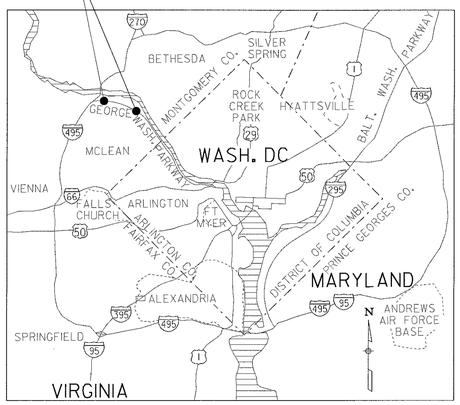
NPS NO.	REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
850 / 41,937	NC	VA	GWMP IA75,77	1	143

PROJECT PRA/NPS-GWMP IA75, 77



KEY MAP

WASHINGTON DC AND METROPOLITAN AREA

U.S. DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

GEORGE WASHINGTON MEMORIAL PARKWAY

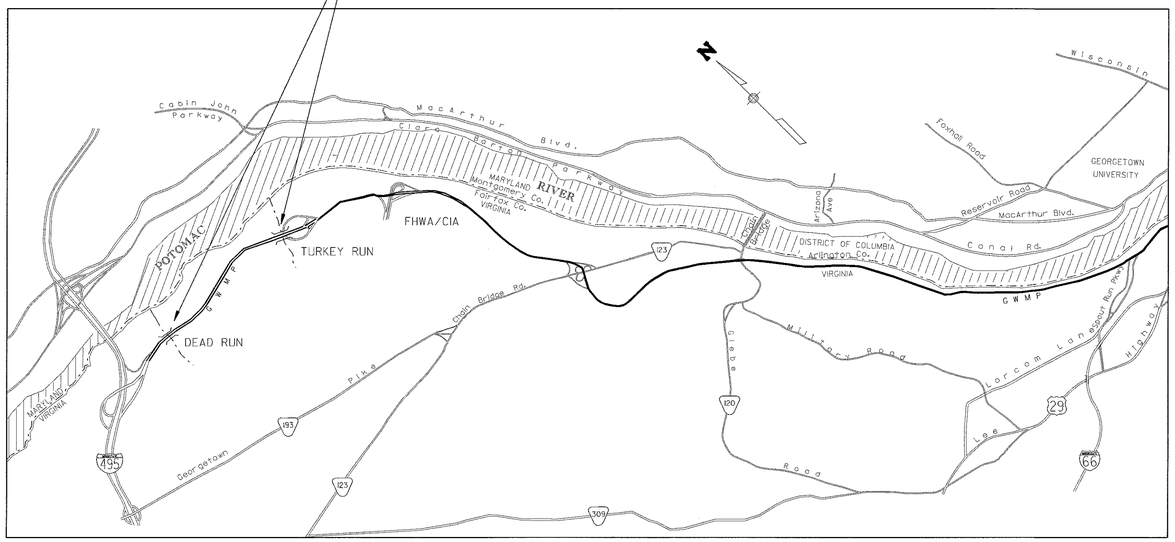
PLANS FOR PROPOSED

PROJECT PRA-NPS-GWMP IA75, 77

REHABILITATION OF BRIDGES OVER DEAD RUN AND TURKEY RUN

FAIRFAX COUNTY
VIRGINIA

PROJECT PRA-NPS-GWMP IA75, 77



0 2000 4000

SCALE IN METERS

INDEX TO SHEETS

CONVENTIONAL SIGNS

STATE BOUNDARY
INTERSTATE ROUTE
U.S. ROUTE
STATE ROUTE
RIGHT-OF-WAY — EXISTING / PROPOSED
EXISTING ROADWAY
RIVERS
CREEKS AND INTERMITENT DRAINAGE
MARSH OR SWAMP
TREELINE
TREES — EXISTING / PROPOSED
PIPE CULVERT WITH INLET
SINGLE OR MULTIPLE PIPE CULVERT WITH HEADWALL AND WINGWALL
SINGLE OR MULTIPLE PIPE CULVERT WITH END SECTION
SINGLE OR MULTIPLE BOX CULVERT WITH HEADWALL AND WINGWALL
GUARDRAIL

PLANS PREPARED BY

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

EASTERN FEDERAL LANDS HIGHWAY DIVISION
STERLING, VIRGINIA

June 1997

DESIGN DESIGNATION
GEORGE WASHINGTON MEMORIAL PARKWAY

ADT(1996)	42,800
ADT(2016)	53,500
DHV	7000
D	60%
T	1%
V	80 km/h
C/A	FULL
e_{max}	8%

TOTAL PROJECT LENGTH

(Inventory No.)

BRIDGE 1 (Dead Run)	3300-001P	0.09 Kilometers
BRIDGE 2 (Turkey Run)	3300-002P	0.12 Kilometers
TOTAL		0.21 Kilometers

DESCRIPTION OF PROJECT

IMPROVEMENT : Replacing deck and railing on Southbound Dead Run and Northbound & Southbound Turkey Run bridges. Constructing stone masonry guardwalls, and other miscellaneous work.

ROADWAY : George Washington Memorial Parkway

Specifications:
"Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects", FP-96.

PROJECT MANAGER	DESIGNERS
KEN ATKINS	ANN DO / BOB BEUCLER

FEDERAL LANDS HIGHWAY
Metric
COMMITMENT TO EXCELLENCE

RECOMMENDED: DATE: 2/7/97

DIVISION ENGINEER, EASTERN FEDERAL LANDS HIGHWAY DIVISION
FEDERAL HIGHWAY ADMINISTRATION

These drawings have been prepared in compliance with preliminary design drawings approved by:

2/19/97

SUPERINTENDENT, GEORGE WASHINGTON MEMORIAL PARKWAY, NATIONAL PARK SERVICE

2/19/97

FIELD DIRECTOR, NATIONAL CAPITAL AREA NATIONAL PARK SERVICE

APPROVED: DATE: 2/14/97

PROJECT MANAGER, DENVER SERVICE CENTER NATIONAL PARK SERVICE

NODE: PD2PI FILENAME: GWMP/GWIA75TTL.DGN PS&E 2A

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
NC	VA	GWMP IA75, 77	98	143

GENERAL NOTES

A. SPECIFICATIONS:

1. Design (Of New Elements): Standard Specifications for Highway Bridges, AASHTO 1992, and interim specifications, 1993 and 1994

2. Construction: - Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects FP-96

B. DESIGN LOADINGS:

1. Dead Loads: Unit Weight of Reinforced Concrete: 2,400 kg/m^3

2. Live Loads(On New Elements): MS 18 with Impact

3. Thermal Forces: Ambient Temperature = 20° C
   For Design: Temperature Rise = 12° C
   Temperature Fall = 27° C
   For Joints : Temperature Rise = 18° C
   Temperature Fall = 32° C

C. MATERIALS:

1. Concrete: Class D (AE) (Minimum 28 Day Compressive Strengths as Noted)
   a. Precast Deck Panels, and Cast-in-Place Closure at the End of Deck: 38 MPa.
   b. Bridge Curbs, Wingwalls, Wingwall Parapet, Wingwall Sidewalk, Top of Abutment Backwall: 28 MPa.

2. Concrete: Class E(AE)
   a. Latex Modified Concrete Overlay: 28 MPa.

3. Reinforcing Steel: ASTM A 615M, Grade 400, Epoxy Coated.
   Cover for reinforcing steel is 40 mm unless otherwise dimensioned.

   Lap splices are 30 bar diameters unless otherwise dimensioned

   All bar sizes shown on plans are metric bar sizes. Metric numbers used to identify reinforcement convert to English size reinforcement as follows

METRIC	ENGLISH
#20	#6
#15	#5
#10	#4

4. Prestressing Steel:

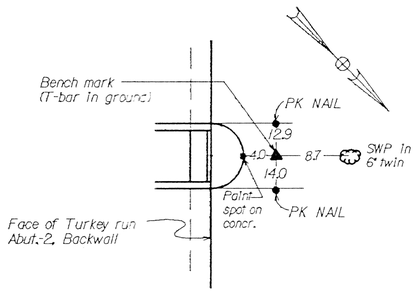
   a. Strand: AASHTO M 203, Grade 270, Low Relaxation.
   b. Prestressing Parameters (Strand):
      Apparent Modulus (For Calculation of Elongations): 193,000 MPa
      Maximum Jacking Stress: 1,490 MPa (80% Ultimate).
      Maximum Stress At Anchor After Anchor Set: 1,303 MPa (70% Ultimate).
      i. Pretensioning:
         Friction Coeffcient: 0.0
         Wobble Coefficient: 0.0
         Strand Diameter: 12.70 mm seven wire
      ii. Post-Tensioning:
         Anchor Set: 10 mm
         Friction Coeffcient: 0.25
         Wobble Coefficient: 0.0015
         Strand Diameter: 12.70 mm seven wire
   c. Tendon Ducts: Corrugated Sheathing as per Section 553 in "Special Contract Requirements".

D. ALLOWABLE STRESSES/ULTIMATE STRENGTH CAPACITIES :

1. Reinforced Concrete: As per AASHTO Allowable Stresses.

2. Prestressed Concrete:
   a. Transverse Concrete Stress: 0.0 MPa. Minimum.
      15 MPa. Compression.
      0.0 MPa. Minimum (at Cast-in-Place Joints and Closure Pours)
   b. Longitudinal Concrete Stress: 15 MPa. Compression.

3. Precast Deck Panel Casting and Erection: (Minimum Concrete Strengths and Panel Age)
   a. Prior to Transfering Pretensioned Strands : 28 MPa.
   b. Prior to Lifting the Panel : 28 MPa.
   c. Prior to Stressing Longitudinal Post-Tensioning : 38 MPa. (Precast Elements)
      14 MPa (C.I.P. Transverse Joint between Panels)
   d. Minimum Age of Panels at Time of Erection : 28 Days or 38 MPa.



BENCH MARK

SCOPE OF WORK

Perform the following work for the rehabilitation of the Dead Run and Turkey Run bridges:

A. Turkey Run Northbound and Southbound, Dead Run Southbound

1. Remove the existing bridge rail. Remove the existing deck in sections and replace with precast concrete deck panels.

   a. Removal of deck (including curbs and rail): Pay Item 20303K

   b. Manufacture and placement of precast panels including the following items: Pay Item 55228

      1. Concrete
      2. Reinforcing Steel
      3. Transverse Pretensioning Steel
      4. Scuppers and Panel Hold-down Clips
      5. Placement of grout pad under Panels
      6. Placement of Concrete in Transverse Joints between Panels
      7. Longitudinal Post-tensioning of Panels

   c. Placement of cast-in-place end section of deck including the following items: Pay Item 55228

      1. Concrete
      2. Reinforcing Steel

2. Remove top of abutment backwalls and install new expansion dams.

   a. Remove top of backwall: Pay Item 20309AB

   b. Install new expansion dams and concrete for top of backwall

      1. Expansion Dam: Pay Item 55502
      2. Concrete: Pay Item 55201D
      3. Reinforcing Steel: Pay Item 55402

3. Remove concrete from tops of wingwalls, remove wingwall sidewalks, and reconstruct tops of wingwalls with a masonry-faced parapet as shown on the plans.

   a. Remove tops of wingwalls and wingwall sidewalks: Pay Item 20309AB

   b. Reconstruct tops of wingwalls with masonry-faced parapet

      1. Concrete: Pay Item 55201D
      2. Reinforcing Steel: Pay Item 55402
      3. Masonry Veneer: Pay Item 62001CE

4. At the following locations, repair areas of spalled or deteriorated concrete as shown on the plans or directed by the CO: Pay Item 55209

   a. Dead Run Southbound: Abutment 1 backwall and breastwall
   b. Turkey Run Southbound: Abutment 2 backwall and breastwall

5. Place curbs on bridge deck: Pay Item 55206DU

6. Install new rail on bridge: Pay Item 55601BC

7. Place latex modified concrete overlay on bridge deck: Pay Item 55207EE

8. Place Class 2 riprap at locations beneath bridge scuppers as directed by the CO: Pay Item 25102B

9. Remove and dispose of all electrical equipment related to the existing cathodic protection system: Pay Item 20304AL

B. Dead Run Northbound

1. Remove existing bituminous bridge pavement: Pay Item 20303PFG

2. Remove top of abutment backwalls and ends of bridge deck as shown. Install new expansion dams.

   a. Remove top of backwall and ends of deck: Pay Item 20309AB

   b. Install new expansion dams and concrete for top of backwall and ends of deck

      1. Expansion Dam: Pay Item 55502
      2. Concrete: Pay Item 55201D
      3. Reinforcing Steel: Pay Item 55402

3. Remove concrete from tops of wingwalls, remove wingwall sidewalks, and reconstruct sidewalks and tops of wingwalls with a masonry-faced parapet as shown on the plans.

   a. Remove tops of wingwalls and wingwall sidewalks: Pay Item 20309AB

   b. Reconstruct sidewalks and tops of wingwalls with masonry-faced parapet

      1. Concrete: Pay Item 55201D
      2. Reinforcing Steel: Pay Item 55402
      3. Masonry Veneer: Pay Item 62001CE

4. At the abutment 1 backwall and breastwall, repair areas of spalled or deteriorated concrete as shown on the plans or directed by the CO: Pay Item 55209

5. Place latex modified concrete overlay on bridge deck: Pay Item 55207EE

6. Place Class 2 riprap at locations beneath bridge scuppers as directed by the CO: Pay Item 25102B

7. Plug the existing scuppers.

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION

GEORGE WASHINGTON MEMORIAL PARKWAY

BRIDGES OVER TURKEY RUN AND DEAD RUN

GENERAL NOTES

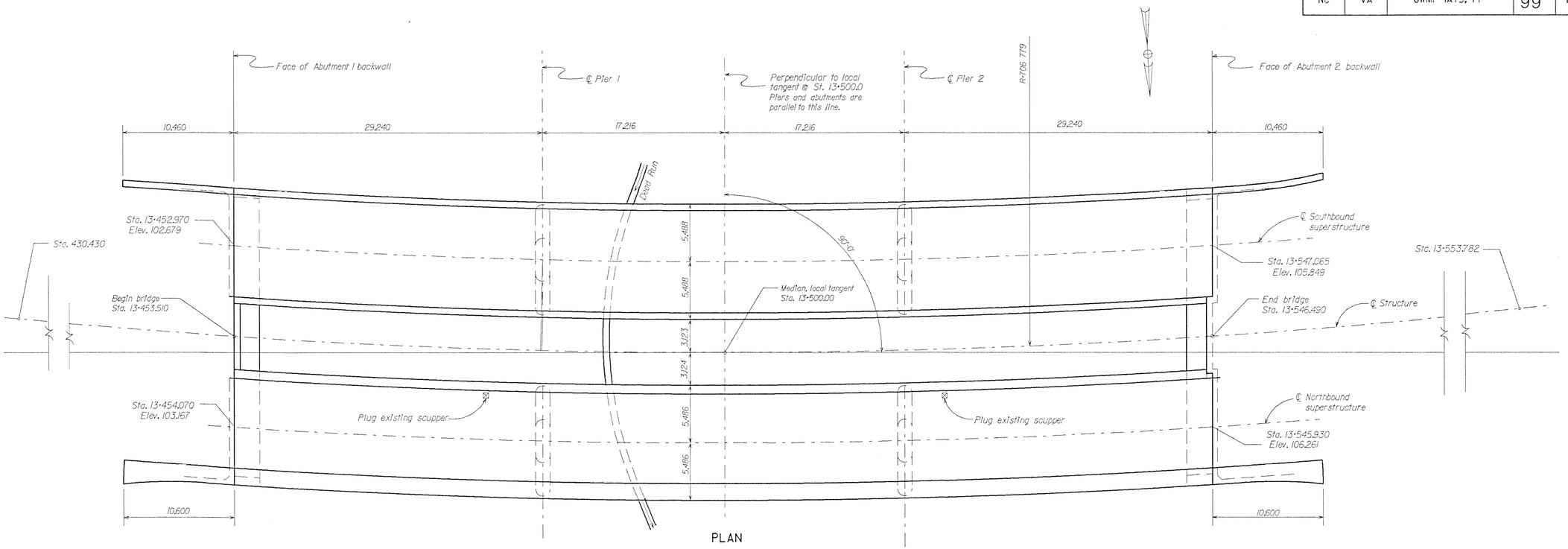
TEAM LEADER: Gary Jakovich			DATE August 1995
DESIGNED BY	DRAWN BY	CHECKED BY	SCALE No Scale
HHP	BSK	GSJ	Br. Dwg. No. 2 of 47

12-JUN-1997 14:58

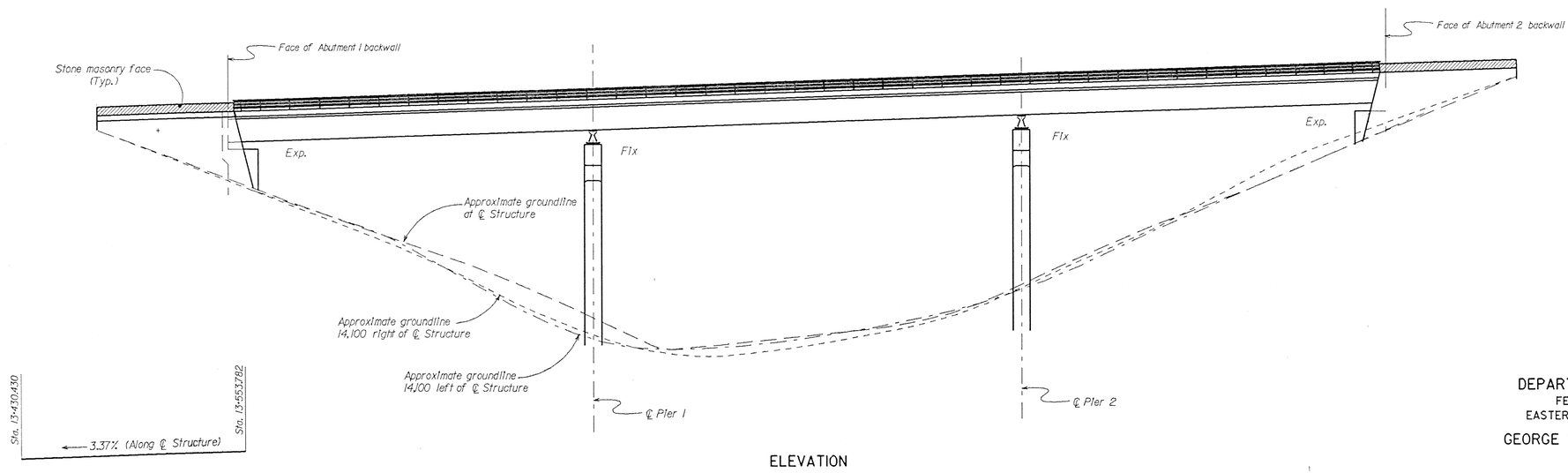
V:\

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
NC	VA	GWMP IA75, 77	99	147

Structure No. 3300-001P



PLAN



ELEVATION

PROFILE GRADE

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION

GEORGE WASHINGTON MEMORIAL PARKWAY

BRIDGE OVER DEAD RUN
NORTHBOUND AND SOUTHBOUND

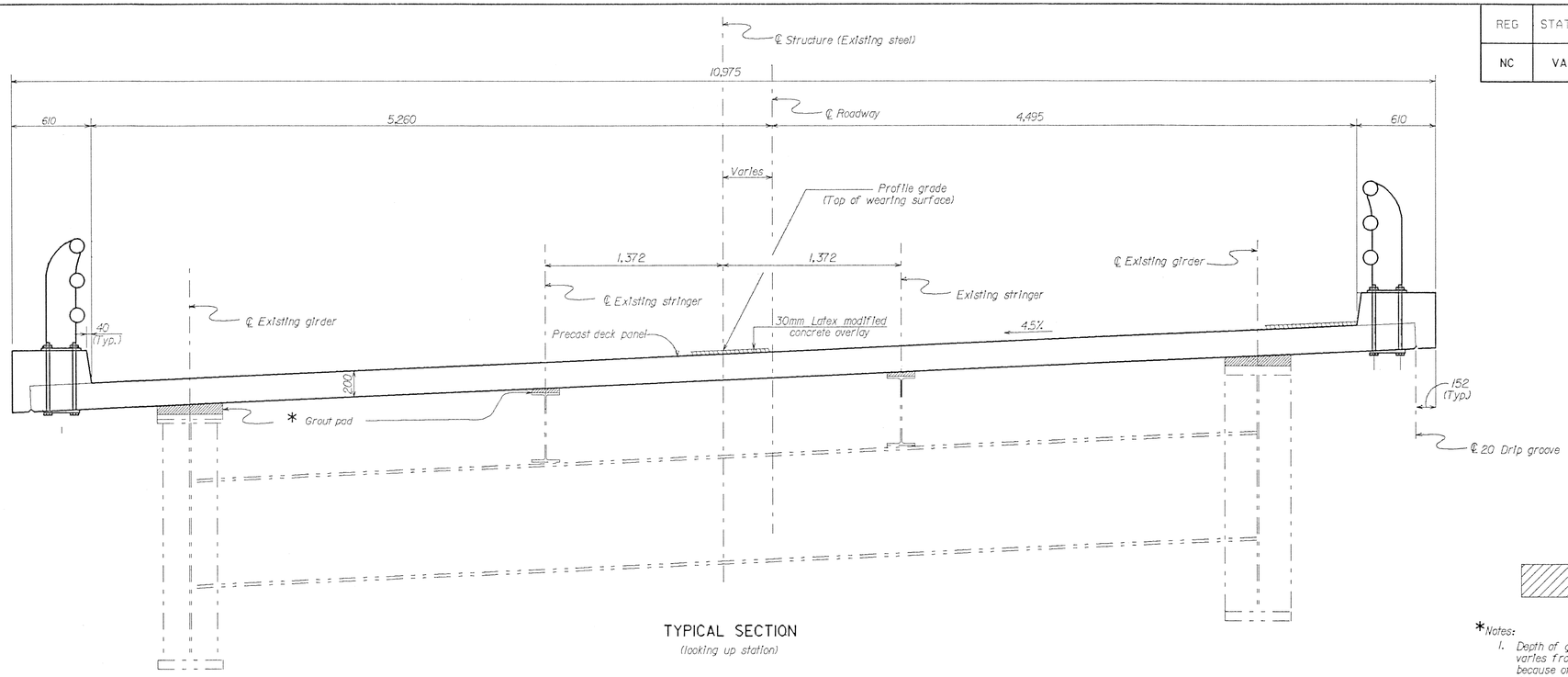
PLAN AND ELEVATION

TEAM LEADER :		Gary Jakovich	DATE August 1995
DESIGNED BY	DRAWN BY	CHECKED BY	SCALE No Scale
HHP	HHP	GSJ	Br. Dwg. No. 3 of 47

13-MAR-1997 08:35

VI-

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
NC	VA	NPS-GWMP IA75, 77	100	143

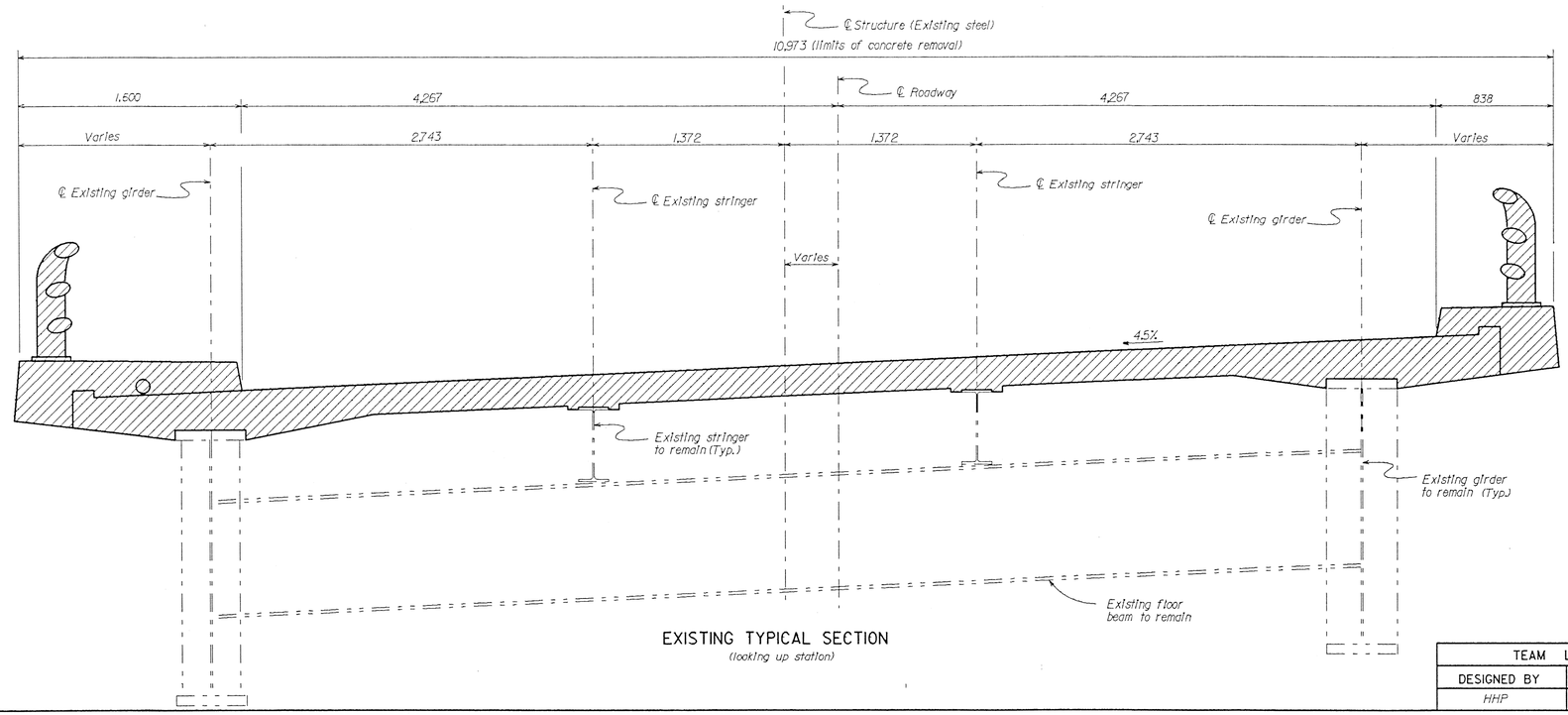


TYPICAL SECTION
(looking up station)

Existing deck, overlay, sidewalk and railing to be removed

*Notes:

1. Depth of grout pad at ℄ girder varies from approx. 60 mm to 100 mm because of variation in flange thickness. See as-built drawings for girder flange details.
2. Depth of grout pad at ℄ stringer is approx. 30 mm.



EXISTING TYPICAL SECTION
(looking up station)

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EASTERN FEDERAL LANDS HIGHWAY DIVISION

GEORGE WASHINGTON MEMORIAL PARKWAY

BRIDGE OVER DEAD RUN
SOUTHBOUND STRUCTURE

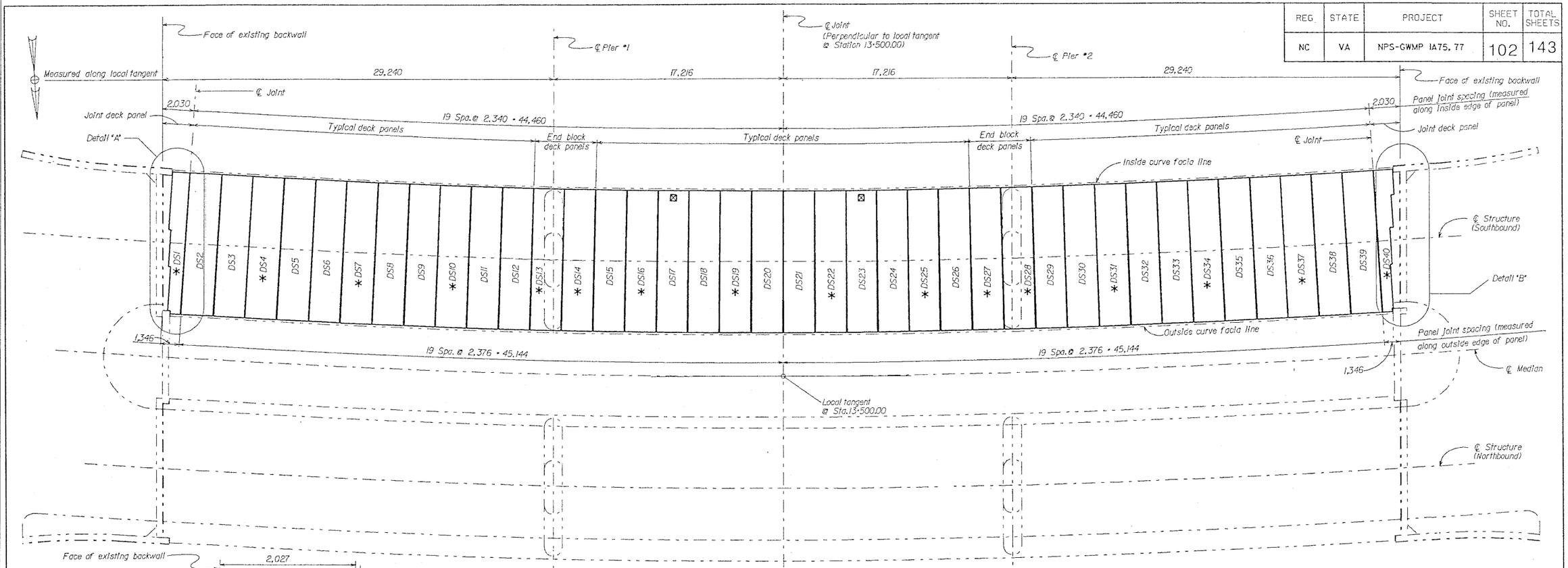
TYPICAL SECTION

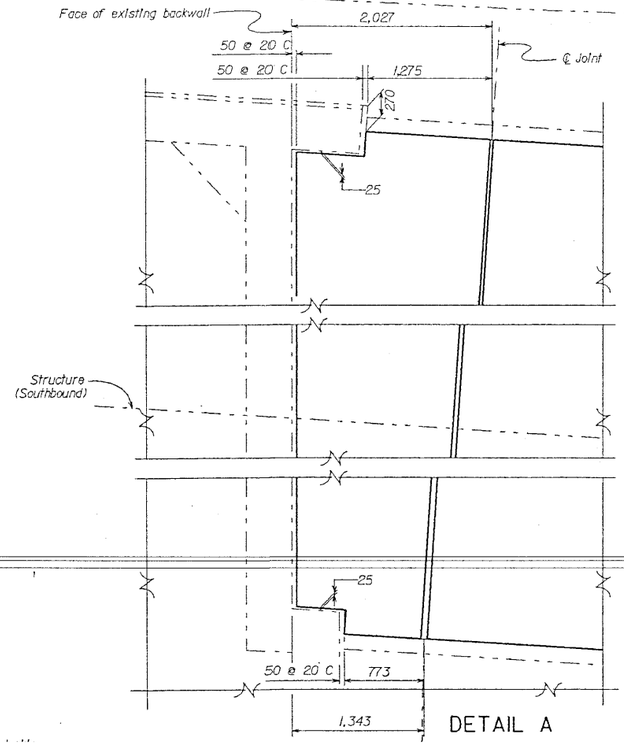
TEAM LEADER :		Gary Jakovich	DATE July 1995
DESIGNED BY	DRAWN BY	CHECKED BY	SCALE No Scale
HHP	HHP/BSK	GSJ	Br. Dwg. No. 4 of 47

13-MAR-1997 08:36

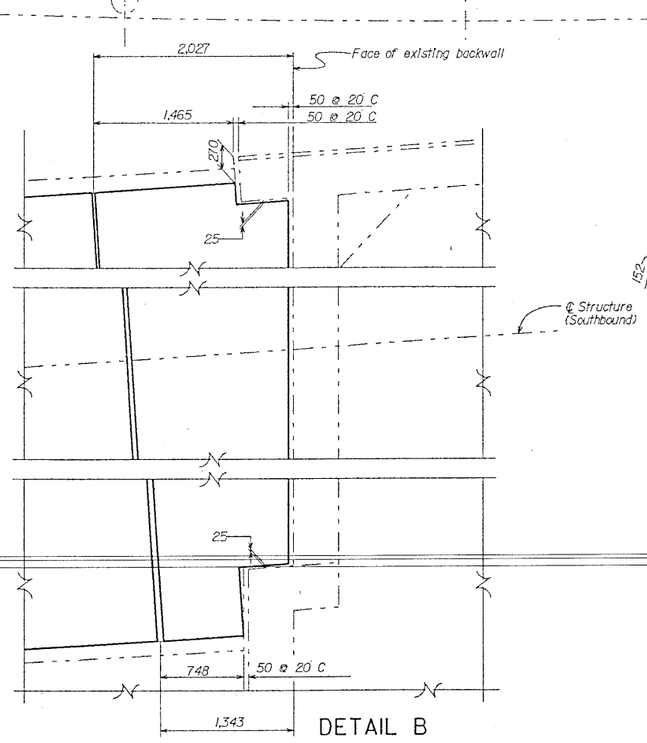
VI=

REG.	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
NC	VA	NPS-GWMP 1A75, 77	102	143





DETAIL A



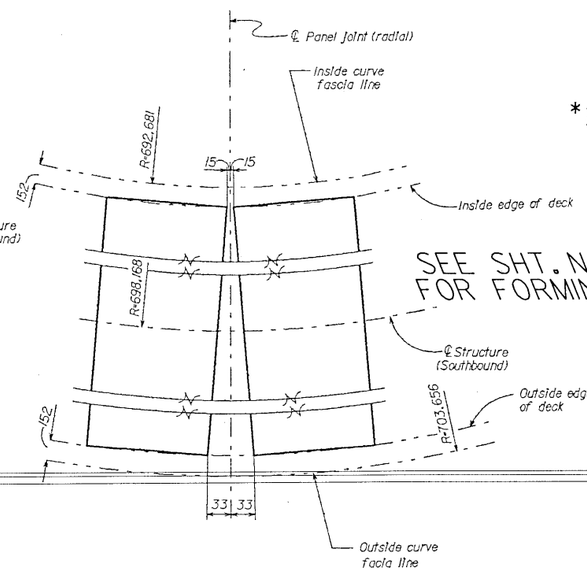
DETAIL B

⊠ = Location of scuppers

Note:

Verify all dimensions and submit drawings for approval before ordering materials.

* = Panels which are connected to the supporting beams with steel clips.



PANEL JOINT DETAIL, TYP.

SEE SHT. NO. 125 FOR FORMING AT JOINTS

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION

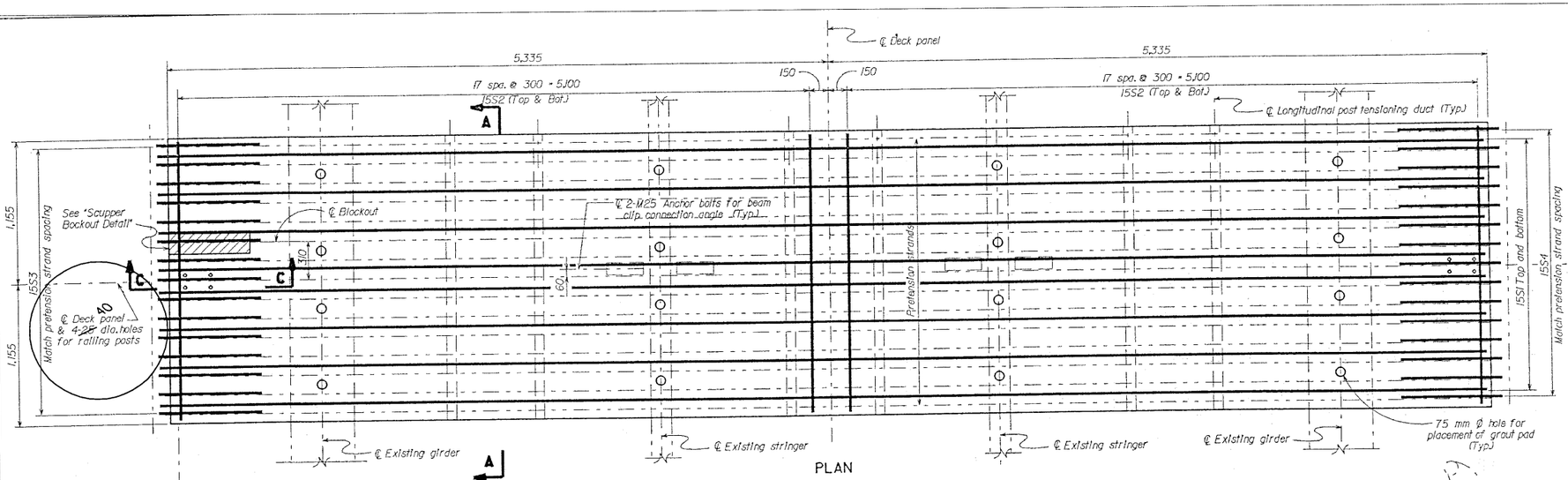
GEORGE WASHINGTON MEMORIAL PARKWAY
BRIDGE OVER DEAD RUN

DECK LAYOUT

TEAM LEADER :	Gary Jakovich	DATE April 1995
DESIGNED BY	DRAWN BY	CHECKED BY	SCALE No scale

/br3pl/usgs3/gwmpla75/deadrun/decklaydgn

REG	STATE	PROJECT	SHEET NO.	TOT SHE
NC	VA	NPS-GWMP 1A75, 77	104	12



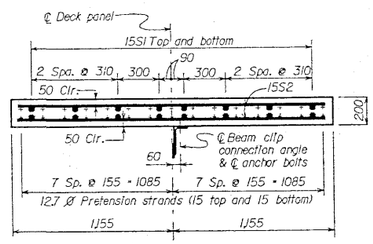
Notes:

1. Provide 25 cover unless otherwise noted.
2. Position of reinforcement may be adjusted slightly to accommodate strands. Inserts. holes, etc.
3. Clip bar 15S1 as needed to permit installation of scupper at panels DS17 and DS23.
4. For longitudinal prestressing details see "Longitudinal Post Tensioning" and "Bulkhead and Shear Keys" sheets.
5. Rough broom finish top surface of panel to an amplitude of 3.
6. For panel lifting and leveling support locations see "Miscellaneous Details" sheet.
7. For scupper locations see "Deck Layout" sheet.
8. For "Beam Clip Detail", see "Miscellaneous Details" sheet.
9. Pretension each strand to a force of 138 kN.

BEAM CLIP LOCATIONS

Panels	* Dimension a	b	c	d
DS16, DS25	1,725	885	1,015	1,860
DS4, DS37	1,820	980	920	1,765
DS7, DS34	1,505	1,065	840	1,680
DS10, DS31	1,915	1,075	825	1,670
DS19, DS22	1,790	945	955	1,800

* Dimensions are parallel to panel surface.



SECTION A-A

ESTIMATED QUANTITIES

ITEM	UNIT	QUANTITY
Reinforcement steel (Epoxy coated)	kilograms	598
Prestressed steel	kilograms	250
Class DX(AE) Concrete	cubic meters	4.93

BAR LIST

◇BAR	NO.	LENGTH	BENT	STR.
15S1	16	10,570		•
15S2	72	2,210		•
15S3	15	1,765	•	
15S4	15	1,715	•	
◇◇◇15S5	1	1,465	•	

◇ Number preceding letter denotes bar size.

◇◇ For one typical deck panel

◇◇◇ Panels DS 17 and DS 23 only

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION

GEORGE WASHINGTON MEMORIAL PARKWAY

BRIDGE OVER DEAD RUN
SOUTHBOUND

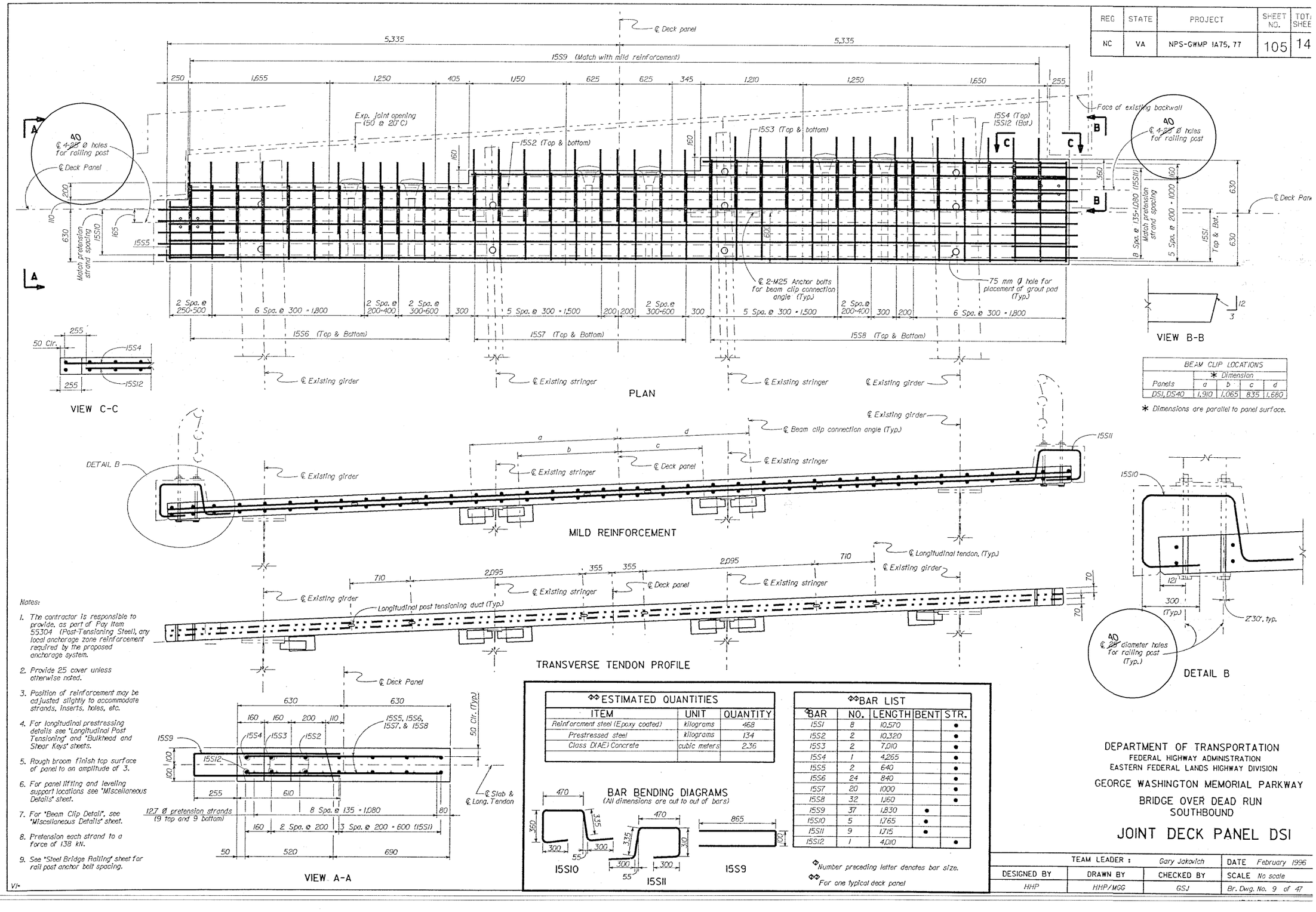
TYPICAL DECK PANEL

TEAM LEADER :		Gary Jakovich	DATE July 1995
DESIGNED BY	DRAWN BY	CHECKED BY	SCALE No scale
HHP	HHP/MGG	GSJ	Br. Dwg. No. 8 of 41

13-MAR-1997 08:46

VII-

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
NC	VA	NPS-GWMP 1A75, 77	105	14



BEAM CLIP LOCATIONS				
	* Dimension			
Panels	a	b	c	d
DS1, DS40	1,910	1,065	835	1,680

* Dimensions are parallel to panel surface.

Notes:

1. The contractor is responsible to provide, as part of Pay Item 55304 (Post-Tensioning Steel), any local anchorage zone reinforcement required by the proposed anchorage system.
2. Provide 25 cover unless otherwise noted.
3. Position of reinforcement may be adjusted slightly to accommodate strands, inserts, holes, etc.
4. For longitudinal prestressing details see "Longitudinal Post Tensioning" and "Bulkhead and Shear Keys" sheets.
5. Rough broom finish top surface of panel to an amplitude of 3.
6. For panel lifting and leveling support locations see "Miscellaneous Details" sheet.
7. For "Beam Clip Detail", see "Miscellaneous Details" sheet.
8. Pretension each strand to a force of 138 kN.
9. See "Steel Bridge Railing" sheet for rail post anchor bolt spacing.

◇◇ESTIMATED QUANTITIES

ITEM	UNIT	QUANTITY
Reinforcement steel (Epoxy coated)	kilograms	468
Prestressed steel	kilograms	134
Class (AE) Concrete	cubic meters	2.36

BAR BENDING DIAGRAMS
(All dimensions are out to out of bars)

◇◇BAR LIST

◇BAR	NO.	LENGTH	BENT	STR.
15S1	8	10,570		•
15S2	2	10,320		•
15S3	2	7,010		•
15S4	1	4,265		•
15S5	2	640		•
15S6	24	840		•
15S7	20	1000		•
15S8	32	1,160		•
15S9	37	1,830	•	
15S10	5	1,765	•	
15S11	9	1,715	•	
15S12	1	4,010		•

◇Number preceding letter denotes bar size.
◇◇For one typical deck panel

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION

GEORGE WASHINGTON MEMORIAL PARKWAY

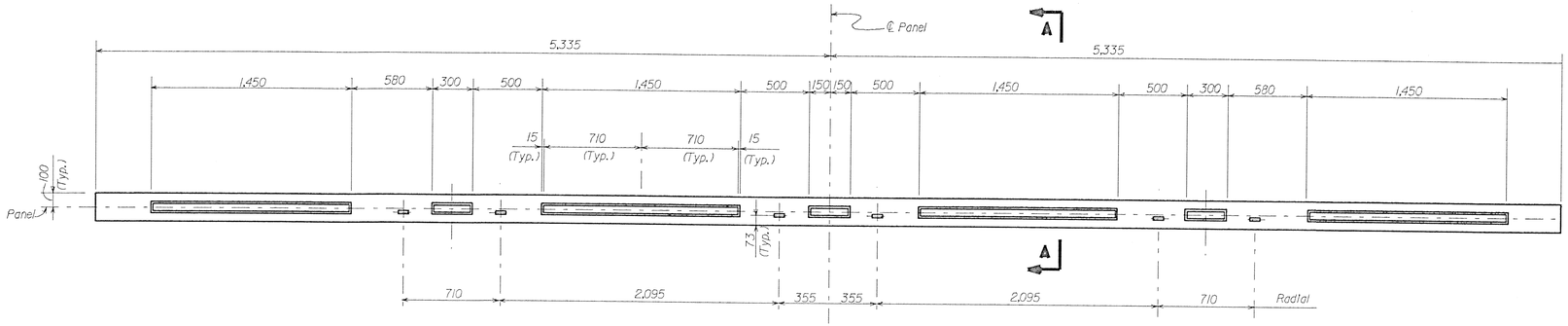
BRIDGE OVER DEAD RUN
SOUTHBOUND

JOINT DECK PANEL DSI

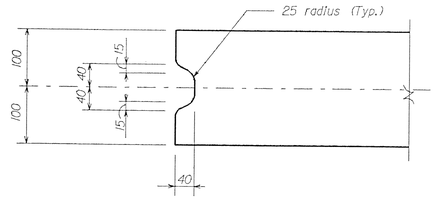
TEAM LEADER : Gary Jakovich			DATE February 1996
DESIGNED BY	DRAWN BY	CHECKED BY	SCALE No scale
HHP	HHP/MGG	GSJ	Br. Dwg. No. 9 of 47

VI-

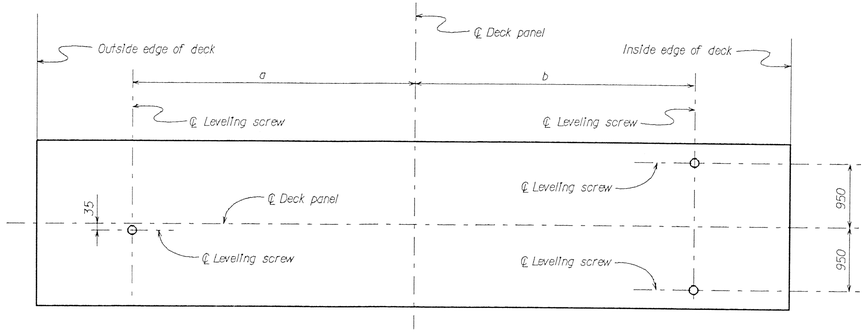
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
NC	VA	GWMP IA75, 77	108	143



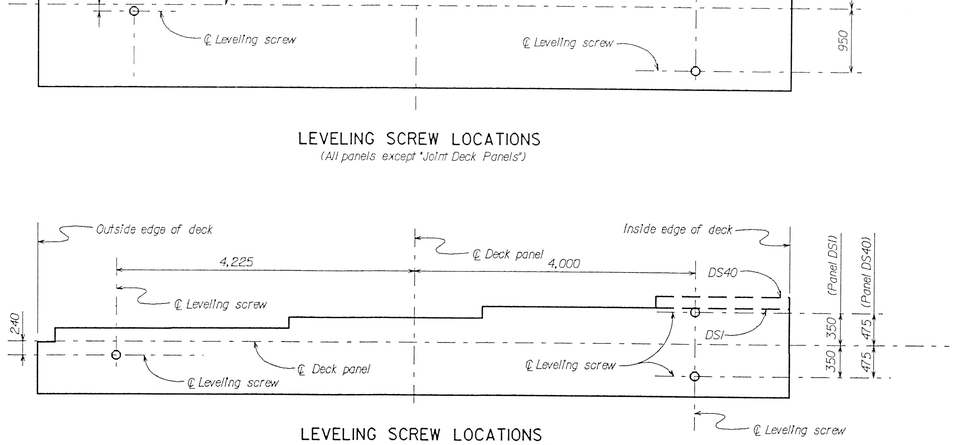
BULKHEAD ELEVATION



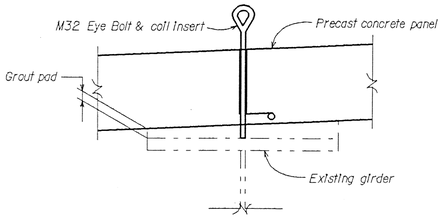
SECTION A-A



LEVELING SCREW LOCATIONS
(All panels except "Joint Deck Panels")



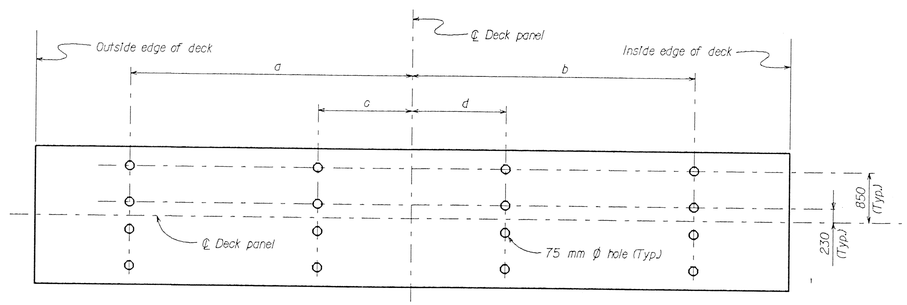
LEVELING SCREW LOCATIONS
("Joint Deck Panels" - panels DSI & DS40)



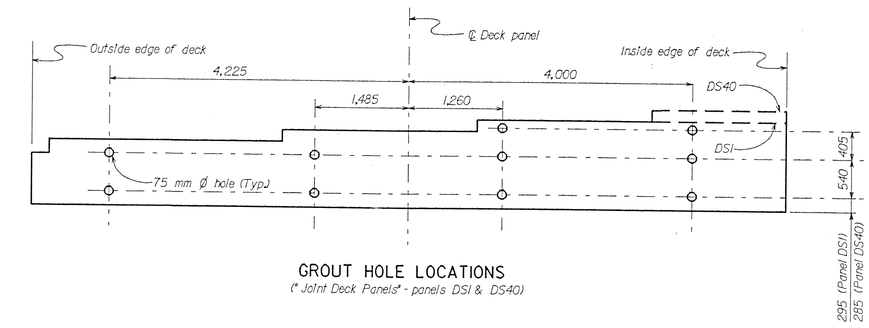
LEVELING SCREW DETAIL

✳ Leveling Screw Location		
Panels	Dimension a	b
DS2, DS39	4,185	4,045
DS3, DS38, DSI5, DS26	4,130	4,095
DS4, DS37, DSI4, DS27	4,085	4,140
DS5, DS36, DSI3, DS28	4,050	4,175
DS6, DS35, DSI2, DS29	4,025	4,200
DS7, DS34, DSII, DS30	4,005	4,220
DS8, DS33, DS9, DS32, DSI0, DS31	3,990	4,235
DSI6, DS25	4,170	4,055
DSI7, DS24	4,165	4,065
DSI8, DS23	4,140	4,090
DSI9, DS22	4,125	4,105
DS20, DS2I	4,115	4,115

✳ For all Panels except Joint Deck Panels



GROUT HOLE LOCATIONS
(All panels except "Joint Deck Panels")



GROUT HOLE LOCATIONS
("Joint Deck Panels" - panels DSI & DS40)

✳ GROUT HOLE LOCATIONS				
PANEL	Dimension a	b	c	d
DS2, DS39	4185	4045	1440	1305
DS3, DSI5, DS26, DS38	4130	4095	1390	1355
DS4, DSI4, DS27, DS37	4085	4140	1345	1400
DS5, DSI3, DS28, DS36	4050	4175	1310	1435
DS6, DSI2, DS29, DS35	4025	4200	1280	1465
DS7, DSII, DS30, DS34	4005	4220	1260	1485
DS8, DSI0, DS31, DS33	3990	4235	1250	1495
DS9, DS32,	3990	4235	1245	1500
DSI6, DS25	4170	4055	1440	1305
DSI7, DS24	4165	4065	1420	1325
DSI8, DS23	4140	4090	1395	1350
DSI9, DS22	4125	4105	1370	1375
DS20, DS2I	4115	4115	1370	1375

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION

GEORGE WASHINGTON MEMORIAL PARKWAY

BRIDGE OVER DEAD RUN
SOUTHBOUND

PANEL INSERT & BULKHEAD DETAILS

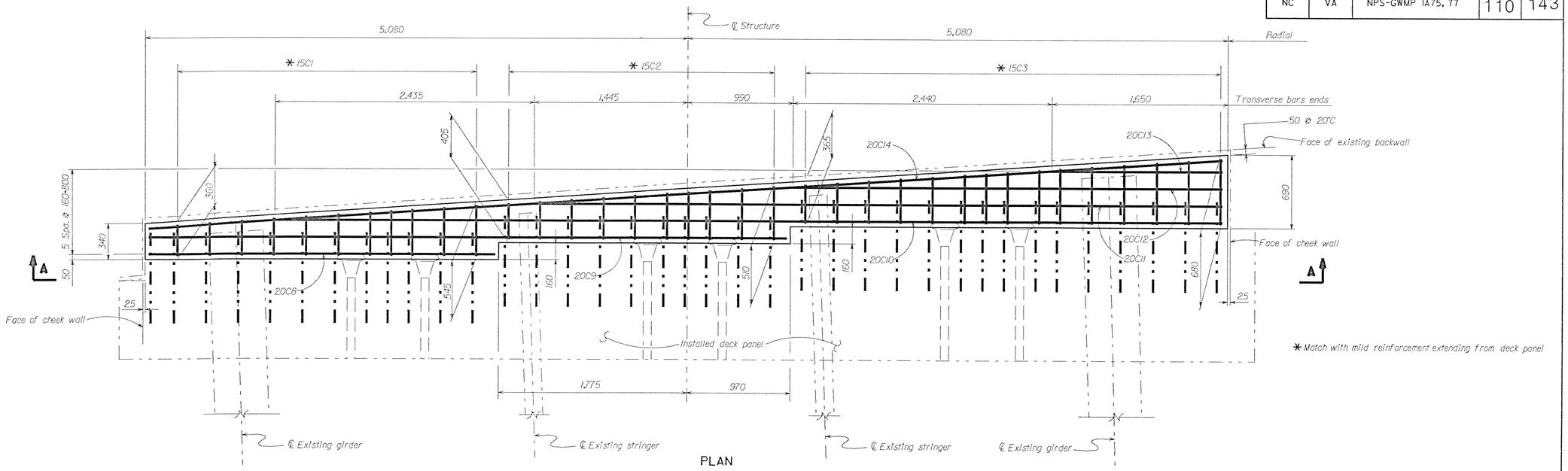
TEAM LEADER :		Gary Jakovich	DATE July 1995
DESIGNED BY	DRAWN BY	CHECKED BY	SCALE No scale
HHP/MGG	MGG	GSJ	Br. Dwg. No. 12 of 47

13-MAR-1997 08:51

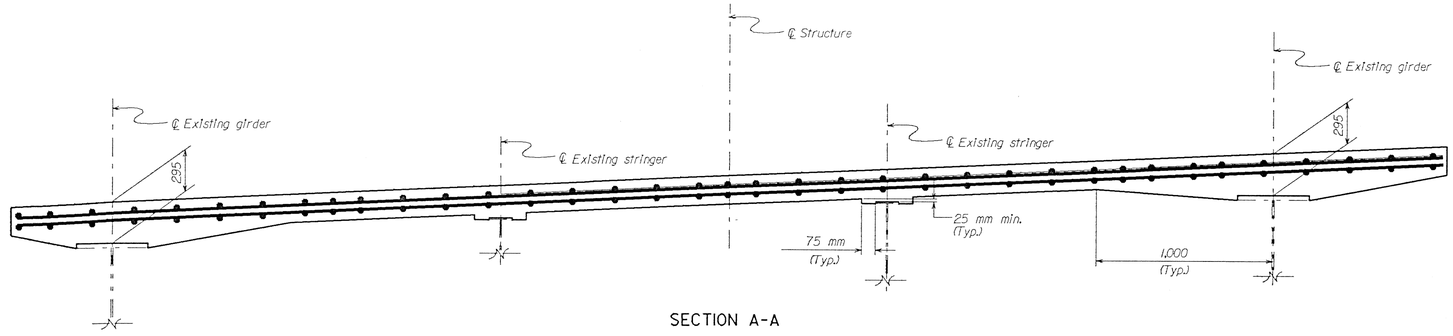
br2p3 \br3pl\usqd3\gwmpla75\deadrun\key.dgn

VI-

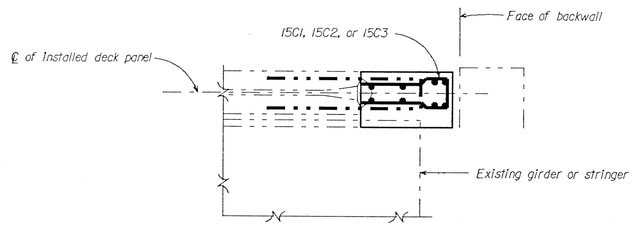
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
NC	VA	NPS-GWMP 1A75, 77	110	143



PLAN



SECTION A-A



TYPICAL SECTION

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION

GEORGE WASHINGTON MEMORIAL PARKWAY

BRIDGE OVER DEAD RUN
SOUTHBOUND

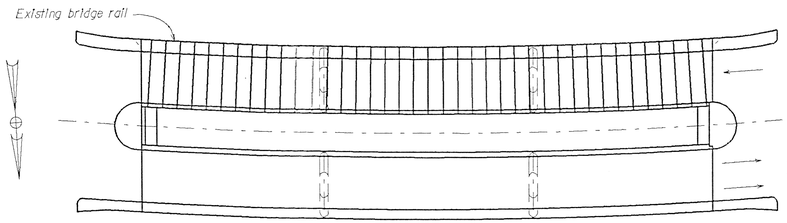
CAST-IN-PLACE DECK AT ABUTMENT #1

TEAM LEADER :		Gary Jakovich	DATE February 1996
DESIGNED BY	DRAWN BY	CHECKED BY	SCALE No scale
HHP	HHP	GSJ	Br. Dwg. No. 14 of 47

13-MAR-1997 09:01

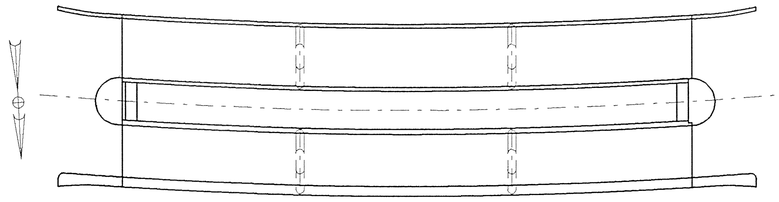
br2p3 /br3pl/usgs13/gwmpla75/deadrun/cast.dgn

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
NC	VA	GWMP IA75, 77	122	143



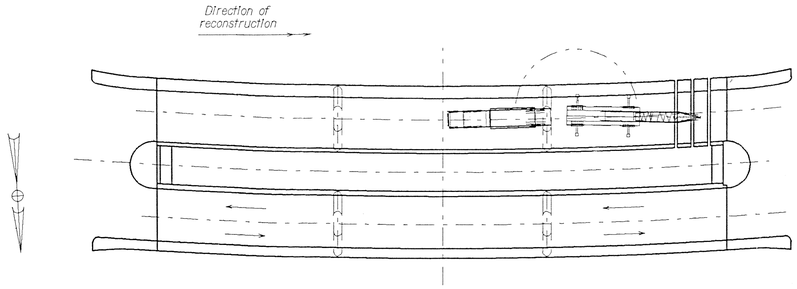
PHASE 1- Southbound

- Cut existing deck.
- Remove existing rail on edges of bridge.



PHASE 3 - Southbound

- Construct curb and rail
- Install expansion joints
- Place latex modified concrete overlay
- Reconstruct approach sidewalks and guardwall



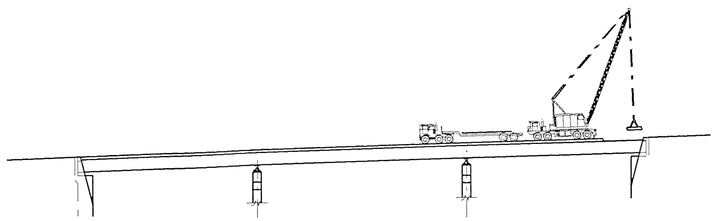
PHASE 2 - Southbound

(Reconstruct southbound bridge)

- Maintain crane and truck wheels on stringer lines.
- Maintain crane outriggers over girder lines.

PHASE 4 - Northbound

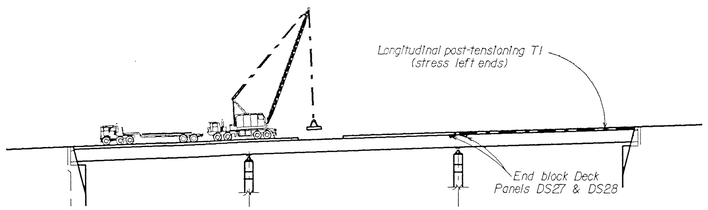
- Remove existing wearing surface
- Sawcut and remove existing expansion joints



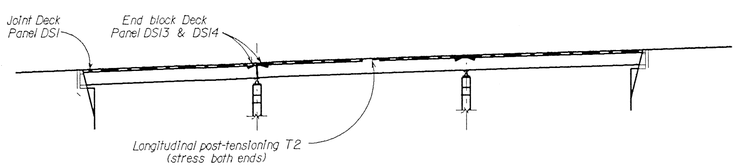
- Reconstruct Span 3
- Place steel plates over Abutment #2 expansion joint after first panel is in place
- Place steel plate over joint between new deck panel and existing concrete deck prior to opening the bridge to traffic

PHASE 5 - Northbound

- Install new expansion joints
- Place latex modified concrete overlay



- Stress longitudinal tendon T1 (Span 3)
- Reconstruct Span 2
- Place steel plate over joint between new deck panel and existing concrete deck prior to opening the bridge to traffic



- Stress longitudinal tendon T2 (Span 2)
- Reconstruct span 1
- Place steel plates over joints between new deck panel and existing concrete deck prior to opening the bridge to traffic
- Place steel plates over Abutment #1 expansion joint after last panel is in place
- Stress longitudinal tendons T1 (span 1)

Note:
Traffic control not shown

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
EASTERN FEDERAL LANDS HIGHWAY DIVISION

GEORGE WASHINGTON MEMORIAL PARKWAY

BRIDGE OVER DEAD RUN
NORTHBOUND AND SOUTHBOUND

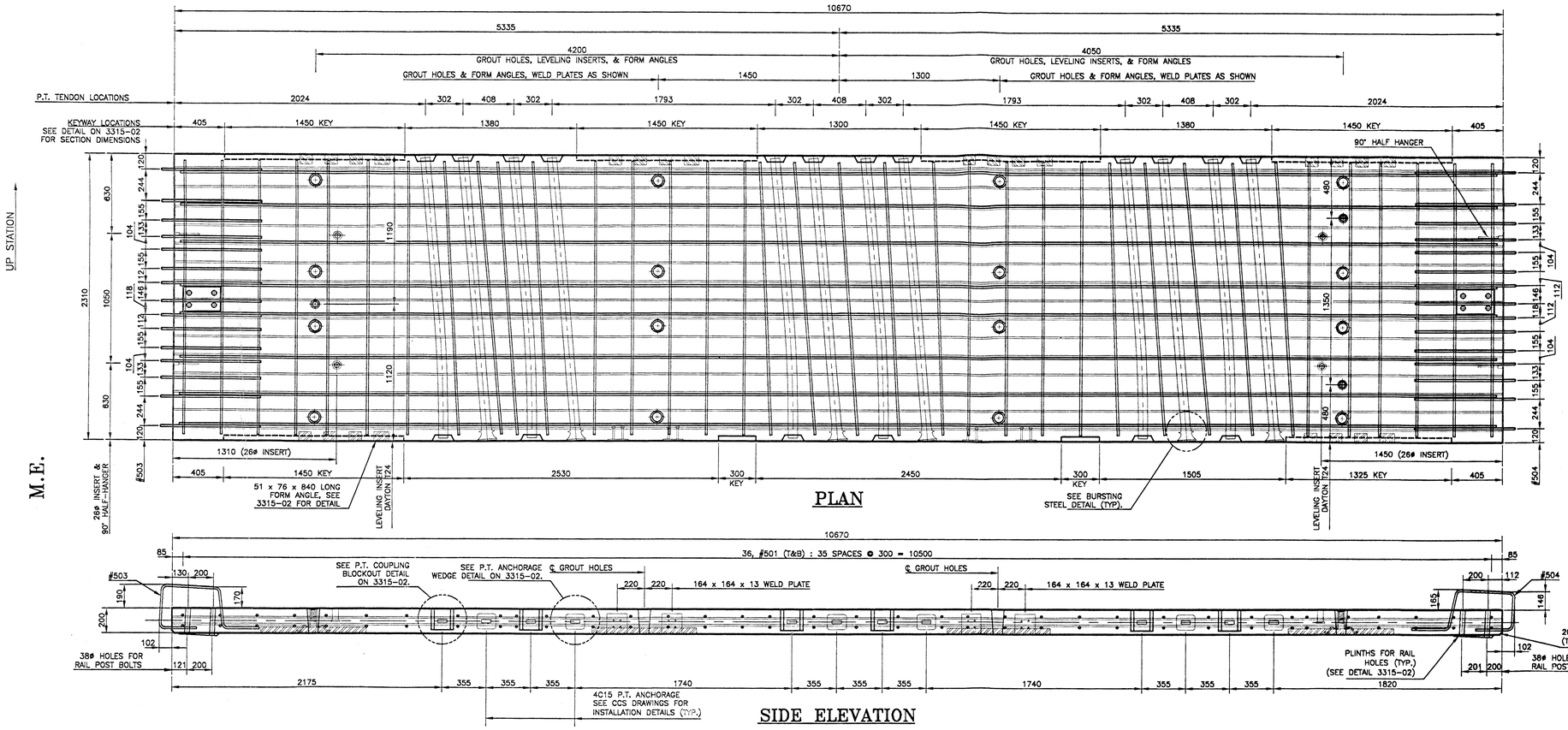
BRIDGE CONSTRUCTION SEQUENCE

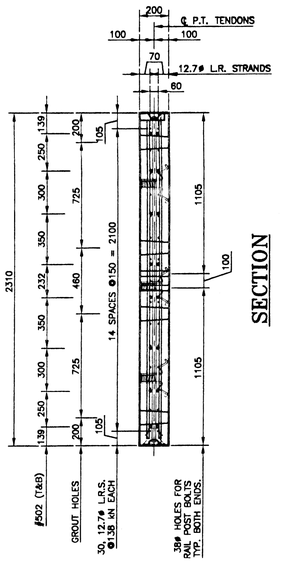
TEAM LEADER :		Gary Jakovich	DATE March 1995
DESIGNED BY	DRAWN BY	CHECKED BY	SCALE No scale
HHP	TGR/HHP	GSJ	Br. Dwg. No. 26 of 47

13-MAR-1997 09:21

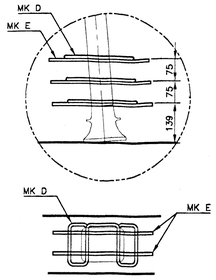
br2d3 /br3pl/usgd3/gwmpia75/headrun/consseq.fgn

NPS No.	F.H.W.A. REGION No.	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
850 41.937	NC	VA	GWMP 1A75, 77		

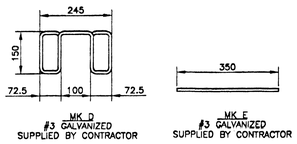




SECTION



BURSTING STEEL



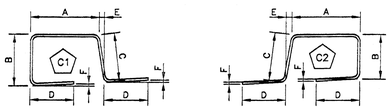
NOTES:

1) ALL REBAR MAY BE SHIFTED SLIGHTLY TO AVOID CONFLICTS WITH ALL GROUT HOLES, LEVELING INSERTS, RAIL POST HOLES, SCUPPER BLOCKOUTS, AND PRESTRESSING STRANDS.

(A) 2) FOR ALL GENERAL NOTES AND COMMON DETAILS, SEE DRAWING No. 3315-02.

3) FOR ALL POST-TENSIONING DETAILS, SEE CCS DRAWINGS.

4) ADDITIONAL "BURSTING STEEL" (SUPPLIED BY CONTRACTOR) IS LOCATED ON THE "DOWNSTATION" OR "M.E." FACE OF SLAB AT 4C15 ANCHORAGES ONLY.



MARK	REQ'D.	TYPE	PIN ø	LENGTH	A	B	C	D	E	F	WEIGHT kg
#504	15	C2	64	1715	470	310	335	300	(A) 55	15	40 kg
#503	15	C1	64	1765	470	360	335	300	55	15	41 kg
#502	16	STR.	---	10.570							262 kg
#501	72	STR.	---	2210							247 kg

REINFORCING STEEL SCHEDULE (EACH) GRADE 400, EPOXY COATED

MARK	REQ.	BILL OF MATERIALS-PER EACH (CONTRACTOR SUPPLIED)
	36	MK E GALVANIZED REINFORCEMENT
	18	MK D GALVANIZED REINFORCEMENT
	8	4C15 POST TENSIONING ANCHORAGE
	4	164 x 164 x 13 THICK WELD PLATES (EACH)
	4	90° HALF-HANGERS (EACH)
	4	26ø INSERTS (EACH)
	6	51 x 76 x 840 LONG FORM ANGLES (EACH)
	12	25 x 75 FLAT P.T. DUCT, 2310 LONG (EACH)
	3	DAYTON T24 COIL INSERT, 194 LONG, FOR 32ø BOLT
MARK	REQ.	BILL OF MATERIALS-PER EACH (BCP SUPPLIED)

PROJECT: PRA-NPS-GWMP 1A75, 77

REVISIONS
(A) JMW - 12/22/97 STRAND PATTERN, ELSE AS NOTED

SHIRLEY CONTRACTING

U.S. Department of the Interior
National Park Service
GEORGE WASHINGTON MEMORIAL PARKWAY
Rehabilitation of Bridges over Dead Run and Turkey Run

Prestressed Deck Slabs

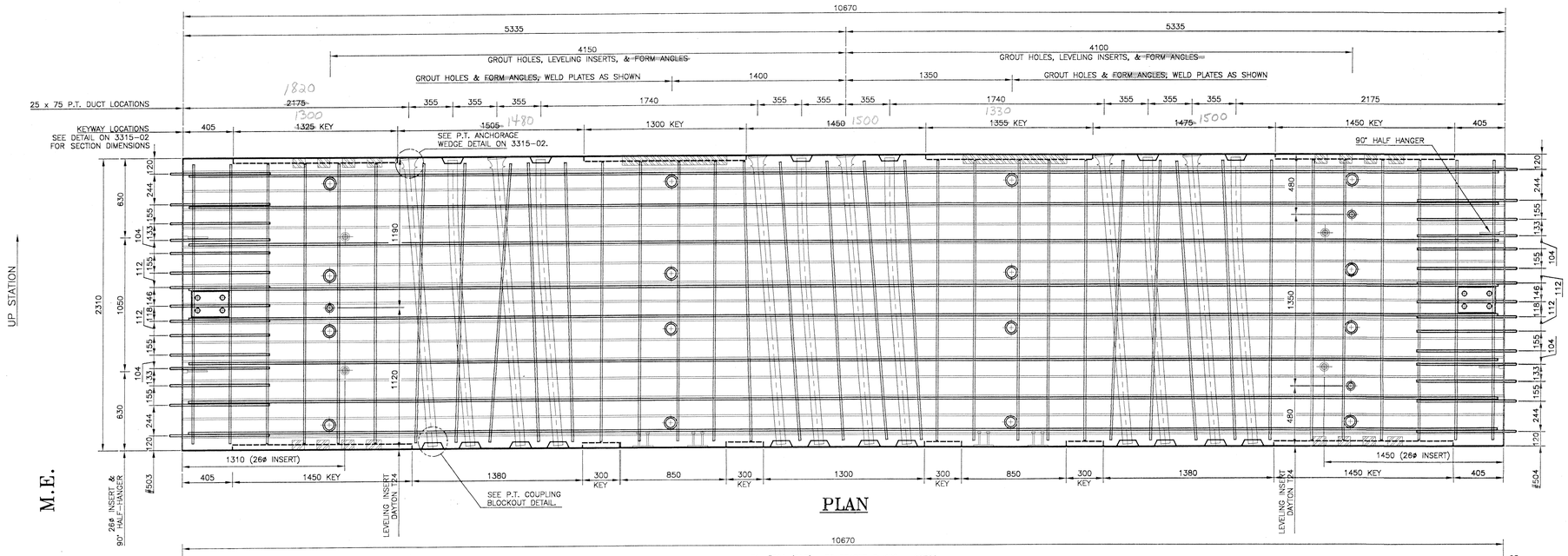
DS-13 SLAB DETAILS, 1 - REQ'D.

BAYSHORE CONCRETE PRODUCTS CORPORATION
P.O. BOX 250
CAPE CHARLES, VIRGINIA 23310

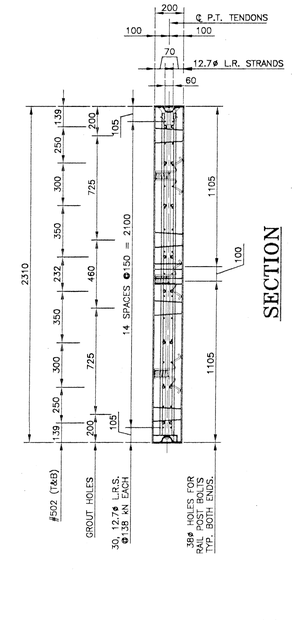
DRAWN BY: JMW 11/18/97
CHECKED BY:
SCALE: NONE

DRW No. 3315-07

NPS No.	F.H.W.A. REGION No.	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
850 41.937	NC	VA	GWMP 1A75, 77		

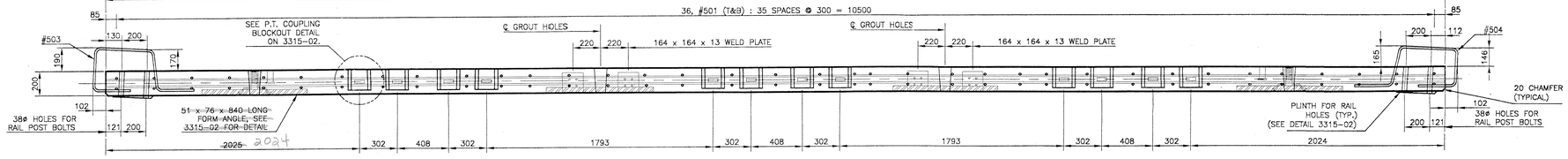


PLAN

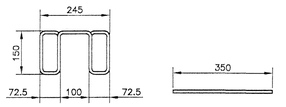


SECTION

M.E.



SIDE ELEVATION



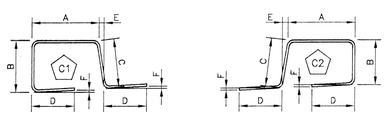
NOTES:

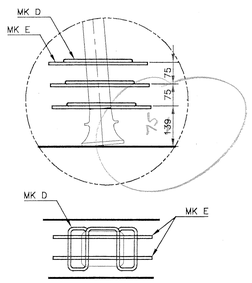
1) ALL REBAR MAY BE SHIFTED SLIGHTLY TO AVOID CONFLICTS WITH ALL GROUT HOLES, LEVELING INSERTS, RAIL POST HOLES, SCUPPER BLOCKOUTS, AND PRESTRESSING STRANDS.

(A) 2) FOR ALL GENERAL NOTES AND COMMON DETAILS, SEE DRAWING No. 3315-02.

3) FOR ALL POST-TENSIONING DETAILS, SEE CCS DRAWINGS.

4) ADDITIONAL "BUSRSTING STEEL" (SUPPLIED BY CONTRACTOR) IS LOCATED ON THE "UPSTATION" FACE OF SLAB AT 4C15 ANCHORAGES ONLY.





BURSTING STEEL

MARK	REQ'D.	TYPE	PIN ø	LENGTH	A	B	C	D	(A) E	F	WEIGHT kg
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REINFORCING STEEL SCHEDULE (EACH) GRADE 400, EPOXY COATED

MARK	REQ.	BILL OF MATERIALS-PER EACH (BCP SUPPLIED)
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	18	MK D GALVANIZED REINFORCEMENT
	4	164 x 164 x 13 THICK WELD PLATES (EACH)
	4	90° HALF-HANGERS (EACH)
	4	26ø INSERTS (EACH)
	6	51 x 76 x 840 LONG FORM ANGLES (EACH)
	6	4C15 POST TENSIONING ANCHORAGE

PROJECT: PRA-NPS-GWMP 1A75, 77

REVISIONS
(A) JMW - 12/22/97 STRAND PATTERN, ELSE AS NOTED

SHIRLEY CONTRACTING

U.S. Department of the Interior
National Park Service
GEORGE WASHINGTON MEMORIAL PARKWAY

Rehabilitation of Bridges over Dead Run and Turkey Run

Prestressed Deck Slabs

DS-14 SLAB DETAILS, 1 - REQ'D.

BAYSHORE CONCRETE PRODUCTS CORPORATION
P.O. BOX 230
CAPE CHARLES, VIRGINIA 23310

DRAWN BY: JMW 11/12/97
CHECKED BY:
SCALE: NONE

DRW No. 3315-08