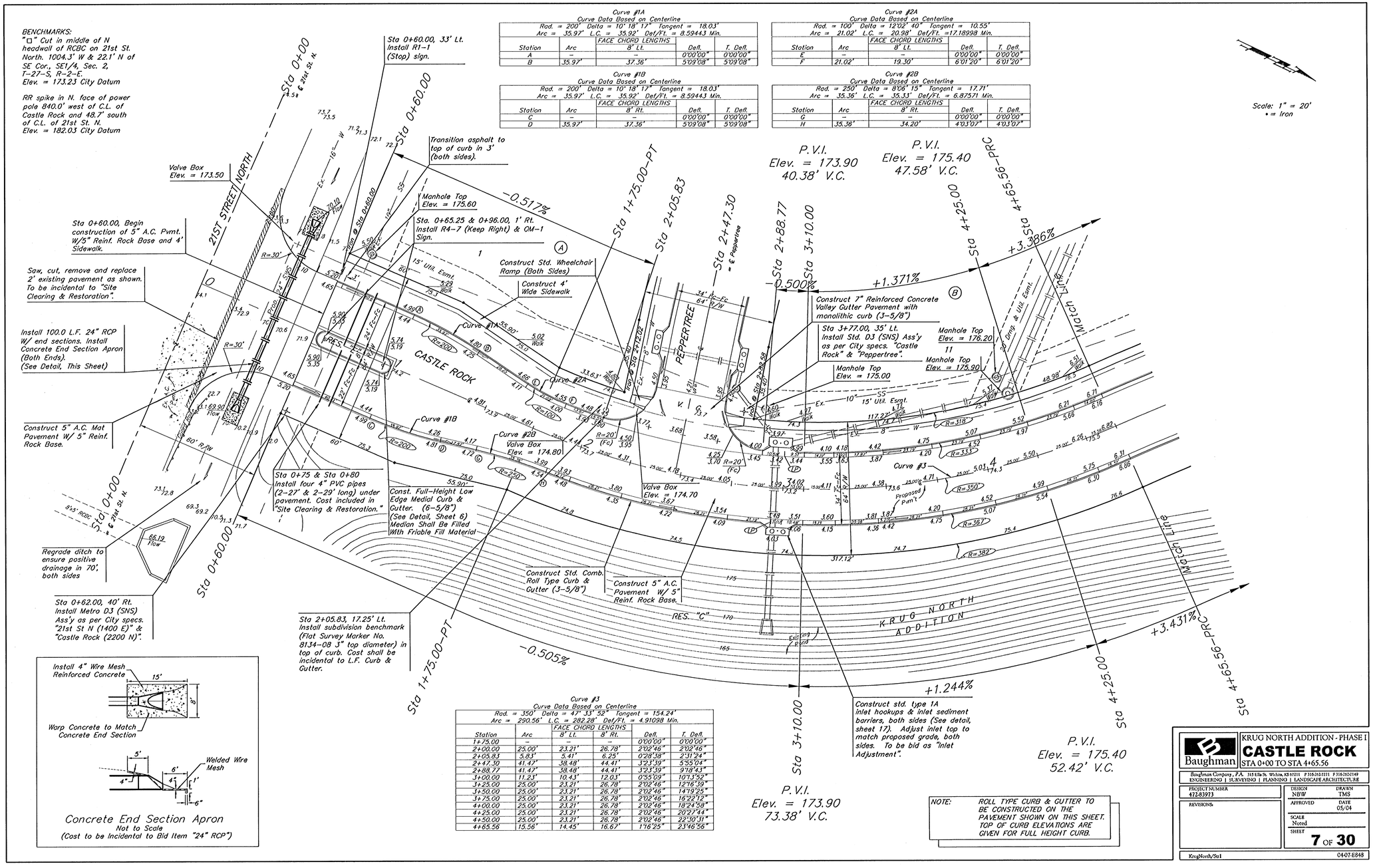
BENCHMARKS:
"□" Cut in middle of N headwall of RCBC on 21st St. North. 1004.3' W & 22.1' N of SE Cor., SE1/4, Sec. 2, T-27-S, R-2-E. Elev. = 173.23 City Datum
RR spike in N. face of power pole 840.0' west of C.L. of Castle Rock and 48.7' south of C.L. of 21st St. N. Elev. = 182.03 City Datum
Curve #1A
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.
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.
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.
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.
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.
Sta 0+00
Sta 0+60.00
Sta 1+75.00-PT
Sta 2+05.83
Sta 2+47.30
Sta 2+88.77
Sta 3+10.00
Sta 4+25.00
Sta 4+65.56-PRC
21ST STREET NORTH
CASTLE ROCK
PEPPERTREE
MARCH LANE
KRUG NORTH ADDITION
-0.517%
-0.505%
-0.500%
+1.371%
+3.386%
+1.244%
+3.431%
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.
P.V.I. Elev. = 175.40 52.42' V.C.
Valve Box Elev. = 173.50
Manhole Top Elev. = 175.60
Manhole Top Elev. = 176.20
Manhole Top Elev. = 175.90
Manhole Top Elev. = 175.00
Valve Box Elev. = 174.80
Valve Box Elev. = 174.70
Sta 0+60.00, Begin construction of 5" A.C. Pvmt. 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)".
Transition asphalt to top of curb in 3" (both sides).
Sta. 0+65.25 & 0+96.00, 1' Rt. Install R4-7 (Keep Right) & OM-1 Sign.
Construct Std. Wheelchair Ramp (Both Sides)
Construct 4' Wide Sidewalk
Sta 0+75 & Sta 0+80 Install four 4" PVC pipes (2-27' & 2-29' long) under pavement. Cost included in "Site Clearing & Restoration."
Const. Full-Height Low Edge Medial Curb & Gutter. (6-5/8") (See Detail, Sheet 6) Median Shall Be Filled With Friable Fill Material
Construct Std. Comb. Roll Type Curb & Gutter (3-5/8")
Construct 5" A.C. Pavement W/ 5" Reinf. Rock Base.
Sta 2+05.83, 17.25' Lt. Install subdivision benchmark (Flat Survey Marker No. 8134-08 3" top diameter) in top of curb. Cost shall be incidental to L.F. Curb & Gutter.
Construct 7" Reinforced Concrete Valley Gutter Pavement with monolithic curb (3-5/8")
Sta J+77.00, 35' Lt. Install Std. D3 (SNS) Ass'y as per City specs. "Castle Rock" & "Peppertree".
Construct std. type 1A inlet hookups & inlet sediment barriers, both sides (See detail, sheet 17). Adjust inlet top to match proposed grade, both sides. To be bid as "Inlet Adjustment".
Install 4" Wire Mesh Reinforced Concrete
Warp Concrete to Match Concrete End Section
Welded Wire Mesh
Concrete End Section Apron
Not to Scale
(Cost to be Incidental to Bid Item "24" RCP")
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.
Scale: 1" = 20'
• = Iron
Baughman
KRUG NORTH ADDITION - PHASE I
CASTLE ROCK
STA 0+00 TO STA 4+65.56
Baughman Company, P.A. 315 Ella St. Wichita, KS 67211 P 3162632211 F 3162632149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE
PROJECT NUMBER 472-83973
DESIGN NBW
DRAWN TMS
APPROVED
DATE 05/04
REVISIONS
SCALE Noted
SHEET 7 OF 30
KrugNorth/Sht1
0407-E848