UTAH DEPARTMENT OF TRANSPORTATION

STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

DWG. NO.	DESCRIPTION	DATE
	Advanced Traffic Management System (AT)	
AT 1	LEGEND SHEET	02-24-05
AT 2	RAMP METER DETAILS	02-24-05
AT 3	RAMP METER SIGN PANEL	02-24-05
AT 4	TYPICAL RAMP METER SIGNAL HEAD MOUNTING	04-28-05
AT 5	RAMP METER LOOP INSTALLATION	02-24-05
AT 6	CONDUIT DETAILS	02-24-05
AT 7	POLYMER-CONCRETE JUNCTION BOX DETAILS	02-23-06
AT 8	ATMS CABINET	02-24-05
AT 9	ATMS CABINET DISCONNECT AND TRANSFORMER FRAME	02-24-05
AT 10	CCTV MOUNTING DETAILS	02-24-05
AT 11	CCTV POLE DETAILS	02-23-06
AT 12	CCTV POLE FOUNDATION FOR DEDICATED CCTV POLE	02-24-05
AT 13	NOT USED	
AT 14	WEIGHT IN MOTION PIEZO DETAILS	02-24-05
AT 15	RWIS SITE AND FOUNDATION DETAILS	02-24-05
AT 16	RWIS TOWER BASE AND SERVICE PAD LAYOUT	02-24-05
AT 17	GROUND ROD INSTALLATION AND TOWER GROUNDING	02-24-05
AT 18	TMS DETECTION ZONE LAYOUT	02-24-05
	Barriers (BA)	
BA 1A	PRECAST CONCRETE FULL BARRIER STANDARD SECTION	02-23-06
BA 1B	PRECAST CONCRETE FULL BARRIER STANDARD SECTION	08-25-05
BA 1C	PRECAST CONCRETE BARRIER TERMINAL FOR SPEED ≤40 MPH	01-01-05
BA 1D	PRECAST CONCRETE FULL SECTION MEDIAN INSTALLATION	01-01-05
BA 1E	PRECAST CONCRETE FULL SECTION SHOULDER APPLICATIONS	01-01-05
BA 2	PRECAST CONCRETE HALF BARRIER STANDARD SECTION	01-01-05
BA 3A	CAST IN PLACE CONSTANT SLOPE BARRIER	02-24-05
BA 3B	PRECAST CONCRETE CONSTANT SLOPE TRANSITION SECTION FOR CRASH CUSHION AND W-BEAM GUARDRAIL	08-25-05
BA 4A	W-BEAM GUARDRAIL HARDWARE	01-01-05
BA 4B	W-BEAM GUARDRAIL TRANSITION	08-25-05
BA 4C	W-BEAM GUARDRAIL TRANSITION CURB SECTIONS	02-24-05
BA 4D	W-BEAM GUARDRAIL ANCHOR TYPE I	10-27-05
BA 4E	W-BEAM GUARDRAIL INSTALLATIONS	01-01-05
BA 4F	W-BEAM GUARDRAIL TYPICALS DIVIDED ROADWAYS	01-01-05
BA 4G	W-BEAM GUARDRAIL TYPICAL MULTILANE ARTERIAL	01-01-05
BA 4H	W-BEAM GUARDRAIL TYPICAL 2 LANE 2 WAY	01-01-05
BA 4I	W-BEAM GUARDRAIL BURIED IN BACKSLOPE TERMINAL	01-01-05
BA 4J	W-BEAM GUARDRAIL BURIED IN BACKSLOPE TERMINAL WITH RUB RAIL	01-01-05
BA 4K	W-BEAM GUARDRAIL BURIED IN BACKSLOPE TERMINAL ANCHOR	01-01-05
BA 4L	W-BEAM GUARDRAIL CURVE DETAILS	01-01-05
BA 4M	W-BEAM GUARDRAIL NESTED GUARDRAIL 12' 6" SPAN	01-01-05
BA 4N	W-BEAM GUARDRAIL NESTED GUARDRAIL 18' 9" SPAN	01-01-05
BA 4O	W-BEAM GUARDRAIL NESTED GUARDRAIL 25' SPAN	01-01-05
BA 4P	W-BEAM GUARDRAIL WITH PRECAST BARRIER FOR SPAN > 25'	01-01-05
BA 4Q	NOT USED	
BA 4R	W-BEAM GUARDRAIL MEDIAN BARRIER TRANSITION	10-27-05

DWG. NO.	DESCRIPTION	DATE
	Catch Basins and Cleanouts (CB)	
CB 1	CURB AND GUTTER INLET	04-28-05
CB 2	OPEN CURB INLET	04-28-05
CB 3	SHALLOW CATCH BASIN	04-28-05
CB 4	OPEN CURB SHALLOW CATCH BASIN	01-01-05
CB 5A	STANDARD CATCH BASIN AND CLEANOUT BOX	06-30-05
CB 5B	STANDARD CATCH BASIN AND CLEANOUT BOX SECTION	01-01-05
CB 6A	DROP INLET TYPE "A"	01-01-05
CB 6B	BERM APRON WITH DROP INLET TYPE "A"	01-01-05
CB 7A	DROP INLET TYPE "B"	01-01-05
CB 7B	NORMAL APRON WITH DROP INLET TYPE "B"	01-01-05
CB 8A	DOUBLE CATCH BASIN	01-01-05
CB 8B	DOUBLE CATCH BASIN	01-01-05
CB 9A	STANDARD CATCH BASIN AND CLEANOUT BOX SITUATION AND LAYOUT	01-01-05
CB 9B	STANDARD CATCH BASIN AND CLEANOUT BOX SECTION DETAILS	01-01-05
CB 9C	STANDARD CATCH BASIN AND CLEANOUT BOX SCHEDULE OF INSTALLATION 18" TO 42" RCP 12" TO 48" CMP	01-01-05
CB 9D	STANDARD CATCH BASIN AND CLEANOUT BOX SCHEDULE OF INSTALLATION 48" TO 66" RCP 60" TO 78" CMP	01-01-05
CB 10A	STANDARD CATCH BASIN AND CLEANOUT BOX SITUATION AND LAYOUT	01-01-05
CB 10B	STANDARD CATCH BASIN AND CLEANOUT BOX SECTION DETAILS	01-01-05
CB 10C	STANDARD CATCH BASIN AND CLEANOUT BOX SCHEDULE OF INSTALLATION 42" TO 60" RCP 48" TO 72" CMP	01-01-05
CB 11	STANDARD MANHOLE	01-01-05
	Crash Cushions (CC)	
CC 1	CRASH CUSHION MARKINGS	01-01-05
CC 2	CRASH CUSHION DRAINAGE DETAILS GUIDELINE A	01-01-05
CC 3	CRASH CUSHION DRAINAGE DETAILS GUIDELINE B	01-01-05
CC 4	DETAIL FOR PLACEMENT CRASH CUSHIONS TYPE A, B AND D	01-01-05
CC 5A	GRADING AND PLACEMENT DETAILS CRASH CUSHION TYPE C BRAKEMASTER	10-27-05
CC 5B	GRADING AND PLACEMENT DETAILS CRASH CUSHION TYPE C C.A.T.	10-27-05
CC 5C	GRADING AND PLACEMENT DETAILS CRASH CUSHION TYPE C FLEAT-MT	10-27-05
CC 6	CRASH CUSHION TYPE E SAND BARREL DETAILS	01-01-05
CC 7A	GRADING AND INSTALLATION DETAILS CRASH CUSHION TYPE F QUAD TREND 350	02-24-05
CC 7B	CRASH CUSHION TYPE F BEAT-SSCC	08-25-05
CC 8A	GRADING AND INSTALLATION DETAILS CRASH CUSHION TYPE G	04-28-05
CC 8B	GRADING AND INSTALLATION DETAILS FOR "3R" PROJECTS CRASH CUSHION TYPE G	04-28-05
CC 9A	GRADING AND INSTALLATION DETAILS CRASH CUSHION TYPE H	04-28-05
CC 9B	GRADING AND INSTALLATION DETAILS CRASH CUSHION TYPE H (PARABOLIC FLARE)	04-28-05
	Diversion Boxes (DB)	
DB 1A	STANDARD DIVERSION BOX/COVER PLATE/GRATING FOR 18" DIA. OR 24" DIA. PIPE	01-01-05
DB 1B	STANDARD DIVERSION BOX HINGED LID DETAILS FOR 18" DIA. OR 24" DIA. PIPE	01-01-05
DB 1C	STANDARD DIVERSION BOX BICYCLE-SAFE GRATING DETAILS FOR 18" DIA. OR 24" DIA. PIPE	01-01-05
DB 1D	STANDARD DIVERSION BOX THREE GATE BOX SECTIONS FOR 18" DIA. OR 24" DIA. PIPE	01-01-05
DB 1E	STANDARD DIVERSION BOX THREE GATE BOX SECTIONS FOR 18" DIA. OR 24" DIA. PIPE	01-01-05
DB 1F	STANDARD DIVERSION BOX THREE GATE BOX SECTIONS FOR 18" DIA. OR 24" DIA. PIPE	01-01-05
DB 2A	STANDARD DIVERSION BOX W/INTERCHANGEABLE WALLS, BOTTOM SLAB, WALLS AND APRON DETAILS	01-01-05
DB 2B	STANDARD DIVERSION BOX W/INTERCHANGEABLE WALLS, QUANTITIES SCHEDULE	01-01-05

DWG. NO.	DESCRIPTION	DATE
DB 2C	STANDARD DIVERSION BOX W/INTERCHANGEABLE WALLS, HAND SLIDE GATE DETAILS	01-01-05
DB 2D	STANDARD DIVERSION BOX TYPE "G" HAND SLIDE GATE DETAILS	01-01-05
DB 2E	STANDARD DIVERSION BOX HINGED LID (SOLID COVER PLATE) TYPE "A" DETAILS TYPE I PLAN	01-01-05
DB 2F	STANDARD DIVERSION BOX HINGED LID (SOLID COVER PLATE) TYPE "A" DETAILS TYPE II PLAN	01-01-05
DB 2G	STANDARD DIVERSION BOX HINGED LID SOLID COVER TYPE "B" DETAILS	01-01-05
DB 2H	STANDARD DIVERSION BOX HINGED LID SOLID COVER TYPE "B" AND "C" DETAILS	01-01-05
DB 3A	STANDARD DIVERSION BOX WITH MANHOLE COVER SITUATION AND LAYOUT	01-01-05
DB 3B	STANDARD DIVERSION BOX WITH MANHOLE COVER UP TO 42" RCP AND UP TO 54" CMP	01-01-05
DB 3C	STANDARD DIVERSION BOX WITH MANHOLE COVER 48" TO 72" RCP AND 60" TO 84" CMP	01-01-05
DB 4	STANDARD TRANSITION CONCRETE LINED DITCH TO PIPE OR DIVERSION BOX	01-01-05
	Design (DD)	
DD 1	SUPERELEVATION AND WIDENING	01-01-05
DD 2	SURFACE DITCH, BENCHED SLOPE, AND CUT DITCH DETAILS	01-01-05
DD 3	CLIMBING LANES	01-01-05
DD 4	GEOMETRIC DESIGN FOR FREEWAYS (ROADWAY)	04-28-05
DD 5	ENTRANCE AND EXIT RAMPS AT CROSSROADS	01-01-05
DD 6	ENTRANCE AND EXIT RAMP GEOMETRICS	01-01-05
DD 7	FREEWAY CROSSOVER	01-01-05
DD 8	STRUCTURAL GEOMETRIC DESIGN STANDARDS FOR CLEARANCES	01-01-05
DD 9	STRUCTURAL GEOMETRIC DESIGN STANDARDS	01-01-05
DD 10	RAILROAD CLEARANCES AT HIGHWAY OVERPASS STRUCTURES	01-01-05
DD 11	RURAL MULTI LANE HIGHWAYS OTHER THAN FREEWAYS	01-01-05
DD 12	RURAL TWO LANE HIGHWAYS	01-01-05
DD 13	FRONTAGE AND ACCESS ROADS (UNDER 50 ADT)	01-01-05
DD 14	TYPICAL RURAL 2 LANE ROAD WITH MEDIAN LANE AND DECELERATION LANE FOR INTERSECTING CROSSROADS	01-01-05
	Drainage (DG)	
DG 1	FILL HEIGHT FOR METAL PIPE (STEEL)	08-25-05
DG 2	FILL HEIGHT FOR METAL PIPE (ALUMINUM)	01-01-05
DG 3	MAXIMUM FILL HEIGHT FOR HDPE AND PVC PIPES	01-01-05
DG 4	PIPE MINIMUM COVER	01-01-05
DG 5A	PLASTIC PIPE CULVERT INSTALLATION	02-23-06
DG 5B	METAL PIPE OR PIPE ARCH CULVERT INSTALLATION	02-23-06
DG 5C	PRECAST CONCRETE PIPE CULVERT INSTALLATION	02-23-06
DG 6	SAFETY SLOPE END SECTION FOR CIRCULAR AND ARCHED PIPE	02-23-06
DG 7	GASKETTED JOINTS OR COUPLING BANDS FOR CMP	01-01-05
DG 8	METAL CULVERT END SECTION	01-01-05
DG 9	MISCELLANEOUS PIPE DETAILS	01-01-05
	Environmental Controls (EN)	
EN 1	TEMPORARY EROSION CONTROL (CHECK DAMS)	08-25-05
EN 2	TEMPORARY EROSION CONTROL (SILT FENCE)	08-25-05
EN 3	TEMPORARY EROSION CONTROL (SLOPE DRAIN AND TEMPORARY BERM)	08-25-05
EN 4	TEMPORARY EROSION CONTROL (DROP INLET BARRIERS)	08-25-05
EN 5	TEMPORARY EROSION CONTROL (PIPE INLET AND CURB INLET BARRIERS)	08-25-05
EN 6	TEMPORARY EROSION CONTROL (SEDIMENT TRAP AND STABILIZED CONSTRUCTION ENTRANCE)	08-25-05
EN 7	TEMPORARY EROSION CONTROL (STRAW BALE BARRIER)	08-25-05

☒ MARKED BOXES INDICATE DRAWINGS APPLICABLE TO THIS PROJECT

REVISIONS

NO.	DATE	APPR.	REMARKS
1	02/24/05	B.A.	CHANGE 1
2	04/28/05	B.A.	CHANGE 2
3	06/30/05	B.A.	CHANGE 3
4	08/25/05	B.A.	CHANGE 4
5	10/27/05	B.A.	CHANGE 5
6	02/23/06	B.A.	CHANGE 6

UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
SALT LAKE CITY, UTAH

RECOMMENDED FOR APPROVAL — FEB.23,2006 DATE
CHAIRMAN STANDARDS COMMITTEE
APPROVED — FEB.23,2006 DATE
DEPUTY DIRECTOR

STANDARD DRAWING INDEX SHEET

STANDARD DRAWING TITLE

STD DWG
1-B

DGN File:L:\Standard.Drawings\Imperial\2005Approved\ChangesApproved\sheetlb.dgn

01-MAR-2006