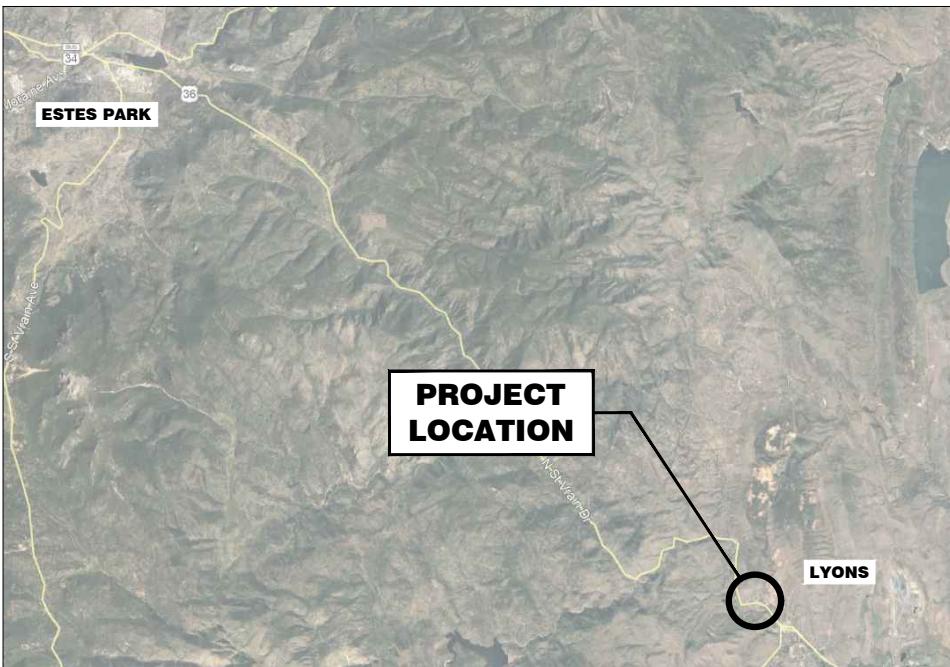


NEWPATH NETWORKS, LLC ("CROWN CASTLE")

NODE SITE: EPB-02
LATITUDE: 40.230572°
LONGITUDE: -105.277174°
COUNTY: BOULDER
STATE: COLORADO
AZIMUTH: 140°, 245°, 310°
POLE OWNER: CROWN CASTLE

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LOCATION MAP

CONTACT INFORMATION:

PROJECT MNGR.

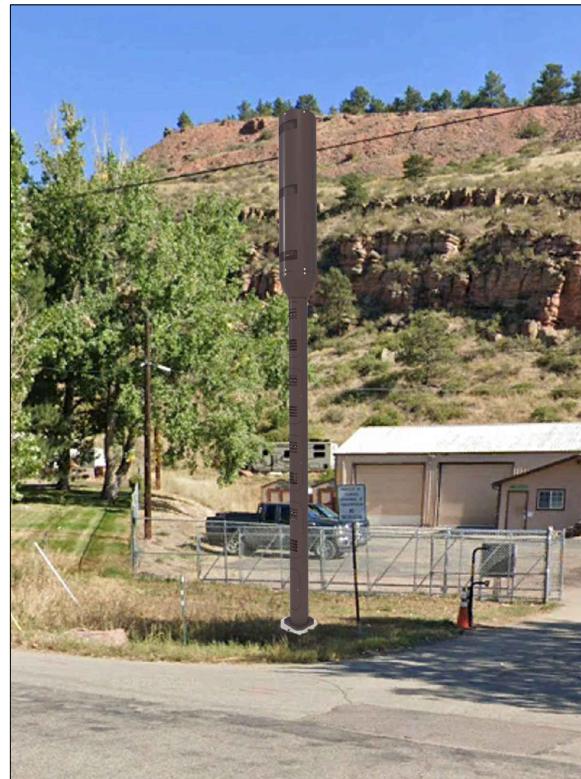
NEWPATH NETWORKS, LLC
CONTACT: CHRIS GATES
PHONE: (703) 251-6420

CONSTR. MNGR.

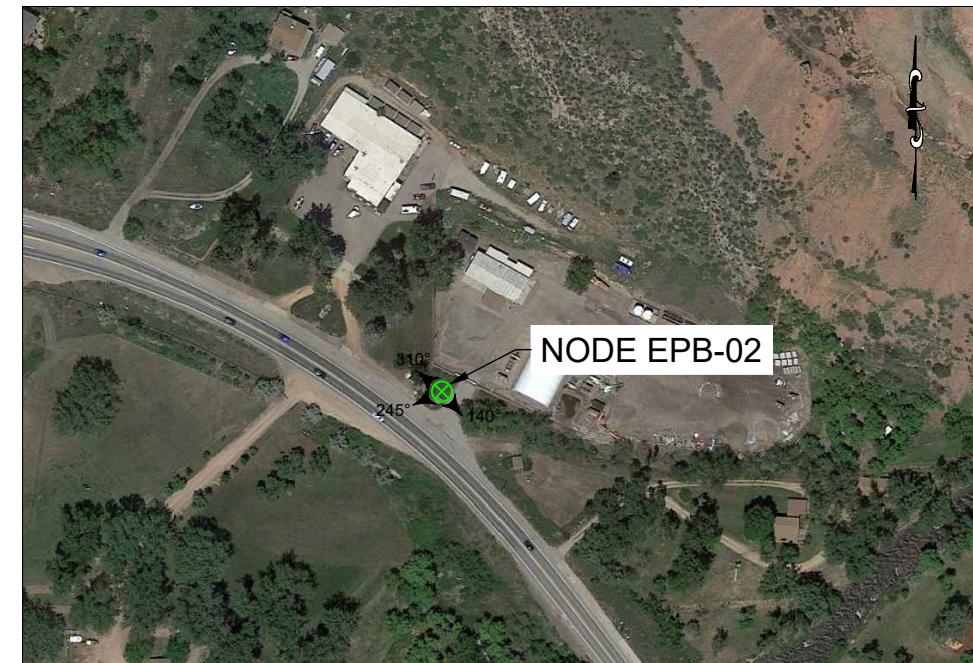
NEWPATH NETWORKS, LLC
CONTACT: CHARLES RICKS
PHONE: (720) 450-3030

ENGINEER

HORROCKS ENGINEERS
CONTACT: BRIAN CHRISTENSEN
PHONE: (801) 763-5100



SITE PHOTO:



NODE PLACEMENT

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
T-01	TITLE SHEET
GN-01	GENERAL NOTES
GN-02	GENERAL NOTES
DT-01	DETAILS
DT-02	DETAILS
DT-03	DETAILS
DT-04	DETAILS
DT-05	FEMA FLOOD MAP
SP-01	SITE PLAN
PS-01	PHOTO SIMULATION
TC-01	TRAFFIC CONTROL

**NEWPATH
NETWORKS, LLC
("CROWN CASTLE")**

PLANS PREPARED BY: **HORROCKS**
H
E N G I N E E R S
2162 West Grove Parkway, Suite 400
Pleasant Grove, UT 84062
(801) 763-5100

ISSUE DATE: JAN 18, 2022

SITE INFORMATION: _____

PROJECT:
CROWN HWY-36

CITY: LYONS
COUNTY: BOULDER
STATE: COLORADO

NODE:
NODE
EPB-02

LAT: 40.230572°
LONG: -105.277174°
AZIMUTH: 140°, 245°, 310°

A circular professional engineer seal. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF COLORADO" at the bottom, both curved along the edge. The inner circle contains "BRIAN ORIN CHRISTENSEN" at the top, "No. 46815" in the center, and "01/18/2022" at the bottom. A signature "Solwinter" is written across the center of the inner circle.

SHEET TITLE: _____

TITLE SHEET

SHEET NUMBER:

GENERAL NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF INTERNATIONAL BUILDING CODE (IBC). (IPC). (IMC) AND NEC.
- THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE.
- THE PROPOSED FACILITY IS UNMANNED AND IS NOT FOR HUMAN HABITAT. (NO HANDICAP ACCESS IS REQUIRED)
- OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH.
- DETAILS AND SCHEMATICS ARE PROPOSED TO SHOW END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY DEEM TO BE NECESSARY TO SUIT JOB CONDITIONS AND DIMENSIONS. SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- VERIFY ALL FINAL EQUIPMENT LOCATIONS WITH OWNERS REPRESENTATIVE. DIMENSIONS ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED.
- DRAWINGS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE DIAGRAMMATIC ONLY. THE WORK INDICATED ON THE DRAWINGS SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT AND APPURTENANCES, AND LABOR NECESSARY TO COMPLETE THE WORK. VERIFY ALL EQUIPMENT LOCATIONS WITH CONSTRUCTION MANAGER.
- THE DRAWING AND SPECIFICATIONS ARE GENERAL DIRECTIVES FOR THE SCOPE OF WORK. EXACT DIMENSIONS AND LOCATIONS MAY CHANGE IN THE FIELD. THE CONTRACTOR IS TO VERIFY THE DIMENSIONS AND LOCATIONS AND REPORT ANY AND ALL DISCREPANCIES TO CONSTRUCTION MANAGER PRIOR TO COMMENCING THE RELATED WORK. ANY MINOR ERRORS OR OMISSIONS IN THE DRAWINGS AND SPECIFICATIONS, DO NOT EXCUSE THE CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT, INCLUDING DEMOLITION, MECHANICAL AND ELECTRICAL INSTALLATIONS AND SHALL ADJUST BID ACCORDINGLY.
- CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS ON THE JOB SITE AND CONFIRM THAT WORK AS INDICATED ON THE CONSTRUCTION DOCUMENTS CAN BE ACCOMPLISHED AS SHOWN BEFORE PROCEEDING.
- NOTIFY CONSTRUCTION MANAGER OF ANY MAJOR DISCREPANCY REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS, AND OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK OR RELATED WORK IN QUESTION.
- INSTALL ALL EQUIPMENT AND MATERIALS PER MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- CONTRACTORS SHALL VISIT JOB SITE TO REVIEW SCOPE OF WORK AND EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, MECHANICAL SERVICE, ELECTRICAL SERVICE AND OVERALL COORDINATION.
- ALL TELEPHONE/RADIO EQUIPMENT LAYOUT, SPECIFICATIONS, PERFORMANCE, INSTALLATION AND THEIR FINAL LOCATION ARE TO BE APPROVED BY CONSTRUCTION MANAGER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE WORK AND CLEARANCE REQUIRED BY OTHERS RELATED TO SAID EQUIPMENT.
- ALL WORK PERFORMED AND MATERIALS SHALL MEET THE HIGHEST TRADE STANDARDS. AS A MINIMUM STANDARD, CONFORM WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK.
- ELECTRICAL SYSTEMS SHALL BE INSTALLED PER NEC AND IN ACCORDANCE WITH ALL APPLICABLE UTILITY COMPANY SPECIFICATIONS, LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKMEN ARE ON THE JOB SITE AND SHALL SUPERVISE AND DIRECT ALL WORK. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND WITH COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE PRESENT CONDITION OF ANY EXISTING BUILDINGS, LANDSCAPING, FENCING, EQUIPMENT, WALKS, DRIVES, AND ATTACHMENTS. IF ANY DAMAGE SHOULD OCCUR, THE CONTRACTOR IS RESPONSIBLE TO RESTORE THE DAMAGE TO A BETTER OR NEW CONDITION.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REDLINING THE CONSTRUCTION PLANS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE. THIS WILL BE DONE AFTER THE SITE HAS BEEN AWARDED THE FINAL INSPECTION. TWO COPIES OF REDLINED DRAWINGS WILL BE PROVIDED TO CONSTRUCTION MANAGER.
- PHOTOS SHALL BE TAKEN OF THE SITE DAILY AT THE REQUEST OF THE CONSTRUCTION MANAGER. ALL WORK TO BE BURIED OR HIDDEN MUST BE PHOTOGRAPHED AND INSPECTED BY CONSTRUCTION MANAGER PRIOR TO BACK FILLING ETC. UNLESS OTHERWISE SPECIFIED BY CONSTRUCTION MANAGER.

SITE WORK:

- RELATED WORK: CONSTRUCTION OF FOUNDATIONS, GROUNDING SYSTEM, AND UTILITY TRENCHES.
- DESCRIPTIONS OF ACCESS ROAD(S), TURNAROUND AREA(S), AND SITES ARE CONSTRUCTED TO PROVIDE A WELL DRAINED, EASILY MAINTAINED, EVEN SURFACE FOR MATERIAL AND EQUIPMENT DELIVERIES AND MAINTENANCE PERSONNEL ACCESS.
- QUALITY ASSURANCE: (A) GRASS SEEDS SHALL BE APPLIED AND MAINTAINED AS RECOMMENDED BY THE SEED PRODUCER (IF REQUIRED). (B) VEGETATION LANDSCAPING, IF INCLUDED WITHIN THE CONTRACT, WILL BE PLACED AND MAINTAINED AS RECOMMENDED BY NURSERY INDUSTRY STANDARDS.
- SEQUENCING:
 - CONFIRM SURVEY STAKES AND SET ELEVATIONS PRIOR TO ANY CONSTRUCTION.
 - THE COMPLETE ROAD AND SITE AREA WILL BE GRUBBED PRIOR TO FOUNDATION CONSTRUCTION OR PLACEMENT OF BACK FILL OR SUB-BASE MATERIAL.
 - CONSTRUCT TEMPORARY CONSTRUCTION ZONE ACCESS DRIVE.
 - THE SITE AREA WILL BE BROUGHT TO SUB-BASE COURSE ELEVATION AND THE ACCESS ROAD TO BASE COURSE ELEVATION PRIOR TO FORMING FOUNDATION.
 - GRADE, SEED FERTILIZER AND MULCH DISTURBED AREAS IMMEDIATELY AFTER BRINGING SITE AND ACCESS ROAD TO BASE COURSE ELEVATION, WATER TO ENSURE GROWTH.
 - REMOVE GRAVEL FROM TEMPORARY CONSTRUCTION ZONE TO AN AUTHORIZED AREA OR AS DIRECTED BY CONSTRUCTION MANAGER.
- SUBMITTALS, BEFORE CONSTRUCTION: ALL SUBMITTALS SHALL BE ROUTED TO PROJECT MANAGER.
- WARRANTY:
 - IN ADDITION TO THE WARRANTY ON ALL CONSTRUCTION COVERED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REPAIR ALL DAMAGE AND REPAIR AREA BACK AS CLOSE TO ORIGINAL CONDITION AS POSSIBLE TO LEASE AREA PROPERTY OR SURROUNDING CAUSED BY CONSTRUCTION.
 - SOIL STERILIZATION APPLICATION SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL INSPECTION.
 - DISTURBED AREAS WILL REFLECT GROWTH OF NEW GRASS COVER PRIOR TO FINAL INSPECTION.
 - LANDSCAPING SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL INSPECTION.
- ALL FILL DIRT SHALL BE CLEAN AND NATURAL, FREE FROM ANY DELETERIOUS MATERIALS, ROOTS, ICE, SNOW, AND RUBBISH. A COPY OF ALL DELIVERY TICKETS SHALL BE SUBMITTED TO THE OWNERS REPRESENTATIVE WITHIN 24-HOURS FROM THE DELIVERY.
- IN ALL ROCKY TERRAINS, TRENCHES SHALL HAVE A SIX-INCH BASE OF CLEAN SAND FILL TO ACCEPT THE CONDUITS AND THEN ANOTHER 12" OF CLEAN SAND FILL ON TOP OF THE CONDUITS. THE REMAINDER OF THE TRENCH SHALL HAVE A CLEAN COMPACTABLE FILL PLACED IN MAXIMUM LIFTS OF 8" AND MECHANICALLY COMPACTED TO A DENSITY OF 98% OF STANDARD PROCTOR MAXIMUM DENSITY. METALLIC WARNING TAPE SHALL BE PLACED AT 12" BELOW FINISHED GRADE ALONG THE ENTIRE TRENCH.
- ALL COMPACTION OF SITE AREAS SHALL BE ACCOMPLISHED BY MECHANICAL MEANS. LARGER AREAS SHALL BE COMPACTED BY A SHEEP'S FOOT VIBRATORY ROLLER WEIGHING AT LEAST 5 TONS. SMALLER AREAS SHALL BE COMPACTED BY A POWER DRIVEN HAND HELD TAMPER. ALL COMPACTED AREAS SHALL BE COMPACTED TO WITHIN 98% OF STANDARD PROCTOR MAXIMUM DENSITY.
- ALL FILL OR STONE WILL BE PLACED IN MAXIMUM 8" LIFTS PRIOR TO COMPACTING.
- THE CONTRACTOR IS RESPONSIBLE TO ENSURE GROWTH OF THE SEED AND LANDSCAPING AREAS BY WATERING, STRAW, MULCH NET ANY OTHER PROPER LANDSCAPING METHOD NECESSARY. ALL AREAS MUST HAVE SUSTAINED GROWTH BY THE TIME OF COMPLETION OF THE PROJECT.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTAINMENT OF SEDIMENT AND CONTROL OF EROSION ON SITE. ANY DAMAGE TO ADJACENT OR DOWNSTREAM PROPERTIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS TO MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES. DO NOT ALLOW WATER TO STAND OR POND. ANY DAMAGE TO STRUCTURES OR WORK ON THE SITE CAUSED BY INADEQUATE MAINTENANCE OF DRAINAGE PROVISIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ANY COST ASSOCIATED WITH REPAIRS FOR SUCH DAMAGE WILL BE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO CORRECT ALL DAMAGE TO THE SITE SUBSEQUENT TO THE INSTALLATION OF THE POWER AND TELCO LINES.

PRODUCTS:

- ALL ROADWORK AND MATERIALS SHALL CONFORM TO ALL STATE AND LOCAL CODES AND IN ACCORDANCE WITH THE UTAH DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- SOIL STABILIZER FABRIC SHALL BE MIRAFI-500X.

DEMOLITION:

- EXISTING WORK AND SITE CONDITIONS TO REMAIN SHALL BE PROTECTED FROM DAMAGE, WORK DAMAGED BY CONTRACTOR SHALL BE REPAIRED TO MATCH EXISTING WORK.
- AT THE END OF EACH WORK DAY AND DURING INCLEMENT WEATHER, CLOSE ALL EXTERIOR OPENINGS WITH WEATHERPROOF COVER.
- REMOVE DEBRIS AND RUBBISH FROM THE SITE DAILY. DO NOT ALLOW DEBRIS AND RUBBISH TO ACCUMULATE ON SITE.

EXECUTION:

- INSPECTIONS: REQUIRED BUILDING INSPECTORS SHALL BE ARRANGED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS. UNLESS OTHERWISE SPECIFIED BY OWNER OR LOCAL JURISDICTION.
- INSTALLATION:
 - THE SITE AND TURNAROUND AREAS SHALL BE AT THE SUB-BASE COURSE ELEVATION PRIOR TO FORMING FOUNDATIONS. GRADE OR FILL THE SITE AND ACCESS ROAD REQUIRED IN ORDER THAT UPON EVEN DISTRIBUTION OF SPOILS RESULTING FROM FOUNDATION EXCAVATIONS, THE RESULTING GRADE WILL CORRESPOND WITH SAID SUB-BASE COURSE, ELEVATIONS ARE TO BE CONSTRUCTED TO HAVE A POSITIVE DRAINAGE SLOPE INDICATED. ALL SITES AND ACCESS ROADS ARE TO BE CONSTRUCTED TO HAVE A POSITIVE DRAINAGE AWAY FROM THE SITE AND EQUIPMENT. ANY DISCREPANCIES IN THE DRAWINGS OR SPECIFICATIONS MUST BE BROUGHT TO THE ATTENTION OF CONSTRUCTION MANAGER IMMEDIATELY.
 - ALL EXCESS SPOILS SHALL BE CLEARED FROM JOB SITE AND NOT SPREAD BEYOND THE LIMITS OF THE LEASE PROPERTY UNLESS AUTHORIZED BY CONSTRUCTION MANAGER AS AGREEMENT BY LANDOWNER.
 - AVOID CREATING DEPRESSIONS WHERE WATER MAY POND.
 - THE CONTRACT SHALL INCLUDE GRADING, BANKING, DITCHING AND UNLESS OTHERWISE INDICATED, COVERING WITH TWO INCHES OF SURFACE COURSE. ALL ROADS OR ROUTES UTILIZED FOR ACCESS TO THE SITE COMMENCE AT THE POINT OF INTERSECTION WITH THE NEAREST PUBLIC THOROUGHFARE.
 - PLACE FILL OR STONE IN EIGHT INCH MAXIMUM LIFTS AND COMPACT BEFORE PLACING NEXT LIFT.
 - THE FINISH GRADE, INCLUDING TOP SURFACE COURSE, SHALL COVER THE AREA AS INDICATED.
- THE CONTRACTOR SHALL ORDER A FULL UTILITY LOCATE SERVICE PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, IRRIGATION, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES, WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, UTILITIES SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES.
- CONTRACTOR AND SUB-CONTRACTORS SHALL VERIFY ALL UTILITY SERVICE CONNECTION LOCATIONS AND VERIFY ALL DIMENSIONS AND NOTES PRIOR TO PROCEEDING WITH WORK.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
- THE CONTRACTOR SHALL COORDINATE LOCATION OF POLE AND EQUIPMENT WITH THE SURVEYOR OR RECORDED PRIOR TO COMMENCING WORK.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT AND TOWER AREAS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND, NOR SHALL ANY FROZEN MATERIALS, SNOW OR ICE BE PLACED IN FILL OR EMBANKMENT.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. ALL DISTURBED LANDSCAPING SHALL BE REPLACED, RESEEDED, AND REGROWN TO MATCH THE ORIGINAL CONDITION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- ALL WORK IS BEING PERFORMED IN THE RIGHT-OF-WAY. VERIFY ALL R.O.W. LINES AND EQUIPMENT LOCATION/INSTALLATIONS WITH SURVEYED DATA. NO MATERIALS SHALL BE STORED ON PRIVATE PROPERTY.
- LANE CLOSURES OR OBSTRUCTIONS SHALL BE PROPERLY COORDINATED WITH UDOT.

NOTE: ALL APPLICABLE LOCAL AND NATIONAL CODES SUPERSEDE ANY NOTES AND SPECIFICATIONS SHOWN IN THE CONSTRUCTION PACKAGE

CROWN CASTLE
2000 CORPORATE DRIVE
CANNONSBURG, PA 15317

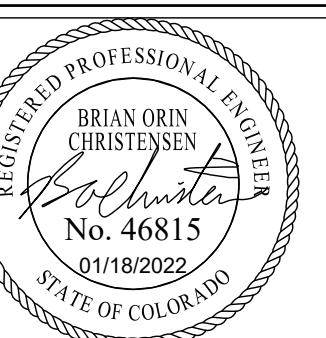
PLANS PREPARED BY:
HORROCKS
E N G I N E E R S
2162 West Grove Parkway, Suite 400
Pleasant Grove, UT 84062
(801) 763-5100

NO. DATE: DESCRIPTION: BY:

ISSUE DATE:
JAN 18, 2022

SITE INFORMATION:
CROWN HWY-36
DAS INSTALLATION

SCALE:

SEAL:


SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
GN-01

CODES:

- A) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2003 VERSIONS OF THE INTERNATIONAL BUILDING CODES: BUILDING (IBC), PLUMBING (IPC), MECHANICAL (IMC), AND ELECTRICAL (2011 NEC), ALONG WITH ALL APPLICABLE FEDERAL, STATE, COUNTY, AND MUNICIPAL BUILDING CODES, ORDINANCES, RULES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE CONSTRUCTION OF THIS PROJECT, SHALL APPLY THROUGHOUT.
- B) AMERICAN CONCRETE INSTITUTE, ACI 318-05, STANDARD BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
- C) AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC 9TH EDITION, MANUAL OF STEEL CONSTRUCTION.
- D) AMERICAN WELDING SOCIETY, AWS D1.1 2002 EDITION, STRUCTURAL WELDING CODE.
- E) STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS: ANSI/TIA-222-G-2009

GENERAL NOTES:

1. THESE STRUCTURAL NOTES SUPPLEMENT THE WRITTEN SPECIFICATIONS AND PROJECT DRAWINGS.
2. NOTES AND DETAILS ARE TYPICAL AND APPLY TO ALL SIMILAR CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE CONTRACT DOCUMENTS.
3. ANY DISCREPANCY FOUND AMONG THE NOTES, WRITTEN SPECIFICATIONS AND PROJECT DRAWINGS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER/ENGINEER FOR CORRECTION AND/OR CLARIFICATION. IF CONSTRUCTION MANAGER/ENGINEER IS NOT AVAILABLE TO PROVIDE COMMENT, THE CONTRACTOR IS TO PROCEED WITH THE MOST STRINGENT REQUIREMENT AT NO ADDITIONAL COST TO THE OWNER.
4. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING CONSTRUCTION MATERIAL TYPES, DIMENSIONS, ELEVATIONS AND CONDITIONS. HE SHALL VERIFY AND COORDINATE THE DIMENSIONS AMONG ALL DRAWINGS AND IN THE FIELD PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION, ANY DISCREPANCY SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
5. THE CONTRACTOR IS RESPONSIBLE FOR ALL BRACING, TEMPORARY SHORING, WATER AND OTHER ENVIRONMENTAL CONTROLS REQUIRED DURING CONSTRUCTION TO INSURE THE STABILITY AND SAFETY OF ALL CONSTRUCTION UNTIL COMPLETE AND SELF-SUPPORTING.
6. STRUCTURAL OBSERVATIONS MADE BY THE ENGINEER SHALL NOT BE CONSTRUED AS SPECIAL INSPECTIONS.

FOUNDATION:

1. REMOVE UNSATISFACTORY MATERIALS FROM EXCAVATION. UNSATISFACTORY MATERIALS MAY INCLUDE BUT ARE NOT LIMITED TO: VEGETATION, SOFT SPOTS, DELETERIOUS MATERIALS, FOREIGN MATERIALS, ETC.
2. EXCAVATION IS TO BE MECHANICALLY COMPAKTED PRIOR TO ANY CONSTRUCTION ON EXCAVATION, REPLACE UNSATISFACTORY AREAS WITH COMPAKTED FILL (COMPAKTED EXCAVATION TO 98% AS NOTED BELOW).
3. ALL FOOTINGS TO BE PLACED ON FIRM UNDISTURBED, INORGANIC MATERIAL. PROOF ROLL SUB-GRADE PRIOR TO PLACING CONCRETE WHERE THE MATERIAL HAS BEEN DISTURBED BY THE EXCAVATING EQUIPMENT.
4. LOCAL AREAS OF SOFT AND/OR UNACCEPTABLE MATERIAL ENCOUNTERED AT BOTTOM OF FOOTING ELEVATIONS INDICATED ON THE PLANS MUST BE OVER-EXCAVATED AND BROUGHT UP TO DESIGN GRADE COMPAKTED "STRUCTURAL FILL" OR "LEAN CONCRETE FILL".
5. IMPORTED FILL: WELL GRADED GRANULAR SOIL FREE OF ORGANICS AND DEBRIS. WELL GRADED SANDY GRAVEL. MAXIMUM LIFT HEIGHT FOR FILL MATERIAL SHALL BE 8" FOR MECHANICALLY COMPAKTED LAYERS AND 4" FOR HAND COMPAKTED LAYERS.
6. COMPAKCTION: ALL FILL UNDER OR AROUND BUILDING INCLUDING FOOTINGS AND FOUNDATIONS SHALL BE COMPAKTED TO NOT LESS THAN 98% MAXIMUM LABORATORY DRY UNIT WEIGHT AS DETERMINED BY ASTM D 1557 (MODIFIED PROCTOR).
7. GRADING: SLOPE GRADE TO DIRECT WATER AWAY FROM BUILDINGS AND TO PREVENT PONDING.
8. FOOTINGS ARE TO BE CENTERED UNDER WALLS UNLESS NOTED OTHERWISE.
9. FOOTINGS ARE TO BE PLACED 18" MINIMUM BELOW FINAL FINISHED GRADE AND MUST BE BELOW FROST LEVEL, CONTRACTOR TO VERIFY FROST DEPTH WITH SOILS REPORT OR COUNTY OFFICES.
10. ITEMS TO BE EMBEDDED INTO FOOTINGS OR FROM FOOTINGS TO FOUNDATION WALLS ARE TO BE SECURELY TIED IN PLACE PRIOR TO PLACING CONCRETE. REPOSITIONING OF EMBEDDED ITEMS AFTER CONCRETE HAS BEEN PLACED WILL NOT BE PERMITTED.
11. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL DIRECTIONS AND SPECIFICATIONS.

CONCRETE:

1. CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH AVERAGE UNIT WEIGHT EQUAL TO 145 PCF. MAXIMUM WATER/CEMENT RATIO SHALL BE 0.45.

LOCATION:	STRENGTH (MIN):	SLUMP (MAX):	AIR CONTENT (+/-1%):
FOOTINGS	4000 PSI	4"	NO ENTRAINED AIR
SLABS:			
EXTERIOR	4000 PSI	3"	6%
INTERIOR	4000 PSI	3"	NO ENTRAINED AIR
2. CONCRETE WORK SHALL CONFORM TO CHAPTER 19 OF THE INTERNATIONAL BUILDING CODE.
3. ALL CONCRETE SURFACES SHALL BE CURED PER THE SPECIFICATIONS AND IN CONFORMANCE WITH ACI 308.1-05.
4. MECHANICALLY VIBRATE ALL CONCRETE.
5. NO ALUMINUM CONDUITS OR BOXES ARE TO BE EMBEDDED IN THE CONCRETE.
6. CHAMFER ALL EXPOSED CORNERS AND FILLET ENTRANT ANGLES $\frac{3}{8}$ "

FORMWORK:

1. FORMWORK FOR CONCRETE SHALL CONFORM TO ACI 347R-05, GUIDE TO FORMWORK FOR CONCRETE. TOLERANCES FOR FINISHED CONCRETE SURFACES SHALL MEET THE FOLLOWING REQUIREMENTS, CLASS OF SURFACE IS PER TABLE 3.4:

FOOTINGS: CLASS C	FOUNDATION WALLS: CLASS B	OTHER ABOVE-GRADE CONCRETE: CLASS A
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2. FORMS SHALL BE PROPERLY COATED.
3. REINFORCEMENT SHALL BE CLEAN OF ICE OR OTHER DELETERIOUS COATINGS.
4. IN NO CASE SHALL THE TOLERANCE FOR FINISHED CONCRETE SURFACES EXCEED THE FOLLOWING VALUES AS MEASURED FROM NEAT PLAN LINES AND FINISHED GRADES:

FOOTINGS: +/- 1/4 IN VERTICAL, +/- 1 IN HORIZONTAL	FOUNDATION WALLS: +/- 3/8 IN VERTICAL, +/- 1/2 IN HORIZONTAL	OTHER ABOVE-GRADE CONCRETE: +/- 1/4 IN VERTICAL, +/- 3/8 IN HORIZONTAL
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MIXING:

1. ALL DEBRIS AND ICE SHALL BE REMOVED FROM SPACES TO BE OCCUPIED BY CONCRETE.
2. ITEMS TO BE EMBEDDED IN CONCRETE ARE TO BE SECURELY TIED IN PLACE PRIOR TO PLACING CONCRETE. REPOSITIONING OF EMBEDDED ITEMS AFTER CONCRETE HAS BEEN PLACED WILL NOT BE PERMITTED.
3. DO NOT ADD WATER TO CONCRETE DURING DELIVERY, AT PROJECT SITE, OR DURING PLACEMENT WITHOUT PRIOR APPROVAL FROM ENGINEER.
4. CONCRETE SHALL BE CONVEYED FROM MIXER TO PLACE OF FINAL DEPOSIT BY METHODS THAT WILL PREVENT SEPARATION OF LOSS OF MATERIALS. CONCRETE SHALL BE DEPOSITED AS NEARLY AS PRACTICAL IN ITS FINAL POSITION TO AVOID SEGREGATION DUE TO REHANDLING OR FLOWING.
5. CONCRETE THAT HAS PARTIALLY HARDENED OR BEEN CONTAMINATED BY FOREIGN MATERIALS SHALL NOT BE DEPOSITED IN THE STRUCTURE.
6. AFTER PLACEMENT HAS STARTED, IT SHALL BE CARRIED ON AS A CONTINUOUS OPERATION.
7. ALL CONCRETE SHALL BE CONSOLIDATED BY A MECHANICAL VIBRATOR. VIBRATOR SHALL BE INSERTED VERTICALLY AT A MEDIUM PACE AND RETRACTED IMMEDIATELY. DO NOT USE VIBRATOR TO TRANSPORT CONCRETE.
8. CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES F AND IN A MOIST CONDITION FOR AT LEAST 7 DAYS AFTER PLACEMENT. ACCELERATED SCHEDULES ARE PERMISSIBLE PROVIDED AN ACCELERATED CURING PLAN IS PROVIDED TO AND APPROVED BY CONSTRUCTION MANAGER/ENGINEER.
9. SHORING AND BRACING SHALL REMAIN IN PLACE UNTIL CONCRETE HAS OBTAINED FULL DESIGN STRENGTH.
10. CONCRETE PROTECTION SHALL BE PROVIDED IF HOT/COLD WEATHER CONDITIONS ARE PRESENT DURING PLACEMENT OF CONCRETE.

REINFORCING STEEL:

1. CONCRETE BLOCKS OR PLASTIC-COATED BAR CHAIRS SHALL BE PROVIDED FOR SUPPORT OF ALL SLAB REINFORCING STEEL, SUFFICIENT IN NUMBER TO PREVENT SETTLEMENT OR SAGGING, BUT IN NO CASE SHALL SUCH SUPPORT BE CONTINUOUS. METAL CUPS OR SUPPORTS SHALL NOT BE PLACED IN CONTACT WITH THE FORMS OR THE SUB-GRADE.
2. DOWELS AND ANCHOR BOLTS SHALL BE WIRED OR HELD IN CORRECT POSITION PRIOR TO PLACING CONCRETE. CARE SHALL BE TAKEN TO INSURE THAT DOWELS AND ANCHOR BOLTS REMAIN PLUMB AFTER CONCRETE IS POURED AND VIBRATED. IN NO CASE SHALL DOWELS OR ANCHOR BOLTS BE STABBED INTO FRESHLY POURED CONCRETE.
3. PROVIDE DOWELS IN FOOTINGS AND AT CONSTRUCTION JOINTS TO MATCH VERTICAL REINFORCING BAR SIZE AND SPACING, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. COORDINATE PLACEMENT OF DOWELS INTO MASONRY OR BRICK WALLS WITH THE MASONRY SHOP DRAWINGS.
5. ALL BAR BENDS, HOOKS, SPLICES AND OTHER REINFORCING STEEL DETAILS SHALL CONFORM TO THE REQUIREMENTS OF ACI 315.
6. UNLESS OTHERWISE NOTED ON THE PLANS ALL BARS SHALL BE SPLICED WITH A MINIMUM LAP OF 32 BAR DIAMETERS; LAP SPLICES OF DEFORMED BARS AND DEFORMED WIRE IN TENSION ZONES SHALL BE CLASS B SPLICES.
7. DEFORMED REINFORCING SHALL CONFORM TO ASTM 615 GRADE 60 UNLESS NOTED OTHERWISE.
8. WELDED WIRE FABRIC REINFORCING SHALL CONFORM TO ASTM A 185 GRADE 60.
9. AT THE TIME CONCRETE IS PLACED, REINFORCEMENT SHALL BE FREE FROM MUD, OIL, OR OTHER NONMETALLIC COATINGS THAT DECREASE BOND. A LIGHT COATING OF MILL SCALE OR RUST WILL BE PERMITTED.
10. ANCHOR BOLTS SHALL BE ASTM A307. PLACEMENT OF ANCHOR BOLTS SHOULD BE VERIFIED BY TWO PERSONS TO ENSURE PROPER PLACEMENT.
11. ALL W-SHAPES SHALL CONFORM TO ASTM A 992. ALL OTHER STEEL SHALL CONFORM TO ASTM A 36.

PROTECTION:**CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS:****CONDITION: MIN. COVER**

1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3"
2. CONCRETE EXPOSED TO EARTH OR WEATHER:
#6-#18.....2"
#5 BAR OR LESS AND W.W.F.....1 1/2"
3. CONCRETE EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND:
SLABS, WALL, AND JOISTS:
#14 - #18 1 1/2"
#11 AND SMALLER 3/4"
4. BEAMS AND COLUMNS:
PRIMARY BARS, TIES, STIRRUPS, AND SPIRAL 1 1/2"
5. SHELLS AND FOLDED PLATE MEMBERS:
#6 AND LARGER 3/4"
#5 AND SMALLER 1/2"

VALUES ARE FOR CONCRETE ONLY.**SPLICE AND LAP LENGTHS SHALL BE AS FOLLOWS:**

1. LAP WELDED WIRE FABRIC SHALL BE LAPPED ONE FULL MESH AT SIDE AND END.

LAP LENGTH TABLE FOR CONCRETE
#3 BAR, 18" LENGTH - #4 BAR, 24" LENGTH
#5 BAR, 30" LENGTH - #6 BAR, 36" LENGTH
#7 BAR, 48" LENGTH - #8 BAR, 60" LENGTH
2. IF EPOXY COATED REBAR IS USED, INCREASE VALUES BY 50%.
3. REINFORCING SHALL BE FIELD BENT IN A MANNER THAT IS NOT INJURIOUS TO THE REINFORCEMENT OR THE CONCRETE. ALL FIELD BENDING SHALL BE PERFORMED WHEN REINFORCEMENT IS COLD.

FINISHING:

1. FLOOR SLABS; CONCRETE FLOOR SLABS SHALL BE FINISHED IN ACCORDANCE WITH ACI 302.1 CHAPTER B. PROVIDE CLASS 4 FINISH UNLESS NOTED OTHERWISE ON THE PLANS OR SPECIFICATIONS. PROVIDE NON-SLIP FINISH FOR EXTERIOR SURFACES AND AS NOTED ON THE PLANS.
2. FORMED SURFACE FINISHING: ALL FORMED CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH ACI 301.99 SECTIONS 5.3, 6.3, AND 7.3. PROVIDE ROUGH FORMED SURFACE FOR ALL SURFACES NOT EXPOSED TO VIEW AND SMOOTH FORMED FINISH FOR ALL SURFACES EXPOSED TO VIEW, UNLESS NOTED OTHERWISE ON THE PLANS OR SPECIFICATIONS.

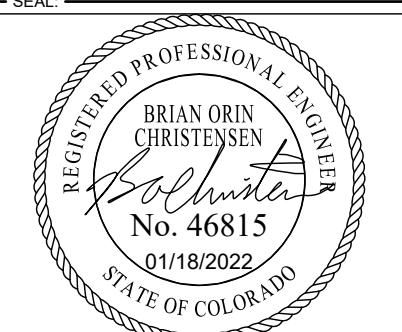
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ISSUE DATE:
JAN 18, 2022

SITE INFORMATION:
CROWN HWY-36
DAS INSTALLATION

SCALE:

SEAL:



SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
GN-02

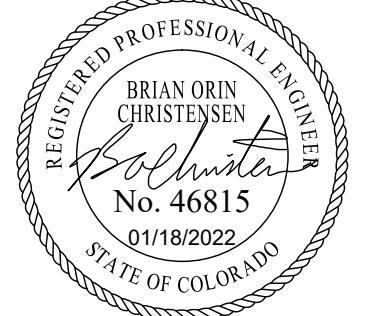
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CROWN HWY-36

DAS INSTALLATION

SCALE: _____

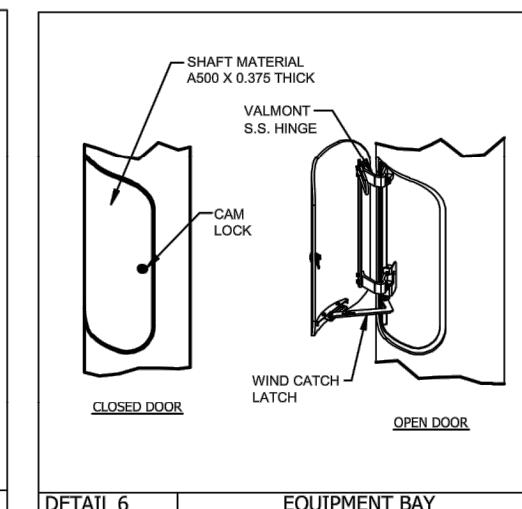
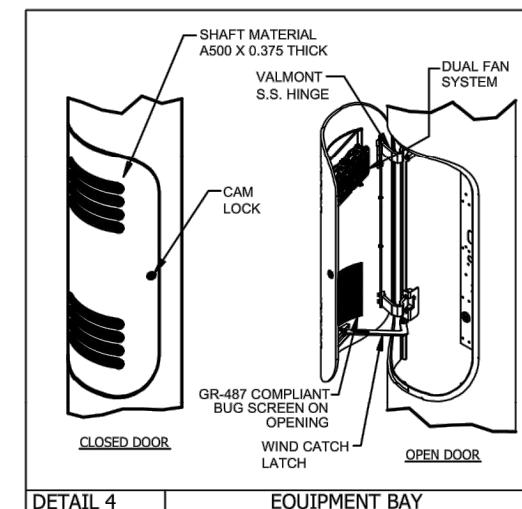
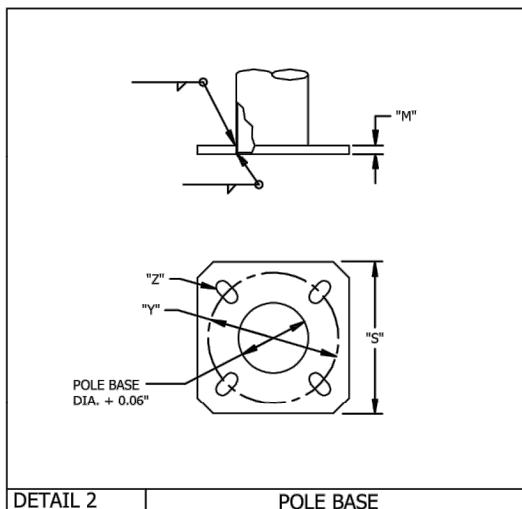
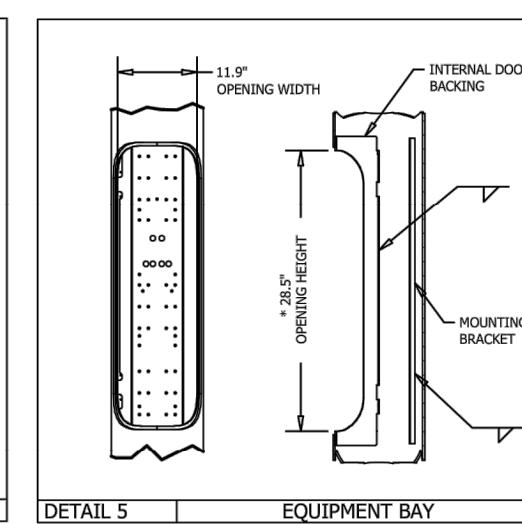
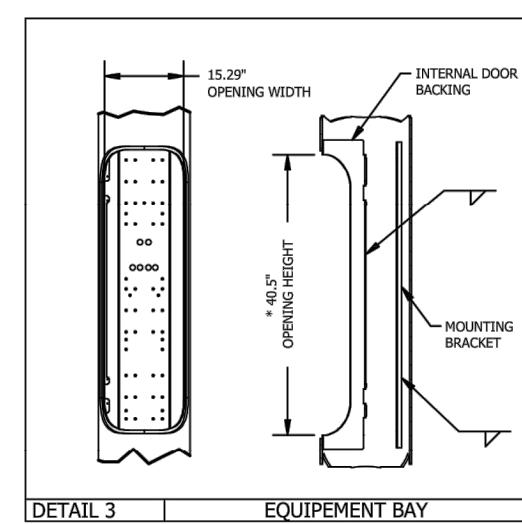
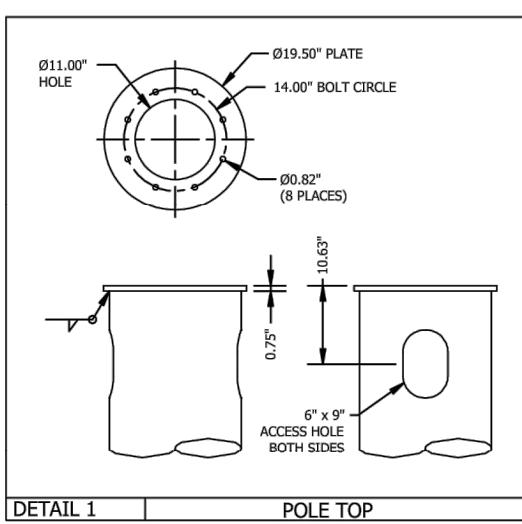
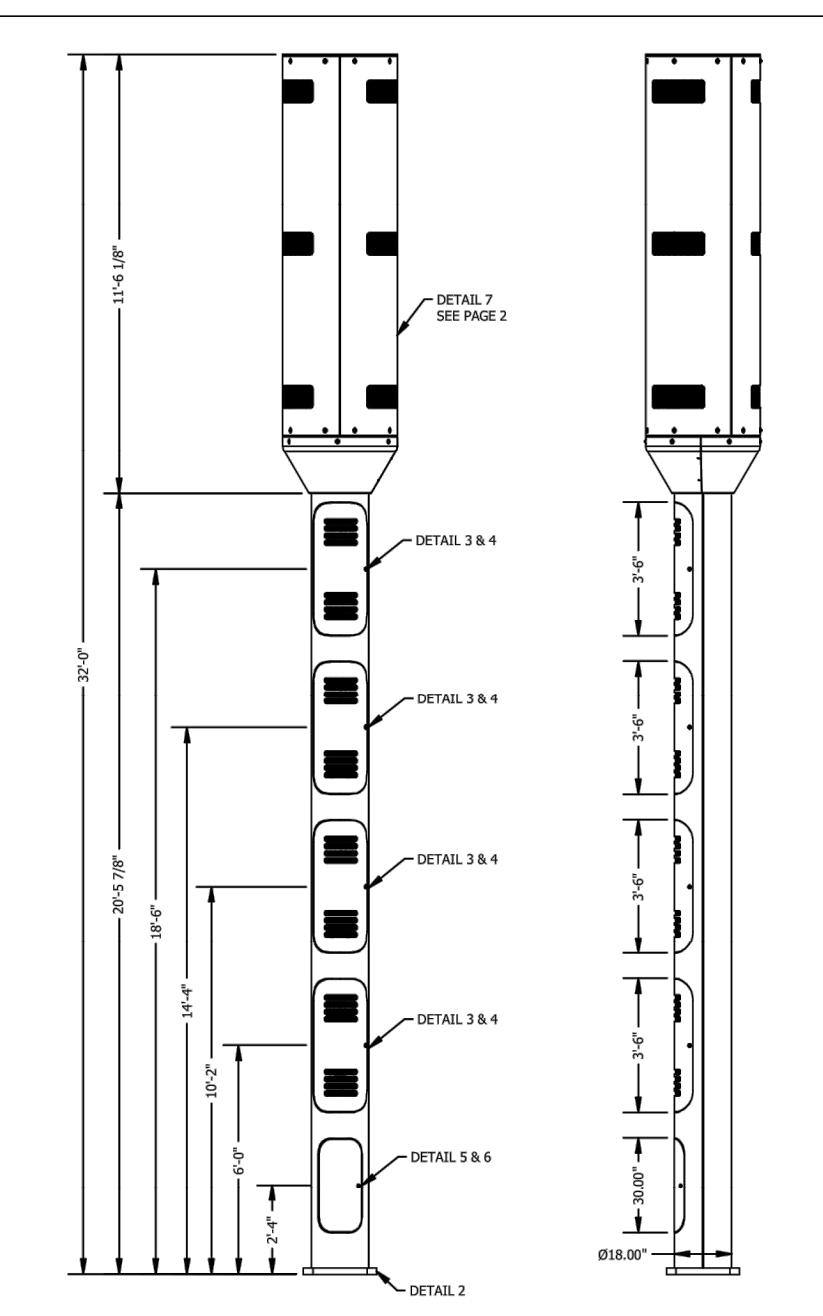


SHEET TITLE: _____

DETAILS

SHEET NUMBER: _____

DT-01



MATERIAL DATA		
COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
POLE TUBE	A500 GR. B	42
POLE BASE	A36	36
ANCHOR BOLTS	F1554 OR GR. 55	55
GALVANIZING - HARDWARE	A153	

			SOLD TO:
			SHIP TO:
			P.O. #:
			AGENT:
VS7 01/21/21	AAH 01/22/21	-----	
DRAWN BY-DATE	CHECK BY-DATE	DESCRIPTION	

	JOB	HWY-36, CO, P22
		18" CONCEAL POLE
	TITLE	SMALL CELL STRUCT

ALTHOUGH RARE, VIBRATIONS SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN STRUCTURES OF ALL TYPES. BECAUSE THEY ARE INFLUENCED BY MANY INTERACTING VARIABLES, VIBRATIONS ARE GENERALLY UNPREDICTABLE. THE USER'S MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION FOR EXCESSIVE VIBRATION AND EXAMINATION FOR ANY STRUCTURAL DAMAGE OR BOLT LOOSENING. THE VALMONT WARRANTY SPECIFICALLY EXCLUDES FATIGUE FAILURE OR SIMILAR PHENOMENA RESULTING FROM INDUCED VIBRATION, HARMONIC OSCILLATION OR RESONANCE ASSOCIATED WITH MOVEMENT OF AIR CURRENTS AROUND THE PRODUCT.

VIBRATION DISCLAIMER



ORDER NUMBER:	500732-P1	
PAGE NUMBER:	1	OF 2
DRAWING NUMBER	REV	
C0500732P1		

Q:\1120\91CO-1941-1909 Crown HWY-36 Lyons to Estes Park\Project\Data\Sheet Files\Sheet Sets\EPB-02\3. DETAILS\Sheet S.dwg - DT-01 DETAILS - 3/09/2022 01:24pm, joe benson

PLANS PREPARED BY:

HORROCKS


 ENGINEERS

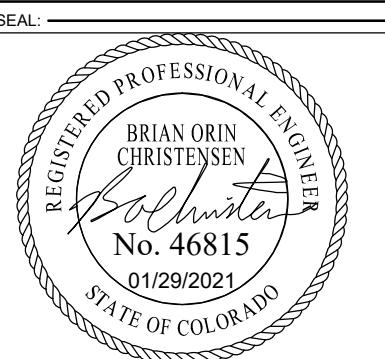
 2162 West Grove Parkway, Suite 400
 Pleasant Grove, UT 84062
 (801) 763-5100

 NO. DATE DESCRIPTION BY:
 4 02/16/22 UPDATE POLE DETAIL KC

 ISSUE DATE:
 JAN 18, 2022

 SITE INFORMATION:
 CROWN HWY-36
 DAS INSTALLATION

SCALE:

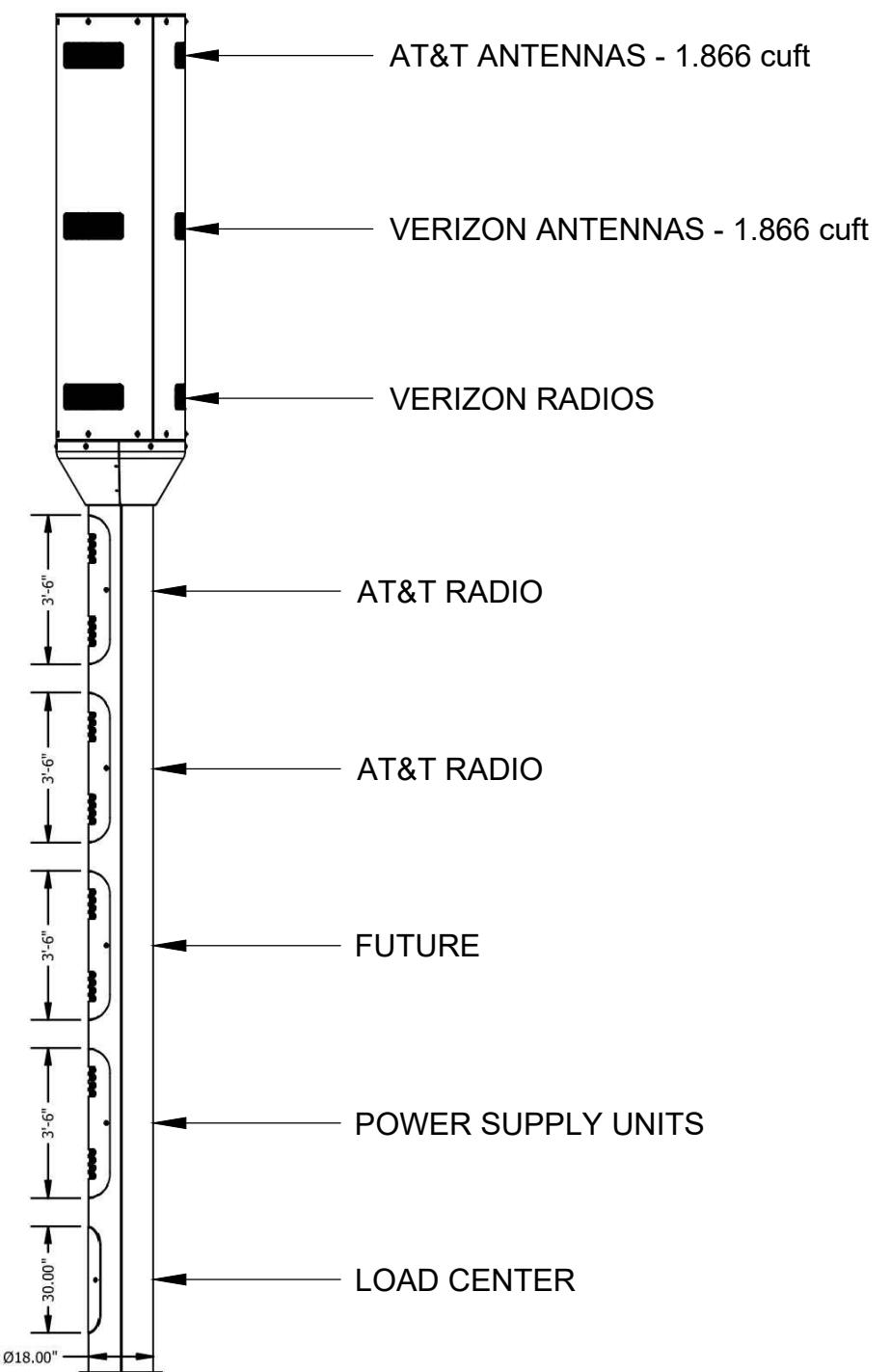
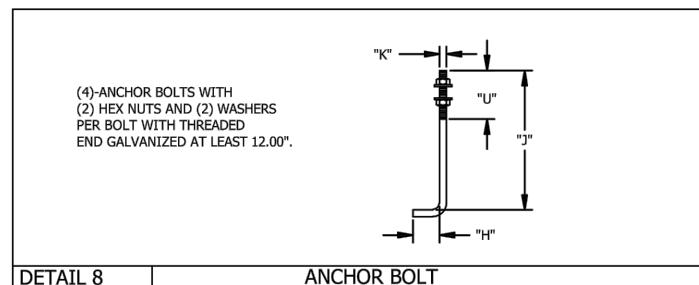
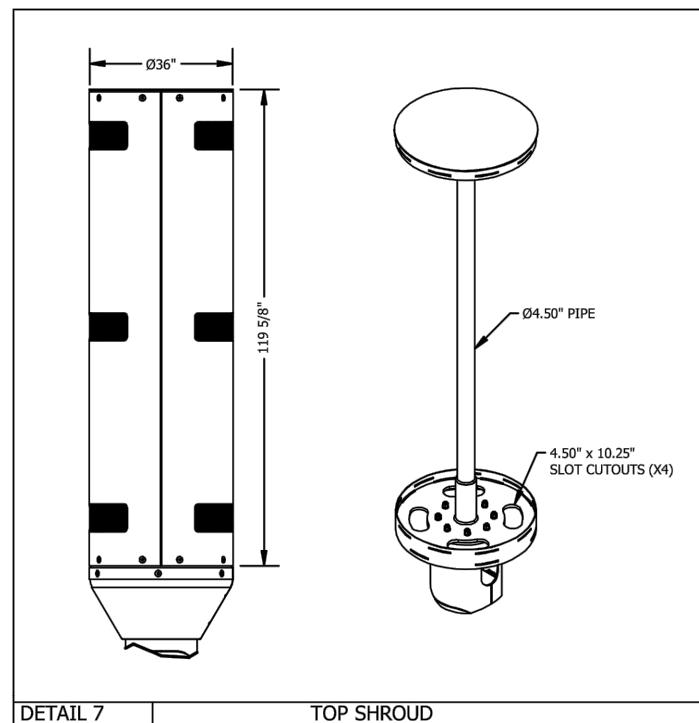


SHEET TITLE:

DETAILS

SHEET NUMBER:

DT-02

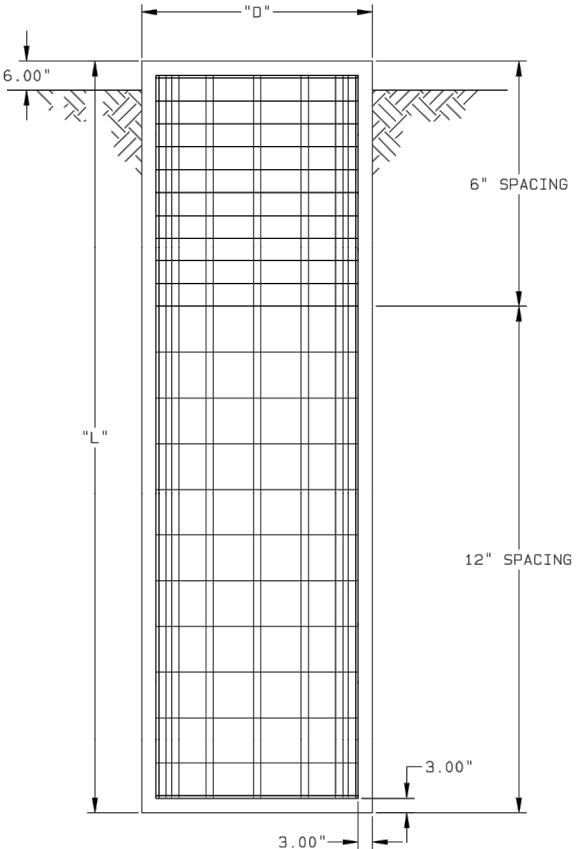

 JOB: HWY-36, CO, P22
 18" CONCEAL POLE
 TITLE: SMALL CELL STRUCTURE

 VALMONT INDUSTRIES, INC. RESERVES
 THE RIGHT TO INSTALL VARIOUS,
 ENGINEER APPROVED, MATERIAL HANGING
 ACCOMMODATIONS TO FACILITATE THE
 MANUFACTURING PROCESS.

valmont
 Valley, NE 68064
 (402) 359-2201

 ORDER NUMBER: 500732-PI
 PAGE NUMBER: 2 OF 2
 DRAWING NUMBER: CO500732P1
 REV: A

FOUNDATION SIZE (S)						
POLE NO.	CAISSON DATA (EA)			LONGITUDINAL BARS (EA)		TRANSVERSE BARS (EA)
	DIAMETER "D" (FT)	LENGTH "L" (FT)	CONCRETE STRENGTH (PSI)	QUANTITY	SIZE	SIZE
36' Pole	3.5	11.0	3000	10	#8	#4



GENERAL NOTES:

1. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60 OR EQUAL.
2. FOUNDATION TO BE CAST AGAINST UNDISTURBED SOIL.
3. FOUNDATION TO BE POURED MONOLITHICALLY.
4. FOUNDATION DESIGN BASED ON WATER TABLE BEING BELOW THE BOTTOM OF THE PIER. IF WATER TABLE IS ENCOUNTERED AT TIME OF EXCAVATION, CONSULT VALMONT OR A GEOTECH ENGINEER.
5. SITE GRADE IS 7H TO 1V OR FLATTER.
6. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST ACI, LOCAL, AND STATE CODES.
7. ALL METHODS OF CONSTRUCTION AND INSTALLATION ARE THE RESPONSIBILITY OF THE CONTRACTOR.
8. DESIGN BASED ON STANDARD LOOSE SOIL PARAMETERS BASED ON IBC 2012 TABLE 1806.2
9. ANCHOR BOLT INFORMATION CAN BE FOUND IN VALMONT CALCULATIONS DATED 1/22/2021.

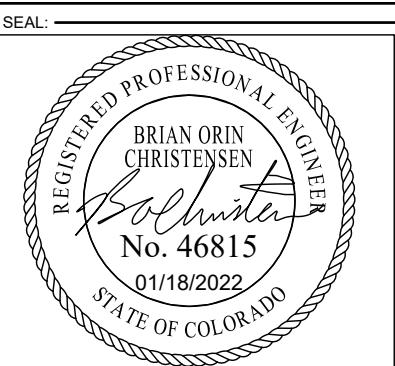
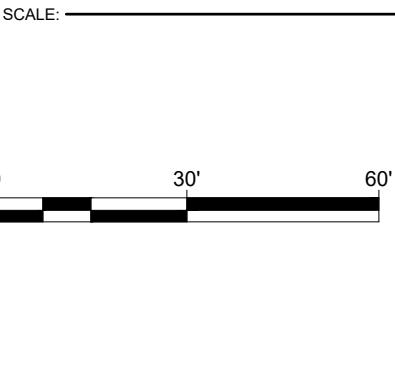
				SOLD TO: SHIP TO: P.O. #: AGENT:	JOB DENVER, CO	VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.	valmont Valley, NE 68064 (402) 359-2201	ORDER NUMBER: 500732-P2 PAGE NUMBER: 1 OF 1 DRAWING NUMBER REV 500732FDN
— IW7 12/21/20	IW7 12/21/20	—	—	REV DRAWN BY-DATE CHECK BY-DATE DESCRIPTION	TITLE FOUNDATION DESIGN			

Q:\120\19CO-1941-1909 Lyons to Estes Park\Project Data\Sheet_Files\Sheet Sets\EPB-0203.DETAILS - 3/09/2022 01:24pm, joe.benson

NO.	DATE:	DESCRIPTION:	BY:

ISSUE DATE:
JAN 18, 2022

SITE INFORMATION:
CROWN HWY-36
DAS INSTALLATION



SHEET TITLE:
SITE PLAN

SHEET NUMBER:
SP-01





EPB-02

SMALL CELL ANTENNA INSTALLATION

LYONS, CO
LAT: 40.230572° LONG: -105.277174°



EXISTING



PROPOSED

19Q19Q2019Q3019Q42019Q1CO-1941-1909 Crown HWY-36 Lyons to Estess Park|Project DataSheet_Files\Sheet Sets\EPB PHOTO SIM.dwg - EPB-025, EPB PHOTO SIM.dwg - FS-01 PHO TO SIMULATION - 3/09/2022 01:25pm, Joe Benson



The logo for Crown Castle, featuring a stylized 'CC' monogram in black and purple, followed by the company name 'CROWN CASTLE' in a bold, purple, sans-serif font.

PLANS PREPARED BY: **HORROCKS**
ENGINEERS
2162 West Grove Parkway, Suite 400
Pleasant Grove, UT 84062
(801) 763-5100

ISSUE DATE:
JAN 18, 2022

SITE INFORMATION: _____

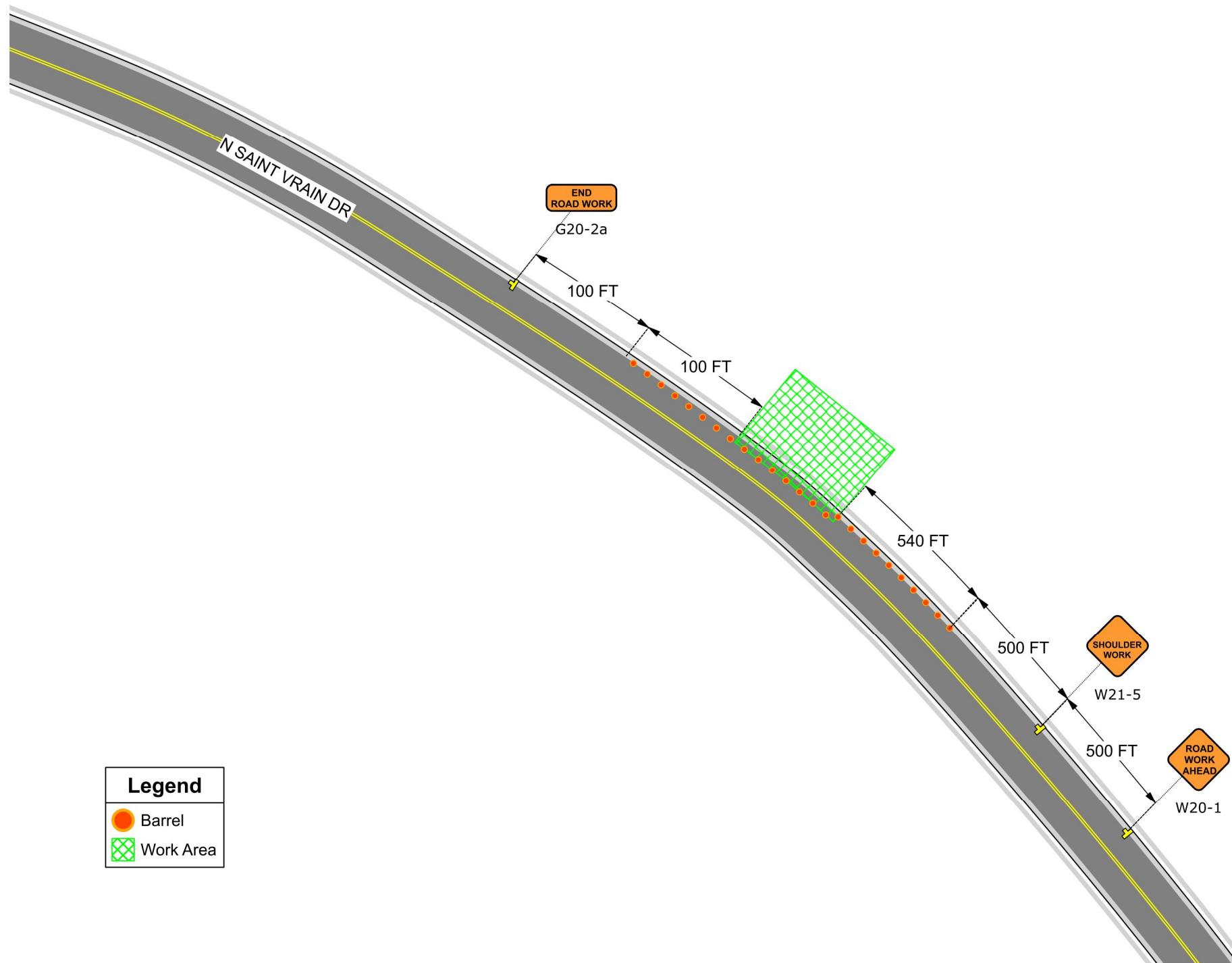
SCALE: _____

A circular registration stamp with a rope-like border. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF COLORADO" at the bottom. The inner circle contains "BRIAN ORIN CHRISTENSEN" at the top, a large signature in the center, "No. 46815" below the signature, and the date "01/18/2022" at the bottom.

SHEET TITLE: PHOTO SIMULATION

SHEET NUMBER: _____

LAT: 40.230554
LONG: -105.277195

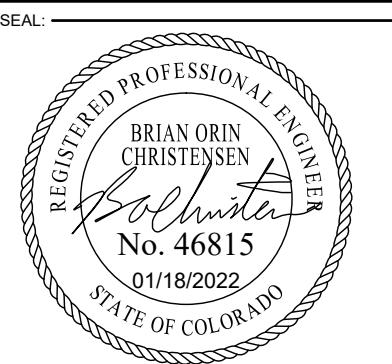


NO.	DATE:	DESCRIPTION:	BY:

ISSUE DATE:
JAN 18, 2022

SITE INFORMATION:
**CROWN HWY-36
DAS INSTALLATION**

SCALE: _____



SHEET TITLE:
TRAFFIC CONTROL

SHEET NUMBER:
TC-01