OWNER:

PROJECT

MANAGEMENT:

MICHAEL L. PARSON, GOVERNOR

STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES MISSOURI STATE PARKS

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

**PROJECT NUMBER:** 

SITE NUMBER: ASSET NUMBER: 5110 7815110014

X2333-01



JESSE RAY STEPHENS MO LICENSE - 2010000868

SITE/CIVIL ENGINEER:

CRACKETT ENGINEERING CONSULTANTS 1000 West Nifong, Building 1 Columbia, Missouri 65203 (573) 447-0292 www.crockettengineering.com

Crockett Engineering Consultants, LLC Missouri Certificate of Authority #2000151301

# SEWER RENOVATIONS MARK TWAIN STATE PARK FLORIDA, MISSOURI

# LOCATION MAP



NOT TO SCALE

## **DESIGNER**:

Crockett Engineering 1000 W. Nifong Building 1 Columbia, MO 65203 573-447-0292

# SHEET INDEX

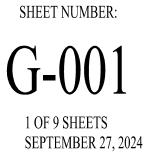
G001 - COVER SHEET G002 - SITE LOCATION PLAN AND GENERAL NOTES

D101 - DEMOLITION PLAN

C101 - DRIP IRRIGATION SITE PLAN

C201 - FILTRATION EQUIPMENT DETAILS C202 - SEPTIC TANK AND PUMP VAULT DETAILS C203 - DRIP IRRIGATION DETAILS (1 OF 2) C204 - DRIP IRRIGATION DETAILS (2 OF 2)

E-101 - ELECTRICAL PLAN







WATER:

CANNON WATER SUPPLY DISTRICT 126 E. MAIN STREET PERRY, MO 63462 573-565-2656

ELECTRIC: RALLS COUNTY ELECTRIC CO-OP 17594 HIGHWAY 19 NEW LONDON, MO 63459 573-985-8711

TELEPHONE/DATA: BRIGHTSPEED 625 CHERRY STREET COLUMBIA, MO 65205 573-886-3700

WATER/SEWER SYSTEM DESIGN LOADS :

CAMPGROUND AREA

 PUBLIC PARK PATRONS WITH BATHHOUSE (113 EACH @ 15 GPD) = 1695 GPD - BASED ON CURRENT EXISTING WATER METER DATA.
 TOTAL ACTUAL SEWER LOAD ASSUMED = 2000 GALLONS PER DAY

2500 GPD DRIP FIELD BEING DESIGNED FOR EXTRA CAPACITY

SOILS INFORMATION: SOILS LOADING DESIGN RATE IS .05 GALLONS PER SQUARE FOOT PER DAY ON AVERAGE FOR DRIP IRRIGATION..

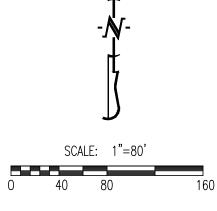
OVERALL WETTED APPLICATION AREA REQUIREMENTS:

BUZZARDS ROOST CAMPGROUND = 2500/.05 - 50,000 SQUARE FEET

## LEGEND OF SYMBOLS:

	EXISTING CURB	
	PROPOSED CURB	ø
	RIP RAP	GV
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w	PROPOSED WATERLINE	— — <b>ə</b>
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G	PROPOSED GAS LINE	(11)
— — — UT — — —	EXISTING UNDERGROUND TELEPHONE	AC
— — — UTV — — —	EXISTING UNDERGROUND CABLE TELEVISION	 [T]
— — - HVE- — —	EXISTING HIGH VOLTAGE ELECTRIC	ET
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XXX	PROPOSED MAJOR CONTOUR	
	100 YEAR FLOOD PLAIN	
$\frac{1}{1}$	FLOODWAY	
· ·	ORDINARY HIGH WATER MARK	
· ·	STREAM SIDE BUFFER	
	OUTER STREAM BUFFER	

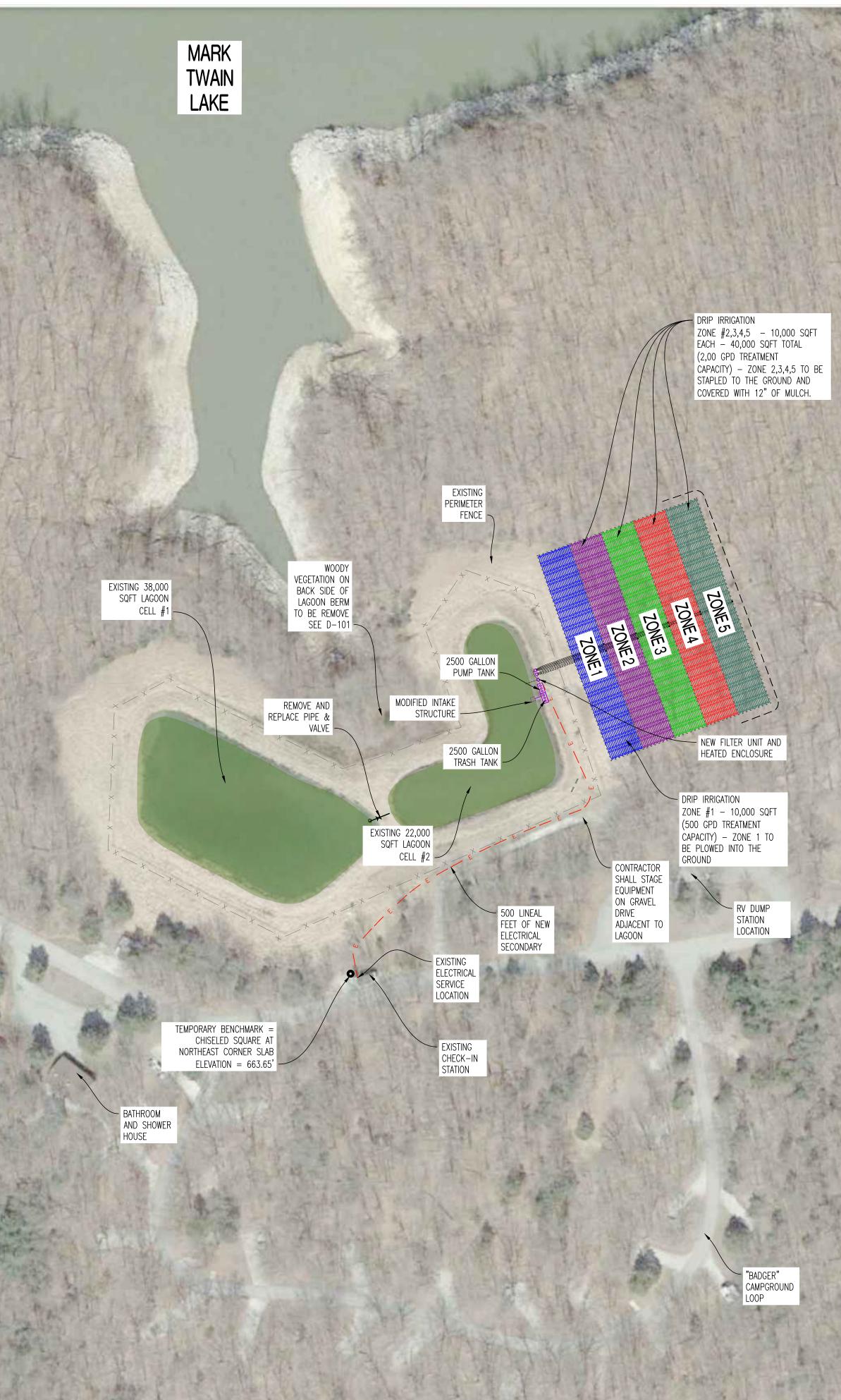
EXISTING SIGNS
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EXISTING WATER METER
EXISTING FIRE HYDRANT
MANHOLE
EXISTING SANITARY SEWER LATERAL
PROPOSED SANITARY SEWER LATERAL
PROPOSED TRACER WIRE TEST STATION BOX
EXISTING AIR CONDITIONER
EXISTING TELEPHONE PEDESTAL
EXISTING ELECTRICAL TRANSFORMER
EXISTING ELECTRIC METER
EXISTING LIGHT POLE
EXISTING GUY WIRE







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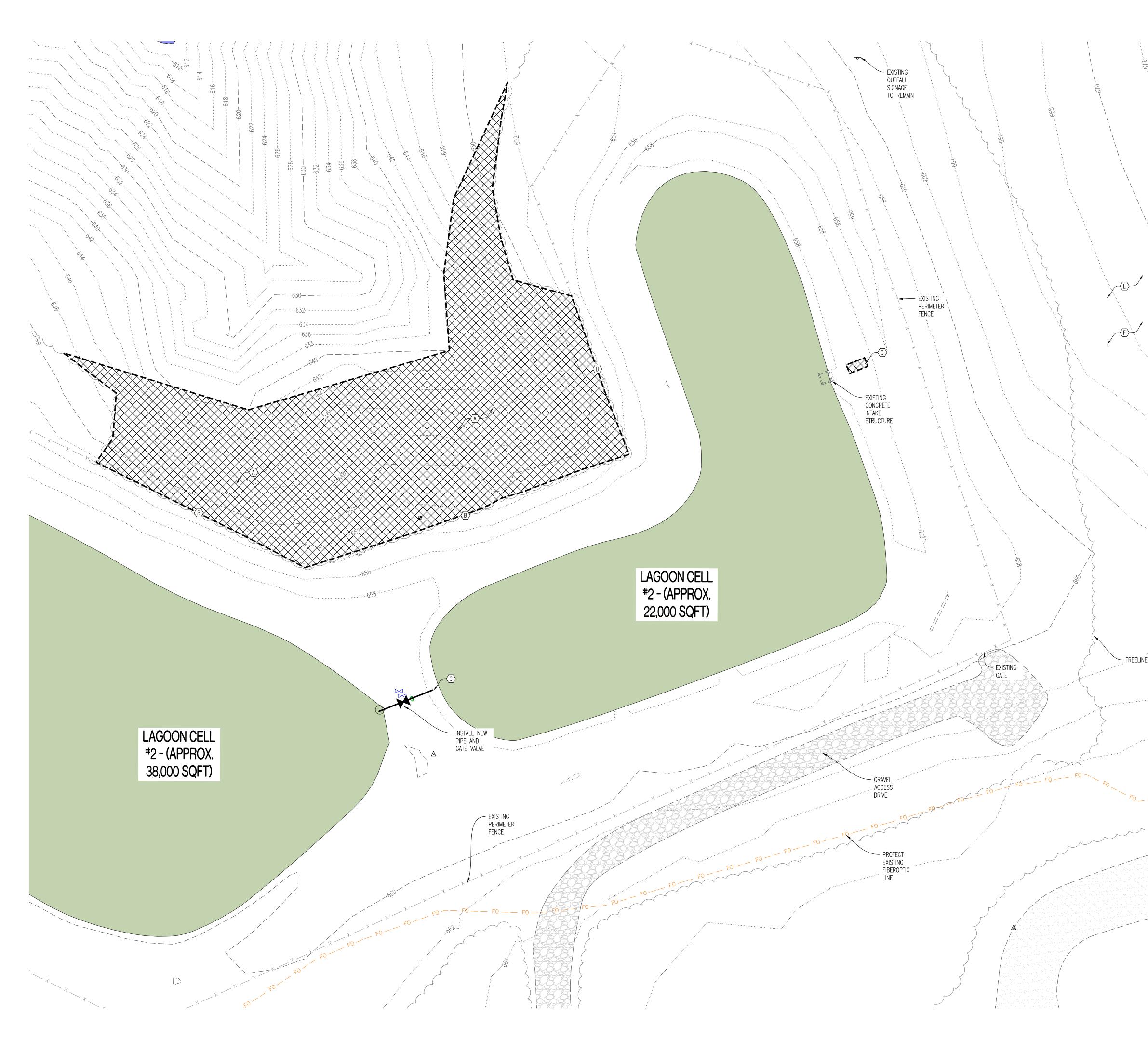


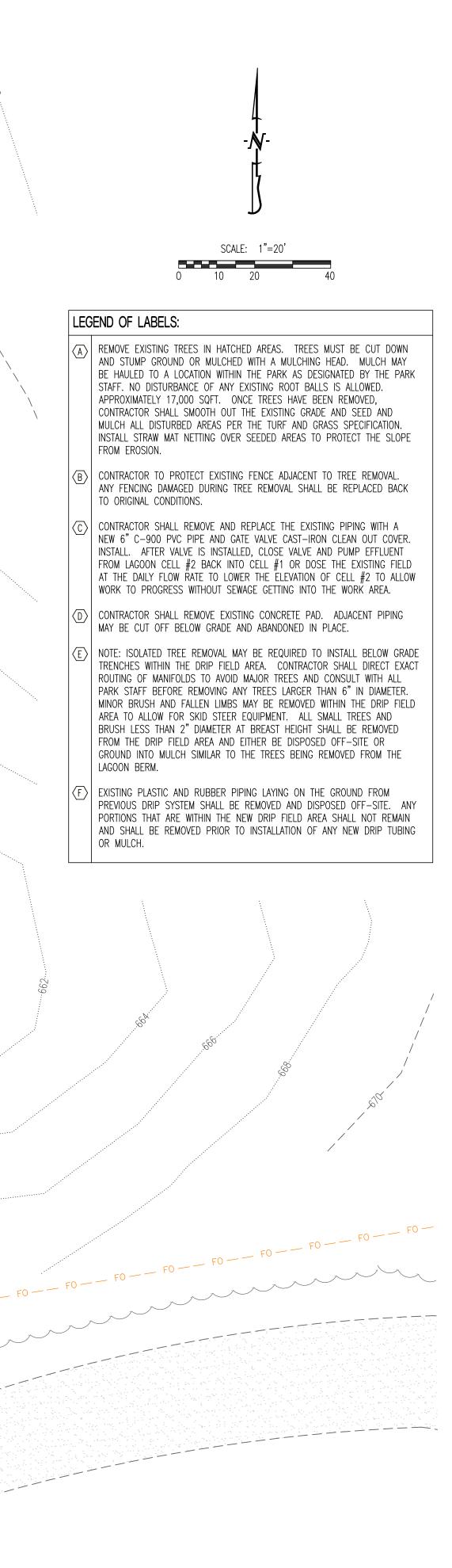
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STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR
A STEPHENS A NUMBER PE-2010000368
JESSE RAY STEPHENS MO LICENSE - 2010000868
SITE/CIVIL ENGINEER: CONTRACTING CONSULTANTS 1000 W. Nifong Bivd., Bldg. 1 Columbia, Missouri 65203 (573) 447-0292 Www.crockettengineering.com Crockett Engineering Consultants, LLC
Missouri Certificate of Authority #2000151301
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION DEPARTMENT OF NATURAL RESOURCES
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SHEET NUMBER:

G-002 2 of 9 SHEETS





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STATE OF MISSOURI MICHAEL L. PARSON,

> JESSE RAY STEPHENS

NUMBER

vE-20100003L

JESSE RAY STEPHENS MO LICENSE - 2010000868

GOVERNOR

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5

SEWER RENOVATIONS MARK TWAIN STATE PARK & MARK TWAIN BIRTHPLACE

### MARK TWAIN STATE PARK 37352 SHRINE ROAD FLORIDA, MO 65283

PROJECT #X2333-01SITE #5110ASSET #7815110014

REVISION:
DATE:
REVISION:
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DATE:
ISSUE DATE: 09/27/2024

CAD DWG FILE:	C-SIT-D101
DRAWN BY:	JRS
CHECKED BY:	ATG
DESIGNED BY:	JRS

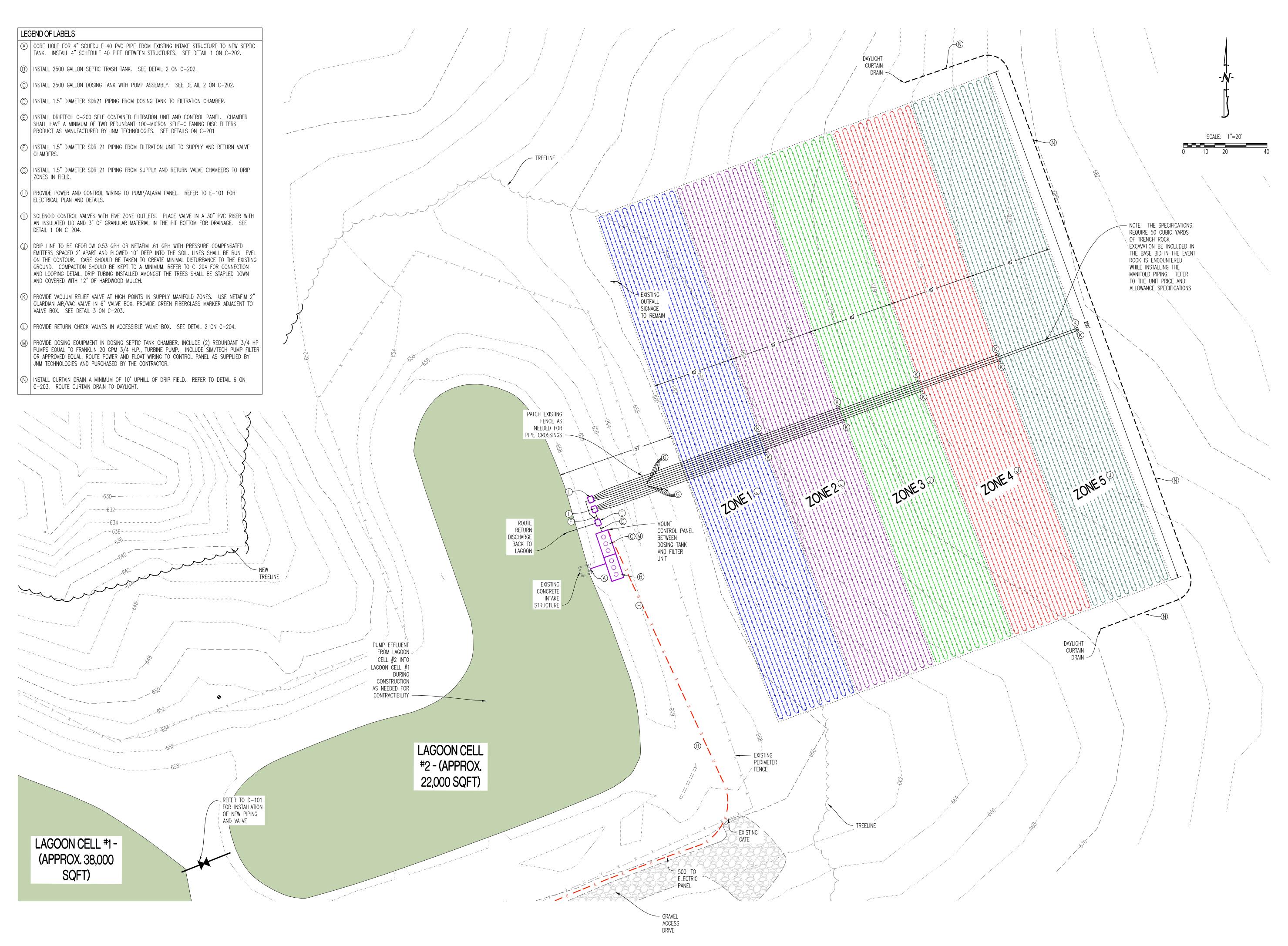
SHEET TITLE:

DEMOLITION PLAN

SHEET NUMBER:

**D-101** 3 of 9 SHEETS

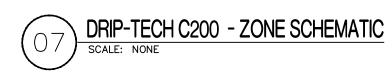
CROCKETT PROJECT #230322



STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR
* STEPHENS *
JESSE RAY STEPHENS MO LICENSE - 2010000868
SITE/CIVIL ENGINEER:
ENGINEERING CONSULTANTS 1000 W. Nifong Blvd., Bldg. 1 Columbia Microwit 45002
Columbia, Missouri 65203 (573) 447-0292 www.crockettengineering.com
Crockett Engineering Consultants, LLC Missouri Certificate of Authority #2000151301
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SHEET NUMBER:

**C-101** 4 of 9 SHEETS



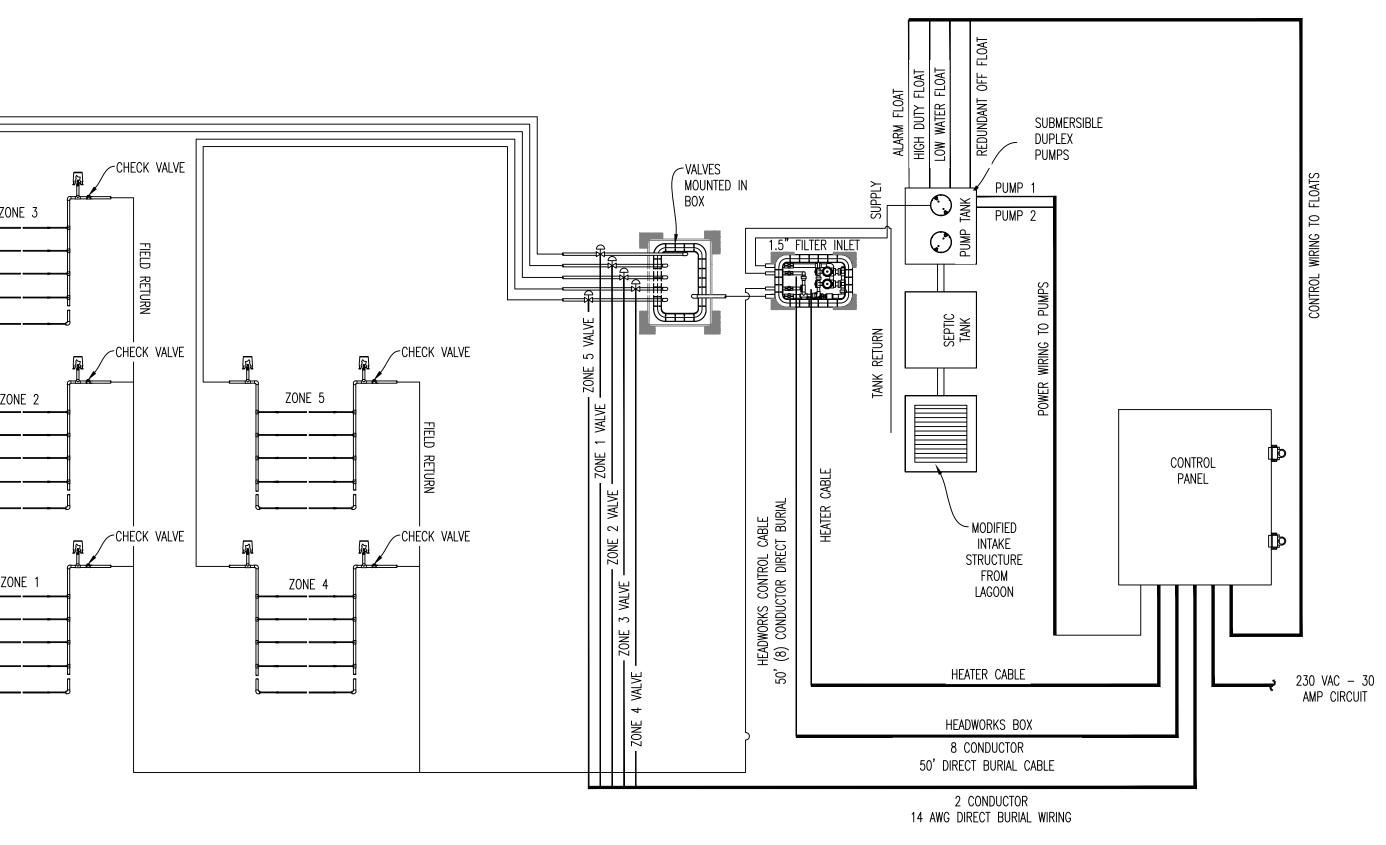
4) ALL BELOW GROUND PITS CONTAINING VALVES AND PIPING SHALL BE PROVIDED WITH A 60 WATT HEAT TRACE CIRCUIT FOR WINTER OPERATION

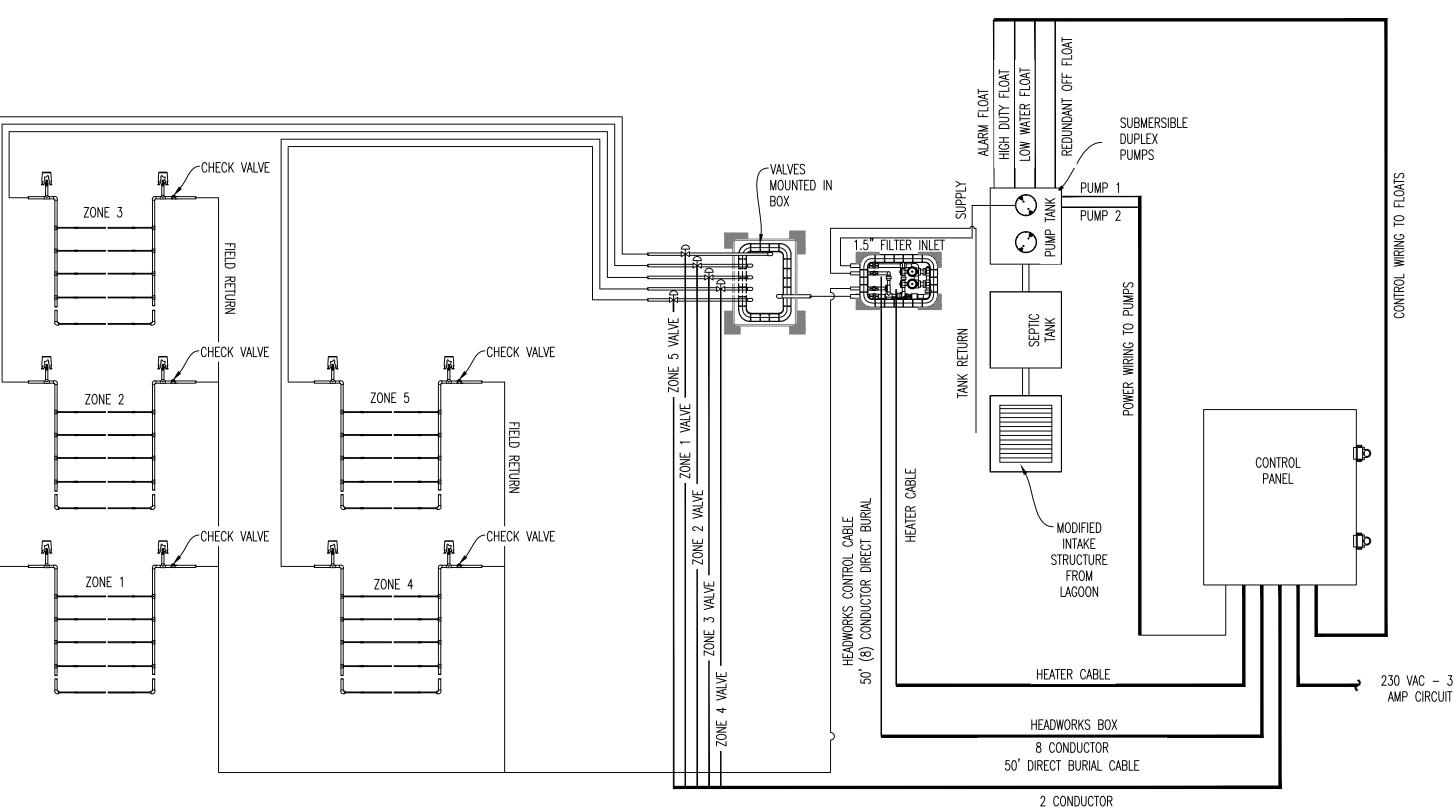
A SHOP DRAWING OF THE PUMP CONTROL PANEL AND OPERATIONAL SEQUENCE TO BE PROVIDED TO THE ENGINEER FOR REVIEW

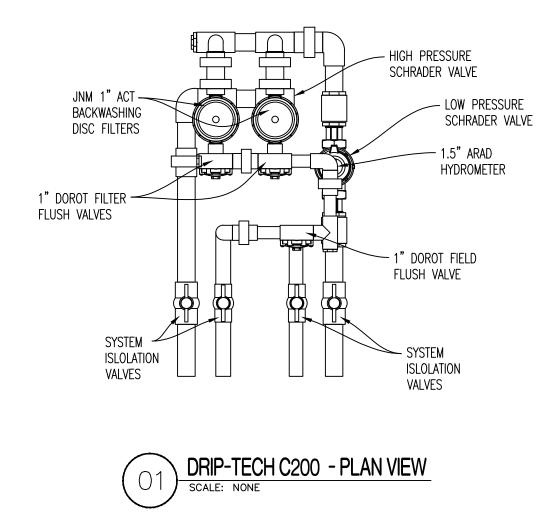
CONTROLS SHALL BE HOUSED IN A STAINLESS STEEL NEMA 4X ENCLOSURE

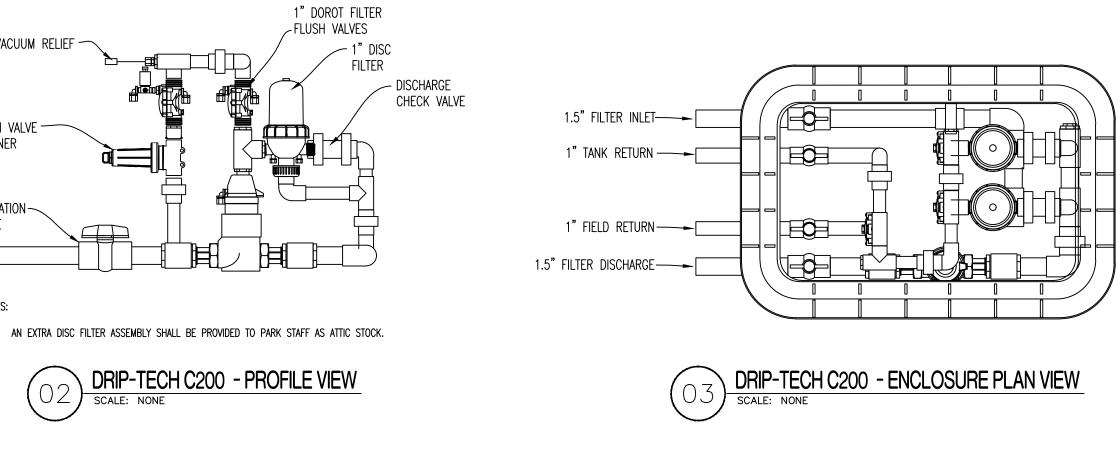
PUMP CONTROL PANEL TO BE PROVIDED BY JNM TECHNOLOGIES.

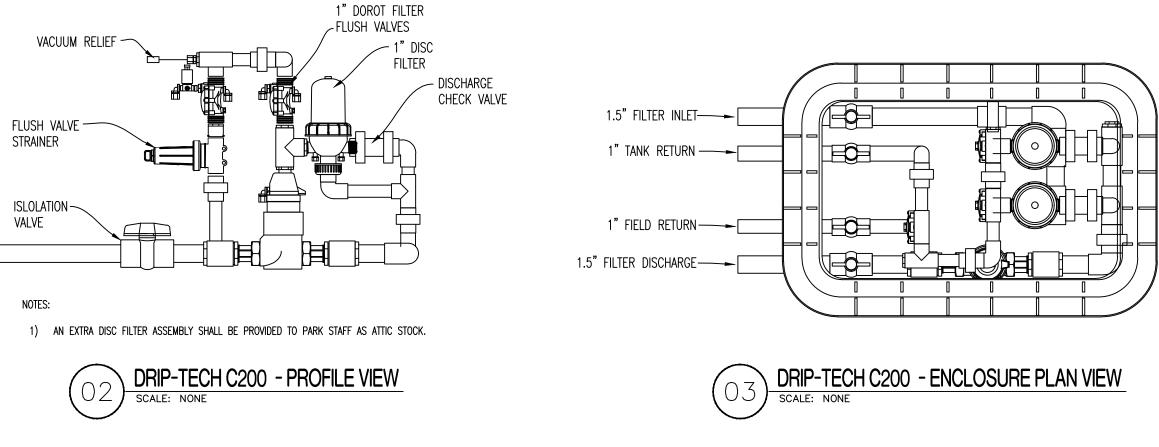
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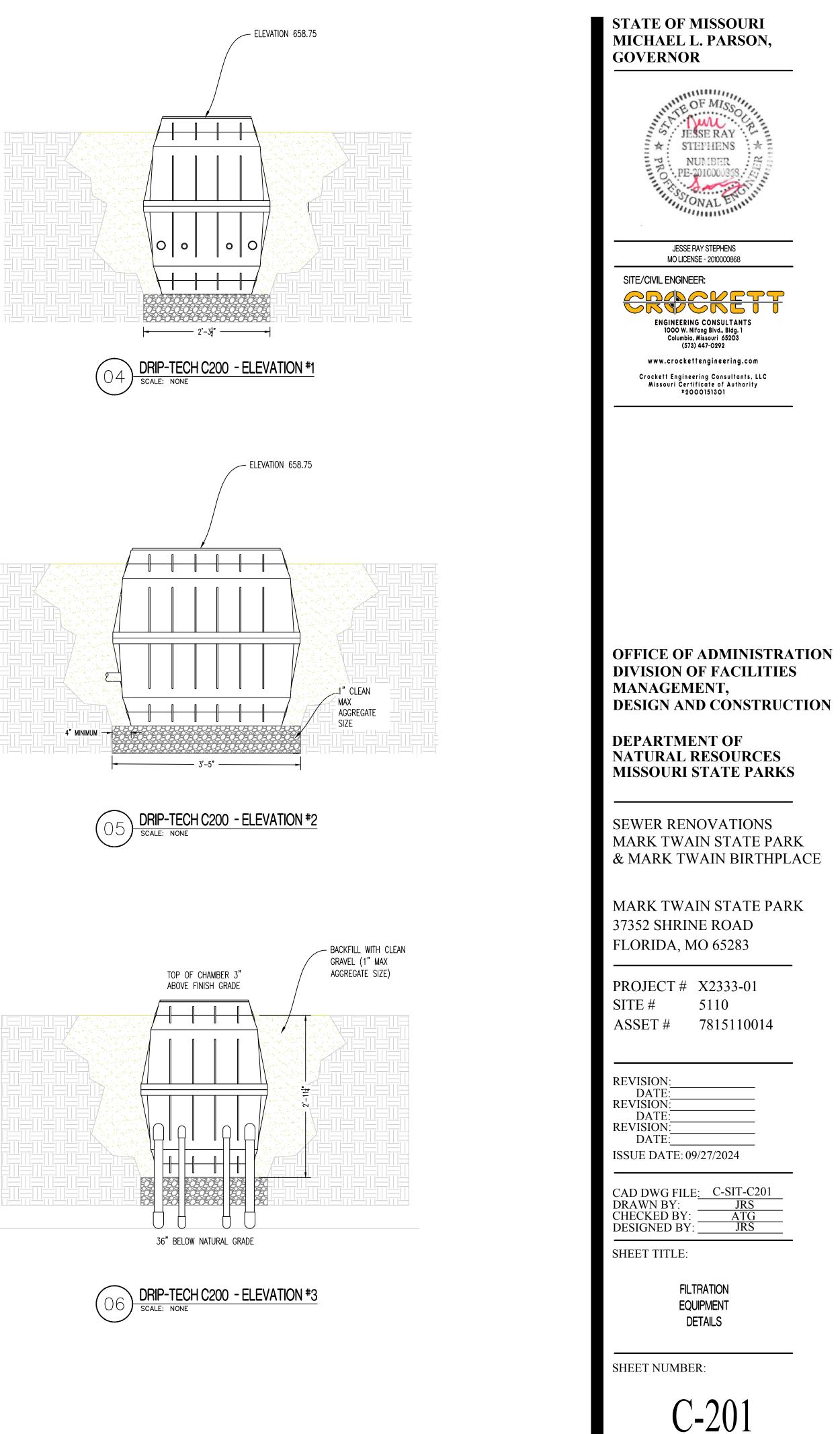


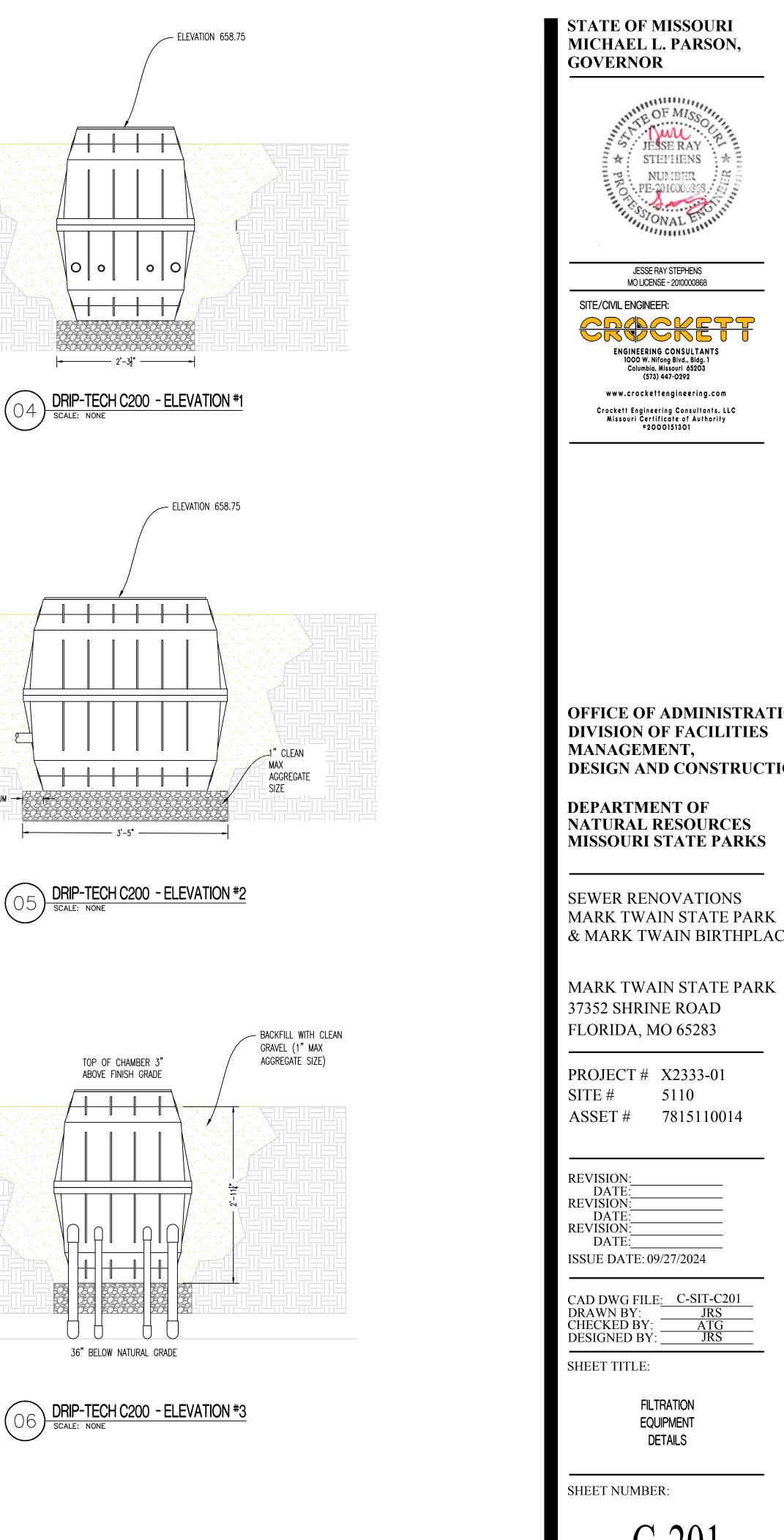


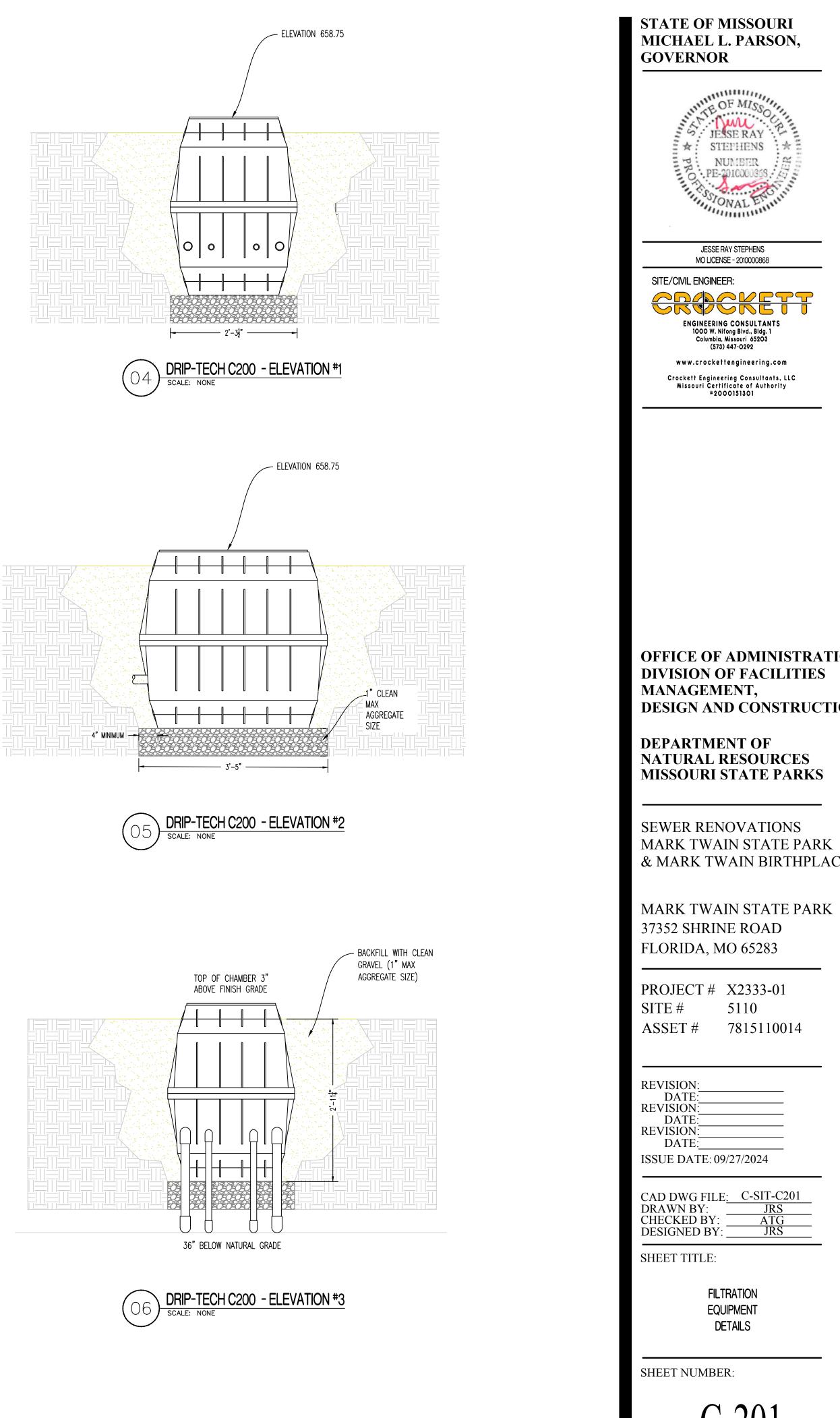


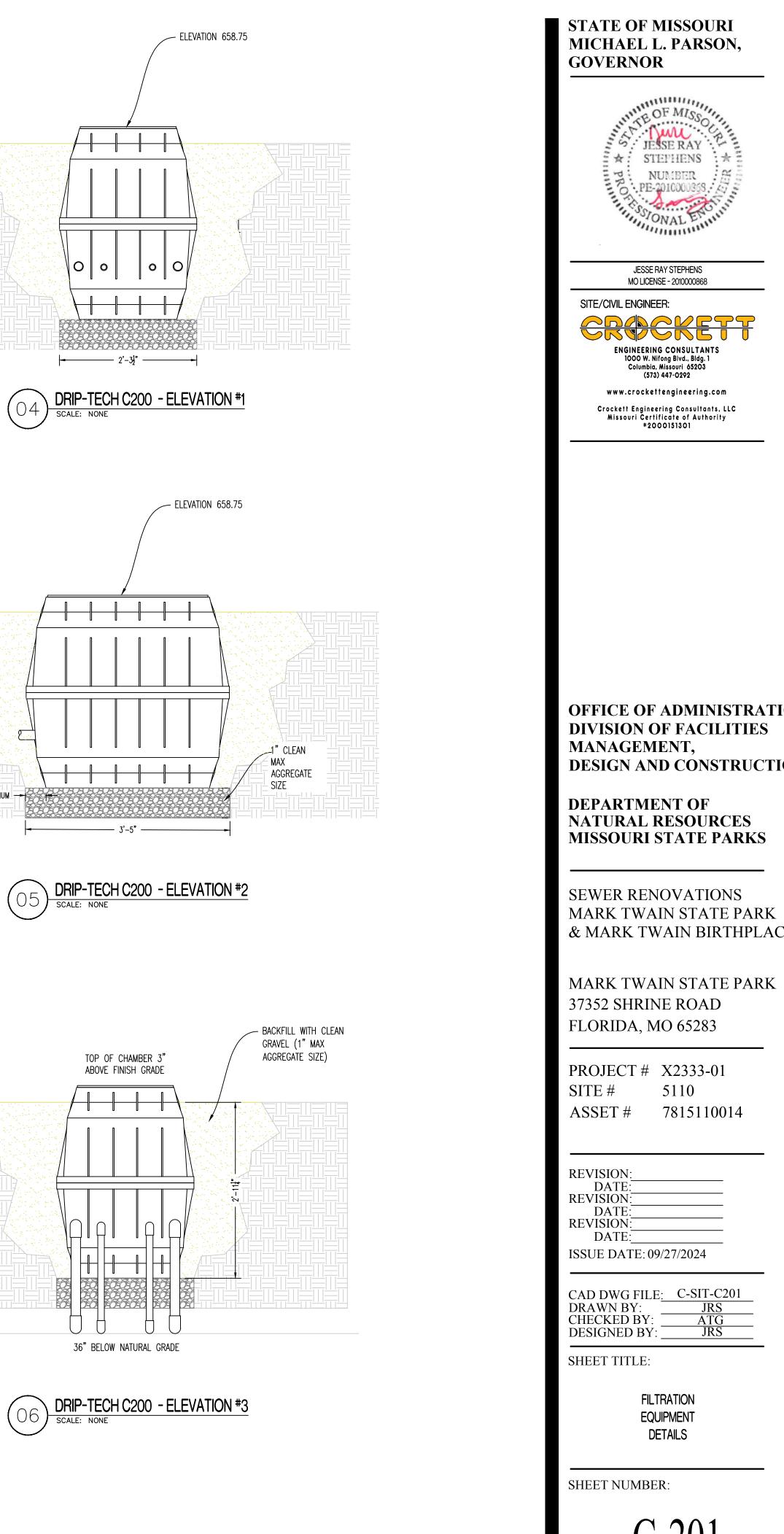


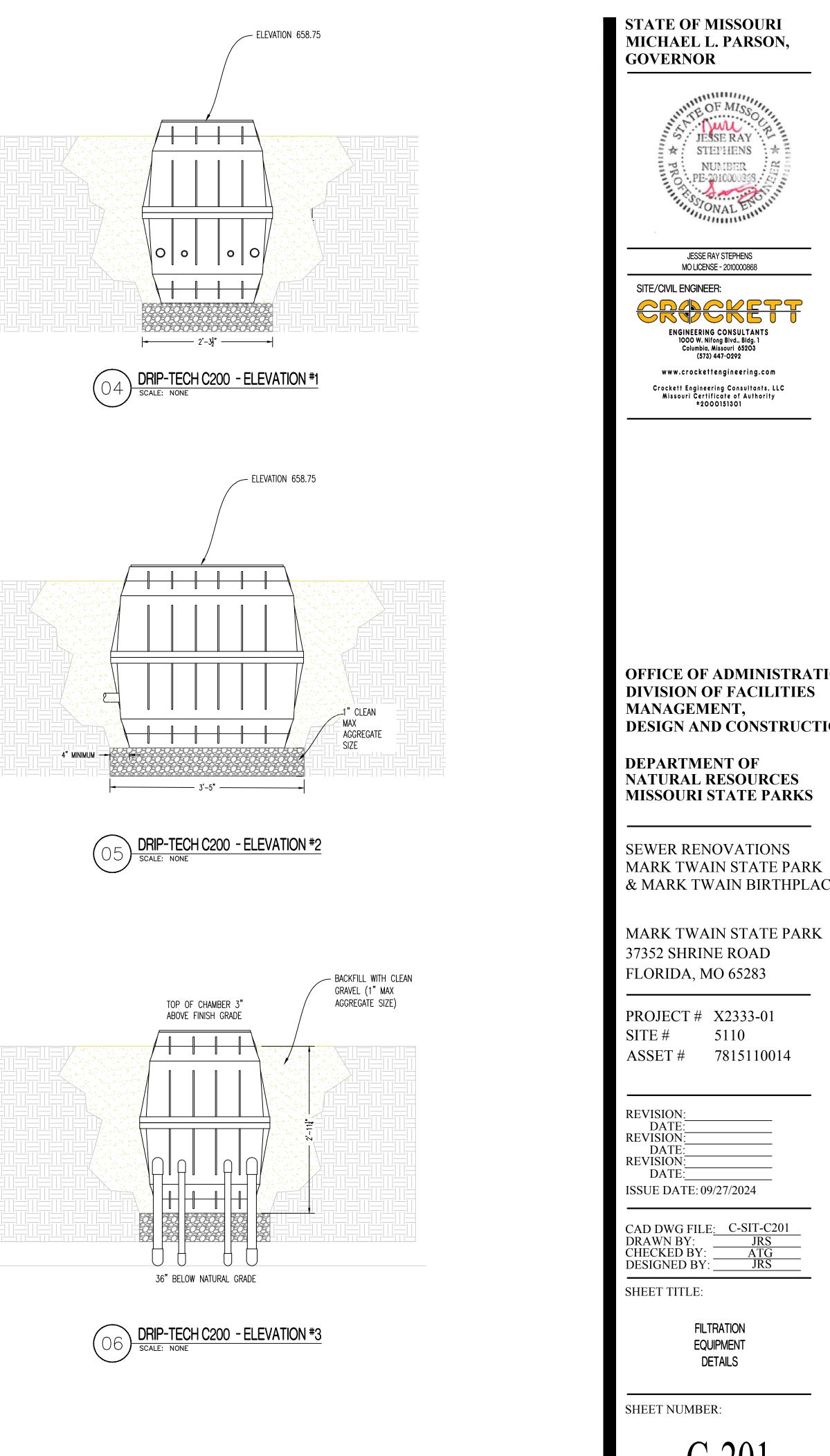


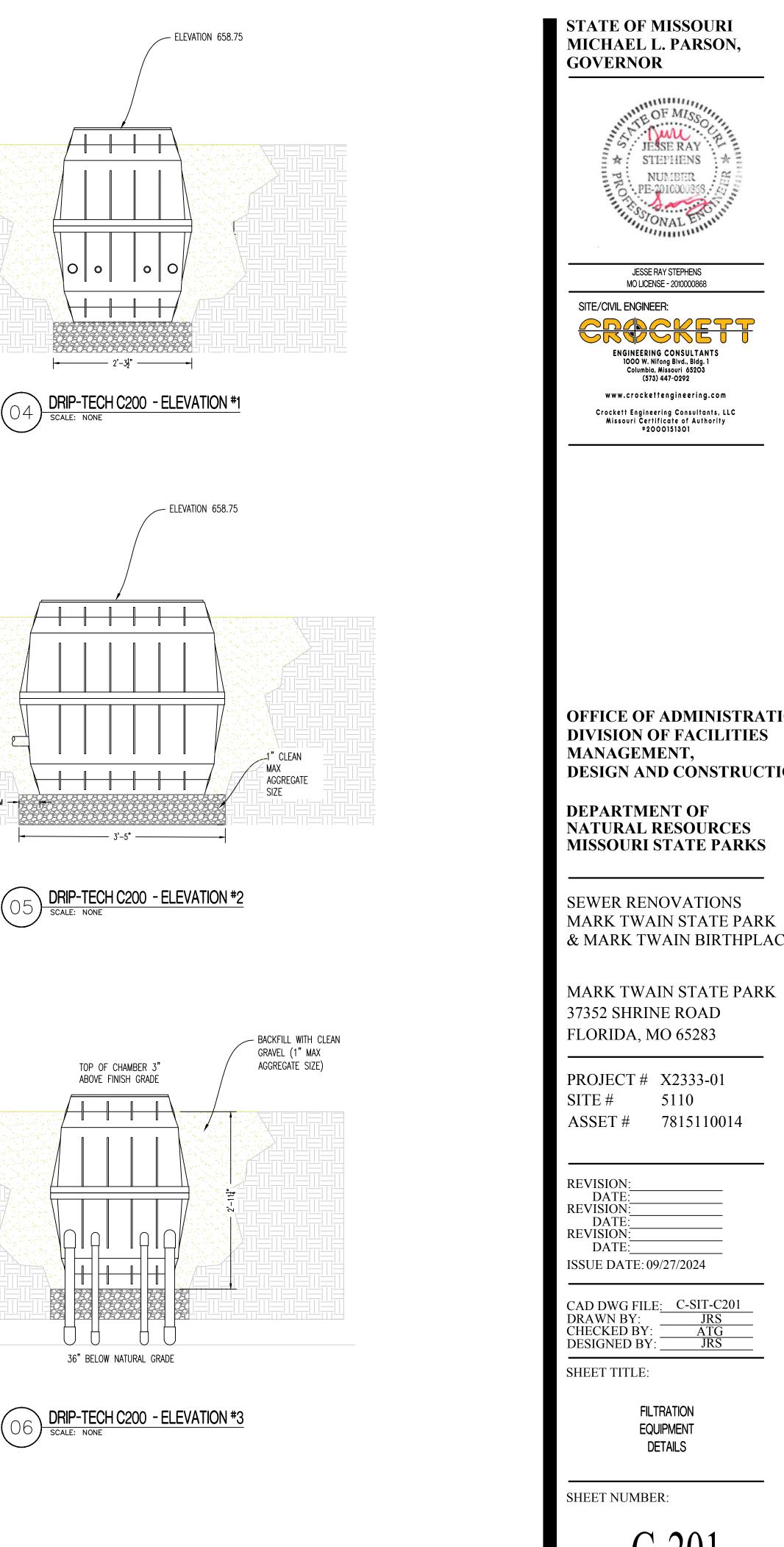




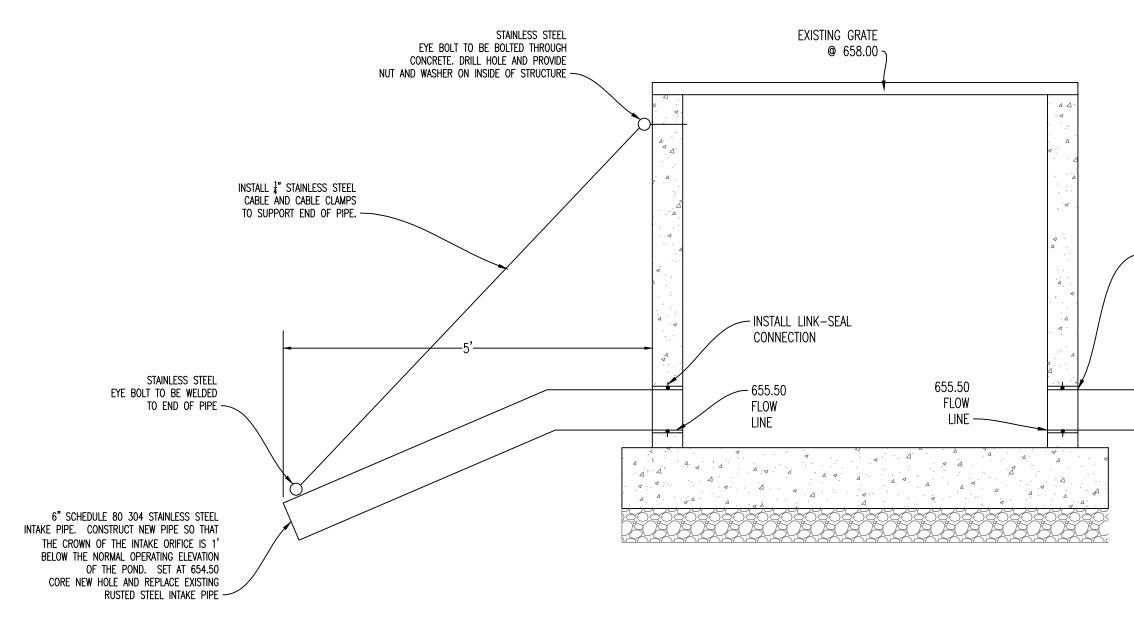




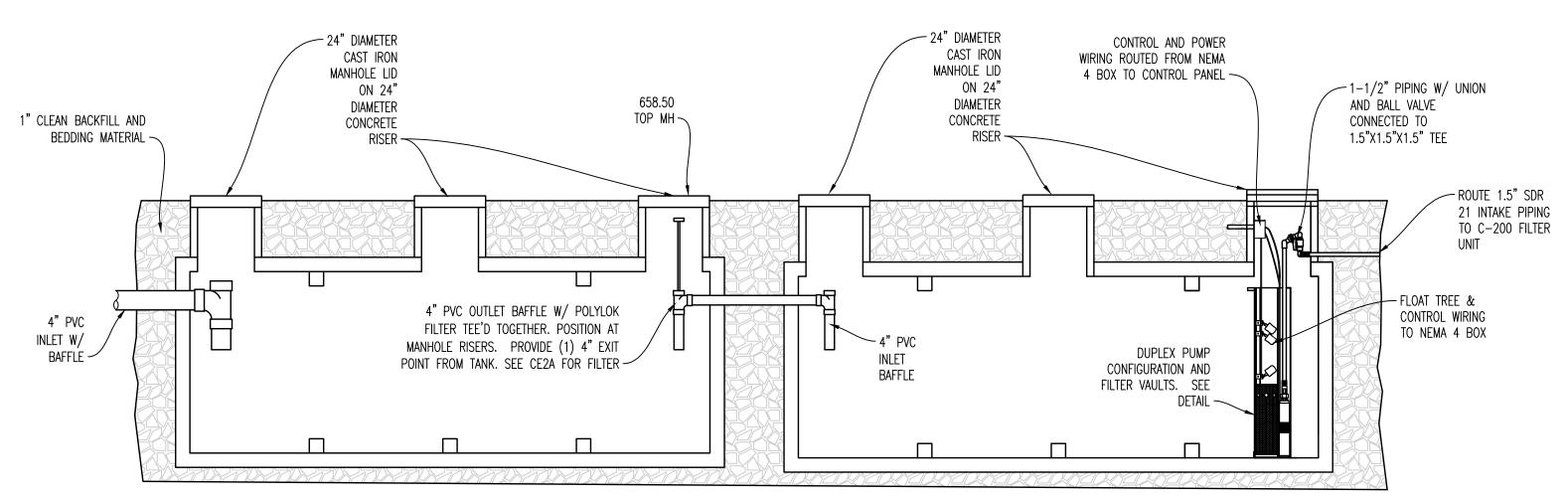




5 of 9 SHEETS

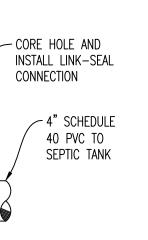


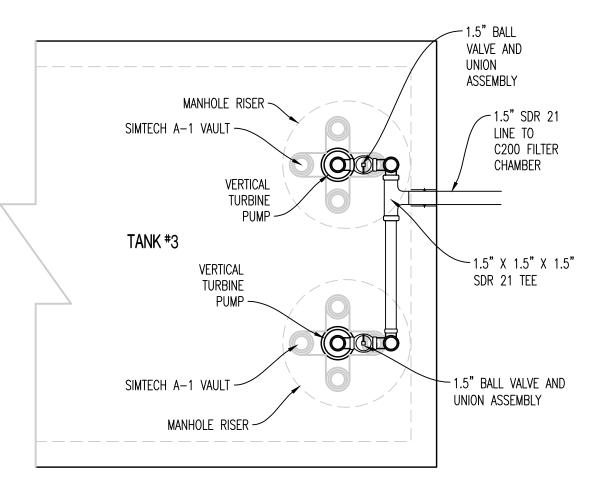
VINTAKE STRUCTURE MODIFICATION DETAIL SCALE: NONE



TANK #1-(2500 GALLONS) (TRASH TANK)









TANK #2 - (2500 GALLONS) (PUMP DOSING TANK)

### GENERAL NOTES:

CONTRACTOR SHALL PROVIDE (2) 2500 GALLON PRECAST CONCRETE SEPTIC TANKS WITH CONCRETE RISERS AND CAST IRON LIDS. PROVIDE A-LOK OR LINK SEAL PIPING CONNECTIONS AT ALL PENETRATIONS. PROVIDE SHOP DRAWING FOR EACH TANK AND PROVIDE ANTI-FLOTATION ANCHORAGE OR CALCULATIONS PROVING FLOTATION IS NOT POSSIBLE.

BOTH PUMPS SHALL BE FRANKLIN E-SERIES 3/4 H.P. FILTERED EFFLUENT PUMP – 230 VOLT SINGLE PHASE.

NOTES:

CONTRACTOR SHALL PROVIDE ALL NECESSARY SCHEDULE 80 PVC PIPING, COUPLINGS, FITTINGS, VALVES, AND ALL APPURTENANCES, EXCAVATING, BACKFILL, ETC. TO COMPLETE THE PUMP INSTALLATION AND CONSTRUCTION.

COMPONENTS.

PUMP SUPPLIER TO PROVIDE LEVEL CONTROL FLOATS AS SHOWN ON WET WELL SCHEMATIC. THESE FLOATS SHALL INTEGRATE WITH THE CONTROL PANEL AND EQUIPMENT AS PROVIDED BY JNM TECHNOLOGIES.

AND STROBE, & LIGHTNING PROTECTION.

ALL PUMP EQUIPMENT AND INSTALLATION SHALL BE CERTIFIED BY THE EQUIPMENT SUPPLIER. PUMP MANUFACTURER AND CONTRACTOR SHALL PROVIDE A FACTORY START-UP AND TRAINING IN THE PRESENCE OF THE OWNERS REPRESENTATIVE.

THE CONTRACTOR SHALL WARRANTY THE PUMPS FOR A PERIOD OF ONE YEAR FOLLOWING START-UP.

PUMPS.

SEPTIC TANK LIDS SHALL BE CAST IRON. ALL TANK RISERS SHOULD BE CONCRETE.

CONTROL PANEL SHALL BE CONFIGURED WHERE BOTH PUMPS ARE TO ALWAYS BE ALTERNATING AND NOT RUN SIMULTANEOUSLY UNLESS THERE IS A CALL FOR FIELD OR FILTER FLUSHING. IT IS REQUIRED FOR PUMPS TO ALTERNATE USAGE TO ENSURE EVEN WEAR ON THE PUMPS.

NEW PIPE PENETRATIONS IN CONCRETE SHALL HAVE A LINK SEAL AT EACH PIPE PENETRATION.

ТОР
658.50
HIGH WATER ALARM 656.50 1.5" FORCE MAIN
<u>Discharge flowline</u> 655.50
PUMP_ON 652.00
PUMPS_OFF 651.00
LOW WATER ALARM 650.50 BASIN DEPTH
650.00

1) FINAL FLOAT ELEVATIONS MAY BE REVISED AFTER REVIEW OF SEPTIC TANK SHOP DRAWINGS



ALL ELECTRIC WORK SHALL COMPLY WITH NATIONAL ELECTRIC CODE. PUMP SUPPLIER SHALL PROVIDE WIRING DIAGRAMS FOR ALL

ALL BOLTS, NUTS, FASTENERS, BRACKETS, MOUNTS AND OTHER APPURTENANCES IN THE WET WELL SHALL BE STAINLESS STEEL.

PUMP STATION CONTROL PANEL ASSEMBLY SHALL INCLUDE A 120 VOLT GFCI DUPLEX SERVICE OUTLET, EXTERIOR ALARM WITH HORN

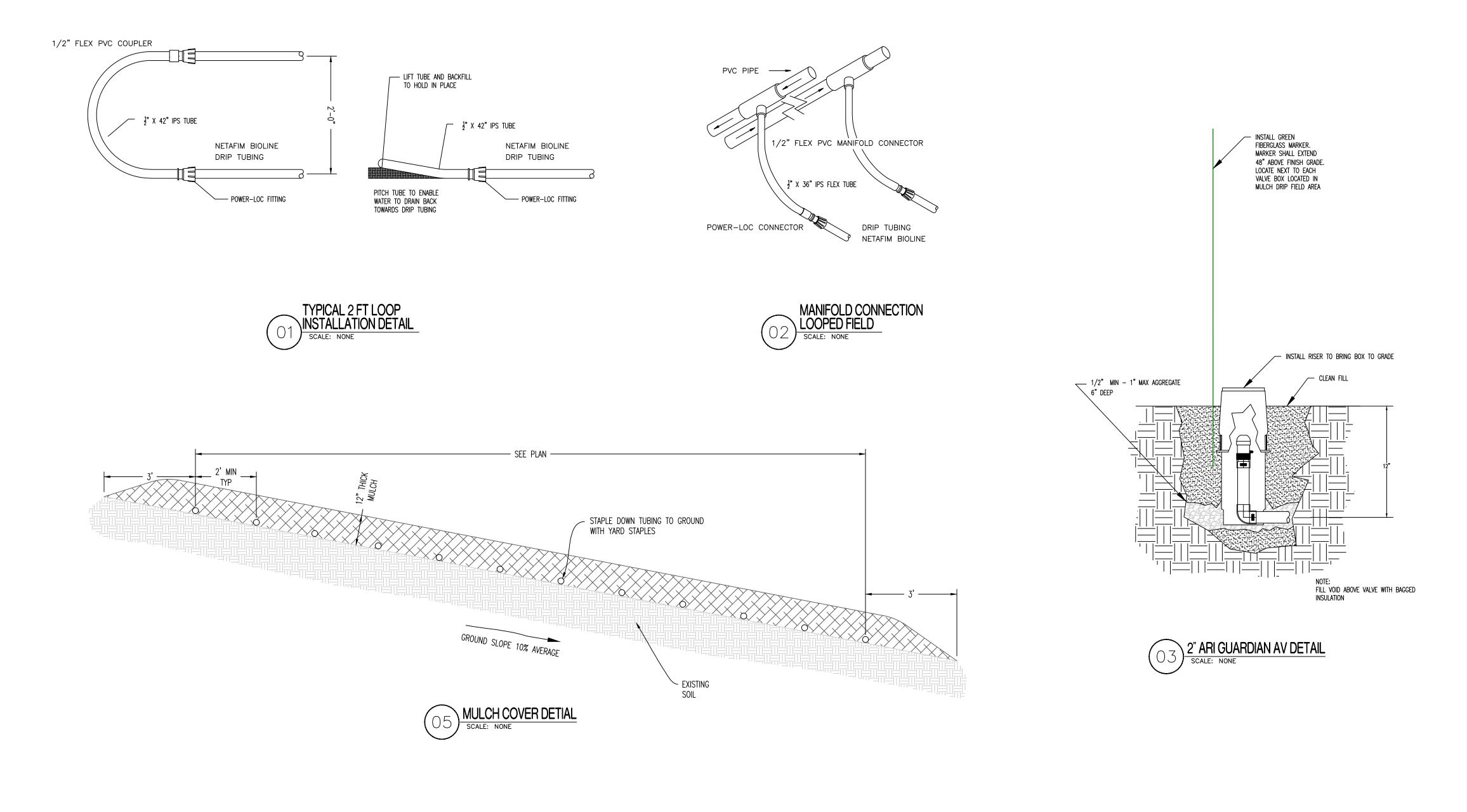
COMPLETE OPERATION AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE OWNERS REPRESENTATIVE PRIOR TO ACCEPTANCE OF

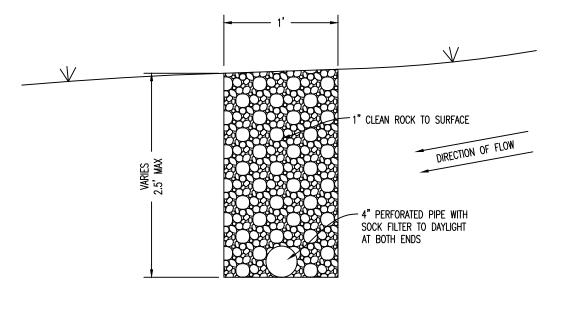
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CROCKETT PROJECT #230322

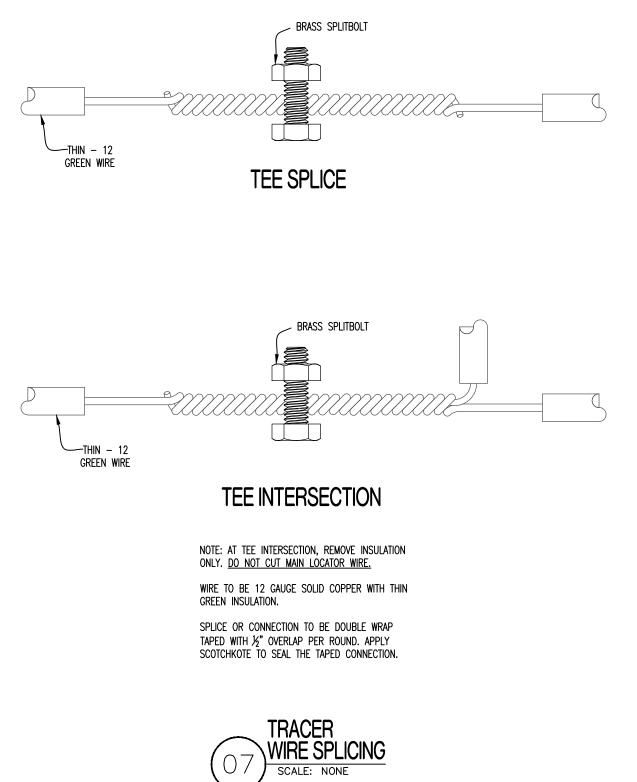
6 of 9 SHEETS

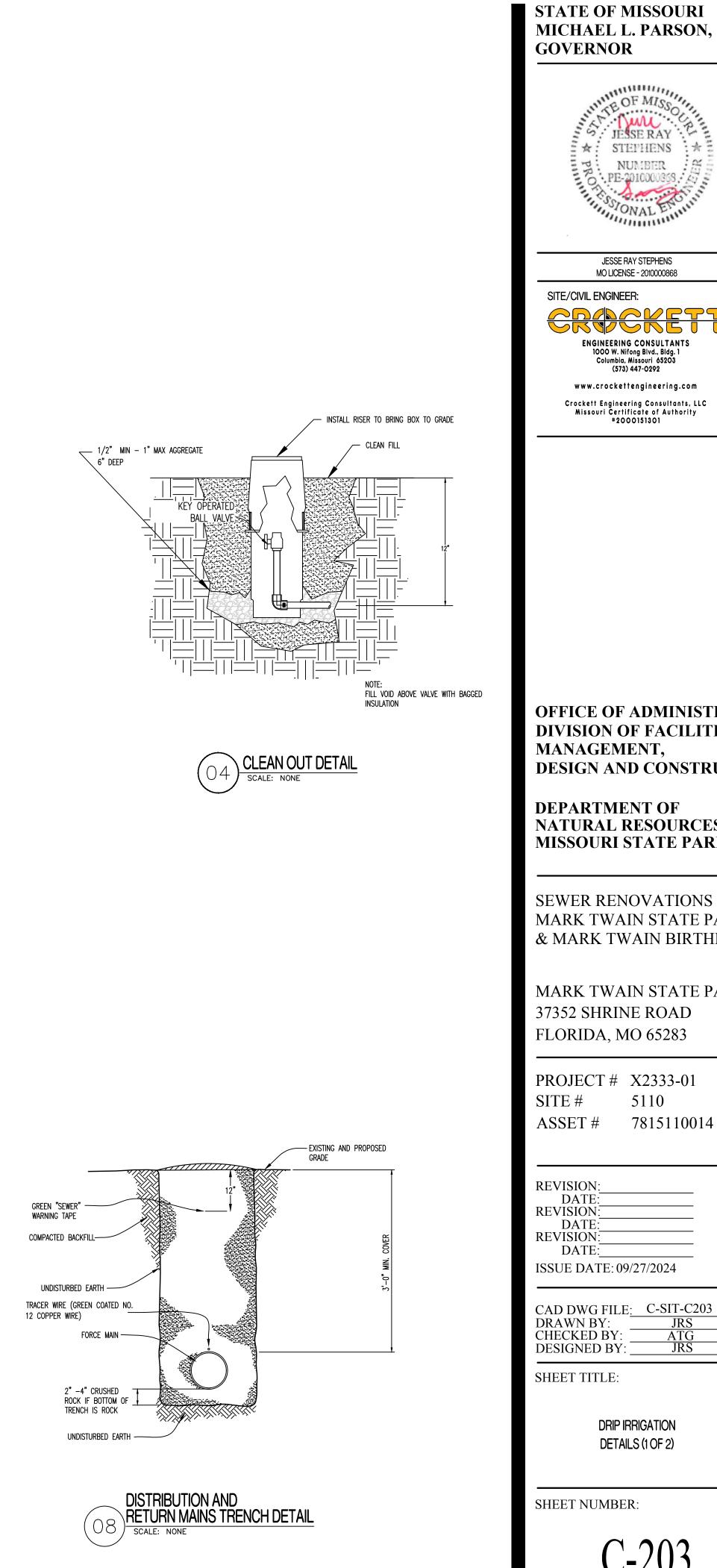
C-202









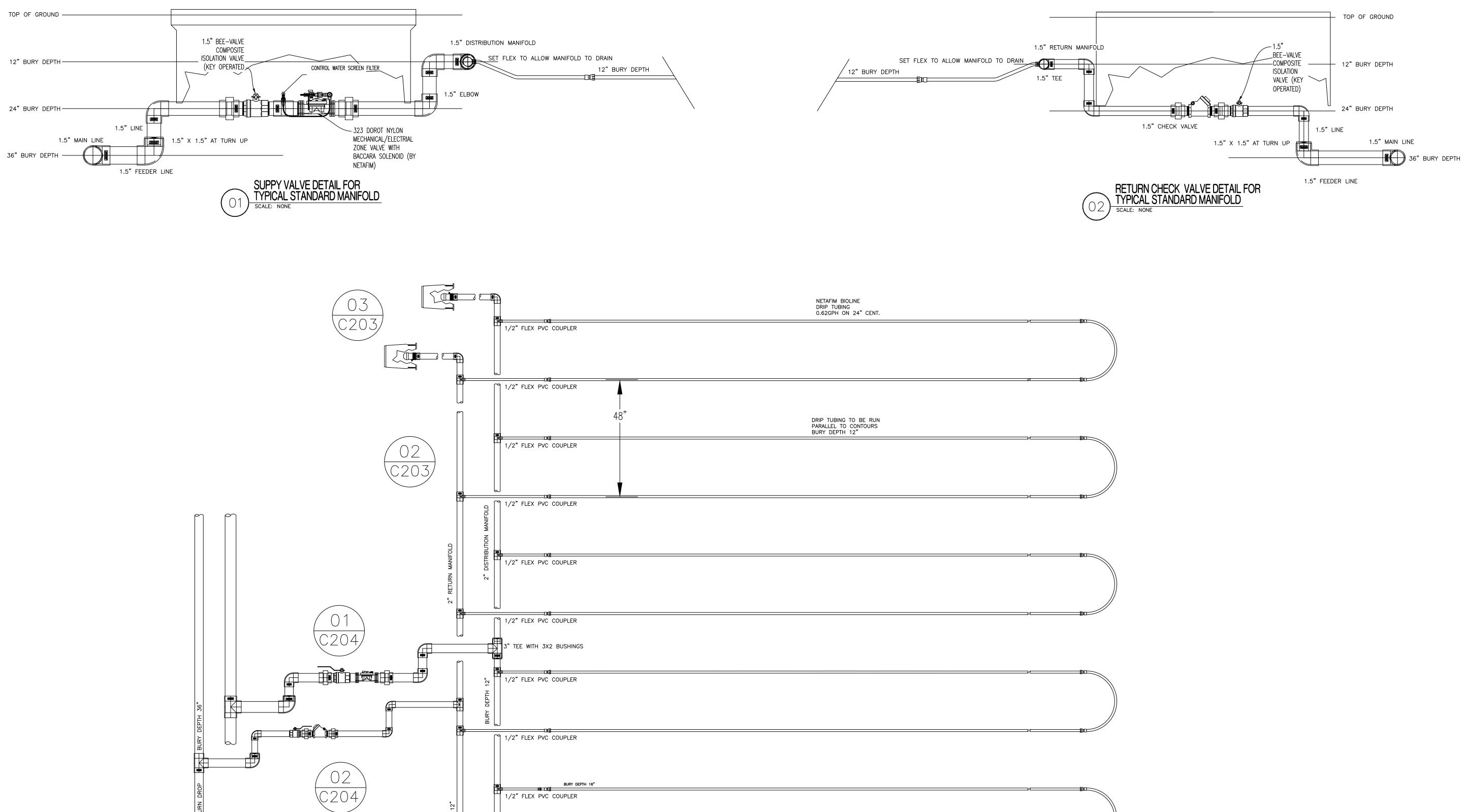


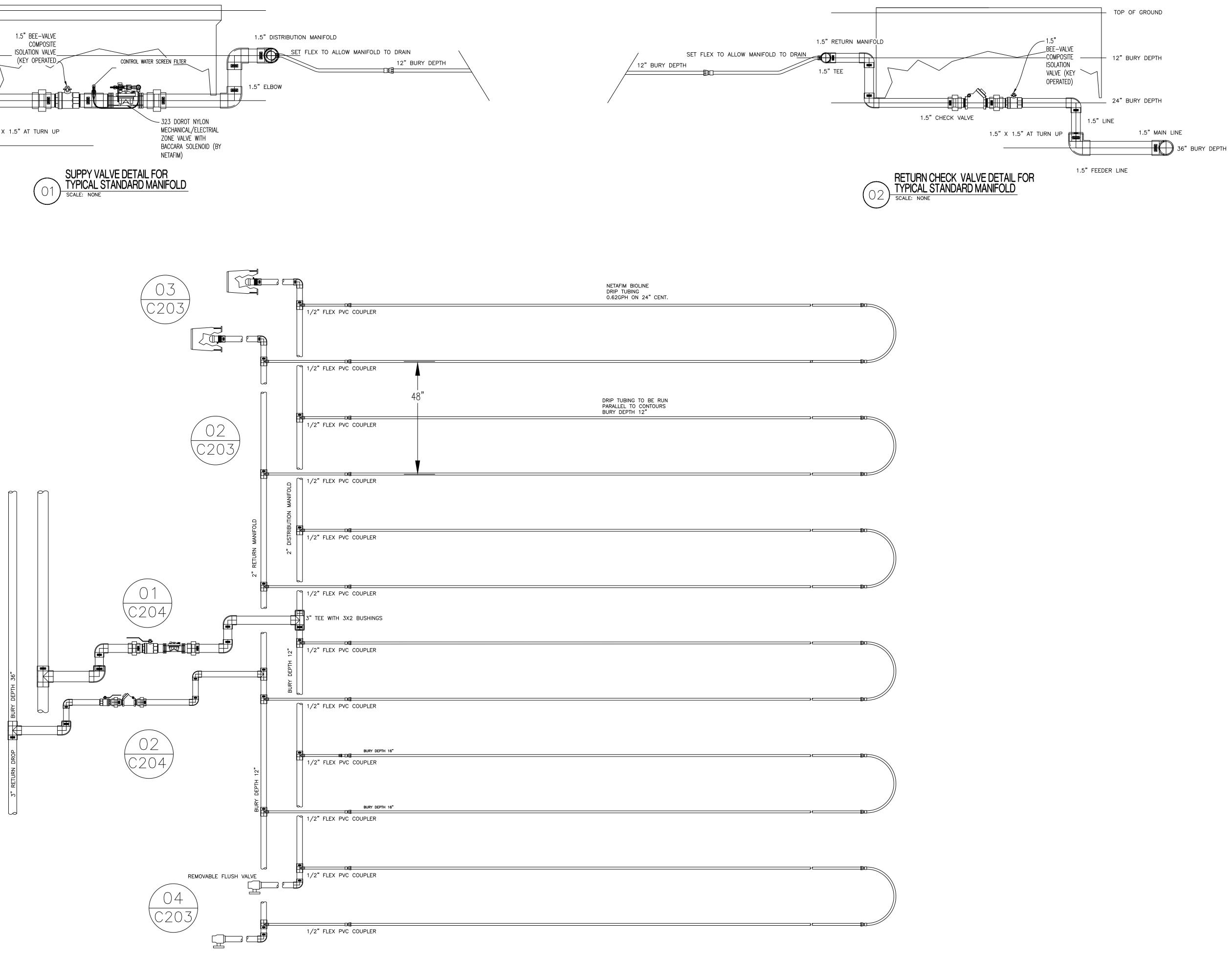
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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION DEPARTMENT OF NATURAL RESOURCES MISSOURI STATE PARKS
SEWER RENOVATIONS MARK TWAIN STATE PARK & MARK TWAIN BIRTHPLACE MARK TWAIN STATE PARK 37352 SHRINE ROAD FLORIDA, MO 65283
PROJECT #       X2333-01         SITE #       5110         ASSET #       7815110014         REVISION:
ISSUE DATE: 09/27/2024 CAD DWG FILE: C-SIT-C203 DRAWN BY: JRS CHECKED BY: ATG DESIGNED BY: JRS SHEET TITLE:

DRIP IRRIGATION DETAILS (1 OF 2)

SHEET NUMBER:







REMOVABLE FLUSH VALVE

#### SYN2436–24 (24" BY 36" BY 24" DEEP VALVE BOX)

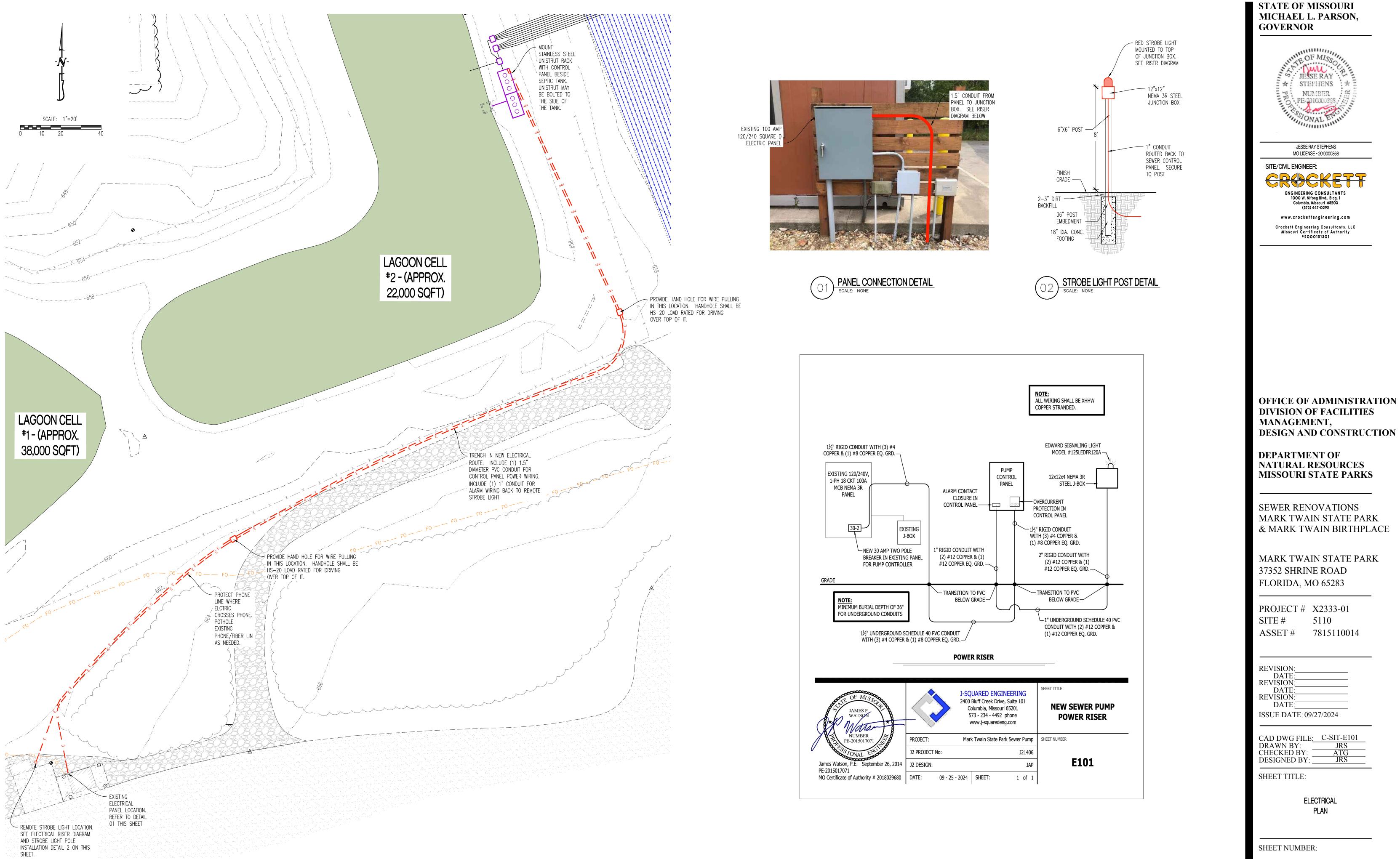


O 3 TYPICAL STANDARD MANIFOLD LOOPED



STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR
BOF MISSOL JESSE RAY STEPHENS NUMBER OPE-2010000368
JESSE RAY STEPHENS MO LICENSE - 2010000868
SITE/CIVIL ENGINEER: COUNCIL ENGINEERING CONSULTANTS NOOO W. Nifong Bivd., Bidg. 1 Columbia, Missouri 65203 (573) 447-0292 www.crockettengineering.com
Crockett Engineering Consultants, LLC Missouri Certificate of Authority #2000151301
OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION
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REVISION: DATE: DATE: ISSUE DATE: 09/27/2024 CAD DWG FILE: CAD DWG FILE: JRS CHECKED BY: JRS CHECKED BY: JRS CHECKED BY: JRS DESIGNED BY: JRS CHECKED BY: DESIGNED BY: DESIGNED BY: DESIGNED BY: DESIGNED BY: DESIGNED BY: CHECKED BY: DESIGNED BY: CHECKED BY: DESIGNED BY: CHECKED BY: DESIGNED BY: DESIG
REVISION:   DATE:   DATE:   ISSUE DATE: 09/27/2024   CAD DWG FILE:   DRIP IRRIGATION DETAILS (2 OF 2)

8 of 9 SHEETS



E-101 9 of 9 SHEETS