

**PROPOSED BMP's  
XTO ENERGY, INC.**

**Certificate to Discharge Under CDPS General Permit No. COR-03000 Stormwater Discharges  
Associated with Construction. Certification No. COR-03C728**

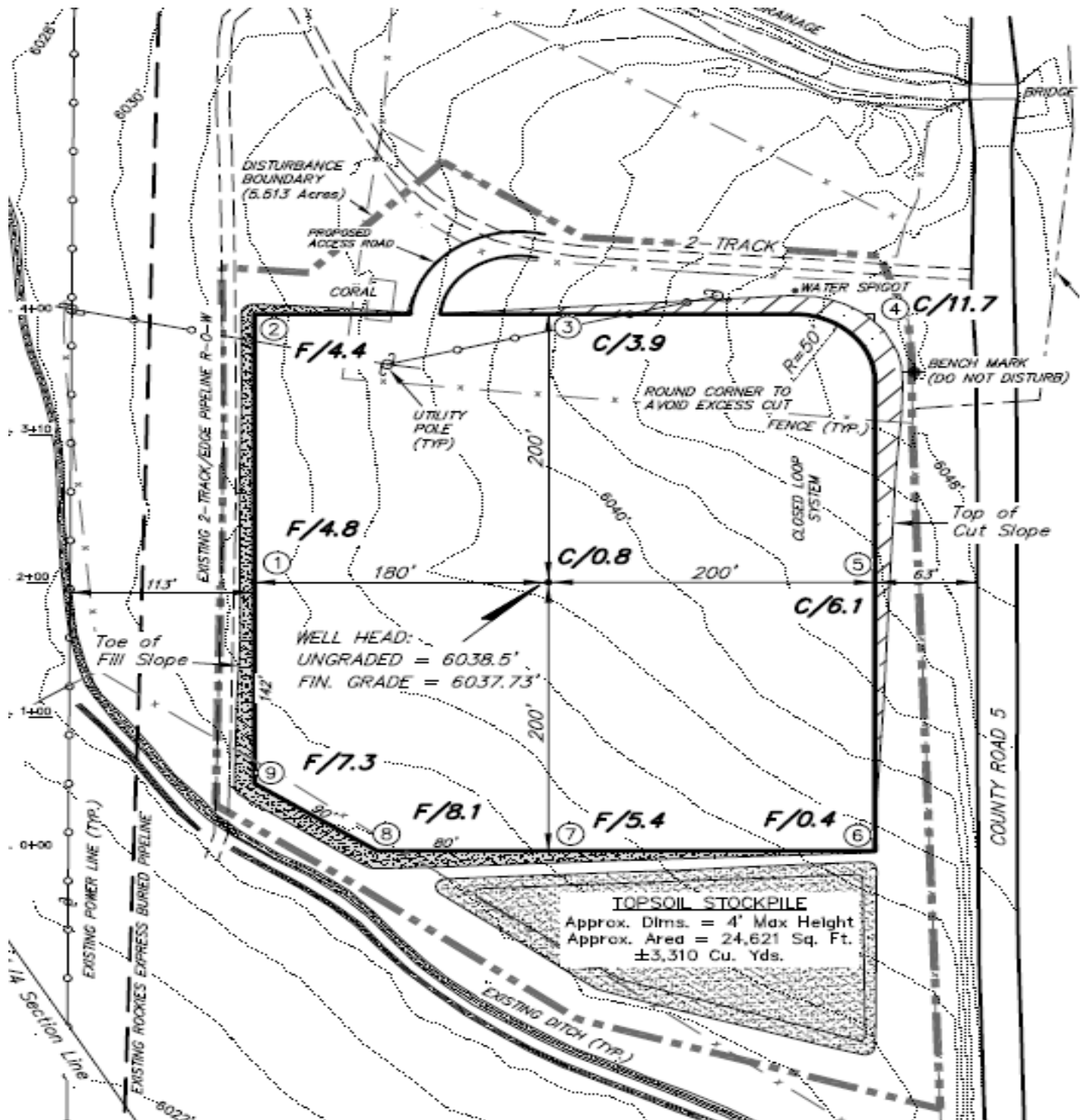
- A Field Wide Stormwater Management Plan (SWMP) for the Piceance Creek Program is on file at the XTO Energy Inc. (21459 CR5, Rifle, CO, 81650) office. A Site Specific SWMP including a Site Plan will be developed for each location.
- Spill Prevention, Control and Countermeasures (SPCC) for the Piceance Creek Program is on file at the XTO Energy Inc. (21459 CR5, Rifle, CO, 81650) office. The Field Wide and Site Specific SWMPs each address SPCC during construction operations.
- Inspections of the project site and maintenance of installed BMP's shall be conducted in accordance with the CDPHE CDPS permit and field wide plan.
- The attached Table 1 lists BMP's which may be utilized during the construction phase and in development of the Site Specific SWMP. BMP selection is based on site specific conditions including topography, existing vegetation, timing, construction sequencing, etc.

**Table 1**

<b>Stormwater Management BMPs</b>		
<b>Erosion Control BMPs (EC)</b>	<b>Sediment Control BMPs (SC)</b>	<b>Materials Handling and Spill Prevention BMPs (MH)</b>
Seeding	Erosion Bale	Stockpile Management
Mulching	Erosion Logs	Material Management
Mulch Tackifier	Silt Fence	Material Use
Soil Binder	Storm Drain Inlet Protection	Spill Prevention and Control
Erosion Control Blankets	Sediment Trap	
Turf Reinforcement Mats	Sediment Basin	
Embankment Protector	Dewatering Structure	
Berm/Diversion	Stabilized Construction Entrance	
Check Dams	Brush Barrier	
Outlet Protection	Gravel Barrier	
Temporary Drainage Swale	Silt Barrier	
Grading Techniques		
<b>Waste Management BMPs (WM)</b>	<b>General Pollution Prevention BMPs (GP)</b>	<b>Alternate (ALT) BMP's</b>
Concrete Waste Management	Dewatering Operations	ALT 1 Run On Diversion
Solid Waste Management	Temporary Stream Crossing	ALT 2 Gabion Basket Outlet Protection
Sanitary and Septic Waste Management	Clear Water Diversion	ALT 3 Gabion Basket Retaining Wall
Liquid Waste Management	Non-Stormwater Discharge Management	ALT 4 Surface Crowning and Road Base/Gravel
Hazardous Waste Management	Wind Erosion Control	ALT 5 Armour
Contaminated Waste Management	Paving Operations	ALT 6 Sediment Control Device
	Street Sweeping and Vacuuming	ALT 7 Water Turnout
	Vehicle and Equipment Management	ALT 8 Bell Hole
		ALT 9 Permanent Slope Breakers (Water Bars)

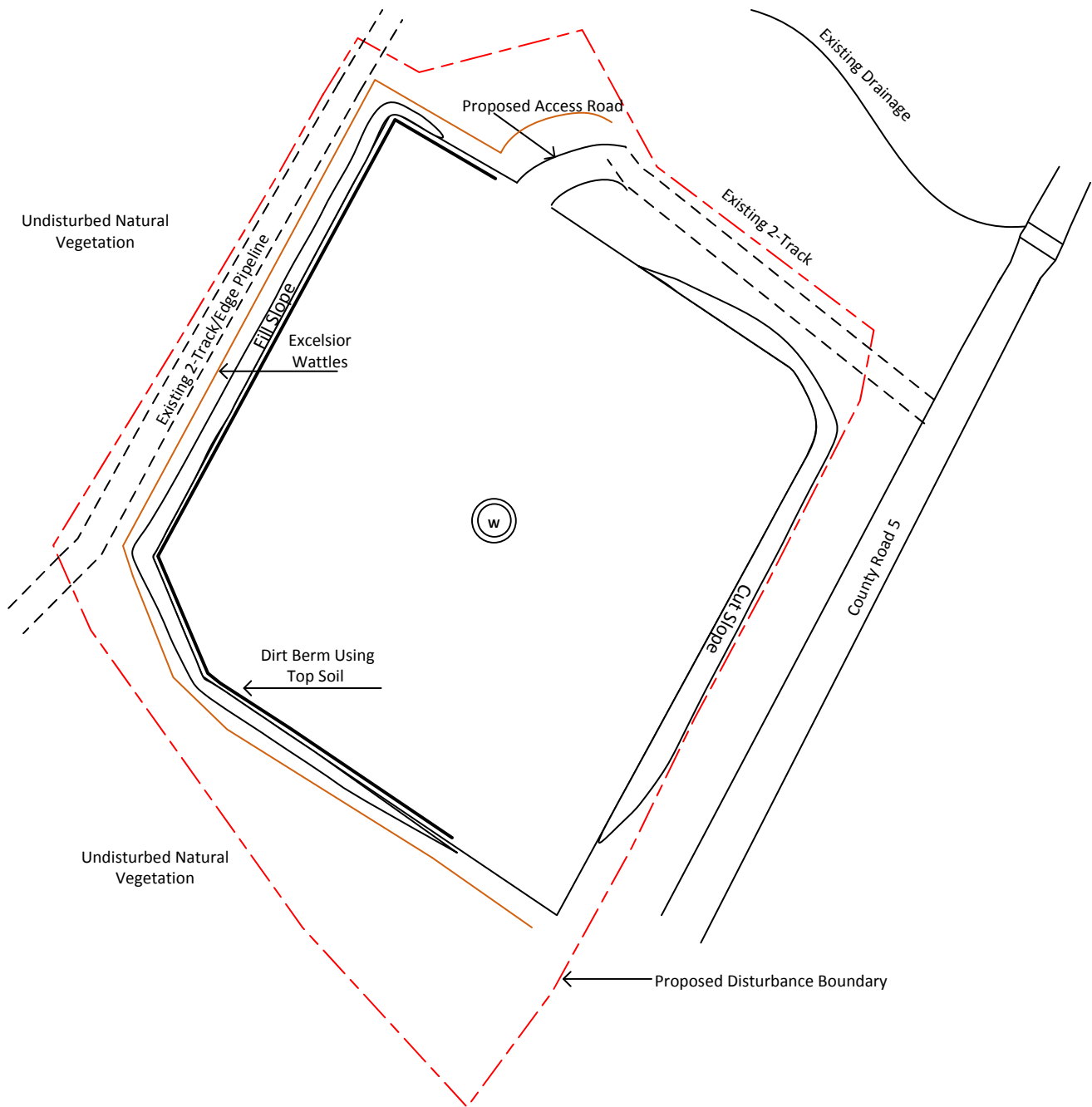
# ELEVATIONS OF WELL PAD

## SITE PLAN



# B.M.P. IMPLEMENTATION DURING CLEARING AND WELL PAD DEVELOPMENT

UNDISTURBED NATURAL VEGETATION SHALL BE PRESERVED OUTSIDE OF THE BOUNDARY OF DISTURBANCE, REDUCING SEDIMENT AND EROSION. DURING THE CLEARING OPERATION ALL VEGETATION LESS THAN 6 INCHES (SAGE) IN DIAMETER WILL BE BLADED OFF THE LOCATION FIRST THEN PLACED AT THE BOTTOM OF THE TOP SOIL STOCK PILE. THE 6" MINUS MATERIAL WILL BE SPREAD OVER TOP SOIL AT THE TIME OF INTERIM RECLAMATION. EXCELSIOR WATTLES WILL BE PLACED DOWN GRADIENT OF THE DISTURBED AREAS TO INTERCEPT AND RETAIN SEDIMENT UNTIL SUFFICIENT VEGETATION GROWTH HAS OCCURRED ON THE FILL SLOPES AND MIDPOINT OF THE CUT SLOPES. DURING THE WELL PAD AND ACCESS ROAD DEVELOPMENT SOIL SHALL BE SEPARATED FROM SOLID ROCK. SOME OF THE ROCK WILL BE STORED FOR STABILIZATION PURPOSES AS NEEDED. ONCE THE WELL PAD FILL SLOPES HAVE BEEN CONSTRUCTED A DIRT BERM, USING TOP SOIL MATERIAL, WILL BE UTILIZED UP GRADIENT OF THE FILL SLOPES TO PREVENT EROSION OF THE SLOPE AND DIRECT RUNOFF TO A DESIRED LOCATION.



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North Piceance 197-15A1

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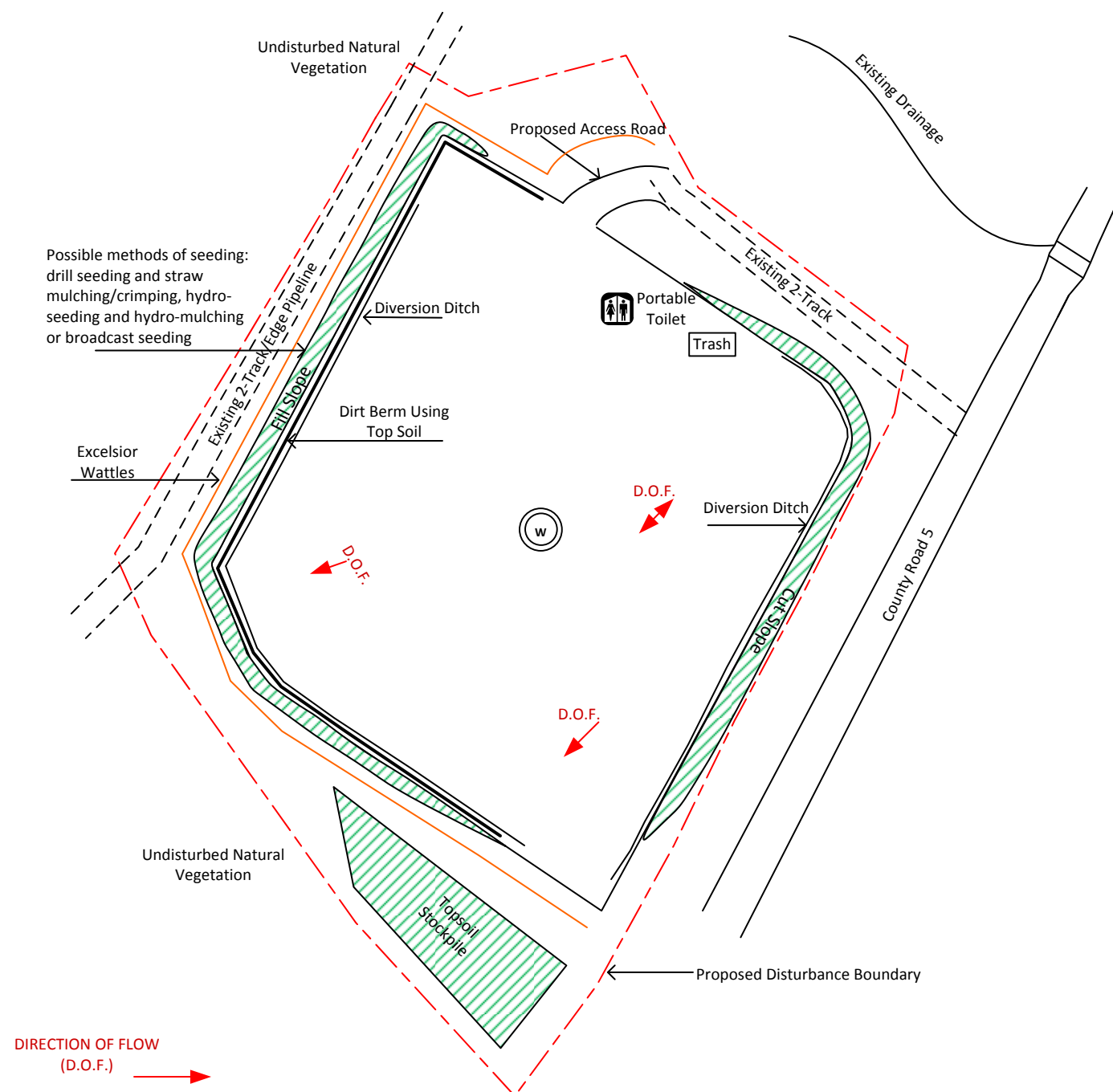
Longitude: -108.266680

NWSE, Section 15, Township 1S, Range 97W, 6<sup>th</sup> P.M



# B.M.P. IMPLEMENTATION DURING UTILITY INSTALLATION. BEGIN FINAL GRADE/STABILIZATION

PORTABLE TOILETS SHALL BE PLACED AWAY FROM DRAINAGE AREAS, TRAFFIC FLOW AND FILL SLOPES AND SECURED. BEAR PROOF TRASH CONTAINERS SHALL BE PROVIDED DURING THE DRILLING AND COMPLETION OPERATION ONLY. THEY WILL BE PLACED AWAY FROM DRAINAGE AREAS, TRAFFIC FLOW AND FILL SLOPES. GRAVEL WILL BE USED ON ACCESS ROAD FOR STABILIZATION. ONCE THE WELL PAD CUT AND FILL SLOPES HAVE ACHIEVED FINAL GRADE, A DIVERSION DITCH WILL BE ESTABLISHED AT THE TOE OF THE CUT SLOPE AND TOP OF FILL SLOPE TO DIRECT RUN OFF TO A DESIRED LOCATION. POSSIBLE METHODS OF SEEDING WILL BE DRILL SEEDING AND STRAW MULCHING/CRIMPING, HYDRO-SEEDING AND HYDRO-MULCHING OR BROADCAST SEEDING. THE TOP SOIL PILE WILL BE STABILIZED BY SOIL SURFACE ROUGHENING AND POSSIBLE METHODS OF SEEDING TO FACILITATE VEGETATION ESTABLISHMENT AND MINIMIZE SOIL EROSION.



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# B.M.P. IMPLEMENTATION DURING FINAL STABILIZATION

THE WELL PAD WILL UTILIZE ROAD BASE INSIDE THE DEAD MAN ANCHORS. AFTER THE SURFACE EQUIPMENT HAS BEEN INSTALLED, PRIOR TO PRODUCTION, GRAVEL WILL BE USED AROUND THE SURFACE EQUIPMENT FOR PERMANENT STABILIZATION. FOLLOWING THE PLACEMENT OF GRAVEL, ROCK ARMOR OUTFALLS MAY BE PLACED ON THE CONFLUENCE OF THE PAD AT THE DIVERSION DITCH OUTLETS.

