

BENCHMARKS:
 "□" Cut in middle of N headwall of RCBC on 21st St. North. 1004.3' W & 22.1' N of SE Cor., SE 1/4, Sec. 2, T-27-S, R-2-E.
 Elev. = 173.23 City Datum

RR spike in N. face of power pole 840.0' west of C.L. of Castle Rock and 48.7' south of C.L. of 21st St. N.
 Elev. = 182.03 City Datum

Valve Box
 Elev. = 173.50

Sta 0+60.00, Begin construction of 5" A.C. Pmnt. W/5" Reinf. Rock Base and 4' Sidewalk.

Saw, cut, remove and replace 2' existing pavement as shown. To be incidental to "Site Clearing & Restoration".

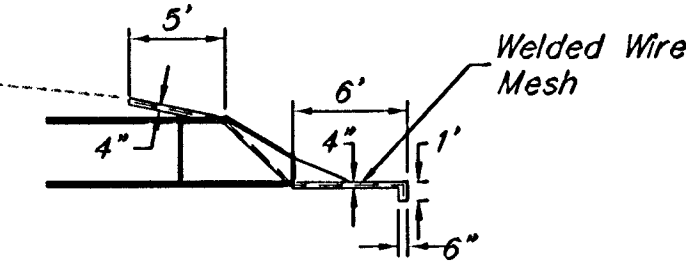
Install 100.0 L.F. 24" RCP W/ end sections. Install Concrete End Section Apron (Both Ends). (See Detail, This Sheet)

Construct 5" A.C. Mat Pavement W/ 5" Reinf. Rock Base.

Regrade ditch to ensure positive drainage in 70', both sides

Sta 0+62.00, 40' Rt. Install Metro D3 (SNS) Ass'y as per City specs. "21st St N (1400 E)" & "Castle Rock (2200 N)".

Install 4" Wire Mesh Reinforced Concrete
 Warp Concrete to Match Concrete End Section



Concrete End Section Apron
 Not to Scale
 (Cost to be incidental to Bid Item "24" RCP")

Curve #1A
 Curve Data Based on Centerline
 Rad. = 200' Delta = 10' 18' 17" Tangent = 18.03'
 Arc = 35.97' L.C. = 35.92' Def/Ft. = 8.59443 Min.

Station	Arc	8' Lt.	Def.	T. Def.
A	-	-	0'00'00"	0'00'00"
B	35.97'	37.36'	5'09'08"	5'09'08"

Curve #1B
 Curve Data Based on Centerline
 Rad. = 200' Delta = 10' 18' 17" Tangent = 18.03'
 Arc = 35.97' L.C. = 35.92' Def/Ft. = 8.59443 Min.

Station	Arc	8' Rt.	Def.	T. Def.
C	-	-	0'00'00"	0'00'00"
D	35.97'	37.36'	5'09'08"	5'09'08"

Curve #2A
 Curve Data Based on Centerline
 Rad. = 100' Delta = 12'02' 40" Tangent = 10.55'
 Arc = 21.02' L.C. = 20.98' Def/Ft. = 17.18998 Min.

Station	Arc	8' Lt.	Def.	T. Def.
E	-	-	0'00'00"	0'00'00"
F	21.02'	19.30'	6'01'20"	6'01'20"

Curve #2B
 Curve Data Based on Centerline
 Rad. = 250' Delta = 8'06' 15" Tangent = 17.71'
 Arc = 35.36' L.C. = 35.33' Def/Ft. = 6.87571 Min.

Station	Arc	8' Rt.	Def.	T. Def.
G	-	-	0'00'00"	0'00'00"
H	35.36'	34.20'	4'03'07"	4'03'07"

Curve #3
 Curve Data Based on Centerline
 Rad. = 350' Delta = 47' 33' 52" Tangent = 154.24'
 Arc = 290.56' L.C. = 282.28' Def/Ft. = 4.91098 Min.

Station	Arc	FACE CHORD LENGTHS	8' Lt.	8' Rt.	Def.	T. Def.
1+75.00	-	-	-	-	0'00'00"	0'00'00"
2+00.00	25.00'	23.21'	26.78'	2'02'46"	2'02'46"	
2+05.83	5.83'	5.41'	6.25'	0'28'38"	2'31'24"	
2+47.30	41.47'	38.48'	44.41'	3'23'39"	5'55'04"	
2+88.77	41.47'	38.48'	44.41'	3'23'39"	9'18'43"	
3+00.00	11.23'	10.43'	12.03'	0'55'09"	10'13'52"	
3+25.00	25.00'	23.21'	26.78'	2'02'46"	12'16'59"	
3+50.00	25.00'	23.21'	26.78'	2'02'46"	14'19'25"	
3+75.00	25.00'	23.21'	26.78'	2'02'46"	16'22'12"	
4+00.00	25.00'	23.21'	26.78'	2'02'46"	18'24'58"	
4+25.00	25.00'	23.21'	26.78'	2'02'46"	20'27'44"	
4+50.00	25.00'	23.21'	26.78'	2'02'46"	22'30'31"	
4+65.56	15.56'	14.45'	16.67'	1'16'25"	23'46'56"	

P.V.I.
 Elev. = 173.90
 40.38' V.C.

P.V.I.
 Elev. = 175.40
 47.58' V.C.

P.V.I.
 Elev. = 173.90
 73.38' V.C.

NOTE: ROLL TYPE CURB & GUTTER TO BE CONSTRUCTED ON THE PAVEMENT SHOWN ON THIS SHEET. TOP OF CURB ELEVATIONS ARE GIVEN FOR FULL HEIGHT CURB.

BAUGHMAN
 ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER
47283973

REVISIONS:

DESIGN
NBW

DRAWN
TMS

APPROVED
DATE
05/04

SCALE
Noted

SHEET
7 OF 30

KrugNorth/St1

0407-E848