Wednesday, September 15, 2021
Development Review Committee

DEVELOPMENT REVIEW COMMITTEE AGENDA
PUBLIC NOTICE is hereby given that the Development Review Committee of Spanish Fork, Utah, will hold a regular meeting in the City Council Chambers at the Spanish Fork City Office Building, 40 South Main Street, Spanish Fork, Utah, commencing at 10:00 a.m. This meeting is not available to attend virtually.

1. Preliminary Plat

Subject	**A. NORTH POINT PROPERTIES PLAT A. The proposal involves creating three (3) lots for an industrial subdivision located at 63 East 3450 North.**
Meeting	Sep 15, 2021 - Development Review Committee
Category	1. Preliminary Plat
Access	Public
Type	Action, Discussion

File Attachments
report.drc.northpointproperties.9-15-2021.pdf (947 KB)
planset.northpropertiesplata.8-4-2021.pdf (441 KB)

2. Conditional Use Permit

Subject	**A. HIGHWAY 6 2021 CELL TOWER MODIFICATION. The proposal involves upgrading equipment and adding additional equipment on an existing tower located at approximately 3815 East Highway 6.**
Meeting	Sep 15, 2021 - Development Review Committee
Category	2. Conditional Use Permit
Access	Public
Type	Action, Discussion

File Attachments
report.drc.3815eastcelltowermodify.9-15-2021.pdf (8,089 KB)
siteplan.highway62021celltowermodification.8-25-2021.pdf (630 KB)
plans.highway62021celltowermodification.8-25-2021.pdf (6,129 KB)
memo.1.highway62021celltowermodification.8-25-2021.pdf (171 KB)

3. Zone Change

Subject	**A. 300 NORTH DUPLEX ADDITION. The proposal involves changing the current zone from R-1-6 to R-3 with the Infill Overlay to allow for an additional duplex to be built on the property located at 455 East 300 North.**
Meeting	Sep 15, 2021 - Development Review Committee
Category	3. Zone Change
Access	Public
Type	Action, Discussion

File Attachments
report.drc.300northduplexaddition.9-15-2021.pdf (1,930 KB)
plan.300northduplexaddition.9-7-2021.pdf (6,902 KB)

4. Concept Review

Subject	**A. WILLOWBROOK. The proposal involves an industrial development located at approximately 1200 North 1100 East.**
Meeting	Sep 15, 2021 - Development Review Committee
Category	4. Concept Review
Access	Public
Type	Discussion

File Attachments
report.drc.willowbrookconcept.9-15-2021.pdf (1,481 KB)
plans.concept.willowbrook.8-26-2021.pdf (1,539 KB)

5. Discussion

Subject	**A. CENTRACOM. The proposal involves a building and fence enclosure to be located at 3652 East Highway 6.**
Meeting	Sep 15, 2021 - Development Review Committee
Category	5. Discussion
Access	Public
Type	Discussion

File Attachments
plans.centracom.9-15-2021.pdf (750 KB)

6. Adjourn



North Point Properties Plat A Preliminary Plat Approval Request

September 15, 2021, Development Review Committee.

Located at approximately 63 East 3450 North, including 7 acres.

The subject property is zoned I-1.

The applicant has requested Preliminary Plat approval for a development that includes three (3) industrial lots.

Recommendation

That the proposed Preliminary Plat be recommended for approval based on the following findings and subject to the following conditions:

Finding

1. That the application conforms to the City's General Plan Designation and Zoning Map.

Conditions

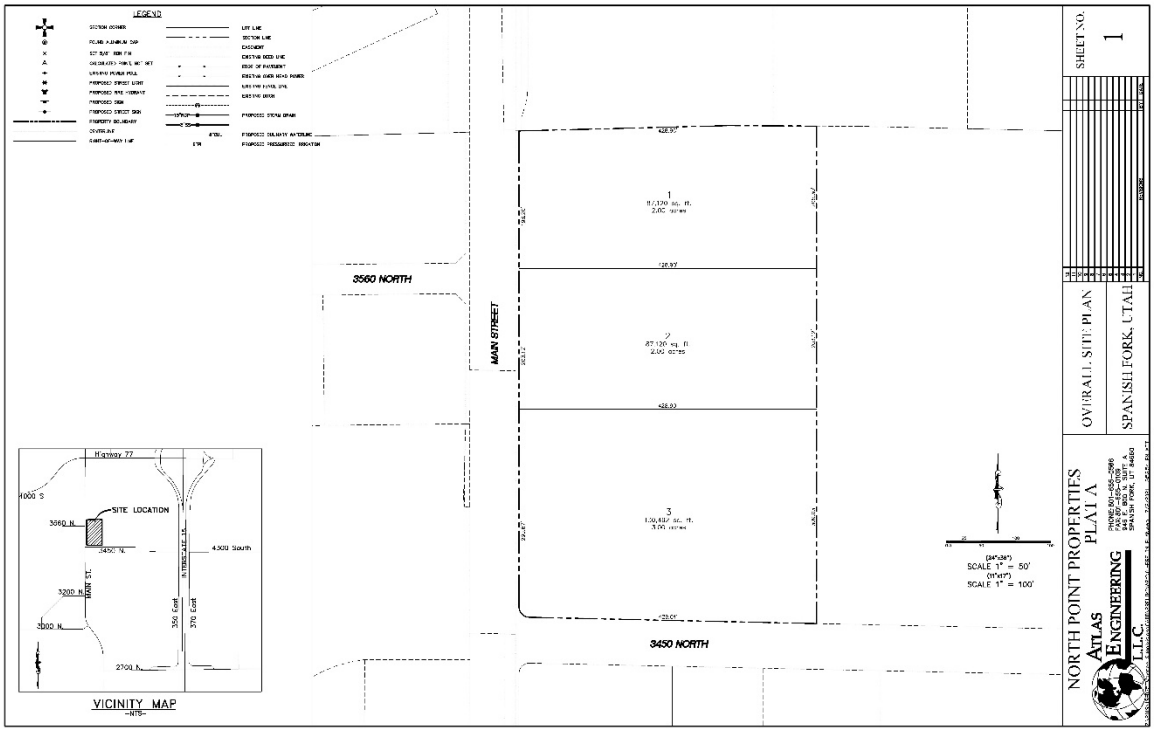
1. That the applicant meets the City's Zoning requirements and Construction Standards,
2. That the applicant addresses any red-lines.

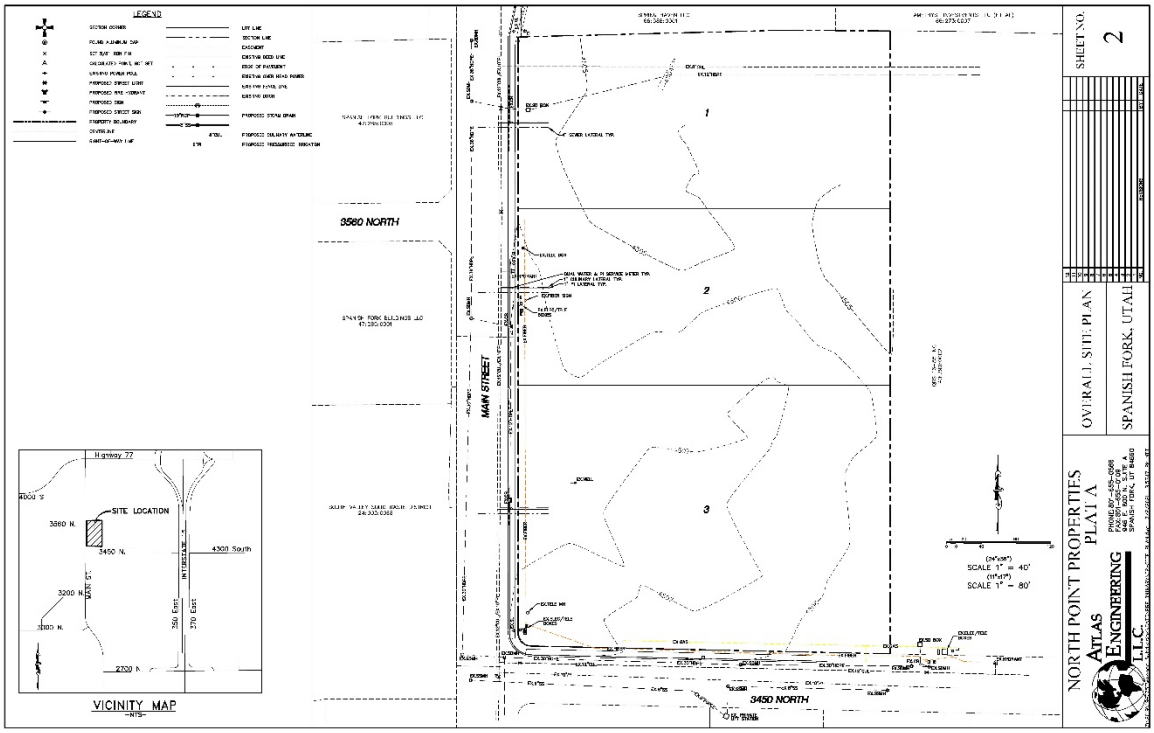
Key Issues

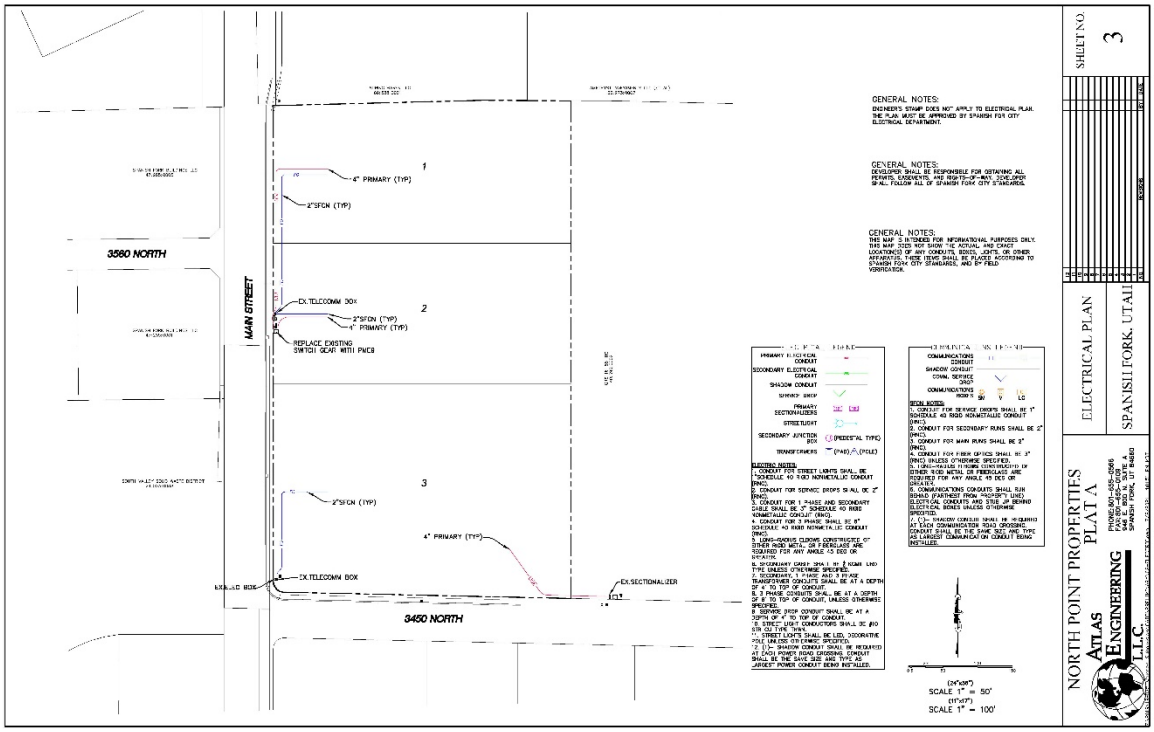
1. Utilities.

Exhibits

1. Plans.

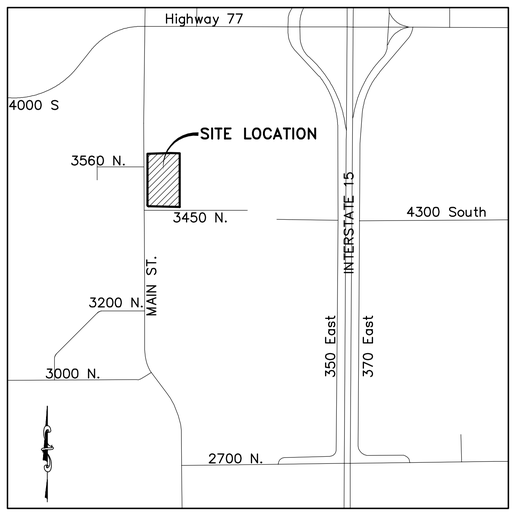

LEGEND
3560 NORTH
MAIN STREET
3450 NORTH
Highway 77
SITE LOCATION
4300 South
VICINITY MAP
-NTS-
SHEET NO. 1
OVERALL SITE PLAN
SPANISH FORK, UTAH
NORTH POINT PROPERTIES PLAT A
ATLAS ENGINEERING L.L.C.


LEGEND
3560 NORTH
MAIN STREET
3450 NORTH
Highway 77
SITE LOCATION
4300 South
VICINITY MAP
-NTS-
SHEET NO. 2
OVERALL SITE PLAN
SPANISH FORK, UTAH
NORTH POINT PROPERTIES PLAT A
ATLAS ENGINEERING L.L.C.


3580 NORTH
MAIN STREET
3450 NORTH
4" PRIMARY (TYP)
2"SFCN (TYP)
EX.TELECOMM BOX
2"SFCN (TYP)
1" PRIMARY (TYP)
REPLACE EXISTING SWITCH GEAR WITH PMC8
2"SFCN (TYP)
4" PRIMARY (TYP)
EX.TELECOMM BOX
EX.SECTIONALIZER
GENERAL NOTES:
ENGINEER'S STAMP DOES NOT APPLY TO ELECTRICAL PLAN. THE PLAN MUST BE APPROVED BY SPANISH FORK CITY ELECTRICAL DEPARTMENT.
GENERAL NOTES:
DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, EASEMENTS, AND RIGHTS-OF-WAY. SCHEDULING SHALL FOLLOW ALL OF SPANISH FORK CITY STANDARDS.
GENERAL NOTES:
THIS MAP IS INTENDED FOR INFORMATIONAL PURPOSES ONLY. THIS MAP DOES NOT SHOW THE ACTUAL AND EXACT LOCATIONS OF ANY CONDUITS, BOXES, LIGHTS, OR OTHER EQUIPMENT. ALL WORK SHOWN SHALL BE INSTALLED ACCORDING TO SPANISH FORK CITY STANDARDS, AND BY FIELD VERIFICATION.
PRIMARY ELECTRICAL CONDUIT
SECONDARY ELECTRICAL CONDUIT
SHADOW CONDUIT
STREETLIGHT
SECONDARY JUNCTION BOX (PEDESTAL TYPE)
TRANSFORMERS (PAD), (POLE)
ELECTRIC NOTES:
1. CONDUIT FOR STREET LIGHTS SHALL BE SCHEDULE 40 RIGID NONMETALLIC CONDUIT (RNC).
2. CONDUIT FOR SERVICE DROPS SHALL BE 2" (RNC).
3. CONDUIT FOR 1 PHASE AND SECONDARY CABLE SHALL BE 3" SCHEDULE 40 RIGID NONMETALLIC CONDUIT (RNC).
4. CONDUIT FOR 3 PHASE SHALL BE 6". SCHEDULE 40 RIGID NONMETALLIC CONDUIT (RNC).
5. LONG-RADIUS SWEEPS CONSTRUCTED OF FACTORY ELBOWS OR FIELD BENDS ARE REQUIRED FOR ANY ANGLE 45 DEG OR GREATER.
6. SECONDARY CABLE SHALL BE 2 NEMA LND TYPE UNLESS OTHERWISE SPECIFIED.
7. SECONDARY, 1 PHASE AND 3 PHASE TRANSFORMER CONDUITS SHALL BE AT A DEPTH OF 36" TO TOP OF CONDUIT.
8. SERVICE DROP CONDUIT SHALL BE AT A DEPTH OF 8" TO TOP OF CONDUIT.
9. STREET LIGHT CONDUCTORS SHALL BE #10 AWG, TYPE THWN.
10. STREET LIGHTS SHALL BE LED, DECORATIVE POLE UNLESS OTHERWISE SPECIFIED.
11. SHADOW CONDUIT SHALL BE REQUIRED AT EACH POWER ROAD CROSSING. CONDUIT SHALL BE THE SAME SIZE AND TYPE AS LARGEST POWER CONDUIT BEING INSTALLED.
COMMUNICATIONS CONDUIT
SHADOW CONDUIT
COMM. SERVICE DROP
COMMUNICATIONS BOX
RISER NOTES:
1. CONDUIT FOR SERVICE DROPS SHALL BE 1" SCHEDULE 40 RIGID NONMETALLIC CONDUIT (RNC).
2. CONDUIT FOR SECONDARY RUNS SHALL BE 2" (RNC).
3. CONDUIT FOR MAIN RUNS SHALL BE 3" (RNC).
4. CONDUIT FOR FIBER OPTICS SHALL BE 2" (RNC) UNLESS OTHERWISE SPECIFIED.
5. LONG-RADIUS SWEEPS CONSTRUCTED OF EITHER RIGID METAL OR FIBERGLASS ARE REQUIRED FOR ANY ANGLE 45 DEG OR GREATER.
6. COMMUNICATIONS CONDUITS SHALL RUN SIDE-BY-SIDE (FARTHEST FROM "ROADWAY" LINE) ELECTRICAL CONDUITS AND STUB UP BEHIND ELECTRICAL BOXES UNLESS OTHERWISE SPECIFIED.
7. (C)= SHADOW CONDUIT SHALL BE REQUIRED AT EACH COMMUNICATION ROAD CROSSING. CONDUIT SHALL BE THE SAME SIZE AND TYPE AS LARGEST COMMUNICATION CONDUIT BEING INSTALLED.
(24"x36")
SCALE 1" = 50'
(11"x17")
SCALE 1" = 100'
SHEET NO. 3
ELECTRICAL PLAN
SPANISH FORK, UTAH
NORTH POINT PROPERTIES PLAT A
ATLAS ENGINEERING L.L.C.
PHONE:801-655-0866
FAX:801-655-0867
SANDY, UTAH 84093

LEGEND

SECTION CORNER	LOT LINE
FOUND ALUMINUM CAP	SECTION LINE
SET 5/8" IRON PIN	EASEMENT
CALCULATED POINT, NOT SET	EXISTING DEED LINE
EXISTING POWER POLE	EDGE OF PAVEMENT
PROPOSED STREET LIGHT	EXISTING OVER HEAD POWER
PROPOSED FIRE HYDRANT	EXISTING FENCE LINE
PROPOSED SIGN	EXISTING DITCH
PROPOSED STREET SIGN	15"RCP — PROPOSED STORM DRAIN
PROPERTY BOUNDARY	8"SS —
CENTERLINE	8"CUL — PROPOSED CULINARY WATERLINE
RIGHT-OF-WAY LINE	6"PI — PROPOSED PRESSURIZED IRRIGATION



VICINITY MAP
-NTS-

3560 NORTH

MAIN STREET

1
87,120 sq. ft.
2.00 acres

2
87,120 sq. ft.
2.00 acres

3
130,492 sq. ft.
3.00 acres

428.96'
428.90'
428.90'
429.01'
198.20'
205.30'
203.12'
203.12'
299.67'
309.03'

3450 NORTH

0 5 25 50 100 150

(24"x36")
SCALE 1" = 50'
(11"x17")
SCALE 1" = 100'

SHEET NO. 1

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OVERALL SITE PLAN

SPANISH FORK, UTAH

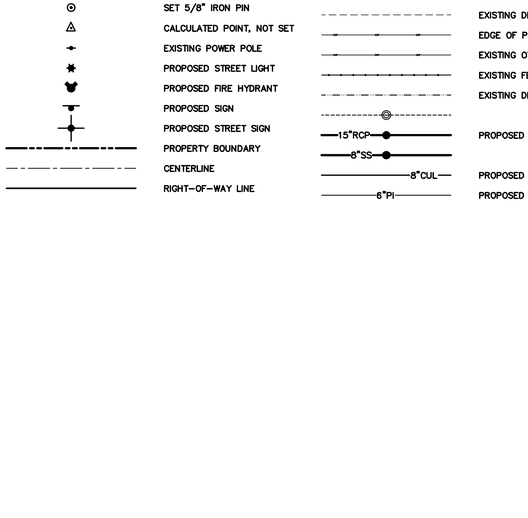
NORTH POINT PROPERTIES
PLAT A

ATLAS ENGINEERING L.L.C.
PHONE:801-655-0566
FAX:801-655-0109
946 E. 800 N. SUITE A
SPANISH FORK, UT 84660

Z:\2019\19-025 Warner Subdivision\CAD\PRELIMINARY\01-PRELIM PLAN.dwg 8/4/2021 4:36:15 PM MDT

LEGEND

SECTION CORNER	LOT LINE
FOUND ALUMINUM CAP	SECTION LINE
SET 5/8" IRON PIN	EASEMENT
CALCULATED POINT, NOT SET	EXISTING DEED LINE
EXISTING POWER POLE	EDGE OF PAVEMENT
PROPOSED STREET LIGHT	EXISTING OVER HEAD POWER
PROPOSED FIRE HYDRANT	EXISTING FENCE LINE
PROPOSED SIGN	EXISTING DITCH
PROPOSED STREET SIGN	PROPOSED STORM DRAIN
PROPERTY BOUNDARY	PROPOSED CULINARY WATERLINE
CENTERLINE	PROPOSED PRESSURIZED IRRIGATION
RIGHT-OF-WAY LINE	



VICINITY MAP
-NTS-

SPANISH FORK BUILDINGS LLC
47:285:0005

SPANISH FORK BUILDINGS LLC
47:285:0001

SOUTH VALLEY SOLID WASTE DISTRICT
24:003:0068

SPRING HAVEN LLC
66:588:0001

AMETHYST INVESTMENTS LLC (ET AL)
66:273:0007

QRS 16-85 INC
40:390:0002

3560 NORTH

MAIN STREET

3450 NORTH

10' WATERLINE EASEMENT
EX.8"CUL
EX.12"HDPE
10' STORM DRAIN EASEMENT
4" SEWER LATERAL TYP.
EX.SD BOX
EX.TELE BOX
EX.HYDRANT
DUAL WATER & PI SERVICE METER TYP.
1" CULINARY LATERAL TYP.
1" PI LATERAL TYP.
EX.FIBER SIGN
EX.ELEC/TELE BOXES
EX.WELL
EX.TELE MH
EX.GAS
EX.HYDRANT
EX.PRIVATE LIFT STATION

EX.SDMH
EX.36"HDPE
EX.12"CUL/EX.10"PI
EX.CB
EX.SL
EX.FIBER
EX.30"HDPE
EX.12"CUL
EX.10"PI
EX.6"SS
EX.8"SS
EX.6"FORCE
EX.SSMH

4505
4506
4507

1
2
3

5 0 10 20 40 80 120

(24"x36")
SCALE 1" = 40'
(11"x17")
SCALE 1" = 80'

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SHEET NO. 2

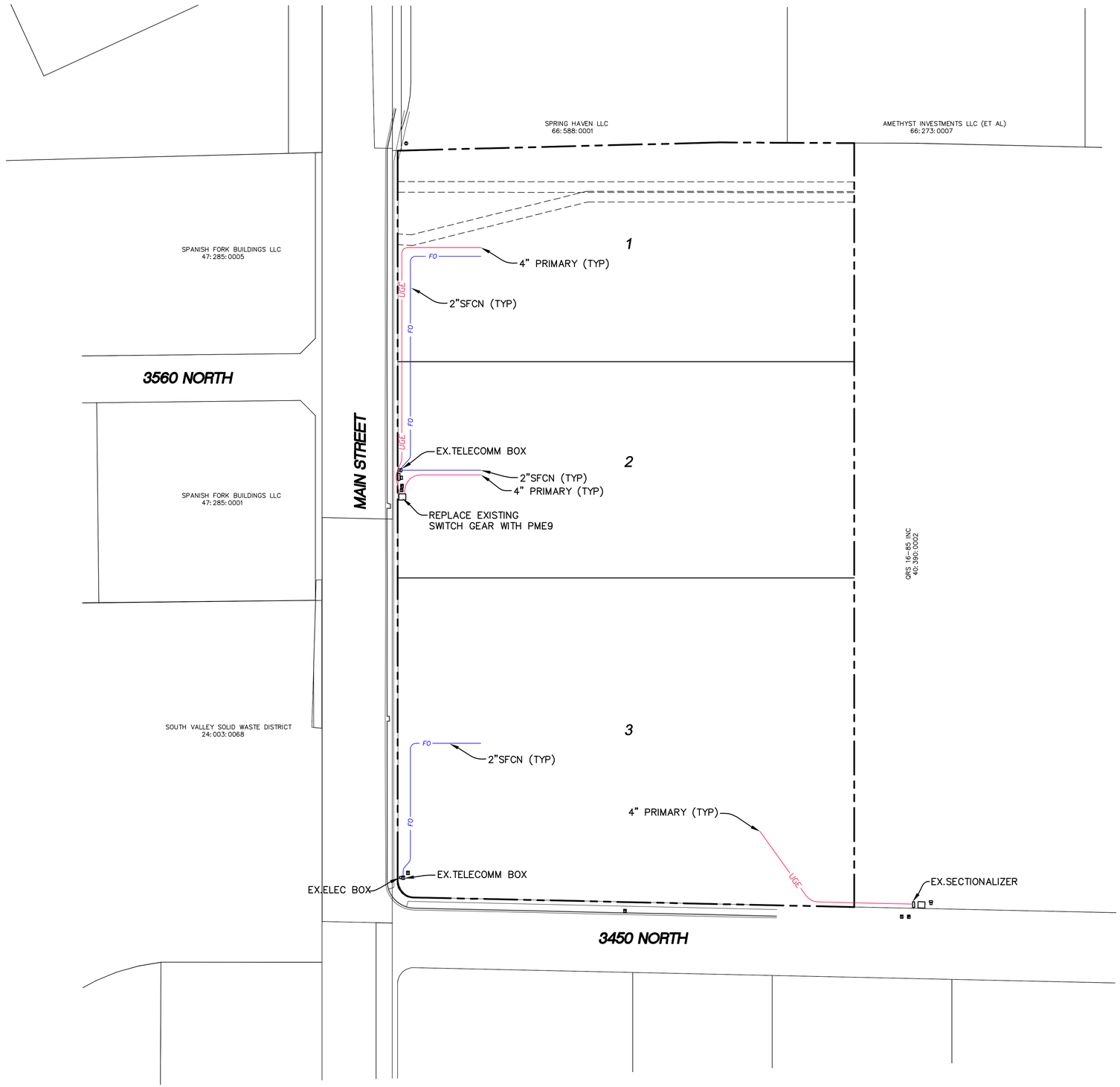
OVERALL SITE PLAN

SPANISH FORK, UTAH

NORTH POINT PROPERTIES
PLAT A

ATLAS ENGINEERING L.L.C.
PHONE: 801-655-0566
FAX: 801-655-0109
946 E. 800 N. SUITE A
SPANISH FORK, UT 84660

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GENERAL NOTES:
ENGINEER'S STAMP DOES NOT APPLY TO ELECTRICAL PLAN. THE PLAN MUST BE APPROVED BY SPANISH FOR CITY ELECTRICAL DEPARTMENT.

GENERAL NOTES:
DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, EASEMENTS, AND RIGHTS-OF-WAY. DEVELOPER SHALL FOLLOW ALL OF SPANISH FORK CITY STANDARDS.

GENERAL NOTES:
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ELECTRICAL LEGEND

- PRIMARY ELECTRICAL CONDUIT — UGE
- SECONDARY ELECTRICAL CONDUIT — UGE
- SHADOW CONDUIT
- SERVICE DROP
- PRIMARY SECTIONALIZERS (1Ø) (3Ø)
- STREETLIGHT
- SECONDARY JUNCTION BOX (PEDESTAL TYPE)
- TRANSFORMERS (PAD) (POLE)

ELECTRIC NOTES:
1. CONDUIT FOR STREET LIGHTS SHALL BE 1"SCHEDULE 40 RIGID NONMETALLIC CONDUIT (RNC).
2. CONDUIT FOR SERVICE DROPS SHALL BE 2" (RNC).
3. CONDUIT FOR 1 PHASE AND SECONDARY CABLE SHALL BE 3" SCHEDULE 40 RIGID NONMETALLIC CONDUIT (RNC).
4. CONDUIT FOR 3 PHASE SHALL BE 6" SCHEDULE 40 RIGID NONMETALLIC CONDUIT (RNC).
5. LONG-RADIUS ELBOWS CONSTRUCTED OF EITHER RIGID METAL OR FIBERGLASS ARE REQUIRED FOR ANY ANGLE 45 DEG OR GREATER.
6. SECONDARY CABLE SHALL BE 4/0 KCMIL URD TYPE UNLESS OTHERWISE SPECIFIED.
7. SECONDARY, 1 PHASE AND 3 PHASE TRANSFORMER CONDUITS SHALL BE AT A DEPTH OF 4' TO TOP OF CONDUIT.
8. 3 PHASE CONDUITS SHALL BE AT A DEPTH OF 6' TO TOP OF CONDUIT, UNLESS OTHERWISE SPECIFIED.
9. SERVICE DROP CONDUIT SHALL BE AT A DEPTH OF 4' TO TOP OF CONDUIT.
10. STREET LIGHT CONDUCTORS SHALL BE #10 STR CU TYPE THWN.
11. STREET LIGHTS SHALL BE LED, DECORATIVE POLE UNLESS OTHERWISE SPECIFIED.
12. (1)- SHADOW CONDUIT SHALL BE REQUIRED AT EACH POWER ROAD CROSSING. CONDUIT SHALL BE THE SAME SIZE AND TYPE AS LARGEST POWER CONDUIT BEING INSTALLED.

COMMUNICATIONS LEGEND

- COMMUNICATIONS CONDUIT — FO — FO —
- SHADOW CONDUIT
- COMM. SERVICE DROP
- COMMUNICATIONS BOXES SM M LG

SFCN NOTES:
1. CONDUIT FOR SERVICE DROPS SHALL BE 1" SCHEDULE 40 RIGID NONMETALLIC CONDUIT (RNC).
2. CONDUIT FOR SECONDARY RUNS SHALL BE 2" (RNC).
3. CONDUIT FOR MAIN RUNS SHALL BE 2" (RNC).
4. CONDUIT FOR FIBER OPTICS SHALL BE 3" (RNC) UNLESS OTHERWISE SPECIFIED.
5. LONG-RADIUS ELBOWS CONSTRUCTED OF EITHER RIGID METAL OR FIBERGLASS ARE REQUIRED FOR ANY ANGLE 45 DEG OR GREATER.
6. COMMUNICATIONS CONDUITS SHALL RUN BEHIND (FARTHEST FROM PROPERTY LINE) ELECTRICAL CONDUITS AND STUB UP BEHIND ELECTRICAL BOXES UNLESS OTHERWISE SPECIFIED.
7. (1)- SHADOW CONDUIT SHALL BE REQUIRED AT EACH COMMUNICATION ROAD CROSSING. CONDUIT SHALL BE THE SAME SIZE AND TYPE AS LARGEST COMMUNICATION CONDUIT BEING INSTALLED.

0 25 50 100 150

(24"x36")
SCALE 1" = 50'
(11"x17")
SCALE 1" = 100'

SHEET NO. 3

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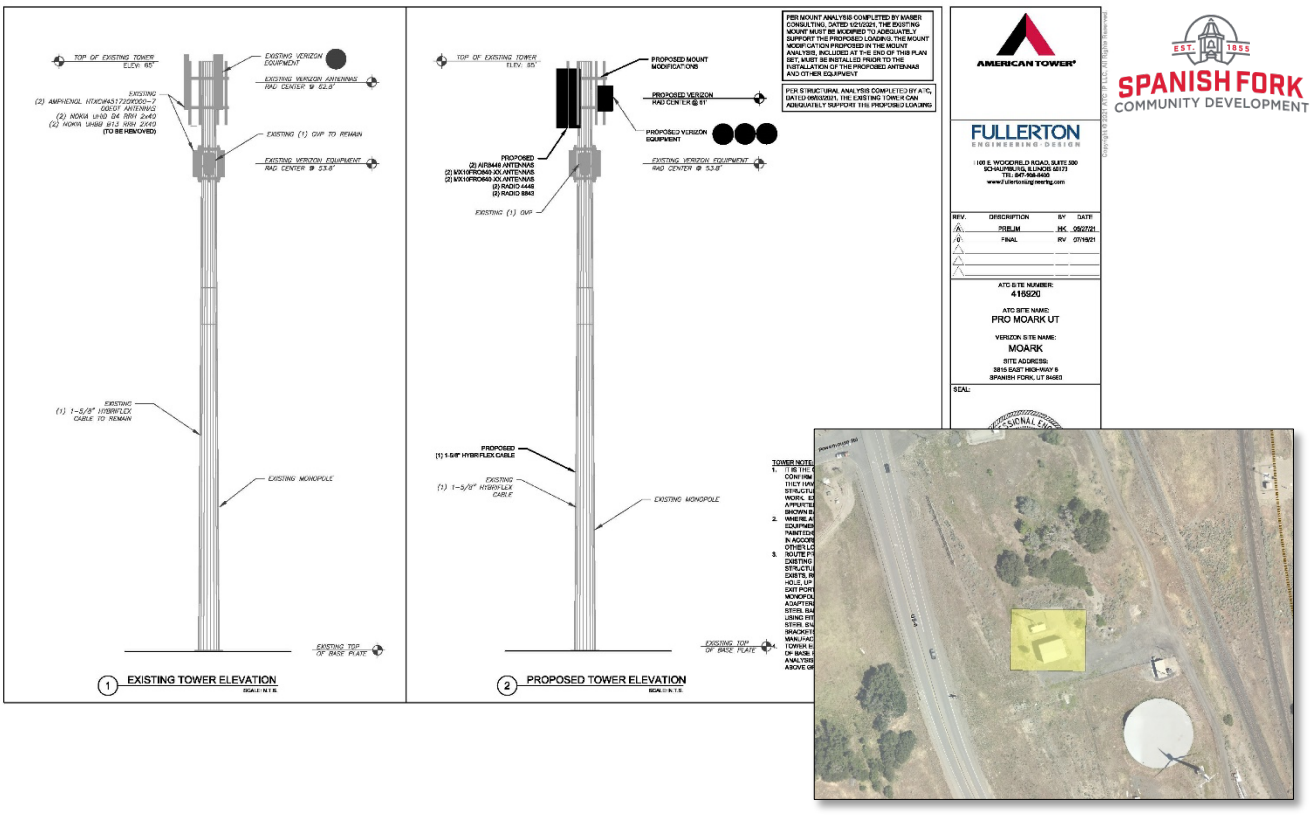
ELECTRICAL PLAN

SPANISH FORK, UTAH

NORTH POINT PROPERTIES
PLAT A

ATLAS ENGINEERING L.L.C.
PHONE: 801-655-0566
FAX: 801-655-0109
946 E. 800 N. SUITE A
SPANISH FORK, UT 84660

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Highway 6 2021 Cell Tower Modification
Conditional Use Permit Request

September 15, 2021, Development Review Committee.

Located at 3815 East Highway 6.

The subject property is zoned P-F.

The applicant has requested that a conditional use permit be approved to allow for additional equipment on an existing tower.

Recommendation

That the proposed Conditional Use Permit be recommended for approval based on the following finding and subject to the following conditions:

Findings

1. That the project conforms to the City's Zoning Map.

Conditions

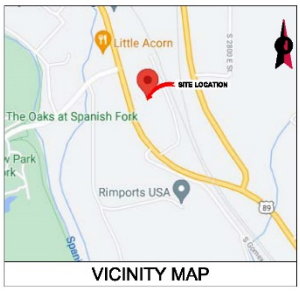
1. That the applicant meets the City's Zoning requirements and Construction Standards.
2. That the applicant addresses any red-lines.

Key Issues

1. None.

Exhibits

1. Plans.
2. Site Photo.



VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: PRO MOARK UT
ATC SITE NUMBER: 416920
VERIZON SITE NAME: MOARK
VERIZON SITE NUMBER:193015
SITE ADDRESS: 3815 EAST HIGHWAY 6
SPANISH FORK, UT 84660



LOCATION MAP

VERIZON
ANTENNA AMENDMENT DRAWINGS

COMPLIANCE CODE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. 2018 INTERNATIONAL BUILDING CODE (IBC)
2. 2017 NATIONAL ELECTRIC CODE (NEC)
3. LOCAL BUILDING CODE
4. CITY/COUNTY ORDINANCES

UTILITY COMPANIES

POWER COMPANY: TBD
PHONE: TBD

TELEPHONE COMPANY: UNKNOWN
PHONE: ()-

811
Know what's below.
Call before you dig.

PROJECT SUMMARY

SITE ADDRESS:
3815 EAST HIGHWAY 6
SPANISH FORK, UT 84660
COUNTY: UTAH
GEOGRAPHIC COORDINATES:
LATITUDE: 40.085172
LONGITUDE: -111.691589
GROUND ELEVATION: 4803' AMSL

PROJECT TEAM

TOWER OWNER:
AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

APPLICANT:
VERIZON WIRELESS

ENGINEER:
FULLERTON ENGINEERING CONSULTANTS, LLC
1100 E. WOODFIELD ROAD, SUITE 600
SCHAUMBURG, IL 60173

PROPERTY OWNER:
-

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:

REMOVE (2) ANTENNA(s) AND (4) RRH(s)

INSTALL (6) ANTENNA(s), (4) RRH(s), MOUNT MODIFICATIONS AND (1) 1-5/8" HYBRID CABLE

EXISTING (1) OVP AND (1) 1-5/8" HYBRID CABLE TO REMAIN

PROJECT NOTES

1. THE FACILITY IS UNMANNED.
2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
5. HANDICAP ACCESS IS NOT REQUIRED.

PROJECT LOCATION DIRECTIONS

SPANISH FORK AIRPORT
HEAD SOUTH ON W 2000 N ST TOWARD S 200 WIN 300 W
TURN RIGHT ONTO N MAIN ST
TURN LEFT ONTO E 1900 E
TURN RIGHT ONTO US-6 E
PASS BY CULVER'S (ON THE RIGHT)
TURN LEFT DESTINATION WILL BE ON THE LEFT

SHEET INDEX

SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
G-001	TITLE SHEET	0	07/16/21	RV
G-002	GENERAL NOTES	0	07/16/21	RV
C-101	DETAILED SITE PLAN	0	07/16/21	RV
C-201	TOWER ELEVATION	0	07/16/21	RV
C-401	ANTENNA INFORMATION & SCHEDULE	0	07/16/21	RV
C-601	CONSTRUCTION DETAILS	0	07/16/21	RV
E-601	GROUNDING DETAILS	0	07/16/21	RV
	RFDS			
	MOUNT MODIFICATION DRAWINGS			

AMERICAN TOWER®

FULLERTON ENGINEERING · DESIGN
1100 E. WOODFIELD ROAD, SUITE 600
SCHAUMBURG, ILLINOIS 60173
TEL: 847-908-8400
www.FullertonEngineering.com

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REV.	DESCRIPTION	BY	DATE
A	PRELIM	HK	05/27/21
0	FINAL	RV	07/16/21

ATC SITE NUMBER:
416920

ATC SITE NAME:
PRO MOARK UT

VERIZON SITE NAME:
MOARK

SITE ADDRESS:
3815 EAST HIGHWAY 6
SPANISH FORK, UT 84660

SEAL:

PROFESSIONAL ENGINEER
No. 10593217
MICHAEL LEEPER
STATE OF UTAH

verizon

DATE DRAWN:	05/27/2021
ATC JOB NO:	13657562
CUSTOMER ID:	MOARK
CUSTOMER #:	193015

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	0

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS. VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL:
   A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILDING/CONCRETE ONLY)
   B. ACETELCO INTERFACE BOX (FPC)
   C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILDING/CONCRETE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
   D. TOWERS, MONOPOLES
   E. TOWER LIGHTING
   F. GENERATORS & LIQUID PROPANE TANK
   G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
   H. ANTENNAS (INSTALLED BY OTHERS)
   I. TRANSMISSION LINE
   J. TRANSMISSION LINE JUMPERS
   K. TRANSMISSION LINE CONNECTORS WITH WRAP-I REPROOFING KITS
   L. TRANSMISSION LINE GROUND KITS
   M. HANGERS
   N. EXISTING GRIDS
   O. RTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL, SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR HOT DIP GALVANIZED GROUND RODS, BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR LADDER MOUNTS AND ANY OTHER MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF VERIZON TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT "LOCAL 811" FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COORDINATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PURCHASED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.
22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY VERIZON REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR TO THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THIS TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
32. VERIZON FURNISHED EQUIPMENT SHALL BE PICKED UP AT THE VERIZON WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
33. VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
   A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TESTING CO-ORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
   B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND VERIZON SPECIFICATIONS.
   C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
   D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
   E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING AGILENT/HEWLETT-PACKARD 8753ES RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER/FDR TESTS RESULTS TO THE PROJECT MANAGER. DAISY-CHAIN TEST SHALL BE AS PER ATTACHED RFS "ANRAXIS" FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 1/99/03. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE SIGNED AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
   F. INSTALL COAXIAL CABLES AND TERMINATIONS BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
   G. ANTENNA AND COAXIAL CABLE GROUNDING:
2. ALL EXTERIOR #6 STRAND GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/MPLUSE WEATHERPROOFING KIT 2021210 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITH BENDS)

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

AMERICAN TOWER®

FULLERTON ENGINEERING · DESIGN
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TEL: 847-908-8400
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REV.	DESCRIPTION	BY	DATE
A	PRELIM	HK	05/27/21
0	FINAL	RV	07/16/21

ATC SITE NUMBER:
416920

ATC SITE NAME:
PRO MOARK UT

VERIZON SITE NAME:
MOARK

SITE ADDRESS:
3815 EAST HIGHWAY 6
SPANISH FORK, UT 84660

SEAL:

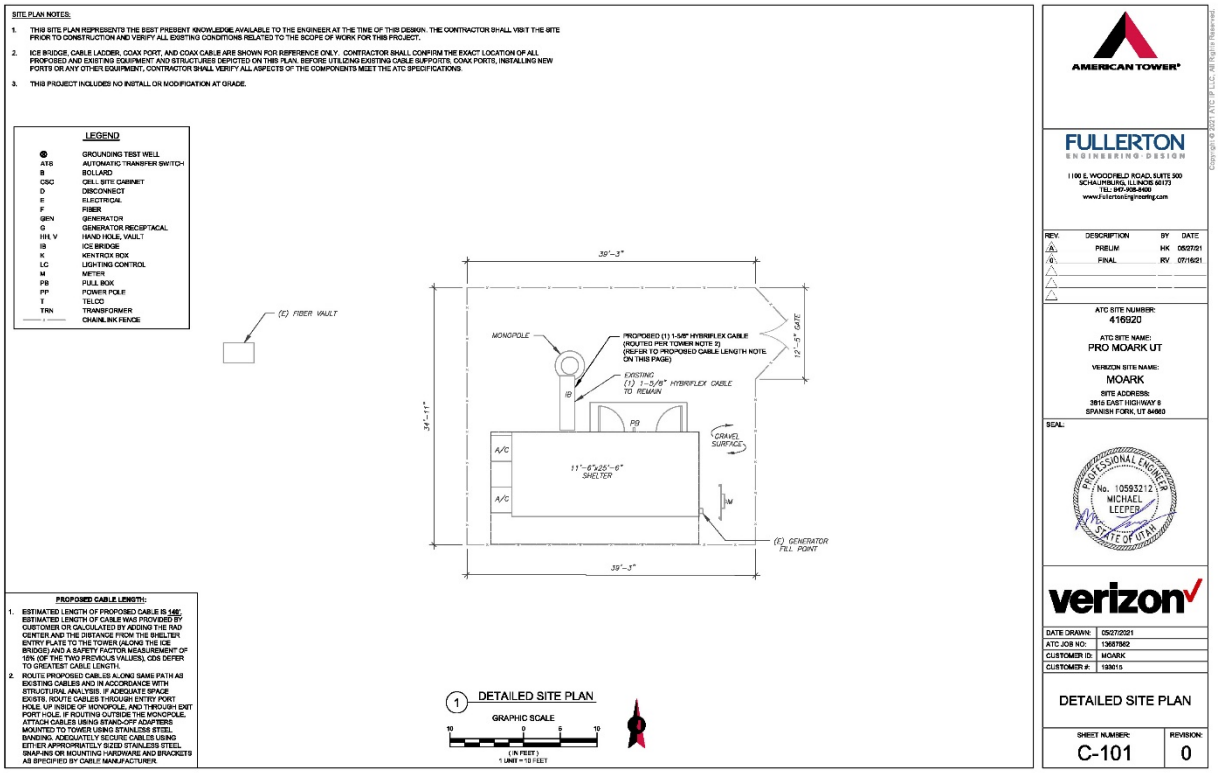
PROFESSIONAL ENGINEER
No. 10593217
MICHAEL LEEPER
STATE OF UTAH

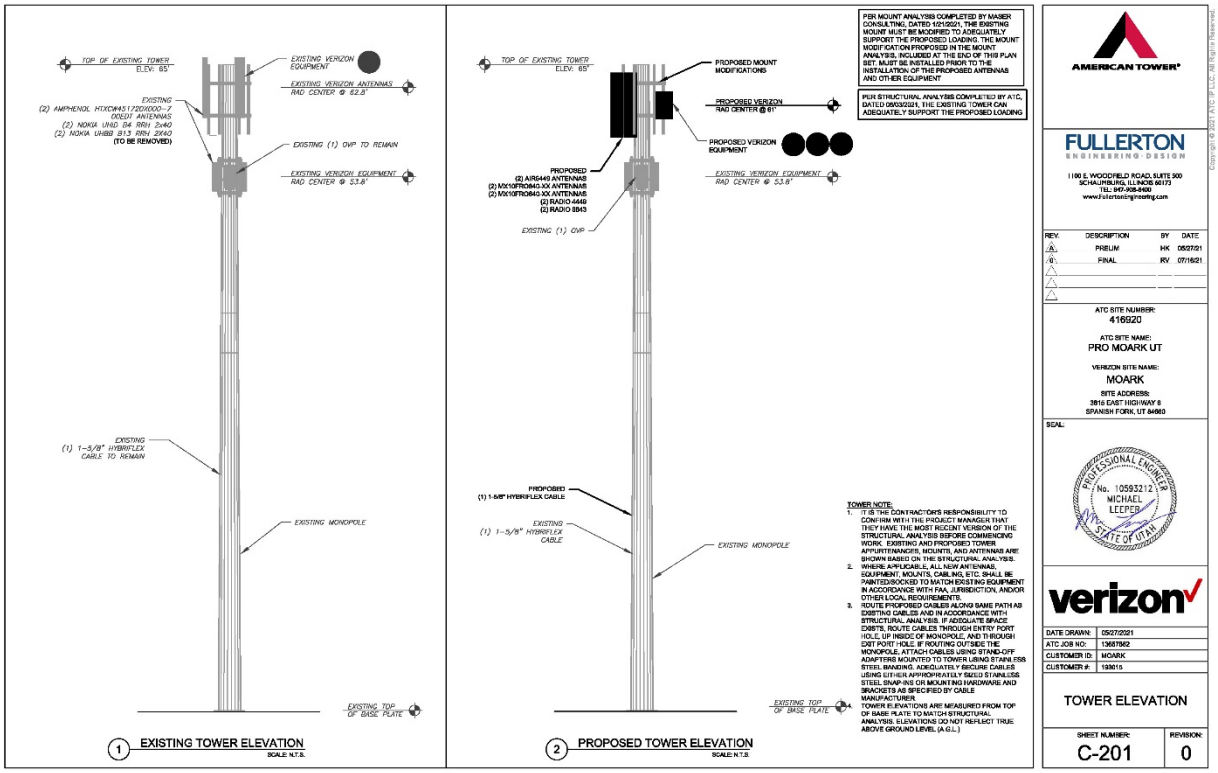
verizon

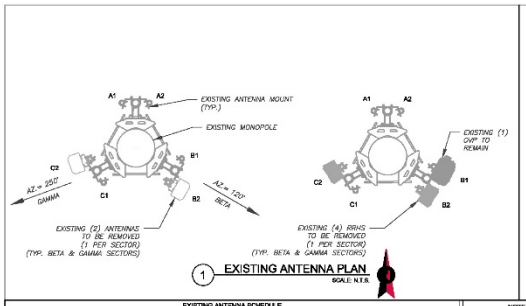
DATE DRAWN:	05/27/2021
ATC JOB NO:	13657562
CUSTOMER ID:	MOARK
CUSTOMER #:	193015

GENERAL NOTES

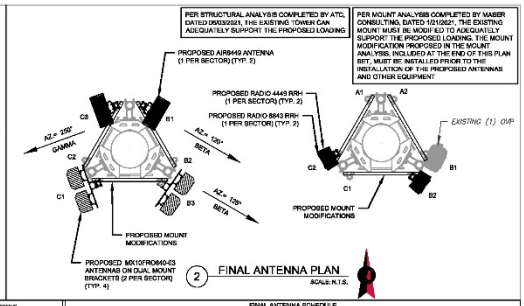
SHEET NUMBER:	REVISION:
G-002	0


SITE PLAN NOTES:
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.
LEGEND
GROUNDING TEST WELL
ATS AUTOMATIC TRANSFER SWITCH
B BOLLARD
CBC CELL SITE CABINET
D DISCONNECT
E ELECTRICAL
F FIBER
GEN GENERATOR
G GENERATOR RECEPTACAL
H/H, V HAND HOLE, VAULT
IB ICE BRIDGE
K KENTROX BOX
LC LIGHTING CONTROL
M METER
PB PULL BOX
PP POWER POLE
T TELCO
TRN TRANSFORMER
CHAINLINK FENCE
(E) FIBER VAULT
39'-3"
MONOPOLE
PROPOSED (1) 1-5/8" HYBRIFLEX CABLE (ROUTED PER TOWER NOTE 2) (REFER TO PROPOSED CABLE LENGTH NOTE ON THIS PAGE)
EXISTING (1) 1-5/8" HYBRIFLEX CABLE TO REMAIN
IB
PB
A/C
A/C
11'-6"x25'-6" SHELTER
GRAVEL SURFACE
12'-5" GATE
34'-11"
(E) GENERATOR FILL POINT
39'-3"
PROPOSED CABLE LENGTH:
1. ESTIMATED LENGTH OF PROPOSED CABLE IS 140'. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES). CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
1 DETAILED SITE PLAN
GRAPHIC SCALE
10 0 5 10
(IN FEET)
1 UNIT = 10 FEET
AMERICAN TOWER
FULLERTON ENGINEERING · DESIGN
1100 E. WOODFIELD ROAD, SUITE 500
SCHAUMBURG, ILLINOIS 60173
TEL: 847-908-6400
www.fullertoneng.com
REV. DESCRIPTION BY DATE
A PRELIM HK 05/27/21
0 FINAL RV 07/16/21
ATC SITE NUMBER: 416920
ATC SITE NAME: PRO MOARK UT
VERIZON SITE NAME: MOARK
SITE ADDRESS: 3816 EAST HIGHWAY 8 SPANISH FORK, UT 84660
SEAL:
PROFESSIONAL ENGINEER No. 10593212 MICHAEL LEEPER STATE OF UTAH
verizon
DATE DRAWN: 05/27/2021
ATC JOB NO: 13687M2
CUSTOMER ID: MOARK
CUSTOMER #: 13801S
DETAILED SITE PLAN
SHEET NUMBER: C-101
REVISION: 0
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TOP OF EXISTING TOWER ELEV: 65'
EXISTING VERIZON EQUIPMENT
EXISTING VERIZON ANTENNAS RAD CENTER @ 62.8'
EXISTING (2) AMPHENOL HTXCW45172DX000-T OMDIT ANTENNAS (2) NOKIA UHD D4 RRH 2x40 (2) NOKIA UHBB B13 RRH 2X40 (TO BE REMOVED)
EXISTING (1) OVP TO REMAIN
EXISTING VERIZON EQUIPMENT RAD CENTER @ 53.8'
EXISTING (1) 1-5/8" HYBRIFLEX CABLE TO REMAIN
EXISTING MONOPOLE
EXISTING TOP OF BASE PLATE
1 EXISTING TOWER ELEVATION
SCALE: N.T.S.
TOP OF EXISTING TOWER ELEV: 65'
PROPOSED MOUNT MODIFICATIONS
PROPOSED VERIZON RAD CENTER @ 61'
PROPOSED VERIZON EQUIPMENT
EXISTING VERIZON EQUIPMENT RAD CENTER @ 53.8'
PROPOSED (2) AIR6449 ANTENNAS (2) MX10FRO640-XX ANTENNAS (2) MX10FRO640-XX ANTENNAS (2) RADIO 4449 (2) RADIO 8843
EXISTING (1) OVP
PROPOSED (1) 1-5/8" HYBRIFLEX CABLE
EXISTING (1) 1-5/8" HYBRIFLEX CABLE
EXISTING MONOPOLE
EXISTING TOP OF BASE PLATE
2 PROPOSED TOWER ELEVATION
SCALE: N.T.S.
PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING, DATED 10/1/2021, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.
PER STRUCTURAL ANALYSIS COMPLETED BY ATC, DATED 09/03/2021, THE EXISTING TOWER CAN ADEQUATELY SUPPORT THE PROPOSED LOADING
TOWER NOTE:
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/BOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
3. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)
AMERICAN TOWER
FULLERTON ENGINEERING · DESIGN
1100 E. WOODFIELD ROAD, SUITE 500
SCHAUMBURG, ILLINOIS 60173
TEL: 847-908-6400
www.fullertoneng.com
REV. DESCRIPTION BY DATE
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0 FINAL RV 07/16/21
ATC SITE NUMBER: 416920
ATC SITE NAME: PRO MOARK UT
VERIZON SITE NAME: MOARK
SITE ADDRESS: 3816 EAST HIGHWAY 8 SPANISH FORK, UT 84660
SEAL:
PROFESSIONAL ENGINEER No. 10593212 MICHAEL LEEPER STATE OF UTAH
verizon
DATE DRAWN: 05/27/2021
ATC JOB NO: 13687M2
CUSTOMER ID: MOARK
CUSTOMER #: 13801S
TOWER ELEVATION
SHEET NUMBER: C-201
REVISION: 0
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1 EXISTING ANTENNA PLAN
SCALE: N.T.S.



2 FINAL ANTENNA PLAN
SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	62.8'	0°	A1	–	–	–	–	–	–
			A2	–	–	–	–	–	–
BETA	62.8'	120°	B1	–	–	–	–	–	–
			B2	AMPHENOL HTXDW451720X000	LAWS/L700	0/8	–	–	–
	53.8'		–	–	–	–	–	UHBB 913 RRH 2X40 UHD 84 RRH 2X40	RMV RMV
GAMMA	62.8'	252°	C1	–	–	–	–	–	–
			C2	AMPHENOL HTXDW451720X000	LAWS/L700	0/8	–	–	–
	53.8'		–	–	–	–	–	UHBB 913 RRH 2X40 UHD 84 RRH 2X40	RMV RMV

NOTES

1. CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NEW CONFIGURATION (CONFIG). DO TO CAP ALL UNUSED PORTS.
2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

STATUS ABBREVIATIONS

RMV: TO BE REMOVED
RMN: TO REMAIN
RELL: TO BE RELOCATED
ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS
JUNCTION BOX TO RRU: 15'
RRU TO ANTENNA: 10'

FINAL ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
BETA	61'	120°	B1	ERICSSON AIR 6449 B77D	L 700/L 850/L AWS/L AWS 3	0/2	ADD	-	-
			B2	-	-	-	-	-	-
		125°	B3	JMA MX10FRO840-XX	L 700/L 850/L AWS/L AWS 3	0/4	ADD	-	-
				JMA MX10FRO840-XX	L 700/L 850/L AWS/L AWS 3	0/4	ADD	-	-
	53.8'	-	-	-	-	-	-	RADIO 4449 RADIO 8843	ADD ADD
GAMMA	61'	250°	C1	JMA MX10FRO840-XX	L 700/L 850/L AWS/L AWS 3	0/4	ADD	RADIO 8843	ADD
				JMA MX10FRO840-XX	L 700/L 850/L AWS/L AWS 3	0/4	ADD	RADIO 8843	ADD
			C2	-	-	-	-	-	-
			C3	ERICSSON AIR 6449 B77D	L 700/L 850/L AWS/L AWS 3	0/2	ADD	-	-
	53.8'	-	-	-	-	-	-	RADIO 4449 RADIO 8843	ADD ADD

EXISTING FIBER DISTRIBUTION/OVP BOX

MODEL NUMBER	STATUS
(1) RCMDC-6627-PF-48 OVP	RMN

EXISTING CABLING SUMMARY

COAX	HYBRID	STATUS
–	(1) 1-5/8" HYBRIFLEX	RMN

FINAL FIBER DISTRIBUTION / OVP BOX

MODEL NUMBER	STATUS
-	-
(1) RCMDC-6627-PF-48 OVP	RMN

FINAL CABLING SUMMARY

COAX	HYBRID	STATUS
-	(1) 1-5/8" HYBRIFLEX	ADD
–	(1) 1-5/8" HYBRIFLEX	RMN

AMERICAN TOWER®

FULLERTON ENGINEERING DESIGN
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www.fullertonengineering.com

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REV.	DESCRIPTION	BY	DATE
A	PRELIM	HK	05/27/21
0	FINAL	RV	07/16/21

ATC SITE NUMBER:
416020

ATC SITE NAME:
PRO MOARK UT

VERIZON SITE NAME:
MOARK

SITE ADDRESS:
3816 EAST HIGHWAY 8
SPANISH FORK, UT 84660

SEAL:

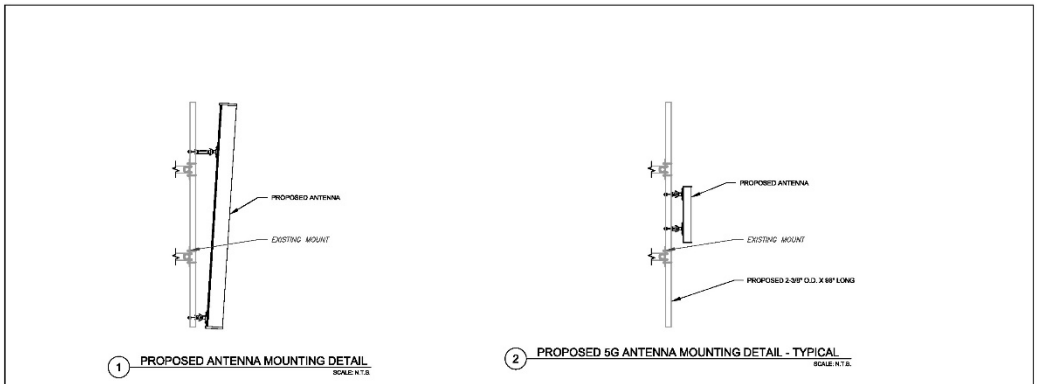
PROFESSIONAL ENGINEER — No. 10593212 — MICHAEL LEEPER — STATE OF UTAH

verizon

DATE DRAWN:	05/27/2021
ATC JOB NO:	13687562
CUSTOMER ID:	MOARK
CUSTOMER #:	13801b

ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0



1 PROPOSED ANTENNA MOUNTING DETAIL
SCALE: N.T.S.

2 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.

3 PROPOSED RRU MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.

AMERICAN TOWER®

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VERIZON SITE NAME:
MOARK

SITE ADDRESS:
3816 EAST HIGHWAY 8
SPANISH FORK, UT 84660

SEAL:

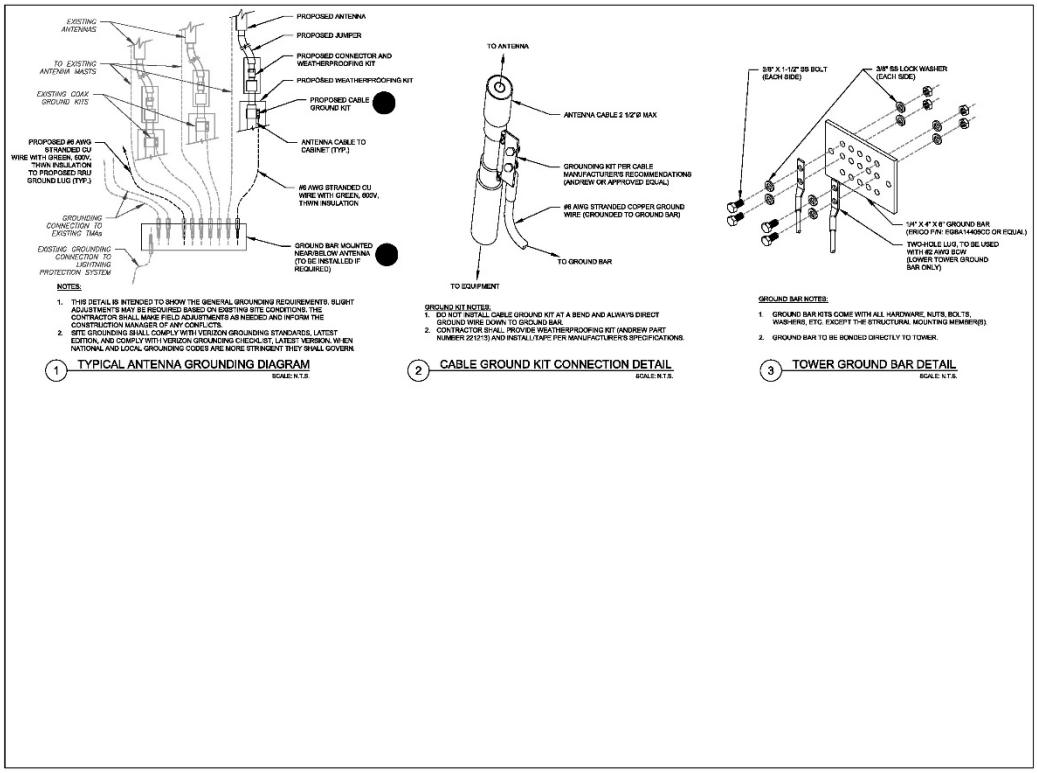
PROFESSIONAL ENGINEER — No. 10593212 — MICHAEL LEEPER — STATE OF UTAH

verizon

DATE DRAWN: 05/27/2021
ATC JOB NO: 13687562
CUSTOMER ID: MOARK
CUSTOMER #: 13801b

CONSTRUCTION DETAILS

SHEET NUMBER:	REVISION:
C-501	0



Antenna Summary

Added

700	850	1900	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity
LTE	LTE	LTE	LTE	LTE							JMA	MX10FRO640	61	63.9854166666	125(02)	true	true	PHYSICAL	2
LTE	LTE	LTE	LTE	LTE							JMA	MX10FRO840-xx	61	64.995833333	250(03)	true	true	PHYSICAL	2
											Ericsson	AIR6419	61	63.083333333	120(0002) 250(0003)	false	false	PHYSICAL	2

Removed

700	850	1900	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity
LTE											AMPHENOL	HTXCW451720X000-700EDT (141053)	62	65.5	120(02)	false	false	PHYSICAL	1
LTE											AMPHENOL	HTXCW451720X000-708EDT (197445)	62	65.5	250(03)	false	false	PHYSICAL	1
			LTE								AMPHENOL	HTXCW451720X000-AP0EDT (141062)	58	61.5	120(02)	false	false	PHYSICAL	1
			LTE								AMPHENOL	HTXCW451720X000-A5EDT (163330)	58	61.5	250(03)	false	false	PHYSICAL	1

Retained

700	850	1900	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity

No data available.

Added: 6 Removed: 4 Retained: 0

Equipment Summary

Added

Equipment Type	Location	700	850	1900	AWS	AWS3	28 GH	31 GHz	39 GH	CBRS	LAA	L-Sub	Make	Model	Cable Length	Cable Size	Install Type	Quantity
RRU	Tower	LTE	LTE										Ericsson	4449			PHYSICAL	2
RRU	Tower			LTE	LTE	LTE							Ericsson	8843			PHYSICAL	2
RRU	Tower												Ericsson	VZE01			PHYSICAL	2

Removed

Equipment Type	Location	700	850	1900	AWS	AWS3	28 GH	31 GHz	39 GH	CBRS	LAA	L-Sub	Make	Model	Cable Length	Cable Size	Install Type	Quantity
RRU	Tower	LTE											Nokia	UHBB B13 RRH 2x40			PHYSICAL	2
RRU	Tower				LTE								Nokia	UHID B4 RRH 2x40			PHYSICAL	2

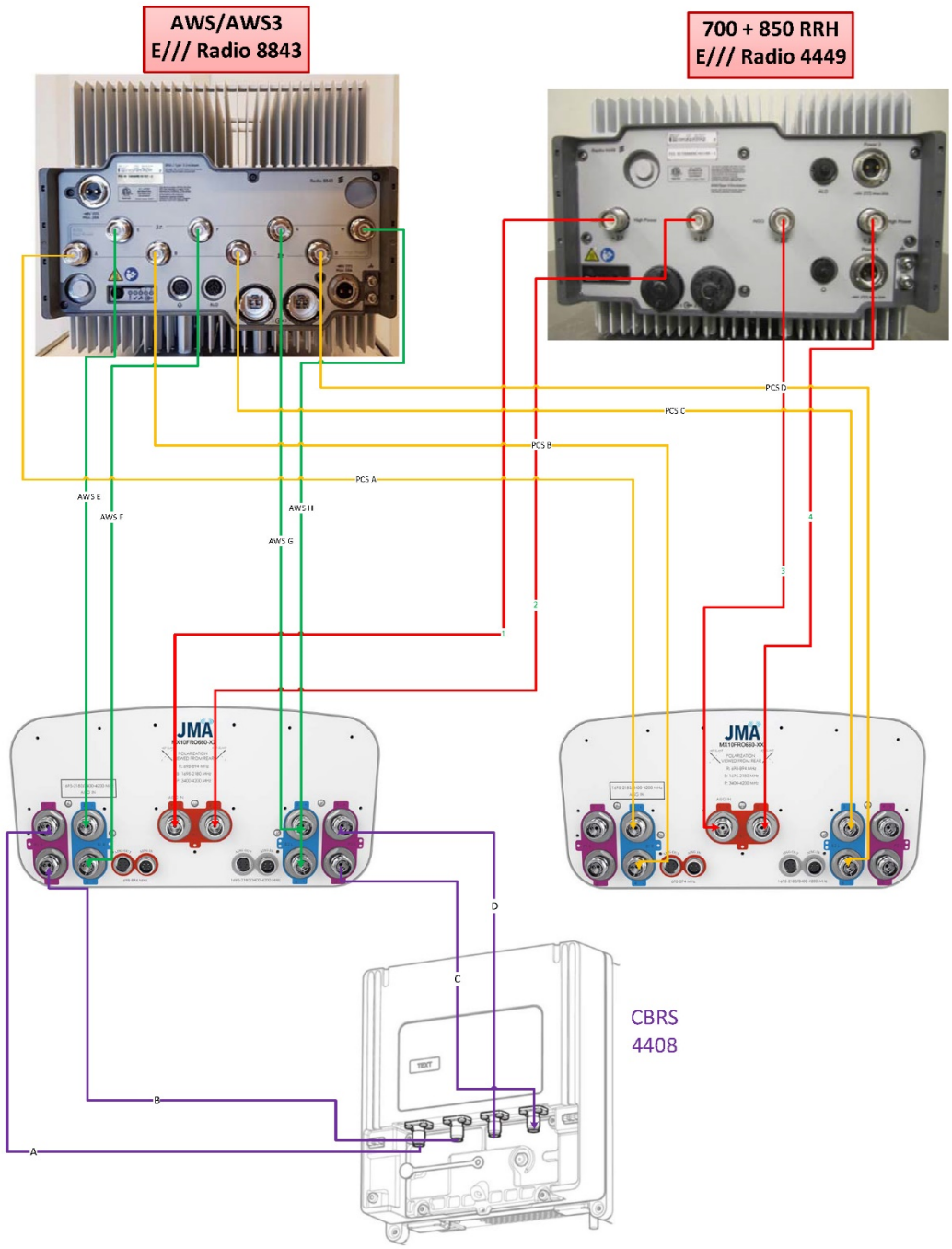
Retained

Equipment Type	Location	700	850	1900	AWS	AWS3	28 GH	31 GHz	39 GH	CBRS	LAA	L-Sub	Make	Model	Cable Length	Cable Size	Install Type	Quantity

No data available.

Proprietary and Confidential. Not for disclosure outside of Verizon.

JMA MX 10 FRO 4/6/8 60-XX
2x 10-Port Antennas + 2x RRHs per sector



PROJECT NOTES

1. SEE MODIFICATION NOTES
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
11. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

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verizon

MOUNT MODIFICATION DRAWINGS
EXISTING 1' SIDE ARM MOUNT

SITE NAME: MOARK
SITE NUMBER: 193015

3815 EAST HIGHWAY 6
SPANISH FORK, UT 84660
UTAH COUNTY

PROJECT INFORMATION

SITE INFORMATION	
LATITUDE:	40°05'52.19" N
LONGITUDE:	111°36'39.99" W
JURISDICTION	UTAH COUNTY
APPLICANT/LESSEE	
COMPANY	VERIZON WIRELESS
CLIENT REPRESENTATIVE	
COMPANY	VERIZON WIRELESS
ADDRESS	120 W/S 1 CENTRAL LANE
CITY, STATE, ZIP	TEMPE, AZ 85283
CONTACT	SABRINA LANCASTER
E-MAIL	SABRINA.LANCASTER@VERIZONWIRELESS.COM
PROJECT MANAGER	
COMPANY	MASER CONSULTING
CONTACT	KRISTIN ROSS
PHONE	(614) 686-1575
E-MAIL	KROSS@MASERCONSULTING.COM

SHEET INDEX

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CONTRACTOR PMI REQUIREMENTS

PMI LOCATION:	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #	10035003 & 10035018
VZW LOCATION CODE (PSLC)	193015
FUZE ID	1627324

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

REFERENCED DOCUMENTS

FAILING MOUNT ANALYSIS REPORT

SMART TOOL PROJECT #	10023733 & 10031427
MASER CONSULTING PROJECT #	2877916A
ANALYSIS DATE	8/27/2021

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

MASER CONSULTING
verizon

REGISTERED PROFESSIONAL ENGINEER
No. 11182129
DEJIAN XU
STATE OF UTAH
8/21/2021

SITE NAME:
MOARK
193015
3815 EAST HIGHWAY 6
SPANISH FORK, UT 84660
UTAH COUNTY

TITLE SHEET

T-1

BILL OF MATERIALS

VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
18	VZWSMART	VZWSMART-MSK1	CROSSOVER PLATE	

OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
9	-	-	48" LONG, P1.5 STD PIPE	GALVANIZED
2	-	-	102" LONG, P1.5 STD PIPE	GALVANIZED

NOTE: ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE	
CONTACT	SALVADOR ANGLIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGLIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(786) 235-7965 (O), (786) 982-9788 (P)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 897-6733
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 438-6937
EMAIL	AWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9860
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

NOTE: WHEN SPECIFIED, VZWSMART KITS SHALL BE REQUIRED AND WILL BE VERIFIED DURING THE DESKTOP PMI

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.
MASER CONSULTING
verizon
REGISTERED PROFESSIONAL ENGINEER
No. 11182129
DEJIAN XU
STATE OF UTAH
8/21/2021
SITE NAME:
MOARK
193015
3815 EAST HIGHWAY 6
SPANISH FORK, UT 84660
UTAH COUNTY

BILL OF MATERIALS

S-1

GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND WORKMANSHIP PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
6. 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 GENERAL CONTRACTOR. RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA-333 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION), INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30 MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
12. DO NOT SCALE DRAWINGS.
13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
15. THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

DESIGN LOADS

WIND LOADS

a. BASIC WIND SPEED (3 SECOND GUST), V = 103 MPH

b. EXPOSURE CATEGORY C

c. TOPOGRAPHIC CATEGORY 1

d. MEAN BASE ELEVATION (AMSL) = 4791.96'

ICE LOADS

a. ICE WIND SPEED (3 SECOND GUST), V = 40 MPH

b. ICE THICKNESS = 0.25 IN

SEISMIC LOADS

a. SHORT TERM MCER GROUND MOTION, S_s = 1.338

b. LONG TERM MCER GROUND MOTION, S_1 = 0.496

STRUCTURAL STEEL

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
   a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
   b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
   c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:

CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO KROSS@MASERCONSULTING.COM
   b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.3 REQUIREMENTS.
9. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
10. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS 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.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
13. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

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NEW JERSEY · PENNSYLVANIA · VIRGINIA · FLORIDA · NORTH CAROLINA · SOUTH CAROLINA · NEW HYDCO · OHIO · GEORGIA · TEXAS · TENNESSEE · COLORADO

verizon

REGISTERED PROFESSIONAL ENGINEER No. 11182129 DEJIAN XU STATE OF UTAH 10/21/2021

SITE NAME: MOARK DEPOT
881 S EARTHKHWAY 6
SPANISH FORK, UT 84660
UTAH COUNTY

MODIFICATION NOTES

S-2

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

MODIFICATION INSPECTION NOTES

MI CHECKLIST

CONSTRUCTION/ INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY EOR)	REPORT ITEM
	PRE-CONSTRUCTION
X	MI CHECKLIST DRAWING
X	EOR APPROVED SHOP DRAWINGS
NA	FABRICATION INSPECTION
NA	FABRICATOR CERTIFIED WELD INSPECTION
X	MATERIAL TEST REPORT (MTR)
NA	FABRICATOR NDE INSPECTION
X	PACKING SLIPS
ADDITIONAL TESTING AND INSPECTIONS:	
	CONSTRUCTION
X	CONSTRUCTION INSPECTIONS
NA	CONTRACTOR'S CERTIFIED WELD INSPECTION AND NDE REPORTS
X	ON SITE COLD GALVANIZING VERIFICATION
X	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS:	
	POST-CONSTRUCTION
X	MI INSPECTOR REDLINE OR RECORD DRAWING(S)
X	VZW PMI DOCUMENTS
X	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

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

THE MODIFICATION INSPECTION (MI) IS A VISUAL INSPECTION OF MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR).

THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, NOR DOES THE MI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES.

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.

MI INSPECTOR

THE MI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE MI TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST.
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS

THE MI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GC INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE MI REPORT TO EOR.

GENERAL CONTRACTOR

THE GC IS REQUIRED TO CONTACT THE MI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MI INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS

THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MI CHECKLIST.

RECOMMENDATIONS

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

- IT IS SUGGESTED THAT THE GC 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.
- IT MAY BE BENEFICIAL TO INSTALL ALL MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTIONS TO ALLOW THE FOUNDATION AND MI INSPECTION(S) TO COMMENCE WITH ONE SITE VISIT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON SITE DURING THE MI TO HAVE ANY 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.

CORRECTION OF FAILING MI'S

IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI (FAILED MI'), THE GC SHALL WORK WITH THE OWNER TO COORDINATE A REMEDIATION PLAN.

- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

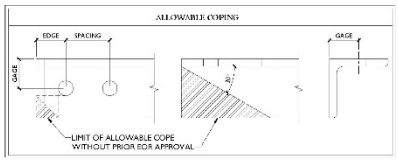
REQUIRED PHOTOS

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 INSPECTION CONDITION

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

ALLOWABLE COPING

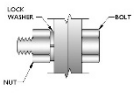


BOLT SCHEDULE (IN.)

BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 1 1/16	7/8	1 1/2
5/8	11/16	11/16 x 7/8	1 1/8	1 7/8
3/4	13/16	13/16 x 1	1 1/4	2 1/4
7/8	15/16	15/16 x 1 1/8	1 1/2	2 5/8
1	1 1/16	1 1/16 x 1 5/16	1 3/4	3

WORKABLE GAGES (IN.)

LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

NOTES:

1. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
3. SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS.
4. MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.

MASER CONSULTING
NEW JERSEY · PENNSYLVANIA · VIRGINIA · FLORIDA · NORTH CAROLINA · SOUTH CAROLINA · NEW HYDCO · OHIO · GEORGIA · TEXAS · TENNESSEE · COLORADO

verizon

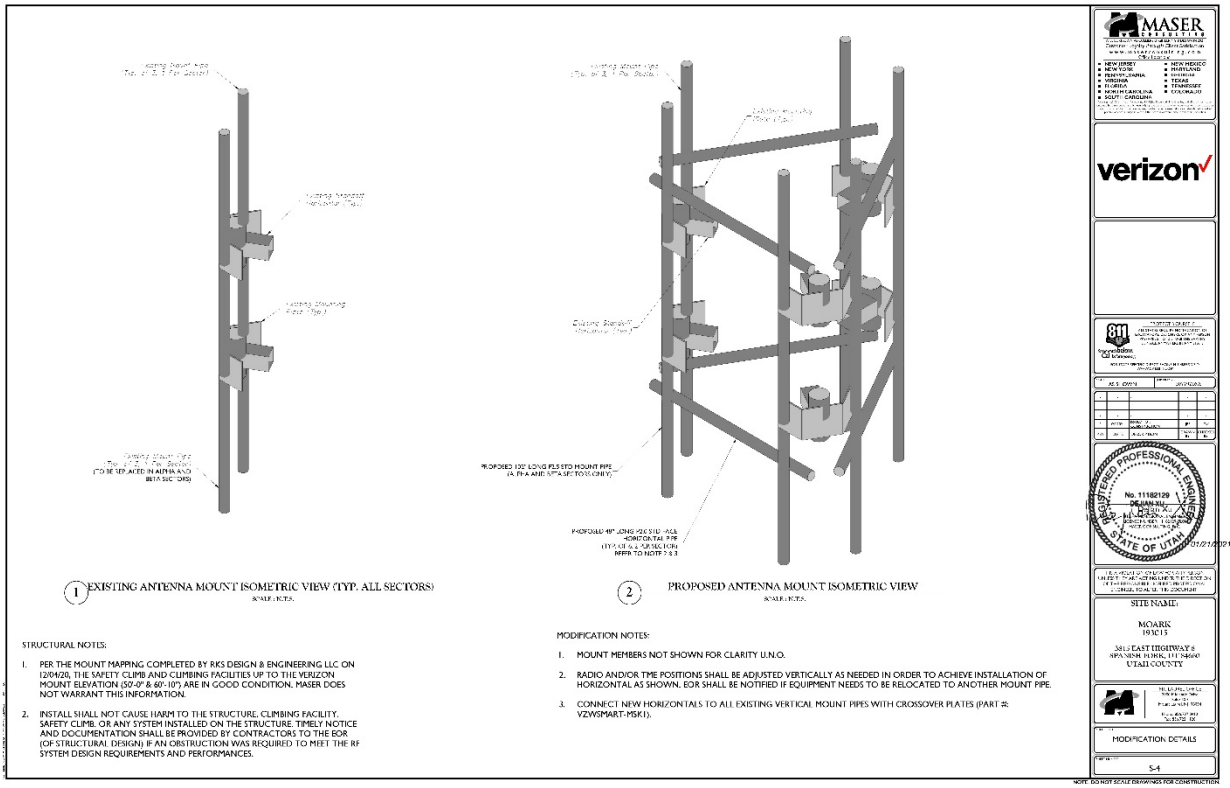
REGISTERED PROFESSIONAL ENGINEER No. 11182129 DEJIAN XU STATE OF UTAH 10/21/2021

SITE NAME: MOARK DEPOT
881 S EARTHKHWAY 6
SPANISH FORK, UT 84660
UTAH COUNTY

MODIFICATION NOTES

S-3

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



1 EXISTING ANTENNA MOUNT ISOMETRIC VIEW (TYP. ALL SECTORS)

2 PROPOSED ANTENNA MOUNT ISOMETRIC VIEW

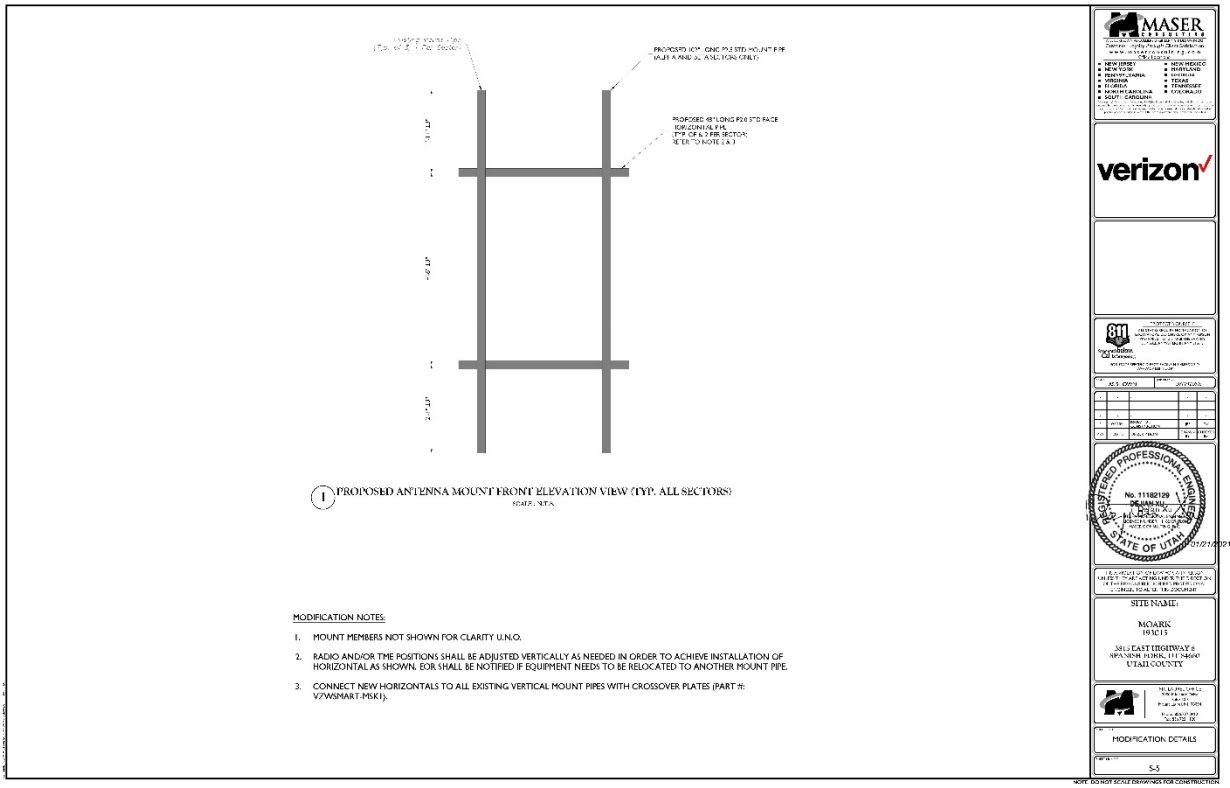
STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY RKS DESIGN & ENGINEERING LLC ON 12/04/20, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (50'-0" & 60'-10") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
3. CONNECT NEW HORIZONTALS TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).

MASER CONSULTING
verizon
REGISTERED PROFESSIONAL ENGINEER No. 11182129 DE-HAN XU STATE OF UTAH
SITE NAME:
MOARK
10 UT 15
3815 EAST HIGHWAY 6
SPANISH FORK, UT 84660
UTAH COUNTY
MODIFICATION DETAILS
S-4
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION

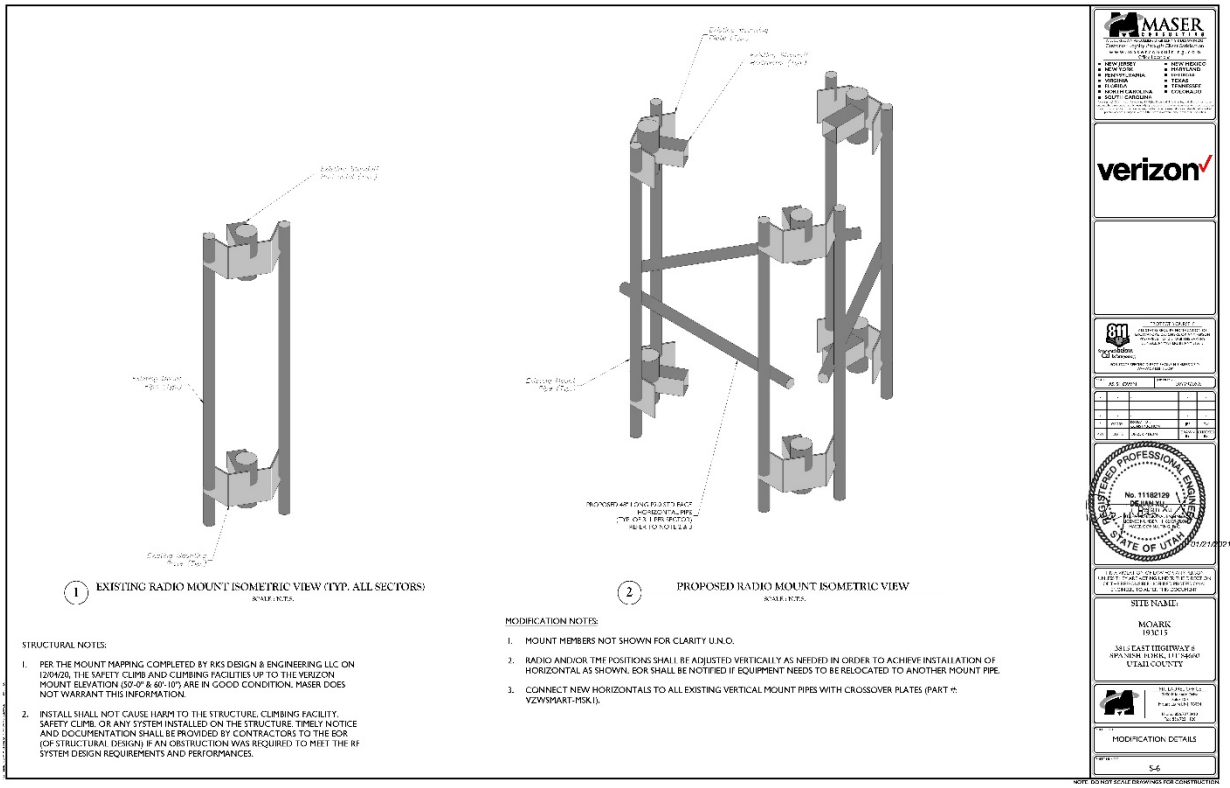


1 PROPOSED ANTENNA MOUNT FRONT ELEVATION VIEW (TYP. ALL SECTORS)

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
3. CONNECT NEW HORIZONTALS TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).

MASER CONSULTING
verizon
REGISTERED PROFESSIONAL ENGINEER No. 11182129 DE-HAN XU STATE OF UTAH
SITE NAME:
MOARK
10 UT 15
3815 EAST HIGHWAY 6
SPANISH FORK, UT 84660
UTAH COUNTY
MODIFICATION DETAILS
S-5
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION



1 EXISTING RADIO MOUNT ISOMETRIC VIEW (TYP. ALL SECTORS)
SCALE: N.T.S.

2 PROPOSED RADIO MOUNT ISOMETRIC VIEW
SCALE: N.T.S.

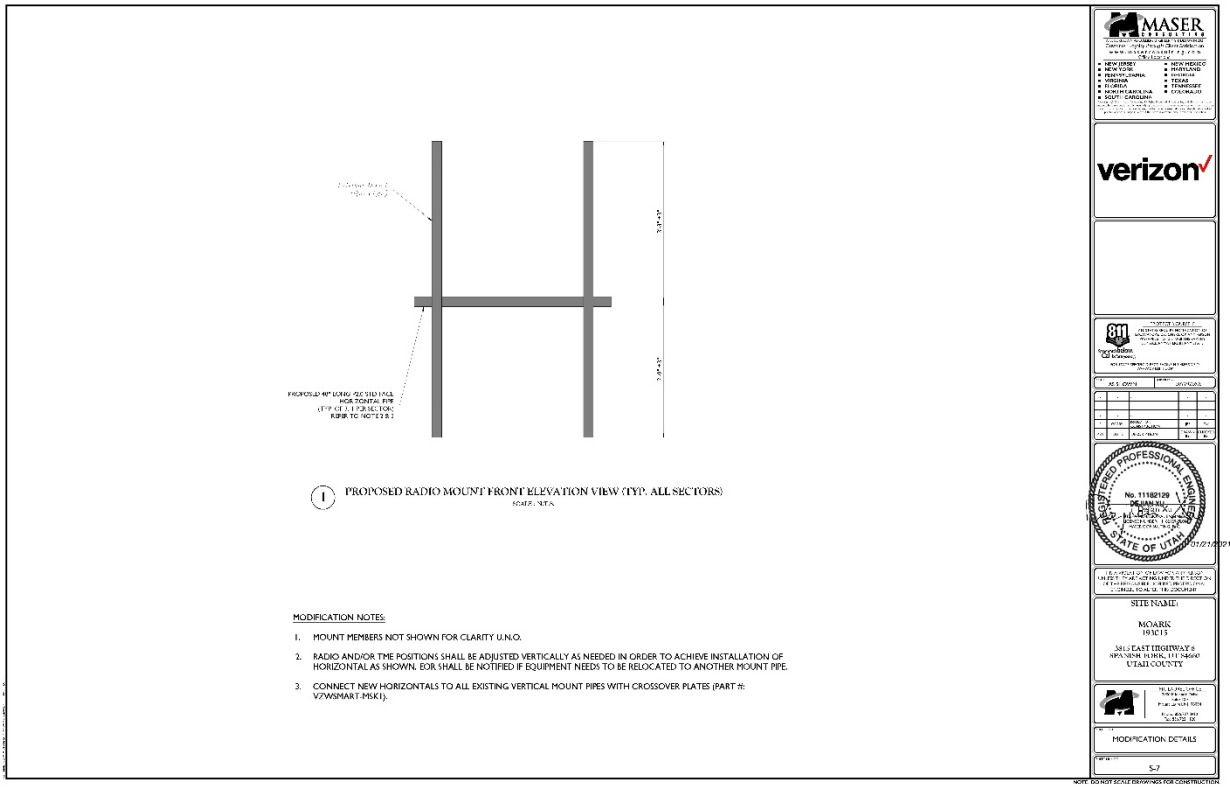
STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY RKS DESIGN & ENGINEERING LLC ON 12/04/20, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (50'-0" & 60'-10") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
3. CONNECT NEW HORIZONTALS TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).

MASER CONSULTING
verizon
REGISTERED PROFESSIONAL ENGINEER No. 11182129 DE-HAN XU STATE OF UTAH
SITE NAME:
MOARK
10 UT 15
3615 EAST HIGHWAY 6
SPANISH FORK, UT 84660
UTAH COUNTY
MODIFICATION DETAILS
S-6
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION



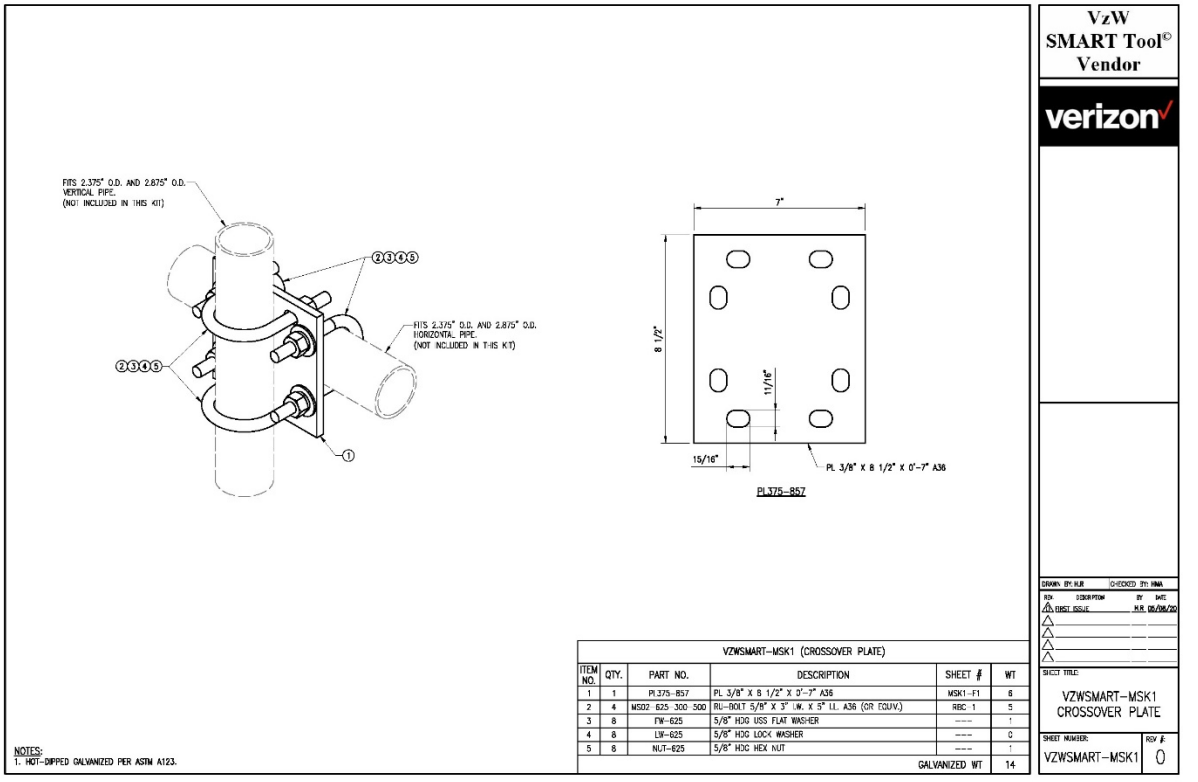
1 PROPOSED RADIO MOUNT FRONT ELEVATION VIEW (TYP. ALL SECTORS)
SCALE: N.T.S.

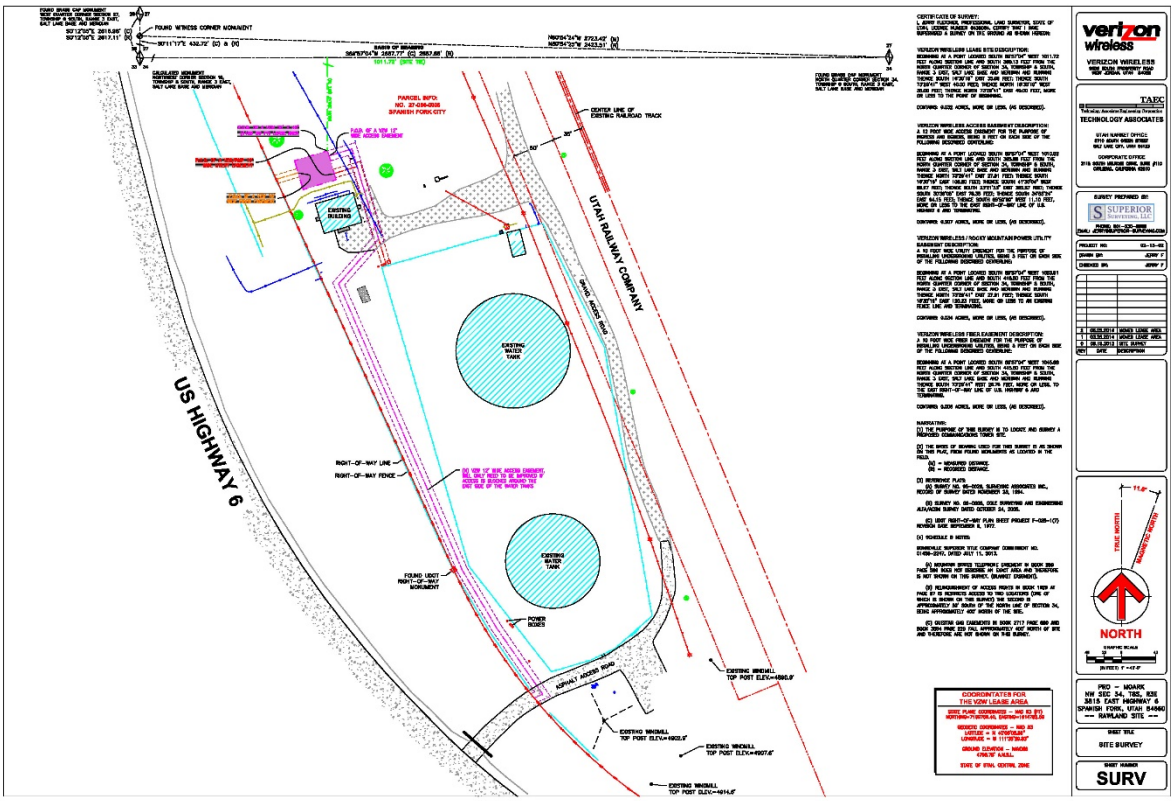
MODIFICATION NOTES:

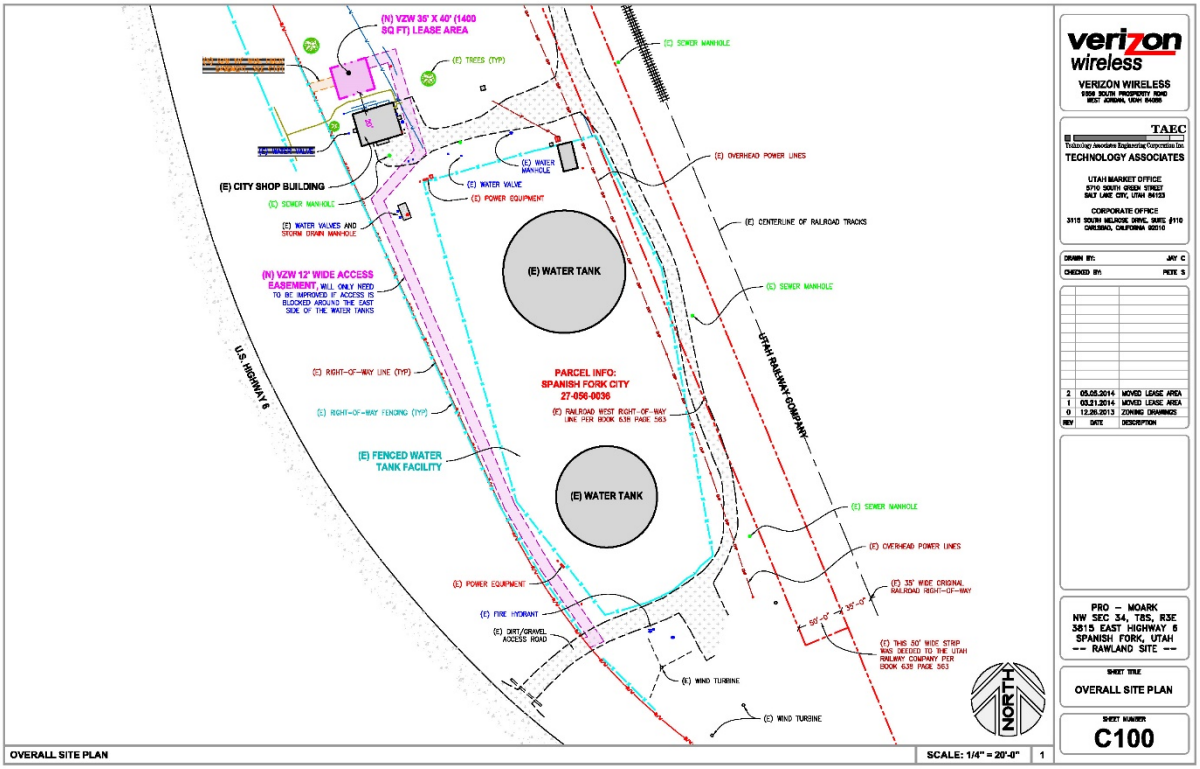
1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
3. CONNECT NEW HORIZONTALS TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).

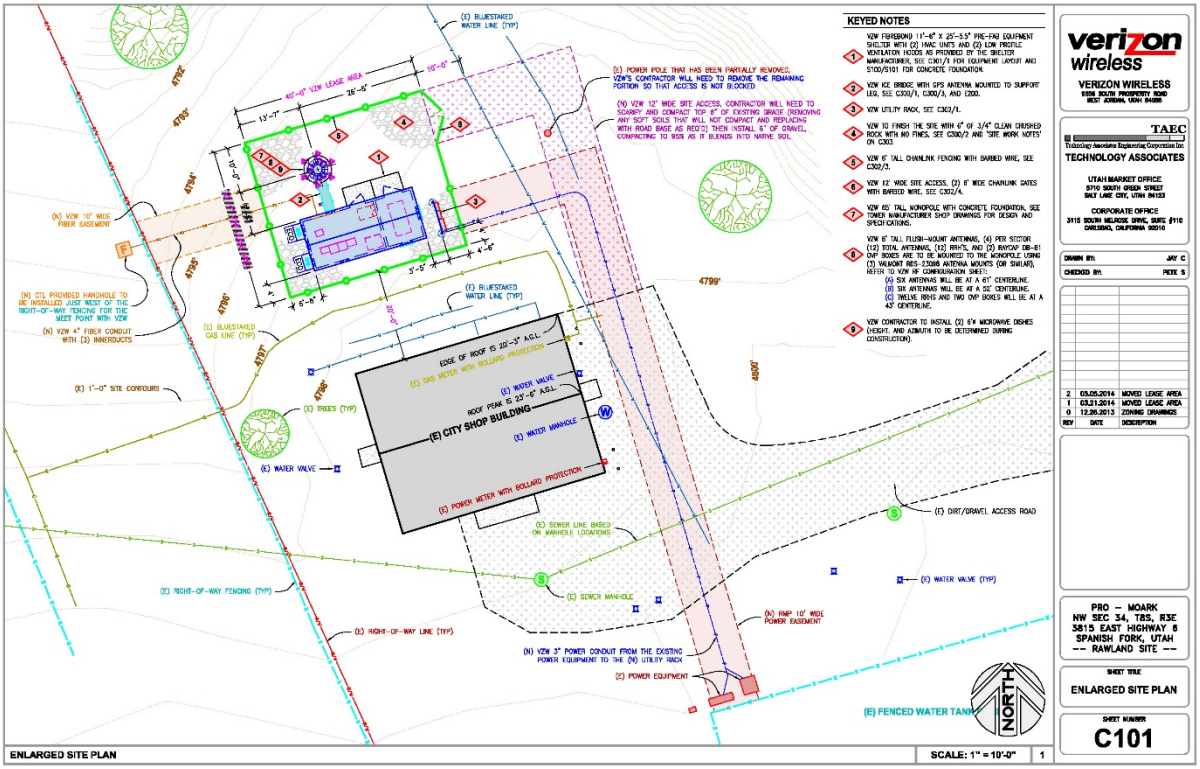
MASER CONSULTING
verizon
REGISTERED PROFESSIONAL ENGINEER No. 11182129 DE-HAN XU STATE OF UTAH
SITE NAME:
MOARK
10 UT 15
3615 EAST HIGHWAY 6
SPANISH FORK, UT 84660
UTAH COUNTY
MODIFICATION DETAILS
S-7
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION


MOUNT PHOTO 1
MOUNT PHOTO 2
MOUNT PHOTO 3
MOUNT PHOTO 4
MASER CONSULTING
verizon
811 Know what's below. Call before you dig.
REGISTERED PROFESSIONAL ENGINEER
No. 11182129
DE HAN XU
STATE OF UTAH
01/21/2021
SITE NAME:
MOARK
DP0115
181 EAST HIGHWAY 6
SPANISH FORK, UT 84660
UTAH COUNTY
MOUNT PHOTOS
S-8

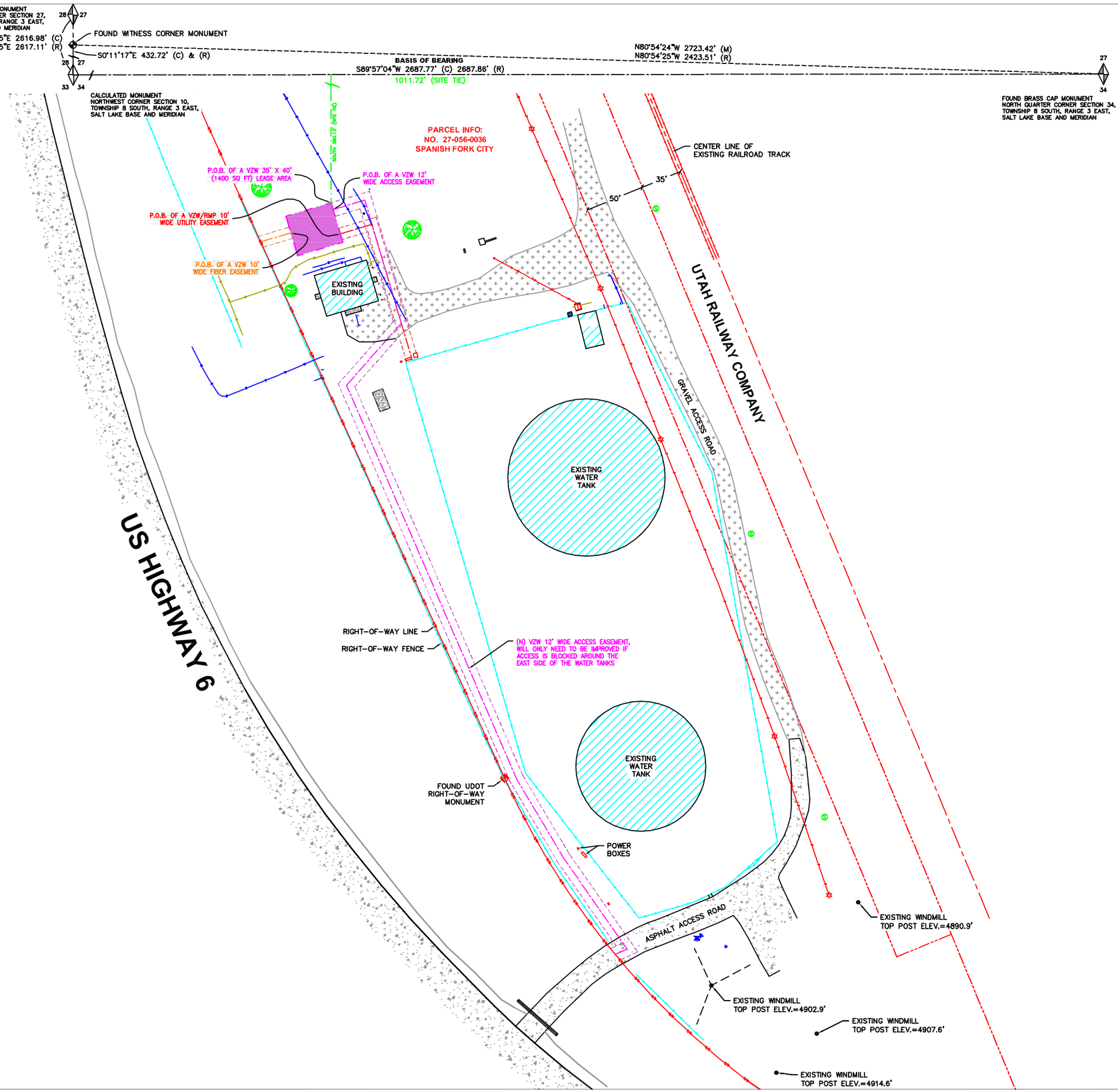

FITS 2.375" O.D. AND 2.875" O.D. VERTICAL PIPE. (NOT INCLUDED IN THIS KIT)
FITS 2.375" O.D. AND 2.875" O.D. HORIZONTAL PIPE. (NOT INCLUDED IN THIS KIT)
7"
8 1/2"
11/16"
15/16"
PL 3/8" X 8 1/2" X 0'-7" A36
PL375-857
VzW SMART Tool© Vendor
verizon
VZWSMART-MSK1 (CROSSOVER PLATE)
ITEM NO. | QTY. | PART NO. | DESCRIPTION | SHEET # | WT
1 | 1 | PL375-857 | PL 3/8" X 8 1/2" X 0'-7" A36 | MSK1-F1 | 6
2 | 4 | MS02 625 300 500 | RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUV.) | REC 1 | 5
3 | 8 | FW-625 | 5/8" HDG USS FLAT WASHER | ---- | ↑
4 | 8 | LW-625 | 5/8" HDG LOCK WASHER | ---- | 0
5 | 8 | NUT-625 | 5/8" HDG HEX NUT | ---- | ↑
GALVANIZED WT 14
NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.
DRAWN BY: N.R CHECKED BY: HHA
REV DESCRIPTION BY DATE
1 FIRST ISSUE N.R. 09/08/20
SHEET TITLE:
VZWSMART-MSK1 CROSSOVER PLATE
SHEET NUMBER: VZWSMART-MSK1
REV #: 0


US HIGHWAY 6
UTAH RAILWAY COMPANY
EXISTING WATER TANK
EXISTING BUILDING
RIGHT-OF-WAY LINE
RIGHT-OF-WAY FENCE
ASPHALT ACCESS ROAD
POWER BOXES
verizon wireless
VERIZON WIRELESS
TAEC
TECHNOLOGY ASSOCIATES
NORTH
PRO – MOARK
NW SEC 34, T8S, R3E
3815 EAST HIGHWAY 6
SPANISH FORK, UTAH 84660
-- RAWLAND SITE --
SITE SURVEY
SURV


(N) VZW 35' X 40' (1400 SQ FT) LEASE AREA
(E) CITY SHOP BUILDING
(E) WATER TANK
(E) WATER TANK
(N) VZW 12' WIDE ACCESS EASEMENT, WILL ONLY NEED TO BE IMPROVED IF ACCESS IS BLOCKED AROUND THE EAST SIDE OF THE WATER TANKS
PARCEL INFO:
SPANISH FORK CITY
27-056-0036
(E) FENCED WATER TANK FACILITY
U.S. HIGHWAY 6
UTAH RAILWAY COMPANY
(E) OVERHEAD POWER LINES
(E) CENTERLINE OF RAILROAD TRACKS
(E) WIND TURBINE
NORTH
verizon wireless
VERIZON WIRELESS
TAEC
TECHNOLOGY ASSOCIATES
PRO – MOARK
NW SEC 34, T8S, R3E
3815 EAST HIGHWAY 6
SPANISH FORK, UTAH
-- RAWLAND SITE --
OVERALL SITE PLAN
C100
OVERALL SITE PLAN
SCALE: 1/4" = 20'-0"


KEYED NOTES
1 VZW FIBERBOND 11'-6" X 25'-3.5" PRE-FAB EQUIPMENT SHELTER WITH (3) HVAC UNITS AND (2) LOW PROFILE VENTILATION HOODS AS PROVIDED BY THE SHELTER MANUFACTURER, SEE C101/1 FOR EQUIPMENT LAYOUT AND S100/S101 FOR CONCRETE FOUNDATION
2 VZW ICE BRIDGE WITH GPS ANTENNA MOUNTED TO SUPPORT LEG, SEE C300/1, C300/3, AND C200.
3 VZW UTILITY RACK, SEE C302/1.
4 VZW TO FINISH THE SITE WITH 6" OF 3/4" CLEAN CRUSHED ROCK WITH NO FINES, SEE C200/2 AND "SITE WORK NOTES" ON C303.
5 VZW 6' TALL CHAINLINK FENCING WITH BARBED WIRE, SEE C302/3.
6 VZW 12' WIDE SITE ACCESS, (2) 6' WIDE CHAINLINK GATES WITH BARBED WIRE, SEE C302/4.
7 VZW 65' TALL MONOPOLE WITH CONCRETE FOUNDATION, SEE TOWER MANUFACTURER SHOP DRAWINGS FOR DESIGN AND SPECIFICATIONS.
8 VZW 6' TALL FLUSH-MOUNT ANTENNAS, (4) PER SECTOR (12) TOTAL ANTENNAS, (12) RRH'S, AND (2) RAYCAP DB-B1 OVP BOXES ARE TO BE MOUNTED TO THE MONOPOLE USING (2) VALMONT RES-27066 ANTENNA MOUNTS (OR SIMILAR). REFER TO VZW RF CONFIGURATION SHEET:
(A) SIX ANTENNAS WILL BE AT A 61° CENTERLINE.
(B) SIX ANTENNAS WILL BE AT A 301° CENTERLINE.
(C) TWELVE RRHS AND TWO OVP BOXES WILL BE AT A 43° CENTERLINE.
9 VZW CONTRACTOR TO INSTALL (2) 6'Ø MICROWAVE DISHES (HEIGHT, AND AZIMUTH TO BE DETERMINED DURING CONSTRUCTION).
(E) BLUESTAKED WATER LINE (TYP)
(E) POWER POLE THAT HAS BEEN PARTIALLY REMOVED. VZW'S CONTRACTOR WILL NEED TO REMOVE THE REMAINING PORTION SO THAT ACCESS IS NOT BLOCKED
(N) VZW 12' WIDE SITE ACCESS. CONTRACTOR WILL NEED TO SCARIFY AND COMPACT TOP 8" OF EXISTING GRADE (REMOVING ANY SOFT SOILS THAT WILL NOT COMPACT AND REPLACING WITH ROAD BASE AS REQ'D) THEN INSTALL 6" OF GRAVEL, COMPACTING TO 95% AS IT BLENDS INTO NATIVE SOIL.
(N) VZW 10' WIDE FIBER EASEMENT
(N) CTL PROVIDED HANDHOLE TO BE INSTALLED JUST WEST OF THE RIGHT-OF-WAY FENCING FOR THE MEET POINT WITH VZW
(N) VZW 4" FIBER CONDUIT WITH (3) INNERDUCTS
(E) BLUESTAKED GAS LINE (TYP)
(E) BLUESTAKED WATER LINE (TYP)
EDGE OF ROOF IS 20'-3" A.G.L.
(E) GAS METER WITH BOLLARD PROTECTION
(E) WATER VALVE
ROOF PEAK IS 23'-6" A.G.L.
(E) CITY SHOP BUILDING
(E) WATER MANHOLE
(E) POWER METER WITH BOLLARD PROTECTION
(E) 1'-0" SITE CONTOURS
(E) TREES (TYP)
(E) WATER VALVE
(E) SEWER LINE BASED ON MANHOLE LOCATIONS
(E) SEWER MANHOLE
(E) DIRT/GRAVEL ACCESS ROAD
(E) WATER VALVE (TYP)
(E) RIGHT-OF-WAY FENCING (TYP)
(E) RIGHT-OF-WAY LINE (TYP)
(N) RWP 10' WIDE POWER EASEMENT
(N) VZW 3" POWER CONDUIT FROM THE EXISTING POWER EQUIPMENT TO THE (N) UTILITY RACK
(E) POWER EQUIPMENT
(E) FENCED WATER TANK
NORTH
ENLARGED SITE PLAN
SCALE: 1" = 10'-0"
verizon wireless
VERIZON WIRELESS
9256 SOUTH PROSPERITY ROAD
WEST JORDAN, UTAH 84088
TAEC
Technology Associates Engineering Corporation Inc.
TECHNOLOGY ASSOCIATES
UTAH MARKET OFFICE
5710 SOUTH GREEN STREET
SALT LAKE CITY, UTAH 84123
CORPORATE OFFICE
3115 SOUTH MELROSE DRIVE, SUITE #110
CARLSBAD, CALIFORNIA 92010
DRAWN BY: JAY C
CHECKED BY: PETE S
2 03.05.2014 MOVED LEASE AREA
1 03.21.2014 MOVED LEASE AREA
0 12.26.2013 ZONING DRAWINGS
REV DATE DESCRIPTION
PRO – MOARK
NW SEC 34, T8S, R3E
3815 EAST HIGHWAY 6
SPANISH FORK, UTAH
-- RAWLAND SITE --
SHEET TITLE
ENLARGED SITE PLAN
SHEET NUMBER
C101





CERTIFICATE OF SURVEY:
I, JERRY FLETCHER, PROFESSIONAL LAND SURVEYOR, STATE OF UTAH, LICENSE NUMBER 6436064, CERTIFY THAT I HAVE SUPERVISED A SURVEY ON THE GROUND AS SHOWN HEREON:

VERIZON WIRELESS LEASE SITE DESCRIPTION:
BEGINNING AT A POINT LOCATED SOUTH 89°57'04" WEST 1011.72 FEET ALONG SECTION LINE AND SOUTH 390.13 FEET FROM THE NORTH QUARTER CORNER OF SECTION 34, TOWNSHIP 8 SOUTH, RANGE 3 EAST, SALT LAKE BASE AND MERIDIAN AND RUNNING THENCE SOUTH 16°30'19" EAST 35.00 FEET; THENCE SOUTH 73°29'41" WEST 40.00 FEET; THENCE NORTH 16°30'19" WEST 35.00 FEET; THENCE NORTH 73°29'41" EAST 40.00 FEET, MORE OR LESS TO THE POINT OF BEGINNING.

CONTAINS: 0.032 ACRES, MORE OR LESS, (AS DESCRIBED).

VERIZON WIRELESS ACCESS EASEMENT DESCRIPTION:
A 12 FOOT WIDE ACCESS EASEMENT FOR THE PURPOSE OF INGRESS AND EGRESS, BEING 6 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

BEGINNING AT A POINT LOCATED SOUTH 89°57'04" WEST 1010.02 FEET ALONG SECTION LINE AND SOUTH 395.88 FEET FROM THE NORTH QUARTER CORNER OF SECTION 34, TOWNSHIP 8 SOUTH, RANGE 3 EAST, SALT LAKE BASE AND MERIDIAN AND RUNNING THENCE NORTH 73°29'41" EAST 27.91 FEET; THENCE SOUTH 16°30'19" EAST 108.80 FEET; THENCE SOUTH 41°30'04" WEST 69.97 FEET; THENCE SOUTH 23°21'33" EAST 362.57 FEET; THENCE SOUTH 30°38'05" EAST 78.35 FEET; THENCE SOUTH 34°53'24" EAST 94.15 FEET; THENCE SOUTH 85°59'00" WEST 11.10 FEET, MORE OR LESS TO THE EAST RIGHT-OF-WAY LINE OF U.S. HIGHWAY 6 AND TERMINATING.

CONTAINS: 0.207 ACRES, MORE OR LESS, (AS DESCRIBED).

VERIZON WIRELESS / ROCKY MOUNTAIN POWER UTILITY EASEMENT DESCRIPTION:
A 10 FOOT WIDE UTILITY EASEMENT FOR THE PURPOSE OF INSTALLING UNDERGROUND UTILITIES, BEING 5 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

BEGINNING AT A POINT LOCATED SOUTH 89°57'04" WEST 1003.91 FEET ALONG SECTION LINE AND SOUTH 416.50 FEET FROM THE NORTH QUARTER CORNER OF SECTION 34, TOWNSHIP 8 SOUTH, RANGE 3 EAST, SALT LAKE BASE AND MERIDIAN AND RUNNING THENCE NORTH 73°29'41" EAST 27.91 FEET; THENCE SOUTH 16°30'19" EAST 120.23 FEET, MORE OR LESS TO AN EXISTING FENCE LINE AND TERMINATING.

CONTAINS: 0.034 ACRES, MORE OR LESS, (AS DESCRIBED).

VERIZON WIRELESS FIBER EASEMENT DESCRIPTION:
A 10 FOOT WIDE FIBER EASEMENT FOR THE PURPOSE OF INSTALLING UNDERGROUND UTILITIES, BEING 5 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

BEGINNING AT A POINT LOCATED SOUTH 89°57'04" WEST 1045.88 FEET ALONG SECTION LINE AND SOUTH 415.60 FEET FROM THE NORTH QUARTER CORNER OF SECTION 34, TOWNSHIP 8 SOUTH, RANGE 3 EAST, SALT LAKE BASE AND MERIDIAN AND RUNNING THENCE SOUTH 73°29'41" WEST 26.76 FEET, MORE OR LESS, TO THE EAST RIGHT-OF-WAY LINE OF U.S. HIGHWAY 6 AND TERMINATING.

CONTAINS: 0.006 ACRES, MORE OR LESS, (AS DESCRIBED).

NARRATIVE:
(1) THE PURPOSE OF THIS SURVEY IS TO LOCATE AND SURVEY A PROPOSED COMMUNICATIONS TOWER SITE.

(2) THE BASIS OF BEARING USED FOR THIS SURVEY IS AS SHOWN ON THIS PLAT, FROM FOUND MONUMENTS AS LOCATED IN THE FIELD.
(M) = MEASURED DISTANCE.
(R) = RECORDED DISTANCE.

(3) REFERENCE PLATS:
(A) SURVEY NO. 95-0026, SURVEYING ASSOCIATES INC., RECORD OF SURVEY DATED NOVEMBER 28, 1994.

(B) SURVEY NO. 08-0008, COLE SURVEYING AND ENGINEERING ALTA/ACSM SURVEY DATED OCTOBER 24, 2005.

(C) UDOT RIGHT-OF-WAY PLAN SHEET PROJECT F-028-1(7) REVISION DATE SEPTEMBER 9, 1977.

(4) SCHEDULE B NOTES:

BONNEVILLE SUPERIOR TITLE COMPANY COMMITMENT NO. 01459-2247, DATED JULY 11, 2013.

(A) MOUNTAIN STATES TELEPHONE EASEMENT IN BOOK 289 PAGE 596 DOES NOT DESCRIBE AN EXACT AREA AND THEREFORE IS NOT SHOWN ON THIS SURVEY. (BLANKET EASEMENT).

(B) RELINQUISHMENT OF ACCESS RIGHTS IN BOOK 1629 AT PAGE 87 IS RESTRICTS ACCESS TO TWO LOCATIONS (ONE OF WHICH IS SHOWN ON THIS SURVEY) THE SECOND IS APPROXIMATELY 50' SOUTH OF THE NORTH LINE OF SECTION 34, BEING APPROXIMATELY 400' NORTH OF THE SITE.

(C) QUESTAR GAS EASEMENTS IN BOOK 2717 PAGE 880 AND BOOK 3594 PAGE 229 FALL APPROXIMATELY 400' NORTH OF SITE AND THEREFORE ARE NOT SHOWN ON THIS SURVEY.

COORDINTATES FOR
THE VZW LEASE AREA

STATE PLANE COORDINATES - NAD 83 (FT)
NORTHING=7199758.40, EASTING=1614782.59

GEODETIC COORDINATES - NAD 83
LATITUDE = N 40°05'06.59"
LONGITUDE = W 111°35'29.83"

GROUND ELEVATION - NAVD88
4796.78' A.M.S.L.

STATE OF UTAH, CENTRAL ZONE

verizon wireless
VERIZON WIRELESS
9656 SOUTH PROSPERITY ROAD
WEST JORDAN, UTAH 84088

TAEC
Technology Associates Engineering Corporation
TECHNOLOGY ASSOCIATES

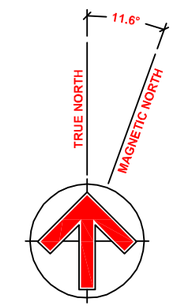
UTAH MARKET OFFICE
5710 SOUTH GREEN STREET
SALT LAKE CITY, UTAH 84123

CORPORATE OFFICE
3115 SOUTH MELROSE DRIVE, SUITE #110
CARLSBAD, CALIFORNIA 92010

SURVEY PREPARED BY:
SUPERIOR SURVEYING, LLC
PHONE: 801-230-8968
EMAIL: JERRY@SUPERIOR-SURVEYING.COM

PROJECT NO:	02-13-02
DRAWN BY:	JERRY F
CHECKED BY:	JERRY F

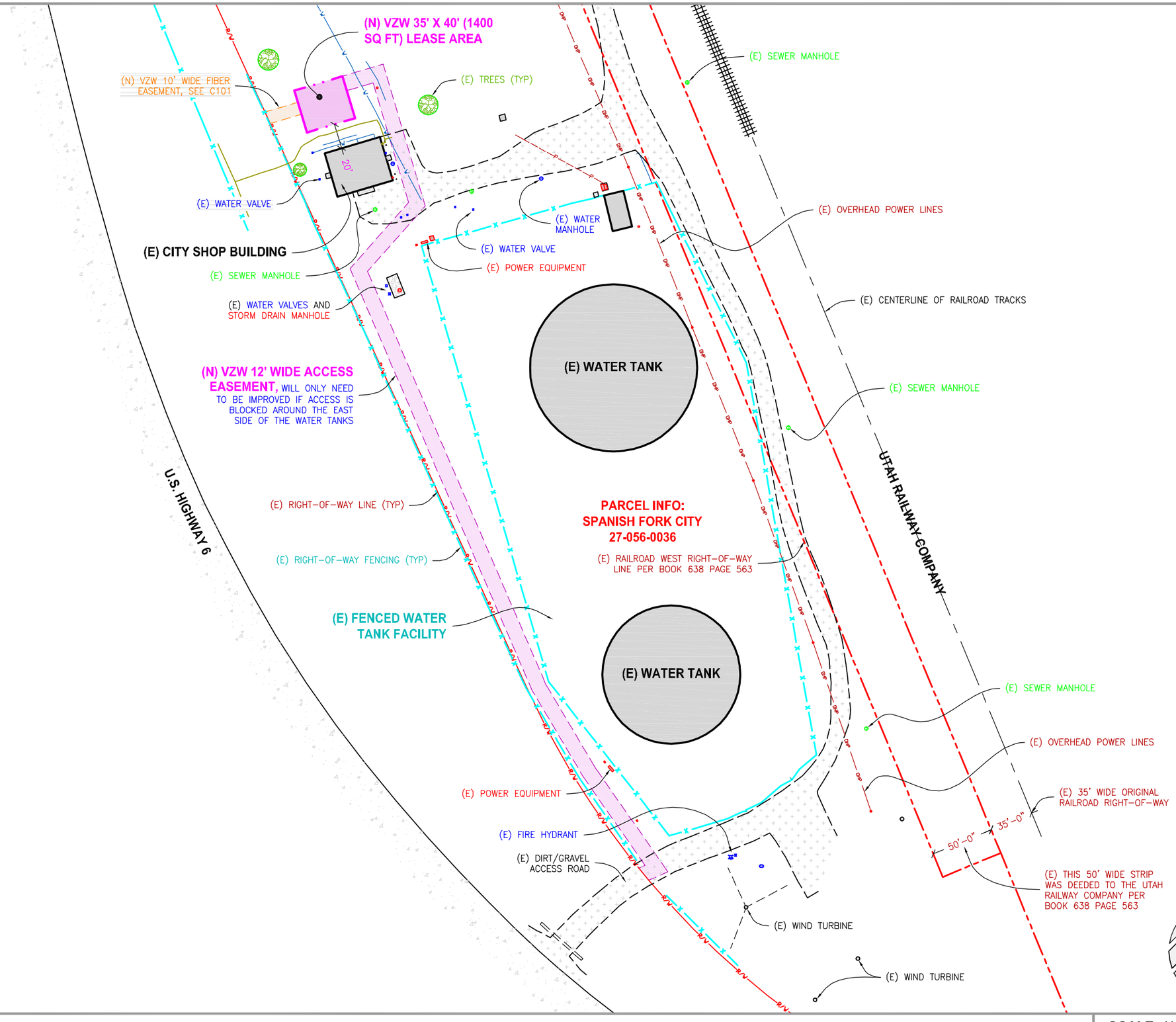
REV	DATE	DESCRIPTION
2	05.05.2014	MOVED LEASE AREA
1	03.25.2014	MOVED LEASE AREA
0	08.19.2013	SITE SURVEY



PRO - MOARK
NW SEC 34, T8S, R3E
3815 EAST HIGHWAY 6
SPANISH FORK, UTAH 84660
-- RAWLAND SITE --

SHEET TITLE
SITE SURVEY

SHEET NUMBER
SURV



OVERALL SITE PLAN

SCALE: 1/4" = 20'-0"

1

verizon wireless

VERIZON WIRELESS
9656 SOUTH PROSPERITY ROAD
WEST JORDAN, UTAH 84088

TAEC
Technology Associates Engineering Corporation Inc.
TECHNOLOGY ASSOCIATES

UTAH MARKET OFFICE
5710 SOUTH GREEN STREET
SALT LAKE CITY, UTAH 84123

CORPORATE OFFICE
3115 SOUTH MELROSE DRIVE, SUITE #110
CARLSBAD, CALIFORNIA 92010

DRAWN BY:	JAY C
CHECKED BY:	PETE S

REV	DATE	DESCRIPTION
2	05.05.2014	MOVED LEASE AREA
1	03.21.2014	MOVED LEASE AREA
0	12.26.2013	ZONING DRAWINGS

PRO – MOARK
NW SEC 34, T8S, R3E
3815 EAST HIGHWAY 6
SPANISH FORK, UTAH
-- RAWLAND SITE --

SHEET TITLE

OVERALL SITE PLAN

SHEET NUMBER

C100

KEYED NOTES

1. VZW FIBREBOND 11'-6" X 25'-5.5" PRE-FAB EQUIPMENT SHELTER WITH (2) HVAC UNITS AND (2) LOW PROFILE VENTILATION HOODS AS PROVIDED BY THE SHELTER MANUFACTURER, SEE C301/1 FOR EQUIPMENT LAYOUT AND S100/S101 FOR CONCRETE FOUNDATION.
2. VZW ICE BRIDGE WITH GPS ANTENNA MOUNTED TO SUPPORT LEG, SEE C300/1, C300/3, AND E200.
3. VZW UTILITY RACK, SEE C302/1.
4. VZW TO FINISH THE SITE WITH 6" OF 3/4" CLEAN CRUSHED ROCK WITH NO FINES, SEE C300/2 AND 'SITE WORK NOTES' ON C303.
5. VZW 6' TALL CHAINLINK FENCING WITH BARBED WIRE, SEE C302/3.
6. VZW 12' WIDE SITE ACCESS, (2) 6' WIDE CHAINLINK GATES WITH BARBED WIRE, SEE C302/4.
7. VZW 65' TALL MONOPOLE WITH CONCRETE FOUNDATION, SEE TOWER MANUFACTURER SHOP DRAWINGS FOR DESIGN AND SPECIFICATIONS.
8. VZW 8' TALL FLUSH-MOUNT ANTENNAS, (4) PER SECTOR (12) TOTAL ANTENNAS, (12) RRH'S, AND (2) RAYCAP DB-B1 OVP BOXES ARE TO BE MOUNTED TO THE MONOPOLE USING (3) VALMONT RDS-23096 ANTENNA MOUNTS (OR SIMILAR), REFER TO VZW RF CONFIGURATION SHEET:
   - (A) SIX ANTENNAS WILL BE AT A 61' CENTERLINE.
   - (B) SIX ANTENNAS WILL BE AT A 52' CENTERLINE.
   - (C) TWELVE RRHS AND TWO OVP BOXES WILL BE AT A 43' CENTERLINE.
9. VZW CONTRACTOR TO INSTALL (2) 6'ø MICROWAVE DISHES (HEIGHT, AND AZIMUTH TO BE DETERMINED DURING CONSTRUCTION).

(E) BLUESTAKED WATER LINE (TYP)
40'-0" VZW LEASE AREA
26'-5"
13'-7"
10'-0"
10'-0"
9'-6"
35'-0" VZW LEASE AREA
(E) POWER POLE THAT HAS BEEN PARTIALLY REMOVED, VZW'S CONTRACTOR WILL NEED TO REMOVE THE REMAINING PORTION SO THAT ACCESS IS NOT BLOCKED
(N) VZW 12' WIDE SITE ACCESS, CONTRACTOR WILL NEED TO SCARIFY AND COMPACT TOP 6" OF EXISTING GRADE (REMOVING ANY SOFT SOILS THAT WILL NOT COMPACT AND REPLACING WITH ROAD BASE AS REQ'D) THEN INSTALL 6" OF GRAVEL, COMPACTING TO 95% AS IT BLENDS INTO NATIVE SOIL
(N) VZW 10' WIDE FIBER EASEMENT
(N) CTL PROVIDED HANDHOLE TO BE INSTALLED JUST WEST OF THE RIGHT-OF-WAY FENCING FOR THE MEET POINT WITH VZW
(N) VZW 4" FIBER CONDUIT WITH (3) INNERDUCTS
(E) BLUESTAKED WATER LINE (TYP)
(E) BLUESTAKED GAS LINE (TYP)
20'-0"
EDGE OF ROOF IS 20'-3" A.G.L.
(E) GAS METER WITH BOLLARD PROTECTION
(E) WATER VALVE
ROOF PEAK IS 23'-6" A.G.L.
(E) CITY SHOP BUILDING
(E) WATER MANHOLE
(E) POWER METER WITH BOLLARD PROTECTION
(E) 1'-0" SITE CONTOURS
(E) TREES (TYP)
(E) WATER VALVE
(E) RIGHT-OF-WAY FENCING (TYP)
(E) RIGHT-OF-WAY LINE (TYP)
(E) SEWER LINE BASED ON MANHOLE LOCATIONS
(E) SEWER MANHOLE
(E) DIRT/GRAVEL ACCESS ROAD
(E) WATER VALVE (TYP)
(N) RMP 10' WIDE POWER EASEMENT
(N) VZW 3" POWER CONDUIT FROM THE EXISTING POWER EQUIPMENT TO THE (N) UTILITY RACK
(E) POWER EQUIPMENT
(E) FENCED WATER TANK
4792'
4793'
4794'
4795'
4796'
4797'
4798'
4799'
4800'
NORTH

ENLARGED SITE PLAN | SCALE: 1" = 10'-0" | 1

verizon wireless

VERIZON WIRELESS
9656 SOUTH PROSPERITY ROAD
WEST JORDAN, UTAH 84088

TAEC
Technology Associates Engineering Corporation Inc.
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UTAH MARKET OFFICE
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3115 SOUTH MELROSE DRIVE, SUITE #110
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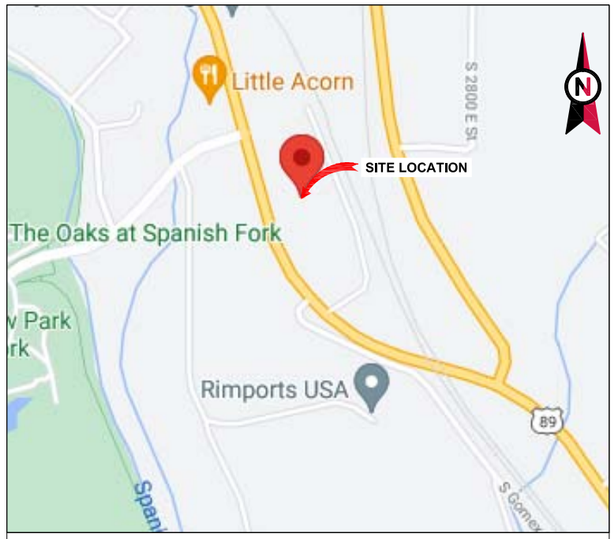
DRAWN BY:	JAY C
CHECKED BY:	PETE S

REV	DATE	DESCRIPTION
2	05.05.2014	MOVED LEASE AREA
1	03.21.2014	MOVED LEASE AREA
0	12.26.2013	ZONING DRAWINGS

PRO – MOARK
NW SEC 34, T8S, R3E
3815 EAST HIGHWAY 6
SPANISH FORK, UTAH
-- RAWLAND SITE --

SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
C101



VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: PRO MOARK UT
ATC SITE NUMBER: 416920
VERIZON SITE NAME: MOARK
VERIZON SITE NUMBER:193015
SITE ADDRESS: 3815 EAST HIGHWAY 6
SPANISH FORK, UT 84660



LOCATION MAP

VERIZON
ANTENNA AMENDMENT DRAWINGS

COMPLIANCE CODE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. 2018 INTERNATIONAL BUILDING CODE (IBC)
2. 2017 NATIONAL ELECTRIC CODE (NEC)
3. LOCAL BUILDING CODE
4. CITY/COUNTY ORDINANCES

UTILITY COMPANIES

POWER COMPANY: TBD
PHONE: TBD

TELEPHONE COMPANY: UNKNOWN
PHONE: () -

811 Know what's below. Call before you dig.

PROJECT SUMMARY

SITE ADDRESS:

3815 EAST HIGHWAY 6

SPANISH FORK, UT 84660

COUNTY: UTAH

GEOGRAPHIC COORDINATES:

LATITUDE: 40.085172

LONGITUDE: -111.591589

GROUND ELEVATION: 4803' AMSL

PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

ENGINEER:

FULLERTON ENGINEERING CONSULTANTS, LLC
1100 E. WOODFIELD ROAD, SUITE 500
SCHAUMBURG, IL 60173

PROPERTY OWNER:

-

APPLICANT:

VERIZON WIRELESS

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:

REMOVE (2) ANTENNA(s) AND (4) RRH(s)

INSTALL (6) ANTENNA(s), (4) RRH(s), MOUNT MODIFICATIONS AND (1) 1-5/8" HYBRID CABLE

EXISTING (1) OVP AND (1) 1-5/8" HYBRID CABLE TO REMAIN

PROJECT NOTES

1. THE FACILITY IS UNMANNED.
2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
5. HANDICAP ACCESS IS NOT REQUIRED.

PROJECT LOCATION DIRECTIONS

SPANISH FORK AIRPORT
HEAD SOUTH ON W 2050 N ST TOWARD S 200 W/N 300 W
TURN RIGHT ONTO N MAIN ST
TURN LEFT ONTO E 1000 E
TURN RIGHT ONTO US-6 E
PASS BY CULVER'S (ON THE RIGHT)
TURN LEFT DESTINATION WILL BE ON THE LEFT

SHEET INDEX

SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
G-001	TITLE SHEET	0	07/16/21	RV
G-002	GENERAL NOTES	0	07/16/21	RV
C-101	DETAILED SITE PLAN	0	07/16/21	RV
C-201	TOWER ELEVATION	0	07/16/21	RV
C-401	ANTENNA INFORMATION & SCHEDULE	0	07/16/21	RV
C-501	CONSTRUCTION DETAILS	0	07/16/21	RV
E-501	GROUNDING DETAILS	0	07/16/21	RV
	RFDS			
	MOUNT MODIFICATION DRAWINGS			

AMERICAN TOWER®

FULLERTON ENGINEERING · DESIGN
1100 E. WOODFIELD ROAD, SUITE 500
SCHAUMBURG, ILLINOIS 60173
TEL: 847-908-8400
www.FullertonEngineering.com

REV.	DESCRIPTION	BY	DATE
A	PRELIM	HK	05/27/21
0	FINAL	RV	07/16/21

ATC SITE NUMBER:
416920

ATC SITE NAME:
PRO MOARK UT

VERIZON SITE NAME:
MOARK

SITE ADDRESS:
3815 EAST HIGHWAY 6
SPANISH FORK, UT 84660

SEAL:

verizon

DATE DRAWN:	05/27/2021
ATC JOB NO:	13657862
CUSTOMER ID:	MOARK
CUSTOMER #:	193015

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	0

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GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
   - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
   - B. AC/TELCO INTERFACE BOX (PPC)
   - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
   - D. TOWERS, MONOPOLES
   - E. TOWER LIGHTING
   - F. GENERATORS & LIQUID PROPANE TANK
   - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
   - H. ANTENNAS (INSTALLED BY OTHERS)
   - I. TRANSMISSION LINE
   - J. TRANSMISSION LINE JUMPERS
   - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
   - L. TRANSMISSION LINE GROUND KITS
   - M. HANGERS
   - N. HOISTING GRIPS
   - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF VERIZON TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.
22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY VERIZON REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
32. VERIZON FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
33. VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
   - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OD COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
   - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND VERIZON SPECIFICATIONS.
   - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
   - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
   - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
   - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
   - G. ANTENNA AND COAXIAL CABLE GROUNDING:
2. ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

AMERICAN TOWER®

FULLERTON ENGINEERING · DESIGN
1100 E. WOODFIELD ROAD, SUITE 500
SCHAUMBURG, ILLINOIS 60173
TEL: 847-908-8400
www.FullertonEngineering.com

REV.	DESCRIPTION	BY	DATE
A	PRELIM	HK	05/27/21
0	FINAL	RV	07/16/21

ATC SITE NUMBER:
416920

ATC SITE NAME:
PRO MOARK UT

VERIZON SITE NAME:
MOARK

SITE ADDRESS:
3815 EAST HIGHWAY 6
SPANISH FORK, UT 84660

SEAL:

PROFESSIONAL ENGINEER
No. 10593212
MICHAEL LEEPER
STATE OF UTAH

verizon

DATE DRAWN:	05/27/2021
ATC JOB NO:	13657862
CUSTOMER ID:	MOARK
CUSTOMER #:	193015

GENERAL NOTES

SHEET NUMBER:	REVISION:
G-002	0

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SITE PLAN NOTES:

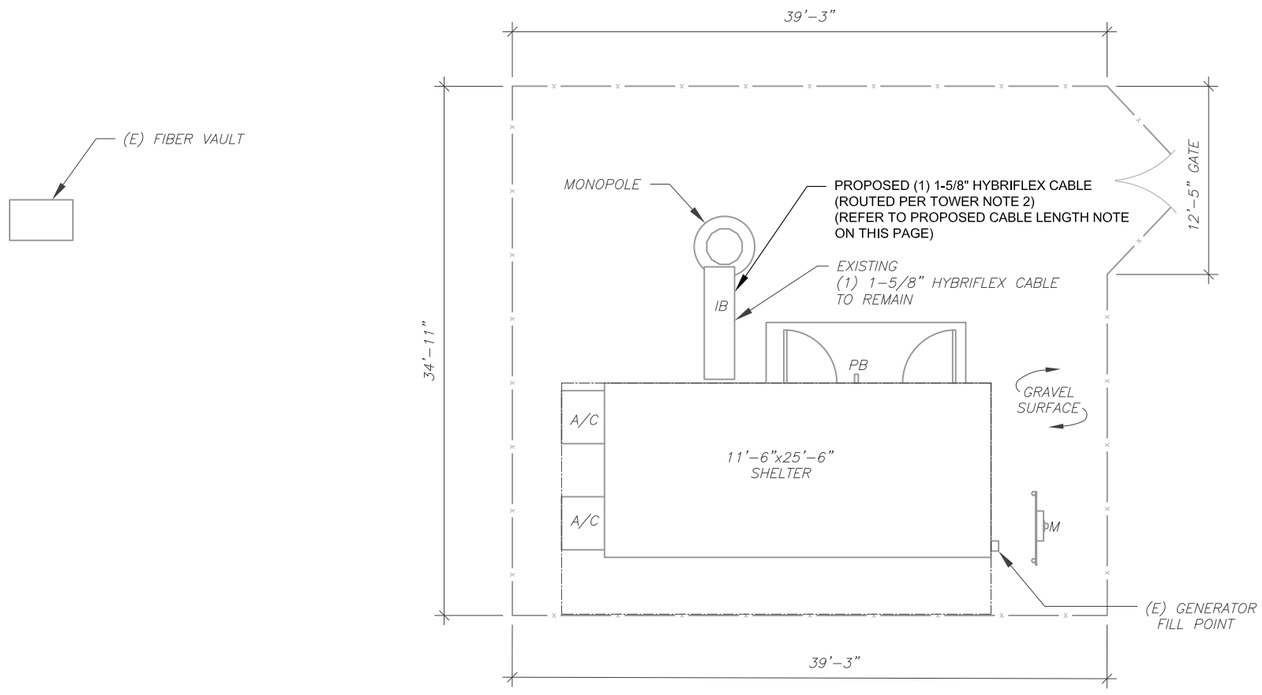
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.

2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.

3. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

LEGEND

⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACAL
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
——x——	CHAINLINK FENCE



PROPOSED CABLE LENGTH:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **140'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.

1 DETAILED SITE PLAN

GRAPHIC SCALE

10 0 5 10

(IN FEET)
1 UNIT = 10 FEET

N

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SCHAUMBURG, ILLINOIS 60173
TEL: 847-908-8400
www.FullertonEngineering.com

REV.	DESCRIPTION	BY	DATE
A	PRELIM	HK	05/27/21
0	FINAL	RV	07/16/21

ATC SITE NUMBER:
416920

ATC SITE NAME:
PRO MOARK UT

VERIZON SITE NAME:
MOARK

SITE ADDRESS:
3815 EAST HIGHWAY 6
SPANISH FORK, UT 84660

SEAL:

PROFESSIONAL ENGINEER
No. 10593212
MICHAEL
LEEPER
STATE OF UTAH

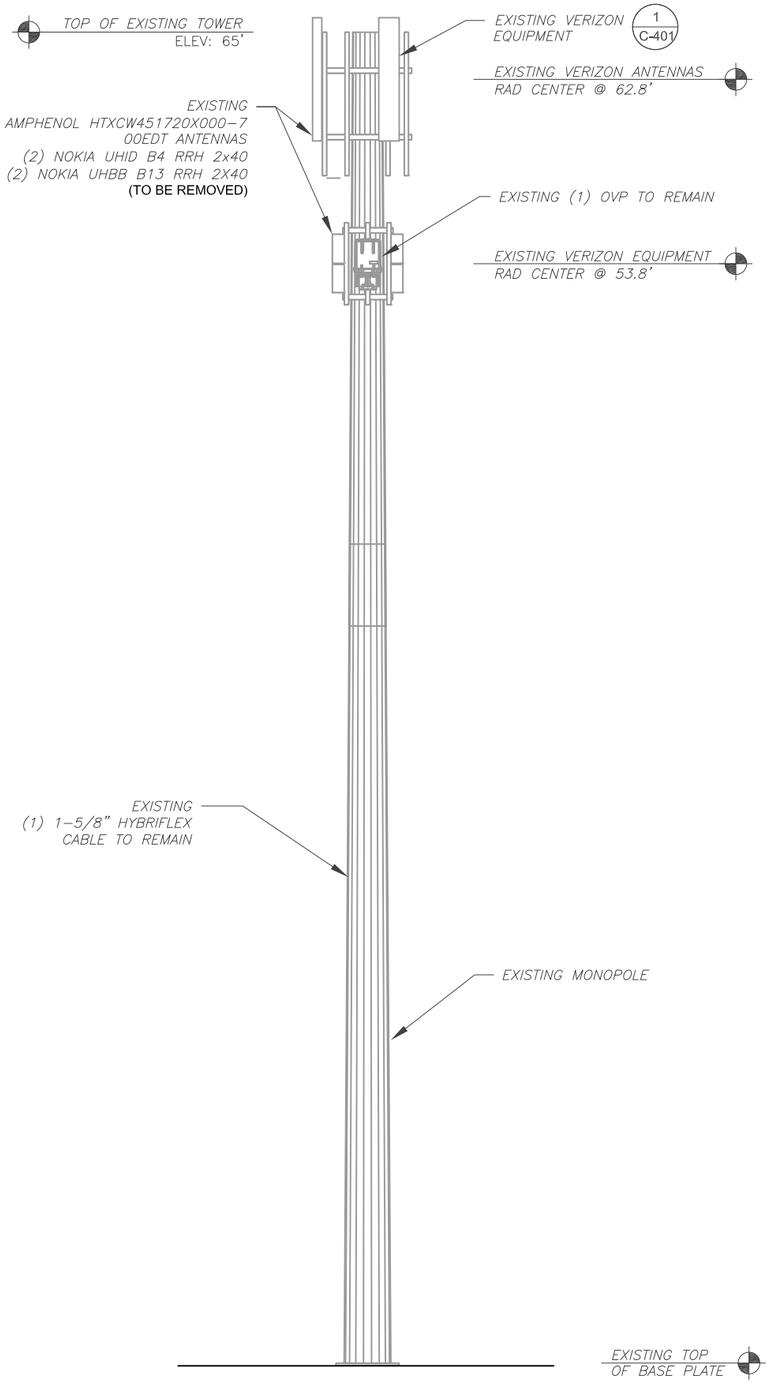
verizon

DATE DRAWN:	05/27/2021
ATC JOB NO:	13657862
CUSTOMER ID:	MOARK
CUSTOMER #:	193015

DETAILED SITE PLAN

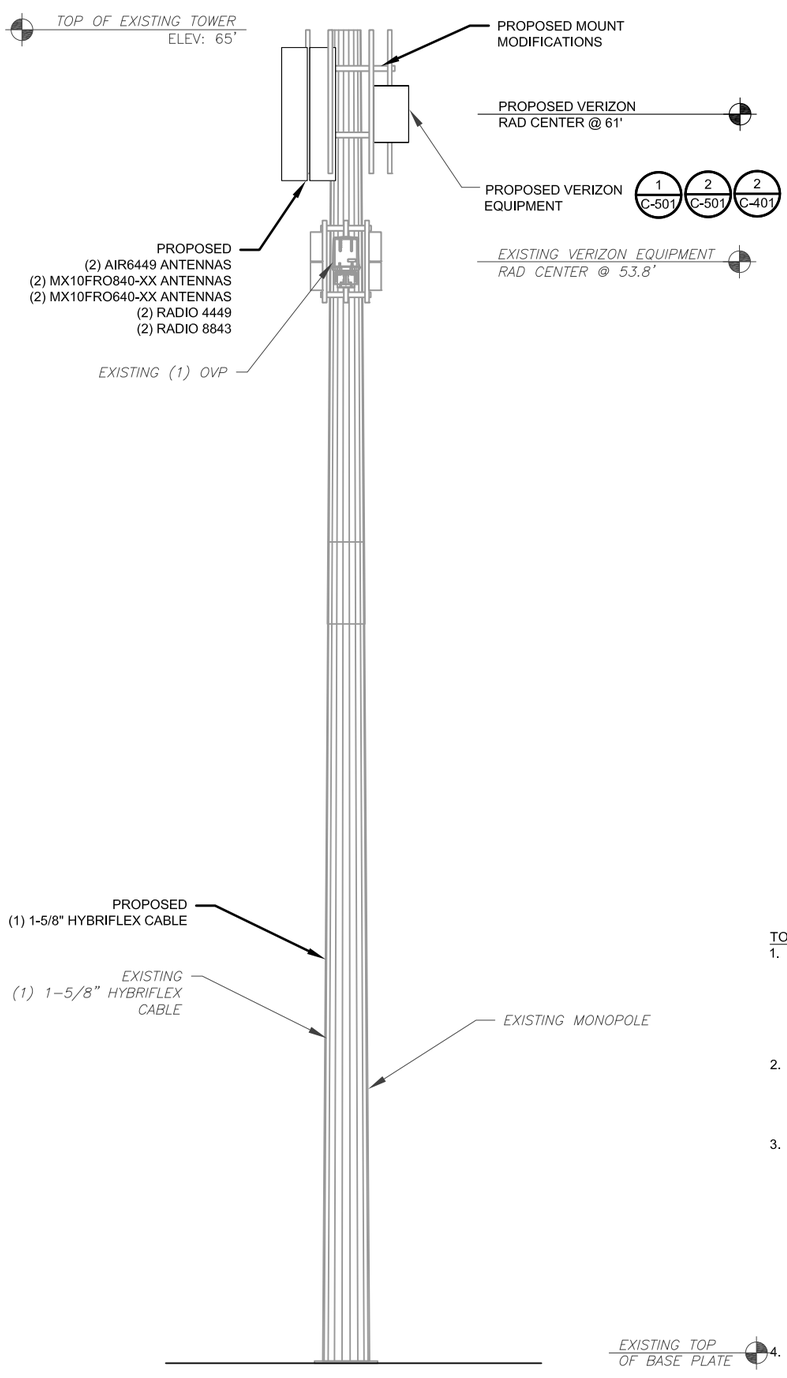
SHEET NUMBER:	REVISION:
C-101	0

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1 EXISTING TOWER ELEVATION

SCALE: N.T.S.



2 PROPOSED TOWER ELEVATION

SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING, DATED 1/21/2021, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT

PER STRUCTURAL ANALYSIS COMPLETED BY ATC, DATED 06/03/2021, THE EXISTING TOWER CAN ADEQUATELY SUPPORT THE PROPOSED LOADING

TOWER NOTE:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
3. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
4. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

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0	FINAL	RV	07/16/21

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416920

ATC SITE NAME:
PRO MOARK UT

VERIZON SITE NAME:
MOARK

SITE ADDRESS:
3815 EAST HIGHWAY 6
SPANISH FORK, UT 84660

SEAL:



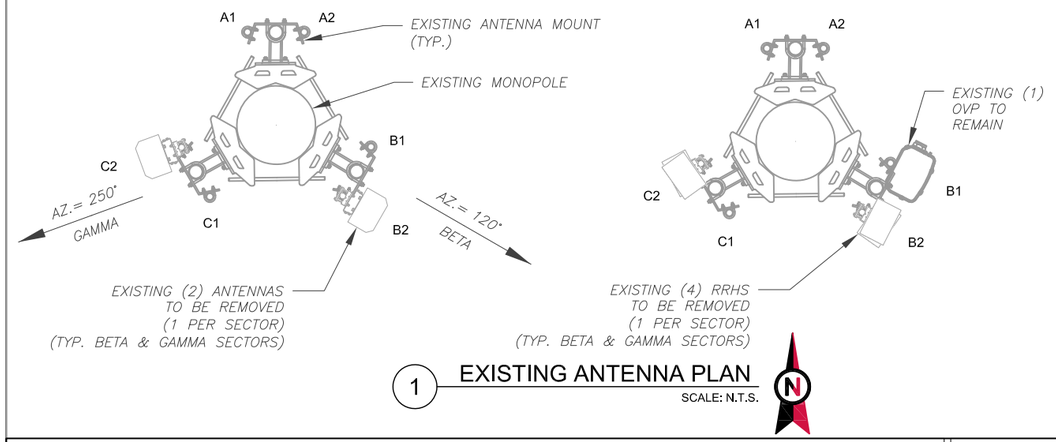
verizon

DATE DRAWN:	05/27/2021
ATC JOB NO:	13657862
CUSTOMER ID:	MOARK
CUSTOMER #:	193015

TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0

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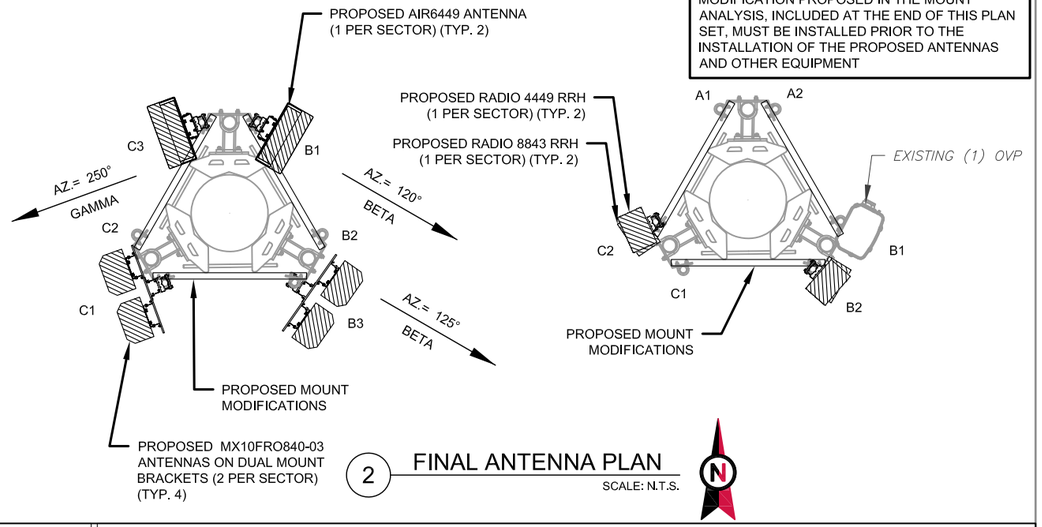


1 EXISTING ANTENNA PLAN

SCALE: N.T.S.

PER STRUCTURAL ANALYSIS COMPLETED BY ATC, DATED 06/03/2021, THE EXISTING TOWER CAN ADEQUATELY SUPPORT THE PROPOSED LOADING

PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING, DATED 1/21/2021, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT



2 FINAL ANTENNA PLAN

SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	62.8'	0°	A1	–	–	–	–	–	–
			A2	–	–	–	–	–	–
BETA	62.8'	120°	B1	–	–	–	–	–	–
			B2	AMPHENOL HTXCW451720X000	LAWS/L700	0/8	–	–	–
	53.8'		–	–	–	–	–	UHBB B13 RRH 2X40 UHID B4 RRH 2X40	RMV RMV
GAMMA	62.8'	250°	C1	–	–	–	–	–	–
			C2	AMPHENOL HTXCW451720X000	LAWS/L700	0/8	–	–	–
	53.8'		–	–	–	–	–	UHBB B13 RRH 2X40 UHID B4 RRH 2X40	RMV RMV

NOTES

1. CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG), GC TO CAP ALL UNUSED PORTS.
2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

STATUS ABBREVIATIONS

RMV: TO BE REMOVED
RMN: TO REMAIN
REL: TO BE RELOCATED
ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15'
RRU TO ANTENNA: 10'

FINAL ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
BETA	61'	120°	B1	ERICSSON AIR 6449 B77D	L 700/L 850/L AWS/L AWS 3	0/2	ADD	-	-
			B2	-	-	-	-	-	-
		125°	B3	JMA MX10FRO640-XX	L 700/L 850/L AWS/L AWS 3	0/4	ADD	-	-
				JMA MX10FRO640-XX	L 700/L 850/L AWS/L AWS 3	0/4	ADD	-	-
	53.8'	-	-	-	-	-	-	RADIO 4449 RADIO 8843	ADD ADD
GAMMA	61'	250°	C1	JMA MX10FRO640-XX	L 700/L 850/L AWS/L AWS 3	0/4	ADD	RADIO 8843	ADD
				JMA MX10FRO640-XX	L 700/L 850/L AWS/L AWS 3	0/4	ADD	RADIO 8843	ADD
			C2	-	-	-	-	-	-
			C3	ERICSSON AIR 6449 B77D	L 700/L 850/L AWS/L AWS 3	0/2	ADD	-	-
	53.8'	-	-	-	-	-	-	RADIO 4449 RADIO 8843	ADD ADD

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(1) RCMDC-6627-PF-48 OVP	RMN	–	(1) 1-5/8" HYBRIFLEX	RMN

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
-	-	-	(1) 1-5/8" HYBRIFEX	ADD
(1) RCMDC-6627-PF-48 OVP	RMN	–	(1) 1-5/8" HYBRIFLEX	RMN

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A	PRELIM	HK	05/27/21
0	FINAL	RV	07/16/21

ATC SITE NUMBER:
416920

ATC SITE NAME:
PRO MOARK UT

VERIZON SITE NAME:
MOARK

SITE ADDRESS:
3815 EAST HIGHWAY 6
SPANISH FORK, UT 84660

SEAL:



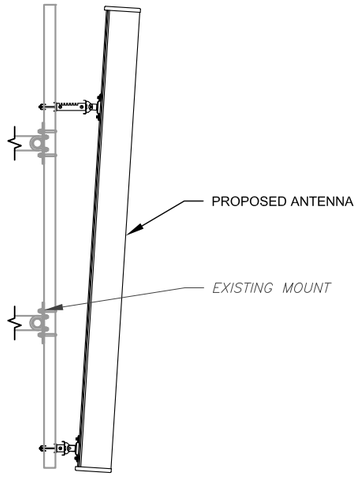
verizon

DATE DRAWN:	05/27/2021
ATC JOB NO:	13657862
CUSTOMER ID:	MOARK
CUSTOMER #:	193015

ANTENNA INFORMATION & SCHEDULE

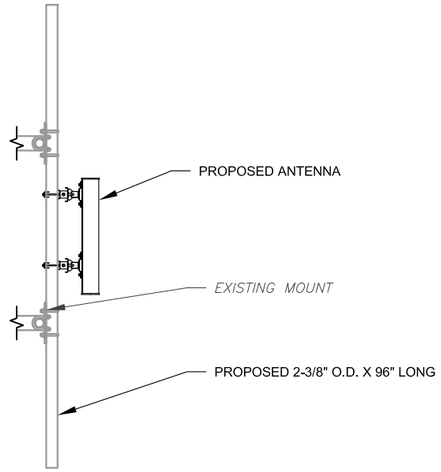
SHEET NUMBER:	REVISION:
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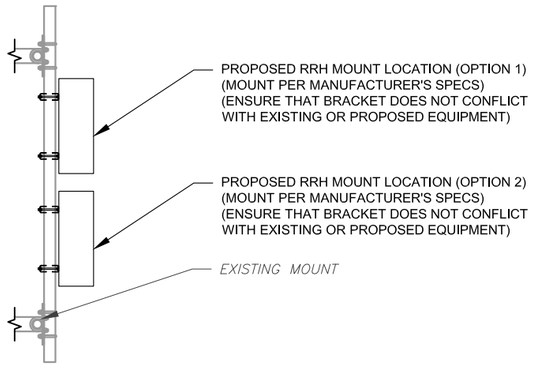
1 PROPOSED ANTENNA MOUNTING DETAIL

SCALE: N.T.S.



2 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.



3 PROPOSED RRU MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.

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SPANISH FORK, UT 84660

SEAL:

PROFESSIONAL ENGINEER
No. 10593212
MICHAEL LEEPER
STATE OF UTAH

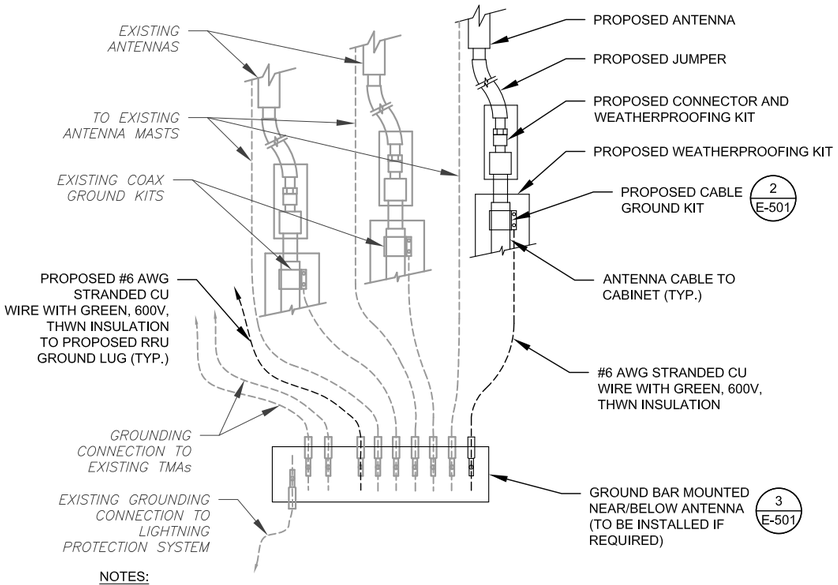
verizon

DATE DRAWN:	05/27/2021
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CUSTOMER #:	193015

CONSTRUCTION DETAILS

SHEET NUMBER:	REVISION:
C-501	0

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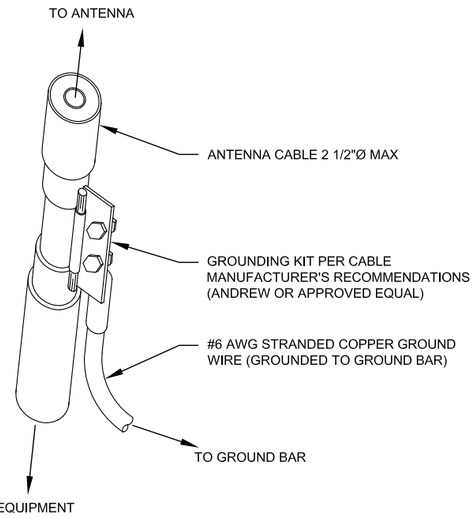


NOTES:

1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH VERIZON GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

1 TYPICAL ANTENNA GROUNDING DIAGRAM

SCALE: N.T.S.

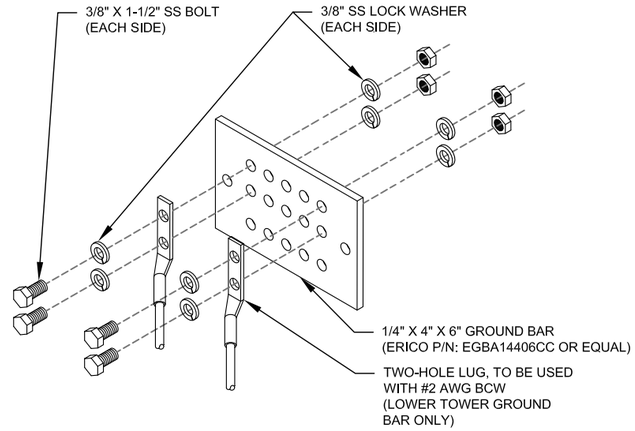


GROUND KIT NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL

SCALE: N.T.S.



GROUND BAR NOTES:

1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL

SCALE: N.T.S.

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SPANISH FORK, UT 84660

SEAL:



verizon

DATE DRAWN:	05/27/2021
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CUSTOMER ID:	MOARK
CUSTOMER #:	193015

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0

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Antenna Summary

Added

700	850	1900	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub(	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity
LTE	LTE	LTE	LTE	LTE							JMA	MX10FRO640	61	63.985416666(	125(02)	true	true	PHYSICAL	2
LTE	LTE	LTE	LTE	LTE							JMA	MX10FRO840-xx	61	64.995833333	250(03)	true	true	PHYSICAL	2
											Ericsson	AIR6449	61	63.083333333	120(0002) 250(0003)	false	false	PHYSICAL	2

Removed

700	850	1900	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub(	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity
LTE											AMPHENOL	HTXCW451720X000-700EDT (141053)	62	65.5	120(02)	false	false	PHYSICAL	1
LTE											AMPHENOL	HTXCW451720X000-708EDT (197445)	62	65.5	250(03)	false	false	PHYSICAL	1
			LTE								AMPHENOL	HTXCW451720X000-AP0EDT (141052)	58	61.5	120(02)	false	false	PHYSICAL	1
			LTE								AMPHENOL	HTXCW451720X000-A5EDT (163330)	58	61.5	250(03)	false	false	PHYSICAL	1

Retained

700	850	1900	AWS	AWS3	28 GHz	31 GHz	39 GHz	CBRS	LAA	L-Sub(	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity

No data available.

Added: 6 **Removed:** 4 **Retained:** 0

Equipment Summary

Added

Equipment Type	Location	700	850	1900	AWS	AWS3	28 GH:	31 GHz	39 GH:	CBRS	LAA	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity
RRU	Tower	LTE	LTE										Ericsson	4449			PHYSICAL	2
RRU	Tower			LTE	LTE	LTE							Ericsson	8843			PHYSICAL	2
RRU	Tower												Ericsson	VZE01			PHYSICAL	2

Removed

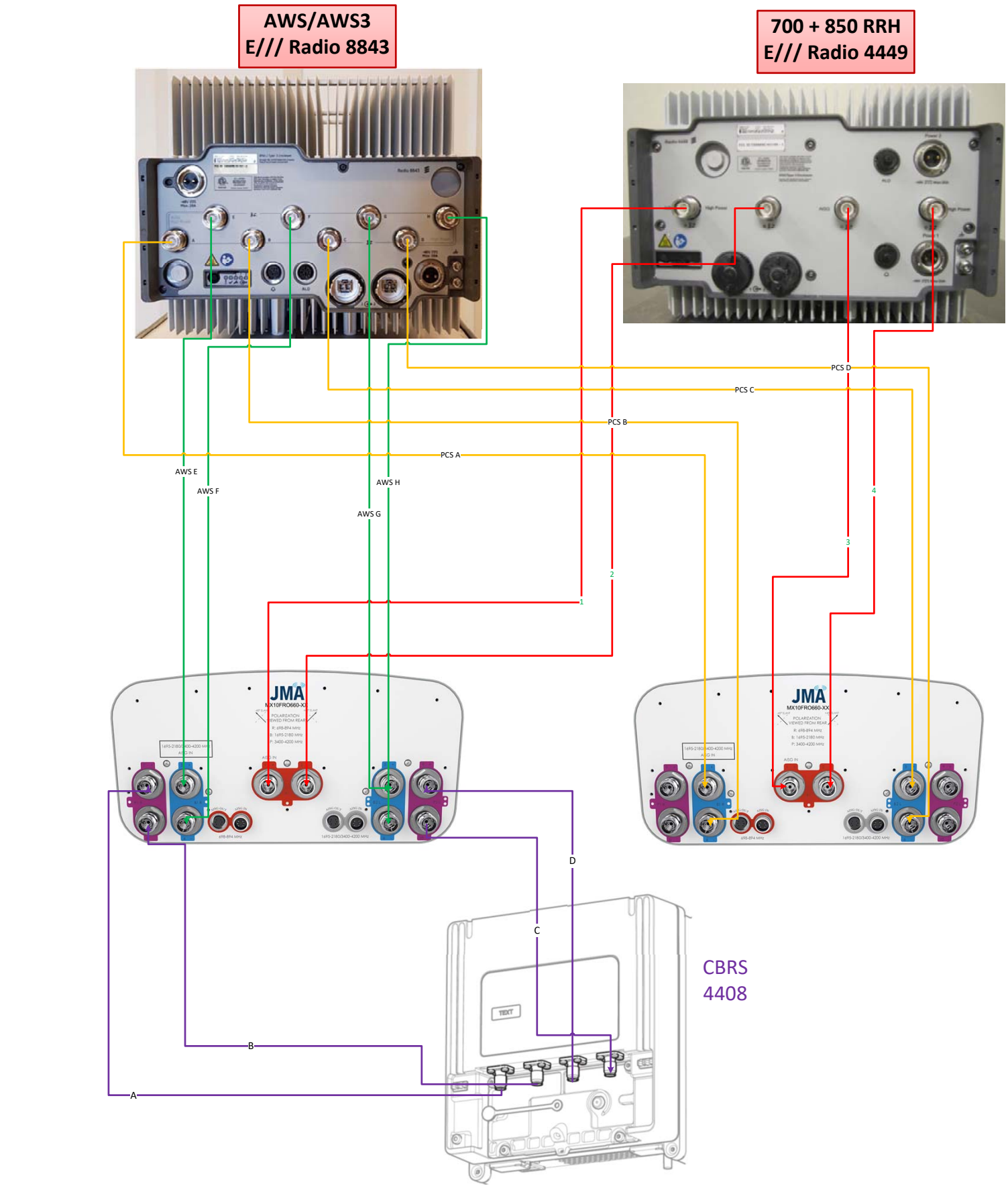
Equipment Type	Location	700	850	1900	AWS	AWS3	28 GH:	31 GHz	39 GH:	CBRS	LAA	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity
RRU	Tower	LTE											Nokia	UHBB B13 RRH 2x40			PHYSICAL	2
RRU	Tower				LTE								Nokia	UHID B4 RRH 2x40			PHYSICAL	2

Retained

Equipment Type	Location	700	850	1900	AWS	AWS3	28 GH:	31 GHz	39 GH:	CBRS	LAA	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity

No data available.

JMA MX 10 FRO 4/6/8 60-XX
2x 10-Port Antennas + 2x RRHs per sector



PROJECT NOTES

1. SEE MODIFICATION NOTES
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
11. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

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verizon

MOUNT MODIFICATION DRAWINGS
EXISTING 1' SIDE ARM MOUNT

SITE NAME: MOARK
SITE NUMBER: 193015

3815 EAST HIGHWAY 6
SPANISH FORK, UT 84660
UTAH COUNTY

PROJECT INFORMATION

SITE INFORMATION	
LATITUDE:	40.085172° N
LONGITUDE:	111.591589° W
JURISDICTION	UTAH COUNTY
APPLICANT/LESSEE	
COMPANY	VERIZON WIRELESS
CLIENT REPRESENTATIVE	
COMPANY	VERIZON WIRELESS
ADDRESS	126 WEST GEMINI DRIVE
CITY, STATE, ZIP	TEMPE, AZ 85283
CONTACT	SABRINA LANCASTER
E-MAIL	SABRINA.LANCASTER@VERIZONWIRELESS.COM
PROJECT MANAGER	
COMPANY	MASER CONSULTING
CONTACT	KRISTINA ROSS
PHONE	(615) 686-2575
E-MAIL	KROSS@MASERCONSULTING.COM

SHEET INDEX

SHEET	DESCRIPTION
T-1	TITLE SHEET
S-1	BILL OF MATERIALS
S-2	MODIFICATION NOTES
S-3	MODIFICATION NOTES
S-4	MODIFICATION DETAILS
S-5	MODIFICATION DETAILS
S-6	MODIFICATION DETAILS
S-7	MODIFICATION DETAILS
S-8	MOUNT PHOTOS
	SPECIFICATION SHEETS

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #	10035003 & 10035018
VZW LOCATION CODE (PSLC)	193015
FUZE ID	16270324

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

REFERENCED DOCUMENTS

FAILING MOUNT ANALYSIS REPORT

SMART TOOL PROJECT #	10025733 & 10031427
MASER CONSULTING PROJECT #	20779216A
ANALYSIS DATE	01/07/2021

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JOB NUMBER: 20779216A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	1/20/2021	ISSUED FOR CONSTRUCTION	JRF	DX

REGISTERED PROFESSIONAL ENGINEER
No. 11182129
DEJIAN XU
STATE OF UTAH
Dejian Xu
UTAH PROFESSIONAL ENGINEER
LICENSE NUMBER: 11182129-2202
MASER CONSULTING, INC.
01/21/2021

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193015
3815 EAST HIGHWAY 6
SPANISH FORK, UT 84660
UTAH COUNTY

MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE: TITLE SHEET

SHEET NUMBER: T-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

M:\Projects\2021\21301\MOARK-Mount MOD.dwg[T-1] By: JPAJIB

BILL OF MATERIALS

VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
18	VZWSMART	VZWSMART-MSK1	CROSSOVER PLATE	

OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
9	-	-	48" LONG, P2.0 STD PIPE	GALVANIZED
2	-	-	102" LONG, P2.5 STD PIPE	GALVANIZED

NOTE: ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE

CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM

METROSITE FABRICATORS, LLC

CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM

PERFECTVISION

CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM

SABRE INDUSTRIES, INC.

CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM

SITE PRO 1

CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

NOTE: WHEN SPECIFIED, VZWSMART KITS SHALL BE REQUIRED AND WILL BE VERIFIED DURING THE DESKTOP PMI

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SHEET TITLE: BILL OF MATERIALS

SHEET NUMBER: S-1

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GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
6. 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 GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
12. DO NOT SCALE DRAWINGS.
13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
15. THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

DESIGN LOADS

WIND LOADS

a. BASIC WIND SPEED (3 SECOND GUST), V = 103 MPH

b. EXPOSURE CATEGORY C

c. TOPOGRAPHIC CATEGORY 1

d. MEAN BASE ELEVATION (AMSL) = 4791.96'

ICE LOADS

a. ICE WIND SPEED (3 SECOND GUST), V = 40 MPH

b. ICE THICKNESS = 0.25 IN

SEISMIC LOADS

a. SHORT TERM MCER GROUND MOTION, S_S = 1.328

b. LONG TERM MCER GROUND MOTION, S_1 = 0.496

STRUCTURAL STEEL

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
   a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
   b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
   c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:

CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO KROSS@MASERCONSULTING.COM
   b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
9. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
10. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS 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.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
13. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

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MT. LAUREL OFFICE
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Mount Laurel, NJ 08054

Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE : MODIFICATION NOTES

SHEET NUMBER : S-2

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

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MODIFICATION INSPECTION NOTES

MI CHECKLIST	
CONSTRUCTION/ INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY EOR)	REPORT ITEM
PRE-CONSTRUCTION	
X	MI CHECKLIST DRAWING
X	EOR APPROVED SHOP DRAWINGS
NA	FABRICATION INSPECTION
NA	FABRICATOR CERTIFIED WELD INSPECTION
X	MATERIAL TEST REPORT (MTR)
NA	FABRICATOR NDE INSPECTION
X	PACKING SLIPS
ADDITIONAL TESTING AND INSPECTIONS:	
CONSTRUCTION	
X	CONSTRUCTION INSPECTIONS
NA	CONTRACTOR'S CERTIFIED WELD INSPECTION AND NDE REPORTS
X	ON SITE COLD GALVANIZING VERIFICATION
X	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS:	
POST-CONSTRUCTION	
X	MI INSPECTOR REDLINE OR RECORD DRAWING(S)
X	VZW PMI DOCUMENTS
X	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

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

THE MODIFICATION INSPECTION (MI) IS A VISUAL INSPECTION OF MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR).

THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, NOR DOES THE MI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES.

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.

MI INSPECTOR

THE MI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE MI TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS

THE MI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GC INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE MI REPORT TO EOR.

GENERAL CONTRACTOR

THE GC IS REQUIRED TO CONTACT THE MI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MI INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS

THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MI CHECKLIST.

RECOMMENDATIONS

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

- IT IS SUGGESTED THAT THE GC 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.
- IT MAY BE BENEFICIAL TO INSTALL ALL MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTIONS TO ALLOW THE FOUNDATION AND MI INSPECTION(S) TO COMMENCE WITH ONE SITE VISIT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY 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.

CORRECTION OF FAILING MI'S

IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI ("FAILED MI"), THE GC SHALL WORK WITH THE OWNER TO COORDINATE A REMEDIATION PLAN:

- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

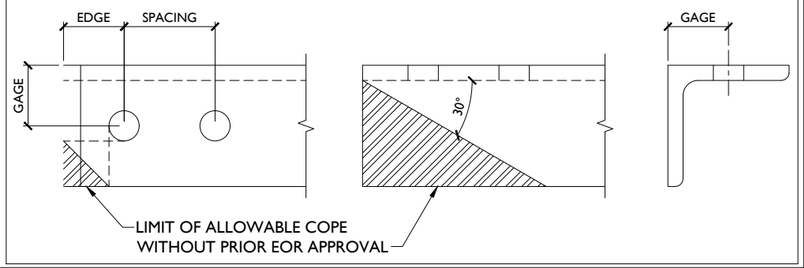
REQUIRED PHOTOS

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

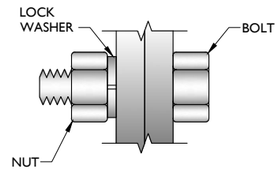
PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

ALLOWABLE COPING



BOLT SCHEDULE (IN.)				
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 11/16	7/8	1 1/2
5/8	11/16	11/16 x 7/8	1 1/8	1 7/8
3/4	13/16	13/16 x 1	1 1/4	2 1/4
7/8	15/16	15/16 x 1 1/8	1 1/2	2 5/8
1	1 1/16	1 1/16 x 1 5/16	1 3/4	3

WORKABLE GAGES (IN.)	
LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

NOTES:

1. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
3. SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS
4. MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.

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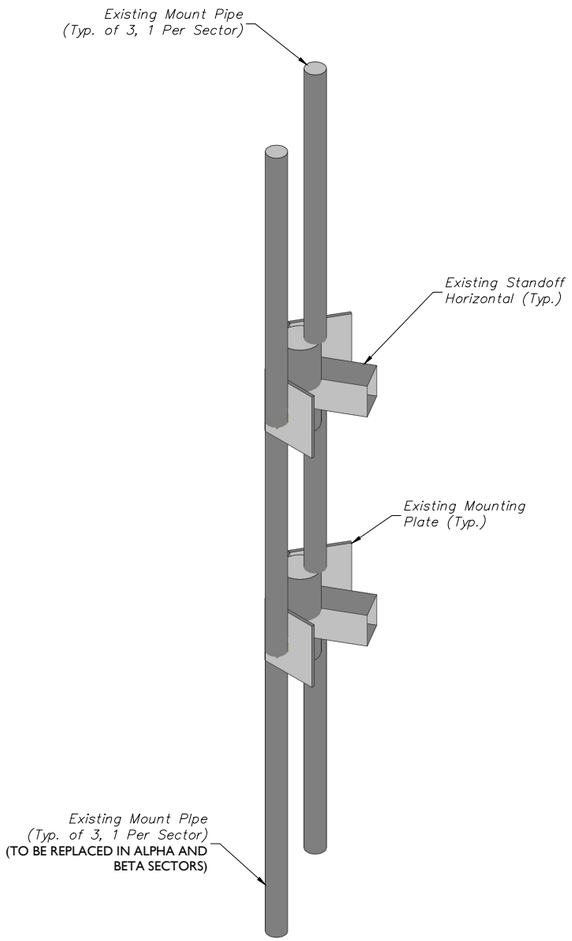
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Fax: 856.722.1120

SHEET TITLE :
MODIFICATION NOTES

SHEET NUMBER :
S-3

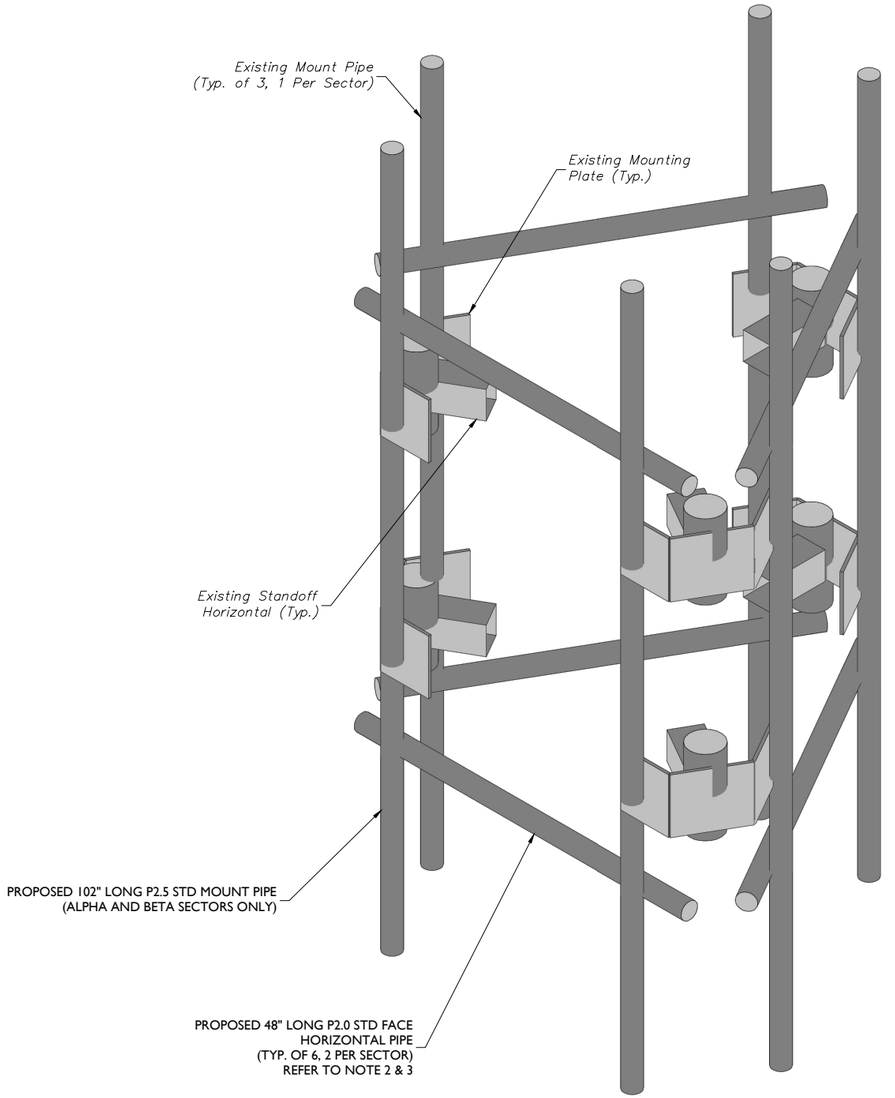
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\\Maser\data - 2779\2779216\MOARK Mount MOD.dwg\S-3 By: JPRASER



1 EXISTING ANTENNA MOUNT ISOMETRIC VIEW (TYP. ALL SECTORS)

SCALE : N.T.S.



2 PROPOSED ANTENNA MOUNT ISOMETRIC VIEW

SCALE : N.T.S.

STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY RKS DESIGN & ENGINEERING LLC ON 12/04/20, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (50'-0" & 60'-10") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
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3. CONNECT NEW HORIZONTALS TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).

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Dejian Xu
UTAH PROFESSIONAL ENGINEER
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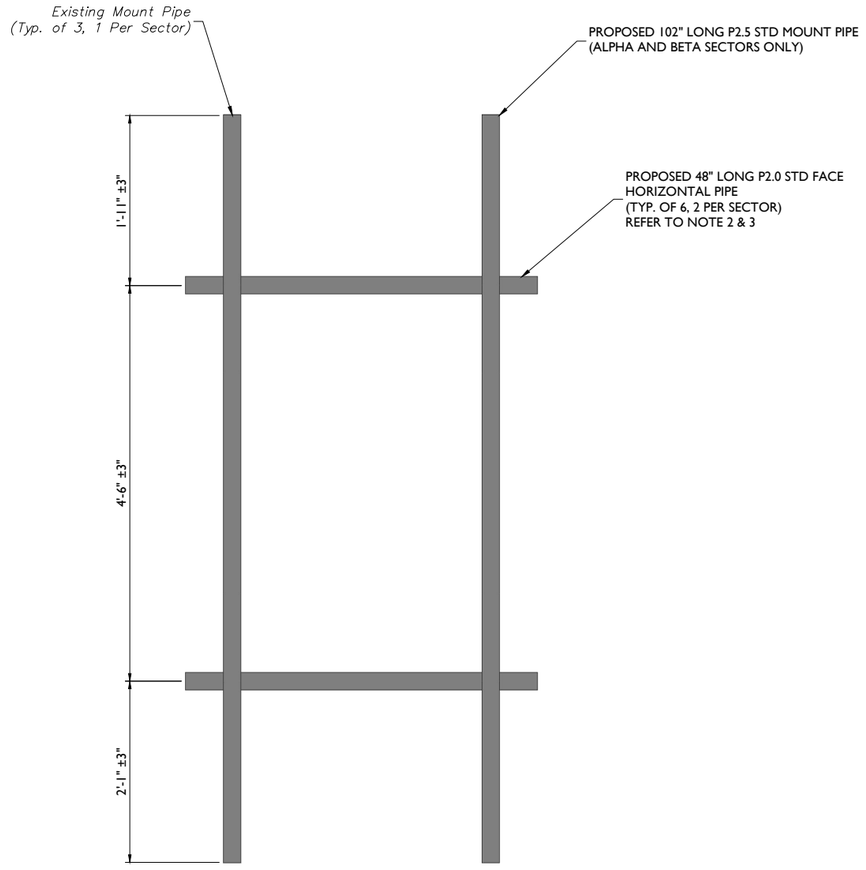
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SHEET TITLE :
MODIFICATION DETAILS

SHEET NUMBER :
S-4

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XLR plotted, 2793139313 MOARK Mount MOD.dwg(C4 By: JPAUER



1 PROPOSED ANTENNA MOUNT FRONT ELEVATION VIEW (TYP. ALL SECTORS)

SCALE : N.T.S.

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Dejian Xu
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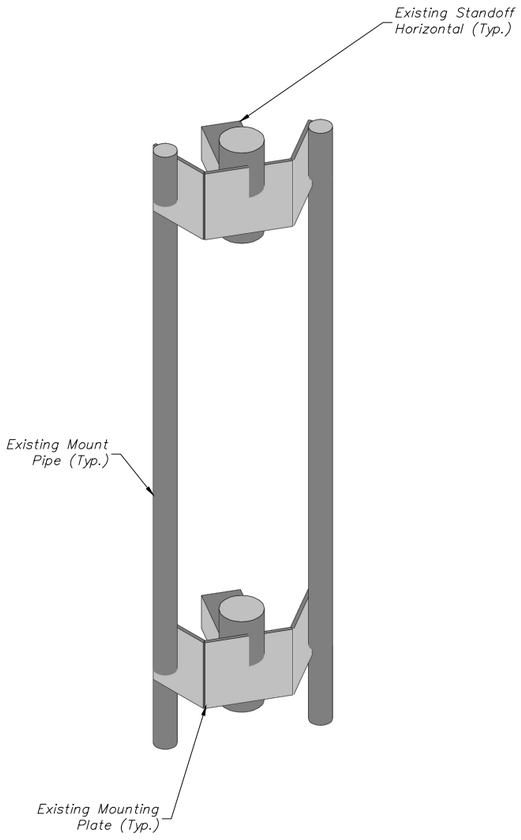
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SHEET TITLE :
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SHEET NUMBER :
S-5

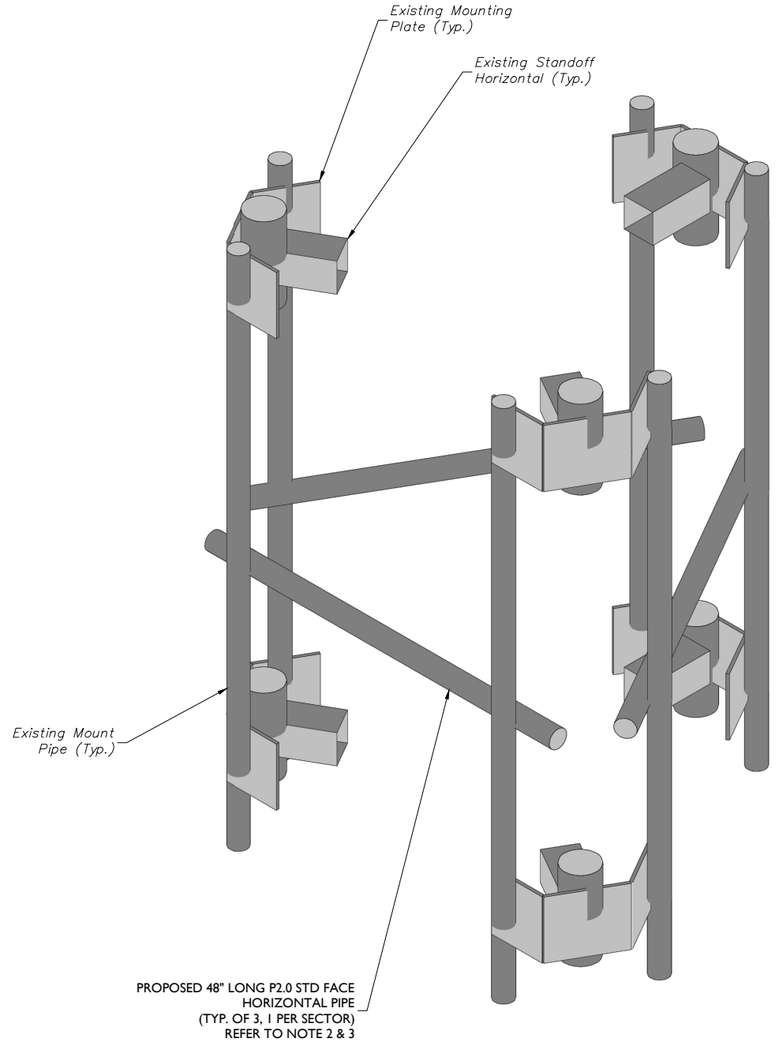
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1 EXISTING RADIO MOUNT ISOMETRIC VIEW (TYP. ALL SECTORS)

SCALE : N.T.S.



2 PROPOSED RADIO MOUNT ISOMETRIC VIEW

SCALE : N.T.S.

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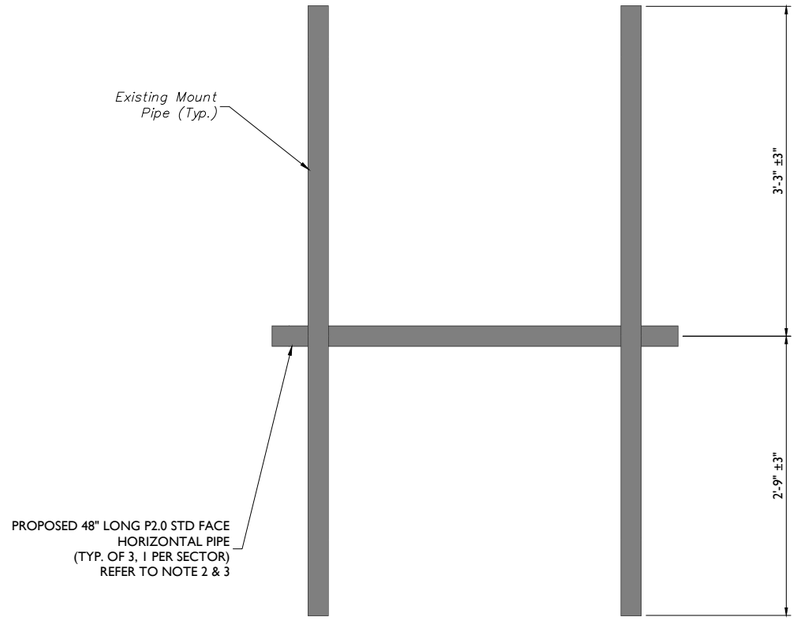
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SHEET TITLE :
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SHEET NUMBER :
S-6

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1 PROPOSED RADIO MOUNT FRONT ELEVATION VIEW (TYP. ALL SECTORS)

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Dejian Xu
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SHEET TITLE :
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SHEET NUMBER :
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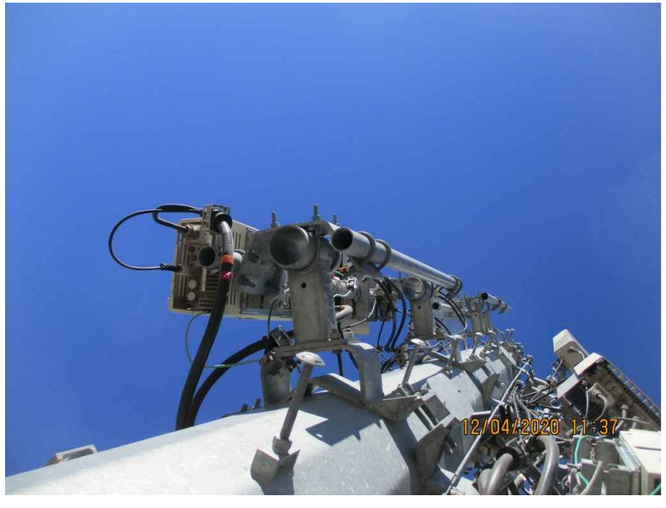
MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4

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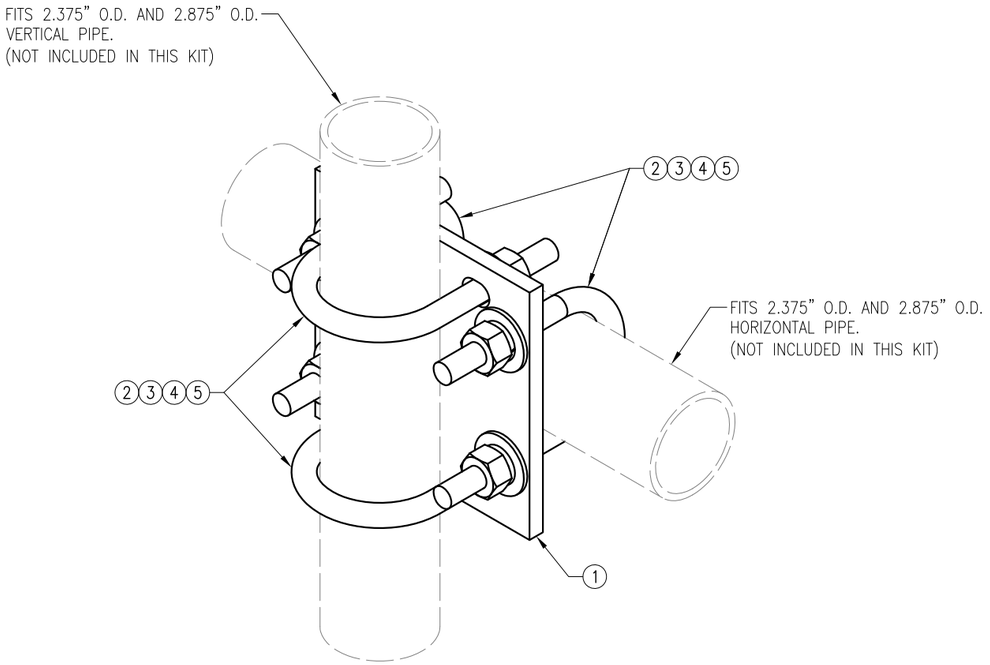
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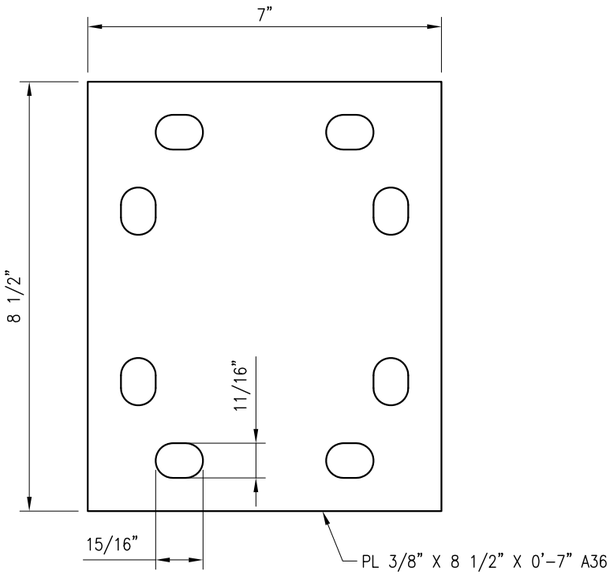
SHEET TITLE : MOUNT PHOTOS

SHEET NUMBER : S-8

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PL375-857

VZWSMART-MSK1 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUT-625	5/8" HDG HEX NUT	---	1
				GALVANIZED WT	14

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

VzW SMART Tool© Vendor

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DRAWN BY: H.R | CHECKED BY: HMA

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	H.R	05/08/20

SHEET TITLE:

VZWSMART-MSK1
CROSSOVER PLATE

SHEET NUMBER: VZWSMART-MSK1

REV #: 0

Project Narrative

Property: 3815 East Highway 6, Spanish Fork, UT 84660

Project: ATC 416920 – Verizon Upgrade

The proposed project includes modifying equipment on an existing commercial cell tower. The scope of work includes:

- Remove (2) Antennas
- Remove (4) RRHs
- Install (6) Antennas
- Install (4) RRHs
- Install (1) 1-5/8" Hybrid Cable
- Install Mount Modifications

There will be no change to the tower height or size of the existing compound. There will be no addition of impervious cover.

_____ 8/23/2021

Signature Date

CONCEPT DESIGN



300 North Duplex Addition Zone Change Approval Request

September 15, 2021, Development Review Committee.

Located at 455 East 300 North, including 0.5 acres.

The subject property is zoned R-1-6.

The General Plan designation is Medium Density Residential.

The applicant has requested a Zone Change to the R-3 Zone with the Infill Overlay Zone.

Key Issues

1. Have the provisions of the Infill Overlay zone been met?
2. Utilities.
3. Masonry Walls.
4. Landscaping.
5. Power.
6. Setbacks.
7. Building Elevations.

Recommendation

That the proposed Zone Change be recommended for approval based on the following findings and subject to the following conditions:

Findings:

1. That the proposal is consistent with the City's General Plan Land Use Map Designation.
2. That with additional details the proposal can meet the intent of the Infill Overlay zone.

Conditions:

1. That the applicant meets the City's Zoning requirements and Construction Standards.
2. That the applicant addresses any red-lines.
3. That the applicant meets any conditions recommended by the DRC and Planning Commission.

Exhibits

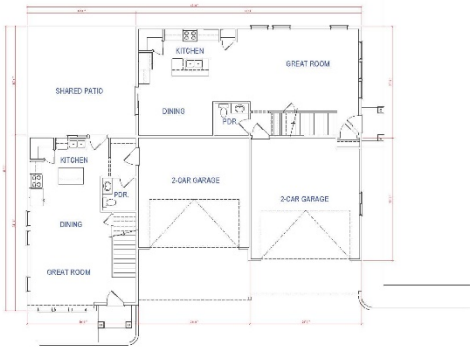
1. Plans.
2. Elevations.
3. Landscape Plan.

CONCEPT DESIGN

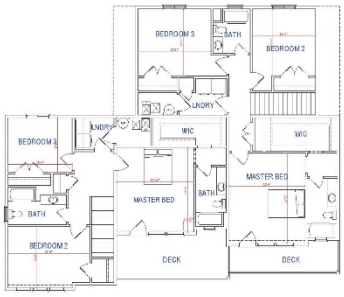


FLOOR PLANS

MAIN



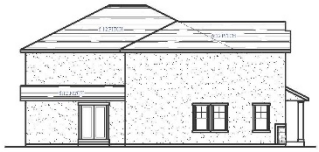
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ELEVATIONS



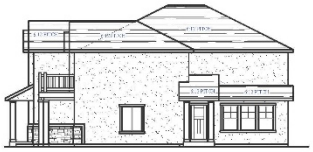
FRONT ELEVATION



LEFT ELEVATION



BACK ELEVATION



RIGHT ELEVATION

PERSPECTIVE VIEWS

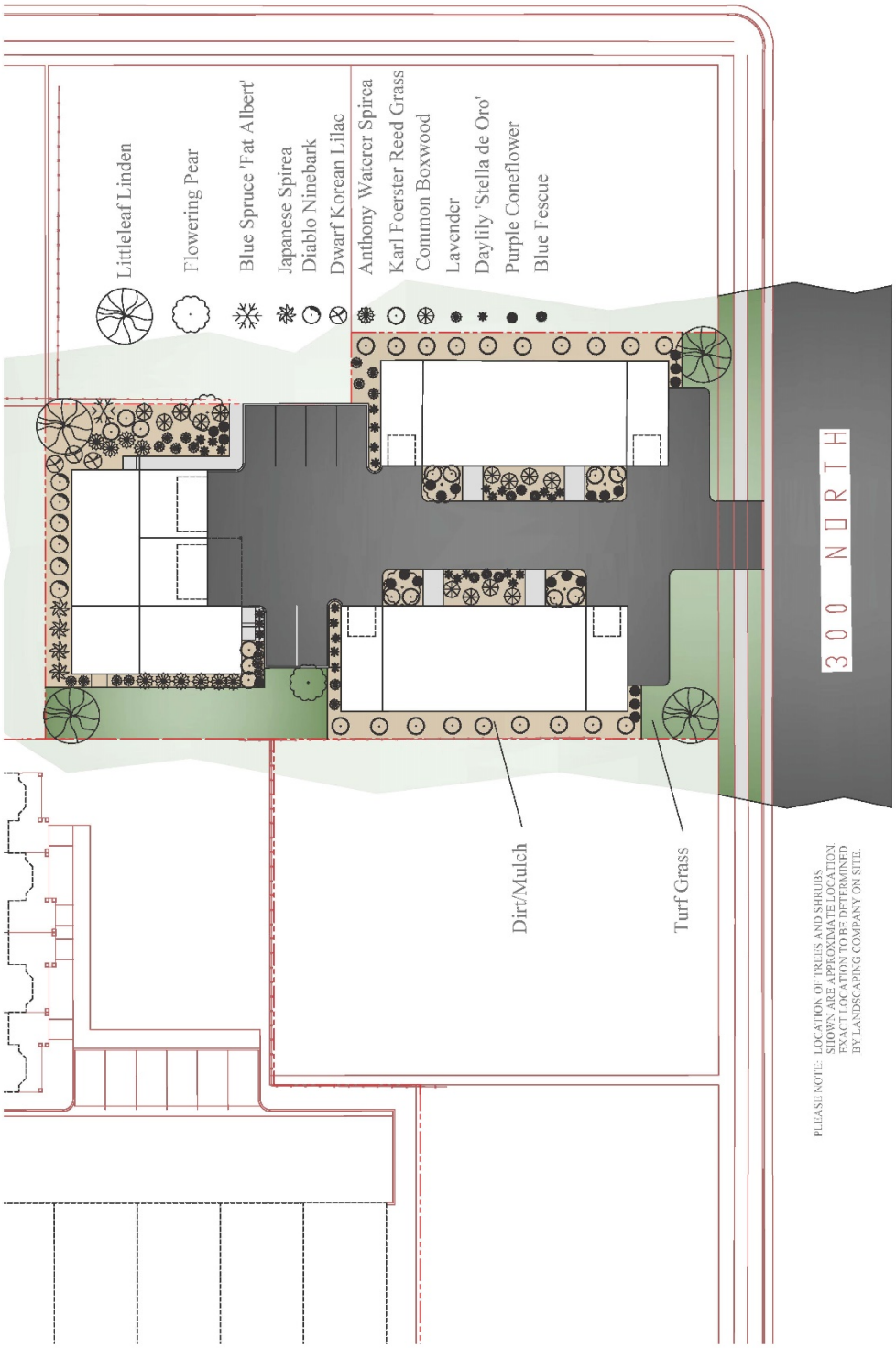








PLANTING PLAN

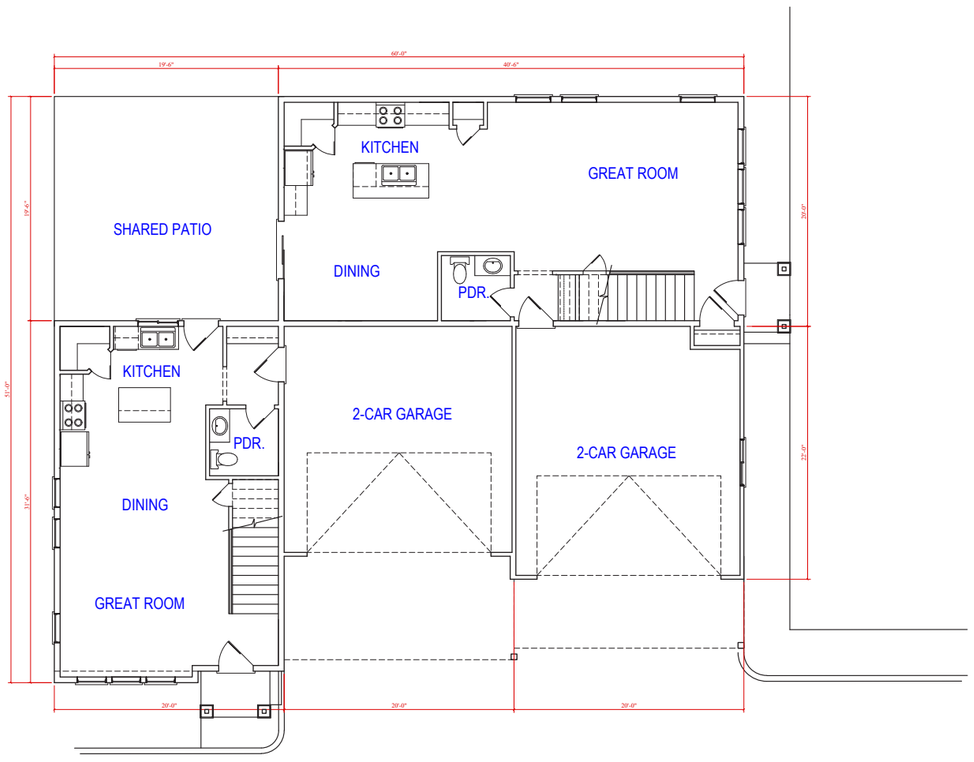


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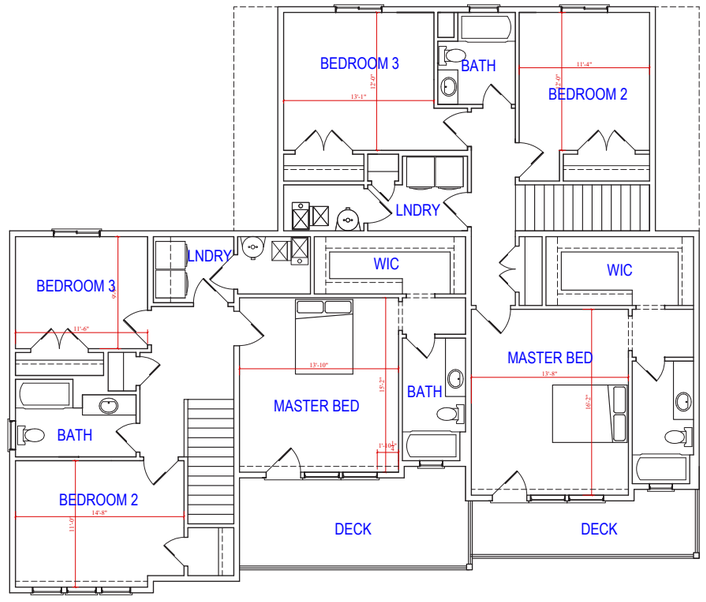


FLOOR PLANS

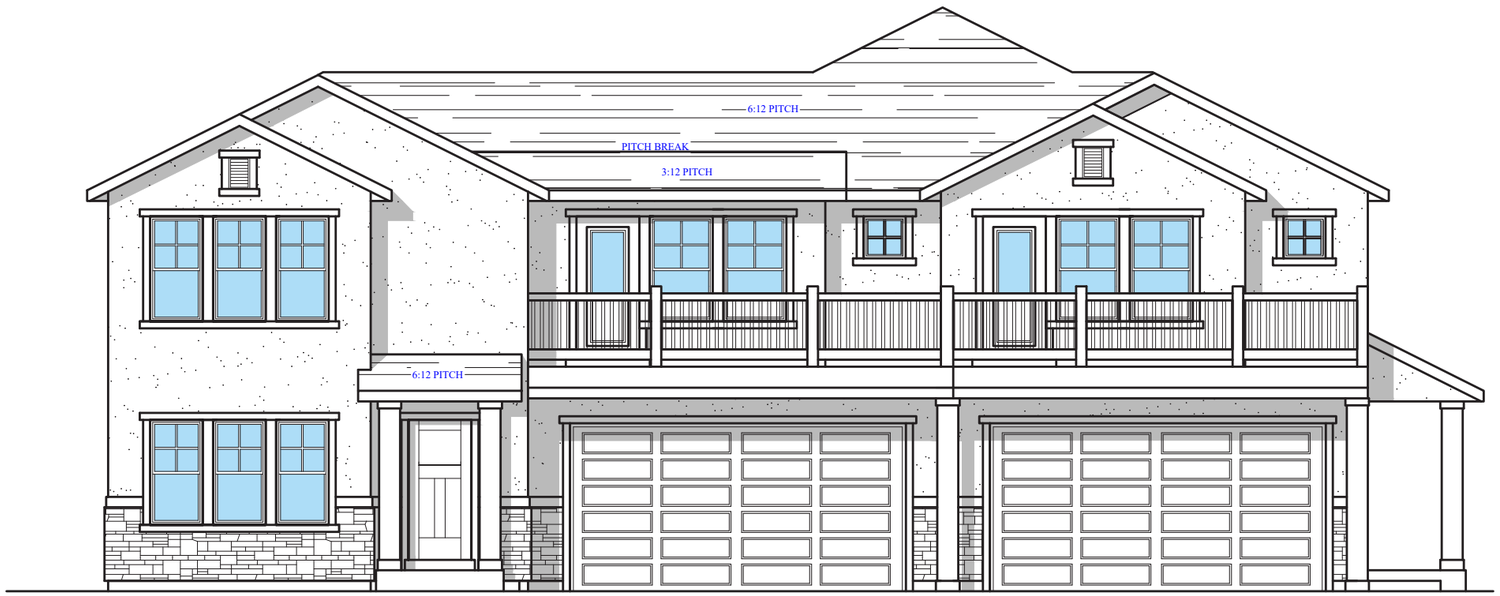
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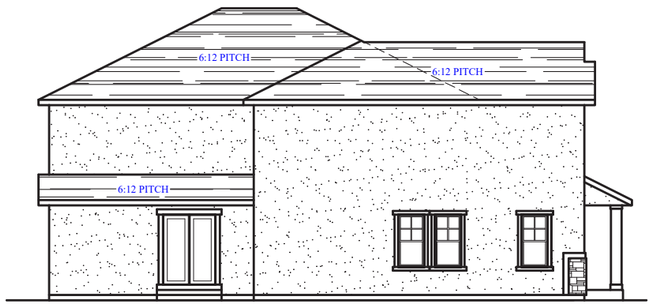
SECOND



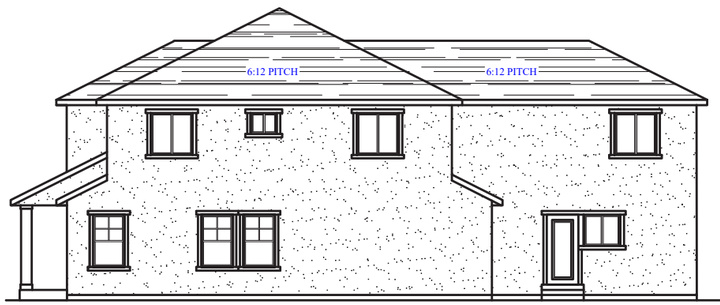
ELEVATIONS



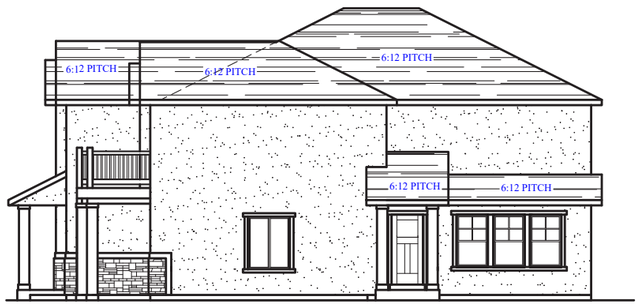
FRONT ELEVATION
11x17: 1/8" SCALE—24X36: 1/4" SCALE



LEFT ELEVATION
11x17: 1/8" SCALE—24X36: 1/4" SCALE

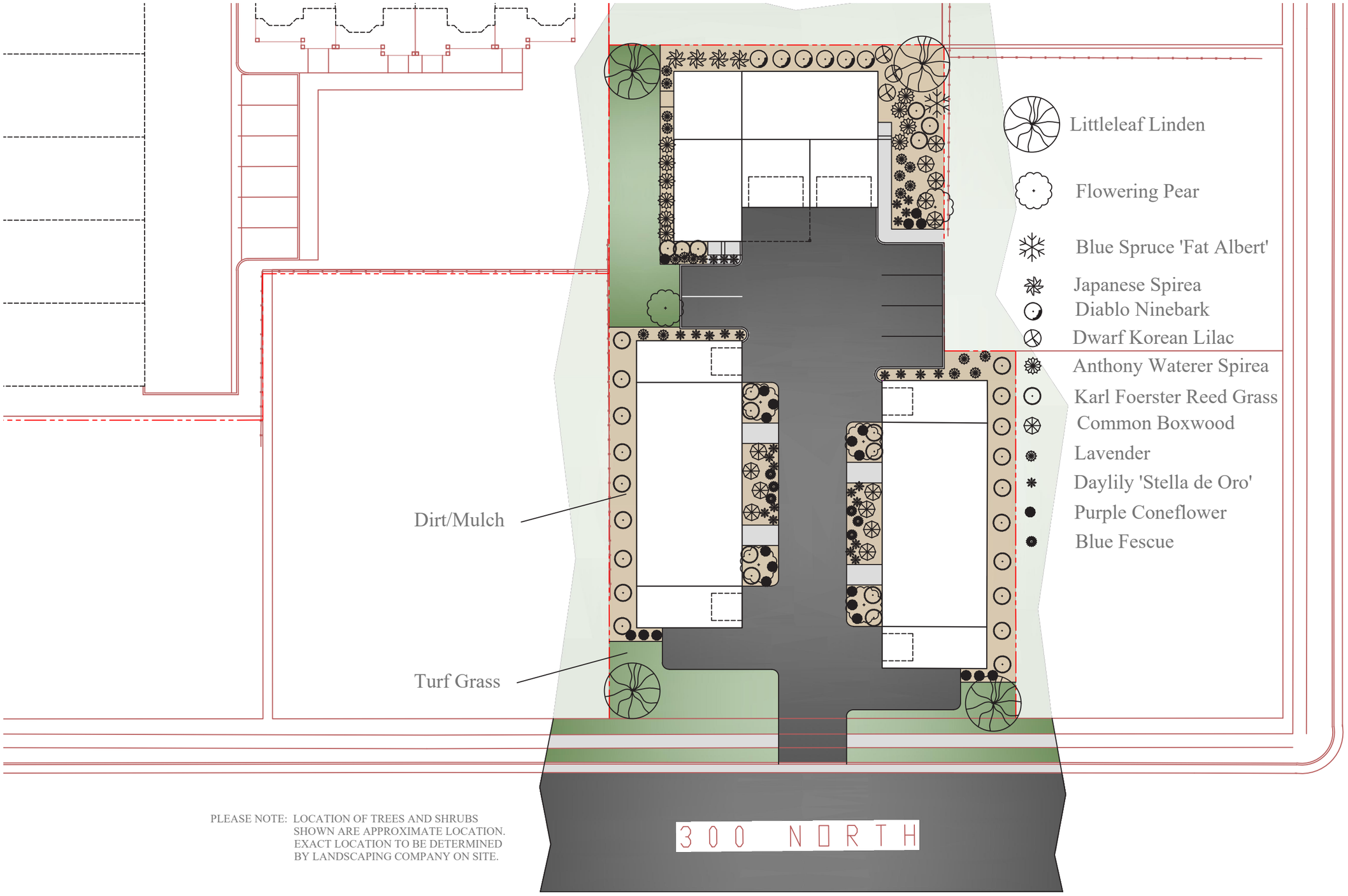


BACK ELEVATION
11x17: 1/8" SCALE-24X36: 1/4" SCALE



RIGHT ELEVATION
11x17: 1/8" SCALE—24X36: 1/4" SCALE

PLANTING PLAN



PLEASE NOTE: LOCATION OF TREES AND SHRUBS SHOWN ARE APPROXIMATE LOCATION. EXACT LOCATION TO BE DETERMINED BY LANDSCAPING COMPANY ON SITE.

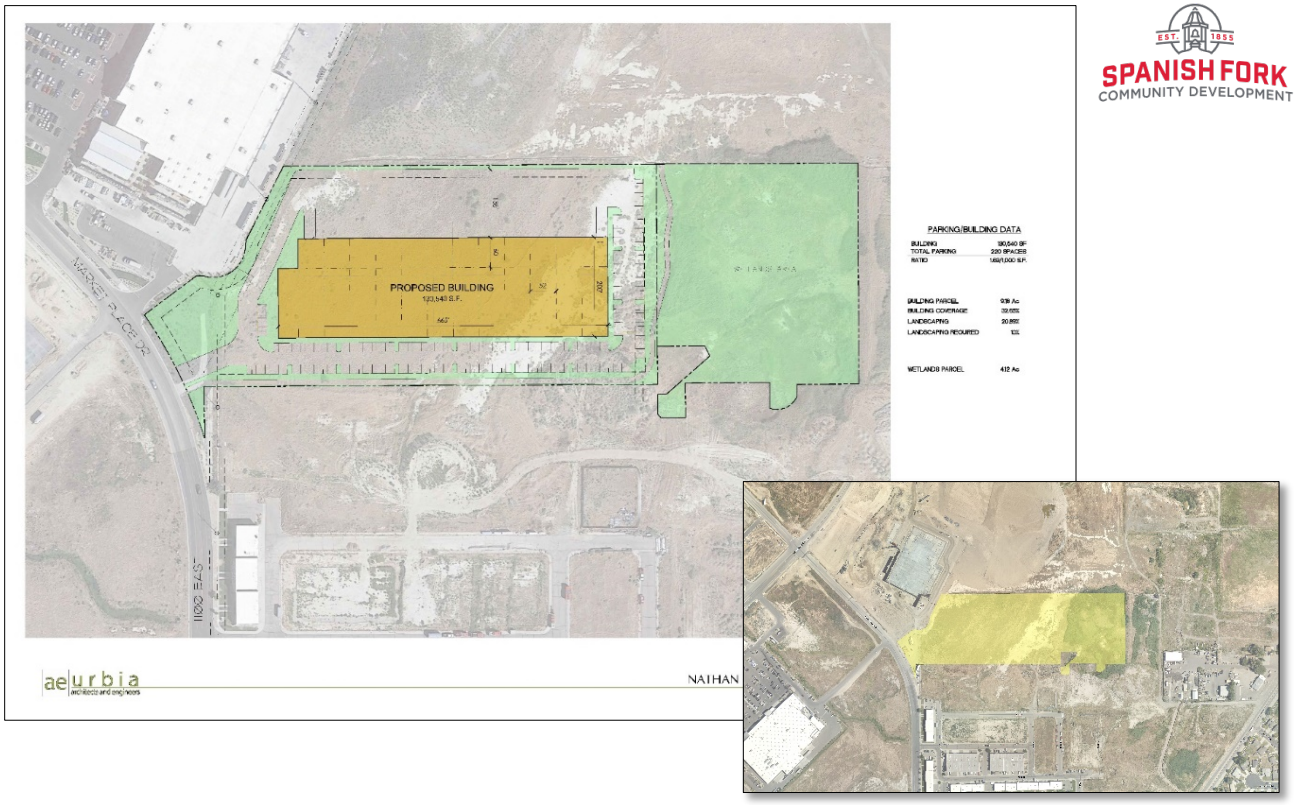
PERSPECTIVE VIEWS











Willowbrook Concept Plan Review

September 15, 2021, Development Review Committee.

Located at 1200 North 1100 East.

The subject property is zoned I-1.

The General Plan designation is Business Park.

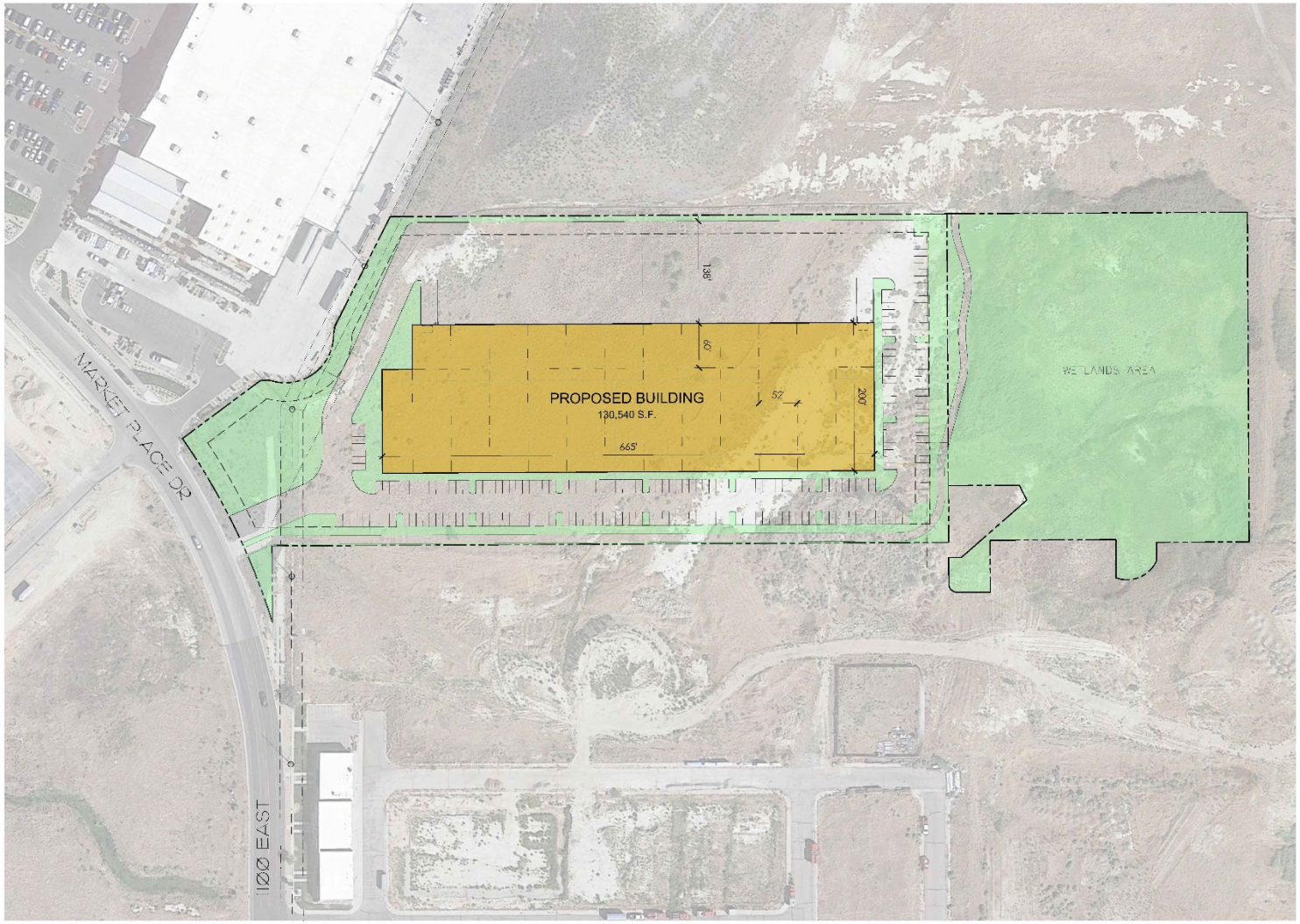
The applicant has requested concept review of a proposed building encompassing 130,540 square feet.

Key Issues

1. Design.
2. Zoning.
3. General Plan Designation.

Exhibits

1. Proposed Concept Plan



PARKING/BUILDING DATA

BUILDING	130,540 SF
TOTAL PARKING	220 SPACES
RATIO	1.69/1,000 S.F.

BUILDING PARCEL	9.18 Ac
BUILDING COVERAGE	32.65%
LANDSCAPING	20.89%
LANDSCAPING REQUIRED	10%

WETLANDS PARCEL	4.12 Ac

CONCEPTUAL SITE PLAN
THIS SITE PLAN IS FOR CONCEPTUAL PLANNING. THE SITE WILL NEED TO BE SURVEYED TO ACCURATELY DEFINE ALL BOUNDARIES, EASEMENTS, UTILITY EASEMENTS, RIGHT-OF-WAYS, CONFIRM ACCESS LOCATIONS, AND WETLANDS.

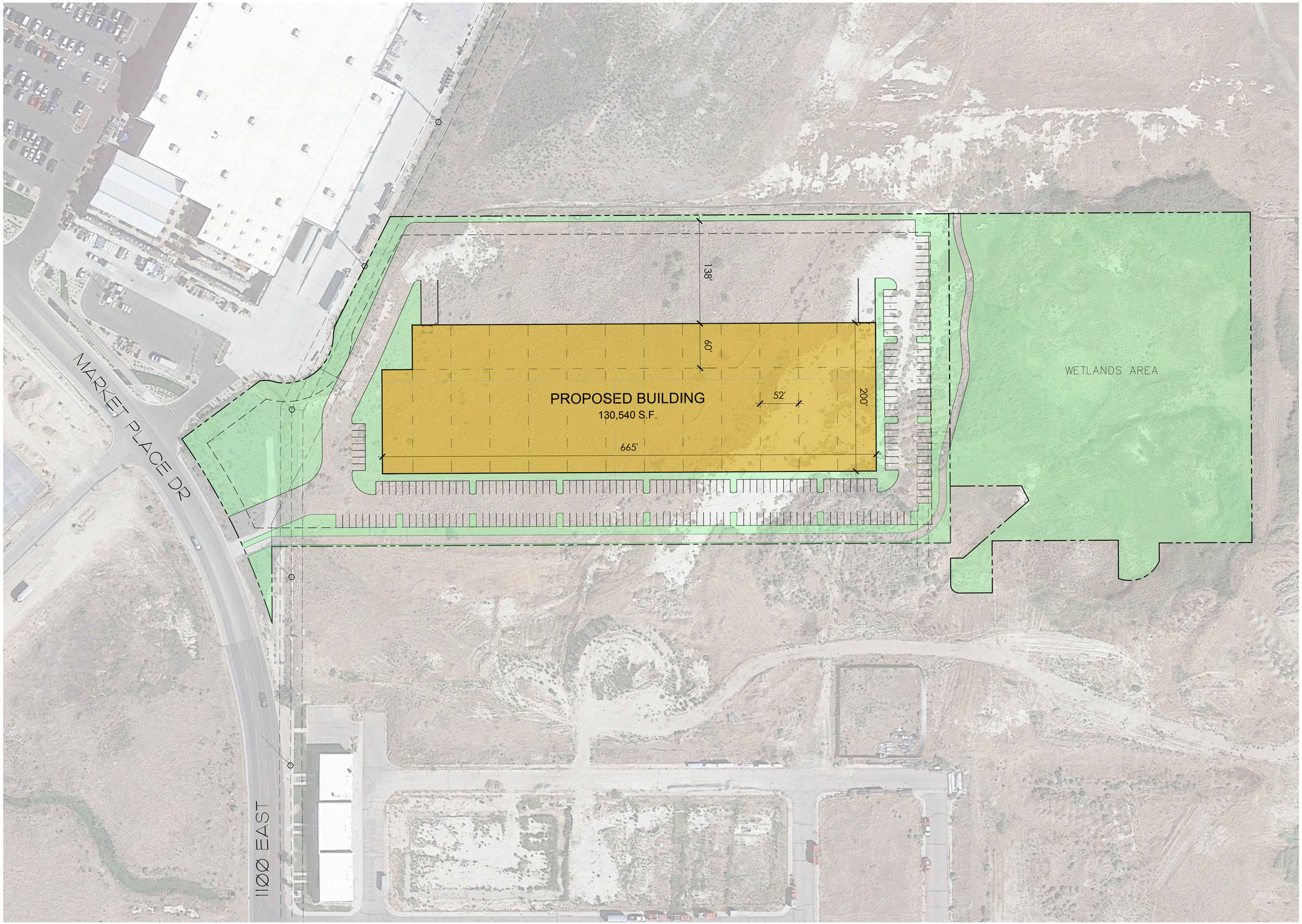
NORTH

0 60 120 180 240
Scale 1:60

aeurbia
architects and engineers

NATHAN RICKS - STACK - Market Place Dr
SPANISH FORK, UTAH

AE2021.399 – SP 02
August 24, 2021



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Scale 1:60

aeurbia architects and engineers

NATHAN RICKS - STACK - Market Place Dr

SPANISH FORK, UTAH

AE2021.399 – SP 02

August 24, 2021

See Map 1



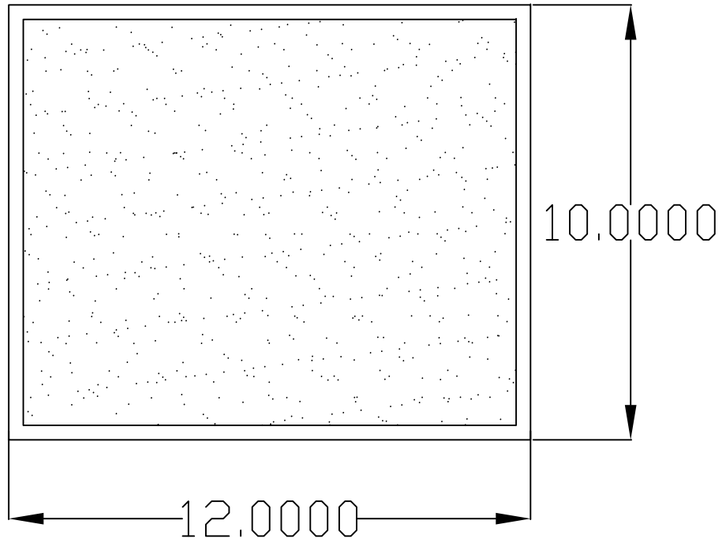
CentraCom

35 S State St
PO Box 7
Fairview, UT
84629

N

MC218123: Proposed location of new 12'x30'x10' cement building on lot 3652 E US 6 Hwy, Spanish Fork, Ut.

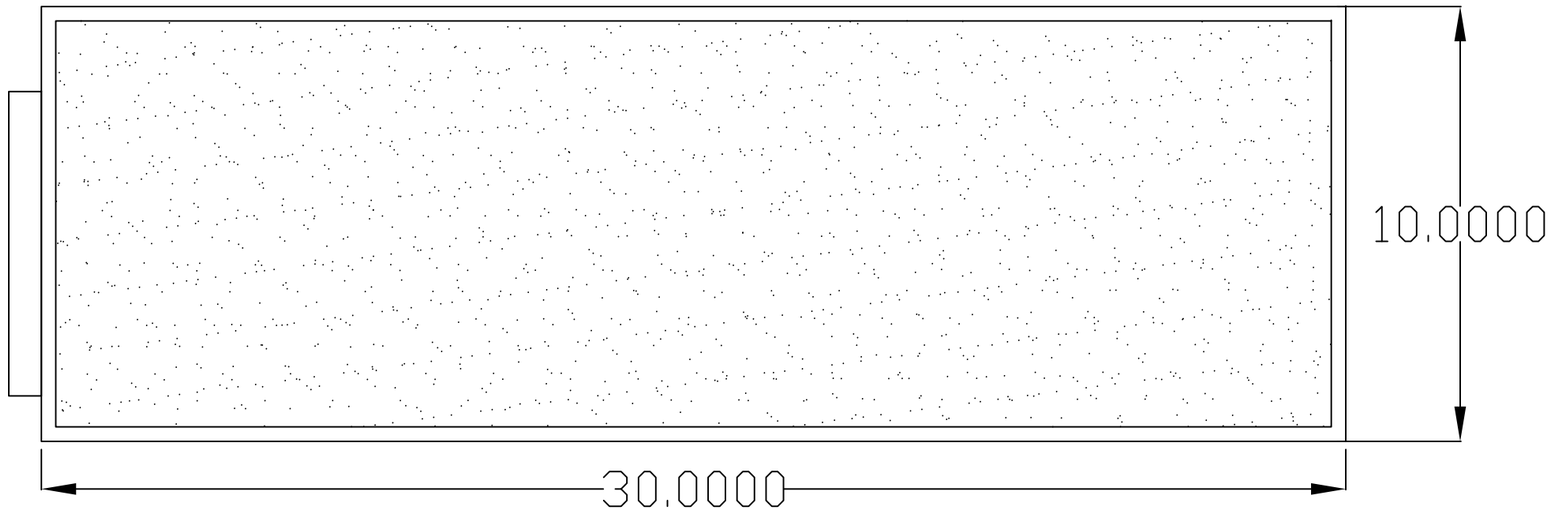
Notes:
1. A 25'x45' fence (chain link with privacy slats) will be installed around the building.
2. Power source for the building is shown.
3. CentraCom handhole for fiber optic service is shown.



Building Side A



Exterior Material



Building Side B

MC218123: Elevation drawing of 12'x30'x10' cement building being placed.

Grounds around building will be cleaned up and maintained by CentraCom.