

GENERAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL PERMITS NECESSARY TO COMPLETE THE PROJECT AND ABIDE BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED TO FDH ENGINEERING FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.
- INCORRECTLY FABRICATED, DAMAGED, OTHERWISE MISFITTING, OR NON-CONFORMING MATERIALS AND CONDITIONS SHALL BE REPORTED TO FDH ENGINEERING PRIOR TO ANY REMEDIAL OR CORRECTIVE ACTION. ALL ACTIONS SHALL REQUIRE FDH ENGINEERING APPROVAL.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AFTER THE COMPLETION OF THE PROJECT.
- CONTRACTOR SHALL PROMPTLY REMOVE ANY & ALL DEBRIS FROM SITE AND RESTORE AS BEST AS POSSIBLE TO PRECONSTRUCTION CONDITION.

CONTRACTOR QUALIFICATION NOTES:

- ALL REPAIRS SHALL BE PERFORMED BY A TOWER CONTRACTOR WITH A MINIMUM 5 YEARS EXPERIENCE IN TOWER ERECTION AND RETROFIT AND WITH WORKING KNOWLEDGE OF THE ANSI/TIA-222-G "STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS".
- CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS. SHOULD THE CONTRACTOR REQUIRE DIRECT CONSULTATION, FDH ENGINEERING, INC. IS WILLING TO OFFER SERVICES BASED UPON AN AGREED FEE FOR THE WORK REQUIRED.
- ALL SUBMITTAL INFORMATION MUST BE SENT TO FDH ENGINEERING, INC. 2730 ROWLAND RD., RALEIGH NC, 27615, TEL. (919) 755-1012, FAX. (919) 755-1031, E-MAIL INFO@FDH-INC.COM. ANY VARIATION OF THESE SPECIFICATIONS OR DRAWINGS WITHOUT CONSENT FROM FDH ENGINEERING, INC. WILL VOID ANY RESPONSIBILITY OR LIABILITY FOR DAMAGE (MATERIAL OR PHYSICAL) TOWARDS FDH ENGINEERING, INC.

JOB SITE SAFETY & NOTES:

- NEITHER THE PROFESSIONAL ACTIVITIES OF FDH ENGINEERING, INC. NOR THE PRESENCE OF FDH ENGINEERING, INC. OR EMPLOYEES AND SUB-CONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE GENERAL CONTRACTOR AND OR SUBCONTRACTORS AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE GENERAL CONTRACTOR AND OR SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY, AND WARRANTS THAT THIS INTENT IS EVIDENT BY ACCEPTING THIS WORK.

SUBSTITUTES AND/OR EQUALS:

- IF CONTRACTOR WISHES TO FURNISH OR USE A SUBSTITUTE ITEM OF MATERIAL OR EQUIPMENT, CONTRACTOR SHALL FIRST MAKE WRITTEN APPLICATION TO ENGINEER OF RECORD FOR ACCEPTANCE THEREOF, CERTIFYING THAT THE PROPOSED SUBSTITUTE WILL PERFORM ADEQUATELY THE FUNCTIONS AND ACHIEVE THE RESULTS CALLED FOR BY THE GENERAL DESIGN, BE SIMILAR IN SUBSTANCE TO THAT SPECIFIED AND SUITED TO THE SAME USE AS THAT SPECIFIED. ALL VARIATIONS OF THE PROPOSED SUBSTITUTE FROM THAT SPECIFIED WILL BE IDENTIFIED IN THE APPLICATION AND AVAILABLE MAINTENANCE, REPAIR AND REPLACEMENT SERVICE WILL BE INDICATED. THE APPLICATION WILL ALSO CONTAIN AN ITEMIZED ESTIMATE OF ALL COSTS OR CREDITS THAT WILL RESULT DIRECTLY OR INDIRECTLY FROM ACCEPTANCE OF SUCH SUBSTITUTE INCLUDING COSTS OF REDESIGN AND CLAIMS OF OTHER CONTRACTORS AFFECTED BY THE RESULTING CHANGE, ALL OF WHICH WILL BE CONSIDERED BY ENGINEER OF RECORD IN EVALUATION THE PROPOSED SUBSTITUTE. ENGINEER OF RECORD MAY REQUIRE CONTRACTOR TO FURNISH ADDITIONAL DATA ABOUT THE PROPOSED SUBSTITUTE.

STEEL:

- ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC CODE AND ASTM SPECIFICATIONS.
 - *ALL EXTENSION PLATE STEEL SHALL CONFORM TO A572-50 GRADE 50 (Fy=50KSI) OR EQUIVALENT UNLESS OTHERWISE SPECIFIED.
 - *ALL PORTHOLE STEEL SHALL CONFORM TO A500 GR. C (Fy=46KSI) OR EQUIVALENT UNLESS OTHERWISE SPECIFIED.
 - *ALL TRANSFER PLATE STEEL SHALL BE ASTM A572-65 (Fy=65KSI) UNLESS OTHERWISE SPECIFIED.
 - *ALL PIPE STEEL SHALL BE ASTM A500 GR. C (Fy=50KSI) UNLESS OTHERWISE SPECIFIED.
 - *ALL THREADBAR SHALL BE ASTM A615 GR. 75 (Fy=75KSI) UNLESS OTHERWISE SPECIFIED.
- ALL CONNECTIONS OF STRUCTURAL STEEL MEMBERS SHALL BE MADE USING SPECIFIED WELDS WITH WELDING ELECTRODES E-80XX OR SPECIFIED HIGH STRENGTH BOLTS TO BE ASTM A325N, THREAD INCLUDED WITH SHEAR PLANE (UNLESS OTHERWISE NOTED).
- ALL BOLTED CONNECTIONS TO BE INSTALLED TO A SNUG-TIGHTENED CONDITION IN ACCORDANCE WITH AISC13 PART 16.2, "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", SECTION 8.1, UNLESS OTHERWISE SPECIFIED.
- ALL STEEL, AFTER FABRICATION, SHALL BE HOT DIPPED GALVANIZED PER ASTM A-123. ALL DAMAGED SURFACES, WELDED AREAS AND AUTHORIZED NON-GALVANIZED MEMBERS OR PARTS (EXISTING OR NEW) SHALL BE PAINTED WITH 2 COATS OF ZRC COLD GALVANIZING COMPOUND.
- ALL SHOP AND FIELD WELDING SHALL BE DONE BY WELDERS QUALIFIED AS DESCRIBED IN THE "AMERICAN WELDING SOCIETY'S STANDARD QUALIFICATION PROCEDURE" TO PERFORM THE TYPE OF WORK REQUIRED. CONTRACTOR IS REQUIRED TO PROVIDE FDH ENGINEERING, INC. WITH A PASSING CERTIFIED WELDING INSPECTION FOR ALL WELDS.
- STRUCTURAL STEEL MAY NOT BE TORCH CUT FOR FABRICATION. ALL STEEL FABRICATION MUST FOLLOW AISC STANDARDS.

SURFACE PREPARATION:

- PREPARE SURFACE TO BE WELDED BY REMOVING PAINT OR GALVANIZATION TO BARE METAL USING POWER WIRE BRUSHING IN ACCORDANCE WITH SSPC-SP11, (STEEL STRUCTURES PAINTING COUNCIL). FOLLOWING POWER WIRE BRUSHING CONTRACTOR SHALL POLISH METAL SURFACE WITH HIGH SPEED GRINDER WITH 400+ GRIT SANDPAPER.
- AFTER NEW STEEL INSTALLATION CONTRACTOR TO BRUSH PAINT (2) COATS OF ZRC OR ZINGA COLD GALVANIZATION COMPOUND PER MANUFACTURER'S SPECIFICATIONS.

WELDING NOTES:

- ALL WELDING TO THE EXISTING TOWER SHALL BE PERFORMED BY CERTIFIED WELDERS UTILIZING PROCEDURES QUALIFIED IN ACCORDANCE WITH AWS D1.1 AND AWS C5.4.
- CONTRACTOR SHALL COMPLY WITH AWS D1.1 FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". CONTRACTOR SHALL SUBMIT CERTIFICATION OF WELDERS TO THE ENGINEER PRIOR TO COMMENCEMENT OF THE WORK.
- CONTRACTOR RESPONSIBLE FOR TEMPORARY HEAT SHIELDING AS REQUIRED DURING WELDING.
- CONTRACTOR RESPONSIBLE FOR VIEWING EXISTING TOWER FOR LOOSE AND FLAMMABLE MATERIAL PRIOR TO WELDING FLAT PLATE.
- ALL WELDS TO BE VISUALLY INSPECTED BY A CERTIFIED WELD INSPECTOR PER AWS D1.1.

JOB SITE SAFETY & NOTES:

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FABRICATION NOTES:

- ALL DIMENSIONS ARE PRELIMINARY UNTIL FIELD VERIFIED BY CONTRACTOR. ANY CHANGES MUST BE APPROVED BY ENGINEER OF RECORD IN WRITING PRIOR TO FABRICATION AND INSTALLATION.
- NEW STEEL MEMBERS MUST HAVE SINGLE DRILLED HOLES. SLOTTED AND DOUBLE DRILLED HOLES ARE NOT ACCEPTABLE MEANS OF FABRICATION.

ANCHOR ROD INSTALLATION NOTES:

- CONTRACTOR TO PROVIDE PHOTOS OF THE ANCHOR ROD HOLES TO FDH CONSTRUCTION MANAGER PRIOR TO INSTALLING NEW ANCHOR RODS. PHOTOS MUST SHOW THE DEPTH AND DIAMETER OF ANCHOR ROD HOLES.

HILTI NOTES:

- ALL HARDWARE ASSEMBLY AND MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED; ANY CONTRADICTION BETWEEN THE MANUFACTURER'S RECOMMENDATIONS AND THESE DRAWINGS ARE TO BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER AND OWNER.
- ANY CONTRACTOR INSTALLING ADHESIVE ANCHORING SYSTEMS SHALL BE TRAINED, IN PERSON BY A MANUFACTURER'S REPRESENTATIVE, ON THE PROPER INSTALLATION TECHNIQUES. THIS TRAINING SHALL INCLUDE PROPER DRILLING, HOLE CLEANING, AND INSTALLATION METHODS FOR THE ADHESIVE ANCHORING SYSTEM AND CONSTRUCTION CONDITIONS ON THIS PROJECT. ALL TRAINING TO BE CONDUCTED PRIOR TO CREWS STEPPING ON SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT MANUFACTURER REPRESENTATIVE TO SET UP TRAINING. FDH IS NOT RESPONSIBLE FOR ANY COST OCCURRED FOR OR DURING ADHESIVE ANCHORING SYSTEM TRAINING.

CORRECTION OF FAILING MODIFICATION INSPECTIONS:

IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI ("FAILED MI"), THE GC SHALL WORK WITH FDH TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:

- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.
 - IF A MI RE-VISIT IS REQUIRED, THE GC IS RESPONSIBLE FOR THE ASSOCIATED COST.
- OR, WITH FDH'S APPROVAL, THE GC MAY WORK WITH THE EOR TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT USING THE AS-BUILT CONDITION.

REQUIRED PHOTOS:

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

- 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 AND TORQUE
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR
- POST CONSTRUCTION PHOTOGRAPHS:
 - FINAL INFIELD CONDITION

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

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PREPARED FOR:



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FOR BIDDING ONLY



CHRISTOPHER M. MURPHY, P.E.
 CONNECTICUT LIC. NO. 25842

DRAWN BY: VRT
 CHECKED BY: BAB
 ENG APP'VD: CMM
 PROJECT NO: 11-01248E_S1

SUBMITTALS		
DATE	DESCRIPTION	REV
02/08/11	PRELIMINARY/REVIEW	A

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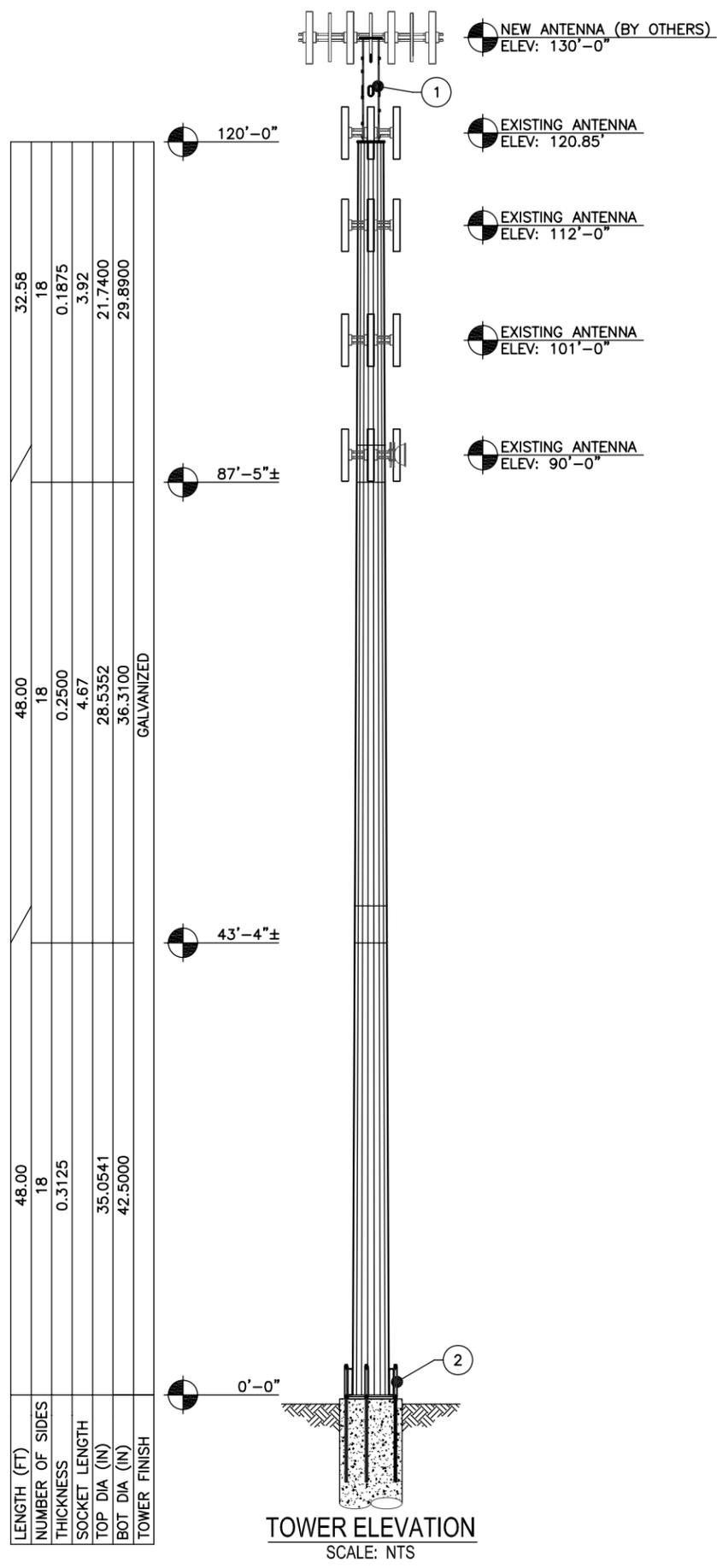
SITE NAME:
MIDDLETOWN 2

SITE NUMBER:
CT13064-A

SITE ADDRESS:
 50 FAIRCHILD ROAD
 MIDDLETOWN, CT 06457

SHEET TITLE
 GENERAL NOTES

SHEET NUMBER
N-1



TOWER MODIFICATION SCHEDULE			
NO.	TYPE OF MODIFICATION	BOTTOM ELEV. (FT)	TOP ELEV. (FT)
1	INSTALLATION OF 10'-0" PIPE EXTENSION. SEE S-2 THRU S-4 FOR DETAILS.	120.0	130.0
2	INSTALLATION OF NEW ANCHOR RODS. SEE S-5 & S-6 FOR DETAILS.	-6.0	4.0

ALL MODIFICATIONS TO BE INSTALLED CONTINUOUSLY THROUGH EXISTING EQUIPMENT. ALL EXISTING EQUIPMENT NOT TO BE DAMAGED OR TAKEN OFF AIR DURING INSTALLATION.

SEE STRUCTURAL ANALYSIS REPORT FOR EXISTING ANTENNA LOADING.

CONTRACTOR TO REPLACE/RELOCATE ALL EXISTING EQUIPMENT. THIS MAY INCLUDE LIGHTNING RODS, LIGHTING, SAFETY CLIMBS, ETC.

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FORBIDDEN TO REPRODUCE WITHOUT PERMISSION OF THE STATE OF CONNECTICUT
 Christopher M. Murphy, P.E.
 No. 25842
 LICENSED PROFESSIONAL ENGINEER
 CHRISTOPHER M. MURPHY, P.E.
 CONNECTICUT LIC. NO. 25842

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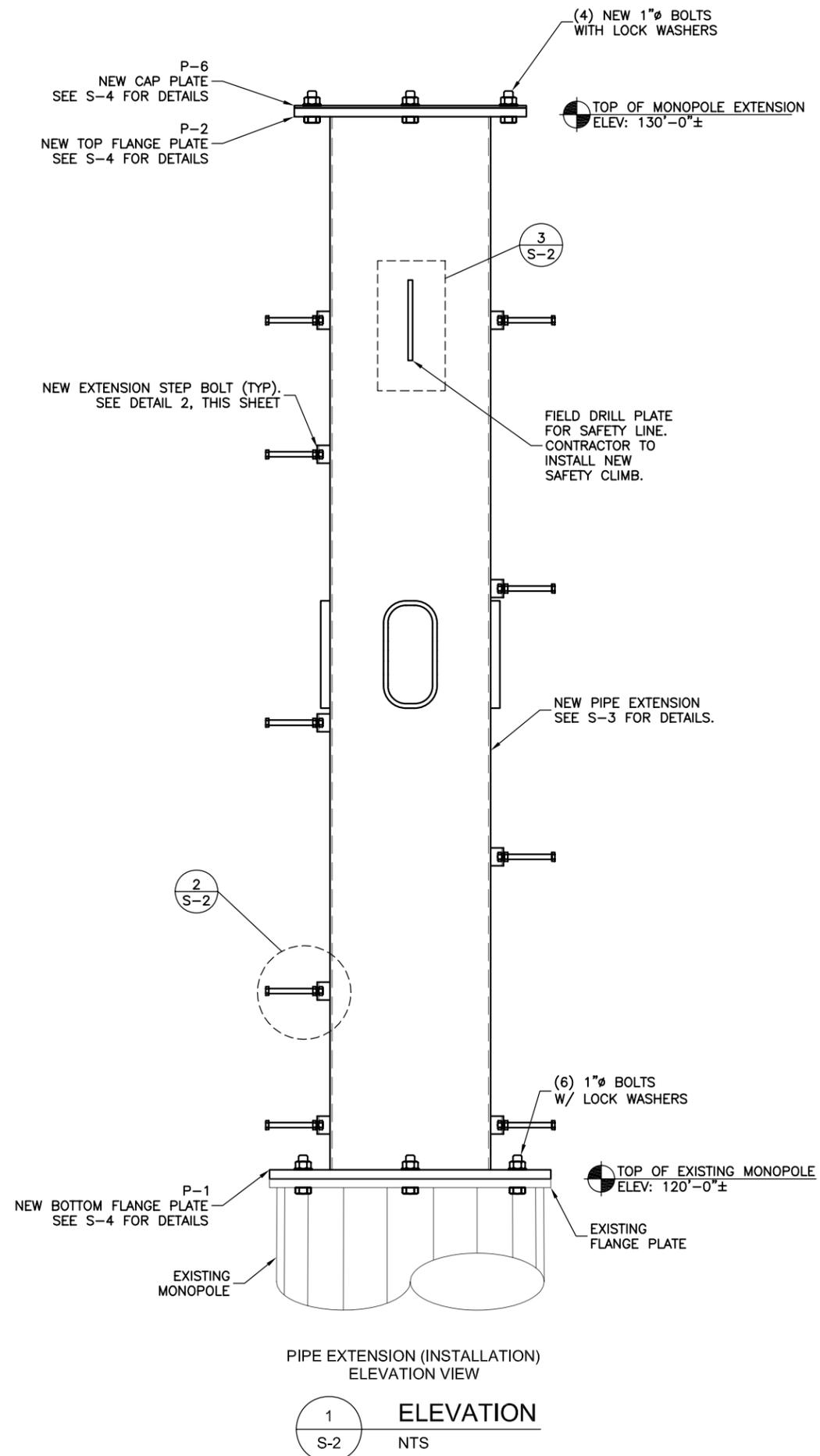
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CT13064-A

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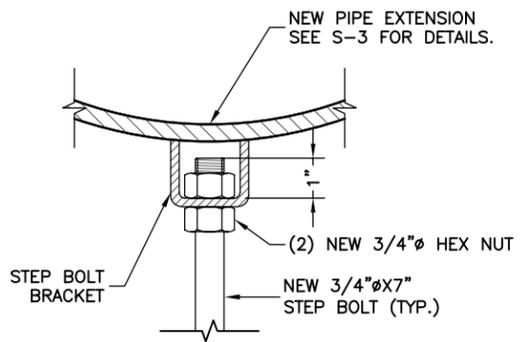
SHEET TITLE
 MODIFICATION SCHEDULE

SHEET NUMBER
S-1

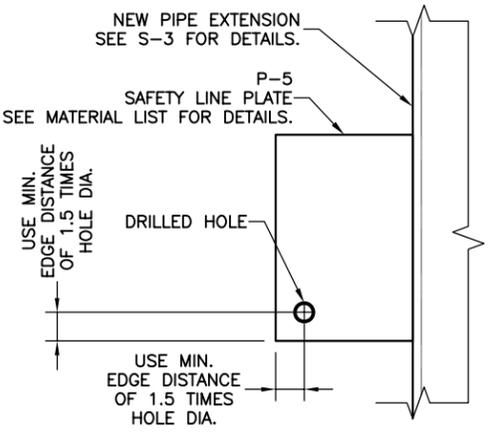


CONTRACTOR TO REPLACE SAFETY CLIMB CABLE. ONE CONTINUOUS CABLE IS REQUIRED FROM TOP OF EXTENSION TO BASE OF TOWER. SEE MATERIAL LIST FOR DETAILS.

INSTALL EXTENSION WITH STEP PEGS IN LINE WITH EXISTING STEP PEGS.



STEP BOLT INSTALLATION
PLAN VIEW
2
S-2
DETAIL
NTS



SAFETY LINE PLATE DRILL DETAIL
ELEVATION VIEW
3
S-2
DETAIL
NTS

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FORBIDDEN ONLY
STATE OF CONNECTICUT
Professional Engineer
No. 25842
LICENSED
2/8/11
CHRISTOPHER M. MURPHY, P.E.
CONNECTICUT LIC. NO. 25842

DRAWN BY: VRT
CHECKED BY: BAB
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CT13064-A

SITE ADDRESS:
**50 FAIRCHILD ROAD
MIDDLETOWN, CT 06457**

SHEET TITLE
**PIPE EXTENSION
INSTALLATION
DETAILS**

SHEET NUMBER
S-2

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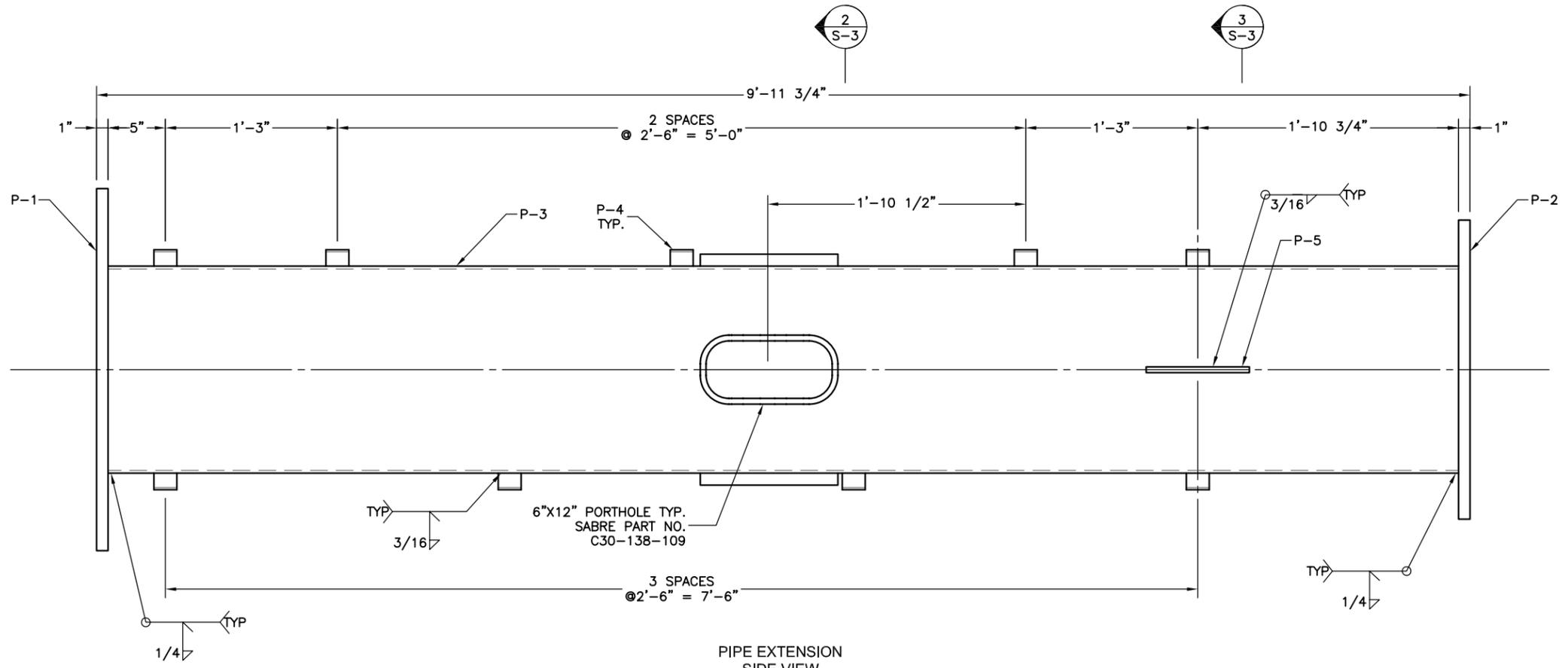
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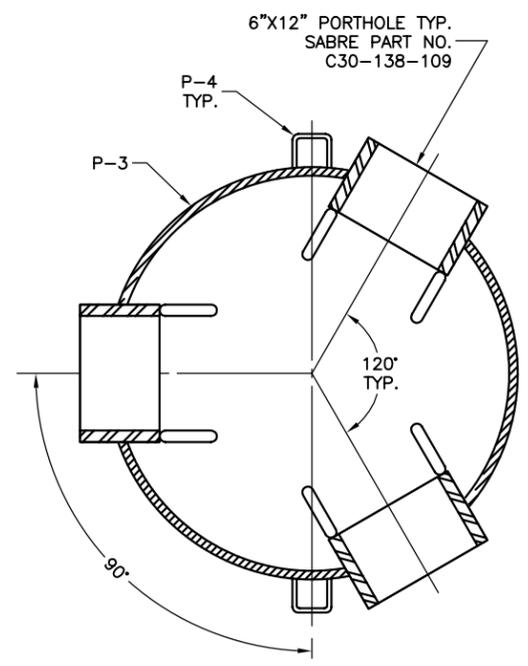
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SHEET TITLE
 PIPE EXTENSION
 DETAILS I

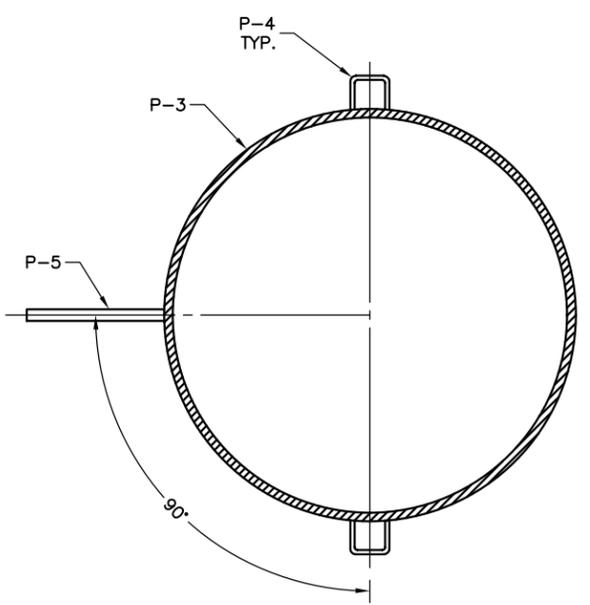
SHEET NUMBER
S-3



PIPE EXTENSION
 SIDE VIEW
 1
 S-3
DETAIL
 SCALE: 1=1'-0"



2
 S-3
SECTION
 SCALE: 1-1/2\"=1'-0"

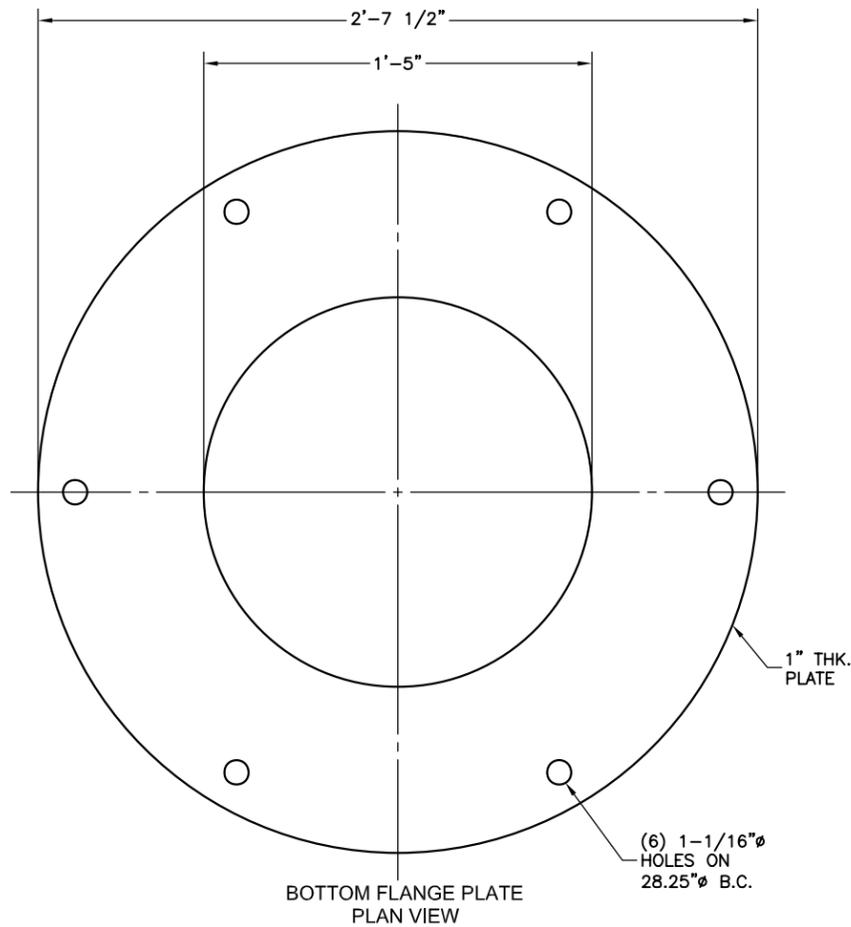


3
 S-3
SECTION
 SCALE: 1-1/2\"=1'-0"

MATERIAL LIST		
PART. NO	QTY.	DESCRIPTION
P-1	1	BOTTOM FLANGE PLATE*
P-2	1	TOP FLANGE PLATE*
P-3	1	18"Ø PIPE X 1/4" (HSS 18.0 X 0.25) (9'-9 3/4" LONG)
P-4	9	STEP BOLT BRACKET*
P-5	1	PL 1/2" X 6" X 9" SAFETY LINE PLATE*
P-6	1	CAP PLATE*
-	10	1"Ø A325 BOLTS W/ LOCK WASHERS
-	3	SABRE PORTHOLE (P/N C30-138-109)
-	1	3/8" EHS X 128'-0"± (SAFETY CLIMB CABLE)

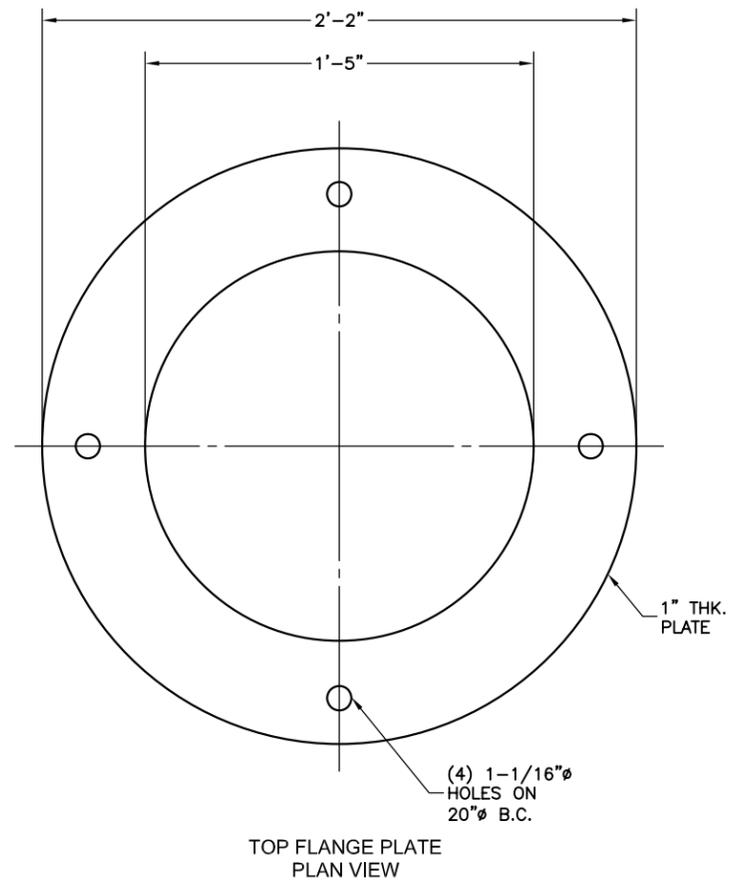
*PLATE STEEL SHALL CONFORM TO
 ASTM A572 GRADE 50 (Fy=50KSI)

- FABRICATION NOTES:
- CONTRACTOR TO FIELD VERIFY LOCATION OF PROPOSED EXTENSION PRIOR TO MATERIAL ORDERS AND FABRICATION.
 - ALL DIMENSIONS ARE PRELIMINARY UNTIL FIELD VERIFIED BY CONTRACTOR. ANY CHANGES MUST BE APPROVED BY ENGINEER OF RECORD IN WRITING PRIOR TO FABRICATION AND INSTALLATION.



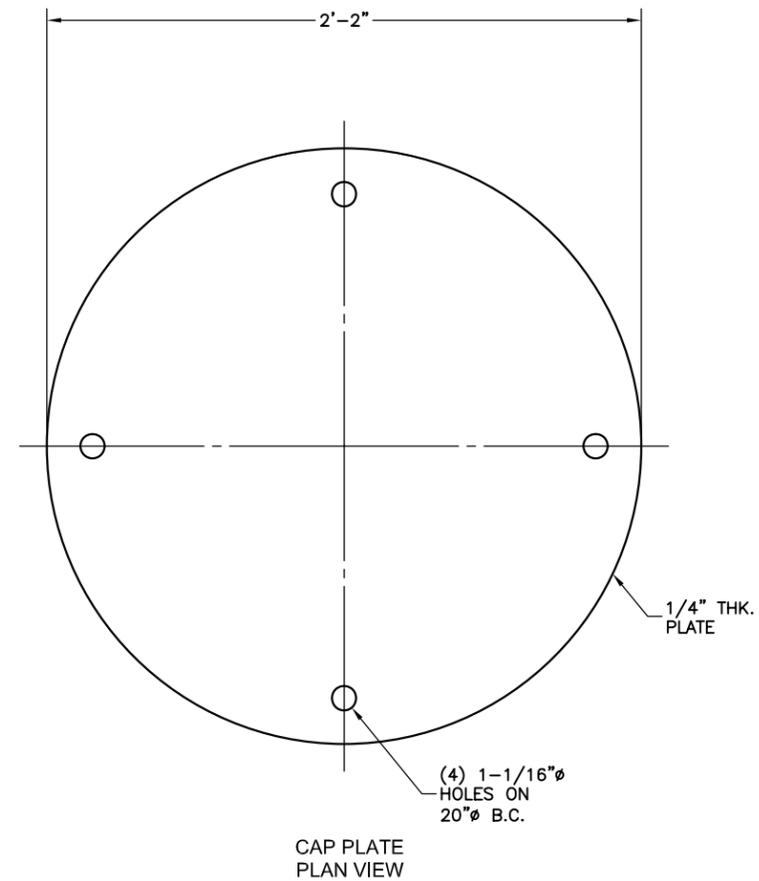
BOTTOM FLANGE PLATE
PLAN VIEW

P-1
S-4 **DETAIL**
SCALE: 1-1/2"=1'-0"



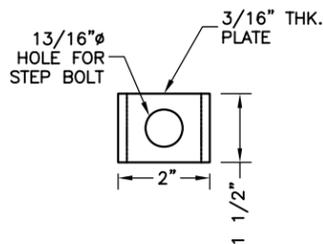
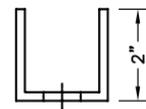
TOP FLANGE PLATE
PLAN VIEW

P-2
S-4 **DETAIL**
SCALE: 1-1/2"=1'-0"



CAP PLATE
PLAN VIEW

P-6
S-4 **DETAIL**
SCALE: 1-1/2"=1'-0"



STEP BOLT BRACKET
FRONT & TOP VIEW

P-4
S-4 **DETAIL**
SCALE: 3"=1'-0"

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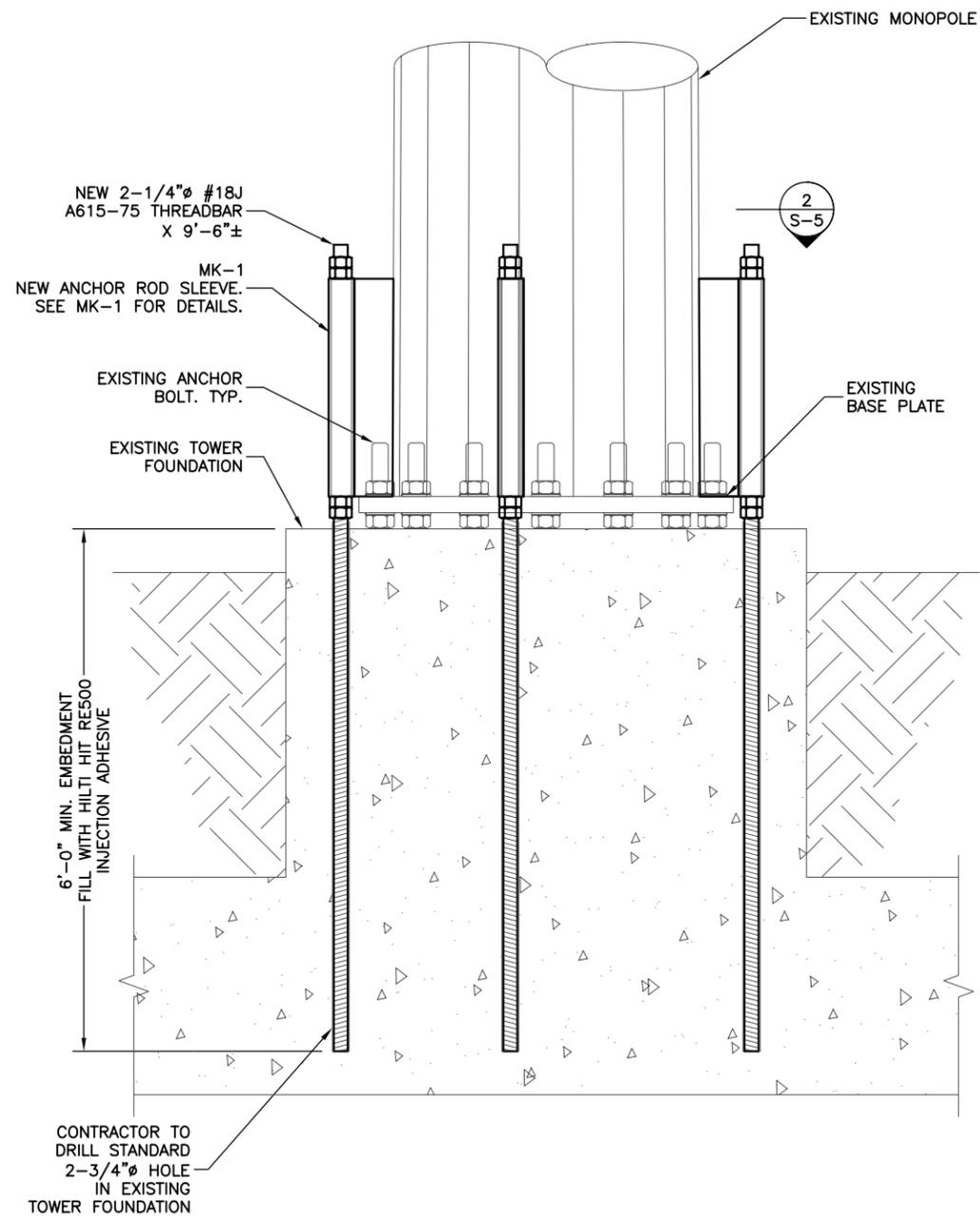
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SHEET TITLE
**PIPE EXTENSION
DETAILS II**

SHEET NUMBER

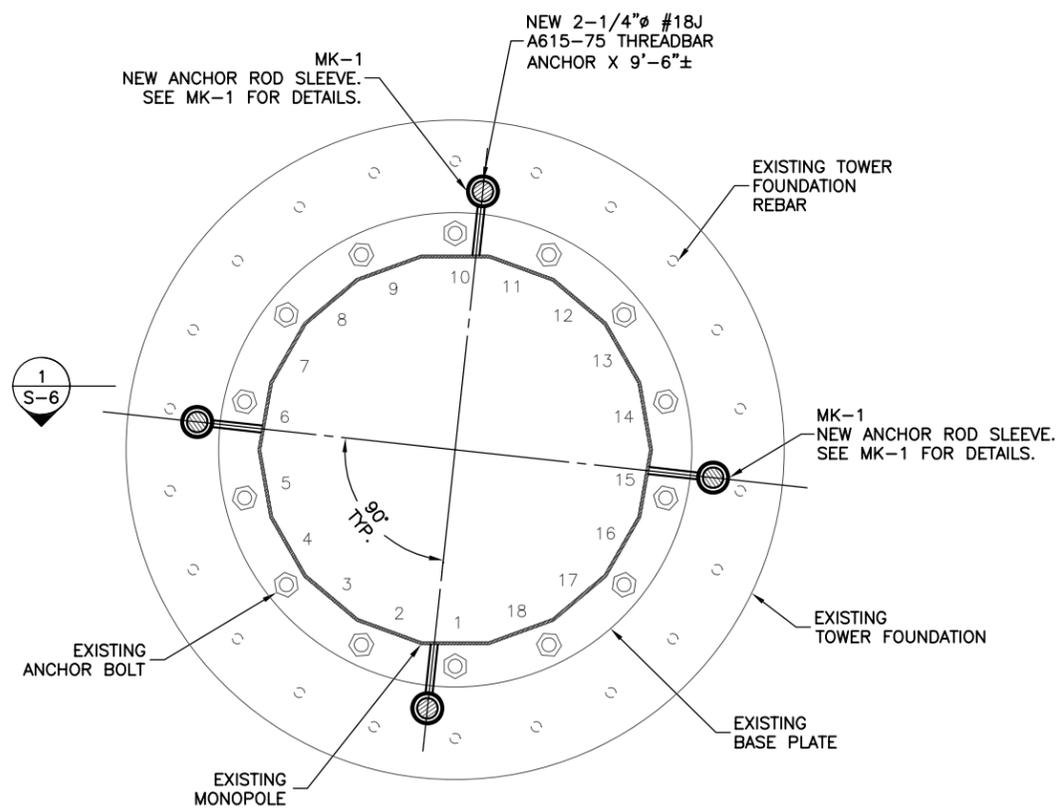
S-4



ANCHOR ROD INSTALLATION
ELEVATION VIEW

1
S-5

ELEVATION
NTS



ANCHOR ROD INSTALLATION
PLAN VIEW

1
S-6

PLAN
NTS

ANCHOR ROD MATERIAL LIST			
PART. NO	QTY.	DESCRIPTION	ELEVATION
MK-1	4	ANCHOR ROD BRACKET	0'-0"± TO 2'-6"±
-	4	2-1/4" #18J A615-75 THREADBAR X 9'-6"±	-
-	8	2-1/4" ROUND HARDENED WASHER	-
-	16	2-1/4" HEAVY-HEX NUTS	-

CONTRACTOR TO PROVIDE PHOTOS OF THE ANCHOR ROD HOLES TO FDH CONSTRUCTION MANAGER PRIOR TO INSTALLING NEW ANCHOR RODS. PHOTOS MUST SHOW THE DEPTH AND DIAMETER OF ANCHOR ROD HOLES.

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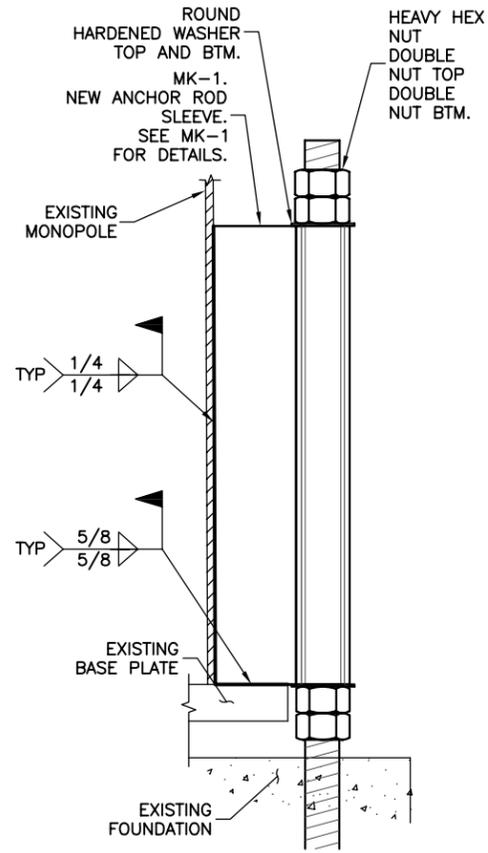
SITE NAME:
MIDDLETOWN 2

SITE NUMBER:
CT13064-A

SITE ADDRESS:
**50 FAIRCHILD ROAD
MIDDLETOWN, CT 06457**

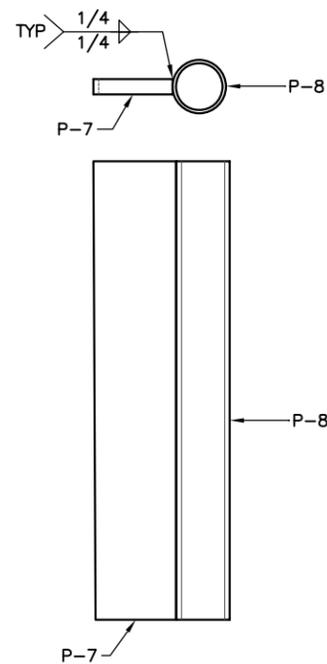
SHEET TITLE
ANCHOR ROD
INSTALLATION
DETAILS

SHEET NUMBER
S-5



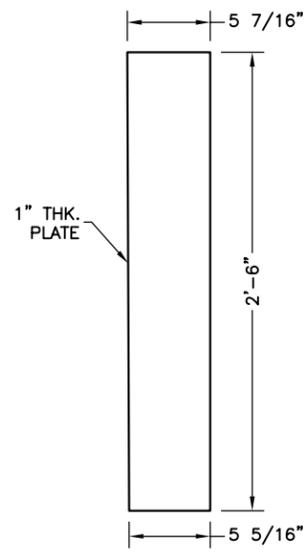
ANCHOR ROD SLEEVE WELD DETAIL
ELEVATION VIEW

1 SECTION
S-6 SCALE: 1"=1'-0"



ANCHOR ROD SLEEVE
TOP & SIDE VIEW

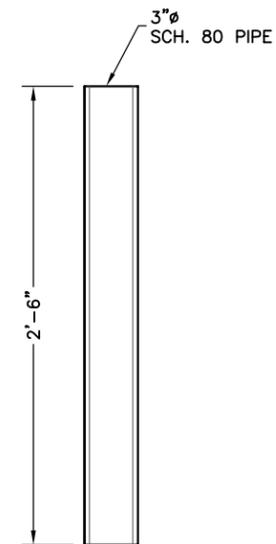
MK-1 DETAIL
S-6 SCALE: 1"=1'-0"



TRANSFER PLATE
SIDE VIEW

P-7 DETAIL
S-6 SCALE: 1"=1'-0"

MATERIAL LIST (MK-1)		
PART. NO.	QTY.	DESCRIPTION
P-7	4	TRANSFER PLATE
P-8	4	SLEEVE



SLEEVE
SIDE VIEW

P-8 DETAIL
S-6 SCALE: 1"=1'-0"

PREPARED BY:
FDH ENGINEERING
2730 ROWLAND RD.
RALEIGH, NC 27615
PHONE: (919) 755-1012
FAX: (919) 755-1031

PREPARED FOR:
SBA
5900 BROKEN SOUND PARKWAY, NW
BOCA RATON, FL 33487
(800) 487-SITE

FORBIDDEN TO REPRODUCE WITHOUT PERMISSION
STATE OF CONNECTICUT
Michael Murphy
No. 25842
LICENSED PROFESSIONAL ENGINEER
CHRISTOPHER M. MURPHY, P.E.
CONNECTICUT LIC. NO. 25842

DRAWN BY: VRT
CHECKED BY: BAB
ENG APPVD: CMM
PROJECT NO: 11-01248E S1

SUBMITTALS		
DATE	DESCRIPTION	REV
02/08/11	PRELIMINARY/REVIEW	A

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SHEET TITLE
ANCHOR ROD
DETAILS

SHEET NUMBER
S-6