

September 9, 2025

Dave Valentine
Carroll County Public Schools
48 Monroe Street
Westminster, MD 21157

re: Stadium & Facility Evaluation; Sports Lighting Structure Inspections Project #25-0825B
Carroll County Public Schools; Liberty High School Stadium
5855 Bartholow Road, Sykesville, MD 21784

Mr. Valentine:

Please find enclosed the results of the sports lighting pole inspections referenced above and performed at your facility on August 26th.

Overview:

1. SAFE performed inspections on all four (4) sports lighting poles at the football stadium. Inspections included general condition assessment and visual weld inspections as well as non-destructive weld examinations of all welds in the vicinity of the bases. Aerial inspection was performed by an unmanned aerial vehicle (UAV) DJI Mini 2 (FAA registration #FA3EX7P9XC).



Aerial View

2. The poles were previously inspected by ReliaPole Inspection Services in 2010 - report dated September 10, 2010.
3. For identification purposes, field satellite view and pole labels are shown on the aerial site plan attached. The identification numbers match ReliaPole's 2010 inspection pole numbers.
4. All of the poles are approximately 80' in height, 16-sided polygonal poles (slip-jointed sections) and anchored via eight (8) anchor rods to concrete foundations. The grout installed below the base plates was previously removed.
5. The poles were manufactured by Millerbernd (model #80FP) of Winsted, MN, and were installed in the early 1980's per school personnel. The poles each support fifteen (15) light fixtures on side mounted cages.
6. All of the poles have a weathering steel finish. Weathering steel is a high-strength low-alloy steel that was originally developed by United States Steel in the 1930's to resist corrosion.
7. The poles have climbing steps bolts and safety climb cables installed.



Typical Pole Configuration (Pole W4)

Observations:

1. Through both visual and non-destructive weld testing of the critical structure base welds, no base weld cracking was identified. The base plate circumferential welds, shaft longseam welds at the base, and base handhole welds were inspected. All welds inspected passed a visual weld inspection per AWS D1.1-2020, *Structural Welding Code – Steel*. Critical base welds also passed the non-destructive weld examinations (magnetic particle and ultrasound testing) performed. The base weld is a socket weld connection with fillet welds.

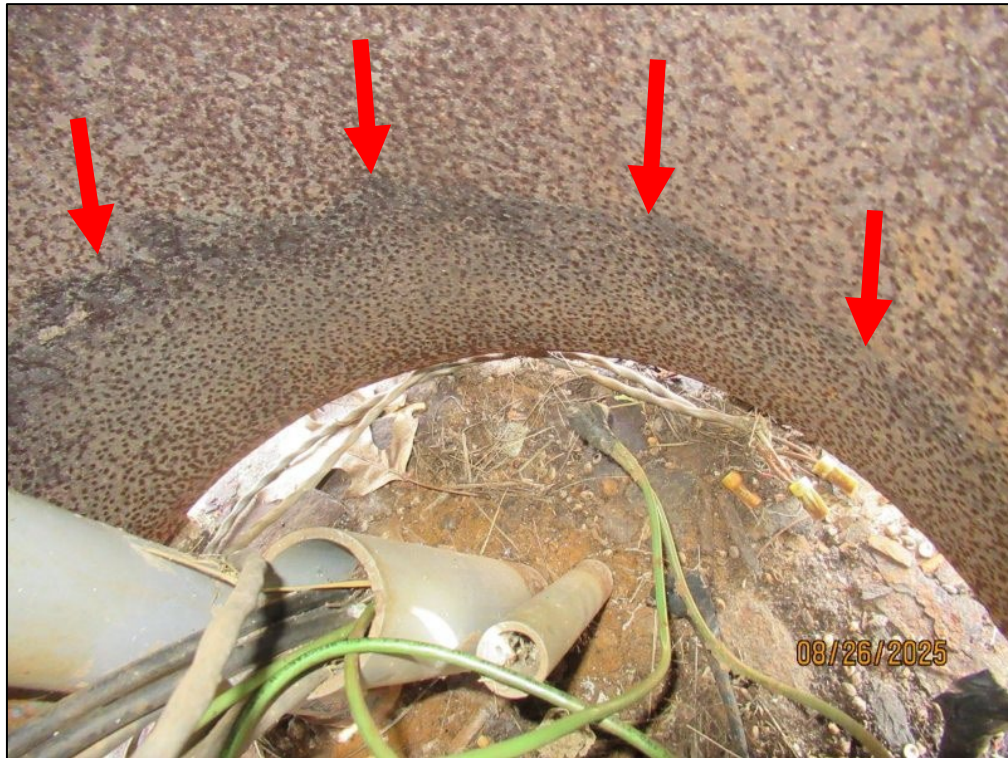


Non-Destructive Weld Examinations Magnetic Particle Testing (Left) and Ultrasonic Testing (Right)

2. There is excessive rust and corrosion present at all of the poles. There are aggressive rust pock marks present in the weathering steel finish throughout the poles. All of the poles also have scaling pieces of steel laying underneath the base plates.

The original base section pole shaft wall thicknesses for the poles ranged from 0.25" to 0.29" based on ultrasound readings. However, the condition of poles S3 and W4 (school side of the field) are the most severe. Both poles have significant interior corrosion of the shafts at the base of the poles. Ultrasound readings of the original pole shaft near the base plates show material losses range from 10% to 50% of the original shaft wall thicknesses which means the poles are 'thinning'.

We believe there has also been some material section loss (thinning) of the pole base plates due to the corrosion and scaling of material below the base plate within the original base plate grout. Pole S3 appears to have lost approximately 1/8" of its original base plate thickness or approximately 8%.



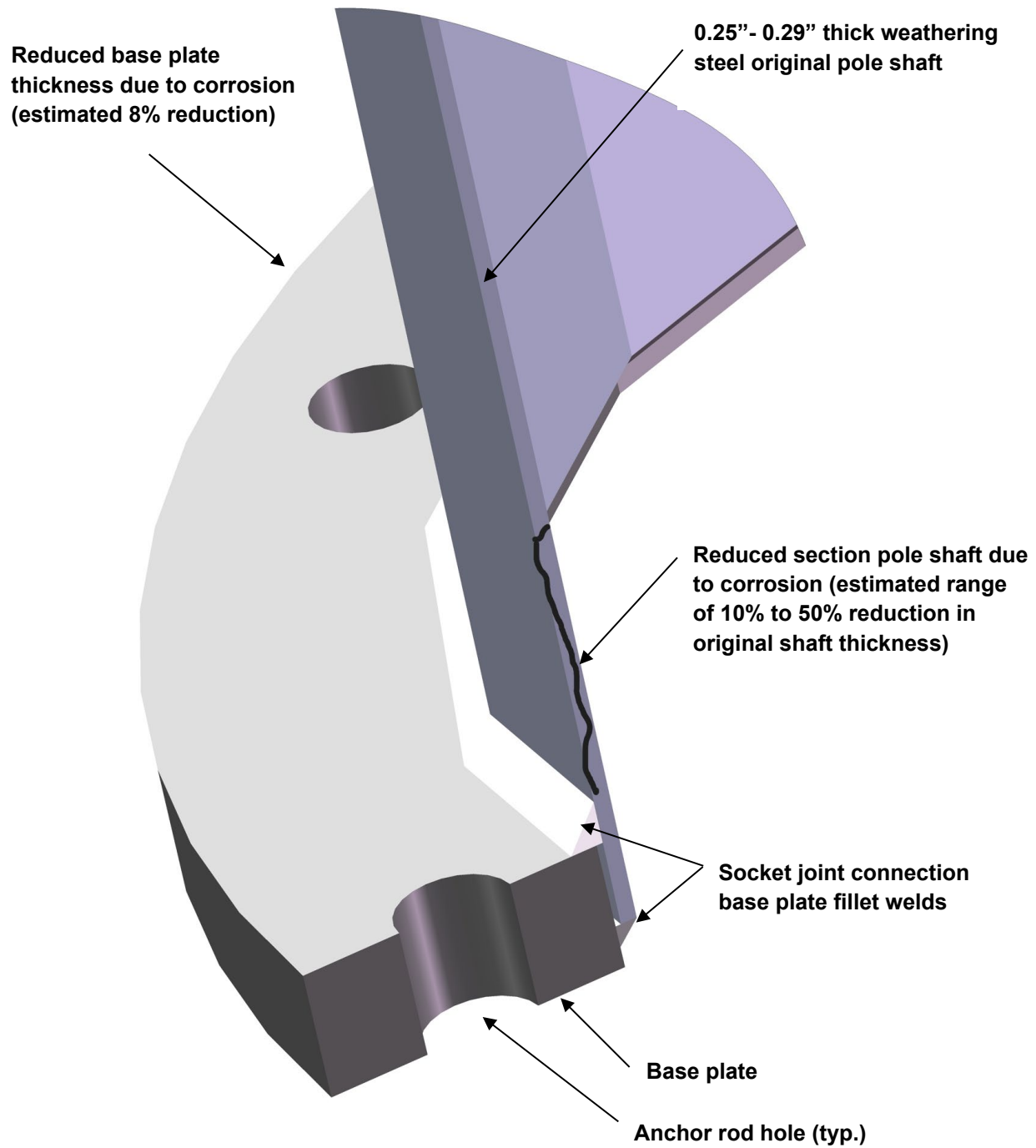
Pole S3 Aggressive Interior Corrosion (Top) and Scaling Pole Base/Shaft Material at Base



Deterioration of Pole S3 Base Plate and Scaling Pole Material Under the Base Plate



Deterioration of Pole W4 and Scaling Pole Material



Poles S3 & W4 Base Plate & Pole Shaft Cross Section Showing Damaged Areas Due to Corrosion

3. Based on the ReliaPole inspection report, the pole base plates were originally grouted between the base plates and the foundation tops. It is believed that the grout was removed approximately 15 years ago after that inspection. Due to the retention of water and moisture, the anchors and anchor rod hardware are heavily rusting and have lost material section similar to the pole shafts.

The condition of the anchors and anchor hardware of poles S3 and W4 (school side of the field) are again the most severe. The anchor rods at poles S3 and W4 have lost the majority of their threads below the base plates and have material section loss resulting in reduced diameters of upwards of 25% of the original diameter. This situation is compounded due to the fact that the base plate to foundation gap slightly exceeds twice the anchor rod diameter. Industry standard is to limit this gap to twice the anchor rod diameter to minimize bending in the anchor rods.



Pole W4 Anchor Rod Threads Missing and Reduction in Diameter from 1 1/2" to Approximately 1 1/8"

4. It was noted that none of the poles had nut locking devices installed. Pole S3 (school side) has one (1) anchor rod with nuts both above and below the base plate that are not in full contact with the base plate. In addition, numerous anchor rod leveling nuts below the base plates are losing material due to excessive corrosion.



Pole S3 Anchor Rod Nuts Not in Contact With Base Plate

5. The climbing safety cable systems on all of the poles have numerous, significant maintenance and safety-related issues. Rust was found on the safety cable hardware at all of the poles. The safety cables are not properly tensioned and the head units of the cables are not properly attached to the tops of the poles per today's industry standard.

Comments/Recommendations:

1. In 2009, the United States Consumer Product Safety Commission (CPSC) issued a product recall on sports lighting poles nationwide. While the recall was primarily directed at one pole manufacturer, the CPSC did recommend that all stadium light poles be routinely inspected. In response to this in 2010, Carroll County proactively decided to inspect the sports lighting structures at all of the county's high school football stadiums. As a result of that inspection and subsequent report, the county implemented the recommended remediations at this site. In my professional opinion, those actions by the county in 2010 resulted in an extension of the useful life of these poles. However, it is my understanding that the recommendations in the report for reoccurring inspections of the poles were not acted on due to the retirement of key personnel.
2. The author of this letter performed the last inspection of the poles for the county in 2010. At that time, the poles were in very poor condition. The base plate grout, lack of drainage, and debris inside the poles were all contributing to the excessive rust and material loss observed at the bases of the structures. The county did remove the grout and debris from inside the poles after that inspection in 2010.
3. In suitable environments, weathering steel forms an adherent protective rust patina that inhibits further corrosion. However, weathering steel that is not in a suitable environment such as prolonged exposure to moisture or salt air will corrode at a rapid rate. Weathering steel poles that are not carefully monitored, not inspected regularly, and do not have careful attention to base drainage details have not shown longevity in sports lighting applications.
4. *The accelerated corrosion and material loss at the bases of the poles in both the pole shaft and anchor rods are significant structural issues due to the severity of the material loss where loads and stresses are the most critical.* Poles S3 and W4 have experienced significant reduction in their structural load-carrying capacity. We are certain that this reduction in capacity would make the poles overstressed to both their original design and also to the load requirements of the ASCE design standard for these structures 72-21, *Design of Steel Lighting System Support Pole Structures*. In addition, these conditions will continue to deteriorate in time.

We believe that poles S3 and W4 (school side of stadium) pose both a safety and liability issue for the school due to the difficulty estimating the reduced capacity in their present condition, proximity to school buildings, and future unknown weather events. For safety reasons and as a precautionary measure, we recommend that these poles be removed from service immediately and prior to the football season. While

poles N1 and E2 are in better condition than poles S3 and W4, based on their age and condition, these poles should also be removed from service.

5. We recommend the school does not allow the use of the safety climb systems to access the poles due to their age, condition, and deficiencies. The systems should be tagged out and removed from service.

Please note that our services for this project were condition assessment only and did not include a structural evaluation of the poles based on the existing light loading. We also did not perform electrical or lighting system inspections.

Thank you for the opportunity to provide this service for the county. I can be reached at the number above with questions regarding this report.

Regards,



Brian R. Reese, PE, CWI
President
State of Maryland Professional Engineer #38043
AWS Certified Weld Inspector CWI #11010831
Reese Tower Services, Inc. d.b.a Stadium & Facility Evaluation (SAFE)
Maryland State Board for Professional Engineers PE Firm Corporation #48312



Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, license No. 38043, expiration date 12/10/2025.

This inspection report is a snapshot in time and limited to the day(s) of inspection noted. SAFE performs services consistent with the level of care and skill normally performed by similar firms in the profession at the time of the services and in the same geographic area under similar budgetary constraints. SAFE is not liable for future unforeseen defects, indications, or other issues due to changed conditions, weather, fatigue, corrosion, structural modifications, or other. No warranties are provided or implied.

Liberty High School

Legend

 5855 Bartholow Rd

 Poles



5855 Bartholow Rd

Lions Den Dr

N1

E2

W4

S3



Ground - General

Photo #1 (Liberty HS (1).JPG)



Photo #2 (Liberty HS (2).JPG)



Photo #3 (Liberty HS (3).JPG)



Photo #4 (Liberty HS (4).JPG)



Photo #5 (Liberty HS (5).JPG)



Photo #6 (Liberty HS (6).JPG)



Photo #7 (Liberty HS (7).JPG)



Photo #8 (Liberty HS (8).JPG)



Photo #9 (Liberty HS (9).JPG)



Photo #10 (Liberty HS (10).JPG)



Photo #11 (Liberty HS (11).JPG)



Photo #12 (Liberty HS (12).JPG)



Photo #13 (Liberty HS (13).JPG)



Photo #14 (Liberty HS (81).JPG)



Photo #15 (Liberty HS (111).JPG)

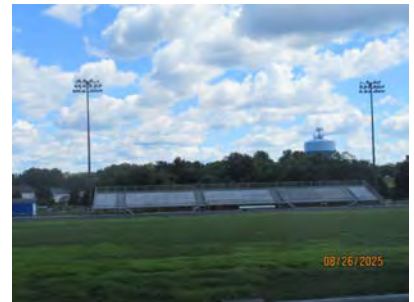


Photo #16 (Liberty HS (217).JPG)



Photo #17 (Liberty HS (218).JPG)



Photo #18 (Liberty HS (219).JPG)





Photo #19 (Liberty HS (220)).JPG



Photo #20 (Liberty HS (223)).JPG



Aerial Drone - Overall

Photo #1 (Liberty Aerial Overall
(1).JPG)

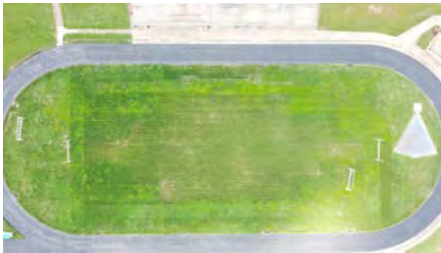


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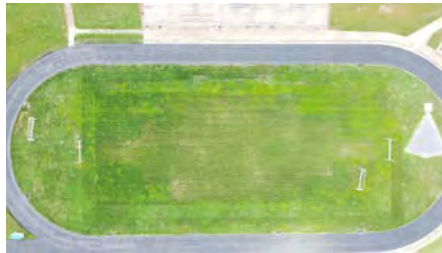


Photo #3 (Liberty Aerial Overall
(3).JPG)



Photo #4 (Liberty Aerial Overall
(4).JPG)



Photo #5 (Liberty Aerial Overall
(5).JPG)



Photo #6 (Liberty Aerial Overall
(6).JPG)



Photo #7 (Liberty Aerial Overall
(7).JPG)



Photo #8 (Liberty Aerial Overall
(8).JPG)



Photo #9 (Liberty Aerial Overall
(9).JPG)





Photo #10 (Liberty Aerial Overall
(10).JPG)



Ground - N1

Photo #1 (Liberty HS (113).JPG)



Photo #2 (Liberty HS (224).JPG)



Photo #3 (Liberty HS (225).JPG)



Photo #4 (Liberty HS (226).JPG)



Photo #5 (Liberty HS (227).JPG)



Photo #6 (Liberty HS (228).JPG)

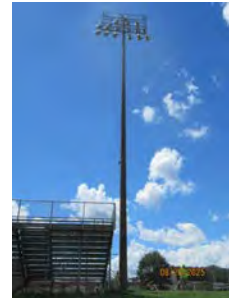


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Photo #8 (Liberty HS (230).JPG)



Photo #9 (Liberty HS (231).JPG)



Photo #10 (Liberty HS (232)).JPG



Photo #11 (Liberty HS (233)).JPG



Photo #12 (Liberty HS (234)).JPG



Photo #13 (Liberty HS (235)).JPG



Photo #14 (Liberty HS (236)).JPG



Photo #15 (Liberty HS (237)).JPG



Photo #16 (Liberty HS (238)).JPG



Photo #17 (Liberty HS (239)).JPG

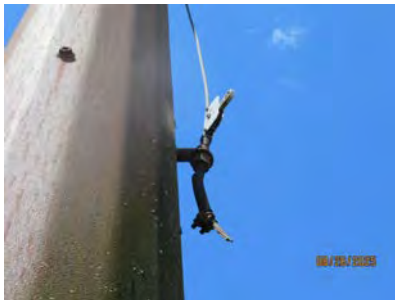


Photo #18 (Liberty HS (240)).JPG



Photo #19 (Liberty HS (241).JPG)



Photo #20 (Liberty HS (242).JPG)



Photo #21 (Liberty HS (243).JPG)



Photo #22 (Liberty HS (244).JPG)



Photo #23 (Liberty HS (245).JPG)



Photo #24 (Liberty HS (246).JPG)



Photo #25 (Liberty HS (247).JPG)



Photo #26 (Liberty HS (248).JPG)



Photo #27 (Liberty HS (249).JPG)



Photo #28 (Liberty HS (250).JPG)



Photo #29 (Liberty HS (251).JPG)



Photo #30 (Liberty HS (252).JPG)



Photo #31 (Liberty HS (253).JPG)



Photo #32 (Liberty HS (254).JPG)



Photo #33 (Liberty HS (255).JPG)



Photo #34 (Liberty HS (256).JPG)



Photo #35 (Liberty HS (257).JPG)



Photo #36 (Liberty HS (258).JPG)



Photo #37 (Liberty HS (259).JPG)



Photo #38 (Liberty HS (260).JPG)



Photo #39 (Liberty HS (261).JPG)



Photo #40 (Liberty HS (262).JPG)



Photo #41 (Liberty HS (263).JPG)



Photo #42 (Liberty HS (264).JPG)



Photo #43 (Liberty HS (265).JPG)



Photo #44 (Liberty HS (266).JPG)



Photo #45 (Liberty HS (267).JPG)



Photo #46 (Liberty HS (268).JPG)



Photo #47 (Liberty HS (269).JPG)



Photo #48 (Liberty HS (270).JPG)



Photo #49 (Liberty HS (271).JPG)



Photo #50 (Liberty HS (272).JPG)



Photo #51 (Liberty HS (273).JPG)



Photo #52 (Liberty HS (274).JPG)



Photo #53 (Liberty HS (275).JPG)



Photo #54 (Liberty HS (276).JPG)



Photo #55 (Liberty HS (277).JPG)



Photo #56 (Liberty HS (278).JPG)



Photo #57 (Liberty HS (279).JPG)



Photo #58 (Liberty HS (280).JPG)



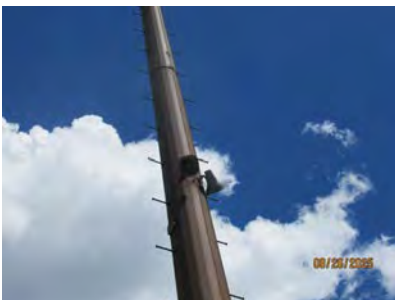
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Photo #60 (Liberty HS (282).JPG)



Photo #61 (Liberty HS (283).JPG)



Aerial Drone - N1

Photo #1 (Liberty Aerial N1 (1).JPG)



Photo #2 (Liberty Aerial N1 (2).JPG)



Photo #3 (Liberty Aerial N1 (3).JPG)



Photo #4 (Liberty Aerial N1 (4).JPG)



Photo #5 (Liberty Aerial N1 (5).JPG)



Photo #6 (Liberty Aerial N1 (6).JPG)



Photo #7 (Liberty Aerial N1 (7).JPG)



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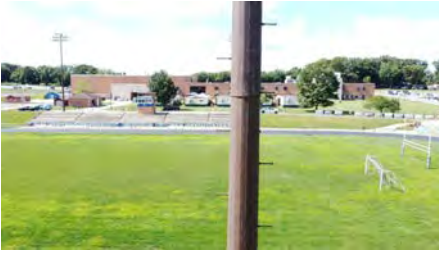


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Photo #13 (Liberty Aerial N1
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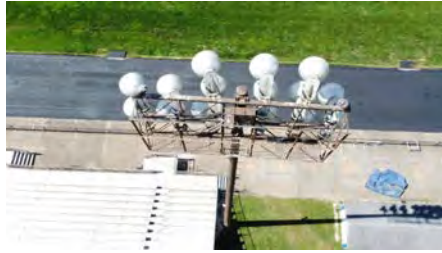


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Photo #65 (Liberty Aerial N1
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Photo #66 (Liberty Aerial N1
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Photo #67 (Liberty Aerial N1
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Photo #68 (Liberty Aerial N1
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Photo #69 (Liberty Aerial N1
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Photo #70 (Liberty Aerial N1
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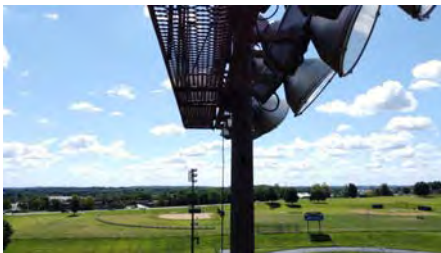


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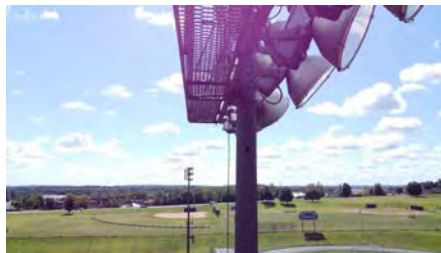


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Photo #73 (Liberty Aerial N1
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Photo #74 (Liberty Aerial N1
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Photo #75 (Liberty Aerial N1
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Photo #76 (Liberty Aerial N1
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Photo #77 (Liberty Aerial N1
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Photo #78 (Liberty Aerial N1
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Photo #79 (Liberty Aerial N1
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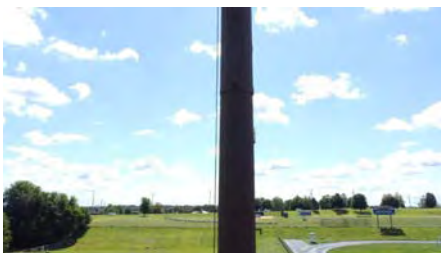


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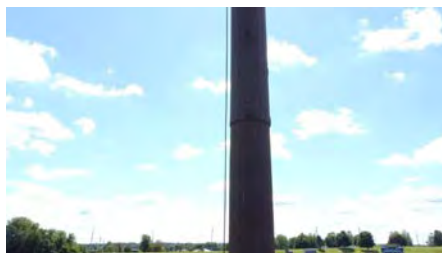


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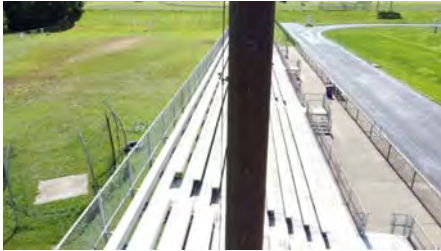


Photo #83 (Liberty Aerial N1
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Photo #84 (Liberty Aerial N1
(84).JPG)



Photo #85 (Liberty Aerial N1
(85).JPG)



Ground - E2

Photo #1 (Liberty HS (112).JPG)



Photo #2 (Liberty HS (284).JPG)



Photo #3 (Liberty HS (285).JPG)



Photo #4 (Liberty HS (286).JPG)



Photo #5 (Liberty HS (287).JPG)



Photo #6 (Liberty HS (288).JPG)



Photo #7 (Liberty HS (289).JPG)



Photo #8 (Liberty HS (290).JPG)

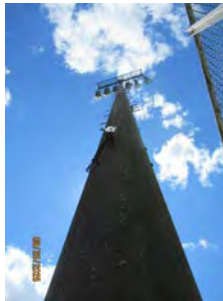


Photo #9 (Liberty HS (291).JPG)



Photo #10 (Liberty HS (292).JPG)



Photo #11 (Liberty HS (293).JPG)



Photo #12 (Liberty HS (294).JPG)



Photo #13 (Liberty HS (295).JPG)



Photo #14 (Liberty HS (296).JPG)



Photo #15 (Liberty HS (297).JPG)



Photo #16 (Liberty HS (298).JPG)



Photo #17 (Liberty HS (299).JPG)



Photo #18 (Liberty HS (300).JPG)



Photo #19 (Liberty HS (301).JPG)



Photo #20 (Liberty HS (302).JPG)



Photo #21 (Liberty HS (303).JPG)



Photo #22 (Liberty HS (304).JPG)



Photo #23 (Liberty HS (305).JPG)



Photo #24 (Liberty HS (306).JPG)



Photo #25 (Liberty HS (307).JPG)



Photo #26 (Liberty HS (308).JPG)



Photo #27 (Liberty HS (309).JPG)



Photo #28 (Liberty HS (310).JPG)



Photo #29 (Liberty HS (311).JPG)



Photo #30 (Liberty HS (312).JPG)



Photo #31 (Liberty HS (313).JPG)



Photo #32 (Liberty HS (314).JPG)



Photo #33 (Liberty HS (315).JPG)



Photo #34 (Liberty HS (316).JPG)



Photo #35 (Liberty HS (317).JPG)



Photo #36 (Liberty HS (318).JPG)



Photo #37 (Liberty HS (319).JPG)



Photo #38 (Liberty HS (320).JPG)



Photo #39 (Liberty HS (321).JPG)



Photo #40 (Liberty HS (322).JPG)



Photo #41 (Liberty HS (323).JPG)



Photo #42 (Liberty HS (324).JPG)



Photo #43 (Liberty HS (325).JPG)



Photo #44 (Liberty HS (326).JPG)



Photo #45 (Liberty HS (327).JPG)



Photo #46 (Liberty HS (328).JPG)



Photo #47 (Liberty HS (329).JPG)



Photo #48 (Liberty HS (330).JPG)



Photo #49 (Liberty HS (331).JPG)



Photo #50 (Liberty HS (332).JPG)



Aerial Drone - E2

Photo #1 (Liberty Aerial E2 (1).JPG)



Photo #2 (Liberty Aerial E2 (2).JPG)



Photo #3 (Liberty Aerial E2 (3).JPG)



Photo #4 (Liberty Aerial E2 (4).JPG)



Photo #5 (Liberty Aerial E2 (5).JPG)

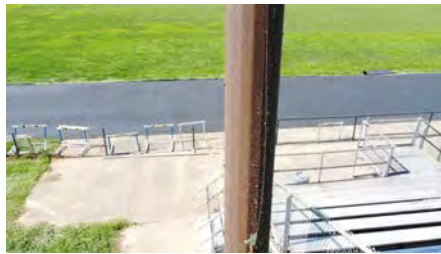


Photo #6 (Liberty Aerial E2 (6).JPG)



Photo #7 (Liberty Aerial E2 (7).JPG)



Photo #8 (Liberty Aerial E2 (8).JPG)



Photo #9 (Liberty Aerial E2 (9).JPG)



Photo #10 (Liberty Aerial E2
(10).JPG)



Photo #11 (Liberty Aerial E2 (11).JPG)



Photo #12 (Liberty Aerial E2
(12).JPG)



Photo #13 (Liberty Aerial E2
(13).JPG)



Photo #14 (Liberty Aerial E2
(14).JPG)



Photo #15 (Liberty Aerial E2
(15).JPG)



Photo #16 (Liberty Aerial E2
(16).JPG)



Photo #17 (Liberty Aerial E2
(17).JPG)



Photo #18 (Liberty Aerial E2
(18).JPG)



Photo #19 (Liberty Aerial E2
(19).JPG)



Photo #20 (Liberty Aerial E2
(20).JPG)



Photo #21 (Liberty Aerial E2
(21).JPG)



Photo #22 (Liberty Aerial E2
(22).JPG)



Photo #23 (Liberty Aerial E2
(23).JPG)



Photo #24 (Liberty Aerial E2
(24).JPG)



Photo #25 (Liberty Aerial E2
(25).JPG)



Photo #26 (Liberty Aerial E2
(26).JPG)



Photo #27 (Liberty Aerial E2
(27).JPG)



Photo #28 (Liberty Aerial E2
(28).JPG)



Photo #29 (Liberty Aerial E2
(29).JPG)



Photo #30 (Liberty Aerial E2
(30).JPG)



Photo #31 (Liberty Aerial E2
(31).JPG)



Photo #32 (Liberty Aerial E2
(32).JPG)



Photo #33 (Liberty Aerial E2
(33).JPG)



Photo #34 (Liberty Aerial E2
(34).JPG)



Photo #35 (Liberty Aerial E2
(35).JPG)



Photo #36 (Liberty Aerial E2
(36).JPG)



Photo #37 (Liberty Aerial E2
(37).JPG)



Photo #38 (Liberty Aerial E2
(38).JPG)



Photo #39 (Liberty Aerial E2
(39).JPG)



Photo #40 (Liberty Aerial E2
(40).JPG)



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(41).JPG)



Photo #42 (Liberty Aerial E2
(42).JPG)



Photo #43 (Liberty Aerial E2
(43).JPG)



Photo #44 (Liberty Aerial E2
(44).JPG)



Photo #45 (Liberty Aerial E2
(45).JPG)



Photo #46 (Liberty Aerial E2
(46).JPG)



Photo #47 (Liberty Aerial E2
(47).JPG)



Photo #48 (Liberty Aerial E2
(48).JPG)



Photo #49 (Liberty Aerial E2
(49).JPG)



Photo #50 (Liberty Aerial E2
(50).JPG)



Photo #51 (Liberty Aerial E2
(51).JPG)



Photo #52 (Liberty Aerial E2
(52).JPG)



Photo #53 (Liberty Aerial E2
(53).JPG)



Photo #54 (Liberty Aerial E2
(54).JPG)



Photo #55 (Liberty Aerial E2
(55).JPG)



Photo #56 (Liberty Aerial E2
(56).JPG)



Photo #57 (Liberty Aerial E2
(57).JPG)



Photo #58 (Liberty Aerial E2
(58).JPG)



Photo #59 (Liberty Aerial E2
(59).JPG)



Photo #60 (Liberty Aerial E2
(60).JPG)



Photo #61 (Liberty Aerial E2
(61).JPG)



Photo #62 (Liberty Aerial E2
(62).JPG)



Photo #63 (Liberty Aerial E2
(63).JPG)



Photo #64 (Liberty Aerial E2
(64).JPG)



Photo #65 (Liberty Aerial E2
(65).JPG)



Photo #66 (Liberty Aerial E2
(66).JPG)



Photo #67 (Liberty Aerial E2
(67).JPG)



Photo #68 (Liberty Aerial E2
(68).JPG)



Photo #69 (Liberty Aerial E2
(69).JPG)



Photo #70 (Liberty Aerial E2
(70).JPG)



Photo #71 (Liberty Aerial E2
(71).JPG)



Photo #72 (Liberty Aerial E2
(72).JPG)



Photo #73 (Liberty Aerial E2
(73).JPG)



Photo #74 (Liberty Aerial E2
(74).JPG)



Photo #75 (Liberty Aerial E2
(75).JPG)



Photo #76 (Liberty Aerial E2
(76).JPG)



Photo #77 (Liberty Aerial E2
(77).JPG)



Photo #78 (Liberty Aerial E2
(78).JPG)



Photo #79 (Liberty Aerial E2
(79).JPG)



Photo #80 (Liberty Aerial E2
(80).JPG)



Photo #81 (Liberty Aerial E2
(81).JPG)



Photo #82 (Liberty Aerial E2
(82).JPG)



Photo #83 (Liberty Aerial E2
(83).JPG)



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(85).JPG)



Photo #86 (Liberty Aerial E2
(86).JPG)



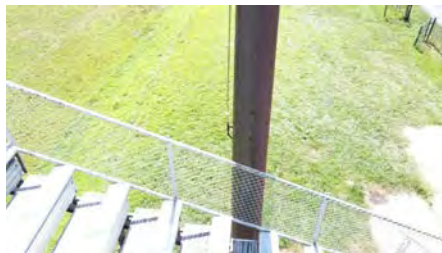
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(87).JPG)



Photo #88 (Liberty Aerial E2
(88).JPG)



Photo #89 (Liberty Aerial E2
(89).JPG)



Ground - S3

Photo #1 (Liberty HS (114).JPG)



Photo #2 (Liberty HS (115).JPG)



Photo #3 (Liberty HS (116).JPG)



Photo #4 (Liberty HS (117).JPG)



Photo #5 (Liberty HS (118).JPG)



Photo #6 (Liberty HS (119).JPG)



Photo #7 (Liberty HS (120).JPG)



Photo #8 (Liberty HS (121).JPG)



Photo #9 (Liberty HS (122).JPG)



Photo #10 (Liberty HS (123).JPG)



Photo #11 (Liberty HS (124).JPG)

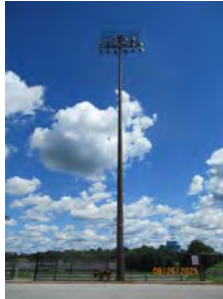


Photo #12 (Liberty HS (125).JPG)



Photo #13 (Liberty HS (126).JPG)



Photo #14 (Liberty HS (127).JPG)



Photo #15 (Liberty HS (128).JPG)



Photo #16 (Liberty HS (129).JPG)

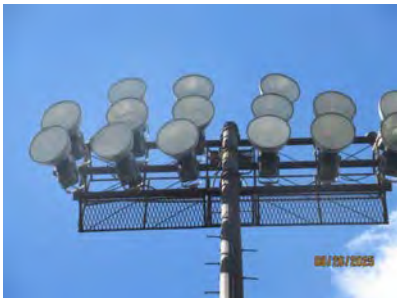


Photo #17 (Liberty HS (130).JPG)



Photo #18 (Liberty HS (131).JPG)



Photo #19 (Liberty HS (132).JPG)



Photo #20 (Liberty HS (133).JPG)



Photo #21 (Liberty HS (134).JPG)



Photo #22 (Liberty HS (135).JPG)



Photo #23 (Liberty HS (136).JPG)



Photo #24 (Liberty HS (137).JPG)



Photo #25 (Liberty HS (138).JPG)



Photo #26 (Liberty HS (139).JPG)



Photo #27 (Liberty HS (140).JPG)



Photo #28 (Liberty HS (141).JPG)



Photo #29 (Liberty HS (142).JPG)



Photo #30 (Liberty HS (143).JPG)



Photo #31 (Liberty HS (144).JPG)



Photo #32 (Liberty HS (145).JPG)



Photo #33 (Liberty HS (146).JPG)



Photo #34 (Liberty HS (147).JPG)



Photo #35 (Liberty HS (148).JPG)



Photo #36 (Liberty HS (149).JPG)



Photo #37 (Liberty HS (150)).JPG



Photo #38 (Liberty HS (151)).JPG



Photo #39 (Liberty HS (152)).JPG

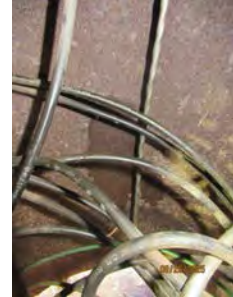


Photo #40 (Liberty HS (153)).JPG



Photo #41 (Liberty HS (154)).JPG



Photo #42 (Liberty HS (155)).JPG



Photo #43 (Liberty HS (156)).JPG



Photo #44 (Liberty HS (157)).JPG



Photo #45 (Liberty HS (158)).JPG



Photo #46 (Liberty HS (159).JPG)



Photo #47 (Liberty HS (160).JPG)



Photo #48 (Liberty HS (161).JPG)



Photo #49 (Liberty HS (162).JPG)



Photo #50 (Liberty HS (163).JPG)



Photo #51 (Liberty HS (164).JPG)



Photo #52 (Liberty HS (165).JPG)



Photo #53 (Liberty HS (166).JPG)



Photo #54 (Liberty HS (167).JPG)



Photo #55 (Liberty HS (168).JPG)



Photo #56 (Liberty HS (169).JPG)



Photo #57 (Liberty HS (170).JPG)



Photo #58 (Liberty HS (171).JPG)



Photo #59 (Liberty HS (172).JPG)



Photo #60 (Liberty HS (173).JPG)



Photo #61 (Liberty HS (174).JPG)



Photo #62 (Liberty HS (175).JPG)



Photo #63 (Liberty HS (176).JPG)



Photo #64 (Liberty HS (177).JPG)



Photo #65 (Liberty HS (178).JPG)



Photo #66 (Liberty HS (179).JPG)



Photo #67 (Liberty HS (180).JPG)



Photo #68 (Liberty HS (181).JPG)



Photo #69 (Liberty HS (182).JPG)



Photo #70 (Liberty HS (183).JPG)



Photo #71 (Liberty HS (184).JPG)



Photo #72 (Liberty HS (185).JPG)



Photo #73 (Liberty HS (186)).JPG



Photo #74 (Liberty HS (187)).JPG



Photo #75 (Liberty HS (188)).JPG



Photo #76 (Liberty HS (189)).JPG



Photo #77 (Liberty HS (190)).JPG



Photo #78 (Liberty HS (191)).JPG



Photo #79 (Liberty HS (192)).JPG



Photo #80 (Liberty HS (193)).JPG



Photo #81 (Liberty HS (194)).JPG

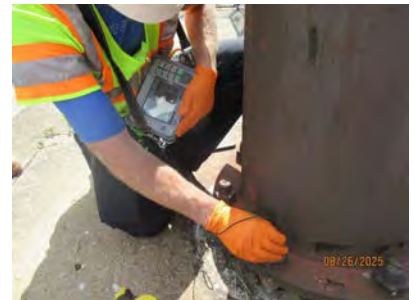


Photo #82 (Liberty HS (195).JPG)



Photo #83 (Liberty HS (196).JPG)



Photo #84 (Liberty HS (197).JPG)



Photo #85 (Liberty HS (198).JPG)



Photo #86 (Liberty HS (199).JPG)

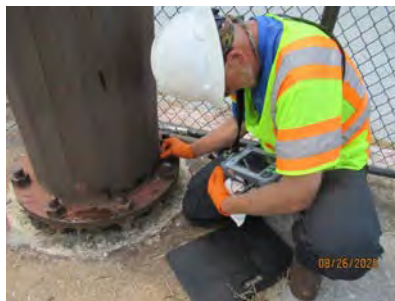


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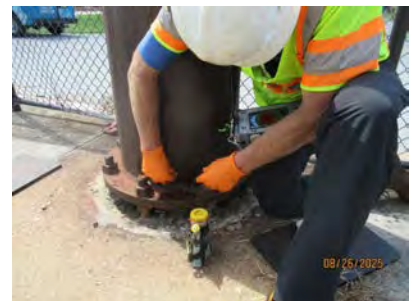


Photo #88 (Liberty HS (201).JPG)



Photo #89 (Liberty HS (202).JPG)



Photo #90 (Liberty HS (203).JPG)



Photo #91 (Liberty HS (204).JPG)



Photo #92 (Liberty HS (205).JPG)



Photo #93 (Liberty HS (206).JPG)



Photo #94 (Liberty HS (207).JPG)



Photo #95 (Liberty HS (208).JPG)



Photo #96 (Liberty HS (209).JPG)



Photo #97 (Liberty HS (210).JPG)



Photo #98 (Liberty HS (211).JPG)



Photo #99 (Liberty HS (212).JPG)



Photo #100 (Liberty HS (213)).JPG



Photo #101 (Liberty HS (214)).JPG



Photo #102 (Liberty HS (215)).JPG



Photo #103 (Liberty HS (216)).JPG



Photo #104 (Liberty HS (222)).JPG



Aerial Drone - S3

Photo #1 (Liberty Aerial S3 (1).JPG)



Photo #2 (Liberty Aerial S3 (2).JPG)



Photo #3 (Liberty Aerial S3 (3).JPG)



Photo #4 (Liberty Aerial S3 (4).JPG)

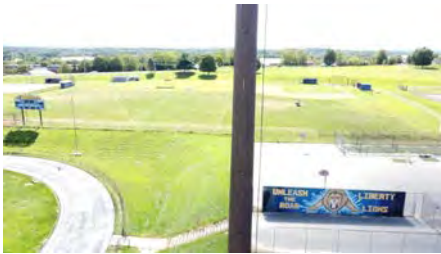


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Photo #6 (Liberty Aerial S3 (6).JPG)

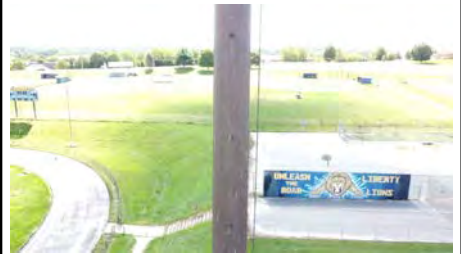


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Photo #8 (Liberty Aerial S3 (8).JPG)



Photo #9 (Liberty Aerial S3 (9).JPG)

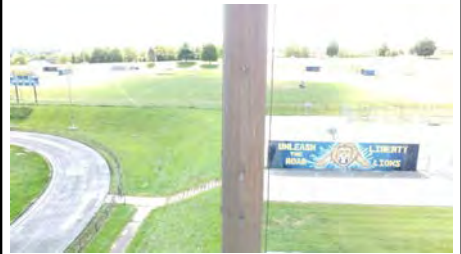


Photo #10 (Liberty Aerial S3
(10).JPG)



Photo #11 (Liberty Aerial S3 (11).JPG)



Photo #12 (Liberty Aerial S3
(12).JPG)

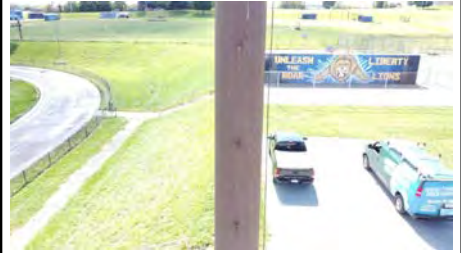


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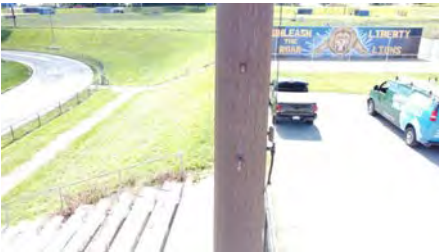


Photo #14 (Liberty Aerial S3
(14).JPG)



Photo #15 (Liberty Aerial S3
(15).JPG)



Photo #16 (Liberty Aerial S3
(16).JPG)

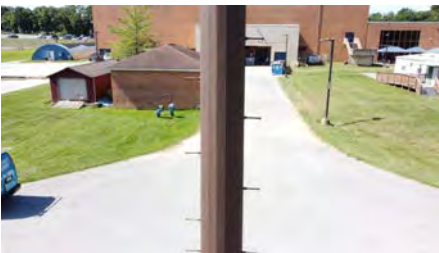


Photo #17 (Liberty Aerial S3
(17).JPG)



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(18).JPG)



Photo #19 (Liberty Aerial S3
(19).JPG)



Photo #20 (Liberty Aerial S3
(20).JPG)



Photo #21 (Liberty Aerial S3
(21).JPG)



Photo #22 (Liberty Aerial S3
(22).JPG)



Photo #23 (Liberty Aerial S3
(23).JPG)



Photo #24 (Liberty Aerial S3
(24).JPG)



Photo #25 (Liberty Aerial S3
(25).JPG)



Photo #26 (Liberty Aerial S3
(26).JPG)



Photo #27 (Liberty Aerial S3
(27).JPG)



Photo #28 (Liberty Aerial S3
(28).JPG)



Photo #29 (Liberty Aerial S3
(29).JPG)



Photo #30 (Liberty Aerial S3
(30).JPG)



Photo #31 (Liberty Aerial S3
(31).JPG)



Photo #32 (Liberty Aerial S3
(32).JPG)



Photo #33 (Liberty Aerial S3
(33).JPG)



Photo #34 (Liberty Aerial S3
(34).JPG)



Photo #35 (Liberty Aerial S3
(35).JPG)



Photo #36 (Liberty Aerial S3
(36).JPG)



Photo #37 (Liberty Aerial S3
(37).JPG)



Photo #38 (Liberty Aerial S3
(38).JPG)



Photo #39 (Liberty Aerial S3
(39).JPG)



Photo #40 (Liberty Aerial S3
(40).JPG)



Photo #41 (Liberty Aerial S3
(41).JPG)



Photo #42 (Liberty Aerial S3
(42).JPG)



Photo #43 (Liberty Aerial S3
(43).JPG)



Photo #44 (Liberty Aerial S3
(44).JPG)



Photo #45 (Liberty Aerial S3
(45).JPG)



Photo #46 (Liberty Aerial S3
(46).JPG)



Photo #47 (Liberty Aerial S3
(47).JPG)



Photo #48 (Liberty Aerial S3
(48).JPG)



Photo #49 (Liberty Aerial S3
(49).JPG)



Photo #50 (Liberty Aerial S3
(50).JPG)



Photo #51 (Liberty Aerial S3
(51).JPG)



Photo #52 (Liberty Aerial S3
(52).JPG)



Photo #53 (Liberty Aerial S3
(53).JPG)



Photo #54 (Liberty Aerial S3
(54).JPG)



Photo #55 (Liberty Aerial S3
(55).JPG)



Photo #56 (Liberty Aerial S3
(56).JPG)



Photo #57 (Liberty Aerial S3
(57).JPG)



Photo #58 (Liberty Aerial S3
(58).JPG)



Photo #59 (Liberty Aerial S3
(59).JPG)



Photo #60 (Liberty Aerial S3
(60).JPG)



Photo #61 (Liberty Aerial S3
(61).JPG)



Photo #62 (Liberty Aerial S3
(62).JPG)



Photo #63 (Liberty Aerial S3
(63).JPG)



Photo #64 (Liberty Aerial S3
(64).JPG)



Photo #65 (Liberty Aerial S3
(65).JPG)



Photo #66 (Liberty Aerial S3
(66).JPG)



Photo #67 (Liberty Aerial S3
(67).JPG)



Photo #68 (Liberty Aerial S3
(68).JPG)



Photo #69 (Liberty Aerial S3
(69).JPG)



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Photo #71 (Liberty Aerial S3
(71).JPG)



Photo #72 (Liberty Aerial S3
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Photo #73 (Liberty Aerial S3
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Photo #74 (Liberty Aerial S3
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(76).JPG)



Photo #77 (Liberty Aerial S3
(77).JPG)



Photo #78 (Liberty Aerial S3
(78).JPG)



Photo #79 (Liberty Aerial S3
(79).JPG)



Photo #80 (Liberty Aerial S3
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Photo #81 (Liberty Aerial S3
(81).JPG)



Photo #82 (Liberty Aerial S3
(82).JPG)



Photo #83 (Liberty Aerial S3
(83).JPG)



Photo #84 (Liberty Aerial S3
(84).JPG)



Photo #85 (Liberty Aerial S3
(85).JPG)



Photo #86 (Liberty Aerial S3
(86).JPG)



Photo #87 (Liberty Aerial S3
(87).JPG)



Photo #88 (Liberty Aerial S3
(88).JPG)



Ground - W4

Photo #1 (Liberty HS (14).JPG)



Photo #2 (Liberty HS (15).JPG)



Photo #3 (Liberty HS (16).JPG)

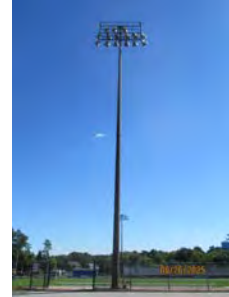


Photo #4 (Liberty HS (17).JPG)



Photo #5 (Liberty HS (18).JPG)



Photo #6 (Liberty HS (19).JPG)



Photo #7 (Liberty HS (20).JPG)



Photo #8 (Liberty HS (21).JPG)



Photo #9 (Liberty HS (22).JPG)



Photo #10 (Liberty HS (23)).JPG



Photo #11 (Liberty HS (24)).JPG



Photo #12 (Liberty HS (25)).JPG



Photo #13 (Liberty HS (26)).JPG



Photo #14 (Liberty HS (27)).JPG



Photo #15 (Liberty HS (28)).JPG



Photo #16 (Liberty HS (29)).JPG

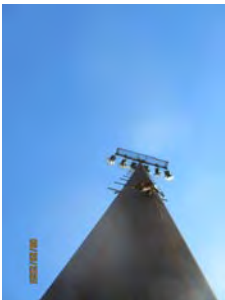


Photo #17 (Liberty HS (30)).JPG



Photo #18 (Liberty HS (31)).JPG



Photo #19 (Liberty HS (32).JPG)



Photo #20 (Liberty HS (33).JPG)



Photo #21 (Liberty HS (34).JPG)



Photo #22 (Liberty HS (35).JPG)



Photo #23 (Liberty HS (36).JPG)



Photo #24 (Liberty HS (37).JPG)



Photo #25 (Liberty HS (38).JPG)



Photo #26 (Liberty HS (39).JPG)



Photo #27 (Liberty HS (40).JPG)



Photo #28 (Liberty HS (41)).JPG



Photo #29 (Liberty HS (42)).JPG



Photo #30 (Liberty HS (43)).JPG



Photo #31 (Liberty HS (44)).JPG



Photo #32 (Liberty HS (45)).JPG

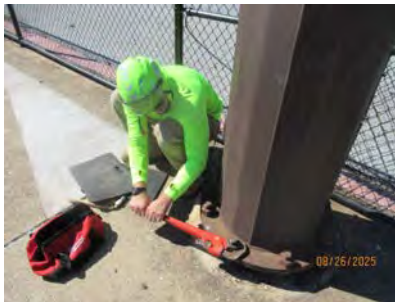


Photo #33 (Liberty HS (46)).JPG



Photo #34 (Liberty HS (47)).JPG



Photo #35 (Liberty HS (48)).JPG



Photo #36 (Liberty HS (49)).JPG



Photo #37 (Liberty HS (50)).JPG



Photo #38 (Liberty HS (51)).JPG



Photo #39 (Liberty HS (52)).JPG



Photo #40 (Liberty HS (53)).JPG



Photo #41 (Liberty HS (54)).JPG



Photo #42 (Liberty HS (55)).JPG



Photo #43 (Liberty HS (56)).JPG



Photo #44 (Liberty HS (57)).JPG



Photo #45 (Liberty HS (58)).JPG



Photo #46 (Liberty HS (59).JPG)



Photo #47 (Liberty HS (60).JPG)



Photo #48 (Liberty HS (61).JPG)



Photo #49 (Liberty HS (62).JPG)



Photo #50 (Liberty HS (63).JPG)



Photo #51 (Liberty HS (64).JPG)



Photo #52 (Liberty HS (65).JPG)



Photo #53 (Liberty HS (66).JPG)



Photo #54 (Liberty HS (67).JPG)



Photo #55 (Liberty HS (68)).JPG



Photo #56 (Liberty HS (69)).JPG



Photo #57 (Liberty HS (70)).JPG



Photo #58 (Liberty HS (71)).JPG



Photo #59 (Liberty HS (72)).JPG



Photo #60 (Liberty HS (73)).JPG



Photo #61 (Liberty HS (74)).JPG



Photo #62 (Liberty HS (75)).JPG



Photo #63 (Liberty HS (76)).JPG



Photo #64 (Liberty HS (77)).JPG



Photo #65 (Liberty HS (78)).JPG



Photo #66 (Liberty HS (79)).JPG



Photo #67 (Liberty HS (80)).JPG



Photo #68 (Liberty HS (82)).JPG



Photo #69 (Liberty HS (83)).JPG



Photo #70 (Liberty HS (84)).JPG



Photo #71 (Liberty HS (85)).JPG



Photo #72 (Liberty HS (86)).JPG

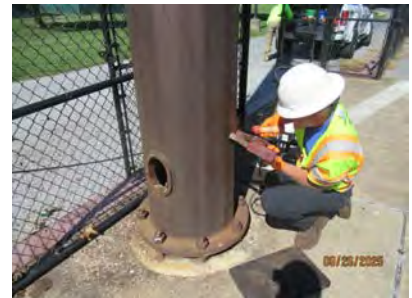


Photo #73 (Liberty HS (87).JPG)



Photo #74 (Liberty HS (88).JPG)



Photo #75 (Liberty HS (89).JPG)



Photo #76 (Liberty HS (90).JPG)



Photo #77 (Liberty HS (91).JPG)



Photo #78 (Liberty HS (92).JPG)



Photo #79 (Liberty HS (93).JPG)

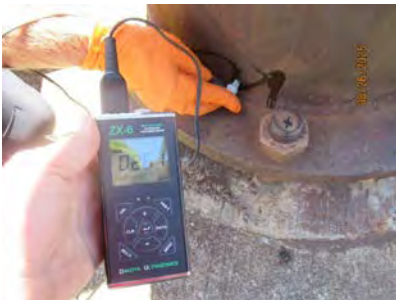


Photo #80 (Liberty HS (94).JPG)



Photo #81 (Liberty HS (95).JPG)



Photo #82 (Liberty HS (96).JPG)



Photo #83 (Liberty HS (97).JPG)



Photo #84 (Liberty HS (98).JPG)



Photo #85 (Liberty HS (99).JPG)



Photo #86 (Liberty HS (100).JPG)



Photo #87 (Liberty HS (101).JPG)



Photo #88 (Liberty HS (102).JPG)



Photo #89 (Liberty HS (103).JPG)



Photo #90 (Liberty HS (104).JPG)



Photo #91 (Liberty HS (105).JPG)



Photo #92 (Liberty HS (106).JPG)



Photo #93 (Liberty HS (107).JPG)



Photo #94 (Liberty HS (108).JPG)



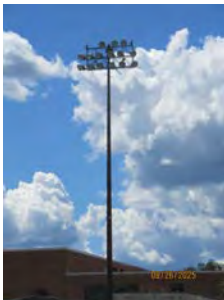
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Photo #96 (Liberty HS (110).JPG)



Photo #97 (Liberty HS (221).JPG)



Aerial Drone - W4

Photo #1 (Liberty Aerial W4 (1).JPG)



Photo #2 (Liberty Aerial W4 (2).JPG)



Photo #3 (Liberty Aerial W4 (3).JPG)

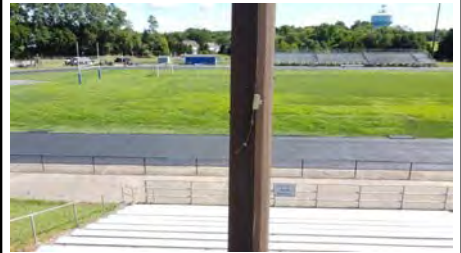


Photo #4 (Liberty Aerial W4 (4).JPG)



Photo #5 (Liberty Aerial W4 (5).JPG)



Photo #6 (Liberty Aerial W4 (6).JPG)



Photo #7 (Liberty Aerial W4 (7).JPG)



Photo #8 (Liberty Aerial W4 (8).JPG)



Photo #9 (Liberty Aerial W4 (9).JPG)



Photo #10 (Liberty Aerial W4
(10).JPG)



Photo #11 (Liberty Aerial W4
(11).JPG)



Photo #12 (Liberty Aerial W4
(12).JPG)



Photo #13 (Liberty Aerial W4
(13).JPG)



Photo #14 (Liberty Aerial W4
(14).JPG)



Photo #15 (Liberty Aerial W4
(15).JPG)



Photo #16 (Liberty Aerial W4
(16).JPG)



Photo #17 (Liberty Aerial W4
(17).JPG)



Photo #18 (Liberty Aerial W4
(18).JPG)



Photo #19 (Liberty Aerial W4
(19).JPG)



Photo #20 (Liberty Aerial W4
(20).JPG)



Photo #21 (Liberty Aerial W4
(21).JPG)



Photo #22 (Liberty Aerial W4
(22).JPG)



Photo #23 (Liberty Aerial W4
(23).JPG)



Photo #24 (Liberty Aerial W4
(24).JPG)



Photo #25 (Liberty Aerial W4
(25).JPG)



Photo #26 (Liberty Aerial W4
(26).JPG)



Photo #27 (Liberty Aerial W4
(27).JPG)

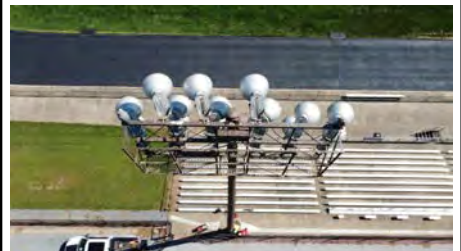


Photo #28 (Liberty Aerial W4
(28).JPG)



Photo #29 (Liberty Aerial W4
(29).JPG)



Photo #30 (Liberty Aerial W4
(30).JPG)



Photo #31 (Liberty Aerial W4
(31).JPG)



Photo #32 (Liberty Aerial W4
(32).JPG)



Photo #33 (Liberty Aerial W4
(33).JPG)



Photo #34 (Liberty Aerial W4
(34).JPG)



Photo #35 (Liberty Aerial W4
(35).JPG)



Photo #36 (Liberty Aerial W4
(36).JPG)



Photo #37 (Liberty Aerial W4
(37).JPG)



Photo #38 (Liberty Aerial W4
(38).JPG)



Photo #39 (Liberty Aerial W4
(39).JPG)



Photo #40 (Liberty Aerial W4
(40).JPG)



Photo #41 (Liberty Aerial W4
(41).JPG)



Photo #42 (Liberty Aerial W4
(42).JPG)



Photo #43 (Liberty Aerial W4
(43).JPG)



Photo #44 (Liberty Aerial W4
(44).JPG)



Photo #45 (Liberty Aerial W4
(45).JPG)



Photo #46 (Liberty Aerial W4
(46).JPG)



Photo #47 (Liberty Aerial W4
(47).JPG)



Photo #48 (Liberty Aerial W4
(48).JPG)



Photo #49 (Liberty Aerial W4
(49).JPG)



Photo #50 (Liberty Aerial W4
(50).JPG)



Photo #51 (Liberty Aerial W4
(51).JPG)



Photo #52 (Liberty Aerial W4
(52).JPG)



Photo #53 (Liberty Aerial W4
(53).JPG)

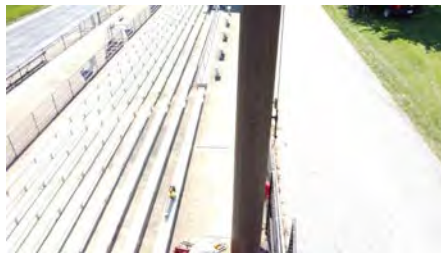


Photo #54 (Liberty Aerial W4
(54).JPG)



Photo #55 (Liberty Aerial W4
(55).JPG)



Photo #56 (Liberty Aerial W4
(56).JPG)



Photo #57 (Liberty Aerial W4
(57).JPG)



Photo #58 (Liberty Aerial W4
(58).JPG)



Photo #59 (Liberty Aerial W4
(59).JPG)



Photo #60 (Liberty Aerial W4
(60).JPG)



Photo #61 (Liberty Aerial W4
(61).JPG)

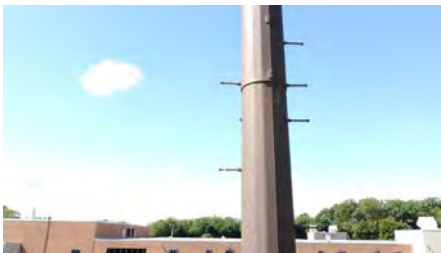


Photo #62 (Liberty Aerial W4
(62).JPG)

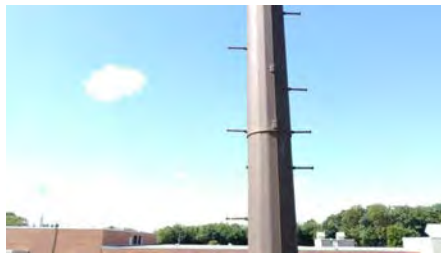


Photo #63 (Liberty Aerial W4
(63).JPG)



Photo #64 (Liberty Aerial W4
(64).JPG)



Photo #65 (Liberty Aerial W4
(65).JPG)



Photo #66 (Liberty Aerial W4
(66).JPG)



Photo #67 (Liberty Aerial W4
(67).JPG)



Photo #68 (Liberty Aerial W4
(68).JPG)



Photo #69 (Liberty Aerial W4
(69).JPG)



Photo #70 (Liberty Aerial W4
(70).JPG)



Photo #71 (Liberty Aerial W4
(71).JPG)



Photo #72 (Liberty Aerial W4
(72).JPG)



Photo #73 (Liberty Aerial W4
(73).JPG)



Photo #74 (Liberty Aerial W4
(74).JPG)



Photo #75 (Liberty Aerial W4
(75).JPG)



Photo #76 (Liberty Aerial W4
(76).JPG)



Photo #77 (Liberty Aerial W4
(77).JPG)



Photo #78 (Liberty Aerial W4
(78).JPG)



Photo #79 (Liberty Aerial W4
(79).JPG)



Photo #80 (Liberty Aerial W4
(80).JPG)



Photo #81 (Liberty Aerial W4
(81).JPG)



Photo #82 (Liberty Aerial W4
(82).JPG)



Photo #83 (Liberty Aerial W4
(83).JPG)



Photo #84 (Liberty Aerial W4
(84).JPG)



Photo #85 (Liberty Aerial W4
(85).JPG)



Photo #86 (Liberty Aerial W4
(86).JPG)



Photo #87 (Liberty Aerial W4
(87).JPG)



Photo #88 (Liberty Aerial W4
(88).JPG)



Photo #89 (Liberty Aerial W4
(89).JPG)



Photo #90 (Liberty Aerial W4
(90).JPG)

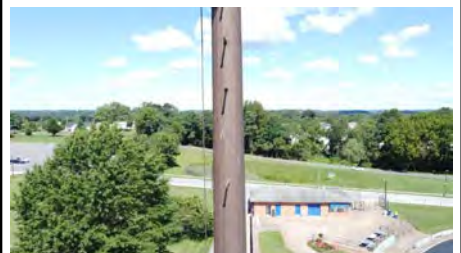


Photo #91 (Liberty Aerial W4
(91).JPG)



Photo #92 (Liberty Aerial W4
(92).JPG)



Photo #93 (Liberty Aerial W4
(93).JPG)



Photo #94 (Liberty Aerial W4
(94).JPG)



Photo #95 (Liberty Aerial W4
(95).JPG)



Photo #96 (Liberty Aerial W4
(96).JPG)



Photo #97 (Liberty Aerial W4
(97).JPG)



Photo #98 (Liberty Aerial W4
(98).JPG)

