

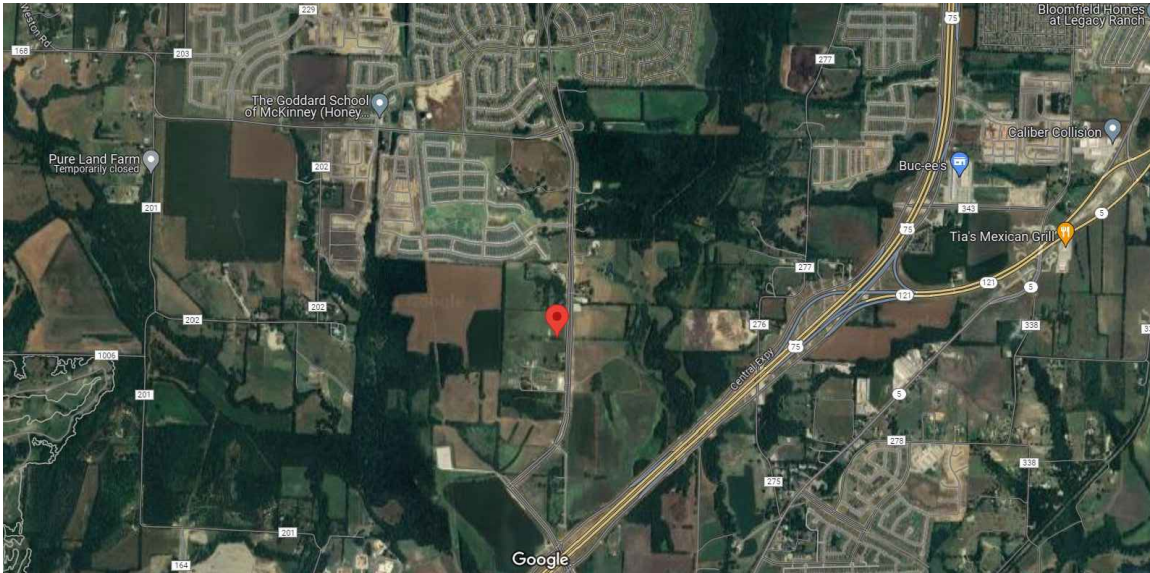
AMANDA FERGUSON

SITE: 1780

155' STEALTH TOWER

FOR MULTIPLE WIRELESS CARRIERS

VICINITY MAP



DIRECTIONS

FROM DALLAS, TEXAS. HEAD NORTH ON US-75 N, CONTINUE STRAIGHT TO STAY ON US-75 N, TAKE EXIT 43 TOWARD FM 543/LAUD HOWELL PKWY, MERGE ONTO N CENTRAL EXPY N, TURN LEFT ONTO TX-195 SPUR/LAUD HOWELL PKWY, TURN RIGHT ONTO TRINITY FALLS PKWY, USE THE LEFT LANE TO MAKE A U-TURN. SIDE WILL BE ON THE RIGHT.

PROJECT NOTES

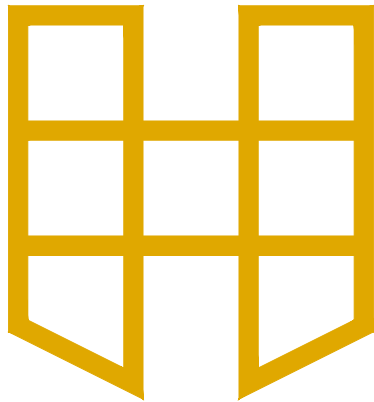
HEMPHILL TOWER SITE DEVELOPMENT SPECIFICATIONS SUPPLEMENT THE CONSTRUCTION DRAWINGS. FACILITY IS NOT STAFFED AND NORMALLY NOT OCCUPIED.

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME

CODE COMPLIANCE

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

- 2021 INTERNATIONAL BUILDING CODE
- 2023 NATIONAL ELECTRIC CODE
- 2021 INTERNATIONAL FIRE CODE



CONSULTING ENGINEER



SPECIALTY TELECOMMUNICATIONS
SERVICES, LLC
FIRM NO.: F-16740
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

ENGINEER OF RECORD



ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
REGISTRATION NO.: 149870

ONE CALL SYSTEM



BEFORE YOU DIG, CALL TEXAS LINE
LOCATION FOR LOCATION OF
UNDERGROUND UTILITIES. CALL 811

PROJECT DATA

SITE NUMBER	1780
SITE NAME	AMANDA FERGUSON
SITE ADDRESS	TBD TRINITY FALLS PARKWAY MCKINNEY, TX
COUNTY	COLLIN
ZONING CLASS	
POWER COMPANY	ONCOR
CONTACT NAME	
TELEPHONE	888-222-8045
TELCO COMPANY	AT&T
CONTACT NAME	
TELEPHONE	800-331-0500
PROPERTY OWNER	TAMMY ROGERS (CONTACT IS RAINEY ROGERS)
TELEPHONE	972-989-7878
HEMPHILL CONTACT	MATT KLINE
TELEPHONE	918-884-7756
SURVEY CONTACT	POINT TO POINT LAND SURVEYORS
TELEPHONE	678-565-4440

2C COORDINATES

LAT: 33° 15' 45.50" LONG: -96° 37' 08.15"
(DEC. DEG.: 33.262639, -96.618931)
SURVEY AND 2C PROVIDED BY POINT TO POINT LAND SURVEYORS
AND INCLUDED IN THIS SET OF DRAWINGS FOR REFERENCE ONLY.

DRAWING INDEX

SHEET	SHEET TITLE	REV.
TS	TITLE SHEET	0
C1-1	SITE SURVEY	0
C1-2	SITE SURVEY	0
C1-3	SITE SURVEY	0
C2-1	OVERALL SITE PLAN	0
C2-2	COMPOUND LAYOUT	0
C3-1	TOWER ELEVATION	0
C3-3	GROUND EQUIPMENT DETAILS	0
C3-6	TRENCHING DETAILS	0
C4-1	ROADWAY AND COMPOUND DETAILS	0
C4-2	ROADWAY AND COMPOUND DETAILS	0
C6-1	COMPOUND WALL DETAILS	0
C6-2	COMPOUND WALL DETAILS	0
C6-3	COMPOUND WALL DETAILS	0
C6-4	COMPOUND WALL DETAILS	0
E1-1	ELECTRIC, LIGHTING, AND TELCO PLAN	0
E2-1	ELECTRICAL DETAILS	0
E3-1	GROUNDING PLAN	0
E4-1	GROUNDING DETAILS	0
G1-1	GENERAL NOTES	0
G1-2	GENERAL NOTES	0
L1-1	LANDSCAPING PLAN	0



HEMPHILL

1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



DRAFTING SERVICES
9 E 4TH ST. SUITE C-4
TULSA, OK 74103
918-215-7575

PROJECT NO:	1780
PROJECT NAME:	AMANDA FERGUSON
911 ADDRESS:	TBD
DRAWN BY:	LSV
CHECKED BY:	RGH/MK/SLT

ISSUED FOR:

APPROVAL

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL



ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
REGISTRATION NO.: 149870
FIRM NO.: F-16740

SCALE

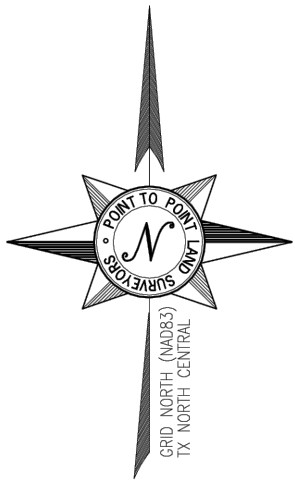
N.T.S.

TITLE SHEET

SHEET NUMBER: REVISION:

TS

0



PARENT PARCEL

OWNER: TAMMY JUNE ROGERS

SITE ADDRESS: TRINITY FALLS PARKWAY, MCKINNEY, TX 75071

PARCEL ID: 2119967

AREA: 1.6974 ACRES (PER TAX ASSESSOR)

ZONED: C - 2 (LOCAL COMMERCIAL DISTRICT)

ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS

REFERENCE: INST 20210301000391790

GNSS NOTES

THE FOLLOWING GNSS STATISTICS UPON WHICH THIS SURVEY IS BASED HAVE BEEN PRODUCED AT THE 95% CONFIDENCE LEVEL:

POSITIONAL ACCURACY: 0.02 FEET (HORZ) 0.21 FEET (VERT)
TYPE OF EQUIPMENT: CARLSON BRX7 BASE AND ROVER, DUAL FREQUENCY
TYPE OF GNSS FIELD PROCEDURE: ONLINE POSITION USER SERVICE
DATE OF SURVEY: 3/12/2024
DATUM / EPOCH: NAD_83(2011)(EPOCH:2010.0000)
PUBLISHED / FIXED CONTROL USE: N/A
GEOID MODEL: 18
COMBINED GRID FACTOR(S): 0.99985631 CENTERED ON THE BASE POINT AS SHOWN HEREON.
CONVERGENCE ANGLE: 1.02621944°
BENCHMARKS USED: DF8986, DF8984, DF4385

SURVEYOR'S CERTIFICATION

I DO HEREBY CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND AND UNDER MY SUPERVISION. THE HORIZONTAL DATUM (COORDINATES) ARE IN THE TERMS OF THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND ARE EXPRESSED AS DEGREES, MINUTES AND SECONDS, TO THE NEAREST HUNDREDTH OF A SECOND. THE VERTICAL DATUM (HEIGHTS) ARE IN TERMS OF NORTH AMERICAN VERTICAL DATUM OF 1988 AND ARE DETERMINED TO THE NEAREST TENTH OF A FOOT. I HEREBY CERTIFY THAT THIS MAP IS CORRECT AND THAT ANY VISIBLE ENCROACHMENTS ARE SHOWN HEREON.

DATE: 8/09/2024

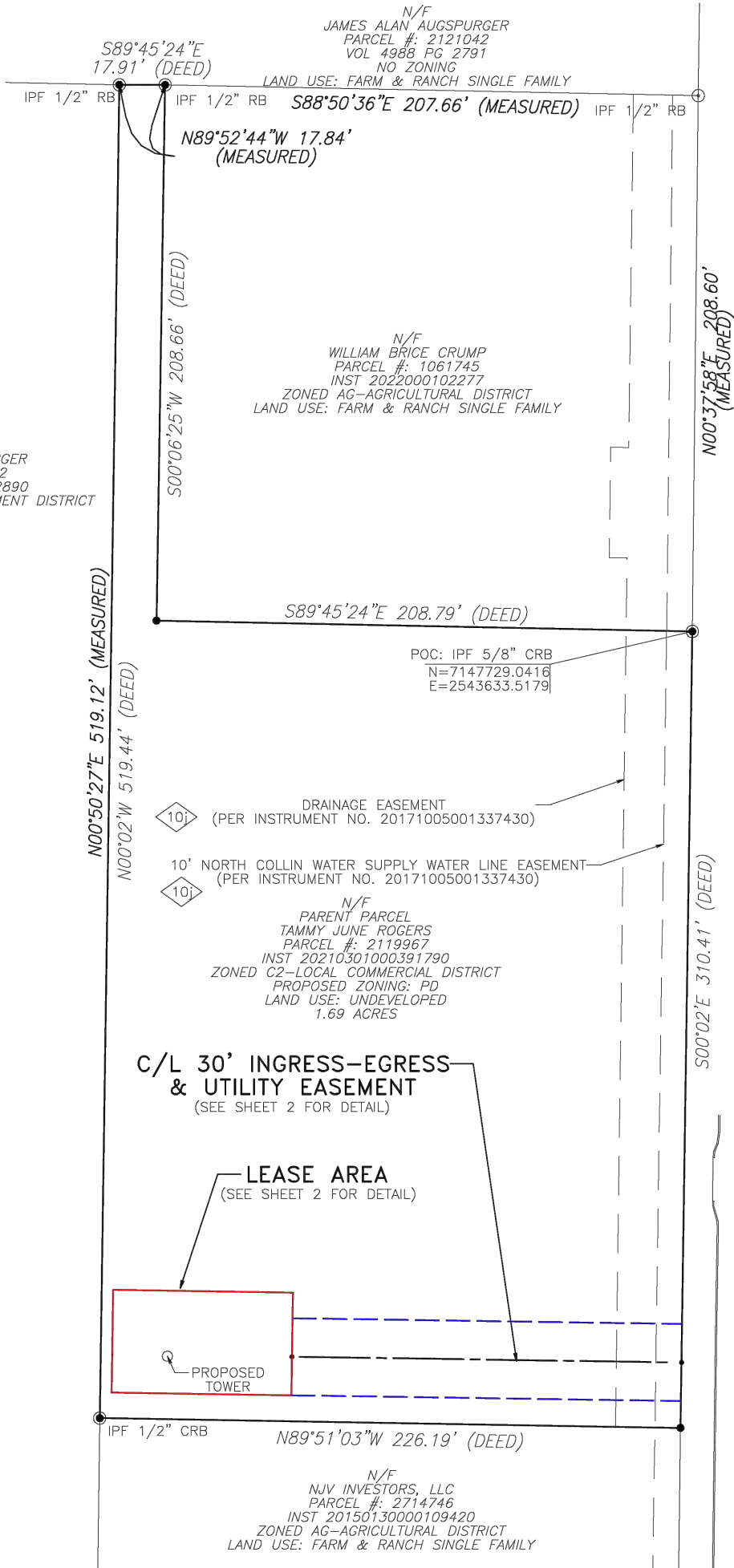
JUSTIN KYLE LAWRENCE TEXAS PROFESSIONAL LAND SURVEYOR LICENSE NO. 6589

THIS MAP IS NOT A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS. THIS MAP IS ONLY INTENDED FOR THE PARTIES AND PURPOSES SHOWN. THIS MAP IS NOT FOR RECORDATION.

LEGEND

POB POINT OF BEGINNING
POC POINT OF COMMENCEMENT
IFS IRON PIN SET
IPF IRON PIN FOUND
CMF CONCRETE MONUMENT FOUND
CRB CAPPED REBAR
RB REBAR
OTP OPEN TOP PIPE
UP UTILITY POLE
LP LIGHT POLE
SDMH STORM DRAIN MANHOLE
BC BACK OF CURB
OU OVERHEAD UTILITY
BWF BARBED WIRE FENCE
HH HANDHOLE
N/F NOW OR FORMERLY
R/W RIGHT-OF-WAY

30 0 60 120
GRAPHIC SCALE IN FEET
SCALE: 1" = 60' (11x17)



TRINITY FALLS PARKWAY
VARIABLE WIDTH PUBLIC RIGHT-OF-WAY
(PER INSTRUMENT NO. 20170831001170440)



VICINITY MAP
NOT TO SCALE

GENERAL NOTES

* THIS SPECIFIC PURPOSE SURVEY IS FOR THE LEASED PREMISES AND EASEMENTS ONLY. THIS SPECIFIC PURPOSE SURVEY WAS PREPARED FOR THE EXCLUSIVE USE OF HEMPHILL TOWERS, LLC AND EXCLUSIVELY FOR THE TRANSFERRAL OF THE LEASED PREMISES AND THE RIGHTS OF EASEMENT SHOWN HEREON AND SHALL NOT BE USED AS AN EXHIBIT OR EVIDENCE IN THE FEE SIMPLE TRANSFERRAL OF THE PARENT PARCEL NOR ANY PORTION OR PORTIONS THEREOF. BOUNDARY INFORMATION SHOWN HEREON HAS BEEN COMPILED FROM TAX MAPS AND DEED DESCRIPTIONS ONLY. NO BOUNDARY SURVEY OF THE PARENT PARCEL WAS PERFORMED.

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

BASIS OF BEARING: GNSS OBSERVATIONS CONDUCTED AT THE TIME OF SURVEY.

BASIS OF ELEVATION: GNSS OBSERVATIONS CONDUCTED AT THE TIME OF SURVEY.

EQUIPMENT USED FOR ANGULAR & LINEAR MEASUREMENTS: GEOMAX ZOOM ROBOTIC AND CARLSON BRX7 BASE AND ROVER [DATE OF LAST FIELD VISIT: 3/12/2024]. SEE GNSS NOTES FOR GNSS EQUIPMENT.

THE 1' CONTOURS AND SPOT ELEVATIONS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE ADJUSTED TO NAVD 88 DATUM (COMPUTED USING GEOID18) AND HAVE A VERTICAL ACCURACY OF ± 0.5'. CONTOURS OUTSIDE THE IMMEDIATE SITE AREA ARE APPROXIMATE.

BEARINGS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE BASED ON TEXAS GRID NORTH (NAD 83) NORTH CENTRAL ZONE.

PER THE FEMA FLOODPLAIN MAPS, THE SITE IS LOCATED IN AN AREA DESIGNATED AS ZONE X (AREA OF MINIMAL FLOOD HAZARD). COMMUNITY PANEL NO. :48085C0165J, DATED: 06/02/2009

NO WETLAND AREAS HAVE BEEN INVESTIGATED BY THIS SPECIFIC PURPOSE SURVEY.

ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS.

ANY UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM ABOVE GROUND FIELD SURVEY INFORMATION. THE SURVEYOR MAKES NO GUARANTEES THAT ANY UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT ANY UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED ANY UNDERGROUND UTILITIES.

TEXAS REGISTRATION NO. 10194197



Know what's below.
Call before you dig.

[SURVEY NOT VALID WITHOUT SHEET 2-3 OF 3]



NO.	DATE	REVISION
3.	01/29/25	COMMENTS
4.	2/26/25	COMMENTS
5.	3/27/25	COMMENTS
6.	4/24/25	LEASE AREA

* SPECIFIC PURPOSE SURVEY PREPARED BY:

POINT TO POINT
LAND SURVEYORS

100 Governors Trace, Ste. 103
Peachtree City, GA 30269
(p) 678.565.4440 (f) 678.565.4497
(w) pointtopointsurvey.com
Texas Registration NO. 10194197



SPECIFIC PURPOSE SURVEY
PREPARED FOR:



HEMPHILL

1305 N. LOUISVILLE AVENUE
TULSA, OK 74115

AMANDA FERGUSON

SITE NO. 1780

MEREDITH HART SURVEY,
ABSTRACT 371,
COLLIN COUNTY, TEXAS

DRAWN BY: RJH

CHECKED BY: JKL

APPROVED: D. MILLER

DATE: MARCH 25, 2024

P2P JOB #: 240451TX

SHEET:

1

OF 3

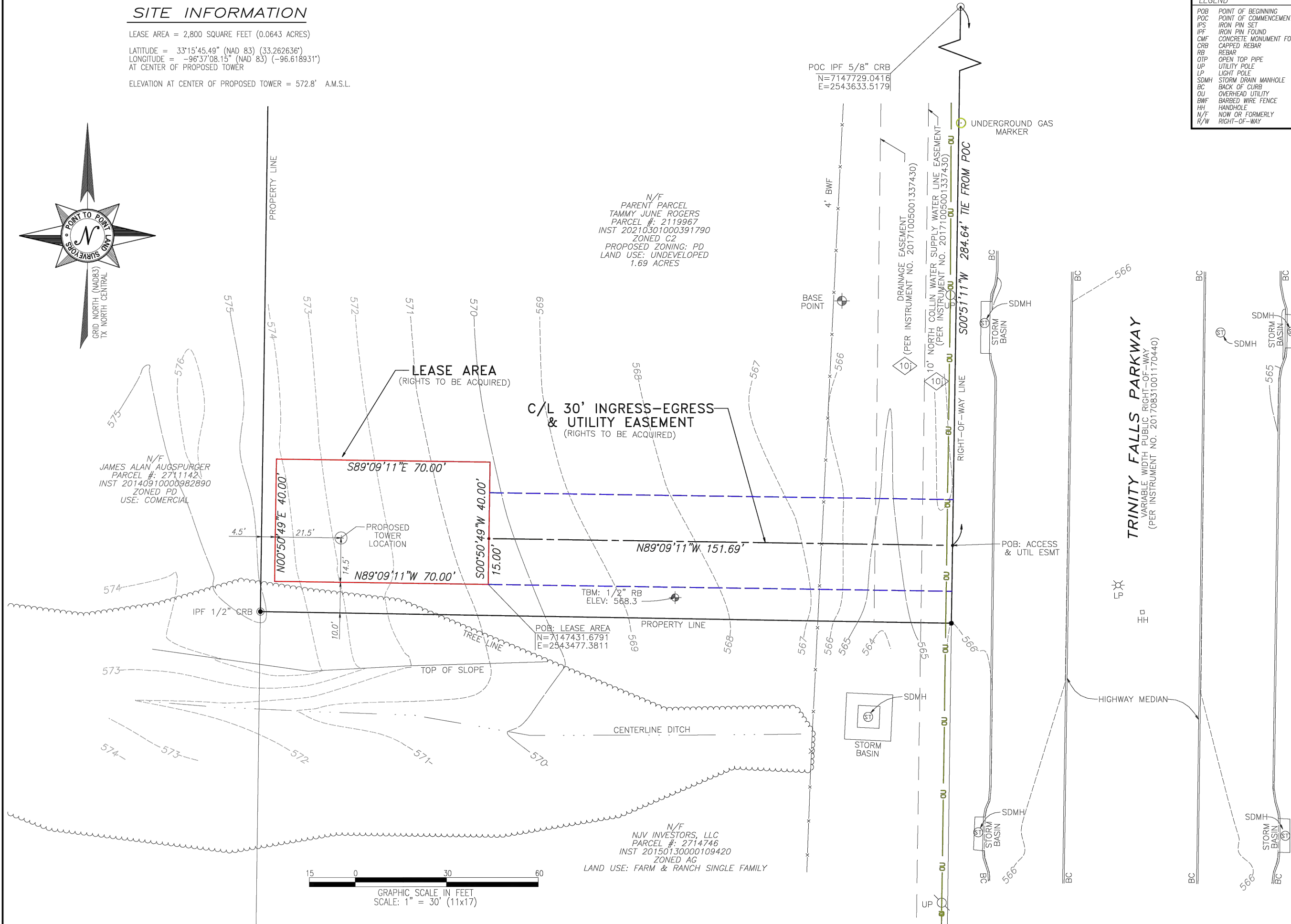
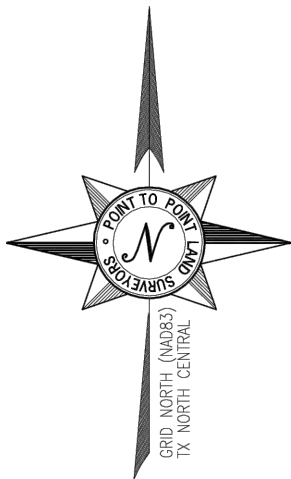
E:\Point To Point Dropbox\2P2P Current Jobs\2024\240451TX-Amanda Ferguson\240451TX.pr

SITE INFORMATION

LEASE AREA = 2,800 SQUARE FEET (0.0643 ACRES)

LATITUDE = 33°15'45.49" (NAD 83) (33.262636°)
LONGITUDE = -96°37'08.15" (NAD 83) (-96.618931°)
AT CENTER OF PROPOSED TOWER

ELEVATION AT CENTER OF PROPOSED TOWER = 572.8' A.M.S.L.



LEGEND

POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
IPS	IRON PIN SET
IPF	IRON PIN FOUND
CMF	CONCRETE MONUMENT FOUND
CRB	CAPPED REBAR
RB	REBAR
OTP	OPEN TOP PIPE
UP	UTILITY POLE
LP	LIGHT POLE
SDMH	STORM DRAIN MANHOLE
BC	BACK OF CURB
OU	OVERHEAD UTILITY
BWF	BARBED WIRE FENCE
HH	HANDHOLE
N/F	NOW OR FORMERLY
R/W	RIGHT-OF-WAY



Signature of Justin Kyle Lawrence

NO.	DATE	REVISION
3.	01/29/25	COMMENTS
4.	2/26/25	COMMENTS
5.	3/27/25	COMMENTS
6.	4/24/25	LEASE AREA

* SPECIFIC PURPOSE SURVEY PREPARED BY:

POINT TO POINT LAND SURVEYORS

100 Governors Trace, Ste. 103
Peachtree City, GA 30269
(p) 678.565.4440 (f) 678.565.4497
(w) pointtopointsurvey.com
Texas Registration NO. 10194197



SPECIFIC PURPOSE SURVEY PREPARED FOR:



AMANDA FERGUSON

SITE NO. 1780

MEREDITH HART SURVEY,
ABSTRACT 371,
COLLIN COUNTY, TEXAS

DRAWN BY: RJH	SHEET:
CHECKED BY: JKL	2
APPROVED: D. MILLER	
DATE: MARCH 25, 2024	
P2P JOB #: 240451TX	OF 3

LEGAL DESCRIPTION SHEET

LEASE AREA

ALL THAT OR PARCEL OF LAND LYING AND BEING IN THE MEREDITH HART SURVEY, ABSTRACT 371, COLLIN COUNTY, TEXAS, AND BEING A PORTION OF THE LANDS OF TAMMY JUNE ROGERS, AS RECORDED IN INSTRUMENT 20210301000391790, COLLIN COUNTY RECORDS, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TO FIND THE POINT OF BEGINNING, COMMENCE AT A 5/8-INCH CAPPED REBAR FOUND AT A POINT ON THE WEST RIGHT-OF-WAY OF TRINITY FALLS PARKWAY, AND A CORNER COMMON TO SAID ROGERS LANDS AND THE LANDS OF WILLIAM BRICE CRUMP, AS RECORDED IN INSTRUMENT 2022000102277, COLLIN COUNTY RECORDS, SAID CAPPED REBAR HAVING A TEXAS GRID NORTH (NAD83) NORTH CENTRAL ZONE VALUE OF N=7147729.0416 E=2543633.5179;

THENCE RUNNING ALONG SAID RIGHT-OF-WAY LINE, SOUTH 00°51'11" WEST, 284.64 FEET TO A POINT;
THENCE LEAVING SAID RIGHT-OF-WAY LINE AND RUNNING, NORTH 89°09'11" WEST, 151.69 FEET TO THE ENDING AT A POINT ON THE LEASE AREA;
THENCE RUNNING ALONG SAID LEASE AREA, SOUTH 00°50'49" WEST, 15.00 FEET TO A POINT AND THE TRUE POINT OF BEGINNING;

THENCE RUNNING, NORTH 89°09'11" WEST, 70.00 FEET TO A POINT;

THENCE, NORTH 00°50'49" EAST, 40.00 FEET TO A POINT;

THENCE, SOUTH 89°09'11" EAST, 70.00 FEET TO A POINT;

THENCE, SOUTH 00°50'49" WEST, 40.00 FEET TO A POINT AND THE POINT OF BEGINNING.

SAID TRACT CONTAINS 0.0643 ACRES (2,800 SQUARE FEET), MORE OR LESS.

PARENT PARCEL

(PER FILE NO. 01-24011711)

1.6974 ACRES OF LAND SITUATED IN COLLIN COUNTY, TEXAS, IN THE MEREDITH HART SURVEY, ABSTRACT NO. 371, BEING A RESURVEY OF PART OF "THE 30-ACRE TRACT" DESCRIBED IN A DEED FROM JAMES E. (JIMMY) CRUMP AND WIFE, SHIRLEY CRUMP TO CRUMP'S GARDEN, INC. DATED OCT. 3, 1986, RECORDED IN VOLUME 2476, PAGE 208 OF THE COLLIN COUNTY DEED RECORDS, BEING DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT AN IRON PIN SET IN THE EAST LINE OF SAID THE 30-ACRE TRACT AND AT THE SOUTHEAST CORNER OF THE WILLIA R. CRUMP 1 ACRE, REF. VOLUME 1137, PAGE 615 AND IN THE WEST R.O.W. LINE OF FARM ROAD NO. 543;

THENCE SOUTH 0°02' EAST, 310.41 FEET WITH THE EAST LINE OF SAID THE 30-ACRE TRACT AND WITH SAID WEST R.O.W. LINE TO AN IRON PIN SET IN SAID LINE, AT THE NORTHEAST CORNER OF A 1.7408 ACRE TRACT;

THENCE NORTH 89°51'03" WEST, 226.19 FEET WITH THE NORTH LINE OF SAID 1.7408 ACRE TRACT TO AN IRON PIN SET AT THE NORTHWEST CORNER OF SAID 1.7408 ACRE TRACT;

THENCE NORTH 0°02' WEST, 519.44 FEET TO AN IRON PIN SET IN THE NORTH LINE FENCE OF SAID THE 30-ACRE TRACT AND IN THE SOUTH LINE OF THE JOE B. CRUMP 30.25 ACRES, REF. V. 756, P. 672;

THENCE SOUTH 89°45'24" EAST, 17.91 FEET WITH SAID NORTH LINE AND SAID SOUTH LINE AND WITH SAID FENCE TO AN IRON PIN FOUND IN SAID LINE AT THE NORTHWEST CORNER OF SAID 1 ACRE TRACT;

THENCE SOUTH 0°06'25" WEST, 208.66 FEET WITH THE WEST LINE OF SAID 1 ACRE TRACT TO AN IRON PIN FOUND AT THE SOUTHWEST CORNER OF SAID 1 ACRE TRACT;

THENCE SOUTH 89°45'24" EAST, 208.79 FEET WITH THE SOUTH LINE OF SAID 1 ACRE TRACT TO THE PLACE OF BEGINNING AND CONTAINING 1.6974 ACRES OF LAND.

*SURVEYOR'S NOTE: SCRIVENER'S ERROR FIXED ON FIRST CALL SOUTH 0°20' EAST CHANGED TO SOUTH 0°02' EAST

30' INGRESS-EGRESS & UTILITY EASEMENT

TOGETHER WITH A 30-FOOT WIDE INGRESS-EGRESS AND UTILITY EASEMENT (LYING 15 FEET EACH SIDE OF CENTERLINE) LYING AND BEING IN THE MEREDITH HART SURVEY, ABSTRACT 371, COLLIN COUNTY, TEXAS, AND BEING A PORTION OF THE LANDS OF TAMMY JUNE ROGERS, AS RECORDED IN INSTRUMENT 20210301000391790, COLLIN COUNTY RECORDS, AND BEING MORE PARTICULARLY DESCRIBED BY THE FOLLOWING CENTERLINE DATA:

TO FIND THE POINT OF BEGINNING, COMMENCE AT A 5/8-INCH CAPPED REBAR FOUND AT A POINT ON THE WEST RIGHT-OF-WAY OF TRINITY FALLS PARKWAY, AND A CORNER COMMON TO SAID ROGERS LANDS AND THE LANDS OF WILLIAM BRICE CRUMP, AS RECORDED IN INSTRUMENT 2022000102277, COLLIN COUNTY RECORDS, SAID CAPPED REBAR HAVING A TEXAS GRID NORTH (NAD83) NORTH CENTRAL ZONE VALUE OF N=7147729.0416 E=2543633.5179;

THENCE RUNNING ALONG SAID RIGHT-OF-WAY LINE, SOUTH 00°51'11" WEST, 284.64 FEET TO A POINT AND THE TRUE POINT OF BEGINNING;

THENCE LEAVING SAID RIGHT-OF-WAY LINE AND RUNNING, NORTH 89°09'11" WEST, 151.69 FEET TO THE ENDING AT A POINT ON THE LEASE AREA.

BEARINGS BASED ON TEXAS GRID NORTH, NAD83, NORTH CENTRAL ZONE.

TITLE EXCEPTIONS

THIS SURVEY WAS COMPLETED WITH THE AID OF TITLE WORK PREPARED BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, EFFECTIVE DATE: MARCH 10, 2024, 8:00 AM, BEING G.F. NO.: 01-24011711, FOR THE PARENT PARCEL, TO DETERMINE THE IMPACTS OF EXISTING TITLE EXCEPTIONS.

(EXCEPTIONS 1-10F ARE STANDARD AND NOT THE TYPE TO BE DEPICTED.)

G. RIGHT-OF-WAY EASEMENT EXECUTED BY JOE CRUMP AND WIFE, WANDA JO. CRUMP, TO NORTH COLLIN WATER SUPPLY CORPORATION, DATED OCTOBER 22, 1970, FILED APRIL 8, 1971, RECORDED IN/UNDER VOL 780 PAGE 549, OF THE REAL PROPERTY RECORDS OF COLLIN COUNTY, TEXAS.

[THIS ITEM IS APPLICABLE TO THE PARENT PARCEL BUT IT IS NOT PLOTTED HEREON BECAUSE THE DESCRIPTION OF THIS EASEMENT IS VAGUE AND THEREFORE, WE ARE NOT ABLE TO ASCERTAIN THE EXACT LOCATION THEREOF.]

H. RIGHT-OF-WAY EASEMENT EXECUTED BY BURTCY CRUMP, A WIDOW, TO NORTH COLLIN WATER SUPPLY CORPORATION, DATED OCTOBER 22, 1970, FILED APRIL 8, 1971, RECORDED IN/UNDER VOL 780 PAGE 555, OF THE REAL PROPERTY RECORDS OF COLLIN COUNTY, TEXAS.

[THIS ITEM IS APPLICABLE TO THE PARENT PARCEL BUT IT IS NOT PLOTTED HEREON BECAUSE THE DESCRIPTION OF THIS EASEMENT IS VAGUE AND THEREFORE, WE ARE NOT ABLE TO ASCERTAIN THE EXACT LOCATION THEREOF.]

I. TEMPORARY CONSTRUCTION EASEMENT EXECUTED BY RUBY N. CRUMP, TO MCKINNEY MUNICIPAL UTILITY DISTRICT NO. 1 OF COLLIN COUNTY, A TEXAS MUNICIPAL UTILITY DISTRICT, DATED AUGUST 23, 2017, FILED AUGUST 31, 2017, RECORDED IN/UNDER 20170831001170440, OF THE REAL PROPERTY RECORDS OF COLLIN COUNTY, TEXAS.

[THIS ITEM IS APPLICABLE TO THE PARENT PARCEL AND ACCESS EASEMENT, AND IS PLOTTED HEREON.]

J. DRAINAGE EASEMENT EXECUTED BY RUBY N. CRUMP, AN INDIVIDUAL, TO THE CITY OF MCKINNEY, A TEXAS MUNICIPAL CORPORATION, DATED AUGUST 23, 2017, FILED OCTOBER 5, 2017, RECORDED IN/UNDER 20171005001337430, OF THE REAL PROPERTY RECORDS OF COLLIN COUNTY, TEXAS.

[THIS ITEM IS APPLICABLE TO THE PARENT PARCEL AND ACCESS EASEMENT, AND IS PLOTTED HEREON.]



[Handwritten Signature]

NO.	DATE	REVISION
3.	01/29/25	COMMENTS
4.	2/26/25	COMMENTS
5.	3/27/25	COMMENTS
6.	4/24/25	LEASE AREA

* SPECIFIC PURPOSE SURVEY PREPARED BY:

POINT TO POINT LAND SURVEYORS

100 Governors Trace, Ste. 103
Peachtree City, GA 30269
(p) 678.565.4440 (f) 678.565.4497
(w) pointpointsurvey.com
Texas Registration NO. 10194197



SPECIFIC PURPOSE SURVEY
PREPARED FOR:



HEMPHILL

1305 N. LOUISVILLE AVENUE
TULSA, OK 74115

AMANDA FERGUSON

SITE NO. 1780

MEREDITH HART SURVEY,
ABSTRACT 371,
COLLIN COUNTY, TEXAS

DRAWN BY: RJH

CHECKED BY: JKL

APPROVED: D. MILLER

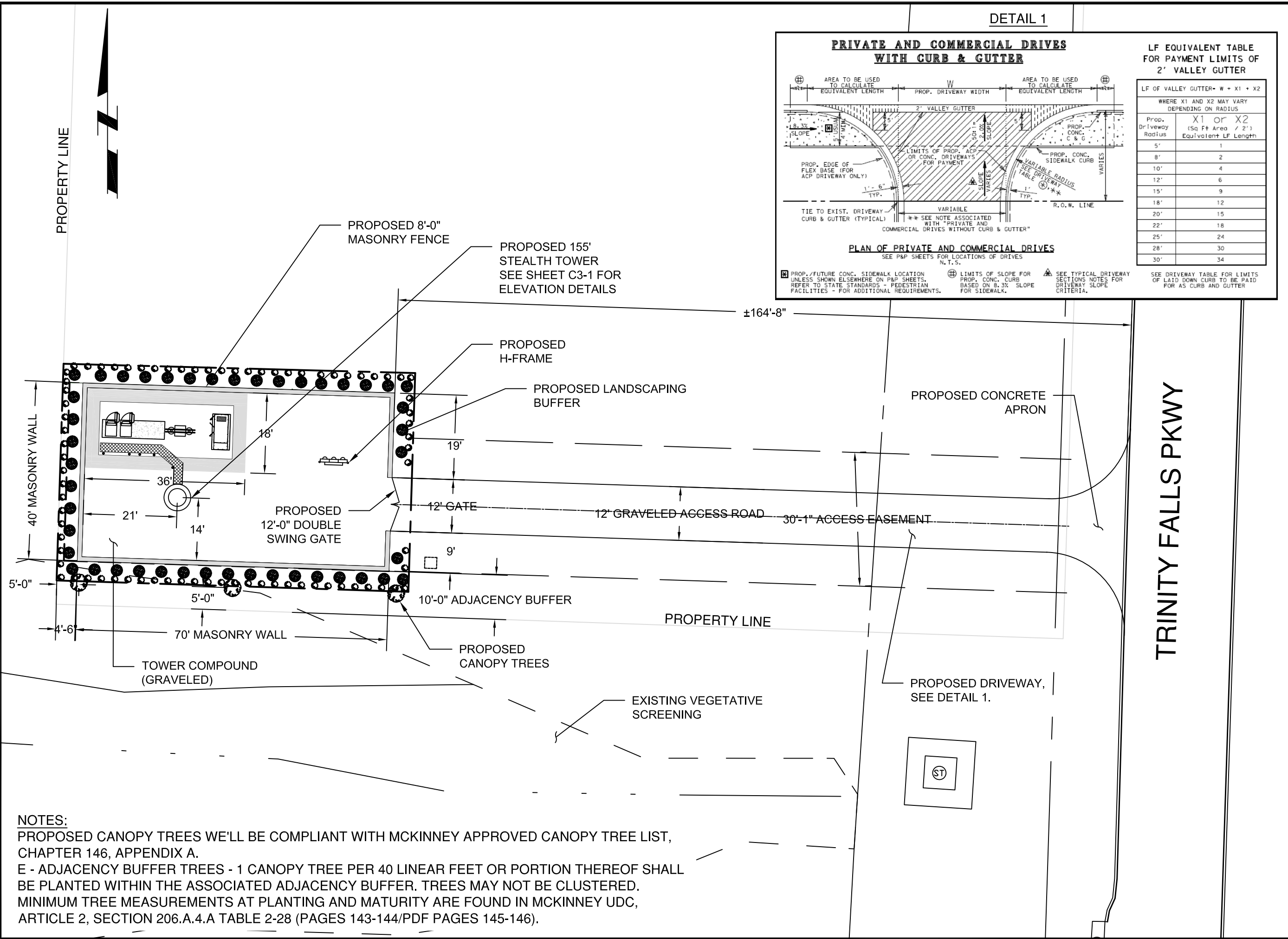
DATE: MARCH 25, 2024

P2P JOB #: 240451TX

SHEET:

3

OF 3



DETAIL 1

**PRIVATE AND COMMERCIAL DRIVES
WITH CURB & GUTTER**

PLAN OF PRIVATE AND COMMERCIAL DRIVES
SEE P&P SHEETS FOR LOCATIONS OF DRIVES N.T.S.

⊕ PROP./FUTURE CONC. SIDEWALK LOCATION UNLESS SHOWN ELSEWHERE ON P&P SHEETS. REFER TO STATE STANDARDS - PEDESTRIAN FACILITIES - FOR ADDITIONAL REQUIREMENTS.

⊕ LIMITS OF SLOPE FOR PROP. CONC. CURB BASED ON 8.3% SLOPE FOR SIDEWALK.

⚠ SEE TYPICAL DRIVEWAY SECTIONS NOTES FOR DRIVEWAY SLOPE CRITERIA.

**LF EQUIVALENT TABLE
FOR PAYMENT LIMITS OF
2' VALLEY GUTTER**

LF OF VALLEY GUTTER= W + X1 + X2
WHERE X1 AND X2 MAY VARY
DEPENDING ON RADIUS

Prop. Driveway Radius	X1 or X2 (Sq Ft Area / 2')	Equivalent LF Length
5'	1	
8'	2	
10'	4	
12'	6	
15'	9	
18'	12	
20'	15	
22'	18	
25'	24	
28'	30	
30'	34	

SEE DRIVEWAY TABLE FOR LIMITS OF LAID DOWN CURB TO BE PAID FOR AS CURB AND GUTTER

NOTES:
PROPOSED CANOPY TREES WE'LL BE COMPLIANT WITH MCKINNEY APPROVED CANOPY TREE LIST, CHAPTER 146, APPENDIX A.
E - ADJACENCY BUFFER TREES - 1 CANOPY TREE PER 40 LINEAR FEET OR PORTION THEREOF SHALL BE PLANTED WITHIN THE ASSOCIATED ADJACENCY BUFFER. TREES MAY NOT BE CLUSTERED. MINIMUM TREE MEASUREMENTS AT PLANTING AND MATURITY ARE FOUND IN MCKINNEY UDC, ARTICLE 2, SECTION 206.A.4.A TABLE 2-28 (PAGES 143-144/PDF PAGES 145-146).

HEMPHILL®
1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200

**SPECIALTY TELECOMMUNICATIONS
SERVICES, LLC**
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO: 1780
PROJECT NAME: AMANDA FERGUSON
911 ADDRESS: TBD
DRAWN BY: LSV
CHECKED BY: RGH/MK/SLT

ISSUED FOR:
APPROVAL

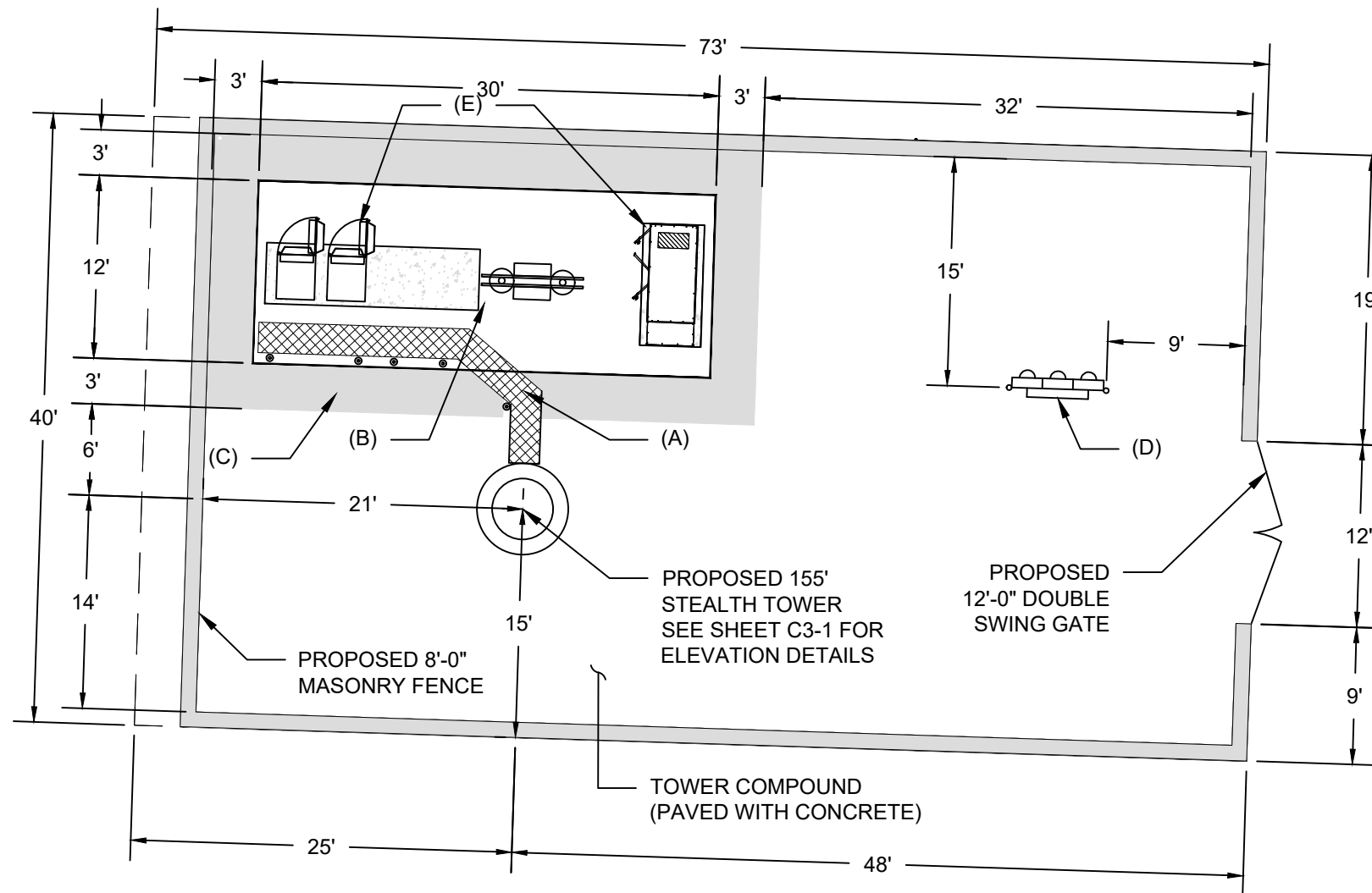
REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL

ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM. NO.: F-16740
REGISTRATION NO.: 149870

SCALE
1"=20'

**OVERALL
SITE PLAN**

SHEET NUMBER:	REVISION:
C2-1	0



NOTES:

1. ALL COMPONENTS SHOWN ARE NEW CONSTRUCTION
2. PLACEMENT OF VERIZON LEASE AREA, AND HEMPHILL H-FRAME, WITHIN THE COMPOUND IS APPROXIMATE AND MAY VARY DEPENDING ON SITE CONDITIONS AT TIME OF CONSTRUCTION
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF APPROPRIATE EROSION CONTROL MEASURES, INCLUDING SILT FENCES, ON THE DOWN SLOPE SIDES OF ALL SOIL DISTURBING ACTIVITIES. SEE SHEET C4-1 DETAIL 3
4. REFER TO SHEETS C6-1 TO C6-4 FOR SCREENING WALL DETAILS
5. REFER TO SHEET L1-1 FOR LANDSCAPING PLAN

NOTES:

- A. PROPOSED VERIZON 3'-0" WIDE WAVEGUIDE BRIDGE SEE SHEET C3-3 DETAIL 1
- B. PROPOSED VERIZON 12'-0"x30'-0" LEASE AREA
- C. PROPOSED VERIZON 3'-0" WIDE GROUND RING AREA
- D. PROPOSED H-FRAME SEE SHEET E2-1 DETAILS 1 & 2
- E. PROPOSED VERIZON EQUIPMENT ON CONCRETE PAD



HEMPHILL

1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



**SPECIALTY TELECOMMUNICATIONS
SERVICES, LLC**
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO:	1780
PROJECT NAME:	AMANDA FERGUSON
911 ADDRESS:	TBD
DRAWN BY:	LSV
CHECKED BY:	RGH/MK/SLT

ISSUED FOR:

APPROVAL

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL



ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM. NO.: F-16740
REGISTRATION NO.: 149870

SCALE

3/32" = 1'-0"

**COMPOUND
LAYOUT**

SHEET NUMBER: REVISION:

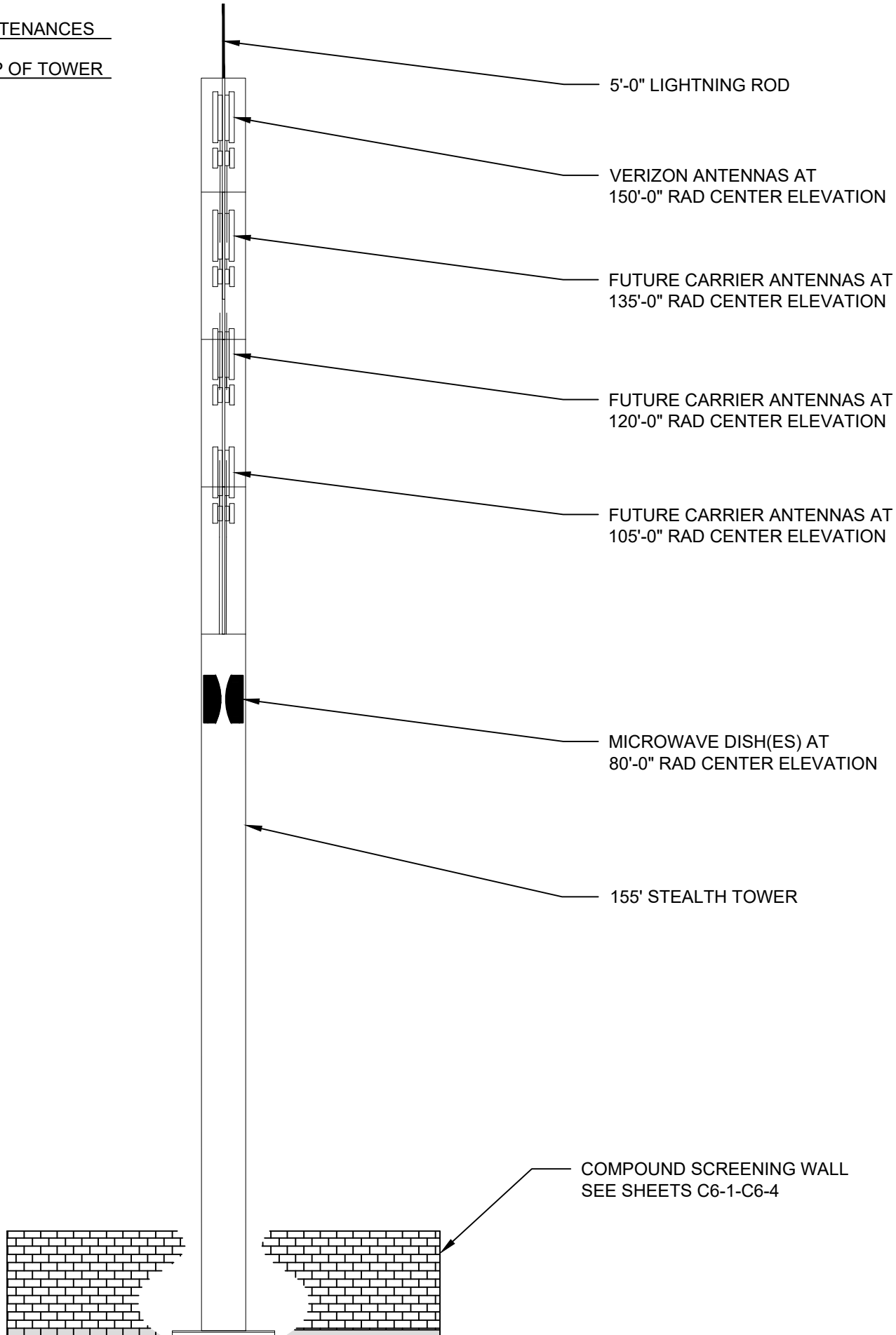
C2-2

0

THESE DRAWINGS ARE NOT INTENDED TO REFLECT THE STRUCTURAL INTEGRITY OF THE TOWER. THE PROPOSED ANTENNAS AND TRANSMISSION LINES SHOWN ARE REPRESENTATIVE IN NATURE AND DO NOT REFLECT THE ACTUAL CONFIGURATIONS REQUIRED. THE CONTRACTOR SHALL REFER TO THE STRUCTURAL ANALYSIS OF THIS TOWER SITE FOR THE APPROVED LOCATION AND CONFIGURATION OF ALL ANTENNAS AND TRANSMISSION LINES. ALL ANTENNAS MUST BE MOUNTED AND THE TRANSMISSION LINES CONFIGURED IN STRICT ACCORDANCE WITH THE STRUCTURAL ANALYSIS.

160'-0" TOTAL HEIGHT WITH APPURTENANCES

155'-0" TOP OF TOWER



HEMPHILL

1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



**SPECIALTY TELECOMMUNICATIONS
SERVICES, LLC**
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO:	1780
PROJECT NAME:	AMANDA FERGUSON
911 ADDRESS:	TBD
DRAWN BY:	LSV
CHECKED BY:	RGH/MK/SLT

ISSUED FOR:

APPROVAL

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL



ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM. NO.: F-16740
REGISTRATION NO.: 149870

SCALE

N.T.S.

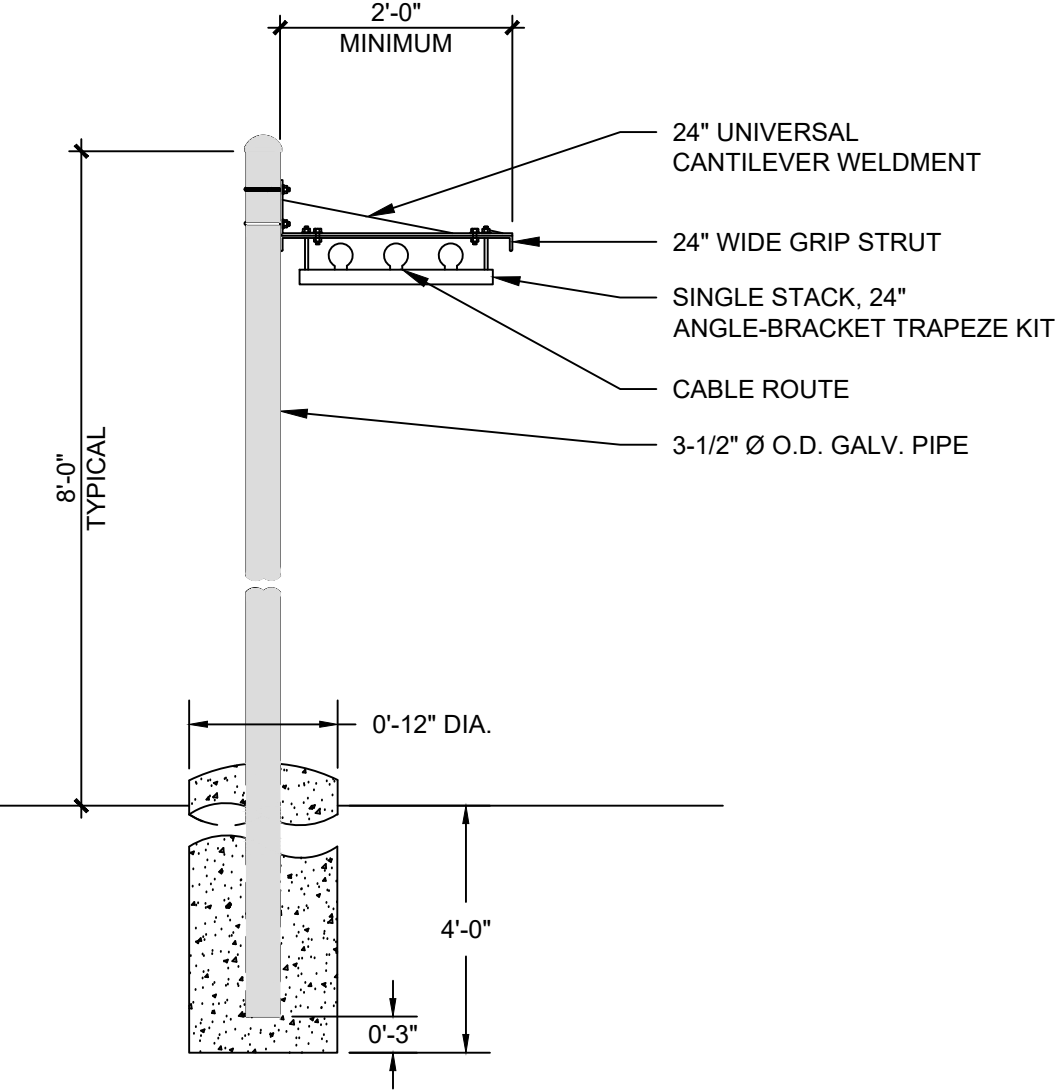
**TOWER
ELEVATION**

SHEET NUMBER: REVISION:

C3-1

0

POSTS TO BE SPACED MINIMUM 4'-0" O.C. AND MAXIMUM 10'-0" O.C.



WAVEGUIDE BRIDGE DETAIL

SCALE: N.T.S.



HEMPHILL

1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



SPECIALTY TELECOMMUNICATIONS SERVICES, LLC
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO:	1780
PROJECT NAME:	AMANDA FERGUSON
911 ADDRESS:	TBD
DRAWN BY:	LSV
CHECKED BY:	RGH/MK/SLT

ISSUED FOR:
APPROVAL

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL

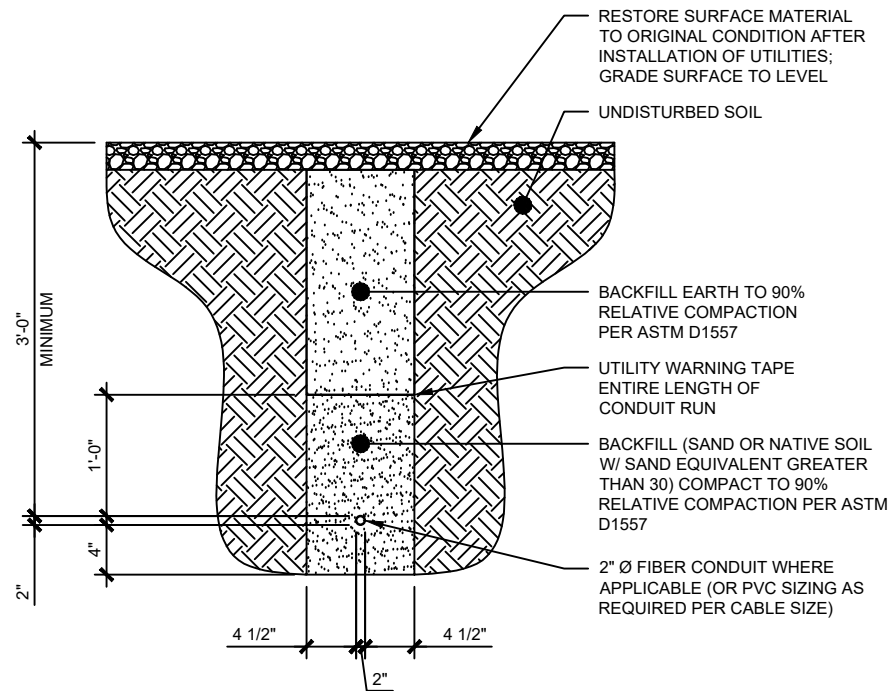


ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM. NO.: F-16740
REGISTRATION NO.: 149870

SCALE
N.T.S.

GROUND EQUIPMENT DETAILS

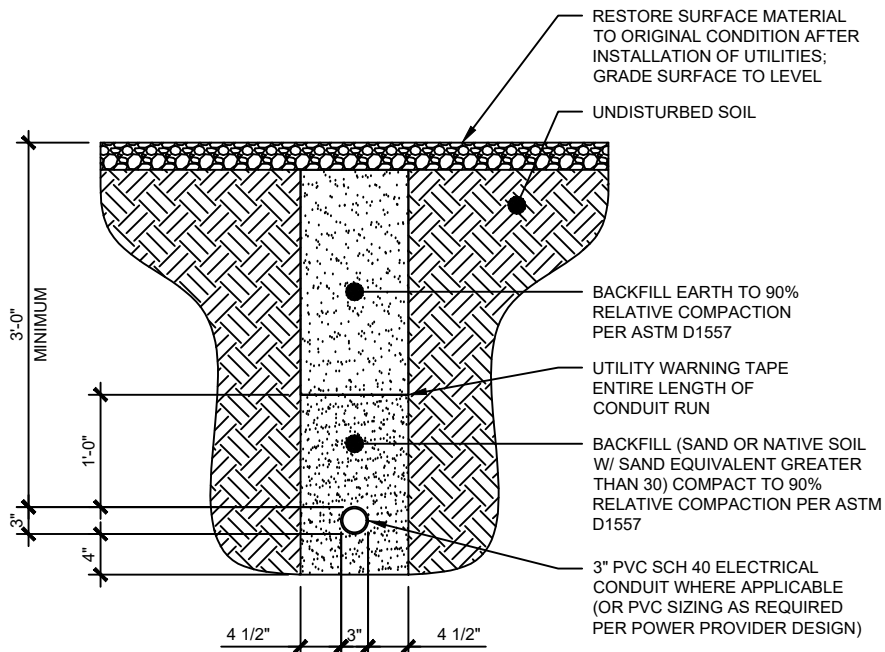
SHEET NUMBER:	REVISION:
C3-3	0



FIBER TRENCH DETAIL

SCALE: N.T.S.

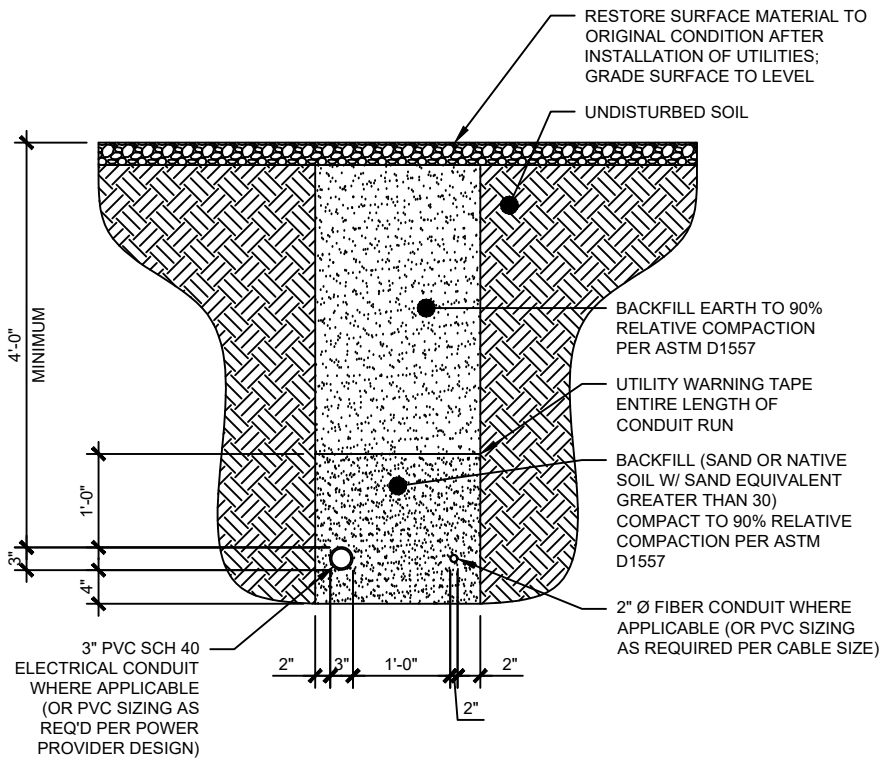
1
C3-6



ELECTRICAL TRENCH DETAIL

SCALE: N.T.S.

2
C3-6



DUAL TRENCH DETAIL

SCALE: N.T.S.

3
C3-6



HEMPHILL

1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



**SPECIALTY TELECOMMUNICATIONS
SERVICES, LLC**
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO: 1780
PROJECT NAME: AMANDA FERGUSON
911 ADDRESS: TBD
DRAWN BY: LSV
CHECKED BY: RGH/MK/SLT

ISSUED FOR:

APPROVAL

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL



ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM. NO.: F-16740
REGISTRATION NO.: 149870

SCALE

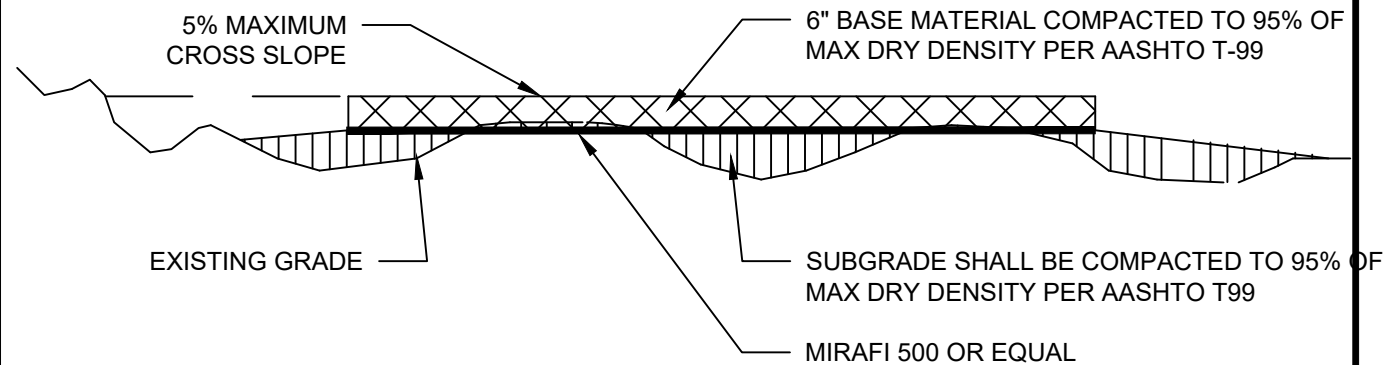
N.T.S.

**TRENCHING
DETAILS**

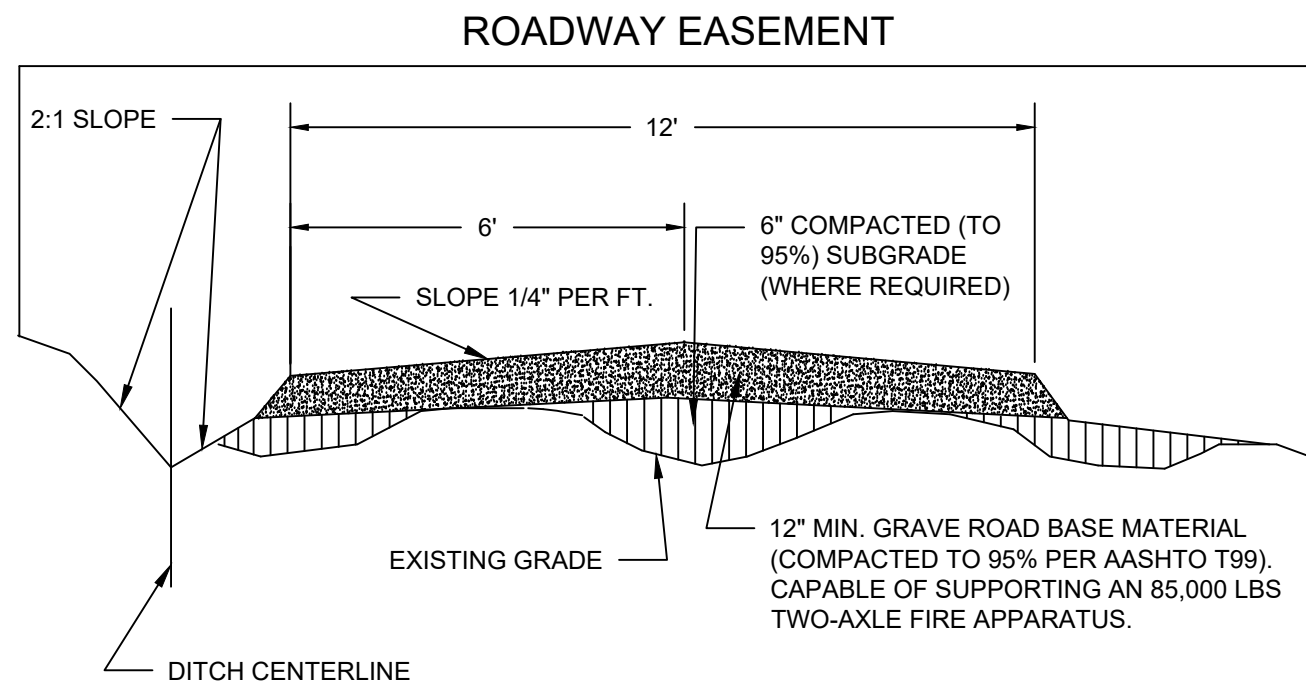
SHEET NUMBER: REVISION:

C3-6

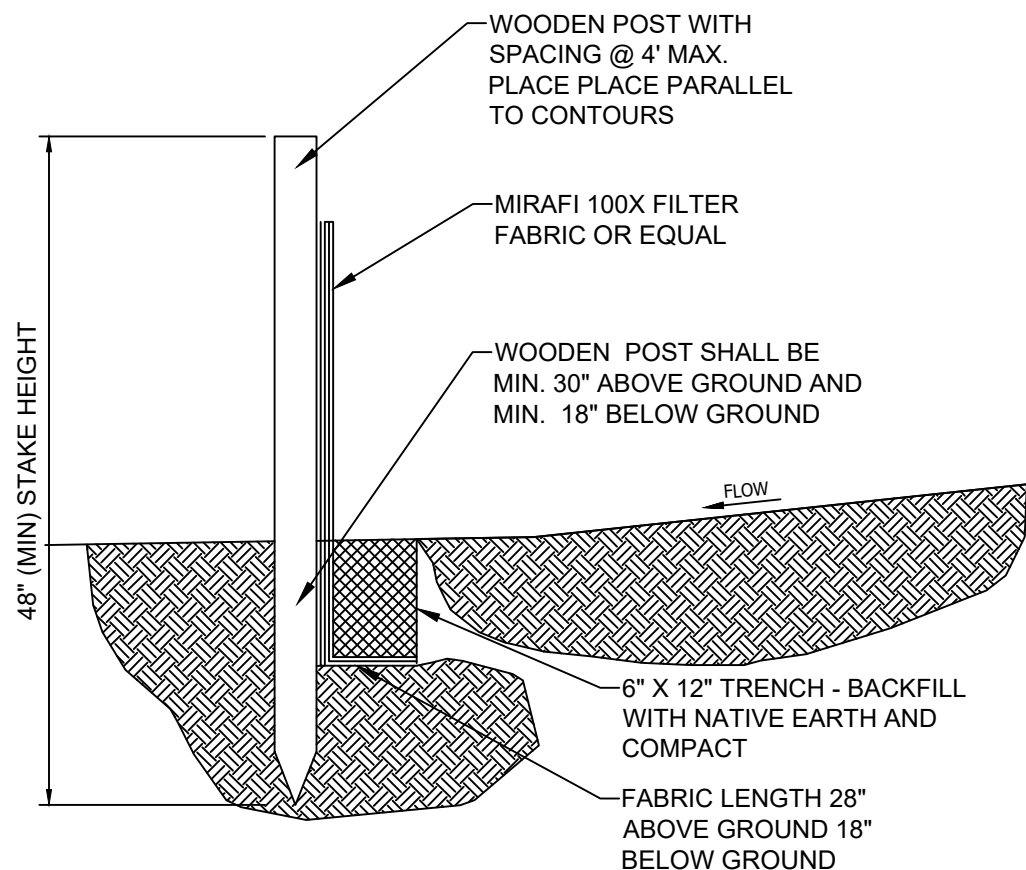
0



COMPOUND DETAIL
SCALE: N.T.S.



ROADWAY DETAIL
SCALE: N.T.S.



SILT FENCE DETAIL
SCALE: N.T.S.



CONSTRUCTION SEQUENCE

- 1- INSTALLATION OF SILT FENCE - PRIOR TO ANY EARTH MOVING OPERATIONS, AS REQUIRED.
- 2- INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE.
- 3- STRIPPING AND STOCK PILING OF TOPSOIL AND ROUGH GRADING. TEMPORARY STABILIZATION WITHIN 15 DAYS.
- 4- CONSTRUCTION OF UNDERGROUND IMPROVEMENTS.
- 5- ROADWAY TO MATCH EXISTING GRADE, OR TO BE DESIGNED WITH APPROPRIATE NUMBER AND SIZE OF CULVERTS (TYP. 12")
- 6- DITCH NOT NECESSARY IF ROADWAY IS DESIGNED TO DIRECT WATER FLOW TOWARDS ADJACENT DETENTION EAST OF ACCESS EASEMENT.

NOTES:

- THE 12" THICK AGGREGATE-SURFACE (NON-BITUMINOUS) PAVEMENT SHALL BE CONSTRUCTED PER THE FOLLOWING CRITERIA:
1. SUBGRADE SHALL BE COMPACTED A MINIMUM 6" BELOW BOTTOM OF NEW AGGREGATE PAVEMENT BASE TO 100% DRY DENSITY PER AASHTO T-99.
 2. THE SUBGRADE SHALL BE PROOF-ROLLED PER TXDOT SPECIFICATION ITEM 216 WITH A MECHANICAL ROLLER IN ORDER TO IDENTIFY WEAK SPOTS. THESE SPOTS SHALL BE EXCAVATED, REPLACED WITH AN APPROVED AGGREGATE BASE, AND COMPACTED TO 100% DRY DENSITY PER AASHTO T-99.
 3. THE 12" AGGREGATE BASE (NON-BITUMINOUS) PAVEMENT COURSE SHALL BE PLACED AND COMPACTED TO 100% DRY DENSITY PER AASHTO -99.
 4. AGGREGATE MATERIAL SHALL MEET TXDOT SPECIFICATION FOR AGGREGATE BASE COARSE (ABC) WITH 100% PASSING A 1" SIEVE.
 5. THE CONTRACTOR MAY COMPACT 6" OF AGGREGATE BASE IN A SINGLE LIFT PROVIDED HE DEMONSTRATES THE ABILITY TO ACHIEVE 100% DRY DENSITY PER AASHTO T-99.
 6. ALL OTHER ROAD CONSTRUCTION ITEMS INCLUDING BUT NOT LIMITED TO SITE PREPARATION, MATERIAL DISPOSAL, ETC. SHALL BE PERFORMED PER THE LATEST EDITION OF THE TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES.



HEMPHILL

1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



SPECIALTY TELECOMMUNICATIONS SERVICES, LLC
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO:	1780
PROJECT NAME:	AMANDA FERGUSON
911 ADDRESS:	TBD
DRAWN BY:	LSV
CHECKED BY:	RGH/MK/SLT

ISSUED FOR:
APPROVAL

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL



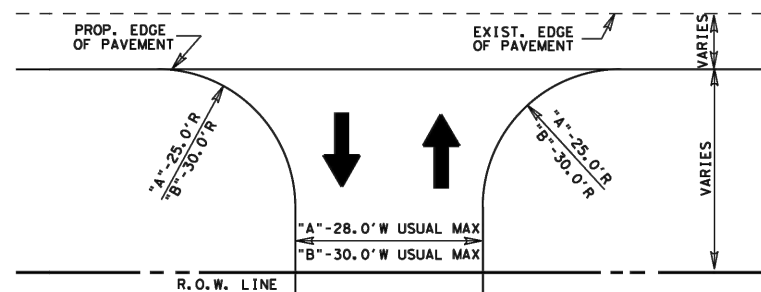
ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM. NO.: F-16740
REGISTRATION NO.: 149870

SCALE
N.T.S.

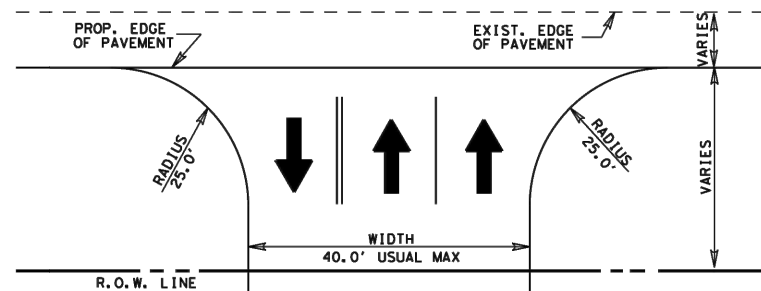
ROADWAY AND COMPOUND DETAILS

SHEET NUMBER:	REVISION:
C4-1	0

DESIGNS FOR TWO-WAY COMMERCIAL DRIVEWAYS

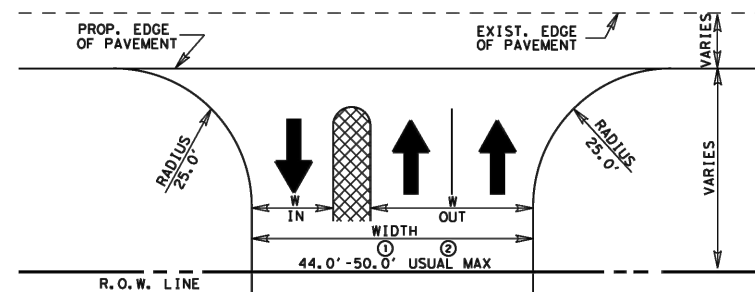


- "A"- ONE ENTRY LANE AND ONE EXIT LANE, FEWER THAN 4 LARGE VEHICLES PER HOUR
- "B"- ONE ENTRY LANE AND ONE EXIT LANE, 4 OR MORE SINGLE UNIT VEHICLES PER HOUR
- ① - DRIVEWAY DESIGNS FOR LARGER VEHICLES WILL BE CONSIDERED ON A CASE BY CASE BASIS

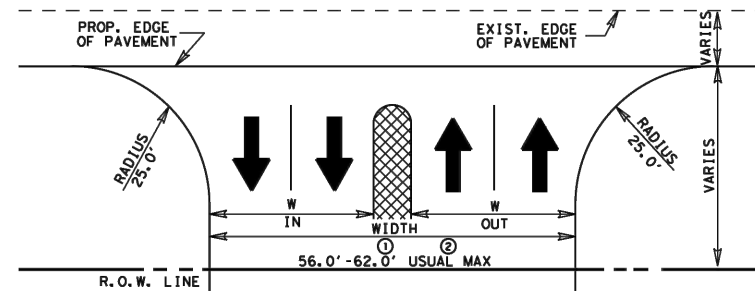


ONE ENTRY LANE AND TWO EXIT LANES (WITHOUT DIVIDERS)

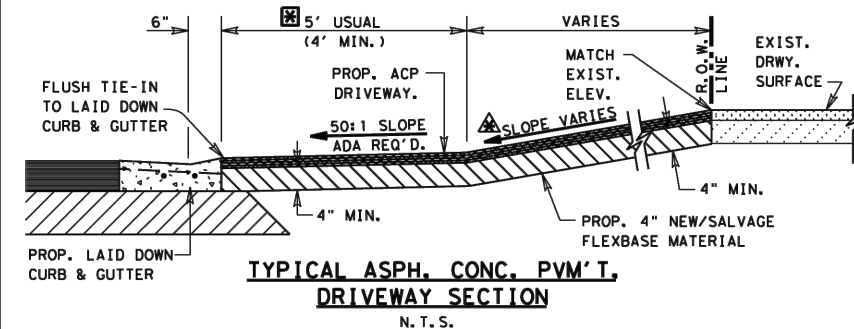
DESIGNS FOR TWO-WAY COMMERCIAL DRIVEWAYS



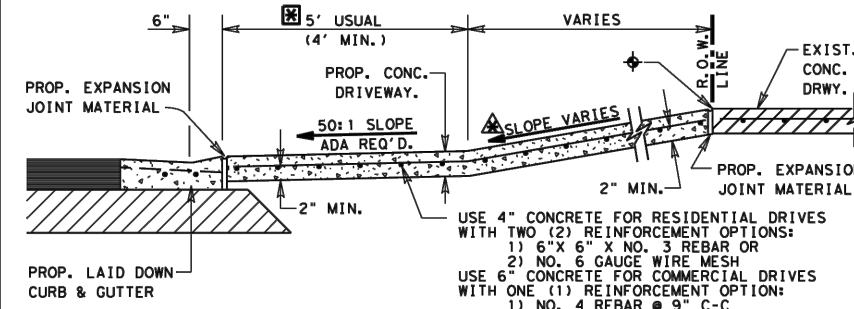
- ① - 4.0' WIDE DIVIDER, FACE-TO-FACE CURBS
- ② - 10.0' WIDE DIVIDER, FACE-TO-FACE CURBS
- ONE ENTRY LANE AND TWO EXIT LANES (WITH A DIVIDER)



- ① - 4.0' WIDE DIVIDER, FACE-TO-FACE CURBS
- ② - 10.0' WIDE DIVIDER, FACE-TO-FACE CURBS
- TWO ENTRY LANES AND TWO EXIT LANES (WITH A DIVIDER)



TYPICAL ASPH. CONC. PVM'T. DRIVEWAY SECTION
N.T.S.



TYPICAL CONCRETE DRIVEWAY SECTION
N.T.S.

CONCRETE SHALL BE SAW CUT TO THE LIMITS OF REMOVAL WHERE APPLICABLE.

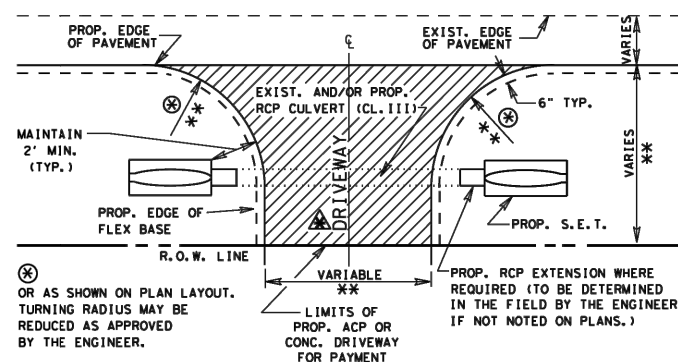
PROP./FUTURE SIDEWALK CROSSING LOCATION UNLESS SHOWN ELSEWHERE ON P&P SHEETS. SEE P&P SHEETS FOR PROP. SIDEWALK LOCATION IF SIDEWALKS ARE INCLUDED AS PART OF PROJECT. REFER TO STATE STANDARDS - PEDESTRIAN FACILITIES - FOR ADDITIONAL REQUIREMENTS.

ENTRANCE'S BASE AND SURFACING MAY BE EXTENDED BEYOND R.O.W. LINE AS REQUIRED TO MEET EXISTING GRADE IN A SATISFACTORY MANNER OF WHICH NO STEEPER THAN 12:1 FOR COMMERCIAL DRIVEWAY AND 8:1 FOR RESIDENTIAL DRIVEWAY SLOPE WILL BE CONSTRUCTED.

PROP. DWY ALGEBRAIC DIFFERENCE TABLE	
COMMERCIAL DRIVEWAYS @ A = 6% MAX.	
RESIDENTIAL DRIVEWAYS @ A = 8% MAX.	

PROPOSED DRIVEWAY SLOPE TABLE	
COMMERCIAL DRIVEWAYS @ 12:1 MAX.	
RESIDENTIAL DRIVEWAYS @ 8:1 MAX.	

PRIVATE AND COMMERCIAL DRIVES WITHOUT CURB & GUTTER

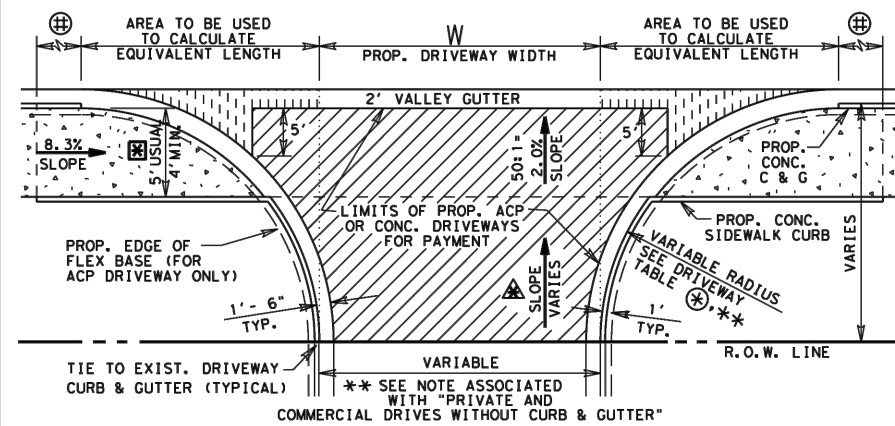


PLAN OF PRIVATE AND COMMERCIAL DRIVES

** FOR PRIVATE RESIDENTIAL DRIVES, TRY TO MATCH EXISTING WITH A MINIMUM WIDTH OF 12 FT. AND A MAXIMUM WIDTH OF 24 FT. WITH 15 FT. USUAL RADIUS. FOR COMMERCIAL DRIVES, USE ABOVE COMMERCIAL DRIVEWAY DETAILS.

SEE TYPICAL DRIVEWAY SECTIONS NOTES FOR DRIVEWAY SLOPE CRITERIA.

PRIVATE AND COMMERCIAL DRIVES WITH CURB & GUTTER



PLAN OF PRIVATE AND COMMERCIAL DRIVES
SEE P&P SHEETS FOR LOCATIONS OF DRIVES
N.T.S.

PROP./FUTURE CONC. SIDEWALK LOCATION UNLESS SHOWN ELSEWHERE ON P&P SHEETS. REFER TO STATE STANDARDS - PEDESTRIAN FACILITIES - FOR ADDITIONAL REQUIREMENTS.

LIMITS OF SLOPE FOR PROP. CONC. CURB BASED ON 8.3% SLOPE FOR SIDEWALK.

SEE TYPICAL DRIVEWAY SECTIONS NOTES FOR DRIVEWAY SLOPE CRITERIA.

LF EQUIVALENT TABLE FOR PAYMENT LIMITS OF 2' VALLEY GUTTER

LF OF VALLEY GUTTER = W + X1 + X2

WHERE X1 AND X2 MAY VARY DEPENDING ON RADIUS

Prop. Driveway Radius	X1 or X2 (Sq Ft Area / 2')	Equivalent LF Length
5'	1	
8'	2	
10'	4	
12'	6	
15'	9	
18'	12	
20'	15	
22'	18	
25'	24	
28'	30	
30'	34	

SEE DRIVEWAY TABLE FOR LIMITS OF LAID DOWN CURB TO BE PAID FOR AS CURB AND GUTTER

DRIVEWAY TYPES

TY PB-1
EXIST. PRIVATE OR COMMERCIAL DRIVEWAYS TO BE CONSTRUCTED AS SHOWN WITH 4" NEW AND/OR SALVAGE FLEX. BASE, PRIMED AND SURFACED WITH 171#SY ACP. (HMA-D PG 64-22 SAC B MEETING ITEM 340)

CONCRETE (RESIDENTIAL)

EXIST. PRIVATE DRIVEWAYS TO BE CONSTRUCTED AS SHOWN WITH 4" CONCRETE. TO BE PAID FOR BY THE SQ.YD.

CONCRETE (COMMERCIAL)

EXIST. BUSINESS DRIVEWAYS TO BE CONSTRUCTED AS SHOWN WITH 6" CONCRETE. TO BE PAID FOR BY THE SQ.YD.

© TxDOT 2021

PHARR DISTRICT STANDARD



TEXAS DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS
PRIVATE
(RESIDENTIAL-COMMERCIAL)

REV. 08/22

DRIVEWAY2.DGN

STATE	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
TEXAS	21				



HEMPHILL

1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



SPECIALTY TELECOMMUNICATIONS
SERVICES, LLC
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO: 1780
PROJECT NAME: AMANDA FERGUSON
911 ADDRESS: TBD
DRAWN BY: LSV
CHECKED BY: RGH/MK/SLT

ISSUED FOR:

APPROVAL

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL



ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM NO.: F-16740
REGISTRATION NO.: 149870

SCALE

N.T.S.

ROADWAY AND
COMPOUND DETAILS

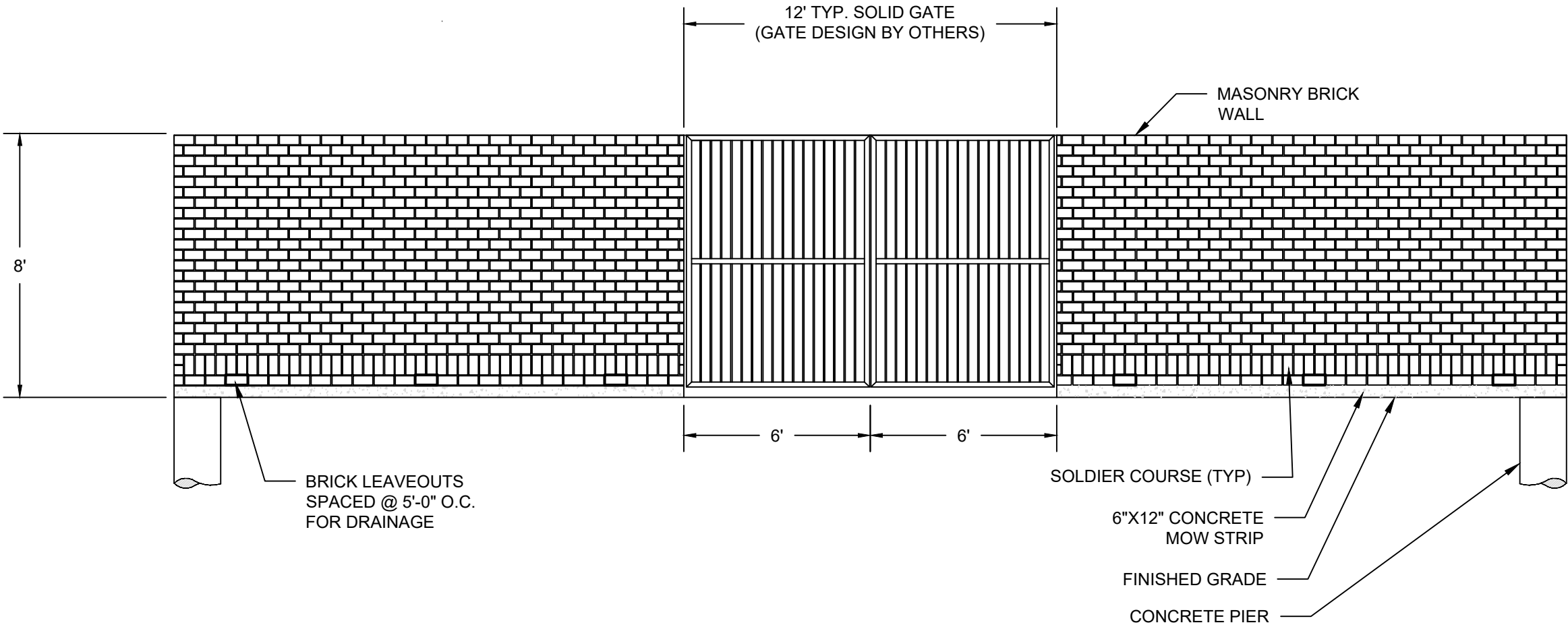
SHEET NUMBER:

REVISION:

C4-2

0

- NOTES:
- 1. REFER TO SHEETS C6-2 AND C6-4 FOR ADDITIONAL INFORMATION
 - 2. PROPOSED WALL TO FEATURE 8" BLOCK WITH 4" FACADE TYPICAL.



ELEVATION VIEW

SCALE: N.T.S.

1
C6-1

- NOTES:
- 1. PROPOSED WALL TO FEATURE 8" BLOCK WITH 4" FACADE TYPICAL.



HEMPHILL

1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



**SPECIALTY TELECOMMUNICATIONS
SERVICES, LLC**
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO:	1780
PROJECT NAME:	AMANDA FERGUSON
911 ADDRESS:	TBD
DRAWN BY:	LSV
CHECKED BY:	RGH/MK/SLT

ISSUED FOR:

APPROVAL

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL



ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM. NO.: F-16740
REGISTRATION NO.: 149870

SCALE

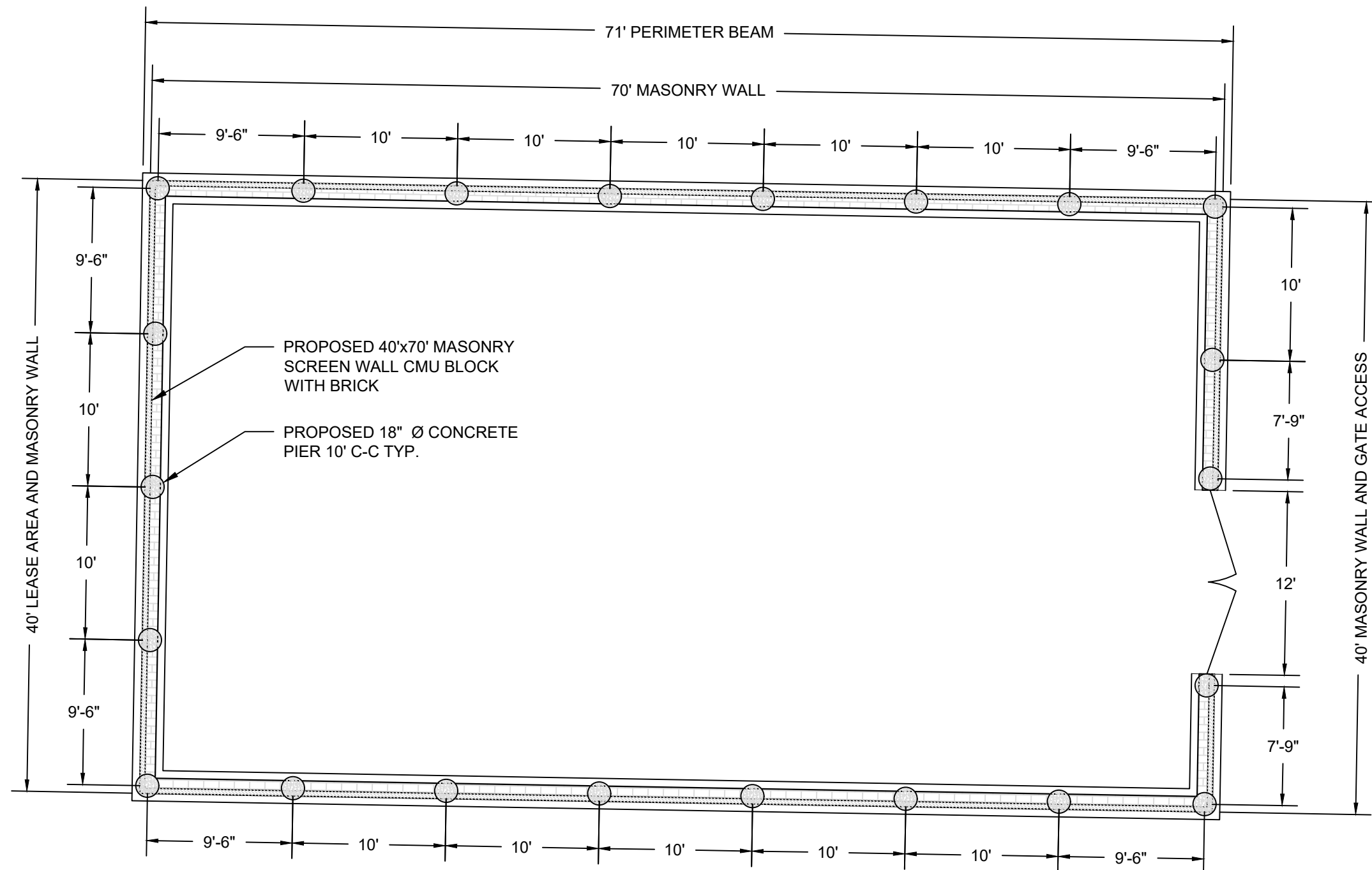
N.T.S.

**COMPOUND WALL
DETAILS**

SHEET NUMBER: REVISION:

C6-1

0



SCREEN WALL PLAN
SCALE: N.T.S.

1
C6-2



HEMPHILL

1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



**SPECIALTY TELECOMMUNICATIONS
SERVICES, LLC**
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO:	1780
PROJECT NAME:	AMANDA FERGUSON
911 ADDRESS:	TBD
DRAWN BY:	LSV
CHECKED BY:	RGH/MK/SLT

ISSUED FOR:

APPROVAL

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL



ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM. NO.: F-16740
REGISTRATION NO.: 149870

SCALE

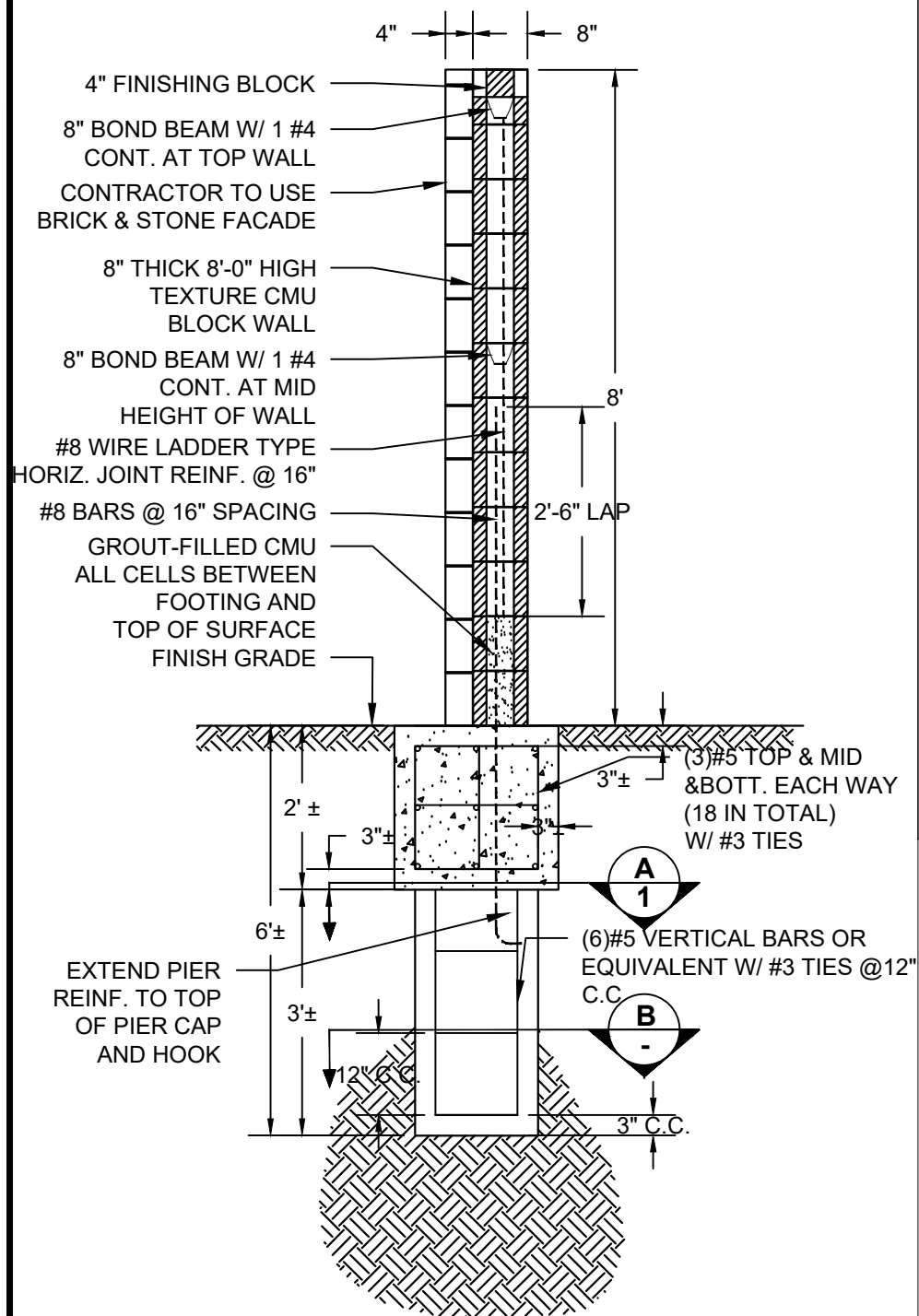
1/8" = 1'-0"

**COMPOUND WALL
DETAILS**

SHEET NUMBER: REVISION:

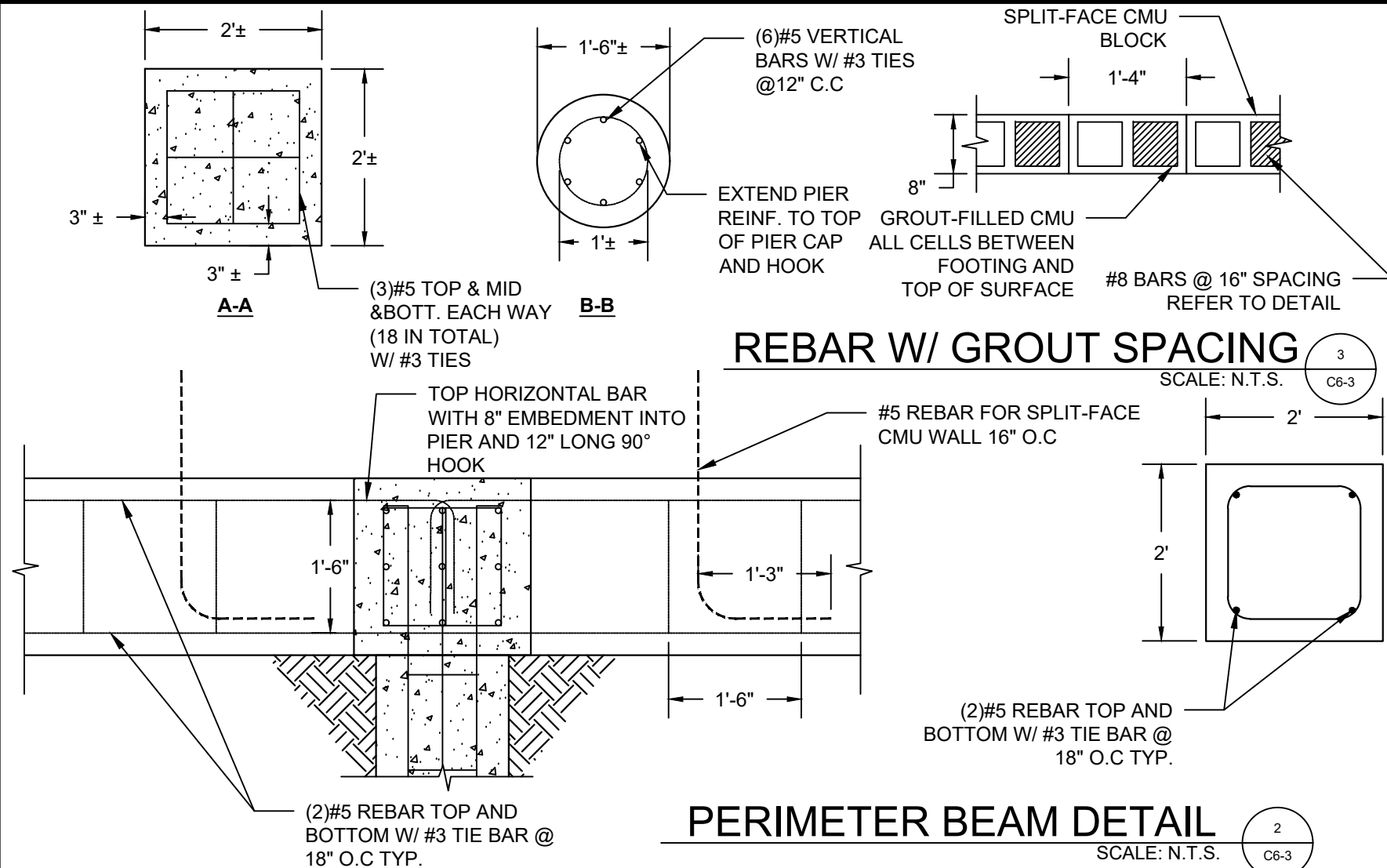
C6-2

0



PIER FOUNDATION DETAIL

SCALE: N.T.S.



1. TEXTURED MASONRY BLOCK WALL LAYOUT REFER TO C6-1.
2. ALL WORK SHALL BE DONE BY A CONTRACTOR EXPERIENCED IN SIMILAR WORK.
3. CONTACT THE ENGINEER IF THE FIELD CONDITIONS VARY FROM DESIGN ASSUMPTIONS.
4. ALL CONCRETE SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 4000 PSI.
5. ALL CONCRETE WORK SHALL CONFORM TO ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
6. CONCRETE COVERAGE OVER ALL STEEL SHALL CONFORM TO ACI 318 BUILDING CODE MINIMUM REQUIREMENTS AND AS SHOWN ON STRUCTURAL DETAILS.
7. ALL REINFORCING STEEL BARS SHALL BE DOMESTIC, NEW BILLET STEEL, ASTM A-615, GRADE 60. REINFORCING SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH ACI 315-LATEST EDITION - "MANUAL OF STANDARD FOR DETAILING REINFORCED CONCRETE."
8. WELDING OF REINFORCING BARS AND DOWEL BARS IS PROHIBITED UNLESS OTHERWISE APPROVED BY ENGINEER.
9. PRIOR TO THE EXCAVATION, CHECK AREA FOR LOCATION OF UNDERGROUND PIPES, CABLES, ETC.
10. NO LOOSE DIRT OR FOREIGN MATERIAL SHOULD REMAIN AT THE BOTTOM OF THE EXCAVATION.
11. DESIGN IS BASED ON THE ASSUMPTION THAT THE FINISHED GRADE WILL BE THE SAME AS EXISTING GRADE. ANY CHANGES TO THIS SHOULD BE NOTIFIED TO THE STRUCTURAL ENGINEER.
12. ALL OSHA TRENCHING GUIDELINES SHOULD BE FOLLOWED. ALL SAFETY & EXCAVATION PROCEDURES SHOULD BE ESTABLISHED BEFORE CONSTRUCTION.
13. USE BONDING AGENT BEFORE THE SECOND POUR IF CONSTRUCTION JOINTS ARE USED AT THE BASE OF THE PEDESTAL.
14. CONCRETE SHALL BE PLACED INTO EXCAVATION WITHIN 48-96 HOURS OF EXCAVATION WITH THE USE OF A CHUTE OR HOPPER DEVICE TO DIRECT THE CONCRETE TO FALL WITHIN THE CENTER OF THE STEEL CAGE. CONCRETE SLUMP SHALL NOT BE LESS THAN 4" NOR MORE THAN 7". CONCRETE SHALL NOT BE ALLOWED TO HIT THE STEEL CAGE WHICH WOULD CAUSE SEGREGATION OF THE MATERIAL.
15. PROPERLY COMPACT THE CONCRETE BY VIBRATING IN ACCORDANCE TO ACI 309 "STANDARD PRACTICE FOR CONSOLIDATION OF CONCRETE."
16. REFER TO SITE PLAN FOR KIOSK ORIENTATION AND LOCATION.
17. PROPER SPACING DEVICES SHOULD BE USED FOR THE STEEL TO ACHIEVE THE PROPER CLEARANCE FROM THE SOIL.
18. COMPACT BACKFILL TO 95% MAXIMUM DRY DENSITY OF AT LEAST 105 PCF AS DETERMINED BY STANDARD PROCTOR (ASTM D698). ALL FILL MATERIAL SHOULD BE FREE OF DEBRIS, LARGE ROCKS AND WASTE MATTER AND SHALL BE PLACED AT OR NEAR THE OPTIMUM MOISTURE CONTENT.



HEMPHILL

1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



SPECIALTY TELECOMMUNICATIONS SERVICES, LLC
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO: 1780
PROJECT NAME: AMANDA FERGUSON
911 ADDRESS: TBD
DRAWN BY: LSV
CHECKED BY: RGH/MK/SLT

ISSUED FOR:

APPROVAL

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL



ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM. NO.: F-16740
REGISTRATION NO.: 149870

SCALE

N.T.S.

**COMPOUND WALL
DETAILS**

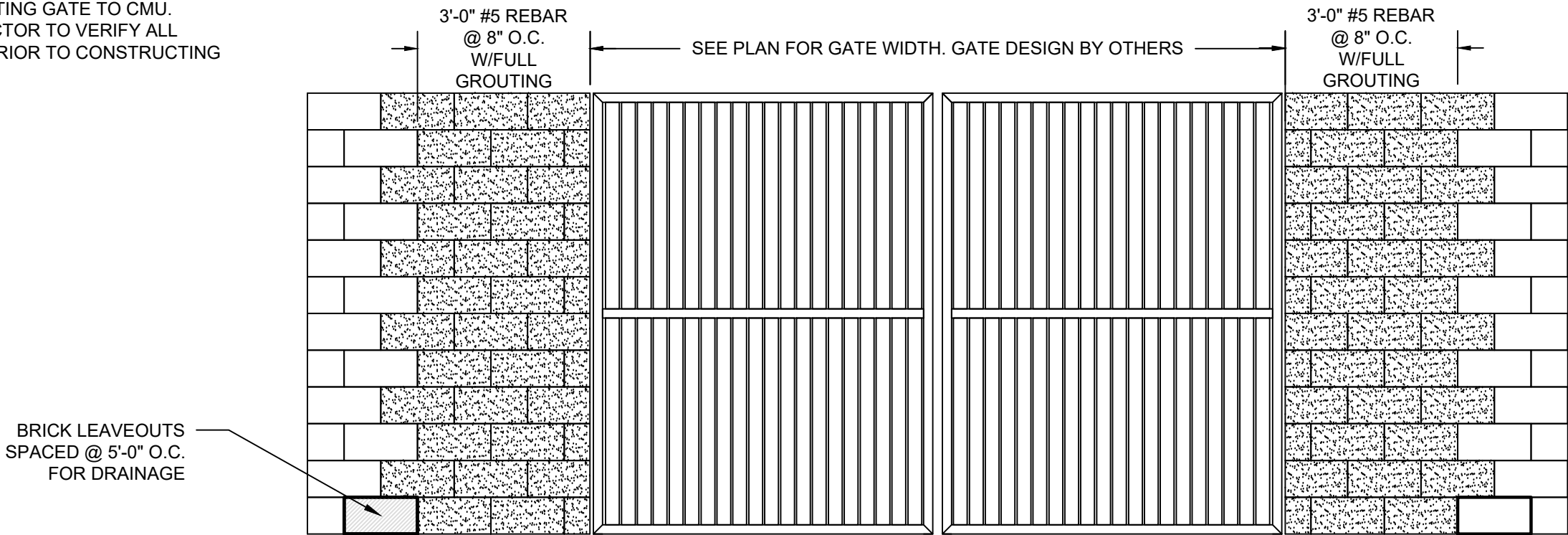
SHEET NUMBER: REVISION:

C6-3

0

NOTE:

1. GENERAL CONTRACTOR TO VERIFY WITH CUSTOMER EXACT TYPE AND LOCATION OF HINGES FOR MOUNTING GATE TO CMU.
2. GENERAL CONTRACTOR TO VERIFY ALL GATE DIMENSION PRIOR TO CONSTRUCTING GATE



MASONRY SCREEN WALL DETAILS INTERIOR VIEW

SCALE: N.T.S.



MASONRY

1. MASONRY STRENGTH
 - A. HOLLOW CONCRETE MASONRY UNITS: GRADE N, LIGHTWEIGHT WITH A COMPRESSIVE STRENGTH OF F'M = 1500 PSI ON THE NET AREA.
 - B. GROUT: 2000 PSI MINIMUM 28-DAY COMPRESSIVE STRENGTH. VIBRATE GROUT IMMEDIATELY AFTER POURING AND AGAIN AFTER 5 MINUTES. GROUT SHALL CONFORM TO ASTM C476 AND UBC 2103. MIX GROUT FOR AT LEAST FIVE MINUTES AND UNTIL MIX HAS BEEN ATTAINED. GROUT SHALL HAVE SUFFICIENT WATER ADDED TO PRODUCE A CONSISTENCY FOR POURING WITHOUT SEGREGATION. USE GROUT WITHIN 1.5 HOURS OF ADDITION OF MIXING WATER.
 - C. MORTAR: CEMENT-LIME TYPES, 1800 PSI MINIMUM 28-DAY COMPRESSIVE STRENGTH. CONFORM TO UBC 2103.
 - D. 4000 PSI STRENGTH CONCRETE AT 28 DAYS' 3" TO 5" SLUMP.
2. LAY UNITS IN RUNNING BOND. CORNERS SHALL HAVE A STANDARD BOND BY OVERLAPPING UNITS.
3. MAXIMUM GROUT LIFT WITHOUT CLEAN-OUTS SHALL BE 4'-0".
4. TIE VERTICAL REINFORCING AT EACH END OF THE BAR AND AT 4'-0" MAXIMUM VERTICAL SPACING USING SINGLE WIRE LOOP TIES AS MANUFACTURED BY A.A. WIRE PRODUCTS COMPANY OR APPROVED ALTERNATE.
5. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF EXPANSION AND CONTROL JOINTS.
6. GROUT SOLID ALL WALLS IN CONTACT WITH EARTH, RETAINING WALLS, STEM WALLS, AND AS NOTED ON DRAWINGS.
7. GROUTED MASONRY SHALL BE CONSTRUCTED IN SUCH A MANNER THAT ALL ELEMENTS OF THE MASONRY ACT TOGETHER AS A STRUCTURAL ELEMENT.
8. PRIOR TO GROUTING, THE GROUT SPACE SHALL BE CLEAN SO THAT ALL SPACES TO BE FILLED WITH GROUT DO NOT CONTAIN MORTAR PROJECTIONS GREATER THAN 1/2 INCH, MORTAR DROPPINGS, OR OTHER FOREIGN MATERIAL. GROUT SHALL BE PLACED SO THAT ALL SPACES DESIGNATED TO BE GROUTED SHALL BE FILLED WITH GROUT, AND THE GROUT SHALL BE CONFINED TO THOSE SPECIFIC SPACES.
9. GROUT MATERIALS AND WATER CONTENT SHALL BE CONTROLLED TO PROVIDE ADEQUATE FLUIDITY FOR PLACEMENT, WITHOUT SEGREGATION OF THE CONSTITUENTS, AND SHALL BE MIXED THOROUGHLY.
10. THE GROUTING OF ANY SECTION OF WALL SHALL BE COMPLETED IN ONE DAY WITH NO INTERRUPTIONS GREATER THAN ONE HOUR.
11. BETWEEN GROUT POURS, A HORIZONTAL CONSTRUCTION JOINT SHALL BE FORMED BY STOPPING ALL CMU AT THE SAME ELEVATION AND WITH THE GROUT STOPPING A MORTAR DROPPINGS OR OTHER FOREIGN MATERIAL. GROUT SHALL BE PLACED SO THAT WHERE BOND BEAMS OCCUR, THE GROND POUR SHALL BE STOPPED AT MINIMUM OF 1/2 INCH BELOW THE TOP OF THE MASONRY.
12. SEGREGATION OF GROUT MATERIALS AND DAMAGE TO THE MASONRY SHALL BE AVOIDED DURING THE GROUTING PROCESS.
13. GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACEMENT BEFORE LOSS OF PLASTICITY IN A MANNER TO FILL THE GROUT SPACE. GROUT POURS GREATER THAN 12 INCHES IN HEIGHT WILL BE RECONSOLIDATED BY MECHANICAL VIBRATION TO WHERE BOND BEAMS OCCUR, THE GROUT POUR SHALL BE STOPPED OF 1/2 MECHANICALLY VIBRATED OR PUDDLED AND RODDED WITH SMOOTH BAR.
14. GROUT SHALL NOT BE HANDLED NOR PUMPED UTILIZING ALUMINUM EQUIPMENT UNLESS IT CAN BE DEMONSTRATED WITH THE MATERIAL AND EQUIPMENT TO BE USED THAT THERE WILL BE NO DELETERIOUS EFFECT ON THE STRENGTH OF THE GROUT.
15. PLACE #4 VERTICAL REINFORCEMENT @ EACH CORNER AND @ EACH SIDE OF AN OPENING.



HEMPHILL

1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



APPROVAL
SPECIALTY TELECOMMUNICATIONS
SERVICES, LLC
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO:	1780
PROJECT NAME:	AMANDA FERGUSON
911 ADDRESS:	TBD
DRAWN BY:	LSV
CHECKED BY:	RGH/MK/SLT

ISSUED FOR:

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL



ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM. NO.: F-16740
REGISTRATION NO.: 149870

SCALE

N.T.S.

**COMPOUND WALL
DETAILS**

SHEET NUMBER: REVISION:

C6-4

0



HEMPHILL
1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



SPECIALTY TELECOMMUNICATIONS SERVICES, LLC
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO:	1780
PROJECT NAME:	AMANDA FERGUSON
911 ADDRESS:	TBD
DRAWN BY:	LSV
CHECKED BY:	RGH/MK/SLT

ISSUED FOR:
APPROVAL

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL



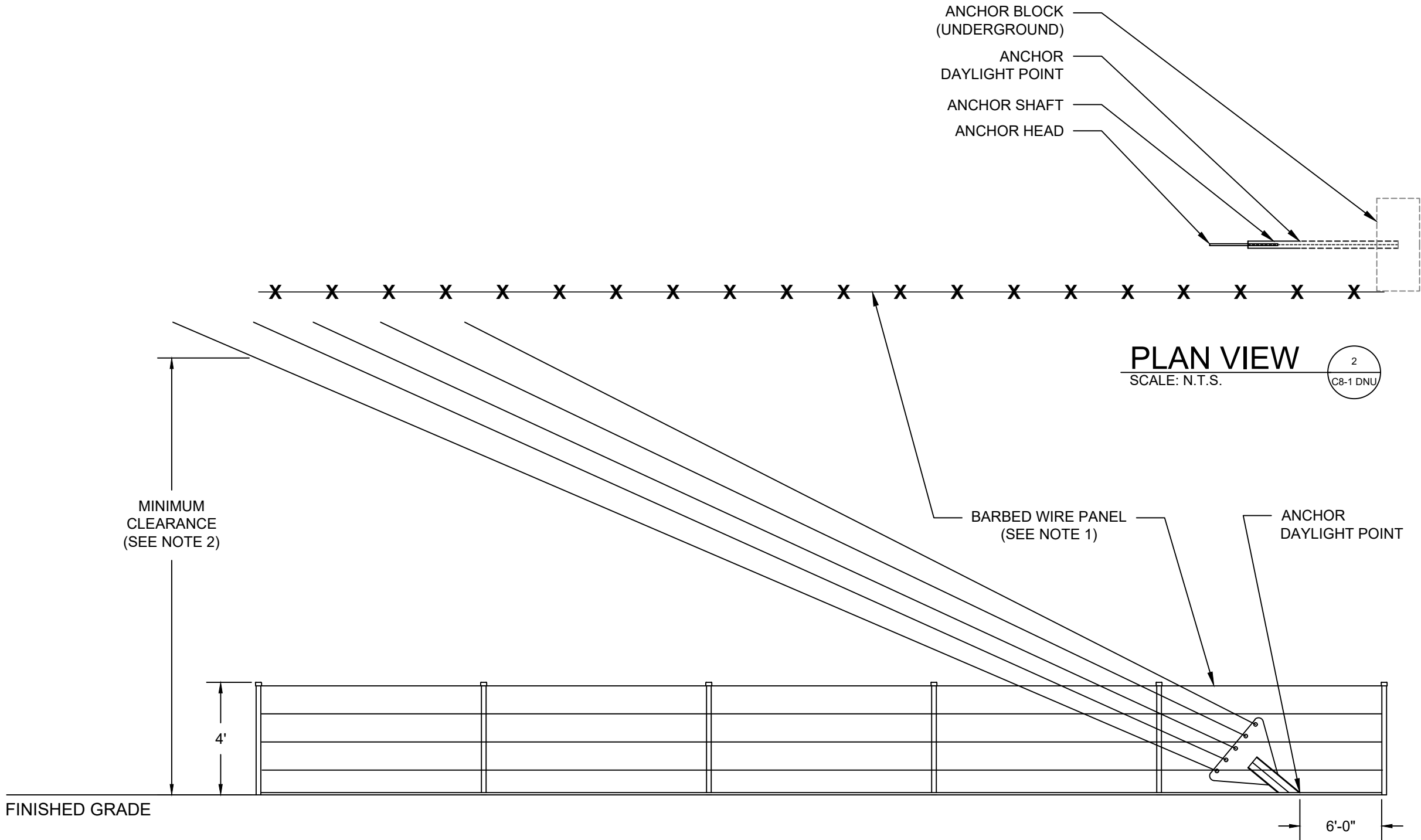
ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM. NO.: F-16740
REGISTRATION NO.: 149870

SCALE
N.T.S.

ANCHOR FENCE DETAILS

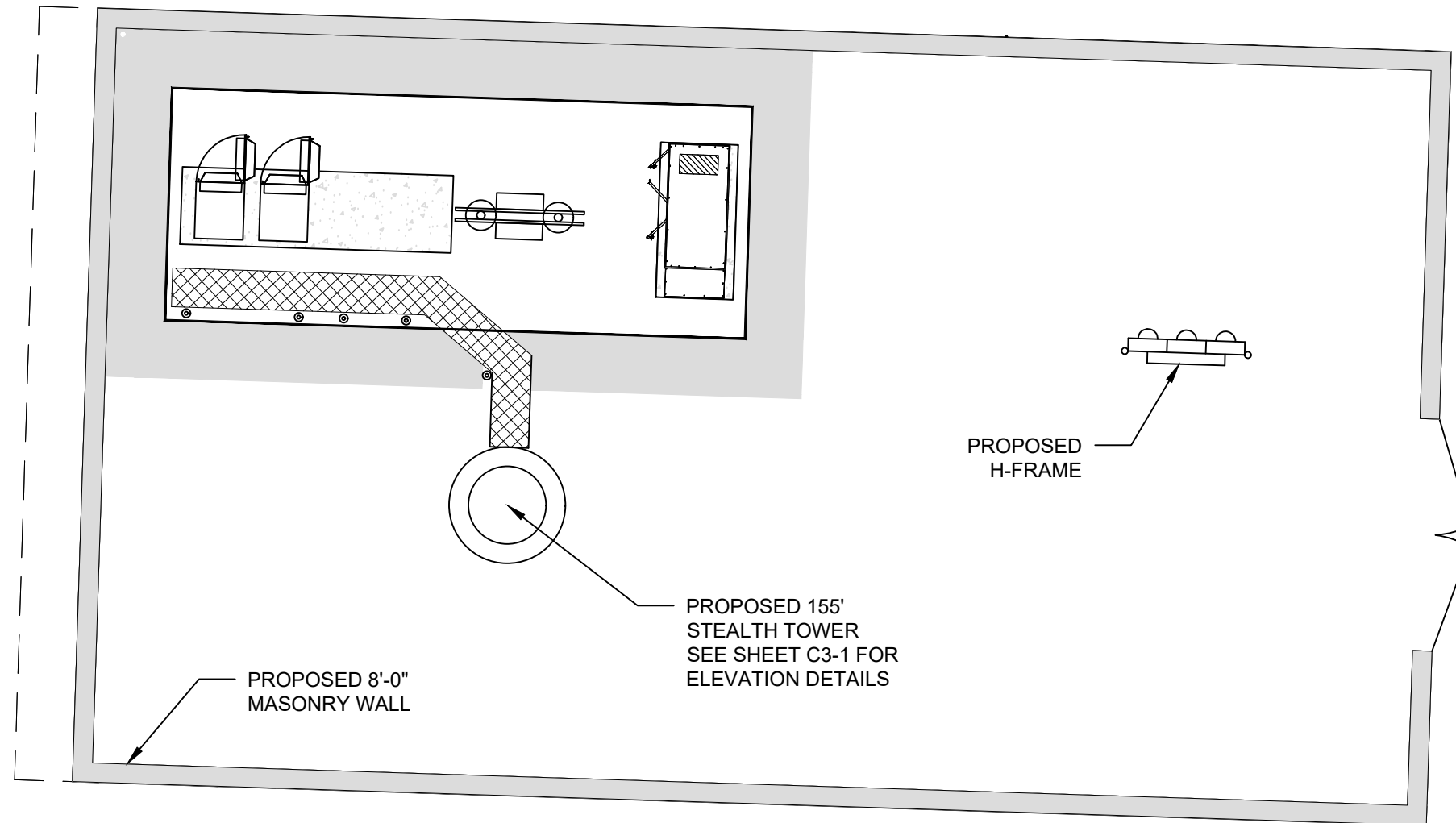
SHEET NUMBER:
C8-1 DNU

REVISION:
0



- NOTES:**
- 1. LENGTH AND EXTENT OF BARBED WIRE PANEL TO BE DETERMINED AT TIME OF CONSTRUCTION. THE ADDITION OF FENCING, OR A COMBINATION OF FENCING AND PANELING MAY BE REQUIRED DEPENDING ON SITE CONDITIONS AND SITE PARCEL LAND UTILIZATION PURPOSE.
 - 2. MINIMUM CLEARANCE TO BE 14'-0" FOR AGRICULTURAL AND 12'-0" FOR NON-AGRICULTURAL ZONED SITES.
 - 3. CONTRACTOR TO LAY NON-WOVEN MIRAFI 500 OR EQUIVALENT, AND SIX INCHES OF COMPACTED ROAD BASE AGGREGATE ON FINISHED GRADE. (REFER TO SHEET C4-1 DETAILS 2 AND 4)

ELEVATION VIEW
SCALE: N.T.S.



NOTES:

1. FOR ADDITIONAL INFORMATION
REFERENCE C2-1
2. COMPLETION OF ELECTRICAL SERVICE
SHALL BE PERFORMED BY LICENSED
ELECTRICAL CONTRACTOR



HEMPHILL

1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



**SPECIALTY TELECOMMUNICATIONS
SERVICES, LLC**
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO:	1780
PROJECT NAME:	AMANDA FERGUSON
911 ADDRESS:	TBD
DRAWN BY:	LSV
CHECKED BY:	RGH/MK/SLT

ISSUED FOR:

APPROVAL

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL



ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM. NO.: F-16740
REGISTRATION NO.: 149870

SCALE

1/8" = 1'-0"

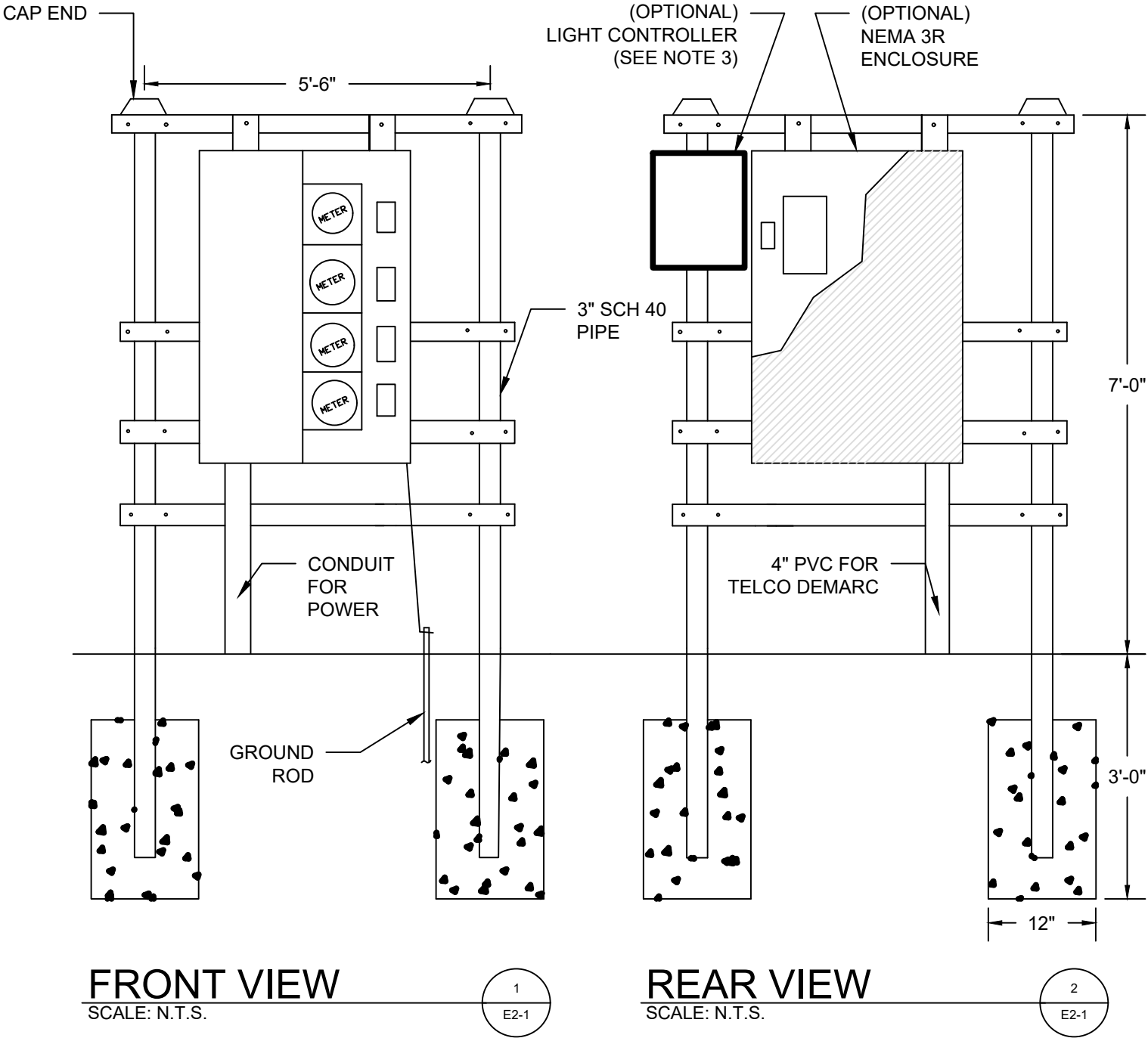
**ELECTRIC, LIGHTING
AND TELCO PLAN**

SHEET NUMBER: REVISION:

E1-1 0

NOTES:

- 1 CONTRACTOR SHALL PROVIDE AND INSTALL MODULAR METERING MAIN, 120/240V, 400A, NEMA 3R WITH FOUR METER SOCKETS. METER CENTER SHALL BE FURNISHED WITH 200A METER AND 200A CIRCUIT BREAKER. CIRCUIT BREAKERS SHALL BE COVERED WITH LEXAN METER COVER.
- 2 SHOULD CLIENT REQUEST A TELCO DEMARCATION BOX, CONTRACTOR SHALL PROVIDE AND INSTALL TELCO DEMARCATION BOX TO INCLUDE 48" X 48" X 12" NEMA 3R ENCLOSURE WITH BACKPLATE AND GFI RECEPTACLE (120V, 5A).
- 3 TOWER LIGHTING SHALL BE REQUIRED ON ALL TOWERS EXCEEDING 200' IN HEIGHT OR AS OTHERWISE REQUIRED BY FAA.
- 4 DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE ALTERED IN THE FIELD TO BETTER SUIT ACTUAL CONDITIONS OR EQUIPMENT RECEIVED.
- 5 ALL CONDUIT SHALL BE SCH. 40 PVC UNDERGROUND.
- 6 ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN GOOD WORKING CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND BY THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING ENTITIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS AS ESTABLISHED BY ANSI, NEMA, NSFU, AND "UL" LISTED.
- 7 ALL CONDUIT SHALL HAVE A PULL STRING.
- 8 THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY IBC, NEC, AND APPLICABLE CODES.
- 9 UNDERGROUND AND/OR OVERHEAD LINES SHALL BE OF THE SIZE AND MATERIAL NECESSARY TO MEET THE LOCAL CODE REQUIREMENTS.
- 10 ALL FRAME MEMBERS TO BE 1-5/8" X 1-5/8" P1000 UNISTRUT (EXCEPT FOR LEGS). CONNECT TO LEGS WITH U BOLTS



HEMPHILL

1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



SPECIALTY TELECOMMUNICATIONS SERVICES, LLC
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO:	1780
PROJECT NAME:	AMANDA FERGUSON
911 ADDRESS:	TBD
DRAWN BY:	LSV
CHECKED BY:	RGH/MK/SLT

ISSUED FOR:

APPROVAL

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL



ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM. NO.: F-16740
REGISTRATION NO.: 149870

SCALE

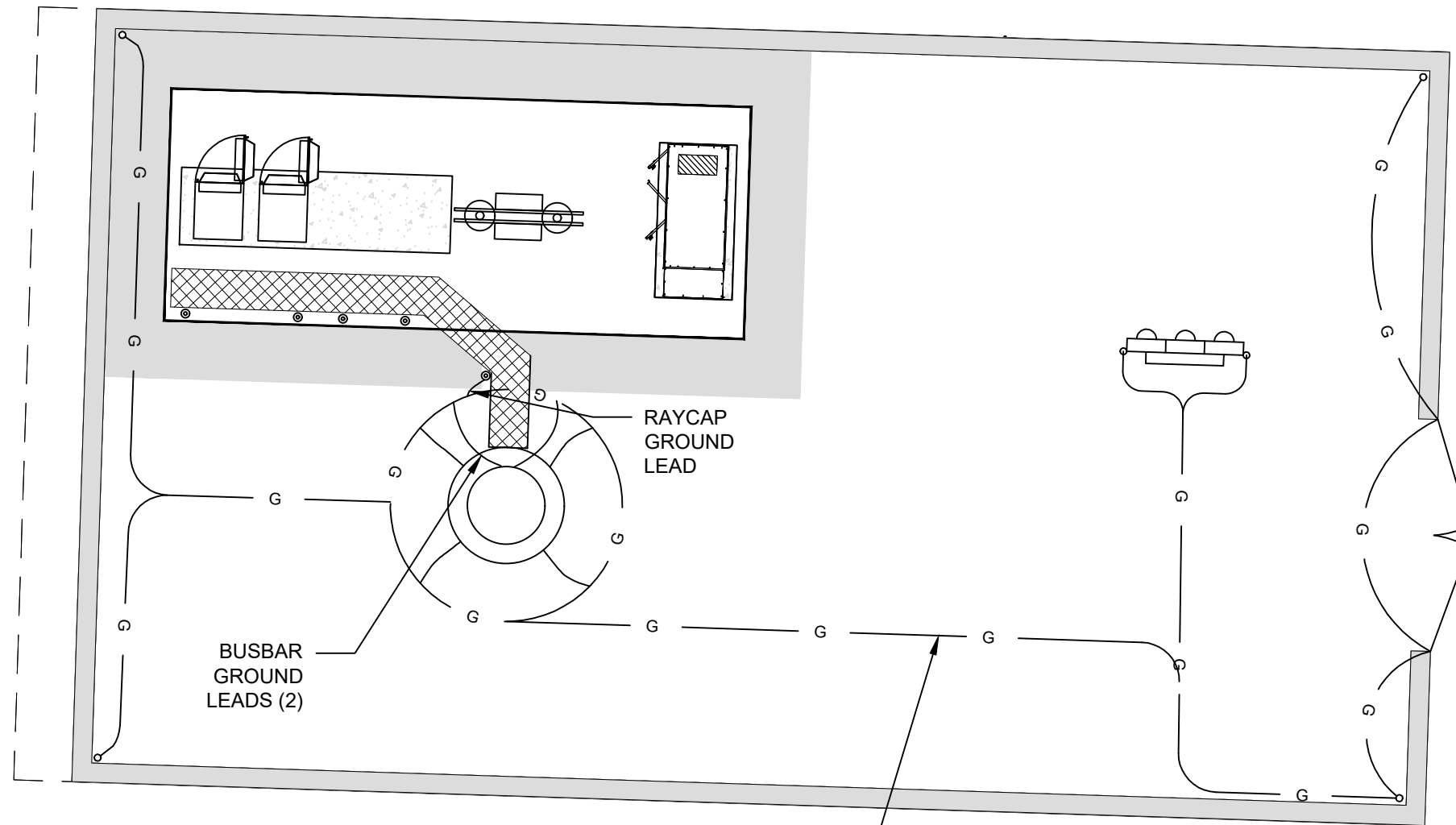
N.T.S.

**ELECTRICAL
DETAILS**

SHEET NUMBER: REVISION:

E2-1

0



#2 TINNED AWG GROUND RING
WITH 5/8" X 10'-0" COPPER CLAD
GROUNDING RODS
SEE SHEET E4-1 DETAILS 1 & 4

NOTES:

1. INFORMATION SHOWN IS FOR INFORMATION PURPOSES ONLY. DESIGN AND FINAL CONFIGURATION OF GROUNDING SYSTEM MAY VARY DEPENDING ON SITE CONDITIONS AT THE TIME OF CONSTRUCTION.
2. GROUND RODS SHOULD BE NO CLOSER THAN 2FT TO TOWER FOUNDATION
3. TOWER GROUND RODS SHALL BE PLACED 20FT APART AT MINIMUM FOR TOWER GROUND RING, AND 8FT APART AT MINIMUM FOR ALL OTHER GROUND LEADS
4. REFERENCE SHEET C2-1 FOR ADDITIONAL INFORMATION

THIS PLAN IS PROPOSED CONSTRUCTION
FOR THE SUBJECT SITE.



HEMPHILL

1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



**SPECIALTY TELECOMMUNICATIONS
SERVICES, LLC**
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO: 1780
PROJECT NAME: AMANDA FERGUSON
911 ADDRESS: TBD
DRAWN BY: LSV
CHECKED BY: RGH/MK/SLT

ISSUED FOR:

APPROVAL

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL



ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM. NO.: F-16740
REGISTRATION NO.: 149870

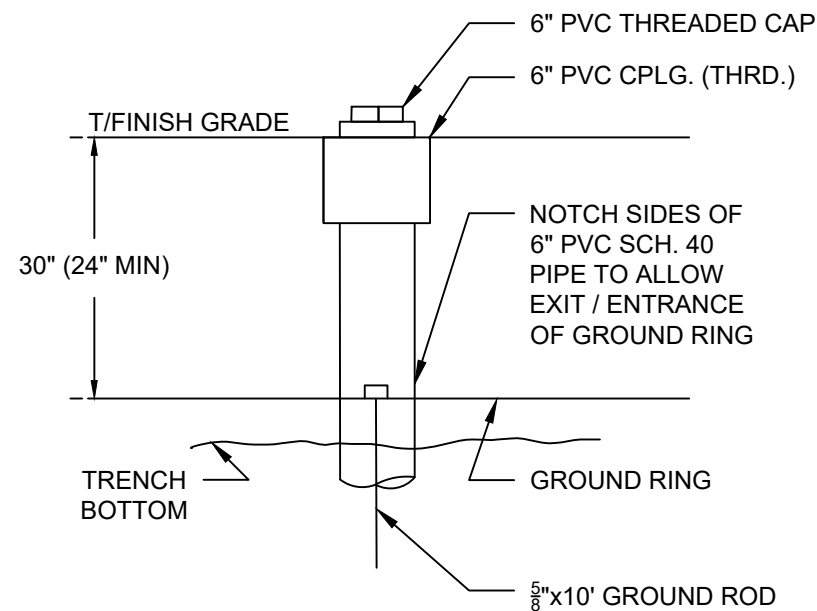
SCALE

1/8" = 1'-0"

GROUNDING PLAN

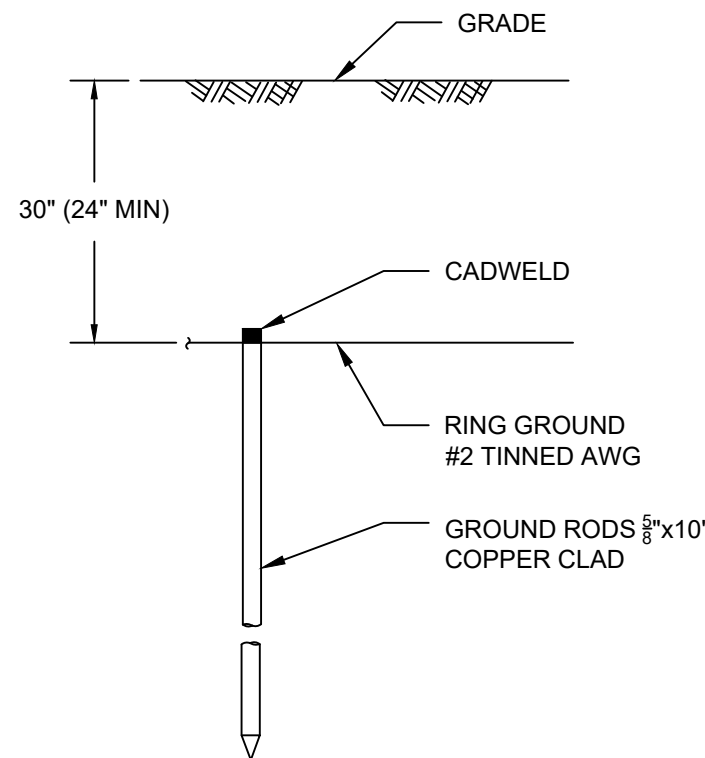
SHEET NUMBER: REVISION:

E3-1 0



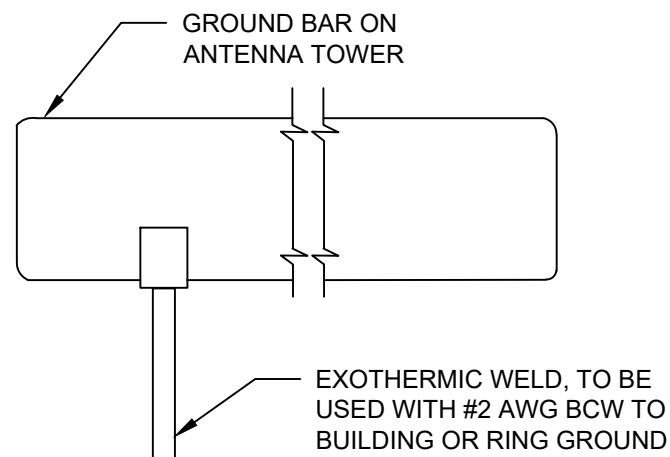
GROUNDING WELL

SCALE: N.T.S.



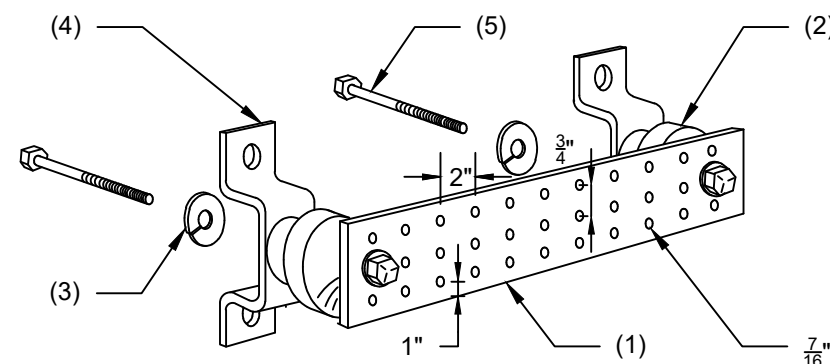
ROD AND RING GROUNDING

SCALE: N.T.S.



INSTALLATION OF GROUND WIRE TO GROUND BAR

SCALE: N.T.S.

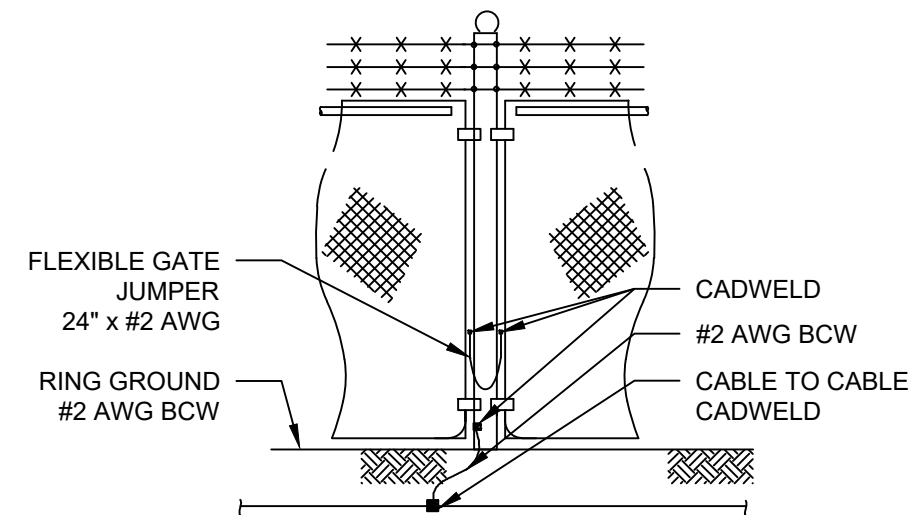


LEGEND

- (1) COPPER GROUND BAR, 1/4"x4"x20". HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION
- (2) INSULATORS
- (3) 5/8" LOCKWASHERS
- (4) WALL MOUNTING BRACKET
- (5) 5/8"-11x1" H.H.C.S. BOLTS

GROUND BAR DETAIL

SCALE: N.T.S.



1. THE #2 AWG, BCW, FROM THE RING GROUND SHALL BE CADWELDED TO THE POST, ABOVE GRADE
2. VERTICAL POST SHALL BE BONDED TO THE RING AT EACH CORNER AND AT EACH GATE POST. AS A MINIMUM, ONE VERTICAL POST SHALL BE BONDED TO THE GROUND RING IN EVERY 100 FEET
3. INSTALLATION OF FLEXIBLE GATE JUMPERS IS REQUIRED FOR ALL COMPOUND ACCESS GATES

FENCE GROUNDING

SCALE: N.T.S.



HEMPHILL

1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



SPECIALTY TELECOMMUNICATIONS
SERVICES, LLC
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO:	1780
PROJECT NAME:	AMANDA FERGUSON
911 ADDRESS:	TBD
DRAWN BY:	LSV
CHECKED BY:	RGH/MK/SLT

ISSUED FOR:

APPROVAL

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL



ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM. NO.: F-16740
REGISTRATION NO.: 149870

SCALE

N.T.S.

**GROUNDING
DETAILS**

SHEET NUMBER: REVISION:

E4-1

0

CONSTRUCTION

GENERAL

General construction, electrical, tower and foundation drawings are interrelated. In performance of the work each contractor must refer to all drawings. Coordination is the responsibility of the general contractor.

SITE WORK

PART 1 - GENERAL

1. Work included: See Site Plan
2. Access road, turnaround areas and sites are constructed to provide a well-drained, easily maintained, even surface for material and equipment deliveries and maintenance personnel access.

3. SEQUENCING

- A. Confirm survey stakes and set elevation stakes prior to any construction.
- B. Grub the complete road (if applicable) and site area prior to foundation construction or placement of backfill or subbase materials.
- C. Construct temporary construction zone along access drive.
- D. Bring the site area to subbase course elevation and bring the access road to base course elevation prior to forming foundation.
- E. Soil stabilizer shall be Mirafi - 500X or equal.
- F. Grade, seed, fertilize and mulch disturbed areas immediately after bringing site and access road to base course elevation.
- G. Remove gravel from temporary construction zone to an authorized area or as directed by the owner's representative.

4. SUBMITTALS

- A. Before construction:

i. If landscaping is applicable to contract, submit two copies of the landscape plan under nursery letterhead. If a landscape allowance was included in the contract, provide an itemized listing of proposed costs on nursery letterhead (refer to plans for landscaping requirements).

5. WARRANTY

- A. In addition to the warranty on all construction covered in the contract documents, the contractor shall repair all damage and restore area as close to original condition as possible at site and surroundings.
- B. Disturbed area will reflect growth of new grass cover prior to final inspection.

PART 2 - PRODUCTS

1. MATERIALS

- A. Road and site materials shall conform to DOT specifications fill material - acceptable select fill shall be in accordance with State Department of Highway and Transportation standard specifications and approved by the owner's representative.
- B. Soil stabilizer shall be Mirafi - 500X or equal.

PART 3 - EXECUTION

1. INSPECTIONS

Local building inspectors shall be notified no less than 24 hours in advance of concrete pours, unless otherwise specified by jurisdiction.

2. PREPARATION

- A. Clear trees, brush and debris from site area and access road right-of-way.
- B. Prior to other excavation and construction, grub organic material to a minimum of six (6) inches below grade.
- C. Prior to placement of fill or base materials, roll the soil.
- D. Where unstable soil conditions are encountered, line the areas with stabilizer mat prior to placement of fill or base material.

3. INSTALLATION

- A. The site and turnaround areas shall be at the subbase course elevation prior to forming foundation. Grade or fill the site and access road as required in order that upon distribution of spoils resulting from foundation excavations, the resulting grade will correspond with said subbase course, elevations are to be calculated from finished grades or slopes indicated.
- B. Clear excess spoils, if any, from job site and do not spread beyond the limits of project area unless authorized by the owner's representative and agreed to by landowner.
- C. Bring the access road to base course elevations prior to use to permit construction and observation during construction of the site.
- D. Avoid creating depressions where water may pond.
- E. The contract shall include grading, banking and ditching, unless otherwise indicated.
- F. When improving an existing access road, grade the existing road to remove any organic matter and smooth the surface before placing fill or stone.
- G. Place fill or stone in six inch maximum lifts and compact before placing next lift.
- H. The top surface course shall extend a minimum of six inches beyond the site fence and shall cover the area as indicated.
- I. Apply riprap gravel to the slopes of all fenced areas and parking areas and all other slopes greater than 2:1.
- J. Apply seed, fertilizer and straw cover to all other disturbed areas, ditches, drainage and swales not otherwise ripped.
- K. Apply seed and fertilizer to surface conditions which will encourage rooting. Rake areas to be seeded to even the surface and loosen the soil.
- L. Sow seed in two directions to twice the quantity recommended by the seed producer.

4. PROTECTION

- A. Protect seeded areas from erosion by spreading straw to a uniform loose depth of 1 - 2 inches, stake and tie down as required. Use of erosion control mesh or mulch net will be an acceptable alternate.
- B. Protect all exposed areas against washouts and soil erosion, place straw bales at the inlet approaches to all new or existing culverts. Where the site or road areas have been elevated immediately adjacent to the rail line, stake erosion control fabric full length in the swale to prevent contamination of the rail ballast.

5. The required structural fill operation to the grades indicated for PCS equipment shelters shall be performed as follows:

A. The structural fill material shall be placed in lifts not exceeding six inches in loose thickness.

B. Each layer of structural fill material placed shall be compacted to a minimum of 95° of maximum density obtainable by ASTM compaction test designation D-337-66T for cohesive fill or 75% relative as determined by ASTM D-2049-64T for cohesionless fill, whichever is greater.

C. The final grade of structural fill for all footings shall be capable of supporting the design soil bearing pressure load of 3,000 lbs. per square foot minimum.

FENCING AND GATE(S)

PART 1 - GENERAL

1. Work included: See plan for location of fence and gate(s).

2. QUALITY ASSURANCE

All steel materials utilized in conjunction with this specification will be galvanized or stainless steel. Weight of zinc coating of the fabric shall not be less than 12 ounces per square foot of material covered. Posts shall be hot-dipped galvanized.

3. SEQUENCING

If the site has been brought up to surface course elevation prior to the fence construction, fence post excavation spoils must be controlled to preclude contamination of said surface course.

4. SUBMITTALS

- A. Manufacturer's descriptive literature.
- B. Certificate or statement of compliance with the specifications.

PART 2 - PRODUCTS

1. FENCE MATERIAL

- A. All fabric wire, rails, hardware and other steel materials shall be hot-dipped galvanized.
- B. Fabric shall be six-foot height two-inch chain link mesh of No. 9 gauge wire. The fabric shall have a knuckled finish for the top selvages. Fabric shall conform to the specifications of ASTM A-392 Class 1.
- C. Barbed wire shall be double-strand, 12-1/2 gauge twisted wire strand with 14-gauge, 4-point round barbs spaced on five-inch centers, conforming to ASTM A121 Design # 12-4-5-14R Type 2.
- D. All posts shall be mechanical service pipe and shall be Type 1 ASTM F1083, High Strength (50 Ksi) Schedule 40 pipe, ASTM F1043 Group 1A, and of the following diameter (I.D. per fence industry standards).

Line2 inches

Corner3 inches

Gate4 inches
- E. Gate posts shall be extended 12 inches, including dome cap, to provide for attachment of barbed wire.
- F. All top and brace rails shall be 1-1/2" diameter mechanical service pipe. Frames shall have welded corners.
- G. Gate frame and braces shall be 1-5/8" diameter Schedule 40 mechanical service pipe. Frames shall have welded corners.
- H. Gate frame shall have a full height vertical brace and a full width horizontal brace, secured in place by use of gate brace clamps.
- I. Gate hinges shall be Merchants Metal Model 6-4386-hinge adapter with Model 6-409, 188 degree attachment.
- J. The guide (latch assembly) shall be heavy industrial gate latch. Master Halco #17221.
- K. Latches and stops shall be provided for all gates.
- L. All stops shall have keepers capable of holding the gate leaf in the open position.
- M. A No. 7 gauge zinc coated tension wire shall be used at the bottom of the fabric terminated with bank clips at corner and gateposts, conforming to ASTM A824 Type II.
- N. A six-inch by 1/2-inch diameter eyebolt to hold tension wire shall be placed at the line posts.
- O. Stretcher bars shall be 3/16-inch by 3/4-inch or have equivalent cross-sectional area, and conform to ASTM F626, having a minimum zinc coating of 1.2oz/sq-ft.
- P. All corner gate and panels shall have a 3/8-inch truss rod with turnbuckles.
- Q. All posts except gateposts shall have a combination cap and barbed wire supporting arm. Gateposts shall have a dome cap.
- R. Other hardware includes but may not be limited to the clips, band clips and tension band clips.
- S. Barbed wire gate guards shall be fitted with dome caps.
- T. Barbed wire support arms shall be cast iron with set bolt and lock wire in the arm.
- U. All caps shall be cast steel.
- V. Where the use of concertina has been specified, 24-inch diameter coil barbed tape, stainless steel, cyclone fence model gap to Type III shall be furnished. It shall be supported above the top rail by use of six wire barbed wire arms positioned atop each line/corner post.



HEMPHILL®

1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



SPECIALTY TELECOMMUNICATIONS
SERVICES, LLC
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO:	1780
PROJECT NAME:	AMANDA FERGUSON
911 ADDRESS:	TBD
DRAWN BY:	LSV
CHECKED BY:	RGH/MK/SLT

ISSUED FOR:
APPROVAL

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL



ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM. NO.: F-16740
REGISTRATION NO.: 149870

SCALE
N.T.S.

GENERAL NOTES

SHEET NUMBER:	REVISION:
G1-1	0

PART 3 - EXECUTION

1. INSPECTION

To confirm proper depth and diameter of post hole excavations, all post holes will be excavated as per construction documents.

2. INSTALLATION

- A. Foundations shall have a minimum six-inch concrete cover under post.
- B. All fence posts shall be vertically plumb plus/minus one-quarter inch.
- C. At corner posts, gateposts and sides of gate frame, fabric shall be attached with stretcher and tension band-clips at fifteen inch intervals.
- D. At line posts, fabric shall be attached with band-clips at fifteen inch intervals.
- E. Fabric shall be attached to brace rails, tension wire and truss rods with tie clips at two foot intervals.
- F. A maximum gap of two inches will be permitted between the chain link fabric and the final grade.
- G. Gate shall be installed so locks are accessible from both sides.
- H. Gate hinge bolts shall have their threads peened or welded to prevent unauthorized removal.
- I. Concrete to be a minimum of 3,000 psi.

3. PROTECTION

Upon completion of erection, inspect fence material and paint field cuts or galvanizing breaks with zinc-based paint, color to match the galvanized metal.

Applicable Standards:

- ASTM-A120 Specification for pipe, steel black and hot-dipped, zinc coated (galvanized) welded and seamless.
- ASTM-A123 Zinc (hot-dipped galvanized) coated steel chain link fence fabric.
- ASTM-A153 Specification for zinc coating (hot-dip) on iron and steel hardware.
- ASTM-A392 Specification for zinc-coated steel chain link fence fabric.
- ASTM-A431 Specification for aluminum-coated steel chain link fence fabric.
- ASTM-A525 Standard specification for steel sheet zinc coated (galvanized) by the hot-dipped process.
- ASTM-A535 Specification for aluminum coated steel barbed wire.
- ASTM-A570 Specification for hot-rolled carbon steel sheet and strip, structural quality.
- Federal Specification RR-F-191 Fencing Wire and Post Metal (and Gates, Chain Link Fence Fabric and Accessories)

ELECTRICAL

1. Contractor shall review the contract documents prior to the ordering of the electrical equipment and starting the actual construction. Contractor shall issue a written notice of all findings to the architect listing any discrepancies or conflicting information.

2. Verify exact locations and mounting heights of electrical equipment with owner prior to installation.

3. All materials and equipment shall be new and in good working 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 "J" where applicable. Materials shall meet with approval of all governing bodies having jurisdiction. Materials shall be manufactured in accordance with applicable standards established by ANSI, NEMA, NSFU and "UL" listed.

4. All conduit shall have a pull string.

5. Provide Project Manager with one set of complete electrical "As Installed" drawings at the completion of the job showing actual dimensions, routing and circuits.

6. The entire electrical installation shall be grounded as required by IBC, NEC and all applicable codes.

7. Patch, repair and paint any area that has been damaged in the course of the electrical work.

8. Wire and cable conductors shall be copper 600 amp, type THHN or THWN with a minimum size of #2 AWG color-coded. All rectifier drops shall be stranded to accept crimp connectors.

9. All chemical ground rods shall be "UL" approved.

10. Meter socket amperes, voltage, number of phases shall be as noted on the drawings, manufactured by Milbank or approved equal and shall be utility company approved.

11. CONDUIT

- A. Electrical metallic tubing shall have UL label; fitting shall be gland ring compression type.
- B. Flexible metallic conduit shall have UL listed label and may be used where permitted by code. Fittings shall be "Jake" or "Squeeze" type. All flexible conduits shall have full length ground wire.
- C. All underground conduit shall be PVC Schedule 40 with UV protection (unless noted otherwise) at a minimum depth of 24" below grade.

12. Contractor to coordinate with utility company for connection of temporary and permanent power to the site. The temporary power and all hookup costs are to be paid by the contractor.

13. All electrical equipment shall be labeled with permanent engraved plastic labels with white on blue background lettering (minimum letter height shall be 1/4"). Nameplates shall be fastened with stainless steel screws, not adhesive.

14. GROUNDING ELECTRODE SYSTEM

A. PREPARATION

- i. Surface Preparation:
All connections shall be made to bare metal. All painted surfaces shall be field inspected and modified to ensure proper contact. No washers are allowed between the items being grounded. All connections are to have a non-oxidizing agent applied prior to installation.
- ii. Ground Bar Preparation:
All copper ground bars shall be cleaned, polished and a non-oxidizing agent applied. No fingerprints or discolored copper will be permitted.
- iii. All grounding conductors shall run through seal tight wherever conductors run through walls, floors or ceilings. If conductors must run through EMT, both ends of conduit shall be grounded. Seal both ends of conduit with silicone caulk.

B. GROUND BARS

- i. All ground bars shall be 1/4" thick copper and of size indicated on drawings.

C. EXTERNAL CONNECTIONS

- i. All grounding connections shall be made by the exothermic weld process. Connections shall include all cable, splices, tee's, x's, etc. All cable to ground rods, ground rod splices and lightning protection systems are to be as indicated. All materials used (molds, welding metal, tools, etc.) shall be cadweld and installed per manufacturer's recommended procedures.

D. GROUND RODS

- i. All ground rods shall be 5/8" diameter by 10'-0" long "copperweld" or approved equal of the number and locations indicated.
Ground rods shall be driven full length vertically in undisturbed earth.

E. GROUND CONDUCTORS

- i. All ground conductors shall be standard tinned, solid bare copper, annealed and size indicated on drawings.

F. GROUND RING

- i. The external ground ring encircling the tower (if applicable) and future carrier shall be minimum size of No. 2 AWG solid tinned, bare copper conductor in direct contact with the earth at a depth specified on plan sheets and details. Conductor bends shall have a minimum bending radius of eight inches.
- ii. All external ground rings are to be joined together and all connections must be cadwelded. No lugs or clamps will be accepted.

G. FENCE / GATE

- i. Ground each gatepost, corner post and gate as indicated on drawing. Ground connections to fence posts and all other connections for the ground grid system shall be made by exothermic weld process and installed per manufacturer's recommendations and procedures and sprayed and cold-galvanized paint.



HEMPHILL

1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



SPECIALTY TELECOMMUNICATIONS
SERVICES, LLC
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO:	1780
PROJECT NAME:	AMANDA FERGUSON
911 ADDRESS:	TBD
DRAWN BY:	LSV
CHECKED BY:	RGH/MK/SLT

ISSUED FOR:
APPROVAL

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL

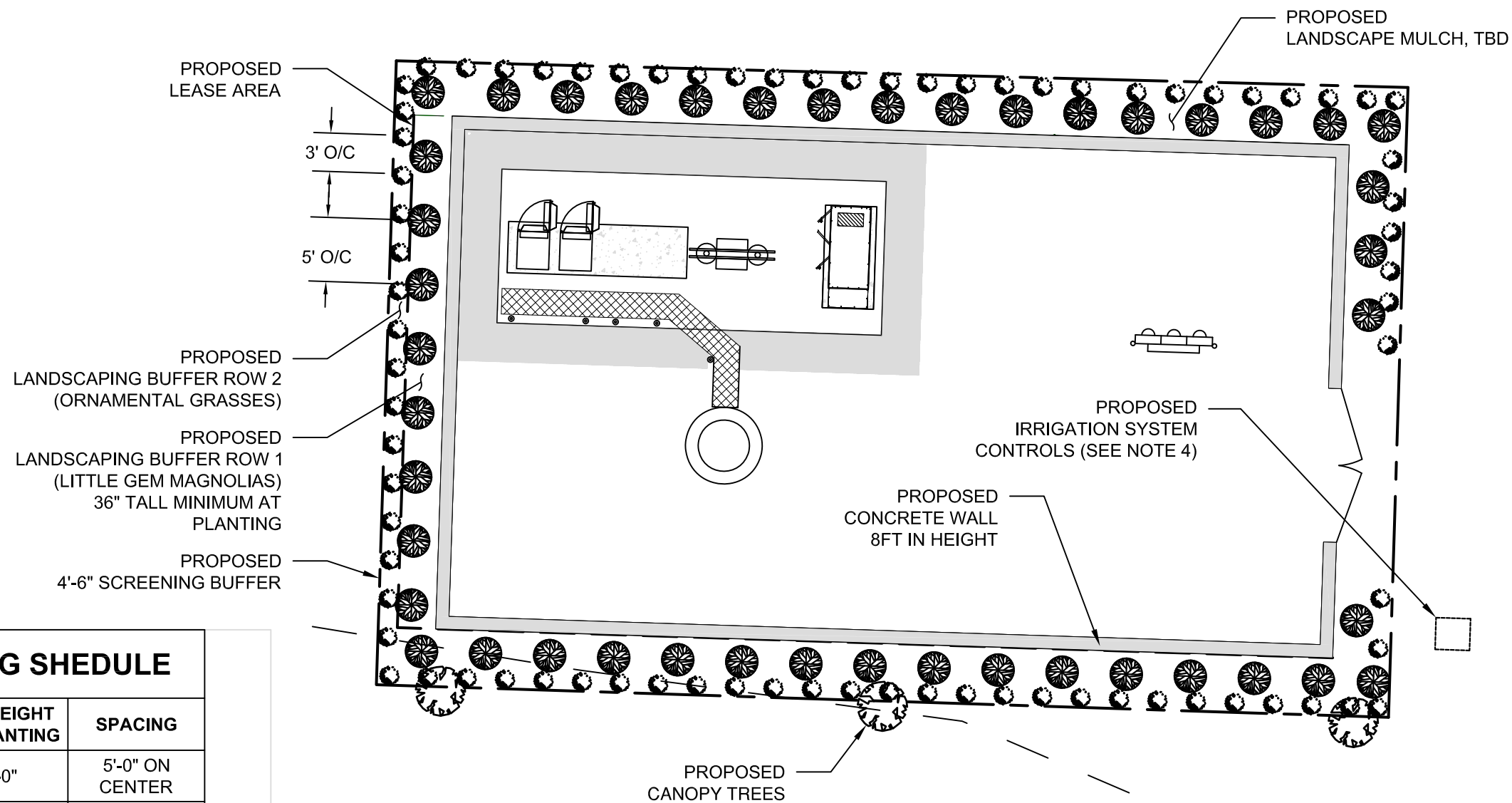


ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM. NO.: F-16740
REGISTRATION NO.: 149870

SCALE
N.T.S.

GENERAL NOTES

SHEET NUMBER:	REVISION:
G1-2	0



PROPOSED PLANTING SHEDULE

SPECIES	MIN. HEIGHT AT PLANTING	SPACING
LITTLE GEM MAGNOLIAS	3'-0"	5'-0" ON CENTER
ORNAMENTAL GRASSES	N/A	3'-0" ON CENTER

NOTES:

1. LANDSCAPE PLAN TO CONFORM WITH MCKINNEY CODE OF ORDINANCES, SUBPART B, CHAPTER 146, ARTICLE IV, SEC. 146 -135 - "LANDSCAPE REQUIREMENTS"
2. PLANT SPECIES TO BE SELECTED FROM FROM APPROVED PLANT LIST (CHAPTER 146, APPENDIX A, SECTION A-1
3. FINAL PLANTING OFFSET DISTANCES TO BE VERIFIED AND MODIFIED AS NEEDED TO MATCH EXISTING LANDSCAPE OF ADJACENT BUILDINGS
4. PER SEC. 146-135(D)(2)(e): ALL REQUIRED LANDSCAPE AREAS SHALLE BE PROVIDED WITH AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM WITH RAIN AND FREEZE SENSORS, AND SAID IRRIGATION SYSTEM SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL AND INSTALLED BY A LICENSED IRRIGATOR.

LEGEND:

LEASE AREA	---
SCREENING BUFFER	---

AREA TYPE	CALC. AREA	% OF TOTAL
LANDSCAPING AREA	1008 SQFT	29.38%
TOTAL LEASE AREA	2920 SQFT	100%



HEMPHILL®

1305 NORTH LOUISVILLE AVE
TULSA, OK 74115
(918) 834-2200



SPECIALTY TELECOMMUNICATIONS SERVICES, LLC
13431 BROADWAY EXT., SUITE 120.
OKLAHOMA CITY, OK 73114
405-753-7167

PROJECT NO:	1780
PROJECT NAME:	AMANDA FERGUSON
911 ADDRESS:	TBD
DRAWN BY:	LSV
CHECKED BY:	RGH/MK/SLT

ISSUED FOR:

APPROVAL

REV	DATE	DESCRIPTION
0	04/29/25	FOR APPROVAL



ETHAN T. VAN METER
PROFESSIONAL ENGINEER - TEXAS
FIRM. NO.: F-16740
REGISTRATION NO.: 149870

SCALE

3/32" = 1'-0"

LANDSCAPING PLAN

SHEET NUMBER: REVISION:

L1-1 **0**



Hemphill
1305 North Louisville Ave.
Tulsa OK 74115 USA
(918) 834-2200

Specialty Telecommunications Services
13431 N. Broadway, Suite 120
Oklahoma City OK 73114
(405) 753-7167

STS#: HH.TX.002.HA.23
12 March 2025

AGGREGATE SURFACE PAVEMENT ANALYSIS AND DESIGN

SITE DESIGNATION

Site Number:
Site Name:

1780
Amanda Ferguson

SITE DATA

155' Stealth Tower
TBD Trinity Falls Parkway
McKinney, TX
Market: Texas

Mr. Matt Kline,

STS has performed a roadway design analysis of the proposed access road located at the above-mentioned tower site addressing the City of McKinney requirement for the proposed access road to adequately support an 85,000lb emergency vehicle.

This analysis is based on the *AASHTO Guide for Design of Pavement Structures*, Section 4.2.3 Aggregate-Surfaced Road Design Catalog, using Climatic Regions II/V, a 'Fair' soil quality defined as a k-value range of 250 to 350 pci, and a 'Low' traffic level defined as 10,000 to 30,000 18-kip equivalent single axle load (ESAL) applications.

Based on our analysis, a 12" thick non-bituminous aggregate-surface access road proposed at the above tower site will be sufficient to support the anticipated traffic loads, including periodic loads from 85,000lb emergency vehicles. Please see details

Please do not hesitate to contact us with any questions regarding this assessment.

Sincerely,

Ethan Van Meter, P.E.

PE # 149870
COA# F-16740



Design Assessment:

The traffic volume on this access road shall be limited to approximately one service vehicle per week; the 15-year ESAL of the proposed road was determined to be 189, far below the AASHTO range for low traffic. The following equation was utilized to calculate ESAL:

$$ESAL = ADT \times TKS \times DD \times LD \times TF \times 365 \times G$$

Where:

ADT = Average Daily Traffic

TKS = Percentage of Truck Traffic

DD = Directional Distribution

LD = Lane Distribution of Truck Traffic

TF = Average Truck Factor

G = Traffic Growth Factor

Construction Criteria:

Based on AASHTO 4.2.3 Table 4.10, a 12" thick compacted aggregate base placed on a minimum 6" of properly compacted subgrade will adequately support the anticipated vehicle loads. The 12" thick aggregate-surface (non-bituminous) pavement shall be constructed per the following criteria:

1. Subgrade shall be compacted a minimum 6" below bottom of new aggregate pavement base to 100% dry density per AASHTO T-99.
2. The subgrade shall be proof-rolled per TxDOT Specification Item 216 with a mechanical roller in order to identify weak spots. These spots shall be excavated, replaced with an approved aggregate base, and compacted to 100% dry density per AASHTO T-99.
3. The 12" aggregate base (non-bituminous) pavement course shall be placed and compacted to 100% dry density per AASHTO T-99.

Additional notes:

1. Aggregate material shall meet TxDOT Specification for Aggregate Base Coarse (ABC) with 100% passing a 1" sieve.
2. The contractor may compact 6" of aggregate base in a single lift provided he demonstrates the ability to achieve 100% dry density per AASHTO T-99.
3. All other road construction items including but not limited to site preparation, material disposal, etc. shall be performed per the latest edition of the *TxDOT Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges*.