

EXISTING BUILDING (TYP.)

EXISTING CANAL (TYP.)

EXISTING TREE (TYP.)

PROPOSED PHOENIX TOWER 150'± MONOPOLE

BOUNDARY OF EXISTING PROPERTY

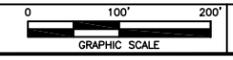
EXISTING POOL

EXISTING BUILDING (TYP.)



1
C2

SITE PLAN



REV	DATE	DESCRIPTION
A	4/13/23	PRELIMINARY
B	11/8/23	REVISED
C	2/28/24	REVISED
D	3/11/24	REVISED
O	3/14/24	FOR ZONING

APX PROJECT NO.:	20-0256.01
DRAWN BY:	O. JOHNSON
CHECKED BY:	M. ABBEY

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(954) 744-1538
CERTIFICATE OF AUTHORIZATION 31948



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US-FL-1275
RIVER RANCH

30529 RIVER RANCH BOULEVARD
RIVER RANCH, FL 33867

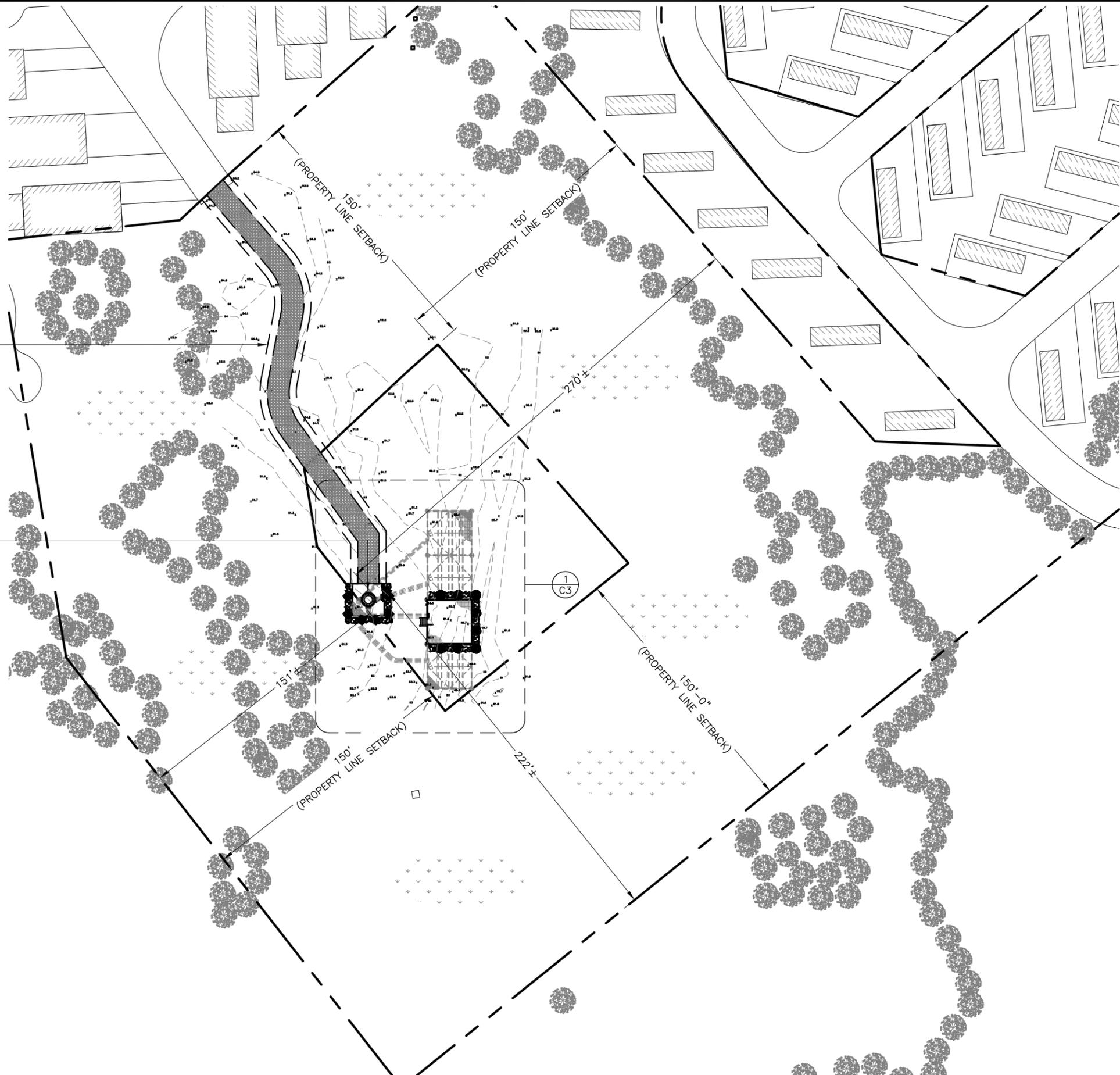
SHEET NAME

SITE PLAN

SHEET NUMBER

C1

1

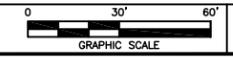


PROPOSED 20' WIDE PHOENIX TOWER
NON-EXCLUSIVE ACCESS EASEMENT

PROPOSED PHOENIX TOWER 150'± MONOPOLE

SETBACKS OF TOWER FROM PROPERTY BOUNDARY	
NORTHEAST	270'±
SOUTHEAST	222'±
SOUTHWEST	151'±

ENLARGED SITE PLAN



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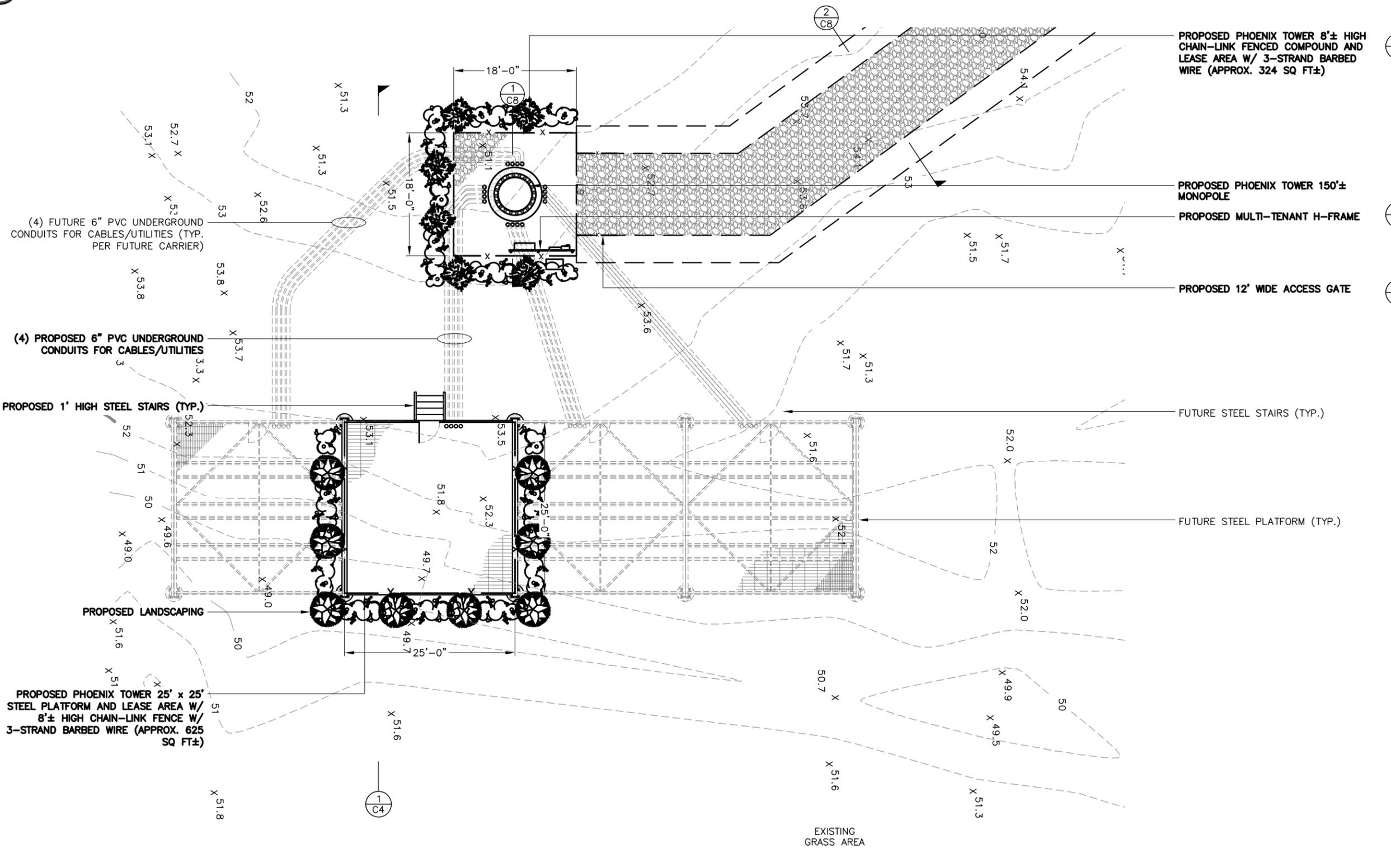
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ENLARGED
SITE PLAN

SHEET NUMBER

C2



PROPOSED PHOENIX TOWER 8'± HIGH CHAIN-LINK FENCED COMPOUND AND LEASE AREA W/ 3-STRAND BARBED WIRE (APPROX. 324 SQ FT±)

PROPOSED PHOENIX TOWER 150'± MONOPOLE

PROPOSED MULTI-TENANT H-FRAME

PROPOSED 12' WIDE ACCESS GATE

FUTURE STEEL STAIRS (TYP.)

FUTURE STEEL PLATFORM (TYP.)

(4) FUTURE 6" PVC UNDERGROUND CONDUITS FOR CABLES/UTILITIES (TYP. PER FUTURE CARRIER)

(4) PROPOSED 6" PVC UNDERGROUND CONDUITS FOR CABLES/UTILITIES

PROPOSED 1' HIGH STEEL STAIRS (TYP.)

PROPOSED LANDSCAPING

PROPOSED PHOENIX TOWER 25' x 25' STEEL PLATFORM AND LEASE AREA W/ 8'± HIGH CHAIN-LINK FENCE W/ 3-STRAND BARBED WIRE (APPROX. 625 SQ FT±)

1/C5

1/E4

1/C6

3/E4

1/C10

1/L1

1/C10

1/C4

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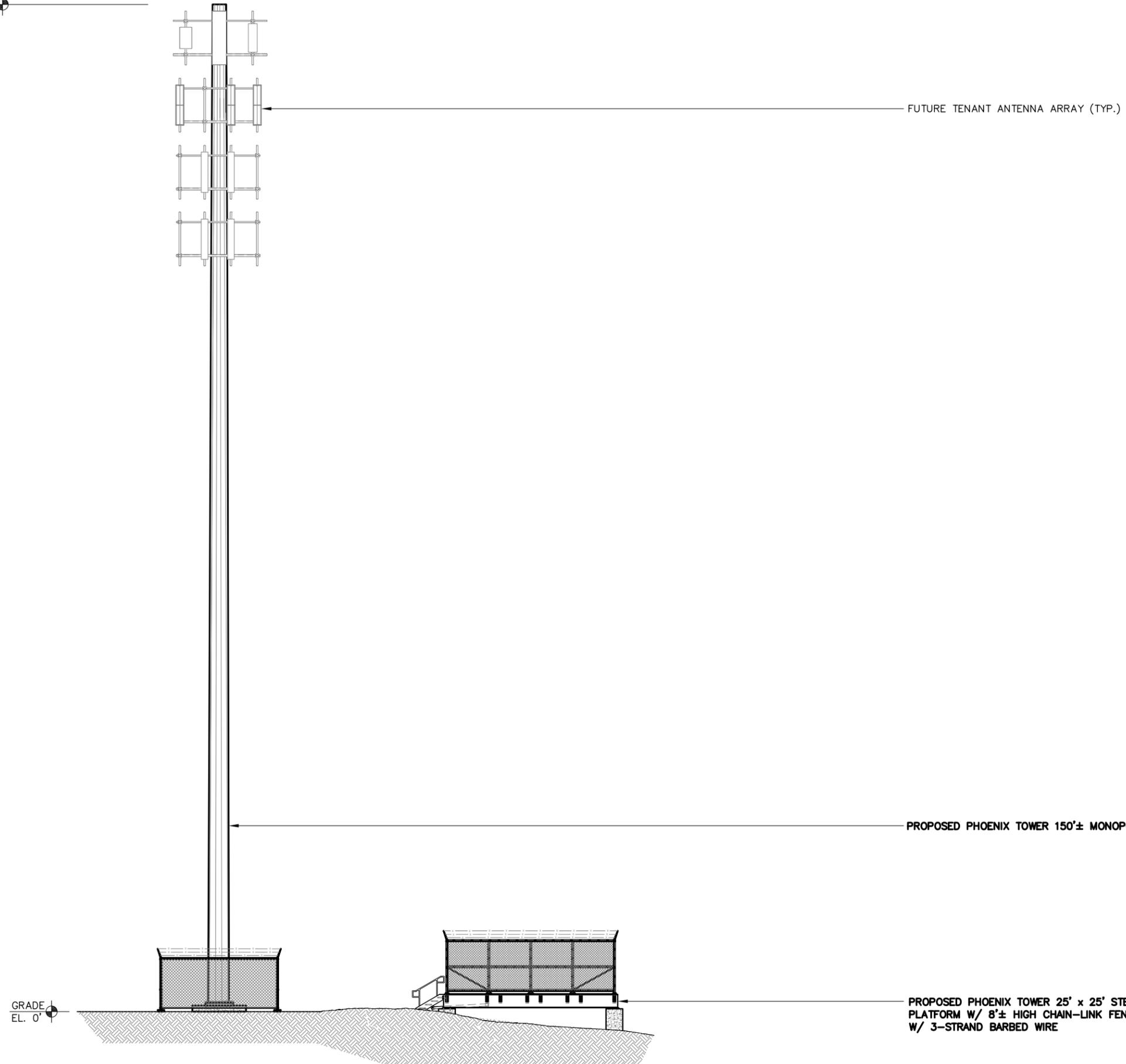


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SHEET NAME
COMPOUND PLAN
SHEET NUMBER
C3

TOP OF MONOPOLE
EL. 150'



GRADE
EL. 0'

FUTURE TENANT ANTENNA ARRAY (TYP.)

PROPOSED PHOENIX TOWER 150'± MONOPOLE

PROPOSED PHOENIX TOWER 25' x 25' STEEL
PLATFORM W/ 8'± HIGH CHAIN-LINK FENCE
W/ 3-STRAND BARBED WIRE

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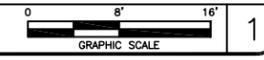
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SHEET NAME
ELEVATION

SHEET NUMBER
C4

TOWER ELEVATION



1
C10

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RIVER RANCH

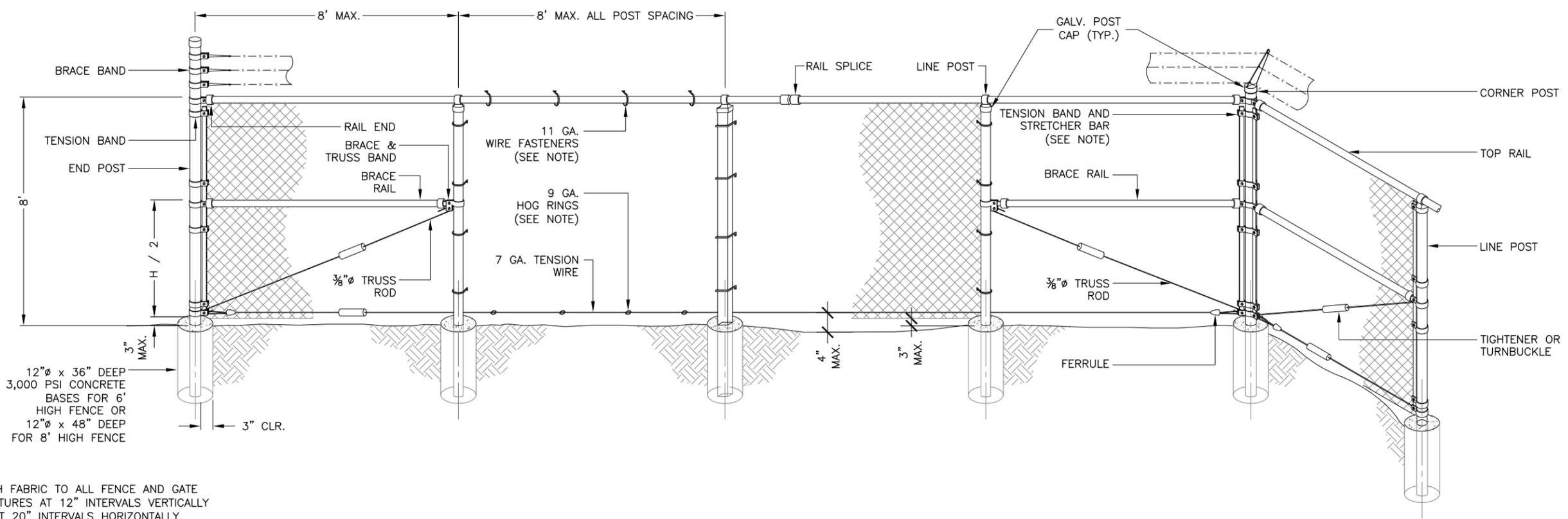
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SHEET NAME

FENCE DETAILS

SHEET NUMBER

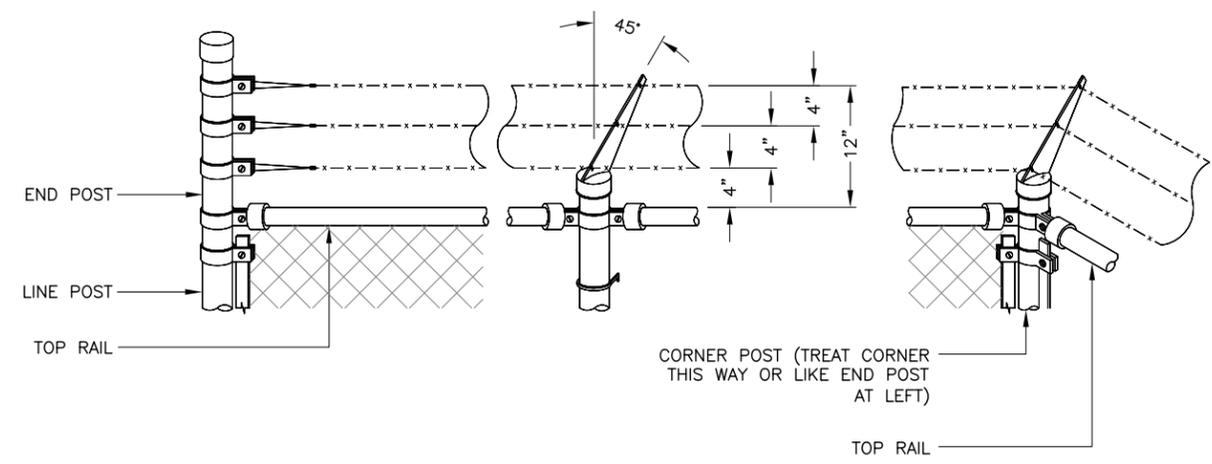
C5



NOTE:
ATTACH FABRIC TO ALL FENCE AND GATE STRUCTURES AT 12" INTERVALS VERTICALLY AND AT 20" INTERVALS HORIZONTALLY.

FENCE DETAIL

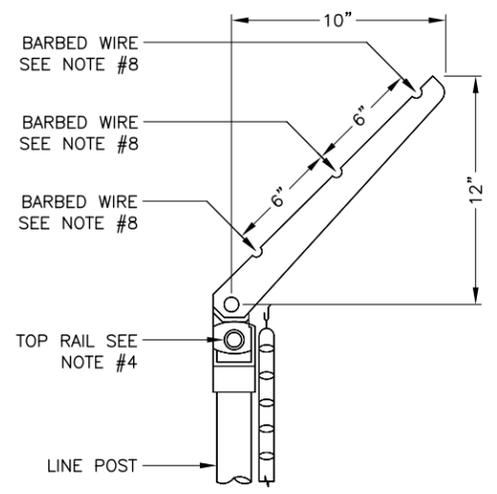
NTS 1



NOTES:
1. SLOPE TOP OUT OF COMPOUND AT 45°.
2. BARBED WIRE OVER GATES SHALL NOT BE SLOPED.

BARBED WIRE TOP DETAIL

NTS 2



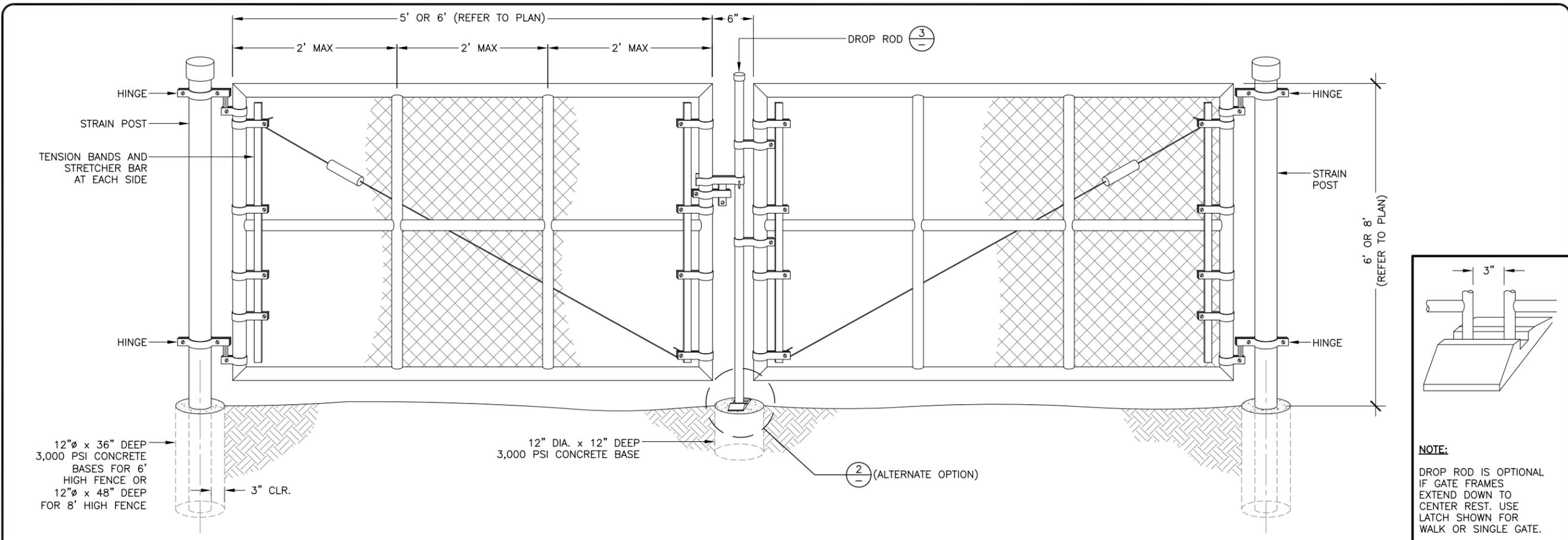
BARBED WIRE SUPPORT DETAIL

NTS 3

- GATE POST, CORNER, TERMINAL OR PULL POST SHALL BE 2 1/8"Ø SCHEDULE 40 PIPE FOR GATE WIDTHS UPTO 6 FEET OR 12 FEET FOR DOUBLE SWING GATE PER ASTM-F1083.
- LINE POST: 2 3/8"Ø SCHEDULE 40 PIPE PER ASTM-F1083.
- GATE FRAME: 1 1/2"Ø SCHEDULE 40 PIPE PER ASTM-F1083. & ASTM F900.
- TOP RAIL & BRACE RAIL: 1 3/8"Ø SCHEDULE 40 PIPE PER ASTM-F1083.
- FABRIC: 2" MESH No. 9 GAGE GALVANIZED WIRE SECURELY FASTENED TO TENSION WIRE, LINE POST, BARS CONFORMING TO ASTM-A392, & AASHTO M 181.
- TIE WIRE: MINIMUM 11 GA GALVANIZED STEEL. INSTALL A SINGLE WRAP TIE WIRE AT POSTS AND RAILS AT MAX. 12" INTERVALS VERT & 20" HORIZ. INSTALL HOG RINGS ON TENSION WIRE AT 20" INTERVALS.
- TENSION WIRE: 7 GA. GALVANIZED STEEL.
- BARBED WIRE: 3 STRANDS OF DOUBLE STRANDED 12 1/2 GAUGE TWISTED WIRE, 4 PT. BARBS SPACED ON APPROXIMATELY 5" CENTERS CONFORMING TO AASHTO M 280.
- LOCAL ORDINANCE FOR BARBED WIRE PERMIT SHALL GOVERN INSTALLATION.
- INSTALL FENCING PER CURRENT BUILDING CODE.

FENCE NOTES

4

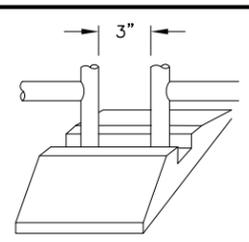


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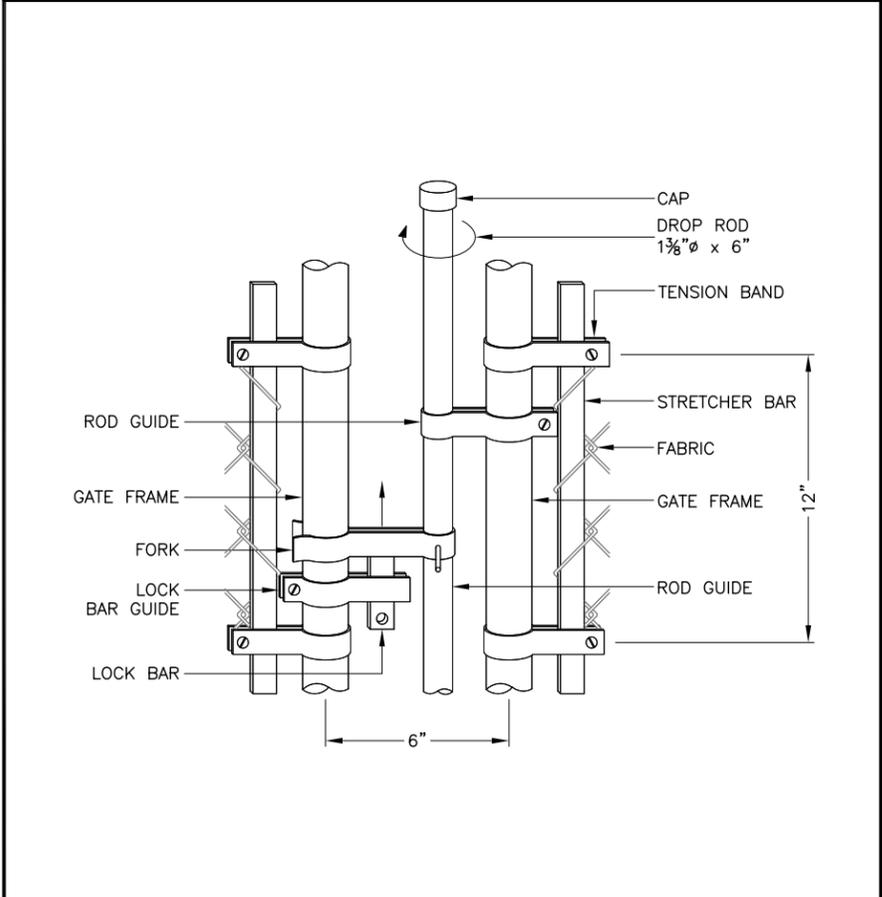
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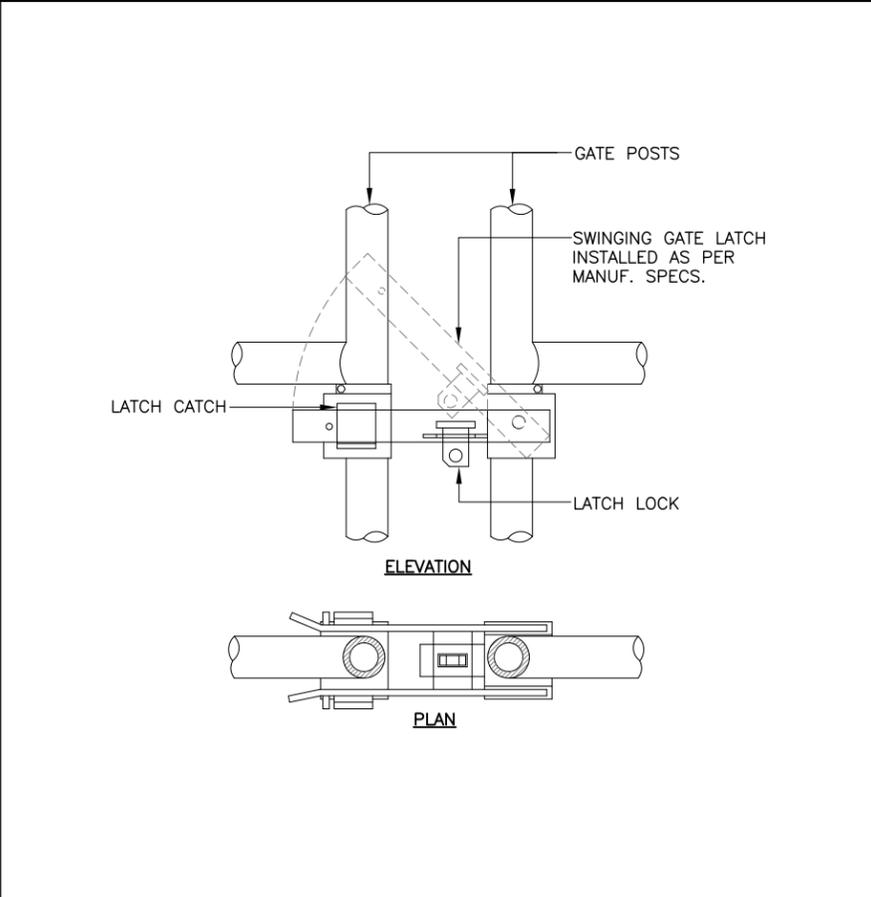


NOTE:
DROP ROD IS OPTIONAL IF GATE FRAMES EXTEND DOWN TO CENTER REST. USE LATCH SHOWN FOR WALK OR SINGLE GATE.

DOUBLE GATE DETAIL NTS 1 DETAIL NTS 2



TYPICAL DROP ROD ASSEMBLY NTS 3

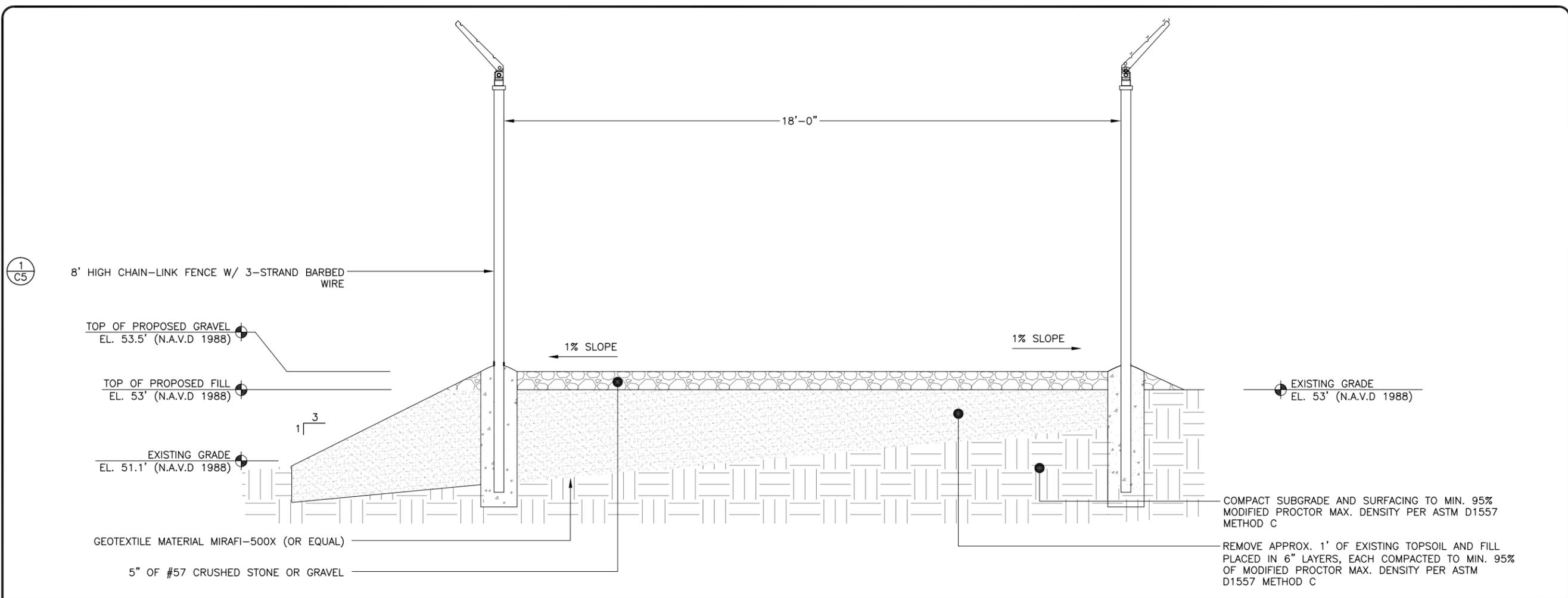


PIONEER LATCH DETAIL NTS 4

(NOT USED) 5

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SHEET NAME
GATE DETAILS
SHEET NUMBER
C6



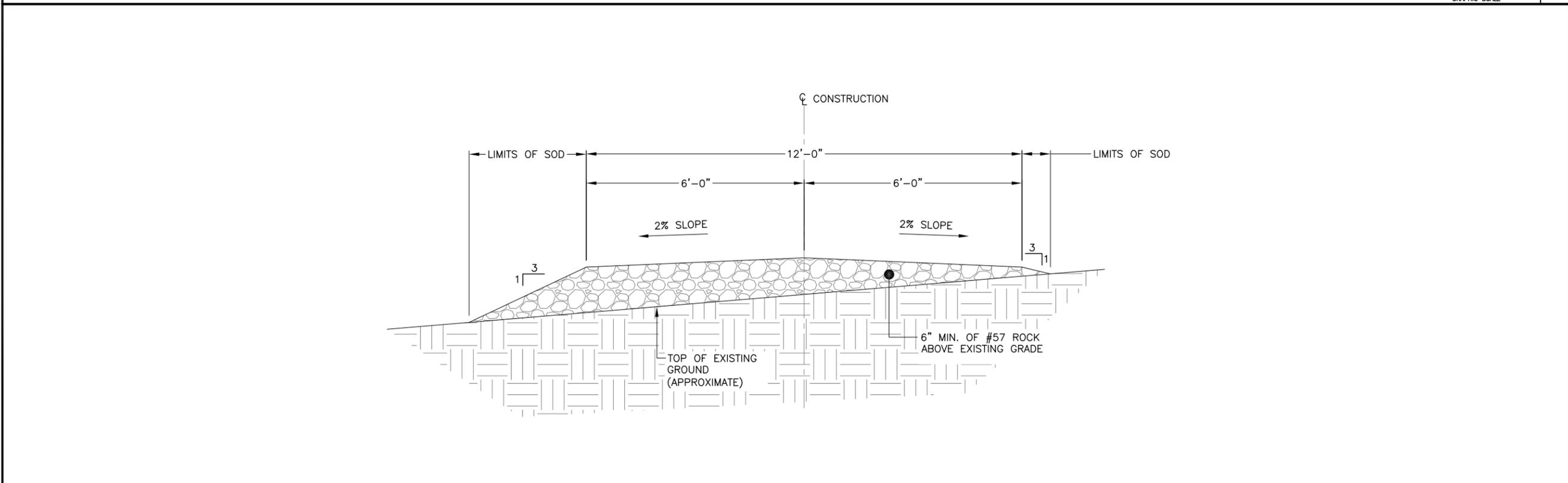
COMPOUND CROSS SECTION

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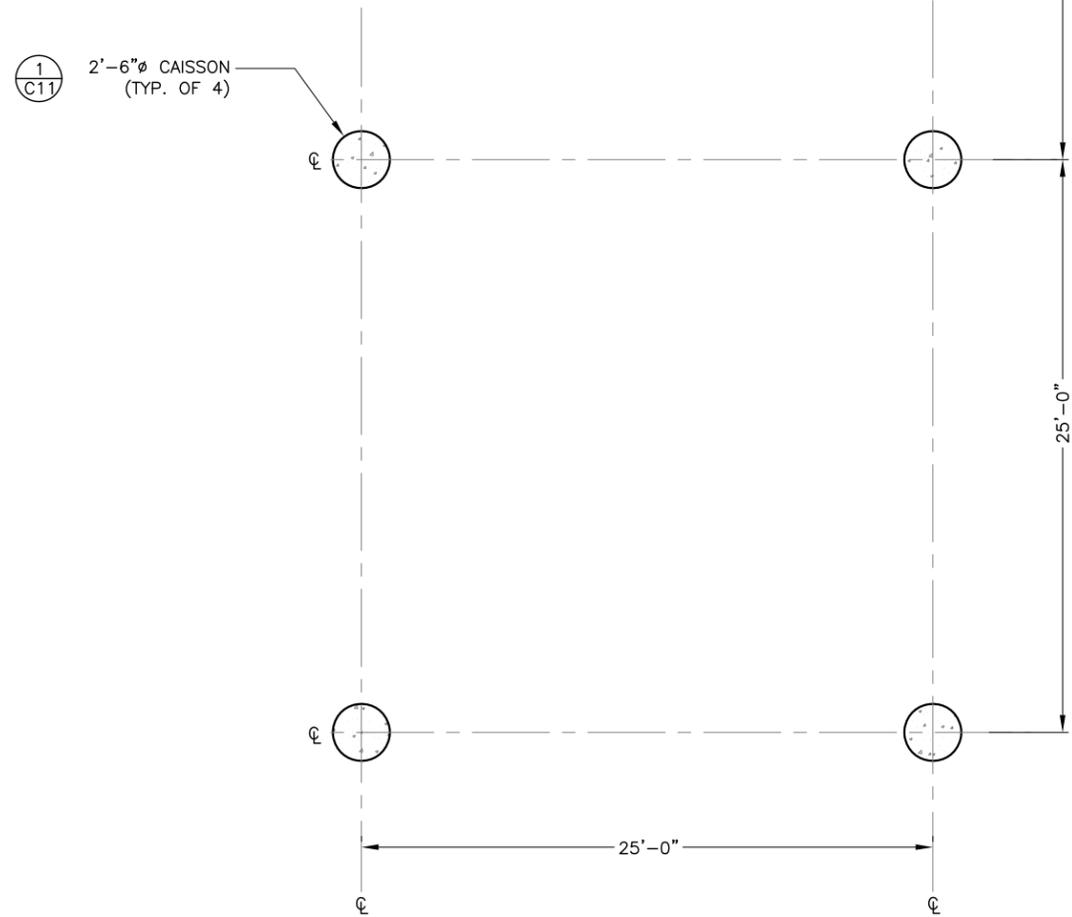
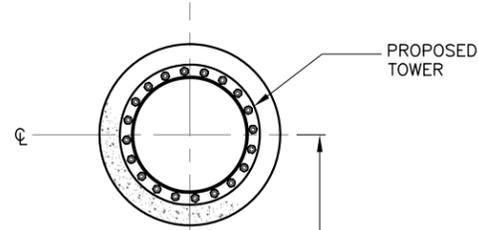
DRIVEWAY CROSS SECTION

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SHEET NAME
COMPOUND AND DRIVEWAY DETAILS

SHEET NUMBER
C8



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apx
ENGINEERING GROUP

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PHOENIX TOWER
INTERNATIONAL

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RIVER RANCH

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SHEET NAME

PLATFORM DETAILS

SHEET NUMBER

C9



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RIVER RANCH

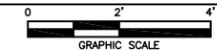
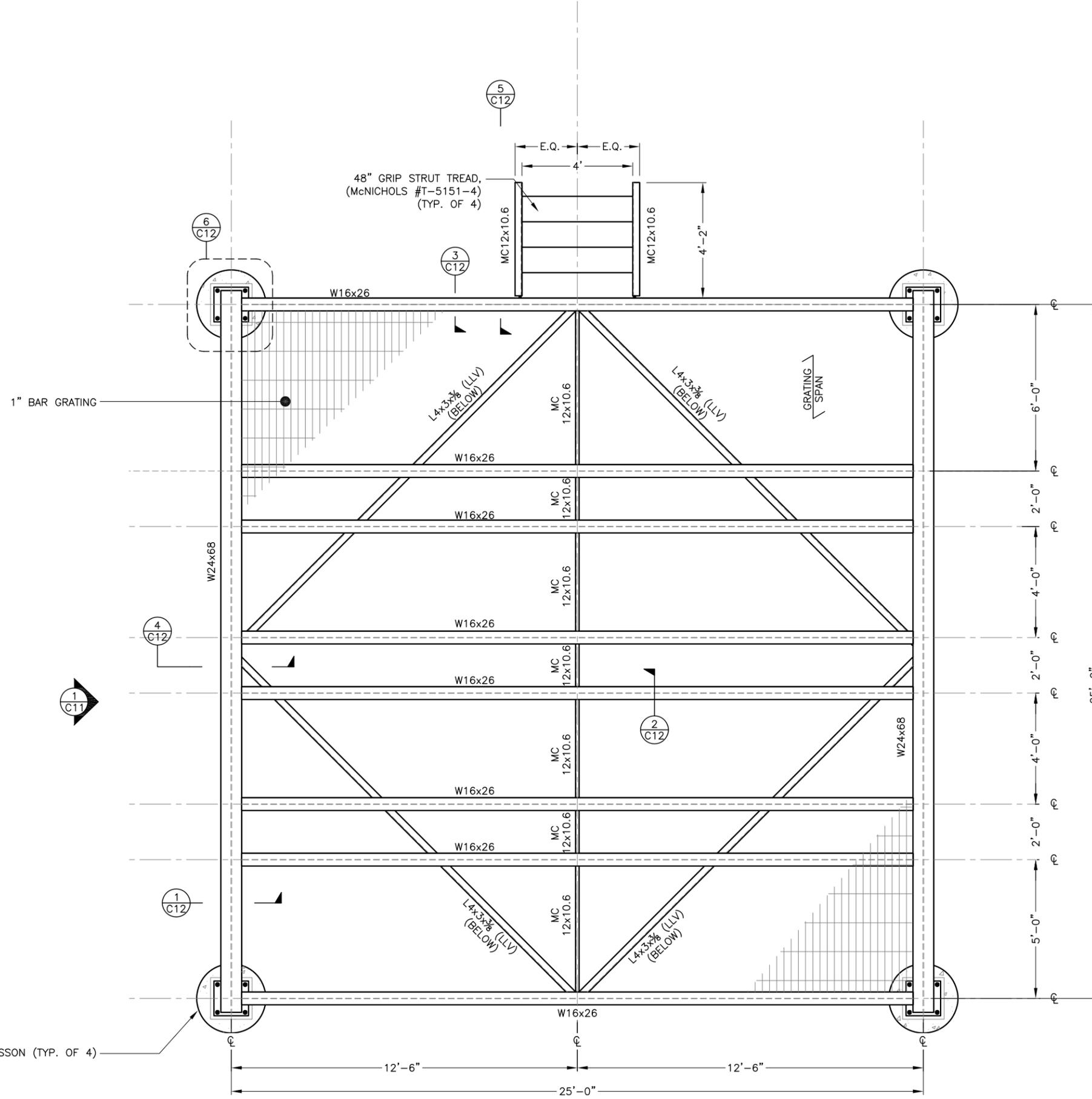
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SHEET NAME

PLATFORM DETAILS

SHEET NUMBER

C10

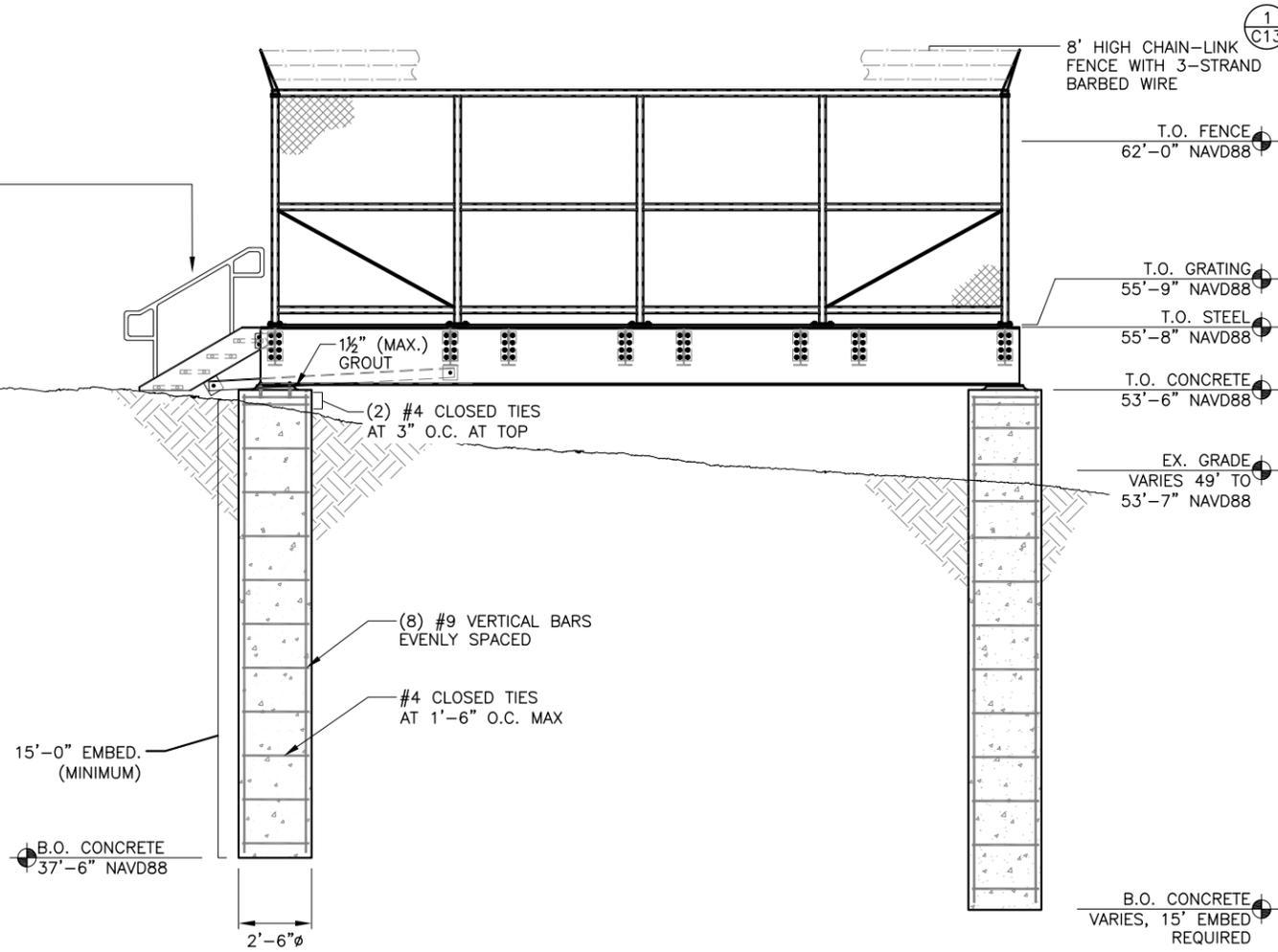




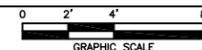
5
C12

EX. GRADE
53'-7" NAVD88

STAIR CASE



PLATFORM ELEVATION (SOUTH)



1

PLATFORM NOTES

2

1. STRUCTURAL DESIGN PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 7th EDITION (2020), FOR THE FOLLOWING CRITERIA:
 - A. V = 140 MPH (ULTIMATE, 3-SECOND GUST)
 - B. EXPOSURE "C".
 - C. RISK CATEGORY II
 - D. OPEN STRUCTURE
 - E. LIVE LOAD - MAINTENANCE ACCESS = 40 PSF OR 300 LBS
 - F. DESIGN CABINET WEIGHT = 2,500 LBS (EACH)
2. DIMENSIONS ARE APPROXIMATE AND FOR REFERENCE PURPOSES ONLY. ALL DIMENSIONS AND MATERIAL QUANTITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO FABRICATION.
3. CONTRACTOR SHALL SUBMIT TO ENGINEER NOTICE OF ANY INTENT TO DEVIATE FROM PLANS AND DETAILS FOR APPROVAL PRIOR TO START OF ANY WORK.
4. ALL ANCHORS INTO CONCRETE SHALL BE SIMPSON TITAN-HD SCREW ANCHORS. USE 3/4" DIAMETER GRADE 316 STAINLESS STEEL WITH 5-1/2" MINIMUM EMBEDMENT INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS BY CERTIFIED INSTALLERS PER ACI 318-14 SECTION 17.8.2.2, U.N.O.
5. PROVIDE 5,000 PSI NON-SHRINK LEVELING GROUT BELOW BASE PLATES, AS REQUIRED, TO A MAXIMUM OF 1" THICKNESS.
6. CONTRACTOR SHALL VERIFY THE LOCATION OF REINFORCEMENT PRIOR TO THE INSTALLATION OF ANY ANCHORS. THE ENGINEER SHALL BE NOTIFIED OF ANY CONFLICTS, ACCORDINGLY.
7. ALL U-BOLTS SHALL BE GALVANIZED ASTM A36.
8. ALL STRUCTURAL COMPONENTS, INCLUDING CLADDING AND GRATING, SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF ANY ANTENNA EQUIPMENT.
9. ALL STEEL ABRASIONS, FIELD CUTS, AND FIELD WELDS SHALL BE COATED WITH TWO LAYERS OF ZINC-RICH PAINT APPLIED IN ACCORDANCE WITH ASTM A780.
10. ALL CONCRETE WORK SHALL CONFORM TO THE FBC-ADOPTED EDITION OF THE ACI SPECIFICATIONS, CODES, AND STANDARDS.
11. ALL CONCRETE SHALL BE 4,000 PSI 28-DAY COMPRESSIVE STRENGTH, NORMAL WEIGHT, MAXIMUM AGGREGATE SIZE OF 3/4", 0.45 MAX. W/C, 4"-5" SLUMP.
 - A. CONCRETE CAST AGAINST EARTH.....3 IN.
 - B. CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:

#6 AND LARGER.....2 IN.	SLAB AND WALL.....3/4 IN.
#5 AND SMALLER & W.W.F....1 1/2 IN.	BEAM AND COLUMN.....1 1/2 IN.
12. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
 - A. CONCRETE CAST AGAINST EARTH.....3 IN.
 - B. CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:

#6 AND LARGER.....2 IN.	SLAB AND WALL.....3/4 IN.
#5 AND SMALLER & W.W.F....1 1/2 IN.	BEAM AND COLUMN.....1 1/2 IN.
13. STEEL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
14. ALLOWABLE SOIL PRESSURE ASSUMED TO BE 2000 PSF.
15. BACKFILL SOIL SHALL BE COMPACTED TO A MINIMUM OF 98% MODIFIED PROCTOR DENSITY PER ASTM D1557 METHOD C.
16. REFERENCE GENERAL NOTES ON SHEET T2 FOR ADDITIONAL INFORMATION.

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D	3/11/24	REVISED
O	3/14/24	FOR ZONING

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DRAWN BY:	O. JOHNSON
CHECKED BY:	M. ABBEY

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RIVER RANCH

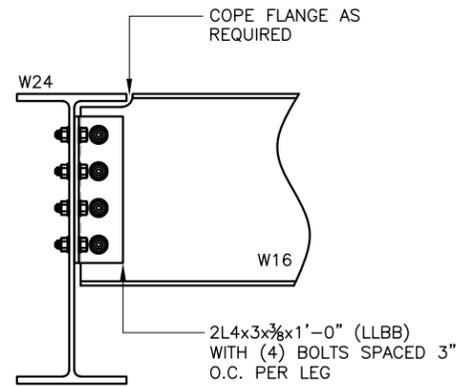
30529 RIVER RANCH BOULEVARD
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SHEET NAME

PLATFORM DETAILS
AND NOTES

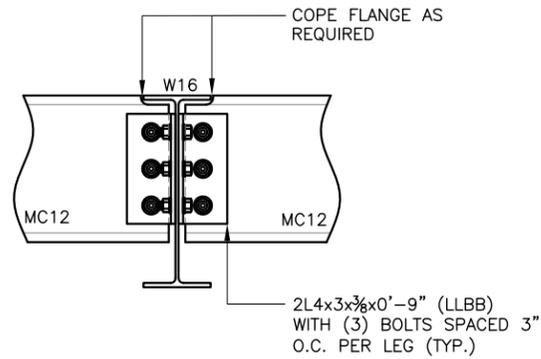
SHEET NUMBER

C11



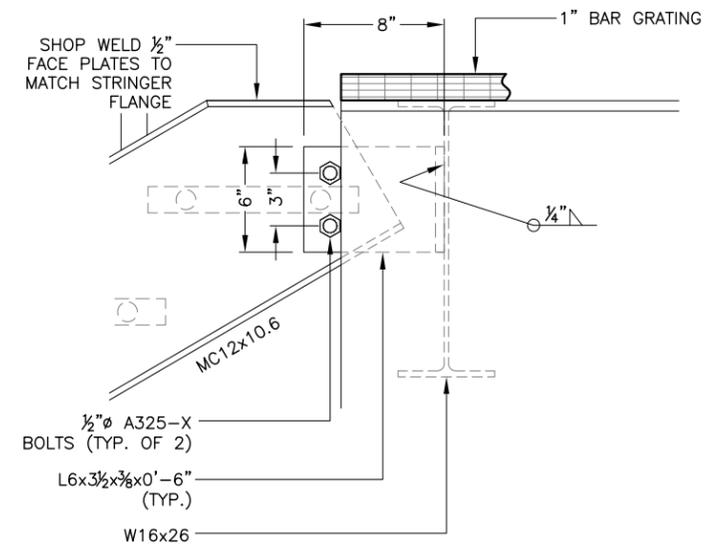
W16 TO W24 CONNX. (TYP.)

NTS 1



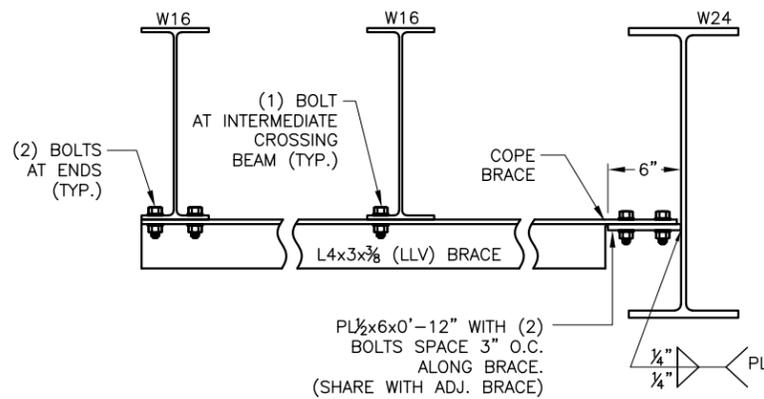
MC12 TO W6 CONNX. (TYP.)

NTS 2



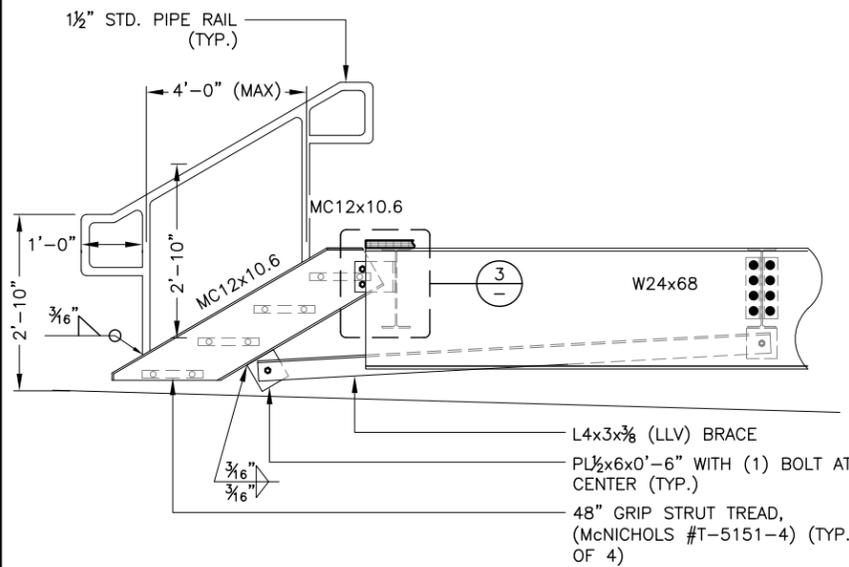
MC12 TO W16 CONNX. (STAIRS)

NTS 3



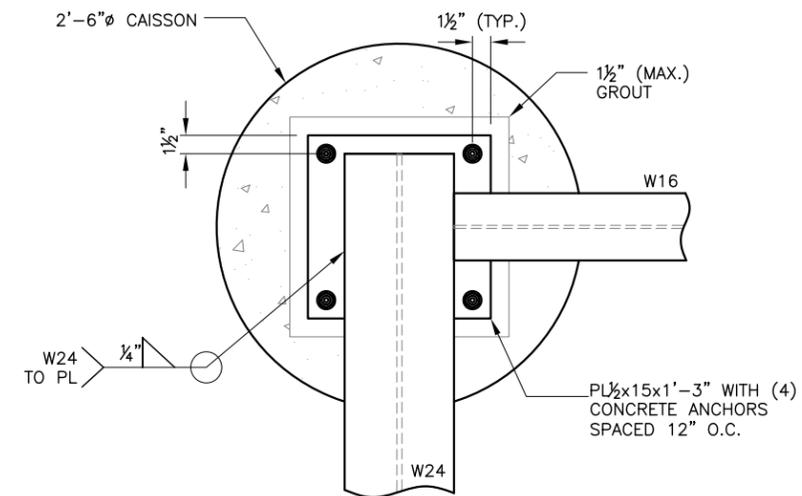
HORIZONTAL BRACE CONNX. (TYP.)

NTS 4



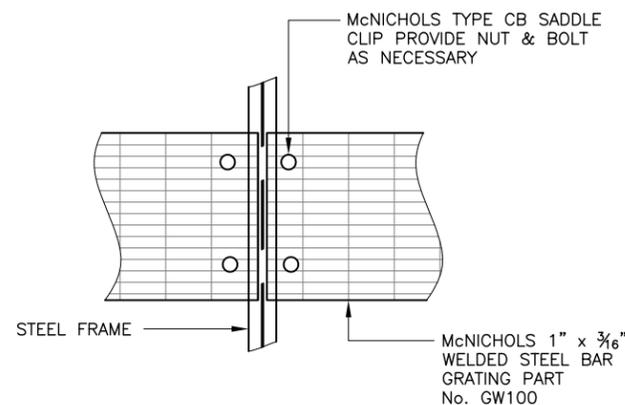
STAIR DETAIL (TYP.)

NTS 5



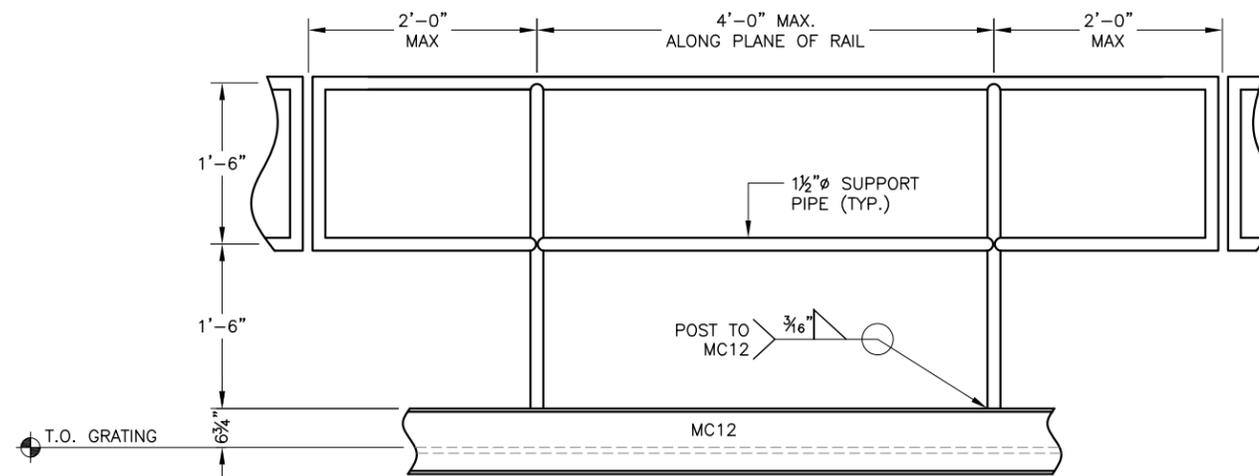
ANCHORAGE TO CAISSON (TYP.)

NTS 6



GRATING DETAIL

NTS 7



GUARDRAIL DETAIL

NTS 8

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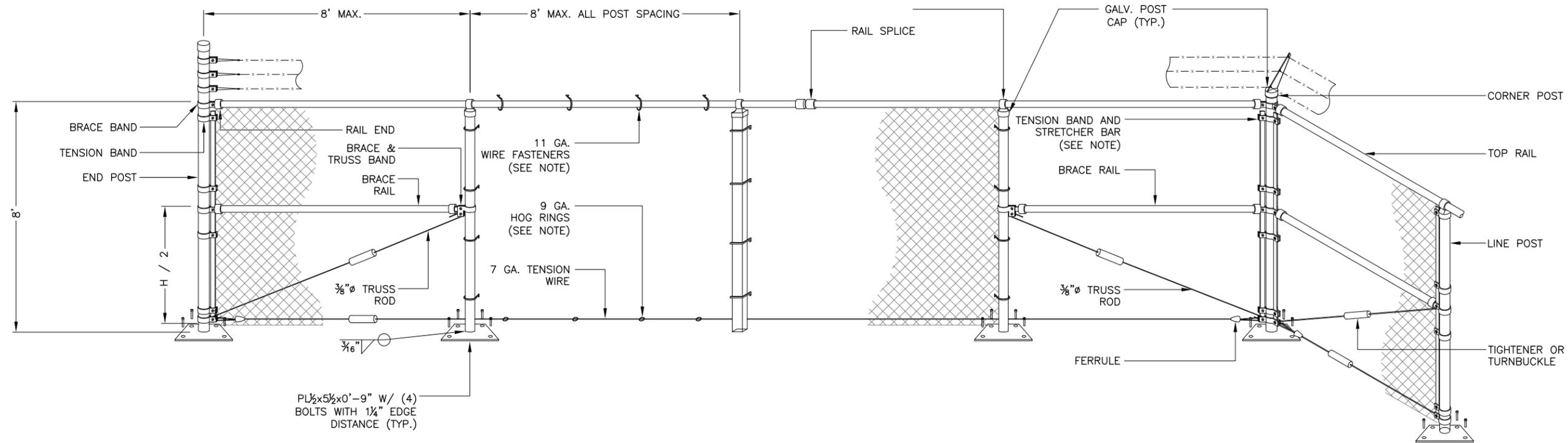
30529 RIVER RANCH BOULEVARD
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SHEET NAME

DETAILS

SHEET NUMBER

C12



PL $\frac{1}{2}$ x5 $\frac{1}{2}$ x0'-9" W/ (4)
BOLTS WITH 1 $\frac{1}{4}$ " EDGE
DISTANCE (TYP.)

NOTE:

ATTACH FABRIC TO ALL FENCE AND GATE
STRUCTURES AT 12" INTERVALS VERTICALLY
AND AT 20" INTERVALS HORIZONTALLY

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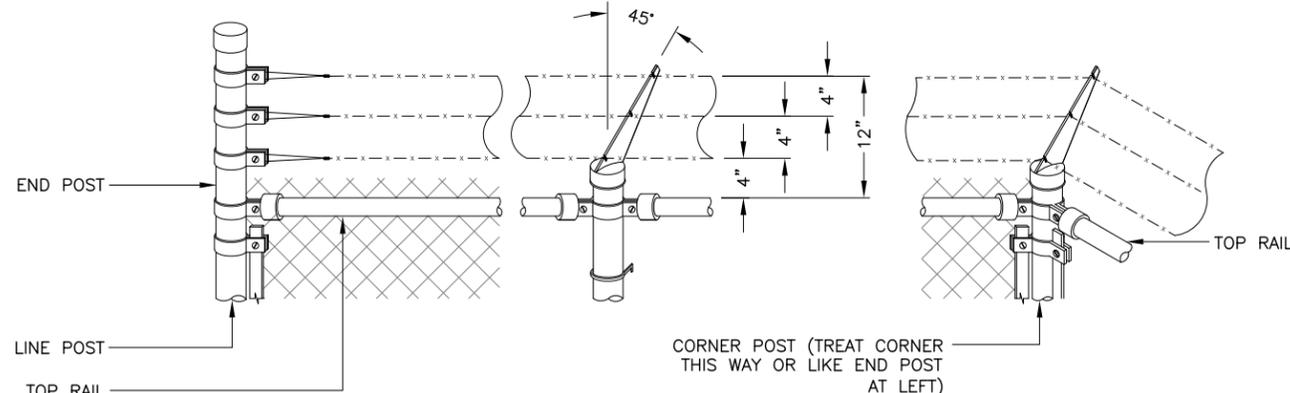


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FENCE DETAIL

NTS 1

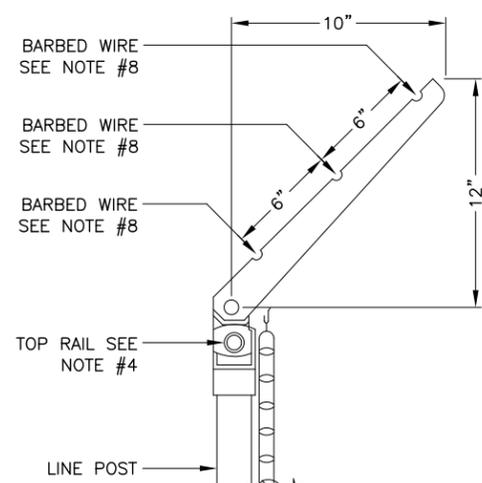


NOTES:

- SLOPE TOP OUT OF COMPOUND AT 45°.
- BARBED WIRE OVER GATES SHALL NOT BE SLOPED.

BARBED WIRE TOP DETAIL

NTS 2



BARBED WIRE SUPPORT DETAIL

NTS 3

- GATE POST, CORNER, TERMINAL OR PULL POST SHALL BE 2 $\frac{1}{8}$ " ϕ SCHEDULE 40 PIPE FOR GATE WIDTHS UPTO 6 FEET OR 12 FEET FOR DOUBLE SWING GATE PER ASTM-F1083.
- LINE POST: 2 $\frac{1}{8}$ " ϕ SCHEDULE 40 PIPE PER ASTM-F1083.
- GATE FRAME: 1 $\frac{1}{2}$ " ϕ SCHEDULE 40 PIPE PER ASTM-F1083. & ASTM F900.
- TOP RAIL & BRACE RAIL: 1 $\frac{3}{8}$ " ϕ SCHEDULE 40 PIPE PER ASTM-F1083.
- FABRIC: 2" MESH No. 9 GAGE GALVANIZED WIRE SECURELY FASTENED TO TENSION WIRE, LINE POST, BARS CONFORMING TO ASTM-A392, & AASHTO M 181.
- TIE WIRE: MINIMUM 11 GA GALVANIZED STEEL. INSTALL A SINGLE WRAP TIE WIRE AT POSTS AND RAILS AT MAX. 12" INTERVALS VERT & 20" HORIZ. INSTALL HOG RINGS ON TENSION WIRE AT 20" INTERVALS.
- TENSION WIRE: 7 GA. GALVANIZED STEEL.
- BARBED WIRE: 3 STRANDS OF DOUBLE STRANDED 12 $\frac{1}{2}$ GAUGE TWISTED WIRE, 4 PT. BARBS SPACED ON APPROXIMATELY 5" CENTERS CONFORMING TO AASHTO M 280.
- LOCAL ORDINANCE FOR BARBED WIRE PERMIT SHALL GOVERN INSTALLATION.
- INSTALL FENCING PER CURRENT BUILDING CODE

FENCE NOTES

4



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RIVER RANCH

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SHEET NAME

FENCE DETAILS

SHEET NUMBER

C13

<p>OPTIONAL</p> <p>HINGE</p> <p>STRAIN POST</p> <p>TENSION BANDS AND STRETCHER BAR AT EACH SIDE</p> <p>HORIZONTAL BRACE RAIL & 3/8" Ø TRUSS ROD FOR GATES 5' OR WIDER</p> <p>HINGE</p> <p>6"</p> <p>3' THRU 6' (REFER TO PLAN)</p> <p>END POST</p> <p>LATCH</p>		
(NOT USED)	2	(NOT USED) 3
MAN GATE DETAIL	NTS 1 (NOT USED)	4 (NOT USED) 5
(NOT USED)	6 (NOT USED)	7 (NOT USED) 8

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apx
ENGINEERING GROUP

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PHOENIX TOWER
INTERNATIONAL

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RIVER RANCH

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RIVER RANCH, FL 33867

SHEET NAME

GATE DETAILS

SHEET NUMBER

C14

A – GENERAL

- A1. ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (EDITION ADOPTED BY LOCAL JURISDICTION) AND APPLICABLE LOCAL CODES.
- A2. GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRIC CODE.
- A3. ALL ELECTRICAL EQUIPMENT AND ACCESSORIES SHALL BE U.L. APPROVED OR LISTED.
- A4. ALL POWER WIRING SHALL BE STRANDED COPPER, TYPE THHN/THHW AND 90 DEGREES C RATED.
- A5. ALL POWER WIRING SHALL BE INSTALLED IN GALVANIZED RIGID STEEL CONDUIT, PVC, OR FLEXIBLE LIQUIDTIGHT CONDUIT, AS INDICATED.
- A6. CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY PERMIT FEES, AND SCHEDULE INSPECTIONS.
- A7. CONTRACTOR SHALL APPLY FOR ELECTRICAL SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS, SERVICE ROUTING, AND METER SOCKET TYPE WITH LOCAL POWER COMPANY.
- A8. CONTRACTOR SHALL APPLY FOR TELEPHONE SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS AND SERVICE ROUTING WITH TELEPHONE COMPANY.
- A9. PROVIDE ALL LABOR AND MATERIAL DESCRIBED ON THIS DRAWING, AND ALL ITEMS INCIDENTAL TO COMPLETING AND PRESENTING THIS PROJECT AS FULLY OPERATIONAL.
- A10. WHERE LONG POWER CABLE RUNS PREVAIL, CONTRACTOR SHALL CALCULATE THE VOLTAGE DROP AND SIZE WIRES AND CONDUIT ACCORDINGLY.
- A11. WHERE TRANSFORMER IS REQUIRED FOR ELECTRICAL SERVICE, TRANSFORMER SECONDARY SHALL BE GROUNDED PER N.E.C., ARTICLE 250-26.
- A12. ALL ELECTRICAL DEVICES EXPOSED TO WEATHER SHALL BE OF RAINPROOF CONSTRUCTION AND SHALL REQUIRE WATER TIGHT CONDUIT HUBS.

B – POWER CABLE AND SERVICE

- B1. CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING TO BTS AND VERIFY EXACT CONDUIT ROUTING. RACEWAY SYSTEM MATERIALS AND DEVICES FURNISHED SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARDS OF ANSI, NEMA, AND UL. RACEWAY SYSTEM COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE N.E.C.

- B2. CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH WALLS, FLOORS AND ROOFS TO PREVENT MOISTURE PENETRATION OR VERMIN INFESTATION.
- B3. CONDUCTORS RUNNING ALONG HORIZONTAL SURFACES (ROOF TOP OR SLAB) SHALL BE INSTALLED IN RIGID CONDUIT SUPPORTED ON SLEEPERS.
- B4. ALL VERTICAL RUNS OF POWER CABLE EXCEEDING 80 FEET IN LENGTH SHALL BE SUPPORTED PER N.E.C. ARTICLE 300 USING KELLEMS GRIPS OR ACCEPTABLE EQUAL CABLE SUPPORT SYSTEM.
- B5. WHERE A SEPARATE ELECTRICAL SERVICE DROP IS ADDED, CONTRACTOR SHALL INSTALL PERMANENT SERVICE DISCONNECT OR GROUPING THEREOF, DENOTING ALL OTHER SERVICE ENTRANCES, LOCATION OF EACH AND THE AREAS SERVED BY EACH.
- B6. WHERE ELECTRICAL POWER IS TO BE SUB-FED FROM AN EXISTING DISTRIBUTION SYSTEM, THE FOLLOWING SHALL APPLY:
 - A) CONTRACTOR SHALL PERFORM LOAD TESTING TO DETERMINE MAXIMUM FEEDER DEMAND PER N.E.C. ARTICLE 220-87.
 - B) CONTRACTOR SHALL VERIFY WHETHER EXISTING FEEDER CAPACITY EXCEEDS VALUE CALCULATED PER N.E.C. ARTICLE 220-87.
 - C) EACH BRANCH CIRCUIT PROTECTIVE DEVICE SHALL HAVE SAME INTERRUPTING RATING AS EQUIPMENT SUPPLYING IT.
 - D) PREFERRED MEANS OF SUPPLY SHALL BE A BRANCH CIRCUIT PROTECTIVE DEVICE LOCATED IN EXISTING PANEL.
 - E) IF A BRANCH CIRCUIT PROTECTIVE DEVICE CANNOT BE OBTAINED OR SPACE IS NOT AVAILABLE, A BRANCH CIRCUIT MAY BE TAPPED FROM EXISTING FEEDER CONDUCTORS USING AN INSTALLED 2-POLE FUSED DISCONNECT AND METER BASE PER N.E.C. ARTICLE 240-21 WITH TEN FOOT (10) MAXIMUM TAP CONDUCTORS. FUSED DISCONNECT SHALL BE LISTED SAME OR BETTER INTERRUPTING RATING AS EXISTING SOURCE OF SUPPLY

C – IDENTIFICATION

- C1. LOCATE NAMEPLATE, MARKING, OR OTHER IDENTIFICATION MEANS ON OUTSIDE EQUIPMENT OR BOX FRONT COVERS.
- C2. PROVIDE NAMEPLATE ENGRAVED WITH EQUIPMENT DESIGNATION FOR EACH SAFETY SWITCH AND ALL OTHER ELECTRICAL CABINETS, ETC.
- C3. DURING TRENCH BACK-FILLING FOR EACH UNDERGROUND ELECTRICAL, TELEPHONE, SIGNAL AND COMMUNICATIONS LINE, PROVIDE A CONTINUOUS UNDERGROUND WARNING TAPE TWELVE INCHES BELOW FINISHED GRADE.

ELECTRICAL NOTES

1

A – GENERAL

- A1. INSTALLATION OF GROUNDING ELECTRODE SYSTEM SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRIC CODE AND WITH ALL BUILDING CODES OF AUTHORITIES HAVING JURISDICTION.
- A2. GROUNDING CONDUCTORS SHALL BE #2 AWG TINNED SOLID BARE COPPER BELOW AND ABOVE GRADE, UNLESS OTHERWISE NOTED AND SHALL BE ROUTED IN A DOWNWARD PATH TOWARDS GROUND BARS.
- A3. GROUNDING CONDUCTORS SHALL BE KEPT AS SHORT AND DIRECT AS POSSIBLE WITH MINIMUM BEND RADIUS OF 12 INCHES.
- A4. ALL BELOW GRADE CONNECTIONS SHALL BE CADWELD TYPE CONNECTIONS AND ALL CONNECTIONS TO EQUIPMENT AND GROUND BARS SHALL BE 2-HOLE BRONZE COMPRESSION CONNECTORS UNLESS OTHERWISE NOTED.
- A5. GROUNDING CONDUCTORS SHALL BE BONDED TO CABLE SUPPORTS, ANTENNA FRAMES, AND ANY SUPPORT FRAMES OR RACKS USING EXOTHERMIC WELDS OR MECHANICAL CONNECTIONS.
- A6. CONTRACTOR SHALL PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS, STAINLESS STEEL HARDWARE SHALL BE USED THROUGHOUT.
- A7. GROUNDING CONDUCTORS EMBEDDED IN CONCRETE OR PENETRATING WALLS AND FLOORS SHALL BE ENCASED IN PVC CONDUIT. NO METALLIC CONDUIT SHALL BE USED FOR GROUNDING CONDUCTORS UNLESS REQUIRED BY LOCAL CODES OR OTHERWISE INDICATED ON DRAWINGS. CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS TO PREVENT MOISTURE PENETRATION AND VERMIN INFESTATION.
- A8. BONDING OF GROUNDED CONDUCTOR (NEUTRAL) AND GROUNDING CONDUCTOR SHALL BE AT SERVICE DISCONNECTING MEANS. BONDING JUMPER SHALL BE INSTALLED PER N.E.C. ARTICLE 250-28.
- A9. CONTRACTOR SHALL VERIFY EXACT CONDUIT ROUTING FOR GROUNDING CONDUCTORS WHERE APPLICABLE.
- A10. DOUBLING OR STACKING OF ANY GROUNDING CONNECTIONS IS NOT ACCEPTABLE.

B – PREPARATION

- B1. SURFACES: ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD INSPECTED TO ENSURE PROPER CONTACT. ALL GALVANIZED SURFACES ON WHICH GALVANIZING HAS BEEN REMOVED BY CUTTING, DRILLING, OR ANY OTHER OPERATION SHALL BE RE-GALVANIZED IN ACCORDANCE WITH ASTM A780 USING "ZINC RICH" COATING AS MANUFACTURED BY ZRC CHEMICAL PRODUCTS COMPANY (LOCATED IN QUINCY, MASSACHUSETTS), OR ACCEPTABLE EQUAL. NO WASHERS ARE ALLOWED BETWEEN ITEMS BEING GROUNDED. ALL CONNECTIONS ARE TO HAVE A NON-OXIDIZING AGENT ("COPPER SHIELD") APPLIED PRIOR TO INSTALLATION.
- B2. GROUND BAR: ALL COPPER GROUND BARS SHALL BE CLEANED, POLISHED AND A NON-OXIDIZING AGENT ("COPPER SHIELD") APPLIED. NO FINGER PRINTS OR DISCOLORED COPPER SHALL BE PERMITTED.

C – LAND BUILDS AND CO-LOCATES

- C1. WAVEGUIDE BRIDGE SHALL BE BONDED TO GROUND RINGS OR INTERCONNECTING CONDUCTORS WITH GROUNDING CONDUCTORS BONDED TO DIAGONALLY OPPOSED SUPPORT POSTS.
- C2. GROUND BARS SHALL BE BONDED TO GROUND RING WITH SINGLE GROUNDING CONDUCTOR.
- C3. BONDS TO ANTENNA MASTS, FENCE POSTS, WAVEGUIDE BRIDGE, TOWER STEEL (UNLESS PROHIBITED BY TOWER MANUFACTURER) AND THOSE BELOW GRADE SHALL BE EXOTHERMIC TYPE (CADWELD). ALL OTHER BONDS SHALL BE BRONZE 2-HOLE COMPRESSION FITTINGS UNLESS OTHERWISE NOTED.

TOWER GROUNDING REQUIREMENTS

- T1. COAX CABLE OUTER CONDUCTORS (SHIELDS) SHALL BE GROUNDED USING COAX GROUNDING KITS AT A MINIMUM OF TWO POINTS, INCLUDING AT ANTENNA AND AT MASTER GROUND BAR. THE COAXIAL CABLE SHALL NOT EXCEED 100 FEET BETWEEN GROUNDING KITS.
- T2. COAX CABLE ENTERING A BUILDING SHALL BE GROUNDED WITH COAX GROUNDING KITS TO AN INSULATED COAX GROUND BAR WHICH SHALL BE INSTALLED ON THE OUTSIDE FACE OF THE BUILDING, BELOW THE CABLE ENTRY PORTS.
- T3. WHEN COAX CABLES ENTER A BUILDING FROM A TOWER, THE COAX GROUND BAR AT THE BUILDING SHALL BE CONNECTED TO THE EXTERNAL GROUND RING USING #2 AWG BARE TINNED SOLID COPPER ISOLATED IN PVC CONDUIT.

GROUNDING NOTES

2

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SHEET NAME

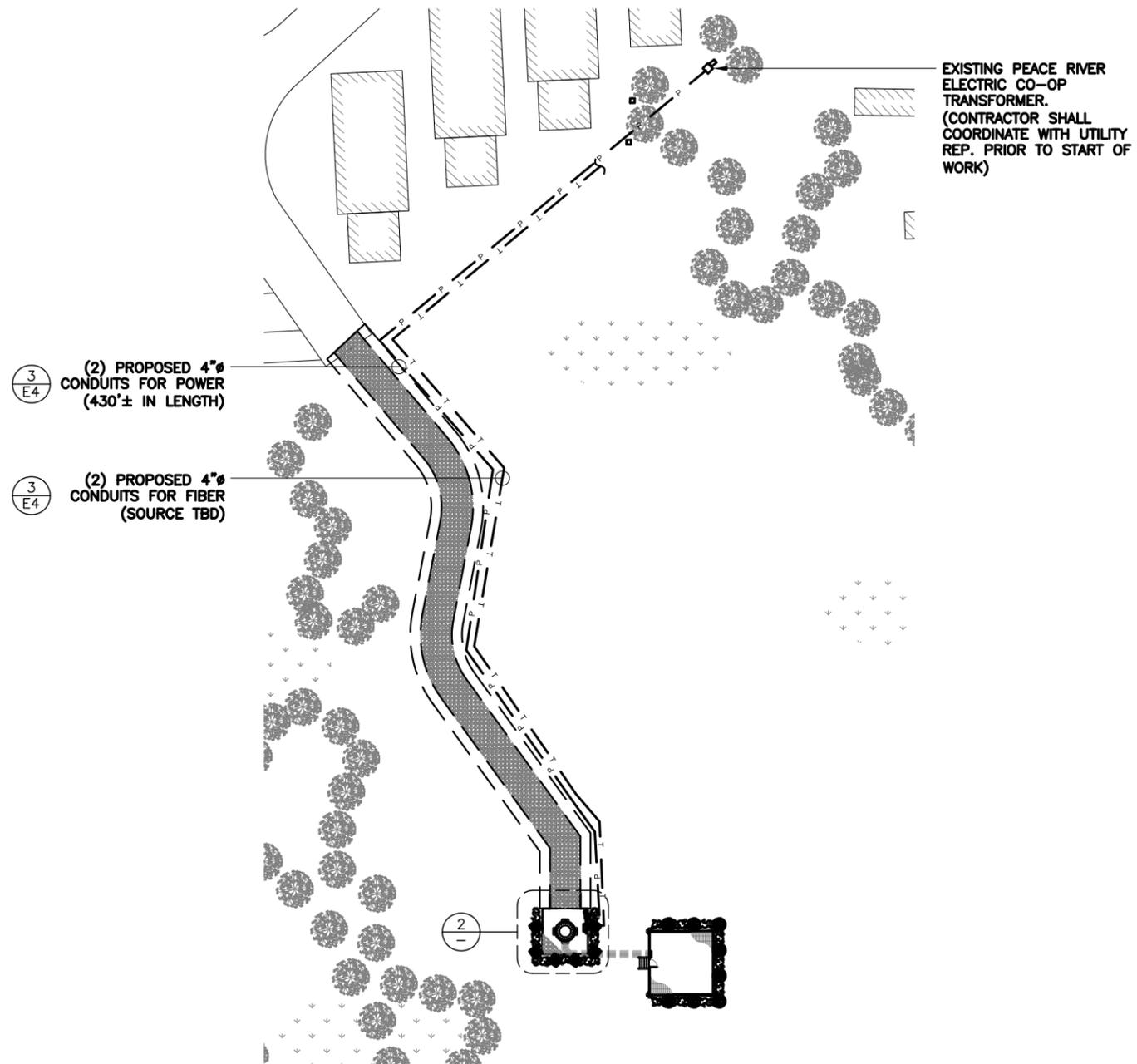
ELECTRICAL AND GROUNDING NOTES

SHEET NUMBER

E1

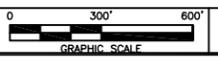


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IT'S THE LAW !
1-800-432-4770
SUNSHINE STATE ONE CALL OF FLORIDA, INC.



NOTE:
PROPOSED CONDUIT ROUTING IS SCHEMATIC ONLY, CONTRACTOR SHALL DETERMINE SUITABLE ROUTING IN THE FIELD.

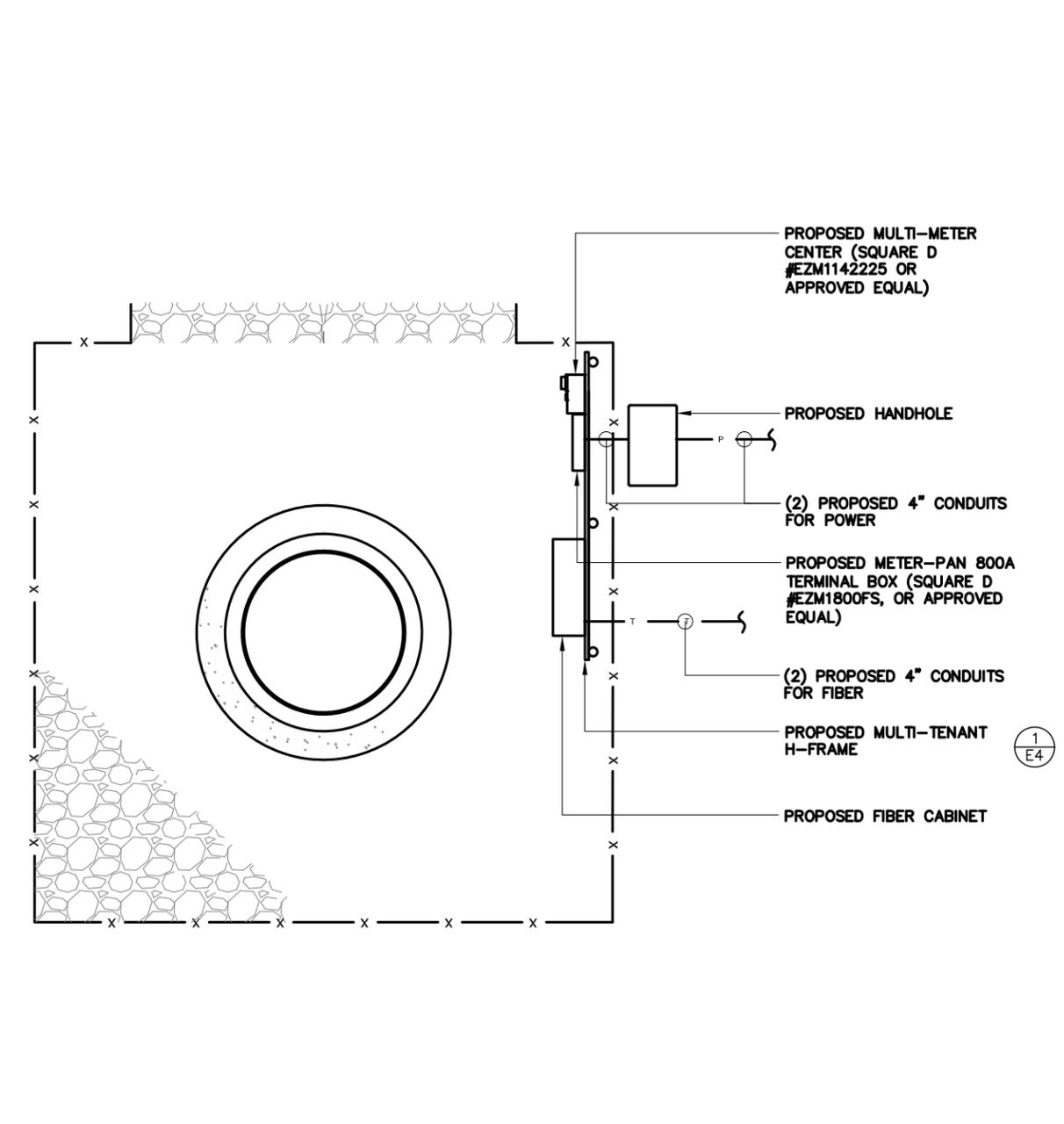
UTILITY ROUTING SITE PLAN



1



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UTILITY ROUTING COMPOUND PLAN



2

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US-FL-1275
RIVER RANCH
30529 RIVER RANCH BOULEVARD RIVER RANCH, FL 33867
SHEET NAME
UTILITY ROUTING PLANS
SHEET NUMBER
E2

REV	DATE	DESCRIPTION
A	4/13/23	PRELIMINARY
B	11/8/23	REVISED
C	2/28/24	REVISED
D	3/11/24	REVISED
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APX PROJECT NO.:	20-0256.01
DRAWN BY:	O. JOHNSON
CHECKED BY:	M. ABBEY

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apx
ENGINEERING GROUP

14471 MIRAMAR PARKWAY, SUITE 202
MIRAMAR, FL 33027
(954) 744-1538

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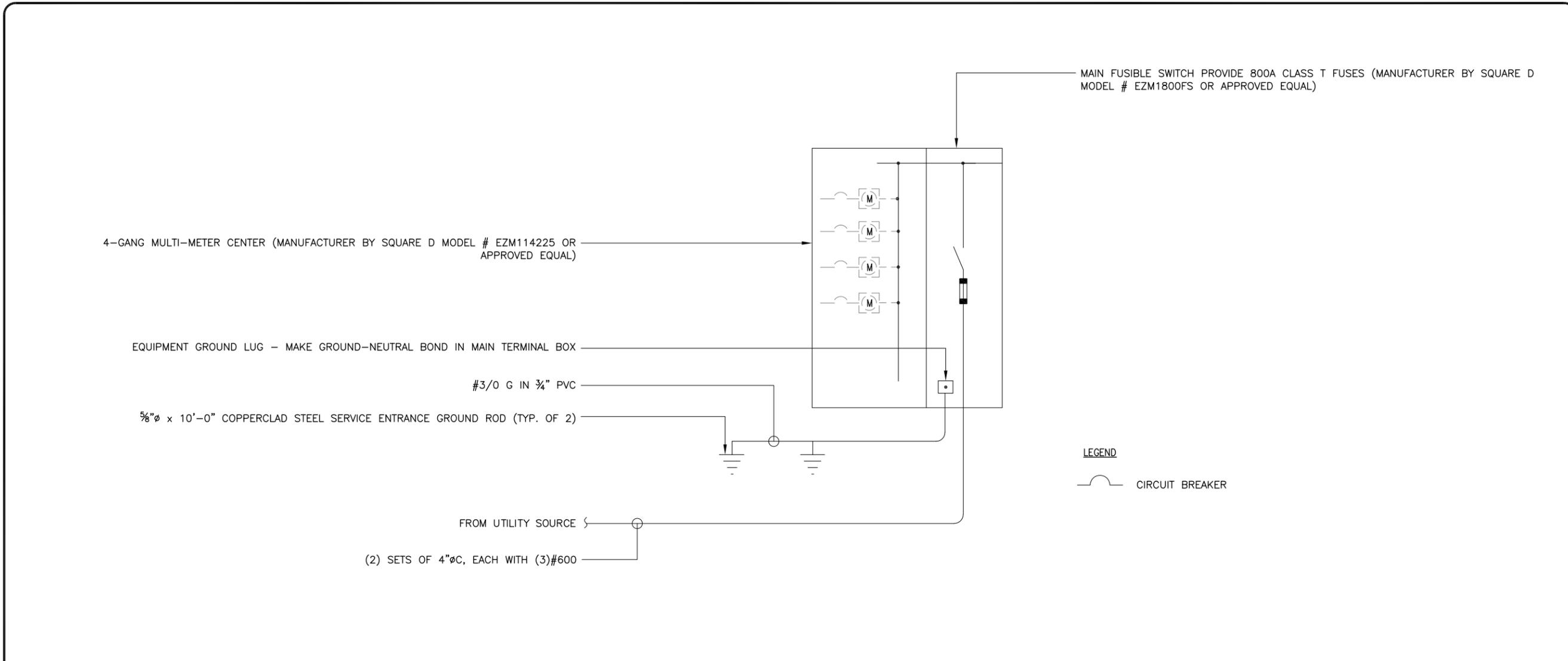
PHOENIX TOWER
INTERNATIONAL

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SHEET NAME
ONE-LINE DIAGRAM

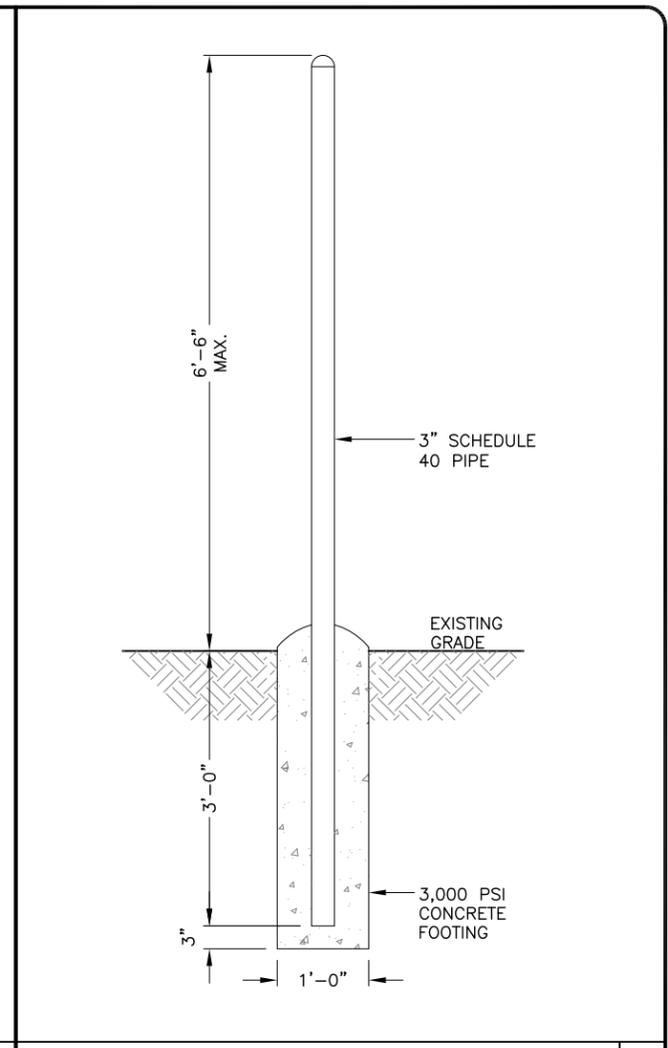
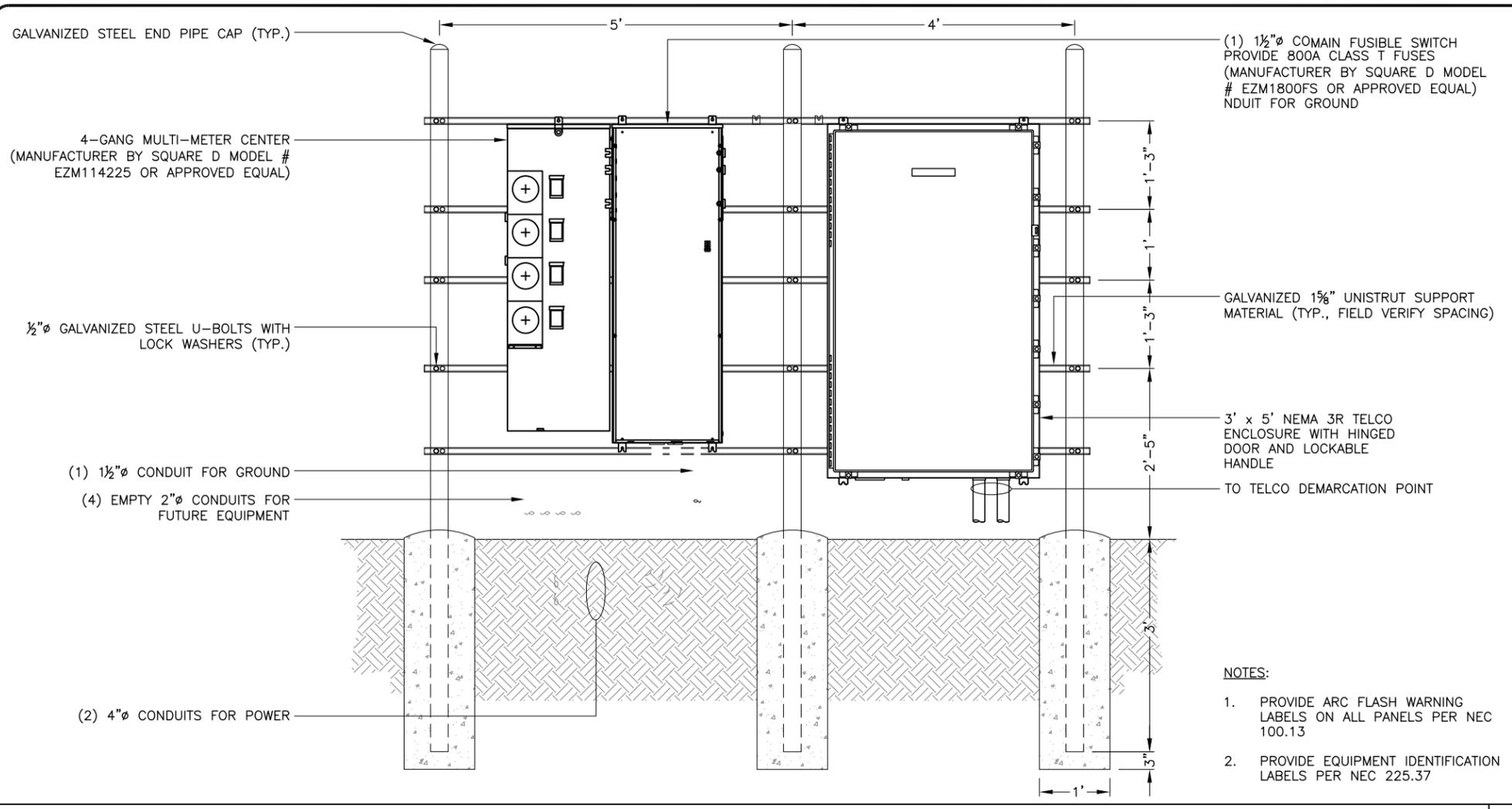
SHEET NUMBER
E3



ONE-LINE DIAGRAM NTS 1

(NOT USED)

2

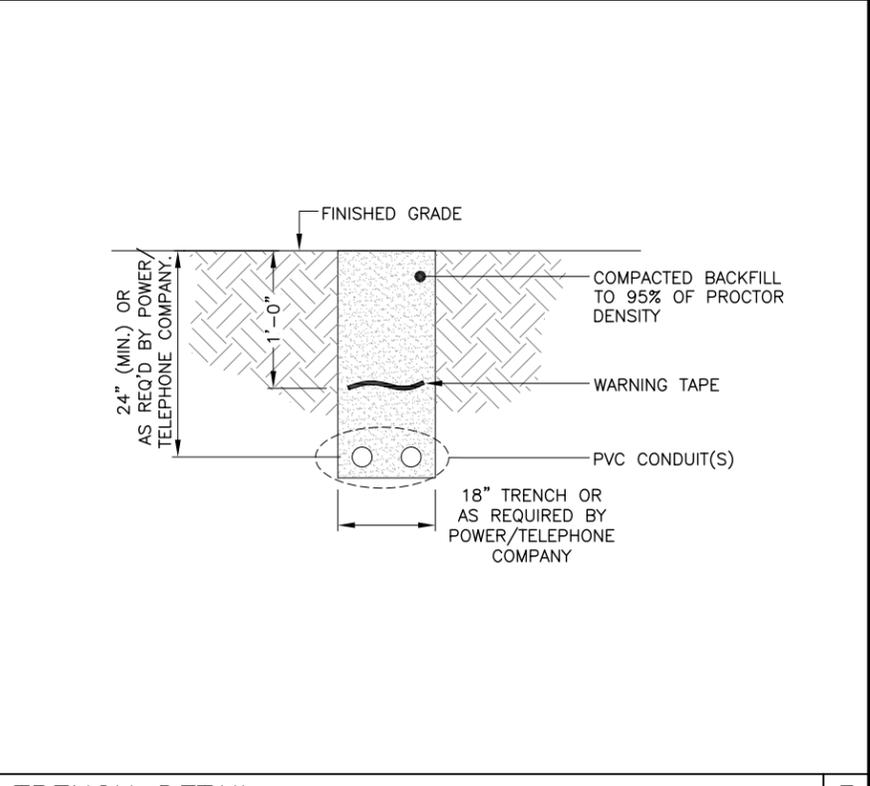


UTILITY RACK DETAIL

NTS 1

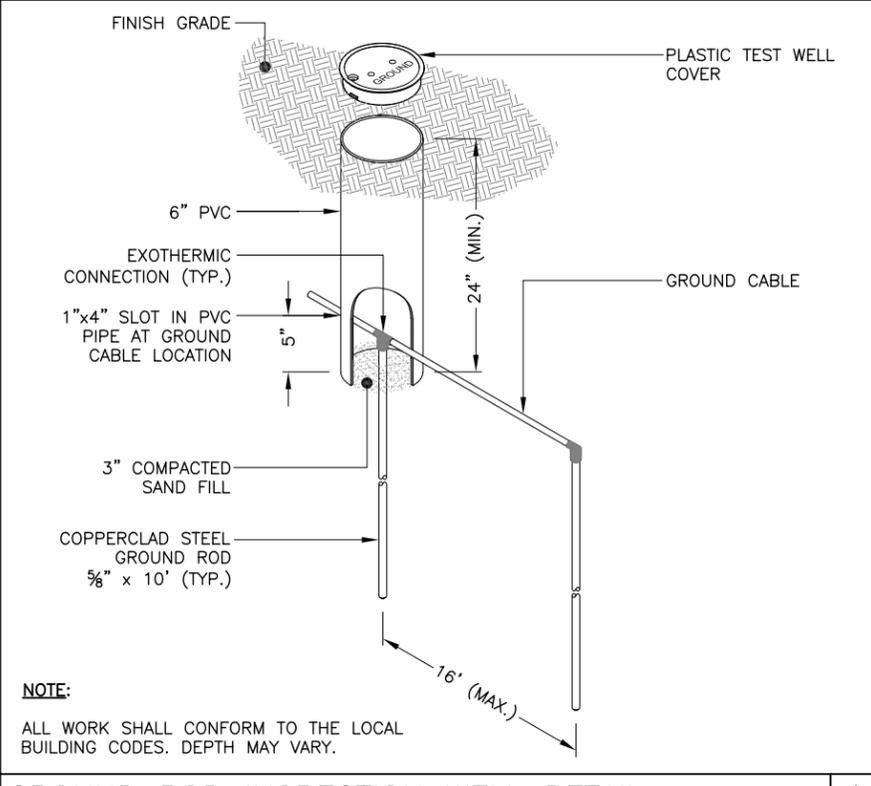
UTILITY RACK POST DETAIL

NTS 2



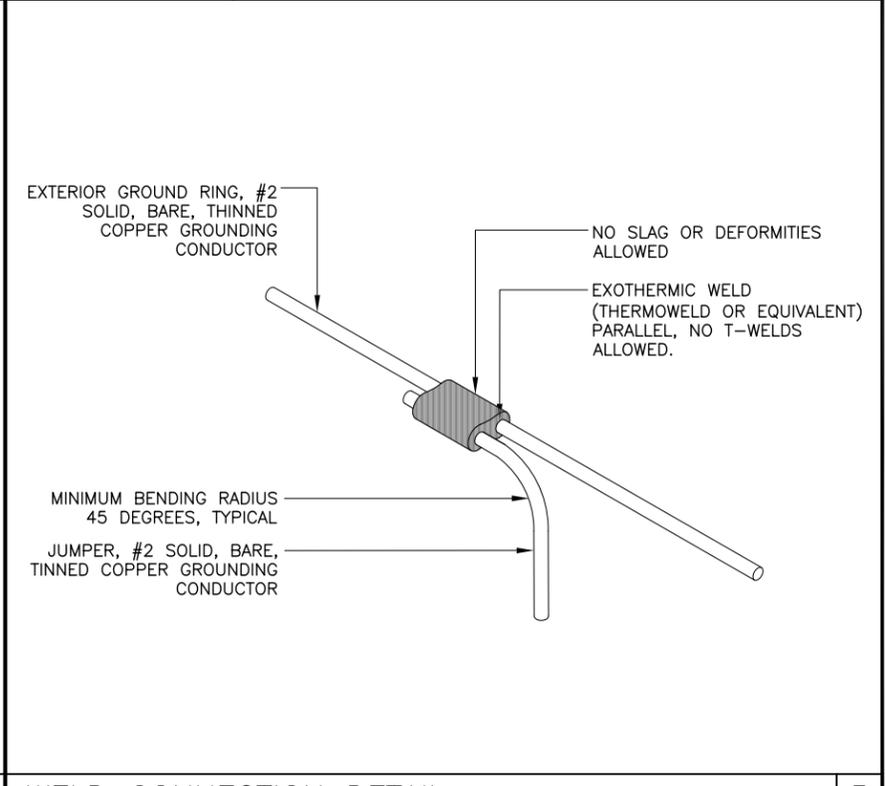
TRENCH DETAIL

NTS 3



GROUND ROD INSPECTION WELL DETAIL

4



WELD CONNECTION DETAIL

NTS 5

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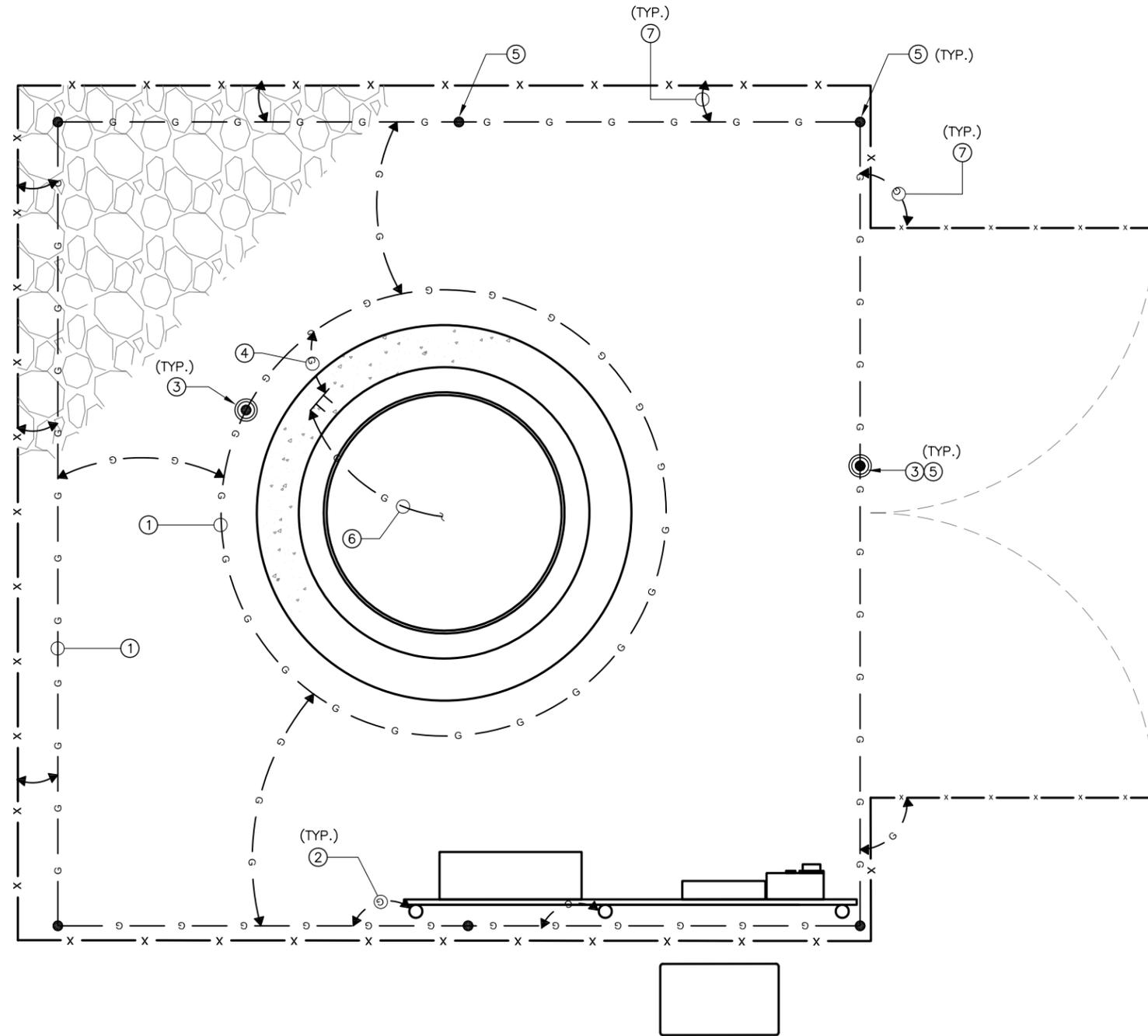
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RIVER RANCH
30529 RIVER RANCH BOULEVARD
RIVER RANCH, FL 33867

SHEET NAME
ELECTRICAL DETAILS

SHEET NUMBER
E4

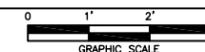


GROUNDING KEY NOTES:

- ① PROVIDE A #2 AWG SOLID BARE TINNED COPPER GROUND RING AROUND THE FENCED COMPOUND, TOWER AS SHOWN. ALL EXTERIOR GROUNDING CONDUCTORS SHALL BE BURIED A MINIMUM OF 30" BELOW GRADE. THE GROUND RING SHALL BE INSTALLED 1'-0" AWAY FROM FOUNDATIONS (MINIMUM UNLESS SHOWN OTHERWISE ON DRAWINGS). WHERE REQUIRED DUE TO SOIL CONDITIONS AND THE PRESENCE OF ROCK, THE ROUTING OF THE GROUND RING MAY BE ADJUSTED. ALL BONDS TO THE BURIED GROUND RING SHALL BE WITH EXOTHERMIC WELDS.
- ② BOND UTILITY RACK POSTS TO BURIED GROUND RING. EXOTHERMICALLY WELD A #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO EACH POST AT 12" ABOVE GRADE AND CONNECT TO THE BURIED GROUND RING. PROVIDE CONDUCTOR LENGTH AS REQUIRED TO MAKE CONNECTION.
- ③ PROVIDE 6" DIAMETER PVC INSPECTION SLEEVE WITH REMOVABLE COVER IN LOCATION SHOWN. SEE GROUND ROD INSPECTION WELL DETAIL 4, SHEET E-4, FOR TYPICAL GROUND RING INSPECTION SLEEVE. NOTE: INSPECTION SLEEVE CAN BE USED AS A TEST WELL FOR GROUND WATER LEVEL INSPECTION AND GROUND RESISTANCE TESTING.
- ④ INSTALL GROUNDING CONDUCTOR(S) FROM THE BURIED GROUND RING FOR CONNECTION TO THE GROUND BAR AT BOTTOM OF TOWER. VERIFY EXACT LOCATION OF GROUNDING BAR AND PROPER CONDUCTOR LENGTH. EXOTHERMICALLY WELD (2) #2 AWG SOLID BARE TINNED COPPER GROUNDING CONDUCTOR (LENGTH AS REQUIRED) TO THE GROUND BAR. GROUNDING CONDUCTORS MUST BE HELD AWAY FROM TOWER BY USING STANDOFFS OR ROUTING THE CONDUCTORS IN FLEXIBLE PVC CONDUIT. COORDINATE LOCATION WITH CONSTRUCTION MANAGER.
- ⑤ INSTALL 5/8" x 10' LONG COPPERCLAD STEEL GROUND RODS. SPACING BETWEEN RODS NOT TO EXCEED 16' (NONLINEAR). TYPICAL FOR ALL GROUND RODS SHOWN, UNLESS NOTED OTHERWISE. SEE GROUND ROD INSPECTION WELL DETAIL, SHEET E-4. IF ROCK IS ENCOUNTERED, GROUND ROD MAY BE INSTALLED WITH A MAXIMUM VARIATION OF 30' FROM VERTICAL AND CONTRACTOR SHALL BE PREPARED TO CORE DRILL TO INSTALL GROUND RODS AND BACKFILL WITH GROUND ENHANCEMENT MATERIAL.
- ⑥ (NOT USED)
- ⑦ BOND ALL FENCE POSTS TO BURIED GROUND RING. EXOTHERMICALLY WELD A #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO THE FENCE POST WITHIN 6' OF GROUND RING. PROVIDE CONDUCTOR LENGTH AS REQUIRED TO MAKE CONNECTION. BOND FENCE POST TO FENCE GATE AS SHOWN USING A WELDING CABLE GROUNDING STRAP.

NOTES:

1. GROUNDING PLAN SHOWN IS FOR SCHEMATIC USE ONLY.
2. CONTRACTOR SHALL USE THIS GROUNDING PLAN AS A REFERENCE FOR EACH SPECIFIC SITE.



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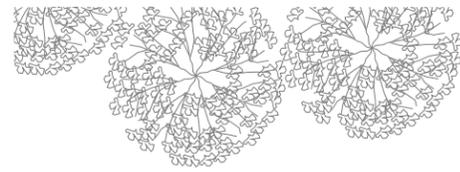
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US-FL-1275
RIVER RANCH
30529 RIVER RANCH BOULEVARD RIVER RANCH, FL 33867
SHEET NAME
GROUNDING DETAILS
SHEET NUMBER
E5



CHR
44

QUE
6

CUP
8

PROPOSED PHOENIX TOWER 150'±
MONOPOLE

1
C10

PROPOSED 1' HIGH STEEL STAIRS (TYP.)

PROPOSED LANDSCAPING

1
C10

PROPOSED PHOENIX TOWER 25' x 25'
STEEL PLATFORM AND LEASE AREA W/
8'± HIGH CHAIN-LINK FENCE W/
3-STRAND BARBED WIRE (APPROX. 625
SQ FT±)

EXISTING
GRASS AREA

LANDSCAPING MATERIAL SCHEDULE						
TREES AND PALMS						
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	SPECIFICATIONS	COMMENTS
CHR	44	CHRYSOBALLANUS CICACO	RED TIP COCOPLUM	36" x 36"	36" O.C.	FULL TO BASE
QUE	6	QUERCUS VIRGINIANA	LIVE OAK	16" x 96"	120" O.C.	FULL TO BASE
CUP	8	CUPRESSUS LEYLANDII	LEYLAND CYPRESS	16" x 96"	120" O.C.	FULL TO BASE

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RIVER RANCH

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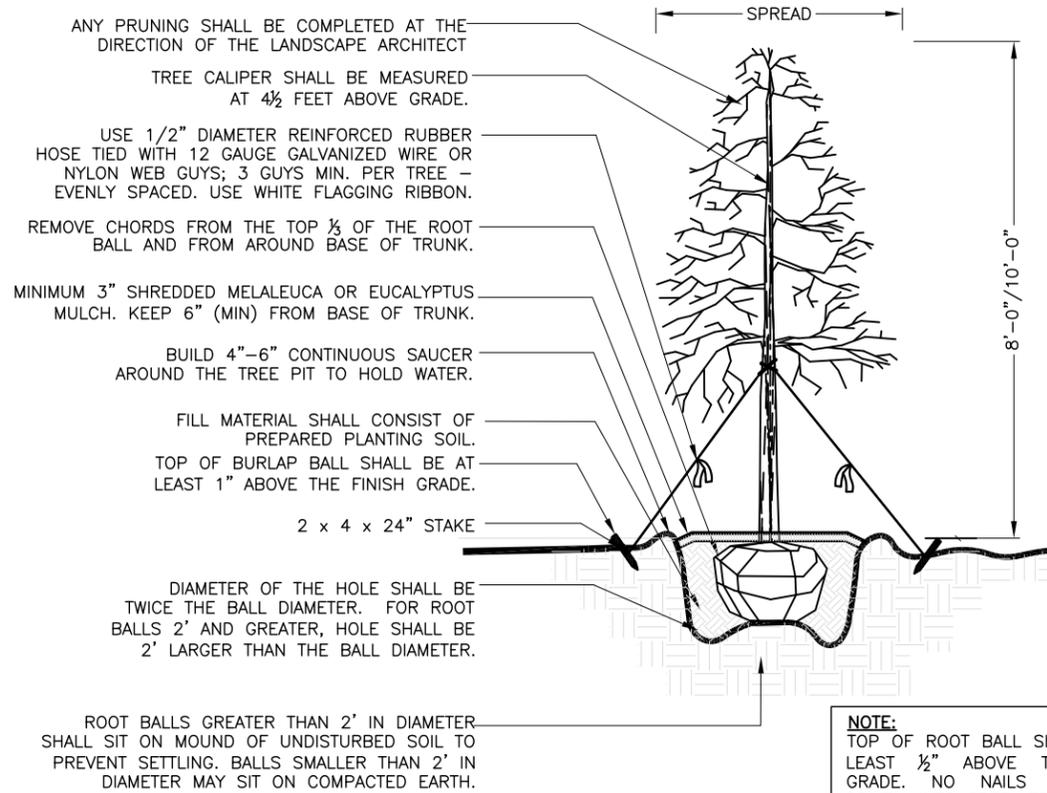
SHEET NAME

LANDSCAPING PLAN

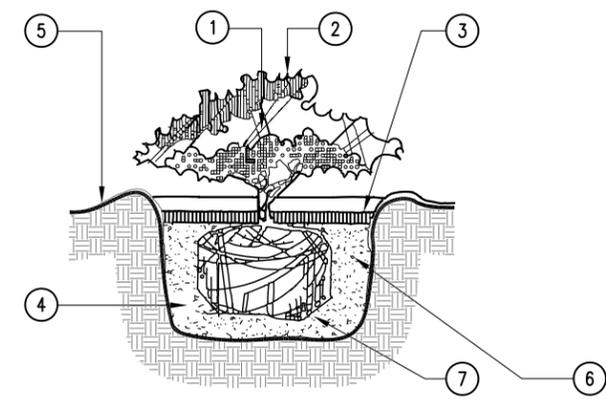
SHEET NUMBER

L1





NOTE:
TOP OF ROOT BALL SHALL BE AT LEAST 1/2" ABOVE THE FINISH GRADE. NO NAILS SHALL BE DRIVEN INTO TREE. TRUNK SHALL BE FREE OF ANY MAJOR SCARS.



- NOTES:**
1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1" - 2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF THE ROOTBALL.
 2. PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM MASS/HEIGHT.
 3. 3" MINIMUM SHREDDED CYPRESS MULCH TAPERED TO GRADE 2" FROM TRUNK.
 4. EXCAVATE ENTIRE BED SPECIFIED FOR GROUND COVER BED.
 5. FINISHED GRADE.
 6. PREPARED PLANTING SOIL AS SPECIFIED. NOTE: WHEN GROUNDCOVERS AND SHRUBS USED IN MASSES ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
 7. SCARIFY ROOTBALL SIDES AND BOTTOM.

TREE PLANTING DETAIL NTS 1

1. ALL PLANTS SHALL BE HEALTHY, VIGOROUS MATERIAL, FREE OF PEST AND DISEASES.
2. ALL TREES SHALL BE STRAIGHT TRUNKED, FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
3. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
4. ALL TREES SHALL BE GUYED OR STACKED AS SHOWN IN THE DETAILS. THE LANDSCAPE ARCHITECT SHALL APPROVE THE STACKING LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION.
5. ALL PLANTING AREAS SHALL INCLUDE A THREE INCH (3") LAYER OF SHREDDED "FLORA-MULCH" OR EQUIVALENT.
6. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK. PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE. IN THE EVENT OF QUANTITY DISCREPANCIES, THE DRAWINGS SHALL TAKE PRECEDENCE.
7. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) OF THE PLANTING AREAS AND LAWN UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE OWNER.
8. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS. ALL NEW PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF C.O.. ANY MATERIAL THAT DIES AND IS REPLACED DURING THAT TIME WILL ALSO BEGIN A ONE YEAR GUARANTEE FROM THE DATE OF REPLACEMENT.
9. ALL LANDSCAPING SHALL BE INSTALLED ACCORDING TO SOUND NURSERY PRACTICES, AND SHALL BE FLORIDA No. 1 OR BETTER AS SET FORTH IN "GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II," STATE OF FLORIDA DEPARTMENT OF AGRICULTURE.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF THE UTILITY LINES ADJACENT TO THE WORK AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD.
11. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCUR AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
12. ALL DISTURBED AREAS ARE TO BE RESODDED AS NECESSARY.
13. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN AUTHORIZATION FROM CALTROP OR OWNER.
14. ALL CANOPY TREES SHALL BE A MINIMUM OF FIVE FEET (5) (HORIZONTAL DISTANCE) FROM ALL UTILITIES AND UTILITY LINES.
15. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY STATE AND/OR FEDERAL PERMITS PERTAINING TO LANDSCAPING AND/OR CLEARING.

LANDSCAPING NOTES 3

SHRUB DETAIL NTS 2

ALTERNATIVE WATERING SOURCE FOR THE FIRST 6 MONTHS AFTER PLANTING

RECOMMENDED WATERING SCHEDULE

ALL PLANT MATERIAL WILL BE HAND WATERED VIA WATER TRUCK OR OTHER ACCEPTABLE MEANS (APPROVED BY THE OWNER). THE RECOMMENDED WATERING SCHEDULE IS TO BE UTILIZED AS A GUIDELINE, HOWEVER, THE CONTRACTOR IS EXPECTED TO WARRANT AND MAINTAIN ALL PLANTINGS FOR A PERIOD OF (180) DAYS FROM DATE OF INSTALLATION. WATERING PROGRAM SHALL ADJUST ACCORDINGLY BASED ON RAIN DAYS PROVIDING SUFFICIENT WATERING. ANY DEAD/ DAMAGED MATERIAL SHALL BE PROMPTLY REPLACED DURING THIS PERIOD.

DAY 0-15

WATER EVERY DAY TO PROVIDE COMPLETE ROOT BALL SATURATION FILL EARTHEN SAUCER TO RIM. REPAIR ANY BLOWOUTS.

DAY 16-30

WATER (3) DAYS PER WEEK TO PROVIDE COMPLETE ROOT BALL SATURATION FILL EARTHEN SAUCER TO RIM. REPAIR ANY BLOWOUTS.

DAY 31-90

WATER TWICE PER WEEK TO PROVIDE COMPLETE ROOT BALL SATURATION FILL EARTHEN SAUCER TO RIM. REPAIR ANY BLOWOUTS.

DAY 91-180

WATER ONCE A WEEK TO PROVIDE COMPLETE ROOT BALL SATURATION. REMOVE WEEDS AND REPAIR MULCH AS NEEDED.

NOTE THAT THIS IS A RECOMMENDED WATERING SCHEDULE ONLY. THIS DOES NOT RELINQUISH THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO MAINTAIN THE HEALTH OF THESE TREES DURING THE WARRANTY PERIOD. ANY DEAD OR DAMAGED PLANTS SHALL BE PROMPTLY REPLACED.

WATERING NOTES 4

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SHEET NAME
LANDSCAPING DETAILS AND NOTES

SHEET NUMBER
L2