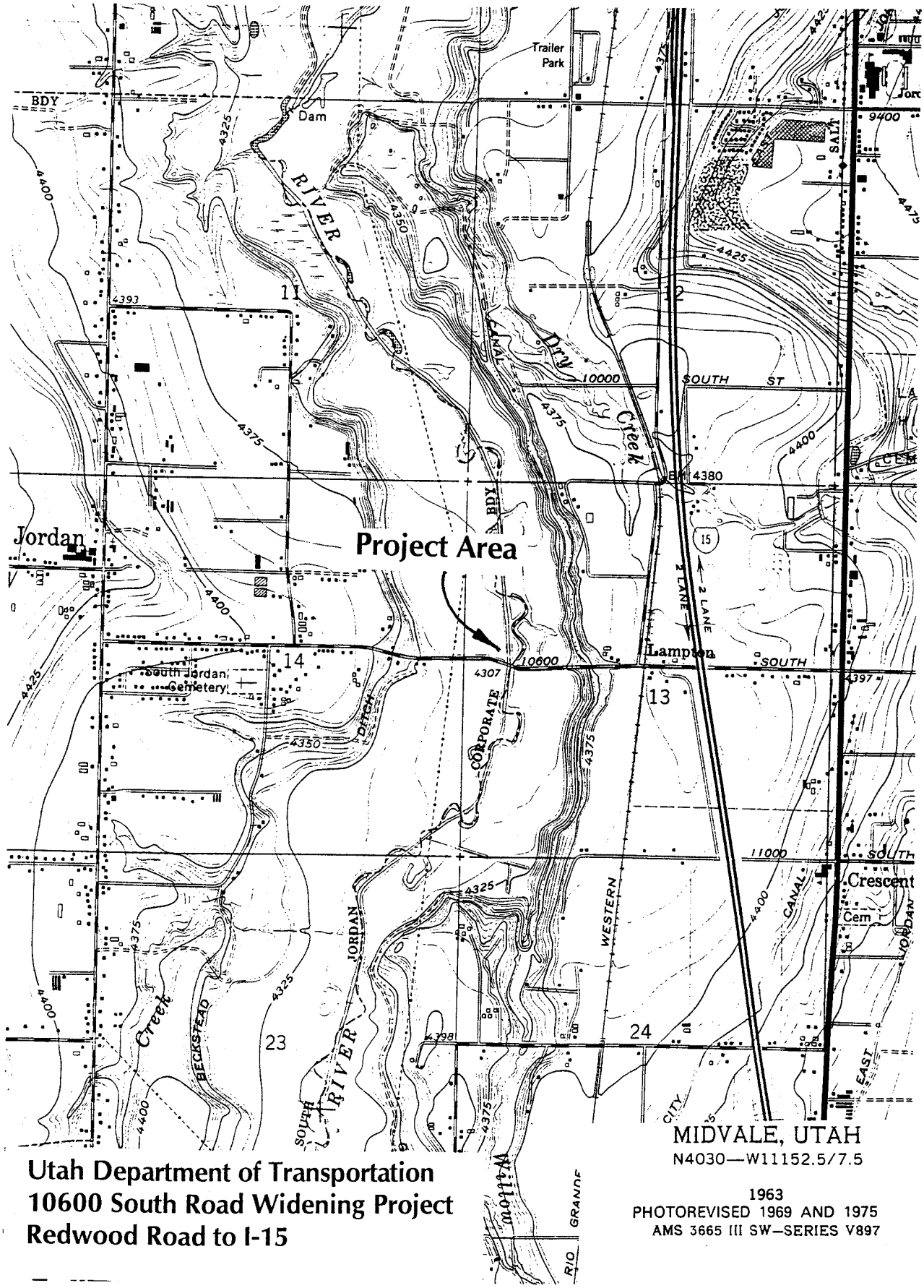
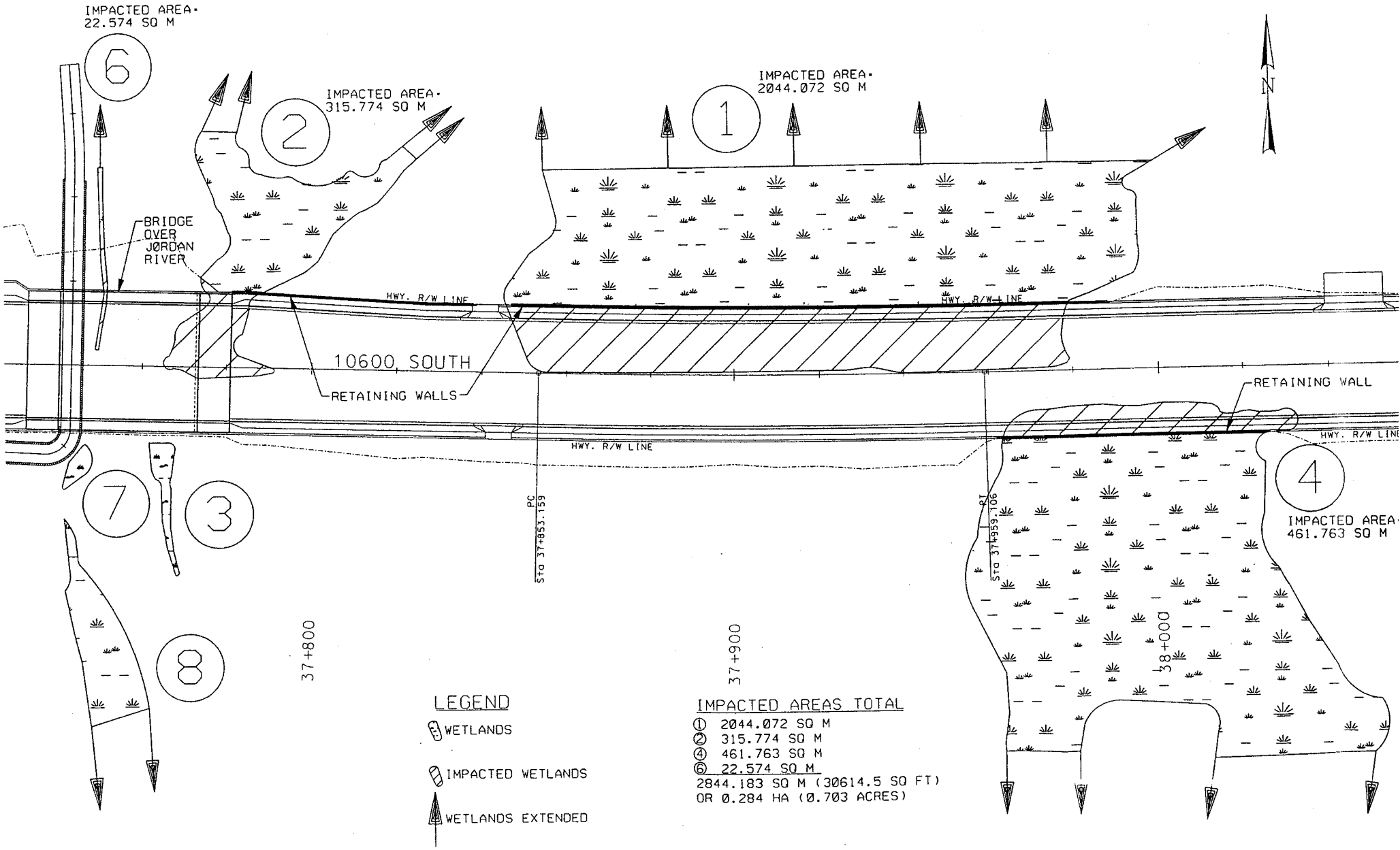
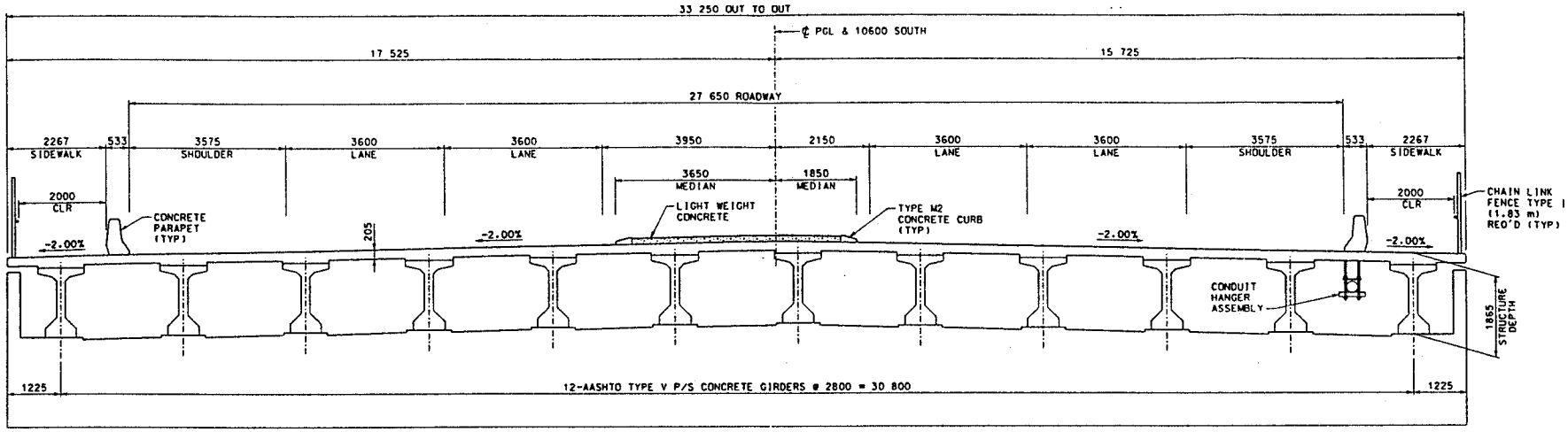


MIDVALE, UTAH
N4030—W11152.5/7.5

1963
PHOTOREVISED 1969 AND 1975
AMS 3665 III SW—SERIES V897

Utah Department of Transportation
10600 South Road Widening Project
Redwood Road to I-15

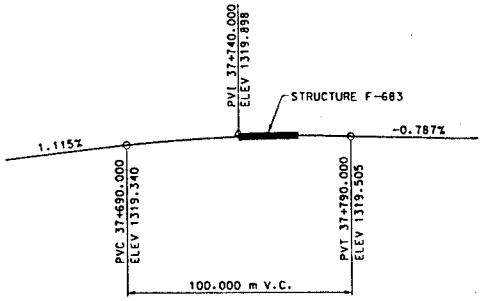

IMPACTED AREA-
22.574 SQ M
6
IMPACTED AREA-
315.774 SQ M
2
IMPACTED AREA-
2044.072 SQ M
1
N
BRIDGE
OVER
JORDAN
RIVER
HWY. R/W LINE
HWY. R/W LINE
10600 SOUTH
RETAINING WALLS
RETAINING WALL
HWY. R/W LINE
HWY. R/W LINE
7
3
PC
Sta 37+853.159
PT
Sta 37+959.106
4
IMPACTED AREA-
461.763 SQ M
8
37+800
37+900
38+000
LEGEND
WETLANDS
IMPACTED WETLANDS
WETLANDS EXTENDED
IMPACTED AREAS TOTAL
① 2044.072 SQ M
② 315.774 SQ M
④ 461.763 SQ M
⑥ 22.574 SQ M
2844.183 SQ M (30614.5 SQ FT)
OR 0.284 HA (0.703 ACRES)



SECTION

HYDRAULIC DATA

1.	DRAINAGE AREA	7920 50 Km
2.	DESIGN FREQUENCY	100 YR
3.	DESIGN DISCHARGE (Q_D)	84.950 m^3/s
4.	VELOCITY AT OUTLET FOR Q	1.504 m/s
5.	100-YR. DISCHARGE (Q_{100})	84.950 m^3/s
6.	FLOWLINE ELEVATION AT INLET	1312.900
7.	FLOWLINE ELEVATION AT OUTLET	1312.800
8.	WATER SURFACE ELEVATION AT INLET FOR Q_D	1316.129
9.	WATER SURFACE ELEVATION AT OUTLET FOR Q_D	1315.990
10.	WATER SURFACE ELEVATION AT INLET FOR Q_{100}	1316.129
11.	WATER SURFACE ELEVATION AT OUTLET FOR Q_{100}	1315.990
12.	500-YR. DISCHARGE (Q_{500})	135.920 m^3/s
13.	WATER SURFACE ELEVATION FOR Q_{500}	1316.517



10600 SOUTH PROFILE

UTAH DEPARTMENT OF TRANSPORTATION

URS

10400 SOUTH - 10600 SOUTH
REDWOOD ROAD TO I-15

10600 S. OVER JORDAN RIVER

SITUATION & LAYOUT 2

PROJECT NUMBER SP-015(10)

SALT LAKE COUNTY

F-683

SHEET NO. 2 OF X

DRAWN CER 06/00 CHECK DATE 06/00 PROJ. ENGR. CMI 06/00 REVIEW

DATE PROJECT DESIGN ENGINEER

APPROVED DATE PROJECT DESIGN ENGINEER

DWG. CHECK BY

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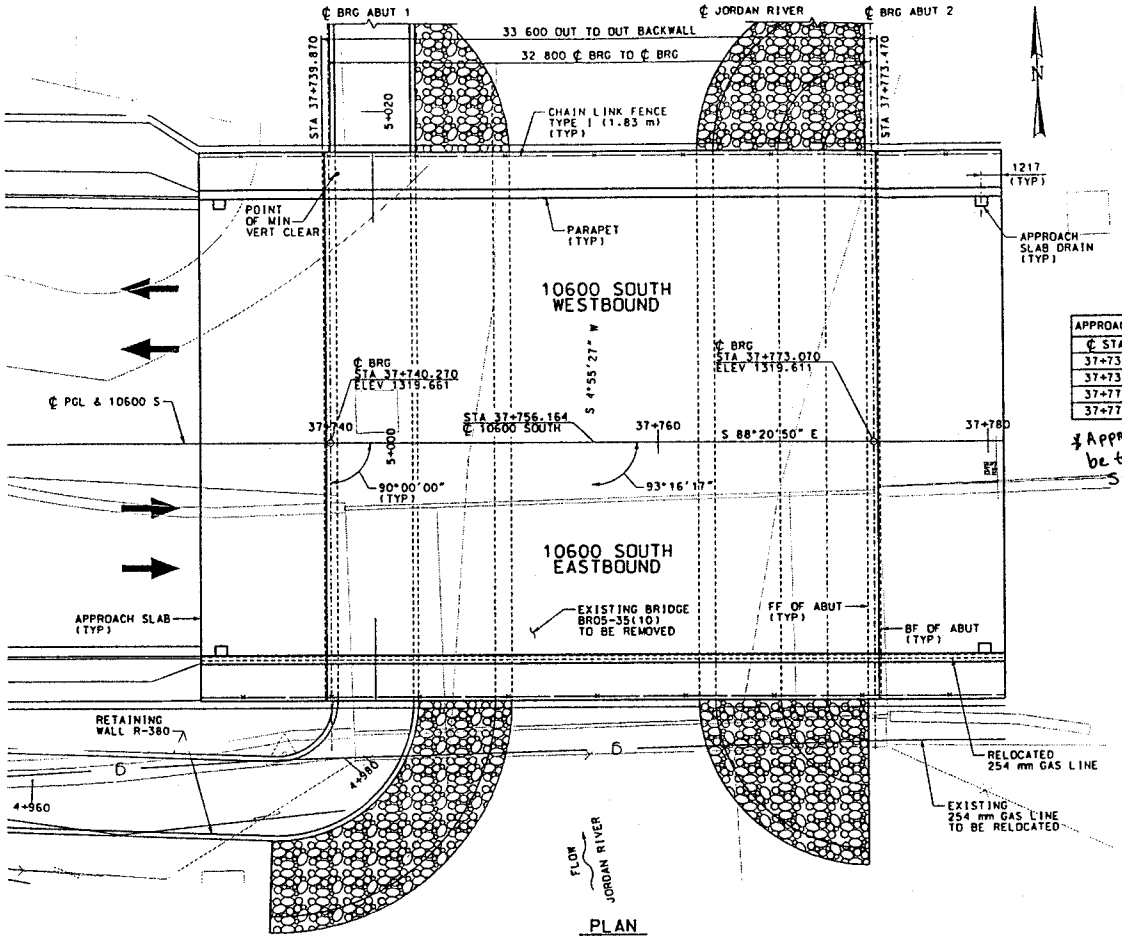
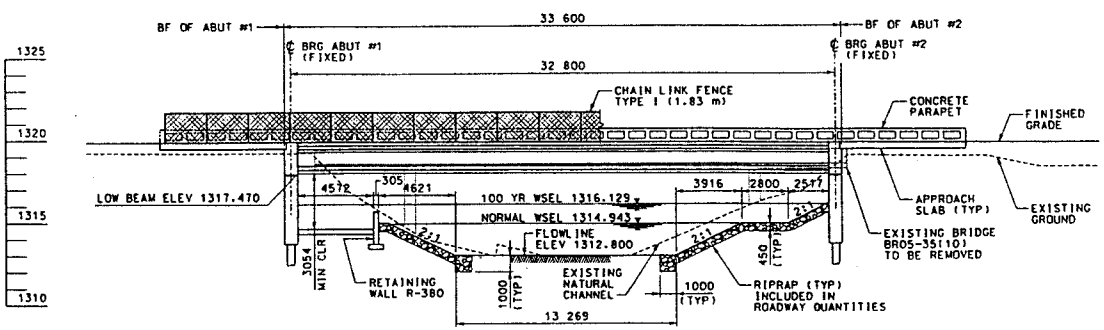
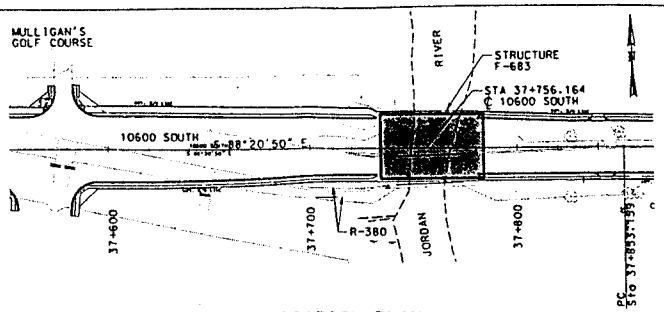


PLAN



ELEVATION



LOCATION PLAN

APPROACH SLAB DRAIN LOCATION	
℄ STATION	OFFSET
37+733.617	14.725 LEFT
37+733.617	12.925 RIGHT
37+779.723	14.725 LEFT
37+779.723	12.925 RIGHT

*Approach Slab drains to be tied into Storm Drain System

INDEX OF SHEETS

1. SITUATION & LAYOUT 1
2. SITUATION & LAYOUT 2
3. SOIL DATA
4. DRIVEN PILE DETAILS
5. FOUNDATION PLAN
6. ABUTMENT DETAILS 1
7. ABUTMENT DETAILS 2
8. PRESTRESSED BEAM DETAILS
9. BEAM BEARING DETAILS
10. DECK PLAN AND SECTION
11. DECK SECTIONS
12. FRAMING PLAN AND SCREED ELEVATIONS
13. APPROACH SLAB DRAIN DETAILS
14. APPROACH SLAB DETAILS
15. PARAPET DETAILS
16. CHAIN LINK FENCE DETAILS
17. REINFORCING STEEL SCHEDULE

GENERAL NOTES

1. ALL REINFORCING STEEL SHALL BE COATED DEFORMED BILLET-STEEL BARS CONFORMING TO AASHTO M 284 AND M 31M AND M 111 GRADE 400.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M 270M GRADE 250, EXCEPT WHERE NOTED OTHERWISE.
3. CHAMFER ALL EXPOSED CONCRETE CORNERS 20 mm EXCEPT WHERE NOTED OTHERWISE.
4. PROVIDE 50 mm CONCRETE COVER TO REINFORCING STEEL EXCEPT WHERE NOTED OTHERWISE.
5. ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS AA (AE) EXCEPT WHERE SPECIFIED OTHERWISE.
6. ALL DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE. ALL ELEVATIONS SHOWN ARE IN METERS.

DESIGN DATA

MS 18 (HS 20) OR INTERSTATE ALTERNATE LOADING IN ACCORDANCE WITH CURRENT AASHTO AND INTERIM SPECIFICATIONS.

CAST-IN-PLACE CONCRETE : fc= 10 MPa; fs (REINF)= 160 MPa; n= 8

PRESTRESSED CONCRETE: fc= 35 MPa; fs (NONPRESTRESSED)= 160 MPa; n=6

STRUCTURAL STEEL : fs = 138 MPa

WEARING SURFACE : 13 mm CONCRETE; 1.70 kPa (FUTURE)

DESIGN SPEED : 80 km/h 10600 SOUTH

QUANTITIES

ITEM	ESTIMATED	UNIT	AS CONST.
STRUCTURAL CONCRETE (EST. QTY. CU. METERS)	1	LUMP	
REINFORCING STEEL (COATED)		Kg	
STRUCTURAL STEEL (EST. QTY. Kg)	1	LUMP	
PRESTRESSED CONCRETE MEMBER (TYPE V)		EACH	
GRANULAR BACKFILL BORROW		CU. M.	
CHAIN LINK FENCE TYPE I (1.83 m)		LIN. M	
PILE DRIVING EQUIPMENT		LUMP	
DRIVEN PILES 324 mm DIA.		LIN. M	
REMOVE BRIDGE		EACH	

NO.	DATE	REVISION	CHECKED	PROJECT ENGINEER	REMARKS
		ORIGINAL SUBMISSION FOR AUTHORIZATION			

UTAH DEPARTMENT OF TRANSPORTATION

URS

DESIGN CDT 06/00	CHECK CMJ 06/00	REVIEW	
DRAWN CER 06/00	CHECK CDT 06/00	DATE	

APPROVAL RECOMM. DATE PROJECT DESIGN ENGINEER

10400 SOUTH - 10600 SOUTH REDWOOD ROAD TO I-15

10600 S. OVER JORDAN RIVER

SITUATION & LAYOUT 1

SALT LAKE COUNTY

F-683 DRG. NO.

SHEET NO. 1

16:02:10
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