

CITY ENGR. — CHECK OUT SET #4



RECOMMENDED IMPROVEMENTS

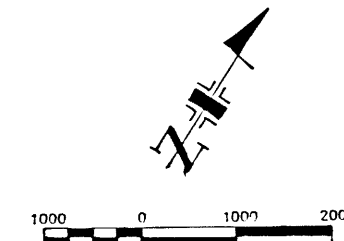
FOR DRAINAGE REACHES IN EL PASO COUNTY OUTSIDE (UPSTREAM) OF THE DETAILED AERIAL TOPOGRAPHICAL STUDY MAPPING.

REACH	HRC-1 FLOW w/det. (CFS)	CHANNEL LENGTH (FT)	EXISTING IMPROVEMENT	TOTAL BOTTOM WIDTH (FT)	TOTAL DEPTH (FT)	RECOMMENDED IMPROVEMENT
7 TO DESIGN POINT 8	2,322	3,000	NATURAL	80	4.5	NATURAL BOTTOM WITH GRAVEL/SAND DUNES & GRADE CONTROL (ENTER 10 GROUPS)
8 TO DESIGN POINT 7	1,715	3,500	NATURAL	80	5.0	NATURAL BOTTOM WITH GRAVEL/SAND DUNES & GRADE CONTROL (ENTER 10 GROUPS)
7 TO DESIGN POINT 6	854	3,500	NATURAL	50	4.5	NATURAL BOTTOM WITH GRAVEL/SAND DUNES & GRADE CONTROL (ENTER 10 GROUPS)
6 TO DESIGN POINT 5	673	7,000	NATURAL	50	4.0	NATURAL BOTTOM WITH GRAVEL/SAND DUNES & GRADE CONTROL (ENTER 10 GROUPS)
5 TO DESIGN POINT 4	870	3,000	VEG. LINING	50	4.0	GRADE CONTROL (10 GROUPS)
4 TO DESIGN POINT 3	467	3,500	VEG. LINING	20	4.0	GRADE CONTROL (10 GROUPS)
3 TO DESIGN POINT 2	335	3,500	VEG. LINING	20	4.0	NATURAL BOTTOM WITH GRAVEL/SAND DUNES & GRADE CONTROL (ENTER 10 GROUPS)
2 TO DESIGN POINT 1	114	2,300	NATURAL	20	3.0	NATURAL BOTTOM WITH GRAVEL/SAND DUNES & GRADE CONTROL (ENTER 10 GROUPS)
1A TO DESIGN POINT 9A	577	8,800	NATURAL	48" RCP	N/A	STONE DUNES
9A TO DESIGN POINT 9B	255	2,500	NATURAL	48" RCP	N/A	STONE DUNES
9B TO DESIGN POINT 8B	592	4,800	NATURAL	48" RCP	N/A	NATURAL BOTTOM WITH GRAVEL/SAND DUNES & GRADE CONTROL (ENTER 10 GROUPS)
8B TO DESIGN POINT 8C	594	4,000	NATURAL	60	3.5	NATURAL BOTTOM WITH GRAVEL/SAND DUNES & GRADE CONTROL (ENTER 10 GROUPS)
8C TO DESIGN POINT 8D	973	3,000	NATURAL	60	4.0	NATURAL BOTTOM WITH GRAVEL/SAND DUNES & GRADE CONTROL (ENTER 10 GROUPS)
8D TO DESIGN POINT 8E	330	4,400	NATURAL	60" RCP	N/A	STONE DUNES
8E TO DESIGN POINT 8F	552	4,000	NATURAL	50	3.5	NATURAL BOTTOM WITH GRAVEL/SAND DUNES & GRADE CONTROL (ENTER 10 GROUPS)
8F TO DESIGN POINT 8G	179	3,000	NATURAL	48" RCP	N/A	NATURAL BOTTOM WITH GRAVEL/SAND DUNES & GRADE CONTROL (ENTER 10 GROUPS)
8G TO DESIGN POINT 8H	412	3,000	NATURAL	40	4.0	NATURAL BOTTOM WITH GRAVEL/SAND DUNES & GRADE CONTROL (ENTER 10 GROUPS)
8H TO DESIGN POINT 5	118	3,900	NATURAL	20	3.0	NATURAL BOTTOM WITH GRAVEL/SAND DUNES & GRADE CONTROL (ENTER 10 GROUPS)

LOCATION	HRC-1 FLOW w/det. (CFS)	BRIDGE LENGTH (FT)	EXISTING IMPROVEMENT	TOTAL BOTTOM WIDTH (FT)	TOTAL DEPTH (FT)	RECOMMENDED IMPROVEMENT
BRIARGATE PKWY (DP 8E)	861	180	N/A	12	9	12" x 8" CONCRETE BOX CULVERT
BRIARGATE PKWY (DP 5)	673	180	N/A	10	8	12" x 8" CONCRETE BOX CULVERT
TOLEIN ROAD (ARROYO DP 5)	870	60	HP - 2' x 8' x 48"	12	9	12" x 8" CONCRETE BOX CULVERT
WICKERMAN ROAD (DP 3)	335	60	CRP - 36" 2872" RCP	N/A	N/A	2' x 12" REINFORCED CONCRETE PIPE
HUNTERS ROAD (ARROYO DP 5)	235	70	CRP - 48" 2872" RCP	N/A	N/A	2' x 12" REINFORCED CONCRETE PIPE
HUNTERS ROAD (DP 2)	114	70	N/A	48" RCP	N/A	48" REINFORCED CONCRETE PIPE
HEWING ROAD (DP 1)	81	60	N/A	42" RCP	N/A	42" REINFORCED CONCRETE PIPE

BASED ON THE REACHES/CULVERTS LISTED ON THIS SHEET, APPROXIMATELY 13.3 ACRES OF ENVIRONMENTALLY CLASSIFIED AREAS WILL BE DISTURBED OR DESTROYED AND REQUIRE MITIGATION.

LOCATION	HRC-1 FLOW w/det. (CFS)	EXISTING IMPROVEMENT	PROPOSED IMPROVEMENT
CITY BRIDGES			
BRIARGATE PKWY (DP 8E)	1,632	N/A	TRIPLE 18" x 8" CIRC
BLACK PINE ROAD (DP 7)	854	BRIDGE, T-40, 10-24, 20-17	REPLACE FOR 5 LANE ARTERIAL, 70' x 110'



LEGEND:

- A1 SUB-BASIN DESIGNATION
- △ DESIGN POINT
- MAJOR BASIN BOUNDARY
- SUB-BASIN BOUNDARY

SHEET INDEX:

MAPPING:

ENGINEER:

URS
CONSULTANTS
MAKING TECHNOLOGY WORK
1040 SOUTH EIGHTH STREET
COLORADO SPRINGS, CO. 80906
(719)634-6899

PROJECT:

COTTONWOOD CREEK DRAINAGE BASIN PLANNING STUDY
OVERALL BASIN MAP
SCALE 1"=1000' CONTOUR INTERVAL=2'
FIGURE 2 SHEET OF