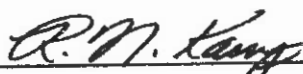


TO: SUPERSEDED BY EI 77-031 EFFECTIVE 5/1/1977	<h1>ENGINEERING INSTRUCTION</h1> <p>NEW YORK STATE DEPARTMENT OF TRANSPORTATION</p>
Distribution: <input type="checkbox"/> Main Office <input type="checkbox"/> Regions <input checked="" type="checkbox"/> Special	Code: <u>EI 75-27</u> Date: <u>4/10/75</u>
APPROVED:  Deputy Chief Engineer (Structures)	Supersedes: <div style="text-align: right; font-size: 1.5em; font-weight: bold;">Sup 77-50</div>

The attached pages are to be inserted under Guideline Drawings in the Manual.

GLD-G4 - Revised - Continuous Welded Plate Girder - Haunch Table - Camber Diagram and Pouring Sequence - Added

GLD-G3 - Added - Welded Plate Girder Details - Straight Girder

GLD-G6 - Added - Framing Plan and Bottom Lateral Connectors - Curved Girder

GLD-G7 - Added - Welded Plate Girder Details - Curved Girder

GLD-MB1 - Added - Curved Bridge Layout and Open Wingwall Elevation

GLD-S3 - Added - Framing Plan and Slab Reinforcement - Skews over 30°

GLD-S4 - Added - Transverse Section and Slab Reinforcement - Curved Structure.

FED. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
NEW YORK				
CAPITAL PROJECT IDENTIFICATION NO.				

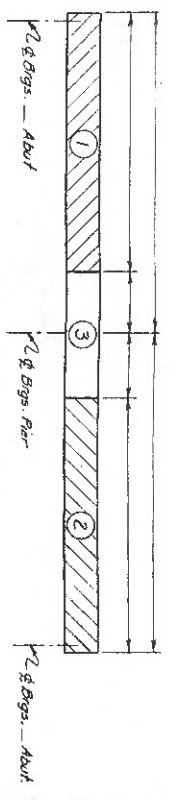
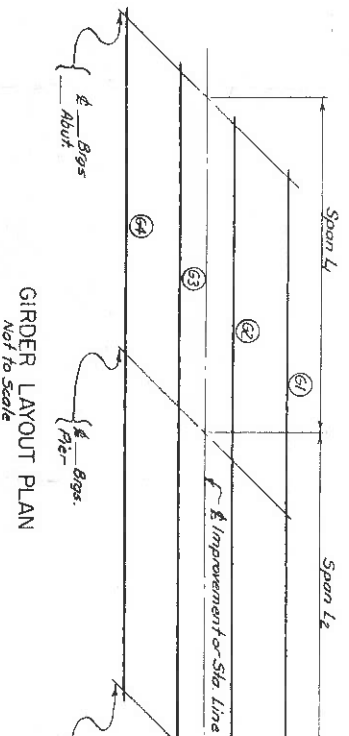
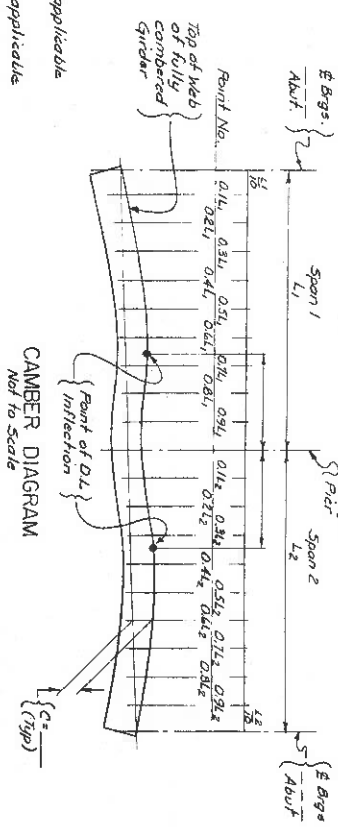
HAUNCH TABLE	GIRDER																								
	ABUTMENT	0.1L ₁	0.2L ₁	0.3L ₁	0.4L ₁	0.5L ₁	0.6L ₁	DL INFL POINT	0.7L ₁	0.8L ₁	0.9L ₁	PIER	0.1L ₂	0.2L ₂	0.3L ₂	DL INFL POINT	0.4L ₂	0.5L ₂	0.6L ₂	0.7L ₂	0.8L ₂	0.9L ₂	ABUTMENT		
1 Reg'd bottom of Slab Elevation																									
2 Top of Steel Elev. (Field Mass)																									
3 Concrete + S.D.L. Deflection																									
4 Depth of Haunch required (x) + (y)																									
5 Reg'd bottom of Slab Elevation																									
6 Top of Steel Elev. (Field Mass)																									
7 Concrete + S.D.L. Deflection																									
8 Depth of Haunch required (x) + (y)																									
9 Reg'd bottom of Slab Elevation																									
10 Top of Steel Elev. (Field Mass)																									
11 Concrete + S.D.L. Deflection																									
12 Depth of Haunch required (x) + (y)																									
13 Reg'd bottom of Slab Elevation																									
14 Top of Steel Elev. (Field Mass)																									
15 Concrete + S.D.L. Deflection																									
16 Depth of Haunch required (x) + (y)																									
17 Reg'd bottom of Slab Elevation																									
18 Top of Steel Elev. (Field Mass)																									
19 Concrete + S.D.L. Deflection																									
20 Depth of Haunch required (x) + (y)																									

Designer: The table above is shown for 2 span continuous girders. The table may be expanded for 3 span & 4 span continuous girders.

Designer/Detailer: Actual location of inflection points to be determined by design.

UNIT	LOAD/FT
Slab	K/ft
Haunch	K/ft
Girder	K/ft
S.I.P. Forms	K/ft
Daphragms	K/ft
Utilities	K/ft
Total	K/ft

Assumed Live Load - (use applicable loading, i.e. H320-44)



Notes: For additional tables see GLD-93

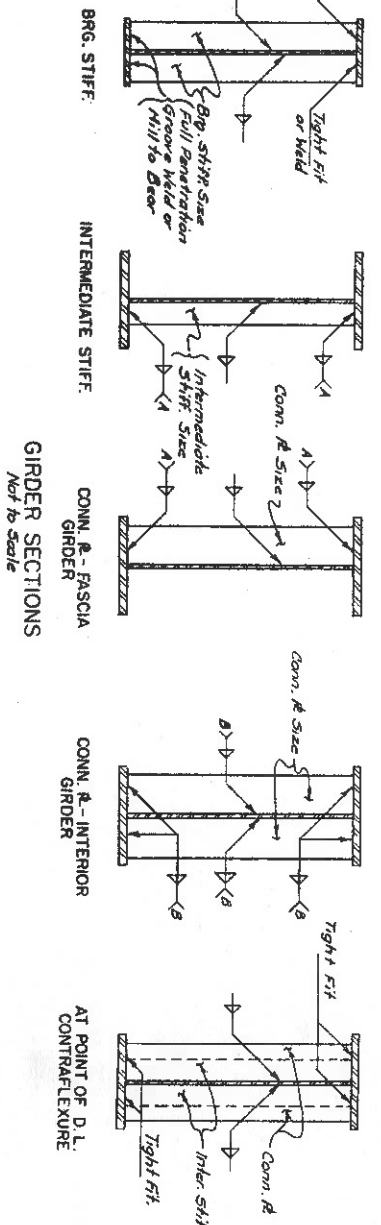
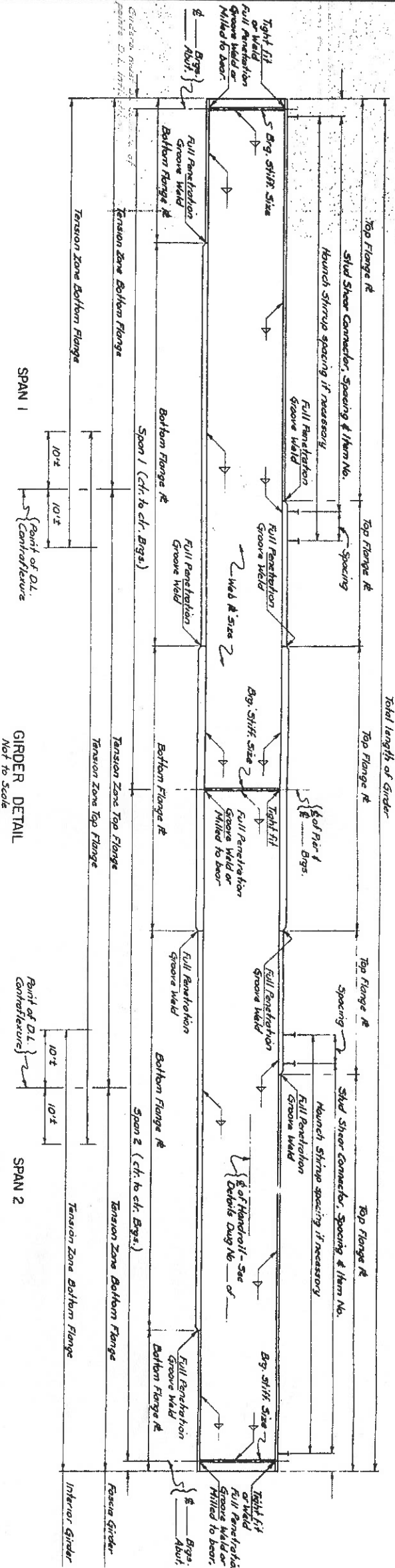
DATE MADE
PROJECT ENGINEER
IN CHARGE OF
DESIGNED BY
DESIGN CHECKED BY
DETAILED BY
DETAIL CHECKED BY

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION
SAMPLE DETAIL - SUPERSTRUCTURE
HAUNCH TABLE
WELDED R GIRDER
CONTINUOUS SPANS
DRAWING NO. GLD-54

REVISED APRIL 1975

FEED NO.	STATE	REGIONAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK			

CAPITAL PROJECT IDENTIFICATION NO.



GIRDER SECTIONS
Not to Scale

GIRDER DETAIL
Not to Scale

Welding Note #2
No welding of stiffeners or connection plates to tension flanges. Plates shall be tight fit.
Welding Note #3
All connection plates used in girders shall be welded to the web and be placed parallel to the stiffeners. This may be accomplished by cutting the connection plates tight against the tension flange and welding against the tension flange and web. Field connection plates shall not be driven in place with sufficient force to distort the flange, web or connection plates.

Detailer:
Include this note.

Note to the Contractor:
Within the tension zones delineated, there shall be no welding permitted other than what is detailed on the plans. Welding for the attachment of forms, lags, etc. shall not be permitted.

Designer:
Continuous Girders must be capable of being spliced at points D.L. inflection.

Notes:
For Haunch Detail see G.L.D.-MS1
For Stud Shear Connector Details see G.L.D.-MS4;
For Girder Tables see G.L.D.-G4 & G.L.D.-G5
For Schematic Girder Layout see G.L.D.-G4
For details of Flange Width and Thickness Transition see G.L.D.-MS1.

DATE MADE	PROJECT ENGINEER
BY CHARGE OF	DESIGNED BY
DESIGN CHECKED BY	DETAILD BY
DETAIL CHECKED BY	

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION
SAMPLE DETAIL -- SUPERSTRUCTURE
WELDED & GIRDER DETAILS
STRAIGHT GIRDER
CONTINUOUS SPANS
DRAWING NO. G.L.D.-G3

ADDED APRIL 1975

DATE MADE _____
 PROJECT ENGINEER _____
 IN CHARGE OF _____
 DESIGNED BY _____
 DESIGN CHECKED BY _____
 DETAILED BY _____
 DETAIL CHECKED BY _____

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

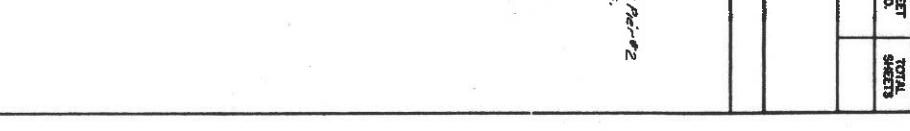
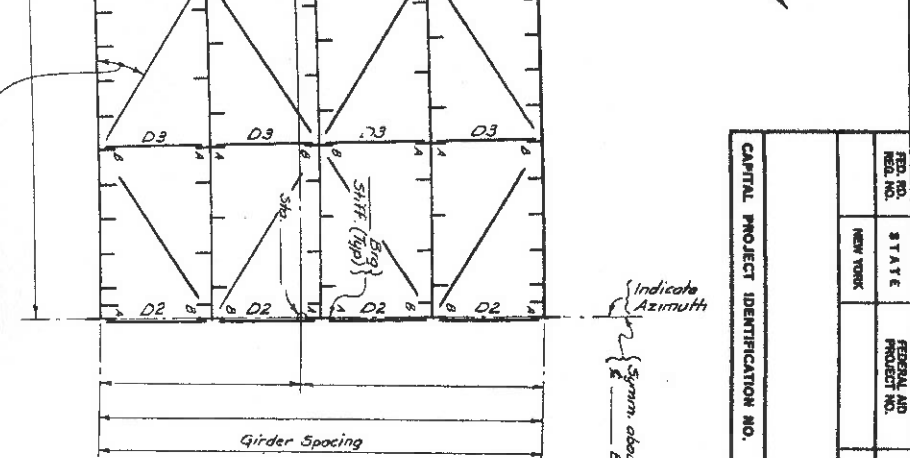
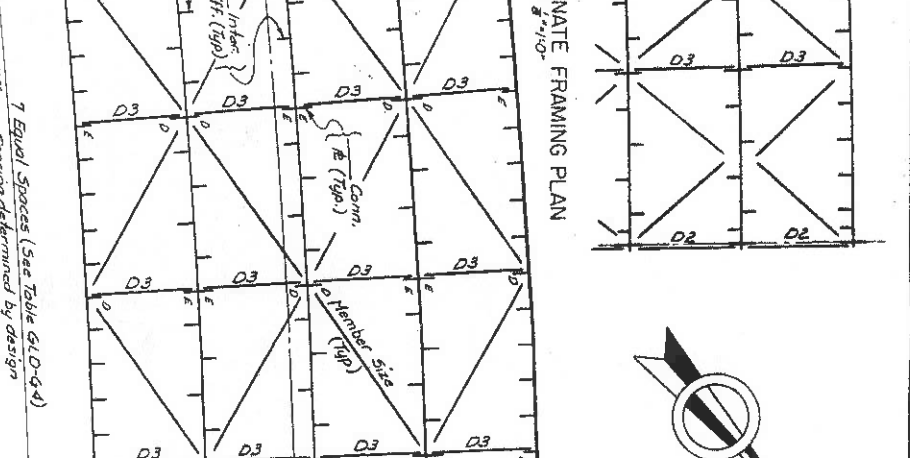
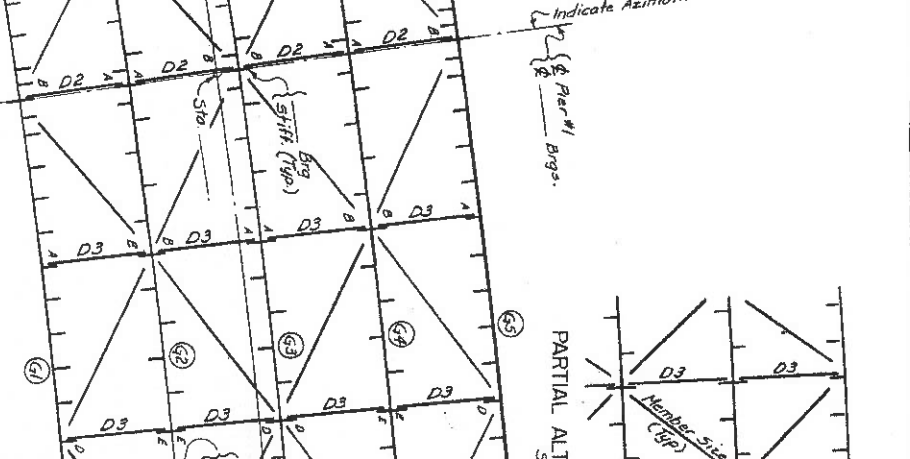
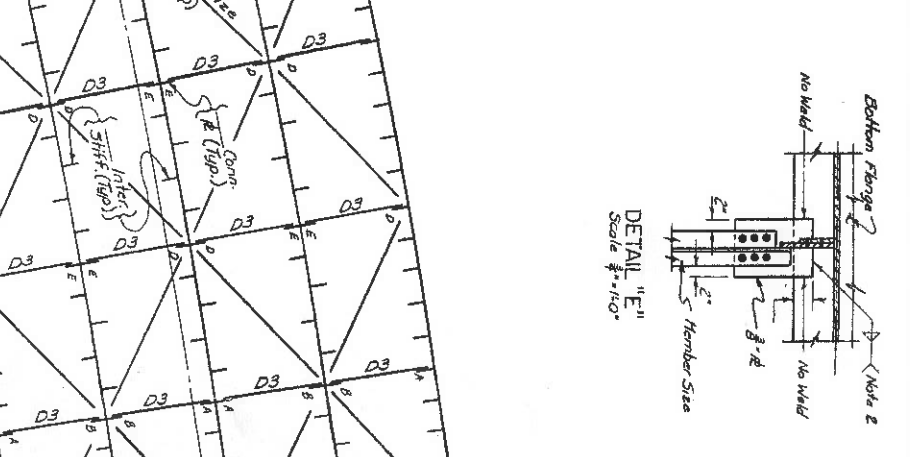
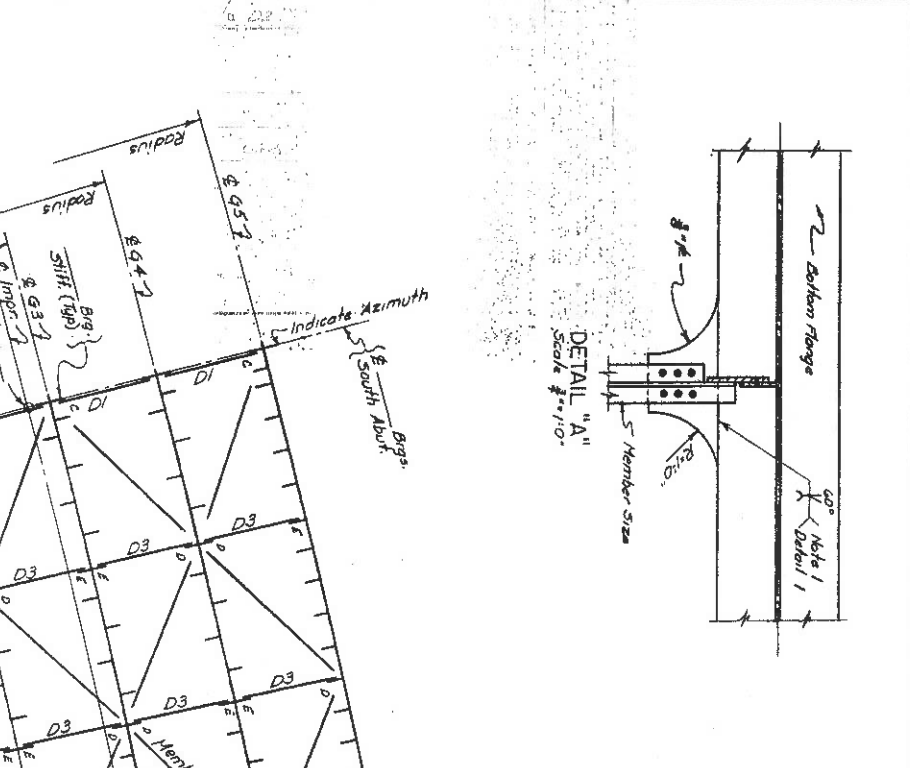
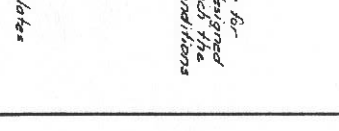
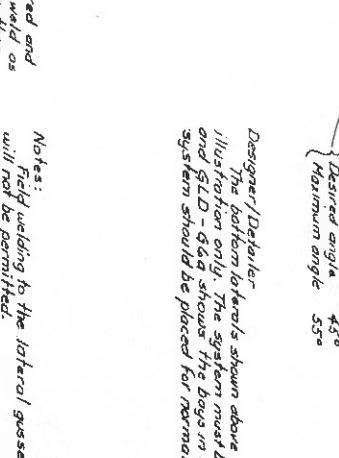
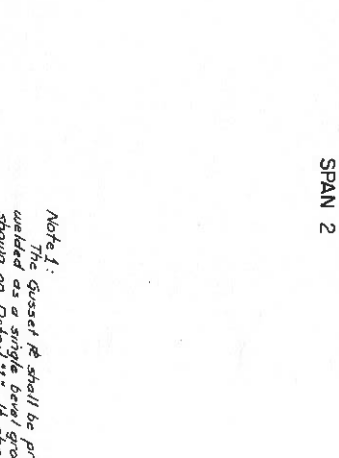
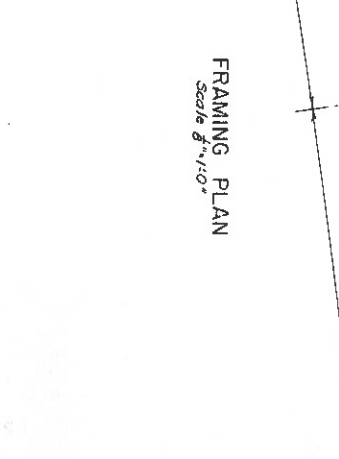
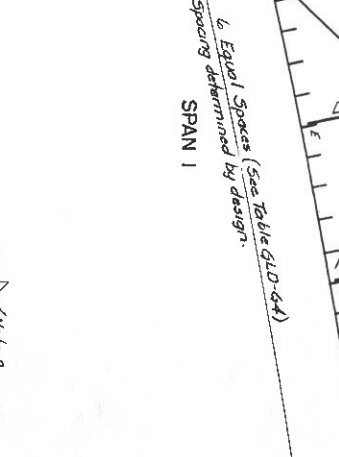
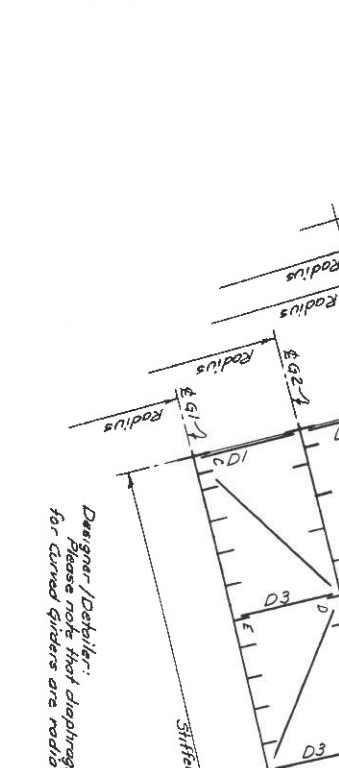
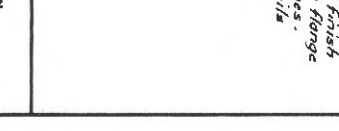
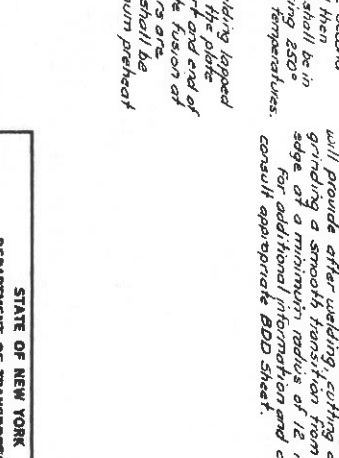
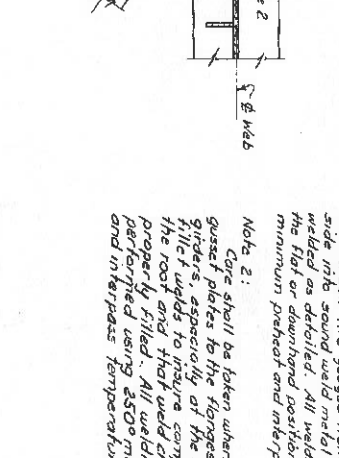
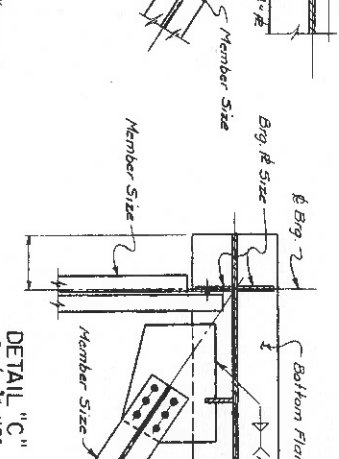
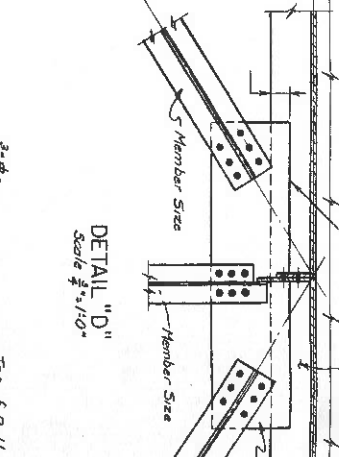
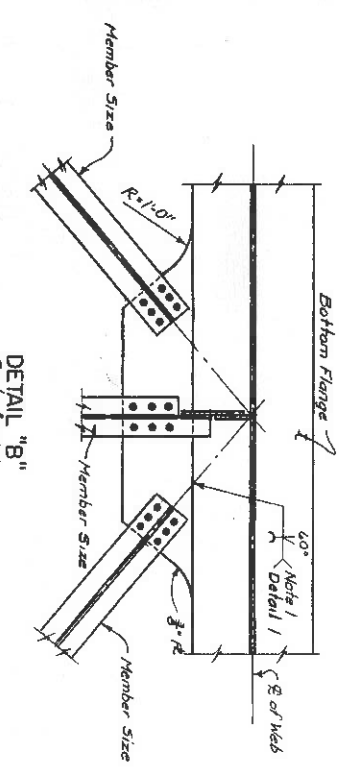
DETAIL "B"
 Scale 1/4"=1'-0"

DETAIL "C"
 Scale 1/4"=1'-0"

DETAIL "D"
 Scale 1/4"=1'-0"

DETAIL "E"
 Scale 1/4"=1'-0"

DETAIL "F"
 Scale 1/4"=1'-0"



Designer/Detailer: Please note that diaphragms for curved girders are radial.

Note 1: The gusset plate shall be prepared and welded as a single level groove weld as shown on Detail "I". It shall be then air-carbon arc gouged from the second side into sound weld metal and then welded as detailed. All welding shall be in minimum preheat and inter-pass temperatures.

Note 2: Care shall be taken when welding lapped gusset plates to the flanges of the plate girder, especially at the start and end of the roof deck to insure complete fusion of properly fitted. All welding shall be performed using 3500 minimum preheat and inter-pass temperatures.

Note 3: Field welding to the lateral gusset plates will not be permitted. The gusset plate may be of any shape that will provide a smooth transition from the flange edge of a minimum radius of 12 inches. For additional information and details consult appropriate BDD sheet.

Designer/Detailer: The bottom lateral shown above are for illustration only. The system must be designed and GLD-944 shows the system in which the system should be placed for normal conditions.

Minimum angle 35°
 Desired angle 45°
 Maximum angle 55°

REQ. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
NEW YORK				

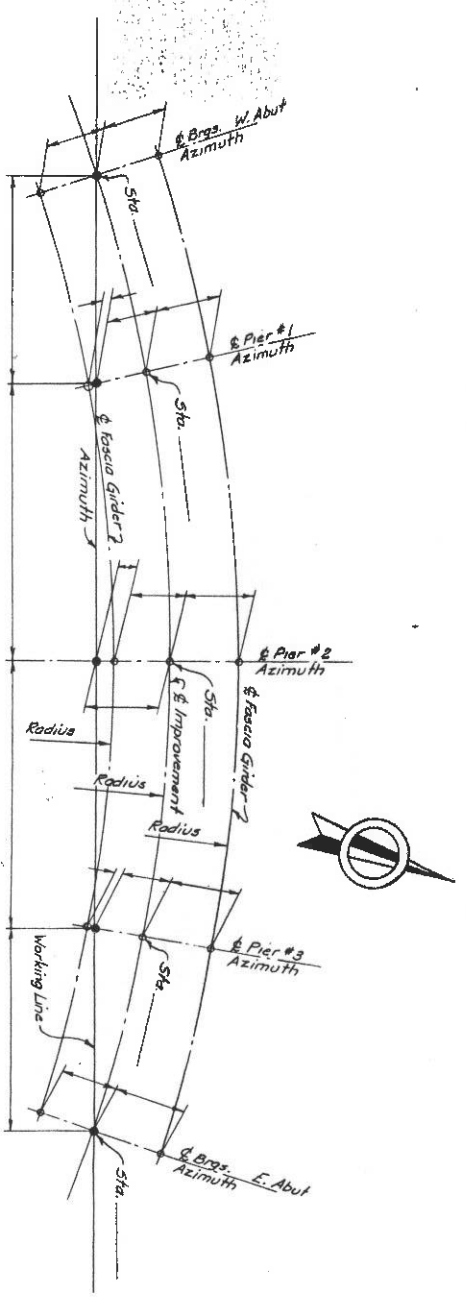
CAPITAL PROJECT IDENTIFICATION NO.

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF CONSTRUCTION
 SAMPLE DETAIL — SUPERSTRUCTURE
 FRAMING PLAN B
 BOTTOM LATERAL CONNECTIONS
 CURVED GIRDER
 CONTINUOUS SPANS
 DRAWING NO. GLD-946

ADDED APRIL 1975

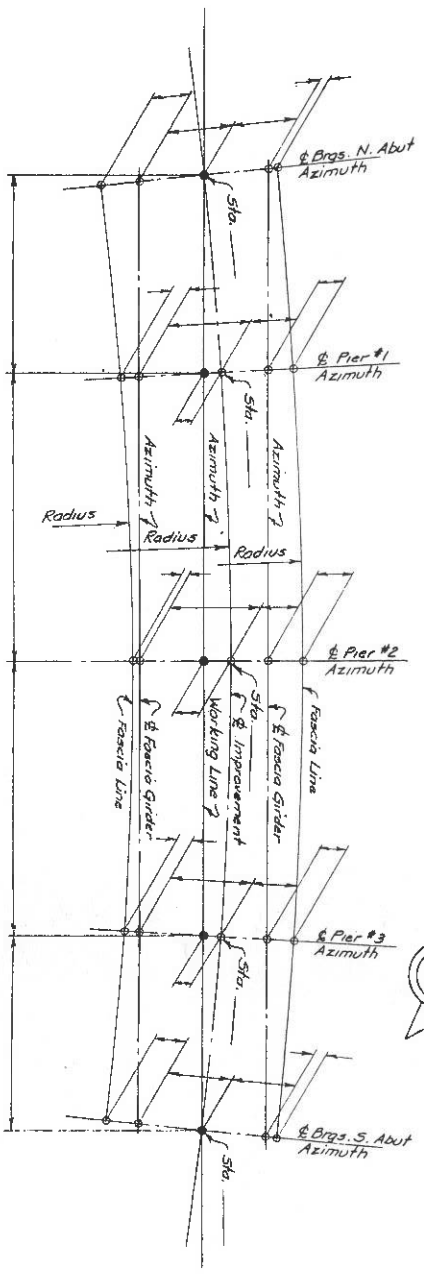
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	NEW YORK			

CAPITAL PROJECT IDENTIFICATION NO.

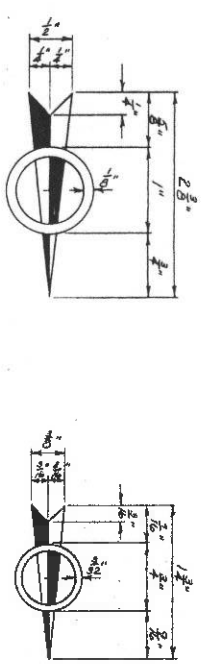


CURVED BRIDGE SCHEMATIC LAYOUT
CURVED GIRDER
Not to Scale

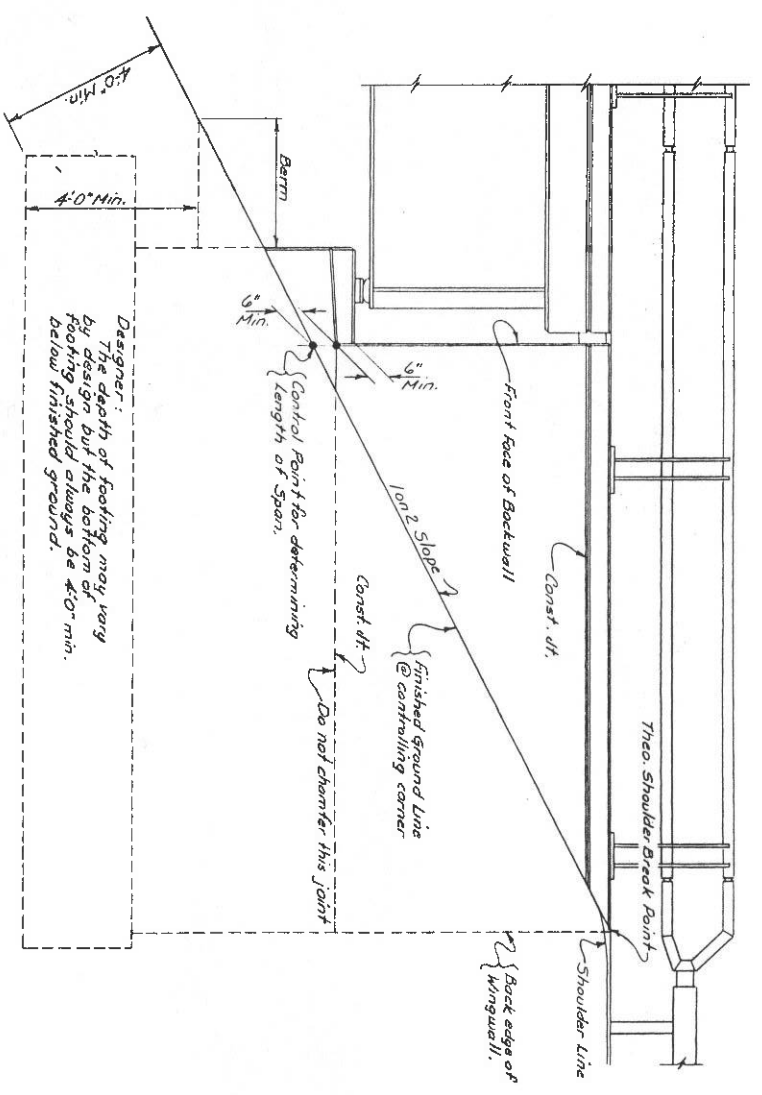
Designer/Detailer:
Please note that in both schematic drawings the ϕ of pier is shown radial. If the ϕ of pier is skewed in your particular structure the schematic layout would reflect this but dimensioning would remain basically the same as that shown.



CURVED BRIDGE SCHEMATIC LAYOUT
STRAIGHT GIRDER
Not to Scale



STANDARD NORTH ARROWS
Full Scale



OPEN WINGWALL ELEVATION
Scale $\frac{1}{4}''=1'-0''$

This area reserved for notes

DATE MADE	PROJECT ENGINEER
DESIGNED BY	DESIGN CHECKED BY
DETAILS BY	DETAIL CHECKED BY

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION
SAMPLE DETAIL - MISCELLANEOUS
CURVED BRIDGE LAYOUT
& OPEN WINGWALL ELEVATION
CONTINUOUS & SIMPLE SPANS
DRAWING NO. QLD-7181

ADDED APRIL 1975

