



DW Tower, LLC

SITE NAME: SKY HI

ARCHITECT

YOUNG DESIGN CORP.
10245 E. VIA LINDA, #211
SCOTTSDALE, ARIZONA, 85258
PHONE: (480) 451-9609
CONTACT: MATTHEW YOUNG

SURVEYOR

RLF CONSULTING, LLC
2165 W. PECOS ROAD #5
CHANDLER, ARIZONA, 85281
PHONE: (480) 445-9189
CONTACT: RYAN FIDLER

TOWER OWNER

DW TOWER, LLC
11901 S. 202ND PLACE LOT C
MESA, AZ 85212
PHONE: (602) 919-0299
CONTACT: RUSTY LEWELLEN

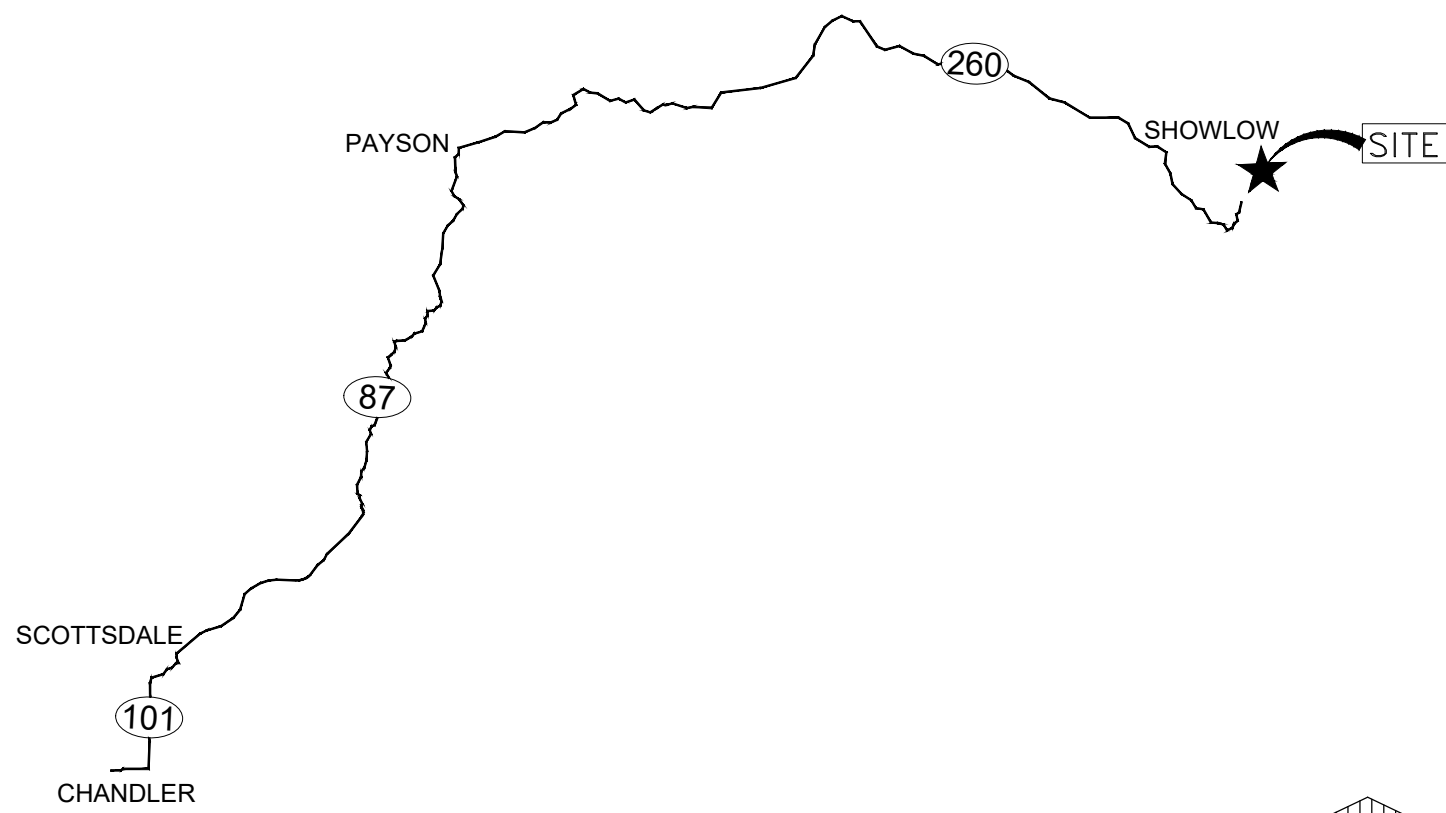
LESSOR / OWNER

SKY-HI DOMESTIC WATER
IMPROVEMENT DISTRICT
P.O. BOX 974
LAKESIDE, AZ 85929

SITE PHOTO:



VICINITY MAP:



SITE COORDINATES:

LATITUDE : 34° 09' 29.219" N
LONGITUDE : 109° 53' 16.985" W
ELEVATION : 7171' A.M.S.L.

MEET POINT VAULT COORDINATES:

LATITUDE : 34° 09' 28.057" N
LONGITUDE : 109° 53' 16.137" W
ELEVATION : 7171' A.M.S.L.

DRIVING DIRECTIONS:

FROM CHANDLER OFFICE, GET ON AZ-202 / AZ-202 LOOP E FROM S. 56TH ST AND W. ALLISON RD. FOLLOW AZ-87 N AND AZ-260 E TO W. WHIPPLE ST IN SHOW LOW. TAKE AZ-260 E / S. WHITE MOUNTAIN RD AND SKY HI RD / TOMAHAWK RD TO N. AZTEC CIR.

CODE COMPLIANCE:

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE CODES AS ADAPTED BY THE LOCAL GOVERNING AUTHORITIES.

BUILDING CODE : 2018 IBC
MECHANICAL CODE : 2018 IMC
PLUMBING CODE : 2018 IPC
ELECTRIC CODE : 2017 NEC
FIRE CODE : 2018 IFC

SPECIAL INSPECTIONS REQUIRED:

DRILLED CASSION : YES
CONCRETE REINFORCING : YES
BOLTS IN CONCRETE : YES
FIELD WELDING : NO

FIRE DEPARTMENT NOTES:

PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING NOT LESS THAN 2A-10BC.

PROVIDE STREET ADDRESS IDENTIFICATION PER MUNICIPAL REQUIREMENTS.

PROVIDE AND INSTALL FIRE DEPARTMENT APPROVED 'KNOX BOX' PER DEPARTMENT REQUIREMENTS.

ZONING COMPLIANCE:

LOCAL JURISDICTION: NAVAJO COUNTY
COUNTY: NAVAJO COUNTY
ASSESSORS PARCEL: 311-19-020A
ZONING: N/A
USE: TELECOMMUNICATIONS FACILITY
PARENT PARCEL AREA: 1.02 ACRES
EQUIPMENT LEASE AREA: 2025 S.F. (144 S.F. SUBTENANT)
PARKING REQ'D: 0
PARKING PROVIDED: 1

GENERAL COMPLIANCE:

HVAC USED ON THIS STRUCTURE IS NOT INTENDED FOR HUMAN COMFORT; ITS USE IS SOLELY FOR ELECTRONIC EQUIPMENT COOLING.

DEVELOPMENT AND USE OF THIS SITE WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.

PROVIDE STREET ADDRESS IDENTIFICATION PER MUNICIPAL REQUIREMENTS.

THE USE OF THIS SITE WILL GENERATE NO TRASH. THIS PROJECT DOES NOT REQUIRE WATER OR SEWER THIS PROJECT REQUIRES PERMANENT POWER & TELEPHONE CONNECTION

A.D.A. COMPLIANCE:

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. LANDINGS AND EXITS SHALL COMPLY WITH THE APPLICABLE BUILDING CODE.

F.C.C. COMPLIANCE:

ALL NEW ANTENNAS SHALL BE IN COMPLIANCE WITH ALL FEDERAL COMMUNICATIONS COMMISSION (FCC) REGULATIONS, INCLUDING THOSE PROTECTING THE PUBLIC HEALTH AND THOSE PROTECTING HISTORIC DISTRICTS.

PROJECT DESCRIPTION:

THE PROJECT CONSISTS OF THE INSTALLATION AND OPERATION OF ANTENNAS MOUNTED ON NEW MONOPINE AND ASSOCIATED EQUIPMENT FOR COMPANY'S WIRELESS TELECOMMUNICATIONS NETWORK. FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

THIS FACILITY CONSISTS OF A NEW SITE BUILT BUILDING. NO HAZARDOUS MATERIAL WILL BE STORED WITHIN THE FACILITY.

ALL EXITS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF KEYS OR SPECIAL KNOWLEDGE. MANUALLY OPERATED EDGE OR SURFACE MOUNTED FLUSH BOLTS ARE PROHIBITED.

NEW 75' DW TOWER MONOPINE
NEW DW TOWER SITE BUILT BUILDING
NEW ELECTRICAL SERVICE

SHEET INDEX:

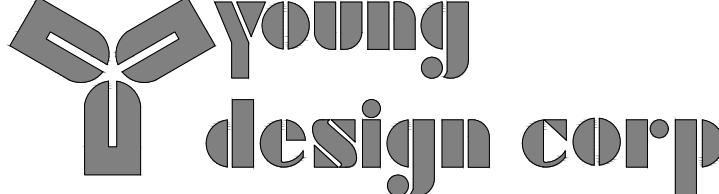
T-1	TITLE SHEET, PROJECT INFO
LS-1	BOUNDARY DETAIL
LS-2	TOPOGRAPHIC SURVEY
A-1	OVERALL SITE PLAN
A-2	ENLARGED SITE PLAN
A-3	ELEVATIONS
A-4	DETAILS
GSN	EQUIP. SHELTER GENERAL NOTES
S1.0	EQUIP. SHELTER ELEVATIONS
S2.0	EQUIP. SHELTER FOUNDATION PLAN
S3.0	EQUIP. SHLTR BLD. SECTION & FRAMING
S4.0	EQUIP. SHELTER ROOF FRAMING PLAN
S5.0	EQUIP. SHELTER BLD. & SIDE WALL SECT.
S6.0	EQUIP. SHELTER BLD. & END WALL SECT.
E-1	GENERAL NOTES / LEGENDS / SHEET INDEX
E-2	SITE POWER PLAN
E-3	ONE-LINE / CALCS
E-4	GROUNDING PLAN
E-4.1	GROUNDING DETAILS
C-101	GRADING & DRAINAGE PLANS
C-101	GRADING & DRAINAGE PROFILES

CLIENT



CARRIER

PLANS PREPARED BY



architecture / project management
10245 E. Via Linda, Scottsdale, AZ 85258
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PRELIMINARY UNLESS SIGNED

NO.	DATE	DESCRIPTION
1	02/28/2025	PRELIMINARY CD'S

ARCHITECTS JOB NO.

YDC - 11240

PROJECT INFORMATION

SKY HI

112 N. AZTEC CIRCLE
PINETOP, AZ 85935

SHEET TITLE

TITLE SHEET
PROJECT INFO

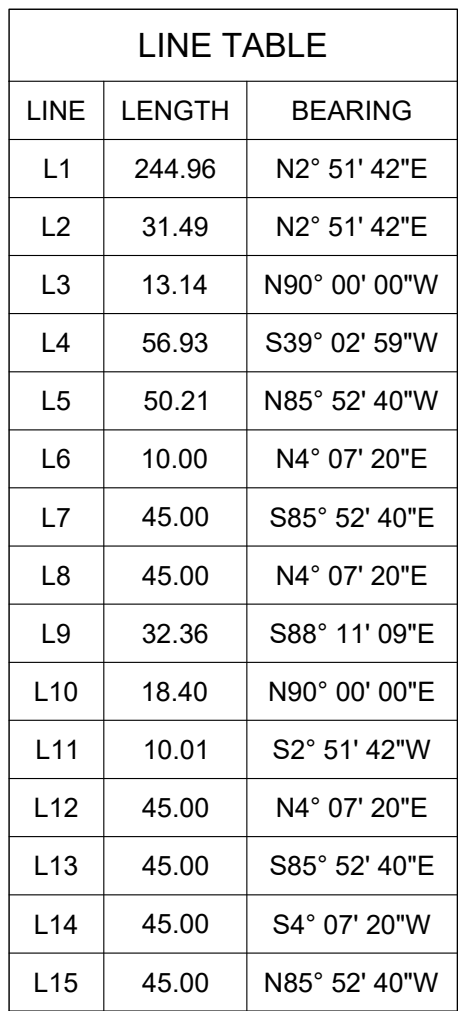
JURISDICTION APPROVAL

SHEET NUMBER

T-1



CALL BEFORE YOU DIG!
ARIZONA LAW REQUIRES
2 WORKING DAYS NOTICE FOR
CONSTRUCTION PHASE
STOP CALL
ARIZONA BLUE STAKE, INC.
(800) STAKE-IT

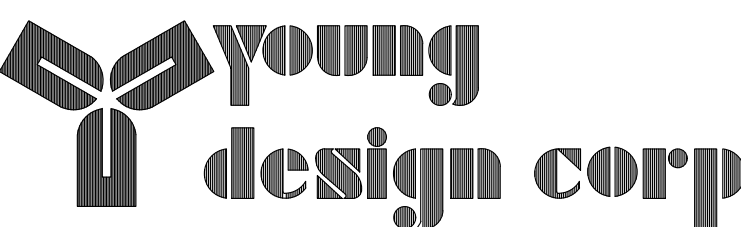


	FOUND AS NOTED
	TELEPHONE PEDESTAL
	FIBER VAULT
	POWER POLE
	WATER METER
	BOLLARD/POST
	DECIDUOUS TREE
	POSITION OF GEODETIC COORDINATES
	PROPERTY LINE
	PROPERTY LINE (OTHER)
	RIGHT-OF-WAY LINE
	CENTERLINE
	CHAIN LINK FENCE
	OVERHEAD ELECTRIC LINE
	STORM SEWER LINE
	EASEMENT LINE
	DRIVEWAY
	POB POINT OF BEGINNING
	POC POINT OF COMMENCEMENT

VICINITY MAP
N.T.S.



DW TOWER, LLC.



architecture / project management
10245 E. Via Linda, Scottsdale, AZ 85258
ph: 480 451 9609 fax: 480 451 9608
e mail: corp@ydcoffice.com

FIELD BY:	NAY
DRAWN BY:	GAC
CHECKED BY:	RLF

4	12/02/24	REVISION
3	11/22/24	FINAL
2	10/23/24	TITLE REVIEW
1	10/14/24	REVISION
0	10/08/24	PRELIMINARY
NO.	DATE	DESCRIPTION



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PROJECT No
2400798

SITE NAME
SKY HI

SITE ADDRESS:
112 N AZTEC CIR
PINETOP, AZ 85935

SHEET TITLE:

BOUNDARY DETAIL

SHEET NO.

LS-1

REVISION:

3

SURVEYOR NOTES

1. ALL TITLE INFORMATION IS BASED UPON A COMMITMENT FOR TITLE INSURANCE PREPARED BY TOWER TITLE, ORDER NO.: TOTH-188486-PR EFFECTIVE DATE: 10/01/2024.
2. SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE.
3. THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.
4. SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT BLUE STAKE AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

PROJECT META DATA

1. ELEVATIONS SHOWN HEREON ARE REPRESENTED IN *NORTH AMERICAN VERTICAL DATUM OF 1988 (NAD83)* ESTABLISHED FROM GPS DERIVED ELLIPSOID HEIGHTS, APPLYING GEOID 12B SEPARATIONS TO CONSTRAINING TO NGS GROUND STATIONS PROVIDED IN THE "ONLINE POSITIONING USER SERVICE" (OPUS) SOLUTION FOR THIS SPECIFIC SITE.
2. BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM ARIZONA STATE PLANE COORDINATE ZONE EAST, DETERMINED BY GPS OBSERVATIONS.
3. FIELD WORK FOR THIS PROJECT WAS PERFORMED ON 10/01/24.

FLOOD ZONE DESIGNATION

THE PROPOSED LEASE PREMISES SHOWN HEREON APPEAR TO BE WITHIN FLOOD
ZONE "D" AS DELINEATED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY
FIRM MAP NO. 04017C4750F DATED 08/17/2015.

FLOOD ZONE "D" IS DEFINED AS: AN AREA OF UNDETERMINED BUT POSSIBLE FLOOD HAZARDS.

LESSOR'S LEGAL DESCRIPTION

LOTS 20, 21, AND 22, OF SKY-HI-RETREAT UNIT ONE AMENDED, ACCORDING
TO BOOK 13 OF MAPS, PAGE 8, RECORDS OF NAVAJO COUNTY, ARIZONA.

PARCEL ID#: 311-19-020A (FORMERLY 311-19-018, 311-19-019, AND 311-19-020)

LOT 20 BEING THE SAME PROPERTY CONVEYED TO SKY HIGH DOMESTIC WATER IMPROVEMENT DISTRICT, AN ARIZONA CORPORATION FROM RAYMOND J. KOCH AND LYNN M. KOCH, HUSBAND AND WIFE IN A WARRANTYDEED DATED NOVEMBER 11, 2022, AND RECORDED NOVEMBER 16, 2022, AS INSTRUMENT NO. 2022-21388, IN NAVAJO COUNTY, ARIZONA.

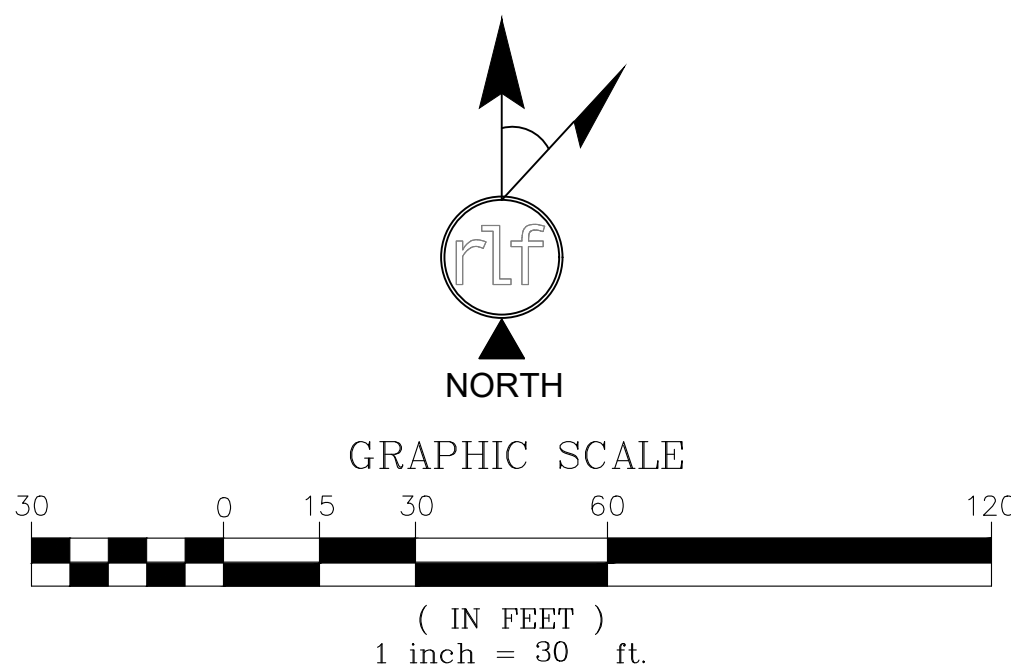
LOT 21 BEING THE SAME PROPERTY CONVEYED TO SKY-HI DOMESTIC WATER IMPROVEMENT DISTRICT, AN ARIZONA CORPORATION FROM PATRICIA J. SCHWEIGHARDT KING, A WIDOW IN A WARRANTY DEED DATED NOVEMBER 29, 1991, AND RECORDED MARCH 12, 1992, IN BOOK 1069, PAGE 657, AND AS INSTRUMENT NO. 92 03839, IN NAVAJO COUNTY, ARIZONA, AND FURTHER DESCRIBED IN THAT RE-RECORDED WARRANTY DEED RECORDED APRIL 29, 1992, IN BOOK 1175 PAGE 888, AND AS INSTRUMENT NO. 92 06240, IN NAVAJO COUNTY, ARIZONA.

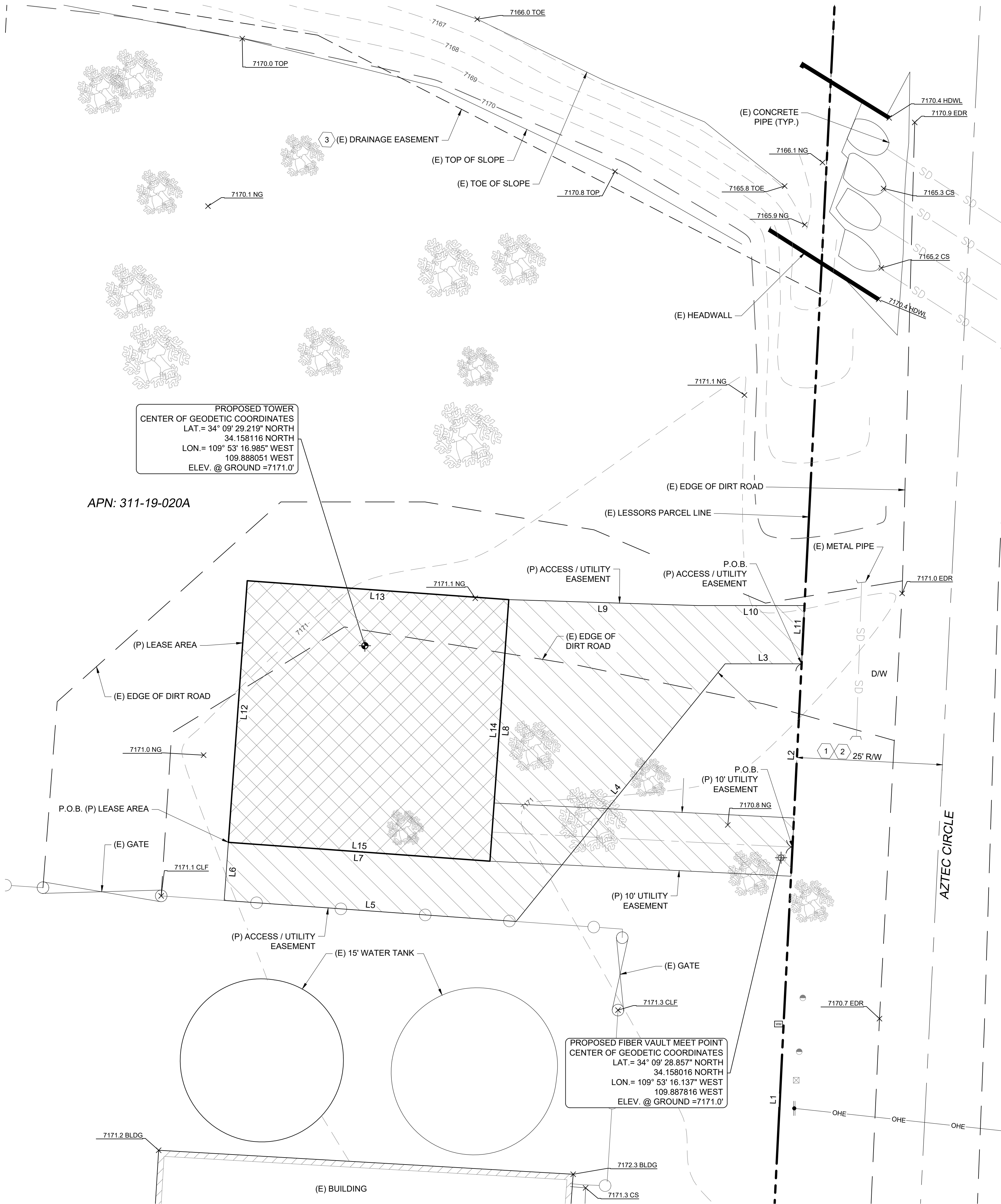
LOT 22 BEING THE SAME PROPERTY CONVEYED TO SKY-HI DOMESTIC WATER IMPROVEMENT DISTRICT, A MUNICIPAL CORPORATION FROM HIGH FLIGHT PARTNERSHIP, A GENERAL PARTNERSHIP IN A WARRANTY DEED DATED DECEMBER 12, 1989, AND RECORDED DECEMBER 14, 1989, IN BOOK 977, PAGE 882, AND AS INSTRUMENT NO. 89 18318, IN NAVAJO COUNTY, ARIZONA.

SCHEDULE B EXCEPTIONS

1. "SKY-HI-RETREAT - UNIT ONE" DATED AUGUST 23, 1962 AND RECORDED AUGUST 23, 1962 IN (BOOK) 5 (PAGE) 47, IN NAVAJO COUNTY, ARIZONA.
2. "AMENDED SKY-HI-RETREAT - UNIT ONE" DATED SEPTEMBER 29, 1978 AND RECORDED NOVEMBER 7, 1979 IN (BOOK) 13 (PAGE) 8, IN NAVAJO COUNTY, ARIZONA.
3. EASEMENT FOR DRAINAGE AND MAINTENANCE BETWEEN RAYMOND J. & LYNN M. KOCH; AND NAVAJO COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF ARIZONA, DATED OCTOBER 16, 2008 AND RECORDED NOVEMBER 6, 2008 IN (INSTRUMENT) 2008-22890, IN NAVAJO COUNTY, ARIZONA.

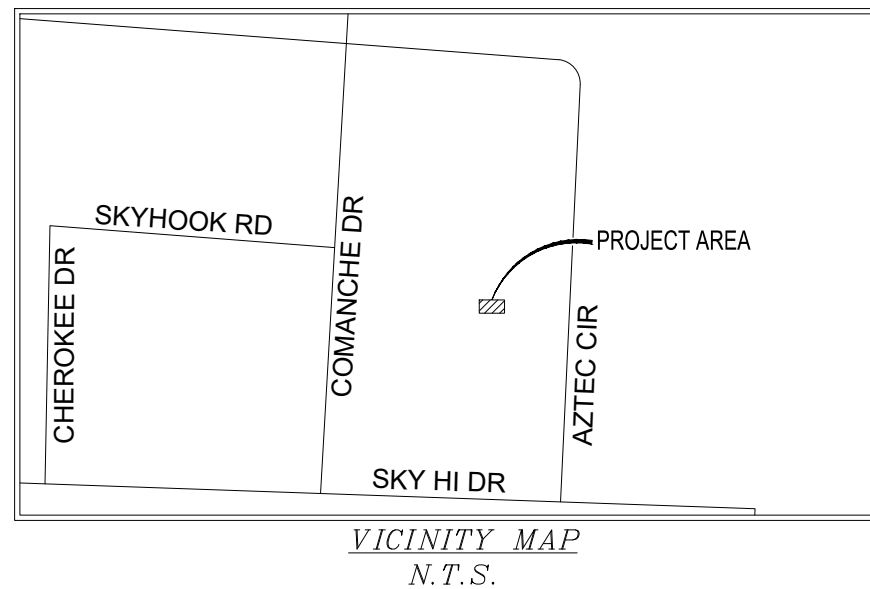
ITEM 4 AND 5 OF THE CLIENT PROVIDED TITLE REPORT DO NOT CONTAIN GRAPHICALLY PLOTTABLE EASEMENTS, SETBACKS, RESTRICTIONS OR OTHER ENCUMBRANCES. THE SURVEYOR CANNOT GUARANTEE THAT NON-PLOTTABLE ENCUMBRANCES DO NOT EXIST THAT MAY AFFECT THE SUBJECT LEASED PREMISES.





LEGEND

- FOUND AS NOTED
- TELEPHONE PEDESTAL
- FIBER VAULT
- POWER POLE
- WATER METER
- BOLLARD/POST
- DECIDUOUS TREE
- POSITION OF GEODETIC COORDINATES
- PROPERTY LINE
- PROPERTY LINE (OTHER)
- RIGHT-OF-WAY LINE
- CENTERLINE
- CHAIN LINK FENCE
- OVERHEAD ELECTRIC LINE
- STORM SEWER LINE
- EASEMENT LINE
- DRIVEWAY
- POINT OF BEGINNING
- POINT OF COMMENCEMENT



LINE TABLE		
LINE	LENGTH	BEARING
L1	244.96	N2° 51' 42"E
L2	31.49	N2° 51' 42"E
L3	13.14	N90° 00' 00"W
L4	56.93	S39° 02' 59"W
L5	50.21	N85° 52' 40"W
L6	10.00	N4° 07' 20"E
L7	45.00	S85° 52' 40"E
L8	45.00	N4° 07' 20"E
L9	32.36	S88° 11' 09"E
L10	18.40	N90° 00' 00"E
L11	10.01	S2° 51' 42"W
L12	45.00	N4° 07' 20"E
L13	45.00	S85° 52' 40"E
L14	45.00	S4° 07' 20"W
L15	45.00	N85° 52' 40"W

LESSEE ACCESS / UTILITY EASEMENT LEGAL DESCRIPTION
A TRACT OF LAND LAND BEING IN LOT 21 OF SKY-HI-RETREAT UNIT ONE AMENDED, ACCORDING TO BOOK 13 OF MAPS, PAGE 8, RECORDS OF NAVAJO COUNTY, ARIZONA, LYING 5.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCING AT THE INTERSECTION OF THE NORTH RIGHT-OF-WAY OF EAST SKY HI DRIVE AND THE WEST RIGHT-OF-WAY OF AZTEC CIRCLE; THENCE ALONG THE WEST RIGHT-OF-WAY OF AZTEC CIRCLE NORTH 02°51'42" EAST, A DISTANCE OF 244.96 FEET; THENCE CONTINUING NORTH 02°51'42" EAST, A DISTANCE OF 31.49 FEET TO THE POINT OF BEGINNING;

THENCE NORTH 90°00'00" WEST, A DISTANCE OF 13.14 FEET; THENCE SOUTH 39°02'59" WEST, A DISTANCE OF 56.93 FEET; THENCE NORTH 85°52'40" WEST, A DISTANCE OF 50.21 FEET; THENCE NORTH 04°07'20" EAST, A DISTANCE OF 10.00 FEET; THENCE SOUTH 85°52'40" EAST, A DISTANCE OF 45.00 FEET; THENCE NORTH 04°07'20" EAST, A DISTANCE OF 45.00 FEET; THENCE SOUTH 88°11'09" EAST, A DISTANCE OF 32.36 FEET; THENCE SOUTH 90°00'00" EAST, A DISTANCE OF 18.40 FEET; THENCE SOUTH 02°51'42" WEST, A DISTANCE OF 10.01 FEET TO THE POINT OF BEGINNING.

LESSEE UTILITY EASEMENT LEGAL DESCRIPTION
A 10.00 FOOT WIDE STRIP OF LAND BEING IN LOT 21 OF SKY-HI-RETREAT UNIT ONE AMENDED, ACCORDING TO BOOK 13 OF MAPS, PAGE 8, RECORDS OF NAVAJO COUNTY, ARIZONA, LYING 5.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCING AT THE INTERSECTION OF THE NORTH RIGHT-OF-WAY OF EAST SKY HI DRIVE AND THE WEST RIGHT-OF-WAY OF AZTEC CIRCLE; THENCE ALONG THE WEST RIGHT-OF-WAY OF AZTEC CIRCLE NORTH 02°51'42" EAST, A DISTANCE OF 244.96 FEET TO THE POINT OF BEGINNING;

THENCE NORTH 87°08'18" WEST, A DISTANCE OF 51.61 FEET TO THE POINT OF TERMINUS.

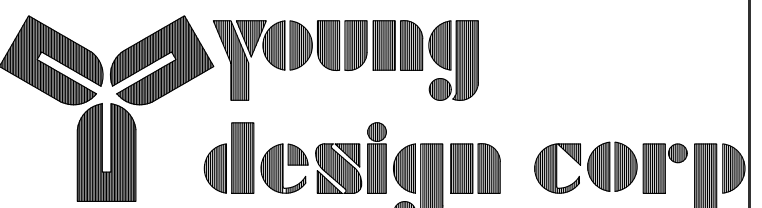
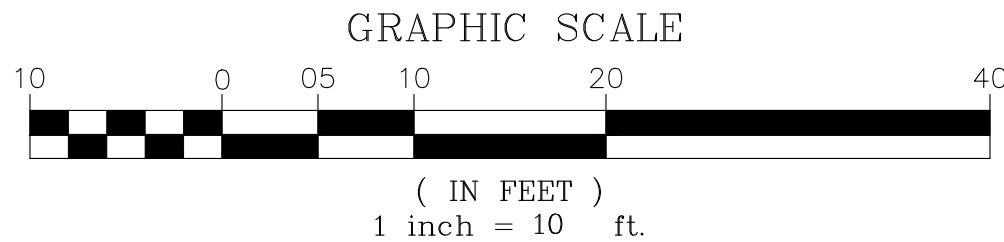
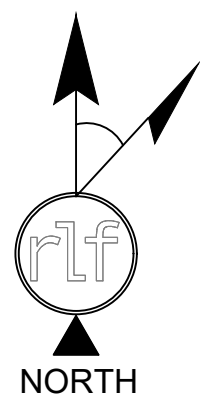
ALL SIDELINES TO BE LENGTHENED OR SHORTENED TO FORM ONE CONTIGUOUS PARCEL.

LESSEE LEASE AREA LEGAL DESCRIPTION
A PORTION OF LOT 21 OF SKY-HI-RETREAT UNIT ONE AMENDED, ACCORDING TO BOOK 13 OF MAPS, PAGE 8, RECORDS OF NAVAJO COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF THE NORTH RIGHT-OF-WAY OF EAST SKY HI DRIVE AND THE WEST RIGHT-OF-WAY OF AZTEC CIRCLE; THENCE ALONG THE WEST RIGHT-OF-WAY OF AZTEC CIRCLE NORTH 02°51'42" EAST, A DISTANCE OF 244.96 FEET; THENCE CONTINUING NORTH 02°51'42" EAST, A DISTANCE OF 31.49 FEET; THENCE NORTH 90°00'00" WEST, A DISTANCE OF 13.14 FEET; THENCE SOUTH 39°02'59" WEST, A DISTANCE OF 56.93 FEET; THENCE NORTH 85°52'40" WEST, A DISTANCE OF 50.21 FEET; THENCE NORTH 04°07'20" EAST, A DISTANCE OF 10.00 FEET TO THE POINT OF BEGINNING;

THENCE NORTH 04°07'20" EAST, A DISTANCE OF 45.00 FEET; THENCE SOUTH 85°52'40" EAST, A DISTANCE OF 45.00 FEET; THENCE SOUTH 04°07'20" WEST, A DISTANCE OF 45.00 FEET; THENCE NORTH 85°52'40" WEST, A DISTANCE OF 45.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 2025 SQUARE FEET OR 0.046 ACRES, MORE OR LESS.



architecture / project management
10245 E. Via Linda, Scottsdale, AZ 85258
ph: 480 451 9609 fax: 480 451 9608
e mail: corp@ydcoffice.com

FIELD BY: NAY
DRAWN BY: GAC
CHECKED BY: RLF

REVISIONS

NO.	DATE	DESCRIPTION
4	12/02/24	REVISION
3	11/22/24	FINAL
2	10/23/24	TITLE REVIEW
1	10/14/24	REVISION
0	10/08/24	PRELIMINARY



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PROJECT No.
2400798
SITE NAME:
SKY HI

SITE ADDRESS:
112 N AZTEC CIR
PINETOP, AZ 85935

SHEET TITLE:
TOPOGRAPHIC SURVEY

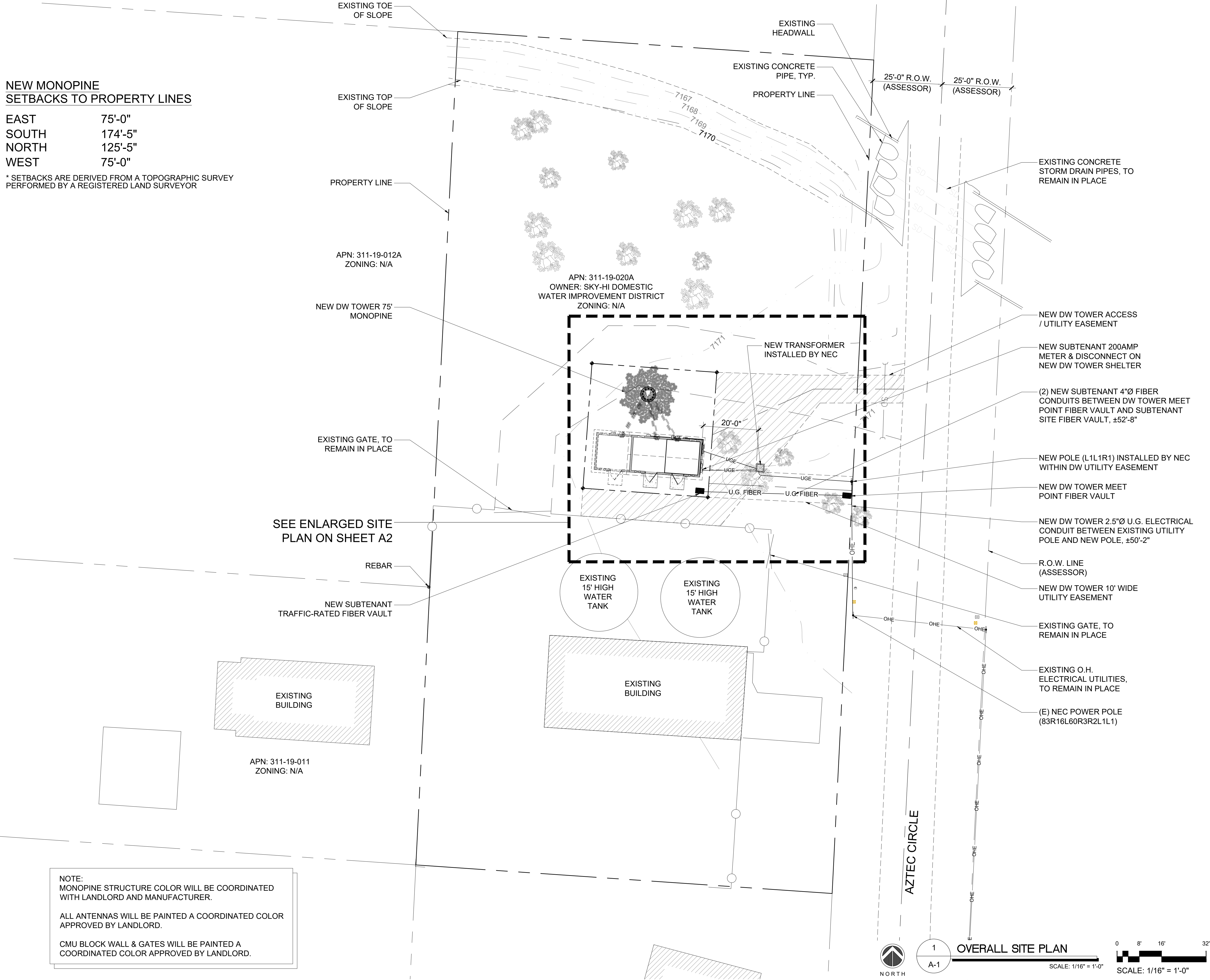
SHEET NO.
LS-2

REVISION:
3

NEW MONOPINE
SETBACKS TO PROPERTY LINES

EAST 75'-0"
SOUTH 174'-5"
NORTH 125'-5"
WEST 75'-0"

* SETBACKS ARE DERIVED FROM A TOPOGRAPHIC SURVEY
PERFORMED BY A REGISTERED LAND SURVEYOR



NOTE:
MONOPINE STRUCTURE COLOR WILL BE COORDINATED
WITH LANDLORD AND MANUFACTURER.

ALL ANTENNAS WILL BE PAINTED A COORDINATED COLOR
APPROVED BY LANDLORD.

CMU BLOCK WALL & GATES WILL BE PAINTED A
COORDINATED COLOR APPROVED BY LANDLORD.

CLIENT

DW Tower, LLC

CARRIER

PLANS PREPARED BY

architecture / project management
10245 E. Via Linda, Scottsdale, AZ 85258
ph: 480 451 9609 fax: 480 451 9608
e mail: corporate@ydcoffice.com

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ARCHITECTS JOB NO.

YDC - 11240

PROJECT INFORMATION

SKY HI

112 N. AZTEC CIRCLE
PINETOP, AZ 85935

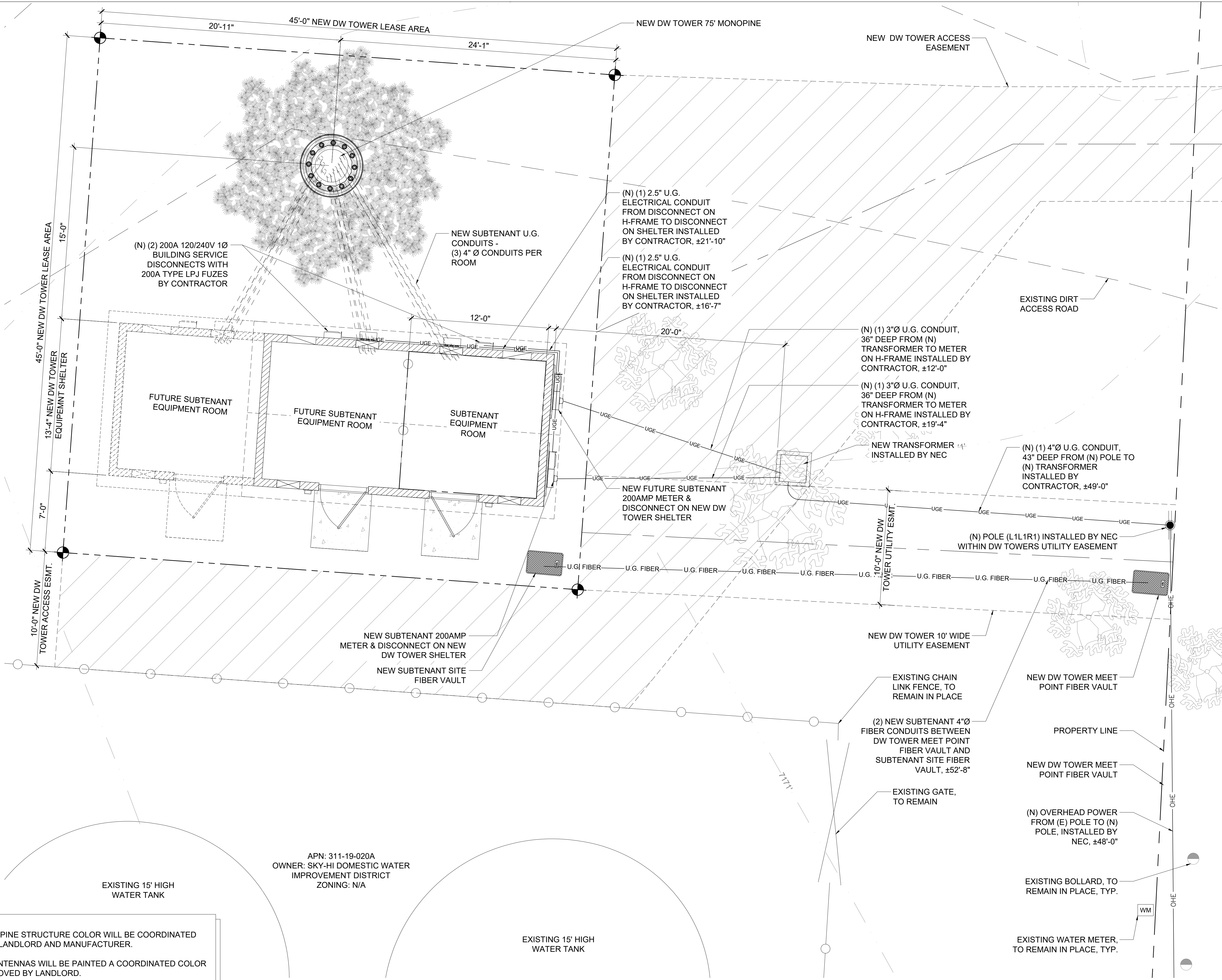
SHEET TITLE

SITE PLAN

JURISDICTION APPROVAL

SHEET NUMBER

A-1



NOTE:
MONOPINE STRUCTURE COLOR WILL BE COORDINATED
WITH LANDLORD AND MANUFACTURER.

ALL ANTENNAS WILL BE PAINTED A COORDINATED COLOR
APPROVED BY LANDLORD.

CMU BLOCK WALL & GATES WILL BE PAINTED A
COORDINATED COLOR APPROVED BY LANDLORD.

APN: 311-19-020A
OWNER: SKY-HI DOMESTIC WATER
IMPROVEMENT DISTRICT
ZONING: N/A



1
A-2

ENLARGED SITE PLAN


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



0 2' 4' 8'

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

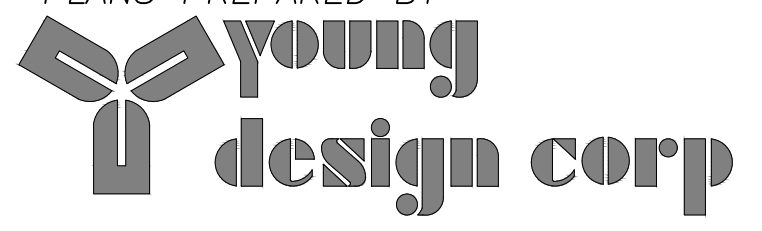
CLIENT



DW Tower, LLC

CARRIER

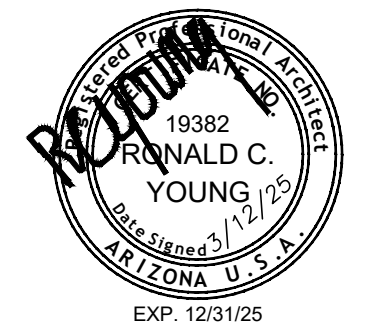
PLANS PREPARED BY



young
design corp

architecture / project management
10245 E. Via Linda, Scottsdale, AZ 85258
ph: 480 451 9609 fax: 480 451 9608
e mail: corporate@ydcoffice.com

SEAL



19382
RONALD C.
YOUNG
STATE OF ARIZONA
U.S.A.
EXP. 12/31/25

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ARCHITECTS JOB NO.

YDC - 11240

PROJECT INFORMATION

SKY HI

112 N. AZTEC CIRCLE
PINETOP, AZ 85935

SHEET TITLE

ENLARGED SITE PLAN

JURISDICTION APPROVAL

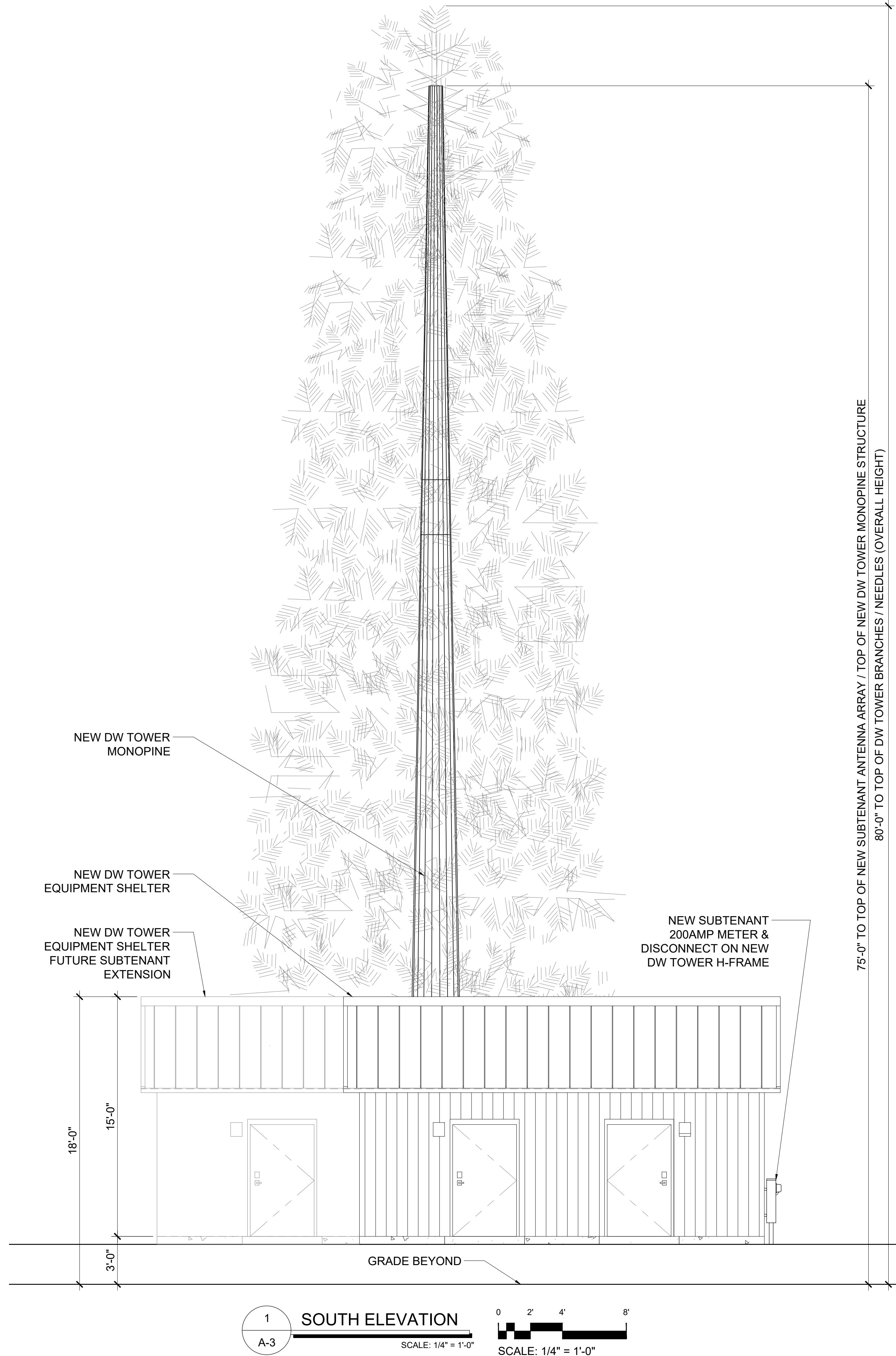
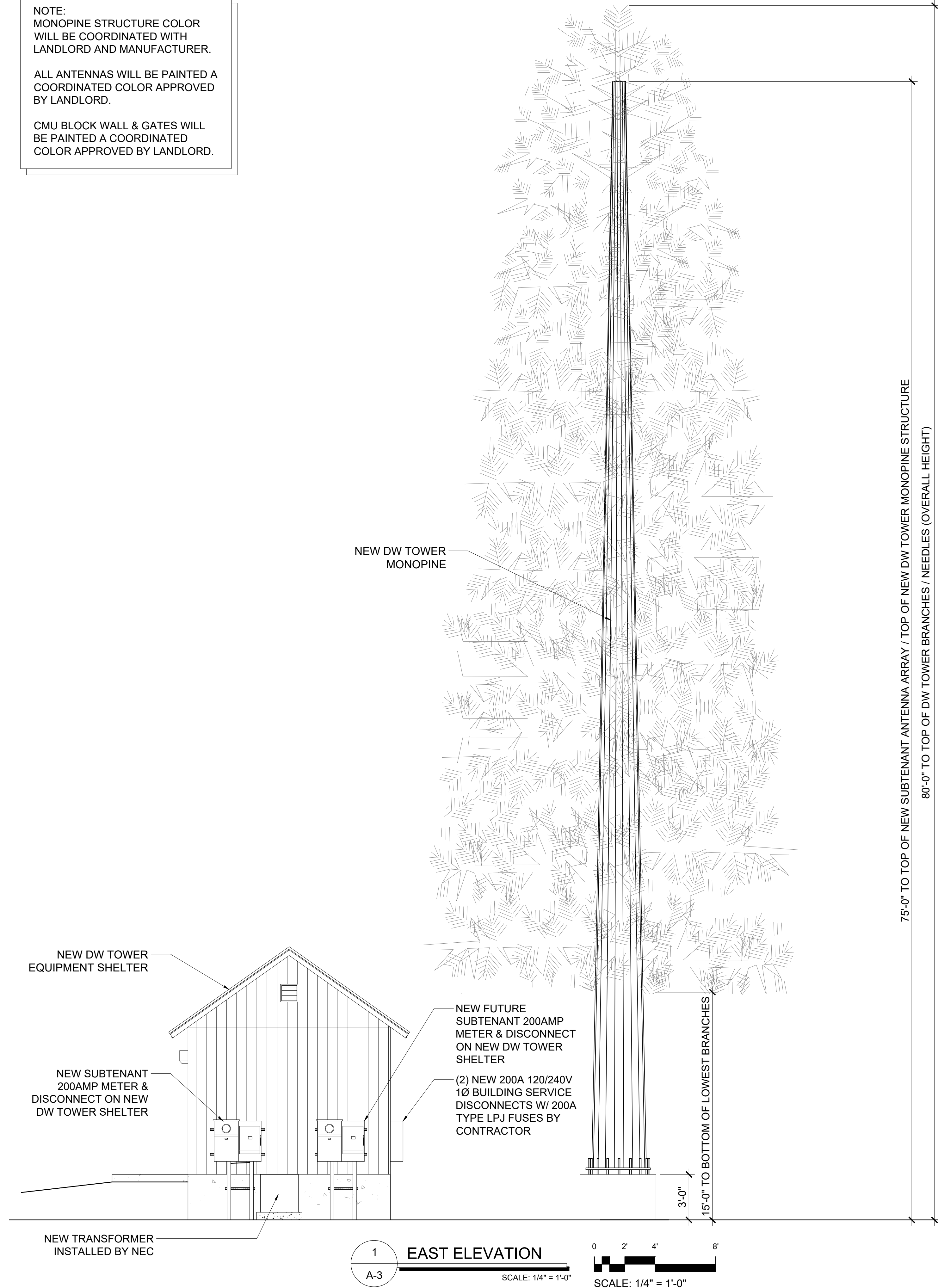
SHEET NUMBER

A-2


NOTE:
MONOPINE STRUCTURE COLOR
WILL BE COORDINATED WITH
LANDLORD AND MANUFACTURER.

ALL ANTENNAS WILL BE PAINTED A
COORDINATED COLOR APPROVED
BY LANDLORD.

CMU BLOCK WALL & GATES WILL
BE PAINTED A COORDINATED
COLOR APPROVED BY LANDLORD.




CLIENT



DW Tower, LLC

CARRIER

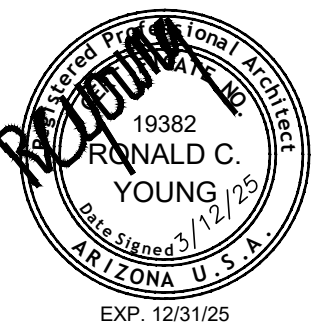
PLANS PREPARED BY



young
design corp

architecture / project management
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SEAL



19382
RONALD C.
YOUNG
Professional Engineer
STATE OF ARIZONA U.S.A.
EXP. 12/31/25

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NO.	DATE	DESCRIPTION
1	02/28/2025	PRELIMINARY CD'S

ARCHITECTS JOB NO.

YDC - 11240

PROJECT INFORMATION

SKY HI

112 N. AZTEC CIRCLE
PINETOP, AZ 85935

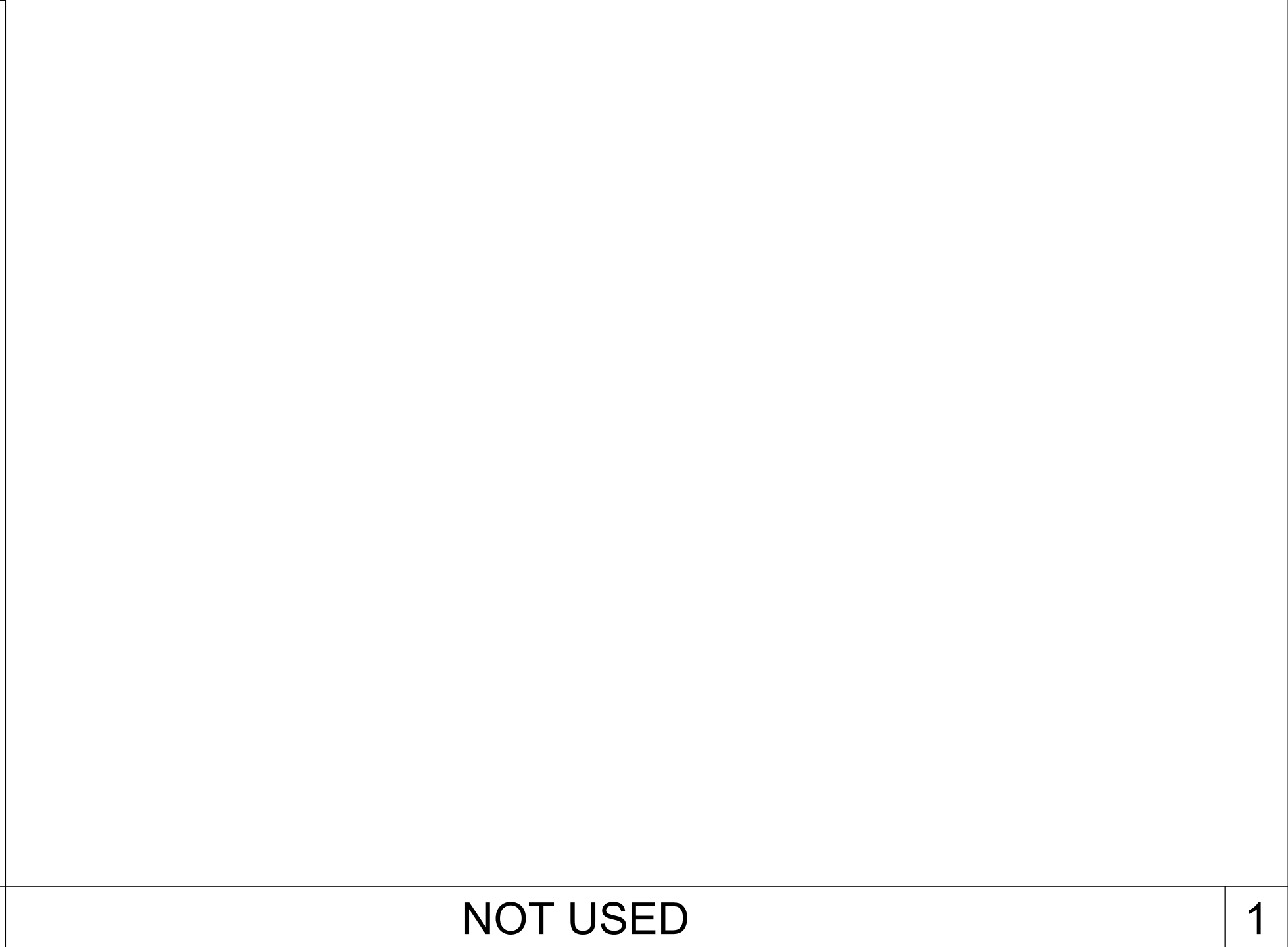
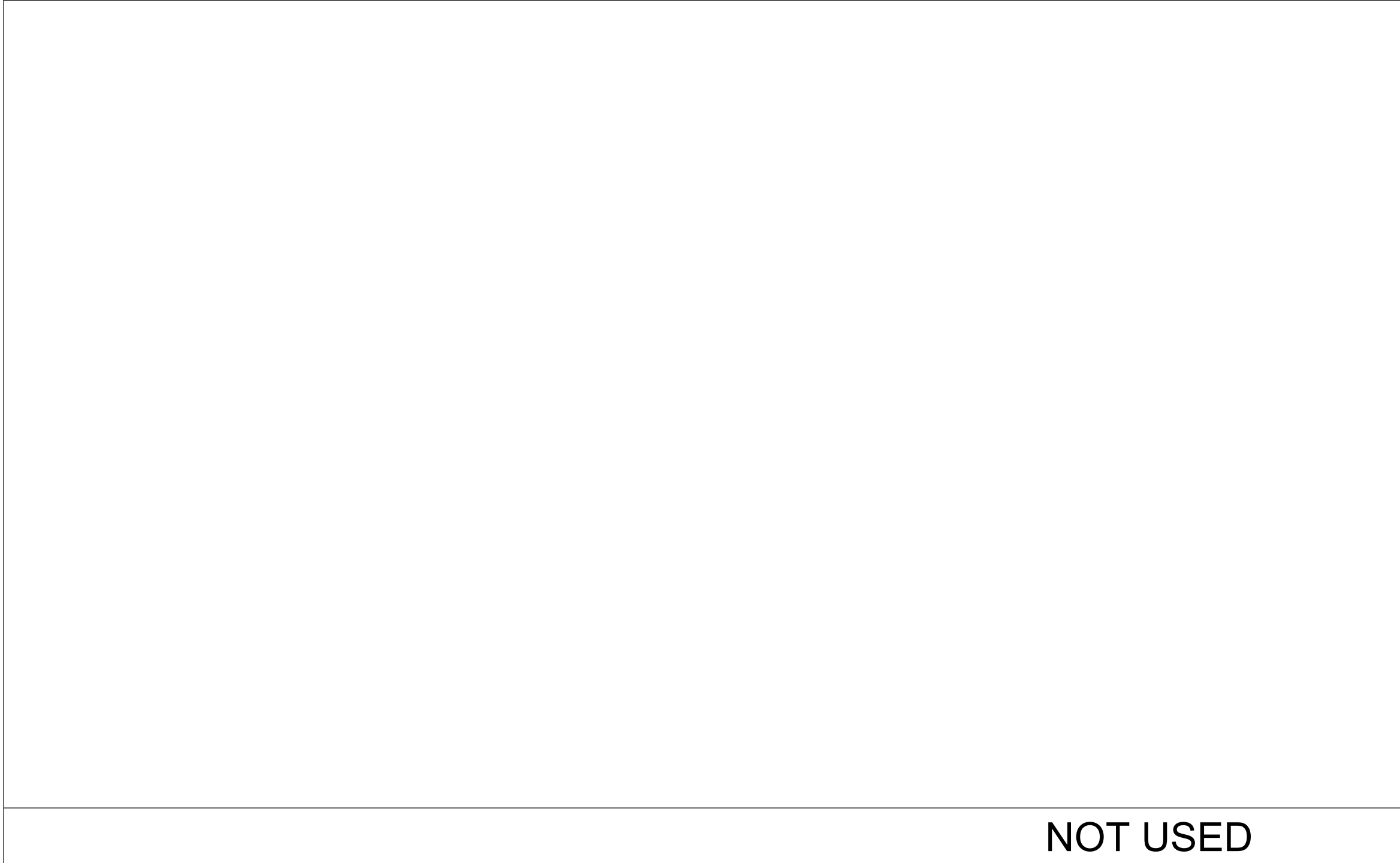
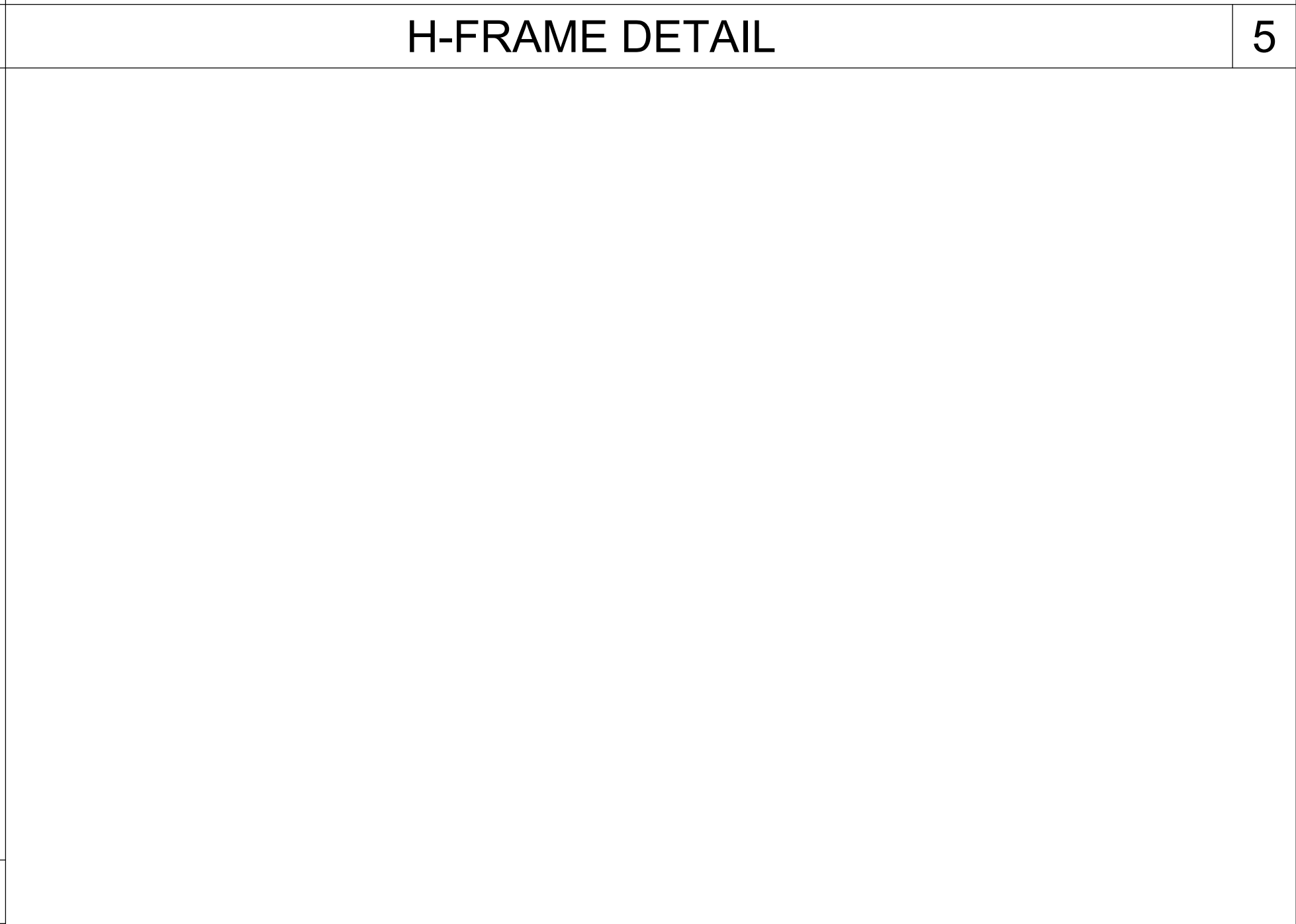
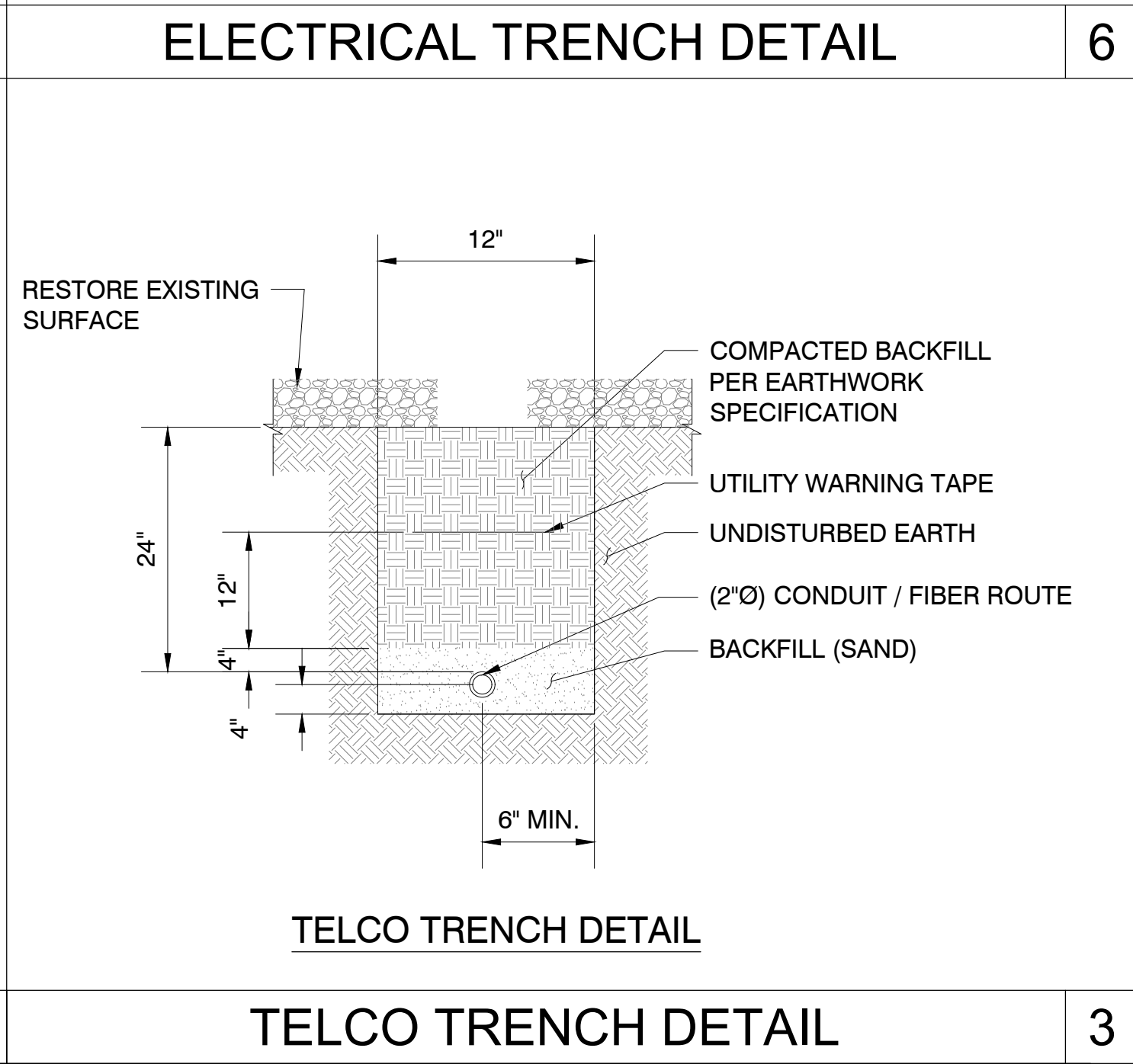
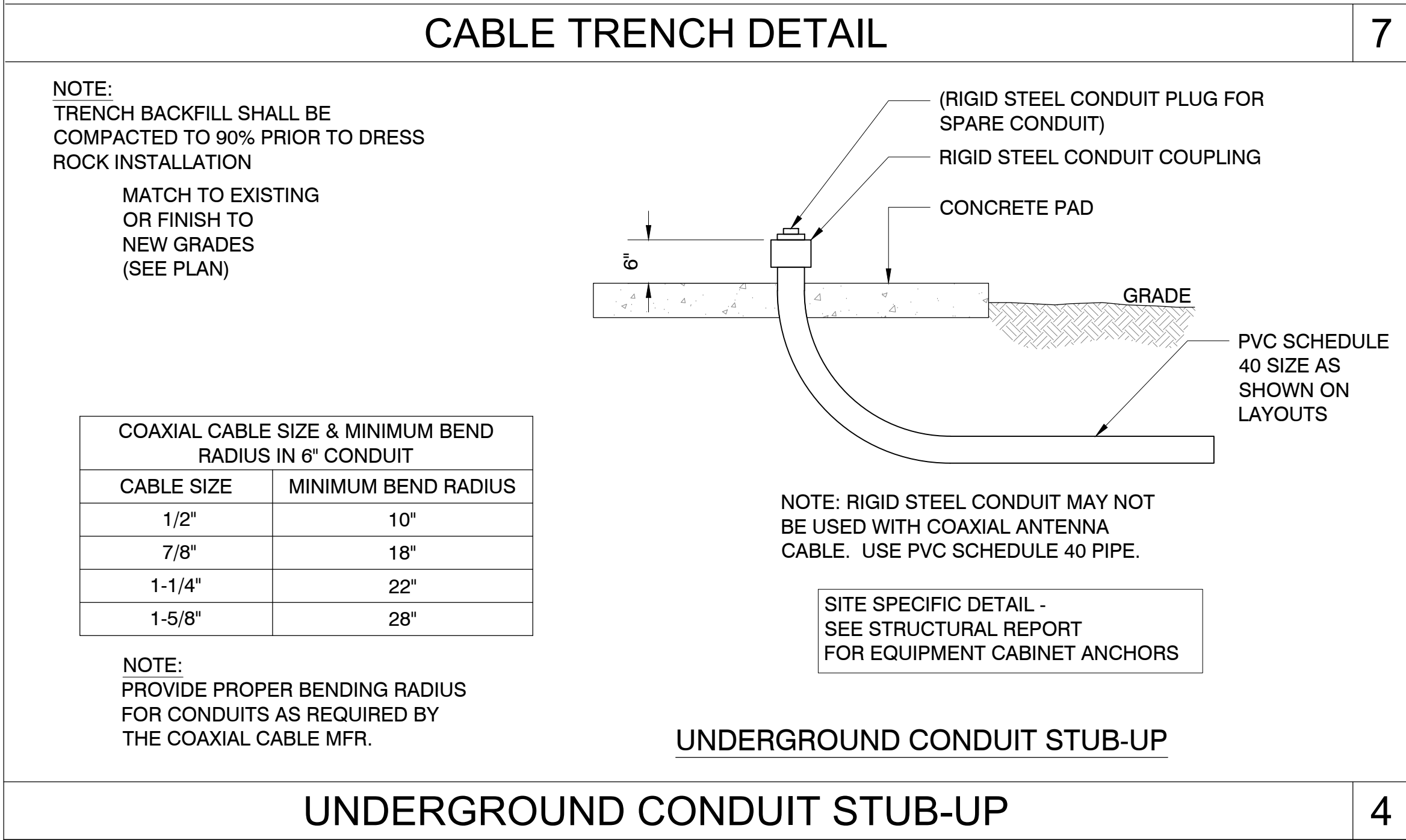
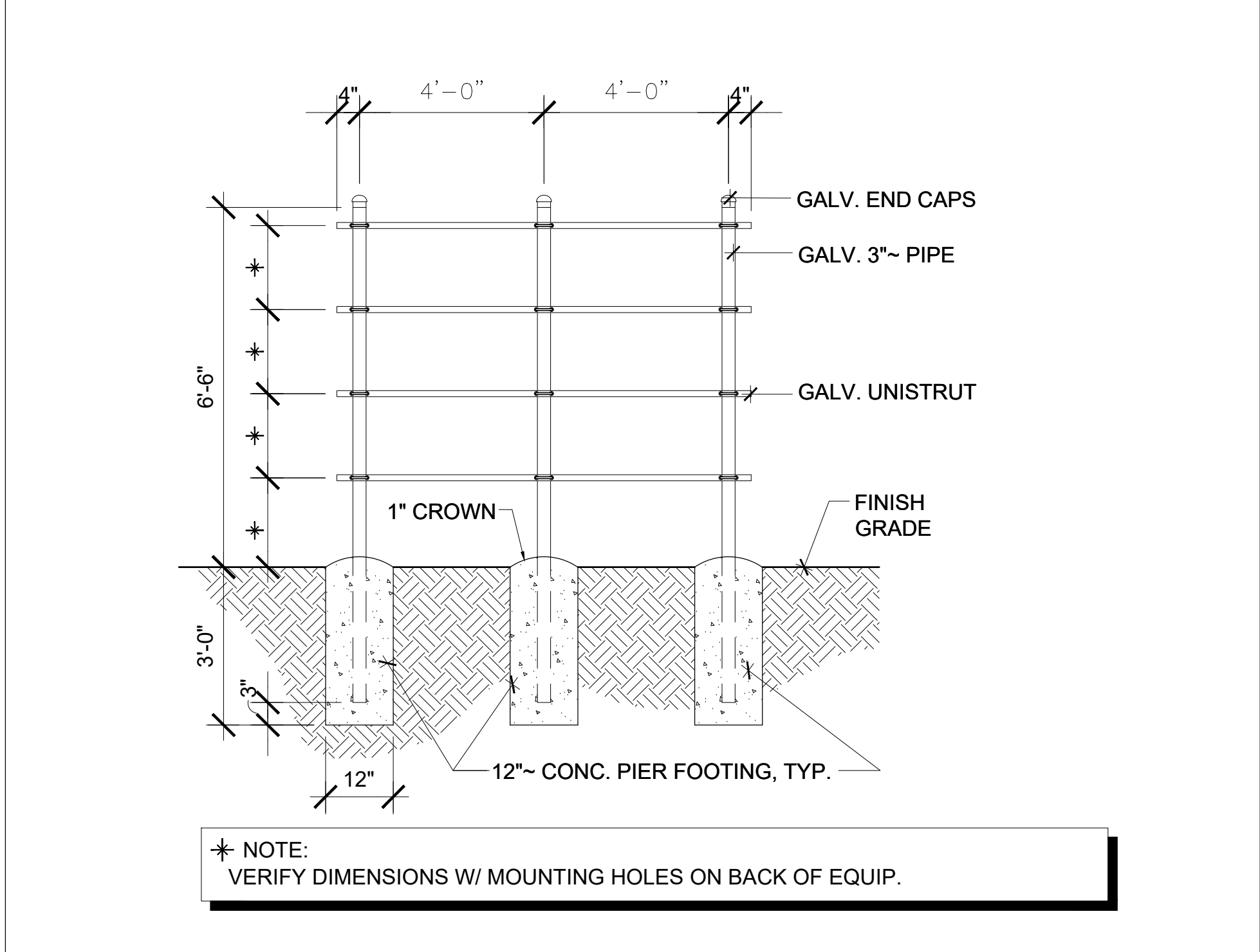
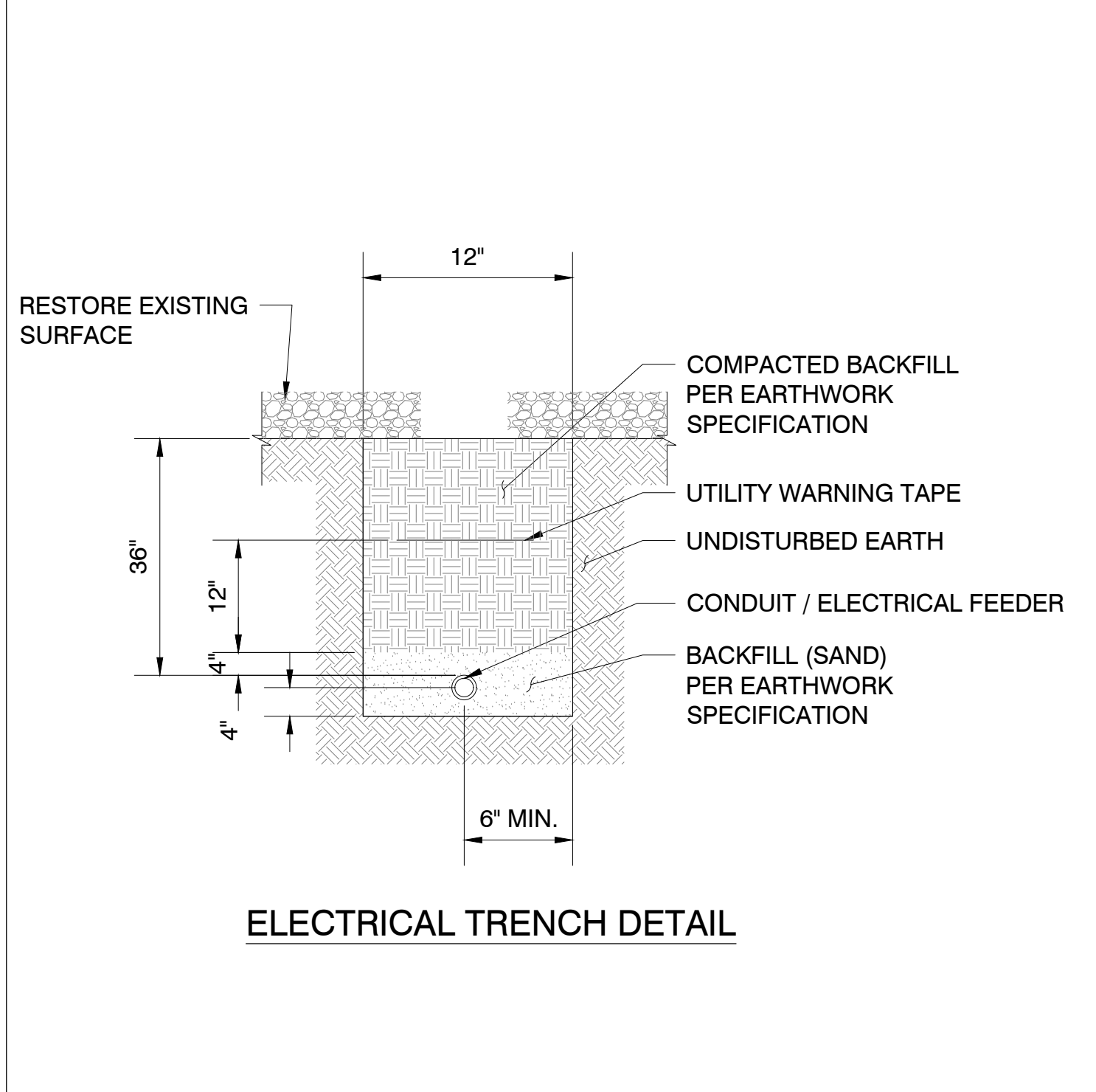
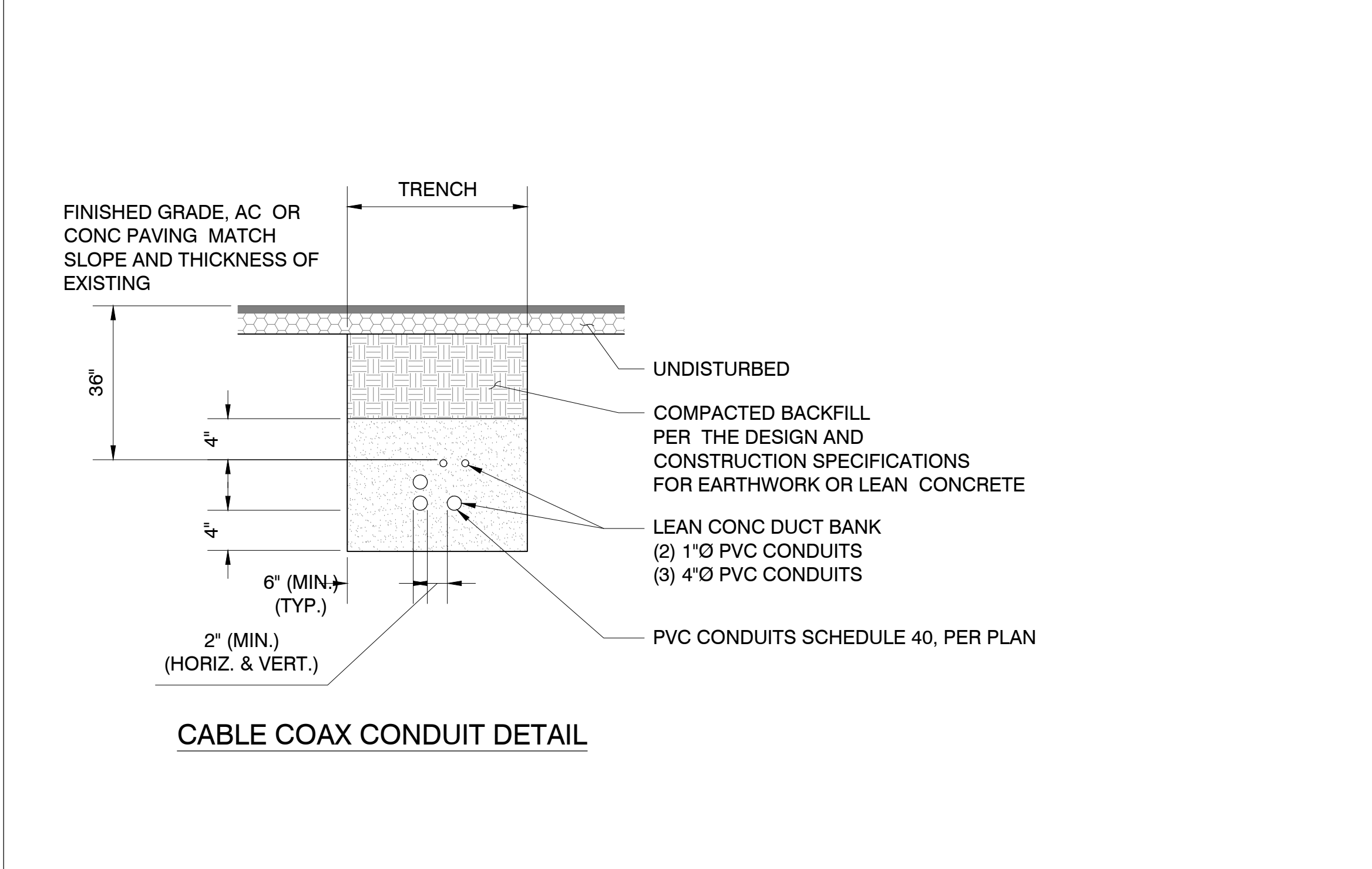
SHEET TITLE

ELEVATIONS

JURISDICTION APPROVAL

SHEET NUMBER

A-3



CLIENT

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CARRIER

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PRELIMINARY UNLESS SIGNED

NO.	DATE	DESCRIPTION
1	02/28/2025	PRELIMINARY CD'S

ARCHITECTS JOB NO.
YDC - 11240

PROJECT INFORMATION

SKY HI

112 N. AZTEC CIRCLE
PINETOP, AZ 85935

SHEET TITLE
DETAILS

JURISDICTION APPROVAL

SHEET NUMBER
A-4

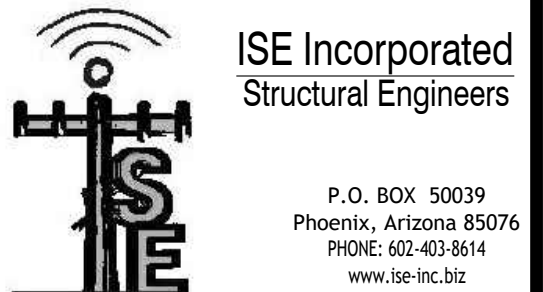


DW TOWER - SKY HI

SKY-HI DOMESTIC WATER IMPROVEMENT DISTRICT

EQUIPMENT SHELTER

112 N AZTEC CIRCLE, PINETOP, AZ 85935
LATITUDE: 34° 20' 12.69" N, LONGITUDE: 110° 47' 57.24" W

[illegible]

ISE JOB #: 19952

DW TOWER - SKY HI
SKY-HI DOMESTIC WATER IMPROVEMENT DISTRICT
EQUIPMENT SHELTER
GENERAL NOTES

112 N AZTEC CIRCLE, PINETOP, AZ 85935
LATITUDE: 34° 20' 12.69" N, LONGITUDE: 110° 47' 57.24" W

GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY DIMENSIONS, CONDITIONS, AND ELEVATIONS BEFORE STARTING WORK. SEE SPECIAL CONSTRUCTION NOTES THIS PAGE. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
2. THE TYPICAL NOTES AND DETAILS SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY DETAILED ELSEWHERE. WHERE NO DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE AS SHOWN FOR OTHER SIMILAR WORK AND AS REQUIRED BY THE BUILDING CODE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH LOCAL CONSTRUCTION SAFETY ORDERS. APPROVAL OF SHOP DRAWINGS BY THE ARCHITECT OR STRUCTURAL ENGINEER SHALL NOT BE CONSTRUED AS ACCEPTING THIS RESPONSIBILITY.
4. ALL STRUCTURAL FRAMING MEMBERS SHALL BE ADEQUATELY SHORED AND BRACED DURING ERECTION AND UNTIL FULL LATERAL AND VERTICAL SUPPORT IS PROVIDED BY ADJOINING MEMBERS.

CONSTRUCTION NOTES:

1. IF EXISTING CONDITIONS ARE NOT AS INDICATED ON DRAWINGS, THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER (GLEN HUNT) AT [REDACTED] INCORPORATED, FOR IN FIELD ADJUSTMENT(S), PRIOR TO PROCEEDING WITH ANY CONSTRUCTION.
2. CONTRACTOR TO FIELD VERIFY AND/OR FIELD LOCATE ALL ITEMS LABELED AS FIELD VERIFY OR FIELD LOCATE.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING BUILDING CONSTRUCTION IN THE AREA THAT EPOXY SET ANCHORS ARE USED AND INSTALL ANCHORS WITH THE CORRECT EPOXY.

CONCRETE:

1. CONCRETE: F'c = 2500 PSI @ 28 DAYS
TYPE II CEMENT, W/C ≤ 0.45, 4% TO 6% AIR ENTRAINED
PLACE CONCRETE AT 4" SLUMP MAX. AND CONSOLIDATE WITH MECHANICAL VIBRATION
2. REINFORCING STEEL: A615 GR 60 MINIMUM
3. SLAB SURFACE FINISH LEVEL TOLERANCE: $\pm 1/4"$
4. EXISTING NATIVE SOIL TO BE GRADED, SHAPED, AND COMPACTED BENEATH SLAB.
ALL FOOTING EXCAVATION SHALL BE CLEAN AND FREE OF DEBRIS AND LOOSE SOIL PRIOR TO CONCRETE PLACEMENT.
5. REINFORCING STEEL SHALL BE PLACED, TIED, AND SPACED PER PLANS AND ACI 318 SPECIFICATIONS.
BARS MAY BE SPLICED WITH MINIMUM 24" OVERLAP.
6. SET FOOTING STEEL ON CHAIRS, OR DOBE SUPPORTS. DO NOT ALLOW SUPPORTS TO SINK INTO GRADE.
7. SOILS: VANN ENGINEERING PROJECT 23314, DATED 11-26-14, ALLOWABLE BEARING PRESSURE = 3500 PSF.

WOOD:

- 1) ALL PLYWOOD SHALL BE C-D EXTERIOR GRADE SHEATHING STRUCTURAL 2 OR BETTER WITH EXTERIOR GLUE AND SHALL BEAR THE STAMP OF APPROVED TESTING AGENCY.
- 2) ALL FRAMED WALLS ARE TO BE FRAMED AS SHEAR WALLS: 1/2" WITH #10 FLAT HEAD SCREWS AT 6" ON CENTER AT ALL EDGES AND 12" ON CENTER AT INTERIOR STUDS.
- 3) ALL SAWN LUMBER SHALL BE DF#2 OR BETTER.

DEFERRED SUBMITTALS:

- ## 1) PRE-ENGINEERED WOOD TRUSSES

CODE COMPLIANCE:

IBC 2018

DESIGN WIND : 115 MPH ULTIMATE WIND SPEED

SEISMIC DESIGN CLASS: B

SOIL SITE CLASS: D

$$S_s = 0.255, \quad S_1 = 0.080$$
$$S_{DS} = 0.271 \quad S_{D1} = 0.127$$
$$C_S = 0.136$$

DRAWING SCALES:

FULL SCALE (1:1) (100%) ON (ANSI D) 34" X 22"

HALF SCALE (1:2) (50%) ON 11" X 17"

PROGRESS LOG

0	02/25/25 ISSUED TO CLIENT	CK

SHEET NUMBER

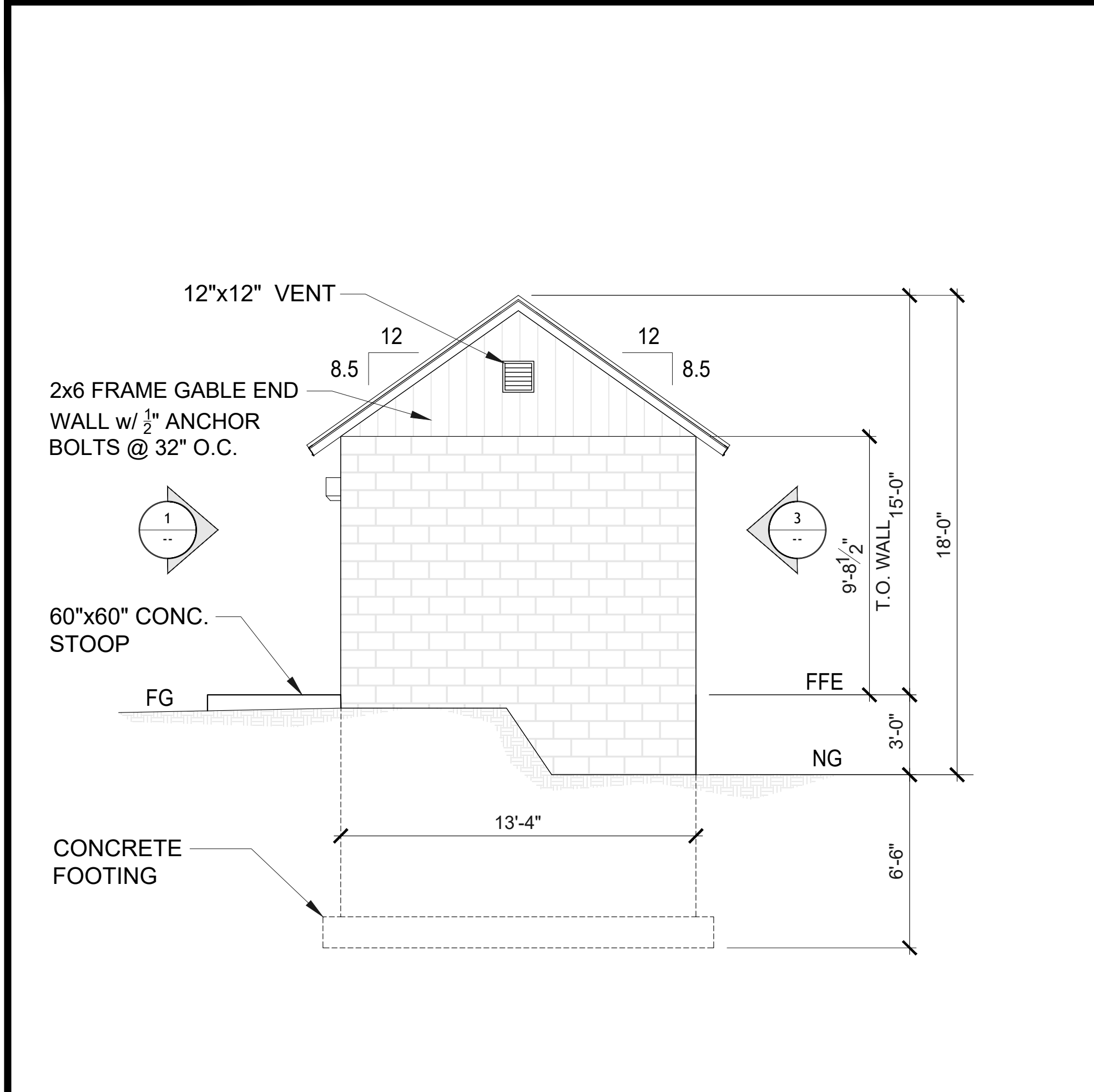
GSN

PROGRESS

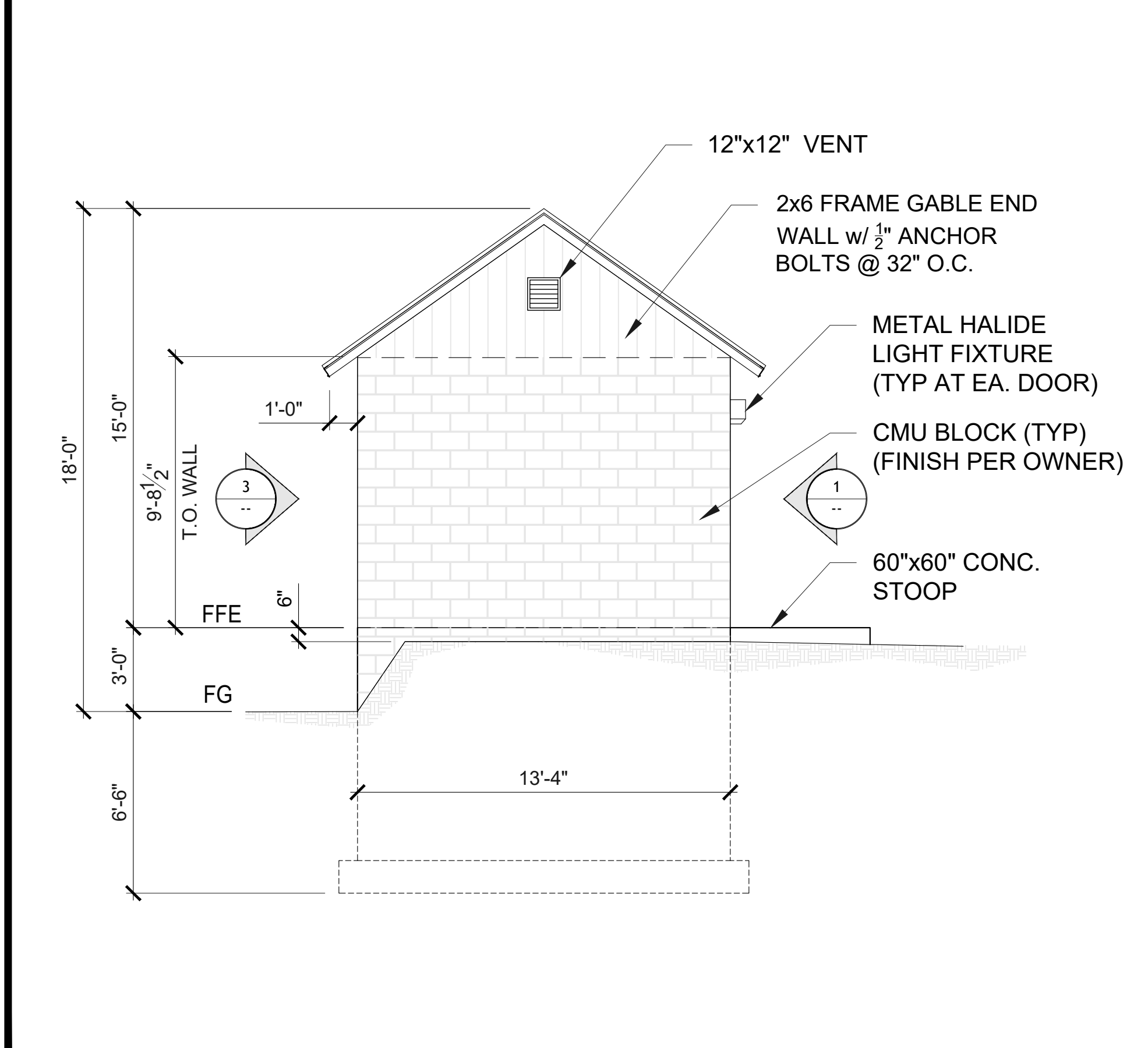
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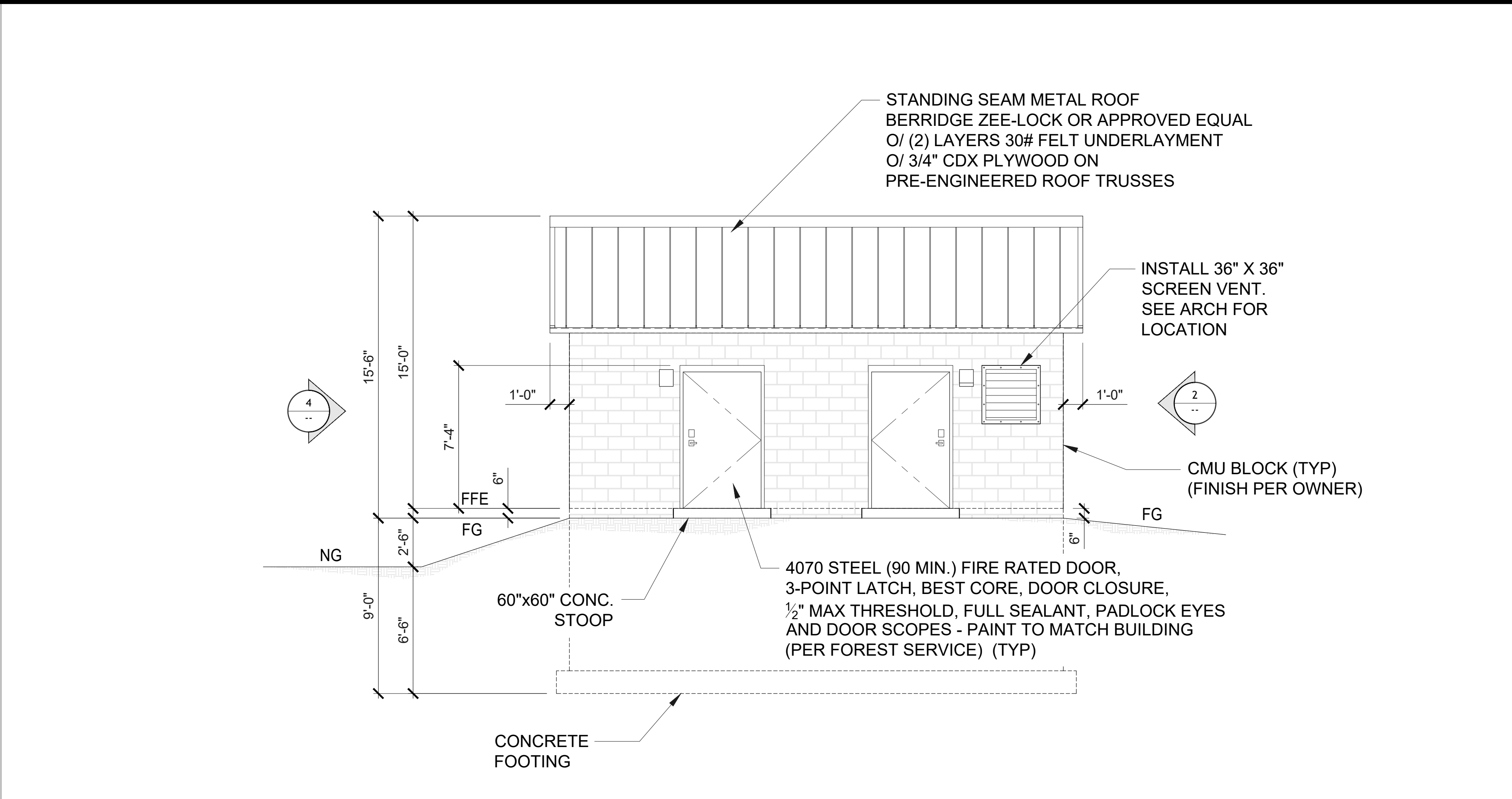
February 25, 2025



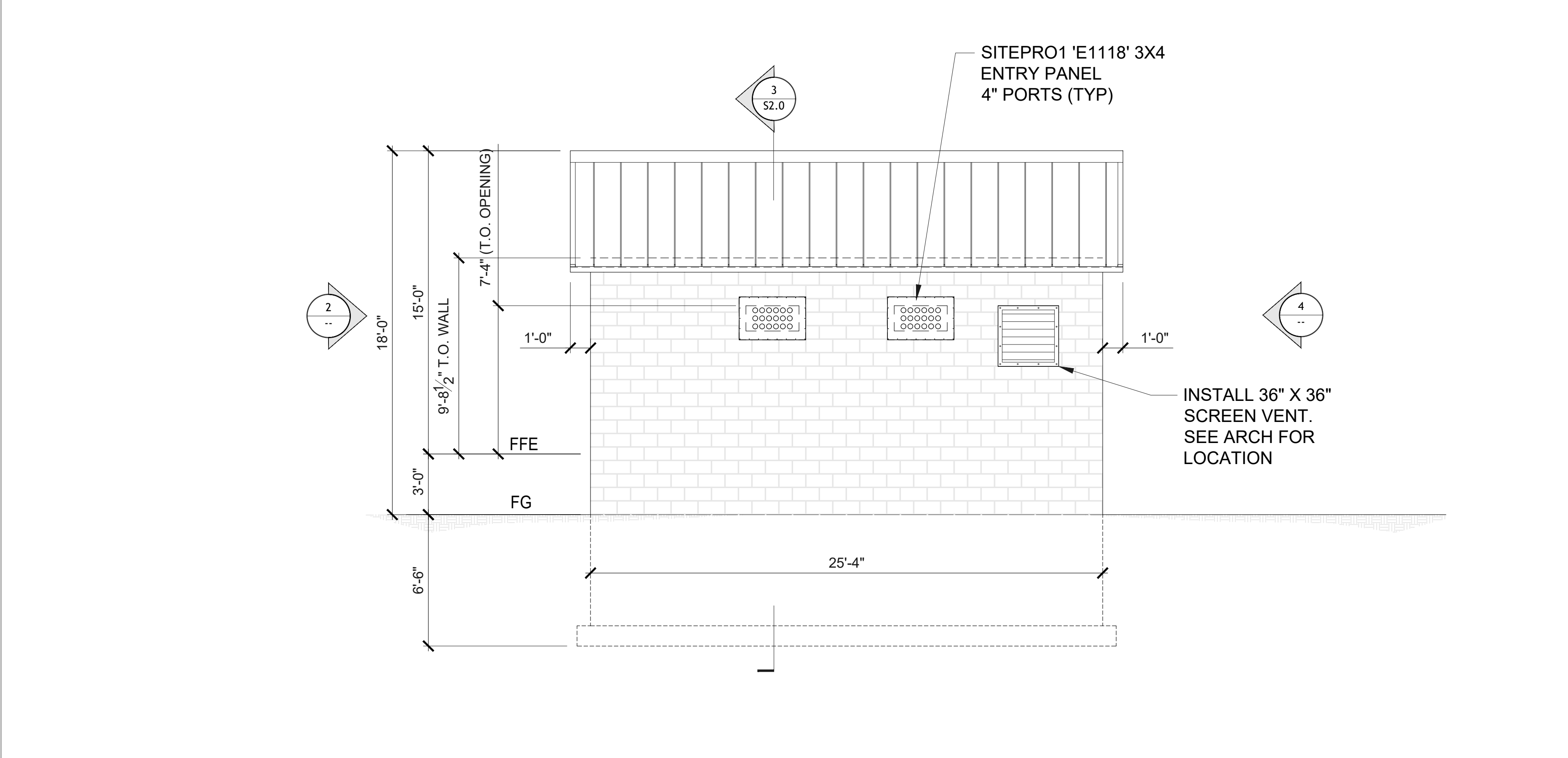
2 EAST ELEVATION




4 WEST ELEVATION



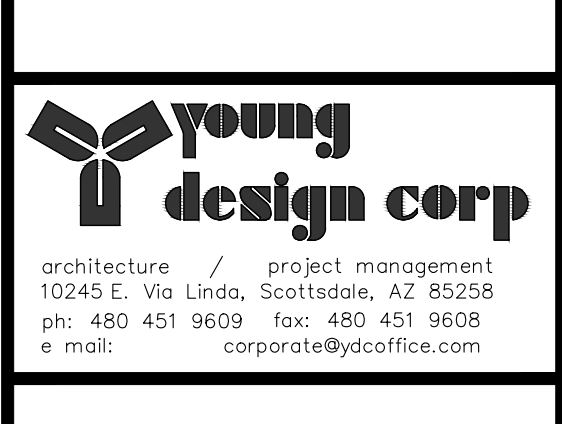
1 SOUTH ELEVATION



3 NORTH ELEVATION



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ISE JOB #: 19952

DW TOWER - SKY HI
SKY-HI DOMESTIC WATER IMPROVEMENT DISTRICT
EQUIPMENT SHELTER
ELEVATIONS

112 N AZTEC CIRCLE, PINETOP, AZ 85935
LATITUDE: 34° 20' 12.69" N, LONGITUDE: 110° 47' 57.24" W

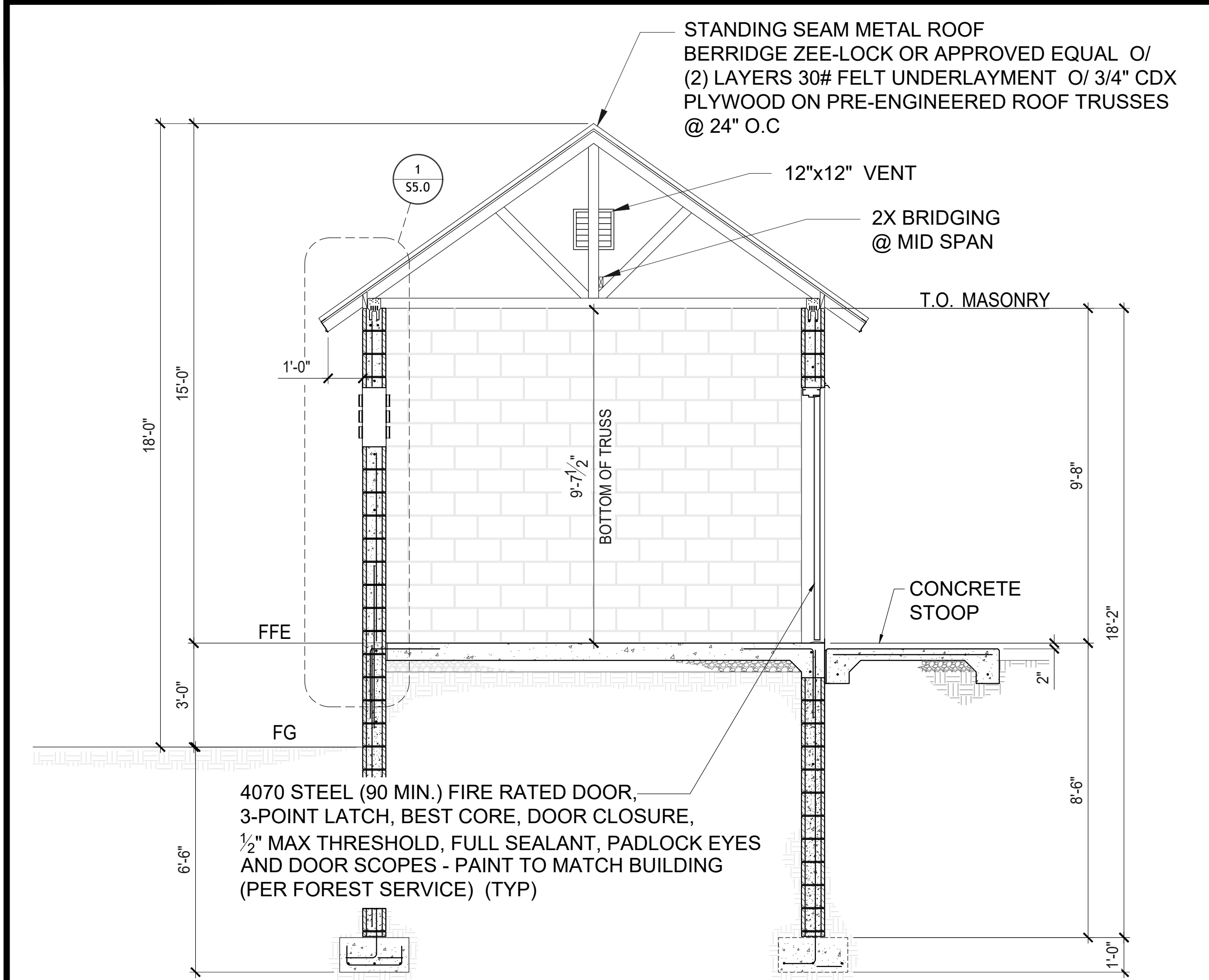


PROGRESS LOG

DATE	DESCRIPTION	BY
02/25/25	ISSUED TO CLIENT	CK

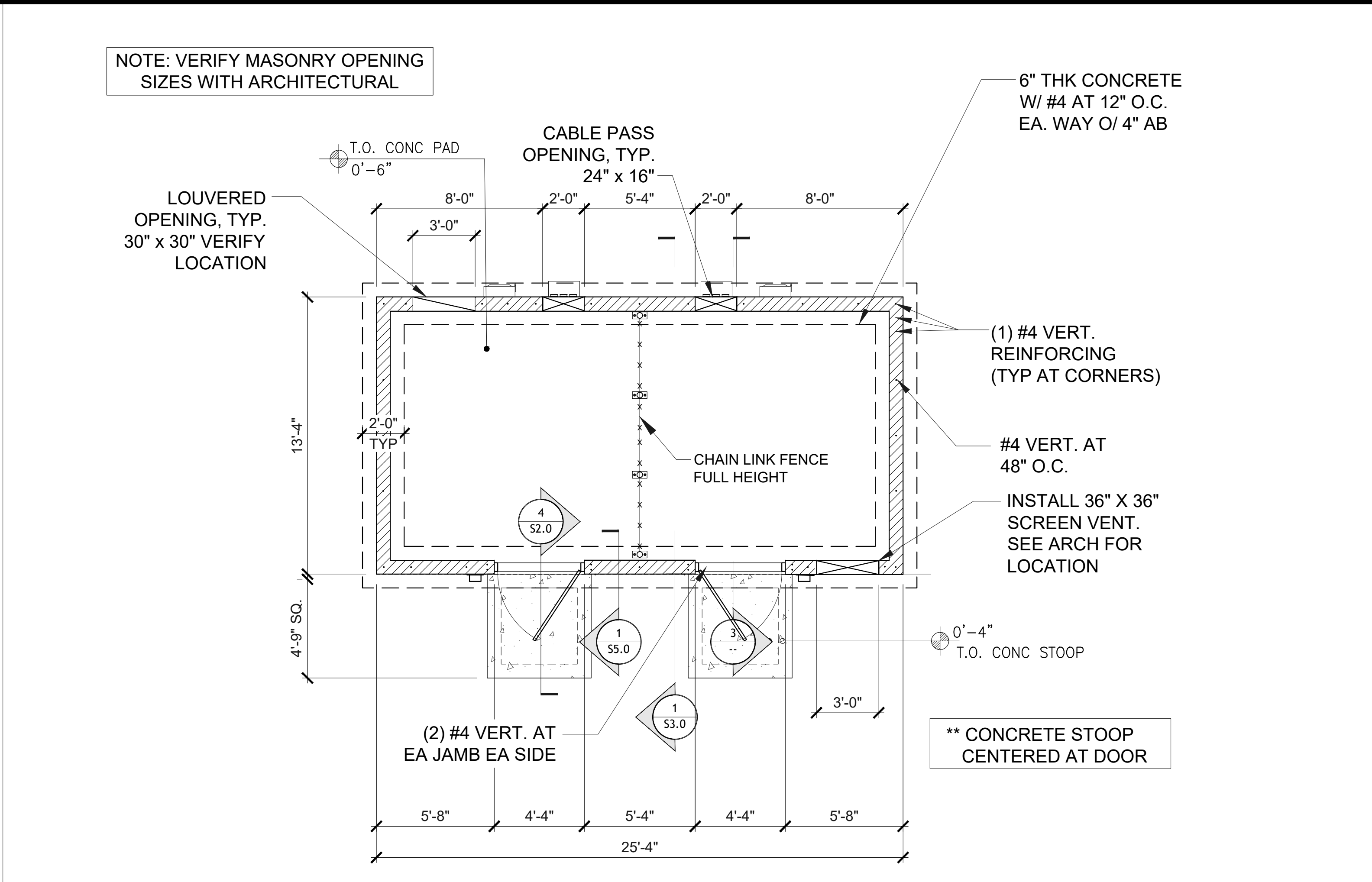
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DRAWING DATE
February 25, 2025



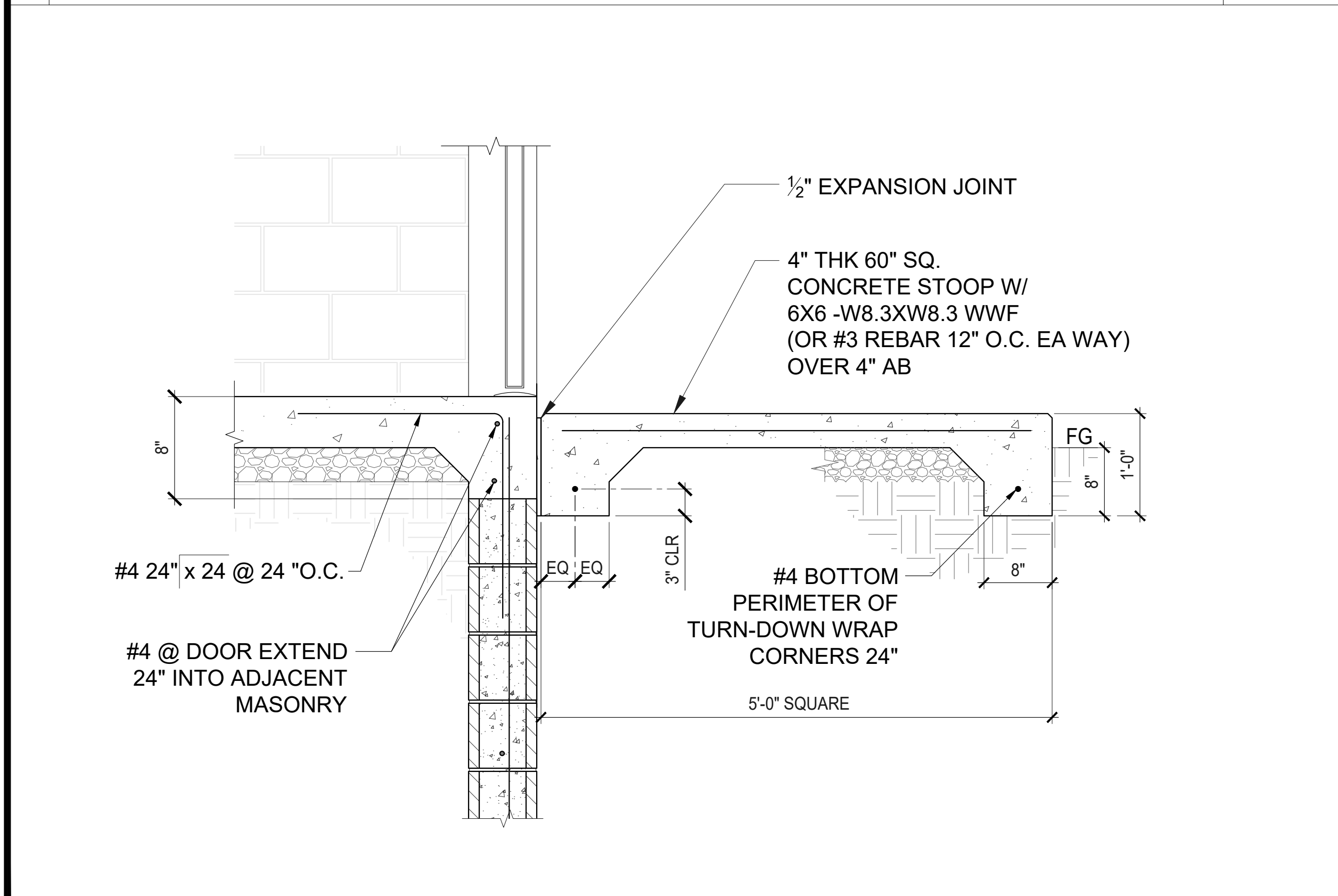
3 BUILDING SECTION

SCALE:
3/8"=1'-0"



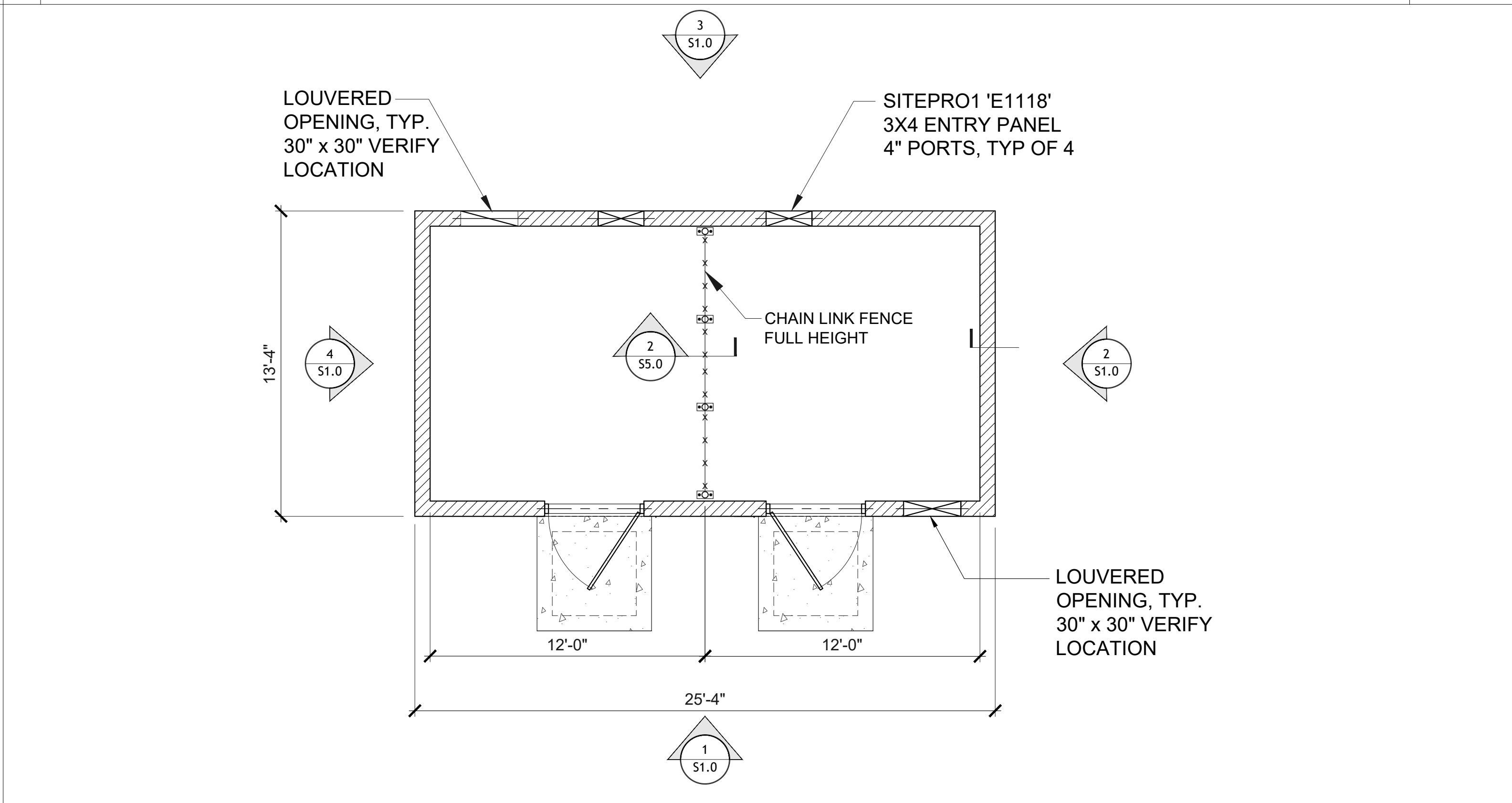
1 FOUNDATION

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



4 SECTION THROUGH FOOTING AND STOOP

SCALE:
1"=1'-0"



2 INTERIOR FLOOR PLAN

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

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DW TOWER - SKY HI
SKY-HI DOMESTIC WATER IMPROVEMENT DISTRICT
EQUIPMENT SHELTER
FOUNDATION DETAILS

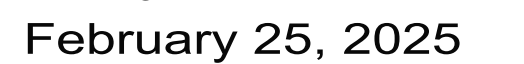
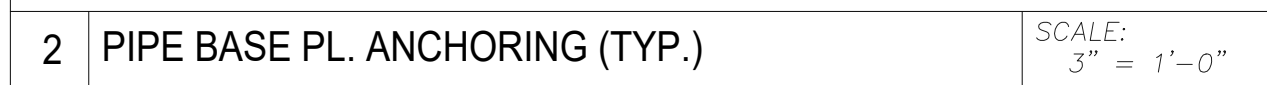
112 N AZTEC CIRCLE, PINETOP, AZ 85935
LATITUDE: 34° 20' 12.69" N. LONGITUDE: 110° 47' 57.24" W

Professional Engineer
Glen L. Hunt III
No. 52229
Expires 6/30/2025

PROGRESS LOG		
01/25/25	ISSUED TO CLIENT	CK

SHEET NUMBER	PROGRESS
S2.0	0

DRAWING DATE
February 25, 2025



HEADER SCHEDULE

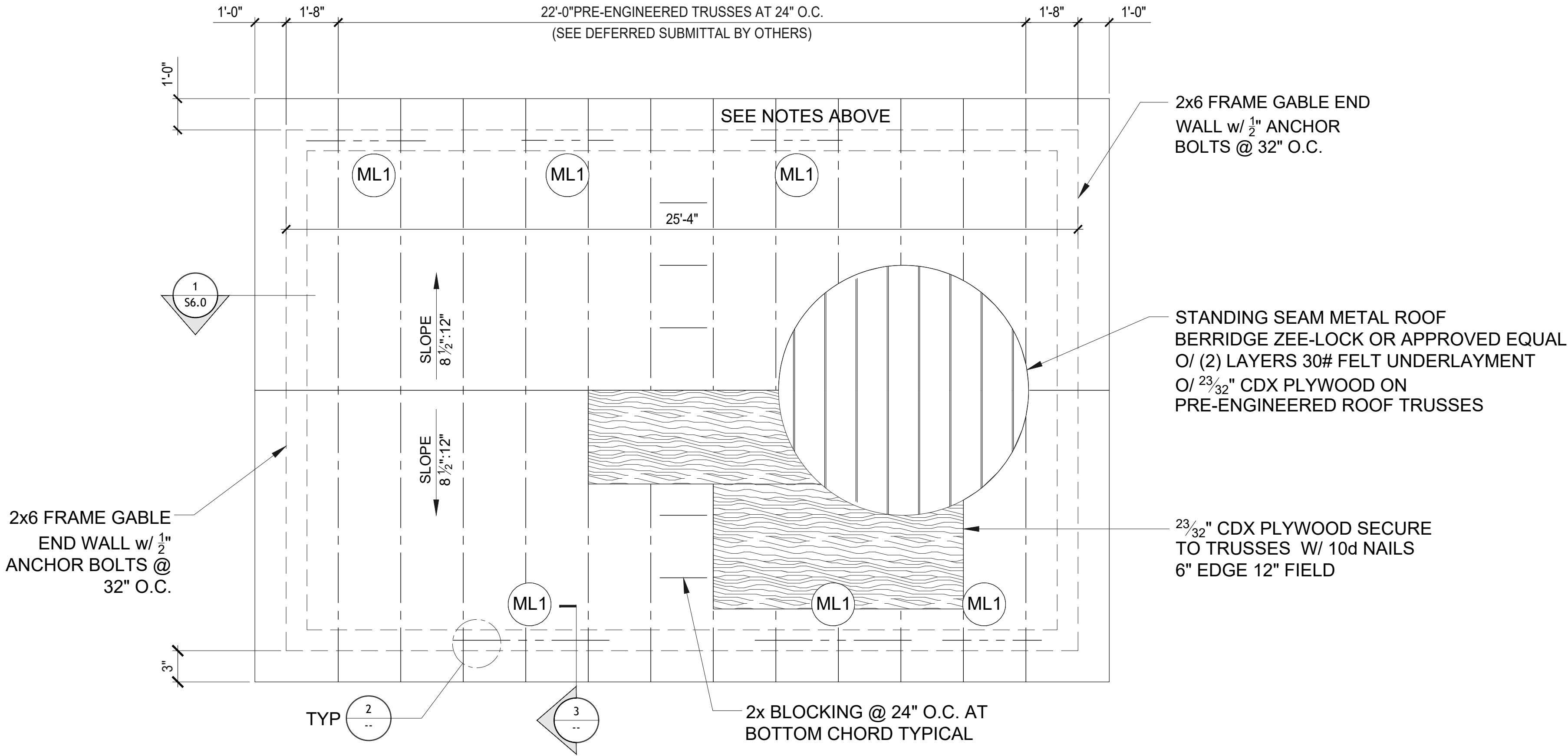
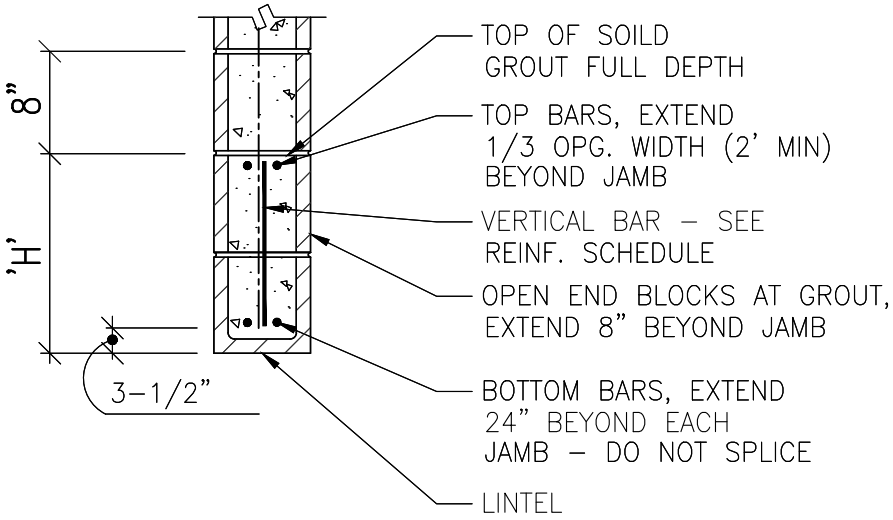
ML1 SEE MASONRY LINTEL SCHEDULE

NOTES:
1. FRAME OPENING FOR FOR FUTURE 4070 DOOR.
2. INSTALL 48"X48" SCREENED VENT.
3. INFILL OPENING AS REQ'D FOR VENT.

NOTES:

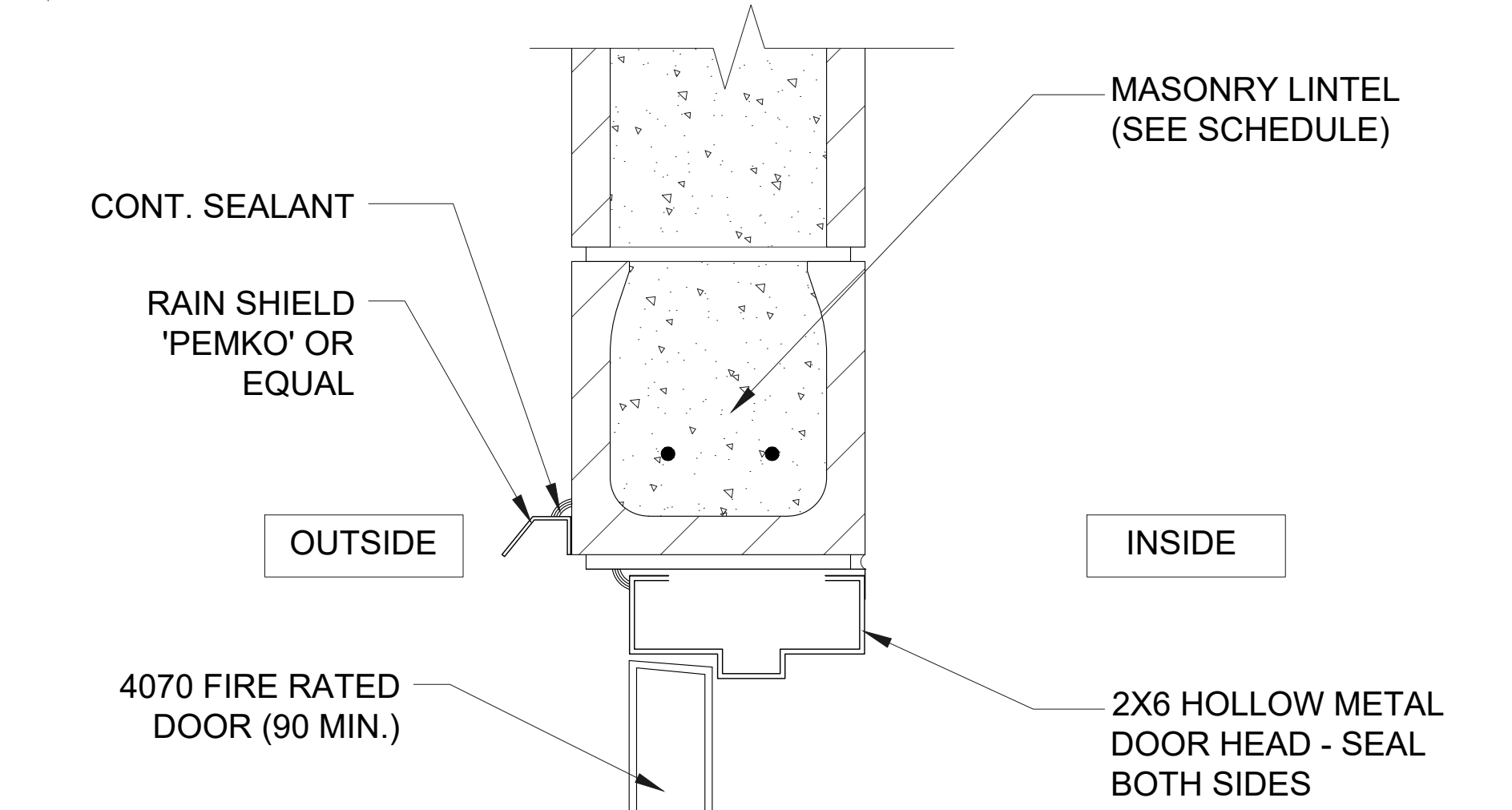
1. GLULAM BEAM (GLB) DF/DF 16F-V3
2. INSTALL ALL SIMPSON STRONG-TIE PRODUCTS PER RECOMMENDATIONS AND SPECIFICATIONS.
3. ECCL-444 ORDER WITHOUT LEGS OR REMOVE LEGS BEFORE INSTALLING 3" SCH 40 COLUMN. BEAM 'A' & BEAM 'B' SHOWN PER SIMPSON ILLUSTRATION SPECIAL-ORDER WORK SHEET. (ECCL / EDDLRL)

LINTEL REINFORCING SCHEDULE				
MARK	OPENING WIDTH	'H'	TOP REINF.	BOTTOM REINF.
ML-1	UP TO 6'-0"	1'-4"	2 - #4	



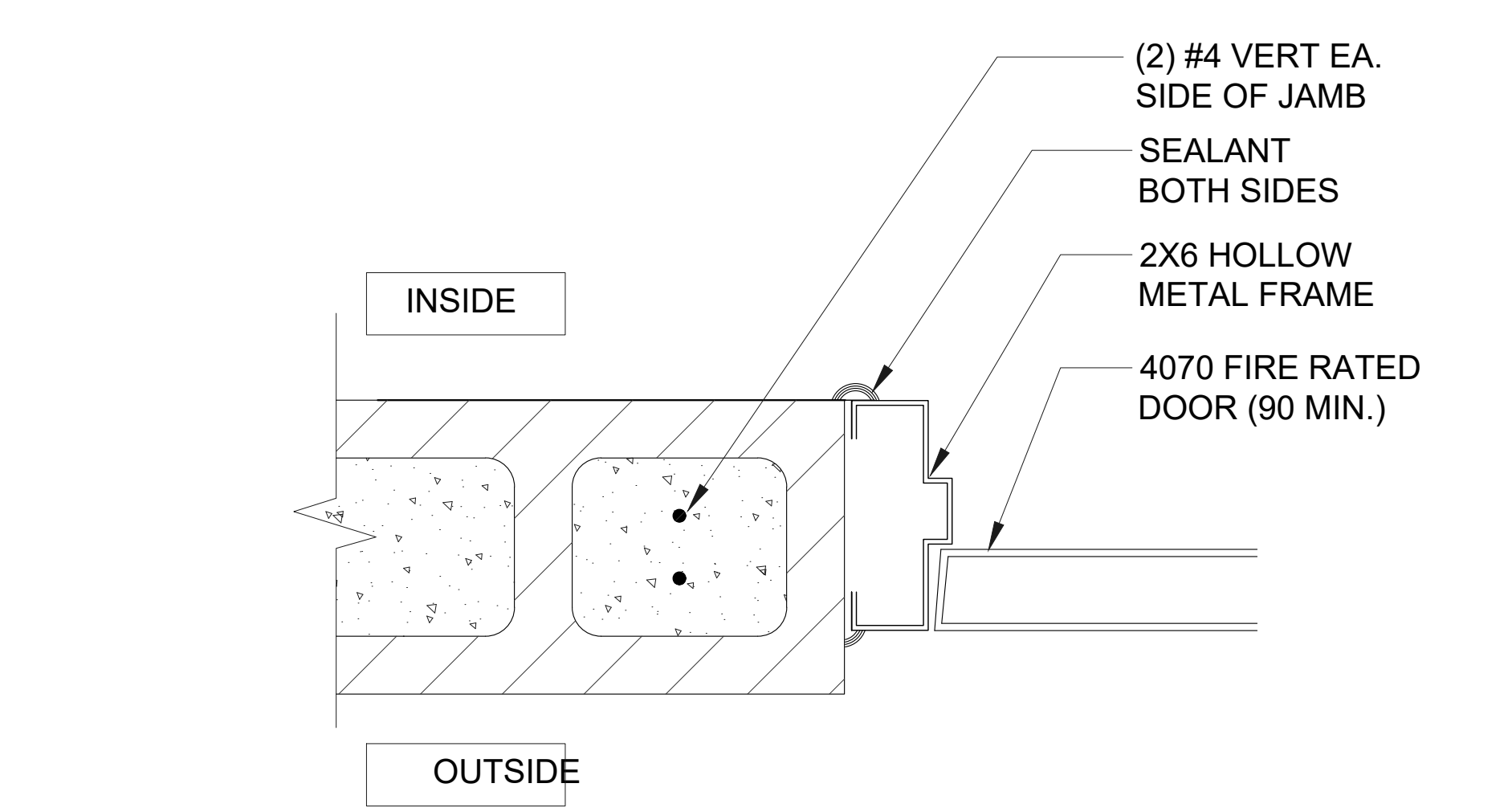
1 ROOF FRAMING PLAN

SCALE: 3/8"=1'-0"




3 DOOR HEADER DETAIL

SCALE: 1 1/2"=1'-0"




2 DOOR JAMB DETAIL

SCALE: 1 1/2"=1'-0"




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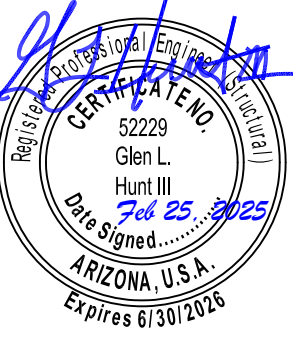
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DW TOWER - SKY HI
SKY-HI DOMESTIC WATER IMPROVEMENT DISTRICT
EQUIPMENT SHELTER
ROOF FRAMING PLAN

112 N AZTEC CIRCLE, PINETOP, AZ 85935
LATITUDE: 34° 20' 12.69" N. LONGITUDE: 110° 47' 57.24" W



Professional Engineer
Glen L. Hunt III
License No. 22229
Signed Feb 25, 2025
Arizona, U.S.A.
Expires 6/30/2025

PROGRESS LOG

02/25/25	ISSUED TO CLIENT	CK

SHEET NUMBER

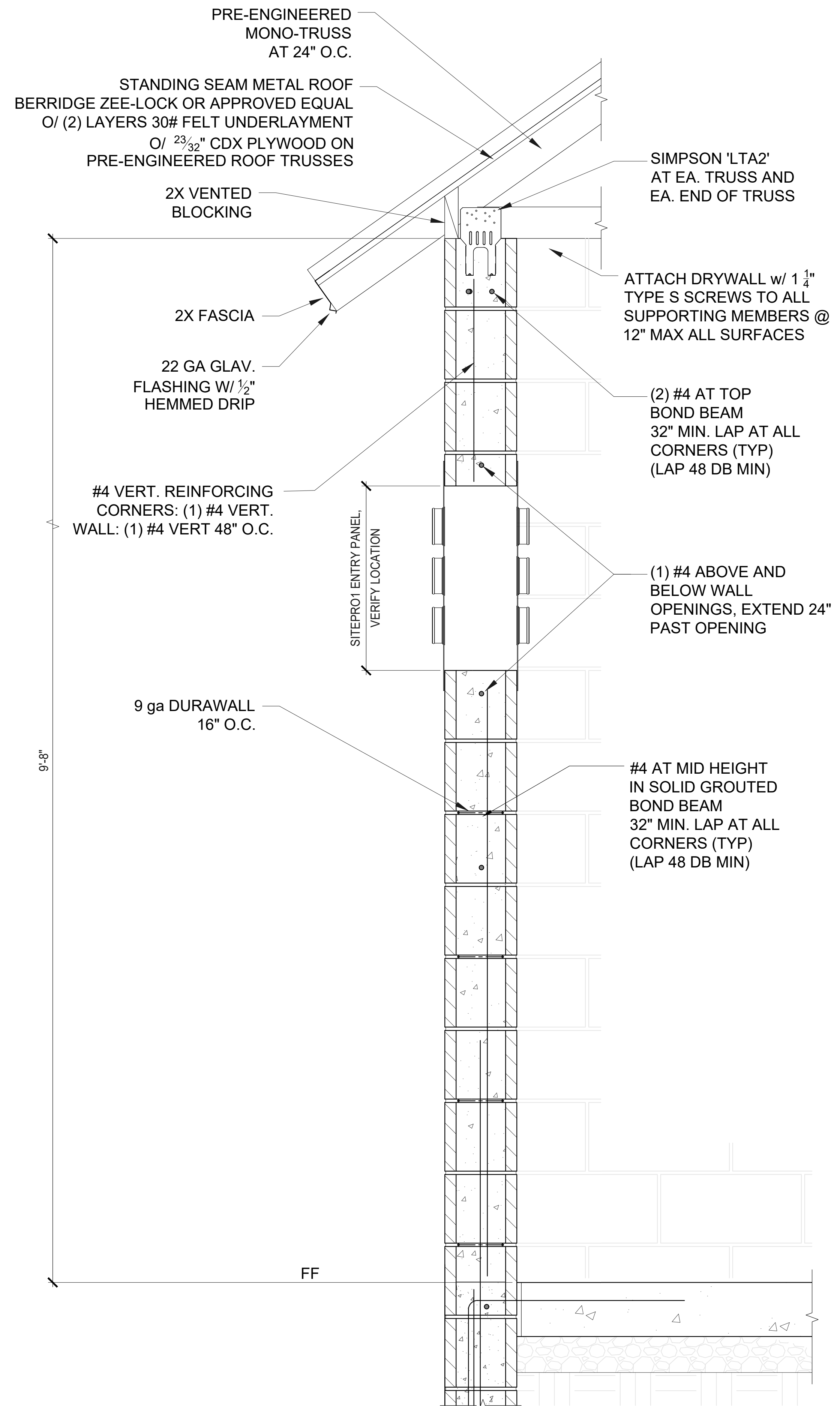
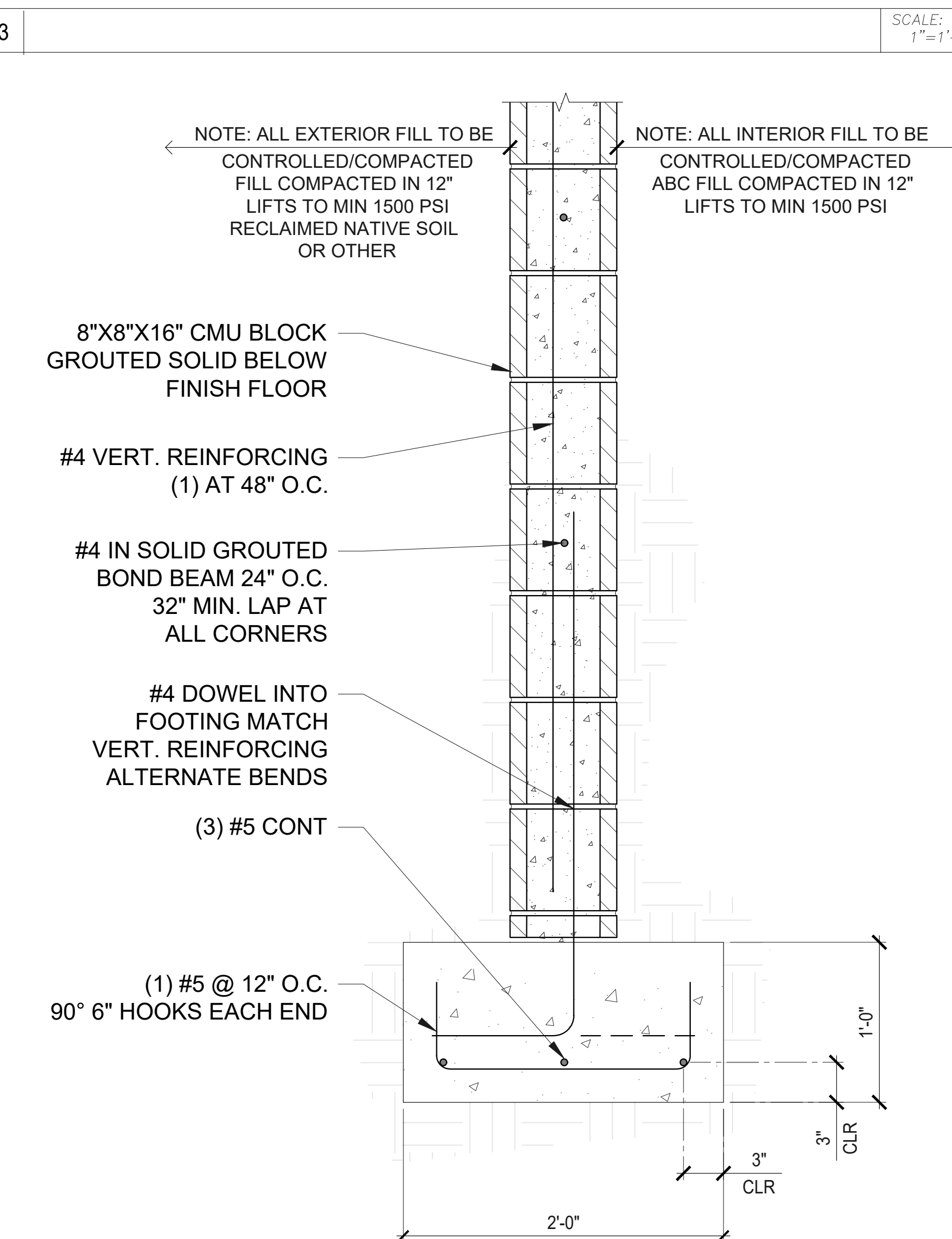
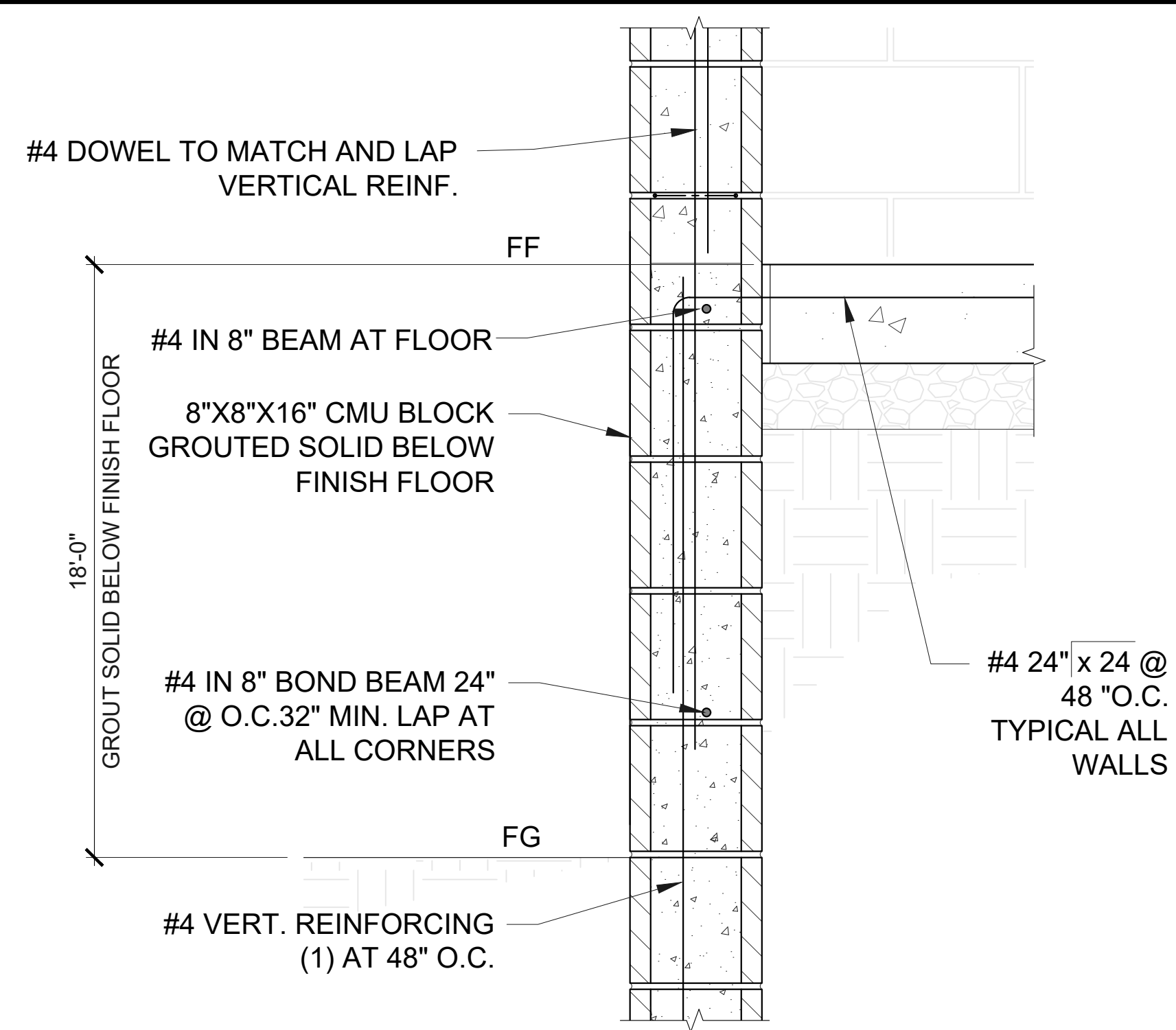
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PROGRESS

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DRAWING DATE

February 25, 2025



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SE JOB #: 19952

DW TOWER - SKY HI
SKY-HI DOMESTIC WATER IMPROVEMENT DISTRICT
EQUIPMENT SHELTER
BUILDING & SIDE WALL SECTIONS

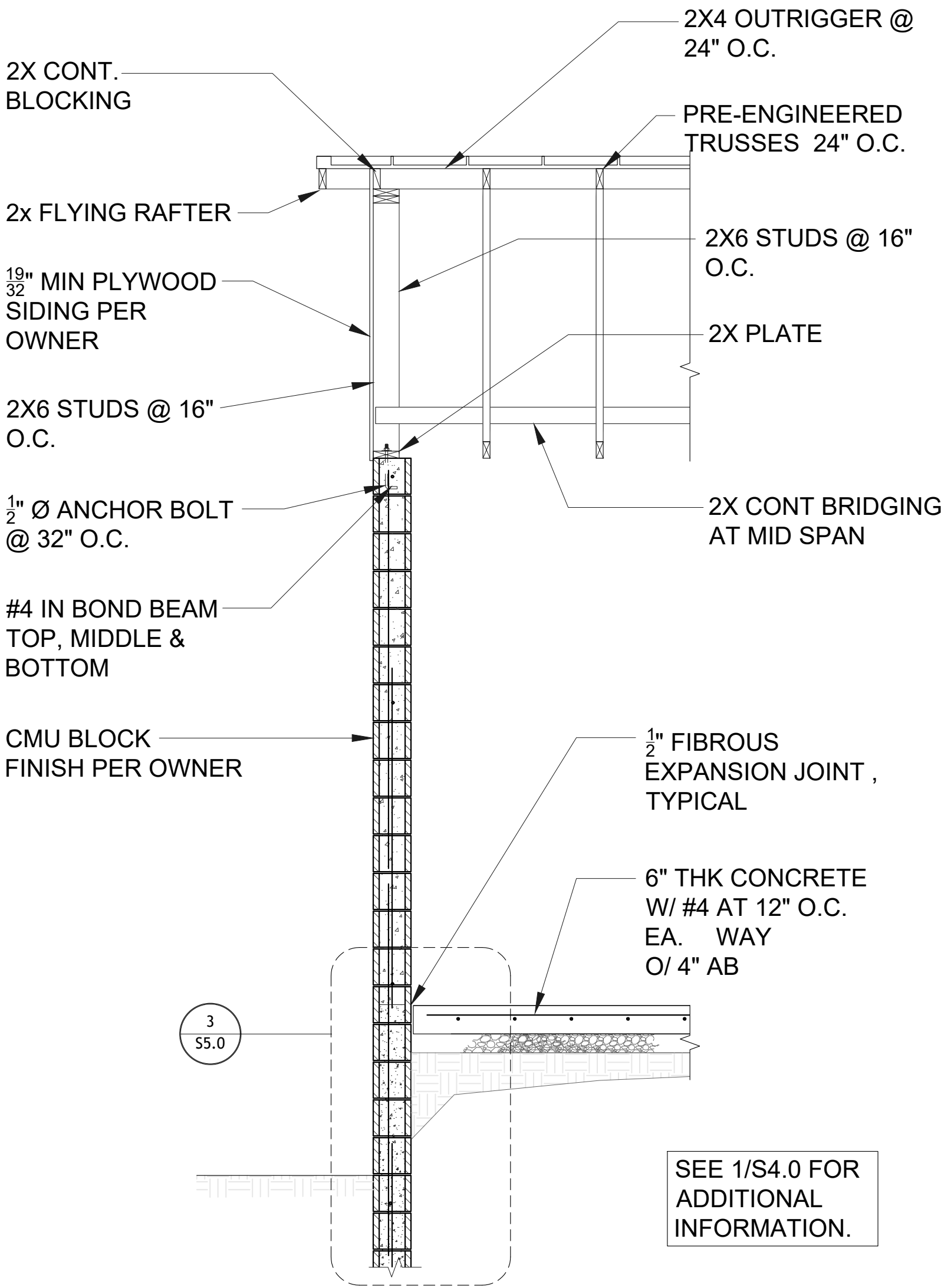
LATITUDE: 34° 20' 12.69" N, LONGITUDE: 110° 47' 57.24" W



PROGRESS LOG			
02/25/25	ISSUED TO CLIENT		CK

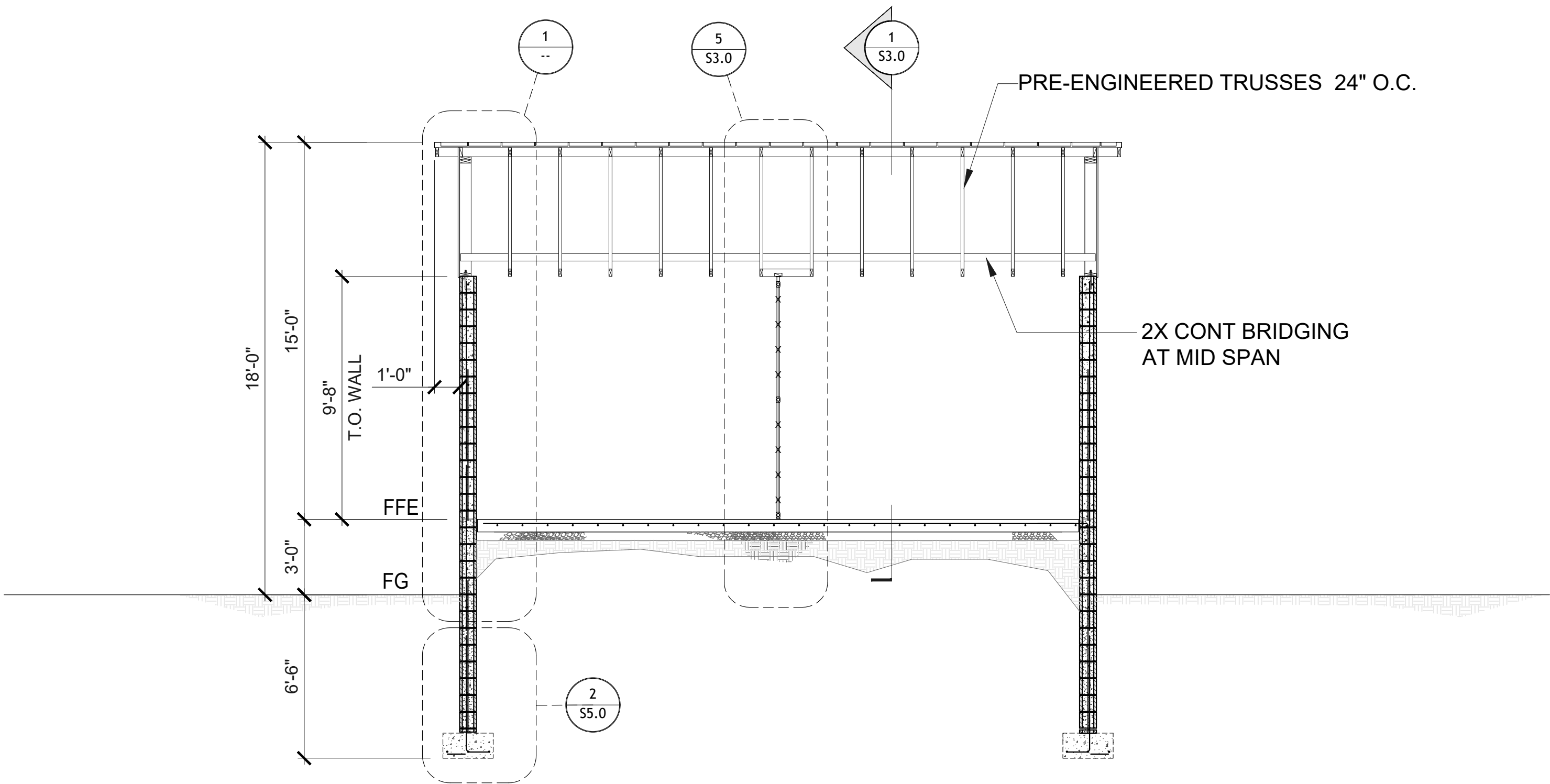
SHEET NUMBER	PROGRESS
S5.0	0

DRAWING DATE
February 25, 2025



1 WALL SECTION AT END WALL

SCALE:
1/2"=1'-0"



2 BUILDING SECTION - LOOKING AT BACK WALL

SCALE:
3/8"=1'-0"



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ISE JOB #: 19952

DW TOWER - SKY HI
SKY-HI DOMESTIC WATER IMPROVEMENT DISTRICT
EQUIPMENT SHELTER
BUILDING & END WALL SECTIONS

112 N AZTEC CIRCLE, PINETOP, AZ 85935
LATITUDE: 34° 20' 12.69" N. LONGITUDE: 110° 47' 57.24" W



PROGRESS LOG

0	02/25/25	ISSUED TO CLIENT

CK

SHEET NUMBER

S6.0

PROGRESS

0

DRAWING DATE

February 25, 2025

ELECTRICAL SPECIFICATIONS

- 1 SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
- 2 CONTRACTOR SHALL PERFORM ALL VERIFICATION OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- 3 HEIGHTS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
- 4 THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
- 5 EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, J-BOX, SWITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.)
- 6 CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- 7 ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA & NBFU.
- 8 CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY AND LOCAL CODES AND O.S.H.A.
- 9 CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS
- 10 COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- 11 ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE.
- 12 PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
- 13 ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
- 14 USE T-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR FOR LIGHTING FIXTURE.
- 15 ALL CONDUCTORS SHALL BE COPPER.
- 16 ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
- 17 THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES AND DRAWINGS.
- 18 PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
- 19 IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.
- 20 LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.
- 21 PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH SECTION NO. 4305 AND NO. 4304 OF THE U.B.C.
- 22 RECEPTACLES SHALL BE 20 AMPERE, 125 VOLT A.C., WHITE AS REQUIRED BY THE ARCHITECT OR APPROVED EQUAL.
- 23 WALL SWITCHES SHALL BE SINGLE-POLE, HUBBELL #1201 OR EQUIVALENT, WHITE AS REQUIRED BY THE ARCHITECT.
- 24 PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS, SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS. WEATHERPROOF RECEPTACLES SHALL HAVE RACO #860, 1/2" RAISED WORK COVERS.
- 25 WIRE AND CABLE CONDUCTORS SHALL BE COPPER #12 AND MINIMUM, NO BX OR NONMETALLIC SHEATHED (NM) CABLE IS PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS.
- 26 GROUNDING CONDUCTORS SHALL BE SOLID TINNED COPPER AND ANNEALED #2.
- 27 GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG, COPPERWELDED OR APPROVED EQUAL.
- 28 METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE AS NOTED ON THE DRAWINGS. MANUFACTURED BY SQUARE D COMPANY OR APPROVED EQUAL.
- 29 ALL MATERIALS SHALL BE U.L. LISTED.
- 30 CONDUIT:
- a. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
- b. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
- c. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE, SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
- d. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE.
- 31 ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.
- 32 UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
- 33 CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS TO BE PAID BY CONTRACTOR.

GENERAL ELECTRICAL NOTES

1. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC, NOT INDICATING THE EXACT ROUTING REQUIRED. THE CONTRACTOR SHALL ROUTE CONDUITS AS REQUIRED BY THE CONDITIONS OF INSTALLATION.
2. ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE NEW, LISTED, AND LABELED BY A NATIONALLY-RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, FOR THE CONDITIONS OF INSTALLATION.
3. DEVICE LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. EXACT DEVICE LOCATIONS SHALL BE AS INDICATED ON THE ARCHITECTURAL PLANS OR AS DIMENSIONED. IF NOT SHOWN ON THE ARCHITECTURAL PLANS OR DIMENSIONED ON THE ELECTRICAL PLANS, VERIFY EXACT LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN.
4. ALL WIRE COUNTS ARE TYPICALLY NOT SHOWN BETWEEN LIGHT FIXTURES OR RECEPTACLES. PROVIDE ALL REQUIRED EVEN WHERE NOT SHOWN.
5. WHERE SIZE IS NOT SHOWN ON THE DRAWINGS, CIRCUITS SHALL CONSIST OF #12 PHASE AND GROUND (NEUTRAL CONDUCTORS) AND A #12 CU GROUND IN 3/4" CONDUIT. MC CABLE SHALL BE ACCEPTABLE IN WALLS. ALL BRANCH CIRCUIT HOME-RUNS SHALL BE IN CONDUIT.
6. UNLESS SPECIFICALLY NOTED OTHERWISE, THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL UTILIZATION EQUIPMENT SHOWN ON THE DRAWINGS. VERIFY THE TYPE OF FINAL CONNECTION AND PROVIDE APPROPRIATE WIRING METHOD.
7. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL, PLUMBING AND GENERAL CONTRACTORS, PRIOR TO ORDERING OR INSTALLATION OF ANY EQUIPMENT, MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS ARE PROVIDED IN THE ELECTRICAL DESIGN. THE CONTRACTOR WILL NOT BE COMPENSATED FOR COSTS ASSOCIATED WITH CHANGING THE ELECTRICAL SYSTEMS TO MATCH UTILIZATION EQUIPMENT, EVEN IF THE ELECTRICAL WORK IS INSTALLED PER THE ELECTRICAL DRAWINGS.
8. INSULATION & WIRE TYPES SHALL BE AS FOLLOWED: PANEL FEEDERS - XHHW COPPER, WIRING ABOVE GRADE - THHN COPPER, WIRING BELOW GRADE - THWN COPPER, UNLESS NOTED OTHERWISE.
9. SOME CONDUCTOR SIZES ARE BASED ON THE USE OF 75 DEGREE C CONDUCTOR RATINGS. THE CONTRACTOR SHALL VERIFY, PRIOR TO INSTALLATION OF CONDUCTORS OR CONDUIT FEEDING ANY EQUIPMENT, THAT ALL ELECTRICAL EQUIPMENT IS RATED FOR USE WITH 75 DEGREE C WIRING. IF ANY EQUIPMENT IS RATED FOR USE WITH LESS THAN 75 DEGREE C CONDUCTORS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR EVALUATION/CORRECTION.
10. UNLESS SPECIFICALLY NOTED OTHERWISE, SYSTEMS PROVIDED OR INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE COMPLETE AND FULLY-FUNCTIONING AFTER INSTALLATION. COMPONENTS NOT SHOWN, BUT REQUIRED FOR THE PROPER OPERATION OF THE EQUIPMENT OR SYSTEM, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE PROJECT.
11. THE CONTRACTOR SHALL PERFORM ALL ACCEPTANCE TESTS REQUIRED OR RECOMMENDED BY EQUIPMENT MANUFACTURERS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SEVEN (7) DAYS PRIOR TO TESTING AND SHALL ALLOW OBSERVATION OF THE TESTING BY THE ENGINEER.
12. ALL RECEPTACLES INSTALLED WITHIN 6 FEET OF A SINK SHALL BE GFI PROTECTED.
13. UNLESS OTHERWISE NOTED, ALL EQUIPMENT DISCONNECTS SHALL BE NEMA TYPE 3R, FUSIBLE, 30A, 3 POLE, FUSE PER EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
14. ALL PENETRATIONS IN WALLS SHALL BE SEALED WITH FLEXIBLE ACOUSTIC CAULKING. CAULKING SHALL BE APPLIED AROUND OUTLET BOXES TO PROVIDE A COMPLETE SEAL BETWEEN THE BOX AND THE WALL.
15. PRIOR TO TRENCHING IN ANY AREA, THE CONTRACTOR SHALL CONTACT ELECTRICAL, COMMUNICATIONS/DATA, CABLE TV, GAS, AND WATER UTILITY PROVIDERS (BLUE STAKE) AND HAVE ALL UTILITIES IN THE AREA LOCATED. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A SUBCONTRACTOR SPECIALIZING IN THE LOCATION OF UNDERGROUND STRUCTURES TO IDENTIFY ANY OBSTACLES IN THE PATH OF TRENCHING (PRIOR TO COMMENCING WORK). DAMAGE TO ANY UNDERGROUND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
16. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL AND STATE CODES INCLUDING THE NEC.
17. OVER CURRENT DEVICES SHALL BE LOCATED WHERE THEY WILL NOT BE EXPOSED TO PHYSICAL DAMAGE.
18. HOMERUNS SHALL NOT BE GANGED TOGETHER UNLESS SHOWN GANGED.
19. CONTRACTOR SHALL CONTACT ENGINEER IN WRITING (RFI) PRIOR TO PROCEEDING WITH ANY WORK NOT CLEARLY SHOWN ON THESE CONTRACT DOCUMENTS. ENGINEER WILL NOT ACCEPT ANY RESPONSIBILITY FOR WORK HE HAS NOT EXPLICITLY AUTHORIZED.
20. PROVIDE IDENTIFICATION AT THE DISTRIBUTION PANEL FOR BRANCH CIRCUITS THAT FEED EMERGENCY LIGHTING UNIT EQUIPMENT.
21. ELECTRICAL EQUIPMENT THAT IS LIKELY TO REQUIRE MAINTENANCE WHILE ENERGIZED SHALL BE PROPERLY MARKED TO WARN PERSONNEL OF ARC FLASH HAZARD.
22. PROVIDE A #18 OR LARGER COPPER TRACER WIRE SECURELY ATTACHED TO THE NON-METALLIC CABLE, PIPE OR CONDUIT AT 8'-0" ON CENTER. IT SHALL HAVE A 12" OF TRACER WIRE ACCESSIBLE ABOVE GRADE AT ANY ABOVE GRADE TERMINATION PER ARIZONA STATE STATUTE.
23. UTILITY COORDINATION
- a. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF DRAWINGS TO ELECTRICAL AND TELCO UTILITIES AS REQUIRED FOR DESIGN.
- b. THE CONTRACTOR SHALL NOT TRENCH OR INSTALL CONDUITS (ON THE UTILITY OR LOAD SIDE) TO THE SES OR TO THE UTILITY TRANSFORMER (PRIMARY OR SECONDARY), OR TO THE UTILITY CONNECTION POINT BEFORE RECEIVING A FINAL DESIGN FROM THE UTILITY.
- c. THE CONTRACTOR SHALL NOT INSTALL EQUIPMENT PADS FOR THE SES OR ANY UTILITY EQUIPMENT (TRANSFORMERS, SWITCHING CABINETS, ETC) PRIOR TO RECEIPT OF FINAL PLANS FROM THE UTILITY.
- d. THE CONTRACTOR SHALL NOT BE COMPENSATED FOR ADDITIONAL WORK REQUIRED TO MEET THE REQUIREMENTS OF THE UTILITY WHICH IS THE RESULT OF PROCEEDING PRIOR TO RECEIPT OF A FINAL UTILITY DESIGN.
24. SERIES RATING NOTES:
- A. WHERE A CIRCUIT BREAKER IS USED ON A CIRCUIT HAVING AN AVAILABLE FAULT CURRENT HIGHER THAN THE MARKED INTERRUPTING RATING BY BEING CONNECTED ON THE LOAD SIDE OF AN ACCEPTABLE OVERCURRENT PROTECTIVE DEVICE HAVING A HIGHER RATING, THE CIRCUIT BREAKER SHALL MEET THE REQUIREMENTS SPECIFIED IN (1) AND (2).
- (1). TESTED COMBINATIONS. THE COMBINATION OF LINE-SIDE OVERCURRENT DEVICE AND LOAD-SIDE CIRCUIT BREAKER(S) IS TESTED AND MARKED ON THE END USE EQUIPMENT, SUCH AS SWITCHBOARDS AND PANELBOARDS.
- (2). MOTOR CONTRIBUTION. SERIES RATINGS SHALL NOT BE USED WHERE
- a. MOTORS ARE CONNECTED ON THE LOAD SIDE OF THE HIGHER-RATED OVERCURRENT DEVICE AND ON THE LINE SIDE OF THE LOWER-RATED OVERCURRENT DEVICE, AND
- b. THE SUM OF THE MOTOR FULL-LOAD CURRENTS EXCEEDS 1 PERCENT OF THE INTERRUPTING RATING OF THE LOWER-RATED CIRCUIT BREAKER.
- B. WHERE CIRCUIT BREAKERS OR FUSES ARE APPLIED IN COMPLIANCE WITH THE SERIES COMBINATION RATINGS MARKED ON THE EQUIPMENT BY THE MANUFACTURER, THE EQUIPMENT ENCLOSURE(S) SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE THE EQUIPMENT HAS BEEN APPLIED WITH A SERIES COMBINATION RATING. THE MARKING SHALL BE READILY VISIBLE AND STATE THE FOLLOWING:
- CAUTION - SERIES COMBINATION SYSTEM RATED IDENTIFIED REPLACEMENT COMPONENTS REQUIRED
- C. TESTED COMBINATIONS. THE COMBINATION OF THE LINE-SIDE OVERCURRENT DEVICE AND LOAD SIDE CIRCUIT BREAKER(S) IS TESTED AND MARKED ON THE END USE EQUIPMENT, SUCH AS SWITCHBOARDS AND PANELBOARDS.
- D. FOR SERIES RATING COMBINATION, MANUFACTURER OF PANELBOARDS AND SWITCHBOARDS AND ASSOCIATED DEVICES SHALL BE OF SAME MANUFACTURER AS THE UPSTREAM EQUIPMENT/DEVICE.
25. GENERATOR NAMEPLATES NOTE:
- A. CONTRACTOR TO INSTALL A NAMEPLATE AT THE S.E.S. FOR THE GENERATOR PER 2020 NEC ARTICLE 702.

SYMBOL LIST

(NOT ALL MAY BE USED)

ELECTRICAL SYMBOLS

- FLUORESCENT STRIP FIXTURE, LENGTH PER PLAN.
- SURFACE WALL-MOUNTED LIGHT FIXTURE.
- SOLID "BOX" ON ANY FIXTURE INDICATES A FIXTURE WITH AN INTEGRAL EMERGENCY POWER SUPPLY, PER THE SPECIFICATIONS.
- POLE-MOUNTED LIGHT FIXTURE.
- SINGLE POLE TOGGLE SWITCH
- PHOTOCELL , MOUNTED ON ROOF UNLESS NOTED OTHERWISE.
- DUPLEX CONVENIENCE RECEPTACLE
- "CROSS SLASH" ON ANY RECEPTACLE INDICATES INTEGRAL GROUND FAULT PROTECTION.
- DOUBLE DUPLEX (FOURPLEX) CONVENIENCE RECEPTACLE
- JUNCTION BOX. "C" INDICATES CEILING MOUNTED. "F" INDICATES FLOOR MOUNTED (SUBSCRIPTS ARE TYPICAL FOR ALL DEVICES)
- VOICE OUTLET
- DATA OUTLET
- COMBINATION TELEPHONE AND DATA OUTLET IN THE SAME BOX
- HORSEPOWER RATED MANUAL MOTOR SWITCH
- FUSIBLE DISCONNECT SWITCH FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE. SIZE AND FUSES AS PER RECOMMENDATIONS OF EQUIPMENT'S MANUFACTURER OR AS NOTED. (N INDICATES NON-FUSED).
- ELECTRICAL MOTOR. SEE DRAWINGS FOR SIZE.
- DISTRIBUTION PANELBOARD, MOTOR CONTROL CENTER OR SERVICE ENTRANCE SECTION. SEE DRAWINGS FOR EXACT TYPE.
- DISTRIBUTION TRANSFORMER
- SURFACE MOUNTED PANEL BOARD.
- FLUSH MOUNTED PANEL BOARD.
- TELEPHONE MOUNTING BOARD.
- TEST WELL/GROUND ROD
- GROUND ROD - 5/8" x 10' COPPER CLAD
- CAPWELD CONNECTION
- MECHANICAL CONNECTION
- GROUNDING WIRE
- GROUND BAR
- SURGE SUPPRESSOR GROUND BAR
- METER AND MAIN BREAKER
- MANUAL XFR SWITCH AND GEN. RECP.
- GPS ANTENNA
- ELECTRICAL POWER
- T-1 LINE
- FLEXIBLE CONDUIT
- CONDUIT CONCEALED IN WALLS OR ABOVE CEILING W/ 2 #12, #12 GND, 3/4" C., UNLESS NOTED OTHERWISE.
- CONDUIT ROUTED UNDER FLOOR OR BELOW GRADE W/ 2 #12, #12 GRD., 3/4" C., UNLESS NOTED OTHERWISE.
- CONDUIT TURNING UP.
- CONDUIT TURNING DOWN.

WIRE AND CONDUIT

- 1-LINE DIAGRAM
- CIRCUIT BREAKER, FIXED MOUNTED.
- CIRCUIT BREAKER, DRAWOUT MOUNTING.
- FUSIBLE SWITCH. SIZE AS INDICATED ON DRAWINGS.
- TRANSFORMER. SEE ONE-LINE FOR TYPE AND SPECIFICATION.
- CURRENT TRANSFORMER
- METERING DEVICE
- PANELBOARD, MAIN LUG ONLY
- PANELBOARD, MAIN CIRCUIT BREAKER
- TRANSFER SWITCH - MANUAL OR AUTOMATIC
- INDICATES A FEED-THROUGH LUG CONNECTION
- UNINTERRUPTIBLE POWER SUPPLY
- GENERATOR WITH INTEGRAL PROTECTION

SHEET INDEX

E1	GENERAL NOTES / LEGENDS / SHEET INDEX
E2	SITE POWER PLAN
E3	ONE-LINE / CALCS
E4	GROUNDING PLAN
E4.1	GROUNDING DETAILS

ABBREVIATIONS

C.O.	= CONDUIT ONLY
PVC.	= SCHEDULE 40 PLASTIC CONDUIT
GR.	= GALVANIZED RIGID CONDUIT
MTD.	= MOUNTED
W.P.	= WEATHERPROOF
U.O.N.	= UNLESS OTHERWISE NOTED
G. OR GRD.	= GROUND
N. OR NEUT.	= NEUTRAL
A. OR AMP.	= AMPERE
KW.	= KILOWATTS
W.	= WATTS
~	= PHASE
DIA	= DIAMETER
H.P. OR HP	= HORSEPOWER
XFMR	= TRANSFORMER
C.B.	= CIRCUIT BREAKER
CKT.	= CIRCUIT
SW.	= SWITCH
MTS	= MANUAL TRANSFORMER SWITCH
F.A.	= FIRE ALARM
RECP.T.	= RECEPTACLE
E.C.	= ELECTRIC CONTRACTOR
G.C.	= GENERAL CONTRACTOR
1P, 2P, & 3P	= SINGLE POLE, TWO POLE, & THREE POLE
EGB	= EQUIPMENT GROUND BUS
AGB	= MAIN GROUND BUS
AFC	= AVAILABLE FAULT CURRENT
AWG	= AMERICAN WIRE GAUGE
BTGW	= BARE TINNED COPPER WIRE
GPS	= GLOBAL POSITIONING SYSTEM
PPC	= POWER PROTECTION CABINET
TPP	= TYPICAL
RGS	= RIGID GALVANIZED STEEL
EMT	= ELECTRICAL METALLIC TUBING
DWG	= DRAWING
BTS	= BASE TRANSMISSION SYSTEM
GEN	= GENERATOR
BSCW	= BARE STRANDED COPPER WIRE
ISCW	= INSULATED STRANDED COPPER WIRE

CODE INFORMATION:

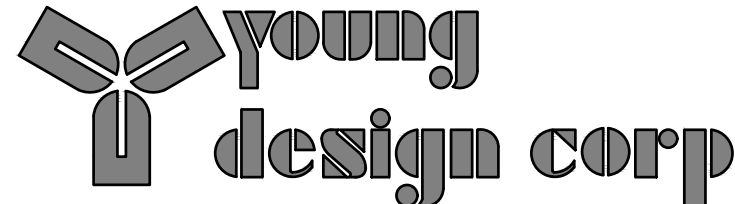
2017 NEC, 2018 IECC. ALL SYSTEM SHALL BE IN COMPLIANCE WITH ABOVE CODES AS ADOPTED BY THE CITY OF PINETOP, ARIZONA.

CLIENT



CARRIER

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NO.	DATE	DESCRIPTION
0	2/6/2025	FINAL CD'S

ARCHITECTS JOB NO.

YDC - 11240

PROJECT INFORMATION

SKY HI

112 N. AZTEC CIRCLE
PINETOP, AZ 85935

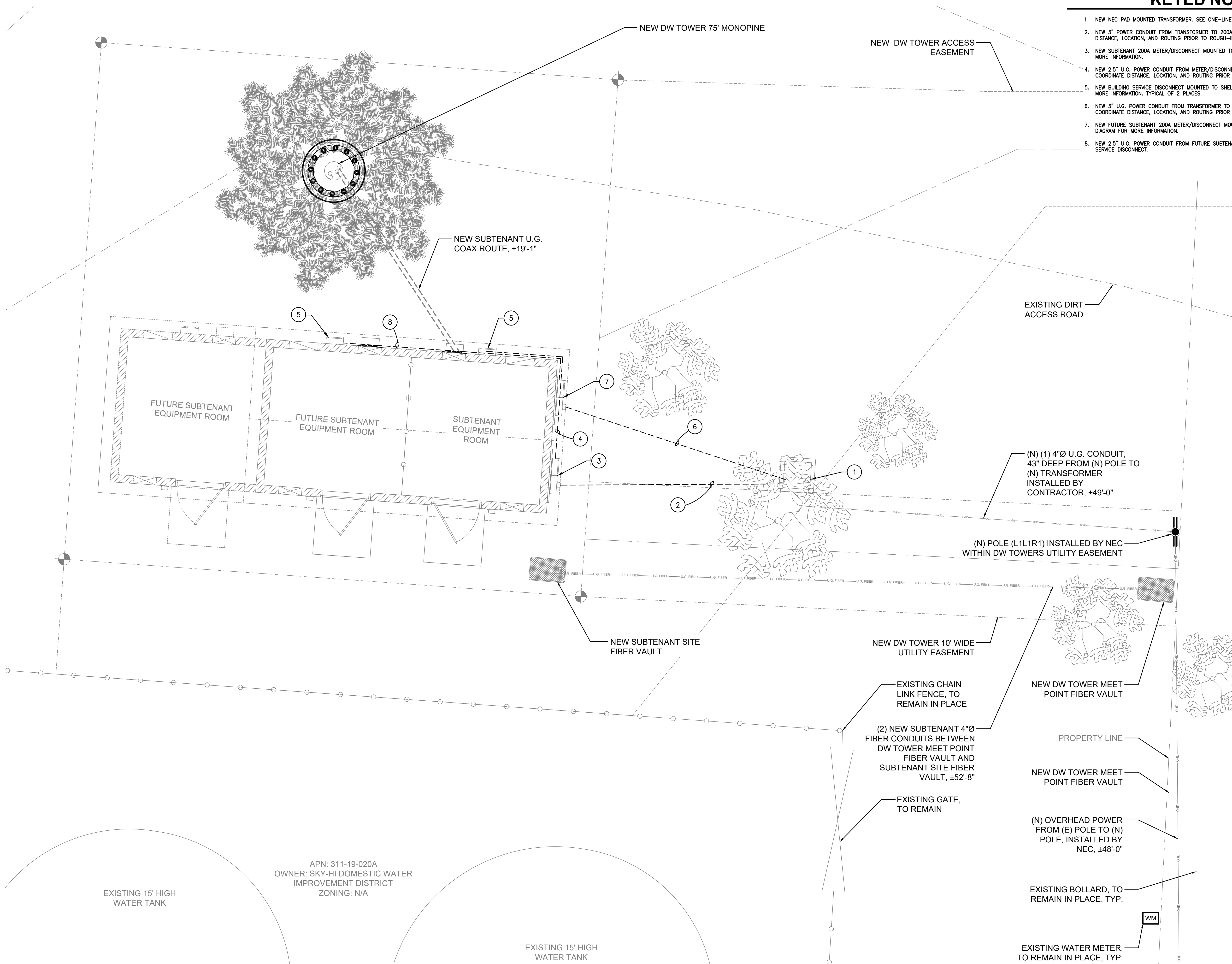
SHEET TITLE

GENERAL NOTES /
LEGENDS / SHEET INDEX

JURISDICTION APPROVAL

SHEET NUMBER

E-1



KEYED NOTES ⓘ

- 1. NEW NEC PAD MOUNTED TRANSFORMER. SEE ONE-LINE DIAGRAM FOR MORE INFORMATION.
- 2. NEW 3" POWER CONDUIT FROM TRANSFORMER TO 200A METER/DISCONNECT. COORDINATE DISTANCE, LOCATION, AND ROUTING PRIOR TO ROUGH-IN.
- 3. NEW SUBTENANT 200A METER/DISCONNECT MOUNTED TO WALL. SEE ONE-LINE DIAGRAM FOR MORE INFORMATION.
- 4. NEW 2.5" U.G. POWER CONDUIT FROM METER/DISCONNECT TO BUILDING SERVICE DISCONNECT. COORDINATE DISTANCE, LOCATION, AND ROUTING PRIOR TO ROUGH-IN.
- 5. NEW BUILDING SERVICE DISCONNECT MOUNTED TO SHELTER WALL. SEE ONE-LINE DIAGRAM FOR MORE INFORMATION. TYPICAL OF 2 PLACES.
- 6. NEW 3" U.G. POWER CONDUIT FROM TRANSFORMER TO FUTURE SUBTENANT METER/DISCONNECT. COORDINATE DISTANCE, LOCATION, AND ROUTING PRIOR TO ROUGH-IN.
- 7. NEW FUTURE SUBTENANT 200A METER/DISCONNECT MOUNTED TO SHELTER WALL. SEE ONE-LINE DIAGRAM FOR MORE INFORMATION.
- 8. NEW 2.5" U.G. POWER CONDUIT FROM FUTURE SUBTENANT 200A METER/DISCONNECT TO BUILDING SERVICE DISCONNECT.

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PINETOP, AZ 85935

SHEET TITLE

SITE POWER PLAN

JURISDICTION APPROVAL

SHEET NUMBER

E-2

EXISTING 15' HIGH WATER TANK

APN: 311-19-020A
OWNER: SKY-HI DOMESTIC WATER IMPROVEMENT DISTRICT
ZONING: N/A

EXISTING 15' HIGH WATER TANK

SITE POWER PLAN
1/4"=1'-0"

Power Company _NEC

Submit drawings to Utility Company representative as required in the General Notes included in the Electrical Drawings.

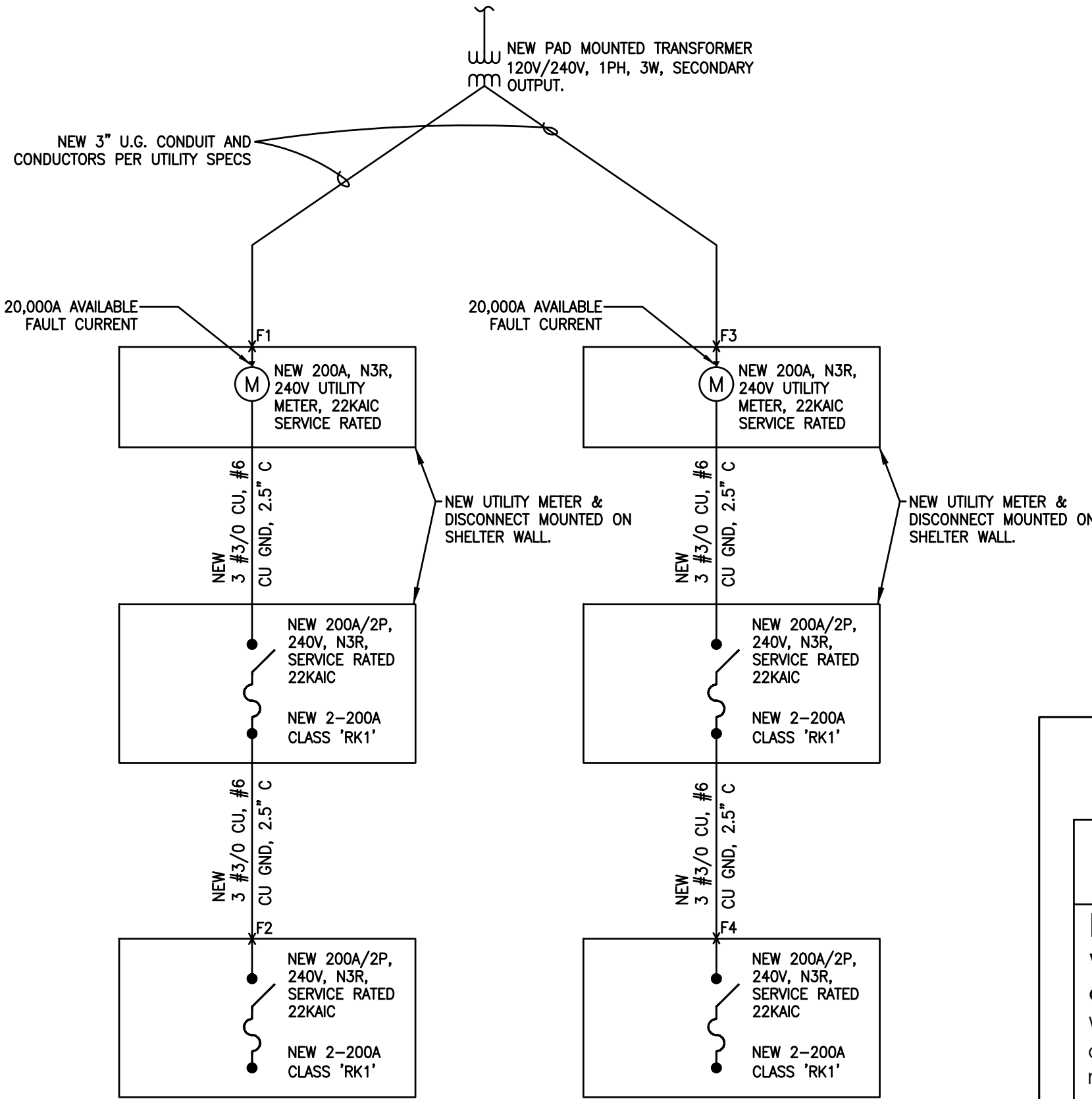


Know what's below.
Call before you dig.

NOTE:
ALL WIRES SHALL BE COPPER THWN WIRE
OR XHHW UNLESS NOTED OTHERWISE.

NOTE:
PRIOR TO RUNNING CONDUIT ROUTE -- CONTRACTOR
SHALL CONTACT THE SUN-STATE PROJECT MANAGER
AND VERIFY THE EQUIPMENT CABINET LAYOUT
CONFIGURATION AND ROUTE CONDUITS ACCORDINGLY.

NOTE:
PRE-CONSTRUCTION MEETING AND
ELECTRICAL EASEMENT REQUIRED.



ONE-LINE DIAGRAM
N.T.S.

PROVIDE APPROVED ARC-FLASH HAZARD WARNING ON ALL REQUIRED ELECTRICAL EQUIPMENT PER NEC 110.16

⚠ WARNING

Electric Arc Flash Hazard
Will cause severe injury or death

Wear proper protective equipment before opening or performing diagnostic measurements while energized. (See NFPA 70E)

ELECTRICAL CONTRACTOR SHALL PROVIDE LABELING OF THE AVAILABLE FAULT CURRENT FOR EACH PANEL AS NOTED, PER NEC 110.24.

1-PHASE, LINE-TO-LINE SHORT CIRCUIT CALCULATIONS BASED ON THE "POINT-BY-POINT" METHOD

$I_{sca} = I_{sc} \times M$	$M = 1/(1 + f)$	Cable: $f = 2 \times L \times I / C \times E$	$X_{fmr} = f \times I_p \times V_p \times \%Z / 100000 \times KVA$
		$I_s (sca) = V_p / V_s \times M \times I_s$	
where:			
I_{sc} =	the available short-circuit current, in amperes, at the beginning of the circuit.	I_p =	primary current, in amperes.
L =	the length of circuit to the fault, in feet.	V_p =	primary line-to-line voltage of transformer, in volts.
C =	the constant from Table C for the type of conductors and circuit arrangement.	V_s =	secondary line-to-line voltage of transformer, in volts.
For parallel runs, multiply "C" value by the number of conductors per phase.		$\%Z$ =	impedance of transformer.
E =	Line-to-line voltage or Line-to-ground voltage, where applicable.	* Use row 'ca' for feeder cables; and row 'xf' for transformers.	

Fault Point		Description	Source Isc (amps)	Wire / Cable Size	No. of cond per phase	Type of conduit	"C" value	E (volts)	L (length) in feet	XFMR KVA	XFMR %Z	Vp (volts)	Vs (volts)	f	M	I sca (amps)
F1	ca	SERVICE ENTRANCE #1	20000.00											0.00	1.00	20000.00
	xf	(PER UTILITY SPECS)												0.00	1.00	0.00
F2	ca	BUILDING SERVICE DISCONNECT #1	20000.00	#3/0 CU	1	NON-MA	13923	240	15					0.18	0.85	16955.49
	xf	(PER UTILITY SPECS)												0.00	1.00	0.00
F3	ca	SERVICE ENTRANCE #2	20000.00											0.00	1.00	20000.00
	xf	(PER UTILITY SPECS)												0.00	1.00	0.00
F4	ca	BUILDING SERVICE DISCONNECT #2	20000.00	#3/0 CU	1	NON-MA	13923	240	20					0.24	0.81	16136.68
	xf	(PER UTILITY SPECS)												0.00	1.00	0.00

Note: The above calculations neglected motor short-circuit contributions. If significant, motor short-circuit contribution may be added to the transformer secondary short-circuit current value. A practical estimate of motor contribution is to multiply the total motor load in amperes by 4. Lengths are for calculations only. DO NOT USE for cost estimating or take-off purposes.

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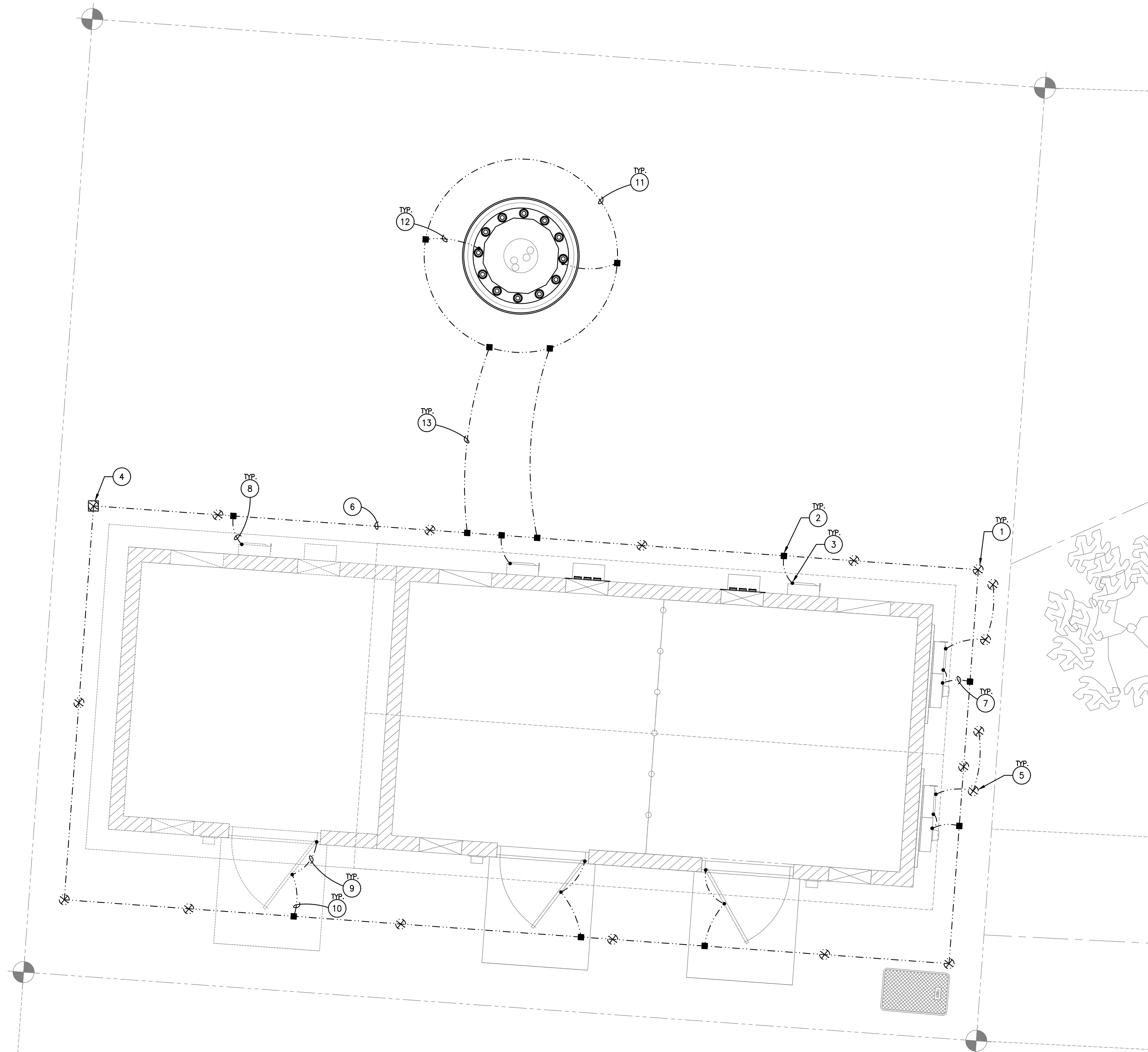
SKY HI

112 N. AZTEC CIRCLE
PINETOP, AZ 85935

SHEET TITLE
ONE-LINE / CALCS

JURISDICTION APPROVAL

SHEET NUMBER
E-3




GENERAL GROUNDING NOTES

- A. ALL GROUNDING LEADS INSTALLED TO ENSURE A SMOOTH PATH TO COUNTERPOISE WITHOUT KINKS OR SHARP BENDS OR RETURN UPWARDS.
- B. CONTRACTOR WILL UTILIZE THE "FALL OF POTENTIAL MEASUREMENT METHOD" PER NETA STANDARDS, UTILIZING THE AEMC-4500 MEASURING DEVICE OR APPROVED VERIZON EQUAL. ALL GROUND TESTING TO BE PERFORMED BEFORE CONNECTING TO POWER UTILITY GROUND AND PRIOR TO ANY BACKFILL OF GROUNDING TRENCHES. ELECTRICAL CONTRACTOR WILL PROVIDE A MINIMUM OF ONE (1) INSPECTION PORT FOR TESTING GROUNDING RESISTANCE. CONTRACTOR WILL INSTALL THE MINIMUM NUMBER OF GROUND RODS INDICATED, SEE GROUNDING PLAN FOR APPROX. LOCATIONS. CONTRACTOR WILL INSTALL ADDITIONAL GROUNDING AS REQUIRED TO ACHIEVE 5 OHMS OR LESS TO GROUND.
- C. IT IS THE INTENT THAT AT NO TIME ARE THE GROUND LEADS TO BE INSTALLED BELOW THE SURFACE OF THOSE AREAS DESIGNATED FOR FUTURE DISASSOCIATED PADS OR SHELTERS
- D. THE CONTRACTOR WILL DOCUMENT MEGGER TEST RESULTS, REDLINE THE DRAWINGS FOR THE LOCATION OF ALL UNDERGROUND GROUNDING COMPONENTS AND PHOTOGRAPH WITH A DIGITAL CAMERA THE ENTIRE NEWLY INSTALLED GROUNDING SYSTEM PRIOR TO BACKFILL OF ANY OPEN TRENCHES.
- E. ANY EXCEPTIONS TO THIS BASIC GROUNDING DESIGN GUIDELINE, ROUTING DESIGN, OR MODIFICATIONS, WILL BE DOCUMENTED AND DIMENSIONED BY WAY OF RED LINE DRAWINGS. IT IS THE RESPONSIBILITY OF THE SELECTED CONTRACTOR TO ENSURE THE NEWLY INSTALLED GROUNDING SYSTEM MEETS THE VERIZON STANDARD OF 5 OHMS OR LESS.
- F. CONTRACTOR TO VERIFY TOWER GROUND RING SIZE.

GROUNDING KEY NOTES #

- 1. COPPER GROUND ROD PLACED MINIMUM EVERY 10'. REFER TO DETAIL 3 ON SHEET E4.
- 2. CAD WELD CONNECTION TYPICAL.
- 3. MECHANICAL CONNECTION TYPICAL.
- 4. TEST WELL. REFER TO DETAIL 5 ON SHEET E-4.1.
- 5. ELECTRICAL SERVICE ENTRANCE SECTION GROUND RODS, REFER TO ONE-LINE ON E-3 SHEET FOR DETAILS. SERVICE GROUND RODS ARE SEPARATED FROM EQUIPMENT GROUND RODS. TYPICAL.
- 6. #2 SOLID TINNED BARE COPPER WIRE SITE GROUND RING BURIED MINIMUM 30" BELOW GRADE.
- 7. #2 SOLID TINNED BARE COPPER WIRE FROM METER/DISCONNECT TO TIE-INTO SITE GROUND RING. TYPICAL OF 2 PLACES.
- 8. #2 SOLID TINNED BARE COPPER WIRE FROM DISCONNECT TO TIE-INTO SITE GROUND RING. TYPICAL OF 3 PLACES.
- 9. #2 SOLID TINNED BARE COPPER WIRE FROM DOOR POST TO DOOR. TYPICAL OF 3 PLACES.
- 10. #2 SOLID TINNED BARE COPPER WIRE FROM DOOR POST TO TIE-INTO SITE GROUND RING. TYPICAL OF 3 PLACES.
- 11. #2 SOLID TINNED BARE COPPER WIRE TOWER GROUND RING BURIED MINIMUM 30" BELOW GRADE.
- 12. #2 SOLID TINNED BARE COPPER WIRE FROM TOWER TO TIE-INTO TOWER GROUND RING. TYPICAL OF 2 PLACES.
- 13. #2 SOLID TINNED BARE COPPER WIRE FROM TOWER GROUND RING TO TIE-INTO SITE GROUND RING. TYPICAL OF 2 PLACES.


CLIENT



DW Tower, LLC

CARRIER

PLANS PREPARED BY



Young design corp

architecture / project management
10245 E. Via Linda, Scottsdale, AZ 85258
ph: 480 451 9609 fax: 480 451 9608
e mail: corporate@ydcoffice.com

SEAL

PRELIMINARY
FOR REVIEW
ONLY

NO.	DATE	DESCRIPTION
0	2/6/2025	FINAL CD'S

ARCHITECTS JOB NO.

YDC - 11240

PROJECT INFORMATION

SKY HI

112 N. AZTEC CIRCLE
PINETOP, AZ 85935

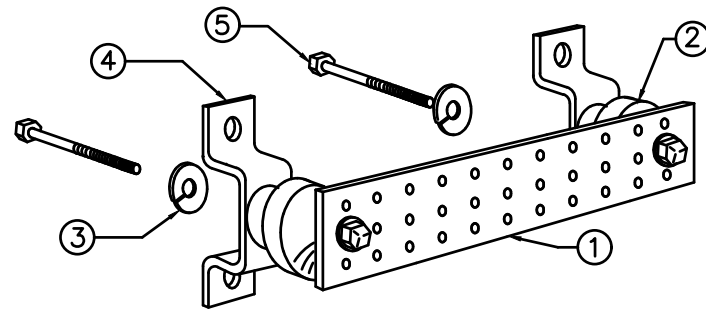
SHEET TITLE

GROUNDING PLAN

JURISDICTION APPROVAL

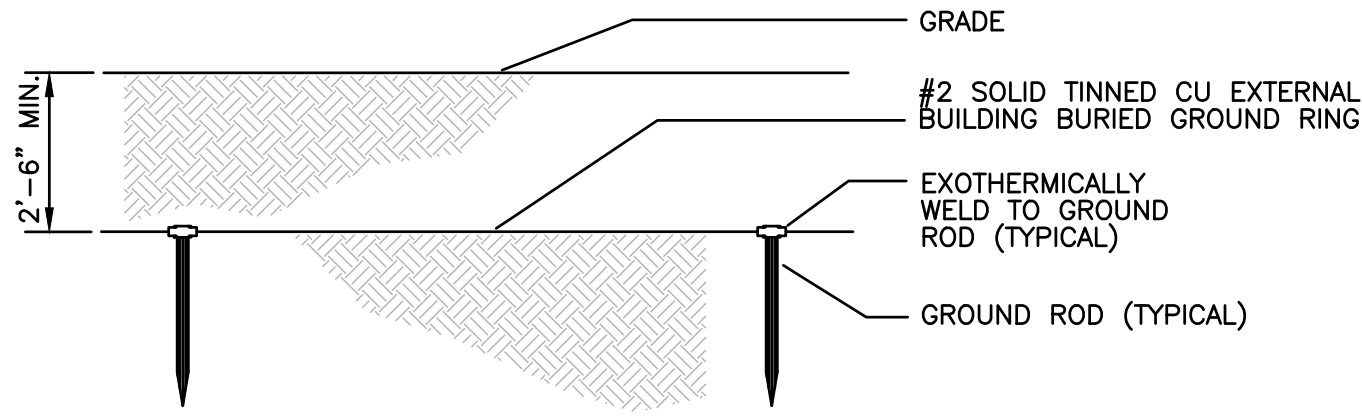
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E-4

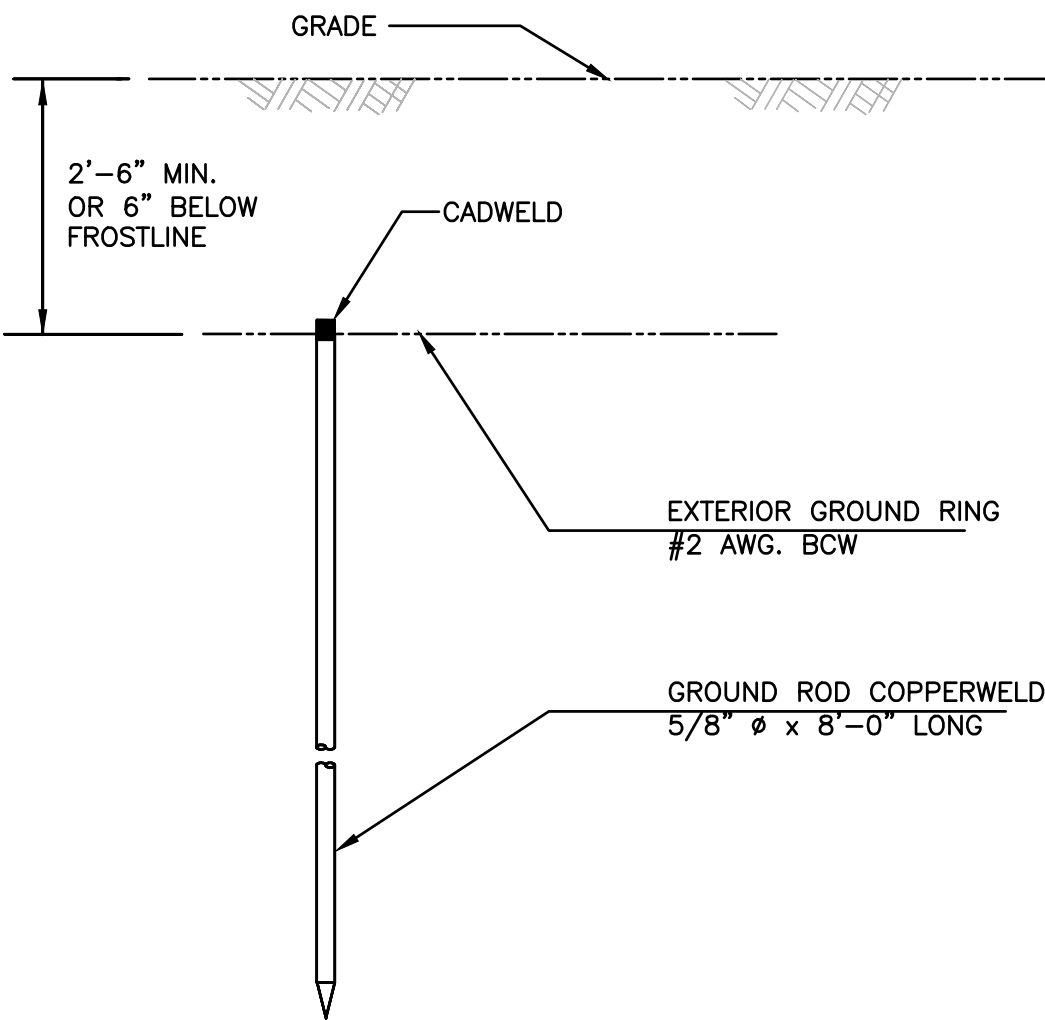


- NOTES:
- 1) COPPER GROUND BAR OR APPROVED EQUAL, 1/4" x 4" x 12", HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
 - 2) SPACERS AS REQUIRED
 - 3) 5/8" LOCKWASHERS
 - 4) WALL MOUNTING BRACKET
 - 5) 5/8" -11 x 1" H.H.C.S. BOLTS
 - 6) GROUND BAR TO BE PURCHASED FROM ROHN.

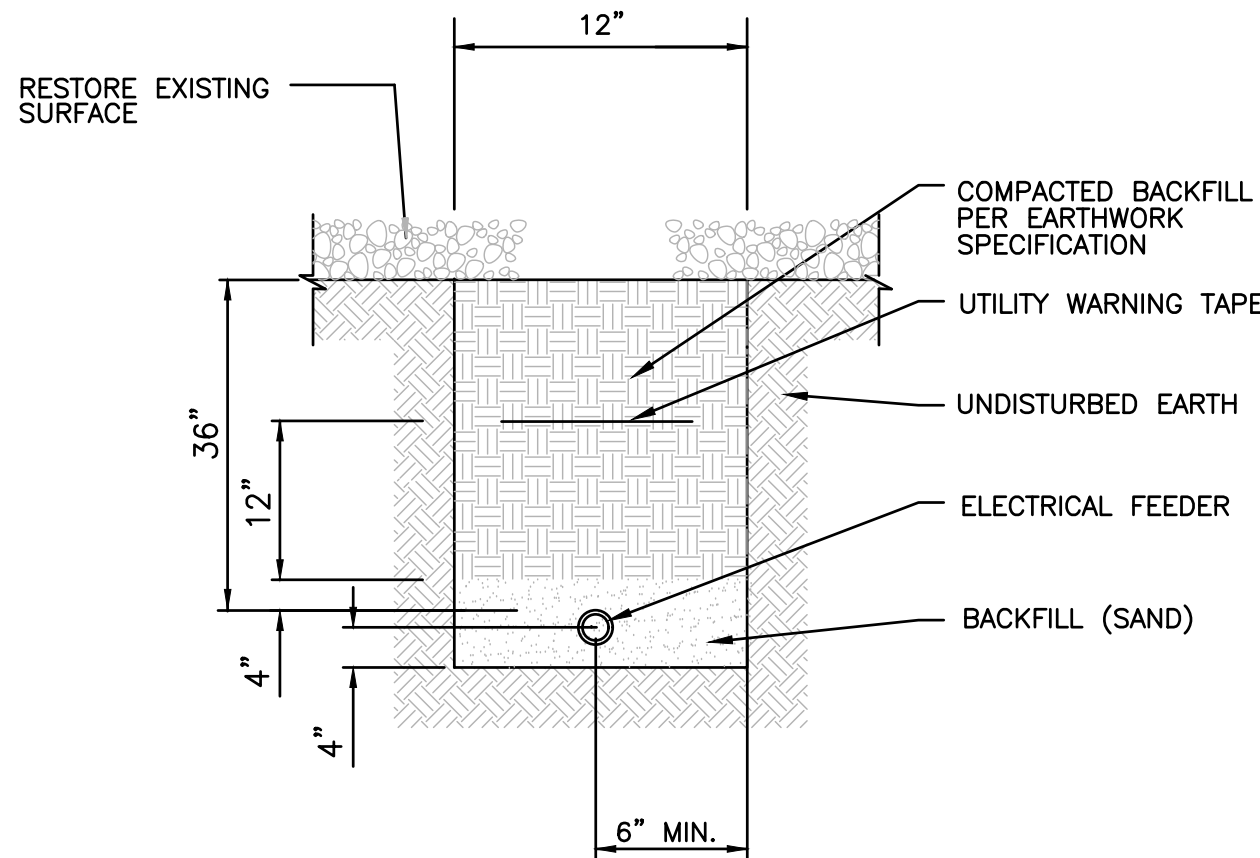
1 COPPER GROUND BAR
E-4.1 NOT TO SCALE



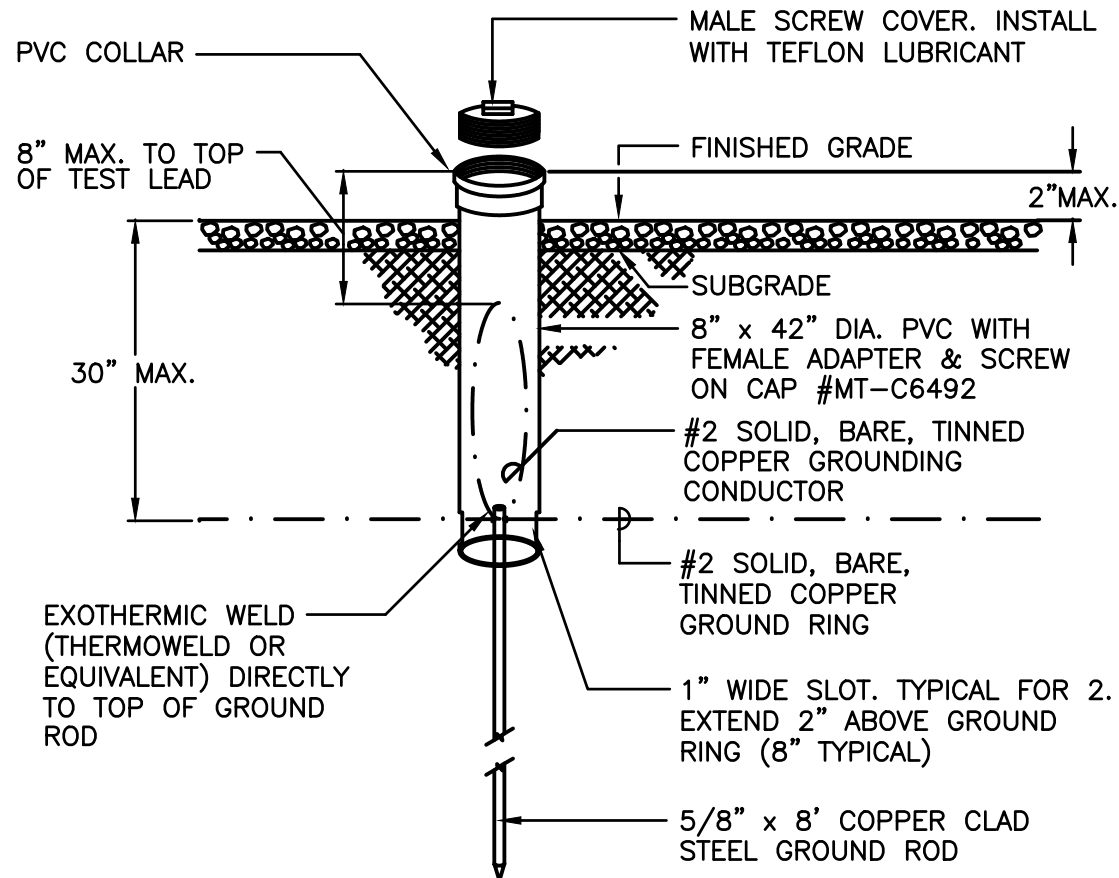
2 EXTERIOR GROUND RING DETAIL
E-4.1 NOT TO SCALE



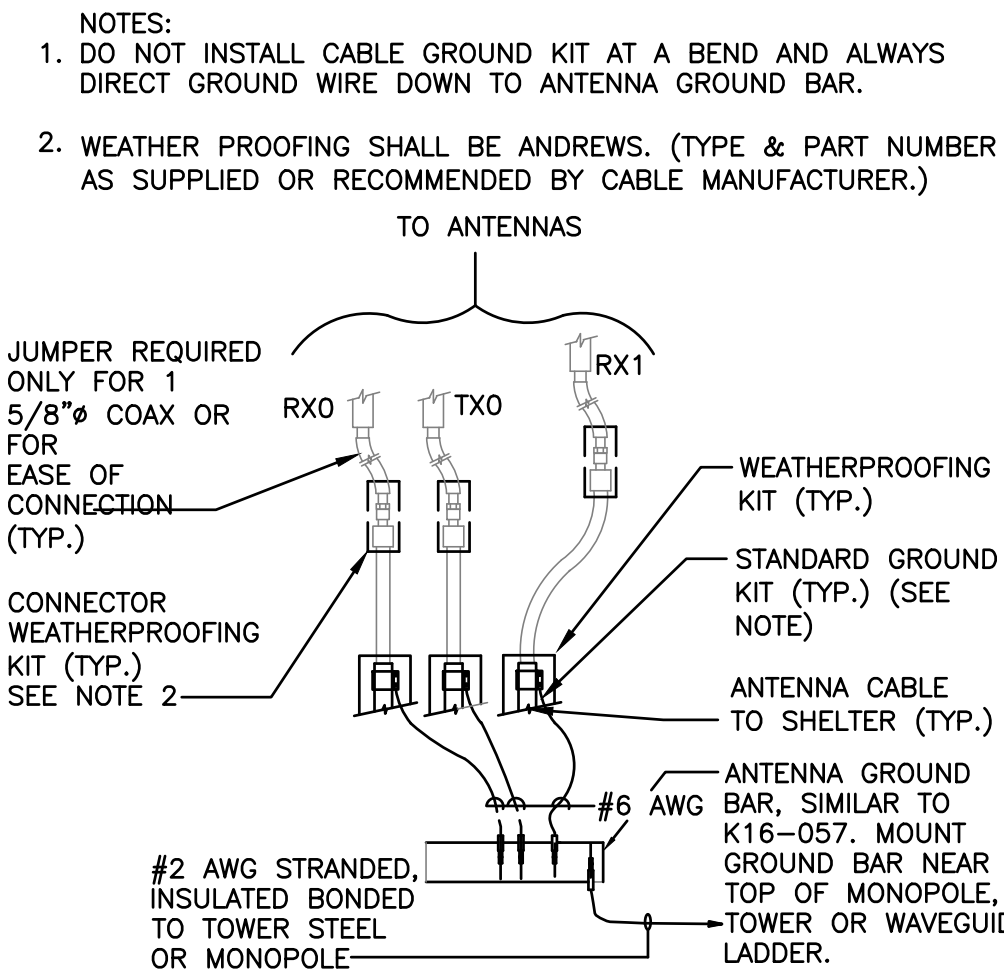
3 GROUND ROD DETAIL
E-4.1 NOT TO SCALE



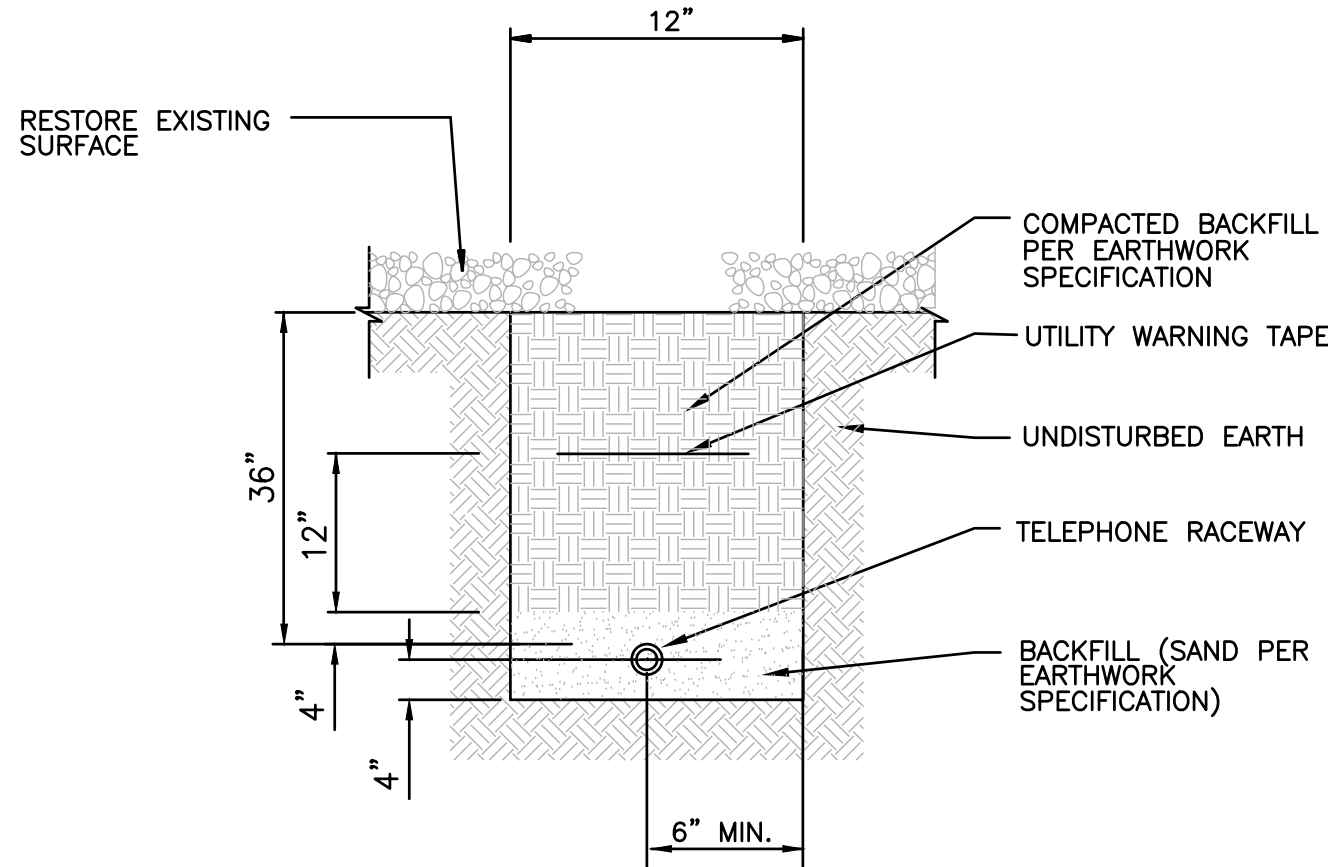
4 ELECTRICAL TRENCH DETAIL
E-4.1 NOT TO SCALE



5 GROUND TEST WELL
E-4.1 NOT TO SCALE



6 ANTENNA GROUND BAR
E-4.1 NOT TO SCALE



7 TELEPHONE TRENCH DETAIL
E-4.1 NOT TO SCALE

8 NOT USED
E-4.1 NOT TO SCALE

CLIENT

DW Tower, LLC

CARRIER

PLANS PREPARED BY

architecture / project management
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ARCHITECTS JOB NO.
YDC - 11240

PROJECT INFORMATION

SKY HI

112 N. AZTEC CIRCLE
PINETOP, AZ 85935

SHEET TITLE

GROUNDING DETAILS

JURISDICTION APPROVAL

SHEET NUMBER

E-4.1

APN 311-19-020A
OWNER: SKY-HI DOMESTIC
WATER IMPROVEMENT
DISTRICT

1. THIS PLAN IS FOR GRADING AND DRAINAGE AT THE PROPOSED SITE. INFORMATION RELATED TO CONSTRUCTION OF THE TOWER AND EQUIPMENT NECESSARY FOR OPERATION OF THE TOWER IS SHOWN CONCEPTUALLY. DETAILED INFORMATION BEYOND GRADING / DRAINAGE FOR THE TOWER MUST BE OBTAINED FROM THE SHEETS DEALING WITH THAT DESIGN.
2. STEM WALL MAY REQUIRE SAFETY RAILING TO PROTECT PERSONNEL FROM SLIPS, TRIPS AND FALLS. DESIGN OF SAFETY RAILING IS BEYOND THE SCOPE OF THIS GRADING AND DRAINAGE PLAN AND SHOULD BE PERFORMED BY OTHERS.
3. CONTRACTOR IS RESPONSIBLE FOR WARNING SIGNAGE FOR OVERHEAD POWER LINES.
4. FINISHED GRADE POINT COORDINATES AND ELEVATIONS PROVIDED ON SHEET C-102



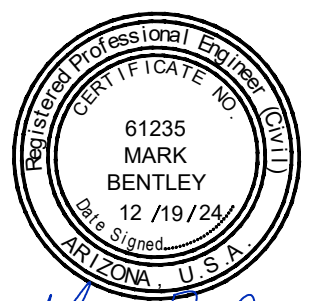
**HALEY
ALDRICH**

HALEY & ALDRICH, INC.
600 S. Meyer Avenue, Suite 100
Tucson, AZ 85701-2479
Tel: 520.289.8600
www.haleyaldrich.com

FIELD BY:	NAY
DRAWN BY:	MAB
CHECKED BY:	CJL

REVISIONS

NO.	DATE	DESCRIPTION
0	12/11/24	PRELIMINARY



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PROJECT No.
0206403-005

SITE NAME:
SKY HI

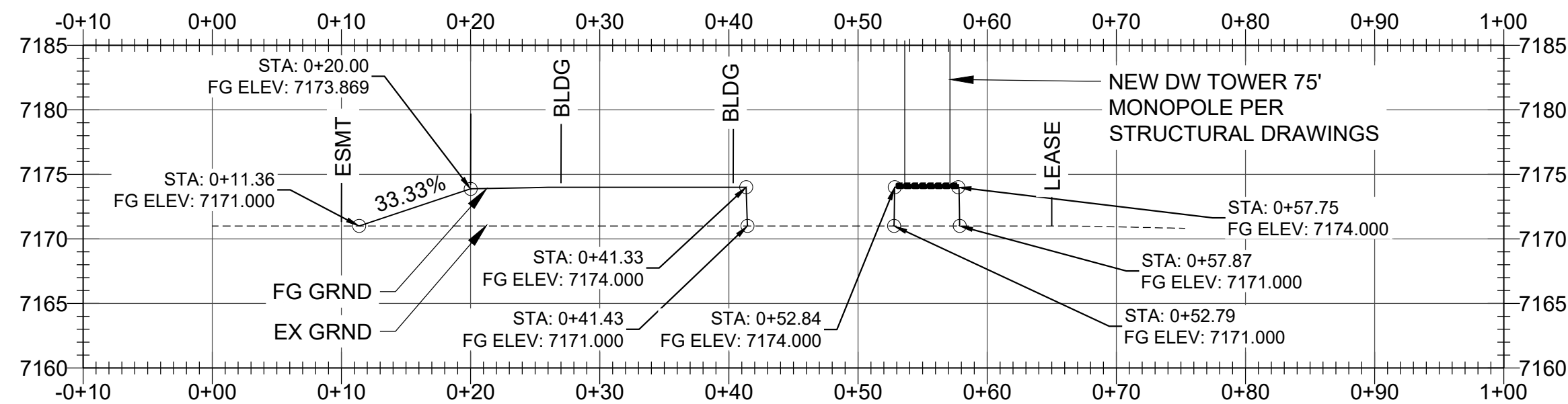
SITE ADDRESS:
**112 N AZTEC CIR
PINETOP, AZ 85935**

SHEET TITLE:
**GRADING & DRAINAGE
PLANS**

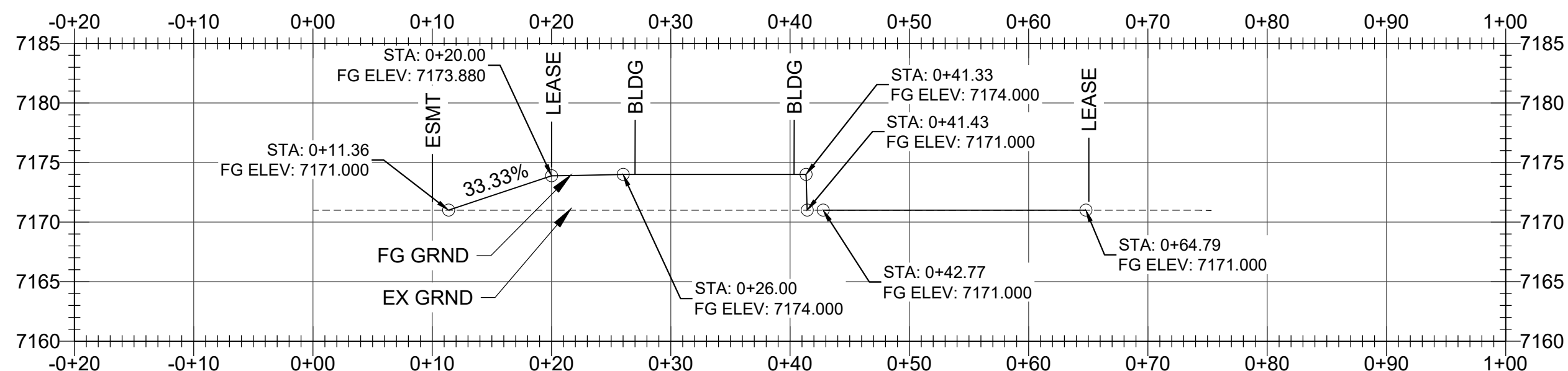
SHEET NO. C-101	REVISION: 0
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SCALE IN FEET

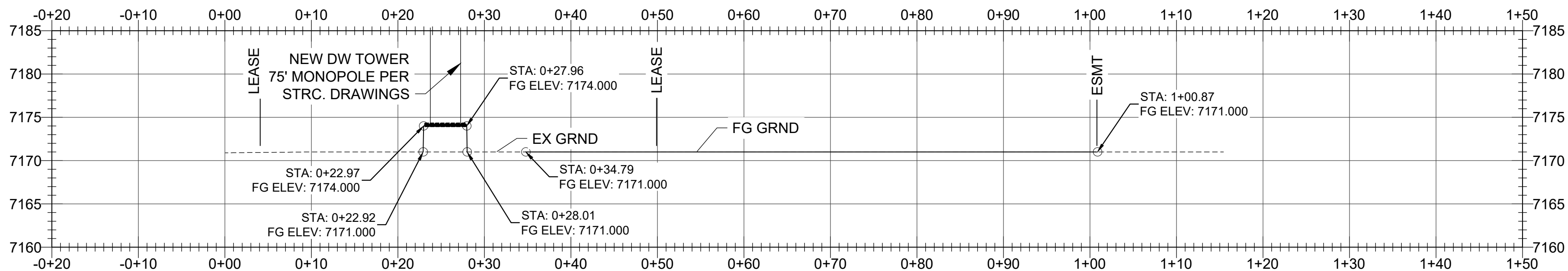




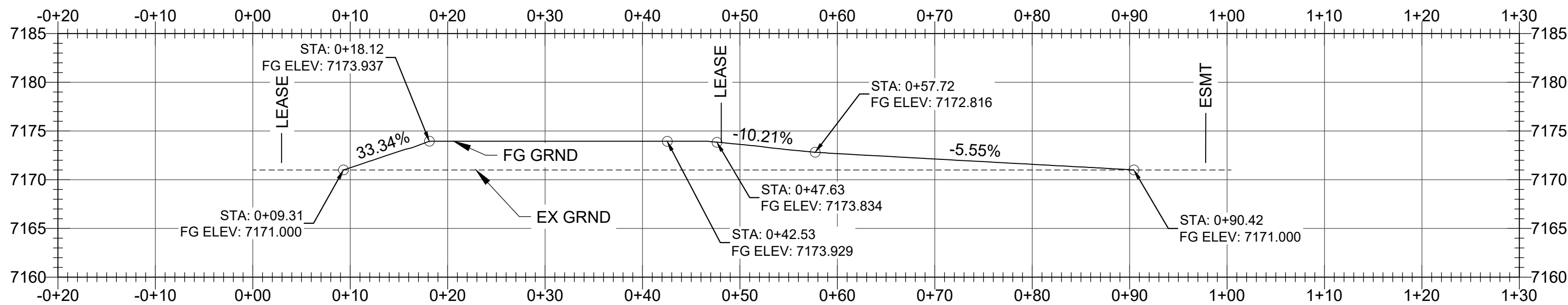
1 SITE CROSS-SECTION
C-101 SCALE: AS SHOWN



2 SITE CROSS-SECTION
C-102 SCALE: AS SHOWN



3 SITE CROSS-SECTION
C-101 SCALE: AS SHOWN



4 SITE CROSS-SECTION
C-101 SCALE: AS SHOWN

FINISHED GRADE POINTS			
POINT NO.	ELEVATION	NORTHING	EASTING
1	7174.000	1149022.0267	784276.3242
2	7174.000	1149006.7330	784275.2220
3	7174.000	1149004.6784	784303.7315
4	7174.000	1149019.9721	784304.8337
5	7171.000	1149020.0646	784304.9406
6	7171.000	1149013.3643	784266.6786
7	7171.000	1149001.3684	784266.1894
8	7173.880	1148998.6939	784303.3002
9	7173.880	1149000.7485	784274.7908
10	7173.651	1149005.5415	784307.0610
11	7173.444	1149006.8975	784308.6195
12	7171.494	1149029.9856	784327.3491
13	7171.302	1149031.8276	784329.9125
14	7171.171	1149032.2057	784331.5288
15	7171.000	1149032.2057	784334.8673
16	7171.000	1149026.2057	784334.8673
17	7171.100	1149025.8666	784332.8789
18	7171.198	1149024.9044	784331.1361
19	7172.880	1149001.7040	784312.1324
20	7173.280	1148999.0411	784309.2076
21	7173.480	1148998.5026	784307.2910
22	7171.000	1148992.1381	784274.0700
23	7171.000	1148990.0763	784302.6791
24	7171.000	1148991.8082	784310.1805
25	7171.000	1148996.8878	784315.9931
26	7171.000	1149002.0132	784318.1005
27	7171.000	1149023.4886	784330.8204
28	7171.000	1149025.0739	784332.1932
31	7174.000	1149012.5219	784304.2968
32	7171.000	1149032.4632	784358.0275
33	7171.000	1149032.4632	784317.0523
34	7171.000	1149031.2723	784313.8133
35	7171.000	1149027.6215	784312.0548
36	7171.000	1149025.7967	784311.9667
37	7171.000	1149023.3418	784310.8904
38	7171.000	1149021.5195	784307.4183
39	7171.000	1149021.8224	784296.8636
40	7171.000	1149022.8736	784293.9515
41	7171.000	1149026.9428	784292.0234
42	7171.000	1149039.3021	784292.4256

FINISHED GRADE POINTS			
POINT NO.	ELEVATION	NORTHING	EASTING
43	7171.000	1149042.4572	784293.9773
44	7171.000	1149043.8114	784297.5600
45	7171.000	1149043.4002	784310.5422
46	7171.000	1149042.9570	784324.5352
47	7171.000	1149042.4632	784342.5274
48	7171.000	1149042.4632	784358.5274
49	7174.000	1149035.5754	784283.0894
50	7174.000	1149035.8924	784285.5693
51	7171.000	1149035.8987	784285.6189
52	7174.000	1149033.0885	784282.8347
53	7171.000	1149033.0387	784282.8296
54	7174.000	1149035.4038	784280.5953
55	7171.000	1149035.4003	784280.5455
56	7174.000	1149038.0735	784282.9907
57	7171.000	1149038.1234	784282.9887
58	7171.000	1149017.0086	784267.8231
59	7171.000	1149020.1073	784270.5384



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FIELD BY: NAY
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REVISIONS

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NO.	DATE	DESCRIPTION



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PROJECT No.
0206403-005
SITE NAME:
SKY HI

SITE ADDRESS:
112 N AZTEC CIR
PINETOP, AZ 85935

SHEET TITLE:
GRADING & DRAINAGE
PROFILES

SHEET NO.
C-101
REVISION:
0

0 10 20 30 40
SCALE IN FEET

