K-03 (1) The covered sidewalk provided slopes of 2.7% near the intersection of the sidewalk along the front of Chaparral Village which results in excess cross slopes when making the 90 degree turn however walking surfaces must provide cross slopes of 1:48 (2.08%) maximum to conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

K-03 (2) The following conditions were observed at the outdoor dining area at Chaparral Village:

a. A total of 30 seating spaces were provided at fixed dining tables of which only one was provided without a fixed seat to allow a wheelchair seating space however where seating/standing spaces are provided at fixed dining surfaces, at least 5% must be provided in conformance with Section 902 which would result in at least two accessible seating spaces be provided at these fixed tables to conform to Section 226.1 – “Where dining surfaces are provided for the consumption of food or drink, at least 5 percent of the seating spaces and standing spaces at the dining surfaces shall comply with 902. ...”

b. The one accessible seating space provided at one of the fixed tables provided a support foot on the ground which does not allow for the 30” wide by 48” deep clear floor space to exist underneath the dining surface however toe clearance must extend 17” minimum under dining surfaces to conform, per Section 902.2, to Section 306.2.3 – “Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.”

K-03 (3) The handrails at the stairs connecting the covered walkway to the dining area along the east side extended horizontally beyond the bottom riser however stair handrails must extend at the slope of stairs for a distance equal to one tread depth beyond the bottom riser to conform to Section 505.10.3 – “At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.”

K-03 (4) The sidewalk along the accessible parking at the Road Runner Café provided cross slopes up to 2.4% in front of the first accessible parking space and access aisle however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: Although this portion of sidewalk provides cross slopes slightly in excess of the maximum allowed, this condition could be considered to be within an acceptable tolerance based on the experience of the consultant.
K-03 (5) The following conditions were observed at the accessible parking area serving the Road Runner Café:

a. The second accessible parking space from the west provided running slopes of 2.8% up to 3.6% however accessible parking spaces must provide slopes not steeper than 1:48 (2.08%) to conform to Section 502.4 – “Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.”

b. The third accessible parking space from the west provided running slopes of 2.9% up to 3.3% with the adjacent access aisle sloped up to 3.5% however accessible parking spaces must provide slopes not steeper than 1:48 (2.08%) to conform to Section 502.4 – “Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.”

c. Neither of the van parking spaces (served by wider access aisle) provided signage containing the designation “Van Accessible” however at least one in six accessible parking spaces must be a van parking space meeting the requirements of Section 502 and is identified as van accessible to conform to Section 502.6 – “Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the designation “van accessible. ...”

d. The signs identifying all the accessible parking spaces were mounted at 50” to 52” above the ground surface measured to the bottom of the International Symbol of Accessibility however such signage must be mounted at 60” minimum above the finished ground surface to conform to Section 502.6 – “... Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign.”

K-03 (6) The door maneuvering clearance at the automatic entry doors at Road Runner Café provided running slopes up to 3.5% however such maneuvering clearances must provide slopes not steeper than 1:48 (2.08%) to conform to Section 404.2.4 which stipulates maximum slope conditions per Section 404.2.4.4, per Section 404.3.2 – “Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with 404.2.4.”

Safe Harbor: If this entry was constructed prior to March 15, 2012, the above condition could be safe harbored as it met the guidelines of the 1990 ADAAG.
K-03 (7) The sidewalk around the circular planter area to the north of the outdoor dining area provided cross slopes of 2.8% up to 4.2% however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

K-03 (8) The small portion of sidewalk connecting to the northern side of the outdoor dining area provided cross slopes of 2.8% up to 4.7% however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

K-03 (9) Cross slopes of 2.3% were provided at the intersection of these sidewalks running east-to-west and north-to-south however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: Although this portion of sidewalk provided cross slopes slightly in excess of the maximum allowed, this condition could be considered to be within an acceptable tolerance based on the experience of the consultant.

K-03 (10) The sidewalk near the southeast corner of the Activity Center provided cross slopes of 2.5% up to 3.9% however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

K-03 (11) The following conditions were observed at the 22'-10” long portion of sidewalk accessing the accessible entry at the Activity Center:

a. The 22'-10” long portion of sidewalk running at an average slope of 6% accommodates an overall change in elevation of more than 12” however handrails are not provided along this ramp which does not conform to Section 405.8 – “Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.”

b. The bottom landing slopes towards the bottom of the ramp which allows for water accumulation at on this landing however since this landing is subject to the elements (wet weather), it must be designed and constructed to prevent the accumulation of water to conform to Section 405.10 – “Landings subject to wet conditions shall be designed to prevent the accumulation of water.”
K-03 (12)  The two accessible parking spaces serving the Activity Center provided widths of 8'-3" and 8'-0" and shared a 7'-9" wide access aisle however access aisles serving van parking spaces that are 96" wide minimum must provide a width of 96" (8') minimum to conform to Section 502.2 EXCEPTION – “Van parking spaces shall be permitted to be 96 inches (2440 mm) wide minimum where the access aisle is 96 inches (2440 mm) wide minimum.”

K-03 (13)  The sidewalk along the northern side of Road Runner Café provided running slopes of 5.2% up to 5.8% with cross slopes of 2.2% up to 2.8% at the 90 degree turn however walking surfaces must provide running slopes not steeper than 1:20 (5%) and cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: Although this portion of sidewalk provided slopes slightly in excess of the maximum allowed, this condition could be considered to be within an acceptable tolerance based on the experience of the consultant.

K-03 (14)  The sidewalk at the northwest corner of the service yard north of the Road Runner Café provided cross slopes of 3.0% before and after the turn and 3.8% at the 90 degree turn however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

K-03 (15)  The sidewalk near the parking in this area provided cross slopes of 3.8% down toward the parking area at the intersection of the sidewalk to travel along Tobin Ave which results in excess cross slopes at the 90 degree turn however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”
K-04 (1)  The sidewalk along the southern side of the parking lot near the fire lane provided cross slopes of 2.2% up to 2.9% however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – "...The cross slope of walking surfaces shall not be steeper than 1:48."

K-04 (2)  The sidewalk at the 90 degree turn just south of the accessible parking area serving Chaparral Village provided cross slopes of 3.8% however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – "...The cross slope of walking surfaces shall not be steeper than 1:48."

K-04 (3)  The sidewalk along the front of the southern accessible parking area serving Chaparral Village provided cross slopes 2.1% up to 4.0% however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – "...The cross slope of walking surfaces shall not be steeper than 1:48."

K-04 (4)  The following conditions were observed at the southern accessible parking area serving Chaparral Village:

a. The parking space marked as “Van Accessible” measured 8’ wide and was served by a 5’ wide access aisle however van parking spaces must provide widths of 132” (11’) minimum when served by a 5’ wide minimum access aisle to conform to Section 502.2 – “Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.”

   Note: Van parking spaces may be 96” (8’) wide when served by a 96” (8’) wide access aisle to conform to Section 502.2 Exception – “Van parking spaces shall be permitted to be 96 inches (2440 mm) wide minimum where the access aisle is 96 inches (2440 mm) wide minimum.”

b. The car parking space closest to the pedestrian gate in the southern accessible parking area measured a width of 7’-9 1/2” however car parking spaces must provide a width of 96” (8’) wide minimum to conform to Section 502.2 – “Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.”

c. The third car parking space from the south and the access aisle that serves it in the southern accessible parking area provided running slopes of 2.3% up 3.2% however accessible parking spaces must provide slopes not steeper than 1:48 (2.08%) to conform to Section 502.4 – “Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.”

d. The sign identifying the southern most accessible parking space in the southern accessible parking area was mounted at 56-1/2” above the parking surface measured to the bottom of the International Symbol of Accessibility however such signage must be mounted at 60” minimum above the ground surface to conform to Section 502.6 – “Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the designation “van accessible.” Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign.”
K-04 (5) The northern curb ramp at the southern most accessible parking area serving Chaparral Village provided running slopes of 8.9% at the bottom (7.7% at the top) however curb ramps must provide running slopes of 1:12 (8.33%) maximum to conform to Section 405.2 per Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

Note: Although curb ramps must provide slopes not steeper than 8.33%, the slope slightly in excess of the maximum allowed for a short portion of the ramp could be considered to be within an acceptable tolerance based on the experience of the consultant.

K-04 (6) The first 2’ of sidewalk at the top of the northern curb ramp in the southern group of accessible parking area serving Chaparral Village provided running slopes of 8.0% sloping down towards the top of the curb ramp which results in a cross slope in excess of the maximum 1:48 (2.08%) allowed when traveling along the sidewalk at the front of the parking area however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “…The cross slope of walking surfaces shall not be steeper than 1:48.”

K-04 (7) A 1” wide gap that was 7/8” deep at the sidewalk joint between the sidewalk along the front of the southern accessible parking area serving Chaparral Village and the sidewalk accessing the pedestrian gate however openings shall not allow passage of a sphere more than ½” to conform to Section 302.3 – “Openings in floor or ground surfaces shall not allow passage of a sphere more than ½ inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.”

K-04 (8) The sidewalk at the blue Emergency button “1768”, intercom, and gate automatic opener controls provided cross slopes of 3.9% however clear floor space serving such operable parts must provide slopes not steeper than 1:48 (2.08%) to conform, per section 309.2, to Section 305.2 – “Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.”
K-04 (9) The maneuvering clearance to access the automatic pedestrian gate into Chaparral Village provided running slopes of 2.3% however such maneuvering clearance must provide slopes not steeper than 1:48 (2.08%) to conform to Section 404.2.4 which stipulates maximum slope conditions per Section 404.2.4.4, per Section 404.3.2 – “Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with 404.2.4.”

Note: Although this maneuvering clearance provided slopes slightly in excess of the maximum allowed by Section 404.2.4.4, this condition could be considered to be within an acceptable tolerance based on the experience of the consultant.

Safe Harbor: If this entry was constructed prior to March 15, 2012, the above condition could be safe harbored as it met the guidelines of the 1990 ADAAG.

K-04 (10) The southern curb ramp at the northern accessible parking area serving Chaparral Village provided running slopes of 10.5% up to 11.2% however curb ramps must provide running slopes of 1:12 (8.33%) maximum to conform to Section 405.2 per Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

K-04 (11) The southern car parking space of the northern accessible parking area serving Chaparral Village provided at width of 6’-11” however car parking spaces must provide a width of 96” (8’) minimum to conform to Section 502.2 – “Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.”
K-04 (12) The first 2’ of sidewalk at the top of the northern curb ramp in the northern group of accessible parking area serving Chaparral Village provided running slopes of 8.0% sloping down towards the top of the curb ramp which results in a cross slope in excess of the maximum 1:48 (2.08%) allowed when traveling along the sidewalk at the front of the parking area however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “...The cross slope of walking surfaces shall not be steeper than 1:48.”

K-04 (13) The ramped portion provided cross slopes of 2.2% up 3.1% near the intersection of the sidewalk along the front of the accessible parking area and the sidewalk accessing the accessible building entry however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “...The cross slope of walking surfaces shall not be steeper than 1:48.”

K-04 (14) A 1” wide gap that was 1-3/4” deep at the sidewalk joint between at the intersection of the ramp along the front of the northern accessible parking area serving Chaparral Village and the sidewalk accessing the accessible building entry however openings shall not allow passage of a sphere more than ½” to conform to Section 302.3 – “Openings in floor or ground surfaces shall not allow passage of a sphere more than ½ inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.”

K-04 (15) The sidewalk at the blue Emergency button “1767 provided cross slopes of 2.5% however clear floor space serving such operable parts must provide slopes not steeper than 1:48 (2.08%) to conform, per section 309.2, to Section 305.2 – “Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.”

Note: Although the clear floor space serving this operable part provided slopes slightly in excess of the maximum allowed, this condition could be considered to be within an acceptable tolerance based on the experience of the consultant.
K-04 (16) A 1” wide gap that was 2-3/8” deep was provided across the sidewalk about 13’-5” from the accessible building entry at Chaparral Village however openings shall not allow passage of a sphere more than ½” to conform to Section 302.3 – “Openings in floor or ground surfaces shall not allow passage of a sphere more than ½ inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.”
L-03 (1) The following conditions were observed at the two northern most accessible parking spaces in this group:

a. The two accessible parking spaces and shared access aisle provided slopes up to 2.9% however accessible parking areas must provide slopes not steeper than 1:48 (2.08%) to conform to Section 502.4 – “Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.”

b. The signage identifying the accessible parking spaces were located 50” to 52” above the parking surface to the bottom of the sign however signs must be located 60” minimum above the ground surface to conform to Section 502.6 – “Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the designation “van accessible.” Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign.”

L-03 (2) The sidewalk on the northern side of the Road Runner Cafe provided cross slopes of 3.1% in this limited area however walking surfaces must provide slope not steeper than 1:48 (2.08%) to conform to Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

L-03 (3) The sidewalk along the southern side of Tobin Ave between the two driveways provided cross slopes of 2.4% up to 4.4% in this area however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”
L-03 (4)  The marked crossing at the eastern driveway on the northern side of Road Runner Café provided cross slopes of 4.0% however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

L-03 (5)  The curb ramp on the eastern side of the driveway on the northern side of the Road Runner Café provided running slopes of 8.4% at the bottom up to 9.3% at the top however curb ramps must provide running slopes of 1:12 (8.33%) maximum to conform to Section 405.2 per Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

L-03 (6)  The portion of sidewalk along the southern side of Tobin Ave between the driveway and the drive lane of the parking lot provided running slopes up to 6.0% in limited areas with mostly running slopes of 4.5% however walking surfaces must provide running slopes not steeper than 1:20 (5%) to conform to Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20. ...”

L-03 (7)  The curb ramp on the western side of the drive lane of the parking lot at Tobin Ave provided cross slopes of 2.8% up to 2.9% however curb ramp surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 405.3 per Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

L-03 (8)  The un-marked crossing at the drive lane of the parking lot at Tobin Ave provided cross slopes of 4.8% up to 5.8% however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”
L-03 (9) The curb ramp on the east side of the drive lane accessing the parking lot measured between 7.4% up to 8.9% however curb ramps must provide running slopes of 1:12 (8.33%) maximum to conform to Section 405.2 per Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

**Tolerance Note:** Although curb ramps must provide cross slopes not steeper than 1:12, this condition could be considered to be within an acceptable tolerance in the experience of the consultant.

L-03 (10) Cross slopes of the sidewalk along the south side of Tobin Ave. varied between 2.2% and 4.3%; however, walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

L-03 (11) The blue Emergency “7613” button was located on a 6” high curb from the parking lot surface and was not along an accessible route however such operable parts must conform to Section 309 per Section 205.1 – “Operable parts on accessible elements, accessible routes, and in accessible rooms and spaces shall comply with 309.”

L-03 (12) The sidewalk at the 90 degree turn along the egress route discharging from the southern side of the Road Runner Café provided cross slopes of 2.2% up to 3.1% however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

L-03 (13) The sidewalk connecting the small outdoor patio area on the southern side of the Road Runner Café to the sidewalk at the parking lot provided cross slopes up to 2.2% in limited areas however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

**Tolerance Note:** Although walking surfaces must provide cross slopes not steeper than 1:48 per Section 403.3, this condition could be considered to be within an acceptable tolerance in the experience of the consultant.
L-04 (1) The following conditions were observed at the top three segments of the ramp (starting at the top of the ramp system):

a. The handrails at the top of the ramp did not extend beyond the top of the ramp however ramp handrails must extend 12” minimum horizontally over the landing surface to conform to Section 505.10.1 – “Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.”

b. The top landing provided running slopes of 2.7% up to 3.8% however a level landing at least 60” long the same width as the ramp segment leading to it must be provided level with a slope not steeper than 1:48 (2.08%) to conform to Section 405.7.1 – “Landings shall comply with 302. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.”

c. The first ramp segment at the top of the ramp provided running slopes of 9.1% up to 9.7% however ramps must provide running slopes not steeper than 8.33% (1:12) to conform to Section 405.2 – “Ramp runs shall have a running slope not steeper than 1:12.”

d. The first intermediate landing from the top of ramp provided 1” wide and ¾” deep control joints on each side of landing however openings in ground surfaces shall not allow passage of a sphere more than ½” diameter for conformance with Section 302.3 – “Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.”

e. The third ramp segment from the top of the ramp provided running slopes up to 9.1% however ramps must provide running slopes not steeper than 8.33% (1:12) to conform to Section 405.2 – “Ramp runs shall have a running slope not steeper than 1:12.”
L-04 (2) The sidewalk on the eastern side of the landscape area with the utility box provided cross slopes of 3.5% up to the 90 degree to access the sidewalk along the front of the head-in parking in this area however walking surfaces must provide slope not steeper than 1:48 (2.08%) to conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

L-04 (3) The sidewalk in this area provided broken concrete surfaces at a control joint that created a crevice up to 3” wide and 1” deep however changes in level in walking surfaces of 1/4” high maximum are permitted to be vertical and 1/4” high minimum to 1/2” high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."

L-04 (4) The sidewalk along the front of the head-in parking provided cross slopes up to 2.6% in this area however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

L-04 (5) The open area on the southern side of the landscaped area with the utility box provided cross slopes up to 4.5% however this general circulation area must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

L-04 (6) The control joint provided across the width of the sidewalk in this area provided a 1” wide gap that was up to 1-1/4” deep however openings in ground surfaces shall not allow passage of a sphere more than 1/2” diameter for conformance with Section 302.3 – “Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.”

L-04 (7) When making the 90 degree turn at the sidewalk along the front of the head-in parking to travel west, the sidewalk provides running slopes up to 3.7% resulting in cross slopes in excess of 2.08% when making the turn however walking surfaces must provide cross slopes not steeper than 1:48 (2.03%) to conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

L-04 (8) The control joint provided across the width of the sidewalk in this area provided a 1” wide gap that was up to 1” deep however openings in ground surfaces shall not allow passage of a sphere more than 1/2” diameter for conformance with Section 302.3 – “Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10...”

L-04 (9) The sidewalk in this area along the front of the head-in parking provided varying cross slopes between <2% and up to 3.2% however walking surfaces shall provide cross slopes of 1:48 (2.08%) maximum for conformance with Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”
L-05 (1)  The sidewalk at the 90 degree turn at the southeastern corner of the residence building provided cross slopes of 3.0%; however, walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

L-05 (2)  The sidewalk running north to south along the eastern side of the Alvarez Hall south of the main entrance provided cross slopes up to 2.3%; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) to conform with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: Although this sidewalk provides cross slopes in excess of the 1:48 permitted, this cross slope could be considered to be within a reasonable tolerance based on the experience of the consultant.

L-05 (3)  The sidewalk running north to south along the eastern side of Alvarez Hall provided cross slopes of 3.0% up to 3.5% at the 90 degree turn to access the southern sidewalk connecting to the entry doors; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) to conform with Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

L-05 (4)  The southern sidewalk connecting to Alvarez Hall building entry provided running slopes up to 5.4% in a limited area; however, running slopes of walking surfaces shall not be steeper than 1:20 (5%) to conform to Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: Although this sidewalk provides running slopes in excess of the 1:20 slope permitted, this running slope in this limited area could be considered to be within a reasonable tolerance based on the experience of the consultant.

L-05 (5)  The northern sidewalk connecting to Alvarez Hall building entry provided cross slopes up to 4.5% before the 90 degree turn; however, walking surfaces shall provide cross slopes of 1:48 (2.08%) maximum for conformance with Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

L-05 (6)  The sidewalk running north to south along the eastern side of the building provided cross slopes up to 4.3% at the 90 degree turn to access the northern sidewalk connecting to the entry doors; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) to conform with Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

L-05 (7)  The sidewalk running north to south along the eastern side of the Alvarez Hall provided cross slopes up to 3.7% at the 90 degree turn to access the sidewalk that runs along the eastern side of the building (apparently part of egress routes discharging from building); however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) to conform with Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”
L-05 (8) The short sidewalk segment traveling towards Alvarez Hall in this area provided cross slopes up to 2.6%; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) to conform with Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: Although this sidewalk provides cross slopes in excess of the 1:48 permitted, this cross slopes could be considered to be within a reasonable tolerance based on the experience of the consultant.

L-05 (9) The sidewalk along the eastern side of Alvarez Hall provides cross slopes varying between 2.3% and 2.9%; however, walking surfaces shall provide cross slopes of 1:48 (2.08%) maximum for conformance with Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

L-05 (10) The sidewalk provided a cross slope of 2.7% at the northeast corner of Alvarez Hall before making the 90 degree turn; however, walking surfaces shall provide cross slopes of 1:48 (2.08%) maximum for conformance with Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

L-05 (11) The sidewalk around the drain in the walking surface provided a cross slope of 2.8%; however, walking surfaces shall provide cross slopes of 1:48 (2.08%) maximum for conformance with Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

L-05 (12) The sidewalk area before the egress gate discharging from Alvarez Hall provided cross slopes up to 2.2%; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) to conform with Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: Although this sidewalk provides cross slopes in excess of the 1:48 permitted, this cross slopes could be considered to be within a reasonable tolerance based on the experience of the consultant.

L-05 (13) The sidewalk connecting the accessible parking area to the sidewalk that runs north to south on the eastern side of Alvarez Hall provided varying cross slopes of 2.3% up to 4.4%; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) to conform with Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

L-05 (14) The following conditions were observed at the ramp on the east side of Alvarez Hall starting at the bottom:

a. The bottom landing provided running slopes of 2.2% up to 5.3%; however, a level landing at least 60” long the same width as the ramp segment leading to it must be provided level with a slope not steeper than 1:48 (2.08%) to conform to Section 405.7.1 – “Landings shall comply with 302. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.”

b. The second ramp segment from the bottom provided running slopes of 9.3% up 10.6%; however, ramps must provide running slopes not steeper than 8.33% (1:12) to conform to Section 405.2 – “Ramp runs shall have a running slope not steeper than 1:12.”
M-03 (1) The northern most ramp portion of the parallel curb ramp along Brenan Ave provided running slopes up to 9.7% however curb ramps must provide slopes not steeper than 1:12 (8.33%) to conform to Section 405.2 per Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

M-03 (2) The southernmost ramp portion of the parallel curb ramp along Brenan Ave at the corner near Tobin Ave provided running slopes up to 9.2% however curb ramps must provide slopes not steeper than 1:12 (8.33%) to conform to Section 405.2 per Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

M-03 (3) The clear floor space serving Emergency button “2002” provided running slopes up to 4.4% as it was located within the ramped portion of the parallel curb ramp however clear floor space serving operable parts must not be sloped greater than 1:48 (2.08%) to conform to Section 305.2 – “Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.”

M-03 (4) The asphalt walking surface crossing Brenan Ave along the southern side Tobin Ave provided a running slope up to 6.3% within the marked crossing upon leaving the curb ramp landing due to warped asphalt however running slopes not steeper than 5% (1:20) must be provided along walking surfaces to conform to Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20...”

M-03 (5) The asphalt walking surface crossing Tobin Ave along the western side Brenan Ave provided cross slopes varying between 3.3% up to 4.5% within the marked crossing upon leaving the curb ramp for the first 4’ however cross slopes not steeper than 1:48 (2.08%) must be provided along walking surfaces to conform to Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”
M-03 (6) The walking surface of the short sidewalk connecting the corner to the sidewalk along the west side of Brenan Ave provided cross slopes varying between 3.1% up to 3.9% however cross slopes not steeper than 1:48 (2.08%) must be provided along walking surfaces to conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

M-03 (7) When making the 90 degree turn to travel south on the sidewalk along the western side of Brenan Ave, the sidewalk provided cross slopes of 5.8% however cross slopes not steeper than 1:48 (2.08%) must be provided along walking surfaces to conform to Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.”

M-03 (8) The sidewalk on the southern side of Tobin Ave provided cross slopes varying between 2.6% up to 4.1% however cross slopes not steeper than 1:48 (2.08%) must be provided along walking surfaces to conform to Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

M-03 (9) The sidewalk on the western side of Brenan Ave (north of curb ramp) provided cross slopes varying between 2.6% up to 4.3% however cross slopes not steeper than 1:48 (2.08%) must be provided along walking surfaces to conform to Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

M-03 (10) The sidewalk immediately north of the curb ramp provided a cross slope of 2.5% however cross slopes not steeper than 1:48 (2.08%) must be provided along walking surfaces to conform to Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: Although walking surfaces must provide cross slopes not steeper than 1:48 to conform to Section 403.3, this could be considered to be within an acceptable tolerance based on the experience of the consultant.

M-03 (11) The northern ramp portion of the parallel curb ramp along the western side of Brenan Ave provided running slopes up to 11.9% and the southern ramped portion provided running slopes of 11.1% however curb ramps must provide slopes not steeper than 1:12 (8.33%) to conform to Section 405.2 per Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

M-03 (12) The walking surface of the sidewalk north of the driveway accessing the adjacent parking lot and south of the parallel curb ramp along the western side of Brenan Ave provided cross slopes of 2.3% up to 3.3% however cross slopes not steeper than 1:48 (2.08%) must be provided along walking surfaces to conform to Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”
M-03 (13) The uneven asphalt surface at the bottom of the curb ramp on the northern side of the parking lot driveway provided a shear change in level of ¾” however walking surfaces must conform to Section 303 (1/4” max shear change; ¼” to ½” change when beveled 1:2) per Section 403.4 – “Changes in level shall comply with 303.”

M-03 (14) The walking surface of crossing at the parking lot driveway provided a cross slope of 2.3% however cross slopes not steeper than 1:48 (2.08%) must be provided along walking surfaces to conform to Section 403.3 – “The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: Although walking surfaces must provide cross slopes not steeper than 1:48 to conform to Section 403.3, this could be considered to be within an acceptable tolerance based on the experience of the consultant.

M-03 (15) The uneven asphalt surface at the bottom of the curb ramp on the southern side of the parking lot driveway provided a shear change in level of ¾” however walking surfaces must conform to Section 303 (1/4” max shear change; ¼” to ½” change when beveled 1:2) per Section 403.4 – “Changes in level shall comply with 303.”
M-04 (1) Running slopes varying from 5.9% up to 7.3% were provided along the sidewalk on the eastern side of Brenan Ave. however running slopes not steeper than 1:20 (5%) must be provided along walking surfaces to conform to **Section 403.3** – “The running slope of walking surfaces shall not be steeper than 1:20...”

M-04 (2) The following conditions were provided at the parallel type curb ramp on the eastern side of Brenan Ave:

a. The landing provided a cross slope of 4.5% when making a 90 degree turn when traveling from the marked pedestrian crossing; however, cross slopes not steeper than 1:48 (2.08%) must be provided along walking surfaces to conform to **Section 403.3** – “...The cross slope of walking surfaces shall not be steeper than 1:48.”

b. The northern most ramped portion of the parallel curb ramp was sloped 15.7%; however, ramps shall not be sloped steeper than 1:12 (8.33%) for conformance with Section 405.2 per **Section 406.1** – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

M-04 (3) Emergency button “1722” was located in a landscape island; therefore, the operable parts of this element did not provide a clear floor or ground space complying with Section 305 for conformance with Section 309.2 per the scoping provisions of **Section 205.1** – “Operable parts on accessible elements, accessible routes, and in accessible rooms and spaces shall comply with 309.”
M-04 (4) A 1-1/2” wide and 1-1/4” deep shear change in level was provided between the concrete sidewalk and the asphalt marked pedestrian crossing; however, changes in level in walking surfaces of 1/4” high maximum are permitted to be vertical and 1/4” high minimum to 1/2” high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - “Changes in level shall comply with 303.”

M-04 (5) Cross slopes of 4.8% up to 5.3% were provided in the marked pedestrian crossing; however, cross slopes not steeper than 1:48 (2.08%) must be provided along walking surfaces to conform to Section 403.3 – “…The cross slope of walking surfaces shall not be steeper than 1:48.”

M-04 (6) The curb ramp was sloped 15.8% up to 17.0%; however, ramps shall not be sloped steeper than 1:12 (8.33%) for conformance with Section 405.2 per Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”
M-04 (7) The portion of sidewalk just after the curb ramp provided a slope of 8% which is a cross slope when making a 90 degree turn north or south; however, cross slopes not steeper than 1:48 (2.08%) must be provided along walking surfaces to conform to Section 403.3 – “...The cross slope of walking surfaces shall not be steeper than 1.48.”

M-04 (8) Cross slopes varying between 2.6% up to 6.43% were provided along the sidewalk route on the western side of Brenan Ave.; however, cross slopes not steeper than 1:48 (2.08%) must be provided along walking surfaces to conform to Section 403.3 – “...The cross slope of walking surfaces shall not be steeper than 1.48.”

M-04 (9) The curb ramp on the southern side of the parking lot driveway provided a cross slope of 4.4%; however, cross slopes of ramp runs shall not be steeper than 1:48 (2.08%) for conformance with Section 405.3 per Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”
M-04 (10) Running slopes of 8.0% were provided along this portion of the sidewalk route; however, running slopes not steeper than 1:20 (5%) must be provided along walking surfaces to conform to Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20...”

M-04 (11) Running slopes of 5.3% were provided along this 9’-2” long portion of the sidewalk route; however, running slopes not steeper than 1:20 (5%) must be provided along walking surfaces to conform to Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20...”

Tolerance Note: While this slope is in excess of the 1:20 maximum allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

M-04 (12) The sidewalk provided a slope of 3.3% which is a cross slope when making a 90 degree turn east or west; however, cross slopes not steeper than 1:48 [2.08%] must be provided along walking surfaces to conform to Section 403.3 – “…The cross slope of walking surfaces shall not be steeper than 1:48.”

M-04 (13) Cross slopes varying between 2.1% up to 4.8% were provided the sidewalk at the head-in parking; however, cross slopes shall not be not steeper than 1:48 [2.08%] along walking surfaces for conformance with Section 403.3 – “…The cross slope of walking surfaces shall not be steeper than 1:48.”
M-04 (14) This 20’ long portion of sidewalk on the western side of Brenan Ave. provided running slopes of 8.3% up to 8.8% and cross slopes of 4.1% up to 5.3%; however, running slopes shall not be steeper than 1:20 (5%) and cross slopes shall not be steeper than 1:48 (2.08%) along walking surfaces for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.”

M-04 (15) This 9’-7” long portion of sidewalk along the western side of Brenan Ave. provided running slopes of 5.7% up to 7.6%, however, running slopes shall not be steeper than 1:20 (5%) along walking surfaces for conformance with Section 403.3 – The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.”

M-04 (16) The sidewalk along the western side of Brenan Ave. provided running slopes varying between 4.0% up to 7.5% and cross slopes of 2.4% up to 3.0%; however, running slopes shall not be steeper than 1:20 (5%) and cross slopes shall not be steeper than 1:48 (2.08%) along walking surfaces for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.”
M-05 (1) A change in level was provided at the southeast corner the intersection of Bosque Street and Brennan Ave when crossing Bosque Street at the marked crossing which was not accommodated by curb ramp to conform to Section 303.4 – “Changes in level greater than ½ inch (13 mm) high shall be ramped, and shall comply with 405 or 406.”

M-05 (2) A change in level was provided at the northeast corner the intersection of Bosque Street and Brennan Ave when crossing Bosque Street at the marked crossing which was not accommodated by curb ramp to conform to Section 303.4 – “Changes in level greater than ½ inch (13 mm) high shall be ramped, and shall comply with 405 or 406.”

M-05 (3) The clear floor space serving Emergency button “2014” provided running slopes up to 2.4% however clear floor space serving operable parts must not be sloped greater than 1:48 (2.08%) to conform to Section 305.2 – “Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.”

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

M-05 (4) The sidewalk along the east side of Brennan Ave north of Bosque Street provided running slopes up to 5.3% in limited areas however running slopes not steeper than 1:20 (5%) must be provided along walking surfaces to conform to Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20...”

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

M-05 (5) The sidewalk along the west side of Brennan Ave north of Bosque Street provided running slopes up to 5.2% in limited areas and varying cross slopes of 2.1% up to 3.3% however running slopes not steeper than 1:20 (5%) and cross slopes not steeper than 1:48 (2.08%) must be provided along walking surfaces to conform to Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.”

M-05 (6) The 7-1/2’ long curb ramp at the northwest corner of the Brennan Ave and Bosque Street intersection provided running slopes up to 9.0% however curb ramps must provide slopes not steeper than 1:12 (8.33%) to conform to Section 405.2 per Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

M-05 (7) The crosswalk crossing Bosque Street along the west side of Brennan Ave provided running slopes of 5.2% resulting in counter slopes at the bottom of the curb ramp at this corner in excess of 1:20 (5%) which does not conform to Section 406.2 – “Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.”
The 37'-4” long portion of sidewalk at the south end of Brennan Ave provided running slopes of 5.8% up to 8.0% with cross slopes of 3.2% up to 6.9% however running slopes not steeper than 1:20 (5%) and cross slopes not steeper than 1:48 (2.08%) must be provided along walking surfaces to conform to Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.”

The southern most accessible parking area provided cross slopes of 2.1% up to 2.3% in limited areas however accessible parking areas must provide slopes not steeper than 1:48 (2.08%) to conform to Section 502.4 – “Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.”

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 502.4, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

The northern most accessible parking space on the western side of the parking lot provided uneven asphalt ground surfaces resulting in changes in level within the accessible parking which does not conform to Section 502.4 – “... Changes in level are not permitted. ...”

The accessible parking area on the western side of the parking lot provided running slopes of 2.2% up to 2.5% in limited areas however accessible parking areas must provide slopes not steeper than 1:48 (2.08%) to conform to Section 502.4 – “Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.”

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 502.4, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

The parking lot within this area provided a total of 165 parking spaces of which 19 parking spaces were identified as accessible; 15 car parking spaces and 4 van parking spaces which meet the requirements of Section 208.2 and 208.2.4.
M-05 (1) A change in level was provided at the southeast corner the intersection of Bosque Street and Brennan Ave when crossing Bosque Street at the marked crossing which was not accommodated by curb ramp to conform to Section 303.4 – “Changes in level greater than ½ inch (13 mm) high shall be ramped, and shall comply with 405 or 406.”

M-05 (2) A change in level was provided at the northeast corner the intersection of Bosque Street and Brennan Ave when crossing Bosque Street at the marked crossing which was not accommodated by curb ramp to conform to Section 303.4 – “Changes in level greater than ½ inch (13 mm) high shall be ramped, and shall comply with 405 or 406.”

M-05 (3) The clear floor space serving Emergency button “2014” provided running slopes up to 2.4% however clear floor space serving operable parts must not be sloped greater than 1:48 (2.08%) to conform to Section 305.2 – “Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.”

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

M-05 (4) The sidewalk along the east side of Brennan Ave north of Bosque Street provided running slopes up to 5.3% in limited areas however running slopes not steeper than 1:20 (5%) must be provided along walking surfaces to conform to Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20…”

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

M-05 (5) The sidewalk along the west side of Brennan Ave north of Bosque Street provided running slopes up to 5.2% in limited areas and varying cross slopes of 2.1% up to 3.3% however running slopes not steeper than 1:20 (5%) and cross slopes not steeper than 1:48 (2.08%) must be provided along walking surfaces to conform to Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.”

M-05 (6) The 7-1/2’ long curb ramp at the northwest corner of the Brennan Ave and Bosque Street intersection provided running slopes up to 9.0% however curb ramps must provide slopes not steeper than 1:12 (8.33%) to conform to Section 405.2 per Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

M-05 (7) The crosswalk crossing Bosque Street along the west side of Brennan Ave provided running slopes of 5.2% resulting in counter slopes at the bottom of the curb ramp at this corner in excess of 1:20 (5%) which does not conform to Section 406.2 – “Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.”
M-05 (8) The 37’-4” long portion of sidewalk at the south end of Brennan Ave provided running slopes of 5.8% up to 8.0% with cross slopes of 3.2% up to 6.9% however running slopes not steeper than 1:20 (5%) and cross slopes not steeper than 1:48 (2.08%) must be provided along walking surfaces to conform to Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.”

M-05 (9) The southern most accessible parking area provided cross slopes of 2.1% up to 2.3% in limited areas however accessible parking areas must provide slopes not steeper than 1:48 (2.08%) to conform to Section 502.4 – “Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.”

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 502.4, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

M-05 (10) The northern most accessible parking space on the western side of the parking lot provided uneven asphalt ground surfaces resulting in changes in level within the accessible parking which does not conform to Section 502.4 – “... Changes in level are not permitted. ...”

M-05 (11) The accessible parking area on the western side of the parking lot provided running slopes of 2.2% up to 2.5% in limited areas however accessible parking areas must provide slopes not steeper than 1:48 (2.08%) to conform to Section 502.4 – “Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.”

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 502.4, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

The parking lot within this area provided a total of 165 parking spaces of which 19 parking spaces were identified as accessible; 15 car parking spaces and 4 van parking spaces which meet the requirements of Section 208.2 and 208.2.4.
M-06 (1) The following conditions were observed at the ramp accessing “1.100” entry door of the portable building:

a. Running slopes varying from 8.8% at the bottom of the ramp, 10.0% in the middle, and 9.3% at the top were provided; however, ramp runs shall have a running slope not steeper than 1:12 (8.33%) for conformance with Section 405.2 – “Ramp runs shall have a running slope not steeper than 1:12.”

b. The bottom ramp landing provided a running slope of 2.3%; however, slopes not steeper than 1:48 (2.08%) shall be permitted within such landings for conformance with Section 405.7.1 Exception – “Slopes not steeper than 1:48 shall be permitted.”

Tolerance Note: While this slope in the ramp landing is in excess of the 1:48 maximum allowed by Section 405.7.1 Exception, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

M-06 (2) The wooden handrails at the stairs egressing from the portable building provided an obstruction along the entire length of the bottom of the handrail; however, the bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length for conformance with Section 505.6 – “Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1 1/2 inches (38 mm) minimum below the bottom of the handrail gripping surface.”

M-06 (3) The following conditions were provided at the front entry ramp accessing “1.100” of this portable building:

a. Running slopes up to 8.8% were provided near the middle of the ramp run; however, ramp runs shall have a running slope not steeper than 1:12 (8.33%) for conformance with Section 405.2 – “Ramp runs shall have a running slope not steeper than 1:12.”

Tolerance Note: While this slope is in excess of the 1:12 maximum allowed by Section 405.2, this may be considered to be within an acceptable tolerance based on the experience of the consultant.
b. The wooden handrails were obstructed along the entire length of the bottom of the handrail; however, the bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length for conformance with Section 505.6 – “…The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length…”

c. The outside handrail extended 10” beyond the top ramp run; however, ramp handrails shall extend horizontally above the landing for 12” minimum beyond the top ramp run for conformance with Section 505.10.1 – “Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs…”

M-06 (4) The following conditions were provided at the ramp on the east side of the portable building:

a. A 1-1/2” wide and 1-7/8” deep shear change in level was provided in the top ramp landing between the concrete panels; however, changes in level are not permitted in ramp landings for conformance with Section 405.7.1 - "Landings shall comply with 302. Changes in level are not permitted."

b. Edge protection complying with Section 405.9.1 (extended ground surface) or 405.9.2 (curb or barrier) was not provided which does not conform to Section 405.9 – “Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.”

M-06 (5) The sidewalk leading up to the tennis court entrance provided running slopes of 8.4% up to 9.8%; however, running slopes not steeper than 1:20 (5%) must be provided along walking surfaces to conform to Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1.20...”
M-06 (6) A change in level of 1-1/8" was provided at the tennis court entry gate threshold; however, floor level changes at doorways shall comply with Section 303 which requires changes in level between 1/4" high minimum and 1/2" high maximum to be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 404.2.5 - "Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303."
N-03 (1) The southern most accessible car parking space provided a width of 7'-10" however car parking spaces must provide a minimum width of 8’ (96") to conform to Section 502.3 – “Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.”

N-03 (2) The walking surface of the sidewalk from the top of the curb ramp traveling north to the corner of the building (to access security gate) provided varying cross slopes of 2.6% up 3.3% however walking surfaces of accessible routes must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “…The cross slope of walking surfaces shall not be steeper than 1:48.”

N-03 (3) The walking surface within the marked crossing on the eastern side of Brenan Ave crossing Tobin Ave provided uneven surfaces that was about 1-1/2” deep for an area of 11” by 6” however walking surfaces must conform to Section 303 (1/4” max shear change; ¼” to ½” change when beveled 1:2) per Section 403.4 – “Changes in level shall comply with 303.”

N-03 (4) A 6” change in level was provided at the curb at the northeastern corner of Brenan Ave and Tobin Ave however walking surfaces must conform to Section 303 by providing a curb ramp at this 6” change in level per Section 303.4 to conform to Section 403.4 – “Changes in level shall comply with 303.”
N-04 (1) The sidewalk along the head-in parking provided varying cross slopes of 2.8% up to 4.3% to the point while making the 90 degree to access the security gate to Laurel Village however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “...The cross slope of walking surfaces shall not be steeper than 1:48.”

N-04 (2) The maneuvering clearance (18” min past latch + gate width for a depth of 60” min) at the security gate provided running slopes of 5.2% sloping down away from the gate with uneven surfaces near the gate however maneuvering clearances at gates must meet Section 302 and be sloped not steeper than 1:48 (2.08%) to conform to Section 404.2.4.4 – “Floor or Ground Surface. Floor or ground surface within required maneuvering clearances shall comply with 302. Changes in level are not permitted. EXCEPTIONS: 1. Slopes not steeper than 1:48 shall be permitted.”

Note: It was unclear whether this gate provided an automatic opener. If an automatic opener is provided at this gate, the conditions provided within the maneuvering clearance may be safe harbored.

N-04 (3) The sidewalk provided cross slopes of 2.1% up to 2.6% when making the 90 degree turn to access the accessible entrance of Laurel Village from the accessible parking area however walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) to conform to Section 403.3 – “...The cross slope of walking surfaces shall not be steeper than 1:48.”

N-04 (4) The sidewalk provided running slopes varying between 5.5% up to 6.7% for about 7’ before the door maneuvering clearance however walking surfaces must provide running slopes not steeper than 1:20 (5%) to conform to Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20...”
N-04 (5)  The maneuvering clearance (18” min past latch + gate width for a depth of 60” min) at the accessible entry of Laurel Village provided running slopes of 7.1% within the last 3’ of the maneuvering clearance sloping down away from the door however door maneuvering clearances must not be sloped steeper than 1:48 (2.08%) to conform to Section 404.2.4.4 – “Floor or Ground Surface. Floor or ground surface within required maneuvering clearances shall comply with 302. Changes in level are not permitted. EXCEPTIONS: 1. Slopes not steeper than 1:48 shall be permitted.”

Safe Harbor: The accessible entrance at Laurel Village was an automatic door and the conditions within the door maneuvering clearance may be safe harbored as the conditions at an automatic door conform to 1990 ADACG.
N-05 (1) Emergency button “2014” was located within a landscaped island 5’ from the edge of the sidewalk and was not considered to be accessible however operable parts that are part of accessible elements, along accessible routes, and within accessible spaces must conform to Section 309 per Section 205.1 – “Operable parts on accessible elements, accessible routes, and in accessible rooms and spaces shall comply with 309.”

N-05 (2) An outdoor dining area was observed on the northern side of the campus police station which provided fixed dining surfaces. The following conditions were observed:

a. A total of four 4-top fixed tables were observed providing a total of 16 seating spaces however an accessible seating space conforming to Section 902 was not observed. At least 5% of the total number of seating spaces provided at fixed dining surfaces must meet Section 902 per Section 226.1 – “Where dining surfaces are provided for the consumption of food or drink, at least 5 percent of the seating spaces and standing spaces at the dining surfaces shall comply with 902. ...”

b. The dining area provided crushed granite ground surface which provided a loose layer of gravel on top which is not a firm surface and does not conform to Section 302.1 – “Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.”

Advisory 302.1 – “A stable surface is one that remains unchanged by contaminants or applied force, so that when the contaminant or force is removed, the surface returns to its original condition. A firm surface resists deformation by either indentations or particles moving on its surface. A slip-resistant surface provides sufficient frictional counterforce to the forces exerted in walking to permit safe ambulation.”

N-05 (3) The storm sewer box abutting the sidewalk provided a ¾” deep joint 1-1/2” wide; however, openings in floor or ground surfaces shall not allow passage of a sphere more than ½” diameter for conformance with Section 302.3 – “Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.”

N-05 (4) A portion of sidewalk with slopes up to 8% on the southern side of the campus police office that connects to a route that includes stairs down to a mechanical area. Since this area was not observed to be part of an accessible route and only accessed for mechanical purposes, it was not reviewed for conformance with the applicable guidelines per Section 203.5 - “Spaces frequented only by service personnel for maintenance, repair, or occasional monitoring of equipment shall not be required to comply with these requirements or to be on an accessible route. Machinery spaces include, but are not limited to, elevator pits or elevator penthouses; mechanical, electrical or communications equipment rooms; piping or equipment catwalks; water or sewage treatment pump rooms and stations; electric substations and transformer vaults; and highway and tunnel utility facilities.”
N-06 (1) A parking area was provided west of the northern entrance of the University Center of which two were accessible parking spaces with “Permit Required” signage underneath the accessible parking signage. Neither of these spaces was a van accessible parking space complying with Section 502; however, for every six or fraction of six accessible parking spaces, at least one shall be a van parking space complying with 502 for conformance with Section 208.2.4 – “For every six or fraction of six parking spaces required by 208.2 to comply with 502, at least one shall be a van parking space complying with 502.”

N-06 (2) Uneven asphalt surfaces at the bottom of the curb ramp provided a 3-1/2” wide gap creating varying changes in level up to 1-1/2” deep before the concrete sidewalk; however, walking surfaces with changes in level between 1/4” high minimum and 1/2” high maximum must be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 403.4 - "Changes in level shall comply with 303."
N-07 (1) Cross slopes in the general circulation area of the outdoor dining/seating area around the fountain and the table area east of the fountain varied between 3.0% and 4.8%; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “…The cross slope of walking surfaces shall not be steeper than 1:48.”

N-07 (2) Running slopes of 2.4% and 2.5% were provided at the double doors entering Campus Technology Store “1.00.46”, which provided an automatic door opener, within the 60” deep minimum approach depth of Table 404.2.4.1; however, slopes of 1:48 (2.08%) maximum are allowed for conformance with Section 404.2.4.4 Exception 1 – “Slopes not steeper than 1:48 shall be permitted.” [Safe Harbor Eligible]*

N-07 (3) Running slopes of 2.5% and 2.6% were provided at the double doors entering Granitas & Trifles “1.00.48”, which provided an automatic door opener, within the 60” deep minimum approach depth depicted in Table 404.2.4.1; however, slopes of 1:48 (2.08%) maximum are allowed for conformance with Section 404.2.4.4 Exception 1 – “Slopes not steeper than 1:48 shall be permitted.” [Safe Harbor Eligible]*

N-07 (4) Four sets of double doors were observed entering the University Center lower level Food Court from the exterior courtyard. Entry doors “1.01.30A-1”, “1.01.30A-2”, & “1.01.30A-3” provided running slopes varying from 2.6% up to 3.1% within the 60” deep minimum approach depth of Table 404.2.4.1. Entry door “1.01.30A”, which provided an automatic door opener, provided slopes of 2.0% or less within the door maneuvering approach depth; however, was not identified by the International Symbol of Accessibility complying with 703.7.2.1 for conformance with Section 216.6 – “Where not all entrances comply with 404, entrances complying with 404 shall be identified by the International Symbol of Accessibility complying with 703.7.2.1…”

N-07 (5) Cross slopes of up to 6.0% were provided in the lower level walkway between the two columns on the northern half of this sidewalk; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “…The cross slope of walking surfaces shall not be steeper than 1:48.”
N-07 (6) Cross slopes up to 3.9% were provided in the lower level walkway; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – "...The cross slope of walking surfaces shall not be steeper than 1:48."

N-07 (7) At the exterior dining area on the lower level west of the circular stairwell, primarily modular (i.e. non-fixed) tables were however three tables were affixed to the ground and appeared to be the intended accessible seating spaces. The following conditions were observed at these fixed dining surfaces:

a. Each 4-top dining table provided a chair support bar which obstructed the potential knee clearance required to be provided under all three of these tables (27" high, 30" wide, 8" deep per Section 306.3) which does not conform to Section 902.2 - "...Knee and toe clearance complying with 306 shall be provided."

b. The 4-top dining table provided closest to the University Food Court entrance provided a running slope of 3.8%; however, slopes steeper than 1:48 (2.08%) are not permitted within such a clear floor space for conformance with Section 305.2 Exception - "Slopes not steeper than 1:48 shall be permitted."

N-07 (8) A gap varying between 1" and 1-1/2" wide was provided between the concrete and brick pavers on the lower level resulting in a 2" shear change in level; however, walking surfaces with changes in level between 1/4" high minimum and 1/2" high maximum must be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 403.4 - "Changes in level shall comply with 303."
N-07 (9) Along the exterior wall of the food court, four decorative sconces projected between 7-3/4" and 8" deep into the circulation route of the lower level walkway with their leading edge (bottom of fixture) between 58" and 59-1/2" which does not meet the protrusion limits (i.e. 27" maximum to the leading edge) of Section 307.2 - "Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path."

N-07 (10) A series of steps was provided along the outdoor patio to the dining area along the sidewalk abutting the southwestern end of the University Center; however, these stairs did not have any handrails complying with Section 505 for conformance with Section 504.6 – "Stairs shall have handrails complying with 505."

N-07 (11) Cross slopes varying between 2.9% up to 4.1% were provided along the sidewalk on the southwest side of the University Center; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – "...The cross slope of walking surfaces shall not be steeper than 1:48."

N-07 (12) Cross slopes varying between 4.9% up to 6.8% were provided in this portion of the sidewalk; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – "...The cross slope of walking surfaces shall not be steeper than 1:48."

N-07 (13) Running slopes of 2.4% were provided at the double doors entering “1.01.02-1” within the 60" deep minimum approach depth of Table 404.2.4.1; however, slopes of 1:48 (2.08%) maximum are allowed for conformance with Section 404.2.4.4 Exception 1 – "Slopes not steeper than 1:48 shall be permitted."

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 404.2.4.4 Exception 1, this may be considered to be within an acceptable tolerance based on the experience of the consultant.
N-07 (14)  The 3” long ramp directly outside “1.01.02-2 Emergency Exit Only” door at the University Center provided running slopes varying from 8.4% to 9.2%; however, ramp runs shall have a running slope not steeper than 1:12 (8.33%) for conformance with Section 405.2 – “Ramp runs shall have a running slope not steeper than 1:12.”

N-07 (15)  A significant crack between the brick pavers resulted in a 3/4” deep shear change in level; however, walking surfaces with changes in level between 1/4” high minimum and 1/2” high maximum must be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 403.4 - "Changes in level shall comply with 303."

N-07 (16)  A loose flagstone at the corner of the walkway provided an uneven surface with a 1” wide and 1” deep shear change in level; however, walking surfaces with changes in level between 1/4” high minimum and 1/2” high maximum must be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 403.4 - "Changes in level shall comply with 303."

N-07 (17)  The following conditions were observed at the ramp located on the northwest face of the H-E-B University Center:

a.  Running slopes of 9.2% were provided in a limited area in the middle of the bottom ramp run; however, ramp runs shall have a running slope not steeper than 1:12 (8.33%) for conformance with Section 405.2 – “Ramp runs shall have a running slope not steeper than 1:12.”

**Tolerance Note:** While this slope is in excess of the 1:12 maximum allowed by Section 405.2, this condition in a limited area may be considered to be within an acceptable tolerance based on the experience of the consultant.
b. The top landing of the ramp measured 4'-2" long; however, the landing clear length shall be 60” long minimum for conformance with Section 405.7.3 – “The landing clear length shall be 60 inches (1525 mm) long minimum.”

c. The handrail at the top of the ramp did not extend 12” horizontally above the top ramp run on the inside of the ramp; however, ramp handrails shall extend horizontally above the landing for 12” minimum beyond the top ramp run for conformance with Section 505.10.1 – “Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs…”

N-07 (18) Cross slopes varying between 2.9% up to 3.5% were provided along this portion of the walking surface; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “The cross slope of walking surfaces shall not be steeper than 1:48.”

N-07 (19) The following conditions were observed at the 2’ long apparently egress only ramp outside door “1.006.1”:

a. A running slope of 9.0% was provided in a limited area in the middle of the bottom ramp run; however, ramp runs shall have a running slope not steeper than 1:12 (8.33%) for conformance with Section 405.2 – “Ramp runs shall have a running slope not steeper than 1:12.”

   Tolerance Note: While this slope is in excess of the 1:12 maximum allowed by Section 405.2, this condition in a limited area may be considered to be within an acceptable tolerance based on the experience of the consultant.

b. A handrail was not provided on the inside of this ramp; however, handrails must be on both sides of the ramp for conformance with Section 505.2 per Section 405.8 – “Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.”

N-07 (20) A running slope of 3.7% was provided at the automatic doors entering H-E-B University Center “1200.18” within the first 2’ of the 60” deep minimum approach depth of in Table 404.2.4.1; however, slopes of 1:48 (2.08%) maximum are allowed for conformance with Section 404.2.4.4 Exception 1 – “Slopes not steeper than 1:48 shall be permitted.” [Safe Harbor Eligible]*

N-07 (21) Lower level stairs at this location provided handrails with a top gripping surface height of 39-1/2” to 40” above the stair nosings; however, the top of gripping surfaces of handrails shall be 34” minimum and 38” maximum vertically above stair nosings for conformance with Section 505.4 – “Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces…”

N-07 (22) The exterior dining area on the lower level provided nine 4-top dining tables of which two were the intended accessible seating spaces; however, at each of these two seating spaces, a chair support bar obstructed the potential knee clearance under these tables (27” high, 30” wide, 8” deep per Section 306.3) which does not conform to Section 902.2 - ”...Knee and toe clearance complying with 306 shall be provided.”
N-07 (23) Running slopes of 2.2% to 2.3% were provided at upper level H-E-B University Center entrance “2.200.1” within the 60” deep minimum approach depth of Table 404.2.4.1; however, slopes of 1:48 (2.08%) maximum are allowed for conformance with Section 404.2.4.4 Exception 1 – “Slopes not steeper than 1:48 shall be permitted.”

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 404.2.4.4 Exception 1, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

N-07 (24) A running slope of 2.6% was provided at upper level University Center entrance “2.01-1” within the 60” deep minimum approach depth of Table 404.2.4.1; however, slopes of 1:48 (2.08%) maximum are allowed for conformance with Section 404.2.4.4 Exception 1 – “Slopes not steeper than 1:48 shall be permitted.”

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 404.2.4.4 Exception 1, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

N-07 (25) Along the upper level exterior corridor at the University Center, two decorative sconces projected between 7-3/4" and 8” deep into the circulation route of the walkway with their leading edge (bottom of fixture) between 58” and 59-1/2” which do not meet the protrusion limits (i.e. 27” maximum to the leading edge) of Section 307.2 - "Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path."

N-07 (26) Cross slopes varying between 2.2% and 2.3% were provided along this portion of the upper level exterior corridor walking surface at the University Center; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – "...The cross slope of walking surfaces shall not be steeper than 1:48."

Tolerance Note: While these slopes are in excess of the 1:48 maximum allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

N-07 (27) Along the upper level exterior corridor at the University Center, the ramp in this location provided running slopes of 8.7% near the bottom of the ramp and 8.6% in a limited spot at the top of the ramp; however, ramp runs shall have a running slope not steeper than 1:12 (8.33%) for conformance with Section 405.2 – “Ramp runs shall have a running slope not steeper than 1:12.”
N-08 (1) The following conditions were observed at the ramp at the southeast face of the H-E-B University Center:

a. The top 32” of the ramp provided cross slopes of 3.1% up to 4.3%; however, cross slopes of ramp runs shall not be steeper than 1:48 (2.08%) for conformance with **Section 405.3** – “Cross slope of ramp runs shall not be steeper than 1:48.”

b. The top ramp landing provided cross slopes of 3.6%; however, slopes not steeper than 1:48 (2.08%) shall be permitted within ramp landings for conformance with **Section 405.7.1** – “Slopes not steeper than 1:48 shall be permitted.”

N-08 (2) This curb ramp accessing the sidewalk located southwest of the H-E-B University Center provided a running slope of 8.6%; however, ramp runs shall have a running slope not steeper than 1:12 (8.33%) per Section 405.2 for conformance with **Section 406.1** – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

**Tolerance Note:** While this slope is in excess of the 1:12 maximum allowed by Section 406.1, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

N-08 (3) The sidewalk southwest of the H-E-B University Center provided cross slopes varying from 2.6% up to 2.9% across four concrete panels in the middle section of the sidewalk; however, cross slopes shall not be steeper than 1:48 (2.08%) for conformance with **Section 403.3** – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

N-08 (4) The ramped portion of the parallel type curb ramp provided running slopes of 7.9% up to 8.6% for two panels just before the textured portion of the ramp and a running slope of 8.5% on the textured portion; however, curb ramps shall provide running slopes not steeper than 1:12 (8.33%) for conformance with Section 405.2 per **Section 406.1** – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

N-08 (5) Uneven asphalt surfaces at the bottom of the curb ramp provided a 10” wide gap creating changes in level of 1-1/2” deep before the concrete sidewalk; however, walking surfaces with changes in level between 1/4” high minimum and 1/2” high maximum must be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per **Section 403.4** - "Changes in level shall comply with 303."
N-08 (6) Running slopes of 5.1% up to 5.4% were provided in limited areas at the top of the walkway just before connecting to the concrete pad near the Ximenez Ave. Garage; however, the running slope of walking surfaces shall not be steeper than 1:20 (5%) for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20...”

Tolerance Note: While this slope is in excess of the 1:20 maximum allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

N-08 (7) Cross slopes up to 2.2% were provided in the marked asphalt pedestrian crossing in front of the Ximenes Ave. Garage; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

N-08 (8) The connecting sidewalk route at the southwest corner of the Ximenes Ave. Garage provided running slopes of 5.4% up to 6.1%; however, the running slope of walking surfaces shall not be steeper than 1:20 (5%) for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20...”
At H-E-B University double entry doors “1.300”, a running slope of 3.2% was provided within the 60" deep minimum approach depth of Table 404.2.4.1; however, slopes not steeper than 1:48 (2.08%) are permitted for conformance with Section 404.2.4.4 Exception 1 – “Slopes not steeper than 1:48 shall be permitted.” [Safe Harbor Eligible]*
O-04 (1) The top curb ramp landing at the southwest corner of Tobin Ave. Garage provided running slopes of 3.8% (same direction as ramp) and cross slopes of 3.2% (perpendicular to ramp surface) resulting in cross slopes in excess of the 1:48 (2.08%) when making the 90 degree turns in the walking surfaces to access the surrounding sidewalks which does not conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

O-04 (2) A cross slope of 3.6% was provided in the walking surface of the sidewalk beyond the flare of the curb ramp however walking surfaces must not be slopes more than 1:48 (2.08%) to conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

O-04 (3) When traveling along the western side of the parking garage, an accessible route is marked by signage to cross Cook Rd. to bypass non-compliant cross slope conditions within the driveway of the Tobin Ave. Garage. The following conditions were observed along the accessible route:

a. The bottom landing area of the southernmost curb ramp provided cross slopes of 2.9% (perpendicular to ramp surface) and running slopes of 3.4% (same direction as ramp) resulting in cross slopes in excess of the 1:48 (2.08%) when making the 90 degree turn in the walking surface which does not conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

b. When crossing the street at the northernmost marked crossing back to the parking garage sidewalk, a cross slope of 2.9% was provided on the sidewalk before making the 90 degree turn to access the curb ramp north of the parking garage driveway resulting in cross slopes in excess of the 1:48 (2.03%) which does not conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

c. The curb ramp north of the parking garage driveway provided running slopes of 8.4% up to 8.9% however curb ramps must provide slopes not steeper than 1:12 (8.33%) to conform for Section 405.2 per Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

O-04 (4) The sidewalk along the west side of the Tobin Ave. Garage provided cross slopes varying between 2.6% and 3.0% from the top of the curb ramp up to the first light pole however walking surfaces must not be sloped steeper than 1:48 (2.08%) to conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”
O-04 (5)  The last four panels of the sidewalk before the northwest corner of the Tobin Ave. Garage provided cross slopes varying between 2.2% and 2.7% however walking surfaces must not be sloped more than 1:48 (2.08%) to conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: Although slopes slightly in excess of 2.08% are provided in limited spots in this area, this condition could be considered to be within an acceptable tolerance based on the experience to the consultant.
O-05 (1) Two accessible parking spaces with a shared access aisle were provided in this area serving the Bosque Street Building. The following conditions were observed:

  a. Both the accessible parking spaces and shared access aisle provided uneven asphalt surfaces which resulted in changes in level throughout the accessible parking area which is not permitted for conformance with Section 502.4 – “...Changes in level are not permitted.”

  b. Cross slopes varying from 3.0% to 4.8% were provided in the western most space and 3.1% to 2.5% were provided on the shared access aisle; however, slopes not steeper than 1:48 (2.08%) are permitted in accessible parking areas for conformance with Section 502.4 Exception – “Slopes not steeper than 1:48 shall be permitted.”

  c. A sign containing the designation “van accessible” was not provided at either of the accessible spaces to designate a van accessible parking space. For compliance with Section 208.2.4, for every six or fraction of six parking spaces stipulates Section 208.2 to meet Section 502; therefore, the lack of “van accessible” signage does not conform to Section 502.6 – “Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the designation "van accessible."”

  d. The accessible parking identification signage on the western most space was located 43-3/4” above the ground to the bottom of the sign and the accessible parking identification signage on the eastern most space was located 49-3/4” above the ground to the bottom of the sign; however, such signs shall be 60” minimum above the ground surface measured to the bottom of the sign for conformance with Section 502.6 – “Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign.”

O-05 (2) A 7’-2” long portion of built-up asphalt just before the concrete along this connecting route near the Bosque Street Building parking provided running slopes varying from 7.8% up to 11%; however, the running slope of walking surfaces shall not be steeper than 1:20 (5%) for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20...”
O-05 (3) Along the sidewalk connecting route, a 7/8” shear change in level was provided between the concrete panels; however, changes in level in walking surfaces of 1/4” high maximum are permitted to be vertical and 1/4” high minimum to 1/2” high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."

O-05 (4) Along the sidewalk route, a 3/4” shear change in level was provided at the 45 degree angle turn west between the concrete panels; however, changes in level in walking surfaces of 1/4” high maximum are permitted to be vertical and 1/4” high minimum to 1/2” high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."

O-05 (5) The following conditions were observed at the stairs accessing the Bosque Street Building on the southern face of the facility:

a. Both the handrails on the ends of the stairs were located 32” to 33-1/2” above the stair nosing to the top of the gripping surface; however, shall be 34” minimum and 38” maximum vertically above stair nosings measured the top gripping surfaces for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces."

b. The top handrail extensions did not return to a wall, guard, or landing surface which does not conform to Section 505.10.2 - "...Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

c. The bottom handrail extensions did not return to a wall, guard, or landing surface which does not conform to Section 505.10.3 - "... Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

d. The handrails at the bottom tread on each side of the stairway sloped 6” beyond the bottom tread; however, since the treads were 13” deep, they did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

O-05 (6) Cross slopes up to 2.4% were provided along this portion of the sidewalk route on the southern side of Bosque St. Building; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – "... The cross slope of walking surfaces shall not be steeper than 1:48."

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

O-05 (7) When traveling along this connecting sidewalk route, slopes of 3.7% up to 4.0% were provided which constituted cross slopes when traveling along the sidewalk that runs north to south on the east side of Bosque St. Building; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – "... The cross slope of walking surfaces shall not be steeper than 1:48."
O-05 (8) Cross slopes varying from 3.2% up to 5% were provided along this portion of the sidewalk route connecting to the driveway at the southeast corner of the Bosque St. Building; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

O-05 (9) Running slopes varying between 8.0% up to 10.6% were provided along this portion of the sidewalk route traveling toward Cood Rd. from the Bosque St. Building; however, running slopes of walking surfaces shall not be steeper than 1:20 (5%) for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20...”

O-05 (10) The curb ramp at the northwest corner of Cook Rd. and Devine Ave. provided a running slope of 10.2%; however, curb ramps shall provide a slope of 1:12 (8.33%) maximum for conformance with Section 405.2 per Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.10.”

O-05 (11) The top landing of the curb ramp on the western side of Cook Rd. north of Devine Ave. provided a cross slopes of 3.8% when making a 90 degree turn north or south; however, walking surfaces shall provide cross slopes of 1:48 (2.08%) maximum for conformance with Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

O-05 (12) The following conditions were observed at the curb ramp when crossing Cook Rd:

a. A running slope of 10.2% was provided on the ramped surface; however, curb ramps shall provide a slope of 1:12 (8.33%) maximum for conformance with Section 405.2 per Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

b. A cross slope of 3.5% was provided on the ramped surface; however, curb ramps shall provide a cross slope of 1:48 (2.08%) maximum for conformance with Section 405.3 per Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

c. At the bottom of the curb ramp, uneven asphalt surfaces within the street resulted in shear changes in level of 1-1/4” deep; however, changes in level in walking surfaces of 1/4” high maximum are permitted to be vertical and 1/4” high minimum to 1/2” high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - “Changes in level shall comply with 303.”

O-05 (13) Cross slopes varying of 2.2% up to 2.6% were provided on the western half of the marked pedestrian crossing at Cook Rd. and 3.1% up to 3.8% on the eastern half of the cross walk. Walking surfaces shall provide cross slopes of 1:48 (2.08%) maximum for conformance with Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

O-05 (14) The landing at the parallel curb ramp along the sidewalk on the eastern side of Cook Rd. provided cross slopes of 2.9% up to 3.3% when making the 90 degree turn north or south; however, walking surfaces shall provide cross slopes of 1:48 (2.08%) maximum for conformance with Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”
O-05 (15) Running slopes of 5.6% up to 7.4% were provided along the sidewalk traveling northwest toward the northern side of Bosque St. Building as well as cross slopes varying between 4.0% up to 8.1%; however, the running slope of walking surfaces shall be 1:20 (5%) maximum and the cross slope of walking surfaces shall be 1:48 (2.08%) maximum for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.”

O-05 (16) When traveling north to south on the east side of Bosque St. Building, cross slopes varying between 2.3% upwards of 5% were provided on both sides of this entire connecting route; however, walking surfaces shall provide cross slopes of 1:48 (2.08%) maximum for conformance with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

O-05 (17) Running slopes along the walking surface in this area of this connecting route measured up to 5.5%; however, the running slope of walking surfaces shall be 1:20 (5%) maximum for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20…”

O-05 (18) The curb ramp on the southern side of Bosque St. provided cross slopes of 2.6% up to 3.3% just after the truncated dome surface; however, curb ramps shall provide a cross slope of 1:48 (2.08%) maximum for conformance with Section 405.3 per Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

O-05 (19) Running slopes along the angled sidewalk on the south side of Bosque St. measured between 9.8% and 11.7%; however, the running slope of walking surfaces shall be 1:20 (5%) maximum for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20…”

O-05 (20) Cross slopes varying between 3.0% and 6.0% were provided in this general area of the sidewalk on the southern side of Bosque St.; however, walking surfaces shall provide cross slopes of 1:48 (2.08%) maximum for conformance with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

O-05 (21) Cross slopes along the ramped portion of sidewalk abutting the southern side of Bosque St. measured upwards of 2.8%; however, walking surfaces shall provide cross slopes of 1:48 (2.08%) maximum for conformance with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

O-05 (22) When traveling across Bosque St. toward Laurel Village within each of the marked pedestrian crosswalks, running slopes up to 5.9% were provided with cross slopes up to 2.8%. Walking surfaces shall provide running slopes of 1:20 (5%) maximum and cross slopes of 1:48 (2.08%) maximum for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: While slopes within these crosswalks were in excess of the 1:20 maximum running and 1:48 maximum cross allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.
O-05 (23) The following conditions were provided along this sidewalk route in front of the accessible parking area serving the Laurel Village:

a. Running slopes of 5.6% up to 6.6% were provided; however, the running slope of walking surfaces shall be 1:20 (5%) maximum for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20...”

b. Cross slopes varying between 2.4% up to 3.4% were provided; however, walking surfaces shall provide cross slopes of 1:48 (2.08%) maximum for conformance with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

c. When traveling from the accessible parking area onto the sidewalk route, the 5.6% to 6.6% running slopes of the sidewalk resulted in cross slopes in excess of 1:48 (2.08%) when making the 90 degree turn onto the concrete. Since these slopes at these access points of the accessible parking access aisles were in excess of 1:48 (2.08%), they do not conform to Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

O-05 (24) The following conditions were observed at the accessible parking area serving Laurel Village:

a. The northern most accessible car parking space (8’ wide) was served by a 4'-8” wide access aisle however access aisles must be 60” (5’) wide minimum to conform to Section 502.3.1 – “Access aisles serving car and van parking spaces shall be 60 inches (1525 mm) wide minimum.”

b. The accessible parking area, with exception of the northern most accessible car parking space, provided running and cross slopes up to 5.1% however accessible parking spaces must provide slopes not steeper than 1:48 (2.08%) in all directions to conform to Section 502.4 – “Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.”

O-05 (25) The curb ramp along the accessible route from the accessible parking area to the closest gate accessing Laurel Village provided running slopes of 9.2% however curb ramps must be sloped not steeper than 1:12 (8.33%) per Section 405.2 to conform to Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

O-05 (26) After making the 90 degree turn at the top of the curb ramp referenced in Item# 25, cross slopes of 2.8% up to 4.0% were provided along the sidewalk before turning to access the closest gate to Laurel Village however walking surfaces of accessible routes must provide slopes not steeper than 1: 48 (2.08%) to conform to Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”
O-05 (27) The curb ramp on the northern side of Bosque St. at the marked crossing provided running slopes of 8.8% at the top up to 10.0% at the bottom of the ramp however curb ramps must be sloped not steeper than 1:12 (8.33%) per Section 405.2 to conform to Section 406.1 — “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

O-05 (28) The portion of the sidewalk between the top of the curb ramp and the intersection of the sidewalk routes south of Laurel Village provided cross slopes up to 2.5% however walking surfaces of accessible routes must provide slopes not steeper than 1: 48 (2.08%) to conform to Section 403.3 — “… The cross slope of walking surfaces shall not be steeper than 1:48.”

**Tolerance Note:** While slopes within this walking surface were in excess of the 1:48 maximum cross slope allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

O-05 (29) The sidewalk at the southeastern corner of the Laurel Village provided cross slopes of 3.6% to 3.8% before making a 90 degree turn either north or south however walking surfaces of accessible routes must provide slopes not steeper than 1: 48 (2.08%) to conform to Section 403.3 — “… The cross slope of walking surfaces shall not be steeper than 1:48.”

O-05 (30) The bottom landing of the curb ramp near Laurel Village on the west side of Cook Rd. provided cross slopes of 2.5% before entering the marked crossing however walking surfaces of accessible routes must provide slopes not steeper than 1: 48 (2.08%) to conform to Section 403.3 — “… The cross slope of walking surfaces shall not be steeper than 1:48.”

**Tolerance Note:** While slopes within this walking surface were in excess of the 1:48 maximum cross slope allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

O-05 (31) The asphalt walking surface upon immediately accessing the marked crossing traveling diagonally across Cook Rd. provided cross slopes of 3.4% however walking surfaces of accessible routes must provide slopes not steeper than 1: 48 (2.08%) to conform to Section 403.3 — “… The cross slope of walking surfaces shall not be steeper than 1:48.”

O-05 (32) The asphalt walking surface at the southern end of the marked crossing opposite the parking garage provided cross slopes of 2.5% however walking surfaces of accessible routes must provide slopes not steeper than 1: 48 (2.08%) to conform to Section 403.3 — “… The cross slope of walking surfaces shall not be steeper than 1:48.”

**Tolerance Note:** While slopes within this walking surface were in excess of the 1:48 maximum cross slope allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

O-05 (33) A 1-1/2” wide gap providing a depth greater than ¼” was provided between the header curb and the truncated dome surface of the curb ramp however opening in ground surfaces shall not allow the passage of a sphere more than ½” in diameter to conform to Section 302.3 — “Openings in floor or ground surfaces shall not allow passage of a sphere more than ½ inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.”

O-05 (34) The portion of sidewalk on the eastern side of Cook Rd. provided cross slopes up to 2.5% in a limited area however walking surfaces of accessible routes must provide slopes not steeper than 1: 48 (2.08%) to conform to Section 403.3 — “… The cross slope of walking surfaces shall not be steeper than 1:48.”

**Tolerance Note:** While slopes within this walking surface were in excess of the 1:48 maximum cross slope allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.
O-05 (35) The sidewalk connecting to the ramp at the northern side entrance of Bosque St. Building provided cross slopes up to 3.8% before accessing the bottom landing of the ramp at the Campus Police Building. However, walking surfaces of accessible routes must provide slopes not steeper than 1:48 (2.03%) to conform to Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

O-05 (36) The following conditions were observed at the switchback ramp accessing the north side entrance to the Bosque St. Building:

a. The bottom landing provided a running slope of 2.4% however landings at ramps must provide slopes not steeper than 1:48 (2.08%) to conform to Section 405.7.1 – “Landings shall comply with 302. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.”

b. The outside handrail at the bottom of the switchback ramp did not extend 12” beyond the bottom ramp segment. In addition, the handrails at the bottom of the switchback ramp did not return to the wall, guard, or landing surface.

c. The outside handrail at the top of the bottom ramp segment did not extend over the change in direction landing surface.

d. The outside handrail at the bottom of the top ramp segment did not return to the wall, guard, or landing surface.

e. The handrails at the top of the switchback ramp did not extend 12” horizontally beyond the top of the ramp surface.

The switchback handrail extensions did not conform to Section 505.10.2 – “Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.”

O-05 (37) The following conditions were observed at the stairs at the front of the north side entrance to the Bosque St. Building:

a. The outside handrail extension at the top of the stairs did not return to the wall, guard, or landing surface which does not conform to Section 505.10.2 – “At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.”
b. Both handrail extensions at the bottom of the stairs did not return to wall, guard, or landing surface which does not conform to Section 505.10.3 – “At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.”
O-06 (1) The following conditions were observed at the passenger drop off located at the north entrance of the University Center:

a. A marked access aisle to discourage parking in it was not provided for conformance with Section 503.3.3 - “…Access aisles shall be marked so as to discourage parking in them.”

b. From the asphalt to the top of the curb, a 1-1/8” shear change in level was provided with an additional 5/8” shear change between the top of the curb and the concrete; however, passenger loading zone access aisles shall adjoin an accessible route which must meet Section 303 which stipulates changes in level ¼” high minimum and ½” high maximum are permitted with a beveled slope not steeper than 1:2 for conformance with Section 503.3 – “…Access aisles shall adjoin an accessible route and shall not overlap the vehicular way.”

O-06 (2) Cross slopes up to 4.0% were provided at the corner when traveling east along the sidewalk in front of the University Center; however, cross slopes shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

O-06 (3) When traveling along the sidewalk abutting the north east face of the University Center, an auto sprinkler connection projected into the circulation route 9” with a leading edge at 33” above the ground which does not meet the protrusion limits of Section 307.2 - “Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.”

O-06 (4) Cross slopes varying between 2.6% up to 4.3% were provided at the sidewalk abutting the landscape island at the northwest corner of the University Center; however, cross slopes shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

O-06 (5) Cross slopes of 2.5% were provided along this rear egress discharging from University Center “1.00.18”; however, cross slopes shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.
O-06 (6) Running slopes varying between 5.5% up to 9.0% were provided along this 17'-2" long portion of the sidewalk walking surface when egressing from University Center “1.00.18” just before the T-intersection, however, the running slope of walking surfaces shall not be steeper than 1:20 (5%) for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20...”

O-06 (7) A 1” wide and 2-5/8” deep shear change in level was provided between the concrete sidewalk and the storm sewer concrete panel; however, changes in level in walking surfaces of 1/4” high maximum are permitted to be vertical and 1/4” high minimum to 1/2” high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."

O-06 (8) The ramped portion of the curb ramp just before the crossing Cook Rd. at Bartlett Cocke Rd. provided a running slope of 9.1%; however, the slope of ramp runs shall not be steeper than 1:12 (8.33%) per Section 405.2 for conformance with Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

O-06 (9) A crack in the concrete resulted in a 3/4” wide and 2-3/4” deep shear change in level in the walking surface; however, changes in level in walking surfaces of 1/4” high maximum are permitted to be vertical and 1/4” high minimum to 1/2” high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."
O-06 (10) Cross slopes up to 3.1% were provided along the west side of Cook Rd. near; however, cross slopes shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

O-06 (11) The cracked concrete at the curb ramp just before the marked crossing at Devine Ave. and Cook rd. created uneven surfaces with changes in level greater than ¼” shear; however, openings in ground surfaces shall not allow passage of a sphere more than ½” diameter for conformance with Section 302.3 – “Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter...”

O-06 (12) The sidewalk on the eastern side of University Dr. provided running slopes between 5.9% and 6.2% and cross slopes between 2.3% up to 6.3%; however, the running slope of walking surfaces shall not be steeper than 1:20 (5%) and cross slopes shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.”

O-06 (13) The ramped portion of the curb ramp at the crosswalk just before the crossing University Dr. provided a running slope of 13.6%; however, the slope of ramp runs shall not be steeper than 1:12 (8.33%) per Section 405.2 for conformance with Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

O-06 (14) Cross slopes of 2.4% up to 2.8% were provided along two of the concrete panels on the sidewalk east of the drop off area; however, cross slopes shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “... The cross slope of walking surfaces shall not be steeper than 1:48.”

**Tolerance Note:** While this slope is in excess of the 1:48 maximum allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.
The curb ramp on the northern side of the crosswalk crossing University Dr. provided a running slope of 19.3%; however, the slope of ramp runs shall not be steeper than 1:12 (8.33%) per Section 405.2 for conformance with Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

Along this entire connecting sidewalk route and the marked pedestrian crossing through the parking lot between University Dr. and the parking lot driveway at Bosque St. Building, cross slopes varying between 2.5% up to 4.2% were provided; however, cross slopes shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

A cross slope of 4.4% was provided at the top of the curb ramp within the landing on the north side of University Center Dr. which required a user to turn 90 degrees east or west when traveling along this sidewalk route; however, cross slopes shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

The curb ramp just before the cross walk on the north side of University Dr. provided a running slope of 11.4%; however, the slope of ramp runs shall not be steeper than 1:12 (8.33%) per Section 405.2 for conformance with Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

Cross slopes of 3.3% up to 4.7% were provided within the marked pedestrian crosswalk crossing University Center Dr. towards the drop off area; however, cross slopes shall not be steeper than 1:48 (2.08%) within walking surfaces for conformance with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”
The following conditions were provided within the curb ramp south of the marked pedestrian crosswalk crossing University Center Dr. toward the drop off area:

a. Changes in level varying from 1” shear and ~2” wide were provided between the header curb and the eroded asphalt; however, changes in level in walking surfaces of 1/4” high maximum are permitted to be vertical and 1/4” high minimum to 1/2” high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."

b. The ramped portion of this curb ramp just before the cross walk provided a running slope of 13.3%; however, the slope of ramp runs shall not be steeper than 1:12 (8.33%) per Section 405.2 for conformance with Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

O-06 (21) A cross slope of 3.4% was provided at the top of the curb ramp within the landing which required a user to turn 90 degrees east or west when traveling along this sidewalk route; however, cross slopes shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

O-06 (22) The ramped portion of this curb ramp on route to the accessible parking area west of the University Center provided a running slope of 9.6%; however, the slope of ramp runs shall not be steeper than 1:12 (8.33%) per Section 405.2 for conformance with Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

O-06 (23) Cross slopes of 2.9% up to 4.4% were provided along this portion of the concrete sidewalk up to the 90 degree turn east; however, cross slopes shall not be steeper than 1:48 (2.08%) within walking surfaces for conformance with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

O-06 (24) Cross slopes of 2.4% up to 4.4% were provided along this portion of the concrete sidewalk on the south side of University Dr. up to the 90 degree turn; however, cross slopes shall not be steeper than 1:48 (2.08%) within walking surfaces for conformance with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.” Also, loose gravel from the landscape area was provided along the sidewalk which resulted in a slippery ground surface which does not conform to Section 302.1 – “Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.”

O-06 (25) The making the 90 degree turn north toward the sidewalk on the eastern side of University Center Dr., a cross slope of 8.2% was provided after the curb ramp; however, cross slopes shall not be steeper than 1:48 (2.08%) within walking surfaces for conformance with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

O-06 (26) Cross slopes of 2.5% up to 3.2% were provided in the hatched area which appears to be part of a connecting route; however, cross slopes shall not be steeper than 1:48 (2.08%) within walking surfaces for conformance with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”
P-04 (1) At the stairs located on the south west corner of the Tobin Ave. Garage, the inside handrail at the top of the stairs did not extend horizontally above the landing for at least 12” inches directly above the first riser nosing or return to the landing surface for conformance with Section 505.10.2 – “At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.”

P-04 (2) The following conditions were provided at the ramp at the south west corner of the Tobin Ave. Garage:

a. The change in direction landing measured 55” long; however, such landings shall have a clear dimension of 60” minimum by 60” minimum for conformance with Section 405.7.4 – “Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum.”

b. At the bottom ramp run, the outside handrails provided the top of gripping surfaces at 33-1/2” to 33-3/4” above the ramp surface; however, handrails shall be 34” minimum and 38” maximum vertically above ramp surfaces for conformance with Section 505.4 – “Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.” [Safe Harbor Eligible with Tolerance]*

Note: Although Section 505.4 provides handrail mounting height requirements with a minimum and maximum end point and conventional industry tolerances are prohibited per Section 104.1.1, these may be safe harbored as such tolerances were allowed per ADAAG 3.2.

c. The inside handrail did not extend 12” horizontally above the top landing or return to the wall or landing surface for conformance with Section 505.10.1 – “Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.”

P-04 (3) A 10” long portion of the sidewalk just before the bottom ramp landing provided a running slope of 11.1%; however, running slopes not steeper than 1:20 (5%) must be provided along walking surfaces to conform to Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20...”