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

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01-MAR-2006