

# T-Mobile

**SITE #:** PH60907B  
**SITE NAME:** PIMA & HAPPY VALLEY TRAFFIC LIGHT  
**STATE:** ARIZONA  
**COUNTY:** MARICOPA COUNTY  
**DESIGN TYPE:** NEW SITE BUILD

CLIENT

**T-Mobile**

1330 W. SOUTHERN AVE. STE A-102  
 TEMPE, ARIZONA, 85282  
 PHONE: (480) 638-2600 FAX: (480) 638-2852

CONSULTANT

**COAL CREEK**

**CONSULTING**

8283 N. HAYDEN RD., STE 258  
 SCOTTSDALE, ARIZONA 85258  
 PHONE: (480) 429-0533

ENGINEER OF RECORD  
 TERRA DYNAMIC ENGINEERING, LLC



3241 E. SHEA BLVD., SUITE 1, #455  
 PHOENIX, AZ 85028  
 PHONE: (602) 482-1603  
 EMAIL: ROBERT@TERRADYNAMIC.US

SEAL

CODE COMPLIANCE:

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

2021 INTERNATIONAL BUILDING CODE  
 2021 INTERNATIONAL MECHANICAL CODE  
 2020 NATIONAL ELECTRICAL CODE/NFPA-70

ACCESSIBILITY REQUIREMENTS:

THIS FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE CURRENT INTERNATIONAL BUILDING CODE.

PROJECT SUMMARY

SITE ADDRESS:  
 EAST HAPPY VALLEY & N. PIMA RD.  
 SCOTTSDALE, ARIZONA 85255

PROPERTY OWNER:  
 CITY OF SCOTTSDALE  
 7447 E. INDIAN SCHOOL RD.  
 SCOTTSDALE, AZ 85251  
 CONTACT: KEITH NIEDERER  
 EMAIL: KNIEDERER@SCOTTSDALEAZ.GOV

APN: R.O.W  
 ZONING CLASSIFICATION: R1-190  
 JURISDICTION: CITY OF SCOTTSDALE  
 LAT: NEED SURVEYOR TO UPDATE  
 LONG: NEED SURVEYOR TO UPDATE  
 GROUND ELEV: NEED SURVEYOR TO UPDATE

PROJECT DESCRIPTION

T-MOBILE PROPOSES TO INSTALL THE FOLLOWING ITEMS:

- ADD AN H-FRAME WITH METER AND (3) ROOFTOP JUNCTION BOXES
- ADD (3) 3" CONDUITS UNDERGROUND TO COMPOUND
- ADD BLOCK WALL COMPOUND TO MATCH SOUND WALL
- ADD A METER WITH PULL OUT BREAKER
- ADD A CONCRETE PAD FOR EQUIPMENT
- ADD A PPC AND TELCO BOX WITH DC FAN
- ADD (2) EQUIPMENT CABINETS
- ADD AN H-FRAME BEHIND CABINETS
- ADD AN EXCESS FIBER BOX
- ADD (3) 3" CONDUITS UNDERGROUND TO SCREENING ENCLOSURE
- ADD (6) RADIO MODULES TO H-FRAME INSIDE SCREENING ENCLOSURE
- ADD (3) 3" CONDUITS UNDERGROUND AND UP INSIDE POLE FOUNDATION
- ADD LONG JUMPERS AND POWER AND FIBER CABLES UP TO ANTENNAS
- ADD (6) ANTENNAS ON TRAFFIC SIGNAL LIGHT POLE
- ADD (6) CABLE SHROUDS ATTACHED BELOW ANTENNAS

PROJECT TEAM

PROJECT MANAGER:  
 T-MOBILE  
 1330 W. SOUTHERN AVE., STE A-102  
 TEMPE, AZ 85282

CONSTRUCTION MANAGER:  
 COAL CREEK CONSULTING  
 8283 N. HAYDEN RD. SUITE 258  
 SCOTTSDALE, ARIZONA 85258  
 CONTACT: STEVE MOOREHEAD  
 PHONE (602) 326-0002

SITE ACQ. CONSULTANT:  
 COAL CREEK CONSULTING  
 8283 N. HAYDEN RD. SUITE 258  
 SCOTTSDALE, ARIZONA 85258  
 CONTACT: CAMERON LEHMAN  
 PHONE: (714) 943-6261

A&E DESIGN:  
 COAL CREEK CONSULTING  
 8283 N. HAYDEN RD. SUITE 258  
 SCOTTSDALE, ARIZONA 85258  
 CONTACT: SHAWN EVANS  
 PHONE (602) 758-5829

SURVEYOR:  
 RLF CONSULTING  
 2165 W. PECOS RD., SUITE 5  
 CHANDLER, ARIZONA 85224  
 CONATCT: BEN BUTWINSKI  
 PHONE (602) 794-5805

SHEET INDEX

T-1 TITLE SHEET, VICINITY MAP & GENERAL INFO.

ZONING:

- Z-1 OVERALL SITE PLAN
- Z-2 SITE PLAN
- Z-3 ENLARGED EQUIPMENT/ANTENNA DIMENSION PLANS
- Z-3.1 ENLARGED EQUIPMENT AND DIMENSION PLANS
- Z-4 ELEVATIONS

NO.	DATE	DESCRIPTION	BY
9	07/20/23	REVISION 7	SPE
10	07/28/23	REVISION 8	SPE
11	09/11/23	REVISION 9	SPE
12	10/03/23	REVISION 10	SPE
13	10/31/23	REVISION 11	SPE

PROJECT INFORMATION  
 JOB: 03-586-03

**PH60907B**  
**TRAFFIC LIGHT PIMA**  
**AND HAPPY VALLEY**

EAST HAPPY VALLEY & N. PIMA RD.  
 SCOTTSDALE, ARIZONA 85255

SHEET TITLE

**TITLE SHEET, VICINITY**  
**MAP & GENERAL**  
**INFORMATION**

JURISDICTIONAL APPROVAL

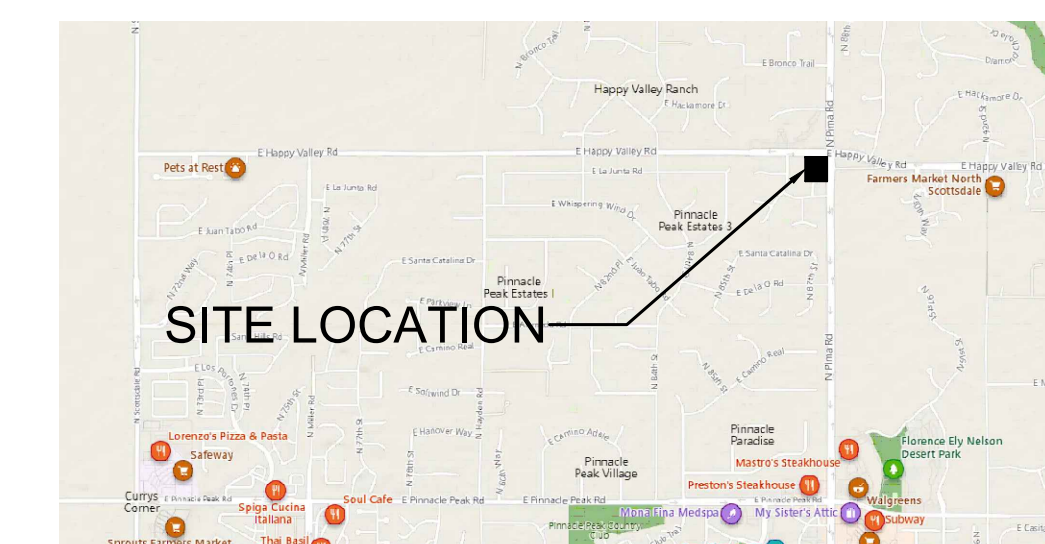
**APPROVED**

By Development  
 Review Board  
 Jan, 18, 2024

SHEET NUMBER

**T-1**

VICINITY MAP



DRIVING DIRECTIONS

FROM THE T-MOBILE OFFICE: HEAD SOUTH ON S. PRIEST DR. TURN LEFT AND MERGE ONTO AZ-60 EAST. MERGE ONTO THE 101 LOOP NORTH. EXIT THE FREEWAY AND TURN RIGHT ON N. PIMA RD.. THE TRAFFIC LIGHT POLE IS ON THE S.W. CORNER OF E. HAPPY VALLEY RD. AND N. PIMA RD..

RFDS VER 1 DATED 10/03/2023 AT 11:13:50 AM

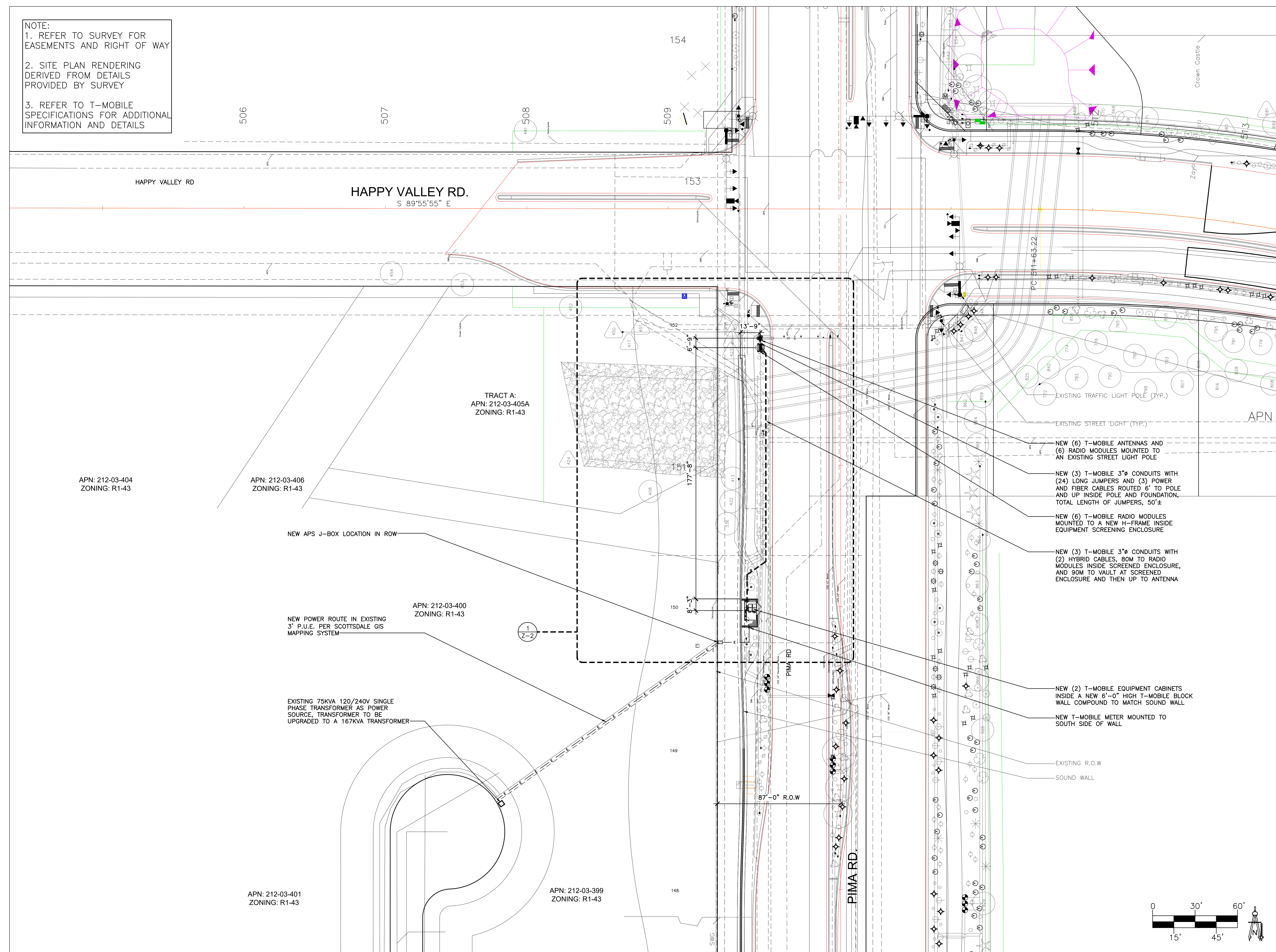
NOTE:  
 1. REFER TO SURVEY FOR EASEMENTS AND RIGHT OF WAY  
 2. SITE PLAN RENDERING DERIVED FROM DETAILS PROVIDED BY SURVEY  
 3. REFER TO T-MOBILE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND DETAILS

CLIENT  
**T-Mobile**  
 1330 W. SOUTHERN AVE. STE A-102  
 TEMPE, ARIZONA, 85282  
 PHONE: (480) 638-2600 FAX: (480) 638-2852

CONSULTANT  
**COAL CREEK CONSULTING**  
 8283 N. HAYDEN RD., STE 258  
 SCOTTSDALE, ARIZONA 85258  
 PHONE: (480) 429-0533

ENGINEER OF RECORD  
**TERRA DYNAMIC ENGINEERING, LLC**  
  
 3241 E. SHEA BLVD., SUITE 1, #455  
 PHOENIX, AZ 85028  
 PHONE: (602) 482-1603  
 EMAIL: ROBERT@TERRADYNAMIC.US

SEAL



APN: 212-03-404  
 ZONING: R1-43

APN: 212-03-406  
 ZONING: R1-43

TRACT A:  
 APN: 212-03-405A  
 ZONING: R1-43

APN: 212-03-400  
 ZONING: R1-43

APN: 212-03-401  
 ZONING: R1-43

APN: 212-03-399  
 ZONING: R1-43

NEW (6) T-MOBILE ANTENNAS AND (6) RADIO MODULES MOUNTED TO AN EXISTING STREET LIGHT POLE

NEW (3) T-MOBILE 3"Ø CONDUITS WITH (24) LONG JUMPERS AND (3) POWER AND FIBER CABLES ROUTED 6' TO POLE AND UP INSIDE POLE AND FOUNDATION, TOTAL LENGTH OF JUMPERS, 50±

NEW (6) T-MOBILE RADIO MODULES MOUNTED TO A NEW H-FRAME INSIDE EQUIPMENT SCREENING ENCLOSURE

NEW (3) T-MOBILE 3"Ø CONDUITS WITH (2) HYBRID CABLES, 80M TO RADIO MODULES INSIDE SCREENED ENCLOSURE, AND 90M TO VAULT AT SCREENED ENCLOSURE AND THEN UP TO ANTENNA

NEW (2) T-MOBILE EQUIPMENT CABINETS INSIDE A NEW 6'-0" HIGH T-MOBILE BLOCK WALL COMPOUND TO MATCH SOUND WALL

NEW T-MOBILE METER MOUNTED TO SOUTH SIDE OF WALL

EXISTING R.O.W  
 SOUND WALL

NO.	DATE	DESCRIPTION	BY
9	07/20/23	REVISION 7	SPE
10	07/28/23	REVISION 8	SPE
11	09/11/23	REVISION 9	SPE
12	10/03/23	REVISION 10	SPE
13	10/31/23	REVISION 11	SPE

PROJECT INFORMATION  
 JOB: 03-586-03

**PH60907B**  
**TRAFFIC LIGHT PIMA AND HAPPY VALLEY**

EAST HAPPY VALLEY & N. PIMA RD.  
 SCOTTSDALE, ARIZONA 85255

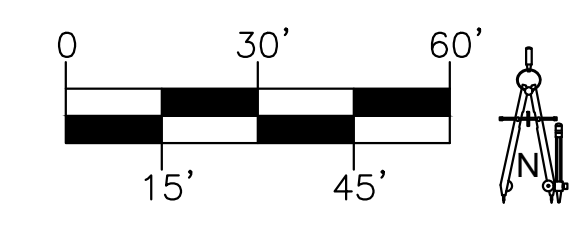
SHEET TITLE

**OVERALL SITE PLAN**

JURISDICTIONAL APPROVAL

SHEET NUMBER

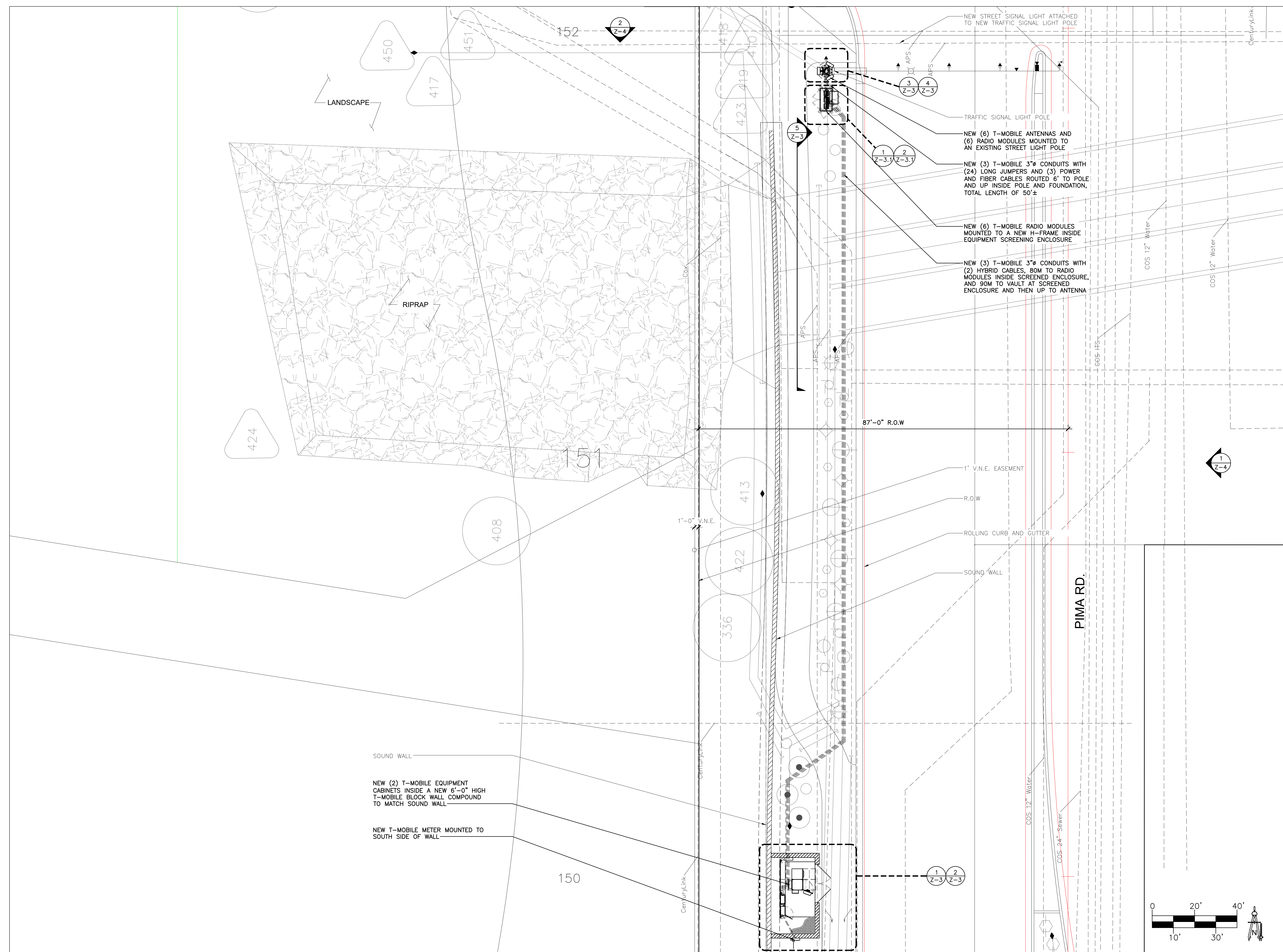
**Z-1**



SCALE: 1" = 30' 1

OVERALL SITE PLAN

RFDS VER 1 DATED 10/03/2023 AT 11:13:50 AM



CLIENT  
**T-Mobile**  
 1330 W. SOUTHERN AVE. STE A-102  
 TEMPE, ARIZONA, 85282  
 PHONE: (480) 638-2600 FAX: (480) 638-2852

CONSULTANT  
**COAL CREEK CONSULTING**  
 8283 N. HAYDEN RD., STE 258  
 SCOTTSDALE, ARIZONA 85258  
 PHONE: (480) 429-0533

ENGINEER OF RECORD  
**TERRA DYNAMIC ENGINEERING, LLC**  
  
 3241 E. SHEA BLVD., SUITE 1, #455  
 PHOENIX, AZ 85028  
 PHONE: (602) 482-1603  
 EMAIL: ROBERT@TERRADYNAMIC.US

SEAL

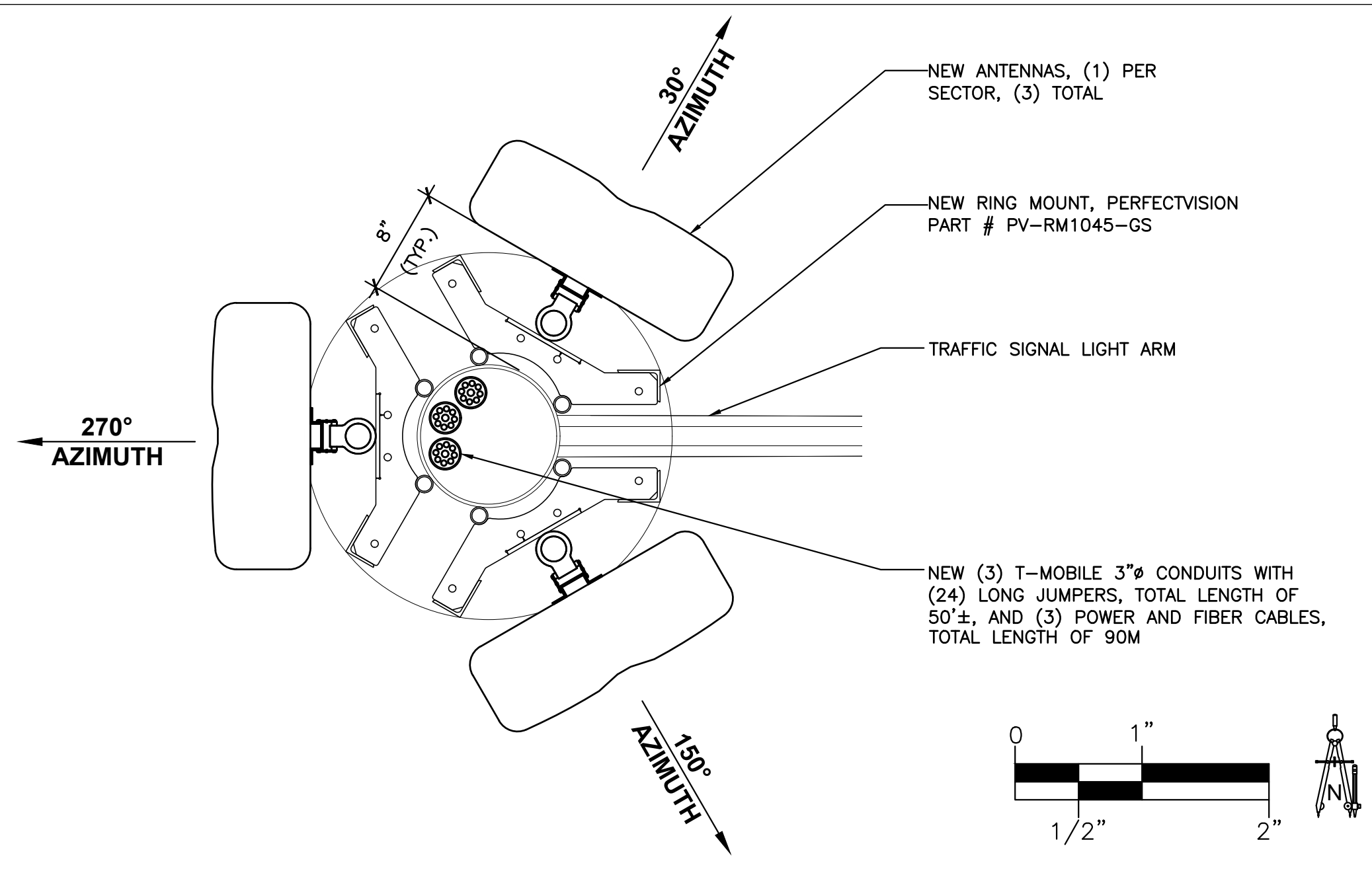
NO.	DATE	DESCRIPTION	BY
9	07/20/23	REVISION 7	SPE
10	07/28/23	REVISION 8	SPE
11	09/11/23	REVISION 9	SPE
12	10/03/23	REVISION 10	SPE
13	10/31/23	REVISION 11	SPE

PROJECT INFORMATION  
 JOB: 03-586-03  
**PH60907B**  
**TRAFFIC LIGHT PIMA AND HAPPY VALLEY**  
 EAST HAPPY VALLEY & N. PIMA RD.  
 SCOTTSDALE, ARIZONA 85255

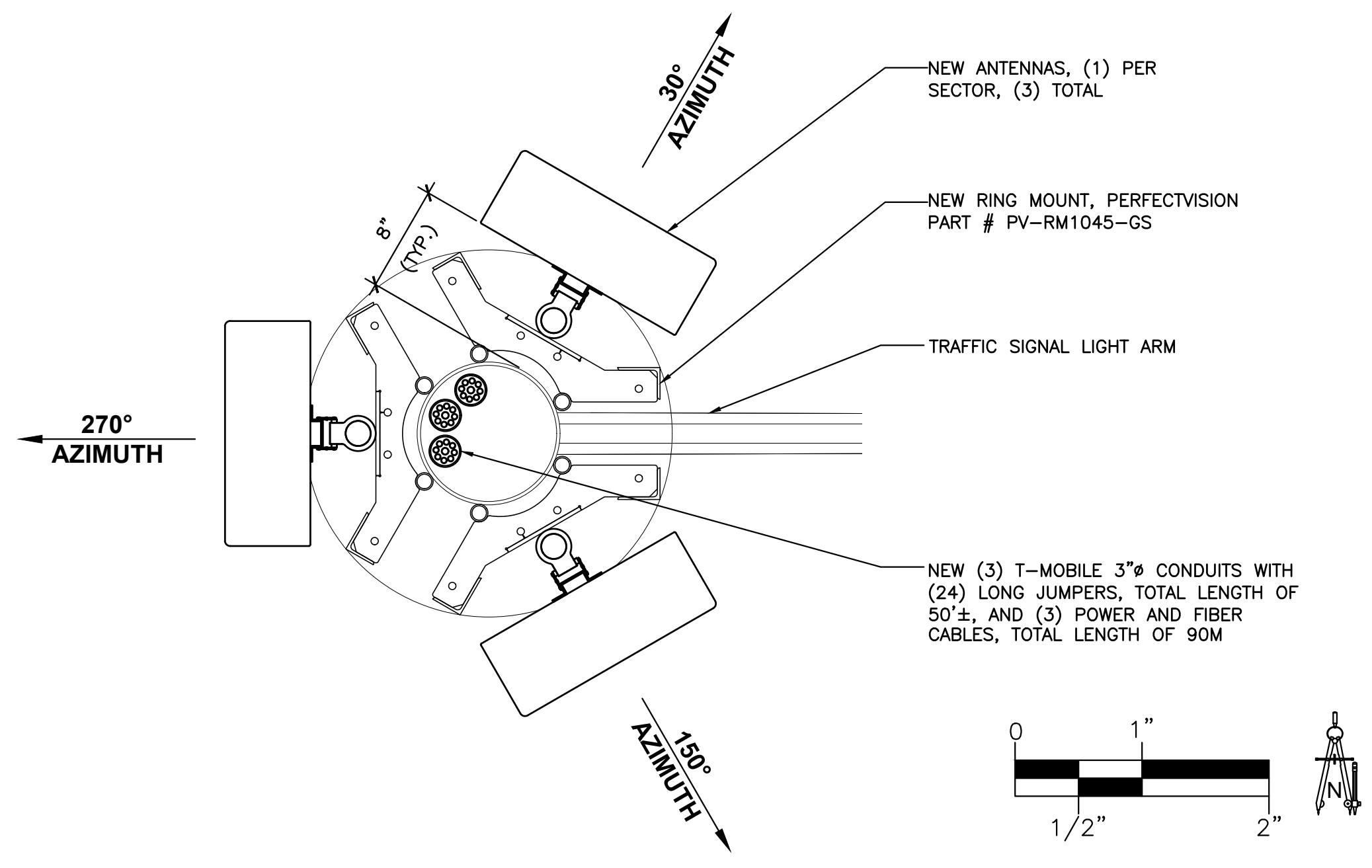
SHEET TITLE  
**SITE PLAN**

JURISDICTIONAL APPROVAL

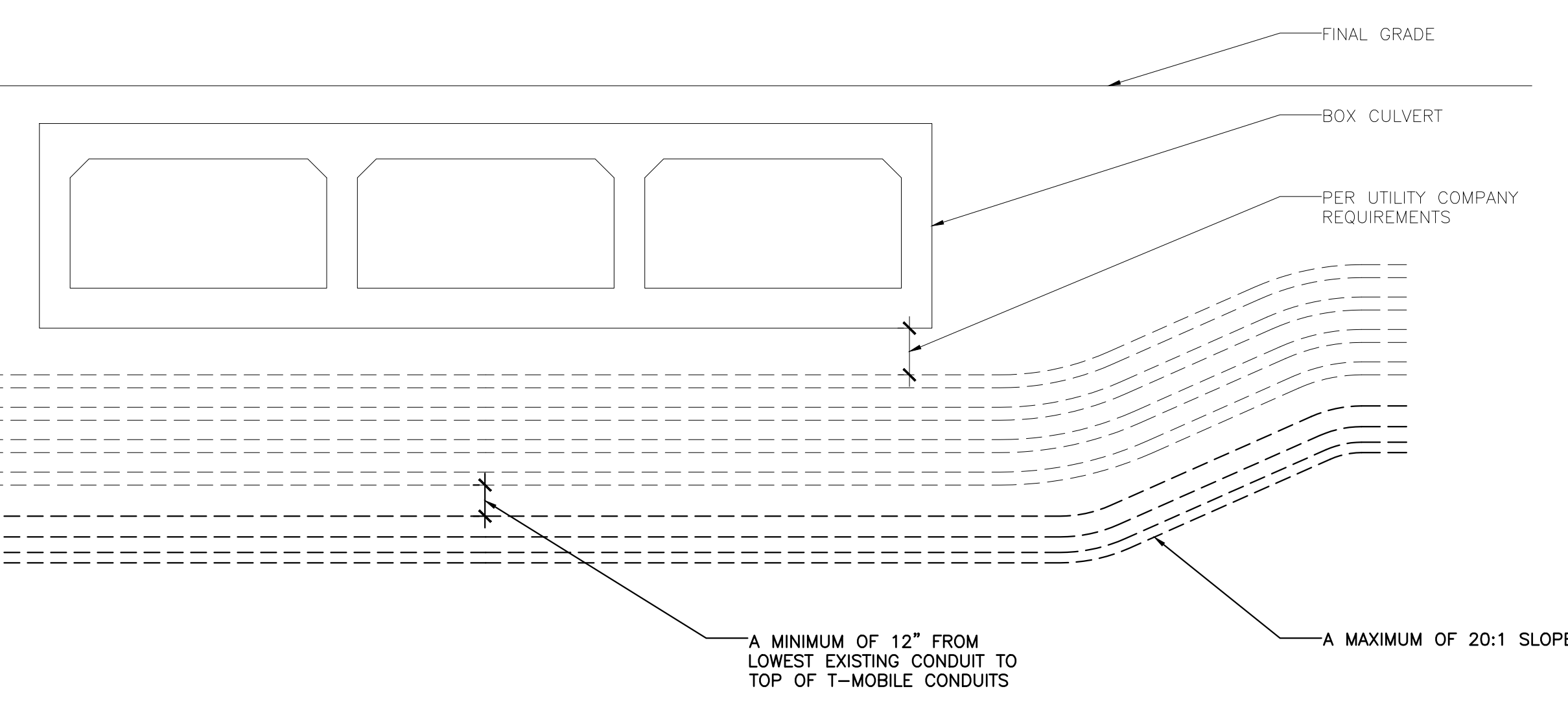
SHEET NUMBER  
**Z-2**



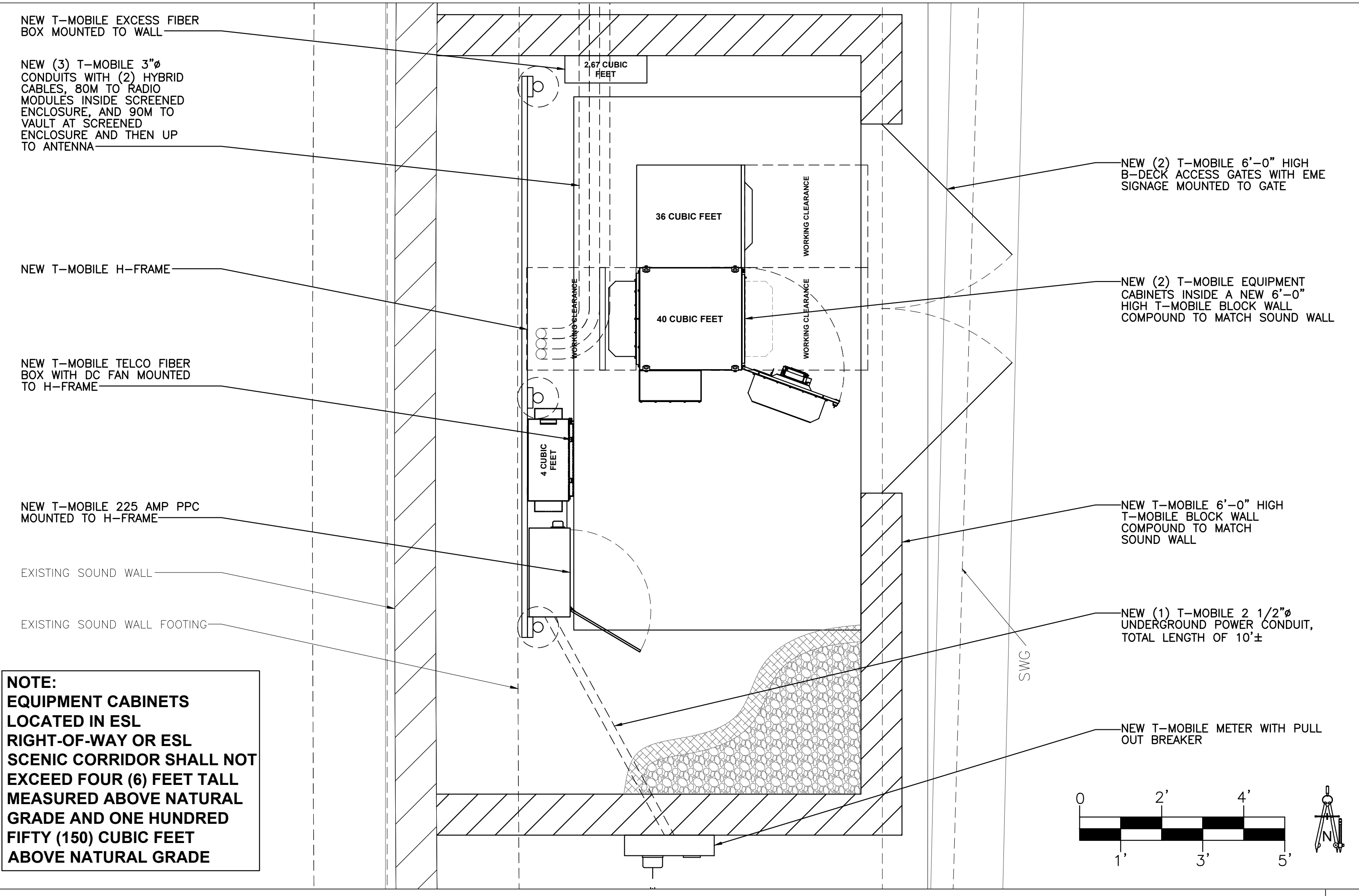
NEW LOWER ANTENNA PLAN SCALE: 1" = 1'-0" 3



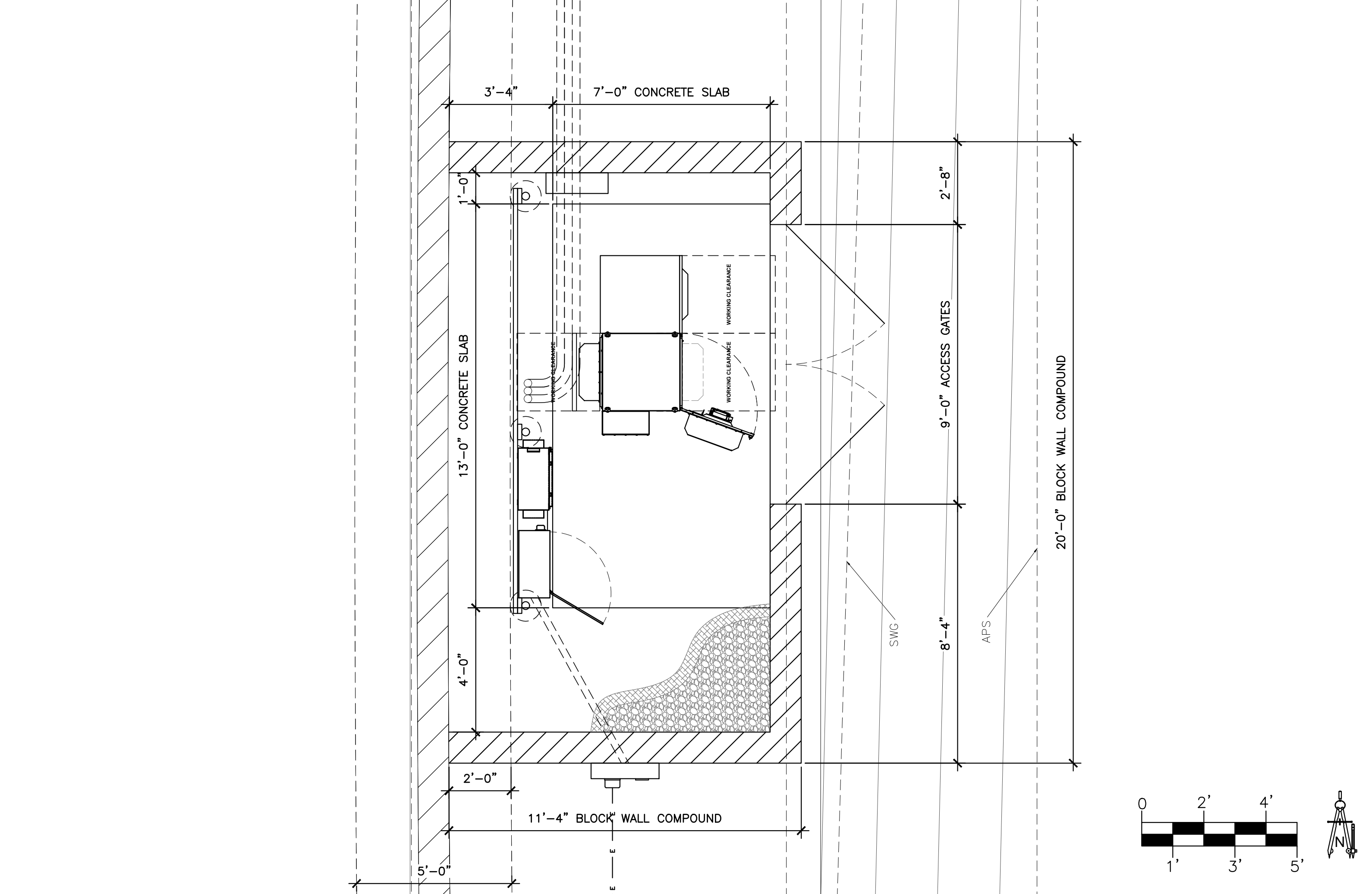
NEW UPPER ANTENNA PLAN SCALE: 1" = 1'-0" 4



T-MOBILE CONDUIT CLEARANCES UNDER BOX CULVERT SCALE: N.T.S 5



NEW ENLARGED EQUIPMENT PLAN SCALE: 1/2" = 1'-0" 1



NEW ENLARGED DIMENSION PLAN SCALE: 3/8" = 1'-0" 2

CLIENT  
**T-Mobile**  
 1330 W. SOUTHERN AVE. STE A-102  
 TEMPE, ARIZONA, 85282  
 PHONE: (480) 638-2600 FAX: (480) 638-2852

CONSULTANT  
**COAL CREEK CONSULTING**  
 8283 N. HAYDEN RD., STE 258  
 SCOTTSDALE, ARIZONA 85258  
 PHONE: (480) 429-0533

ENGINEER OF RECORD  
**TERRA DYNAMIC ENGINEERING, LLC**  
 3241 E. SHEA BLVD., SUITE 1, #455  
 PHOENIX, AZ 85028  
 PHONE: (602) 482-1603  
 EMAIL: ROBERT@TERRADYNAMIC.US

SEAL

NO.	DATE	DESCRIPTION	BY
9	07/20/23	REVISION 7	SPE
10	07/28/23	REVISION 8	SPE
11	09/11/23	REVISION 9	SPE
12	10/03/23	REVISION 10	SPE
13	10/31/23	REVISION 11	SPE

PROJECT INFORMATION

JOB: 03-586-03

**PH60907B**  
**TRAFFIC LIGHT PIMA**  
**AND HAPPY VALLEY**

EAST HAPPY VALLEY & N. PIMA RD.  
 SCOTTSDALE, ARIZONA 85255

SHEET TITLE  
**ENLARGED**  
**EQUIPMENT,**  
**ANTENNA, AND**  
**DIMENSION PLANS**

JURISDICTIONAL APPROVAL

SHEET NUMBER  
**Z-3**

RFDS VER 1 DATED 10/03/2023 AT 11:13:50 AM

CLIENT  
**T-Mobile**  
 1330 W. SOUTHERN AVE. STE A-102  
 TEMPE, ARIZONA, 85282  
 PHONE: (480) 638-2600 FAX: (480) 638-2852

CONSULTANT  
**COAL CREEK CONSULTING**  
 8283 N. HAYDEN RD., STE 258  
 SCOTTSDALE, ARIZONA 85258  
 PHONE: (480) 429-0533

ENGINEER OF RECORD  
**TERRA DYNAMIC ENGINEERING, LLC**  
  
 3241 E. SHEA BLVD., SUITE 1, #455  
 PHOENIX, AZ 85028  
 PHONE: (602) 482-1603  
 EMAIL: ROBERT@TERRADYNAMIC.US

SEAL

NO.	DATE	DESCRIPTION	BY
9	07/20/23	REVISION 7	SPE
10	07/28/23	REVISION 8	SPE
11	09/11/23	REVISION 9	SPE
12	10/03/23	REVISION 10	SPE
13	10/31/23	REVISION 11	SPE

PROJECT INFORMATION  
 JOB: 03-586-03

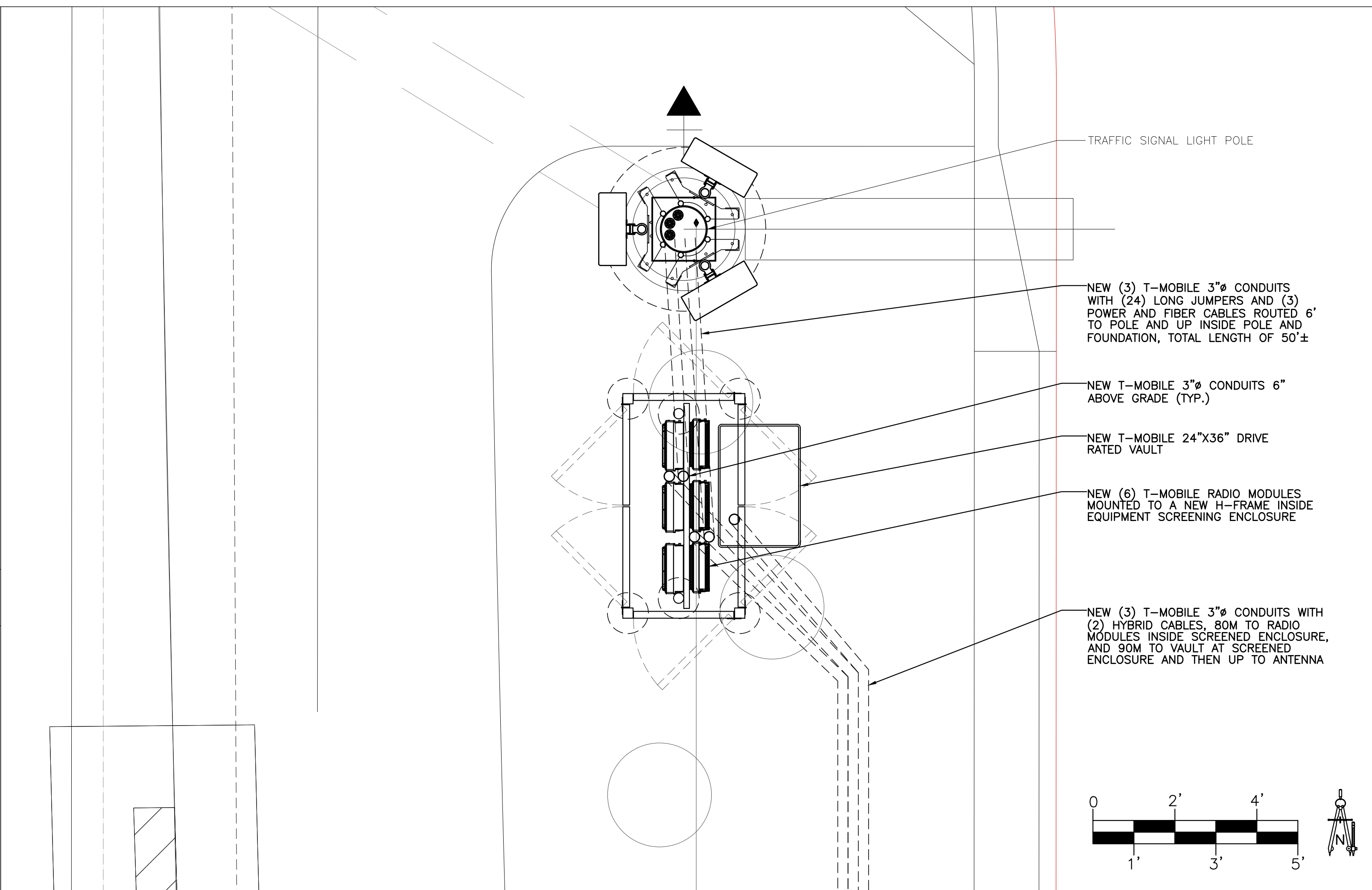
**PH60907B**  
**TRAFFIC LIGHT PIMA AND HAPPY VALLEY**

EAST HAPPY VALLEY & N. PIMA RD.  
 SCOTTSDALE, ARIZONA 85255

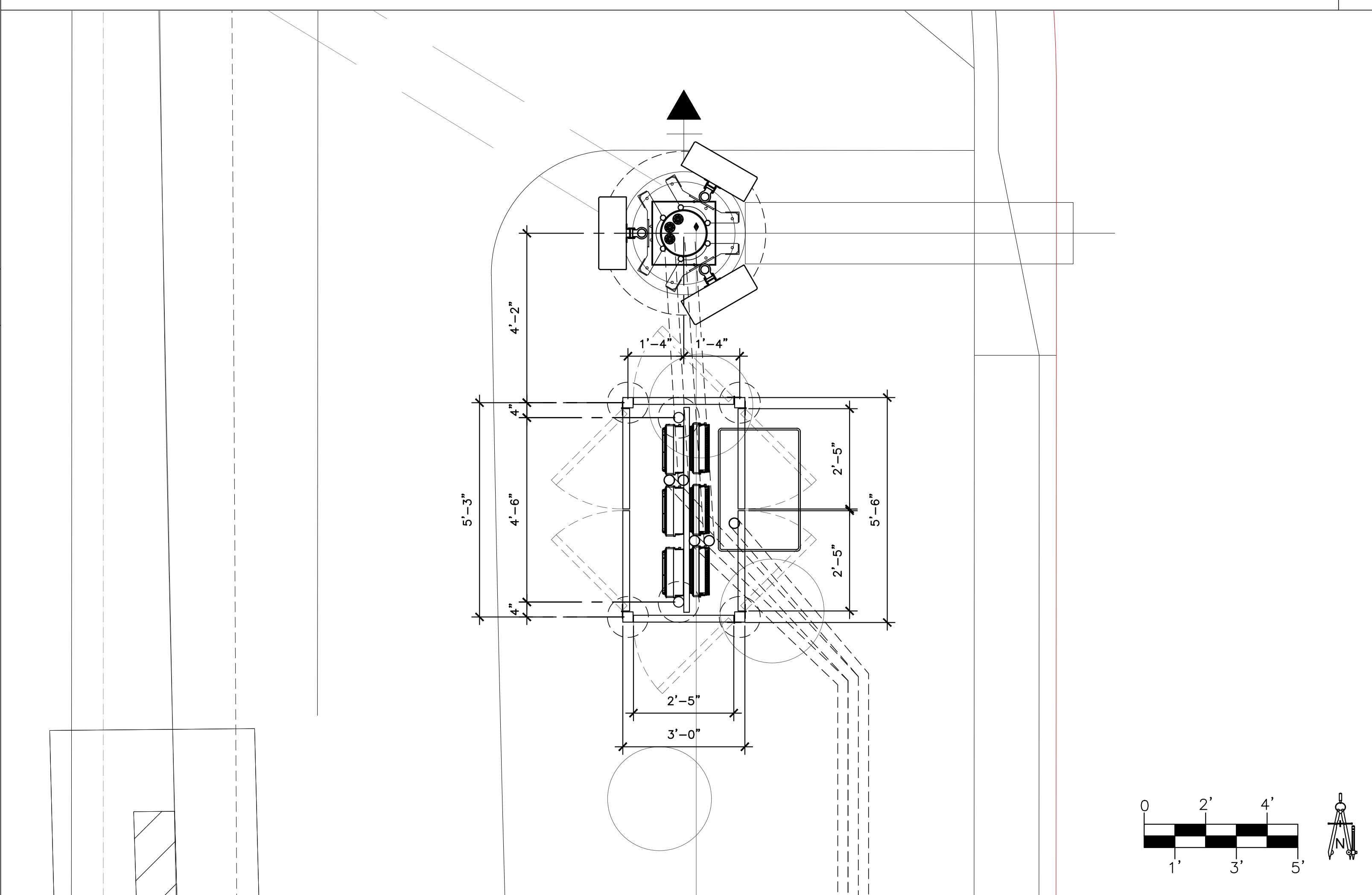
SHEET TITLE  
**ENLARGED EQUIPMENT BY POLE PLAN AND DIMENSION PLAN**

JURISDICTIONAL APPROVAL

SHEET NUMBER  
**Z-3.1**



NEW ENLARGED EQUIPMENT BY POLE PLAN SCALE: 1/2" = 1'-0" 1



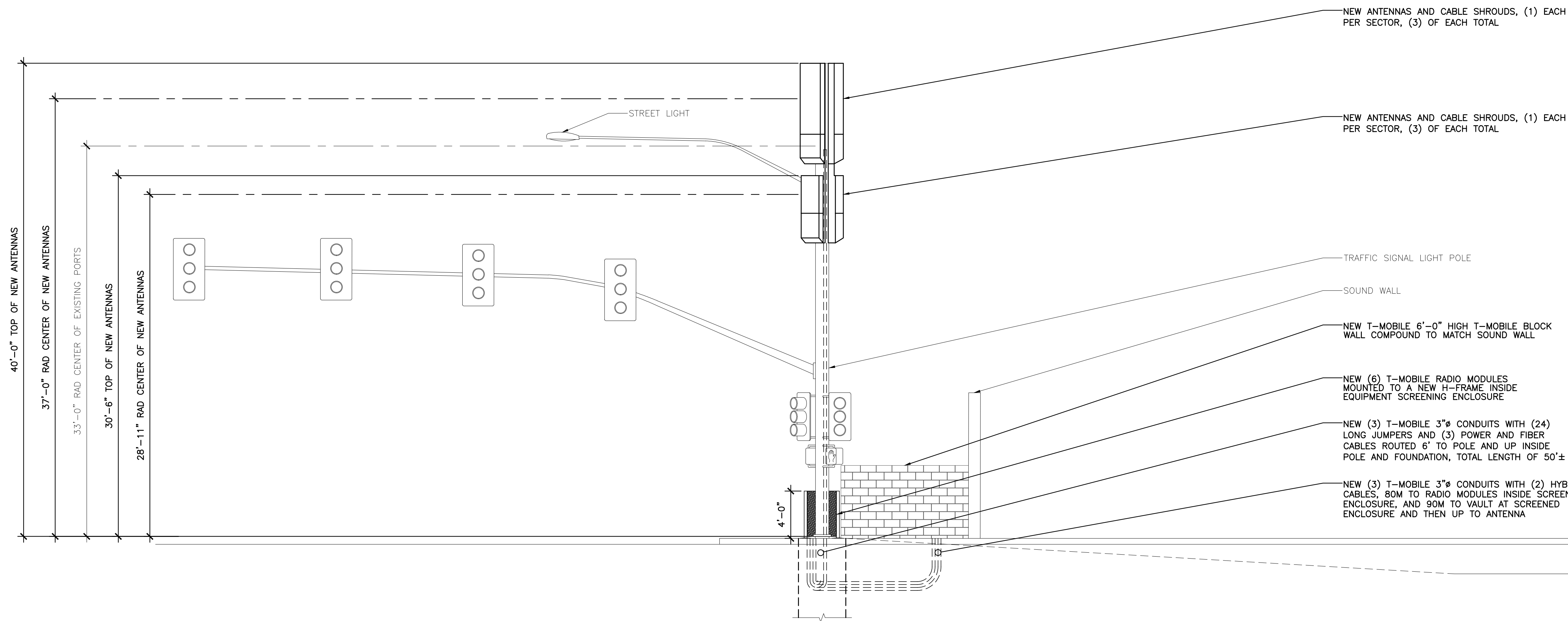
NEW ENLARGED EQUIPMENT BY POLE DIMENSION PLAN SCALE: 3/8" = 1'-0" 2

NOT USED SCALE: N.T.S. 3

NOT USED SCALE: N.T.S. 4

NOT USED SCALE: N.T.S. 5

RFDS VER 1 DATED 10/03/2023 AT 11:13:50 AM

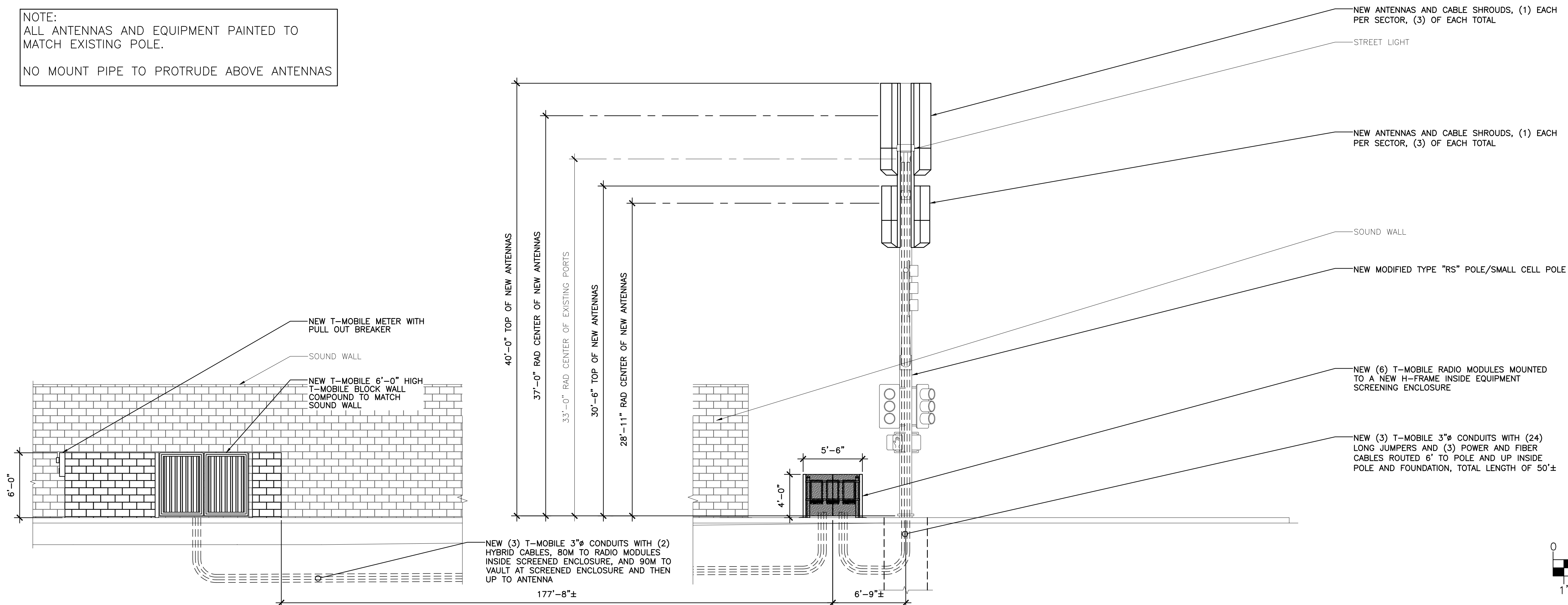


NEW NORTH ELEVATION

SCALE: 3/16" = 1'-0"

1

NOTE:  
 ALL ANTENNAS AND EQUIPMENT PAINTED TO MATCH EXISTING POLE.  
 NO MOUNT PIPE TO PROTRUDE ABOVE ANTENNAS



NEW EAST ELEVATION

SCALE: 3/16" = 1'-0"

1

NO.	DATE	DESCRIPTION	BY
9	07/20/23	REVISION 7	SPE
10	07/28/23	REVISION 8	SPE
11	09/11/23	REVISION 9	SPE
12	10/03/23	REVISION 10	SPE
13	10/31/23	REVISION 11	SPE

PROJECT INFORMATION  
 JOB: 03-586-03

**PH60907B**  
**TRAFFIC LIGHT PIMA AND HAPPY VALLEY**

EAST HAPPY VALLEY & N. PIMA RD.  
 SCOTTSDALE, ARIZONA 85255

SHEET TITLE

**ELEVATIONS**

JURISDICTIONAL APPROVAL

SHEET NUMBER

**Z-4**

RFDS VER 1 DATED 10/03/2023 AT 11:13:50 AM