



EL PASO PIPELINE
TYPICAL DETAIL

**CATHODIC PROTECTION
PIPELINE TEST STATION BILL OF MATERIAL
(METAL)**

TYPE 1-2 LEADS

ITEM	QTY	UNIT	DESCRIPTION
1	1	EA	4" X 4" X 5' REDWOOD OR PRESERVATIVE TREATED POST
2	1	EA	1" FINK/PLATE W/CONDUIT AND TWO STANDARD TERMINALS, #77500P C-H "E" TYPE WITH 40' GALVANIZED RIGID METAL CONDUIT THREADED WITH CONDUIT BUSHING ON BOTTOM, INCLUDING FOUR 20' LENGTHS OF #10 SOLID COPPER WIRE TYPE THIN WITH BLACK INSULATION ATTACHED TO EACH TERMINAL, TOP OF CONDUIT MOUNTED FLUSH WITH TOP OF POST. TERMINALS TO BE ORIENTED PARALLEL WITH THE FACE OF THE POST.
3	2	EA	#15 EXOTHERMIC FUSION WELD (MOLD, WELD METAL AND DISK REQUIRED)
4	2	EA	SLEEVE, CADWELD #CAB-133-1H FOR #10 WIRE
5	2	EA	CAP, ROYSTON HANDY-CAP 2 (ROYSTON ROYBOND 747 PRIMER REQUIRED)
6	2	EA	1" RIGID 2 HOLE CONDUIT STRAPS AND 2-1 1/2" DECK SCREWS, ONE STRAP MOUNTED JUST BELOW HEAD, ONE MOUNTED 2' BELOW HEAD.

TYPE 2-4 LEADS

ITEM	QTY	UNIT	DESCRIPTION
1	1	EA	4" X 4" X 5' REDWOOD OR PRESERVATIVE TREATED POST
2	1	EA	1" FINK/PLATE W/CONDUIT AND FOUR STANDARD TERMINALS, #77500P C-H "E" TYPE WITH 40' GALVANIZED RIGID METAL CONDUIT THREADED WITH CONDUIT BUSHING ON BOTTOM, INCLUDING FOUR 20' LENGTHS OF #10 SOLID COPPER WIRE TYPE THIN, TWO WITH BLACK INSULATION ATTACHED TO THE TOP TWO TERMINALS AND TWO WITH WHITE INSULATION ATTACHED TO THE BOTTOM TWO TERMINALS, TOP OF CONDUIT MOUNTED FLUSH WITH TOP OF POST. TERMINALS TO BE ORIENTED PARALLEL WITH THE FACE OF THE POST.
3	4	EA	#15 EXOTHERMIC FUSION WELD (MOLD, WELD METAL AND DISK REQUIRED)
4	4	EA	SLEEVE, CADWELD #CAB-133-1H FOR #10 WIRE
5	4	EA	CAP, ROYSTON HANDY-CAP 2 (ROYSTON ROYBOND 747 PRIMER REQUIRED)
6	2	EA	1" RIGID 2 HOLE CONDUIT STRAPS AND 2-1 1/2" DECK SCREWS, ONE STRAP MOUNTED JUST BELOW HEAD, ONE MOUNTED 2' BELOW HEAD.

TYPE 3-4 LEADS

ITEM	QTY	UNIT	DESCRIPTION
1	1	EA	4" X 4" X 5' REDWOOD OR PRESERVATIVE TREATED POST
2	1	EA	1" FINK/PLATE W/CONDUIT AND TWO STANDARD TERMINALS, #77500P C-H "E" TYPE WITH 40' GALVANIZED RIGID METAL CONDUIT THREADED WITH CONDUIT BUSHING ON BOTTOM, INCLUDING FOUR 20' LENGTHS OF #10 SOLID COPPER WIRE TYPE THIN, TWO WITH BLACK INSULATION ATTACHED TO TERMINAL NUMBERS 2 & 3, ONE WITH RED INSULATION ATTACHED TO TERMINAL 1, AND ONE WITH GREEN INSULATION ATTACHED TO TERMINAL 4, TOP OF CONDUIT MOUNTED FLUSH WITH TOP OF POST. (WIRE SUPPLIED BY FIELD TO MEET DIMENSION "a" AND SPICED TO GREEN AND/OR RED TEST STATION WIRE)
3	4	EA	#15 EXOTHERMIC FUSION WELD (MOLD, WELD METAL AND DISK REQUIRED)
4	4	EA	SLEEVE, CADWELD #CAB-133-1H FOR #10 WIRE
5	4	EA	CAP, ROYSTON HANDY-CAP 2 (ROYSTON ROYBOND 747 PRIMER REQUIRED)
6	2	EA	1" RIGID 2 HOLE CONDUIT STRAPS AND 2-1 1/2" DECK SCREWS, ONE STRAP MOUNTED JUST BELOW HEAD, ONE MOUNTED 2' BELOW HEAD.

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EL PASO PIPELINE
TYPICAL DETAIL

**CATHODIC PROTECTION
PIPELINE TEST STATION BILL OF MATERIAL
(NON-METAL)**

TYPE 1-2 LEADS

ITEM	QTY	UNIT	DESCRIPTION
1	1	EA	4" X 4" X 5' REDWOOD OR PRESERVATIVE TREATED POST
2	1	EA	1" FINKLET, RED, AND TWO STANDARD TERMINALS, WITH 40' PVC CONDUIT, WHITE, INCLUDING TWO 20' LENGTHS OF #10 SOLID COPPER WIRE TYPE THIN/THIN WITH BLACK INSULATION ATTACHED TO EACH TERMINAL, TOP OF CONDUIT MOUNTED FLUSH WITH TOP OF POST. TERMINALS TO BE ORIENTED PARALLEL WITH THE FACE OF THE POST.
3	2	EA	#15 EXOTHERMIC FUSION WELD (MOLD, WELD METAL AND DISK REQUIRED)
4	2	EA	SLEEVE, CADWELD #CAB-133-1H FOR #10 WIRE
5	2	EA	CAP, ROYSTON HANDY-CAP 2 (ROYSTON ROYBOND 747 PRIMER REQUIRED)
6	2	EA	1" RIGID 2 HOLE CONDUIT STRAPS AND 2-1 1/2" DECK SCREWS, ONE STRAP MOUNTED JUST BELOW HEAD, ONE MOUNTED 2' BELOW HEAD.

TYPE 2-4 LEADS

ITEM	QTY	UNIT	DESCRIPTION
1	1	EA	4" X 4" X 5' REDWOOD OR PRESERVATIVE TREATED POST
2	1	EA	1" FINKLET, RED, AND FOUR STANDARD TERMINALS, WITH 40' PVC CONDUIT, WHITE, INCLUDING FOUR 20' LENGTHS OF #10 SOLID COPPER WIRE TYPE THIN/THIN, TWO WITH BLACK INSULATION ATTACHED TO THE TOP TWO TERMINALS AND TWO WITH WHITE INSULATION ATTACHED TO THE BOTTOM TWO TERMINALS, TOP OF CONDUIT MOUNTED FLUSH WITH TOP OF POST. TERMINALS TO BE ORIENTED PARALLEL WITH THE FACE OF THE POST.
3	4	EA	#15 EXOTHERMIC FUSION WELD (MOLD, WELD METAL AND DISK REQUIRED)
4	4	EA	SLEEVE, CADWELD #CAB-133-1H FOR #10 WIRE
5	4	EA	CAP, ROYSTON HANDY-CAP 2 (ROYSTON ROYBOND 747 PRIMER REQUIRED)
6	2	EA	1" RIGID 2 HOLE CONDUIT STRAPS AND 2-1 1/2" DECK SCREWS, ONE STRAP MOUNTED JUST BELOW HEAD, ONE MOUNTED 2' BELOW HEAD.

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ITEM	QTY	UNIT	DESCRIPTION
1	1	EA	4" X 4" X 5' REDWOOD OR PRESERVATIVE TREATED POST
2	1	EA	1" FINKLET, RED, AND FOUR STANDARD TERMINALS, WITH 40' PVC CONDUIT, WHITE, INCLUDING FOUR 20' LENGTHS OF #10 SOLID COPPER WIRE TYPE THIN/THIN, TWO WITH BLACK INSULATION ATTACHED TO TERMINAL NUMBERS 2 AND 3, ONE WITH RED INSULATION ATTACHED TO TERMINAL 1, AND ONE WITH GREEN INSULATION ATTACHED TO TERMINAL 4, TOP OF CONDUIT MOUNTED FLUSH WITH TOP OF POST. (WIRE SUPPLIED BY FIELD TO MEET DIMENSION "a" AND SPICED TO GREEN AND/OR RED TEST STATION WIRE)
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REFERENCE DRAWINGS

GENERAL NOTES

NO.	DATE	BY	DESCRIPTION	PROJ. ID	APPR.
1	1/12/09	CEK	ADDED TYPE 4 TEST STATION	128574	MVL

REVISIONS

RUBY PIPELINE LLC

PIPELINE
TYPICAL DETAILS
CATHODIC PROTECTION

Division:	Op. Area:		
State:	Co./Par.:		
Section:	Township:	Range:	
Drafter: ROK	Date: 10-11-2000	Project ID:	Type:
Chk'd:	Date:	Scale: AS SHOWN	
Appr:	Date:	Filename:	
		TYP-P-P-123.dwg	
TYP-P-P-123			Sheet: Rev 1 of 1

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