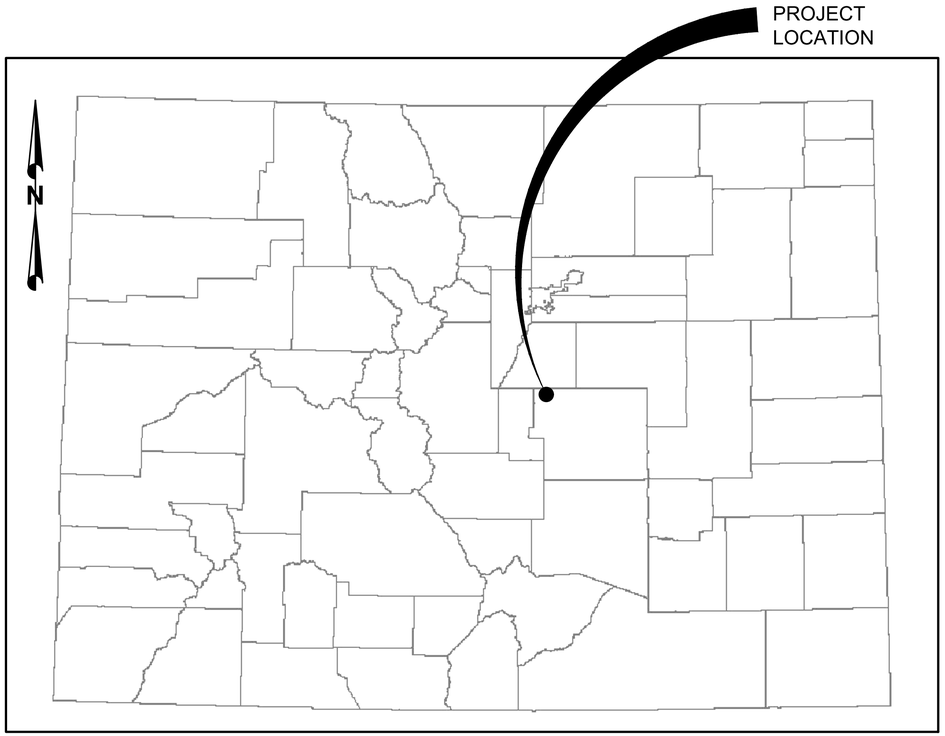
TOWN OF MONUMENT - WATERLINE AND STORAGE TANK
SITE DEVELOPMENT PLANS
LOT 6, FOREST VIEW ESTATES FILING NO. 4

TOWN OF MONUMENT
2.0 MG WATER STORAGE TANK

MONUMENT COLORADO



PROJECT LOCATION MAP
N.T.S.

SHEET INDEX

NO.	TITLE
- -	COVER SHEET
TS 100	SITE PLAN
TS 101	GRADING PLAN
TS 102	TANK PROFILE
TS 103	LANDSCAPING PLAN
E01	ELECTRICAL LEGEND
E02	ELECTRICAL ONE-LINES
E03	ELECTRICAL SITE PLAN

OWNER: TOWN OF MONUMENT

CONTACT: TOM THARNISH, PUBLIC WORKS DIRECTOR
PHONE: 719-884-8039
EMAIL: TTHARNISH@TOMGOV.ORG

APPLICANT: TOWN OF MONUMENT

PLAN PREPARER: FORSGREN ASSOCIATES, INC.
CONTACT: JAMES ADAMS, PE
PHONE: 720-214-5884
EMAIL: JADAMS@FORSGREN.COM

PROPERTY ADDRESS: 744 FOREST VIEW WAY,
MONUMENT, CO 80132

PROPERTY TAX SCHEDULE NUMBER: 7116204006

LEGAL DESCRIPTION: LOT 6 FOREST VIEW ESTATES IV.

LOT/PARCEL SIZE: 2.55 ACRES

EXISTING/PROPOSED LAND USE AND ZONING: RR-2.5

TOTAL GROSS BUILDING SQUARE FOOTAGE: TANK
SQUARE FOOTAGE = APPROX. 11,120 SF

VICINITY MAP
N.T.S.

DESIGN ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

JAMES ADAMS, PE #38375 — DATE 4/21/22

OWNER/DEVELOPER'S STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN AND ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

TOM THARNISH, PUBLIC WORKS DIRECTOR — DATE 5-4-22
TOWN OF MONUMENT
645 BEACON LITE RD, MONUMENT, CO 80132

EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

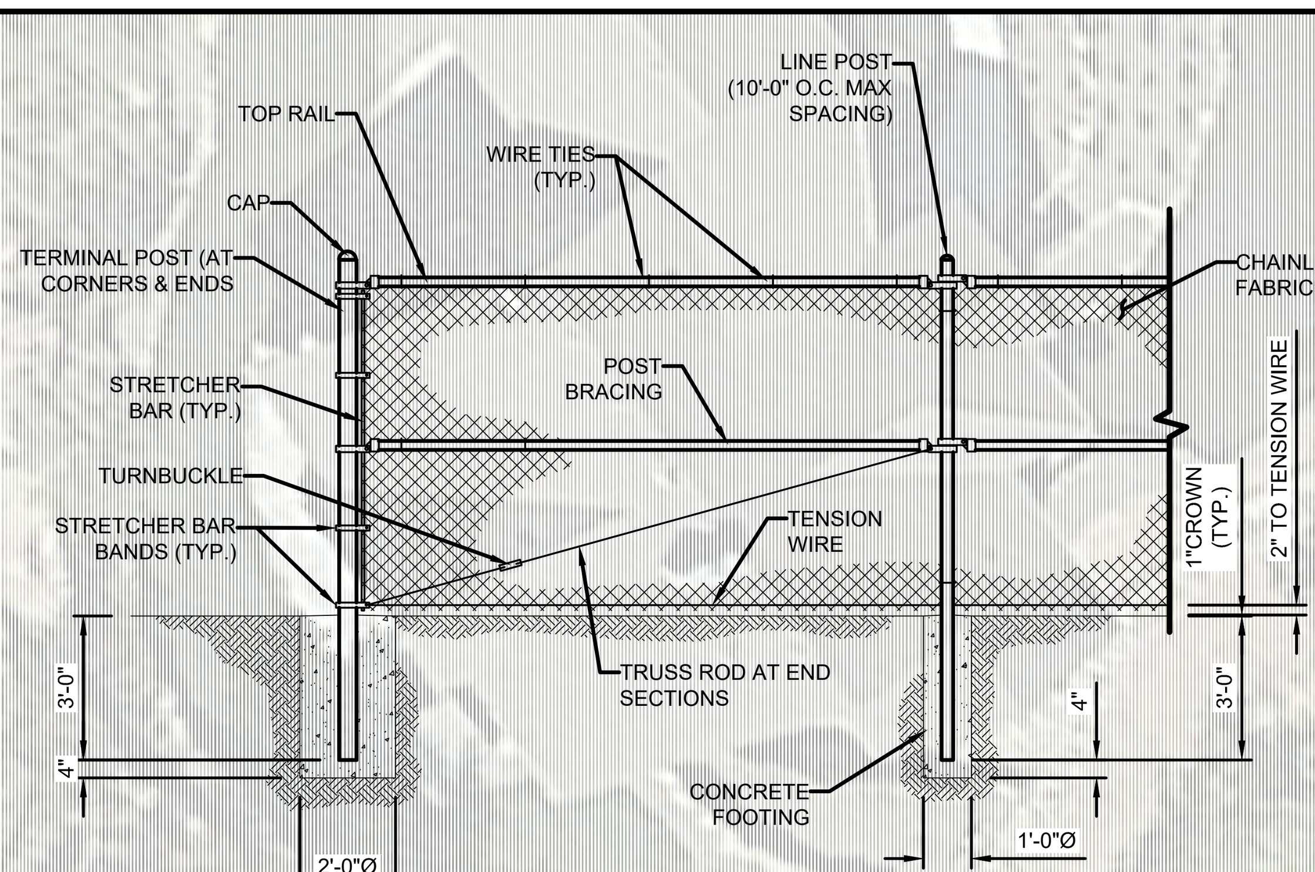
IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

JENNIFER IRVINE, P.E. — DATE
COUNTY ENGINEER / ECM ADMINISTRATOR

FA PROJECT NO.
01-18-0124

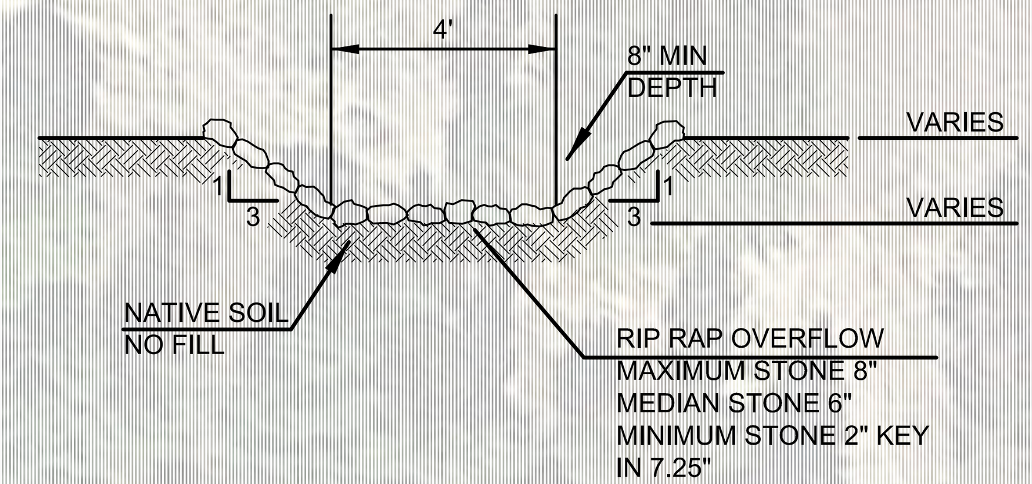
PCD FILE NO. PPR-21-30

TOWN OF MONUMENT - WATERLINE AND STORAGE TANK
SITE DEVELOPMENT PLANS
LOT 6, FOREST VIEW ESTATES FILING NO. 4

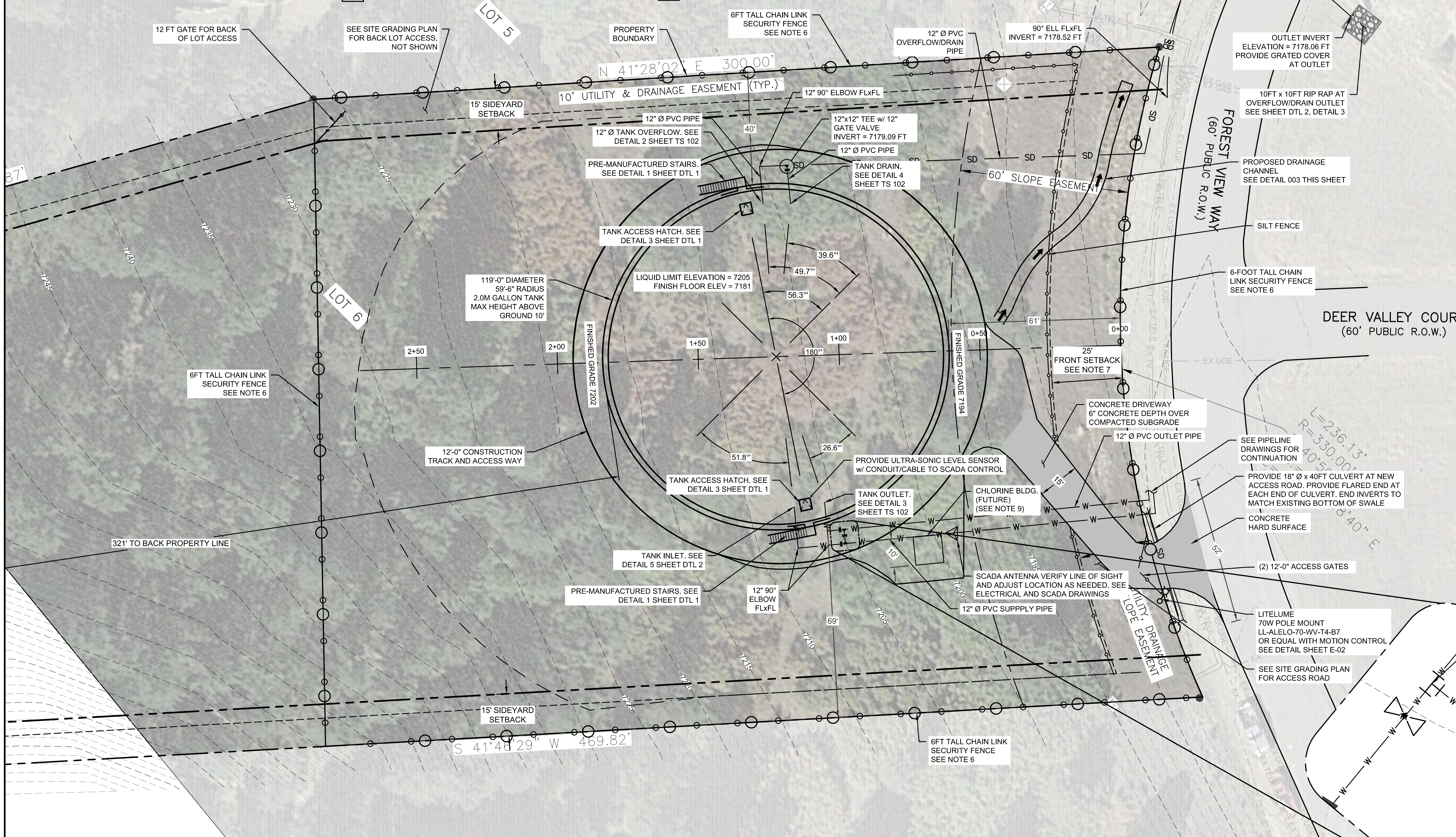


CHAIN LINK FENCE
SCALE: N.T.S. SPEC # 32 31 13 001

ALTERNATIVE FENCE OPTION
WROUGHT IRON (OR SIMILAR)
SCALE: N.T.S. 002

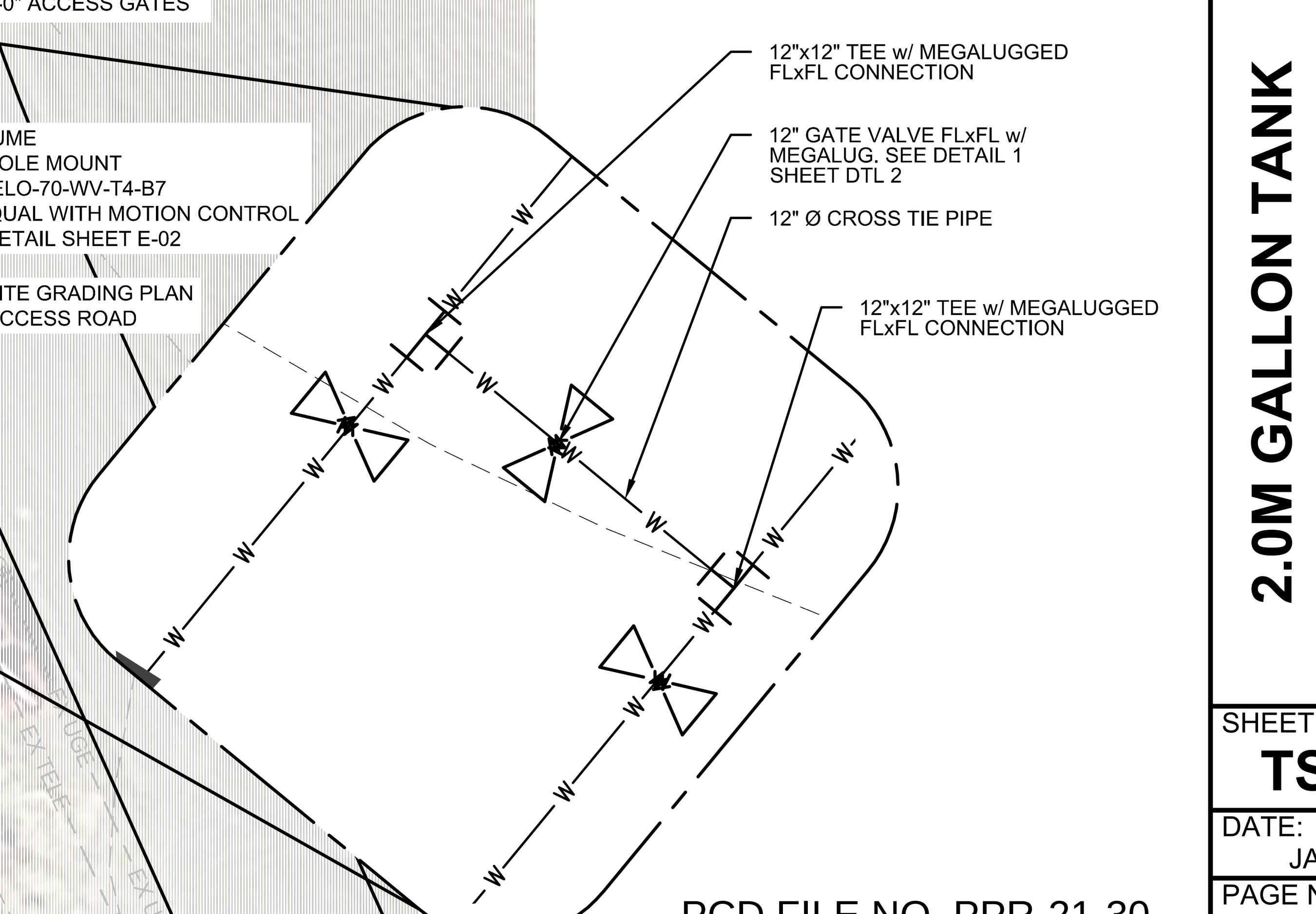


DRAINAGE CHANNEL TYPE 2
SCALE: N.T.S. SPEC # 31 22 40 003



NOTE: NO PIPELINE CONSTURCTION IS PERMITTED IN THE ROW UNITIL THE FINAL PIPELINE CONSTRUCTION PLANS HAVE BEEN APPROVED.

TANK SITE PLAN
SCALE: 1"= 20'



GENERAL SHEET NOTES:

1. PARCEL SURVEY INFO: LOT 6 FOREST VIEW ESTATES IV, COUNTY OF EL PASO, STATE OF COLORADO.
ADDRESS: 744 FOREST VIEW WAY
TSN: 7116204006

2. ELEVATIONS ARE BASED ON NGS BENCHMARK "K 294", ELEVATION 7238.31 (NAVD 88), AS STATED ON SURVEY PERFORMED BY BARRON LAND, LLC ON OCTOBER 11, 2016.

3. SITE SURVEY FILE IN CIVIL 3D FORMAT WILL BE MADE AVAILABLE TO CONTRACTOR FOR SITE STAKING/CONSTRUCTION PURPOSES AFTER PROVIDING CAD RELEASE FORM.

4. MOUNTAIN PEAKS TO PROVIDE SCADA PROGRAMMING UNDER SEPARATE CONTRACT w/ OWNER. CONTRACTOR TO PROVIDE EQUIPMENT AS PART OF THE TANK PROJECT.

5. CONTRACTOR TO PLACE SILT FENCE PRIOR TO START OF CONSTRUCTION . SILT FENCE TO BE MAINTAINED IN ACCORDANCE WITH EROSION PROTECTION BMP'S THROUGHOUT THE DURATION OF THE PROJECT.

6. 6-FOOT HIGH CHAIN LINK FENCE WITH FOREST GREEN PVC COAT. 6-FOOT HIGH POOL STYLE WROUGHT IRON FENCE AS BID ALTERNATE ALONG ROAD FRONTAGE. SEE DETAIL 002 THIS SHEET. REAR AND SIDE FENCES WILL BE 6-FOOT CHAIN LINK.

7. REAR AND SET BACKS TO BE 25'.

8. NO ADVERTISEMENT "TOWN OF MONUMENT" SIGN-AGE PERMITTED ON TANK; REQUIRED SAFETY SIGN-AGE ONLY.

9. BUILDING HAS NOT BEEN DESIGNED. ESTIMATED FOOTPRINT BUILDING IS 10'x10'.

GRAPHIC SCALE
0' 10' 20' 40' 60'
Scale: 1"=20'

GENERAL SHEET NOTES:
ALL SUBGRADE MECHANICAL CONNECTIONS ARE TO BE MEGALUGGED FLxFL CONNECTIONS

PCD FILE NO. PPR-21-30

NO.	REVISIONS	BY	DATE

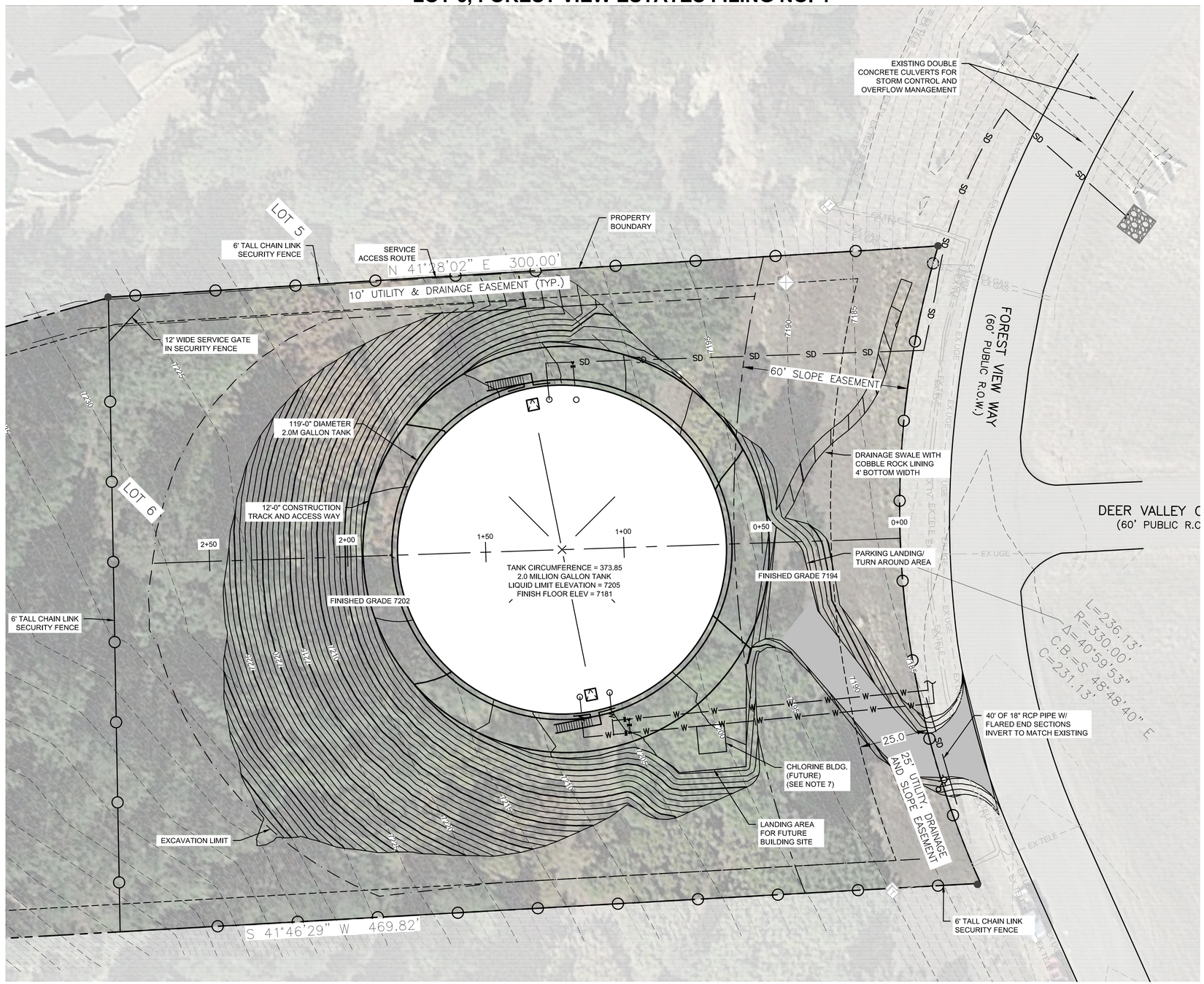
FORSGREN Associates Inc.
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720.232.6644

PROJECT NO.
DRAWN
DESIGNED
APPROVED
QA/QC

2.0M GALLON TANK
SITE PLAN

SHEET NO: TS 100
DATE: JAN, 2022

TOWN OF MONUMENT - WATERLINE AND STORAGE TANK
SITE DEVELOPMENT PLANS
LOT 6, FOREST VIEW ESTATES FILING NO. 4



TANK SITE GRADING PLAN
SCALE: 1"= 20'

GRAPHIC SCALE
0' 10' 20' 40' 60'
Scale: 1"=20'

GRADING NOTES

1. GRADING SHOWN ON PLAN REFLECTS THE EXISTING AND FINISHED GRADE FOR THE TANK SITE.
2. TEMPORARY EXCAVATIONS FOR CONSTRUCTION OF THE TANK AND ASSOCIATED UTILITIES SHALL FOLLOW RECOMMENDATION OF THE GEOTECHNICAL REPORT PREPARED BY NINYO & MOORE DATED NOVEMBER 18, 2016.
3. FINISHED GRADES SHALL NOT EXCEED A 2 HORIZONTAL TO 1 VERTICAL SLOPE UNLESS SPECIFICALLY AGREED TO IN WRITING BY THE ENGINEER FOR LIMITED LOCATIONS ON THE SITE WHERE EXPOSED ROCK MAY ALLOW A STEEPER SLOPE AND WHERE NECESSARY TO CATCH THE EXISTING SURFACE.
4. SITE RESTORATION SHALL CONSIST OF PLACEMENT/REPLACEMENT OF 4" MINUMUM DEPTH TOPSOIL OVER LOOSELY COMPACTED SUB-SURFACE MATERIAL.
5. TOPSOIL SHALL BE COVERED BY A DOUBLE NET STRAW/COCONUT BLANKET WITH BIODEGRADEABLE NETTING. BLANKET SHALL BE INSTALLED AND ANCHORED PER MANUFACTURER RECOMMENDATIONS.
6. HYDROSEED WITH APPROVED NATIVE GRASS MIX.
7. BUILDING HAS NOT BEEN DESIGNED. ESTIMATED FOOTPRINT BUILDING IS 10'X10'.

PCD FILE NO. PPR-21-30

NO.	REVISIONS	BY	DATE

FORSGREN Associates Inc.
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720.232.6644

PROJECT NO.
DRAWN
DESIGNED
APPROVED
QA/QC

2.0M GALLON TANK

SITE GRADING PLAN

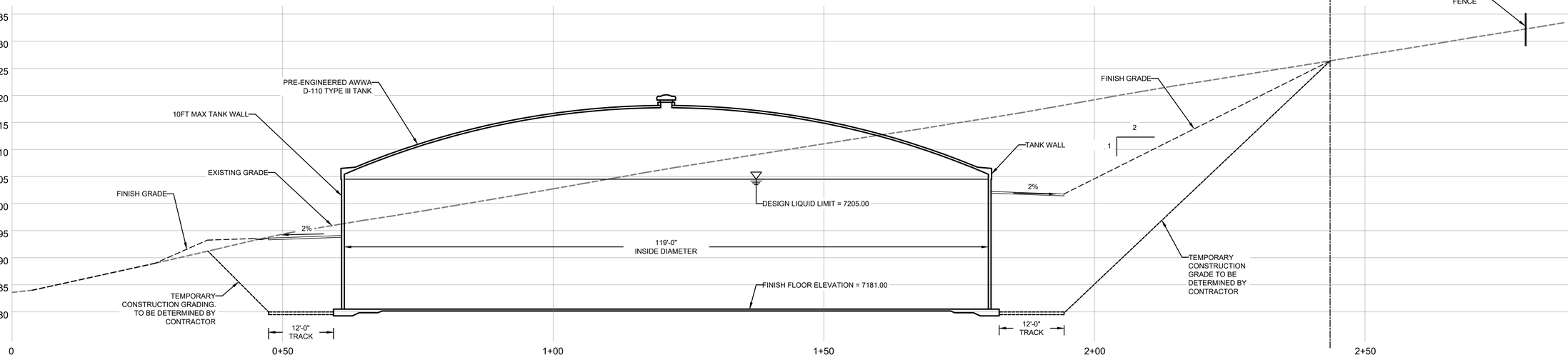
SHEET NO:
TS 101

DATE:
JAN, 2022

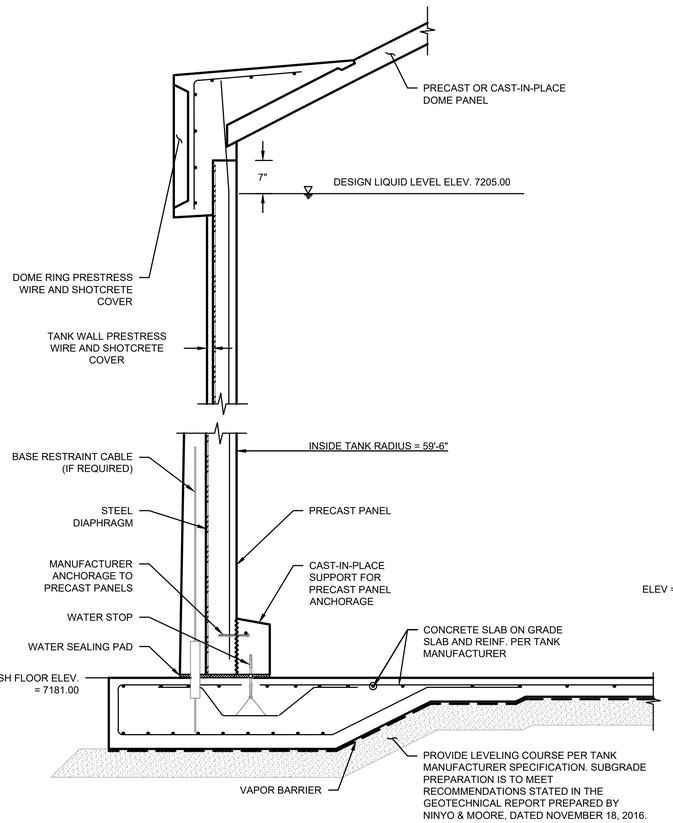
PAGE NO:
3 OF 8

P:\Clients\Monument\04-20-0153 Waterline & Storage Tank\CAD\Sheets\Civil\COUNTY SUBMITTALS\ENGINEERING DRAWINGS\TANK\TANK GRADING PLAN SITE DEVELOPMENT PLANS.dwg - ---- - 1/31/2022 9:19 AM

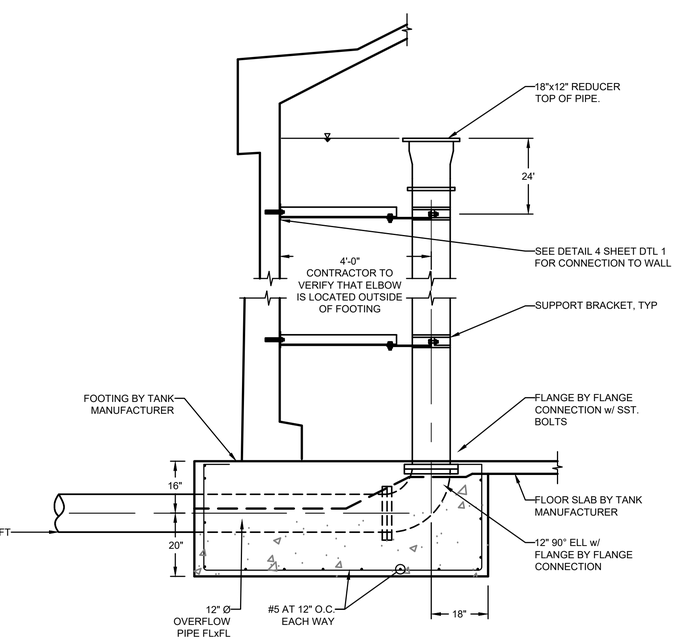
TOWN OF MONUMENT - WATERLINE AND STORAGE TANK
SITE DEVELOPMENT PLANS
LOT 6, FOREST VIEW ESTATES FILING NO. 4



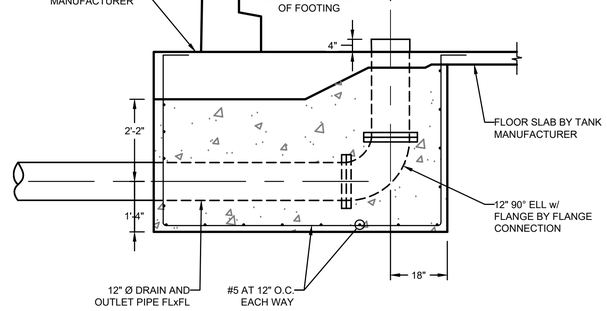
TANK PROFILE
SCALE: 1"= 10'



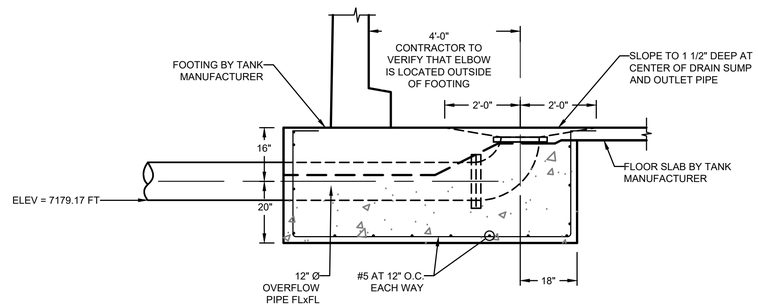
TANK WALL SECTION
SCALE: 3/4" = 1'-0"
1



TANK OVERFLOW PIPE
SCALE: 1/2" = 1'-0"
2



TANK OUTLET PIPE
SCALE: 1/2" = 1'-0"
3



TANK DRAIN PIPE
SCALE: 1/2" = 1'-0"
4

PCD FILE NO. PPR-21-30

NO.	REVISIONS	BY	DATE

FORSGREN Associates Inc.
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720.232.6644

PROJECT NO.
DRAWN
DESIGNED
APPROVED
QA/QC

2.0M GALLON TANK

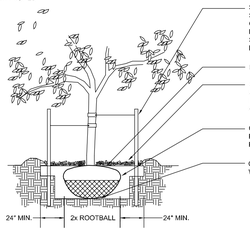
TANK PROFILE

SHEET NO:
TS 102

DATE:
JAN, 2022

PAGE NO:
4 OF 8

NOTES:
- DO NOT REMOVE OR CUT LEADER.
- PRUNE ONLY DEAD OR BROKEN BRANCHES IMMEDIATELY PRIOR TO PLANTING.
- REMOVE ANY DOUBLE LEADER, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE
- KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.
- AVOID FALL PLANTING IF POSSIBLE.
- AMENDED BACKFILL SHALL BE 80% SOIL FROM PLANTING PIT AND 20% ORGANIC MATERIAL, PREFERABLY CANADIAN PEAT MOSS.
- STAKING POST SHALL BE 1 1/2" DIA. TREATED WOOD STAKE. METAL POST WILL NOT BE APPROVED



SET TREE PLUMB, STAKE TREES WITH TWO MIN. 1 1/2" DIA, TREATED WOOD STAKES. STAKE WITH 3 EVENLY SPACED POSTS. USE NYLON STRAP WITH GROMMETS BELOW MIDPOINT OF TREE. TIGHTEN #10 GUY WIRE BY TWISTING. PROTECT BRANCHES FROM TOUCHING WIRE. ALLOW A SLIGHT SAG FOR SWAY. PROVIDE FLAGGING TAPE 6" DANGLING. SET STAKES IN MINIMUM 18" FIRM SOIL

PLANT ROOTFLARE AT FINISH GRADE IN CLAY OR SANDY SOIL.

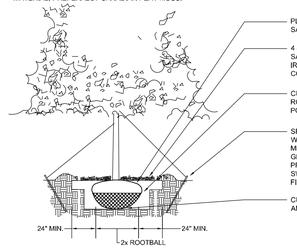
4 - 6" SPECIFIED MULCH. PROVIDE 36" PLANTING RING FOR TREES. PROVIDE SAUCER ON DOWNHILL SIDE ON SLOPES. NO PLANTING RIM FOR TREES IN IRRIGATED NATIVE TURF. DEEP WATER AT PLANTING. KEEP MULCH FROM CONTACT WITH WOODY TRUNK.

CUT AND REMOVE ALL BURLAP AND WIRE BASKETS FROM TOP 1/2 TO 2/3 OF ROOTFLARE. REMOVE ALL TREATED, GREEN BURLAP. AFTER TREE IS POSITIONED, REMOVE ALL TWINE, ROPE, PLASTIC AND RUBBER.

CULTIVATE SOIL TO DEPTH OF ROOTFLARE THOROUGHLY. BACKFILL HOLE WITH AMENDED SOIL MIX. SCARIFY SIDES OF UNDISTURBED SOIL.

1/A DECIDUOUS TREE PLANTING DETAIL N.T.S.

NOTES:
- DO NOT REMOVE OR CUT LEADER.
- PRUNE ONLY DEAD OR BROKEN BRANCHES IMMEDIATELY PRIOR TO PLANTING.
- REMOVE ANY DOUBLE LEADER, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE
- KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.
- AVOID FALL PLANTING IF POSSIBLE.
- AMENDED BACKFILL SHALL BE 70% SOIL FROM PLANTING PIT AND 30% ORGANIC MATERIAL, PREFERABLY CANADIAN PEAT MOSS.



PLANT ROOTBALL 2 - 4" ABOVE FINISH GRADE IN CLAY SOIL AND AT GRADE IN SANDY SOIL

4 - 6" SPECIFIED MULCH. PROVIDE 36" PLANTING RING FOR TREES. PROVIDE SAUCER ON DOWNHILL SIDE ON SLOPES. NO PLANTING RIM FOR TREES IN IRRIGATED NATIVE TURF. DEEP WATER AT PLANTING. KEEP MULCH FROM CONTACT WITH WOODY TRUNK.

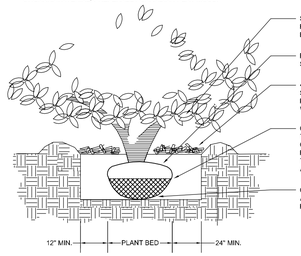
CUT AND REMOVE ALL BURLAP AND WIRE BASKETS FROM TOP 1/2 TO 2/3 OF ROOTBALL. REMOVE ALL TREATED, GREEN BURLAP. AFTER TREE IS POSITIONED, REMOVE ALL TWINE, ROPE, PLASTIC AND RUBBER.

SET TREE PLUMB, STAKE 6' TREES AND SMALLER WITH TWO POSTS SET ON WINDWARD AND LEEWARD SIDES. STAKE 6' HEIGHT AND GREATER WITH 3 METAL ANGLE IRONS, PLACED 120 DEGREES APART. USE NYLON STRAP WITH GROMMETS BELOW MIDPOINT OF TREE. TIGHTEN #10 GUY WIRE BY TWISTING. PROTECT BRANCHES FROM TOUCHING WIRE. ALLOW A SLIGHT SAG FOR SWAY. PROVIDE FLAGGING TAPE FOR VISIBILITY. SET STAKES IN MINIMUM 18" FIRM SOIL

CULTIVATE SOIL TO DEPTH OF ROOTBALL THOROUGHLY. BACKFILL HOLE WITH AMENDED SOIL MIX. SCARIFY SIDES OF UNDISTURBED SOIL.

2/B EVERGREEN TREE PLANTING DETAIL N.T.S.

NOTES:
- PRUNE ONLY DEAD OR BROKEN BRANCHES IMMEDIATELY PRIOR TO PLANTING.
- KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.
- DO NOT FERTILIZE FOR AT LEAST ONE GROWING SEASON.
- AMENDED BACKFILL SHALL BE 70% SOIL FROM PLANTING PIT AND 30% ORGANIC MATERIAL, PREFERABLY CANADIAN PEAT MOSS.



SET SHRUBS PLUMB. SHRUB SPACING AS PER THE PLANS. LAYOUT VARIES. FINISHED GRADE OF SHRUB BED TO BE 2" BELOW ADJACENT FINISH GRADE AT EDGE.

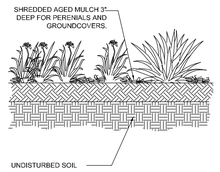
PLANT ROOTBALL 2 - 4" ABOVE FINISH GRADE IN CLAY SOIL AND AT GRADE IN SANDY SOIL

4 - 6" SPECIFIED MULCH. PROVIDE 18" PLANTING RING FOR SHRUBS. PROVIDE SAUCER ON DOWNHILL SIDE ON SLOPES. NO PLANTING RIM FOR SHRUBS IN PLANTING BED. DEEP WATER AT PLANTING. KEEP MULCH FROM CONTACT WITH WOODY BASE.

CUT AND REMOVE ALL BURLAP OR A MINIMUM TOP 2/3 OF ROOTBALL. REMOVE ALL TREATED, GREEN BURLAP AND PLASTIC CONTAINERS. FOR POT BOUND PLANTS ONLY: MAKE 4 - 5 VERTICAL CUTS IN ROOTBALL 1/2" DEEP. PLANT IMMEDIATELY. FOR ROOT BIND AT BOTTOM OF BALL: SPLIT ROOTBALL VERTICALLY ALL THE WAY THROUGH FROM BOTTOM TO HALFWAY TO TOP. SPREAD THE TWO HALVES OVER A MOUND OF SOIL IN THE PLANTING HOLE.

CULTIVATE SOIL TO DEPTH OF ROOTBALL THOROUGHLY. BACKFILL HOLE WITH AMENDED SOIL MIX. SCARIFY SIDES OF PLANTING PIT. ROOT BALL SHALL REST ON FIRM, UNDISTURBED SOIL.

3/C SHRUB PLANTING DETAIL N.T.S.



PLANT GROUND COVER AND PERENNIALS LEVEL AT GRADE.

SOIL TO BE WELL CULTIVATED TO A MINIMUM DEPTH OF 6".

KEEP PLANTS MOIST AND SHADED UNTIL PLANTED.

IN CLAY SOIL, WORK IN TOPSOIL AND ORGANIC COMPOST. SEE SPECS. FOR RATIO AND QUANTITY.

IN SAND, WORK IN TOPSOIL, ORGANIC COMPOST AND AGED MANURE. SEE SPECS FOR RATIO AND QUANTITY.

4/D PERENNIAL/GROUND COVER PLANTING DETAIL N.T.S.

HATCH LEGEND

	TURF (KENTUCKY BLUE GRASS (THERMAL BLUE BLEND)	0 sf
	4-8" COBBLE	0 sf
	2-4" COBBLE	0 sf
	ORGANIC MULCH	0 sf
	NATIVE SEED MIX PAWNEE BUTTES SEED (NATIVE PRAIRIE MIX) 29% Blue Grama 25% Buffalograss 20% Western Wheatgrass 20% Sideoats Grama 5% Green Needlegrass 1% Sand Dropseed	16,199 sf

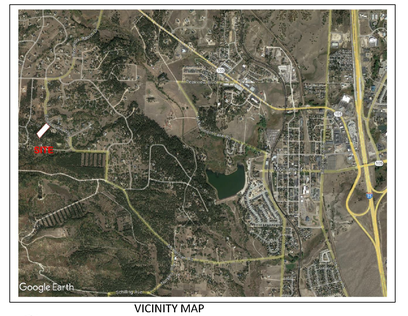
Application Rate: Native Grass Mix-15 lbs/ac
Application Method: Drill Seed with hydromulch and tackifier

KEYED NOTES: *(not all items labeled. items labeled considered typ.)*

1. TYPICAL DECIDOUS TREE PLANTING - *see detail:a/2-2*
2. TYPICAL EVERGREEN TREE PLANTING - *see detail:b/2-2*
3. TYPICAL SHRUB PLANTING - *see detail:c/2-2*
4. TYPICAL GROUNDCOVER/PERENNIAL PLANTING - *see detail:d/2-2*
5. LANDSCAPE BOULDER - *see detail:g/2-2*
6. STEEL EDGE - *see detail:f/2-2*
7. 2-4" BLUE GREY GRAVEL MULCH - *see detail:a/2-2*
8. SCREEN WALL - *see architectural plans*
9. 4-8" COBBLE - *see detail:a/2-2*
10. ORGANIC MULCH
11. TURF LAWN AREA (THERMAL BLUE BLEND) - *see landscape notes for required amendments*

LANDSCAPE PLANT SCHEDULE

SYMBOL	QUANTITY	SCIENTIFIC NAME	COMMON NAME	MATURE SIZE	PLANTING SIZE	NOTES
DECIDUOUS TREES						
HLO	3	*Gleditsia triacanthos*	*Skyline Honeylocust*	*40' x 30'*	*2" Caliper*	*Ball and Burlap*
GOA	12	*Quercus gambelii*	*Gambel Oak*	*15' x 12'*	*15 Gallon*	*Container*
EVERGREEN TREES						
PON	12	*Pinus ponderosa*	*Ponderosa Pine*	*40' x 25'*	*8' Height*	*Ball and Burlap*
PIN	16	*Pinus edulis*	*Pinon Pine*	*25' x 15'*	*6' Height*	*Ball and Burlap*
DECIDUOUS SHRUBS						
RBO	3	*Rubus deliciosus*	*Boulder Raspberry*	*4' x 5'*	*5 Gallon*	*Container*
ROK	11	*Holodiscus dumosus*	*Rock Spirea*	*4' x 4'*	*5 Gallon*	*Container*
APP	3	*Fallugia paradoxa*	*Apache Plume*	*3' x 3'*	*5 Gallon*	*Container*
SSK	8	*Amelanchier alnifolia*	*Saskatoon Serviceberry*	*10' x 8'*	*5 Gallon*	*Container*
EVERGREEN SHRUBS						
RMJ	6	*Juniperus scopulorum*	*Rocky Mountain Juniper"Wichita"*	*12' x 4'*	*15 Gallon*	*Container*
BHJ	6	*Juniperus horizontalis 'Wiltonii'*	*Blue Harbor Juniper*	*1' x 5'*	*1 Gallon*	*Container*
JHC	12	*Juniperus Chinensis 'Armstrong'*	*Armstrong Juniper*	*4' x 4'*	*5 Gallon*	*Container*
ORNAMENTAL GRASSES						
LBG	11	*Schizachyrium scoparium*	*Little Bluestem*	*2' x 2'*	*1 Gallon*	*Container*
AVG	3	*Helictotrichon sempervirens*	*Blue Oat Grass*	*3' x 3'*	*1 Gallon*	*Container*



VICINITY MAP

GRAPHIC SCALE
0' 10' 20' 40' 60'
Scale: 1"=20'

GENERAL NOTES:
1. Contractor shall design and install a temporary irrigation system in accordance with section 32 80 00.
2. A temporary irrigation system shall be installed to establish all newly planted vegetation.
3. The irrigation system shall conform to all irrigation standards and shall provide adequate supplemental water for all of the new planting material to flourish and grow without supplemental water after a growing season.

PCD FILE NO. PPR-21-30

Applicant: Town of Monument

Plan Preparer: Forsgren Associates, Inc.
Contact: James Adams, PE
Phone: 720-214-5884
Email: jadams@forsgren.com

OWNER INFO
company name: Town of Monument
Contact: Tom Tharnish, Public Works Director
address: 645 Beacon Lite Road
city/state: Monument, CO 80132
phone no: 719-884-8039

YOW ARCHITECTS PC
ARCHITECTURE & PLANNING
115 S. Weber Colorado Springs, Colorado 475-8133

Structural: ---
Electrical: ---
Mechanical: ---
Plumbing: ---

Town of Monument
Waterline & Storage Tank
744 Forest View Way
Monument, Colorado 80923

Job No. 20.028
Directory Landscape
File LANDSCAPING PLAN 12-20-2021
Drawn By DBN
Date 8.23.2021
Revised

DRAWING NO.
1 of 1
FINAL LANDSCAPE PLAN

ONE LINE DIAGRAM LEGEND

1500KVA
2.4KV-480Y/277
3Ø, 60 HZ
— TRANSFORMER WITH PRIMARY AND SECONDARY VOLTAGE, AND KVA RATING AS NOTED.

20 — 22: 3#8,#10G,2" — CIRCUIT NO. 22 WITH #8 INSULATED CONDUCTORS, 1#10 BARE GROUND WIRE ALL IN 2" CONDUIT TO 20 HP MOTOR.

AUXILIARY ITEMS MAY NOT BE SHOWN COMPLETELY
15
— ONE-LINE SHOWING POWER AND CONTROL TO A PACKAGE UNIT, AS FOR EXAMPLE A STEAM GENERATOR OR AN AIR HANDLING UNIT, SHALL IMPLY THAT ANY AND ALL ASSOCIATED EQUIPMENT SHALL ALSO BE INSTALLED AND WIRED AS REQUIRED BY THE EQUIPMENT FURNISHED.

— INDICATES THAT ALL OR PART OF CIRCUIT MAY BE ROUTED IN DUCT BANK OR UNDERGROUND. CONDUIT SIZE SHOWN ON ONE-LINE IS ABOVE GROUND AND/OR INSIDE OF STRUCTURE. SEE DUCT BANK SCHEDULE AND SECTIONS FOR CONDUIT SIZE OF UNDERGROUND PORTION OF CIRCUIT.

— HIGH VOLTAGE DRAWOUT AIR OR VACUUM CIRCUIT BREAKER.

3P-20 — LOW VOLTAGE AIR CIRCUIT BREAKER, 3 POLE, 20 AMPERE.

S4 — SIZE 4 COMBINATION MAGNETIC MOTOR STARTER.

S4 — SIZE 4 REDUCED VOLTAGE SOFT STARTER

— LOW VOLTAGE DRAWOUT AIR CIRCUIT BREAKER.

— HIGH VOLTAGE DRAWOUT CONTACTOR.

— FUSE AND DISCONNECT SWITCH.

S2 — SIZE 2 COMBINATION MAGNETIC MOTOR STARTER, REVERSING OR 2 SPEED.

— POTENTIAL TRANSFORMER.

— CURRENT TRANSFORMER.

CONDUIT & WIRING INSTALLATION LEGEND

— CONDUIT EXPOSED.

— CONDUIT CONCEALED.

— CONDUIT TURNING UP, CONDUIT TURNING DOWN.

— CONDUIT PLUGGED FLUSH, CONDUIT CAPPED.

L2-5 — TYPICAL FOR HOME RUN TO BE ROUTED TO LIGHTING PANEL L2 AND CONNECTED TO CIRCUIT #5 (MINIMUM NO. 12 AWG CONDUCTORS & ¾" CONDUIT.)

A — LIGHTING FIXTURE. REFER TO NUMBER OR LETTER IN FIXTURE SCHEDULE.

11 — FLUORESCENT FIXTURE. REFER TO NUMBER OR LETTER IN FIXTURE SCHEDULE.

LP1-3 — RECEPTACLE POWERED FROM LIGHTING PANEL LP1, CIRCUIT 3.

A LP2-2 — LIGHTING FIXTURE POWERED FROM LIGHTING PANEL LP2, CIRCUIT 2 (NON-SWITCHED.)

LPA-4
11 — LIGHTING FIXTURE POWERED FROM LIGHTING PANEL LPA, CIRCUIT 4

A
11 — LIGHTING FIXTURE POWERED VIA SWITCH A.

E E — UNDERGROUND CONCRETE ENCASED ELECTRICAL DUCT BANK.

— UNDERGROUND CONCRETE ENCASED ELECTRICAL BANK ROUTED BENEATH SLAB-ON-GRADE.

EE EE — DIRECT BURIED CONDUIT.

— GROUND CONDUCTOR.

SCHEMATIC SYMBOLS

- WIRE CONNECTION POINT
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- STARTER, CONTACTOR OR RELAY COIL
- NORMALLY OPEN PUSH BUTTON
- NORMALLY CLOSED PUSH BUTTON
- MAINTAINED PUSH BUTTON
- NORMALLY CLOSED GEARED LIMIT SWITCH
- NORMALLY OPEN GEARED LIMIT SWITCH
- INDICATING LIGHT
- FUSE
- CONTROL POWER TRANSFORMER
- SWITCH
- MS MANUAL STARTER
- OL OVERLOAD
- FLOAT SWITCH (CLOSING ON RISING LEVEL)
- FLOAT SWITCH (OPENING ON RISING LEVEL)
- PRESSURE SWITCH (CLOSING ON RISING PRESSURE)
- PRESSURE SWITCH (OPENING ON RISING PRESSURE)
- VACUUM SWITCH (CLOSING ON INCREASING VACUUM)
- VACUUM SWITCH (OPENING ON INCREASING VACUUM)
- TEMPERATURE SWITCH (CLOSING ON RISING TEMPERATURE)
- TEMPERATURE SWITCH (OPENING ON RISING TEMPERATURE)
- FLOW ACTUATED SWITCH (CLOSING ON INCREASE IN FLOW)
- FLOW ACTUATED SWITCH (OPENING ON INCREASE IN FLOW)
- ON TIME DELAY SWITCH (NORMALLY OPEN WITH TIME DELAY CLOSING AFTER COIL IS ENERGIZED)
- ON TIME DELAY SWITCH (NORMALLY CLOSED WITH TIME DELAY OPENING AFTER COIL IS ENERGIZED)
- OFF TIME DELAY SWITCH (NORMALLY OPEN WITH TIME DELAY OPENING AFTER COIL IS DE-ENERGIZED)
- OFF TIME DELAY SWITCH (NORMALLY CLOSED WITH TIME DELAY CLOSING AFTER COIL IS DE-ENERGIZED)
- TORQUE SWITCH (NORMALLY OPEN)
- TORQUE SWITCH (NORMALLY CLOSED)
- LIMIT SWITCH (NORMALLY OPEN)
- LIMIT SWITCH (NORMALLY OPEN, HELD CLOSED)
- LIMIT SWITCH (NORMALLY CLOSED)
- LIMIT SWITCH (NORMALLY CLOSED, HELD OPEN)
- DIFFERENTIAL PRESSURE SWITCH (NORMALLY OPEN, CLOSING ON INCREASING DIFF.)
- DIFFERENTIAL PRESSURE SWITCH (NORMALLY CLOSED, OPENING ON INCREASING DIFF.)
- SUPX 24 VDC SURGE PROTECTION

SWITCH & OUTLET SYMBOLS

- S^{A} SINGLE POLE SWITCH, A=SWITCH DESIGNATION
- S_2^{A} TWO POLE SWITCH, A=SWITCH DESIGNATION
- S_3^{A} THREE-WAY SWITCH, A=SWITCH DESIGNATION
- S_4^{A} FOUR-WAY SWITCH, A=SWITCH DESIGNATION
- S_{WP}^{A} WEATHERPROOF SWITCH, A=SWITCH DESIGNATION
- S_{KO}^{A} KEY OPERATED SWITCH, A=SWITCH DESIGNATION
- S_{XP}^{A} EXPLOSION PROOF SWITCH, A=SWITCH DESIGNATION
- SO^{A} OCCUPANCY SENSOR SWITCH, A=SWITCH DESIGNATION
- DUPLEX RECEPTACLE 120 VOLT
- 240V, 1 PHASE RECEPTACLE, TYPICAL AMPERE RATING NOTED
- 480V, 3 PHASE WELDING RECEPTACLE, TYPICAL AMPERE RATING NOTED

MISCELLANEOUS SYMBOLS

- E ETHERNET PORT
- T THERMOSTAT
- J JUNCTION BOX
- DISCONNECT SWITCH
- COMBINATION STARTER
- POWER PANEL
- LIGHTING PANEL
- MISCELLANEOUS PANEL

ABBREVIATIONS

A	AMBER, AMPERE, ALARM
AC	ALTERNATING CURRENT
AFD	ADJUSTABLE FREQUENCY DRIVE
AFF	ABOVE FINISHED FLOOR
AM	AMMETER
ATO	AUTOMATIC THROWOVER
AWG	AMERICAN WIRE GAUGE
C	CLOSE, COUNTER, CONTACTOR
CAP	CAPACITOR
CB	CIRCUIT BREAKER
CD	CONTROL DAMPER
CKT	CIRCUIT
CL2	CHLORINE
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CS	CONTROL STATION
CT	CYCLE TIMER, CURRENT TRANSFORMER
CTM	CYCLE TIMER MOTOR
2/C	2 CONDUCTOR
4"C	4" CONDUIT
DC	DIRECT CURRENT
DM	DAMPER MOTOR, DEMAND METER
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DPS	DIFFERENTIAL PRESSURE SWITCH
DS	DISCONNECT SWITCH
E	ELECTRIC OPERATOR FOR CONTROL DAMPER OR VALVE
EMH	ELECTRICAL MANHOLE
ETM	ELAPSED TIME METER
EX	EXISTING
F	FORWARD
FS	FLOW SWITCH
G	GREEN, GROUND
GFI	GROUND FAULT INTERRUPTER
GLS	GEARED LIMIT SWITCH
#8G	#8 GROUND WIRE
H	HIGH, HUMIDISTAT
HH	HANDHOLE
HMT	HIGH MOTOR TEMPERATURE
HOA	HAND-OFF-AUTO
HOR	HAND-OFF-REMOTE
HP	HORSEPOWER
HWCO	HIGH WATER CUTOFF
HZ	HERTZ (CYCLE)
I/O	INPUT/OUTPUT
J	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KVAR	KILOVAR
KW	KILOWATT
KWH	KILOWATT HOUR
L	LOW, LEVEL
LA	LIGHTNING ARRESTOR
LAN	LOCAL AREA NETWORK
LP	LIGHTING PANEL
LS	LIMIT SWITCH, LEVEL SWITCH
LWCO	LOW WATER CUTOFF
M	MAGNETIC MOTOR STARTER
MA	MILLIAMPERE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MIL
MD	MOISTURE DETECTOR
MH	MANHOLE, MOUNTING HEIGHT
MOV	MOTOR OPERATED VALVE
MS	MANUAL MOTOR STARTER
MSH	MOTOR SPACE HEATER
N	NEUTRAL
NC	NORMALLY CLOSED
NO	NORMALLY OPEN, NUMBER OPEN
O	OVERLOAD
OL	PUSH BUTTON, PULL BOX
PB	POWER FACTOR METER
PF	PHASE (CHEMICAL TERM)
PH	PROGRAMMABLE LOGIC CONTROLLER
PLC	POWER PANEL
PP	PRESSURE SWITCH
PS	POTENTIAL TRANSFORMER, PROGRAM TIMER
PT	2 POLE
2P	RED, RAISE, RELAY, REVERSE
R	RECEPTACLE
RECP	RIGID GALVANIZED STEEL
RGS	RESISTANCE TYPE TEMP DETECTOR
RTD	REMOTE TERMINAL UNIT
RTU	REDUCED VOLTAGE SOLID STATE STARTER
RVSS	SIZE 2 STARTER
S2	SUPERVISORY CONTROL AND DATA ACQUISITION
SCADA	SINGLE POLE
SP	SINGLE POLE DOUBLE THROW
SPDT	SINGLE POLE SINGLE THROW
SPST	SELECTOR SWITCH
SS	SOLENOID VALVE
SV	SWITCHBOARD
SWB	SWITCHGEAR
SWGR	THERMOSTAT, TIMER, TOTALIZER
T	TACHOMETER
TACH	TERMINAL BLOCK
TB	TIME DELAY RELAY
TD	TEMPERATURE
TEMP	TORQUE
TQ	TEMPERATURE SWITCH
TS	UNDERGROUND
UG	UNINTERRUPTIBLE POWER SUPPLY
UPS	VOLTS
V	VOLT AMPERE
VA	VALVE LIMIT SWITCH
VLS	VOLTMETER
VM	WATTHOUR METER
W	WATT METER
WH	WEATHERPROOF
WM	TRANSFORMER
WP	EXPLOSION PROOF
XFMR	YELLOW
XP	AUXILIARY RELAY
Y	POSITION SWITCH
Z	
ZS	

AREA DESIGNATIONS

THE SPECIAL AREA DESIGNATION BOXES, AS DEFINED BELOW, ARE LOCATED ON THE PLAN DRAWINGS TO DEFINE ELECTRICAL INSTALLATION REQUIREMENTS. DESIGNATION BOXES ARE LOCATED WITHIN ROOM OR BELOW ROOM NUMBER. ALL INDOOR AREAS NOT INDICATED OTHERWISE ARE AREA TYPE 1 AND MINIMUM NEMA TYPE 1 ENCLOSURES.

AREA TYPE 1 — INDOOR AND DRY AREA. REQUIRES MINIMUM NEMA TYP 1 ENCLOSURES FOR ALL EQUIPMENT AND GASKETED FITINGS IN CONDUIT SYSTEMS.

AREA TYPE 1A — CORROSIVE CHEMICAL FEED AND STORAGE ROOMS. CONDUIT SYSTEM SHALL BE EXPOSED PVC COATED CONDUIT WITH FITTINGS, AND ACCESSORIES.

AREA TYPE 4 — INDOOR WET LOCATIONS SUCH AS VAULTS, HOSEDOWN AREAS, BASEMENTS, ETC. MINIMUM NEMA TYPE 4 ENCLOSURE FOR EQUIPMENT AND GASKETED FITTINGS IN A CONDUIT SYSTEM.

AREA TYPE 7A — CLASS 1, DIVISION 1 AREA AS DEFINED BY NEC. ALL EQUIPMENT AND CONDUIT SYSTEMS SHALL BE RATED FOR USE IN THIS AREA.

AREA TYPE 7B — CLASS 1, DIVISION 2, GROUP C AND D (METHANE, GASOLINE) AS DEFINED BY NEC. EQUIPMENT AND CONDUIT SYSTEMS SHALL BE RATED FOR USE IN THIS AREA.

AREA TYPE 12 — INDOOR, DRY, DIRTY AREA. REQUIRES MINIMUM NEMA TYPE 12 GASKETED ENCLOSURES FOR ALL EQUIPMENT AND GASKETED FITTINGS IN CONDUIT SYSTEMS.

AREA TYPE 4X — OUTDOOR AND INDOOR WET LOCATIONS SUBJECT TO CORROSION. CONDUIT SYSTEM SHOULD BE PVC COATED RIGID GALVANIZED STEEL WITH PVC COATED FITTINGS, BOXES, AND STAINLESS STEEL HARDWARE.

GENERAL REQUIREMENTS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING ALL CONDUITS NOT SHOWN ON THE PLANS. THIS SHALL INCLUDE ALL CONDUITS SHOWN ON THE ONE-LINES AND HOME-RUNS SHOWN ON THE PLAN DRAWINGS. CONDUITS SHALL BE ROUTED AS DEFINED IN THE SPECIFICATIONS.
2. SPARE WIRES SHALL BE TAPED AND COILED.
3. IF EQUIPMENT SUPPLIED BY MANUFACTURER HAS A LARGER LOAD THAN VALUE SHOWN, THE CABLE CONDUIT AND ELECTRICAL EQUIPMENT SHALL BE ENLARGED, AS REQUIRED, TO ACCOMODATE THE HIGHER VALUE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING PROPERLY SIZED STARTER OVERLOADS FOR EQUIPMENT FURNISHED.
5. LIGHTING AND RECEPTACLE CIRCUITS DESIGNATED ON THE FLOOR PLANS ARE NOT SHOWN ON THE ONE-LINES. CONDUCTORS FOR LIGHTING, RECEPTACLES, AND MISCELLANEOUS 120VAC CIRCUITS SHALL BE MINIMUM NO. 12 AWG. CONDUIT FOR LIGHTING, RECEPTACLES, AND MISCELLANEOUS 120VAC CIRCUITS SHALL BE MINIMUM ¾".
6. IN AREAS WHERE THERE ARE OVERHEAD BRIDGE CRANES, HOISTS, ETC., NO CONDUITS SHALL BE RUN OVERHEAD THAT WILL INTERFERE WITH THE OPERATION OF THE EQUIPMENT.

GENERAL NOTES

1. SOLID LINES —— INDICATE NEW WORK OR EQUIPMENT.
2. DOTTED LINES . . . INDICATE EXISTING WORK OR EQUIPMENT.
3. DASHED LINES — INDICATE FUTURE WORK OR EQUIPMENT.
4. THIS IS A GENERAL LEGEND SHEET. SOME SYMBOLS AND ABBREVIATIONS MAY NOT BE UTILIZED ON THIS SPECIFIC PROJECT.
5. INFORMATION RELATED TO CIRCUIT IDENTIFICATION, WIRE & CONDUIT SIZES, AND ROUTING, IS ON THE FOLLOWING DRAWING TYPES.
   A. ONE-LINE DIAGRAMS SHOW CIRCUIT IDENTIFICATION, WIRE QUANTITY AND SIZES, AND CONDUIT SIZE WITHIN STRUCTURES. ONE-LINE DIAGRAMS ALSO INDICATE ORIGIN AND DESTINATION OF CIRCUITS, AND IDENTIFY CIRCUITS ROUTED UNDERGROUND.
   B. FOR CIRCUITS WITHOUT UNDERGROUND PORTIONS, BUILDING FLOOR PLANS SHOW LOCATION OF EQUIPMENT FOR DETERMINING CIRCUIT LENGTH WITHIN THE STRUCTURE. FOR CIRCUITS WITH UNDERGROUND PORTIONS, ANTICIPATED PENETRATION OF UNDERGROUND CONDUITS ARE SHOWN ON STRUCTURE PLANS FOR DETERMINING THE LENGTH OF IN-STRUCTURE PORTIONS OF CIRCUITS. BUILDING FLOOR PLANS MAY ALSO SHOW HOME RUNS FOR LIGHTING, RECEPTACLE, AND OTHER MISCELLANEOUS EQUIPMENT CIRCUITS.
   C. SITE PLANS INDICATE THE GENERAL ROUTING OF UNDERGROUND CONDUITS AND DUCT BANKS. CIRCUITS ROUTED IN UNDERGROUND CONDUITS OR DUCT BANKS ARE INDICATED IN DUCT BANK SECTIONS REFERENCED ON THE SITE PLAN.
   D. DUCT BANK SECTIONS AND SCHEDULES IDENTIFY CONDUIT SIZE, CONDUIT MATERIAL, ARRANGEMENT OF THE UNDERGROUND CONDUITS, AND CIRCUITS ROUTED IN EACH UNDERGROUND CONDUIT.
6. CLOUDED MARKINGS INDICATE WORK IN EXISTING AREAS THAT IS NEW OR NEW WORK ON AN EXISTING PIECE OF EQUIPMENT.

PCD FILE NO. PPR-21-30

NO.	REVISIONS	BY	DATE

FORSGREN Associates Inc.
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720.232.6644

ISSUED FOR BID

PROJECT NO.	04-20-0153
DRAWN	DLB
DESIGNED	DLB
APPROVED	CLR
QA/QC	CLR

MONUMENT COLORADO

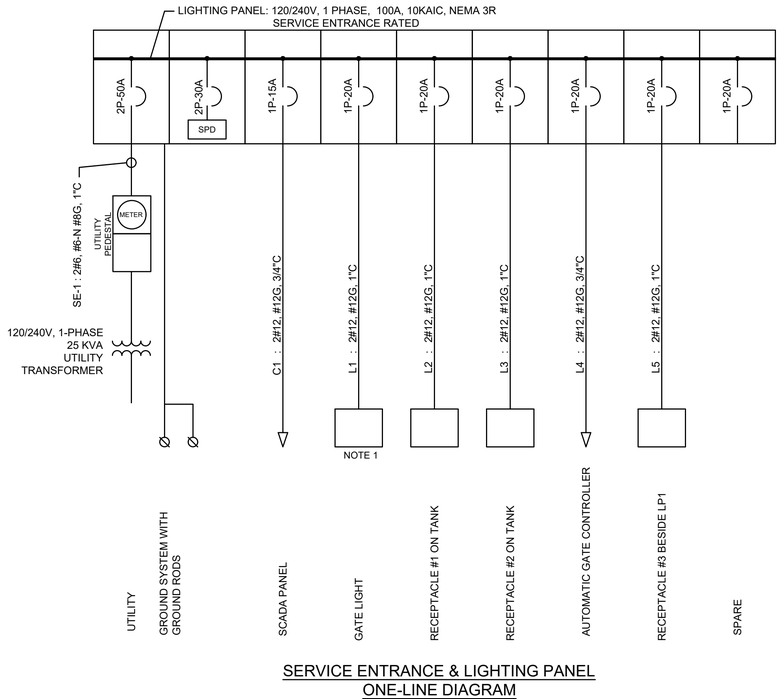
2.0M GALLON TANK

ELECTRICAL - LEGEND

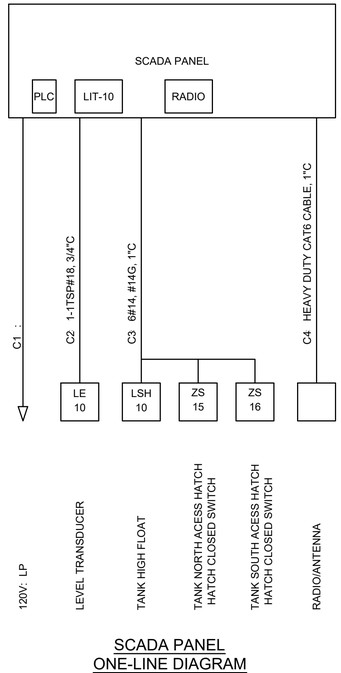
SHEET NO: E01

DATE: MAY 2021

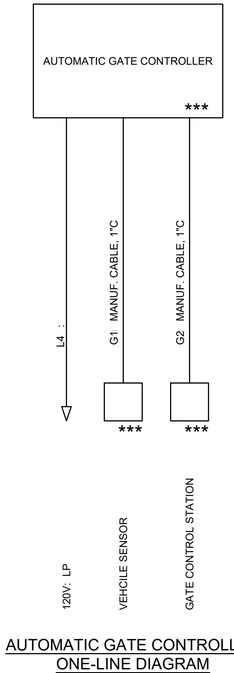
PAGE NO: OF



SERVICE ENTRANCE & LIGHTING PANEL
ONE-LINE DIAGRAM



SCADA PANEL
ONE-LINE DIAGRAM

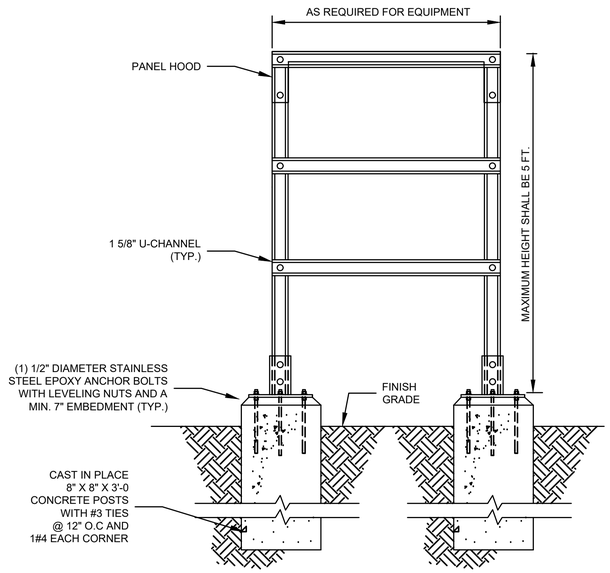


AUTOMATIC GATE CONTROLLER
ONE-LINE DIAGRAM

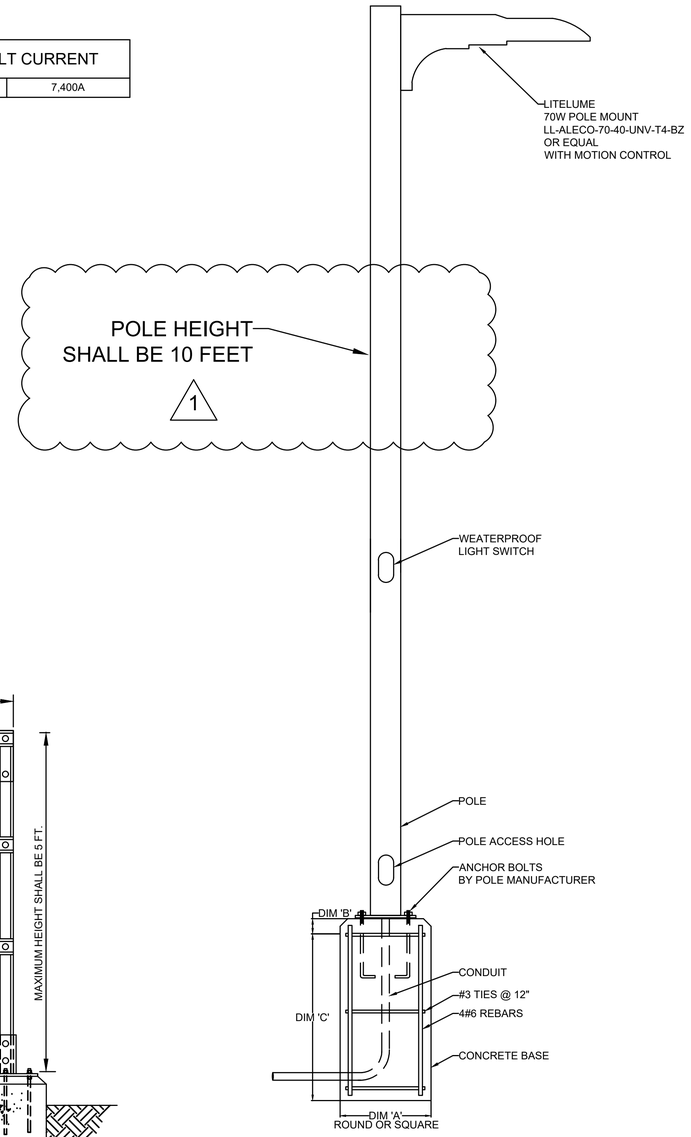
NOTES:
1. THE GATE LIGHT SHALL BE PROVIDED WITH AN ON/OFF SWITCH AND A MOTION SENSOR. IN THE 'ON' POSITION THE MOTION SENSOR SHALL CONTROL THE LIGHT, IN THE 'OFF' POSITION, THE LIGHT SHALL BE OFF.
2. *** - PROVIDED BY GATE SYSTEM PROVIDER.

FAULT CURRENT	
UTILITY	7,400A

NAME:		LP1	BUS:	COPPER			MAINS:	2P-50A	
SERVICE		120/240 VAC	RATING:	100A			LOCATION:	TANK SITE	
MOUNTING		SURFACE, NEMA 3R	AIC RATING:	10KAIC					
V.A.				CIRCUIT NUMBER				V.A.	
A	B	LOAD	PHASE	BREAKER		BREAKER	PHASE	LOAD	A	B
150		SCADA PANEL	1	20	1	20	1		0	
	80	GATE LIGHT	1	20	3	20	1			0
180		RECPT #1 - ON TANK	1	20	5	20	1		0	
	180	RECPT #2 - ON TANK	1	20	7	20	1			0
180		RECPT #3 - BY LP	1	20	9	20	1		0	
	750	GATE POWER	1	20	11	20	1			0
0			1	20	13	20	1		0	
	0		1	20	15	20	1			0
0			1	20	17	20	1		0	
510	1010	TOTALS PER PHASE PER SIDE							0	0
510	1010	TOTALS PER PHASE								
	1520	PANEL TOTAL								



ELECTRICAL EQUIPMENT RACK
DETAIL



LIGHT POLE FOUNDATION
DETAIL

DIMENSIONS			
A	B	C	POLE LENGTH
1' - 0"	2"	3' - 0"	10' TO 12'
1' - 6"	2"	4' - 0"	12' TO 20'
2' - 0"	2"	5' - 0"	20' TO 40'

COLORADO REGISTERED
THEODORE WILLIAMS
30647
1-31-22
PROFESSIONAL ENGINEER

SEE SHEET E3 FOR
PHOTOMETRIC INFORMATION
1

PCD FILE NO. PPR-21-30

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1	REVISON 1	TFW	01/22

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QA/QC	CLR

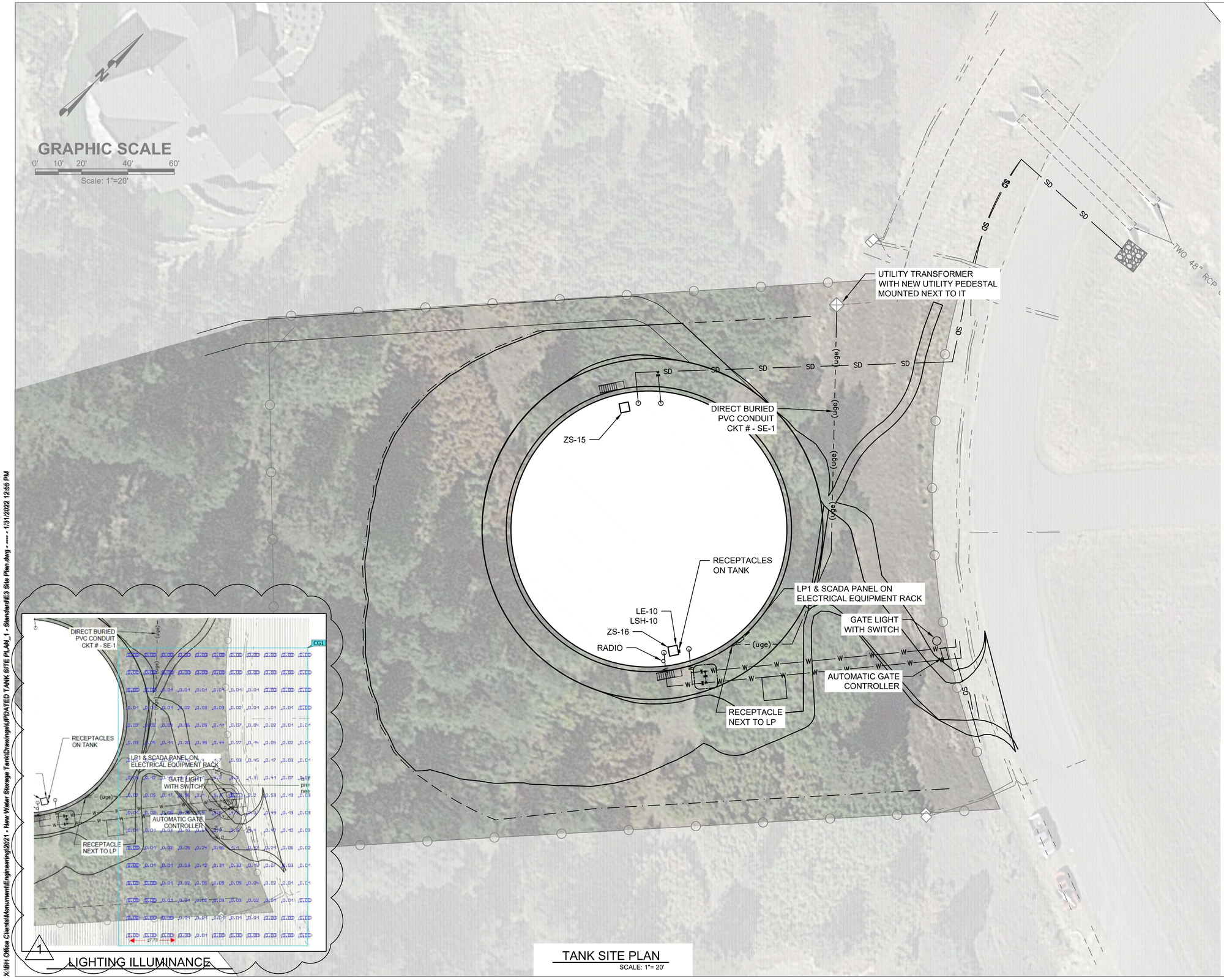
2.0M GALLON TANK

ELECTRICAL - ONE-LINES

SHEET NO: E02

DATE: MAY 2021

PAGE NO: OF



TANK SITE PLAN
SCALE: 1"= 20'

PCD FILE NO. PPR-21-30

COLORADO REGISTERED
THEODORE W. DALL
30647
1-31-22
PROFESSIONAL ENGINEER

NO.	REVISIONS	BY	DATE
1	REVISON 1	TFW	01/22

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2.0M GALLON TANK

ELECTRICAL SITE PLAN

SHEET NO: E03

DATE: MAY 2021

PAGE NO: OF

X:\BH Office Clients\Monument\Engineering\2021 - New Water Storage Tank\Drawings\UPDATED TANK SITE PLAN_1 - Standard\E3 Site Plan.dwg - ==== - 1/31/2022 12:55 PM