

CONSTRUCT 4 NEW YURTS LAKE OF THE OZARKS STATE PARK, KAISER, MISSOURI

UTILITY NOTES

THE LOCATIONS, SIZES, AND MATERIAL TYPES OF UNDERGROUND UTILITIES INDICATED ON THE PLAT, NOT VISIBLE OR APPARENT FROM THE SURFACE, ARE SHOWN IN THEIR APPROXIMATE LOCATIONS FROM A MISSOURI ONE CALL SYSTEM LOCATE, OR UTILITY COMPANY RECORDS AND WERE NOT VERIFIED IN THE FIELD.
UNDERGROUND UTILITY SERVICES TO BUILDINGS WERE NOT LOCATED.

WATER

ELECTRIC

AMEREN MISSOURI
WILMORE LANE
LAKE OZARK, MISSOURI 65049
CONTACT: 800-552-7583

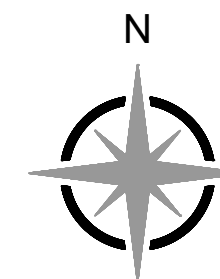
GAS

TELECOMMUNICATIONS

AT&T
ADDRESS
CITY
CONTACT:

SANITARY SEWER

STORM SEWER



SHEET INDEX

DESCRIPTION	SHEET NO.
COVER SHEET.....	G-001
SITE PLAN NOTES.....	G-002
DEMOLITION PLAN.....	C-101
SITE PLAN.....	C-102
GRADING AND EROSION CONTROL PLAN.....	C-103
CONCRETE LAYOUT DETAILS.....	C-501
CONCRETE LAYOUT DETAILS.....	C-502
SITE DETAILS.....	C-503
EROSION CONTROL DETAILS.....	C-504
YURT ELEVATION AND DETAILS.....	A-201
DECK DETAILS.....	S-501
ELECTRICAL SITE PLAN.....	E-101

SURVEY CONTROL POINTS

MODIFIED STATE PLANE COORDINATES
NAD 83, MISSOURI CENTRAL ZONE, NAVD 88, U.S. SURVEY FEET

BENCH MARK

BM - MISSOURI DEPARTMENT OF TRANSPORTATION VRS NETWORK.

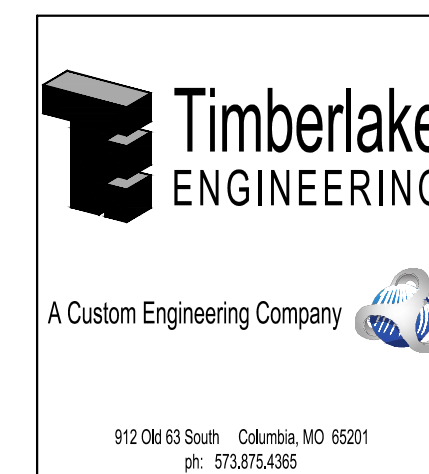
OWNER: STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR
DEPARTMENT OF
NATURAL RESOURCES
DIVISION OF STATE PARKS

PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DESIGNER: ENGINEERING SURVEYS & SERVICES
802 EL DORADO DR.
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PROJECT NUMBER: X2315-01

SITE NUMBER: 5306
ASSET NUMBER: 7815306134



SHEET NUMBER:

G-001

1 OF 12 SHEETS
JUNE 24, 2024



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DEPARTMENT OF
NATURAL RESOURCES,
DIVISION OF STATE PARKS

LAKE OF THE OZARKS
STATE PARK
CONSTRUCT 4 NEW YURTS

LAKE OF THE OZARKS
STATE PARK
MO ROUTE 134
KAISER, MISSOURI 65047
CAMDEN COUNTY

PROJECT # X2315-01
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DRAWN BY: BKW
CHECKED BY: JCB
DESIGNED BY: CWY

SHEET TITLE:
SITE PLAN NOTES

SHEET NUMBER:
G-002
2 OF 12 SHEETS
06/24/2024

GRADING AND STORM SEWER CONSTRUCTION NOTES

- ALL SITES USED FOR IMPORTING OR EXPORTING OF FILL MATERIAL SHALL HAVE AN ACTIVE MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND DISTURBANCE PERMIT, AS REQUIRED.
- CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS, TREES AND BRUSH, AND OTHER MATERIAL CREATED AS A RESULT OF CONSTRUCTION. MATERIAL SHALL BE DISPOSED OF IN COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. BURNING ON SITE WILL NOT BE ALLOWED.
- CONTRACTOR SHALL REMOVE ALL STUMPS BY EXCAVATING TO INCLUDE REMOVAL OF ASSOCIATED ROOT SYSTEM.
- ENGINEERED FILL SHOULD BE FREE OF FROZEN SOIL, ORGANICS, RUBBISH, LARGE ROCKS, WOOD, OR OTHER DELETERIOUS MATERIAL. COHESIVE FILLS SHOULD BE UNIFORMLY COMPACTED TO AT LEAST 95 PERCENT OF THE "STANDARD" MAXIMUM DRY DENSITY AND BE WITHIN ± 2 TO +4 PERCENT OF OPTIMUM MOISTURE CONTENT AS DESCRIBED BY ASTM D698. GRANULAR FILLS SHOULD BE UNIFORMLY COMPACTED TO AT LEAST 95 PERCENT OF THE "STANDARD" MAXIMUM DRY DENSITY. THE MOISTURE CONTENT SHOULD BE HIGH ENOUGH TO PROVIDE FOR PROPER COMPACTION BUT LOW ENOUGH TO PREVENT UNDESIRABLE PUMPING. PLACE FILL MATERIAL IN LOOSE LIFTS NOT TO EXCEED 8 INCHES IN THICKNESS.
- ROCKS AND STONES THAT EXCEED THE THICKNESS OF THE LOOSE LIFT FILL LAYER SHOULD BE REMOVED AND DISPOSED OF OFF THE IMMEDIATE CONSTRUCTION AREA.
- IMPORTED SOILS PROPOSED FOR USE AS FILL OR BACKFILL SHOULD BE REVIEWED AND ANALYZED BY THE GEOTECHNICAL ENGINEER PRIOR TO USE ON SITE. SOIL CLASSIFIED AS MH, OH, OL, OR PT (HIGH PLASTICITY SOILS AND ORGANIC SOILS) BY THE UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D2487) SHOULD NOT BE IMPORTED FOR USE AS ENGINEERED FILL. SUITABLE IMPORTED MATERIALS FOR GENERAL SITE FILL ARE THOSE THAT CLASSIFY AS GW, GM, GC, SC, AND CL IN ACCORDANCE WITH ASTM D 2487. MATERIALS CLASSIFIED AS CH SHOULD BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO THEIR IMPORTATION AND ONLY USED OUTSIDE THE BUILDING PAD AT DEPTHS BELOW THE UPPER 2 FEET OF SUBGRADE. SUBJECT TO FINAL DESIGN REQUIREMENTS FOR WALL BACKFILL, SUITABLE IMPORTED MATERIALS FOR WALL AND TRENCH BACKFILL ARE THOSE THAT CLASSIFY AS GW, GP, GM, GC, SM, SW, SP, SC, AND CL IN ACCORDANCE WITH ASTM D2487.
- FILLS PLACED IN AREAS WHERE THE NATURAL SLOPE IS GREATER THAN 5H:1V (HORIZONTAL TO VERTICAL) SHOULD BE BENCHED INTO THE EXISTING GRADE TO REDUCE THE POTENTIAL FOR SLIPPAE BETWEEN EXISTING SLOPES AND ENGINEERED FILL. BENCHES SHOULD BE LEVEL AND WIDE ENOUGH TO ACCOMMODATE COMPACTION AND EARTH MOVING EQUIPMENT.
- FILL AND SUBGRADE CONSTRUCTION SHOULD NOT BE STARTED ON FOUNDATION SOIL, PARTIALLY COMPLETED FILL, OR SUBGRADES THAT CONTAIN FROST OR ICE. FILL SHOULD NOT BE CONSTRUCTED USING FROZEN SOIL. FROZEN SOIL SHOULD BE REMOVED PRIOR TO PLACING FILL MATERIAL.
- AFTER STRIPPING AND GRUBBING OPERATIONS ARE COMPLETED AND PRIOR TO FILL PLACEMENT, AREAS TO BE FILLED SHALL BE PROOF ROLLED USING A LOADED TANDEM AXLE DUMP TRUCK TO IDENTIFY SOFT AND UNSUITABLE AREAS. SOFT MATERIAL MAY BE MOISTURE CONDITIONED AND REUSED AS ENGINEERED FILL, UNSUITABLE AND DELETERIOUS MATERIAL SHALL BE REMOVED FROM SITE.
- ALL NEW UTILITY TRENCHES SHOULD BE BACKFILLED IN ACCORDANCE WITH APPROPRIATE CONTROLLED ENGINEERED FILL SPECIFICATIONS.
- FIELD DENSITY TESTS SHOULD BE CONDUCTED IN ACCORDANCE WITH ASTM D6938 (NUCLEAR METHODS) OR ASTM D 1556 (SAND CONE METHOD). FIELD DENSITY TESTS SHOULD BE PERFORMED AT THE RATE OF ONE TEST PER 2,500 SQUARE FEET PER LIFT WITHIN THE BUILDING AND 10,000 SQUARE FEET PER LIFT BENEATH PAVEMENTS, SIDEWALKS, AND OTHER POTENTIAL STRUCTURAL AREAS WITH A MINIMUM OF 3 TESTS PER LIFT AND ONE TEST PER 150 LINEAL FEET PER LIFT FOR FOUNDATION, TRENCH AND WALL BACKFILL.
- BUILDING PAD AND PARKING AREAS SHALL BE PROOF-ROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK TO IDENTIFY ANY SOFT OR UNSUITABLE AREAS, PRIOR TO BASE ROCK PLACEMENT. THE PROOF-ROLL SHALL BE OBSERVED BY THE PROJECT GEOTECHNICAL ENGINEER. AREAS IDENTIFIED AS UNSUITABLE SHALL BE OVER EXCAVATED AND RECONSTRUCTED WITH ENGINEERED FILL.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS FOR ALL LANDSCAPED AND PAVED AREAS.

STORM WATER POLLUTION PREVENTION PLAN NOTES

- CONTRACTOR SHALL FOLLOW THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES. A COPY OF THIS PLAN, SWPPP, AND ALL PERMITS SHALL REMAIN ON SITE THROUGHOUT CONSTRUCTION.
- NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL EROSION CONTROL MEASURES HAVE BEEN INSTALLED AND APPROVAL HAS BEEN RECEIVED FROM AUTHORITIES.
- IMMEDIATELY UPON COMPLETION OF FINISH GRADING IN EACH AREA, ALL LANDSCAPING AREAS SHALL BE STABILIZED PER PLANS AND/OR SPECIFICATIONS.
- SHOULD CONSTRUCTION STOP FOR LONGER THAN 14 DAYS, THE SITE SHALL BE SEEDED AS SPECIFIED IN THE SWPPP.
- THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
- CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
- CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
- CONTRACTOR SHALL REMOVE ALL TRASH, DEBRIS, TREES & BRUSH AND OTHER MATERIAL CREATED AS A RESULT OF THE CONSTRUCTION WORK AND THE SITE SHALL BE RETURNED TO ITS ORIGINAL CONDITION.
- ALL PERIMETER LANDSCAPED AREAS SHALL BE GRASS COVERED.
- THE SITE CONTRACTOR SHALL INCLUDE MAINTENANCE OF ALL BMP'S AS PART OF THEIR CONTRACT AND SHALL BE RESPONSIBLE FOR THE PROJECT UNTIL THE SITE HAS OBTAINED FINAL STABILIZATION IN ACCORDANCE WITH THE NPDES PERMIT AND SWPPP.

UTILITY CONSTRUCTION NOTES

- SITE CONTRACTOR SHALL COORDINATE WITH MISSOURI DEPARTMENT OF NATURAL RESOURCES, DIVISION OF STATE PARKS STAFF WHEN LOCATING UTILITIES WITHIN THE PARK.
- LOCATION OF SITE UTILITIES SHALL BE VERIFIED BY CONTRACTOR WITH STATE PARKS STAFF AND THE PROPER UTILITY COMPANY PROVIDING SERVICE PRIOR TO THE START OF CONSTRUCTION.
- EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
- UTILITY TIE-INS ARE SHOWN IN APPROXIMATE LOCATIONS. REFER TO MEP PLANS FOR EXACT TIE-IN OF ALL UTILITIES.
- SITE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
- SITE CONTRACTOR WILL BE RESPONSIBLE FOR ALL TAP AND TIE ON FEES REQUIRED, AS WELL AS COST OF UNDERGROUND SERVICE CONNECTIONS TO THE BUILDING.
- ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS. BACKFILL OF TRENCHES THROUGH ANY IMPROVED AREAS, SUCH AS STREET, DRIVES OR PARKING LOTS SHALL BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR DENSITY (ASTM D-698).
- PROPOSED ELECTRIC LINES ARE SHOWN FOR COORDINATION PURPOSES ONLY. SYSTEM DESIGN PREPARED BY EACH RESPECTIVE AGENCY. REFER TO MEP PLANS FOR CONDUIT REQUIREMENTS.
- ALL UNDERGROUND UTILITY CONDUITS SHALL BE PLACED 48" BELOW FINISH GRADE UNLESS NOTED OTHERWISE.
- ALL UNDERGROUND LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
- TOPS OF EXISTING ELECTRIC, SANITARY, STORM, WATER, TELECOMMUNICATION, GAS, IRRIGATION, CHILLED WATER, AND STEAM STRUCTURES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED FINISHED ELEVATIONS.
- ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH OF 3000 P.S.I.
- ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODE AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE.
- PVC CONDUIT SHALL BE SCHEDULE 40 PVC WITH LONG SWEEPS ONLY (36" MINIMUM RADIUS) AND CONTAIN PULLTAPE, UNLESS OTHERWISE NOTED.
- A MINIMUM 18" OF VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN THE OUTSIDE OF THE ELECTRIC CONDUIT AND THE OUTSIDE OF THE WATER, STORM SEWER, SANITARY SEWER, OR GAS PIPE AT ALL CROSSINGS.
- STUBS FOR FUTURE UTILITIES SHOULD BE CLEARLY MARKED AND ES&S CONTACTED FOR DATA COLLECTION.

CONSTRUCTION NOTES

- ALL TREES AND BRUSH GENERATED FROM CLEARING AND GRUBBING OPERATIONS SHALL BE HAULED OFF SITE BY THE CONTRACTOR. OPEN BURRING WILL NOT BE ALLOWED WITHIN THE PROJECT LIMITS.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE DEPARTMENT OF NATURAL RESOURCES, DIVISION OF STATE PARKS AND VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST WORK WITH PARKS STAFF AS WELL AS CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL IDENTIFIED PROPERTY CORNERS, LAND SURVEY CORNERS, AND ACCESSORIES. THE CONTRACTOR SHALL CAUSE THE CORNERS AND ACCESSORIES TO BE REFERENCED BY A LICENSED LAND SURVEYOR, AND ANY SUCH CORNER OR ACCESSORIES DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE RESET BY THE SURVEYOR AT THE ORIGINAL LOCATION, AND FILE THE RESTORATIONS AND MONUMENT DOCUMENTS AS THE LAW REQUIRES.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEERING SURVEYS AND SERVICES FOR REVIEW AND APPROVAL FOR ALL MATERIALS BEFORE ORDERING.
- ALL DIMENSIONS ARE TO BACK OF CURB, FACE OF SIDEWALK, OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- IF A CONFLICT EXISTS BETWEEN THE CIVIL PLANS AND CIVIL SPECIFICATIONS, THE CIVIL PLANS SHALL GOVERN.
- ALL INCIDENTAL ITEMS INCLUDING BUT NOT LIMITED TO SIGNS, PAVEMENT, CURBS, FENCING, LANDSCAPING, IRRIGATION, ETC. EITHER DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE RETURNED TO ORIGINAL CONDITIONS BY THE CONTRACTOR.

ELECTRIC NOTES

SITE CONTRACTOR SHALL CONTACT AMEREN-MISSOURI TO COORDINATE INSTALLATION OF ELECTRIC SERVICES. RESPONSIBILITY OF INSTALLATION SHALL BE AS FOLLOWS:

	SUPPLIED BY:	INSTALLED BY:
SECONDARY CONDUIT	CONTRACTOR	CONTRACTOR
CONDUCTOR	CONTRACTOR	CONTRACTOR
METER CONNECTIONS	CONTRACTOR	UTILITY
TRANSFORMER	UTILITY	UTILITY
TRANSFORMER PAD	CONTRACTOR	CONTRACTOR
PRIMARY CONDUIT, CONNECTORS, ETC.	CONTRACTOR	CONTRACTOR
CONDUCTOR CONNECTIONS	UTILITY	UTILITY

SEQUENCE OF EVENTS

- PRIOR TO CONSTRUCTION, COORDINATE AND HAVE A PRE-CONSTRUCTION MEETING REGARDING SWPPP TRAINING WITH CONSTRUCTION PERSONNEL.
- DETERMINE ALL UTILITY FIELD LOCATES AS NECESSARY.
- INSTALL ALL PERIMETER EROSION AND SEDIMENT CONTROL PER PLAN. DISTURB ONLY THE AREAS NECESSARY FOR INSTALLATION.
- COMMENCE ALL CLEARING AND GRUBBING PER PLAN. CLEARING SHALL BE COMPLETED BETWEEN NOVEMBER 15 THROUGH MARCH 31 DUE TO BAT TREE CLEARING RESTRICTIONS. THE CONTRACTOR SHALL REMOVE ALL STUMPS BY EXCAVATING TO INCLUDE REMOVAL OF ASSOCIATED ROOT SYSTEM. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS.
- THE CONTRACTOR SHALL PERFORM A SITE SURVEY AFTER CLEARING AND GRUBBING IN ORDER TO CONFIRM TOPOGRAPHY ON THE PLANS IS ACCURATE PRIOR TO MASS GRADING.
- INSTALL SITE UTILITIES AS GRADING ALLOWS.
- FINALIZE YURT SITE SUBGRADE PREPARATION AND COMMENCE YURT CONSTRUCTION.
- FINALIZE PAVEMENT SUBGRADE PREPARATION. INSTALL BASE MATERIAL AS REQUIRED FOR PAVED AREAS.
- COMMENCE PAVEMENT AND AMENITY PAD CONSTRUCTION.
- COMPLETE FINISH GRADING, SEED/SOD, AND MULCH ALL DISTURBED AREAS.
- REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS ONCE ALL DISTURBED AREAS HAVE BEEN STABILIZED.

HAZARDOUS SUBSTANCE NOTE

- SUBSTANCES REGULATED BY FEDERAL LAW UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) OR THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA) WHICH ARE TRANSPORTED, STORED OR USED FOR MAINTENANCE, CLEANING OR REPAIRS SHALL BE MANAGED ACCORDING TO THE PROVISIONS OF RCRA AND CERCLA.
- ALL PAINTS, SOLVENTS, PETROLEUM PRODUCTS AND PETROLEUM WASTE PRODUCTS (EXCEPT FUELS) AND STORAGE CONTAINERS (SUCH AS DRUMS, CANS OR CARTONS) SHALL BE STORED SUCH THAT THESE MATERIALS ARE NOT EXPOSED TO STORM WATER. SUFFICIENT PRACTICES OF SPILL PREVENTION, CONTROL AND/OR MANAGEMENT SHALL BE PROVIDED TO PREVENT ANY SPILLS OF THESE POLLUTANTS FROM ENTERING A WATER OF THE STATE. ANY CONTAINMENT SYSTEM USED TO IMPLEMENT THIS REQUIREMENT SHALL BE CONSTRUCTED OF MATERIALS COMPATIBLE WITH THE SUBSTANCES CONTAINED AND SHALL ALSO PREVENT THE CONTAMINATION OF GROUNDWATER.
- THE APPLICANT SHALL NOTIFY BY TELEPHONE AND IN WRITING THE DEPARTMENT OF NATURAL RESOURCES, WATER POLLUTION CONTROL PROGRAM, POST OFFICE BOX 176, JEFFERSON CITY, MO 65102, 1-800-361-4827, OF ANY OIL SPILLS OR IF HAZARDOUS SUBSTANCES ARE FOUND DURING THE PROSECUTION OF WORK UNDER THIS PERMIT.



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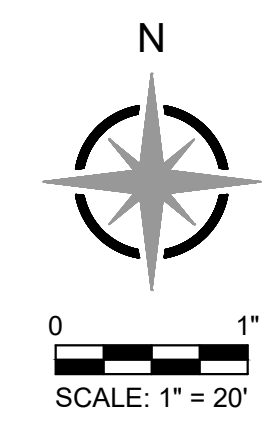
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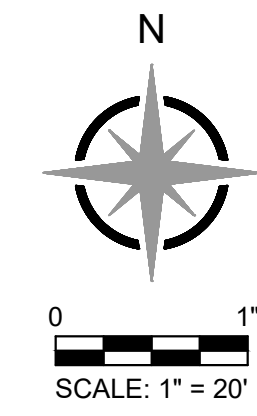
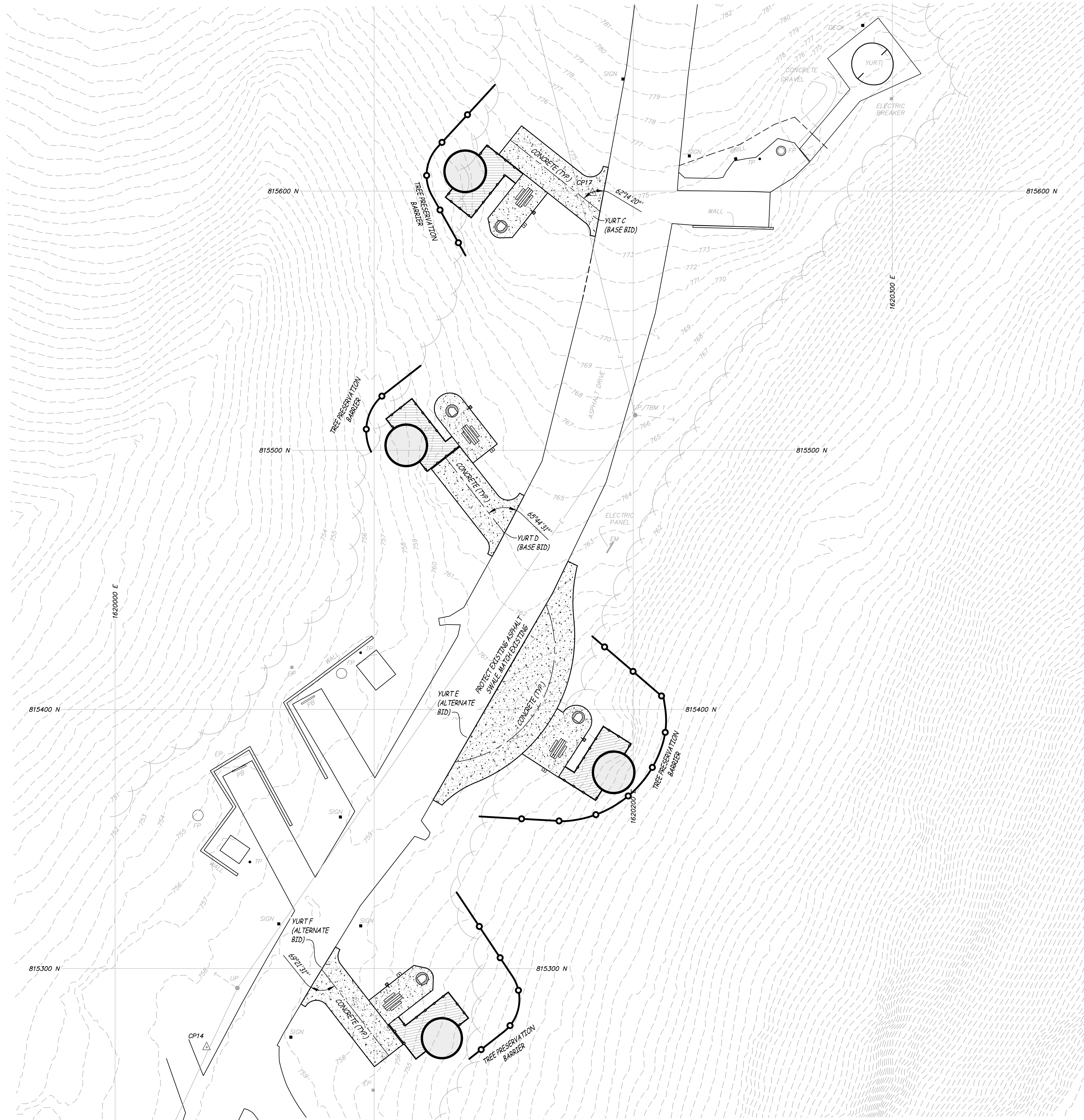
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DEMOLITION PLAN

SHEET NUMBER:
C-101
3 OF 12 SHEETS
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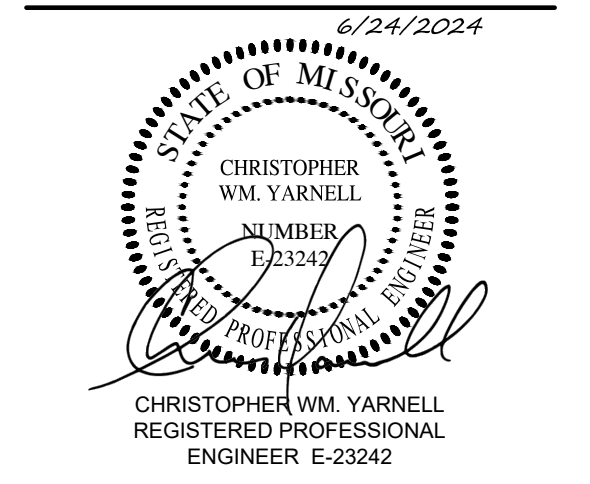
LEGEND

—	PROPERTY LINE
—E—	ELECTRIC LINE
—T—	TELECOMMUNICATIONS LINE
—UE—	UNDERGROUND ELECTRIC LINE
—S—	SANITARY SEWER LINE
—SS—	STORM SEWER LINE
—W—	WATER LINE
—X—	FENCE
—	TREE & BRUSH LINE
—	DRAINAGE SWALE
—	EXISTING CONTOUR
—	ANCHOR
—	IRON
—	R/W MARKER
△ CP#	CONTROL POINT
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
EP	ELECTRIC PEDESTAL
FES	FLARED END SECTION
FL	FLOW LINE
FP	FIRE PIT (SIZES VARY)
UP	UTILITY POLE
TP	TRASH POST
WH	WATER HYDRANT
WM	WATER METER
WV	WATER VALVE
—	ROCK DITCH CHECK
—	SEDIMENT TRAP
—	WADDLE
—	TREE PRESERVATION BARRIER
—	FINISH CONTOUR
—	FINISH GRADE ELEVATION
—UE—	PROPOSED UNDERGROUND ELECTRIC
—	PROPOSED RAILING
—	ASPHALT PAVEMENT
—	HEAVY DUTY CONCRETE



LEGEND

---	PROPERTY LINE
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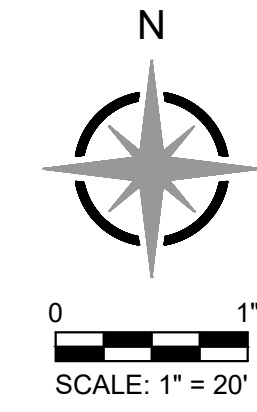
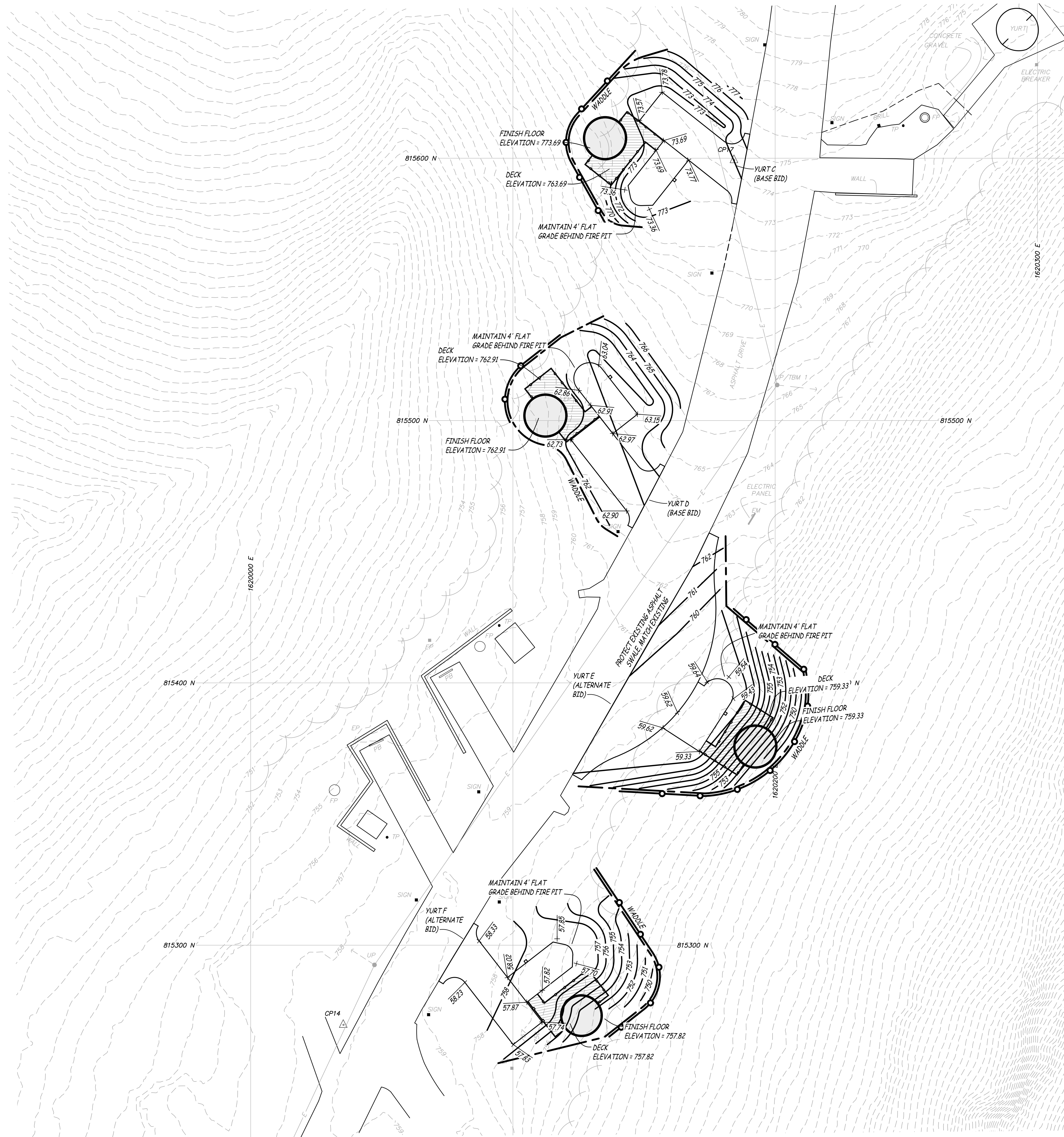
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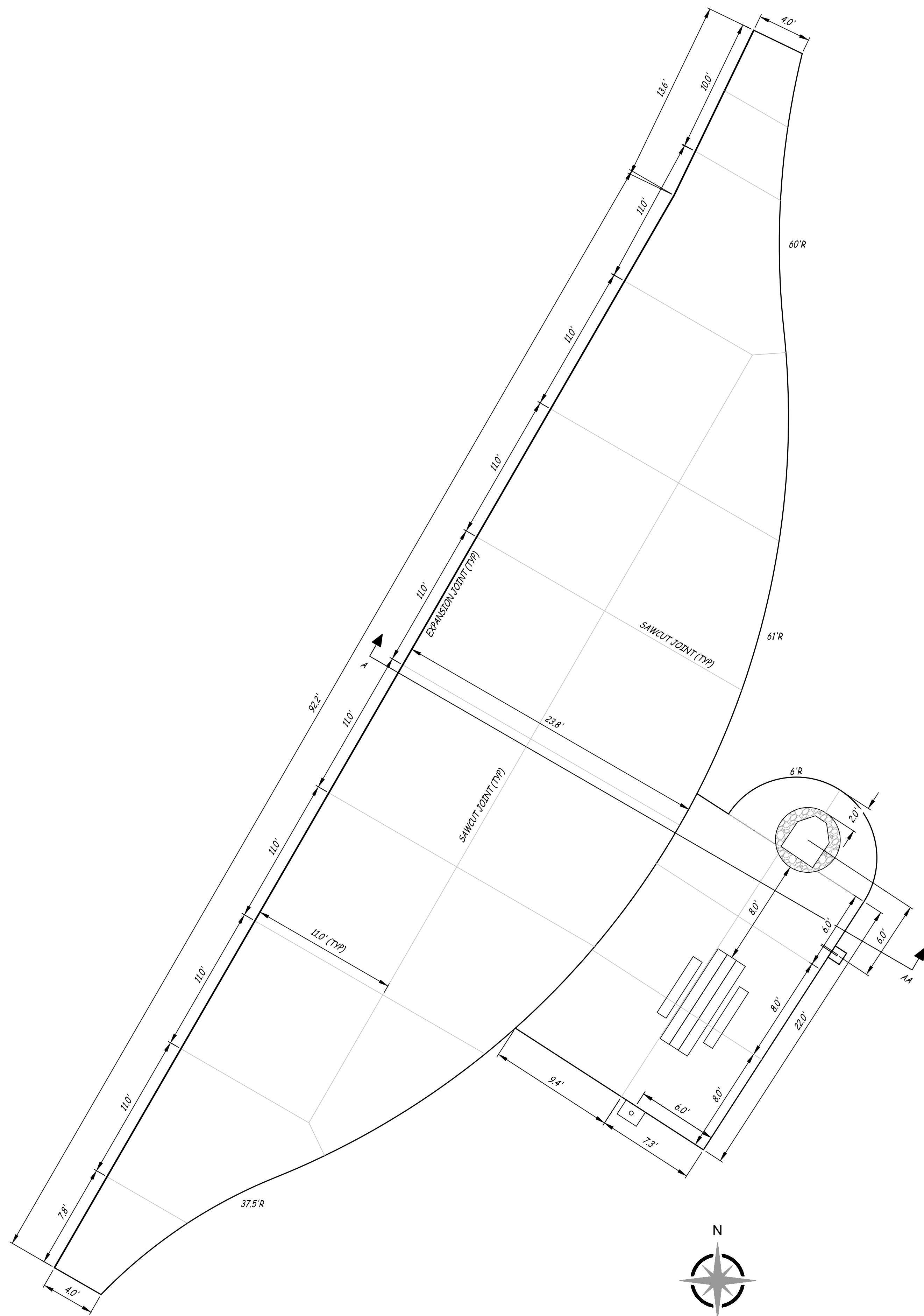
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SITE PLAN

SHEET NUMBER:
C-102
4 OF 12 SHEETS
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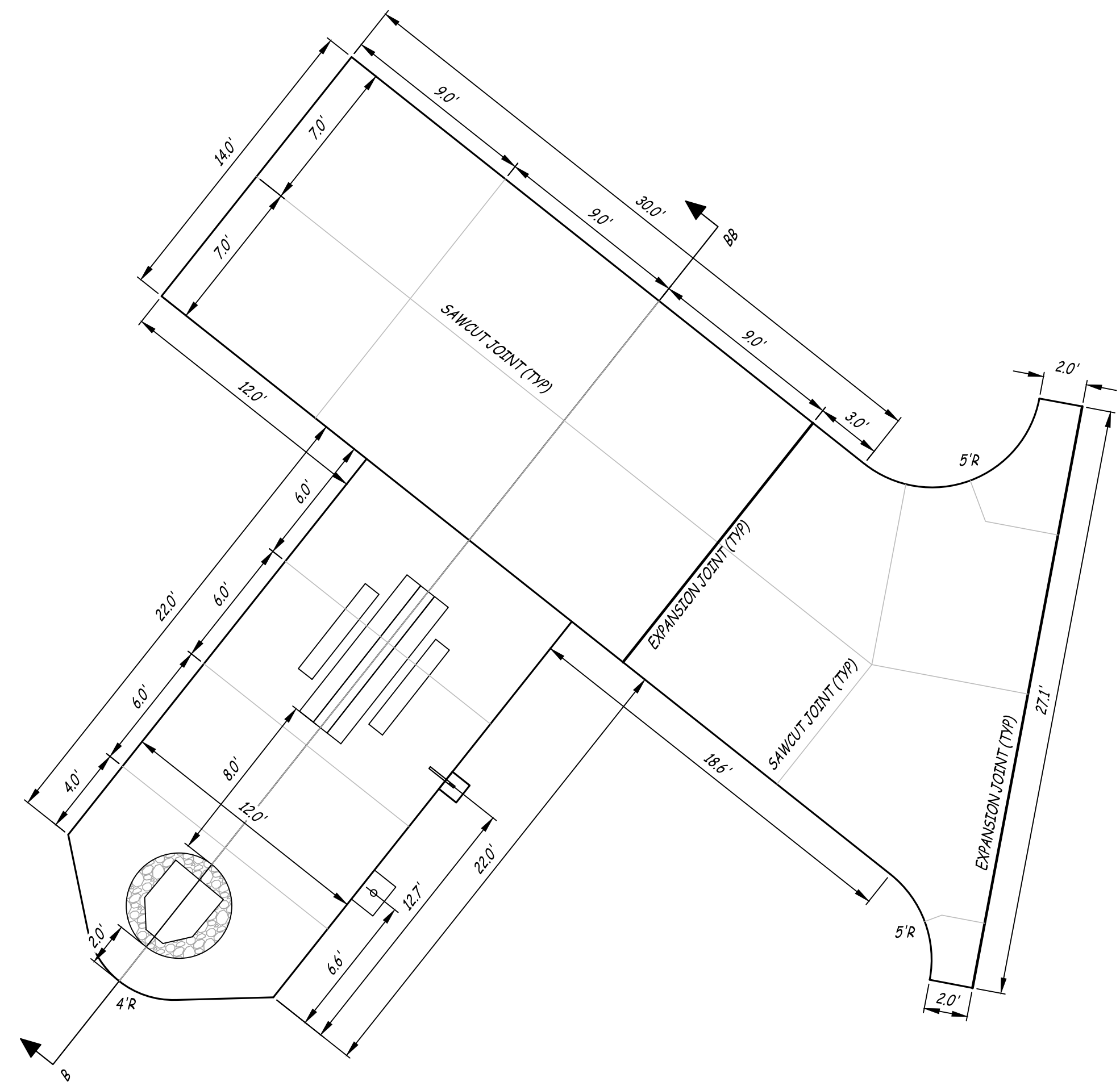


- NOTES:
1. BMPs MAY BE ADJUSTED TO FIT FIELD CONDITIONS. ADJUSTMENTS SHALL BE DOCUMENTED IN THE SWPPP.
2. USE WILDLIFE FRIENDLY EROSION CONTROL PRODUCTS. PLEASE USE THE FOLLOWING RESOURCE FOR REFERENCE:
[HTTPS://WWW.FWS.GOV/INITIATIVE/PROTECTING-WILDLIFE/MAKE-CHANGE-WILDLIFE-FRIENDLY-EROSION-CONTROL-PRODUCTS.](https://www.fws.gov/initiative/protecting-wildlife/make-change-wildlife-friendly-erosion-control-products)

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	PROPOSED UNDERGROUND ELECTRIC
	PROPOSED RAILING
	ASPHALT PAVEMENT
	HEAVY DUTY CONCRETE



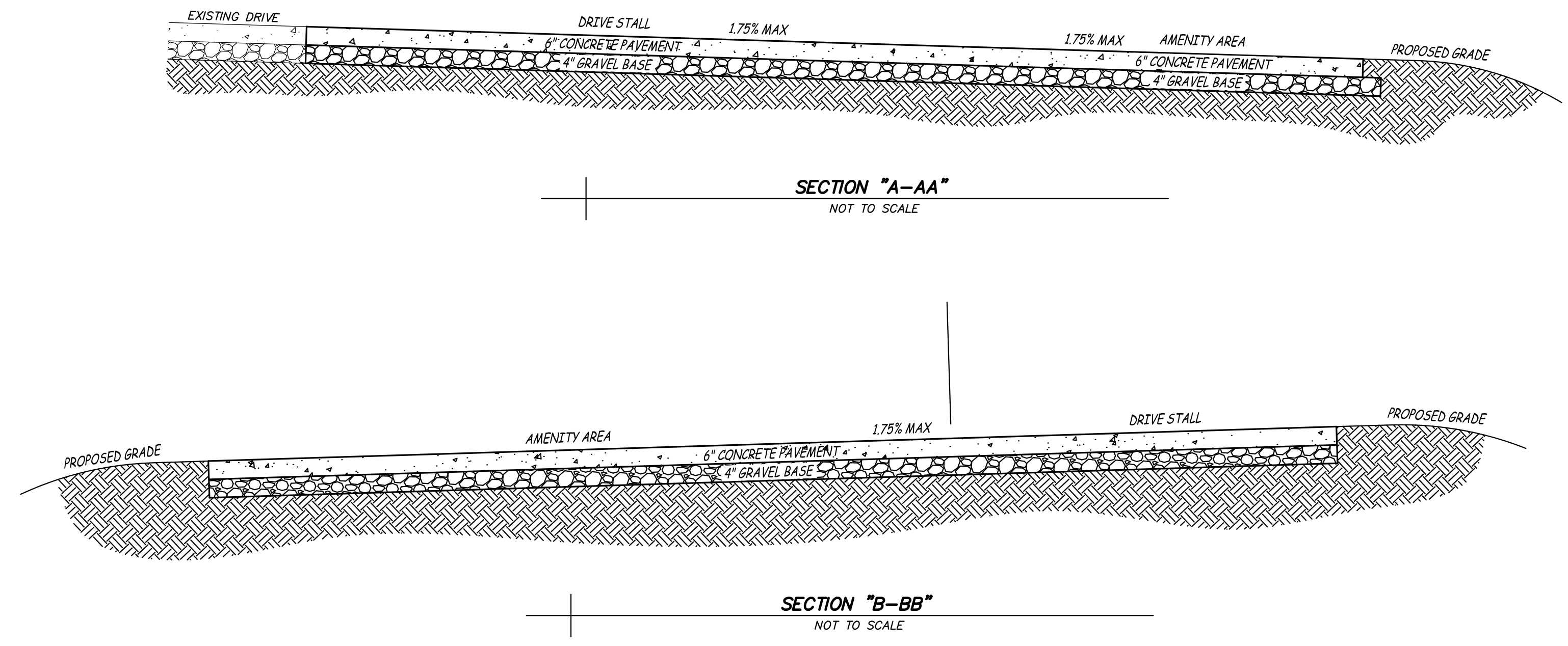
YURT "E" DETAIL
1" = 5'



YURT "C" DETAIL
1" = 5'

- LEGEND**
- GALVANIZED ADA LANTERN HANGER - MVE MODEL GM-125 RE: DETAIL 051-502
 - STANDARD FIRE RING - MVE MODEL T-156 RE: DETAIL 031-502
 - STANDARD PICNIC TABLE - MVE MODEL G-101
 - STANDARD MULTI-LEVEL GRILL - MVE MODEL T-150 MCC 61310

1. ALL AMENITIES WILL BE PROVIDED BY DIVISION OF STATE PARKS AND INSTALLED BY THE CONTRACTOR.
2. ANCHOR PICNIC TABLES BOTH ENDS WITH 2" STAINLESS STEEL U-BOLT IN CONCRETE OR CONNECT TABLE WITH CHAIN OR CABLE TO BOLT EYE IN CONCRETE.



SECTION "A-AA"
NOT TO SCALE

SECTION "B-BB"
NOT TO SCALE



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DEPARTMENT OF
NATURAL RESOURCES,
DIVISION OF STATE PARKS

LAKE OF THE OZARKS
STATE PARK
CONSTRUCT 4 NEW YURTS

LAKE OF THE OZARKS
STATE PARK
MO ROUTE 134
KAISER, MISSOURI 65047
CAMDEN COUNTY

PROJECT # X2315-01
SITE # 5306
ASSET # 7815306134

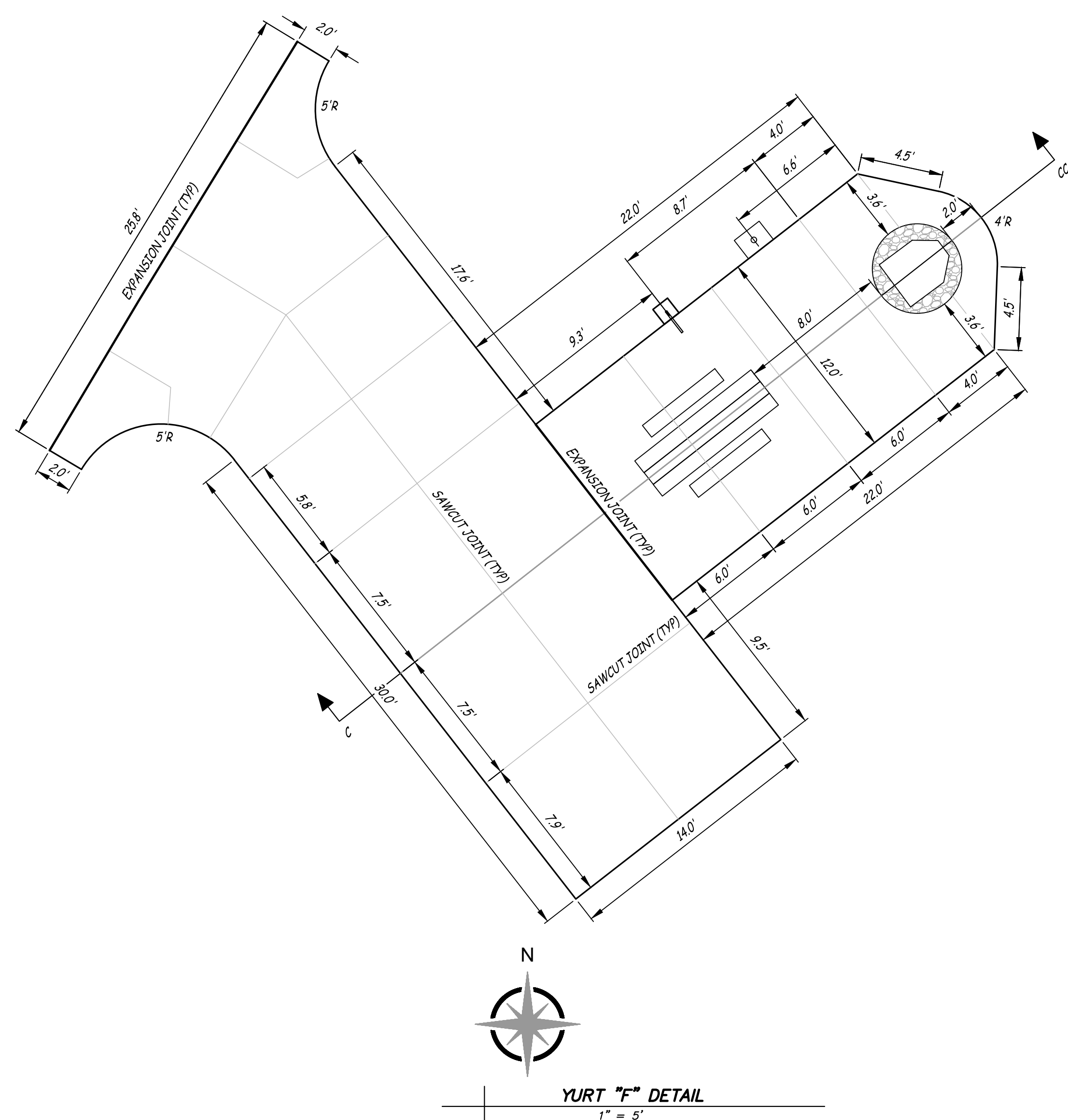
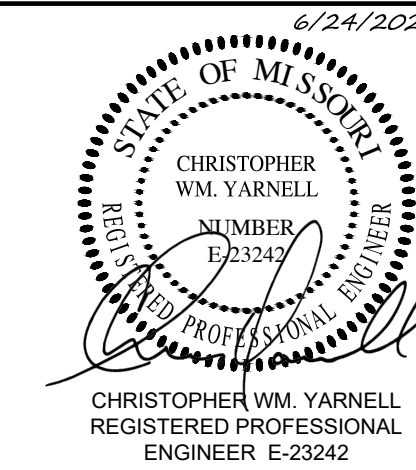
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DATE:	_____
REVISION:	_____
DATE:	_____
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DATE:	_____

ISSUE DATE: 06/24/2024

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DRAWN BY: BKW
CHECKED BY: JCB
DESIGNED BY: CWY

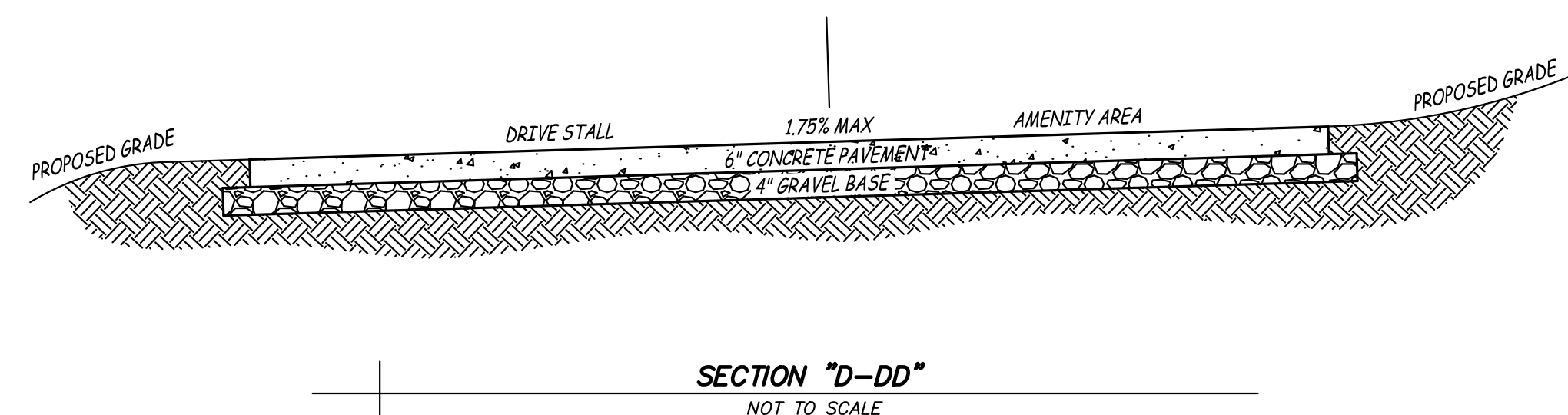
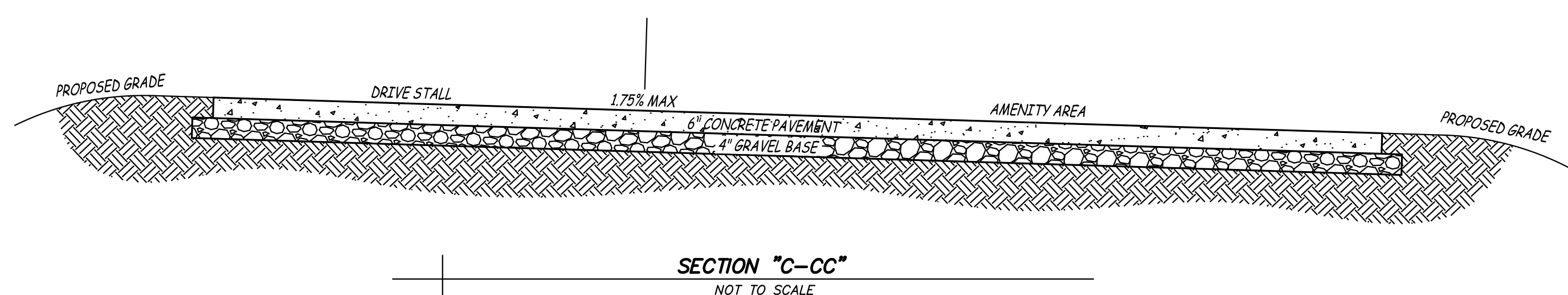
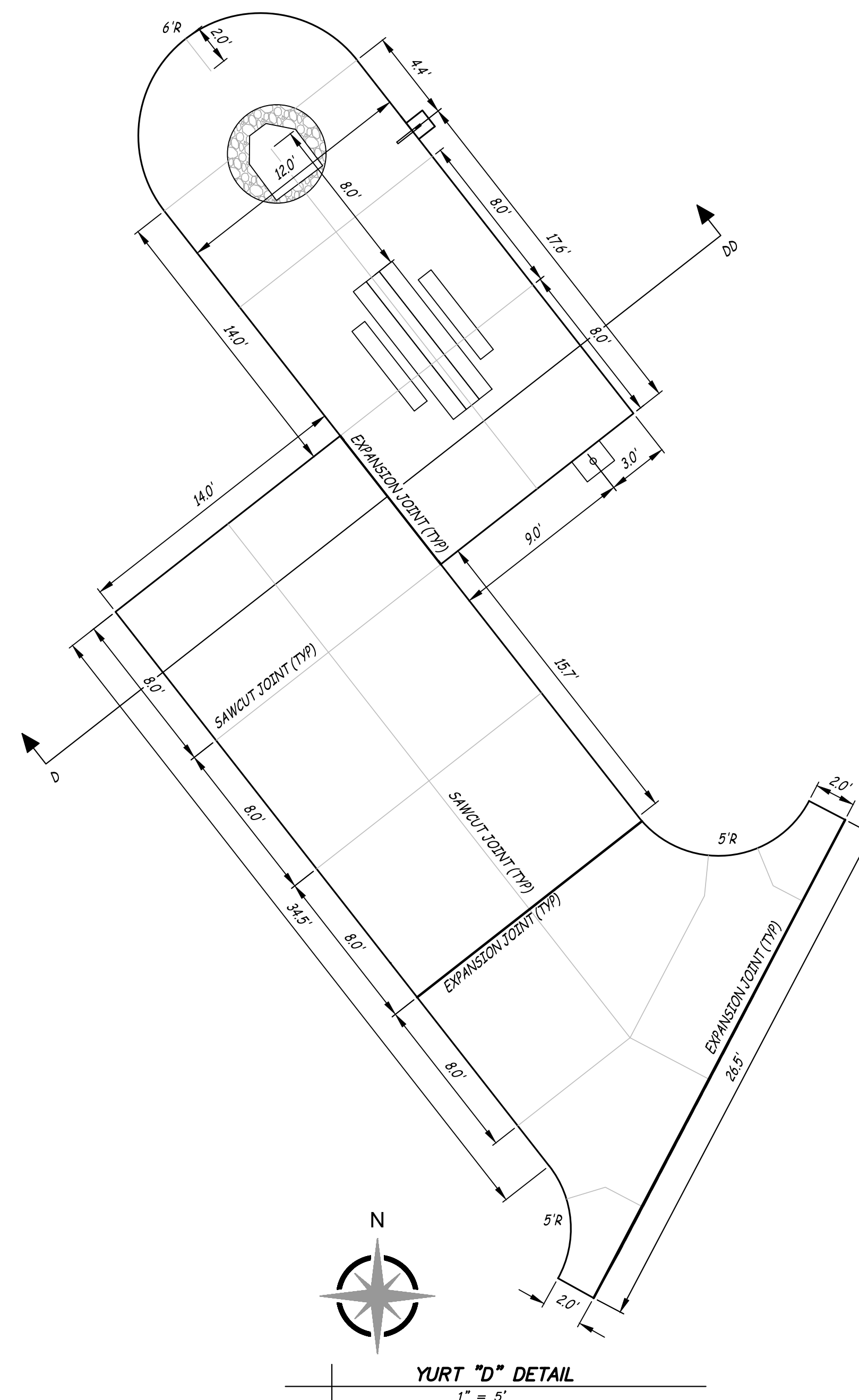
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**CONCRETE LAYOUT
DETAILS**

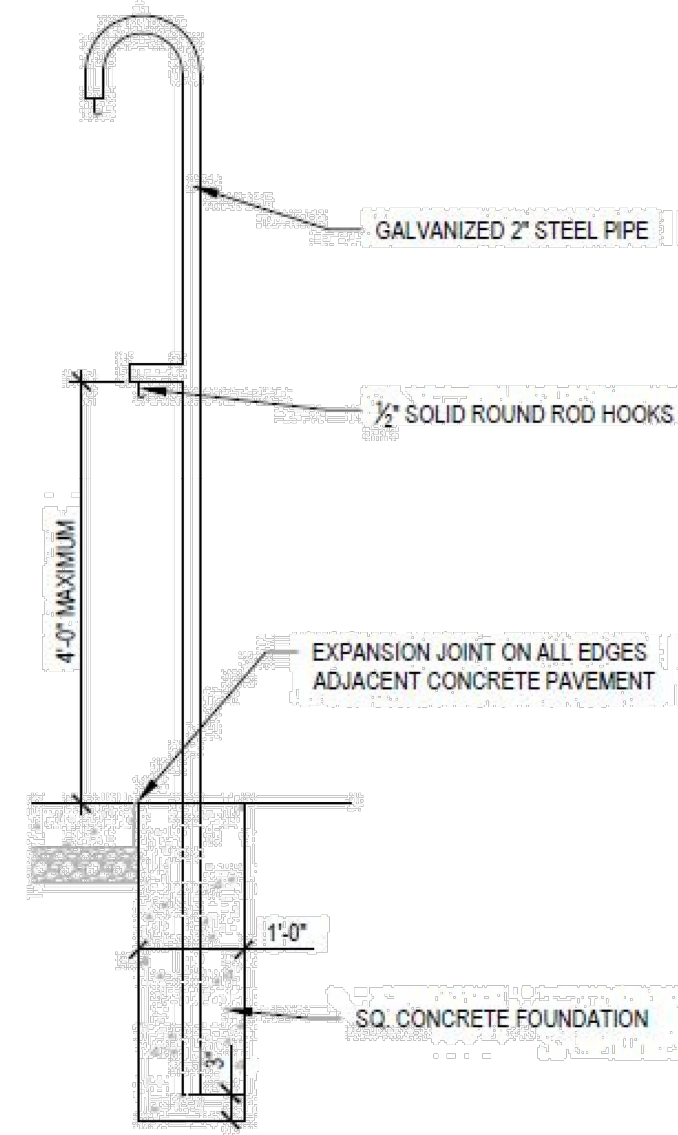
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C-501
6 OF 12 SHEETS
06/24/2024



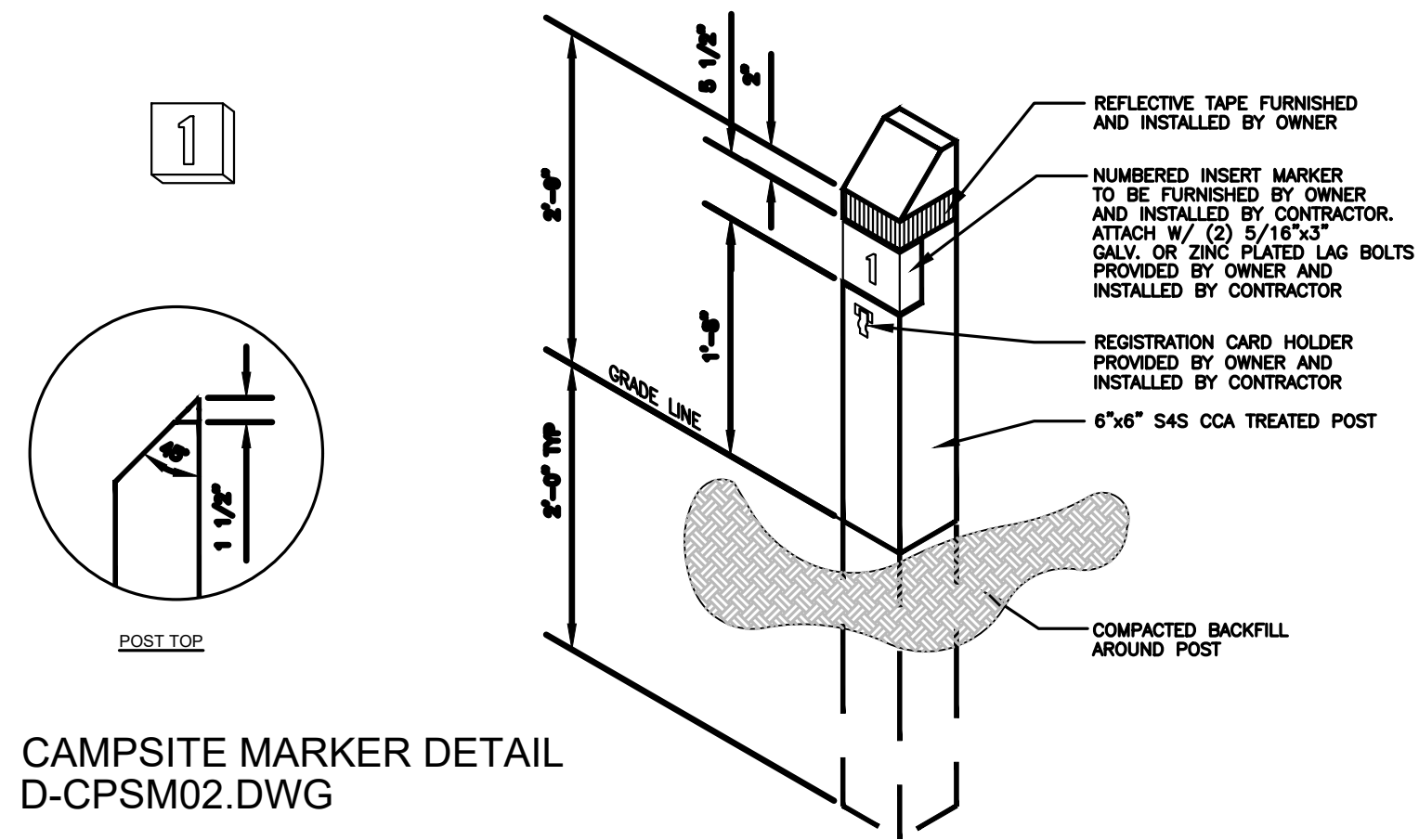
- LEGEND
- GALVANIZED ADA LANTERN HANGER - MVE MODEL GM-125 RE: DETAIL 031-502
 - STANDARD FIRE RING - MVE MODEL T-156 RE: DETAIL 031-502
 - STANDARD PICNIC TABLE - MVE MODEL G-101
 - STANDARD MULTILEVEL GRILL - MVE MODEL T-150 MCC 61310

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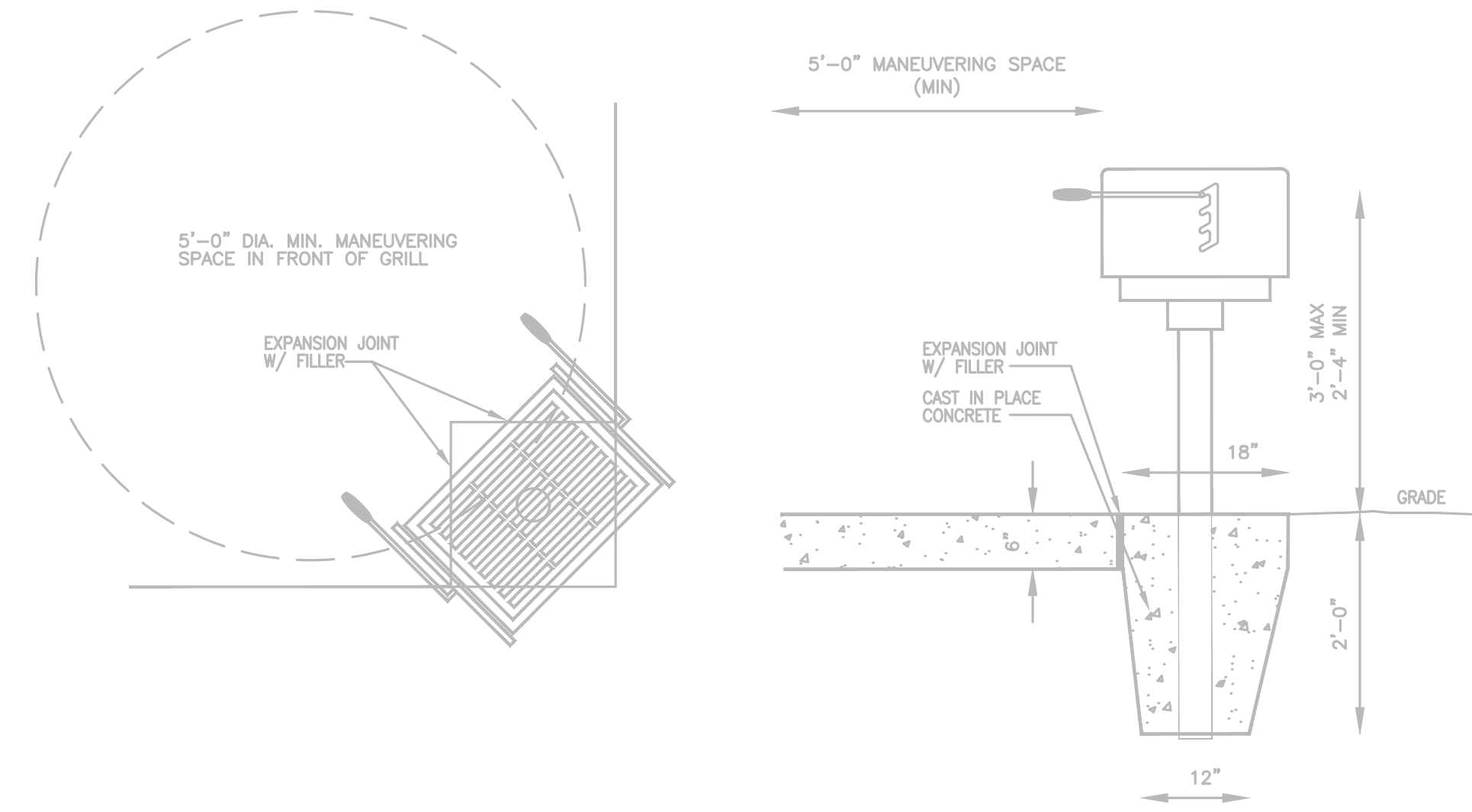


LANTERN POST

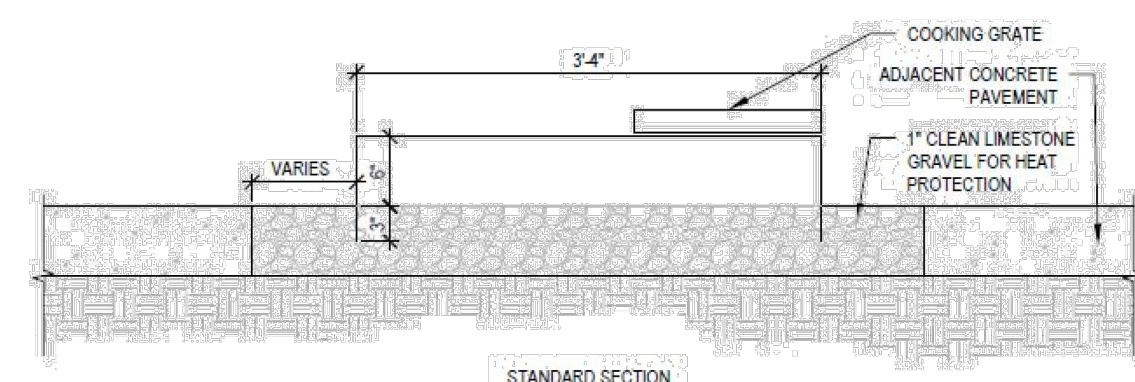
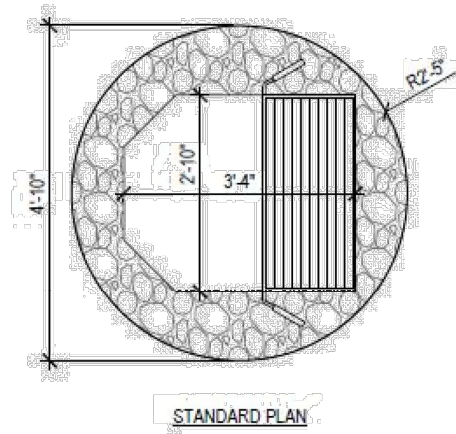


CAMPSITE MARKER DETAIL
D-CPSM02.DWG

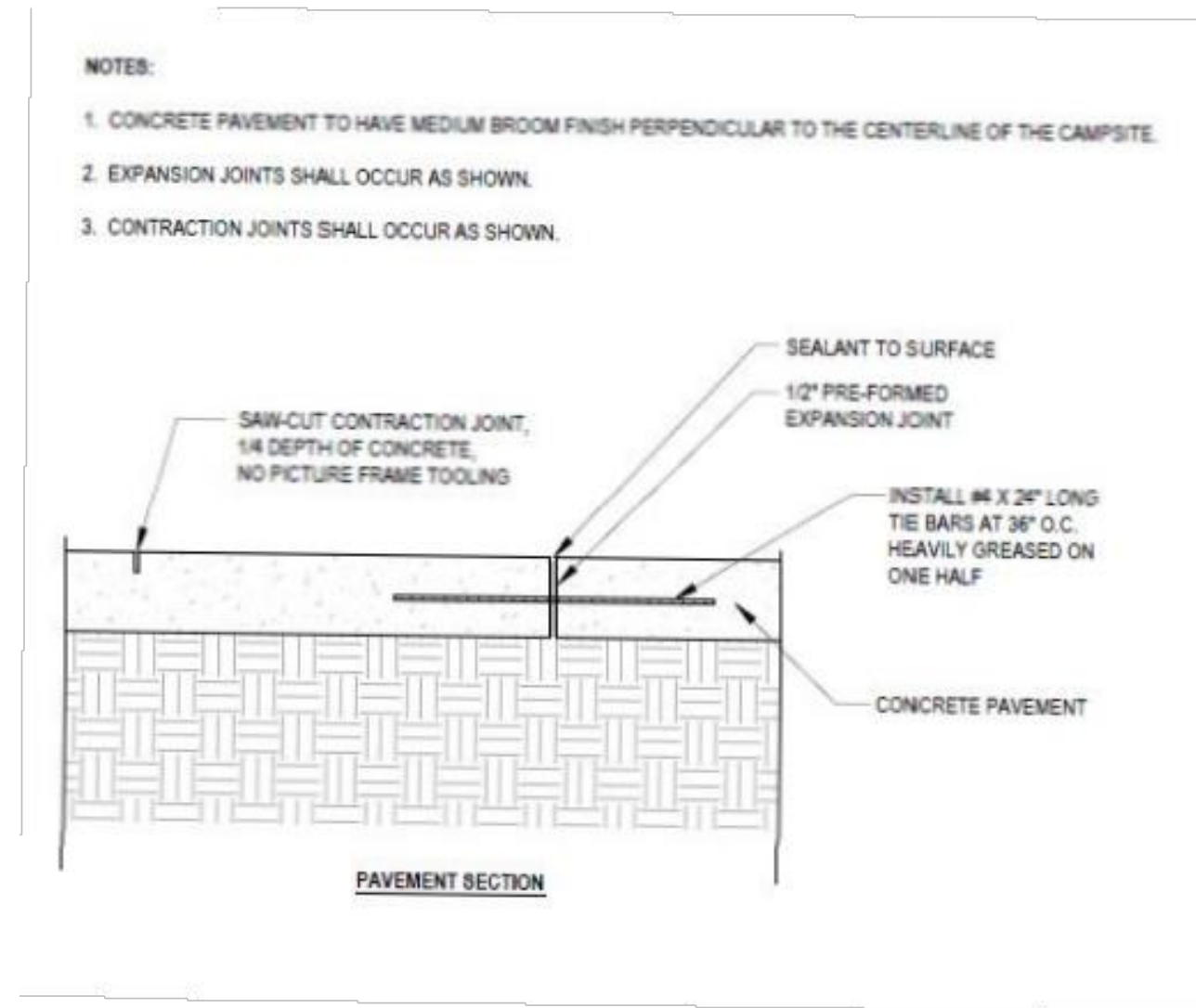
STANDARD CAMPSITE MARKER
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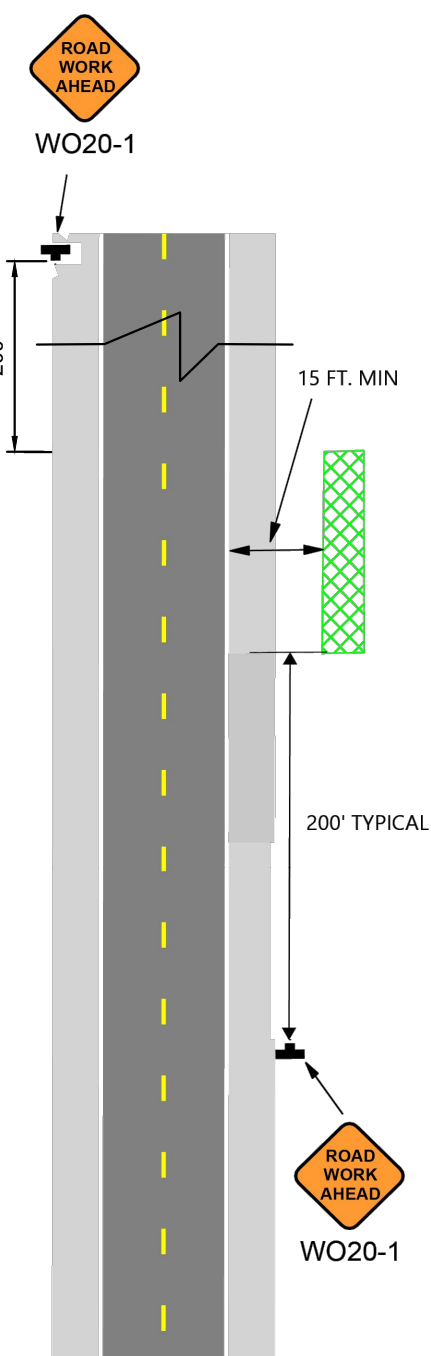
GRILL PEDESTAL INSTALLATION
NOT TO SCALE



CAMPSITE FIRE RING DETAIL
NOT TO SCALE

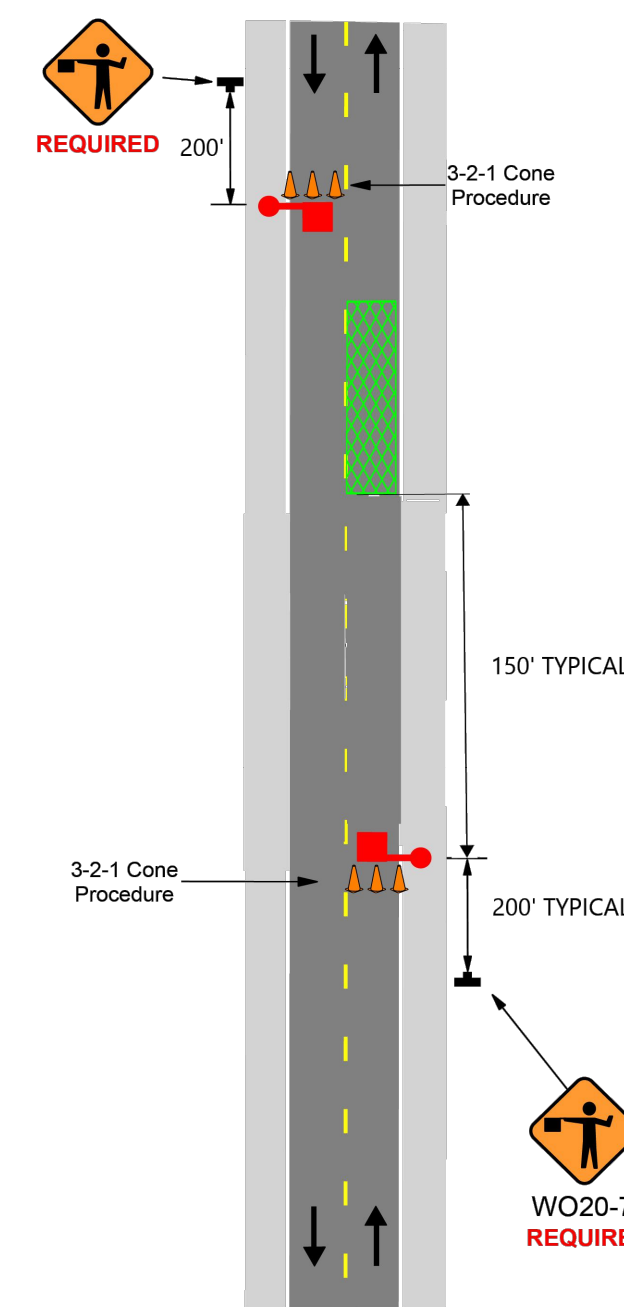


CONCRETE JOINT
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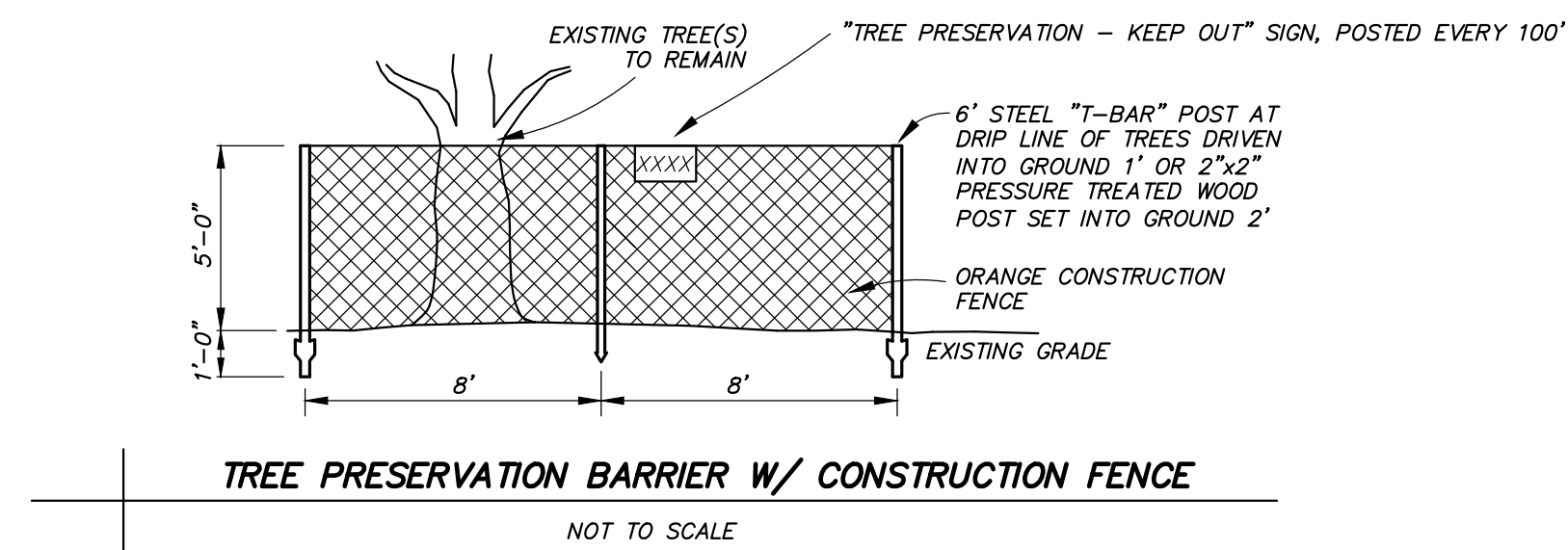
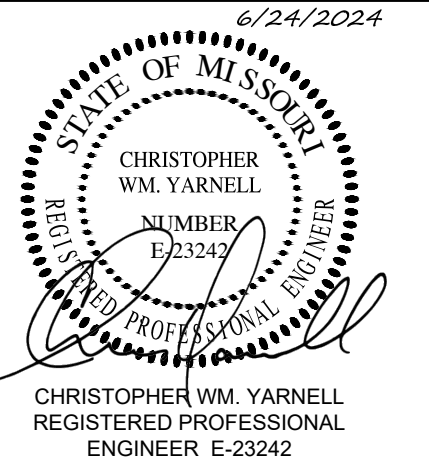
WORK OFF THE SHOULDER
NOT TO SCALE

- TRAFFIC CONTROL NOTES:
- ALL SIGNS SHALL BE IN ACCORDANCE WITH THE CURRENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 - SIGN MOUNTING HEIGHTS SHALL BE 1' PORTABLE IF USED ONLY DURING WORK HOURS. SIGNS LEFT IN PLACE OVERNIGHT SHALL BE POST MOUNTED 5' ABOVE THE PAVEMENT SURFACE.
 - FLAGGING OPERATIONS SHALL BE USED ANY TIME A LANE IS BLOCKED DUE TO CONSTRUCTION OPERATIONS.

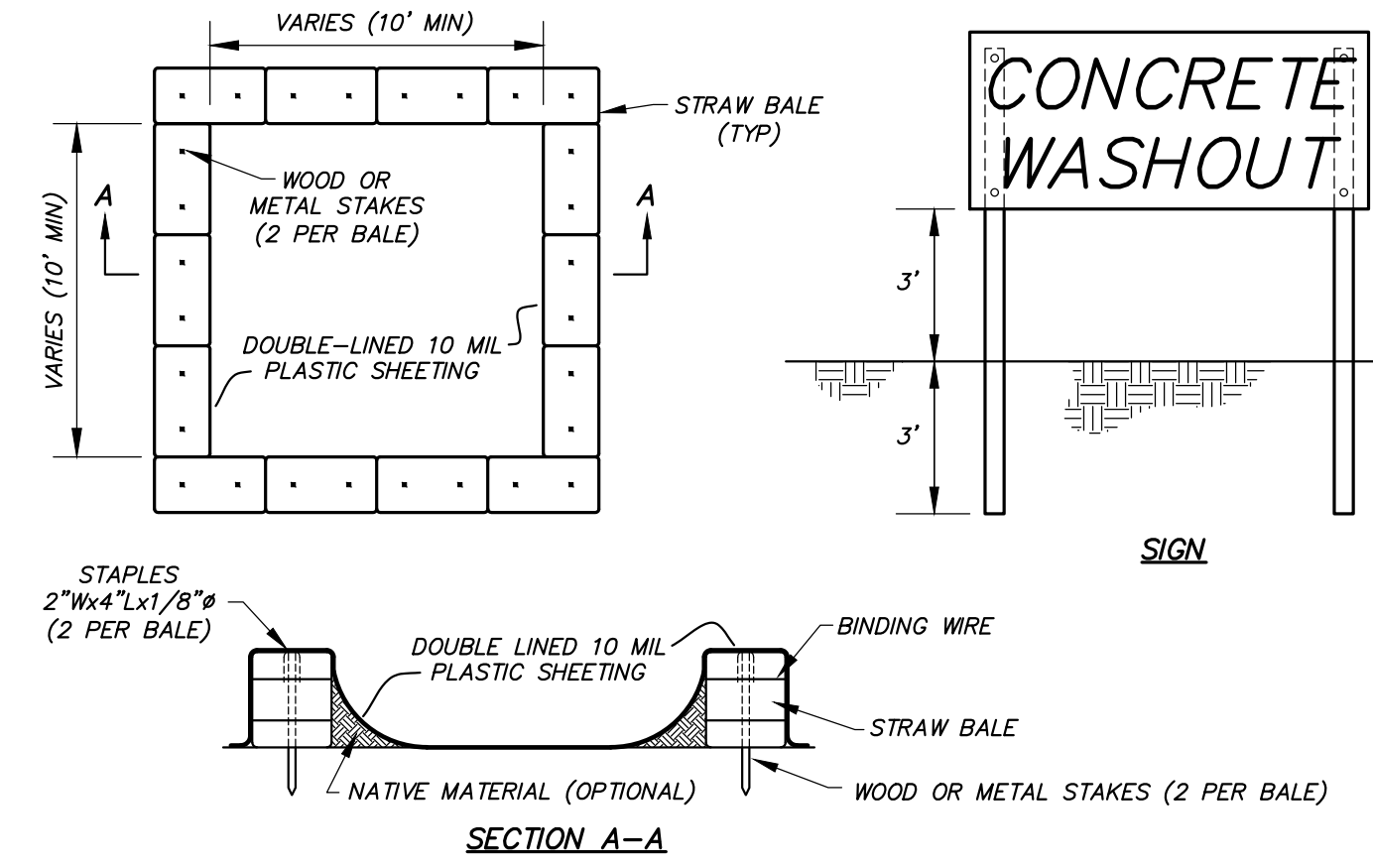


LANE CLOSURE
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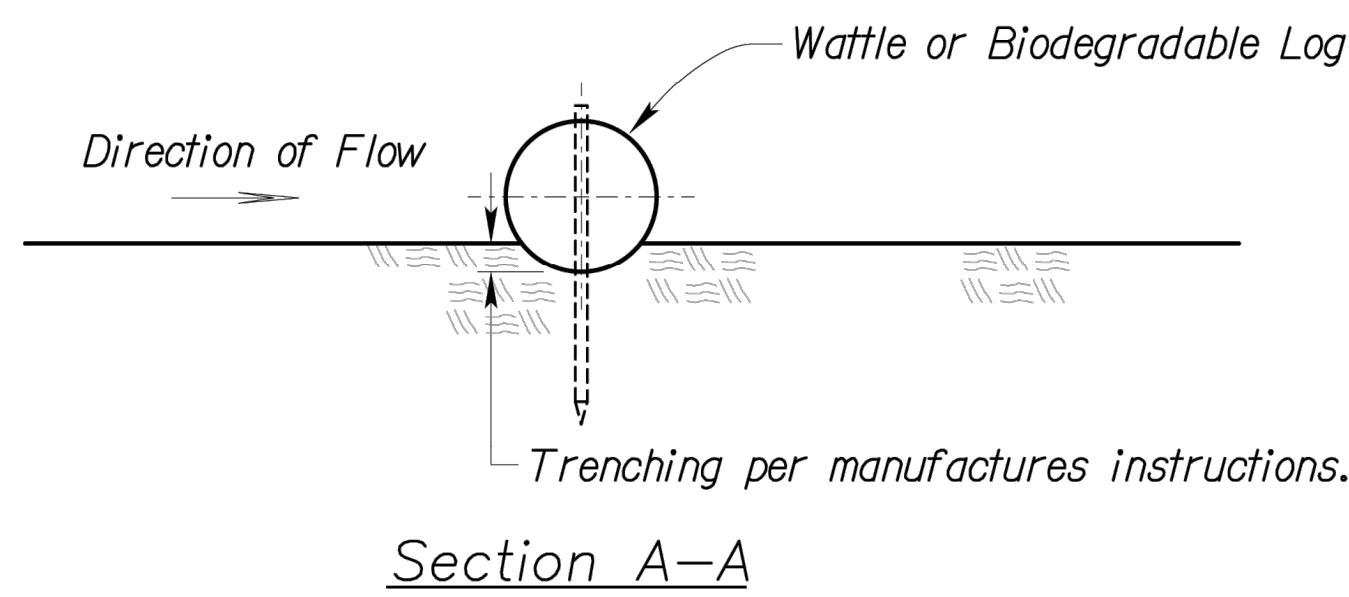


TREE PRESERVATION BARRIER W/ CONSTRUCTION FENCE
NOT TO SCALE

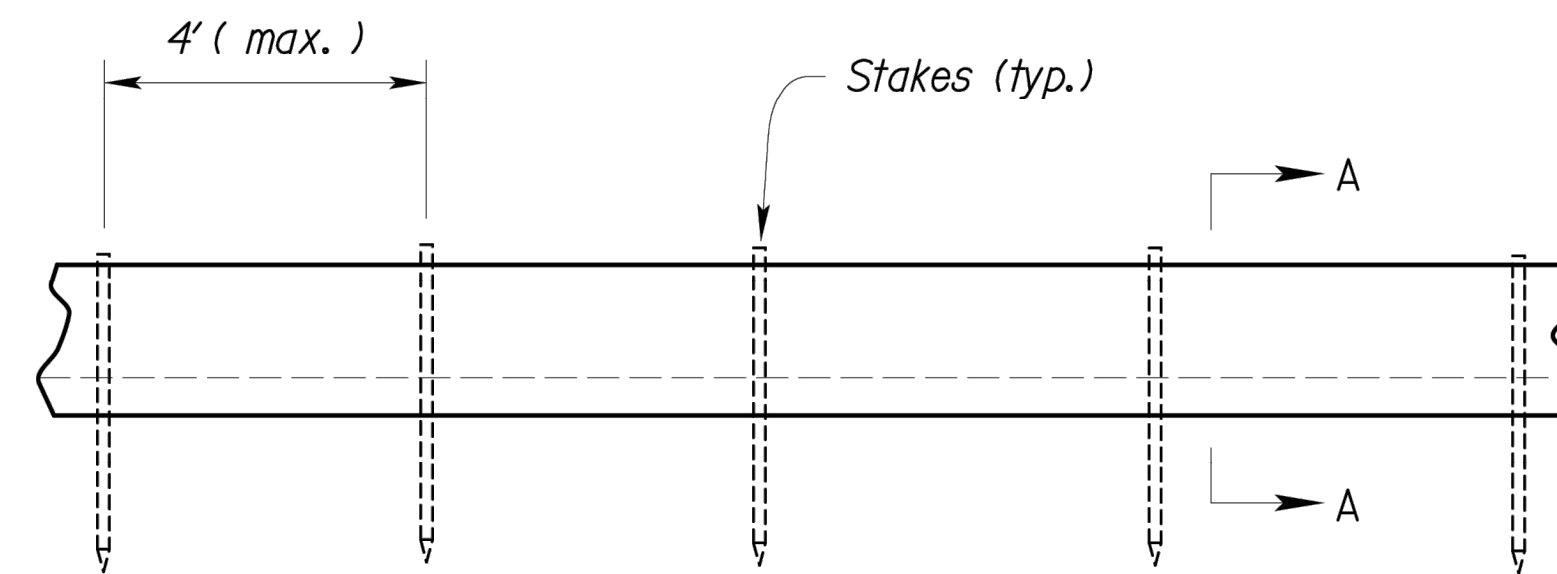


- NOTES:
1. ALL CONCRETE WASTE MATERIAL, INCLUDING WASHOUT WATER, SHALL BE TOTALLY CONTAINED.
 2. SEE SWPPP FOR MORE DETAILS.
 3. UPON PROJECT COMPLETION CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONCRETE WASTE FROM THE OWNER'S PROPERTY PER ALL APPLICABLE SOLID WASTE REGULATIONS.
 4. CONSTRUCT SIGN OF WEATHER PROOF MATERIALS OF A SIZE EASILY READABLE BY CONCRETE TRUCK DRIVERS. PLACE SIGN WITHIN 10' OF WASHOUT.
 5. CONTRACTOR SHALL CONTAIN WASHOUT WATERS AT ALL TIMES.

CONCRETE WASHOUT AREA
NOT TO SCALE



Section A-A



Typical Elevation

Notes for Wattles and Biodegradable Log Slope Protection:

1. The Slope barriers shall be placed along contour lines, with a short section turned upgrade at each end of the barrier. The maximum length of the slope barrier shall not exceed 250 feet, and the barrier ends need to be staggered.
2. Install wattles and biodegradable logs per manufacturer's instructions.
3. Spacing of stakes per manufacturer's instructions with 4' max. spacing. Length of stakes shall be a minimum of 2 times the diameter of the log with minimum of 24".

WATTLES AND BIODEGRADABLE LOG

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KAISER, MISSOURI 65047
CAMDEN COUNTY

PROJECT # X2315-01
SITE # 5306
ASSET # 7815306134

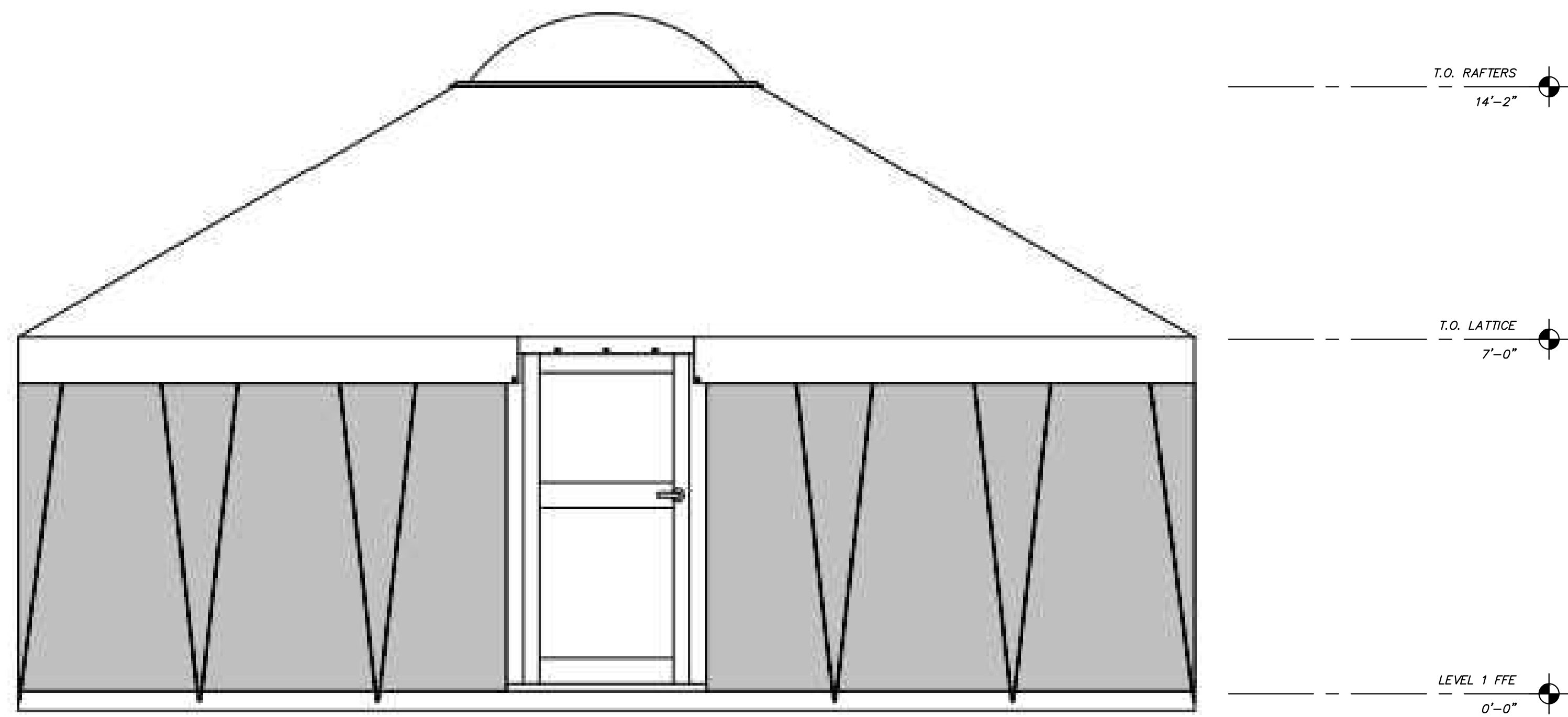
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DATE: _____
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REVISION: _____
DATE: _____
ISSUE DATE: 06/24/2024

CAD DWG FILE: XXX
DRAWN BY: BKW
CHECKED BY: JCB
DESIGNED BY: CWY

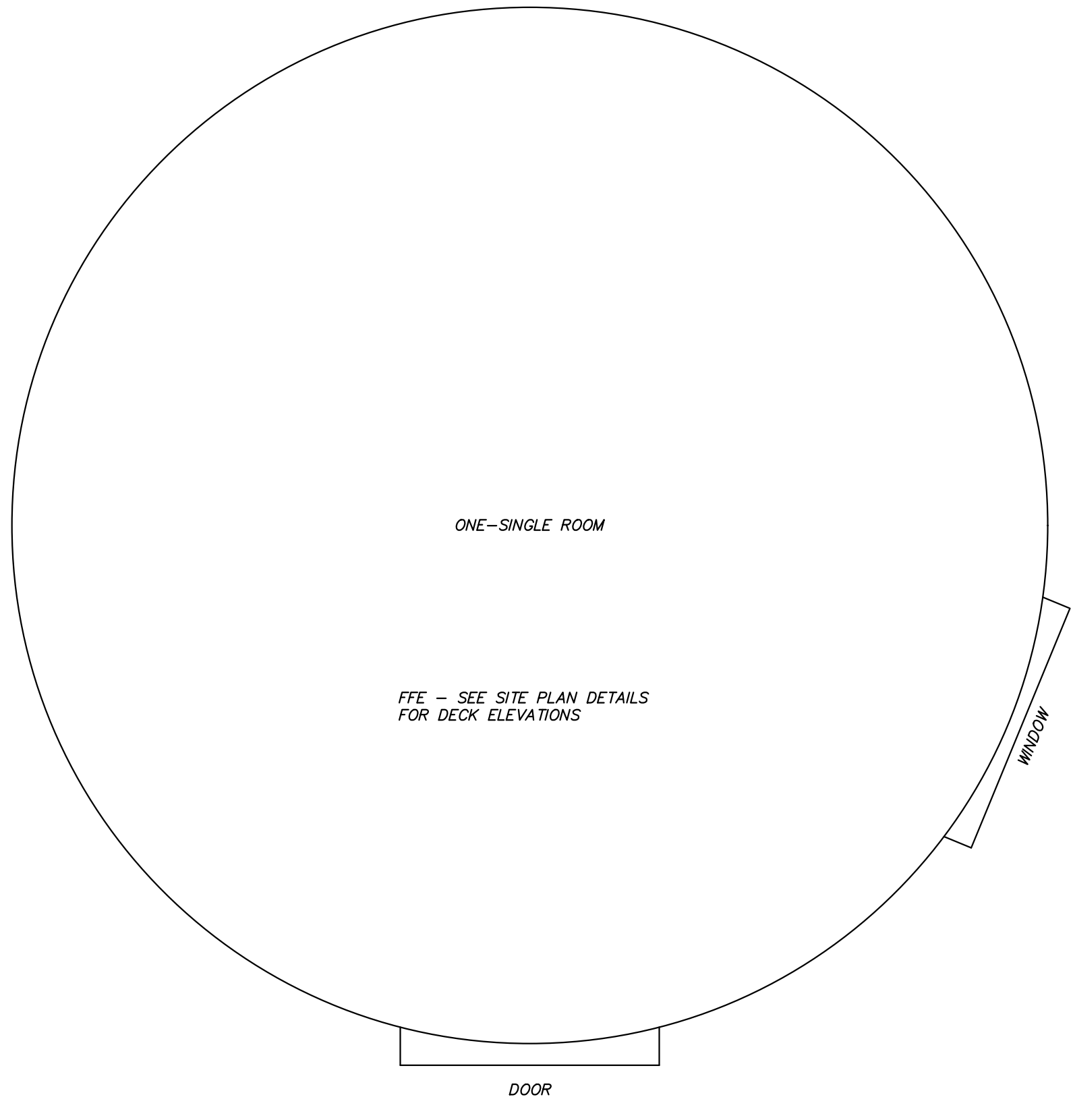
SHEET TITLE:
**EROSION CONTROL
DETAILS**

SHEET NUMBER:

C-504



ELEVATION VIEW
NOT TO SCALE



- NOTES:
1. YURT FLOOR PLAN, WALL DETAILS, AND RAFTER PLANS SHALL BE AS RECOMMENDED BY THE MANUFACTURER OF THE YURT TYPE PROVIDED.
 2. CONTRACTOR SHALL CONTACT THE CAMDEN COUNTY FIRE MARSHALL AND CAMDEN COUNTY HEALTH DEPARTMENT TO COORDINATE THE NECESSARY INSPECTIONS FOR THE LODGE PERMITS.
 3. YURT CANVAS COLOR SHALL BE APPROVED BY MISSOURI STATE PARKS.
 4. YURT INTERIOR FURNISHINGS (BED, TABLE, MICROWAVE, REFRIGERATOR, AND FUTON BUNK BED) WILL BE SUPPLIED BY MISSOURI STATE PARKS AND SHALL BE INSTALLED BY THE CONTRACTOR.



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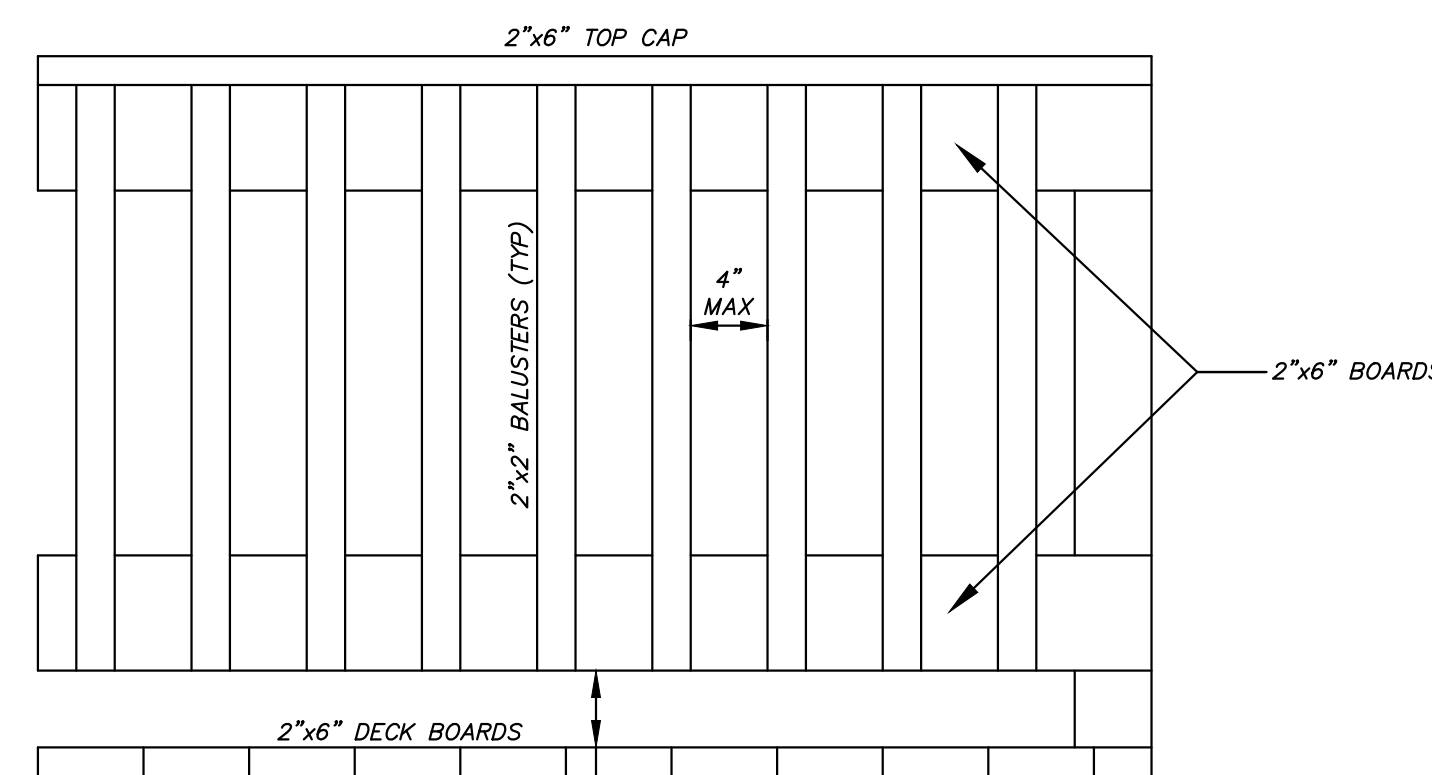
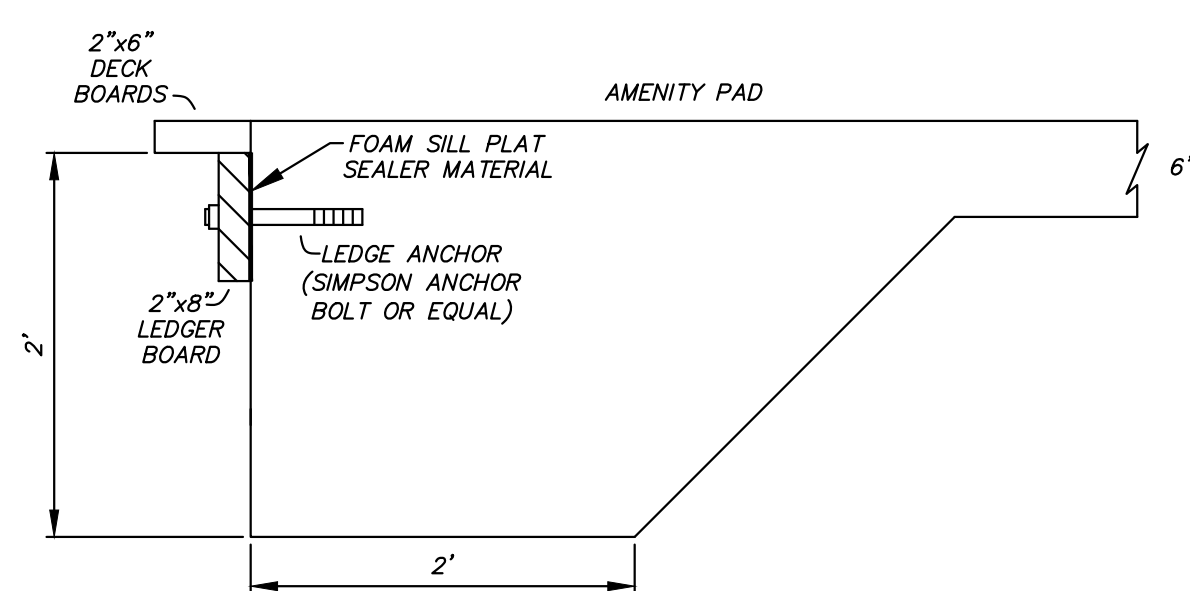
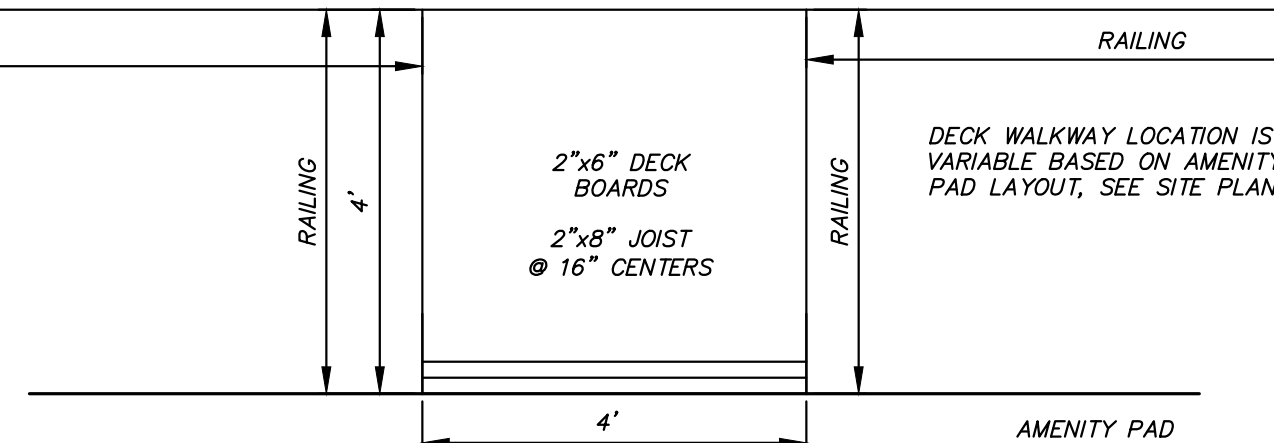
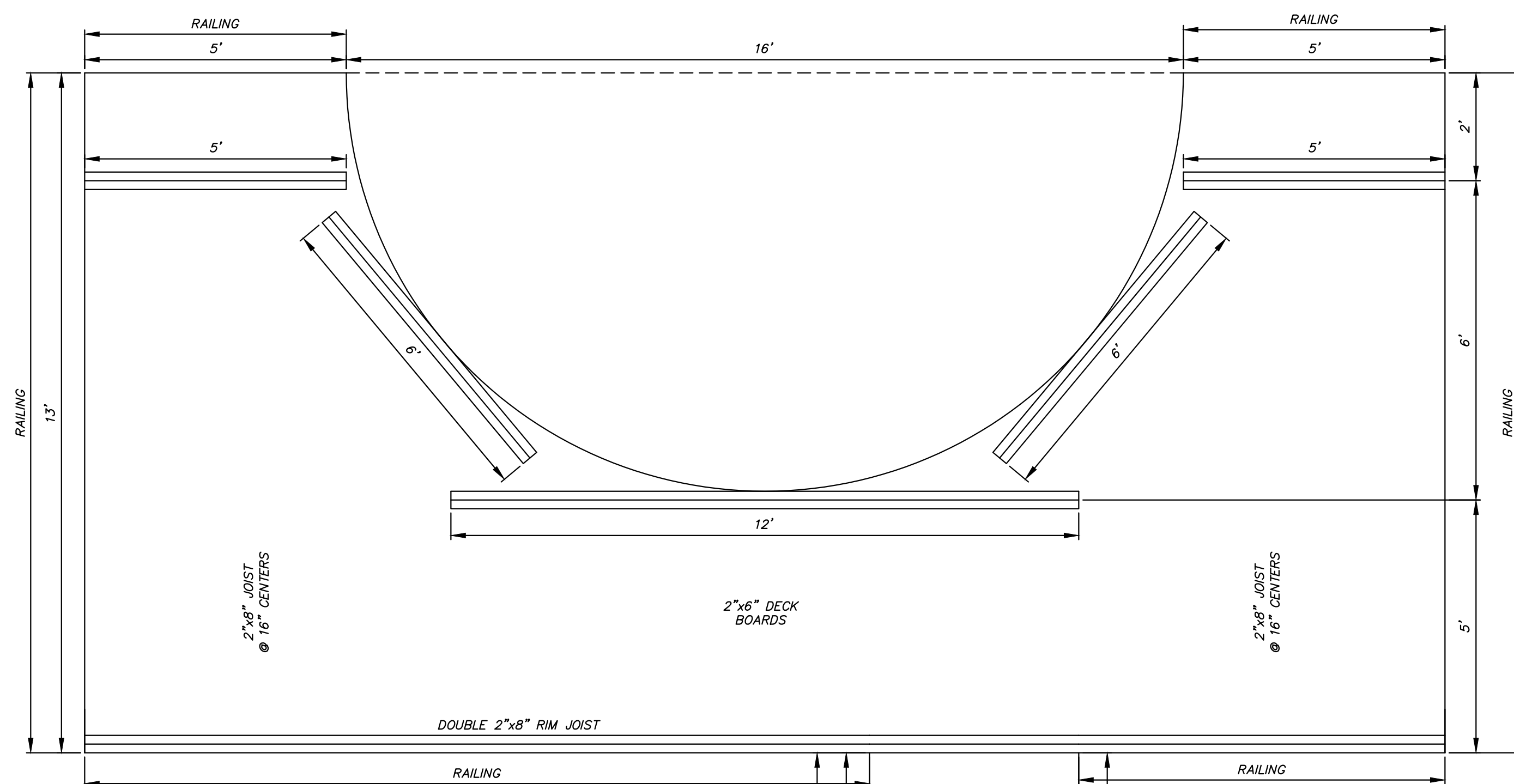
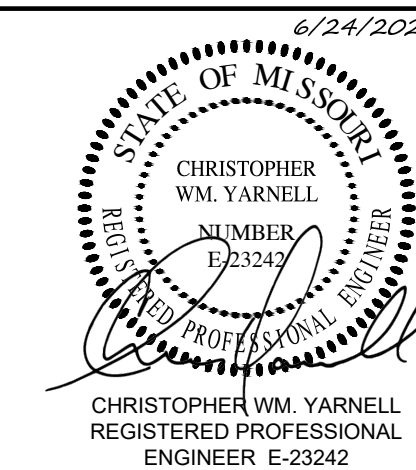
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ISSUE DATE:	06/24/2024

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CHECKED BY: JCB
DESIGNED BY: CWY

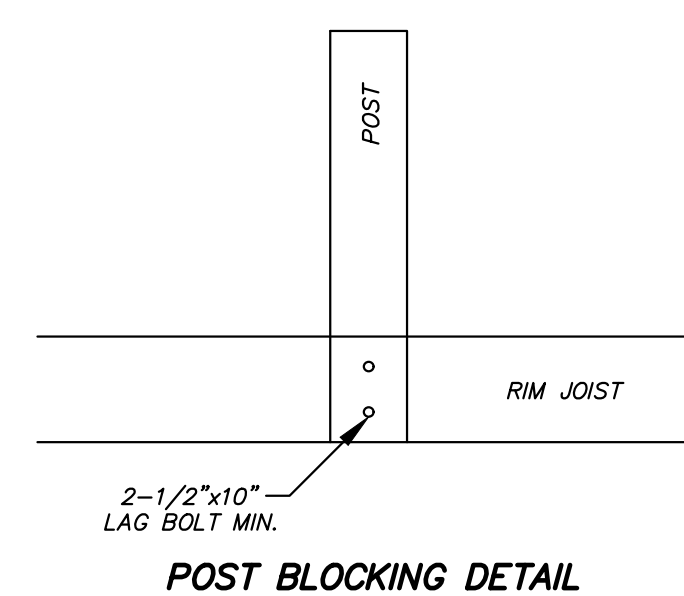
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**YURT ELEVATION
AND DETAILS**

SHEET NUMBER:

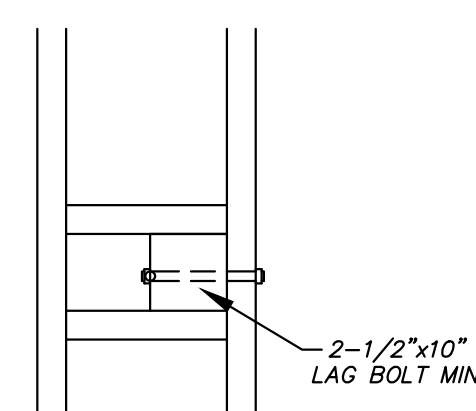
A-201



RAILING DETAIL



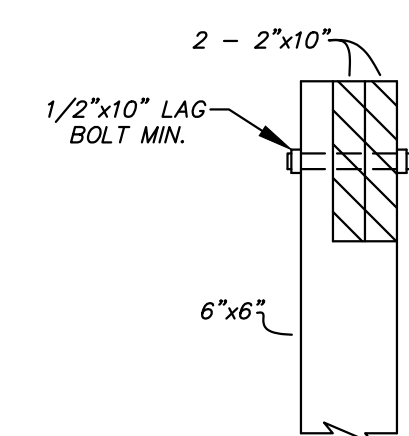
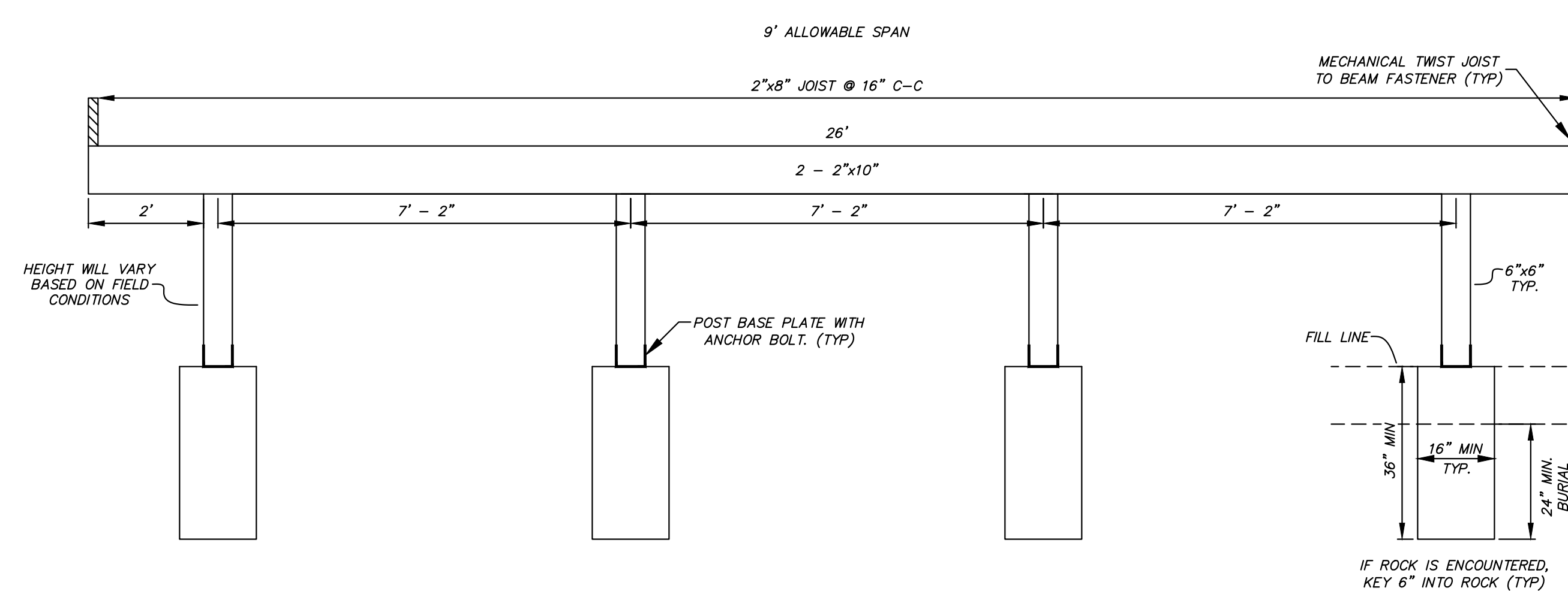
POST BLOCKING DETAIL



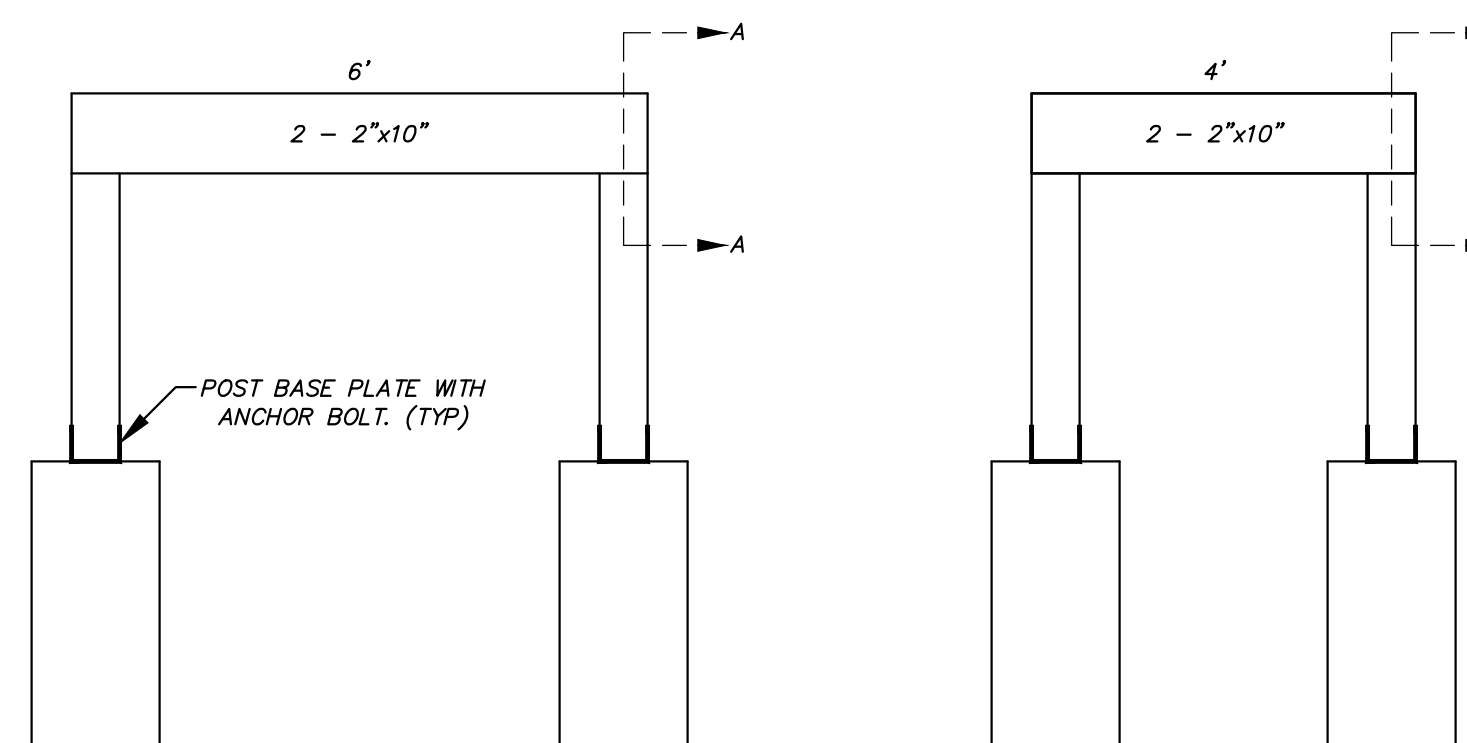
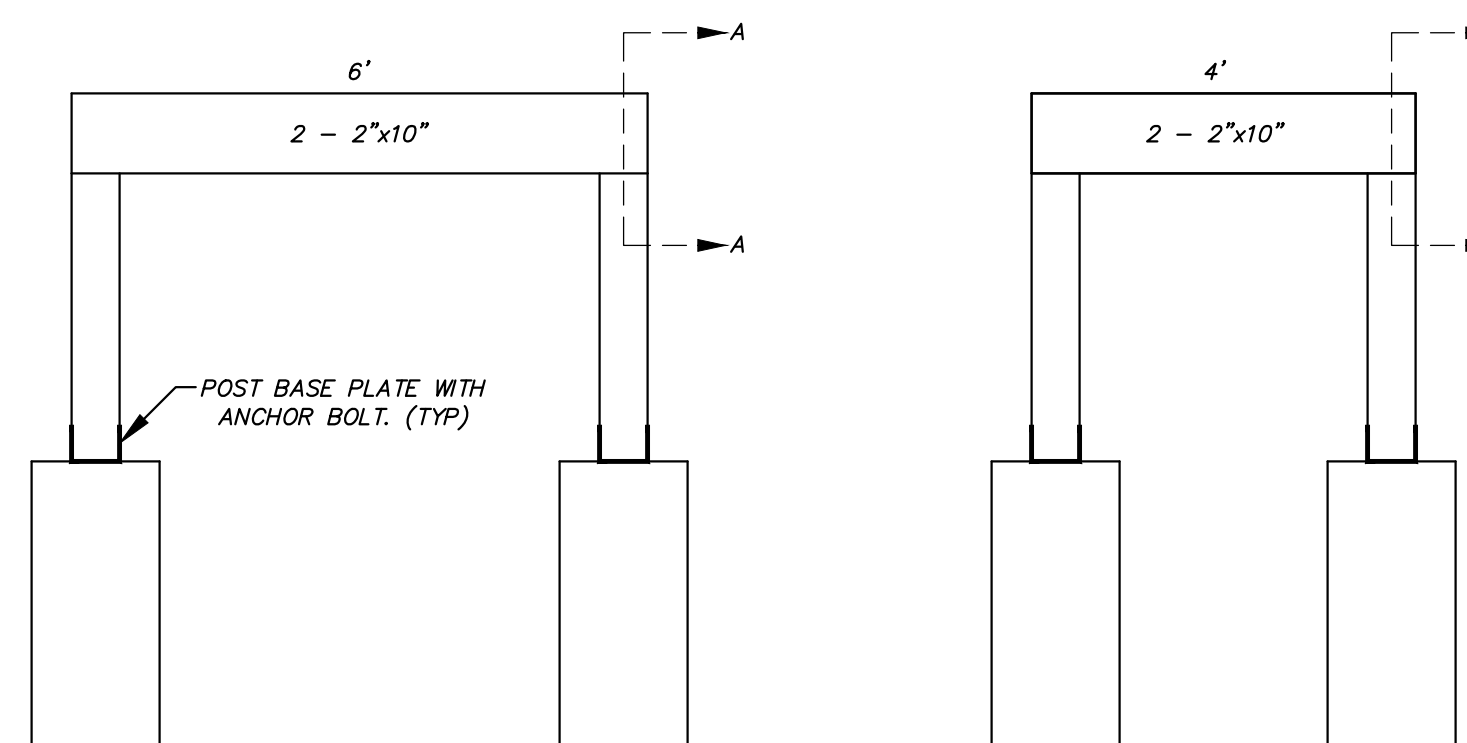
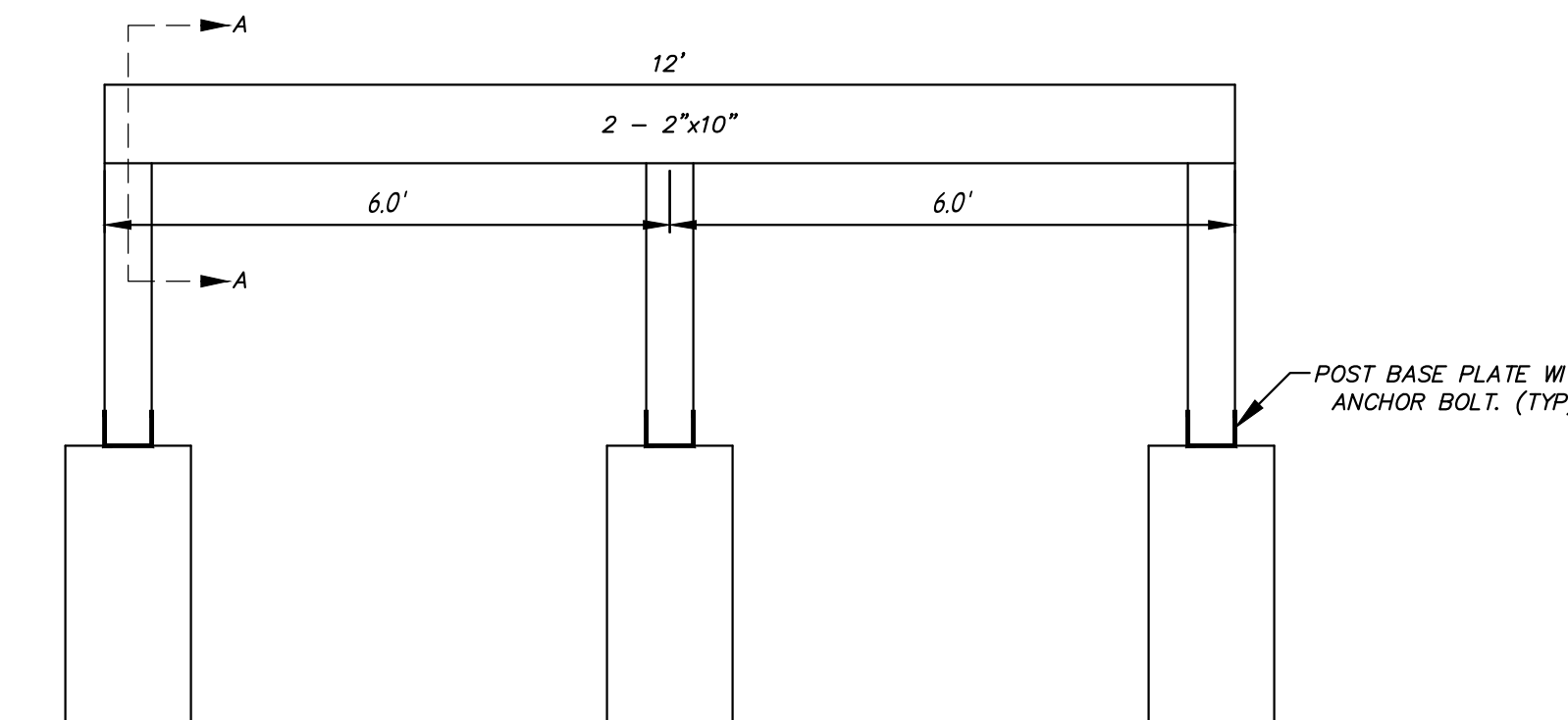
SECTION B-B

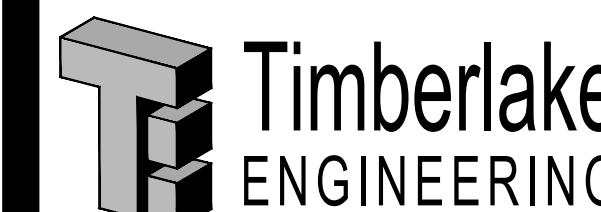
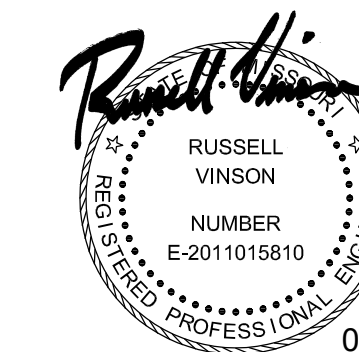
- NOTES:
1. ALL POST HEIGHT SHALL BE ADJUSTED IN THE FIELD TO FIT SITE CONDITIONS.
2. ALL TIMBER SHALL BE EXTERIOR GRADE PRESSURE TREATED LUMBER.
3. ALL JOISTS SHALL BE ATTACHED TO LEDGER BOARDS WITH JOIST HANGERS.

DECK DETAIL
NOT TO SCALE



SECTION A-A





A Custom Engineering Company
912 Old 63 South Columbia, MO 65201
ph: 573.875.4365

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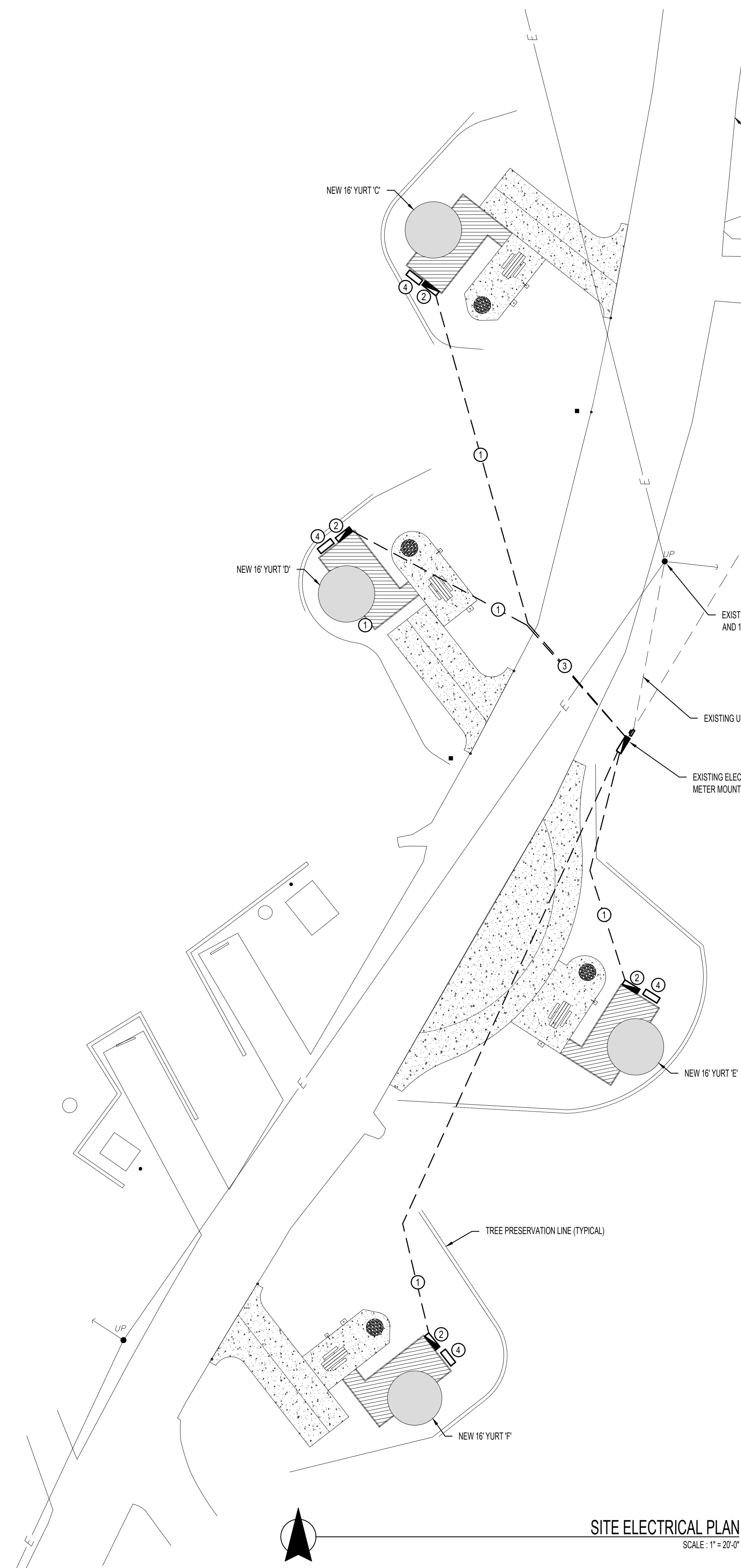
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DRAWN BY: RAV
CHECKED BY: SLF
DESIGNED BY: RAV

SHEET TITLE:
**SITE ELECTRICAL
PLAN**

SHEET NUMBER:

E-101

12 OF 12 SHEETS
06/24/24



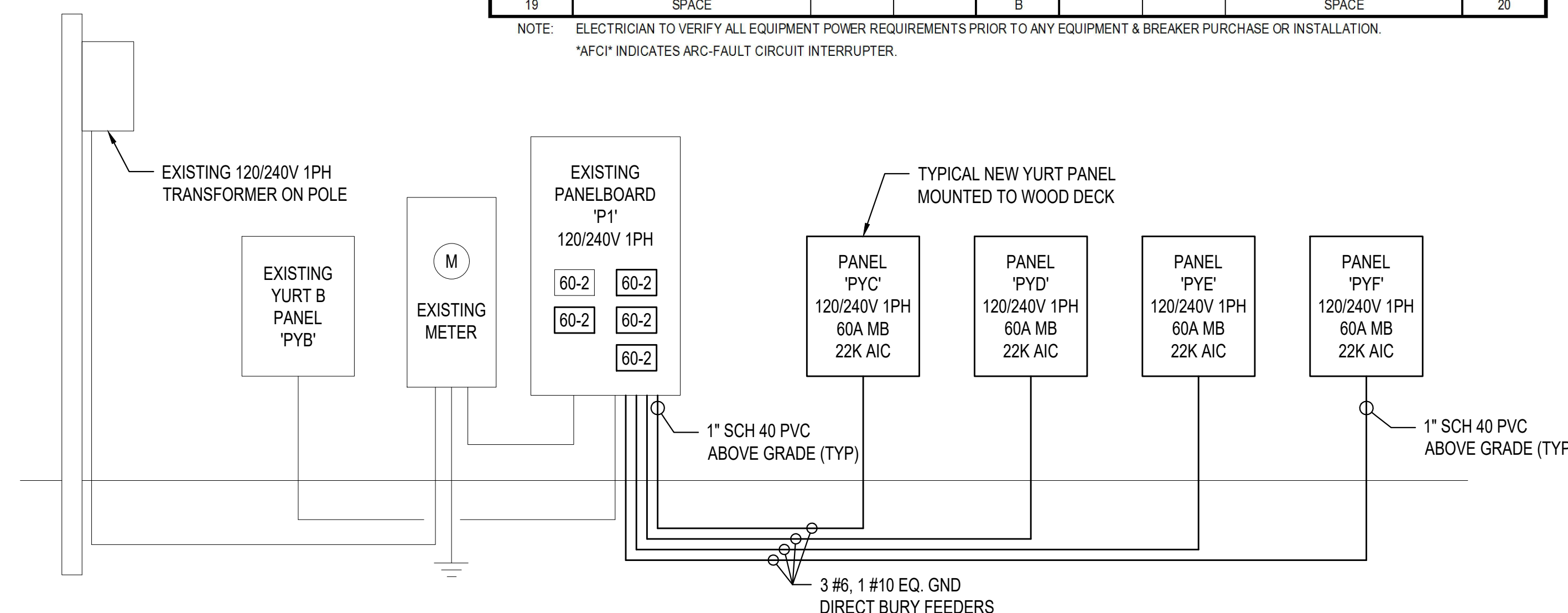
SITE ELECTRICAL PLAN
SCALE: 1" = 20'-0"

ELECTRICAL PANEL SCHEDULE						EXISTING PANEL NO.		P1
VOLTS	240		MAIN CAPACITY:		225 MLO		"A" AMPS =	100
PHASE	1		MOUNTING:		SURFACE		"B" AMPS =	100
WIRE	SEE RISER		BUSS MATERIAL:		COPPER			
AIR	SEE RISER		GE MODEL:					
CKT.	LOCATION/DESC.	BREAKER	AMPS	PH.	AMPS	BREAKER	LOCATION/DESC.	CKT.
1	YURT C PANEL	60-2	20	A	20	60-2	EXISTING YURT B PANEL	2
3	\	\	20	B	20	\	\	4
5	YURT D PANEL	60-2	20	A	20	60-2	YURT F PANEL	6
7	\	\	20	B	20	\	\	8
9	YURT E PANEL	60-2	20	A			SPACE	10
11	\	\	20	B			SPACE	12
13	SPACE			A			SPACE	14
15	SPACE			B			SPACE	16
17	SPACE			A			SPACE	18
19	SPACE			B			SPACE	20

NOTE: ELECTRICIAN TO VERIFY ALL EQUIPMENT POWER REQUIREMENTS PRIOR TO ANY EQUIPMENT & BREAKER PURCHASE OR INSTALLATION.
ALL BREAKERS SHOWN IN **BOLD ITALICS** ARE NEW.

ELECTRICAL PANEL SCHEDULE						TYPICAL YURT PANEL		PY
VOLTS	120/240		MAIN CAPACITY:		60A MB		"A" AMPS =	19.2
PHASE	1		MOUNTING:		SURFACE NEMA 3R		"B" AMPS =	17.7
WIRE	3		BUSS MATERIAL:		COPPER			
AIR	22 KA		SQUARE D MODEL:		QO			
CKT.	LOCATION/DESC.	BREAKER	AMPS	PH.	AMPS	BREAKER	LOCATION/DESC.	CKT.
1	HEAT PUMP	15-2	6.4	A	1.5	20-1	MICROWAVE *AFCI*	2
3	\	\	6.4	B	1.5	20-1	REFRIGERATOR *AFCI*	4
5	ELECTRIC HEATER OUTLET	20-2	8.3	A	1.5	20-1	RECEPTACLE *AFCI*	6
7	\	\	8.3	B	1.5	15-1	LIGHTS *AFCI*	8
9	SPACE			A	1.5	15-1	FIRE ALARM *AFCI*	10
11	SPACE			B			SPACE	12
13	SPACE			A			SPACE	14
15	SPACE			B			SPACE	16
17	SPACE			A			SPACE	18
19	SPACE			B			SPACE	20

NOTE: ELECTRICIAN TO VERIFY ALL EQUIPMENT POWER REQUIREMENTS PRIOR TO ANY EQUIPMENT & BREAKER PURCHASE OR INSTALLATION.
AFCI INDICATES ARC-FAULT CIRCUIT INTERRUPTER.



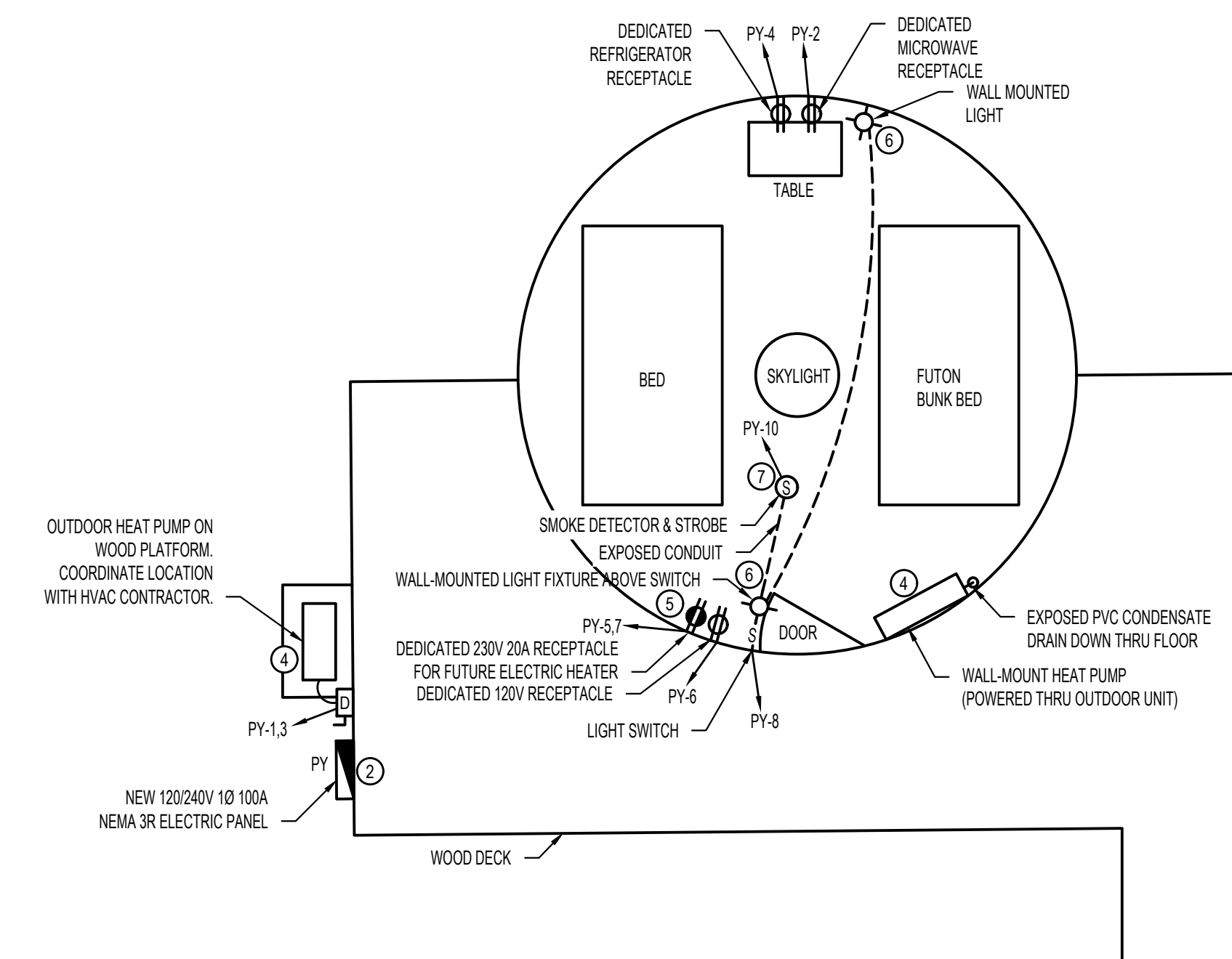
ELECTRICAL RISER DIAGRAM

ELECTRICAL SPECIFICATIONS

- ALL CONDUCTORS SHALL BE THIN COPPER ABOVE GRADE, XHHW-2 BELOW GRADE, MINIMUM #12 OR LARGER AS REQUIRED OR SHOWN.
- ALL SERVICE WIRING, EXPOSED TO WEATHER, OR WIRING BELOW GRADE, SHALL BE IN RIGID GALVANIZED CONDUIT OR SCH. 40 PVC.
- ALL OTHER WIRING SHALL BE IN EMT.
- ALL 120V SINGLE PHASE BRANCH CIRCUITS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER. BREAKERS SHALL BE COMBINATION TYPE BY SQUARE D, AND SHALL HAVE A DEDICATED NEUTRAL WIRE THROUGHOUT THE CIRCUIT. THE ENTIRE SYSTEM SHALL BE ELECTRICALLY CONTINUOUS AND PROPERLY GROUNDED. EVERY FEEDER AND BRANCH CONDUIT SHALL HAVE CODE SIZED GREEN INSULATED GROUND CONDUCTOR.
- PROVIDE TYPEWRITTEN BREAKER SCHEDULE IN EACH PANELBOARD INDICATING ITEMS AND DEVICES SERVED BY ALL BREAKERS IN EACH PANEL.

KEY NOTES

- CONNECT TO EXISTING ELECTRICAL PANEL AND INSTALL NEW 240V 100A DIRECT BURY FEEDER TO NEW YURT. ROUTE NEW FEEDERS AROUND EXISTING TREES AND DO NOT CROSS DESIGNATED TREE PRESERVATION BARRIERS.
- AT EACH NEW YURT, INSTALL NEW 100A NEMA 3R PANEL MOUNTED TO WOOD DECK STRUCTURE. INSTALL BRANCH CIRCUITS, RECEPTABLES AND LIGHTING TO YURT AS SHOWN IN TYPICAL DETAIL. ROUTE ALL CONDUIT BELOW WOOD DECK AND ATTACH TO STRUCTURE AS REQUIRED. COORDINATE LOCATION OF PANEL WITH DECK CONSTRUCTION AND GRADING AT EACH YURT.
- CUT AND PATCH ASPHALT PAVEMENT AS REQUIRED FOR NEW FEEDERS.
- DUCTLESS HEAT PUMP SYSTEM EQUAL TO FRIEDRICH FRHSW803A, 28 SEER, 9000 BTUH NOMINAL COOLING, HEATING OPERATION DOWN TO -15°F. WIRELESS REMOTE CONTROL, SINGLE POINT POWER, 230V, 10, 3 1A, MOUNT UNIT ON 4x4 SLEEPERS SECURED TO WOOD SUPPORT PLATFORM ATTACHED TO DECK AND SUPPORTED FROM GRADE. ROUTE REFRIGERANT PIPING BELOW DECK AND UP INTO YURT PLATFORM AS REQUIRED. COORDINATE LOCATION OF HEAT PUMP PLATFORM WITH DECK CONSTRUCTION AND GRADING AT EACH YURT. MAINTAIN ACCESSIBILITY FOR MAINTENANCE.
- PROVIDE A 230V 20A RECEPTACLE FOR FOR A FUTURE ELECTRIC HEATER UP TO 3500 WATTS.
- SURFACE MOUNTED VANDAL RESISTANT LIGHT FIXTURE EQUAL TO RAB LIGHTING RABVAN1LED12W.
- 120V SINGLE STATION SMOKE ALARM WITH STROBE EQUAL TO FIRST ALERT BRK 70206SL.



TYPICAL YURT ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"