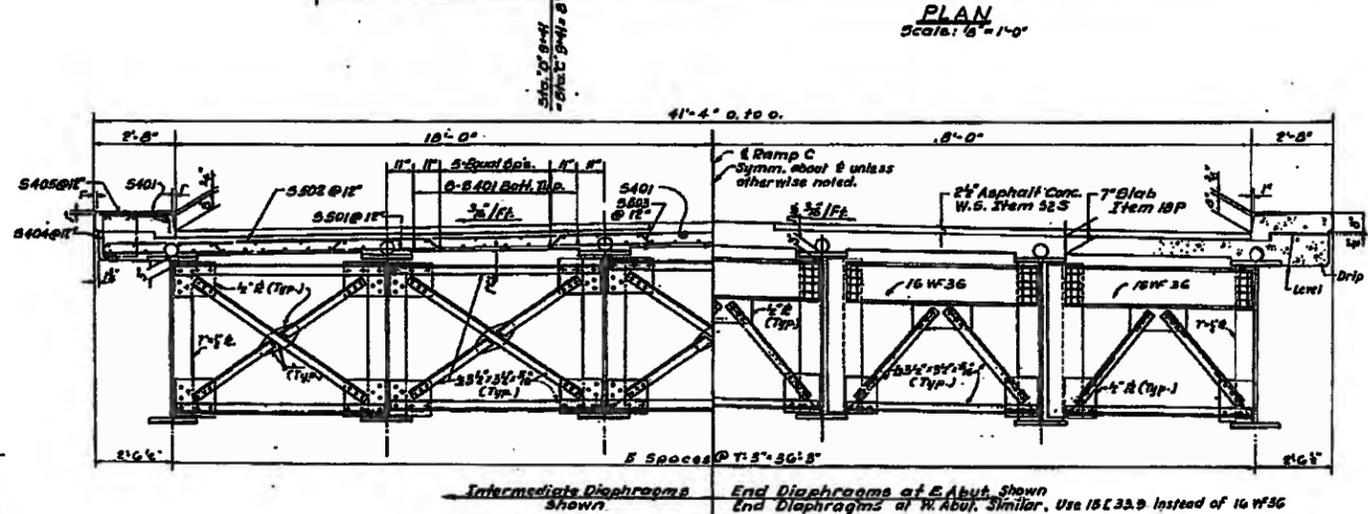
CITY OF BUFFALO
SCAJAQUADA CREEK EXPRESSWAY
NIAGARA THRUWAY-DELAWARE AVE.
SECTION 2
GRANT ST. INTERCHANGE TO
DELAWARE AVE. INTERCHANGE



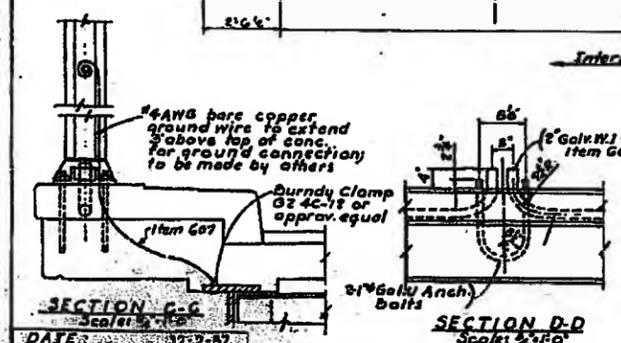
This portion of Slab to be poured after adjacent section has been placed and final determination of roadway grade has been established.

Note: All horizontal dimensions are normal to ϵ Brg.

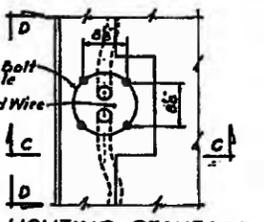
SECTION B-B
Scale: 1/2" = 1'-0"



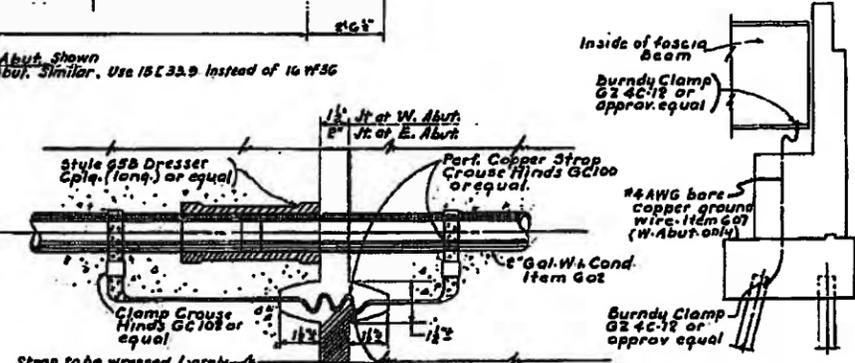
TYPICAL CROSS SECTION
Scale: 1/2" = 1'-0"



DATE: 12-2-57	IN CHARGE: H.G.C.	DESIGNED BY: L.K.	PREPARED AND RECOMMENDED: W.N. REPARLAND, E.L.T.C. NO. 20145 DATE 12-31-57
CHECKED BY: J.V.	REV. NO. 1	REV. NO. 2	REV. NO. 3



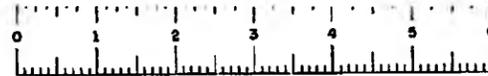
LIGHTING STANDARD BASE PLAN
Scale: 1/2" = 1'-0"



CONDUIT DETAIL AT DECK JOINTS
Scale: 3/4" = 1'-0"

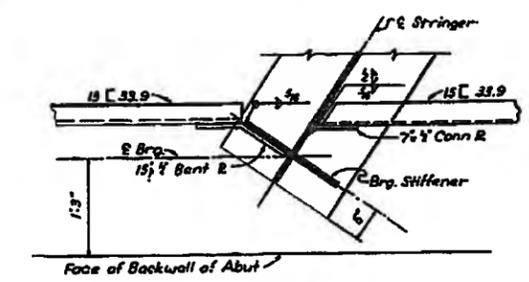
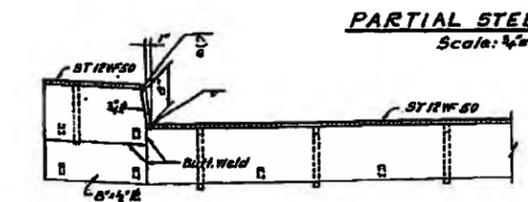
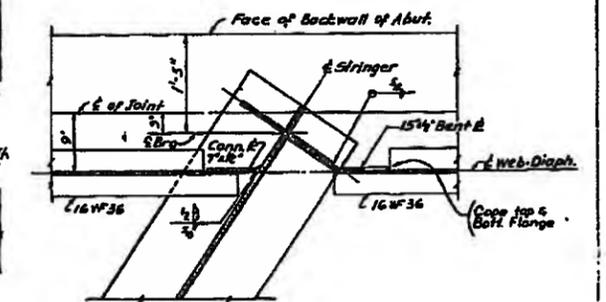
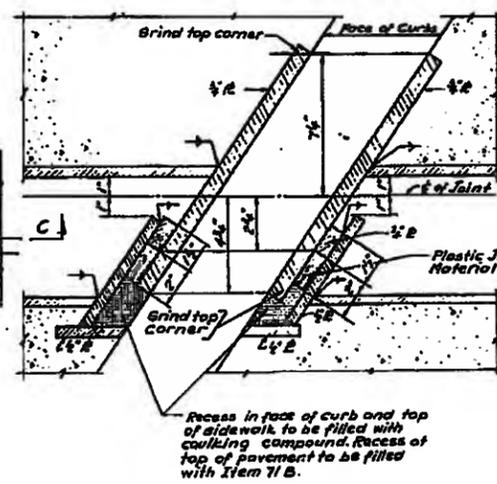
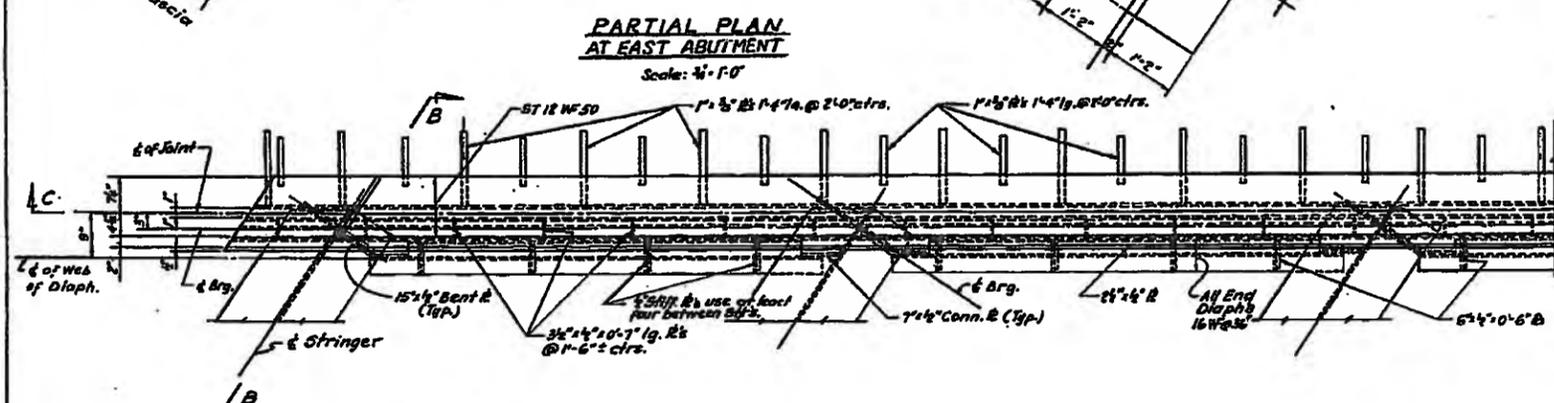
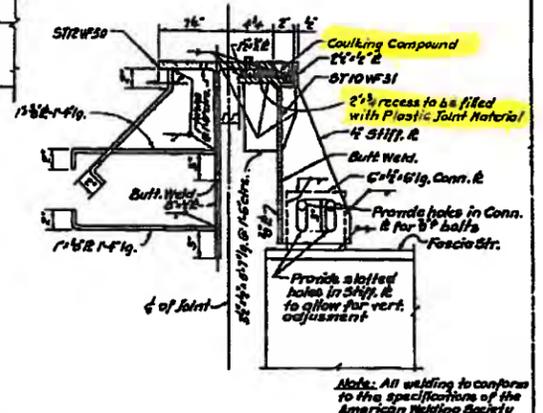
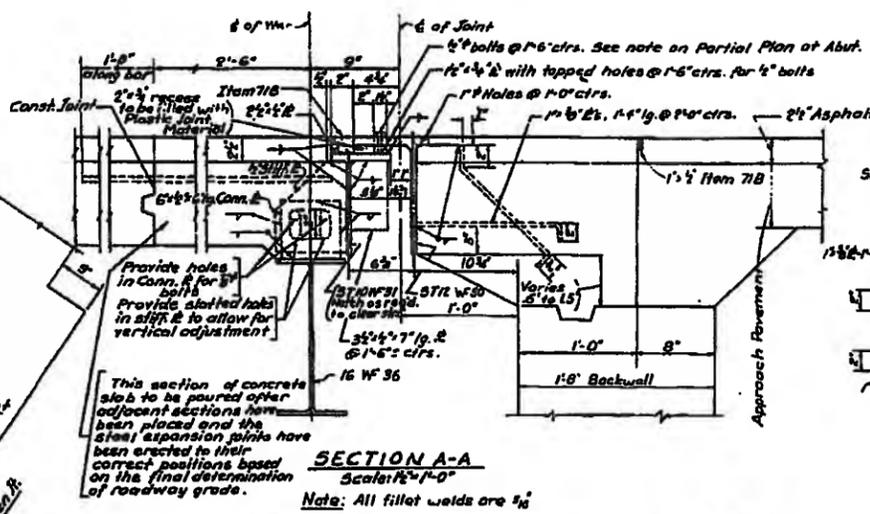
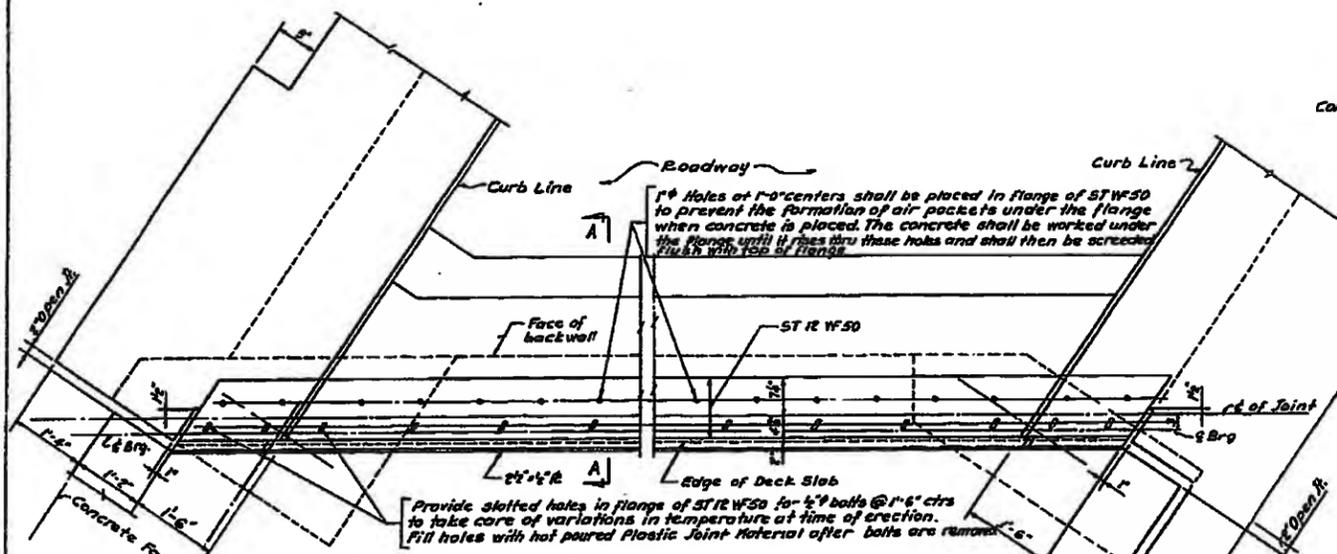
GENERAL NOTES:

- Design Specifications - A.A.S.H.O. 1953 with modifications as described in New York State Department of Public Works Standard Practices for Design of Bridge Structures, H 20-316-44 Loading, 35,000 lbs. axle load for Slab Design.
- Materials and Fabrication - Specifications of New York State Department of Public Works dated January 2, 1957 and current modifications and additions.
- Field connections shall be made with 2" dia. High Strength Bolts. All nuts to be effectively locked after final tightening. Bolts shall meet requirements of A.S.T.M. A325-S57.
- Steel base metal to be welded shall conform to the requirements of the Specifications for Structural Steel for Welding A.S.T.M. designation A 37B. All Structural Steel not to be welded, including bolts and rivets, shall conform to A.S.T.M. designation A7.
- All Cement shall be Portland Cement Type 2.
- All Piles shall be Steel H Bearing Piles driven to rock. The assumed pile load does not exceed 37 tons. Steel H Piles will be paid for under Item 25.
- Identification Plate in accordance with New York State Department of Public Works Standard 35-41, will be furnished by the Department of Public Works and shall be installed by the Contractor at the location indicated on the plans.
- Concrete Pads under steel bearing plates shall be poured 1/4" higher than elevation indicated on the plans and bush hammer or otherwise finished to exact elevations on the plans.
- All exposed edges of Concrete shall be chamfered 1" unless otherwise noted.
- All Concrete in structural slab, sidewalks, mall and approach slab shall be Item 18. At least 18 P. At least 18 P. concrete shall be Item 18.
- Deck Beams - 16" x 16" x 1/2" thick shall be used under each bearing plate.

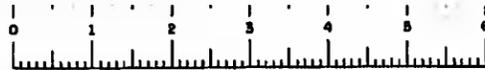


FED. RD. DIST.	STATE	FEDERAL PROJECT NO.	AID YEAR	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	U-UG-1087(a)			113	147

CITY OF BUFFALO
SCAJAGOUDA CREEK EXPRESSWAY
NIAGARA THRUWAY - DELAWARE AVE.
SECTION 2
GRANT ST. INTERCHANGE TO
DELAWARE AVE. INTERCHANGE



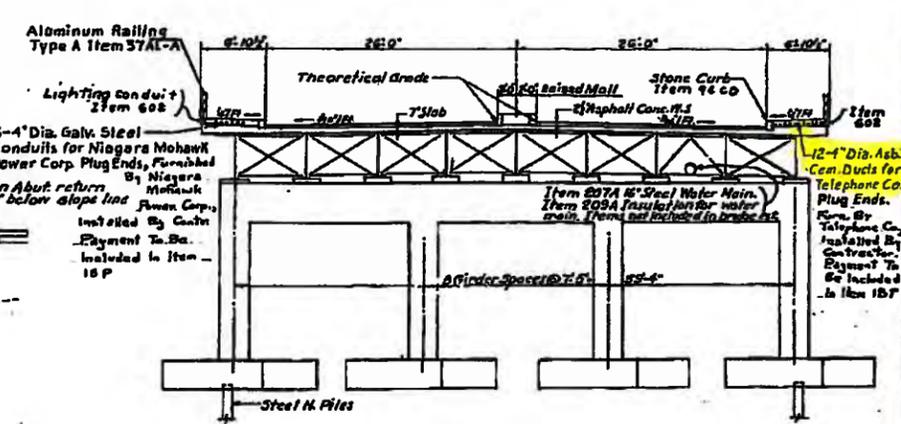
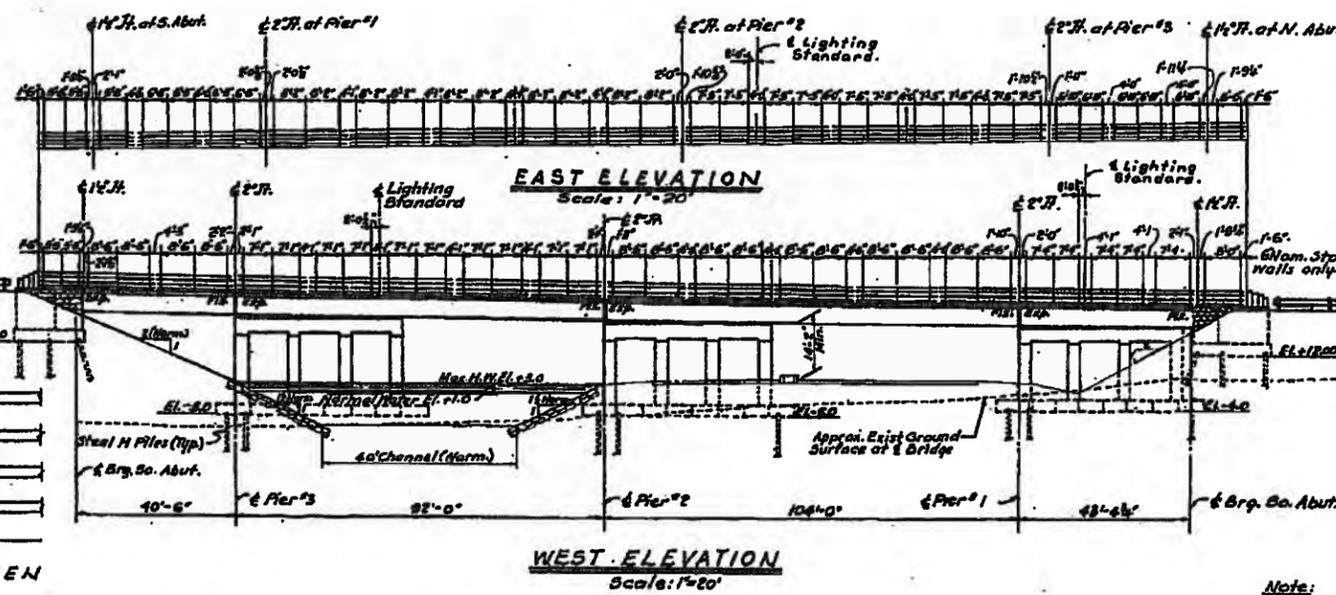
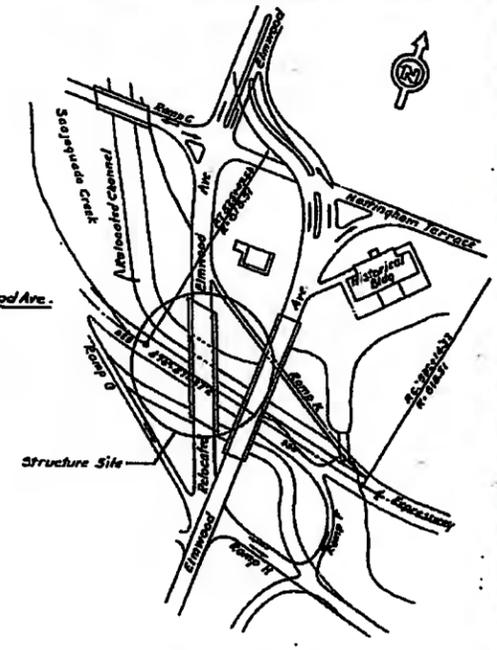
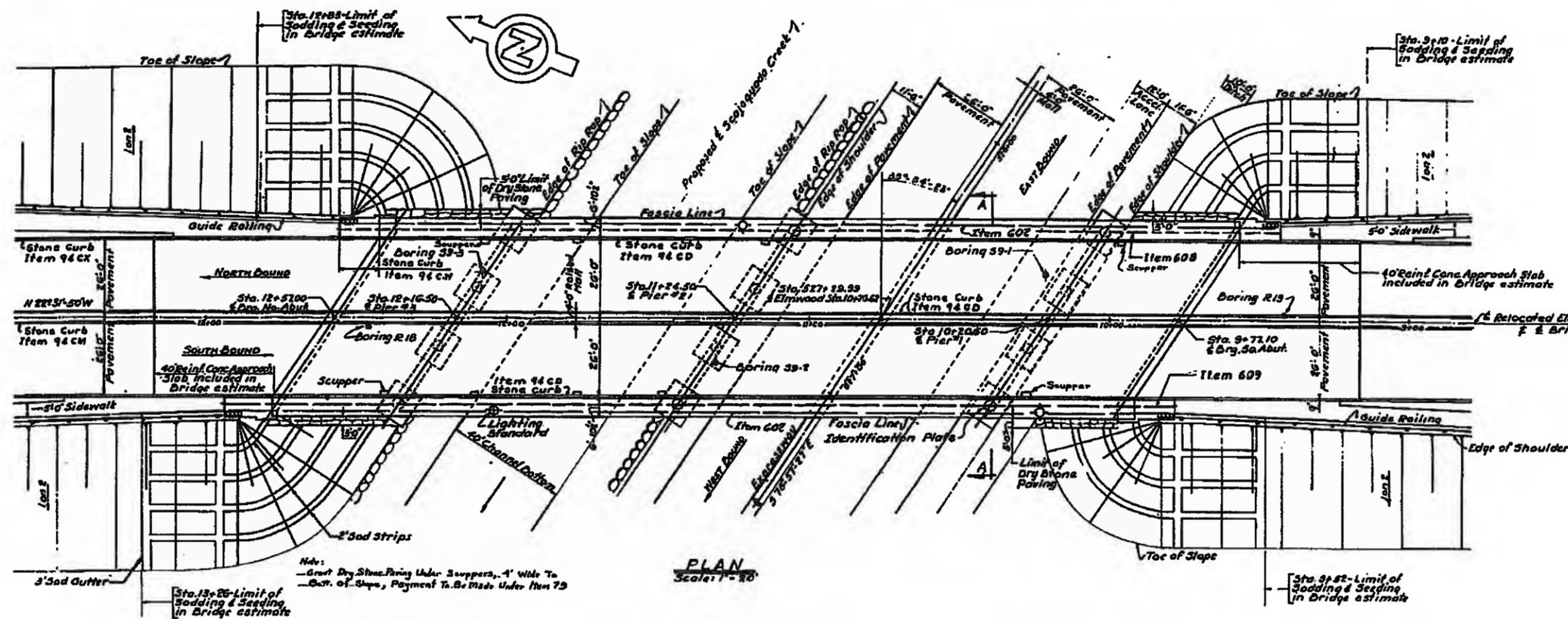
DATE: 12-2-57	INCHARGE: H.G.C.	DESIGNED BY: L.S.G.	PREPARED AND RECOMMENDED BY: W.M. FARLAND	DATE: 12-31-57
Detailed by: L.K.	Checked by: J.H.	REV. NO. 1	REV. NO. 2	REV. NO. 3
				REV. NO. 4



FASCE 58-1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	4-UG-1087a		116	147

CITY OF BUFFALO
 NIAGARA CREEK EXPRESSWAY
 NIAGARA THRUWAY - DELAWARE AVE.
 SECTION 2
 GRANT ST. INTERCHANGE TO
 DELAWARE AVE. INTERCHANGE



OPEN JOINT BETWEEN RAILING PANELS
 Scale: 1/2"=1'-0"

DATE: 12-2-57	IN CHARGE: W.B.C.	PREPARED AND RECOMMENDED: W.B.C.
DESIGNED BY: W.B.C.	CHECKED BY: L.V.	DATE: 12-31-57
REV. NO. 1	REV. NO. 2	REV. NO. 3
		REV. NO. 4

Note: For Railing Post Details, see Sh. No. 9.
 For Details of Lighting Standard Anchorages, see Sheet No. 2 of Lighting Standard Details.

LIST OF DRAWINGS

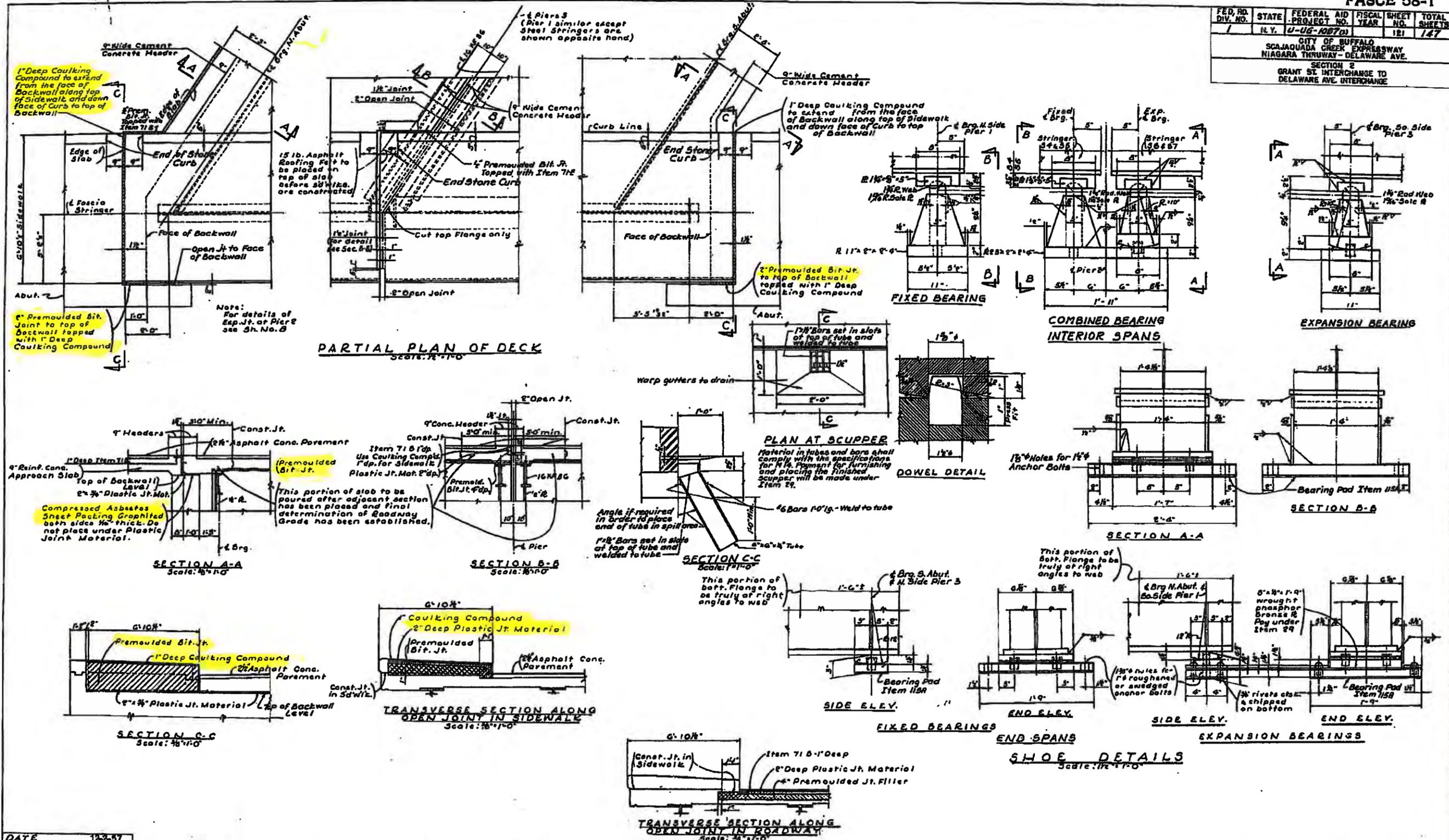
General Plan and Section	Sh. 1
Sections and Details	Sh. 2
Abutments	Sh. 3
Piers	Sh. 4
Framing Plan and Details	Sh. 5
Superstructure Details	Sh. 6
Deck Plan and Section	Sh. 7
Steel Expansion Joint	Sh. 8
Railing Post Details	Sh. 9
Bar List and Details	Sh. 10



FASCE 58-1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	U-UG-1070		121	147

CITY OF BUFFALO
SCAJAQUADA CREEK EXPRESSWAY
NIAGARA THRUWAY - DELAWARE AVE.
SECTION 2
GRANT ST. INTERCHANGE TO DELAWARE AVE. INTERCHANGE



DATE	12-3-57
IN CHARGE:	H.G.C.
DESIGNED BY:	EDM.
PREPARED AND RECOMMENDED BY:	L.K.
CHECKED BY:	L.K.
REV. No. 1	REV. No. 2
REV. No. 3	REV. No. 4

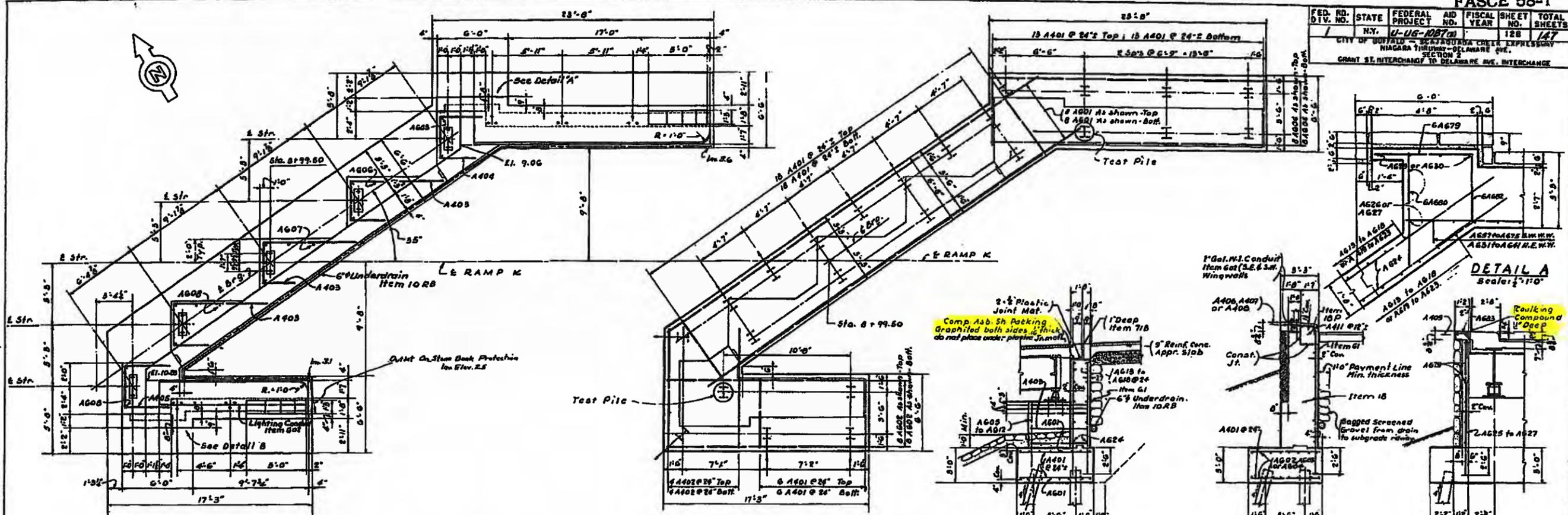
DATE 12-3-57
M.H.S. FARLAND ENGINEERS



FASCE 58-1

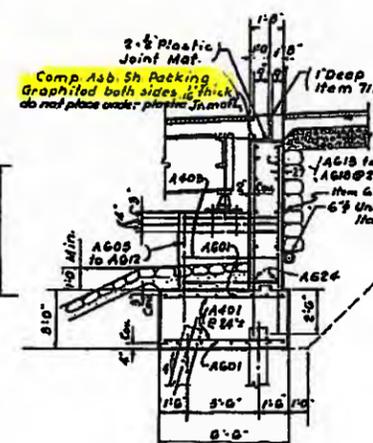
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1	N.Y.	11-UG-287(1)	1957	128	147

CITY OF BUFFALO - BUFFALO DELAWARE CREEK EXPRESSWAY
 NIAGARA THROUGH-DELAWARE AVE.
 SECTION 2
 GRANT ST. INTERCHANGE TO DELAWARE AVE. INTERCHANGE

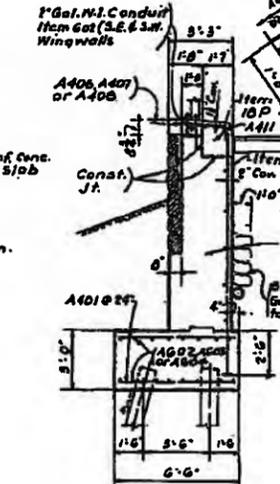


PLAN E. ABUT.
Scale: 1/4" = 1'-0"

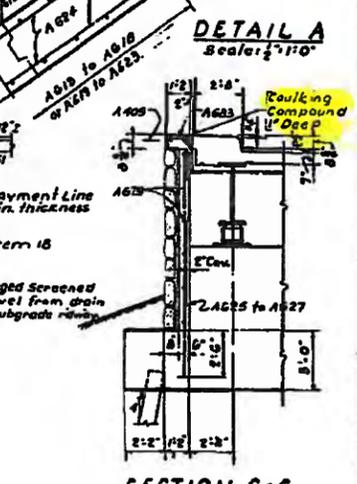
FOOTING PLAN E. ABUT.
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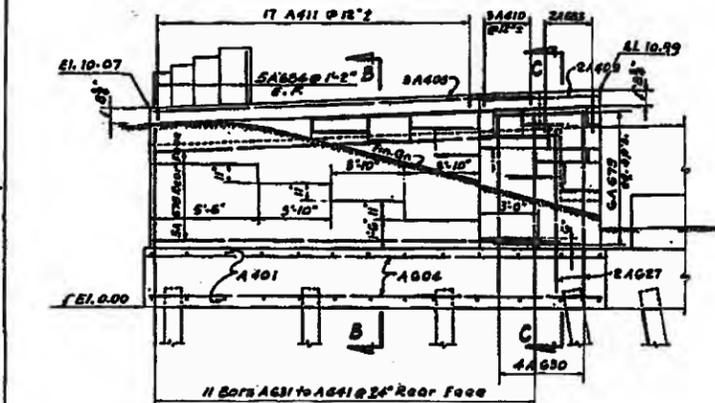
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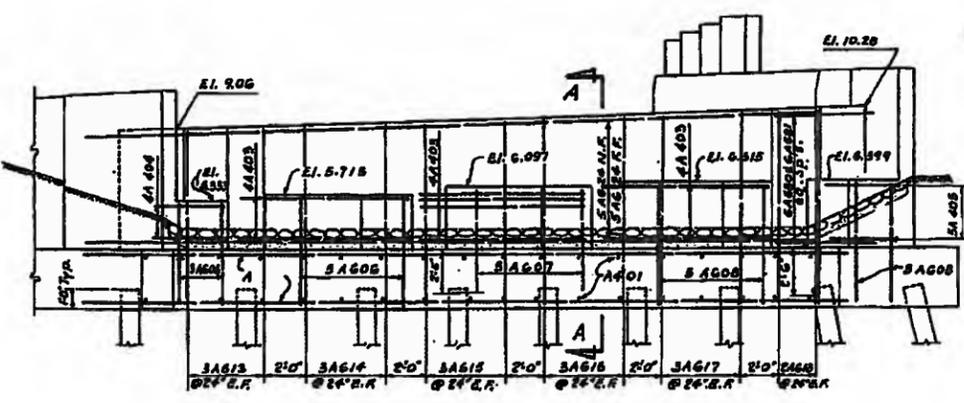
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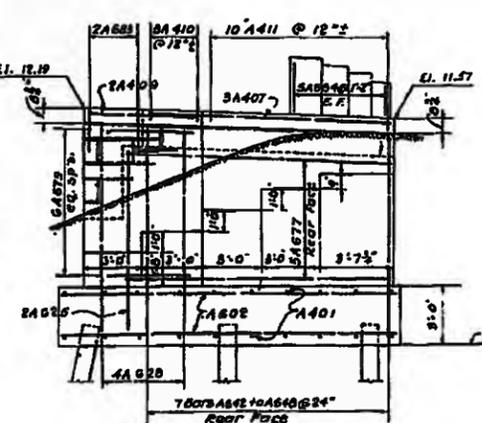
SECTION C-C
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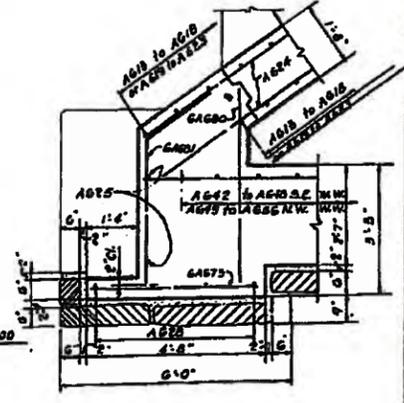
N. E. WINGWALL
Scale: 1/4" = 1'-0"



ELEVATION E. ABUT.
Scale: 1/4" = 1'-0"



S. E. WINGWALL
Scale: 1/4" = 1'-0"

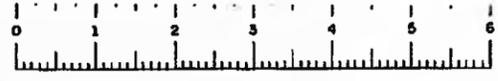


DETAIL B
Scale: 1/4" = 1'-0"

DATE: 12-2-57	IN CHARGE: H.G.C.	DESIGNED BY: L.W.	PREPARED AND RECOMMENDED BY: W.N. McFARLAND, ENGINEER
Detailed by: L.W.	Checked by: J.M.	REV. No. 1	REV. No. 2
		REV. No. 3	REV. No. 4

Note:
 Estimated Pile Length;
 Vertical Piles - 49'
 Battered Piles - 51'
 Test Piles - 54'

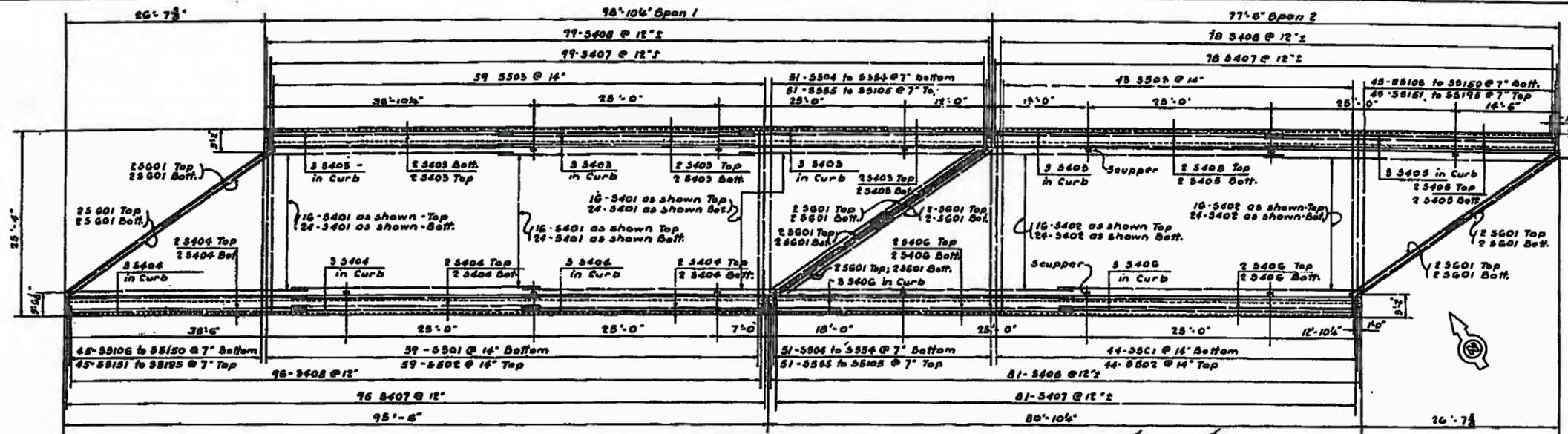
For General Notes,
 See Sheet No. 2



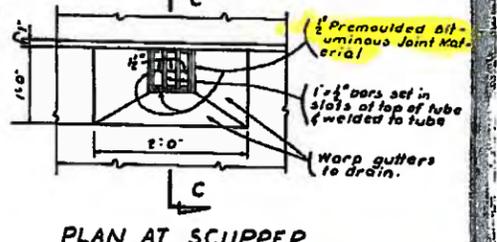
FASCE 58-1

FED. RD. DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	U-16-1087(a)		131	147

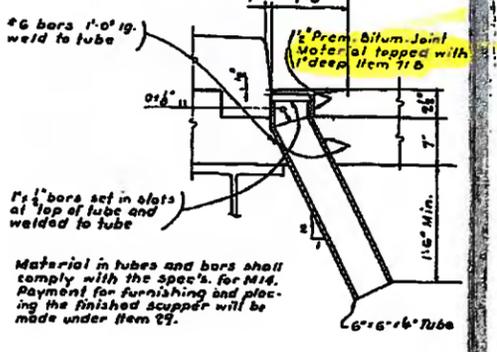
CITY OF BUFFALO
SCAJAQUDA CREEK EXPRESSWAY
NIAGARA THRUWAY - DELAWARE AVE.
SECTION 2
GRANT ST. INTERCHANGE TO DELAWARE AVE INTERCHANGE



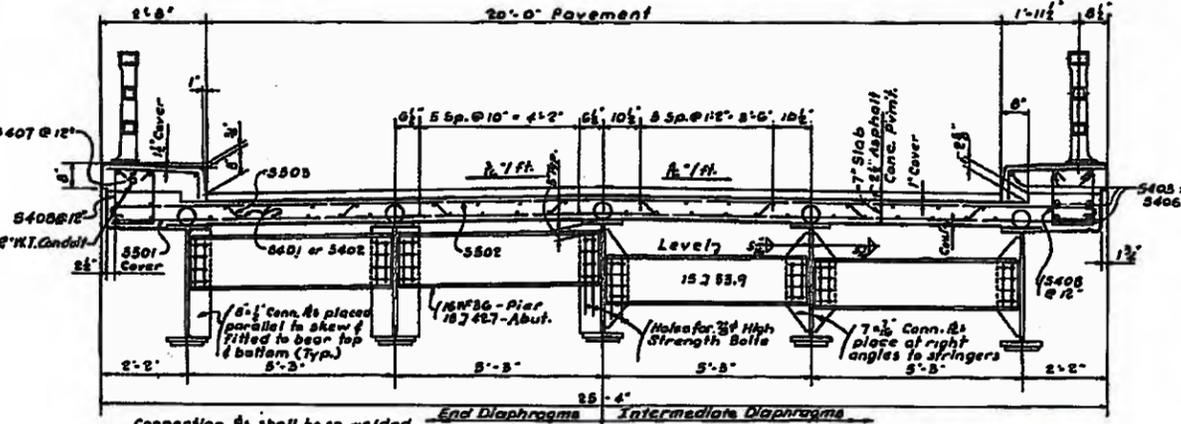
SLAB PLAN
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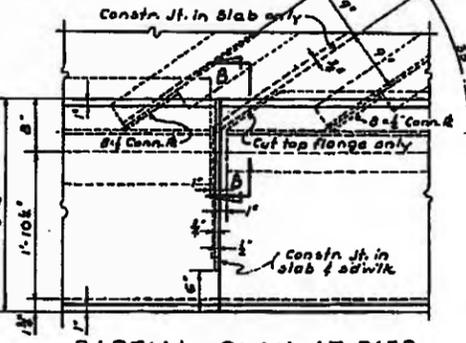
PLAN AT SCUPPER
Scale: 1/2" = 1'-0"



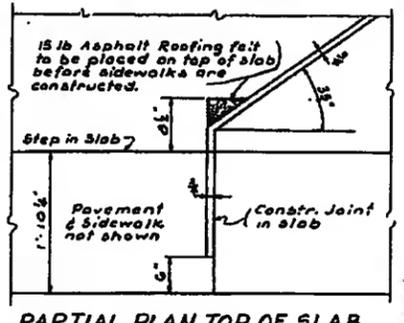
SECTION C-C
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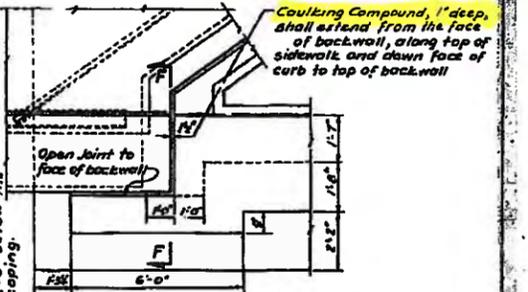
TYPICAL CROSS SECTION
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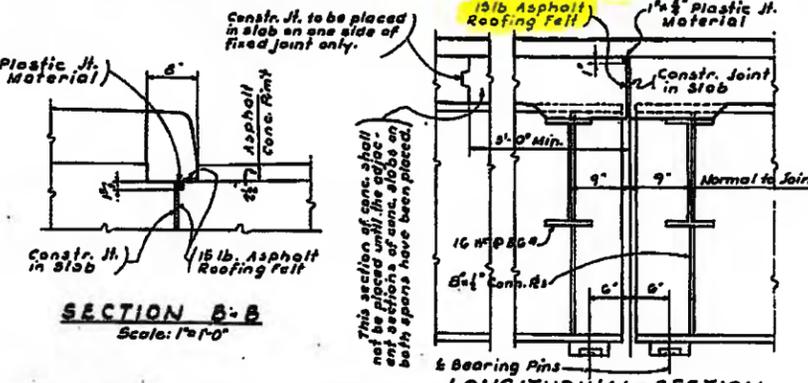
PARTIAL PLAN AT PIER
Scale: 1/2" = 1'-0"



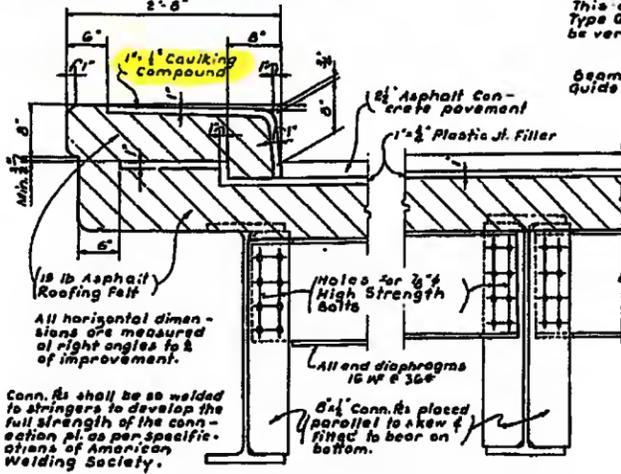
PARTIAL PLAN TOP OF SLAB AT PIER
Scale: 1/2" = 1'-0"



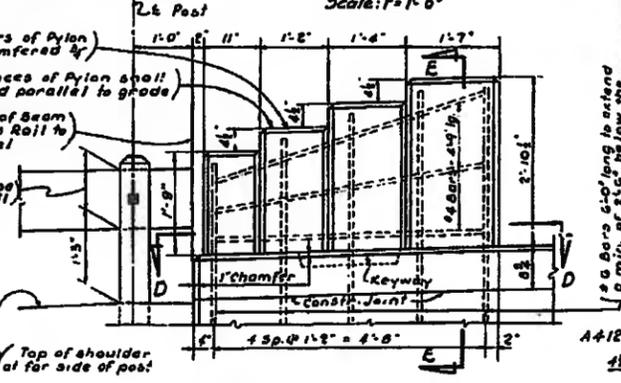
PARTIAL PLAN AT ABUTMENT
Scale: 1/2" = 1'-0"



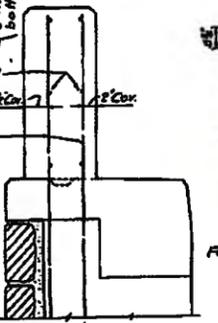
SECTION B-B
Scale: 1/2" = 1'-0"



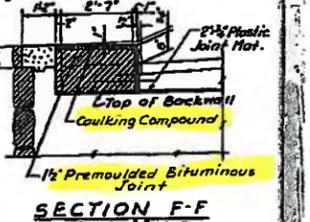
TRANSVERSE SECTION ALONG CONSTRUCTION JOINT AT PIER
Scale: 1/2" = 1'-0"



ELEVATION OF PYLON



SECTION E-E



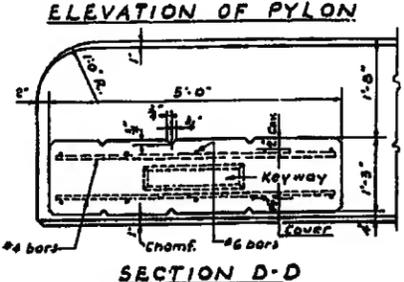
SECTION F-F
Scale: 1/2" = 1'-0"

DATE: 12-2-57
IN CHARGE: H.G.C.
DESIGNED BY: L.B.R.
CHECKED BY: L.S.
REV. No. 1

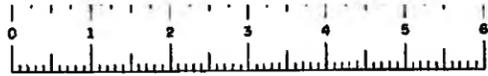
PREPARED AND RECOMMENDED BY:
W.H. McFARLAND, ENGINEER
REV. No. 2

DATE: 12-31-57
PE LIC. No. 20143
REV. No. 3

REV. No. 4



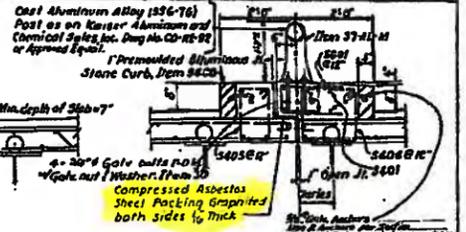
SECTION D-D



FASCE 58-1

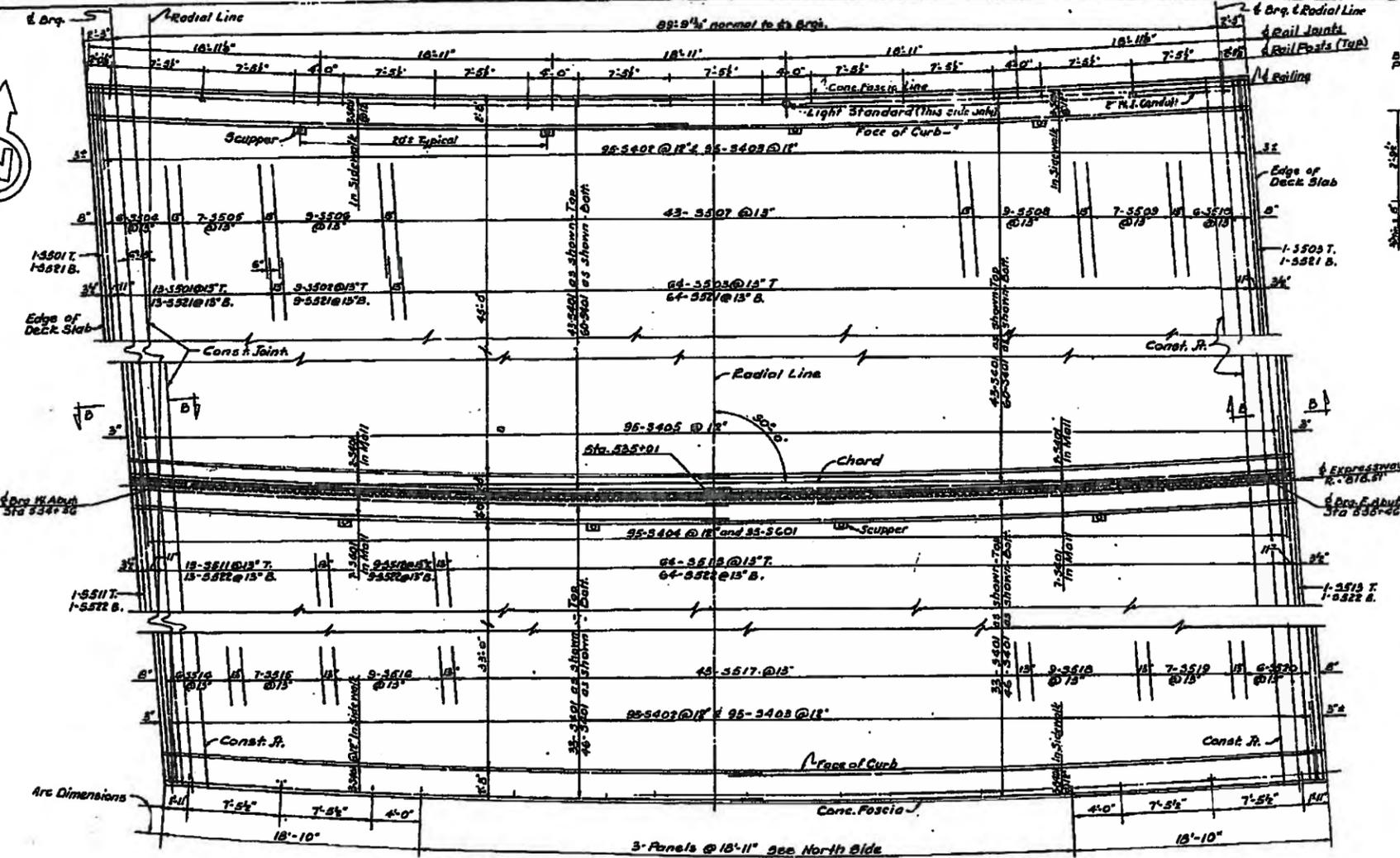
FED. PROJ. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	U-16-1081(a)		138	147

CITY OF BUFFALO
SCAJAQUDA CREEK EXPRESSWAY
NIAGARA THRUWAY- DELAWARE AVE.
SECTION 2
GRANT ST. INTERCHANGE TO
DELAWARE AVE. INTERCHANGE

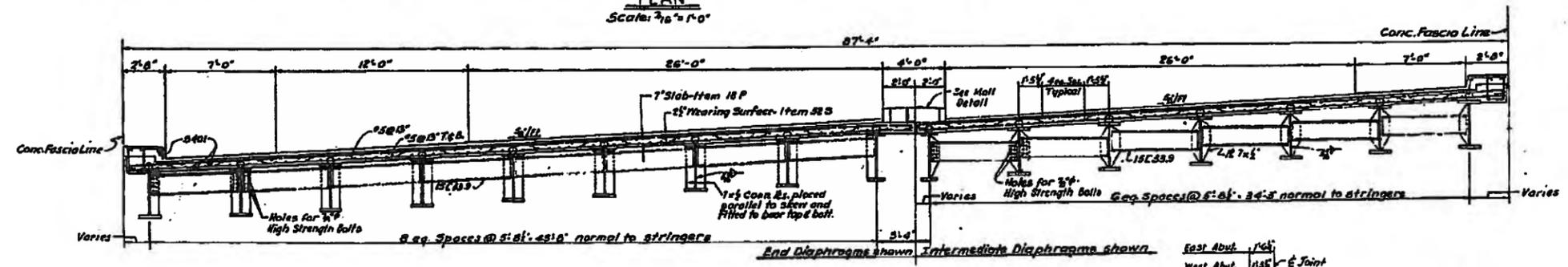


SAFETY WALL DETAIL
Scale: 1/2" = 1'-0"

MALL DETAIL
Scale: 1/2" = 1'-0"

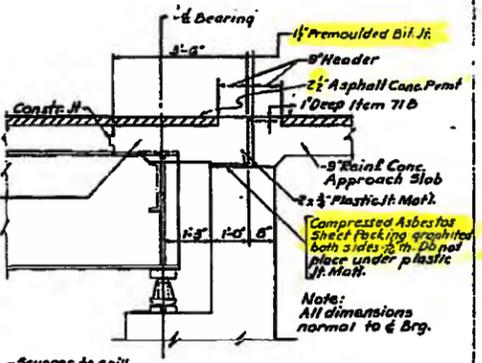


PLAN
Scale: 3/8" = 1'-0"



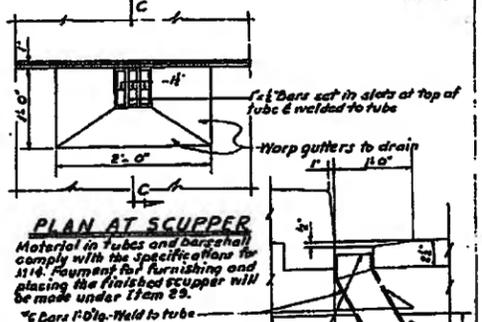
CROSS SECTION
Scale: 3/4" = 1'-0"

This portion of slab to be poured after adjacent section has been placed & final determination of road grade has been established.



SECTION B-B
Scale: 1/2" = 1'-0"

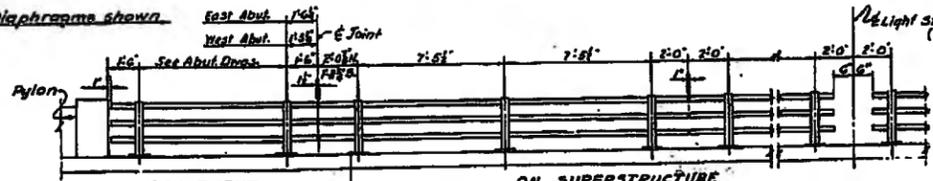
DETAIL OF SPILL AREA FOR SCUPPERS
Scale: 1/2" = 1'-0"



PLAN AT SCUPPER

Material in tubes and bars shall comply with the specifications for 314. Formwork for furnishing and placing the finished scupper will be made under Item 29.

SECTION C-C
Scale: 1" = 1'-0"

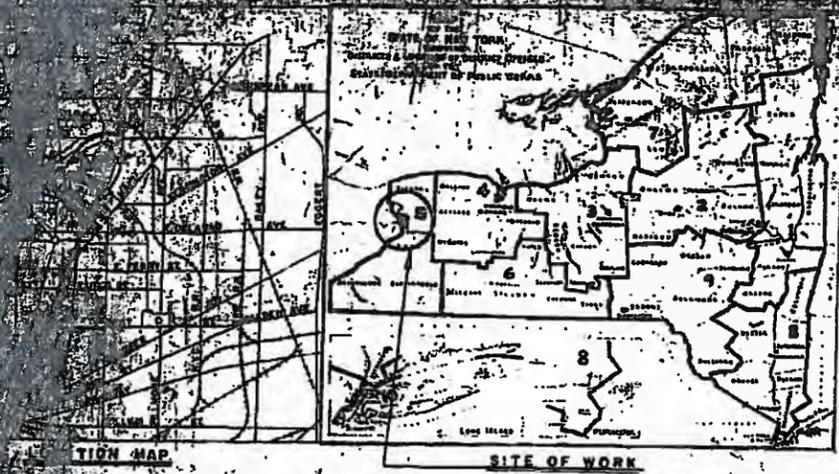


TYPICAL RAILING DETAILS

DECK PLAN AND SECTIONS
DELAWARE PARK LAKE
SHEET 5 OF 7

DATE:	12-2-57	PREPARED AND RECOMMENDED BY: W.H. McFARLAND ENGINEERS	DATE: 12-2-57
IN CHARGE:	H.G.C.		
DESIGNED BY:	J.P.	W.H. McFARLAND ENGINEER	REV. NO. 2
DETAILED BY:	J.P.		
CHECKED BY:	L.K.	REV. NO. 3	REV. NO. 4

SCE-59-01



STATE OF NEW YORK
DEPARTMENT OF PUBLIC WORKS
DIVISION OF CONSTRUCTION

PLANS FOR CONSTRUCTING WITHOUT FEDERAL AID A PORTION OF THE
SCAJAQUADA CREEK EXPRESSWAY (SECTION 1)
(Niagara Thruway to Grant Street Interchange)
From Station N 433+35 to Station B 451+43.0, a length of 0.33 mile (Plus 0.35 mile of ramps) in the
City of Buffalo

AND FOR CONSTRUCTING WITH FEDERAL AID A PORTION OF THE
SCAJAQUADA CREEK EXPRESSWAY (SECTION 1)
(Niagara Thruway to Grant Street Interchange)
From Station F 443+04 to Station 527+00, a length of 1.17 miles (Plus 0.56 mile of ramps) in the
City of Buffalo F. A. PROJECT NO. U-1087 (4)

A TOTAL LENGTH OF 1.90 MILES (AND 0.91 MILE OF RAMPS)

CONTRACT NO. F.A.S.C.E. 59-1

ERIE COUNTY

RECORD PLANS

THIS SET OF MICROFILM SHOT FROM WHITE LINE PRINTS

Approximate Location
of Scajquada Creek Expressway
from Niagara Thruway to Elmwood Ave. in the
CITY OF BUFFALO.

CONTRACTOR M.A.E. OTTAVIANO INC.
AWARD DATE: APRIL 29, 1963
COMPLETION DATE: MAY 23, 1963
FINAL ACCEPTANCE DATE: JULY 12, 1963
REGIONAL DIRECTOR: N.W. KRAPP
ENGINEER IN CHARGE: K.V. JOSEPH
COST TOTAL: \$,220,016.75

SPECIAL NOTE
WHEREVER THE FOLLOWING ITEMS IN
COLUMNS 1 OR 2 OF THESE PLANS
THE CORRESPONDING ITEM IN COLUMN
SHOULD BE USED

COLUMN 1	COLUMN 2
ITEM 1	ITEM 2
ITEM 3	ITEM 4
ITEM 5	ITEM 6
ITEM 7	ITEM 8
ITEM 9	ITEM 10

FEDERAL REG. NO.	STATE	PROJECT NO.
	NY	22-7227
CITY OF BUFFALO		
SCAJAQUADA CREEK EXPRESSWAY		
NIAGARA THRUWAY INTERCHANGE		
SECTION 1		
NIAGARA THRUWAY TO GRANT ST. INTERCH.		

- A. Without Federal Aid
- Visuloch
 - Concrete
 - Aluminum
 - With Federal Aid
 - Visuloch
 - Concrete
 - Asphalt Concrete
 - Miscellaneous Work
- STANDARD STRUCTURE
- 40-4, 50-34, 51-21, 54-18P, 54-18B, 55-109B, 56-1, 56-43R, 56-57, 59-3, 59-11R, 59-11W, 59-17W, 59-17A, 59-18C, 59-49, 59-50, 59-62, 59-63, 59-64C, 59-64D, 59-100, 59-101, 59-102, 59-41, 59-40B, 59-103, 59-104
- All work construction under this contract by and in conformity with the specifications January 2, 1957, except as modified on in the Itemized Proposal.

PREPARED AND RECOMMENDED BY
William H. McFarland
WILLIAM H. MCFARLAND
Engineer
NYS. R.E. Lic. No. 2043

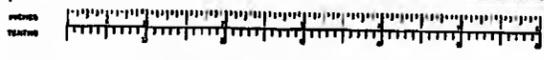
DEPARTMENT OF PUBLIC WORKS
APPROVED BY:
E.G.H. Youngmann
E.G.H. YOUNGMANN
District Engineer

APPROVED BY:
John S. Raymond
JOHN S. RAYMOND
Asst. Deputy Chief Engineer

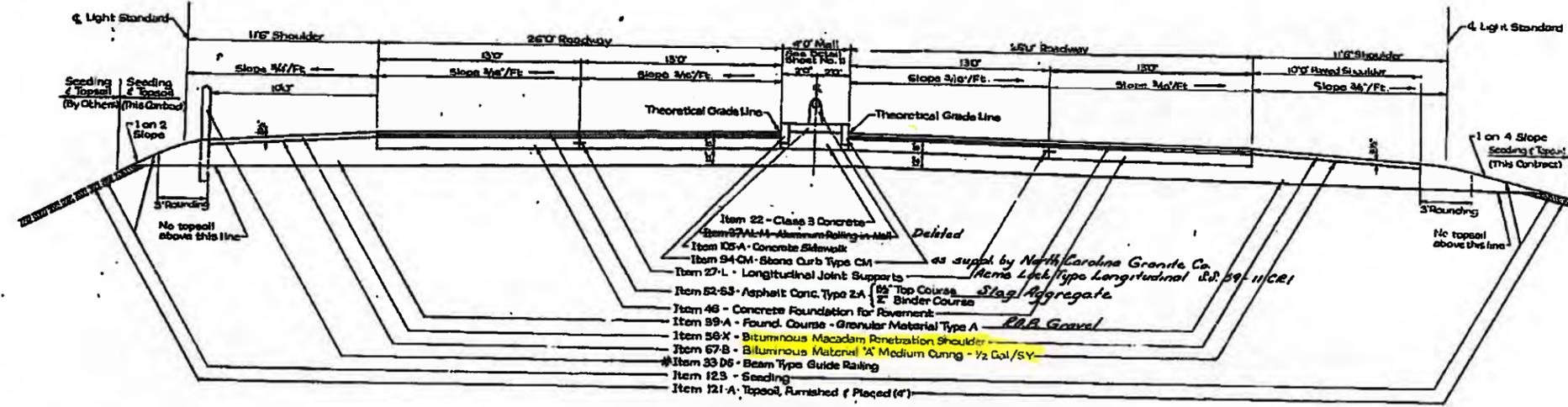
APPROVED BY:
Carroll F. Blanchard
CARROLL F. BLANCHARD
Deputy Chief Engineer

APPROVED BY:
Henry T. Johnson
HENRY T. JOHNSON
Chief Engineer

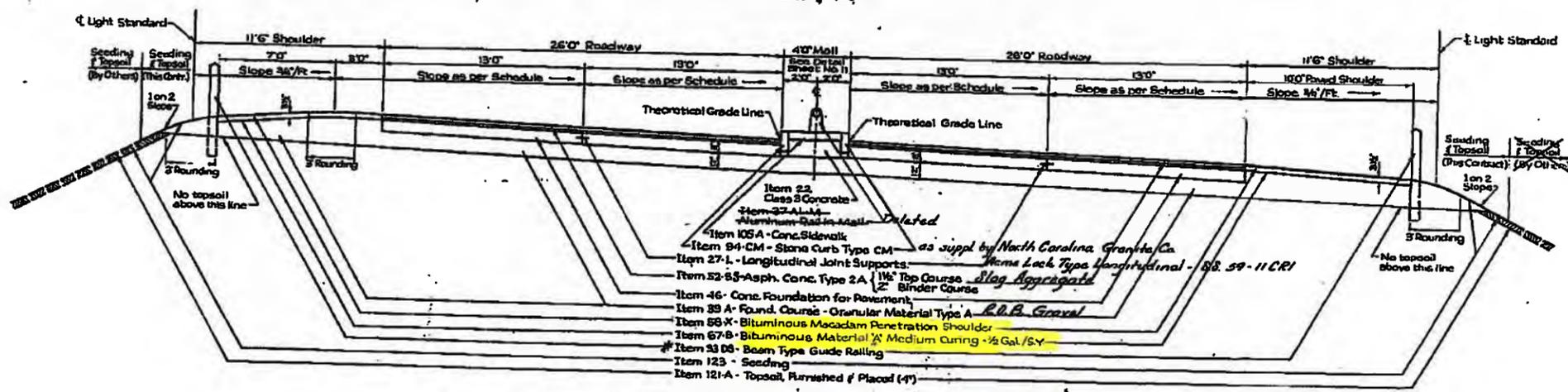
CITY OF BUFFALO
APPROVED BY:
Frank A. ...
FRANK A. ...
City Engineer



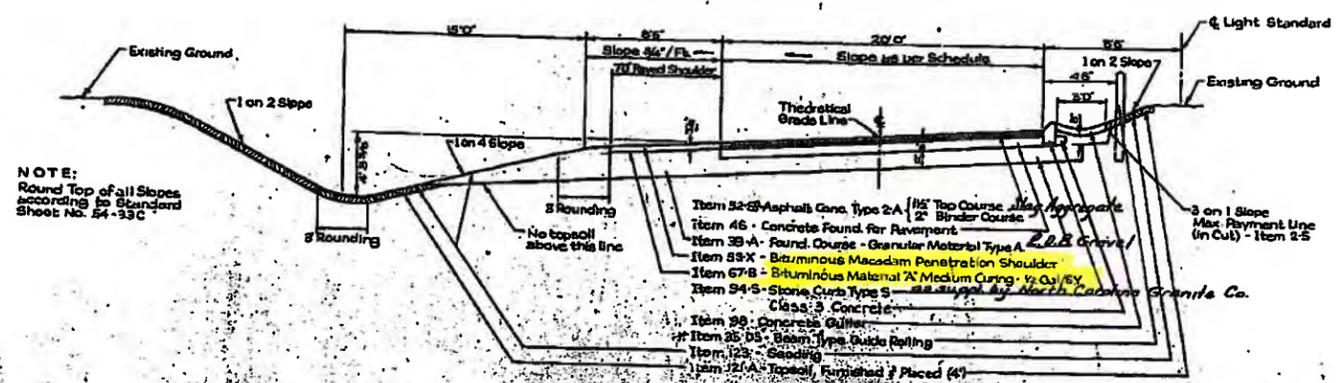
FED. RD. PROJ. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-1887 (4)		7R	202
CITY OF BUFFALO SCAJAQUADA CREEK EXPRESSWAY NIAGARA THRUWAY - DELAWARE AVE					
SECTION NIAGARA THRUWAY INTERCHANGE TO GRANT ST INTERCHANGE					



TYPICAL TANGENT SECTION - EXPRESSWAY
SCALE: 1/4" = 1'-0"



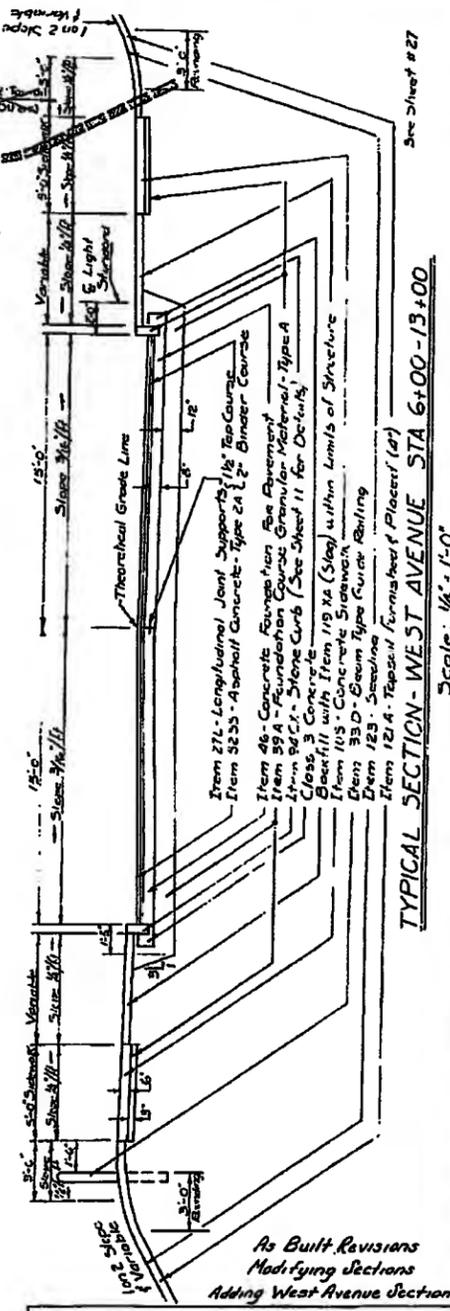
TYPICAL BANKED SECTION - EXPRESSWAY
SCALE: 1/4" = 1'-0"



TYPICAL SECTION - RAMP H
STA 4354+00 TO STA 4366+00
SCALE: 1/4" = 1'-0"

NOTE:
Round Top of all Slopes
according to Standard
Sheet No. 54-33C

See Sh. No. 8



TYPICAL SECTION - WEST AVENUE STA 6+00 - 13+00
SCALE: 1/4" = 1'-0"

- Item 22 - Class 3 Concrete
- Item 27-A - Aluminum Rolling on Mill
- Item 94-CM - Stone Curb Type CM
- Item 27-L - Longitudinal Joint Supports
- Item 52-53 - Asphalt Conc. Type 2A
- Item 46 - Concrete Foundation for Pavement
- Item 39-A - Found. Course - Granular Material Type A
- Item 58-X - Bituminous Macadam Penetration Shoulder
- Item 67-B - Bituminous Material 'A' Medium Curing - 1/2 Gal./Sq. Yd.
- Item 33-D5 - Beam Type Guide Railing
- Item 123 - Seeding
- Item 121-A - Topsoil, Furnished & Placed (4")

- Item 22 - Class 3 Concrete
- Item 27-A - Aluminum Rolling on Mill
- Item 94-CM - Stone Curb Type CM
- Item 27-L - Longitudinal Joint Supports
- Item 52-53 - Asphalt Conc. Type 2A
- Item 46 - Conc. Foundation for Pavement
- Item 39-A - Found. Course - Granular Material Type A
- Item 58-X - Bituminous Macadam Penetration Shoulder
- Item 67-B - Bituminous Material 'A' Medium Curing - 1/2 Gal./Sq. Yd.
- Item 33-D5 - Beam Type Guide Railing
- Item 123 - Seeding
- Item 121-A - Topsoil, Furnished & Placed (4")

- Item 52-53 - Asphalt Conc. Type 2A
- Item 46 - Concrete Found. for Pavement
- Item 39-A - Found. Course - Granular Material Type A
- Item 58-X - Bituminous Macadam Penetration Shoulder
- Item 67-B - Bituminous Material 'A' Medium Curing - 1/2 Gal./Sq. Yd.
- Item 94-S - Stone Curb Type S
- Item 22 - Class 3 Concrete
- Item 29 - Concrete Gutter
- Item 25-D5 - Beam Type Guide Railing
- Item 123 - Seeding
- Item 121-A - Topsoil, Furnished & Placed (4")

- Item 27-L - Longitudinal Joint Supports
- Item 52-53 - Asphalt Conc. Type 2A
- Item 46 - Concrete Foundation for Pavement
- Item 39-A - Found. Course - Granular Material Type A
- Item 58-X - Bituminous Macadam Penetration Shoulder
- Item 67-B - Bituminous Material 'A' Medium Curing - 1/2 Gal./Sq. Yd.
- Item 33-D5 - Beam Type Guide Railing
- Item 123 - Seeding
- Item 121-A - Topsoil, Furnished & Placed (4")

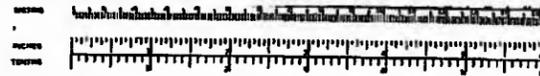
As Built Revisions
Modifying Sections
Adding West Avenue Section

STATE OF NEW YORK - DEPARTMENT OF PUBLIC WORKS
CITY OF BUFFALO
SCAJAQUADA CREEK EXPRESSWAY - SECTION I

TYPICAL SECTIONS

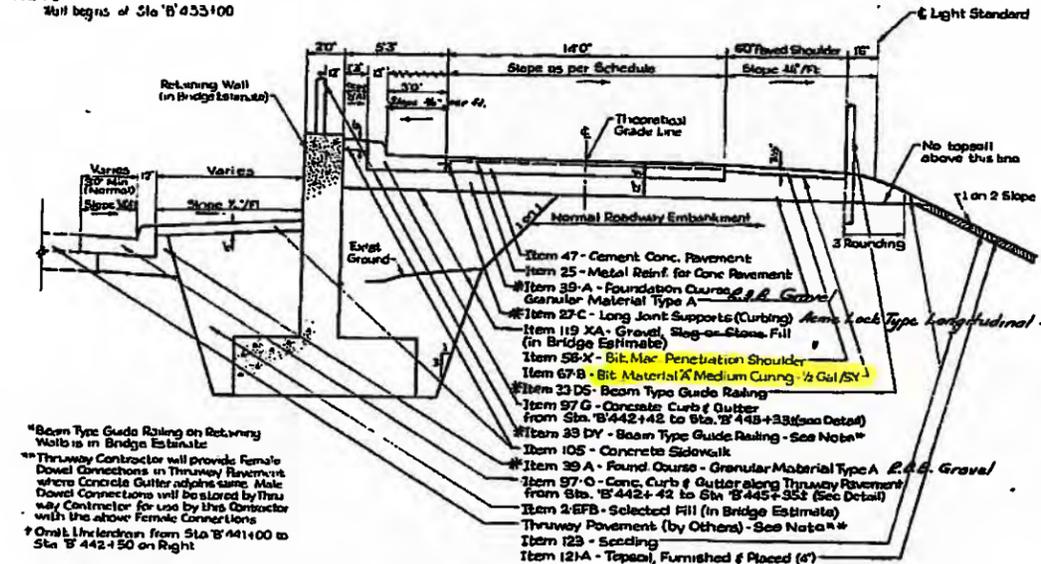
PREPARED and RECOMMENDED
WILLIAM H. McFARLAND N.Y.S. P.E. LIC. No. 20433 DATE: 12/2/58
ENGINEER

Designed by: C. Winterberger
Traced by: R. Wallenberg
Checked by: J. S. Ica



FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	NY	0-1087 (4)		8 R	202
CITY OF BUFFALO SCAJAQUADA CREEK EXPRESSWAY NIAGARA THRUWAY - DELAWARE AVE					
SECTION I NIAGARA THRUWAY INTERCHANGE TO GRANT ST INTERCHANGE					

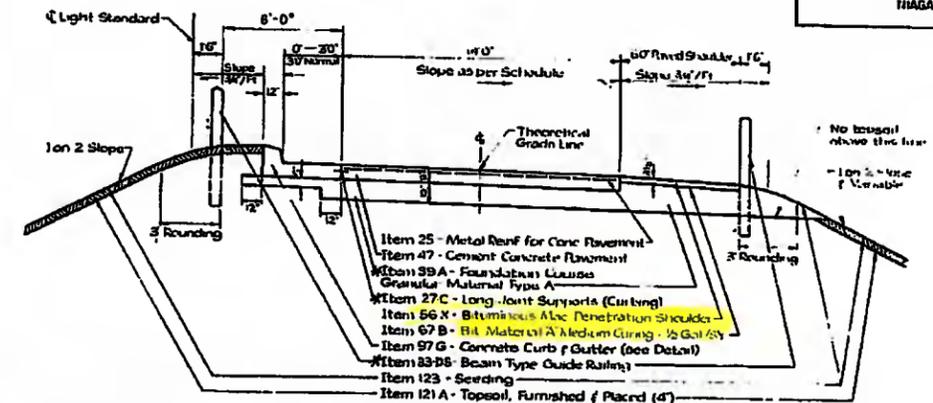
NOTE
Wall begins at Sta. B'453+00



*Beam Type Guide Railing on Retaining Walls in Bridge Estimate
*Thruway Contractor will provide Female Dowel Connections in Thruway Pavement where Concrete Gutter adjoins same. Male Dowel Connections will be placed by Thruway Contractor for use by the Contractor with the above Female Connections
*Orbit Underdrain from Sta. B'441+00 to Sta. B'442+50 on Right

- Item 47 - Cement Conc. Pavement
- Item 25 - Metal Reinf. for Conc. Pavement
- Item 39-A - Foundation Course - Granular Material Type A
- Item 27-C - Long Joint Supports (Curbing)
- Item 119-XA - Gravel, Slag or Stone Fill (in Bridge Estimate)
- Item 56-X - Bit. Mac. Penetration Shoulder
- Item 67-B - Bit. Material Medium Curing - 1/2 Gal/SY
- Item 33-D5 - Beam Type Guide Railing
- Item 97-G - Conc. Curb & Gutter (See Detail)
- Item 33-DY - Beam Type Guide Railing - See Note
- Item 105 - Concrete Sidewalk
- Item 39-A - Found. Course - Granular Material Type A
- Item 97-G - Conc. Curb & Gutter along Thruway Pavement from Sta. B'442+42 to Sta. B'445+35 (See Detail)
- Item 2-6PB - Selected Fill (in Bridge Estimate)
- Thruway Pavement (by Others) - See Note
- Item 123 - Seeding
- Item 121-A - Topsoil, Furnished & Placed (4')

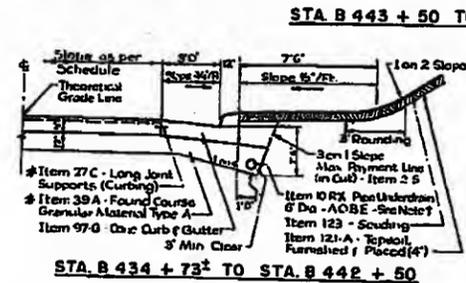
NOTE: Delete Payment Limits of Item 5 Excavation in the case of Underdrain shall coincide with limits shown for Item 119-XA



TYPICAL SECTION RAMP F
THRUWAY INTERCHANGE

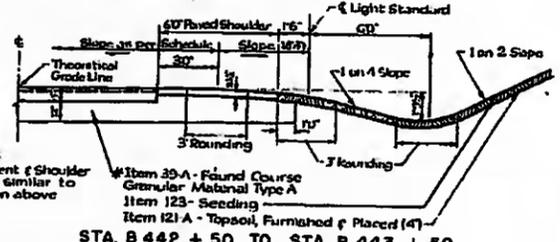
SCALE: 1/4" = 1'-0"

NOTE
Round Top of wall 5' min. above the ground surface. Standard Sheet No. 53-35'



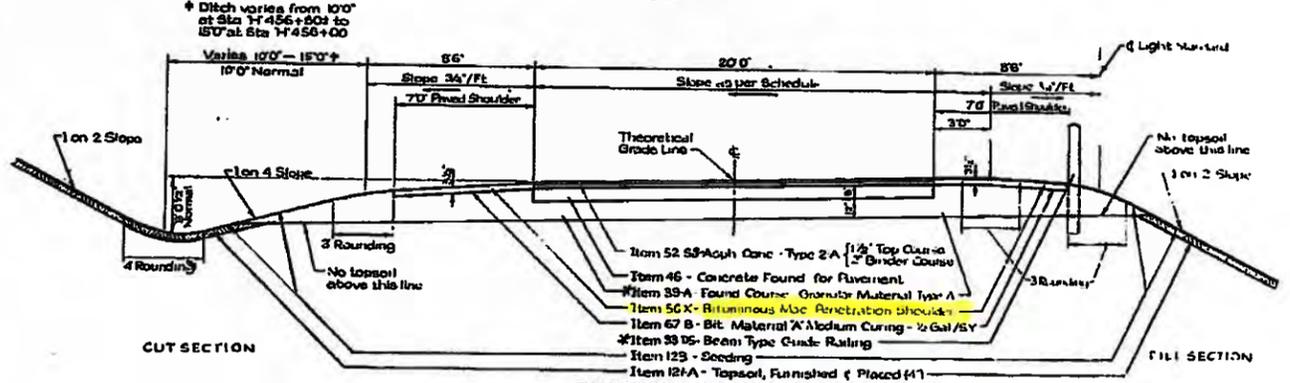
TYPICAL SECTION RAMP B
THRUWAY INTERCHANGE

NOTE:
Pavement & Shoulder Items similar to Section above



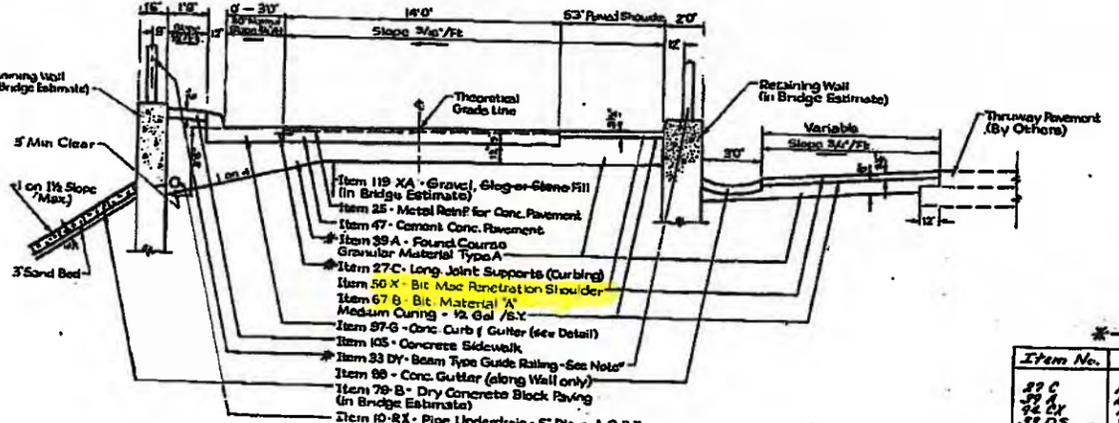
TYPICAL SECTION RAMP B
THRUWAY INTERCHANGE

SCALE: 1/4" = 1'-0"



TYPICAL SECTION RAMP H
THRUWAY INTERCHANGE

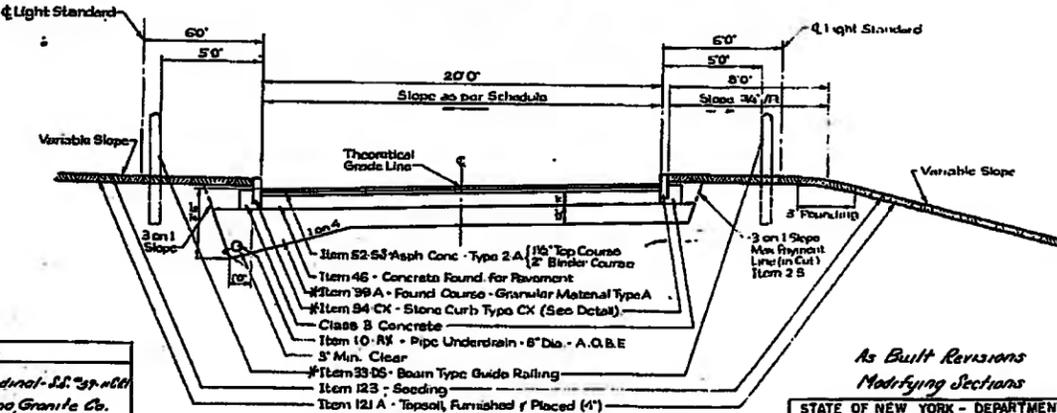
SCALE: 1/4" = 1'-0"



TYPICAL SECTION RAMP E
THRUWAY INTERCHANGE

SCALE: 1/4" = 1'-0"

Item No.	As Built Notes
33 C	As per Longitudinal - S.S. 59-11 C&I
33 D	As per Longitudinal - S.S. 59-11 C&I
33 D5	As per Longitudinal - S.S. 59-11 C&I
33 D7	As per Longitudinal - S.S. 59-11 C&I
33 AK	As per Longitudinal - S.S. 59-11 C&I



TYPICAL SECTION
RAMPS G & H (CURBED BOTH SIDES)
THRUWAY INTERCHANGE

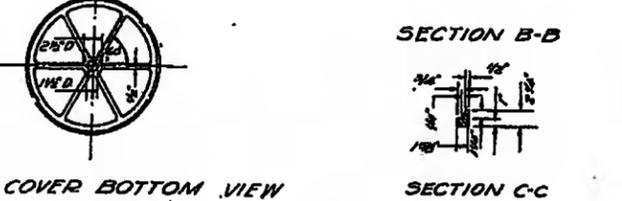
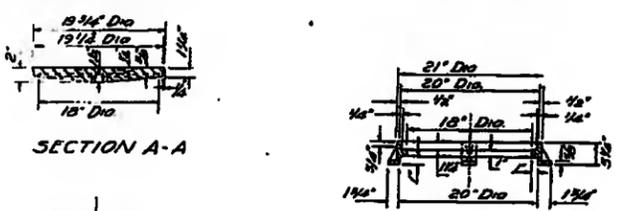
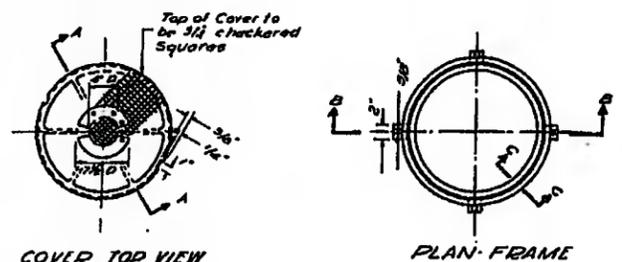
SCALE: 1/4" = 1'-0"

As Built Revisions
Modifying Sections

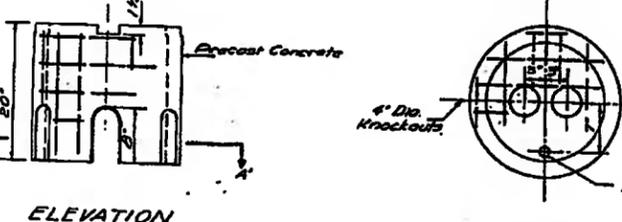
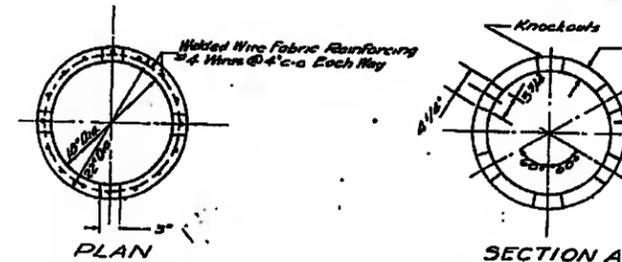
STATE OF NEW YORK - DEPARTMENT OF PUBLIC WORKS CITY OF BUFFALO SCAJAQUADA CREEK EXPRESSWAY - SECTION I	
TYPICAL SECTIONS	
PREPARED AND RECOMMENDED WILLIAM H. McFARLAND	
NYS RE. LIC. NO. 20143 DATE 11-21-09 ENGINEER	

Designed By: J. Taylor
Traced By: R. Wallenberg
Checked By: J. Sigke

FED. REG. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	1-1047 (A)		13 R	202
CITY OF BUFFALO SCAJAQUADA CREEK EXPRESSWAY NIAGARA THRUWAY - DELAWARE AVE					
SECTION I NIAGARA THRUWAY INTERCHANGE TO GRANT ST. INTERCHANGE					



HANDHOLE FRAME & COVER - ROADWAY
Scale 1" = 1'-0"



NOTE: Concrete plugs to be furnished for each Knockout Hole

DETAILS OF HANDHOLE ITEM 611
Scale 1" = 1'-0"

* NOTE: To be used where handholes are indicated at locations off of the road. See product plans for handholes to be used on the structure.

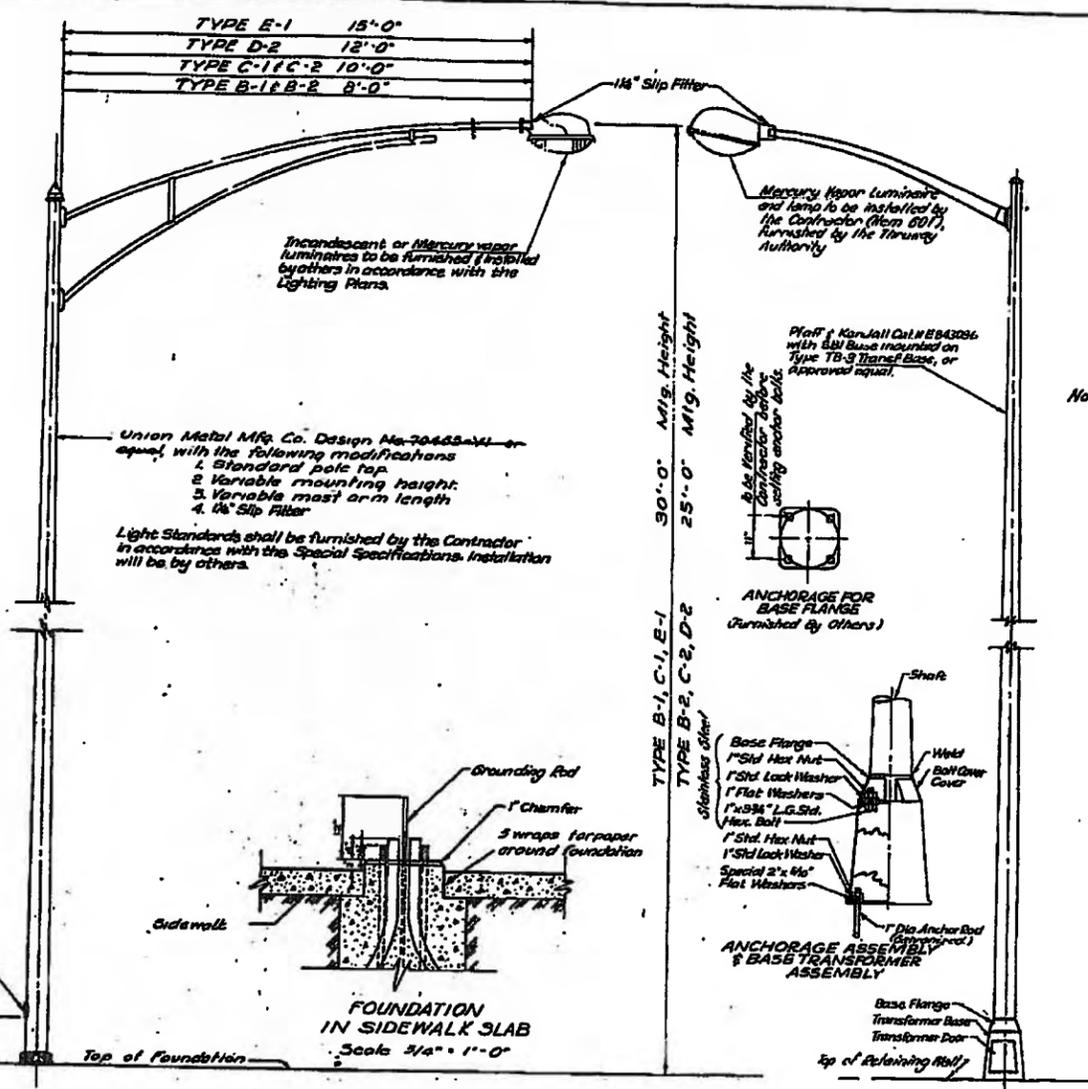
Designed by: R. F. ...
Traced by: E. Lester
Checked by: R. Greenberg

MATERIAL
Material shall conform to A.S.T.M. Specs for Std. gray iron castings Serial Designation 48-26 Class No. 30.

WORKMANSHIP
Castings to be sound free from defects and true to drawing sizes. Contact surfaces on frame and cover shall be ground if necessary to insure uniform bearing.

MARKINGS
Date cast and foundry initials shall be cast on each piece. Markings to be on inside wall of frame and underside of cover.

TRENCH NOTES
The trench shall be graded to provide a fall of 3" per 100' toward drainage pockets. Drainage pockets shall be constructed in each conduit run but not within 2 feet of lighting standard foundations. They shall be 18" square and 20" deep, filled with gravel stone 1/2" to 1/4" size and covered with a 2" Class 3 Concrete pad. A tee of the same material as the duct used shall drain the duct through the concrete pad to the stone. Payment for furnishing and installing drainage piping shall be included in price bid for Item 603. Cement will be paid for under its respective cement item. Payment for the gravel drainage pocket & concrete pad shall be included in price bid for Item 5-X.



LIGHT STANDARD ITEM 600
SCALE: 3/4" = 1'-0"

NOTE: Payment for "Foundation for Lighting Standard" Item 606 shall be for foundation complete in place, including excavation beyond limits of duct beyond trench excavation, trench excavation, gravel, concrete, and backfill. Galvanized W.I. conduits, anchor bolts, and cement will be paid for under their respective items.

ALUMINUM LIGHT STANDARD * *
SCALE: 3/8" = 1'-0"

NOTE: All anchor bolts and appurtenant nuts and washers shall be galvanized to meet the provisions of the Special Notes and shall be paid for under Item 29. For Details of Lighting Anchorage, Graveling & Conduit on Product and Ramp 2" Retaining Wall, see Structural Details.

As Built Revisions Shop Drawing Note

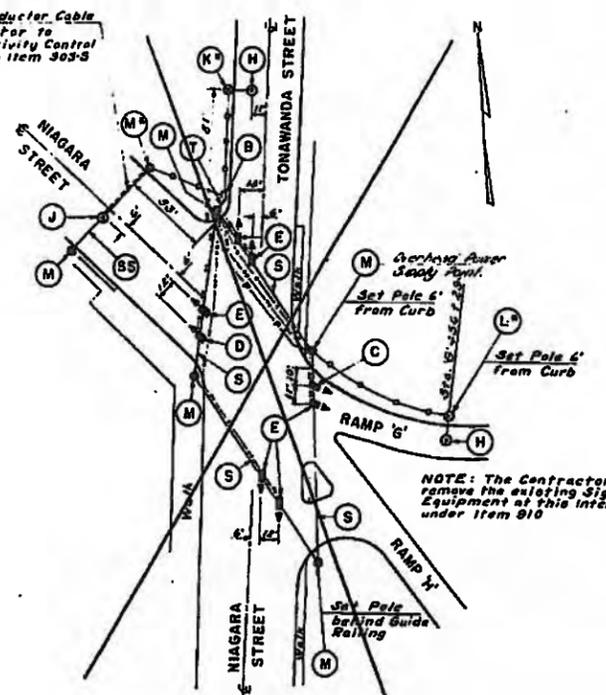
TYPICAL TRENCH EXCAVATION FOR DUCTS and **TYPICAL CONCRETE FOUNDATION FOR LIGHTING STANDARDS - ITEM 606**
Scale 3/4" = 1'-0"

STATE OF NEW YORK - DEPARTMENT OF PUBLIC WORKS	
CITY OF BUFFALO	
SCAJAQUADA CREEK EXPRESSWAY - SECTION I	
LIGHTING DETAILS	
PREPARED and RECOMMENDED	NYS. PE. LIC. No. 20433 DATE: 12-1-58
WILLIAM H. MCFARLAND	ENGINEER

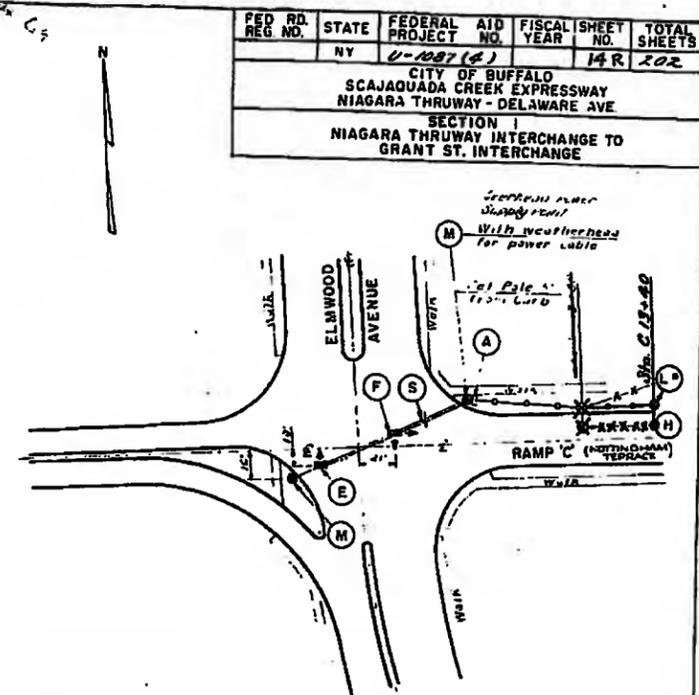
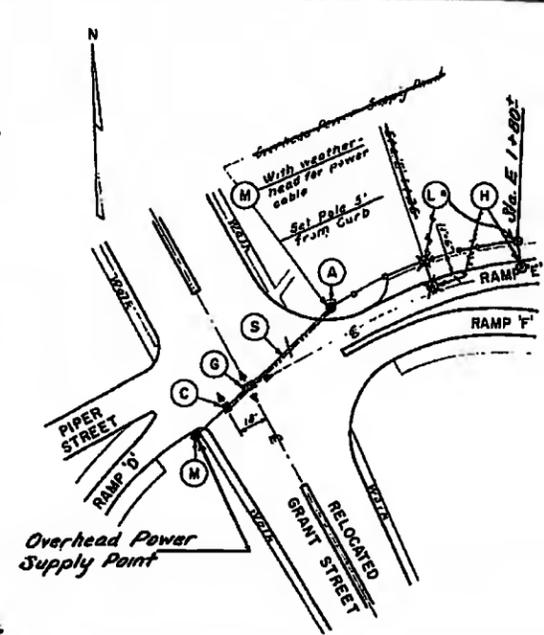
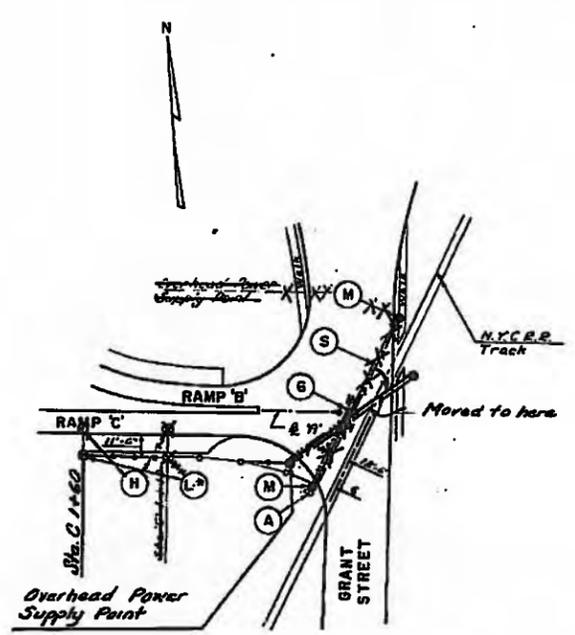
3 Conductor Cable
 Defect For to
 Sensitivity Control
 Incl. in Item 303-S

FED. RD. REG. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	NY	U-1087 (A)		14 R	202

CITY OF BUFFALO
 SCAJAUQUADA CREEK EXPRESSWAY
 NIAGARA THRUWAY - DELAWARE AVE
 SECTION I
 NIAGARA THRUWAY INTERCHANGE TO
 GRANT ST. INTERCHANGE



NOTE: The Contractor shall remove the existing Signal Equipment at this intersection under Item 910



SIGNAL NO. 1

For Signal #1 Layout, see sheet #10

SIGNAL NO. 2

SIGNAL NO. 3

SIGNAL NO. 4

SYMBOL	ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITIES				NEAR TOTAL	Final ROUND TOTAL	REMARKS
				SIGNAL NO. 1	SIGNAL NO. 2	SIGNAL NO. 3	SIGNAL NO. 4			
A	900	Semi-Vehicle Actuated Two-Phase Signal Controller	Each	—	1	1	1	3	3	
B	901	Volume-Density Three Phase Signal Controller	Each	1	—	—	—	1	1	
C	902-11	One Way, One Section, 12 inch Signal Head	Each	1	—	1	—	2	2	
D	902-12	One Way, Two Section, 12 inch Signal Head	Each	1	—	—	—	1	1	
E	902-14	One Way, Four Section, 8 inch Signal Head	Each	6	—	—	1	7	7	
F	902-24	Two Way, Four Section, 8 inch Adjustable Signal Head	Each	—	—	—	1	1	1	
G	902-34	Three Way, Four Section, 8 inch Adjustable Signal Head	Each	—	1	1	—	2	2	
H	903-N	Radar Vehicle Detector Unit Mast Arm Mounted	Each	2	1	1	1	5	5	
J	903-S	Radar Vehicle Detector Unit Span Wire Mounted	Each	1	—	—	—	1	1	
K	903-A	Pole Assembly-Type 'A' For Radar Detector Unit, Complete With Foundation	Each	1	—	—	—	1	1	
L	904-B	Pole Assembly-Type 'B' For Radar Detector Unit, Complete With Foundation	Each	1	1	1	1	4	4	Cement will be paid for under its respective item
M	905	38 Foot Steel Pole	Each	2	2	2	2	11	11	Items 15-28, 28, and 30 will also be paid for pole foundations
S	906	Span Wire Assembly	Lin. Ft.	526.7	192	112	129	959.7	959.7	Single Span Wire
SS	907	Span Wire Assembly	Lin. Ft.	435.5	122	119	112	789.5	789.5	Double Span Wire
T	907-A	2-inch Asbestos Cement Signal Conduit, Concrete Encased	Lin. Ft.	435.5	122	119	112	789.5	789.5	To contain Three Conductor Cable - Item 908-N3
	907-B	4-inch Asbestos Cement Signal Conduit, Concrete Encased	Lin. Ft.	7	—	—	—	7	7	To contain 1-3 Conductor Cable From Detector; 4-8 Conductor Cables and 1 Power Cable
	908-N3	Three Conductor Cable	Lin. Ft.	809.4	127	130	112	1178.4	1178.4	Install overhead along Span Wire
	908-N8	Eight Conductor Cable	Lin. Ft.	789.7	92	30	112	1023.7	1023.7	Install underground in 2" Fiber Conduit
	909	Power Cable	Lin. Ft.	336	32	133	30	531	531	Install overhead along Span Wire

NOTES:

- * Denotes pole with sensitivity control.
- All steel poles shown on this sheet shall be set 2'-0" from adjacent curb unless otherwise indicated.
- Roadway construction in the areas of Signals No. 2, 3, and 4 is by others.
- See also Special Notes and Special Specifications
- See Sheets 3 and 4 for General Plan showing Signal Locations
- See Sheet 15 for Signal Installation Details
- Signal No. 3 At this location steel pole and signal head locations are approximate. The contractor shall, as ordered by the Engineer, try to locate signal heads approximately 60.5' ahead of the stop line on all approaches. Radar Vehicle Detectors shown shall be located approximately 150' back from the stop line where possible. Initially Phase II shall be an Automatic Recall with no vehicle detector on Niagara Street south of the intersection. However, when necessary the City of Buffalo will add a detector at this location. Signals # 2 = 3 & 4. At these locations because of possible pedestrian activity no right turn lanes are provided. Signal shall be installed to operate according to Special Notes and City of Buffalo will add any warranted right turn arrows after project is completed.

As Built Revisions
 Signals 1-4
 Table of Quantities

SCALE - 1" = 50'

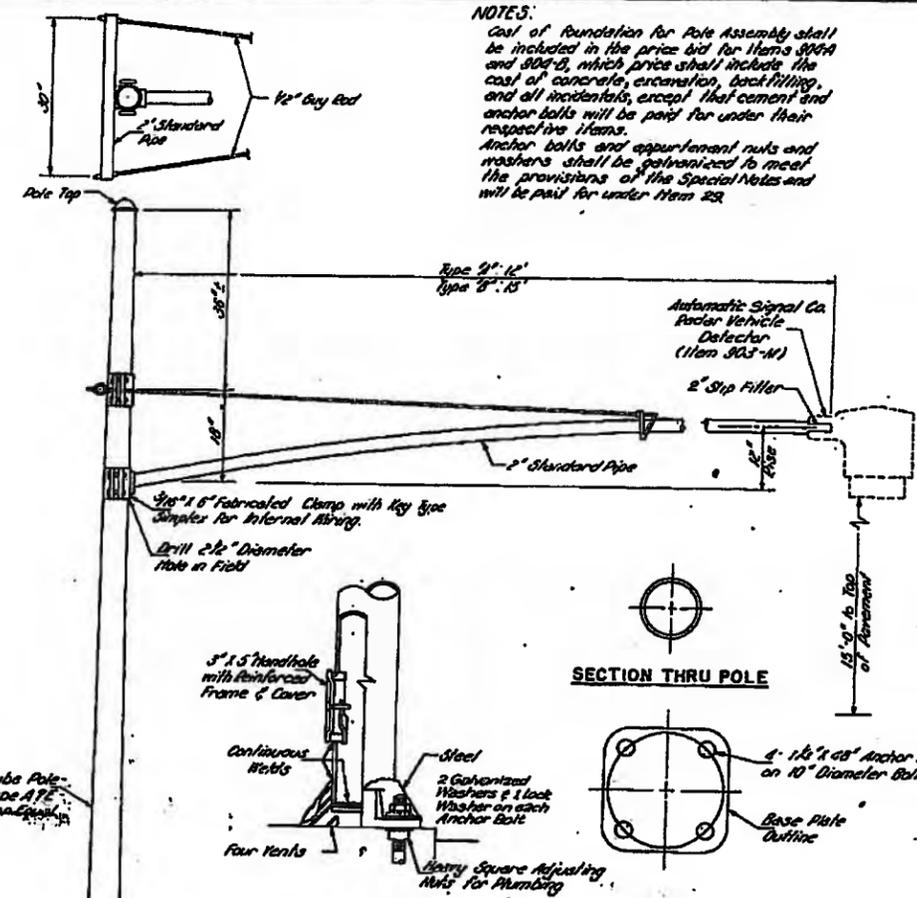
STATE OF NEW YORK - DEPARTMENT OF PUBLIC WORKS
 CITY OF BUFFALO
 SCAJAUQUADA CREEK EXPRESSWAY - SECTION I

SIGNAL INSTALLATION PLAN

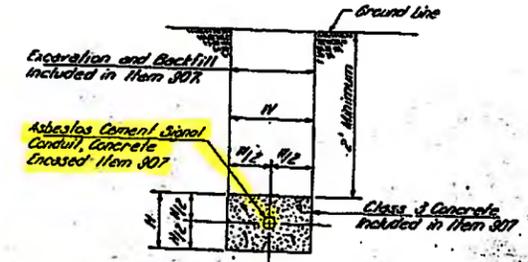
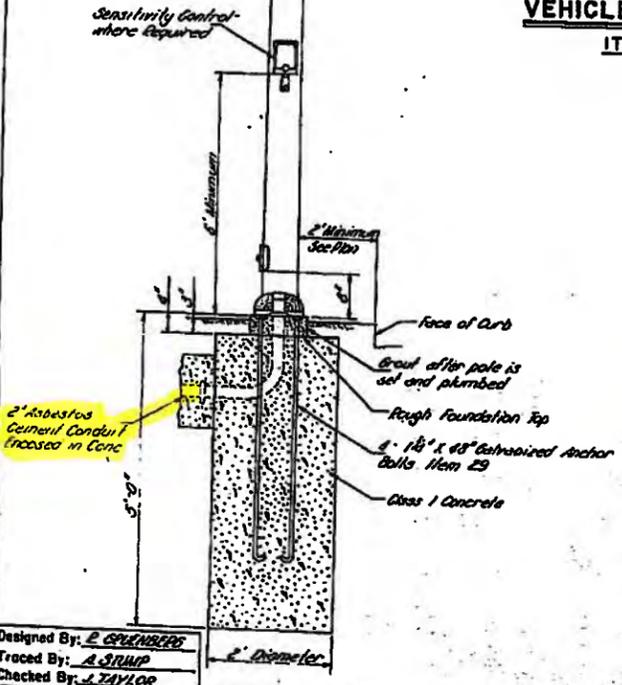
PREPARED AND RECOMMENDED
 William H. McFarland, N.Y.S. P.E. Lic. No. 20143, DATE 1/21/58
 WILLIAM H. McFARLAND ENGINEER

Designed By: E. Gruenberg
 Traced By: A. Stump
 Checked By: J. Teator

NOTES:
Cost of foundation for Pole Assembly shall be included in the price bid for Items 904A and 904B, which price shall include the cost of concrete, excavation, backfilling, and all incidentals, except that cement and anchor bolts will be paid for under their respective items.
Anchor bolts and apparatus nuts and washers shall be galvanized to meet the provisions of the Special Notes and will be paid for under Item 29.

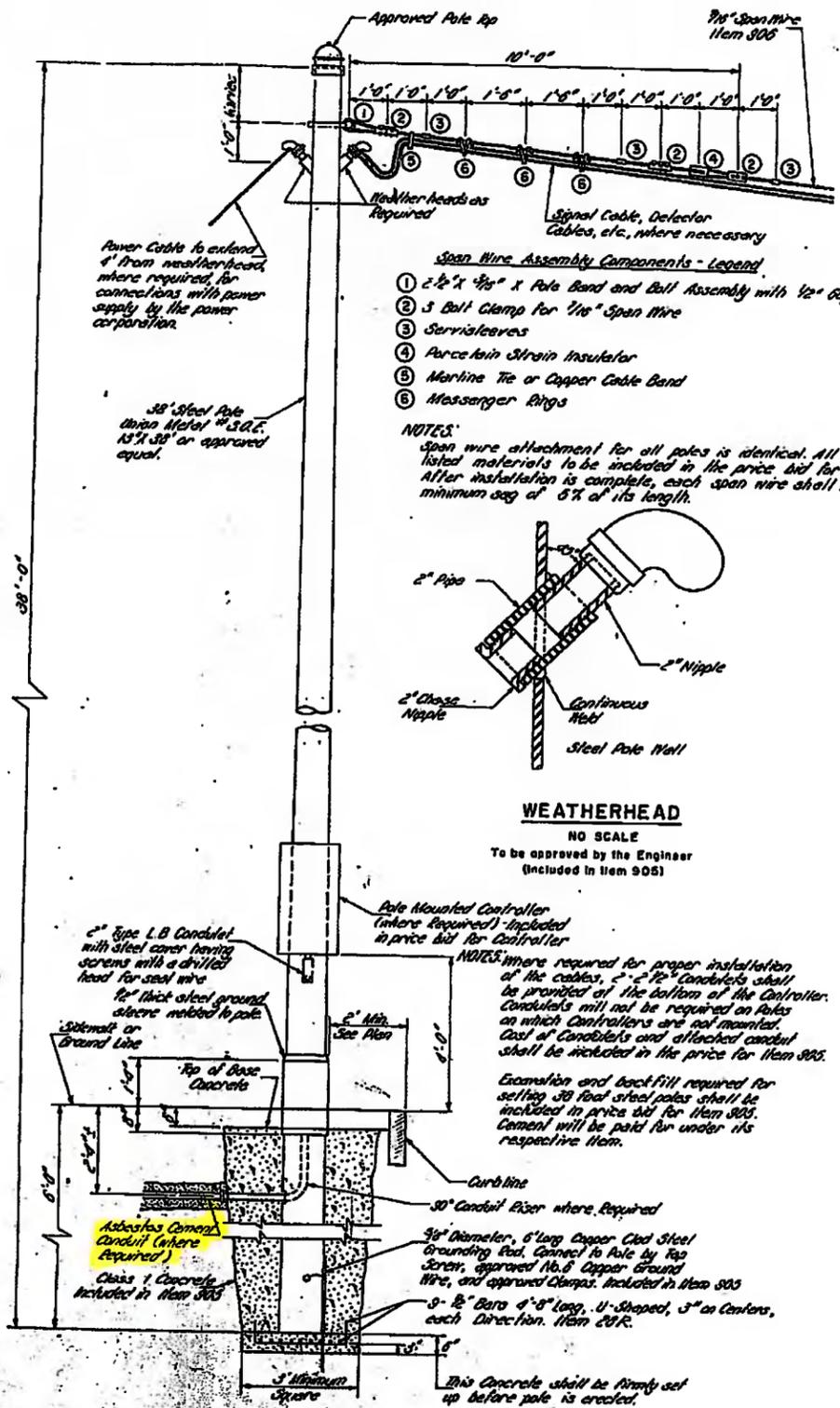


ELEVATION
PLAN
ANCHOR BOLT DETAIL
POLE ASSEMBLY FOR RADAR VEHICLE DETECTOR UNIT
ITEMS 904 A & B
NO SCALE



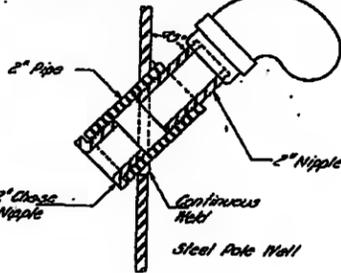
CONDUIT DIAM.	H	W
2"	8"	12"
4"	12"	16"

DETAIL SHOWING TYPICAL EXCAVATION FOR SIGNAL CONDUIT
SCALE 1" = 1'-0"



- Span Wire Assembly Components - Legend**
- 1 2 1/2" x 3/8" x Pole Band and Ball Assembly with 1/2" Guy Thimble.
 - 2 3 Ball Clamp for 1/8" Span Wire
 - 3 Serrioleaves
 - 4 Porcelain Strain Insulator
 - 5 Martine Tie or Copper Cable Band
 - 6 Messenger Rings

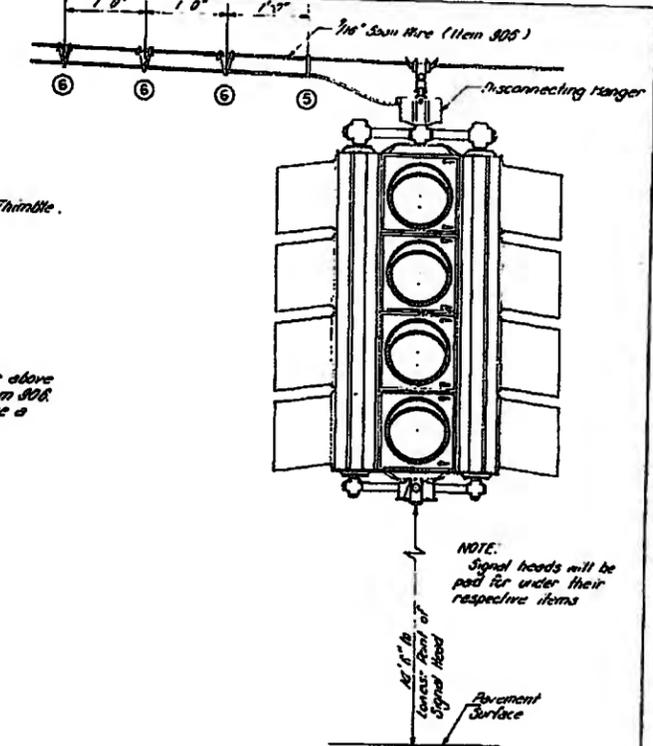
NOTES:
Span wire attachment for all poles is identical. All the above listed materials to be included in the price bid for Item 906. After installation is complete, each span wire shall have a minimum sag of 5% of its length.



WEATHERHEAD
NO SCALE
To be approved by the Engineer (Included in Item 906)

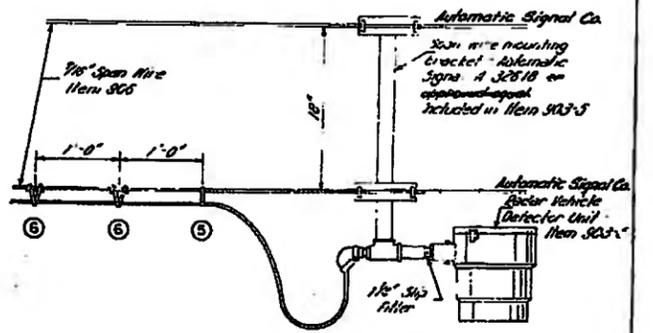
NOTES: where required for proper installation of the cables, 2" x 2" Conduits shall be provided at the bottom of the Controller. Conduits will not be required on Poles on which Controllers are not mounted. Cost of Conduits and attached conduit shall be included in the price for Item 905.
Excavation and backfill required for setting 36 foot steel poles shall be included in price bid for Item 904. Cement will be paid for under its respective item.
This concrete shall be firmly set up before pole is erected.

TYPICAL 36 FOOT STEEL POLE AND SPAN WIRE INSTALLATION
ITEMS 906 & 906
SCALE 1" = 1'-0"



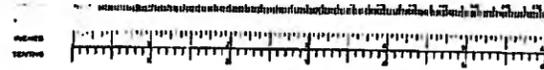
TYPICAL SIGNAL HEAD AND CABLE SUSPENSION DETAIL
NO SCALE

NOTES:
See Sheet No. 14 for Signal Installation Plans. See also Special Notes and Special Specifications



RADAR VEHICLE DETECTOR UNIT SPAN WIRE MOUNTED
ITEM 903-S
NO SCALE

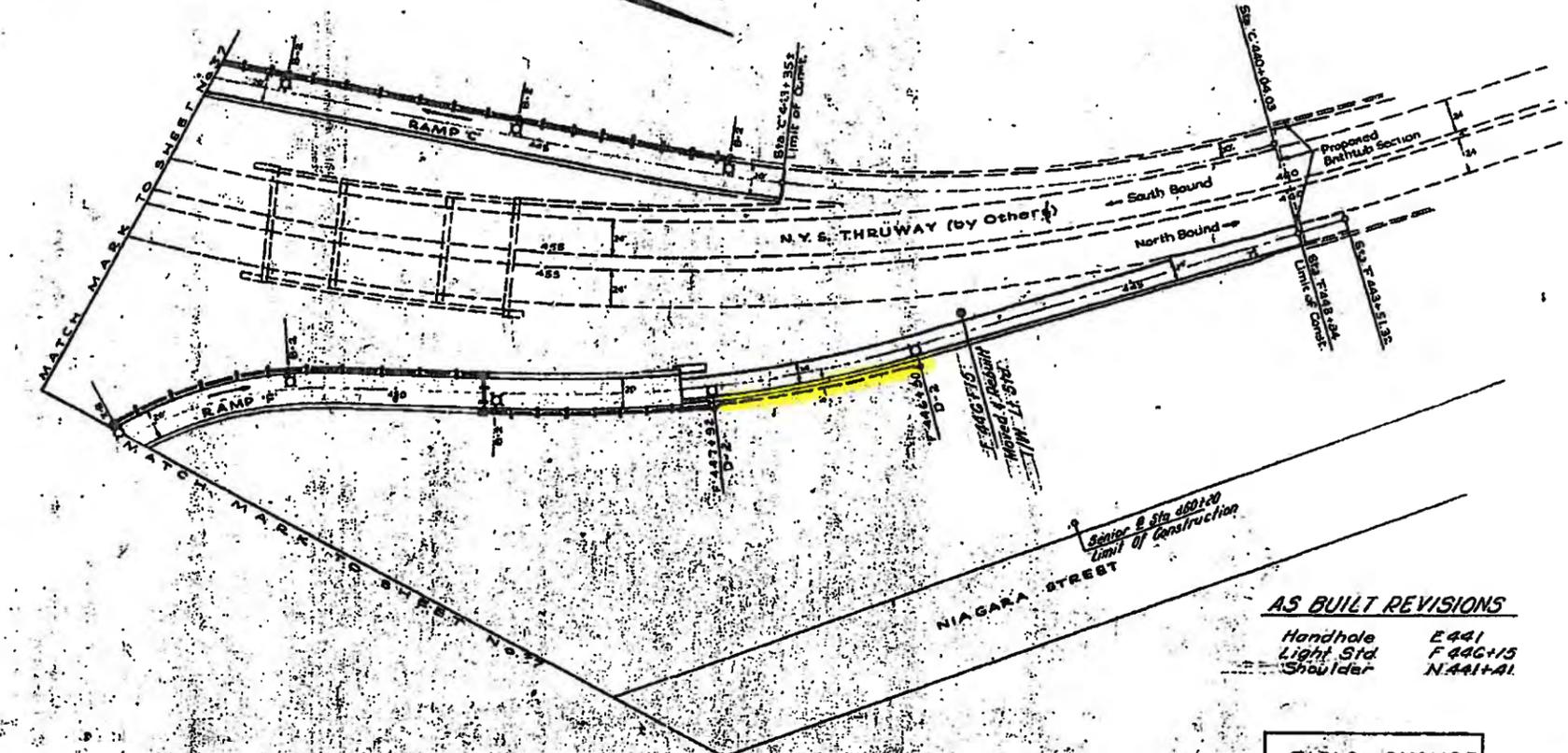
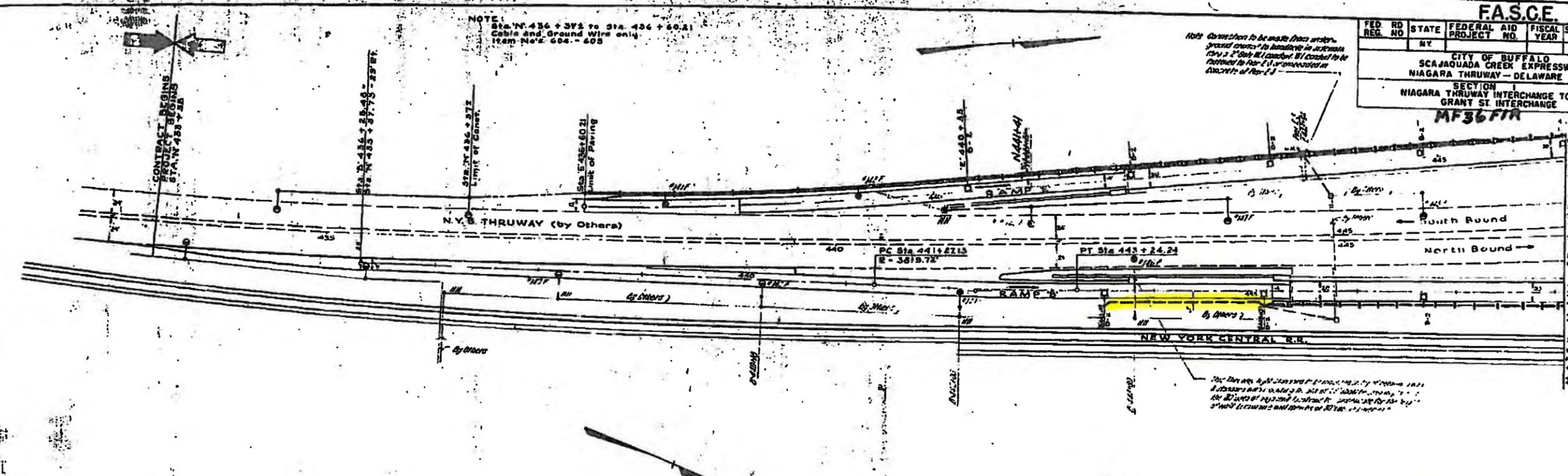
Designed By: E. SPENCER
Traced By: A. STUMP
Checked By: J. TAYLOR



F.A.S.C.E. 59-1

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	NY			36R	200

CITY OF BUFFALO
SCAJAQUADA CREEK EXPRESSWAY
NIAGARA THRUWAY - DELAWARE AVE
SECTION I
NIAGARA THRUWAY INTERCHANGE TO GRANT ST INTERCHANGE
MF36 FTR



- LEGEND**
- 2" Fiber or Asbestos Cement Conduit
 - 2" Galvanized Wrought Iron Conduit
 - Incandescent Lamp with Light Standard
 - Conduit and Cable by Others
 - Conduit by Others Cable (Item 604) and Ground Wire (Item 603) this Contract
 - 18" Round Handhole
 - Handhole at Bridge Structure
 - Galvanized Wrought Iron Conduit by Others
 - Conduit (Item 602) Cable (Item 604) and Ground Wire (Item 603) this Contract
 - Lamp with Light Standard by Others
 - Lamp with Light Standard to be installed and erected this Contract. Lamp, Luminaire, Standards to be furnished by N.Y. State Thruway Authority. (Item 601)

NEW YORK STATE DEPARTMENT OF PUBLIC WORKS
DIVISION OF CONSTRUCTION

Approved: Oct 16 1959

John Raymond
JOHN J. RAYMOND, Asst. Deputy Chief Engineer

NOTES

See Lighting Detail Sheet No. 13 for extent of 2" Galvanized Wrought Iron Conduit at Light Standard Foundations for other Details

See Structural Details for exact Location of Light Standards on Structures

AS BUILT REVISIONS

Handhole E441
Light Std F44G115
Shoulder NAA1-A1

FIELD CHANGE

Designed by: R.E. Grumbina
Traced by: R. Wallenberg
Checked by: J. Steba

STATE OF NEW YORK - DEPARTMENT OF PUBLIC WORKS
CITY OF BUFFALO
SCAJAQUADA CREEK EXPRESSWAY - SECTION I
ROADWAY LIGHTING
THRUWAY INTERCHANGE

PREPARED and RECOMMENDED
William H. McFarland
WILLIAM H. MCFARLAND, ENGINEER

NYS. P.E. LIC. No. 20413, DATE 12-2-59

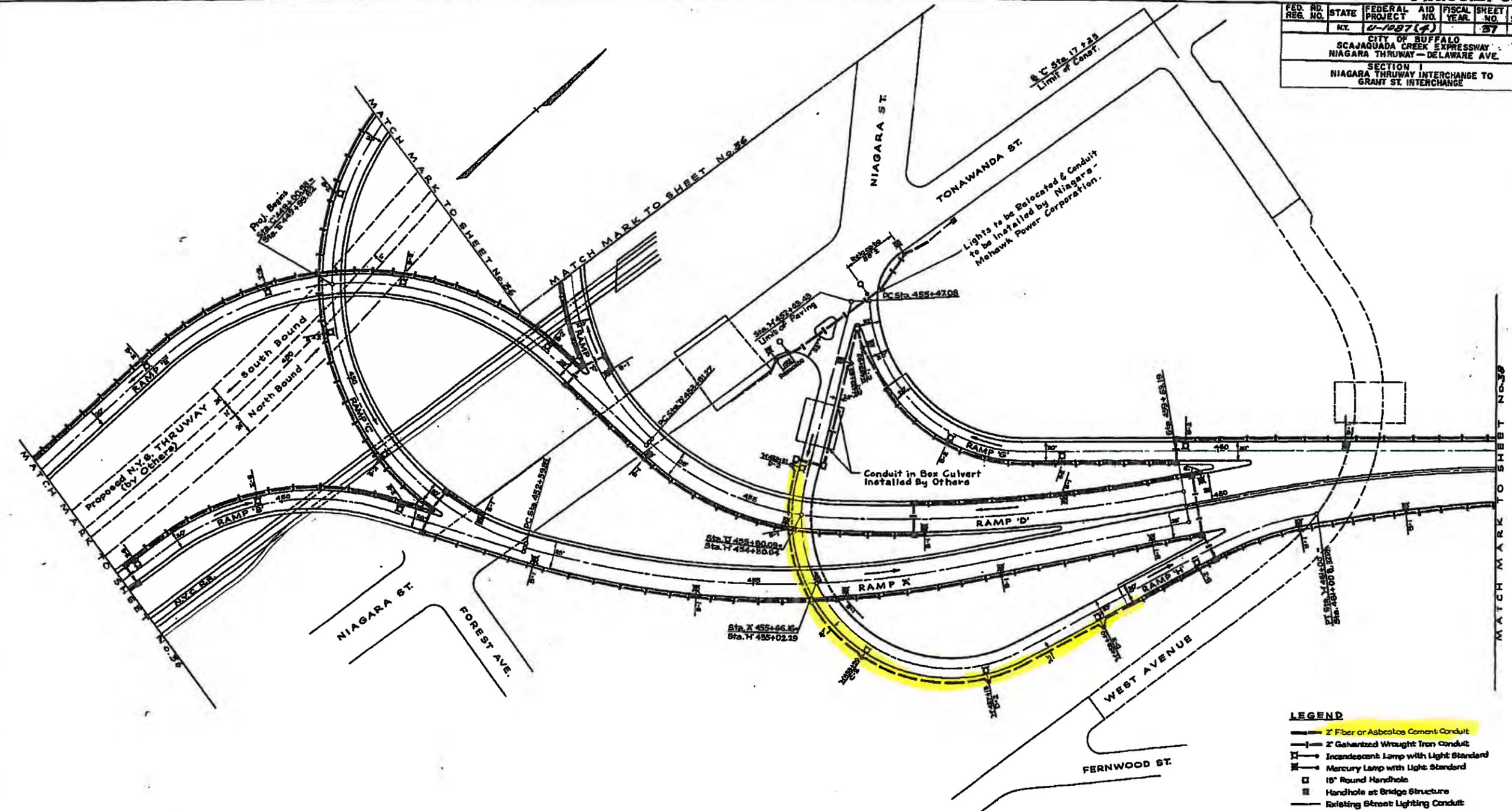
SCALE 1" = 30'



F.A.S.C.E. 59-1

FED. RD. REG. NO.	STATE	FEDERAL PROJECT NO.	AID YEAR	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	2-1087(1)			57	202

CITY OF BUFFALO
SCAJAGUADA CREEK EXPRESSWAY - NIAGARA THRUWAY - DELAWARE AVE.
SECTION I
NIAGARA THRUWAY INTERCHANGE TO GRANT ST. INTERCHANGE



LEGEND

- 2" Fiber or Asbestos Cement Conduit
- 2" Galvanized Wrought Iron Conduit
- ⊠ Incandescent Lamp with Light Standard
- ⊠ Mercury Lamp with Light Standard
- 18" Round Handhole
- ⊠ Handhole at Bridge Structure
- Existing Street Lighting Conduit
- Existing Lamp with Light Standard
- ⊠ Existing Street Lighting Handhole

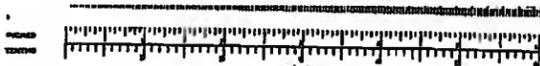
NOTES

See Lighting Detail Sheet No. 13 for extent of 2" Galvanized Wrought Iron Conduit at Light Standard Foundations for other Details.
See Structural Details for exact location of Light Standards on Structures.

STATE OF NEW YORK - DEPARTMENT OF PUBLIC WORKS CITY OF BUFFALO SCAJAGUADA CREEK EXPRESSWAY - SECTION I ROADWAY LIGHTING THRUWAY INTERCHANGE
PREPARED AND RECOMMENDED <i>W. H. ...</i> N.Y.S. BE. LIC. No. 20143 DATE/2/24/57 WILLIAM H. McFARLAND ENGINEER

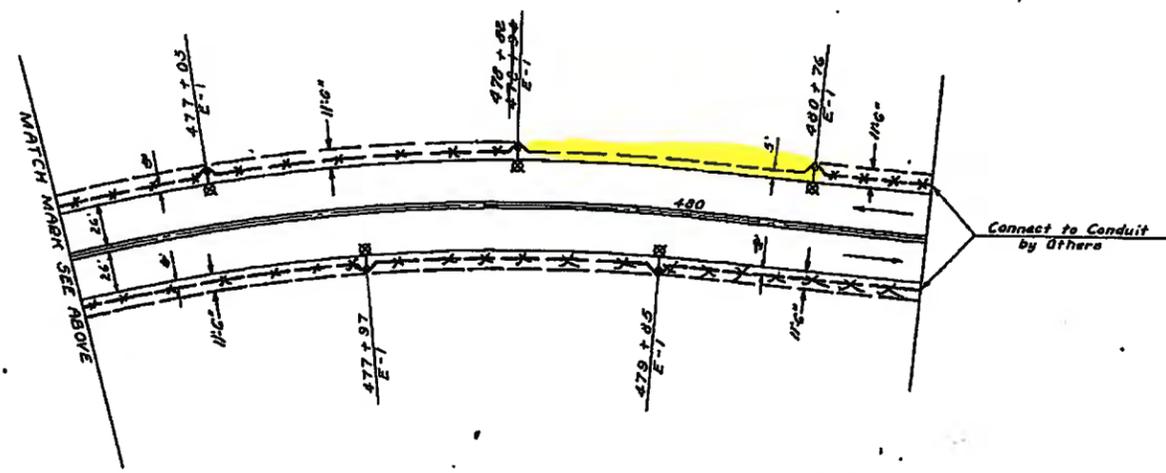
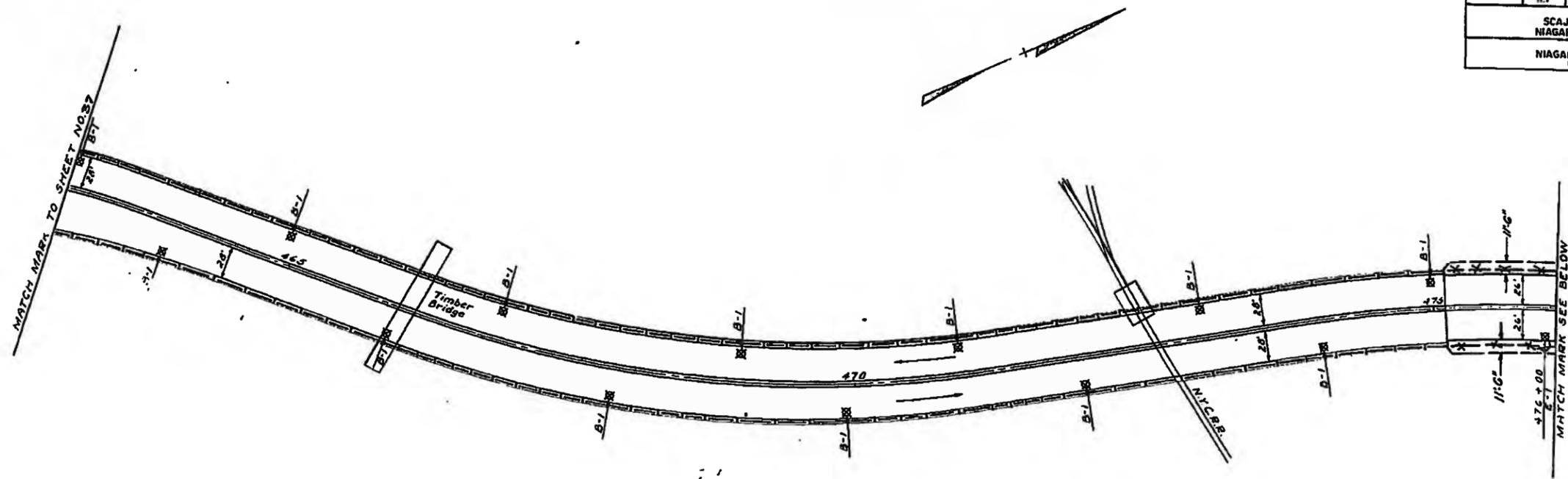
Designed by: R. E. Grunberg
Traced by: R. Waldenberg
Checked by:

SCALE 1"=50'



FED. RD. REG. NO.	STATE	FEDERAL PROJECT NO.	AID YEAR	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	NY	6-1087 (7)			58R	202

CITY OF BUFFALO
 SCAJAUQUADA CREEK EXPRESSWAY
 NIAGARA THRUWAY - DELAWARE AVE.
 SECTION I
 NIAGARA THRUWAY INTERCHANGE TO
 GRANT ST. INTERCHANGE



- LEGEND**
- 2" Fiber or Asbestos Cement Conduit
 - 2" Galvanized Wrought Iron Conduit
 - ⊠ Mercury Lamp with Light Standard

NOTES

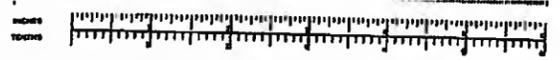
See Lighting Detail Sheet No. 13 for extent of 2" Galvanized Wrought Iron Conduit at Light Standard Foundations and other Details.

See Structural Details for exact location of Lighting Standards on Viaduct.

AS BUILT REVISIONS
 Conduit Location 475+00-481+50

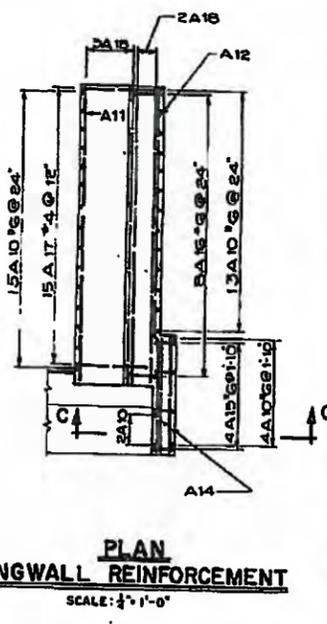
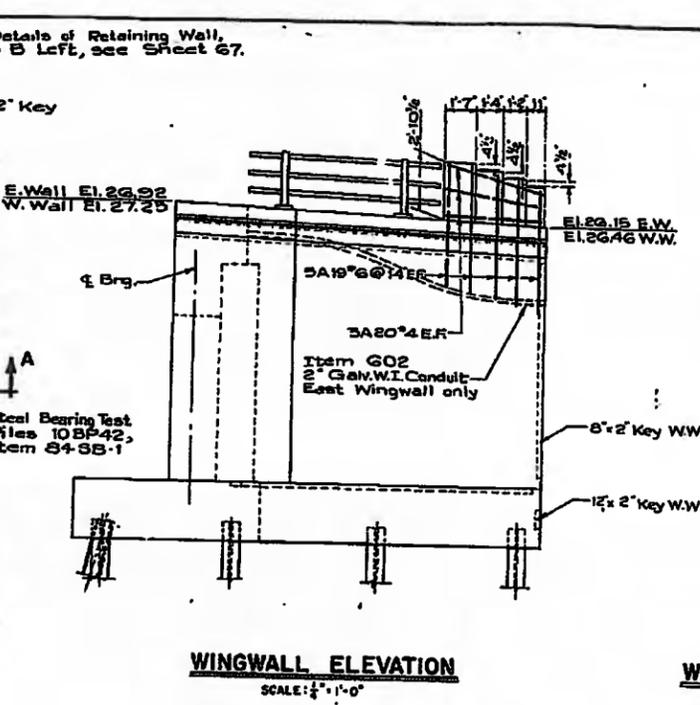
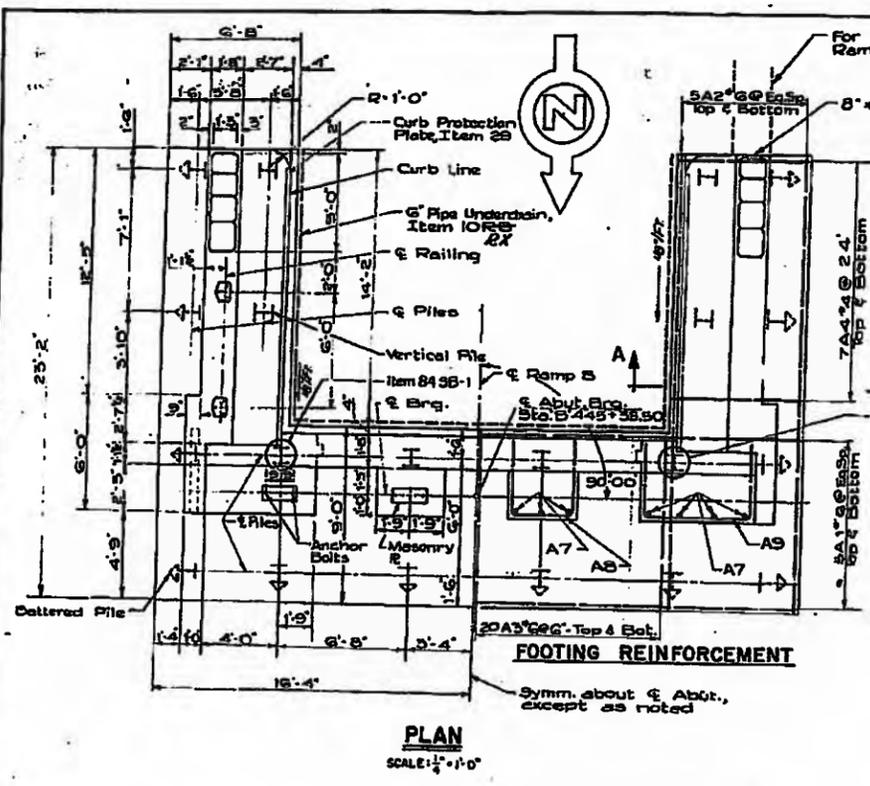
Designed by P. Grubers
 Traced by A. Stump
 Checked by J. Risto

STATE OF NEW YORK - DEPARTMENT OF PUBLIC WORKS
 CITY OF BUFFALO
 SCAJAUQUADA CREEK EXPRESSWAY - SECTION I
 ROADWAY LIGHTING
 STA. 463+00 TO STA. 481+50
 PREPARED and RECOMMENDED:
William H. McFarland N.Y.S.P.E. LIC. NO. 20193 DATE 11-26-58
 WILLIAM H. McFARLAND ENGINEER

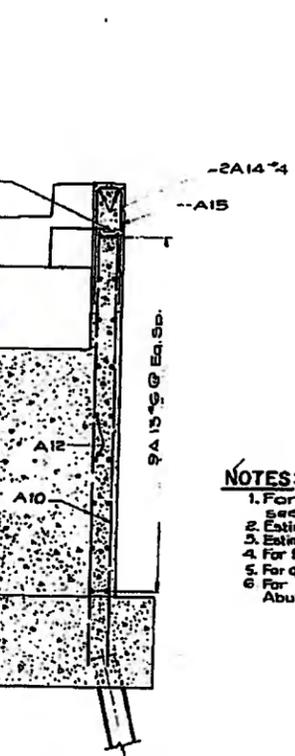
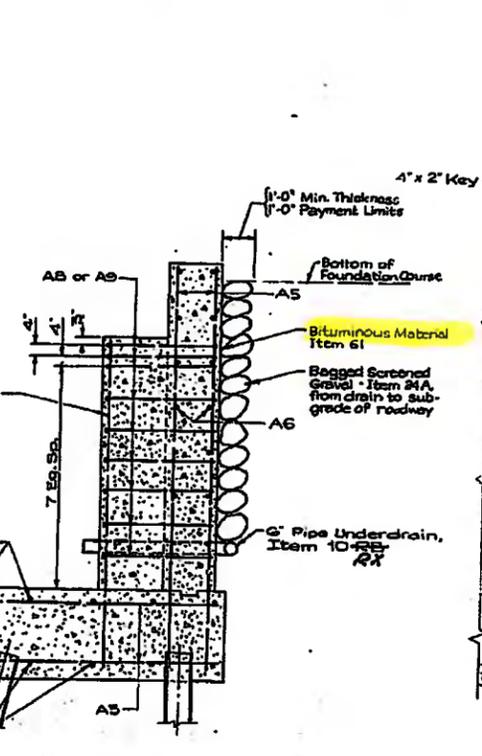
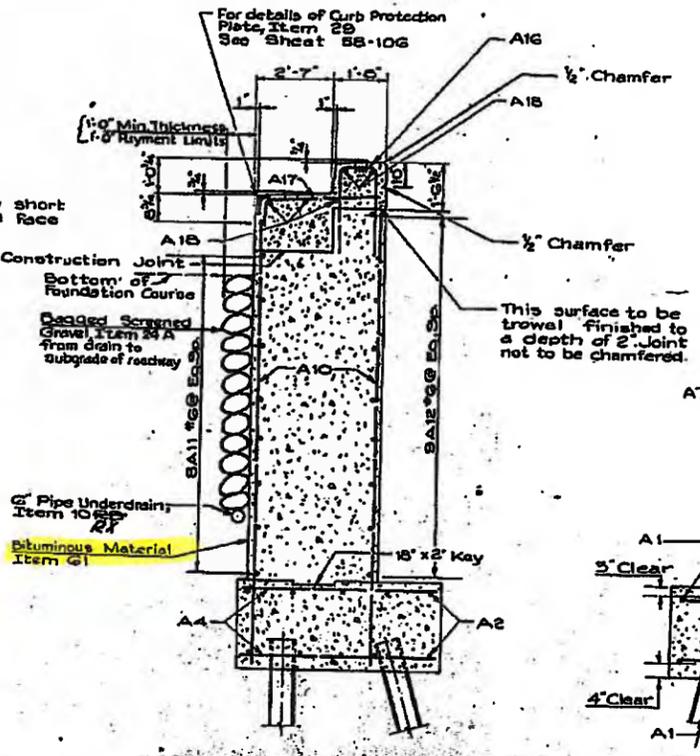
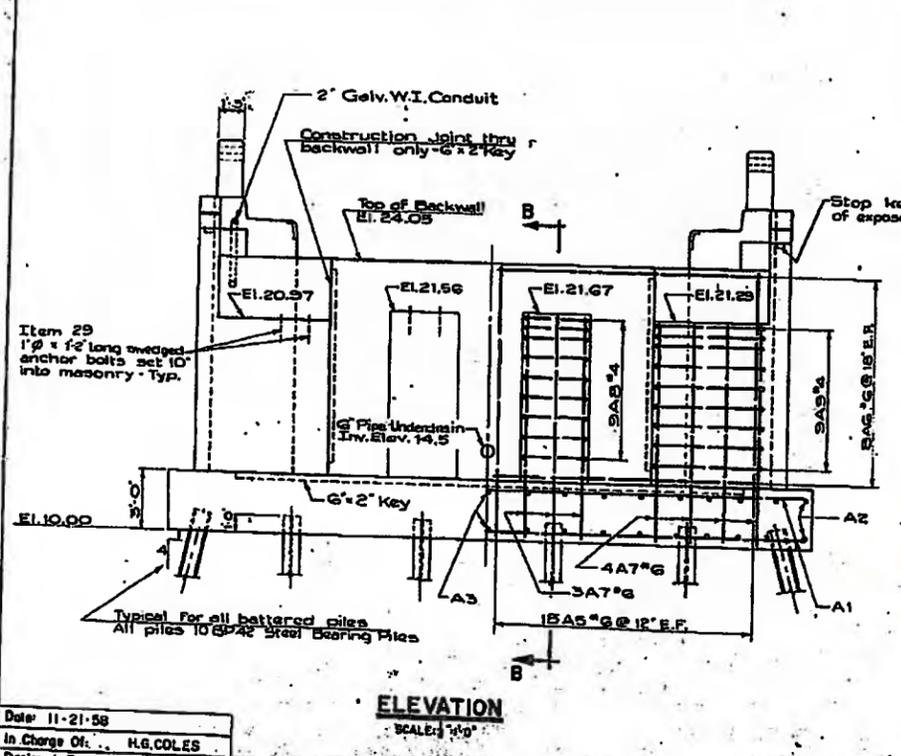


FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	NY	0-1087 (5)		58R	202

CITY OF BUFFALO - SCAJAGUADA CREEK EXPRESSWAY
 NIAGARA THRUWAY - DELAWARE AVE.
 SECTION
 NIAGARA THRUWAY INTERCHANGE TO GRANT ST. INTERCHANGE



BAR SCHEDULE - ABUTMENT 'B'									
MARK	SIZE	TYPE	NO.	B	C	LENGTH	TOT. WT.	LOCATION	
A1	#6	Str.	10			32'-0"	481	Ftg. long top & bottom	
A2	#6		20			22'-8"	681	WW Ftg. long top & bottom	
A3	#6		78			8'-6"	996	Ftg. transv top & bottom	
A4	#4		28			6'-5"	117	WW Ftg. transv top & bottom	
A5	#6		60			15'-5"	1,194	Backwall-verticals	
A6	#6		18			27'-6"	661	Backwall-horizontals	
A7	#6	Str.	14			10'-9"	226	Pedestals-verticals	
A8	#4	Str.	18	3'-0"	3'-6"	10'-0"	120	Interior Ped. horiz.	
A9	#4	Str.	18	5'-5"	5'-6"	12'-5"	147	Facade Ped. horiz.	
A10	#6	Str.	68			14'-5"	1,155	Wingwall-verticals	
A11	#6		19			14'-6"	348	Wingwall-horiz.	
A12	#6		18			18'-0"	487	Wingwall-horiz.	
A13	#6		18			5'-6"	149	Curtain wall-horiz.	
A14	#4	Str.	4			5'-6"	15	Curtain wall-horiz.	
A15	#6	Str.	8	8'	4'-0"	8'-6"	104	Curtain wall-ties	
A16	#6	Str.	16	1'-4"	3'-0"	7'-4"	176	Parapet-ties	
A17	#4	Str.	30	3'-0"	8'	3'-8"	74	Curb-bars	
A18	#4	Str.	10			14'-6"	97	SW & Parapet-long.	
A19	#6	Str.	20			6'-0"	180	Pylon-verticals	
A20	#4	Str.	12			4'-5"	38	Pylon-horiz.	
TOTAL:							7,746		

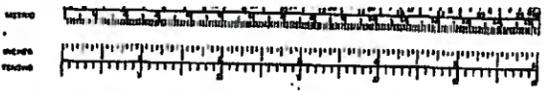


- NOTES:**
- For General Notes, see Sheet 45.
 - Estimated Length of Piles - 54'.
 - Estimated Length of Test Piles - 64'.
 - For Bar Bending Details, see Sheet 66.
 - For quantities, see Sheet 43.
 - For Embankment Details at Abutment, see sheet 194.

Date: 11-21-58	In Charge Of: H.G. COLES	Prepared and Recommended: [Signature]	DATE: 11-11-58
Designed By: F.W. CHRISMAN	Checked By: L. STANLEY-GENGEL	Checked By: C. GREGORY	Checked By: K.W. ROOT
Detailed By: H. BROCK	Checked By: W. H. McFARLAND	Checked By: [Signature]	Checked By: [Signature]
REV. NO. 1	REV. NO. 2	REV. NO. 3	

NO AS BUILT REVISIONS

ABUTMENT DETAILS
RAMP 'B'
 SCALES: AS NOTED

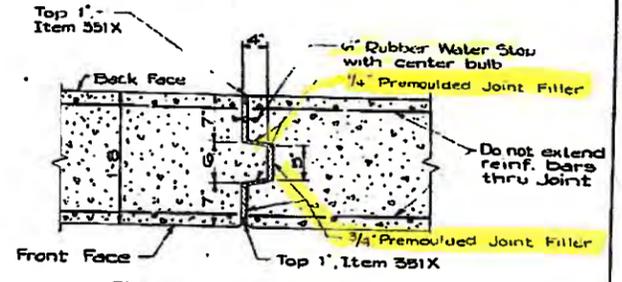


FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	0-1297(4)		64	202

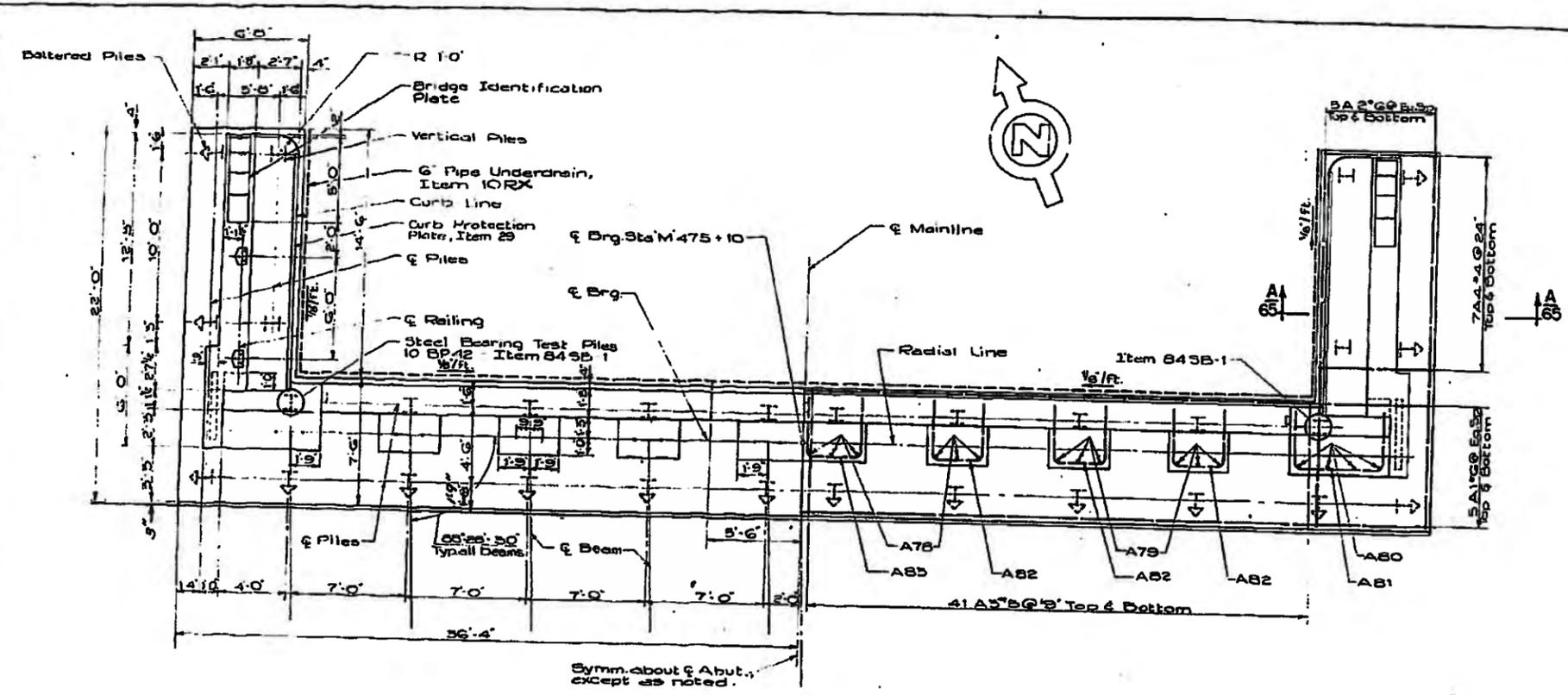
CITY OF BUFFALO
SCAJAQUADA CREEK EXPRESSWAY
NIAGARA THRUWAY - DELAWARE AVE
SECTION I
NIAGARA THRUWAY INTERCHANGE TO GRANT ST INTERCHANGE

NOTES:

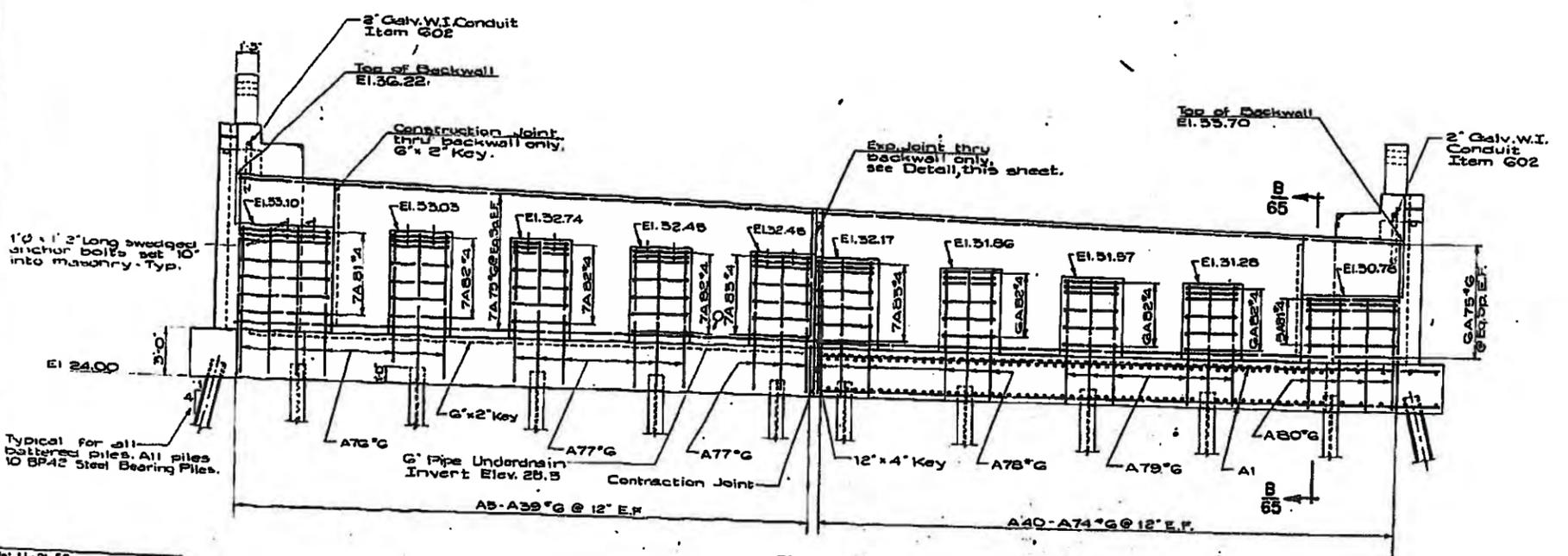
- 1 For General Notes, see Sheet 45.
- 2 This sheet to be used in conjunction with Sheet 60.
- 3 Estimated Length of Piles - 100'
- 4 Estimated Length of Test Piles - 110'
- 5 The contractor's attention is directed to the poor soil condition which exists at the abutment site. In order to minimize settlement the embankment will be constructed to full height and width under separate contract. This fill shall be consolidated in a manner satisfactory to the Deputy Chief Engineer (Bridges). The fill shall remain in place a minimum of one month and such additional time as the Deputy Chief Engineer (Bridges) shall direct prior to excavation for pile driving operations. Such excavation shall be paid for at unit price bid for Item 5.
- 6 For Detail of Roadway Joint at Abutment, see Sheet 137.
- 7 For Quantities, see Sheet 44.
- 8 For Embankment Details at Abutment, see Sheet 194.



EXPANSION JOINT DETAIL
SCALE: 1"=1'-0"



PLAN
SCALE: 1"=10'



ELEVATION
SCALE: 1"=10'

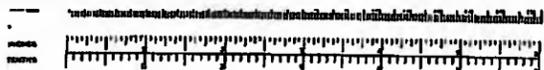
AS BUILT REVISIONS

Widen Footing

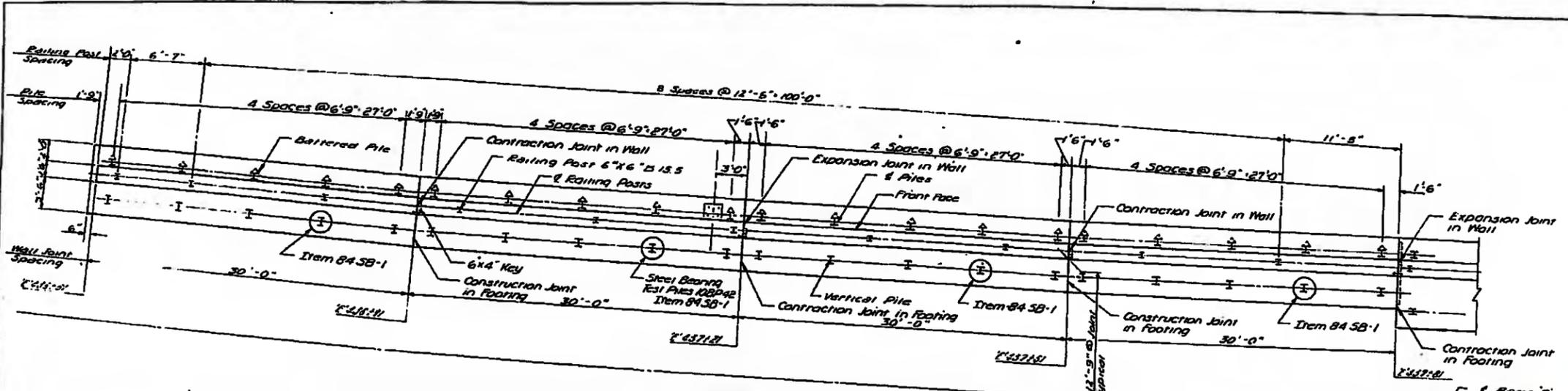
ABUTMENT DETAILS
MAINLINE

SCALE: AS NOTED

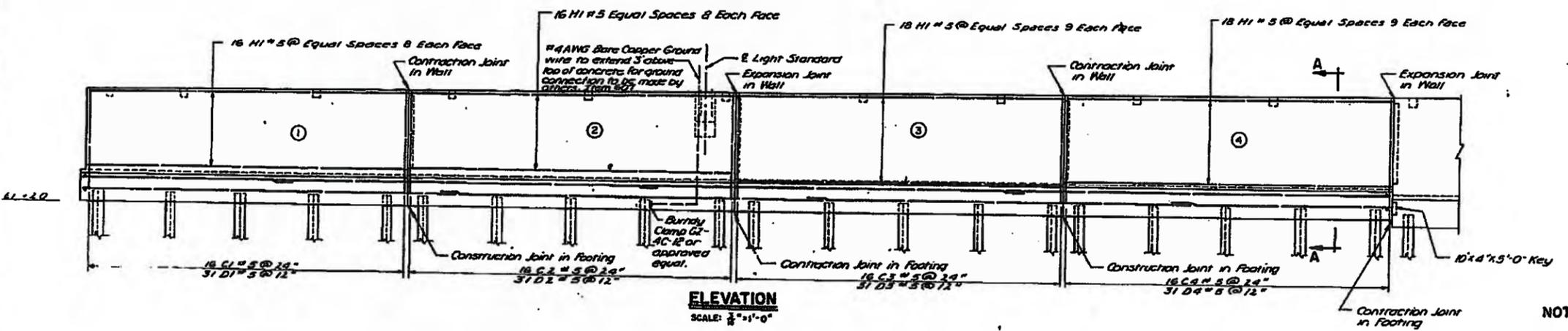
Date: 11-21-58	PREPARED and RECOMMENDED	Rev.No.1	Rev.No.2	Rev.No.3
In Charge Of: H.G. COLES	WILLIAM H. Mc FARLAND			
Designed By: F.W. CHRISMAN	ENGINEER			
Detailed By: H. BROCK				
Checked By: L.H. STANLEY				
Traced By: C. GREGORY				
Checked By: K.W. ROOT				



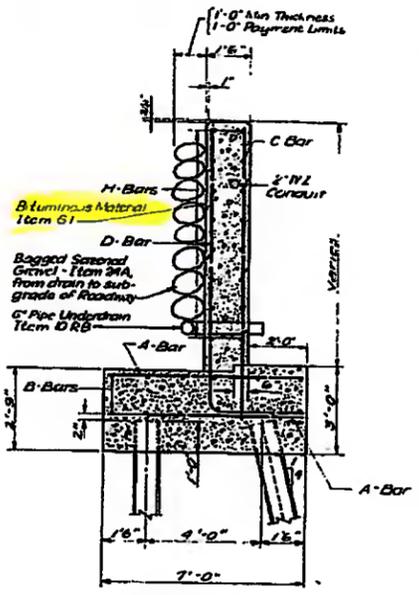
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-108714		71R	202
CITY OF BUFFALO SCAJAQUADA CREEK EXPRESSWAY NIAGARA THRUWAY - DELAWARE AVE					
SECTION 1 NIAGARA THRUWAY INTERCHANGE TO GRANT ST. INTERCHANGE					



PLAN
SCALE: 1/8" = 1'-0"

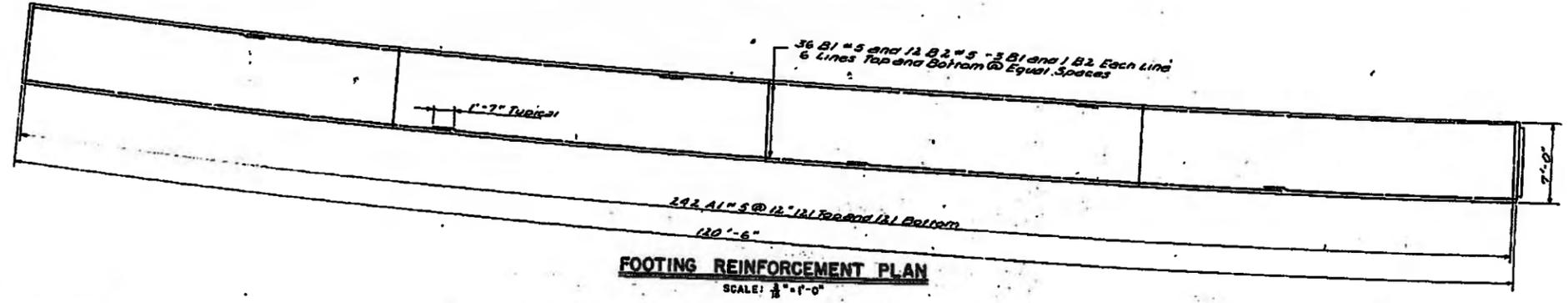


ELEVATION
SCALE: 3/8" = 1'-0"



SECTION A-A
TYPICAL FOR MONOLITH 1, 2, 3, 8, 4
SCALE: 3/8" = 1'-0"

- NOTES:**
- 1 For Beam Type Guide Railing Details, see Standard Sheet 30-17 R1.
 - 2 For Reinforcing Bar Schedule, see Sheet 7A.
 - 3 For Bar Bending Details, see Sheet 66.
 - 4 All Piles shall be 10B142 Steel Bearing Piles.
 - 5 Estimated Length of Piles = 35'.
 - 6 Estimated Length of Test Piles = 45'.
 - 7 For Wall Expansion and Contraction Joint Details, see Sheet 7A.
 - 8 For General Notes, see sheet 45.



FOOTING REINFORCEMENT PLAN
SCALE: 3/8" = 1'-0"

Date: 11-21-58	In Charge Of: H.G. COLES	Designed By: E.G. PICCIANO	Checked By: F.W. CHRISMAN	Traced By: E. DARLING-D. ROLLO	Checked By: K.W. ROOT
	PREPARED and RECOMMENDED	WILLIAM H. McFARLAND	ENGINEER	Rev. No. 1	Rev. No. 2
	N.Y.S. P.E. LIC. NO. 2043	DATE 11-21-58		Rev. No. 3	

RETAINING WALL DETAILS
SUPERSEDED BY SHEET 71R
RAMP 'E' LEFT
SCALES: AS NOTED

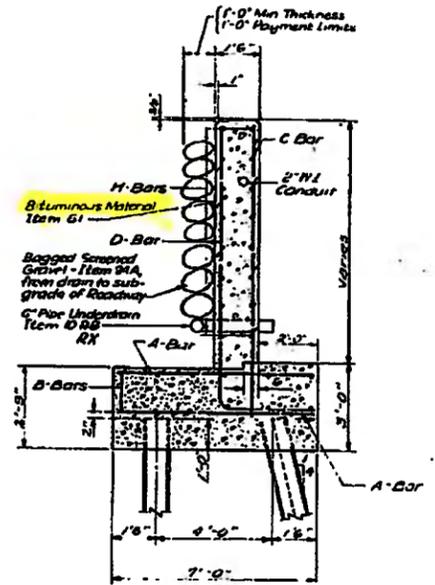
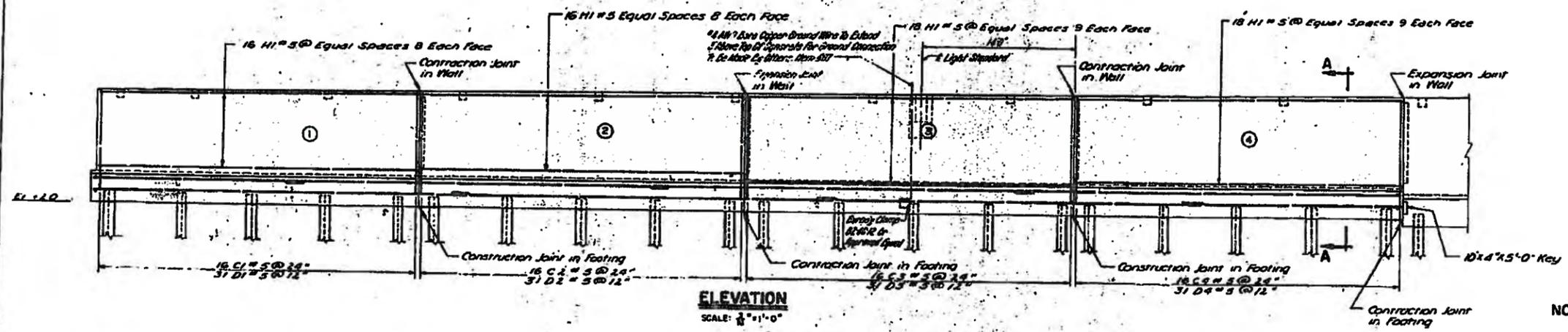
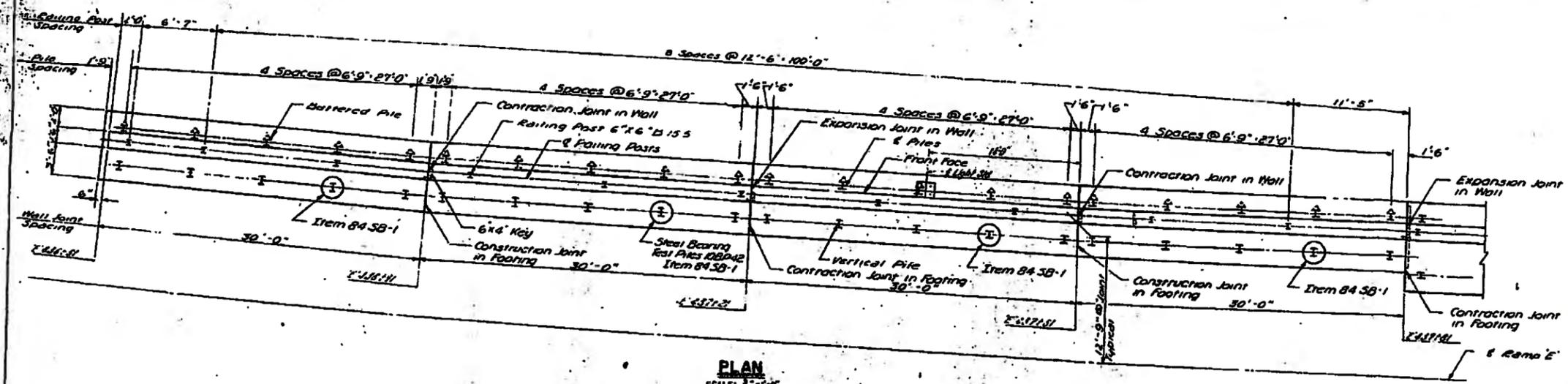


F.A.S.C.E. 59-1

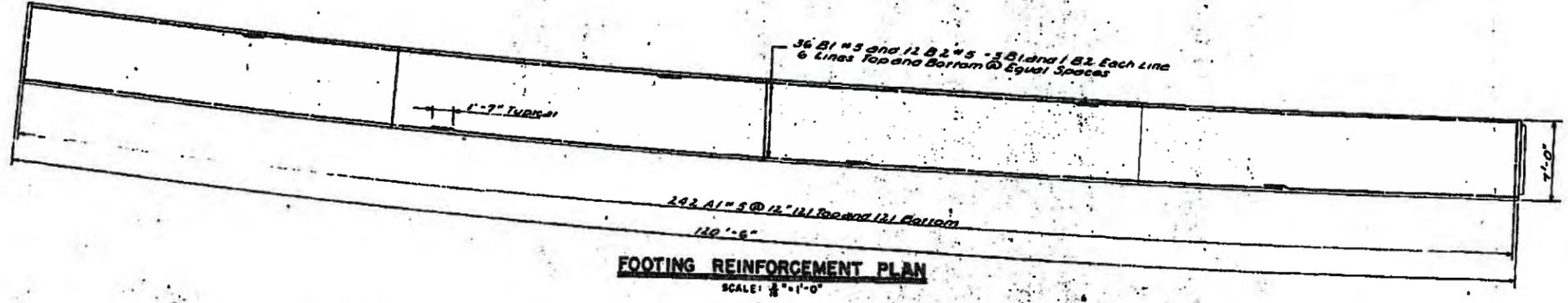
FED ROAD REG NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.			71R	200

CITY OF BUFFALO
 SCAJAGUADA CREEK EXPRESSWAY
 NIAGARA THRUWAY - DELAWARE AVE
 SECTION I
 NIAGARA THRUWAY INTERCHANGE TO GRANT ST INTERCHANGE

MF 91 FIR



- NOTES:**
- 1 For Beam Type Guide Railing Details, see Standard Sheet 59-17 R1.
 - 2 For Reinforcing Bar Schedule, see Sheet 74.
 - 3 For Bar Bending Details, see Sheet 66.
 - 4 All piles shall be DBP42 Steel Bearing Piles.
 - 5 Estimated Length of Piles = 35'.
 - 6 Estimated Length of Rest Piles = 45'.
 - 7 For Wall Expansion and Contraction Joint Details, see Sheet 70.
 - 8 For General Notes, see sheet 45.

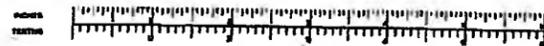


NEW YORK STATE DEPARTMENT OF PUBLIC WORKS
 DIVISION OF CONSTRUCTION
 Approved: Oct 16 1958
 JOHN G. RAYMOND
 First Deputy Chief Engineer

Date: 11-21-58	Prepared and Recommended by: WILLIAM H. McFARLAND	NY S.P.E.L.C. NO. 2043	DATE: 11-21-58
In Charge Of: H. COLES	Checked by: E. DARLING - D. ROLLO	Engineer	
Designed By: EG PICCIANO	Checked by: K.W. ROOT		
Detailed By: H. TETZ - H. BROCK			

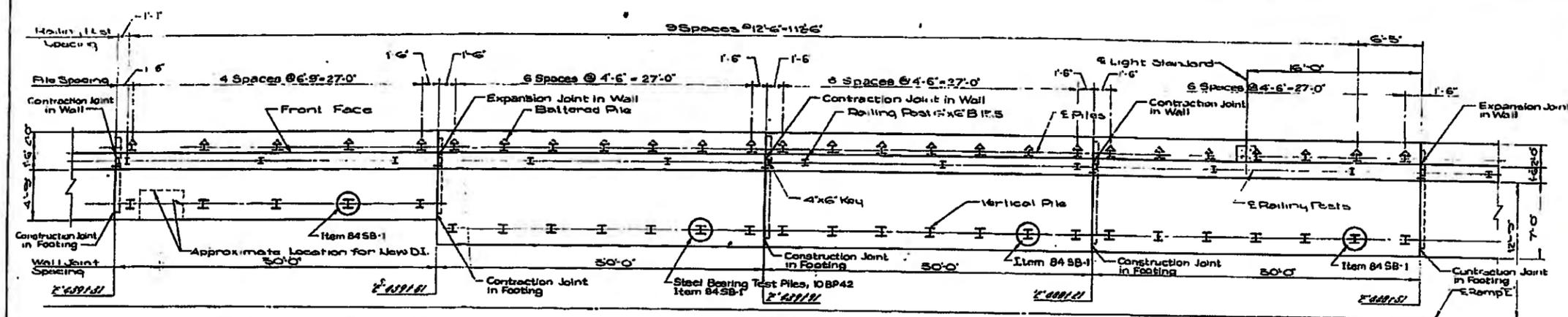
FIELD CHANGE

AS BUILT REVISIONS
RETAINING WALL DETAILS
RAMP 'E' LEFT
 SCALES AS NOTED



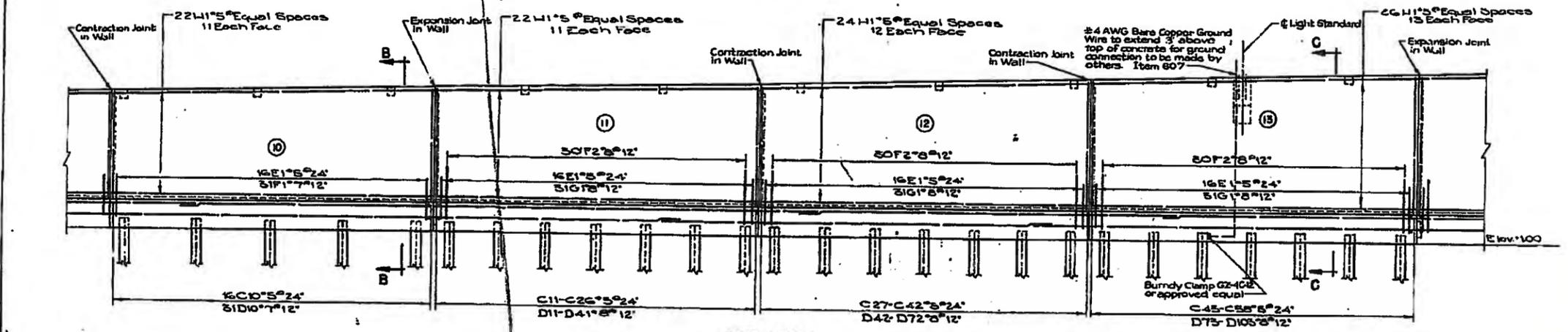
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-1087(4)		73R	202

CITY OF BUFFALO
SCAJAQUADA CREEK EXPRESSWAY
NIAGARA THRUWAY - DELAWARE AVE.
SECTION I
NIAGARA THRUWAY INTERCHANGE TO GRANT ST. INTERCHANGE

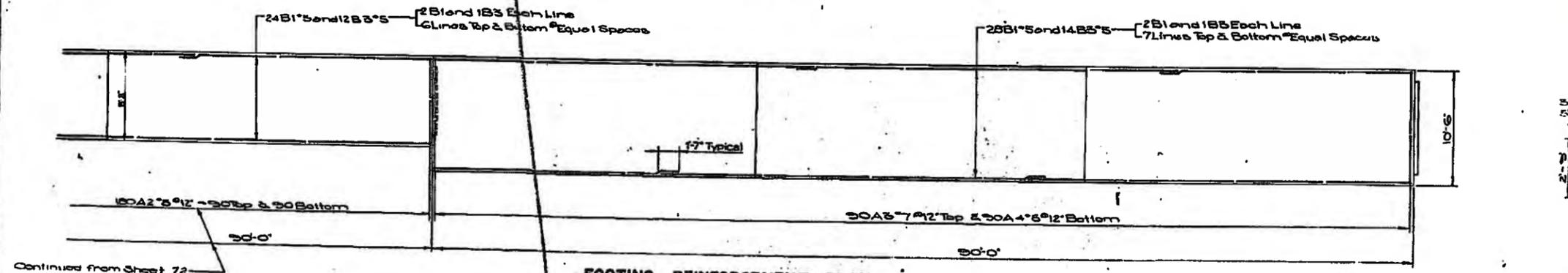


PLAN
SCALE: 1/8" = 1'-0"

NOTE:
The Contractor's attention is called to the new drop inlet as shown above. Place 1" R.F. between new D.I. and footing. Bend longitudinal footing steel in field.



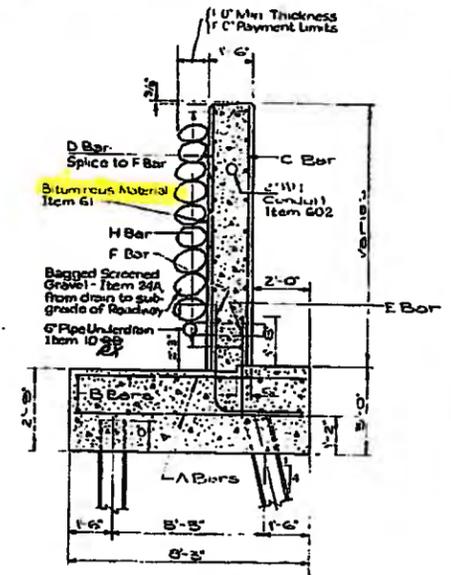
ELEVATION
SCALE: 1/8" = 1'-0"



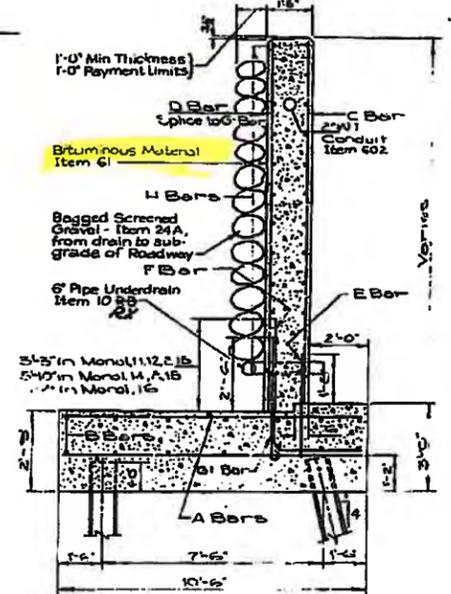
FOOTING REINFORCEMENT PLAN
SCALE: 1/8" = 1'-0"

Date: 11-21-58	PREPARED and RECOMMENDED
In Charge Of: H.G. COLES	W.H. McFarland
Designed By: F.G. PICCIANO	N.Y.S.P.E. LIC. NO. 20143 DATE 11-21-58
Detailed By: H. TETZ - H. BROCK	ENGINEER
Checked By: L. H. STANLEY	WILLIAM H. McFARLAND
Traced By: E. DARLING - R. KOCIK	Rev. No. 1
Checked By: K.W. ROOT	Rev. No. 2

- NOTES:**
1. For Beam Type Guide Rolling Details, see Std. Sheet 36-17R1.
 2. For Reinforcing Bar Schedule, see Sheet 74.
 3. For Bar Bending Details, see Sheet 66.
 4. All piles shall be 10 BP 42 Steel Bearing Piles.
 5. Estimated Length of Piles = 38'.
 6. Estimated Length of Test Piles = 48'.
 7. For Wall Expansion and Contraction Joint Details, see Sheet 70.
 8. For General Notes, see Sheet 45.



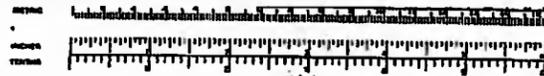
SECTION B-B
TYPICAL FOR MONOLITHS 5,6,7,8,9,10, & 17
SCALE: 1/8" = 1'-0"



SECTION C-C
TYPICAL FOR MONOLITHS 11-16
SCALE: 1/8" = 1'-0"

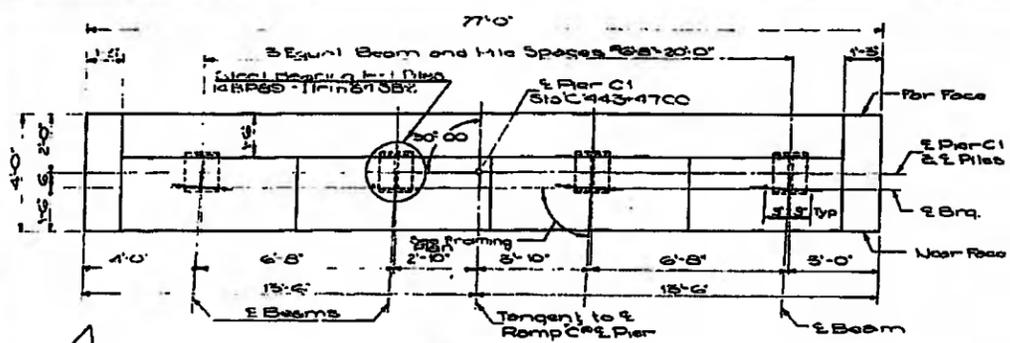
RETAINING WALL DETAILS
RAMP 'E' LEFT
SCALE: AS NOTED

NO AS BUILT REVISIONS

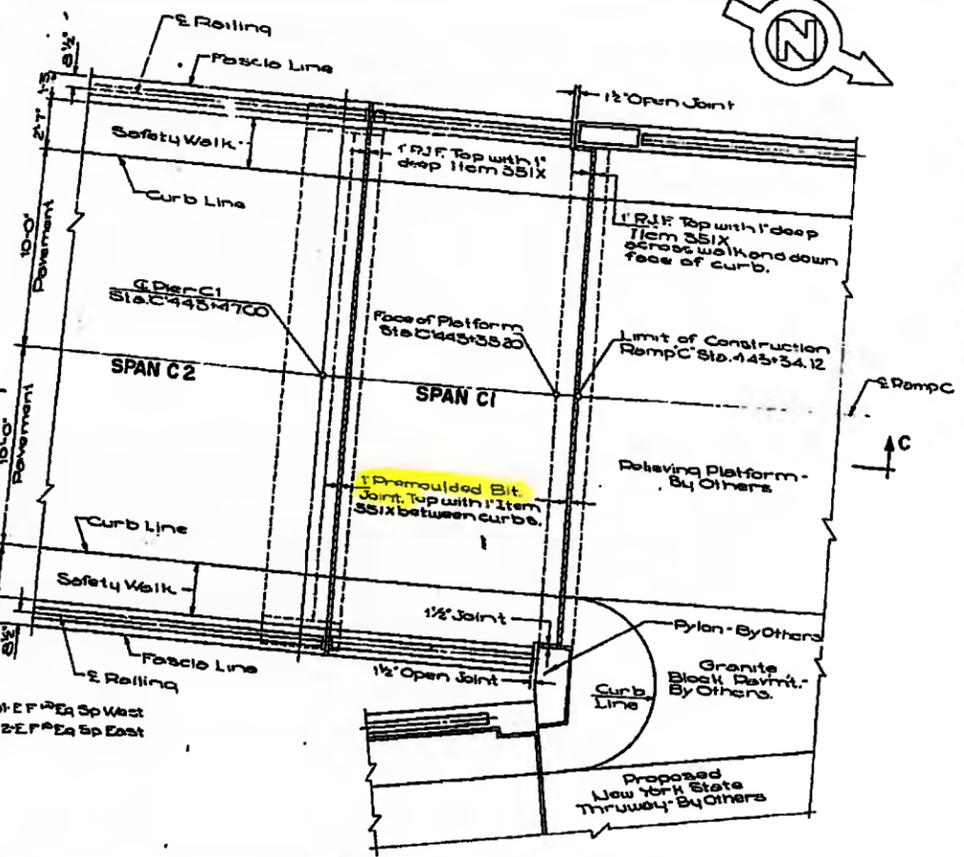


FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	0-1087(4)		81 R	202
CITY OF BUFFALO SCAJAQUADA CREEK EXPRESSWAY NIAGARA THRUWAY - DELAWARE AVE					
SECTION I NIAGARA THRUWAY INTERCHANGE TO GRANT ST INTERCHANGE					

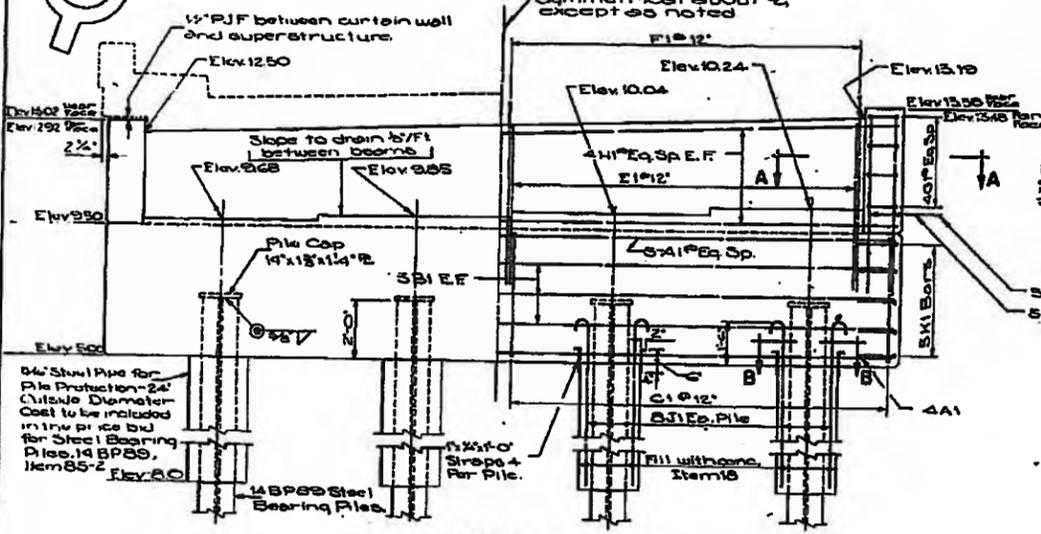
BAR SCHEDULE											
MARK	SIZE	TYPE	NO.	A	B	C	D	G	LENGTH	TOT. WT.	LOCATION
A1	#7	Str.	5						2'-6"	487	
B1	#6	Str.	6						26'-6"	232	
C1	#4	IX	27	4 1/2	3'-8"	1'-2"		1'-11"	16'-8"	276	Pile Cap
D1	#6	Str.	7						5'-6"	58	
E1	#6	Str.	25						6'-0"	65	
F1	#6	I	25	6'-6"	2'-0"				8'-6"	319	
G1	#6	II	8	3'-8"	1'-1"				8'-3"	59	Curtain Wall
H1	#6	Str.	8						26'-6"	318	Back Wall
J1	#7	II	32	10'	14'-4"				15'-2"	532	Pile Protec
K1	#6	II	10	3'-8"	1'-3"				7'-2"	108	Pile Cap
TOTAL:									3186		



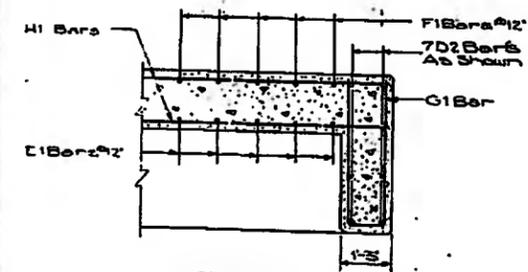
PIER PLAN
SCALE: 1/2"=1'-0"



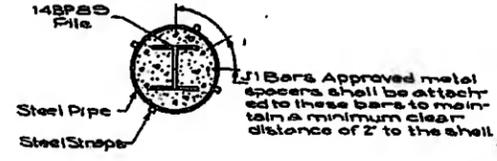
PLAN
SCALE: 1/2"=1'-0"



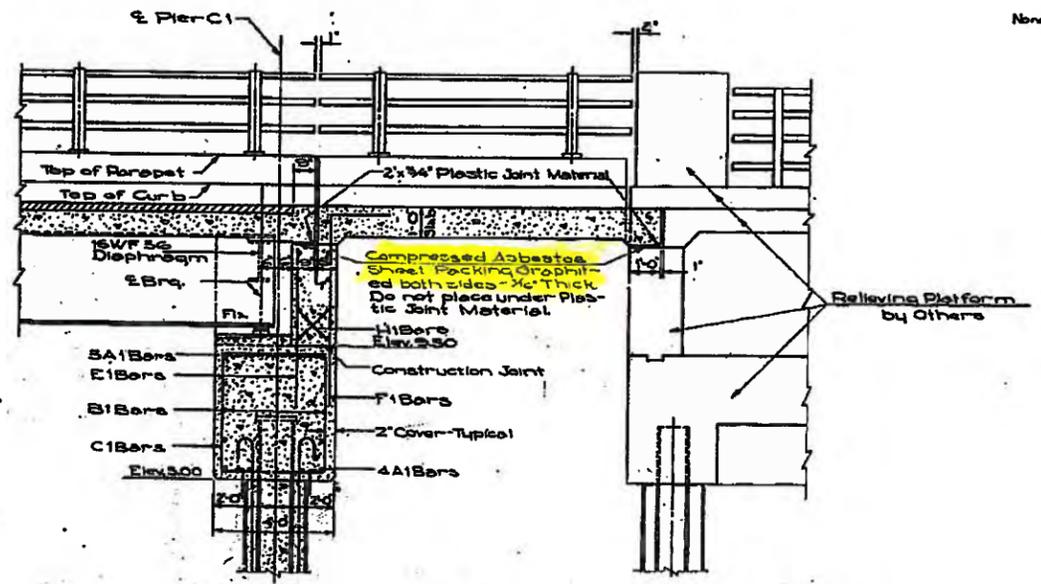
**ELEVATION
LOOKING BACK ON STATIONS**
SCALE: 1/2"=1'-0"



SECTION A-A
SCALE: 1/2"=1'-0"



SECTION B-B
SCALE: 1/2"=1'-0"



SECTION C-C
SCALE: 1/2"=1'-0"

- NOTES:**
- 1 For General Notes see sheet 45.
 - 2 For Slab reinforcement in Span C1, see sheet 14B.
 - 3 For Detailing Spacing in Span C1, see sheet 14B.
 - 4 Piles for Pier C1 shall be 14 BPSB steel bearing piles. Spacing Length of Piles = 8' 0" 27' None exceeding length of Test Pile 34'.
 - 6 For Bar Bending Details, see sheet 56.

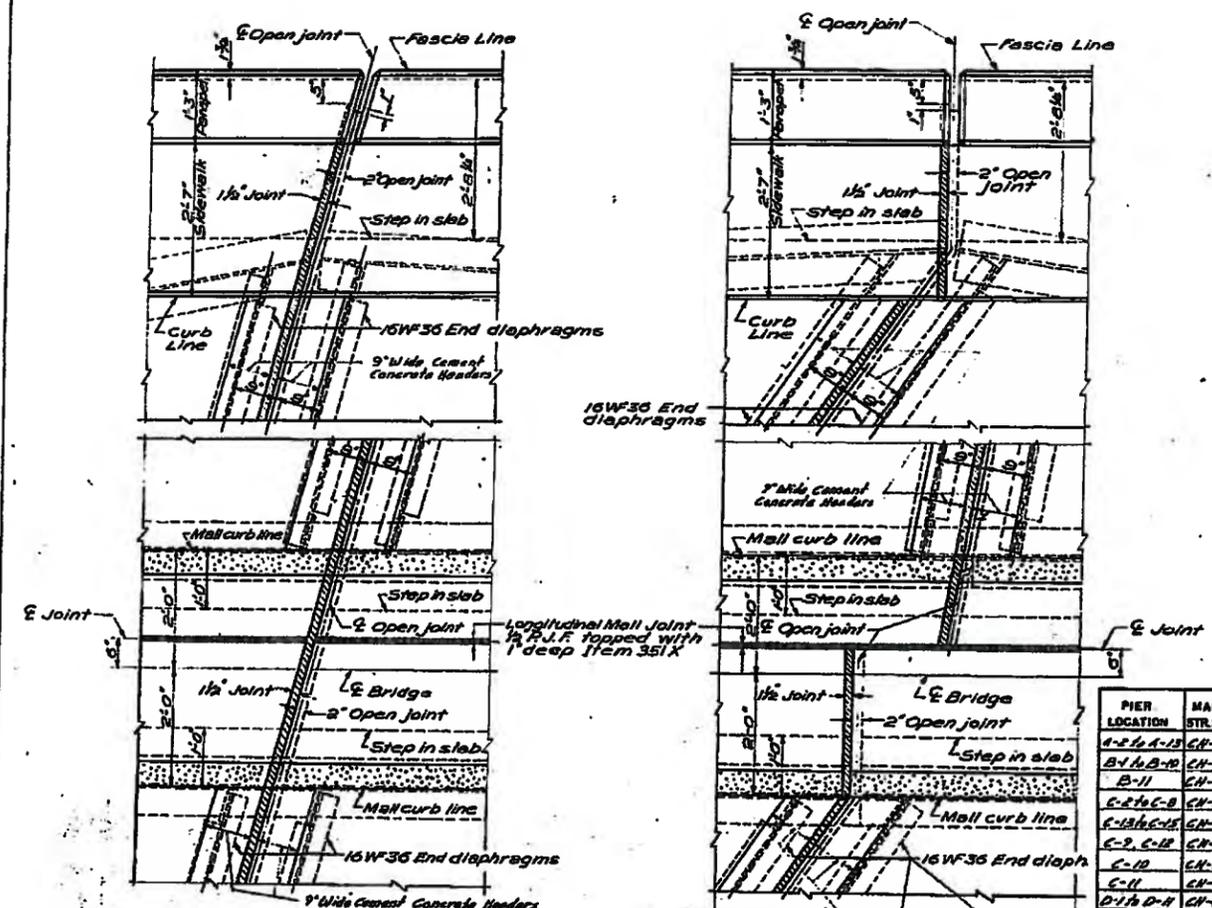
- PILE PROTECTION CONSTRUCTION PROCEDURE**
- 1 Drive Piles
 - 2 For existing ground higher than elevation -50, drive pile protection steel pipe and remove enclosed soil.
 - 3 For existing ground lower than elevation -50, place pile protection steel pipe and plug bottom.
 - 5 BPSB reinforcement
 - 4 place concrete.

As Built Revisions
Delete Test Piles
Length of Piles

PIER C1 & SPAN C1 DETAILS
SCALE: AS NOTED

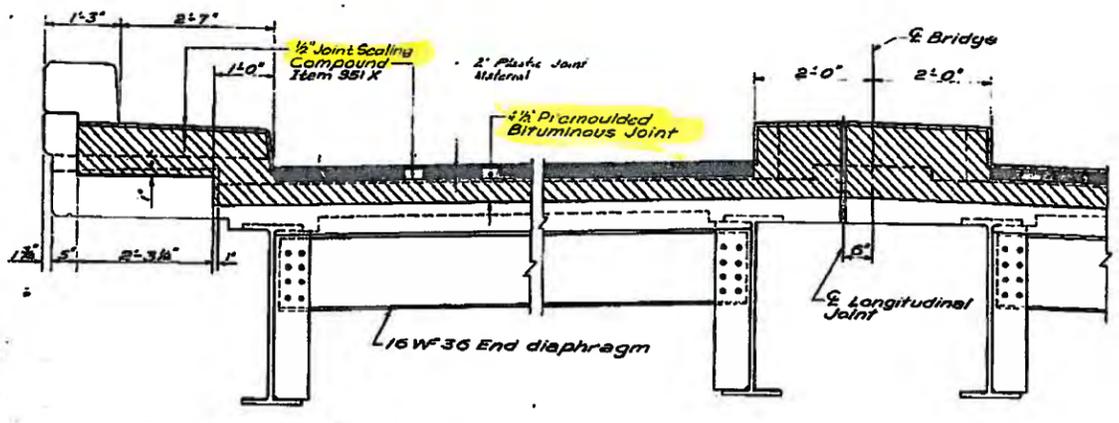
Date: 11-21-58	PREPARED and RECOMMENDED		
In Charge Of: H.G. COLES	WILLIAM H. McFARLAND		
Designed By: J. ROOK	N.Y.S.P.L.C. NO. 20143 DATE 11/21/58		
Detailled By: D. STEWART	ENGINEER		
Checked By: J. ROOK-HUSTEELE	Rev. No. 1	Rev. No. 2	Rev. No. 3
Traced By: E. DARLING-R. KOCIK			
Checked By: K.W. ROOT			

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-1087(4)		136R	202
CITY OF BUFFALO SCAJAUQUA CREEK EXPRESSWAY NIAGARA THRUWAY - DELAWARE AVE. SECTION 1 NIAGARA THRUWAY INTERCHANGE TO GRANT ST. INTERCHANGE					



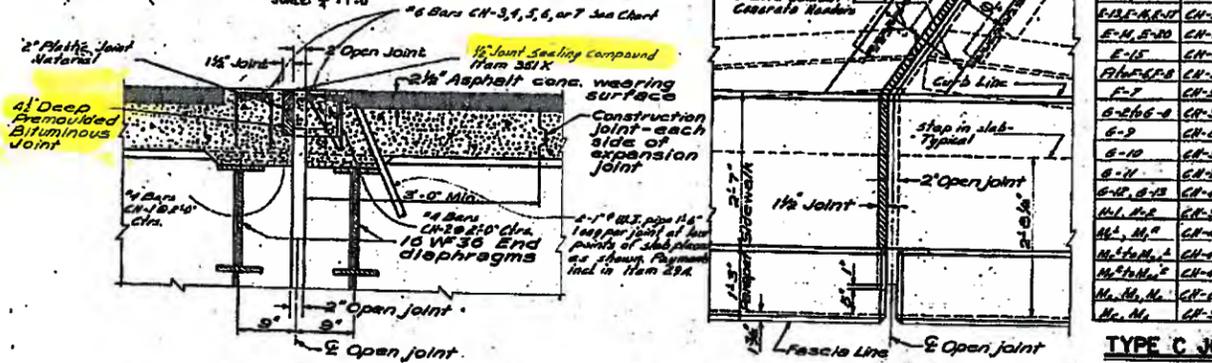
PLAN - SKEWS 0°-20°
SCALE: 1/2" = 1'-0"

PLAN - SKEWS OVER 20°
SCALE: 1/2" = 1'-0"



TRANSVERSE SECTION ALONG OPEN JOINT
TYPE C JOINT
SCALE: 1/2" = 1'-0"

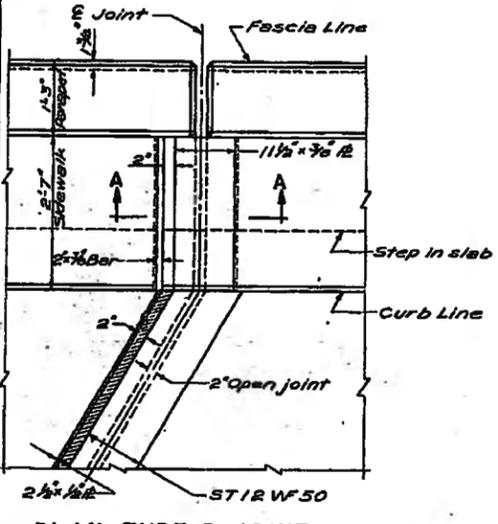
NOTE:
Section shown for spans with windlots.
Details are similar for spans without windlots.



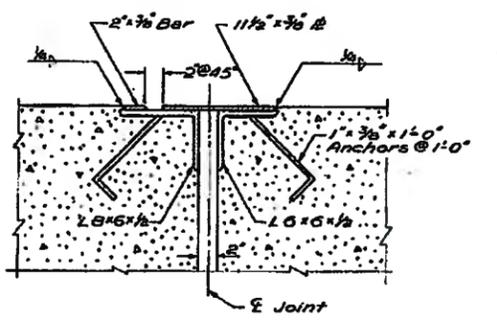
LONGITUDINAL SECTION THRU ROADWAY
TYPE C JOINT
SCALE: 1" = 1'-0"

PIER LOCATION	MARK	NO. PER PIER	TOTAL	NO. BENT BARS CH-1 AND CH-2 PER PIER	TOTAL
A-2, A-13	CH-1	4	40	14 Each	160
B-1, B-10	CH-3	4	40	10 Each	100
B-11	CH-6	8	8	21 "	20
C-2 to C-8	CH-3	4	20	10 Each	70
C-13 to C-15	CH-3	4	16	10 "	30
C-7, C-16	CH-5	4	8	11 "	22
C-10	CH-7	4	4	14 "	16
C-11	CH-6	4	4	13 "	13
D-1 to D-4	CH-4	4	44	14 Each	154
E-1 to E-12	CH-3	4	48	10 Each	160
E-13, E-19	CH-3	4	8	10 "	20
E-12 to E-18	CH-5	4	12	11 "	33
E-14, E-20	CH-7	4	8	15 "	30
E-15	CH-6	4	4	13 "	13
F-1 to F-8	CH-3	4	20	10 Each	70
F-7	CH-5	4	4	10 "	10
G-2 to G-8	CH-3	4	20	10 Each	70
G-9	CH-6	4	8	21 "	24
G-10	CH-5	4	8	12 "	12
G-11	CH-7	4	4	15 "	15
G-12, G-13	CH-4	4	8	11 "	20
H-1, H-2	CH-3	4	8	10 Each	20
H-3, H-4	CH-4	4	8	10 Each	20
H-5 to H-8	CH-4	4	24	11 "	252
H-9 to H-12	CH-4	4	24	11 "	252
H-13, H-14	CH-6	4	24	21 "	72
H-15, H-16	CH-3	4	16	10 "	36

TYPE C JOINT BAR CHART



PLAN - TYPE B JOINT
SCALE: 1/2" = 1'-0"



SECTION A-A
SCALE: 1/2" = 1'-0"

MARK	SIZE	LENGTH	NO.	LOCATION
CH-1	1/2"	1'-0"	1700	Bar in Conc. Headers Trans.
CH-2	1/2"	1'-0"	1700	Bar in Conc. Headers Trans.
CH-3	1/2"	1'-0"	224	Bar in Conc. Headers Trans.
CH-4	1/2"	1'-0"	224	Bar in Conc. Headers Trans.
CH-5	1/2"	1'-0"	224	Bar in Conc. Headers Trans.
CH-6	1/2"	1'-0"	224	Bar in Conc. Headers Trans.
CH-7	1/2"	1'-0"	224	Bar in Conc. Headers Trans.
CH-8	1/2"	1'-0"	224	Bar in Conc. Headers Trans.

BAR LIST FOR HEADER REINFORCEMENT, TYPE C JOINT

NOTES:
1. For additional details of Type "B" Joint, see Standard Sheet 136R-136B.
2. For General Notes, see Sheet 136R-136A.
AS BUILT REVISIONS
Standard Sheet (in Notes)

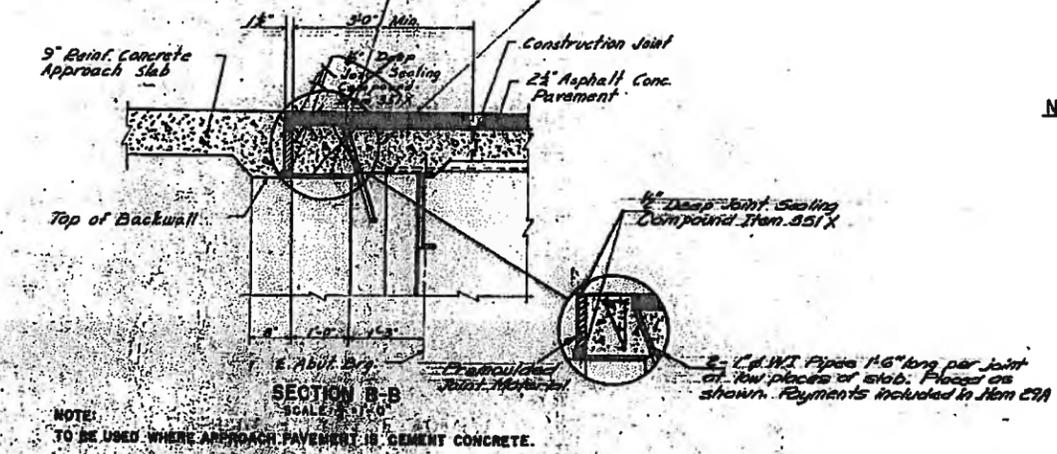
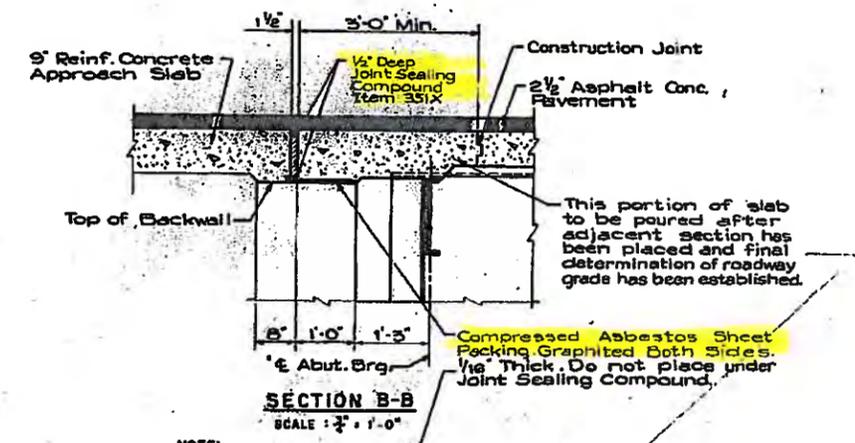
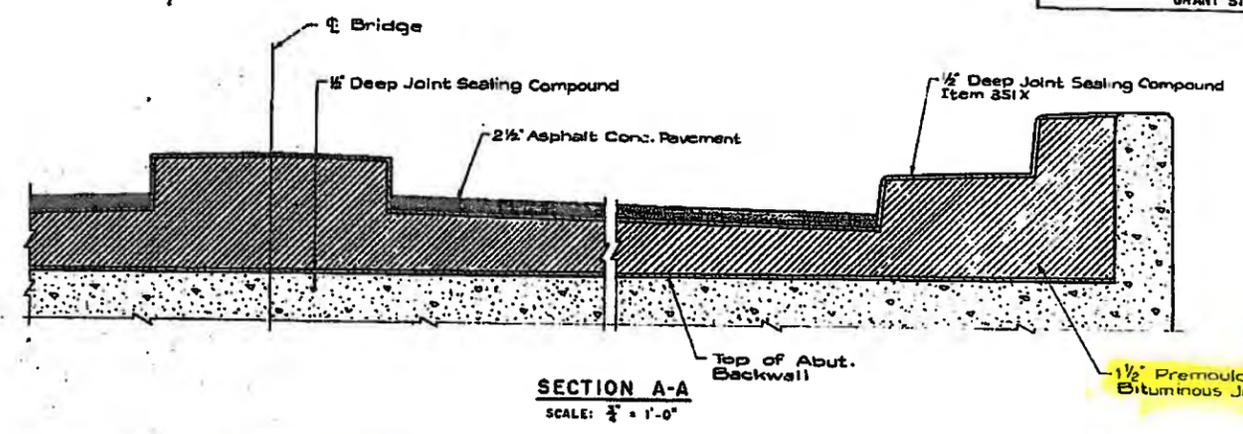
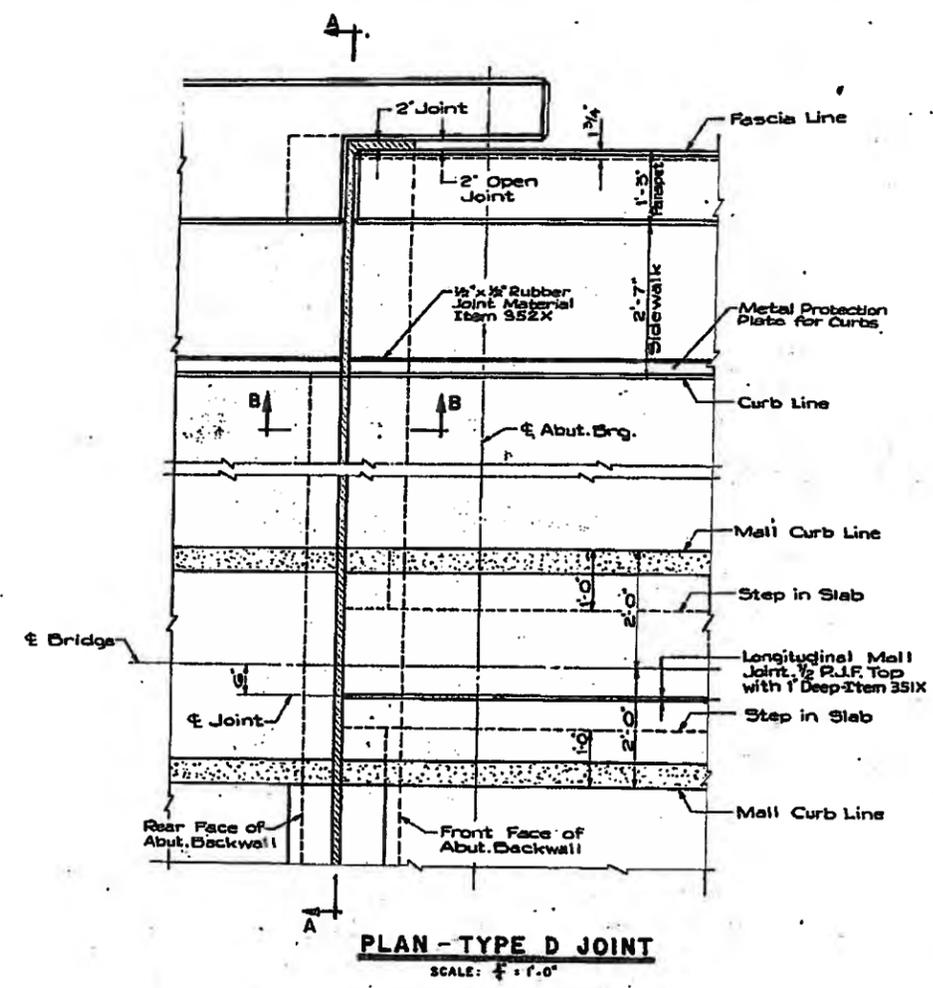
ROADWAY JOINTS - TYPES B & C
SCALE: AS NOTED

Date: 11-21-58	PREPARED and RECOMMENDED	DATE: 12/1/58
In Charge Of: H. G. COLES	WILLIAM H. McFARLAND	ENGINEER
Designed By: J. TYLKO	Rev. No. 1	Rev. No. 2
Checked By: C. C. BELLIS	Rev. No. 3	
Checked By: L. H. STANLEY		
Traced By: E. DARLING-J. TUREK		
Checked By: K. W. ROOT		



FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	U-1087(4)		137R	202

CITY OF BUFFALO
SCAJAGUADA CREEK EXPRESSWAY
NIAGARA THRUWAY - DELAWARE AVE
SECTION I
NIAGARA THRUWAY INTERCHANGE TO GRANT ST. INTERCHANGE



NOTE:
For General Notes, see Sheet 45

AS BUILT REVISIONS
Section B-B as shown

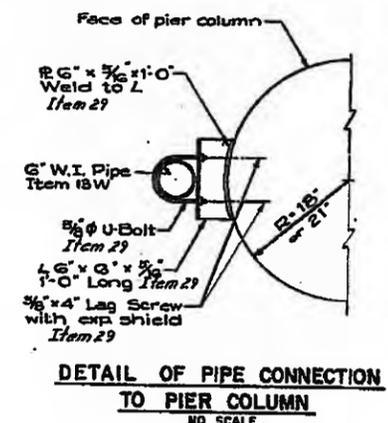
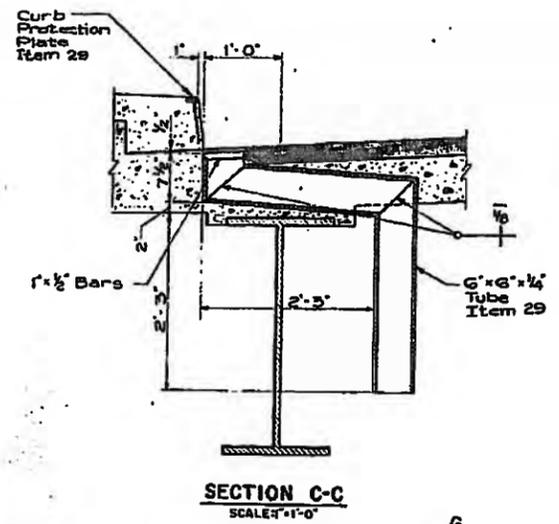
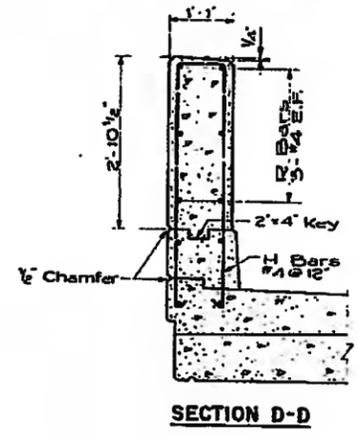
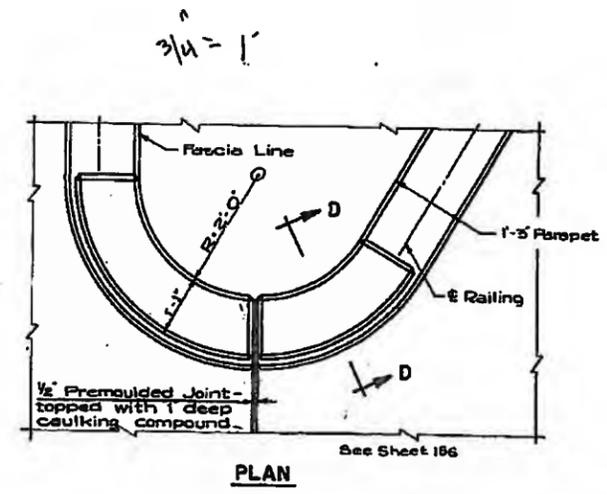
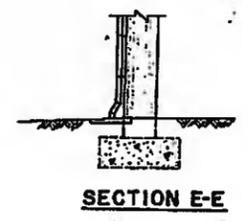
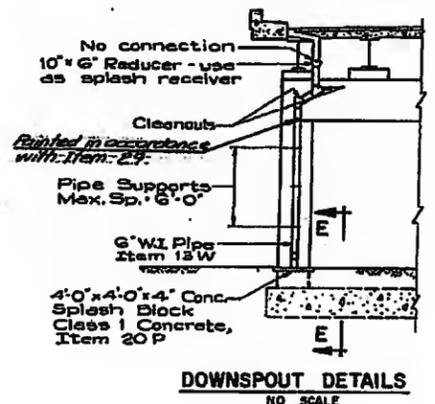
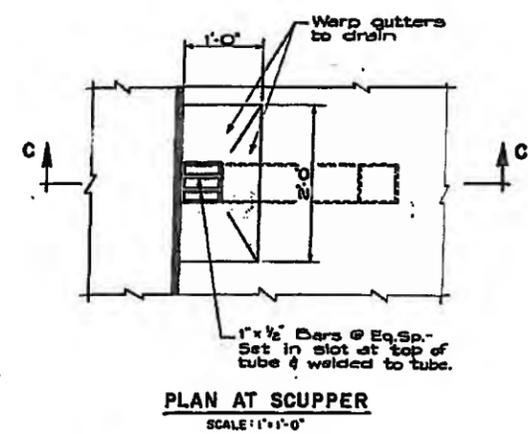
ROADWAY JOINT - TYPE D
SCALES: AS NOTED

Date: 11-21-59	PREPARED AND RECOMMENDED BY	Rev. No. 1	Rev. No. 2	Rev. No. 3
In Charge Of: H. G. COLES	WILLIAM H. McFARLAND			
Designed By: J. TYLKO	ENGINEER			
Detailed By: C. C. BELLIS				
Checked By: K. W. ROOT				
Traced By: EDARLING-C.GREGORY				
Checked By: K.W. ROOT				

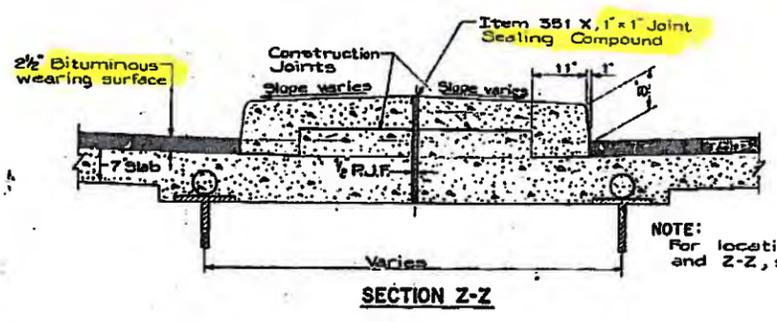
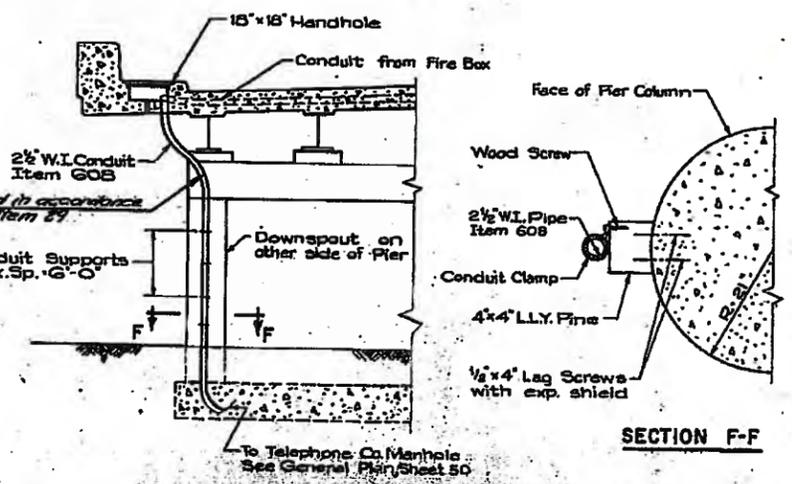
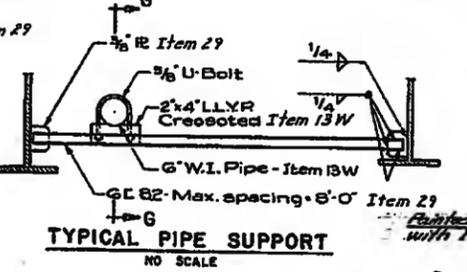
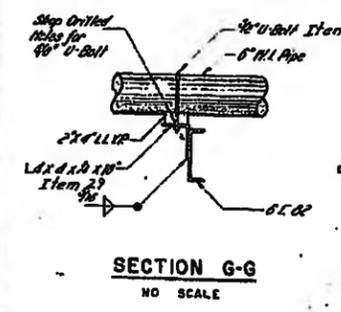
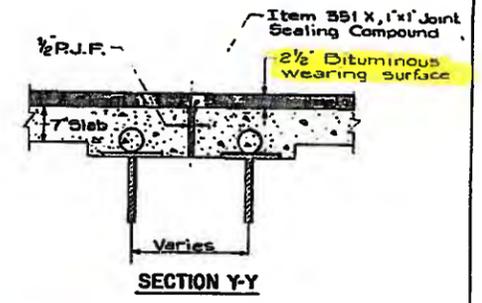
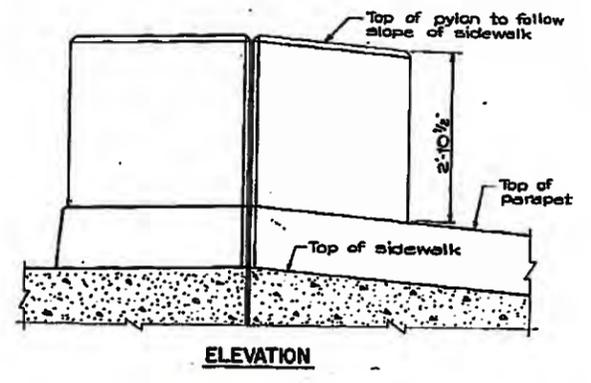


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.Y.	1-1087(A)		192 R	202

CITY OF BUFFALO
SCAJADUADA CREEK EXPRESSWAY
NIAGARA THRUWAY - DELAWARE AVE.
SECTION I
NIAGARA THRUWAY INTERCHANGE TO
GRANT ST. INTERCHANGE



- SCUPPER NOTES**
1. Deck reinforcement to be cut in field to accommodate scuppers.
 2. At all points where the scupper collector pipes cross superstructure joints, long-sleeve bolt couplings shall be installed in the collector pipes to provide for expansion & contraction.
 3. The Contractor shall be required to submit complete shop drawings for the pipe drains. These drawings are to be developed concurrently with the diaphragm details in the affected spans.



DETAILS OF PYLON AT RAMP INTERSECTION
SCALE: 3/4" = 1'-0"

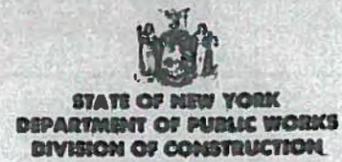
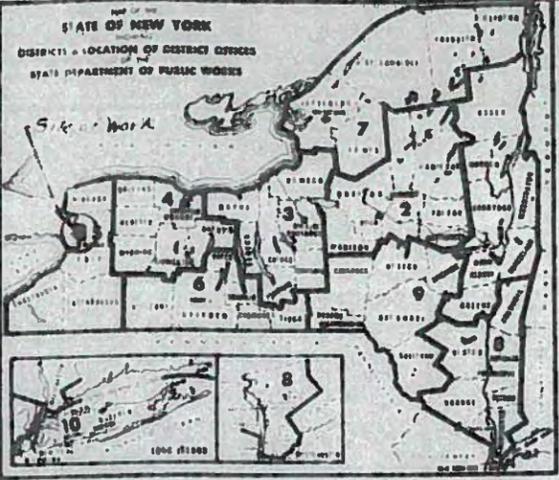
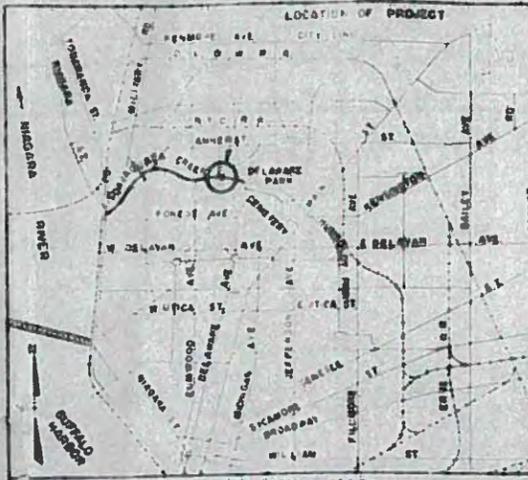
NOTE:
For General Notes, see Sheet 45.

Date: 11-21-58	PREPARED AND RECOMMENDED		
In Charge: H.G. COLES	WILLIAM H. McFARLAND		
Designed By: J. TYLKO	ENGINEER		
Detalled By: C.C. BELLIS	Rev. No. 1	Rev. No. 2	Rev. No. 3
Checked By: F.W. CHRISMAN			
Traced By: C. GREGORY			
Checked By: K.W. ROOT			

PIER M8
NO SCALE
See Sheet 171 for detailed location

AS BUILT REVISIONS
Delete Scupper Note #2
Point Downspouts & Conduit

SCUPPER & RAMP INTERSECTION DETAILS
SCALES: AS NOTED



PLANS FOR CONSTRUCTING WITH FEDERAL AID, THE
SCAJAQUADA CREEK EXPRESSWAY (at Delaware Park)
 From Station 530+00 to Station 544+00, a length of 0.11 mile in the City of Buffalo

20 SHEETS PROJECT No. U-1087 (S) CONTRACT No. F.A.S.C.E. 61-2
 ERIE COUNTY

FED. RD. DIST. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	U-1087 (S)	1 R	20

SCAJAQUADA CREEK EXPRESSWAY PEDESTRIAN OVERPASS

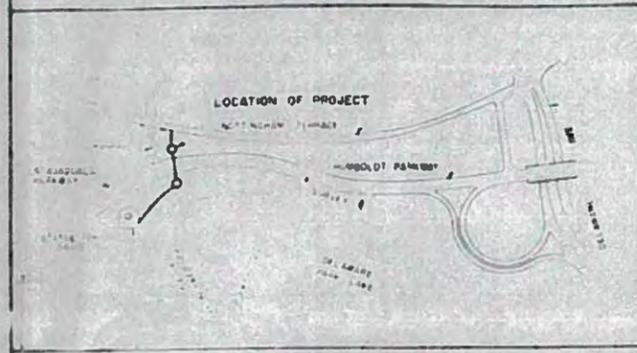
TYPE OF CONSTRUCTION
 Pedestrian Overpass, 1-Beam, 78' Span
 Reinforced Concrete Ramps 534'

STANDARD STRUCTURE SHEETS
 56-6, 59-7, 59-19, 60-41, 60-43A, 60-43B, 60-43, 60-45A, 60-105, 60-107, 60-109A, 61-41

All work contemplated under this contract to be covered by and in conformity with the specifications adopted January 2, 1957, except as modified on these plans and in the Itemized Proposal.

DATE	CONTRACTOR	ENGINEER	COST
DATED - SEPT. 18, 1961	STAMM ASSOCIATES INC. BUFFALO NY	H.N. ADAM DIST. ENG. C.T. BURR DIST. IN CHG. 1962 L. RANDOLPH 1961	TOTAL - 150,000.00
BEGIN - OCT. 12, 1961			EXTENSIVE OF ENGINEERING
COMP -			
RE'YO -			

RECORD PLAN



CITY OF BUFFALO

Approved: *Frank J. Scola*
 June 13, 1961
 MAYOR

NEW YORK STATE DEPARTMENT OF PUBLIC WORKS DIVISION OF CONSTRUCTION

Approved: *Norman H. Kraft*
 June 13, 1961
 ASST. DIST. ENGINEER

Approved: *John J. Flannery*
 July 20, 1961
 ASST. DEPUTY CHIEF ENGINEER

Approved: *Ed Ramey*
 July 20, 1961
 DEPUTY CHIEF ENGINEER (BRIDGES)

Approved: *Robert W. Sweet*
 July 20, 1961
 CHIEF ENGINEER

DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS

Approved: _____
 DIVISION ENGINEER

INDEX	
SHEET NO.	DESCRIPTION
1	Notes and Estimate
2	Notes and Estimate
3	Layout 1" = 20.0' scale
4	Layout 1/8" = 1' 0" scale
5	Sections
6	Piers - Ramp "A"
7	Piers - Ramp "B"
8	Piers - Typical Details
9	Entrance Details - Ramp "A" and "B", Sheet 1
10	Entrance Details - Ramp "A" and "B", Sheet 2
11	Piers A-1 and B-1
12	Pier A-2
13	Piers A-3, A-4 and A-5
14	Piers A-6 and A-7
15	Pier A-8
16	Piers B-2 and B-3
17	Pier B-4
18	Piers B-5 and B-6
19	Piers B-7 and B-8
20	Lighting
21	Lighting Details
22	Ramp Layout and Stop Type Location
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24	Slab Types A, B, C and D
25	Slab Type E
26	Bridge, Sheet 1
27	Bridge, Sheet 2
28	Bar List, Sheet 1
29	Bar List, Sheet 2 - Aluminum Chain Link Fencing
30	Bar List, Sheet 3 - Piers B-1, B-2

BRIDGE		
ITEM OR PART	MATERIALS	EST. NO.
SUB STRUCTURE	CEMENT - PENN DIRT CO WOODLAWN NY	61210
	SAND - BUFFALO SAND CO. BUFFALO NY	61718
	SLAB - BUFFALO SLAB CO. TONAWANDA NY	57832
SUPER-STRUCTURE	CEMENT - PENN DIRT CO WOODLAWN NY	61210
	SAND - BUFFALO SAND CO. BUFFALO NY	61718
	SLAB - BUFFALO SLAB CO. TONAWANDA NY	62031
BAR REINFORCING STEEL	ARMAMENT SLAB - BETHLEHEM STEEL CO. BUFFALO NY PIERS - BETHLEHEM STEEL CO. BUFFALO NY	62587 62587

CITY OF BUFFALO DATUM TO 88 DATUM
 ADD 574.92

Copied from Original Record Plan
 By - R.A. Smith
 Date - 1/29/63
 Compared by - W. Fagan

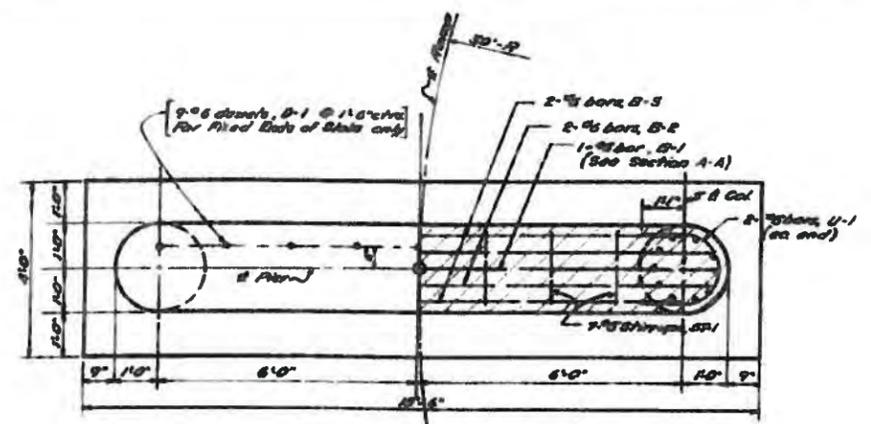
1039990

SCAJAQUADA CREEK EXPRESSWAY PEDESTRIAN OVERPASS

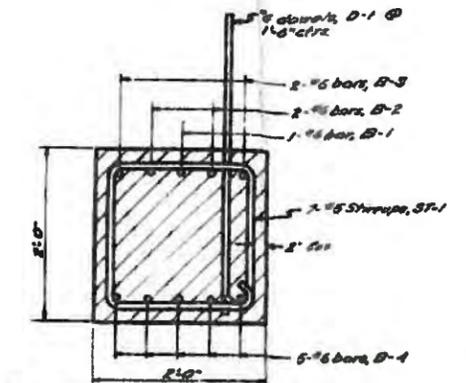
INDEX

PIER NO.	DATE	REVISION	BY	CHKD.	TOTAL QUANTITY
1	NEW YORK	6-10-1915			0

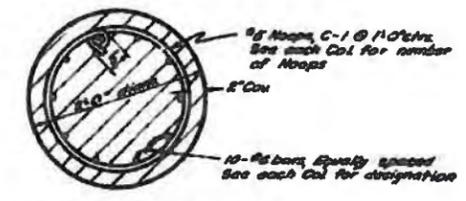
SCAJAGADA CREEK EXPRESSWAY
PIEDMONT OVERPASS



PLAN
Scale: 1/4" = 1'-0"

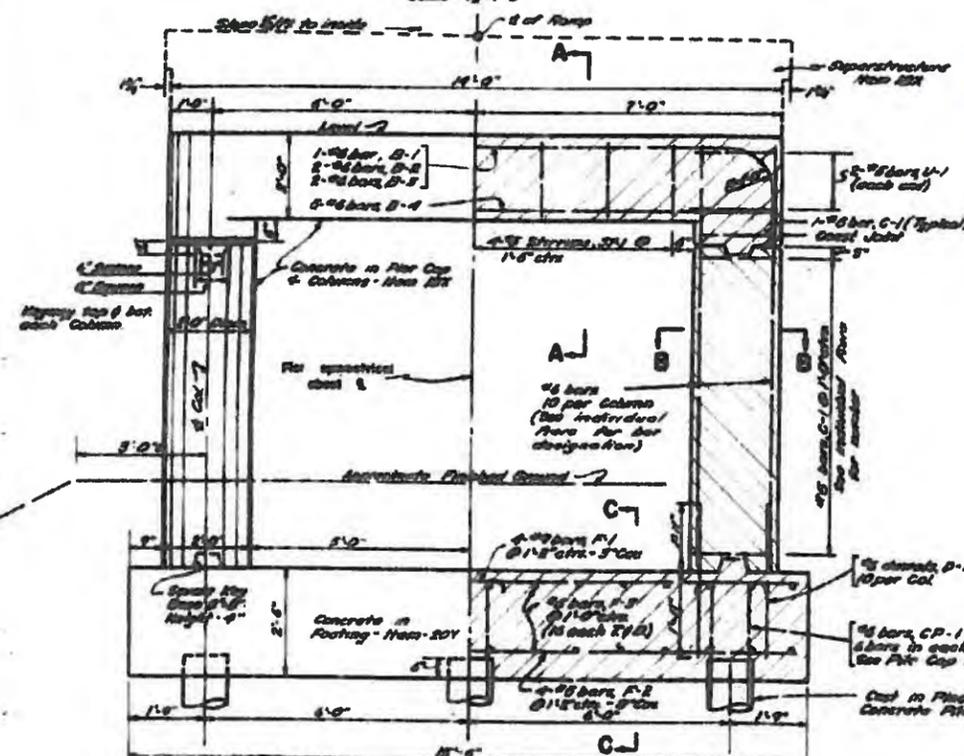


TYPICAL PIER CAP SECTION A-A
Scale: 1/4" = 1'-0"

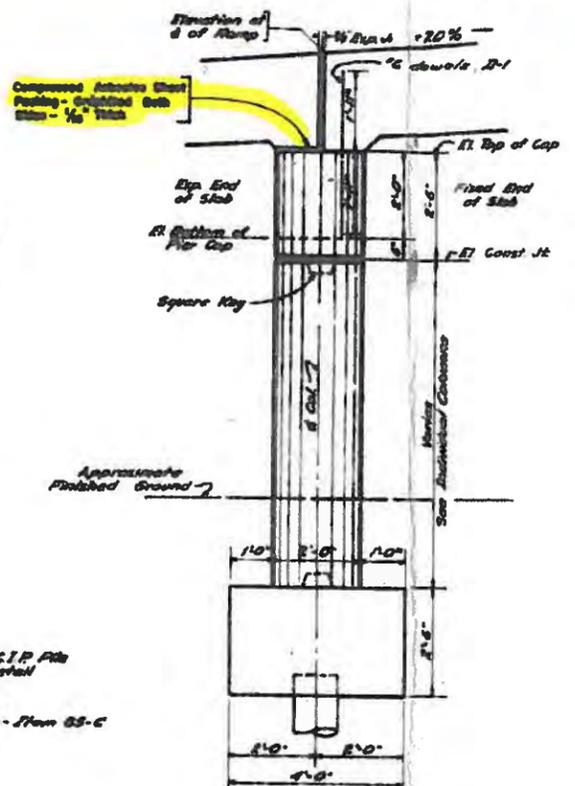


COLUMN SECTION B-B
Scale: 1/4" = 1'-0"

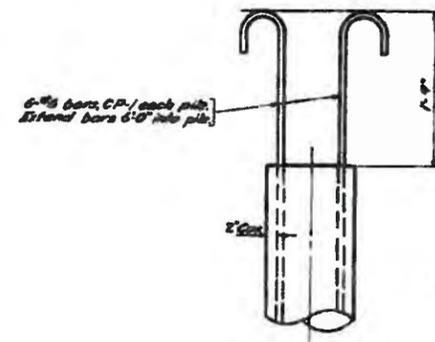
NOTE:
Expansion Joints shall be made of "Preformed Joint Filler" conforming to material M-20-0. Seal top 1" with "Butter Joint Material". Cap of Filler shall be included in price bid for concrete form. Payment for sealant shall be made under item 202.15A.



ELEVATION
Scale: 1/4" = 1'-0"

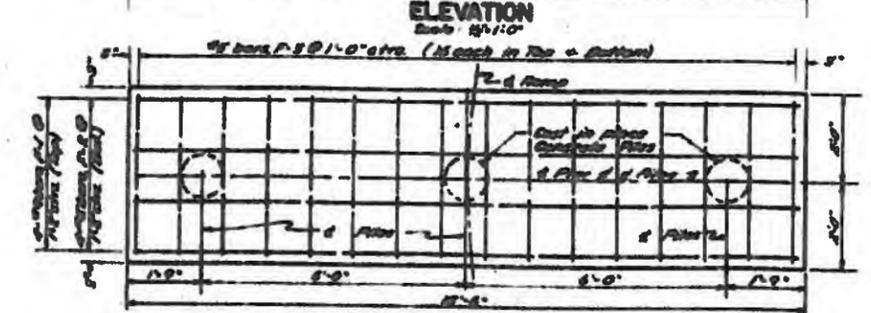


END VIEW A
Scale: 1/4" = 1'-0"

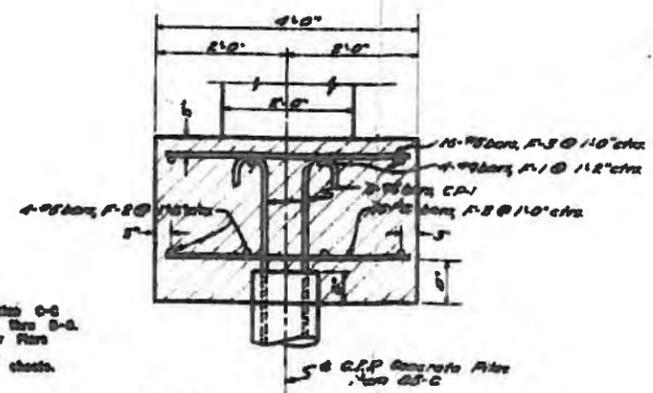


PILE CAP DETAIL
Scale: 1/4" = 1'-0"

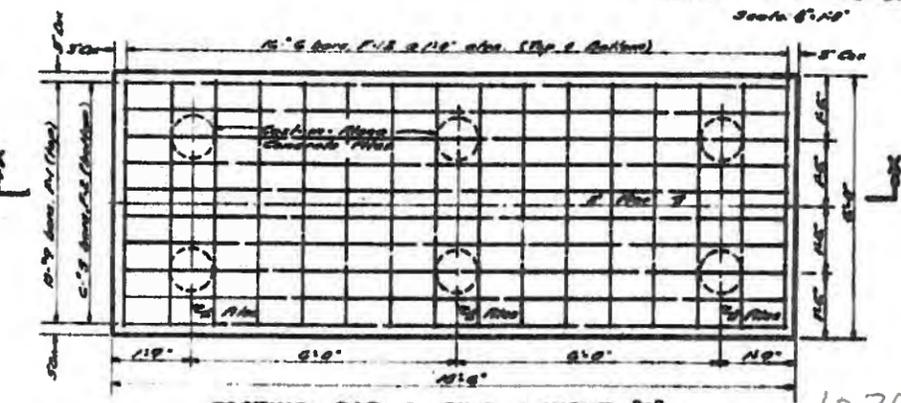
NOTE:
Before Cast in Place Piles may be driven the fill shall be completed and consolidated to the satisfaction of the Engineer, to the elevation of bottom of footing. The Piles shall then be driven thru this compacted fill to the required substance in the underlying material. It is expected that there may be considerable variation in lengths of pile. For estimating, lengths of 80' below bottom of footing were used for 75' and 40' below bottom of footing were used for 70'.



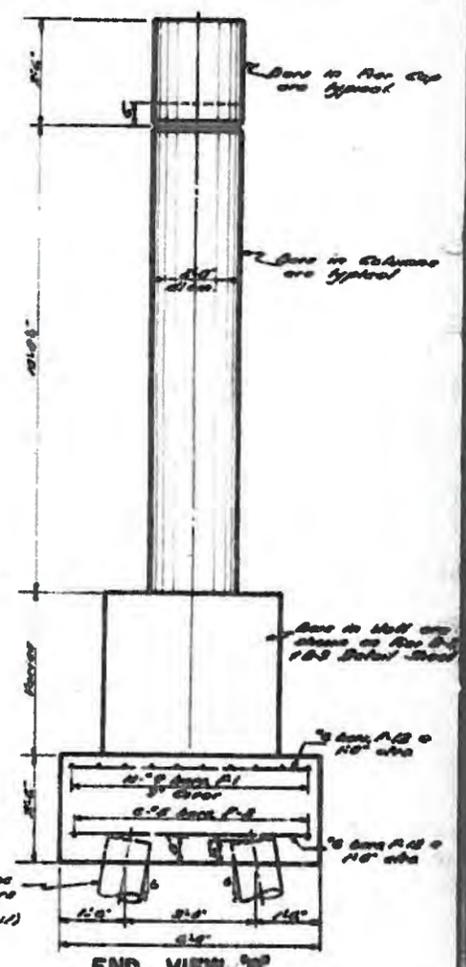
FOOTING BAR & PILE LAYOUT A
Scale: 1/4" = 1'-0"



TYPICAL FOOTING SECTION C-C
Scale: 1/4" = 1'-0"



FOOTING BAR & PILE LAYOUT B
PIERS B-2 & B-3 ONLY
Scale: 1/4" = 1'-0"



END VIEW B
PIERS B-2 & B-3 ONLY
Scale: 1/4" = 1'-0"

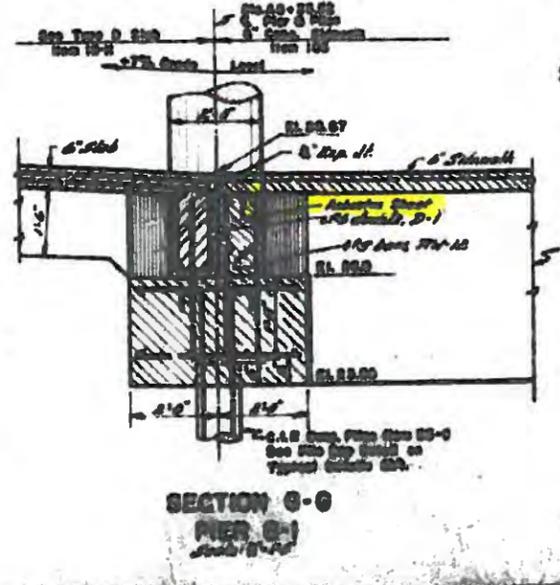
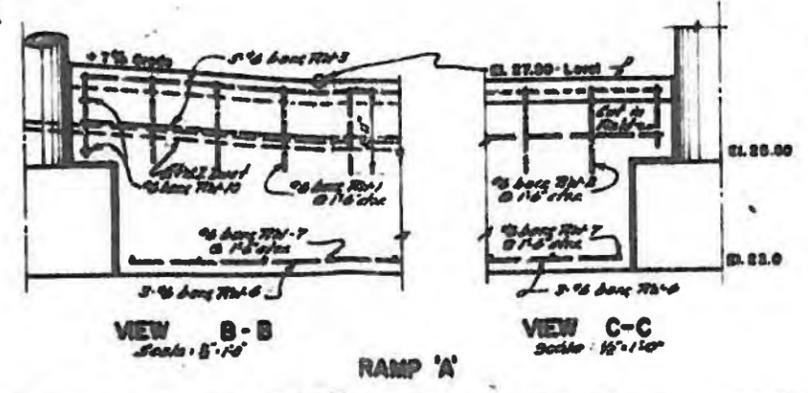
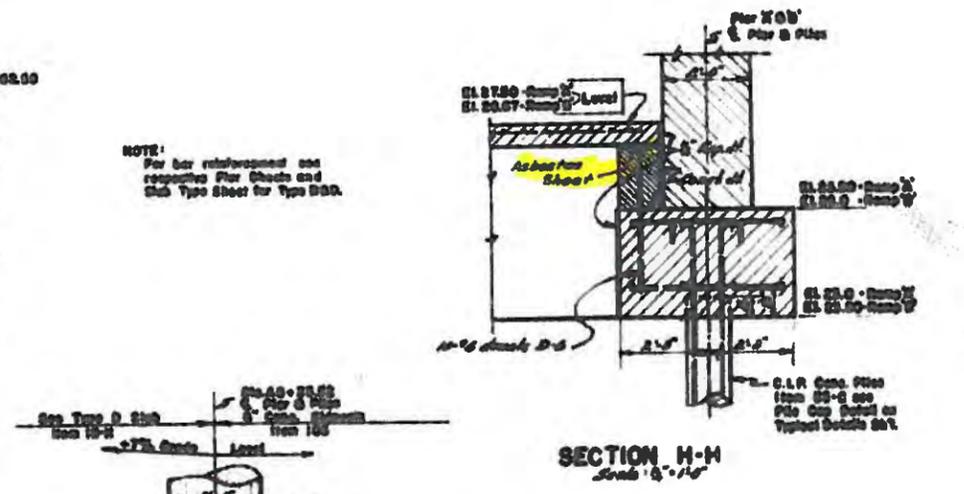
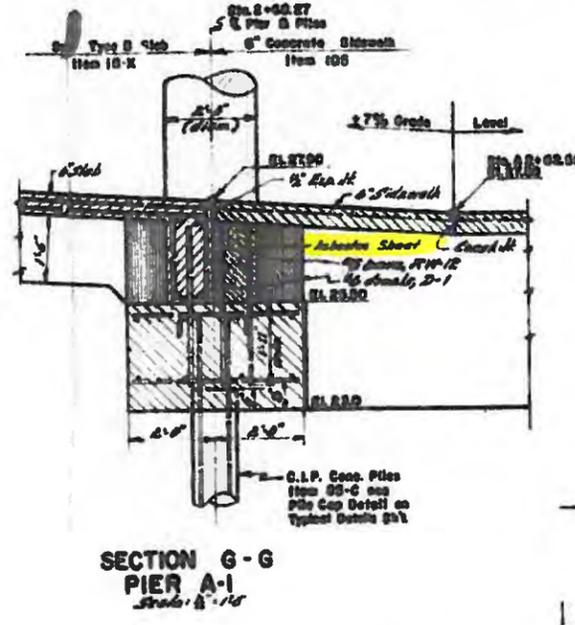
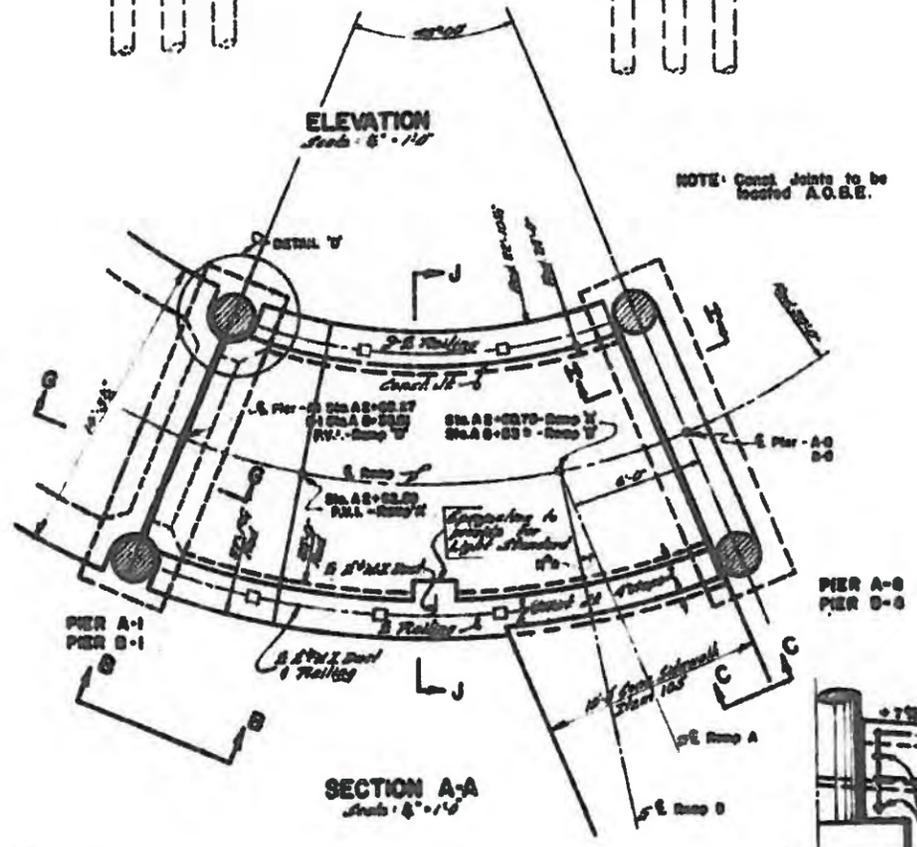
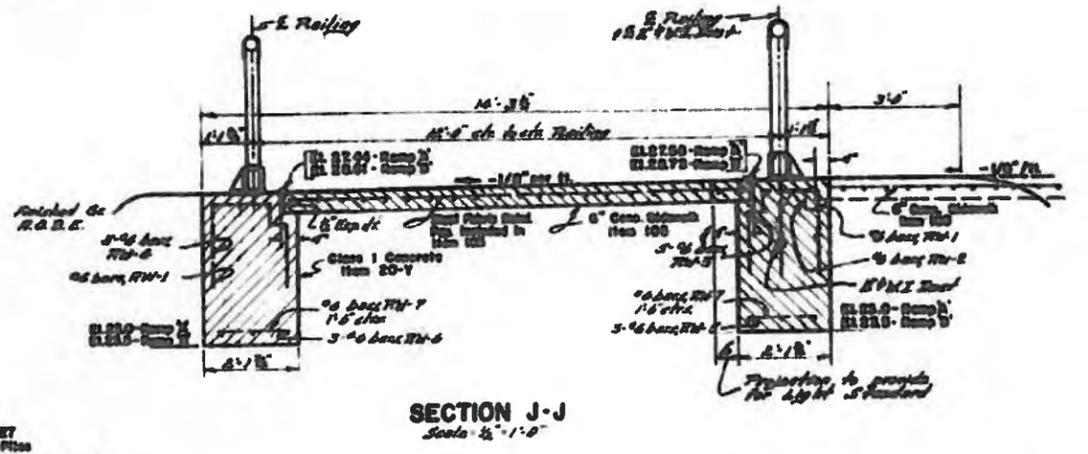
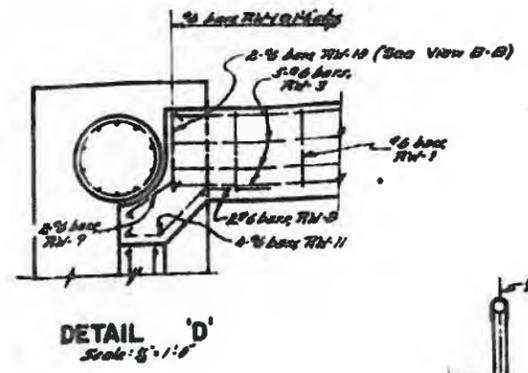
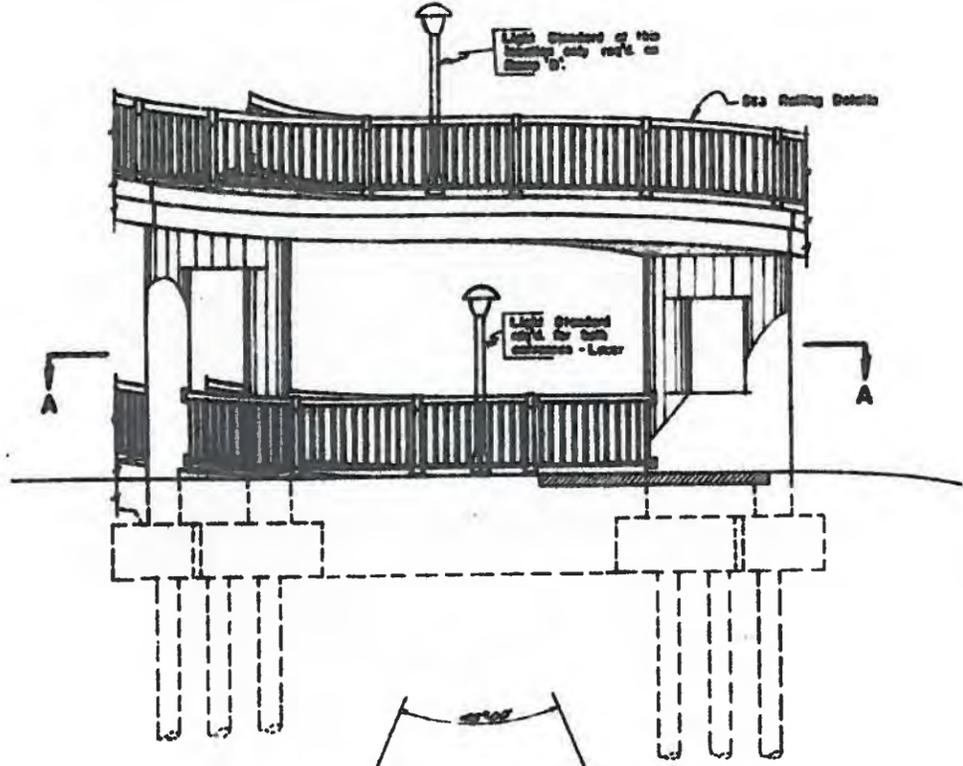
DATE	APR 1915
DESIGNED BY	J. G. Collins
DETAILED BY	J. G. Collins
TRACED BY	E. Williams
TRACING CHECKED BY	J. G. Collins

NOTE:
Foundation Layout, End View B and Section C-C only in Piers A-1, A-2, A-3, A-4 and B-3 thru B-4. For Cap and Column Details see typical for Piers A-1, A-2, A-3, A-4, B-1, B-2, B-3, B-4, B-5 and B-6. For additional information see individual pier sheets.

1039990
SCAJAGADA CREEK EXPRESSWAY
PIEDMONT OVERPASS
PIERS
TYPICAL DETAILS

FIG. NO.	DATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	08-1957	0-10071	0	01

**COAHOMA CREEK EXPRESSWAY
PEDESTRIAN OVERPASS**



DESIGNED BY	IN CHARGE OF
DRAWN BY	CHECKED BY
TRACED BY	APPROVED BY

1039990

**COAHOMA CREEK EXPRESSWAY
PEDESTRIAN OVERPASS**

CITY OF BUFFALO

NEW YORK

DEPT OF PUBLIC WORKS

ALTERATIONS

TO

~~BRIDGE~~

PAPERWAY

BRIDGE

LIST OF DRAWINGS

NO.	TITLE
1	PLAN OF EXISTING BRIDGE STRUCTURE, LONGITUDINAL & CROSS SECTIONS
2	EXISTING STEELWORK, FELDWORK TO EXISTING SCYRE RIP-RAP DETAILS
3	PLAN OF BRIDGE STRUCTURE, LONGITUDINAL & CROSS SECTIONS
4	WORTH ABUTMENT & PIER, PLAN, ELEVATION & DETAILS
5	OUTH ABUTMENT & PIER, PLAN, ELEVATION & DETAILS
6	PLAN OF STEEL PRIMEWORK, BEAM & DIAPHRAGM DETAILS
7	BRIDGE DECK DETAILS, BEAM BEARING DETAILS
8	ABUTMENT & PIER REINFORCING STEEL DETAILS
9	BEAM & DIAPHRAGM REINFORCING STEEL DETAILS
10	

REVIEWED BY
 Kenneth C. Lawrence, P.E.
 7/11/88

Doug Lawrence 6/17/92

APPROVED
 FOR THE CITY OF BUFFALO

EDWARD D. QUATER - COMM. OF PUBLIC WORKS
 ALLEN P. HAYSON - CITY ENGINEER

2260460

JAMES N. DE SERIO, P.E. - CONSULTING ENGINEER

STANDARD SPECIFICATIONS
 FOR BRIDGE CONSTRUCTION
 1988 EDITION
 WITH 1990 AMENDMENTS

