

MAINTENANCE DRAWINGS

APPENDIX A-5

SITE NAME:

WMPN RAYMOND

FCC ASR NUMBER:

1046007

SITE ADDRESS:

4700 OAKLEY PALESTINE RD.
RAYMOND, MS 39154
(HINDS COUNTY)
N 32°11'30.42", W 90°24'22.71"

MAINTENANCE PROVISIONS

THE MAINTENANCE REPAIRS DEPICTED ON THESE DRAWINGS ARE BASED ON THE MAINTENANCE AND CONDITION ASSESSMENT REPORT BY TOWER ENGINEERING PROFESSIONALS (TEP), JOB#: 250673.814214 DATED MARCH 16, 2023 (REV 0).

CONTRACTOR SHALL FIELD VERIFY ALL: DIMENSIONS, QUANTITIES, PART NUMBERS AND COAX/ANTENNA PLACEMENTS PRIOR TO: BIDDING, ORDERING MATERIALS, AND CONSTRUCTION.

REFERENCED DOCUMENTS

DOCUMENT	REMARKS	DATE
MAINTENANCE AND CONDITION ASSESSMENT REPORT	TEP JOB #: 250673.814214	03-16-23
TOWER MAPPING	TEP JOB #: 250673.814215	03-27-23

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PROJECT TEAM

PROJECT CONTACT:

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ENGINEERING FIRM PROJECT MANAGER:

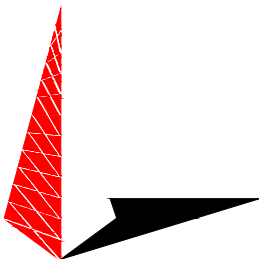
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PLANS PREPARED FOR:



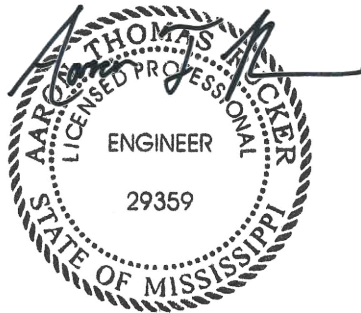
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SEAL:



April 14, 2023

O	04-14-23	MAINTENANCE DRAWINGS
REV	DATE	ISSUED FOR:

DRAWN BY: EAJ CHECKED BY: LFC

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

REVISION:

0

TEP#:250673.814218

MI CHECKLIST		
REQUIRED	REPORT ITEM	BRIEF DESCRIPTION
PRE-CONSTRUCTION		
X	MI CHECKLIST DRAWING	THIS CHECKLIST SERVES AS A GUIDELINE FOR THE REQUIRED CONSTRUCTION DOCUMENTS AND INSPECTIONS FOR THIS MODIFICATION.
NA	EOR APPROVED SHOP DRAWINGS	ONCE THE PRE-MODIFICATION MAPPING IS COMPLETE AND PRIOR TO FABRICATION, THE CONTRACTOR SHALL PROVIDE DETAILED ASSEMBLY DRAWINGS AND/OR SHOP DRAWINGS. THESE ARE TO INCLUDE, BUT ARE NOT LIMITED TO, A VISUAL LAYOUT OF NEW REINFORCEMENT, EXISTING REINFORCEMENT CONFIGURATION, PORTHOLES, MOUNTS, STEP PEGS, SAFETY CLIMBS AND ANY OTHER MISCELLANEOUS ITEMS WHICH MAY AFFECT SUCCESSFUL INSTALLATION OF MODIFICATIONS ON THE TOWER. THESE DRAWINGS SHALL BE SUBMITTED TO THE EOR FOR APPROVAL. SHOP DRAWING SUBMISSION SHALL INCLUDE THE EOR RFI FORM DETAILING ANY CHANGES FROM THE ORIGINAL DESIGN.
NA	FABRICATION INSPECTION	A LETTER FROM THE FABRICATOR, STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH INDUSTRY STANDARDS AND THE CONTRACT DOCUMENTS, SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
NA	FABRICATOR CERTIFIED WELD INSPECTION	A CWI SHALL INSPECT ALL WELDING PERFORMED ON STRUCTURAL MEMBERS DURING FABRICATION. A WRITTEN REPORT SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
X	MATERIAL TEST REPORTS (MTR)	MATERIAL TEST REPORTS SHALL BE PROVIDED FOR MATERIAL USED. MTRS SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
NA	FABRICATOR NDE INSPECTION REPORT	CRITICAL SHOP WELDS THAT REQUIRE TESTING ARE NOTED ON THESE CONTRACT DRAWINGS. A CERTIFIED NDT INSPECTOR SHALL PERFORM NON-DESTRUCTIVE EXAMINATION AND A REPORT SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
NA	NDE OF MONOPOLE BASE PLATE	A NDE OF THE POLE TO BASE PLATE CONNECTION IS REQUIRED AND A WRITTEN REPORT SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
X	PACKING SLIPS	PACKAGING/SHIPPING LIST FOR ALL MATERIAL THAT WAS USED DURING CONSTRUCTION OF THE MODIFICATION.
ADDITIONAL TESTING AND INSPECTIONS		
NA		
CONSTRUCTION		
NA	FOUNDATION INSPECTIONS	A VISUAL OBSERVATION OF THE EXCAVATION AND REBAR SHALL BE PERFORMED BEFORE PLACING THE CONCRETE. A VISUAL OBSERVATION OF THE REBAR SHALL BE PERFORMED BEFORE PLACING THE EPOXY. A SEALED WRITTEN REPORT SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
NA	CONCRETE COMP. STRENGTH AND SLUMP TESTS	THE CONCRETE MIX DESIGN, SLUMP TEST, AND COMPRESSIVE STRENGTH TESTS SHALL BE PROVIDED AS PART OF THE FOUNDATION REPORT.
NA	EARTHWORK	FOUNDATION SUB-GRADES SHALL BE INSPECTED AND APPROVED BY AN APPROVED FOUNDATION INSPECTOR AND RESULTS INCLUDED AS PART OF THE FOUNDATION REPORT.
NA	MICROPILE/ROCK ANCHOR	MICROPILES/ROCK ANCHORS SHALL BE INSPECTED BY THE FOUNDATION INSPECTION VENDOR AND SHALL BE INCLUDED AS PART OF THE FOUNDATION INSPECTION REPORT, ADDITIONAL TESTING AND/OR INSPECTION REQUIREMENTS ARE NOTED IN THESE CONTRACT DOCUMENTS.
NA	POST-INSTALLED ANCHOR ROD VERIFICATION	POST-INSTALLED ANCHOR ROD VERIFICATION SHALL BE PERFORMED AND A REPORT SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
NA	BASE PLATE GROUT VERIFICATION	THE GENERAL CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE MI INSPECTOR THAT CERTIFIES THAT THE GROUT WAS REMOVED AND/OR INSTALLED IN ACCORDANCE WITH CONTRACTOR DOCUMENTS FOR INCLUSION IN THE MI REPORT.
NA	FIELD CERTIFIED WELD INSPECTION	AN AWS CERTIFIED WELD INSPECTOR SHALL INSPECT AND TEST FIELD WELDS, IN ACCORDANCE WITH AWS D1.1/D1.1M: "STRUCTURAL WELDING CODE – STEEL". A REPORT SHALL BE PROVIDED. NDE OF FIELD WELDS SHALL BE PERFORMED AS REQUIRED PER CONTRACT DOCUMENTS. THE NDE REPORT SHALL BE INCLUDED IN THE CWI REPORT.
X	ON-SITE COLD GALVANIZING VERIFICATION	THE GENERAL CONTRACTOR SHALL PROVIDE WRITTEN AND PHOTOGRAPHIC DOCUMENTATION TO THE MI INSPECTOR VERIFYING THAT ANY ON-SITE COLD GALVANIZING WAS APPLIED PER MANUFACTURER SPECIFICATIONS AND APPLICABLE STANDARDS.
X	TENSION TWIST AND PLUMB	THE GENERAL CONTRACTOR SHALL PROVIDE A REPORT IN ACCORDANCE WITH APPLICABLE STANDARDS DOCUMENTING TENSION TWIST AND PLUMB.
X	GC AS-BUILT DOCUMENTS	THE GENERAL CONTRACTOR SHALL SUBMIT A LEGIBLE COPY OF THE ORIGINAL DESIGN DRAWINGS EITHER STATING "INSTALLED AS DESIGNED" OR NOTING ANY CHANGES THAT WERE REQUIRED AND APPROVED BY THE ENGINEER OF RECORD. EOR/RFI FORMS APPROVING ALL CHANGES SHALL BE SUBMITTED.
ADDITIONAL TESTING AND INSPECTIONS		
NA		
POST-CONSTRUCTION		
X	CONSTRUCTION COMPLIANCE LETTER	A LETTER FROM THE GENERAL CONTRACTOR STATING THAT THE WORKMANSHIP WAS PERFORMED IN ACCORDANCE WITH INDUSTRY STANDARDS AND THESE CONTRACT DRAWINGS, INCLUDING LISTING ADDITIONAL PARTIES TO THE MODIFICATION PROCESS.
NA	POST-INSTALLED ANCHOR ROD PULL TESTS	POST-INSTALLED ANCHOR RODS SHALL BE TESTED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND A REPORT SHALL BE PROVIDED INDICATING TESTING RESULTS.
X	PHOTOGRAPHS	PHOTOGRAPHS SHALL BE SUBMITTED TO THE MI. PHOTOS SHALL DOCUMENT ALL PHASES OF THE CONSTRUCTION. THE PHOTOS SHALL BE ORGANIZED IN A MANNER THAT EASILY IDENTIFIES THE EXACT LOCATION OF THE PHOTO.
X	BOLT HOLE INSTALLATION AND VERIFICATION REPORT	THE MI INSPECTOR SHALL VERIFY THE INSTALLATION AND TIGHTNESS 10% OF ALL NON PRE-TENSIONED BOLTS INSTALLED AS PART OF THE MODIFICATION. THE MI INSPECTOR SHALL LOOSEN THE NUT AND VERIFY THE BOLT HOLE SIZE AND CONDITION. THE MI REPORT SHALL CONTAIN THE COMPLETED BOLT INSTALLATION VERIFICATION REPORT, INCLUDING THE SUPPORTING PHOTOGRAPHS.
X	PUNCH LIST DEVELOPMENT AND CORRECTION DOCUMENTATION	FINAL PUNCHLIST INDICATING ALL NONCONFORMANCE(S) IDENTIFIED AND THE FINAL RESOLUTION AND APPROVAL.
X	MI INSPECTOR REDLINE OR RECORD DRAWING(S)	THE MI INSPECTOR SHALL OBSERVE AND REPORT ANY DISCREPANCIES BETWEEN THE CONTRACTOR'S REDLINE DRAWING AND THE ACTUAL COMPLETED INSTALLATION.
ADDITIONAL TESTING AND INSPECTIONS		
NA		

THE MI CHECKLIST SHALL BE REVIEWED PRIOR TO THE START OF CONSTRUCTION. ALL PARTIES TO THE MODIFICATION SHALL UNDERSTAND INSPECTION/DOCUMENTATION THAT IS APPLICABLE TO THE SCOPE OF WORK THEY ARE PERFORMING. ERRORS ON THE CHECKLIST SHALL BE BROUGHT TO THE ATTENTION OF THE TOWER OWNER AND EOR AS SOON AS POSSIBLE.

NOTE: X DENOTES A DOCUMENT NEEDED FOR THE PMI REPORT
NA DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE PMI REPORT

MODIFICATION INSPECTION NOTES:

GENERAL

THE MI IS AN ON-SITE VISUAL AND HANDS-ON INSPECTION OF TOWER MODIFICATIONS INCLUDING A REVIEW OF CONSTRUCTION REPORTS AND ADDITIONAL PERTINENT DOCUMENTATION PROVIDED BY THE GENERAL CONTRACTOR (GC), AS WELL AS ANY INSPECTION DOCUMENTS PROVIDED BY 3RD PARTY INSPECTORS. THE MI IS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS AS DESIGNED BY THE ENGINEER OF RECORD (EOR).

NO DOCUMENT, CODE OR POLICY CAN ANTICIPATE EVERY SITUATION THAT MAY ARISE. ACCORDINGLY, THIS CHECKLIST IS INTENDED TO SERVE AS A SOURCE OF GUIDING PRINCIPLES IN ESTABLISHING GUIDELINES FOR MODIFICATION INSPECTION.

THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF. AND THE MI INSPECTOR DOES NOT TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES. THE MI INSPECTOR SHALL INSPECT AND NOTE CONFORMANCE/NONCONFORMANCE AND PROVIDE TO THE TOWER OWNER POINT OF CONTACT FOR EVALUATION.

TO ENSURE THAT THE REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PURCHASE ORDER (PO) IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY. IF CONTACT INFORMATION IS NOT KNOWN THE GC AND/OR INSPECTOR SHALL CONTACT THE TOWER OWNER POINT OF CONTACT.

SERVICE LEVEL COMMITMENT

THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING AN MI REPORT:

- THE GC SHALL PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED.
- THE GC AND MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR RE-TENSIONING OPERATIONS.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY MINOR DEFICIENCIES CORRECTED DURING THE INITIAL MI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

REQUIRED PHOTOS

BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:

- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION / ERECTION AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - FOUNDATION MODIFICATIONS
 - WELD PREPARATION
 - BOLT INSTALLATION
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR
- POST CONSTRUCTION PHOTOGRAPHS
 - FINAL INFIELD CONDITION

PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

PLANS PREPARED FOR:



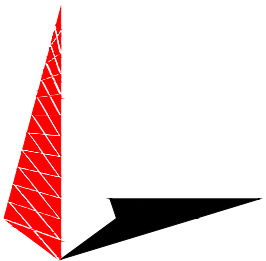
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PROJECT INFORMATION:

WMPN RAYMOND
FCC ASR #: 1046007

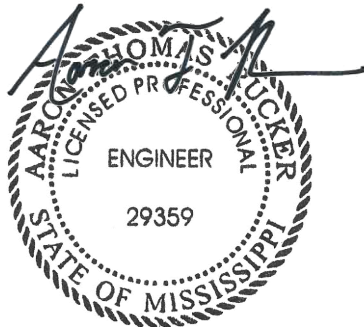
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REV	DATE	ISSUED FOR:

DRAWN BY: EAJ CHECKED BY: LFC

SHEET TITLE:

MI CHECKLIST
AND NOTES

SHEET NUMBER: N-1	REVISION: 0 TEP#:250673.814218
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GENERAL NOTES:

1. ALL REFERENCES TO THE OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED MISSISSIPPI AUTHORITY FOR EDUCATIONAL TELEVISION OR ITS DESIGNATED REPRESENTATIVE.

2. ALL WORK PRESENTED ON THESE DESIGN DRAWINGS MUST BE COMPLETED BY THE GENERAL CONTRACTOR (GC) UNLESS NOTED OTHERWISE. THE GC MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE GC IS ATTESTING THAT HE HAS SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE OF MISSISSIPPI.

3. WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2018 EDITION.

4. UNLESS SHOWN OR NOTED OTHERWISE ON THE DESIGN DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.

5. ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.

6. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE DESIGN DRAWINGS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER OF RECORD (EOR) PRIOR TO INSTALLATION. THE GC SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.

7. THE GC SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE GC IS RESPONSIBLE FOR ENSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.

8. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE GC SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE RESIDENT LEASING AGENT FOR APPROVAL.

9. ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE GC. THE GC WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.

10. IF APPLICABLE, ALL CONCRETE WORK SHALL COMPLY TO LOCAL CODES AND THE ACI 318-14 "BUILDING REQUIREMENTS FOR STRUCTURAL CONCRETE".

11. 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE GC MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER.

12. ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.

13. ALL DIMENSIONS SHALL BE VERIFIED WITH THE DESIGN DRAWINGS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE EOR IMMEDIATELY IF ANY DISCREPANCIES ARE DISCOVERED. THE OWNER SHALL HAVE A SET OF APPROVED DESIGN DRAWINGS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

14. THE CLIMBING FACILITIES, SAFETY CLIMB AND ALL PARTS THEREOF SHALL NOT BE IMPEDED, MODIFIED, OR ALTERED WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE OWNER AND EOR. ALL ALTERATIONS TO A SAFETY CLIMB'S ORIGINAL MANUFACTURER'S CONFIGURATION MUST BE DESIGNED BY THE EOR. IF THE GC FINDS THAT THE CLIMBING FACILITIES ARE IMPEDED, EITHER DURING BIDDING, DURING PRE-FABRICATION MAPPING, OR WHILE ON-SITE, THE GC SHALL CONTACT THE OWNER AND EOR TO DETERMINE A METHOD OF RESOLUTION.

15. ANY WORK PERFORMED WITHOUT A PREFABRICATION MAPPING IS DONE AT THE RISK OF THE GC AND/OR FABRICATOR.

16. IF DURING THE COURSE OF A FOUNDATION MODIFICATION, THE GC ENCOUNTERS EXISTING CONDUIT LOCATED WITHIN THE CONFINES OF THE EXISTING OR PROPOSED FOUNDATION CONCRETE, AND THIS CONDUIT IS NOT IN A LOCATION THAT IS SPECIFIED WITHIN THESE DESIGN DRAWINGS, THE GC SHALL IMMEDIATELY CONTACT THE EOR FOR GUIDANCE BEFORE PROCEEDING WITH THE INSTALLATION OF THE PROPOSED FOUNDATION MODIFICATIONS. IF CONDUIT IS TO BE INSTALLED THROUGH THE EXISTING FOUNDATION OR PROPOSED FOUNDATION MODIFICATION AND HASN'T BEEN SPECIFIED WITHIN THESE DESIGN DRAWINGS THEN THE GC SHALL IMMEDIATELY CONTACT THE EOR FOR GUIDANCE PRIOR TO PROCEEDING WITH THE INSTALLATION OF THE PROPOSED FOUNDATION MODIFICATIONS.

ATTENTION

ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GC RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION), FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH THE ANSI/TIA-322 (LATEST EDITION).

STRUCTURAL STEEL NOTES:

1. THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC STEEL CONSTRUCTION MANUAL, LOAD AND RESISTANCE FACTOR DESIGN (LRFD), 15TH EDITION.

2. UNLESS OTHERWISE NOTED, ALL STRUCTURAL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS: STRUCTURAL STEEL:

- ANGLE:

ASTM A572-50

- PIPE/TUBE (ROUND):

ASTM A500 GR.C (Fy = 46 KSI)

- PIPE/TUBE (SQUARE):

ASTM A500 GR.C (Fy = 50 KSI)

- PLATE:

ASTM A572-50

- SOLID ROD:

ASTM A572-50

- W-SHAPES:

ASTM A992

A. ALL BOLTS, ASTM A325 TYPE I GALVANIZED HIGH STRENGTH BOLTS.

B. ALL U-BOLTS, ASTM A193 GRADE B7

C. ALL NUTS, ASTM A563 GRADE DH OR A194 GRADE 2H CARBON AND ALLOY STEEL NUTS.

D. ALL WASHERS, ASTM F436 HARDENED STEEL WASHERS.

3. ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE STEEL FABRICATOR IN ACCORDANCE WITH AISC STEEL CONSTRUCTION MANUAL, LRFD, 15TH EDITION.

4. HOLES SHALL NOT BE FLAME CUT THROUGH STEEL UNLESS APPROVED BY THE ENGINEER.

5. HOT-DIP GALVANIZE ALL ITEMS UNLESS OTHERWISE NOTED, AFTER FABRICATION WHERE PRACTICABLE. GALVANIZING: ASTM A123, ASTM, A153/A153M OR ASTM A653/A653M, G90, AS APPLICABLE. ADDITIONALLY, ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.

6. REPAIR DAMAGED SURFACES WITH GALVANIZING REPAIR METHOD AND PAINT CONFORMING TO ASTM A780 OR BY APPLICATION OF STICK OR THICK PASTED MATERIAL SPECIFICALLY DESIGNED FOR REPAIR OF GALVANIZING. CLEAN AREAS TO BE REPAIRED AND REMOVE SLAG FROM WELDS. HEAT SURFACES TO WHICH STICK OR PASTE MATERIAL IS APPLIED, WITH A TORCH TO A TEMPERATURE SUFFICIENT TO MELT THE METALLICS IN STICK OR PASTED; SPREAD MOLTEN MATERIAL UNIFORMLY OVER SURFACES TO BE COATED AND WIPE OFF EXCESS MATERIAL. AFTER REPAIR, STEEL SHALL BE REPAINTED TO MATCH EXISTING FINISH (IF APPLICABLE).

7. A NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL PROPOSED AND/OR REPLACED BOLTS.

8. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH TO EXCLUDE THE THREADS FROM THE SHEAR PLANE.

9. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.

10. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.

WELDING NOTES:

1. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AWS D1.1/D1.1M: 2015 "STRUCTURAL WELDING CODE-STEEL".

2. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.

3. CONTRACTOR SHALL RETAIN AN AWS CERTIFIED WELD INSPECTOR TO PERFORM VISUAL INSPECTIONS ON FIELD WELDS. A LETTER AND REPORT SHALL BE ISSUED TO THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LETTER AND REPORT TO TOWER ENGINEERING PROFESSIONALS.

4. GRIND THE SURFACE ADJACENT TO THE WELD FOR A DISTANCE OF 2" MINIMUM ALL AROUND. GRIND THE SURFACE OF THE ROD TO BE INSTALLED FOR A DISTANCE OF 2" MINIMUM ALL AROUND THE AREA TO BE WELDED. ENSURE BOTH AREAS ARE 100% FREE OF ALL GALVANIZING. SURFACES TO BE WELDED SHALL BE FREE FROM SCALE, SLAG, RUST, MOISTURE, GREASE OR ANY OTHER FOREIGN MATERIAL THAT WOULD PREVENT PROPER WELDING.

5. DO NOT WELD IF THE TEMPERATURE OF THE STEEL IN THE VICINITY OF THE WELD AREA IS BELOW 0°F. THE MINIMUM PREHEAT AND INTERPASS TEMPERATURE REQUIREMENTS SHALL COMPLY WITH SECTION 3.5.1 AND TABLE 3.2 OF THE AWS D1.1/D1.1M:2015.

6. DO NOT WELD ON WET OR FROST-COVERED SURFACES & PROVIDE ADEQUATE PROTECTION FROM HIGH WINDS.

7. FOR ALL WELDING, USE 70 KSI LOW HYDROGEN ELECTRODES. ELECTRODES SHALL BE APPROPRIATE FOR THE WELDING POSITION REQUIRED TO MAKE THE JOINT.

8. AFTER FINAL INSPECTION, THE AREA OF THE WELDS, THE INSTALLATION AND ALL SURFACES DAMAGED BY WELDING OR GRINDING SHALL RECEIVE A COLD-GALVANIZED COATING. THIS COATING SHALL BE APPLIED BY BRUSH. THE GALVANIZING COMPOUND SHALL CONTAIN A MINIMUM OF 95% ± PURE ZINC. THE FINISHED COATING SHALL BE A MINIMUM THICKNESS OF 3 MIL.

9. FOR MONOPOLE TOWERS FULL PENETRATION WELDS IN THE VICINITY OF THE BASE OF THE TOWER ARE REQUIRED TO BE 100% NDE INSPECTED BY ULTRASONIC TESTING (UT) IN ACCORDANCE WITH AWS D1.1.

10. FOR MONOPOLE TOWERS PARTIAL PENETRATION AND FILLET WELDS IN THE VICINITY OF THE BASE OF THE TOWER ARE REQUIRED TO BE 50% NDE INSPECTED BY MAGNETIC PARTICLE (MT) IN ACCORDANCE WITH AWS D1.1.

11. PROVIDE WELDS ALL AROUND OR ADD SEAL WELDS WHERE STRUCTURAL WELDS ARE NOT SPECIFIED.

PLANS PREPARED FOR:



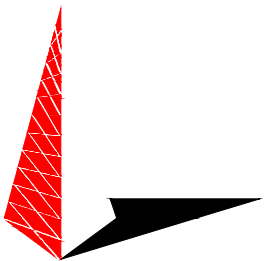
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April 14, 2023

O	04-14-23	MAINTENANCE DRAWINGS
REV	DATE	ISSUED FOR:

DRAWN BY: EAJ | CHECKED BY: LFC

SHEET TITLE:

PROJECT NOTES I

SHEET NUMBER: N-2	REVISION: 0 TEP#:250673.814218
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BOLT TIGHTENING PROCEDURE:

1. UNLESS OTHERWISE NOTED, ALL BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1 OF THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS, LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION. ALL SNUG TIGHT BOLTS SHALL BE INSTALLED WITH A NUT-LOCKING DEVICE OR MECHANISM SUCH AS, BUT NOT LIMITED TO, LOCK NUTS, LOCK WASHERS, OR PALNUTS, TO PREVENT LOOSENING.
2. WHEN SPECIFIED IN THE DRAWINGS, CONNECTION BOLTS SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8.2.1 OF THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS, LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:

8.2.1 TURN-OF-THE-NUT TIGHTENING

BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1, UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED BELOW. DURING THE TIGHTENING OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT IN A MANNER THAT WILL MINIMIZE RELAXATION OF PREVIOUSLY PRETENSIONED BOLTS.

3. PRE-TENSIONED BOLTS AS SPECIFIED ON THE DRAWINGS SHALL BE TIGHTENED IN ACCORDANCE WITH AISC – "TURN OF THE NUT" METHOD, USING THE CHART BELOW.

BOLT LENGTHS UP TO AND INCLUDING FOUR DIA.

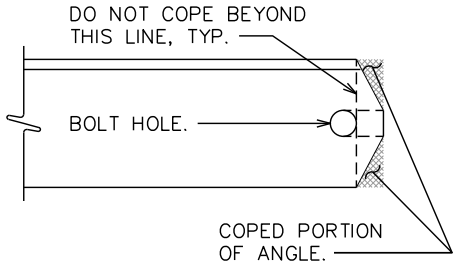
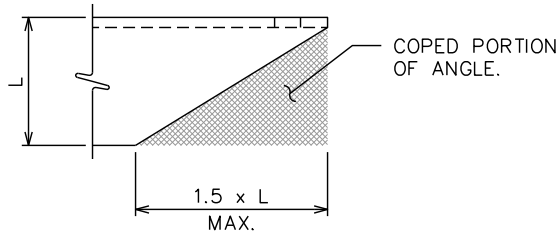
1/2"	BOLTS UP TO AND INCLUDING 2.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
5/8"	BOLTS UP TO AND INCLUDING 2.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
3/4"	BOLTS UP TO AND INCLUDING 3.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
7/8"	BOLTS UP TO AND INCLUDING 3.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1"	BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT

BOLT LENGTHS OVER FOUR DIA. BUT NOT EXCEEDING EIGHT DIA.

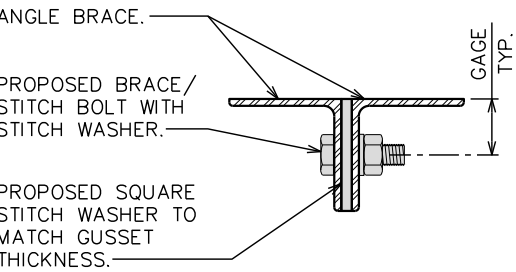
1/2"	BOLTS 2.25 TO 4.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
5/8"	BOLTS 2.75 TO 5.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
3/4"	BOLTS 3.25 TO 6.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
7/8"	BOLTS 3.75 TO 7.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1"	BOLTS 4.25 TO 8.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT

4. ALL ONE-SIDED BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

ALLOWABLE ANGLE COPE



SECTION AT CENTER AND STITCH CONNECTION

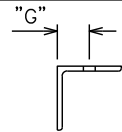


NOTE:

ALL STITCH WASHERS ARE TO BE NEW ASTM A36 MATERIAL AND BE OF EQUAL SIZE TO THE ANGLE LEG HEIGHT. THICKNESS TO MATCH EXISTING GUSSET/LEG THICKNESS.

WORKABLE GAGES

LEG	4	3 1/2	3	2 1/2	2	1 3/4
G	2	1 3/4	1 1/2	1 1/4	1	7/8



- WORKABLE GAGES GIVEN IN INCHES
- MATCH EXISTING WHEN APPLICABLE

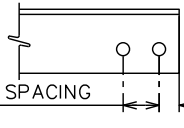
NOMINAL HOLE DIMENSIONS

BOLT DIAMETER	STANDARD HOLE	SHORT SLOT
1/2	9/16	9/16 x 1 1/16
5/8	1 1/16	1 1/16 x 7/8
3/4	1 3/16	1 3/16 x 1
7/8	1 5/16	1 5/16 x 1 1/8
1	1 1/2	1 1/2 x 1 1/16

1. DIMENSIONS GIVEN IN INCHES.
2. ALL PROPOSED HOLES SHALL BE DRILLED OR PUNCHED.

BOLT EDGE AND SPACING

BOLT DIAMETER	MIN. EDGE	SPACING
1/2	7/8	1 1/2
5/8	1 1/8	1 7/8
3/4	1 1/4	2 1/4
7/8	1 1/2	2 5/8
1	1 3/4	3

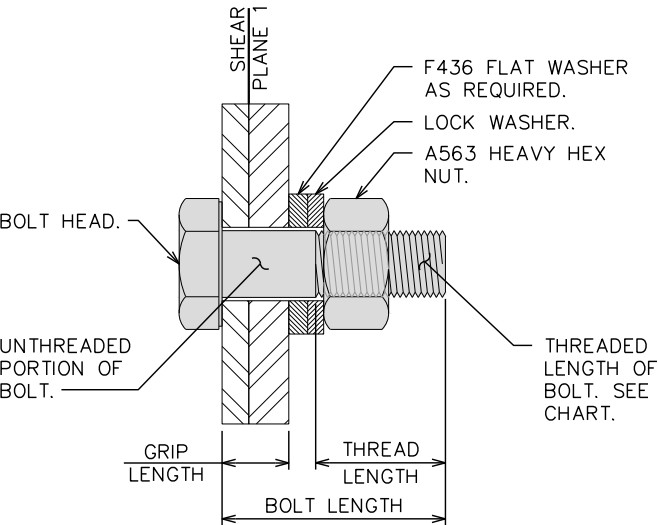


- DIMENSIONS GIVEN IN INCHES

BOLT DETAILS

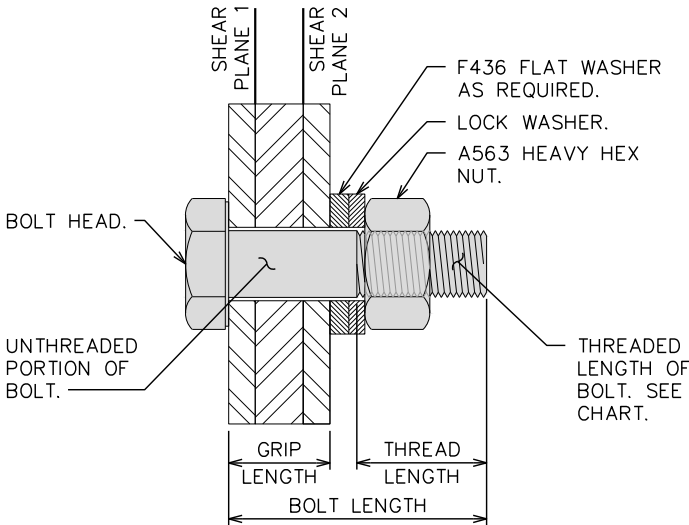
SINGLE SHEAR CONNECTIONS:

A325-X BOLT:
UNTHREADED LENGTH OF BOLT PASSES THROUGH SHEAR PLANE.



DOUBLE SHEAR CONNECTIONS:

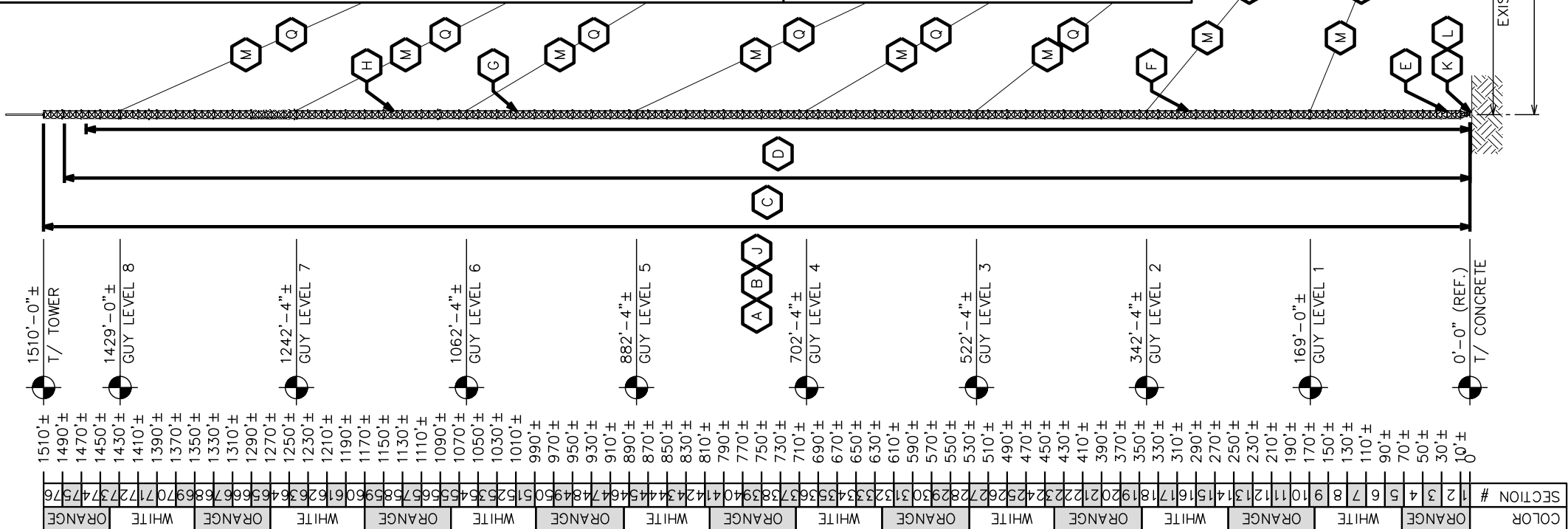
A325-X BOLT:
UNTHREADED LENGTH OF BOLT PASSES THROUGH SHEAR PLANES.



BOLT THREADS

BOLT DIAMETER	THREAD LENGTH
1/2"	1"
5/8"	1 1/4"
3/4"	1 3/8"
7/8"	1 1/2"
1"	1 3/4"
1 1/8"	2"
1 1/4"	2"

GUY ANCHOR RADII		
GUY PATH	GUY ANCHOR RADIUS	
	INNER	OUTER
"A" ANCHOR	595' (8')	1047' (-12')
"B" ANCHOR	596' (-31')	1050' (-39')
"C" ANCHOR	598' (-6')	1047' (-23')
(#') REPRESENTS RELATIVE ELEVATIONS. MAST = 0' (REF.)		



MAINTENANCE SCHEDULE			
ITEM	MAINTENANCE DESCRIPTION	ELEVATION (FT.)	SHEET
A	REMOVE ABANDONED EQUIPMENT, COAX AND RELATED HARDWARE. SEE CHART ON SHEET S-2. SEE NOTE 1.	0 - 1510	S-2
B	FURNISH AND INSTALL PROPOSED FAA F5 LIGHTING SYSTEM. COORDINATE WITH FAA AND TOWER OWNER FOR INSTALLATION.	0 - 1510	-
C	COORDINATE WITH LICENSED ELEVATOR TECHICIAN TO INSPECT AND SERVICE ELEVATOR EQUIPMENT TO ADDRESS CORROSION OBSERVED ON PULLEYS AND CABLES.	0 - 1488	-
D	REPLACE DAMAGED SAFETY CLIMB SYSTEM WITH NEW 100% STAINLESS STEEL 3/8"Ø WIRE ROPE SAFE CLIMB SYSTEM BY TUF-TUG PRODUCTS.	0 - 52 44 - 1470	S-2
E	REPLACE SKEWED U-BOLT ON WEATHER EQUIPMENT MOUNT.	26	S-2
F	REPLACE CORRODED FEEDLINE HANGERS.	299	S-2
G	RELOCATE GROUND WIRE AWAY FROM LEG FLANGE BOLT AND SECURE TO TOWER USING ALTERNATE CONNECTION.	1010.0	S-2
H	CONTACT ANTENNA MANUFACTURER TO DETERMINE WHETHER ADDITIONAL MOUNTING HARDWARE IS REQUIRED AND INSTALL PER MANUFACTURER'S SPECIFICATIONS.	1144.0	S-2
J	THOROUGHLY CLEAN ALL AREAS OF CORROSION ON TOWER STRUCTURAL MEMBERS, BOLTS, GUY HARDWARE, ELEVATOR, MOUNT HARDWARE AND GUY ANCHORS AND COAT WITH COLD GALVANIZING COMPOUND. SEE NOTES 4 AND 5.	0 - 1510	S-3
K	TIGHTEN LOOSE BOLTS AT BOTTOM OF CLIMBING LADDER. INSTALL SHIMS BETWEEN BRACKET AND LADDER AS REQUIRED.	-	S-3
L	REPAIR COMPOUND FENCE.	-	S-3
M	REPLACE CORRODED COTTER PINS ON ALL GUY HARDWARE.	0 - 1429	S-3
N	REPLACE DAMAGED GUY WIRE DAMPERS.	ANCHOR	S-3
P	PERFORM ANCHOR SHAFT INSPECTION BELOW GRADE TO TOP OF BLOCK. INSTALL PROTECTIVE COATING AND CATHODIC PROTECTION.	ANCHOR	S-3
Q	UPON COMPLETION OF MAINTENANCE TASKS, ENTIRE TOWER IS TO BE PLUMB AND TENSIONED.	ANCHOR	S-4 THRU S-6
R	VERIFY GUY ANCHOR GROUNDING IS PRESENT AND UNDAMAGED. IF MISSING OR DAMAGED, INSTALL GUY ANCHOR GROUNDING.	ANCHOR	S-7
S	MODIFICATION INSPECTION BY TEP. CONTACT TEP TO SCHEDULE: PM@TEPGROUP.NET.	-	N-1

NOTES:

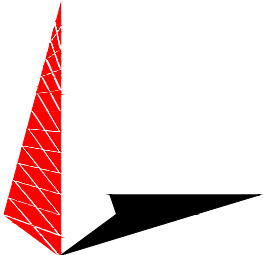
- FOR ADDITIONAL INFORMATION REGARDING EQUIPMENT TO BE REMOVED, REFER TO THE TOWER MAPPING REPORT REFERENCED ON SHEET T-1.
- PRIOR TO FABRICATION, CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND QUANTITIES GIVEN. LENGTHS AND QUANTITIES PROVIDED ARE FOR QUOTING PURPOSES ONLY AND SHALL NOT BE USED FOR FABRICATION.
- ANTENNAS AND OTHER APPURTENANCES MAY NEED TO BE TEMPORARILY REMOVED OR MOVED DURING THE INSTALLATION OF THE MODIFICATIONS SHOWN ABOVE.
- FOR LOCATIONS OF RUST AND/OR CORROSION, REFER TO THE MAINTENANCE AND CONDITION ASSESSMENT REPORT REFERENCED ON SHEET T-1.
- ALL AREAS OF CORROSION SHALL BE THOROUGHLY CLEANED AND PREPARED PER THE SPECIFICATION OF THE SSPC-SP3 SURFACE PREPARATION STANDARD (OR BETTER), PRIOR TO COATING WITH TWO BRUSH COATS OF ZRC COLD GALVANIZING COMPOUND OR APPROVED EQUIVALENT. APPLY COATING PER THE MANUFACTURER'S SPECIFICATIONS. IF ANY PIECE OF HARDWARE EXHIBITS PITTING OR SEVERE LOSS, IT SHOULD BE REPLACED WITH NEW HARDWARE TO MATCH EXISTING. PROVIDE LOCATION AND MEASUREMENTS OF ANY SECTION LOSS PRESENT ON TOWER MEMBERS TO TEP FOR REVIEW. ADDITIONAL REPAIRS MAY BE REQUIRED.



PLANS PREPARED FOR:

3825 RIDGEWOOD RD.
JACKSON, MS 39211-6497
OFFICE: (601) 432-6770

PROJECT INFORMATION:
WMPN RAYMOND
FCC ASR #: 1046007
4700 OAKLEY PALESTINE RD.
RAYMOND, MS 39154
(HINDS COUNTY)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:

April 14, 2023

O	04-14-23	MAINTENANCE DRAWINGS
REV	DATE	ISSUED FOR:

DRAWN BY: EAJ CHECKED BY: LFC

SHEET TITLE:
TOWER ELEVATION AND MAINTENANCE SCHEDULE

SHEET NUMBER:
S-1

REVISION:
0
TEP#:250673.814218

LOADING REMOVAL CHART

EQUIPMENT TYPE	COAX QTY / SIZE	ELEV. (FT.)
LIGHTING SYSTEM	(1) 1.9"Ø M.C.	0 – 1510
MOUNT AND ANTENNA	(1) ¼"Ø	44

03/06/2023 11:55

REPLACE EXISTING DAMAGED SAFETY CLIMB SYSTEMS WITH NEW 100% STAINLESS STEEL ¾"Ø WIRE ROPE CLIMB SAFE CLIMB SYSTEMS BY TUF-TUG PRODUCTS. ENSURE 100% TIE-OFF IS MAINTAINED AND CABLE IS FREE OF ALL OBSTRUCTIONS. INSTALL PER THE MANUFACTURER'S INSTRUCTIONS.

03/06/2023 11:04

STRAIGHTEN U-BOLT. CONTACT ANTENNA MANUFACTURER TO DETERMINE WHETHER ADDITIONAL MOUNTING HARDWARE IS REQUIRED.

03/06/2023 13:36

REPLACE FEED LINE HANGERS AND SECURE TO TOWER WITH APPROPRIATE CONNECTIONS AND HARDWARE.

2023/03/06 17:56

REINSTALL GROUND AT ALTERNATE LOCATION. CONTRACTOR SHALL NOT RE-USE BOLTS THAT HAVE BEEN PREVIOUSLY TORQUED. MATCH EXISTING SIZE AND GRADE.

2023/03/06 12:30

CONTACT ANTENNA MANUFACTURER TO DETERMINE WHETHER ADDITIONAL MOUNTING HARDWARE IS REQUIRED AND INSTALL PER MANUFACTURER'S SPECIFICATIONS.

PLANS PREPARED FOR:

MPB

Mississippi Public Broadcasting

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SHEET TITLE:

GENERAL MAINTENANCE DETAILS I

SHEET NUMBER:

REVISION:

S-2

0

TEP#:250673.814218

SAFETY CLIMB SYSTEMS ON LADDERS 1 AND 2 WERE FOUND TO HAVE CORROSION DAMAGE AT TOP TERMINATION ASSEMBLIES AND DAMAGE TO THE CABLES AT SEVERAL LOCATIONS.

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REPLACE EXISTING DAMAGED SAFETY CLIMB SYSTEMS WITH NEW 100% STAINLESS STEEL ¾"Ø WIRE ROPE CLIMB SAFE CLIMB SYSTEMS BY TUF-TUG PRODUCTS. ENSURE 100% TIE-OFF IS MAINTAINED AND CABLE IS FREE OF ALL OBSTRUCTIONS. INSTALL PER THE MANUFACTURER'S INSTRUCTIONS.

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2023/03/06 12:30

CONTACT ANTENNA MANUFACTURER TO DETERMINE WHETHER ADDITIONAL MOUNTING HARDWARE IS REQUIRED AND INSTALL PER MANUFACTURER'S SPECIFICATIONS.

MISSING U-BOLTS WERE OBSERVED ON ANTENNA 1 AT 26' AND ON FM AT 1363'.

03/06/2023 11:04

STRAIGHTEN U-BOLT. CONTACT ANTENNA MANUFACTURER TO DETERMINE WHETHER ADDITIONAL MOUNTING HARDWARE IS REQUIRED.

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CONTACT ANTENNA MANUFACTURER TO DETERMINE WHETHER ADDITIONAL MOUNTING HARDWARE IS REQUIRED AND INSTALL PER MANUFACTURER'S SPECIFICATIONS.

RELOCATE GROUND WIRE

SCALE: N.T.S.

MISSING U-BOLT AT FM MOUNT

SCALE: N.T.S.

LOADING REMOVAL

SCALE: N.T.S.

REPLACE SAFETY CLIMB SYSTEMS

SCALE: N.T.S.

SKEWED U-BOLTS

SCALE: N.T.S.

REPLACE FEED LINE HANGERS

SCALE: N.T.S.

RELOCATE GROUND WIRE

SCALE: N.T.S.

MISSING U-BOLT AT FM MOUNT

SCALE: N.T.S.

SURFACE CORROSION IS PRESENT AT THE FOLLOWING LOCATIONS:

- FLANGE BOLTS THROUGHOUT THE TOWER.
- CHANNEL HORIZONTAL AT 879'.
- MOUNTING HARDWARE ON ANTENNAS 1, 13, 14, AND 16.
- SKEWED MOUNT U-BOLT ON ANTENNAS AT 26' AND 1363'.
- AXLE ASSOCIATED WITH THE ELEVATOR CABLE PULLEYS.
- ELEVATOR DOOR AND ELEVATOR PLATFORMS THROUGHOUT THE TOWER.
- GUY DAMPENER ON GUY WIRE 6 AT ANCHOR BB.
- FAN PLATE BOLTS, ANCHOR PINS, AND VARI-GRIP THREADED RODS AT ANCHOR SHAFTS AA, B, BB, C, AND CC.

THOROUGHLY CLEAN AREAS OF CORROSION AND COAT WITH AT LEAST TWO COATS OF ZRC COLD GALVANIZING COMPOUND OR APPROVED EQUIVALENT. DURING OR BEFORE CLEANING, IF ANY HARDWARE EXHIBITS SECTION LOSS, PITTING, OR HOLES, THEY SHOULD BE REPLACED. [CONTRACTOR TO FIELD MATCH EXISTING.]

BOTTOM LADDER CONNECTION BOLTS AT BASE OF TOWER ARE LOOSE.



TIGHTEN LADDER CONNECTION BOLTS. INSTALL SHIMS AS NEEDED.

COMPOUND FENCE IS DAMAGED IN THE NORTH AND EAST CORNERS.



REPAIR DAMAGED AREAS OF THE FENCE.

SURFACE CORROSION
SCALE: N.T.S.

MODERATE CORROSION OBSERVED ON ALL COTTER PINS AT ALL GUY LEVELS AT TOWER AND ANCHOR CONNECTIONS.



EXISTING GUY HARDWARE COTTER PINS TO BE REPLACED WITH STAINLESS STEEL COTTER PINS.

CORRODED COTTER PINS
SCALE: N.T.S.

LOOSE LADDER BOLTS
SCALE: N.T.S.

GUY DAMPERS APPEARED TO BE BENT OR DAMAGED AT THE FOLLOWING LOCATIONS:

- GUY LEVELS 6-8 AT ANCHORS AA AND BB.
- GUY LEVELS 3 AND 4 AT ANCHOR C.



REPLACE EXISTING GUY DAMPERS. MATCH EXISTING SIZE.

DAMAGED GUY DAMPERS
SCALE: N.T.S.

DAMAGED COMPOUND FENCE.
SCALE: N.T.S.

SURFACE CORROSION BELOW GRADE WAS OBSERVED AT ANCHOR SHAFTS AA, B, BB, C, AND CC.



THOROUGHLY CLEAN AREAS OF CORROSION AND COAT WITH AT LEAST TWO COATS OF ZRC COLD GALVANIZING COMPOUND OR APPROVED EQUIVALENT. DURING OR BEFORE CLEANING, IF ANY HARDWARE EXHIBITS SECTION LOSS, PITTING, OR HOLES, THEY SHOULD BE REPLACED. [CONTRACTOR TO FIELD MATCH EXISTING.]

CORRODED ANCHOR SHAFT
SCALE: N.T.S.

PLANS PREPARED FOR:

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Mississippi Public Broadcasting

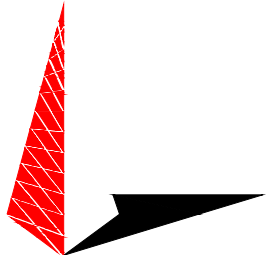
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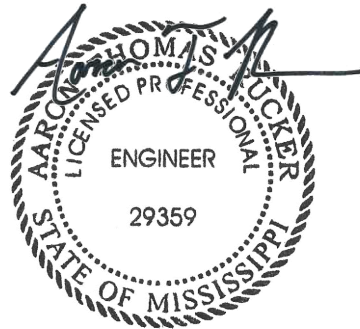
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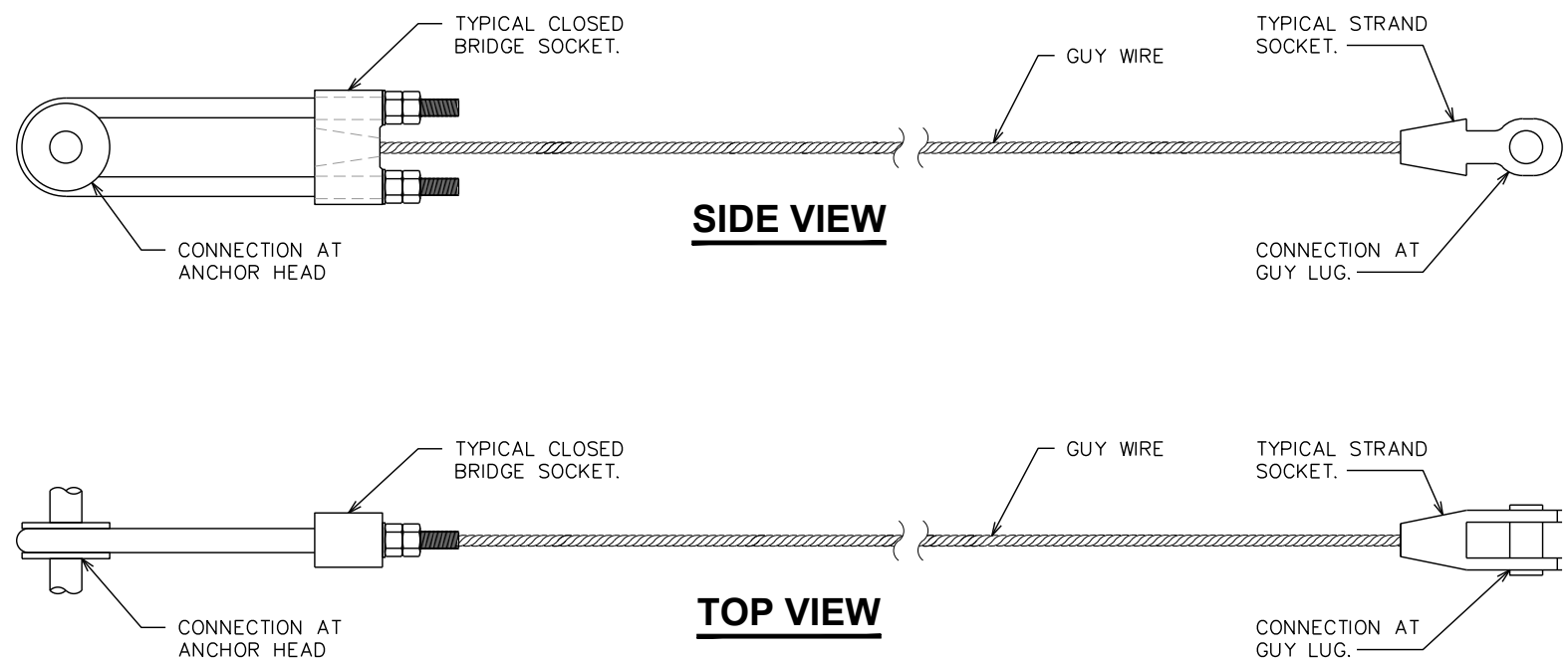
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SHEET TITLE:

**GENERAL
MAINTENANCE
DETAILS II**

SHEET NUMBER:	REVISION:
S-3	0
TEP#:250673.814218	



PLANS PREPARED FOR:

MPB
Mississippi Public Broadcasting

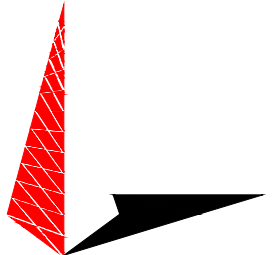
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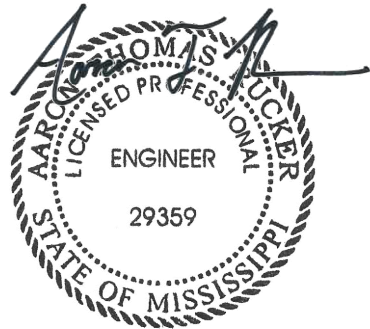
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REV	DATE	ISSUED FOR:
0	04-14-23	MAINTENANCE DRAWINGS

DRAWN BY: EAJ CHECKED BY: LFC

SHEET TITLE:

**GUY WIRE
DETAILS I**

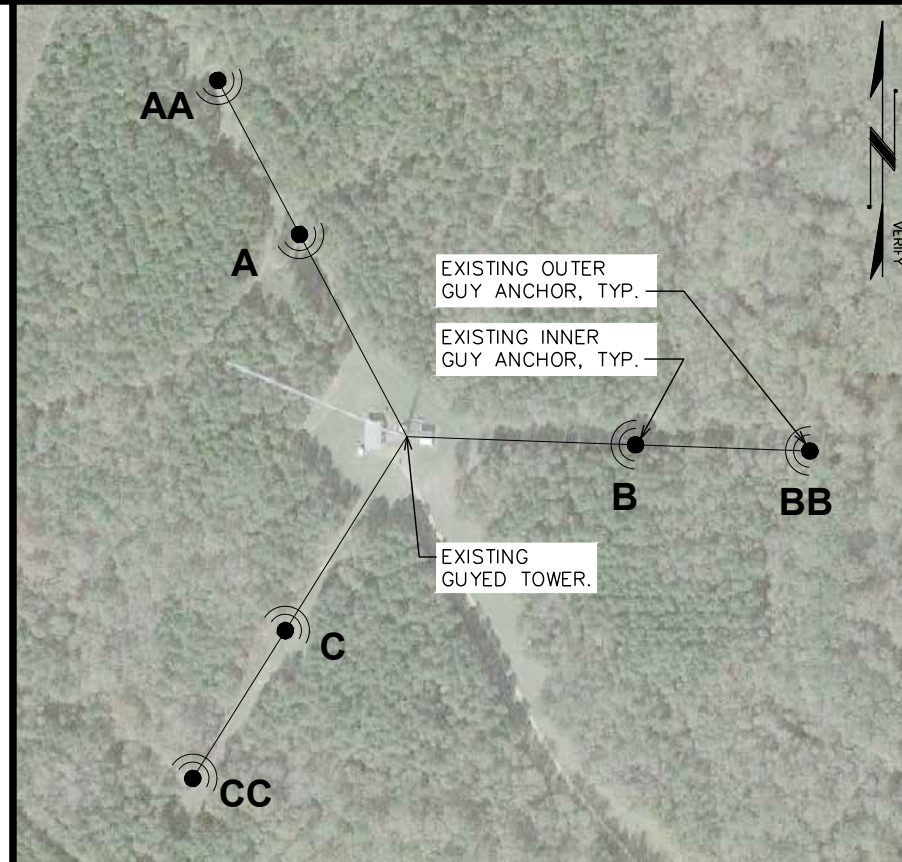
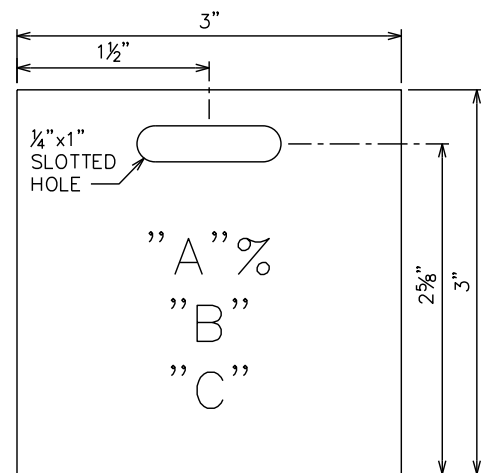
SHEET NUMBER: **S-4** REVISION: **0**

TEP#: 250673.814218

TAG TEXT CHART				
ELEV. (FT.)	"A"	"B"	"C"	TAG QTY.
1429	8	1 5/8"	BS	3
1242.3	8	1 5/8"	BS	3
1062.3	8	1 5/8"	BS	3
882.3	8	1 5/8"	BS	3
702.3	10	1 1/2"	BS	3
522.3	10	1 1/2"	BS	3
342.3	13	1 5/8"	BS	3
169.0	13	1 1/4"	BS	3

TENSION TAG NOTES:

- TAG MATERIAL SHALL BE 12 Ga. STAINLESS STEEL
- ATTACH TAG TO GUY WIRE WITH (1) 1/2"x2" STAINLESS STEEL WORM-DRIVE HOSE CLAMP WITH STAINLESS STEEL SCREW.
- TEXT SIZE ON TAG: 1/4" HIGH, CENTERED HORIZONTALLY AND VERTICALLY ON TAG.
- PUNCH CARD TYPE TAGS ARE ALSO PERMITTED IN ACCORDANCE WITH NOTES 1 THROUGH 4. USE 1/8" MINIMUM LETTERING FOR PUNCH-TYPE TAGS.



GUY ANCHOR PLAN VIEW

SCALE: N.T.S.

INSTALL GUYS & PLUMB TOWER:

1. THE MODIFICATIONS ARE DESIGNED FOR INITIAL TENSION AS SPECIFIED BELOW. IT IS IMPORTANT THAT THE GUYS BE TENSIONED ACCURATELY TO ASSURE THE STIFFNESS OF THE TOWER. THE USE OF WIRE ROPE CLIPS AS DEAD-END SLEEVES IS PROHIBITED.
2. UNEVEN TERRAIN, TEMPERATURE, PLUMBNESS OF TOWER AND WIND ARE FACTORS WHICH AFFECT GUY TENSIONS. IF THE TOWER SITE IS LEVEL AND ANCHOR DISTANCES ARE EQUAL, THE TENSIONS IN ALL THREE GUYS AT A LEVEL WILL BE EQUAL WHEN THE TOWER IS PLUMB. IF THE TERRAIN OF THE TOWER SITE IS UNEVEN, THE GUYS ARE NOT PERFECTLY SYMMETRICAL AND TENSIONS IN GUYS VARY IN THE THREE DIRECTIONS. INITIAL GUY TENSIONS, SHOWN ON THIS SHEET, ARE BASED ON THE RELATIVE ELEVATION SHOWN. THE TOWER SHOULD BE PLUMBED WITH THE SPECIFIED TENSIONS.
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GUY WIRE PROPERTIES												
Guy Elevation	Guy Grade		Guy Size	Initial Tension	%	Guy Modulus	Guy Weight	L _u	Anchor Radius	Anchor Azimuth Adj.	Anchor Elevation	End Fitting Efficiency
ft				K		ksi	plf	ft	ft	°	ft	%
1429	BS	A	1 5/8	25.92	8%	24000	5.55	1779.94	1047.00	0.000	-12.00	100%
		B	1 5/8	25.92	8%	24000	5.55	1803.64	1050.00	0.000	-39.00	100%
		C	1 5/8	25.92	8%	24000	5.55	1788.86	1047.00	0.000	-23.00	100%
1242.3	BS	A	1 5/8	25.92	8%	24000	5.55	1632.35	1047.00	0.000	-12.00	100%
		B	1 5/8	25.92	8%	24000	5.55	1655.12	1050.00	0.000	-39.00	100%
		C	1 5/8	25.92	8%	24000	5.55	1640.83	1047.00	0.000	-23.00	100%
1062.3	BS	A	1 5/8	25.92	8%	24000	5.55	1498.32	1047.00	0.000	-12.00	100%
		B	1 5/8	25.92	8%	24000	5.55	1519.90	1050.00	0.000	-39.00	100%
		C	1 5/8	25.92	8%	24000	5.55	1506.24	1047.00	0.000	-23.00	100%
882.3	BS	A	1 5/8	25.92	8%	24000	5.55	1054.80	595.00	0.000	8.00	100%
		B	1 5/8	25.92	8%	24000	5.55	1087.87	596.00	0.000	-31.00	100%
		C	1 5/8	25.92	8%	24000	5.55	1068.10	598.00	0.000	-6.00	100%
702.3	BS	A	1 1/2	27.60	10%	24000	4.73	910.92	595.00	0.000	8.00	100%
		B	1 1/2	27.60	10%	24000	4.73	941.58	596.00	0.000	-31.00	100%
		C	1 1/2	27.60	10%	24000	4.73	923.55	598.00	0.000	-6.00	100%
522.3	BS	A	1 1/2	27.60	10%	24000	4.73	782.61	595.00	0.000	8.00	100%
		B	1 1/2	27.60	10%	24000	4.73	809.48	596.00	0.000	-31.00	100%
		C	1 1/2	27.60	10%	24000	4.73	794.11	598.00	0.000	-6.00	100%
342.3	BS	A	1 5/8	42.12	13%	24000	5.55	677.87	595.00	0.000	8.00	100%
		B	1 5/8	42.12	13%	24000	5.55	698.74	596.00	0.000	-31.00	100%
		C	1 5/8	42.12	13%	24000	5.55	687.46	598.00	0.000	-6.00	100%
169	BS	A	1 1/4	24.96	13%	24000	3.28	611.40	595.00	0.000	8.00	100%
		B	1 1/4	24.96	13%	24000	3.28	623.74	596.00	0.000	-31.00	100%
		C	1 1/4	24.96	13%	24000	3.28	618.11	598.00	0.000	-6.00	100%

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2. SEE SHEET S-4 FOR THE NECESSARY GUY HARDWARE TO COMPLETE THE INSTALLATION. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING, FABRICATION, & ERECTION OF ANY MATERIALS. CONTRACTOR IS RESPONSIBLE FOR TEMPORARILY GUYING THE TOWER DURING MODIFICATION WORK.
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4. THE MAXIMUM DEVIATION FROM THE DESIGN INITIAL TENSION SHALL BE ±10% FOR GUYS UP TO AND INCLUDING 1" DIAMETER AND ±5% FOR GUYS GREATER THAN 1" DIAMETER, OF THE SPECIFIED DESIGN INITIAL TENSION AT AN ANCHORAGE, CORRECTED FOR THE AMBIENT TEMPERATURE.

PLANS PREPARED FOR:



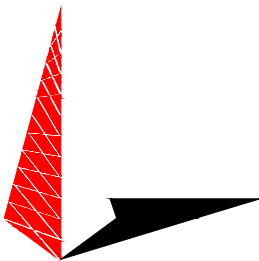
3825 RIDGEWOOD RD.
JACKSON, MS 39211-6497
OFFICE: (601) 432-6770

PROJECT INFORMATION:

WMPN RAYMOND
FCC ASR #: 1046007

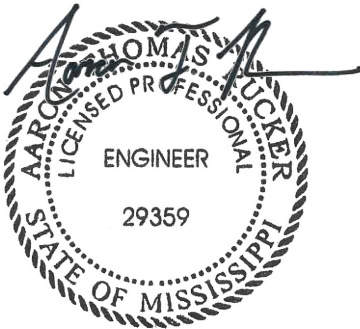
4700 OAKLEY PALESTINE RD.
RAYMOND, MS 39154
(HINDS COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:



April 14, 2023

O	04-14-23	MAINTENANCE DRAWINGS
REV	DATE	ISSUED FOR:

DRAWN BY: EAJ CHECKED BY: LFC

SHEET TITLE:

GUY WIRE
DETAILS II

SHEET NUMBER:	REVISION:
S-5	0
TEP#:250673.814218	

INSTALL GUYS & PLUMB TOWER:

1. THE MODIFICATIONS ARE DESIGNED FOR INITIAL TENSION AS SPECIFIED BELOW. IT IS IMPORTANT THAT THE GUYS BE TENSIONED ACCURATELY TO ASSURE THE STIFFNESS OF THE TOWER. THE USE OF WIRE ROPE CLIPS AS DEAD-END SLEEVES IS PROHIBITED.
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GUY TENSIONING INFORMATION

Temperature At Time Of Tensioning																	
Guy Elevation ft	H ft	V ft	0 F		20 F		40 F		60 F		80 F		100 F		120 F		
			Initial Tension K	Intercept ft	Initial Tension K	Intercept ft	Initial Tension K	Intercept ft	Initial Tension K	Intercept ft	Initial Tension K	Intercept ft	Initial Tension K	Intercept ft	Initial Tension K	Intercept ft	
1429	A	1042.38	1441.00	26.962	285.04	26.605	288.43	26.258	291.81	25.920	295.18	25.564	298.82	25.252	302.07	24.947	305.33
	B	1045.38	1468.00	26.941	292.18	26.592	295.58	26.252	298.96	25.920	302.34	25.569	306.00	25.264	309.26	24.965	312.52
	C	1042.38	1452.00	26.954	287.70	26.600	291.09	26.256	294.47	25.920	297.84	25.565	301.50	25.257	304.75	24.954	308.00
1242.3	A	1042.38	1254.33	27.147	242.32	26.733	245.71	26.333	249.08	25.920	252.64	25.553	255.91	25.195	259.17	24.846	262.43
	B	1045.38	1281.33	27.121	248.74	26.717	252.13	26.325	255.50	25.920	259.08	25.561	262.35	25.210	265.62	24.868	268.89
	C	1042.38	1265.33	27.138	244.68	26.728	248.06	26.330	251.43	25.920	255.01	25.556	258.27	25.201	261.54	24.855	264.80
1062.3	A	1042.38	1074.33	27.318	206.37	26.801	210.02	26.355	213.27	25.920	216.55	25.498	219.82	25.090	223.08	24.696	226.33
	B	1045.38	1101.33	27.287	212.06	26.781	215.72	26.345	218.98	25.920	222.26	25.507	225.53	25.108	228.80	24.721	232.05
	C	1042.38	1085.33	27.307	208.43	26.832	211.80	26.351	215.34	25.920	218.61	25.502	221.88	25.097	225.14	24.705	228.39
882.3	A	590.38	874.33	27.885	102.00	27.204	104.37	26.550	106.75	25.920	109.14	25.315	111.54	24.734	113.95	24.176	116.37
	B	591.38	913.33	27.776	108.50	27.134	110.87	26.516	113.26	25.920	115.65	25.346	118.06	24.794	120.47	24.262	122.88
	C	593.38	888.33	27.847	104.59	27.180	106.97	26.538	109.36	25.920	111.76	25.326	114.17	24.755	116.59	24.207	119.01
702.3	A	590.38	694.33	30.655	60.83	29.593	62.91	28.575	65.05	27.600	67.23	26.668	69.46	25.779	71.72	24.931	74.03
	B	591.38	733.33	30.468	65.19	29.474	67.28	28.518	69.42	27.600	71.60	26.720	73.83	25.878	76.10	25.073	78.40
	C	593.38	708.33	30.591	62.59	29.552	64.69	28.555	66.83	27.600	69.03	26.686	71.27	25.814	73.54	24.981	75.86
522.3	A	590.38	514.33	31.773	43.96	30.303	46.02	28.911	48.15	27.600	50.35	26.368	52.62	25.214	54.93	24.136	57.28
	B	591.38	553.33	31.503	47.28	30.132	49.35	28.831	51.49	27.600	53.70	26.439	55.96	25.347	58.27	24.265	60.75
	C	593.38	528.33	31.675	45.35	30.240	47.42	28.882	49.57	27.600	51.79	26.394	54.06	25.264	56.38	24.206	58.74
342.3	A	590.38	334.33	50.616	24.76	47.659	26.28	44.822	27.91	42.120	29.67	39.564	31.55	37.164	33.55	34.926	35.65
	B	591.38	373.33	50.121	26.51	47.342	28.04	44.671	29.69	42.120	31.45	39.699	33.32	37.416	35.31	35.277	37.40
	C	593.38	348.33	50.438	25.54	47.544	27.07	44.767	28.72	42.120	30.49	39.614	32.38	37.257	34.38	35.058	36.49
169	A	590.38	161.00	31.176	19.52	28.995	20.98	26.918	22.59	24.960	24.34	23.134	26.25	21.451	28.29	19.914	30.46
	B	591.38	200.00	30.942	20.42	28.846	21.90	26.848	23.51	24.960	25.27	23.195	27.18	21.560	29.21	20.063	31.37
	C	593.38	175.00	31.086	19.99	28.937	21.47	26.890	23.09	24.960	24.86	23.159	26.77	21.496	28.83	19.976	31.00

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PLANS PREPARED FOR:



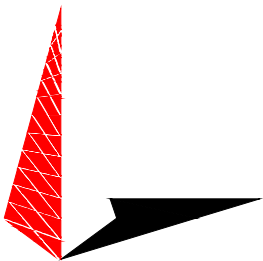
3825 RIDGEWOOD RD.
JACKSON, MS 39211-6497
OFFICE: (601) 432-6770

PROJECT INFORMATION:

WMPN RAYMOND
FCC ASR #: 1046007

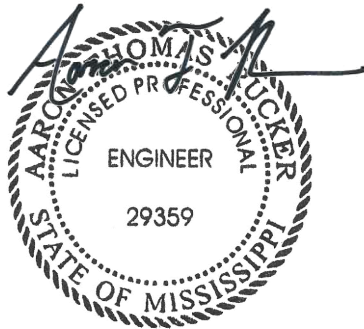
4700 OAKLEY PALESTINE RD.
RAYMOND, MS 39154
(HINDS COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:



April 14, 2023

O	04-14-23	MAINTENANCE DRAWINGS
REV	DATE	ISSUED FOR:

DRAWN BY: EAJ CHECKED BY: LFC

SHEET TITLE:

GUY WIRE
DETAILS III

SHEET NUMBER:

S-6

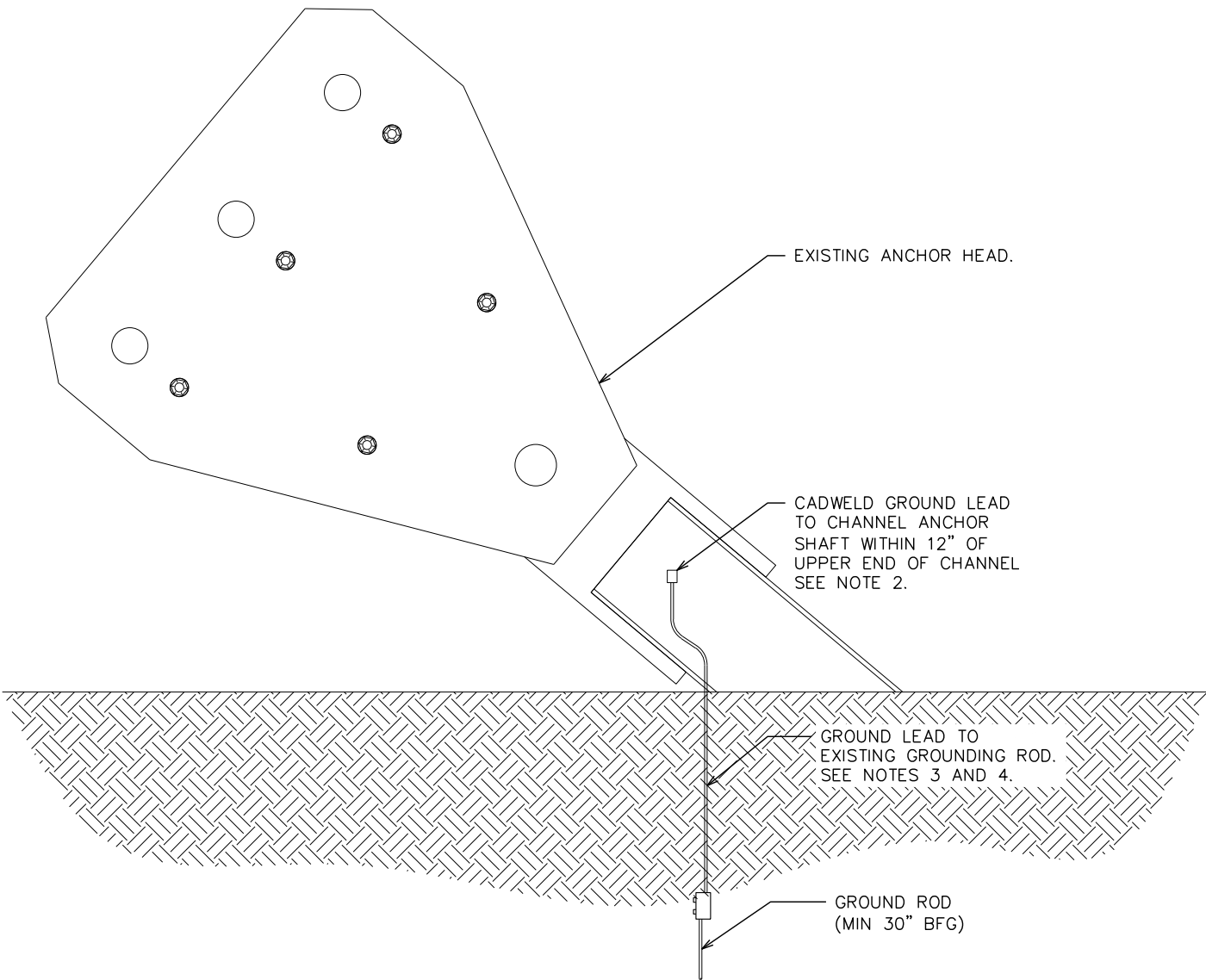
REVISION:

0

TEP#:250673.814218

NOTES:

- 1. GUY WIRES NOT SHOWN FOR CLARITY.
- 2. ANCHOR HEAD TO BE GROUNDED AS SHOWN BELOW UTILIZING #2 AWG SOLID BARE TINNED COPPER WIRE TO THE ANCHOR'S EXISTING BURIED GROUND ROD OR GROUND RING.
- 3. GROUNDING WIRES MAY BE SPLICED TOGETHER BY CAD WELD PROCESS IF NECESSARY TO REACH THE EXISTING ANCHOR SHAFT.
- 4. IF A GROUND ROD IS NOT PRESENT AT THE SITE, CONTACT TEP AT SDD@TEPGROUP.NET.



PLANS PREPARED FOR:



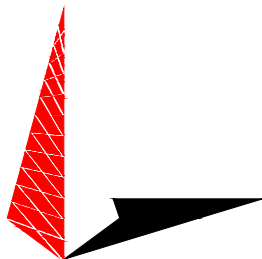
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PROJECT INFORMATION:

WMPN RAYMOND
FCC ASR #: 1046007

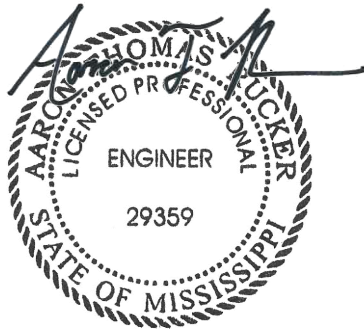
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SEAL:



April 14, 2023

O	04-14-23	MAINTENANCE DRAWINGS
REV	DATE	ISSUED FOR:

DRAWN BY: EAJ | CHECKED BY: LFC

SHEET TITLE:

GUY ANCHOR
GROUNDING DETAILS

SHEET NUMBER:

S-7

REVISION:

0

TEP#:250673.814218